DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	421	742
		A7692 & B7692 - COMMON DETAILS - 68532				

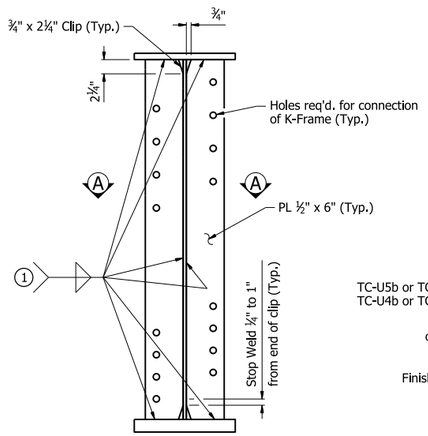
Notes:
All Structural Steel shall be ASTM A709, Grade 50W unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-GR50W)."

For location of A7692 stiffeners and connection plates, see Dwg. Nos. 68514 - 68516.

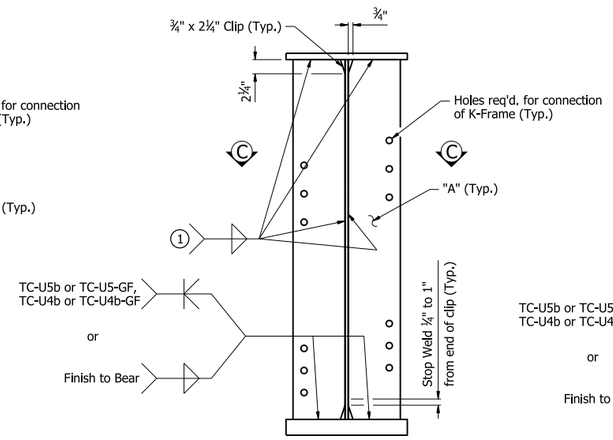
For location of B7692 stiffeners and connection plates, see Dwg. Nos. 68522 - 68524.

For details of K-Frames, see Dwg. Nos. 68530 & 68531.

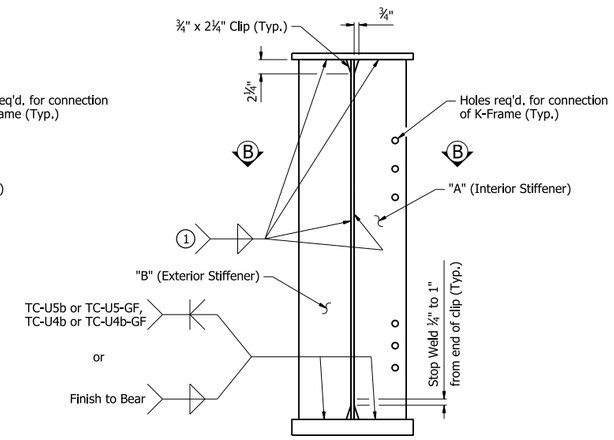
(1) See "WELD TABLE" for minimum weld sizes on Std. Dwg. No. 55007.



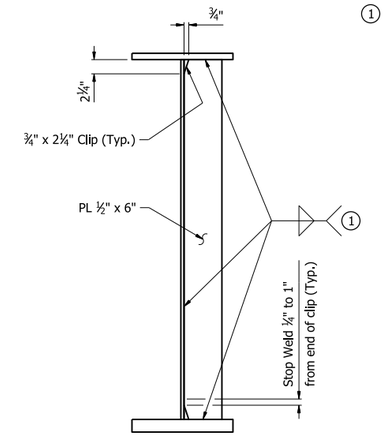
CONNECTION PLATES
(Located at K-Frame Types 1 and 2)
1" = 1'-0"



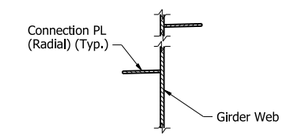
BEARING STIFFENERS AT INTERIOR GIRDERS
(Located at K-Frame Types 3-5)
1" = 1'-0"



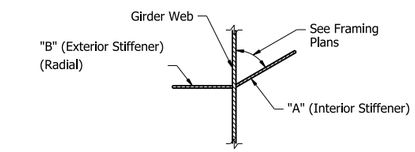
BEARING STIFFENERS AT EXTERIOR GIRDERS
(Located at K-Frame Types 3-5)
1" = 1'-0"



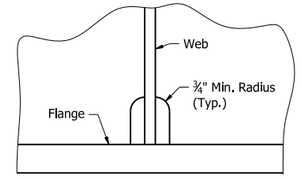
TRANSVERSE STIFFENER
1" = 1'-0"



SECTION A-A
1" = 1'-0"

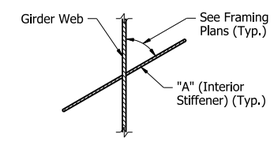


SECTION B-B
1" = 1'-0"



Height and width of clip shall be as noted in other details.

ALTERNATIVE CLIP DETAIL
No Scale
(For Bearing Stiffeners, Transverse Stiffeners, and Cross-frame Connection Plates)



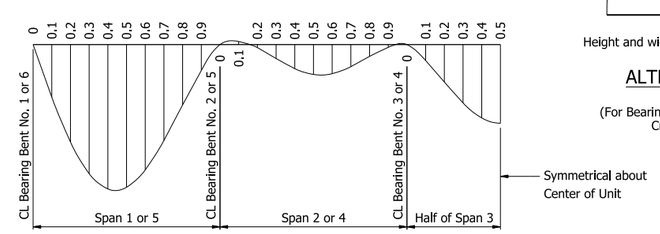
SECTION C-C
1" = 1'-0"

TABLE OF BEARING STIFFENERS

Bent No.	"A"	"B"
1 & 6	PL ¾" x 8⅛"	PL ¾" x 7⅝"
2 & 5	PL 1⅛" x 11⅜"	PL 1⅛" x 10⅝"
3 & 4	PL ¾" x 8¼"	PL ¾" x 7⅝"

TABLE OF DEAD LOAD DEFLECTIONS (INCHES)

Span	Point of Deflection	Structural Steel					Structural Steel + Slab					Structural Steel + Slab + Rail				
		Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5
Span 1 or Span 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1	0.268	0.274	0.277	0.277	0.277	1.015	1.051	1.067	1.065	1.052	1.149	1.125	1.124	1.139	1.189
	0.2	0.497	0.507	0.513	0.513	0.513	1.879	1.943	1.973	1.968	1.945	2.123	2.081	2.079	2.108	2.195
	0.3	0.659	0.672	0.680	0.680	0.680	2.487	2.570	2.609	2.603	2.575	2.806	2.755	2.753	2.791	2.902
	0.4	0.738	0.752	0.761	0.761	0.762	2.779	2.870	2.914	2.907	2.877	3.133	3.078	3.076	3.119	3.242
	0.5	0.730	0.744	0.752	0.753	0.753	2.740	2.827	2.871	2.864	2.835	3.089	3.033	3.032	3.076	3.195
	0.6	0.641	0.653	0.661	0.662	0.661	2.396	2.471	2.508	2.505	2.480	2.703	2.652	2.650	2.692	2.797
	0.7	0.491	0.500	0.505	0.507	0.506	1.824	1.879	1.905	1.905	1.887	2.060	2.016	2.015	2.049	2.131
	0.8	0.309	0.315	0.318	0.319	0.319	1.140	1.172	1.187	1.190	1.180	1.288	1.259	1.256	1.281	1.333
	0.9	0.134	0.136	0.137	0.138	0.138	0.487	0.499	0.502	0.508	0.505	0.550	0.536	0.533	0.548	0.570
Span 2 or Span 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1	-0.019	-0.017	-0.018	-0.019	-0.024	-0.053	-0.040	-0.040	-0.047	-0.069	-0.029	-0.045	-0.054	-0.054	-0.047
	0.2	0.012	0.017	0.018	0.014	0.005	0.092	0.126	0.132	0.114	0.065	0.166	0.131	0.115	0.116	0.136
	0.3	0.066	0.074	0.076	0.070	0.056	0.323	0.380	0.393	0.363	0.290	0.453	0.400	0.378	0.380	0.417
	0.4	0.118	0.129	0.131	0.123	0.107	0.540	0.614	0.633	0.595	0.504	0.714	0.649	0.623	0.627	0.675
	0.5	0.148	0.159	0.162	0.153	0.137	0.659	0.741	0.761	0.720	0.625	0.853	0.783	0.755	0.760	0.816
	0.6	0.145	0.156	0.158	0.150	0.135	0.639	0.716	0.734	0.696	0.607	0.823	0.756	0.730	0.736	0.789
	0.7	0.110	0.119	0.120	0.115	0.103	0.487	0.547	0.560	0.531	0.461	0.634	0.577	0.555	0.560	0.606
	0.8	0.059	0.064	0.065	0.061	0.053	0.263	0.300	0.306	0.289	0.243	0.355	0.315	0.300	0.304	0.334
	0.9	0.014	0.016	0.015	0.014	0.011	0.065	0.079	0.078	0.073	0.054	0.101	0.082	0.072	0.076	0.089
Half of Span 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1	0.079	0.081	0.082	0.082	0.081	0.313	0.329	0.333	0.334	0.324	0.366	0.349	0.345	0.354	0.379
	0.2	0.186	0.192	0.194	0.194	0.191	0.746	0.788	0.802	0.797	0.770	0.871	0.836	0.828	0.846	0.898
	0.3	0.290	0.300	0.304	0.303	0.298	1.173	1.241	1.266	1.254	1.209	1.368	1.317	1.306	1.331	1.408
	0.4	0.365	0.378	0.384	0.381	0.375	1.480	1.566	1.599	1.581	1.524	1.722	1.663	1.651	1.679	1.772
	0.5	0.392	0.406	0.412	0.410	0.403	1.591	1.684	1.720	1.700	1.639	1.852	1.788	1.776	1.806	1.904



DEAD LOAD DEFLECTION DIAGRAM

Notes:
Camber for dead load deflection +/- ¼" tolerance. Deflections shown are along CL Girder from plane perpendicular to the web extending from CL Bearing to CL Bearing. Negative sign (-) indicates point above plane. Vertical curve corrections are not included. Superelevation transition corrections not included.

Tabulated values shown require an adjustment for cross-slope to girders to achieve proper camber.

The additional weight for the permanent steel deck forms are included in the slab dead load deflections. Revisions to the deflection tables may be necessary upon review of the Contractor's submitted forming details.

STATE OF ARKANSAS
Allie Wagner
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 4 of 4
COMMON DETAILS OF CONTINUOUS
PLATE GIRDER UNITS
I-49 OVER FROG BAYOU
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

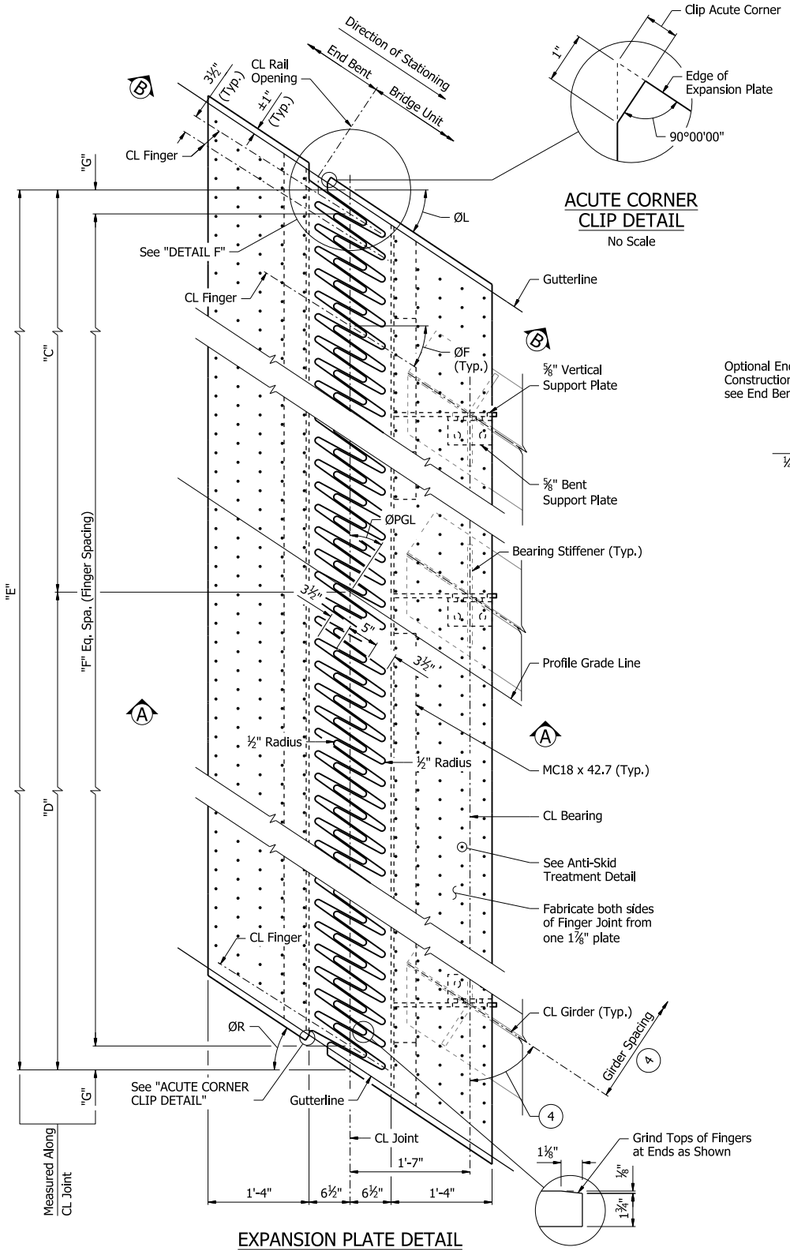
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KNK DATE: 7/19/24
CHECKED BY: CZ DATE: 7/25/24
DESIGNED BY: KBJ DATE: 2/26/24
FILENAME: b040904m7_sc4.dgn
SCALE: AS NOTED

BRIDGE NO. A7692 & B7692 DRAWING NO. 68532

PRINT DATE: 4/10/2026

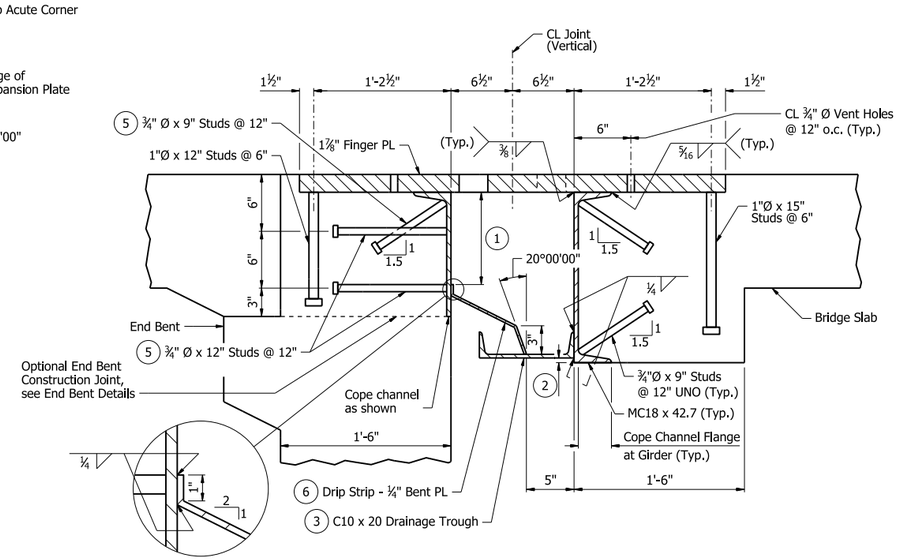
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	422	742
		A7692 & B7692 - FINGER JOINTS - 68533				



EXPANSION PLATE DETAIL

(End Bent No. 1 shown, End Bent No. 6 similar UNO)
1" = 1'-0"

Note:
For Bearing Stiffener details, see Dwg. No. 68532



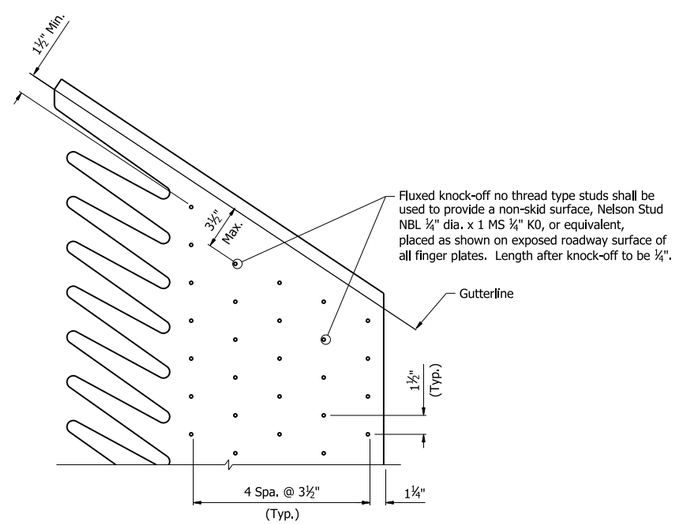
ACUTE CORNER CLIP DETAIL

No Scale

SECTION A-A

1½" = 1'-0"

Note:
For stud placement, see "TYPICAL ROADWAY SECTION THRU FINGER JOINT AT BENT NOS. 1 & 6" on Dwg. Nos. 68513 or 68521.



ANTI-SKID TREATMENT DETAIL

No Scale

Notes:
All structural steel, except the rail slider plates, shall be ASTM A709, Gr. 50W. Rail plates shall be ASTM A709, Gr. 36 and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)". The surfaces of the rail slider plates which will not be in contact with the concrete shall be cleaned and painted in accordance with Section 638, or as directed by the Engineer. Only one coat is required and shall be applied in the fabricator's shop. Painting shall not be paid for directly, but will be considered subsidiary to "Structural Steel in Plate Girder Spans (M270-Gr50W)".

All studs shall be granular flux filled, solid fluxed, or equal, and automatically end welded to the Plates or channels in accordance with recommendations of the manufacturer.

The temperature used to set the joint opening shall be the approximate average air temperature during the preceding 24 hour period immediately before the bolts are tightened. The Engineer shall establish the temperature. Interpolation of the table may be necessary. Installation is limited to 40 degrees F min. and 80 degrees F max.

The finger joint shall be set and adjusted for grade before closure pours are made.

All dimensions are given in the horizontal plane and shall be adjusted for cross slope and profile. The expansion device shall be fabricated and installed to the grade of the roadway.

Dimensions shown are at 60° F for all details, UNO.

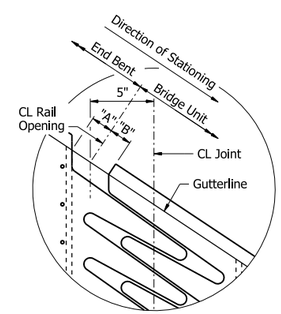
Concrete shall be hand packed under the joint armor.

All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the joint.

Maximum Joint total movement = $3\frac{1}{16}$".

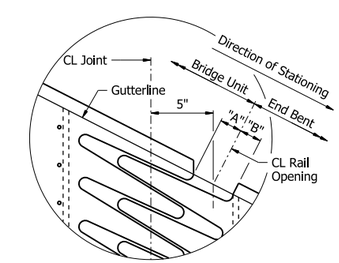
For "SECTION B-B", see Dwg. No. 68534.

1. Varies - 2" @ High Side Gutterline to 9¾" @ Low Side Gutterline.
2. Varies - 8¼" @ High Side Gutterline to ½" @ Low Side Gutterline.
3. Install drainage trough on Bridge Unit side.
4. See Framing Plans for Girder spacing and angles.
5. Studs shall be Normal to CL Joint, except the Studs closest to the acute corner edge may run parallel to the edge of the finger joint plate.
6. Clip ends of Drip Strip to match the Gutterline.



END BENT NO. 1

(Left side shown, Right side similar)
2" = 1'-0"



END BENT NO. 6

(Left side shown, Right side similar)
2" = 1'-0"

DETAIL F

(Expansion Plate Rail Opening Detail)

TABLE OF FINGER JOINT DATA

Bridge No.	End Bent No.	"A" Width (in) Parallel with CL Fingers at 24 Hour Average Temperature of:			"B" Width (in) Parallel with CL Fingers at 24 Hour Average Temperature of:			"C"	"D"	"E"	Skews				"F" Finger Spa.	"G"
		40° F	60° F	80° F	40° F	60° F	80° F				ØPGL	ØL	ØR	ØF		
A7692	1	1¾"	1¾"	1¾"	2¼"	1¾"	1¼"	40'-11¼"	7'-3⅝"	48'-2⅞"	33°30'52"	33°36'23"	33°36'23"	32°16'53"	138	3 1/16"
	6	2¼"	1¾"	1¼"	1¾"	1¾"	1¾"	38'-3¼"	6'-10"	45'-1¼"	26°57'12"	27°01'32"	27°01'32"	28°21'00"	134	4 3/16"
B7692	1	1¾"	1¾"	1¾"	2¼"	1¾"	1¼"	7'-3⅛"	40'-7⅛"	47'-10¼"	32°59'24"	32°54'00"	32°54'00"	31°36'27"	138	3 9/16"
	6	2¼"	1¾"	1¼"	1¾"	1¾"	1¾"	6'-9⅝"	38'-1"	44'-10⅝"	26°33'00"	26°30'00"	26°30'00"	27°46'26"	134	4¼"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF FINGER JOINTS
I-49 OVER FROG BAYOU
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

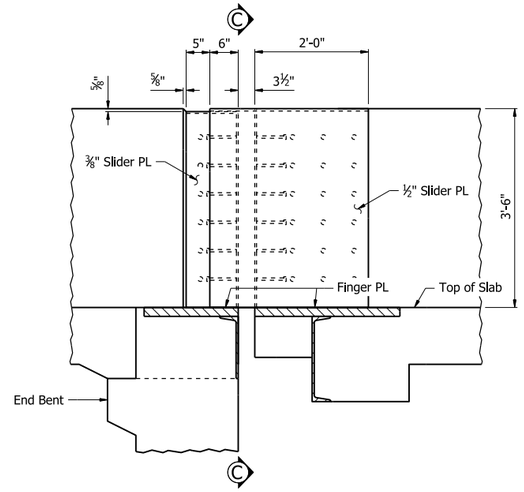
LITTLE ROCK, ARK.

DRAWN BY: KNK DATE: 9/10/24
CHECKED BY: RLW DATE: 9/16/24
DESIGNED BY: RLW DATE: 4/25/24
FILENAME: b040904m7_fj1.dgn
SCALE: AS NOTED

BRIDGE NO. A7692 & B7692 DRAWING NO. 68533

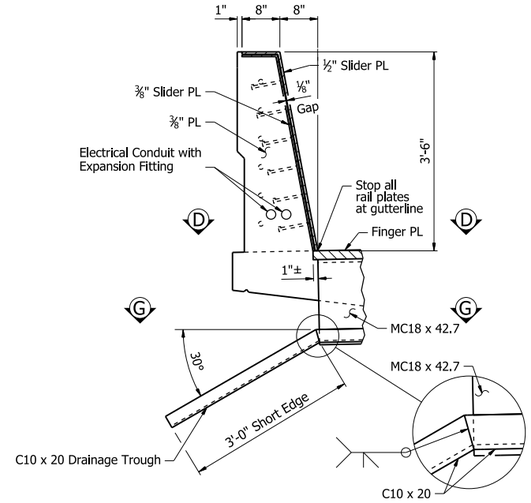
PRINT DATE: 4/2/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	423	742
		A7692 & B7692 - FINGER JOINTS - 68534				



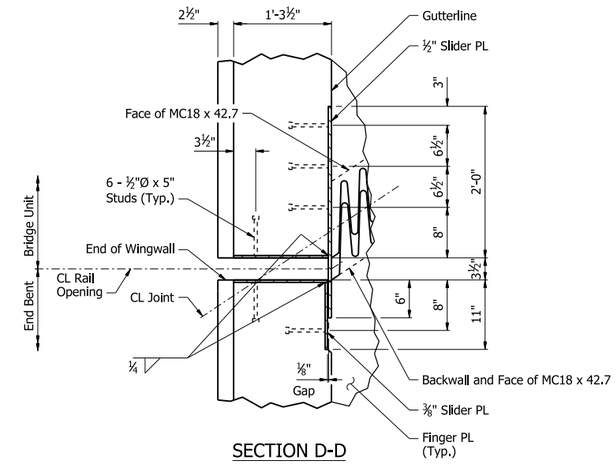
SECTION B-B

¾" = 1'-0"



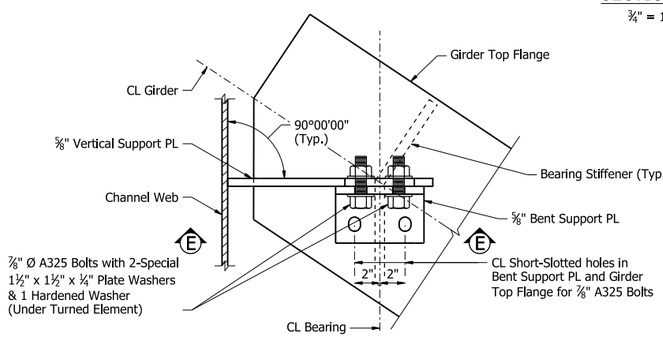
SECTION C-C

¾" = 1'-0"



SECTION D-D

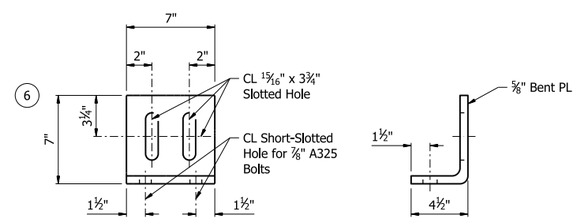
1" = 1'-0"



PLAN OF CONNECTION TO GIRDER

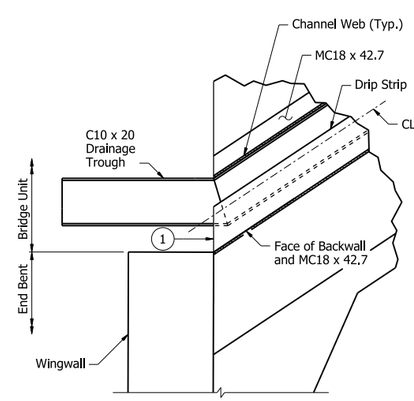
(Exterior Girder shown, others similar)
No Scale

Note: For Bearing Stiffener details, see Dwg. No. 68532



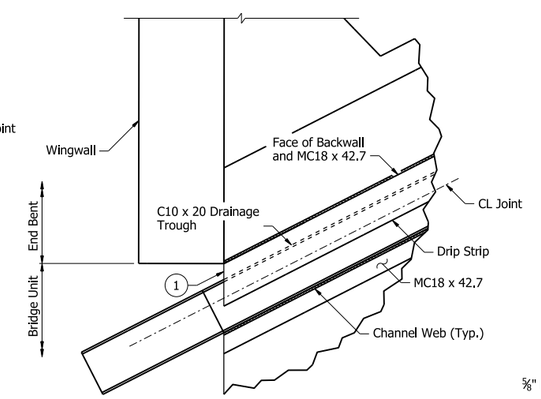
BENT SUPPORT PLATE

2" = 1'-0"



END BENT NO. 1

¾" = 1'-0"

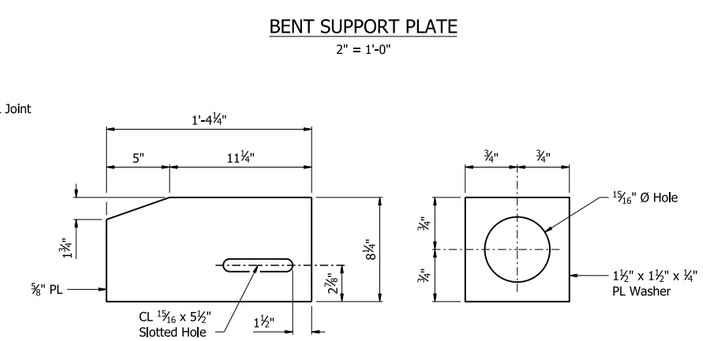


END BENT NO. 6

¾" = 1'-0"

SECTION G-G

(1) Clip ends of Drip Strip to match Gutterline

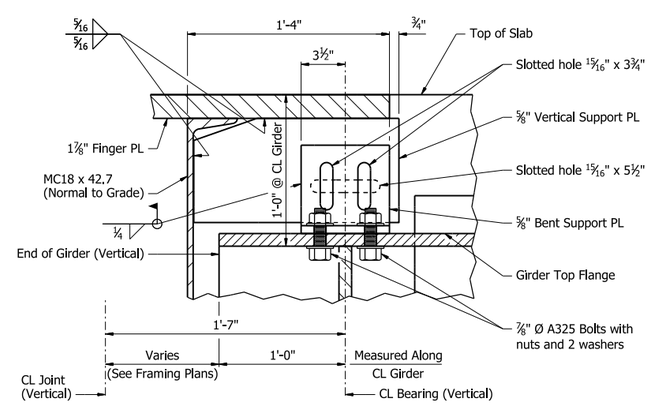


VERTICAL SUPPORT PLATE

2" = 1'-0"

PLATE WASHER DETAIL

No Scale



SECTION E-E

3" = 1'-0"

Note: Longitudinal dimensions are horizontal and measured normal to CL Joint, UNO

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES

Brent T. Jones

5/4/26

BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF FINGER JOINTS
I-49 OVER FROG BAYOU
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

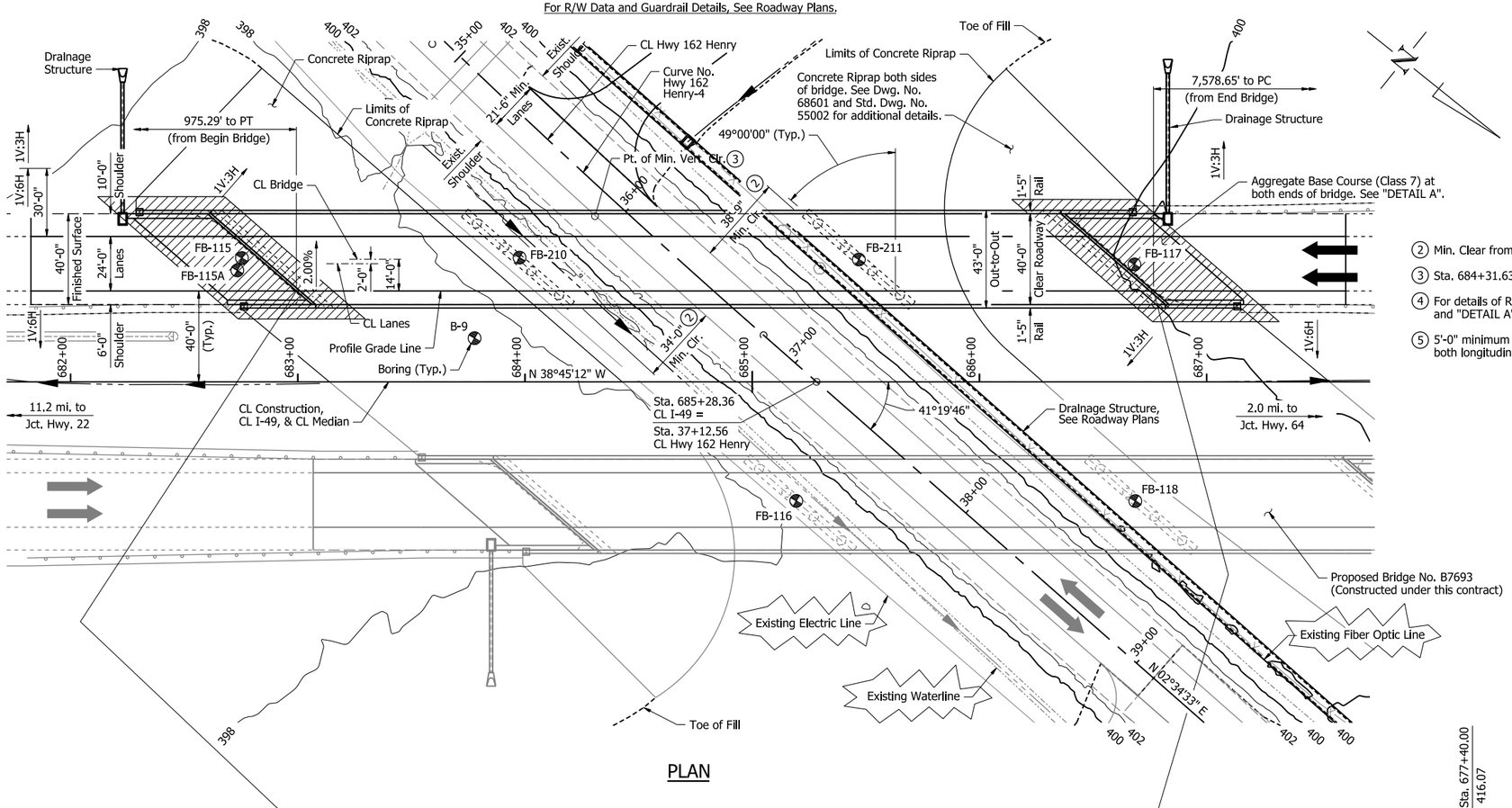
DRAWN BY:	KNK	DATE:	9/10/24	FILENAME:	b040904m7_fj2.dgn
CHECKED BY:	RLW	DATE:	9/16/24	SCALE:	AS NOTED
DESIGNED BY:	RLW	DATE:	4/25/24		

BRIDGE NO. A7692 & B7692 DRAWING NO. 68534

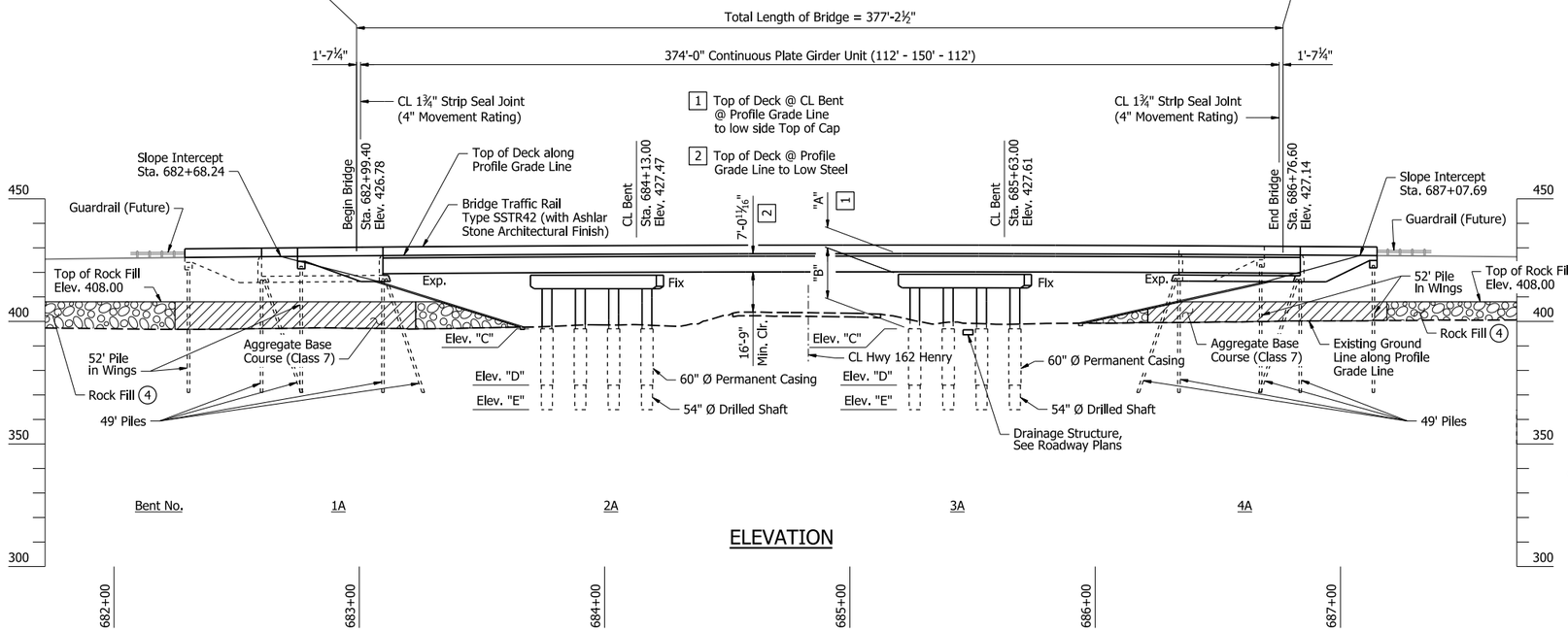
PRINT DATE: 4/1/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	424	742
		A7693 - BRIDGE LAYOUTS - 68535				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN



ELEVATION

PRINT DATE: 4/23/2026

HORIZONTAL CURVE DATA-CURVE NO. HWY 162 HENRY-4

PI = 34+87.56
△ = 5°16'35" Lt.
D = 1°21'35"
T = 194.15'
L = 388.02'
R = 4213.50'
PC = 32+93.42
PT = 36+81.44

Notes:
Use Type F Approach Gutters & Type F Approach Slabs (width, "W" = 36'-0") at both ends of bridge. Adjust gutter length as necessary when drop inlet is present.

For General Notes, see Dwg. No. 68476.

DETAIL DRAWINGS:	DRAWING NO(S).
End Bents	68538-68542
Intermediate Bents	68543-68545
Elastomeric Bearings	68599 & 68600
374' Continuous Plate Girder Unit	68546 & 68548
General Notes for Steel Bridge Structures	68476 & 55006
Details for Steel Bridge Structures	55007
Strip Seal Joints	55009
Steel H-Piling	55020

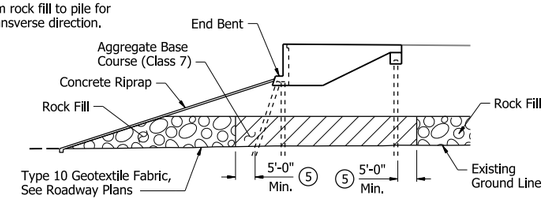
For Layout of Bridge B7693, see Dwg. No. 68536.

2 Min. Clear from edge of lane to capbeam.

3 Sta. 684+31.63, Offset 72.50' Lt.

4 For details of Rock Fill, see Roadway Plans and "DETAIL A".

5 5'-0" minimum clear from rock fill to pile for both longitudinal and transverse direction.



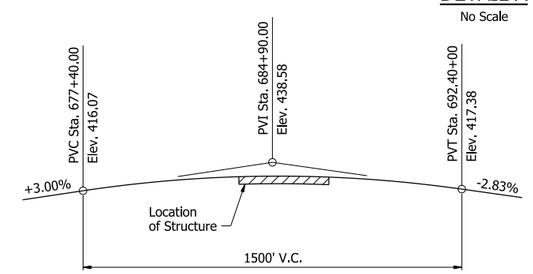
Where rock fill is used for embankment construction, aggregate base course (Class 7), in accordance with Section 303.02, shall be placed as shown in areas where piling will be located. Aggregate base course (Class 7) shall be paid for as "Rock Fill".

At the Contractor's option, preboring or other methods as approved by the Engineer may be used to facilitate pile installation thru the aggregate base course (Class 7) material at these locations. Preboring or other methods used for installation of piles where rock fill is used for embankment construction will not be paid for separately, but shall be included in item "Steel Piling".

Limits of rock fill for Bridge Nos. A7693 and B7693 shall begin at toe of end slopes to CL I-49 Stations 681+10 and 689+60 for End Bent Nos. 1 & 4, respectively.

DETAIL A

No Scale



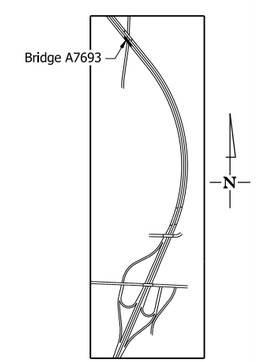
VERTICAL ALIGNMENT DATA

(Stations are along CL I-49)
(Elevations are along Profile Grade Line)

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 2	8'-1⅛"	22'-4⅜"	397.00	374.00	364.00
Bent No. 3	7'-10¼"	22'-9⅛"	397.00	374.00	364.00

Note:
Elevations shown are actual top of deck elevations at Profile Grade Line. Any vertical dimension referenced to Profile Grade Line is based on Actual top of deck elevation at Profile Grade Line. Stations shown are along CL I-49.



SITE PLAN

No Scale

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 2
LAYOUT OF BRIDGES
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

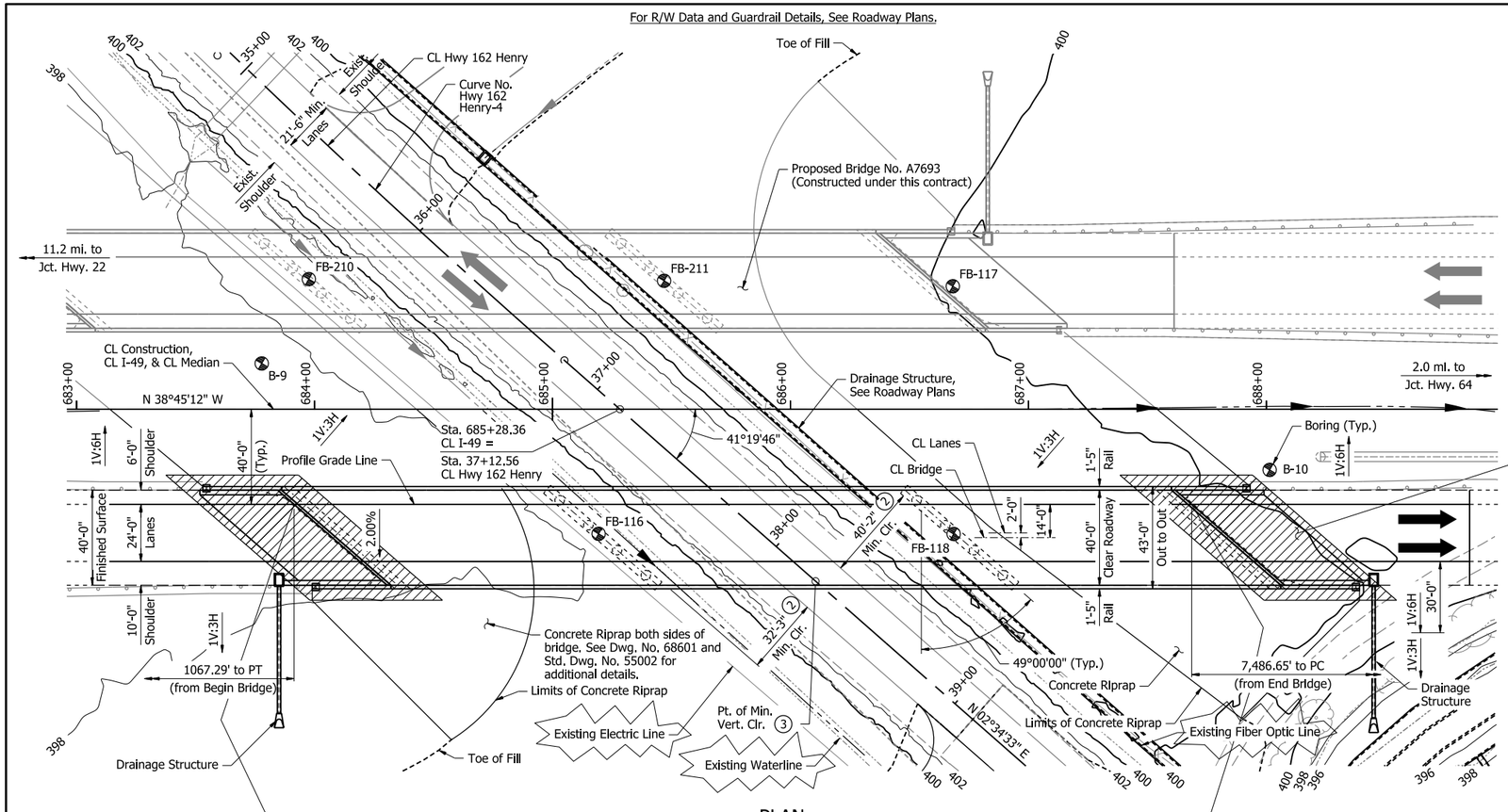
LITTLE ROCK, ARK.

DRAWN BY: BNG	DATE: 8/2/22	FILENAME: b040904a8_I1.dgn	
CHECKED BY: BTJ	DATE: 9/22/24	SCALE: 1" = 30'-0"	
DESIGNED BY: BTJ	DATE: 6/1/22		

BRIDGE NO. A7693 DRAWING NO. 68535

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	425	742
		B7693 - BRIDGE LAYOUTS - 68536				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

Notes:
Use Type F Approach Gutters & Type F Approach Slabs (width, "W" = 36'-0") at both ends of bridge. Adjust gutter length as necessary when drop inlet is present.

For General Notes, see Dwg. No. 68476.

DETAIL DRAWINGS:	DRAWING NO(S).
End Bents	68538-68542
Intermediate Bents	68543-68545
Elastomeric Bearings	68599 & 68600
374' Continuous Plate Girder Unit	68549 & 68551
General Notes for Steel Bridge Structures	68476 & 55006
Details for Steel Bridge Structures	55007
Strip Seal Joints	55009
Steel H-Piling	55020

For Layout of Bridge A7693, see Dwg. No. 68535.

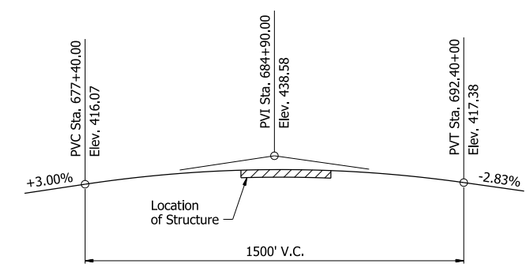
4 For details of Rock Fill, see Roadway Plans and "DETAIL A" on Dwg. No. 68535

HORIZONTAL CURVE DATA-CURVE NO. HWY 162 HENRY-4

PI = 34+87.56
Δ = 5°16'35" Lt.
D = 1°21'35"
T = 194.15'
L = 388.02'
R = 4213.50'
PC = 32+93.42
PT = 36+81.44

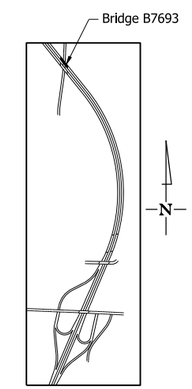
2 Min. Clear from edge of lane to capbeam.

3 Sta. 686+10.80 Offset 72.50' Rt.



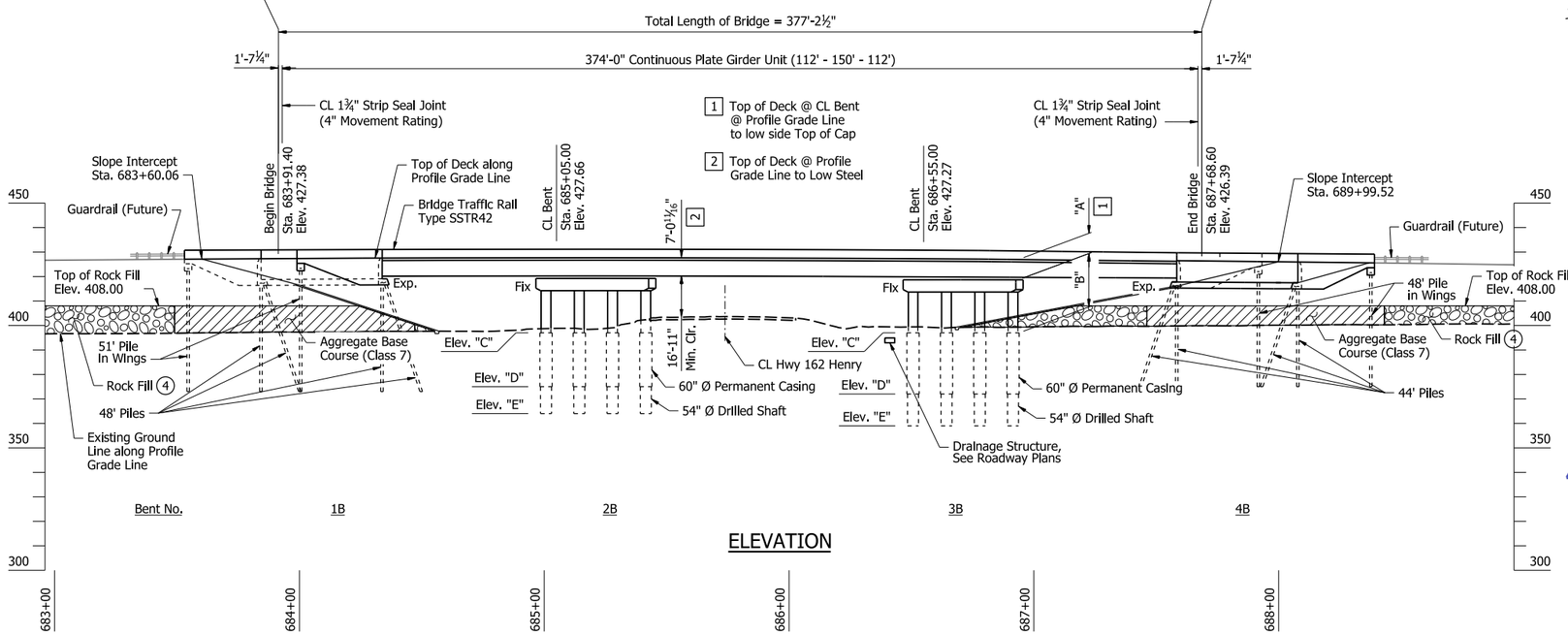
VERTICAL ALIGNMENT DATA

(Stations are along CL I-49)
(Elevations are along Profile Grade Line)



SITE PLAN

No Scale



ELEVATION

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"C"	"C"
Bent No. 2	7'-11⅛"	22'-8¾"	397.00	375.00	364.00
Bent No. 3	8'-2"	22'-1⅛"	397.00	372.00	359.00

Note:
Elevations shown are actual top of deck elevations at Profile Grade Line. Any vertical dimension referenced to Profile Grade Line is based on Actual top of deck elevation at Profile Grade Line. Stations shown are along CL I-49.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 2
LAYOUT OF BRIDGES
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

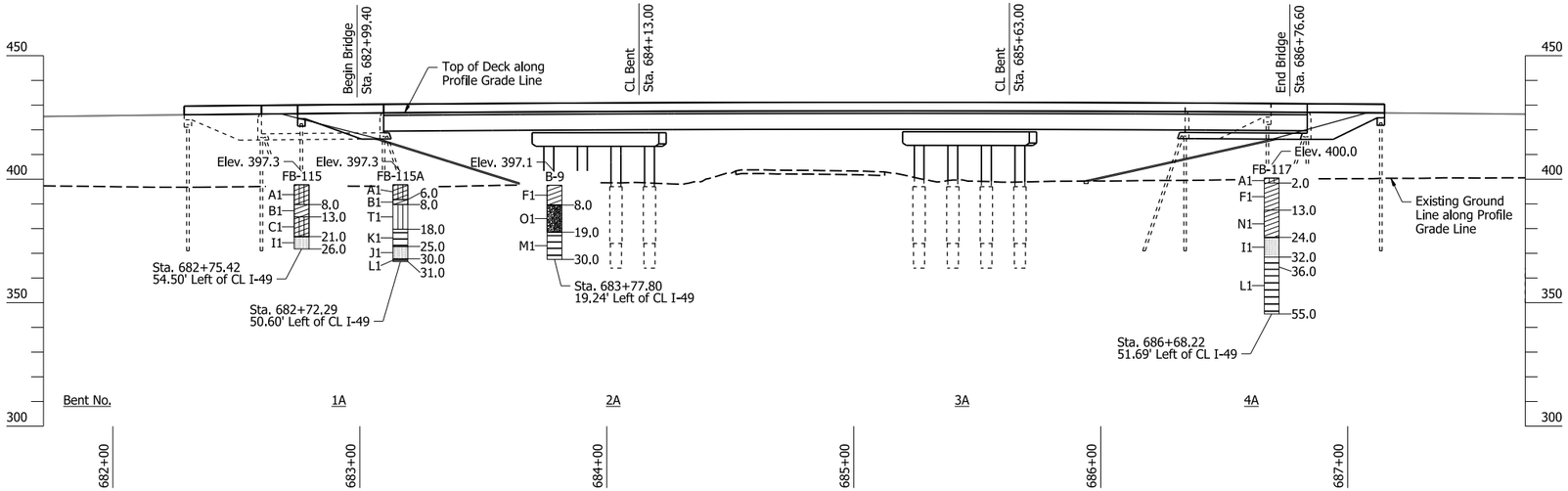
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: BNG DATE: 8/2/22
CHECKED BY: BTJ DATE: 9/22/24
DESIGNED BY: BTJ DATE: 6/17/22
FILENAME: b040904b8_I1.dgn
SCALE: 1" = 30'-0"

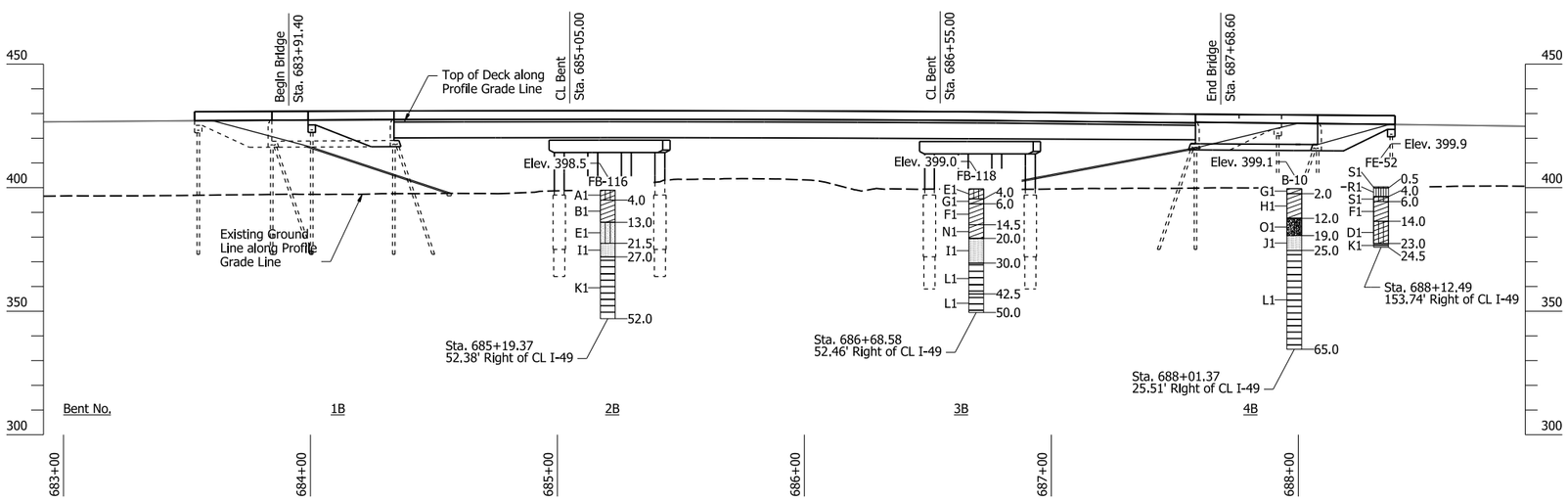
BRIDGE NO. B7693 DRAWING NO. 68536

PRINT DATE: 4/23/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	426	742
		A7693 & B7693 - BRIDGE LAYOUTS - 68537				



ELEVATION OF SOIL BORINGS AT BRIDGE A7693



ELEVATION OF SOIL BORINGS AT BRIDGE B7693

"N" VALUES

B-9 - Sta. 683+77.80, 19.24' Left of CL I-49

0.5-1.5	N=12
2.5-3.5	N=11
6.5-7.5	N=8
9.0-10.0	N=24
14.0-15.0	N=33
19.0-20.0	N=50/4"

B-10 - Sta. 688+01.37, 25.51' Right of CL I-49

0.5-1.5	N=11
4.5-5.5	N=10
6.5-7.5	N=10
14.0-15.0	N=14

FB-115 - Sta. 682+75.42, 54.50' Left of CL I-49

0.5-1.5	N=9
2.5-3.5	N=5
4.5-5.5	N=6
6.5-7.5	N=8
9.0-10.0	N=11
14.0-15.0	N=26
19.0-20.0	N=22

FB-115A - Sta. 682+72.29, 50.60' Left of CL I-49

0.5-1.5	N=10
2.5-3.5	N=7
4.5-5.5	N=6
9.0-10.0	N=8
14.0-15.0	N=18
19.0-19.5	N=50/4"

FB-116 - Sta. 685+19.37, 52.38' Right of CL I-49

0.5-1.5	N=6
2.5-3.5	N=5
4.5-5.5	N=4
6.5-7.5	N=9
9.0-10.0	N=5
14.0-15.0	N=21
19.0-20.0	N=25
21.5-22.0	N=50/4"

FB-117 - Sta. 686+68.22, 51.69' Left of CL I-49

0.5-1.5	N=7
2.5-3.5	N=7
4.5-5.5	N=4
6.5-7.5	N=14
9.0-10.0	N=8
14.0-15.0	N=31
19.0-20.0	N=33

FB-118 - Sta. 686+68.58, 52.46' Right of CL I-49

0.5-1.5	N=4
2.5-3.5	N=5
4.5-5.5	N=10
6.5-7.5	N=6
9.0-10.0	N=17
14.0-15.0	N=24

FE-52 - Sta. 688+12.49, 153.74' Right of CL I-49

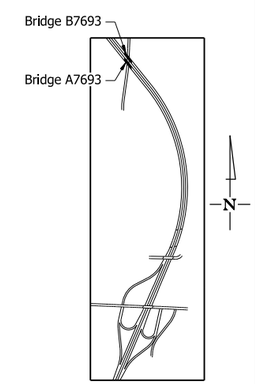
0.5-1.5	N=42
2.5-3.5	N=10
4.5-5.5	N=6
6.5-7.5	N=9
9.0-10.0	N=14
14.0-15.0	N=13
19.0-20.0	N=23
24.0-25.0	N=50/4"

BORING LEGEND

A1	CL-ML-Firm brown clayey silt
B1	CL-Soft reddish brown and tan silty clay with some ferrous nodules and stains
C1	ML-Very stiff reddish brown and tan clayey silt w/sandstone fragments and ferrous stains
D1	CL-ML-Medium dense grayish brown clayey silt w/some weathered sandstone fragments
E1	CL-ML-Very soft brown clayey silt
F1	CL-Firm reddish brown and brown fine sandy clay
G1	CL-Stiff reddish brown w/tan silty clay, slightly sandy
H1	CL-Very stiff grayish tan silty clay, slightly sandy w/ferrous stains and nodules
I1	SANDSTONE-Low hardness to moderately hard gray fine-grained sandstone w/interbedded very close to close dark gray shale partings, horizontal bedding
J1	SANDSTONE-Moderately hard light gray fine-grained sandstone w/very close shale laminations and seams
K1	SHALE-Low hardness to moderately hard dark gray weathered shale
L1	SHALE-Moderately hard gray shale, flat bedded w/very close sandstone seams and layers
M1	SHALE-Moderately hard dark gray slightly weathered shale
N1	SC-Dense tan and brown clayey fine sand w/weathered sandstone fragments
O1	GP-GM-Medium dense reddish brown sandy fine to coarse gravel, slightly silty
P1	SM-Medium dense reddish tan silty fine sand w/sandstone fragments
Q1	GM-Dense brown and tan silty fine to coarse/crushed stone base (fill)
R1	ML-Dense brown fine sandy silty w/numerous crushed stone fragments (fill)
S1	SC-SM-Soft brown and tan silty fine to medium sand, clayey w/some ferrous nodules and stains
T1	ML-Very stiff reddish brown and tan clayey silt w/sandstone fragments and ferrous stains

Note:
Soil descriptions have been condensed for the purposes of this drawing.

Detailed soil information for individual borings can be found in the Final Geotechnical Report that is available upon request.



SITE PLAN
No Scale

SHEET 1 OF 1
ELEVATION OF SOIL BORINGS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
MICHAEL J. L. DESTIGTER
No. 21612
5/4/26
BRIDGE ENGINEER

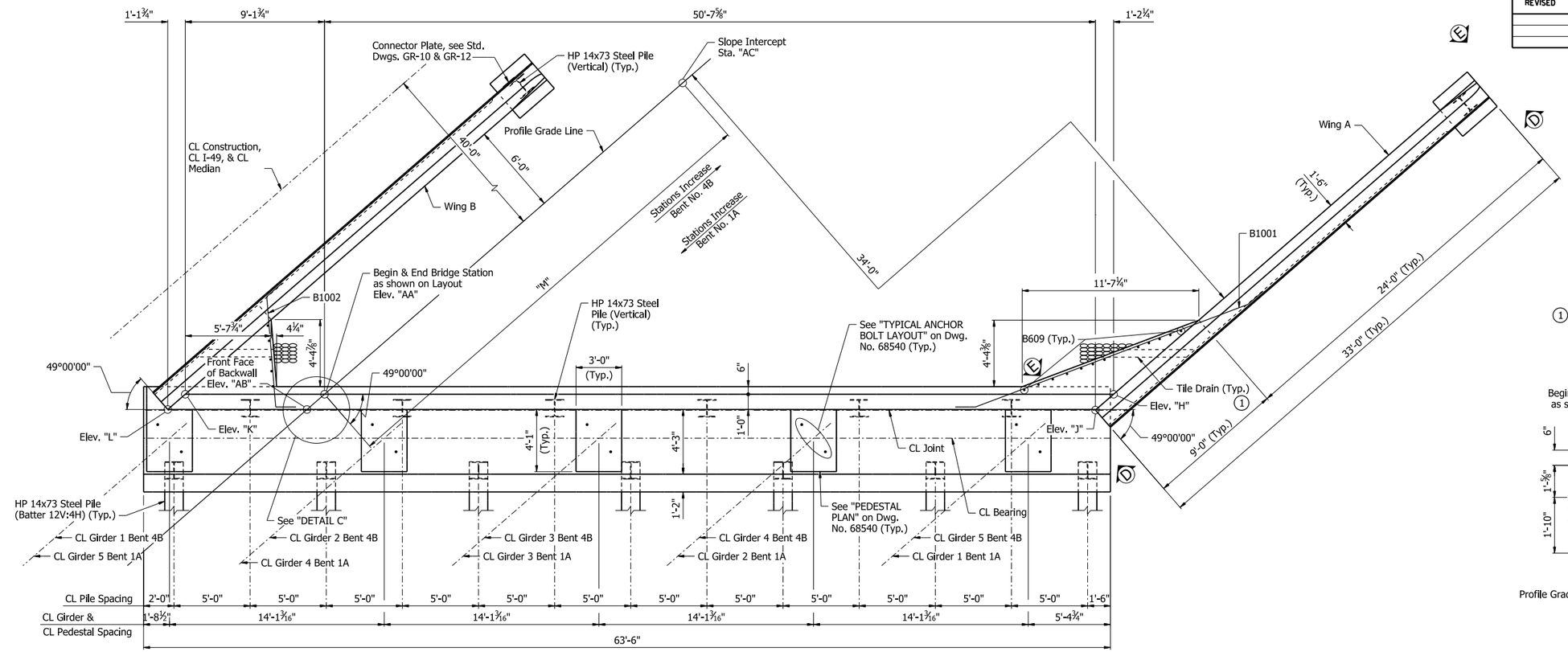
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JMM DATE: 9/13/24
CHECKED BY: ZTB DATE: 9/23/24
DESIGNED BY: MJD DATE: 9/11/24
FILENAME: b040904m8_J1.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. A7693 & B7693 DRAWING NO. 68537

PRINT DATE: 3/31/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	427	742
		A7693 & B7693 - END BENTS - 68538				



PLAN - BENT NO. 1A & 4B

Notes:
For General Notes, see Dwg. No. 68476.

All piling shall be HP14x73 (AASHTO M 270, Gr. 50). See Std. Dwg. No. 55020 for additional details.

For "SECTION A-A", see Dwg. No. 68540.

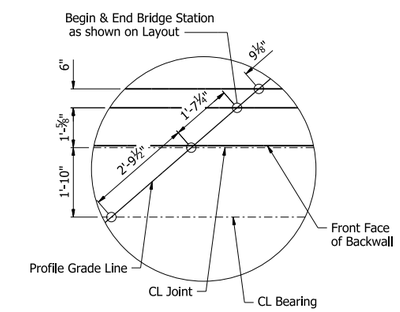
For "VIEW D-D", "VIEW E-E", "SECTION F-F", & VIEW G-G", see Dwg. No. 68541.

Structural Steel in end bents shall be ASTM A709, Gr. 50 unless noted otherwise, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50)".

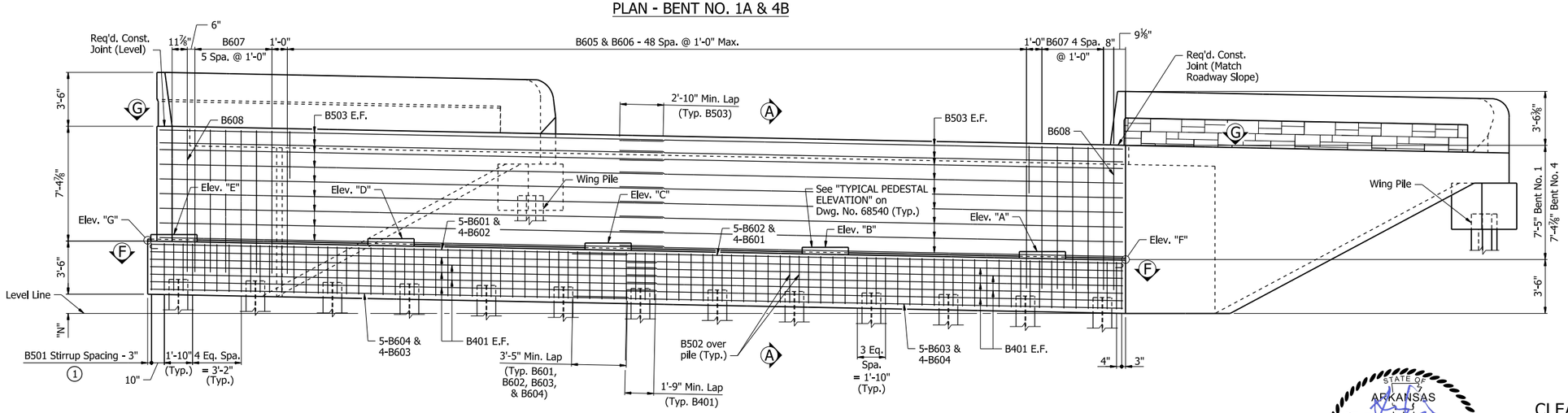
Top of backwall surface finish shall match that used on the bridge deck.

Class 2 Protective Surface Treatment shall be applied to the roadway face and top of the wing rails, and the top of the backwall.

(1) Place 6" Ø tile drains approx. 6" above fill slope. Spread bars as required. Place 6 cu. ft. of sacked ¾" crushed rock or gravel at each drain. All work and materials to install drains shall be subsidiary to "Class S Concrete".



DETAIL C
No Scale



ELEVATION - BENT NO. 1A & 4B
Looking Backstation Bent No. 1A and Looking Upstation Bent No. 4B

(1) Contractor shall adjust B501 & B502 bar spacing to accommodate anchor bolts or sheet metal sleeves. B501 & B502 bars may be shifted up to one bar space or bundled with a neighboring stirrup. In no case shall the space between neighboring sets of stirrups exceed twice the detailed spacing.

TABLE OF VARIABLES

Bent No.	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"AA"	"AB"	"AC"
1A	418.83	419.11	419.39	419.67	419.94	418.31	419.56	425.74	425.76	426.95	426.97	31'-2"	1'-3"	426.78	426.79	682+68.24
4B	418.38	418.68	418.98	419.27	419.56	417.86	419.18	425.29	425.30	426.57	426.59	30'-11"	1'-3⅞"	426.39	426.40	687+99.52

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
★★★
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 5
DETAILS OF END BENTS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

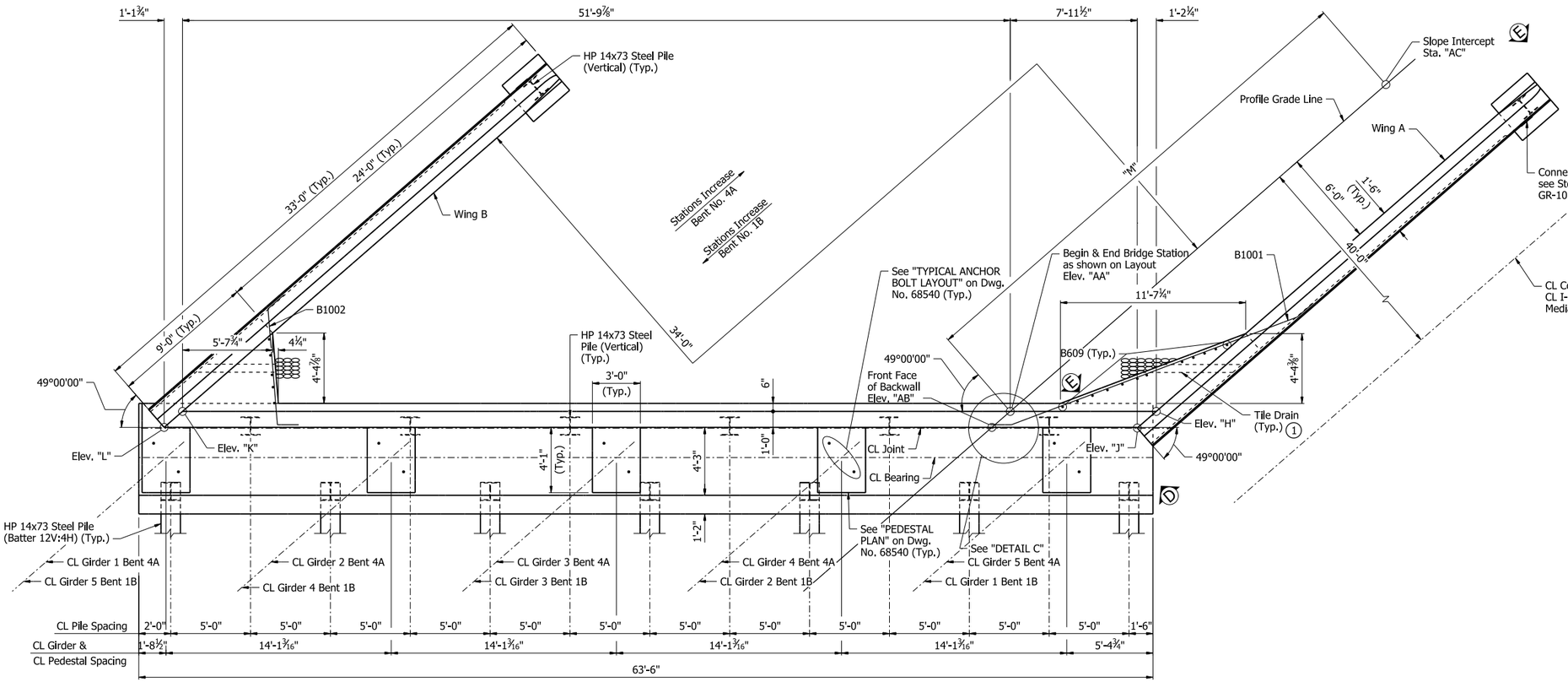
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JVS DATE: 7/16/24
CHECKED BY: QL DATE: 8/30/24
DESIGNED BY: QL DATE: 7/1/24
FILENAME: b040904m8_b11.dgn
SCALE: ¼" = 1'-0"

BRIDGE NO. A7693 & B7693 DRAWING NO. 68538

PRINT DATE: 4/8/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	428	742
		A7693 & B7693 - END BENTS - 68539				



PLAN - BENT NO. 4A & 1B

Notes:
For General Notes, see Dwg. No. 68476.

All piling shall be HP14x73 (AASHTO M 270, Gr 50). See Std. Dwg. No. 55020 for additional details.

For "SECTION A-A", see Dwg. No. 68540.

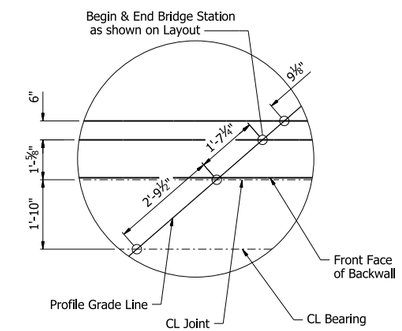
For "VIEW D-D", "VIEW E-E", "SECTION F-F", & VIEW G-G", see Dwg. No. 68541.

Structural Steel in end bents shall be ASTM A709, Gr. 50 unless noted otherwise, ans shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50)".

Top of backwall surface finish shall match that used on the bridge deck.

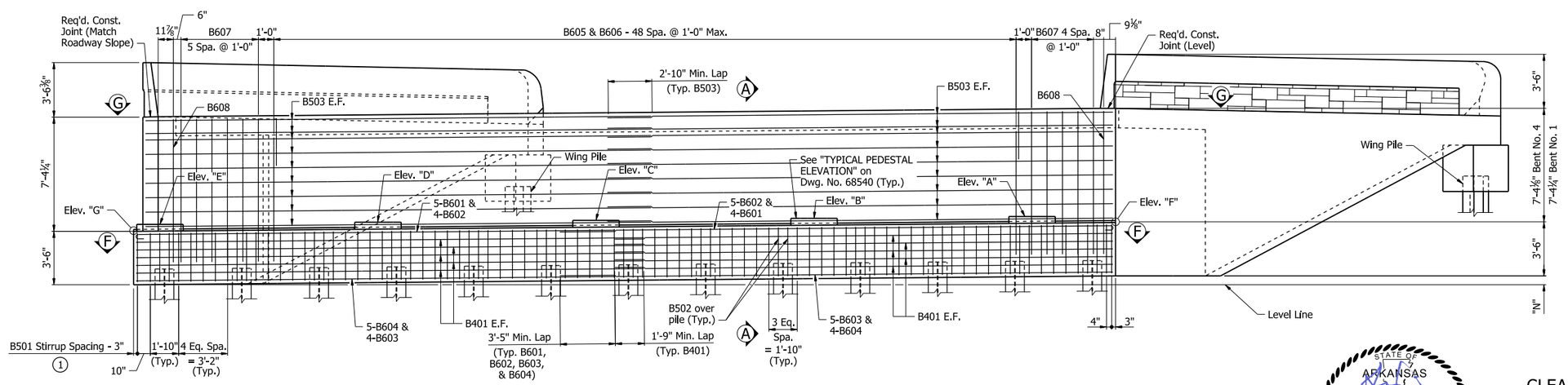
Class 2 Protective Surface Treatment shall be applied to the roadway face and top of the wing rails, and the top of the backwall.

1 Place 6" Ø tile drains approx. 6" above fill slope. Spread bars as required. Place 6 cu. ft. of sacked ¾" crushed rock or gravel at each drain. All work and materials to install drains shall be subsidiary to "Class S Concrete".



DETAIL C

No Scale



ELEVATION - BENT NO. 4A & 1B

Looking Upstation Bent No. 4A and Looking Backstation Bent No. 1B

1 Contractor shall adjust B501 & B502 bar spacing to accommodate anchor bolts or sheet metal sleeves. B501 & B502 bars may be shifted up to one bar space or bundled with a neighboring stirrup. In no case shall the space between neighboring sets of stirrups exceed twice the detailed spacing.

TABLE OF VARIABLES

Bent No.	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"AA"	"AB"	"AC"
4A	420.22	420.10	419.97	419.85	419.71	419.88	419.30	427.21	427.22	426.68	426.68	31'-1"	7"	427.14	427.15	687+07.69
1B	420.46	420.32	420.18	420.03	419.88	420.12	419.47	427.46	427.47	426.85	426.85	31'-4"	7¾"	427.38	427.38	683+60.06

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 5
DETAILS OF END BENTS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

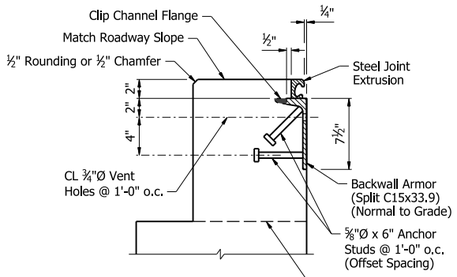
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JVS DATE: 7/16/24
CHECKED BY: QL DATE: 8/30/24
DESIGNED BY: QL DATE: 7/1/24
FILENAME: b040904m8_b12.dgn
SCALE: ¼" = 1'-0"

BRIDGE NO. A7693 & B7693 DRAWING NO. 68539

PRINT DATE: 4/8/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	429	742
		A7693 & B7693 - END BENTS - 68540				

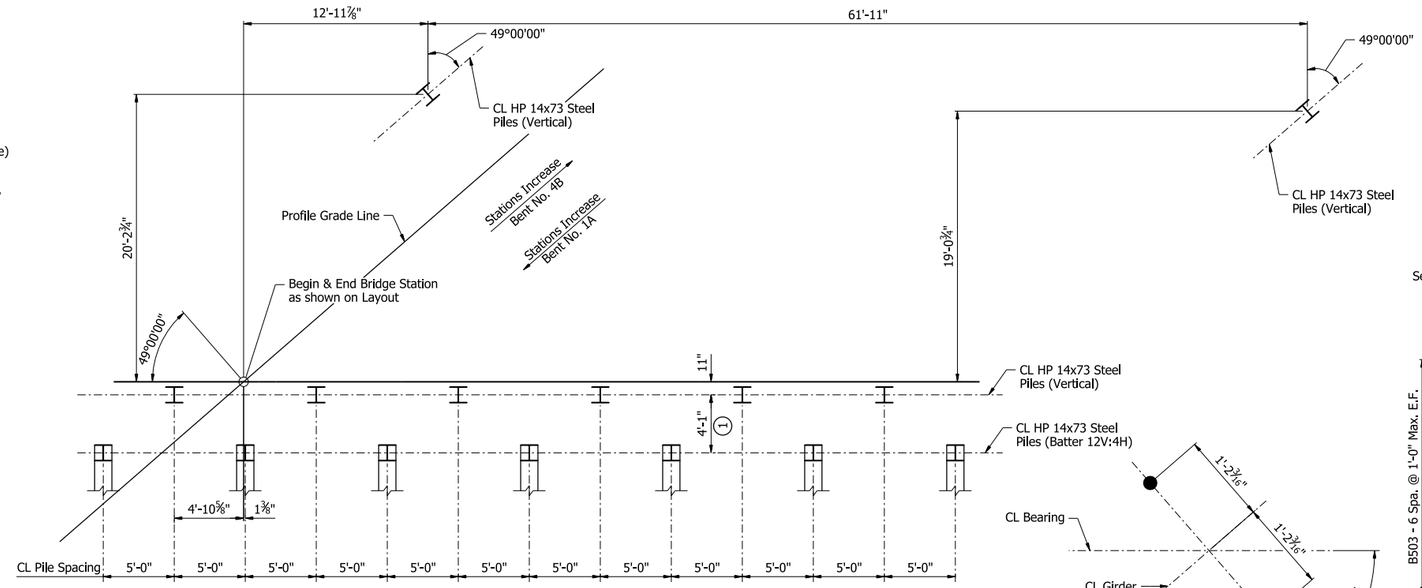


DETAIL B
No Scale

Notes:
Transverse spacing between vertical anchor studs and vent holes shall be 6".

Concrete shall be hand-packed under the joint armor.

For additional joint details, see Std. Dwg. No. 55009.



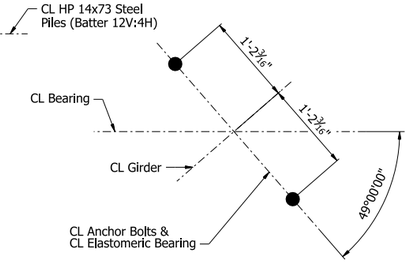
LAYOUT OF PILES BENT NO. 1A & 4B
No Scale

(1) Measured at bottom of cap.

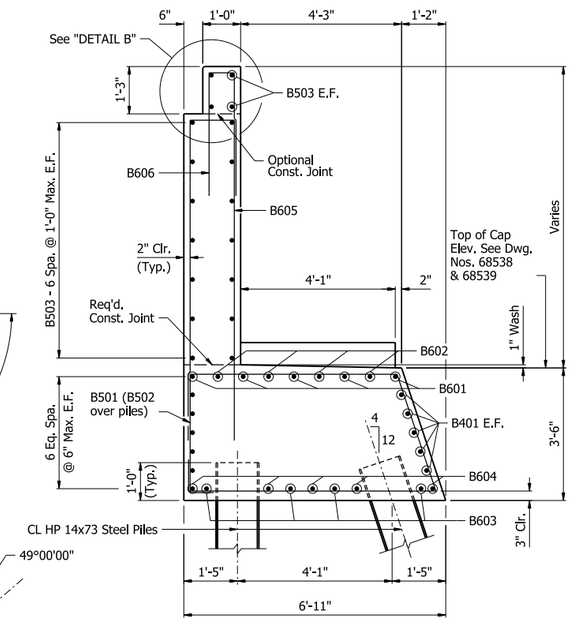
Notes:
For "DETAILS OF ELASTOMERIC BEARINGS", see Dwg. Nos. 68599 & 68600.

For Joint Details, see Std. Dwg. No. 55009.

No portion of the backwall shall be poured before girders are in place. The portion of the backwall above the optional construction joint at the paving bracket shall not be placed until the adjacent deck pour has been made. Refer to the "EXPANSION DEVICE INSTALLATION AT END BENTS" note on Std. Dwg. No. 55009. No heavy construction equipment shall be allowed within 10' of the backwall before the deck concrete placement for the adjacent span has been completed.

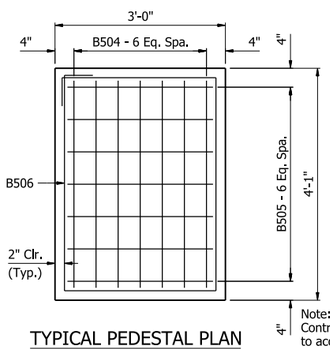


TYPICAL ANCHOR BOLT LAYOUT
1" = 1'-0"



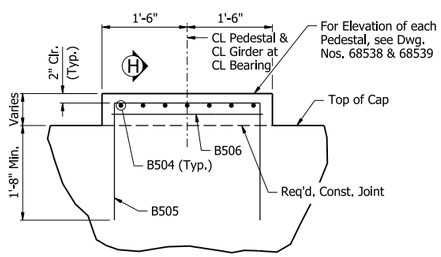
SECTION A-A
½" = 1'-0"

Note:
Contractor shall adjust B601 & B602 bar spacing to accommodate anchor bolts or sheet metal sleeves. Contractor shall maintain a minimum spacing of 3" and maximum spacing of 11".

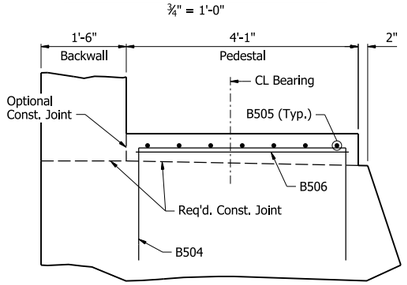


TYPICAL PEDESTAL PLAN
¾" = 1'-0"

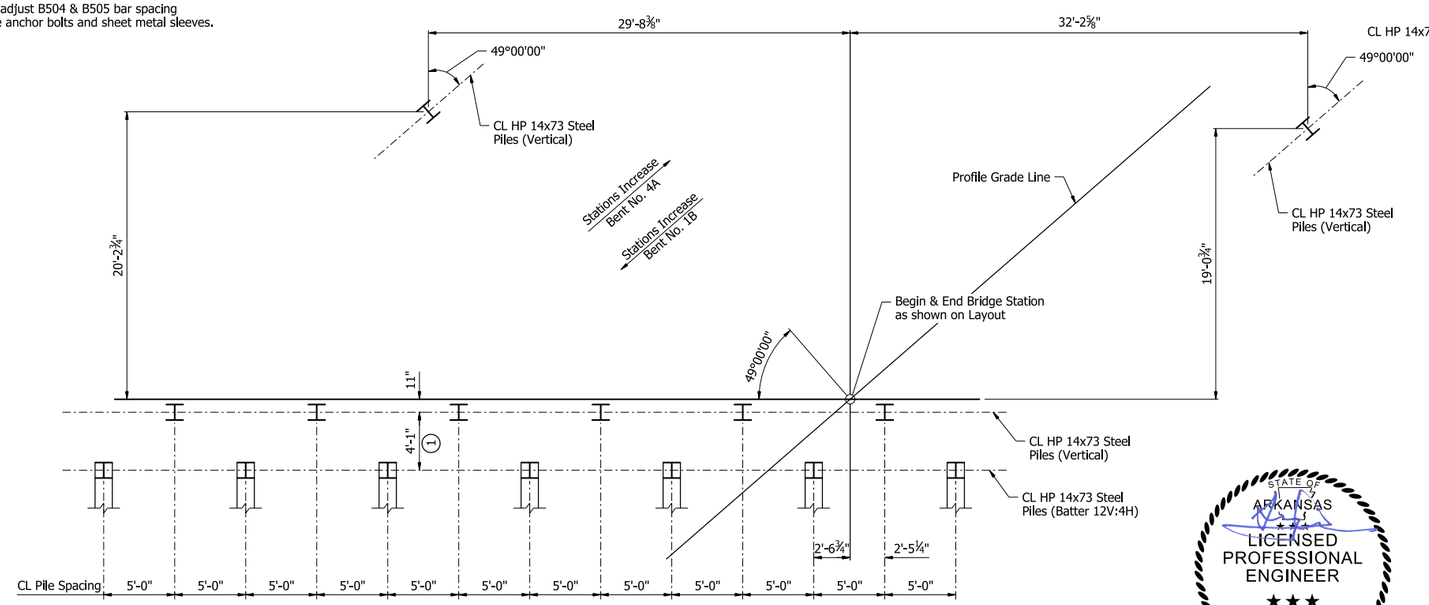
Note:
Contractor shall adjust B504 & B505 bar spacing to accommodate anchor bolts and sheet metal sleeves.



TYPICAL PEDESTAL ELEVATION
¾" = 1'-0"



SECTION H-H
¾" = 1'-0"



LAYOUT OF PILES BENT NO. 4A & 1B
No Scale

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
★★★
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 3 OF 5
DETAILS OF END BENTS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

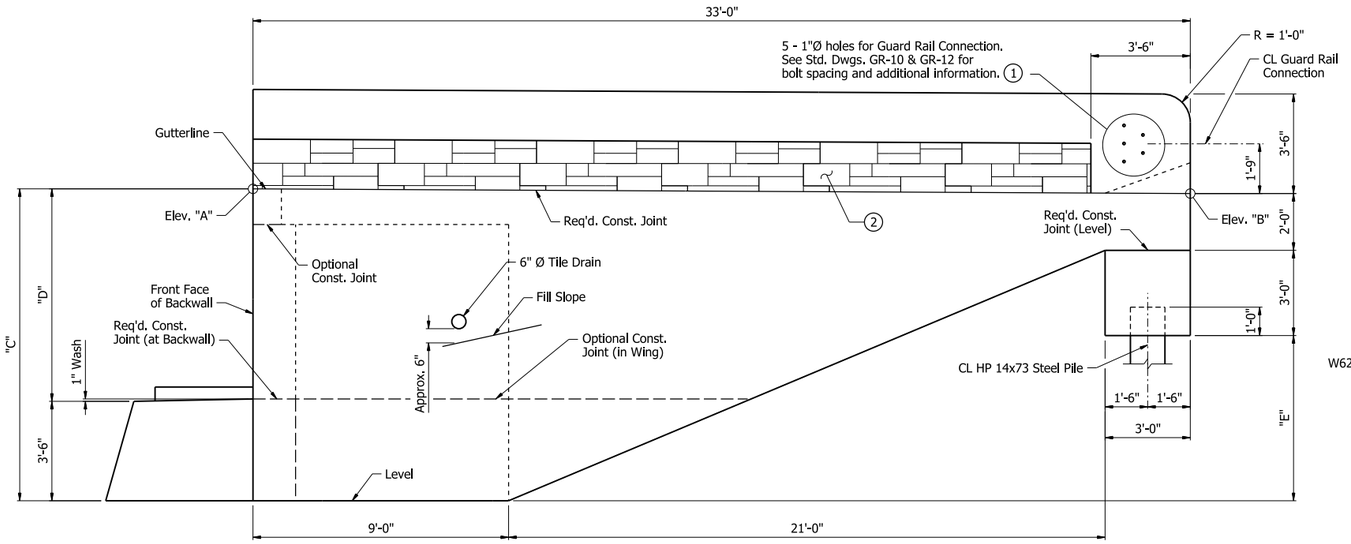
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JVS DATE: 8/20/24
CHECKED BY: QL DATE: 8/30/24
DESIGNED BY: QL DATE: 7/1/24
FILENAME: b040904m8_b13.dgn
SCALE: AS NOTED

BRIDGE NO. A7693 & B7693 DRAWING NO. 68540

PRINT DATE: 4/7/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	430	742
		A7693 & B7693 - END BENTS - 68541				



VIEW D-D

⅜" = 1'-0"
(Wing A shown; Wing B similar)

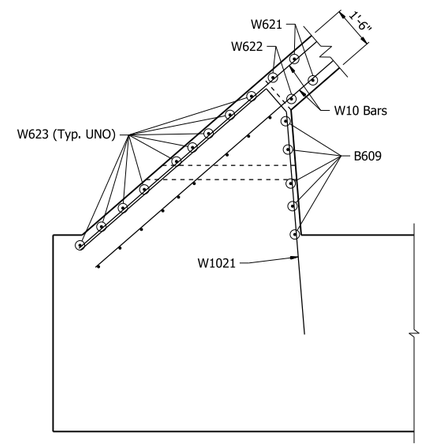
1 Required at Bent Nos. 1A Wing B, 4A Wing A & Wing B, 1B Wing A & Wing B, and 4B Wing B only.

2 "Ashlar Stone" Form Liner. For limits of form liner on rail, see Dwg. No. 68551.

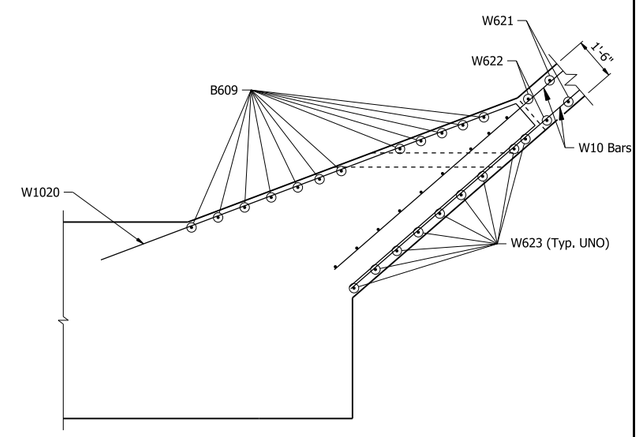
TABLE OF VARIABLES

Bent No.	Wing	Elev. "A"	Elev. "B"	"C"	"D"	"E"
1A	A	425.73	425.39	10'-11"	7'-5"	5'-7"
1A	B	426.97	426.68	10'-10⅞"	7'-4⅞"	5'-7½"
4A	A	427.22	426.98	10'-10⅛"	7'-4⅛"	5'-7¼"
4A	B	426.65	426.47	10'-10¼"	7'-4¼"	5'-8"
1B	A	427.47	427.29	10'-10¼"	7'-4¼"	5'-8"
1B	B	426.82	426.70	10'-10¼"	7'-4¼"	5'-8¾"
4B	A	425.27	424.88	10'-10⅞"	7'-4⅞"	5'-6¼"
4B	B	426.59	426.25	10'-10⅞"	7'-4⅞"	5'-6⅞"

Notes:
For "SECTION J-J", "VIEW K-K", "SECTION L-L", & "SECTION M-M", see Dwg. No. 68542.



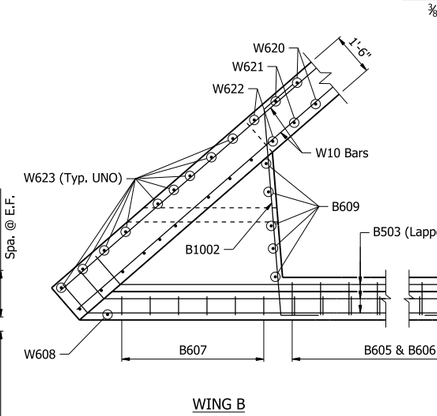
WING B



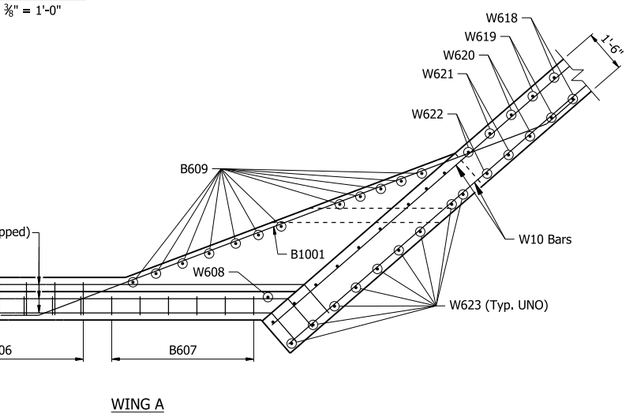
WING A

SECTION F-F

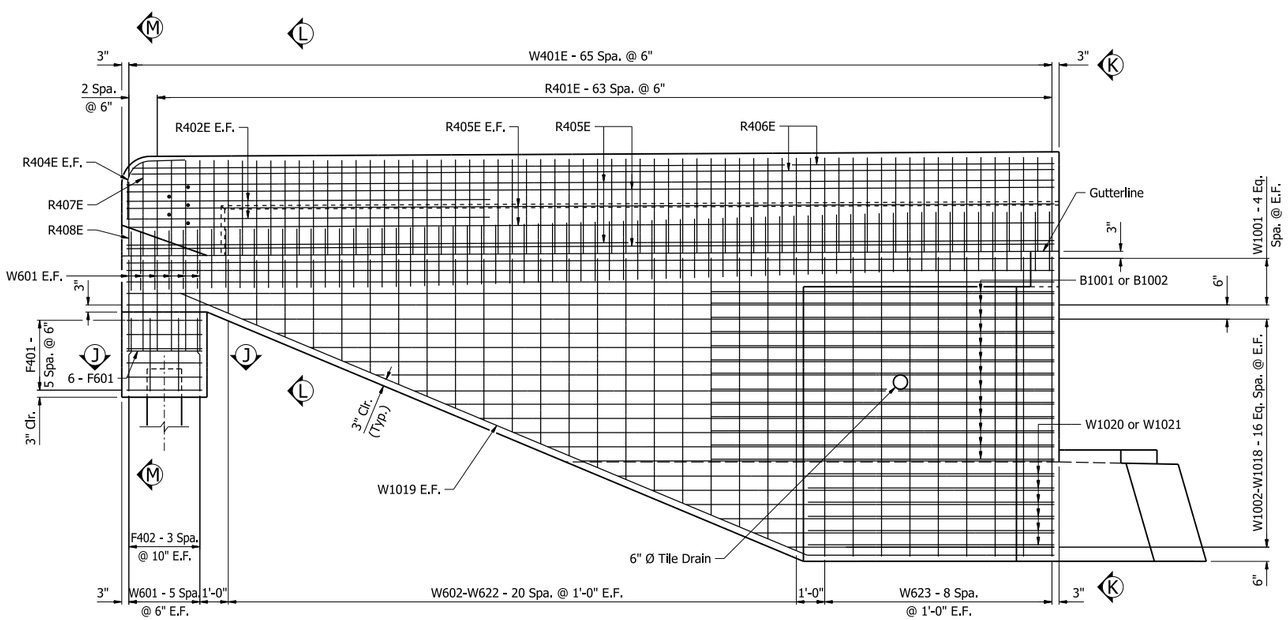
⅜" = 1'-0"



WING B



WING A



VIEW E-E

⅜" = 1'-0"
(Wing A shown; Wing B similar)

VIEW G-G

⅜" = 1'-0"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
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No. 17233
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5/4/26
BRIDGE ENGINEER

SHEET 4 OF 5
DETAILS OF END BENTS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

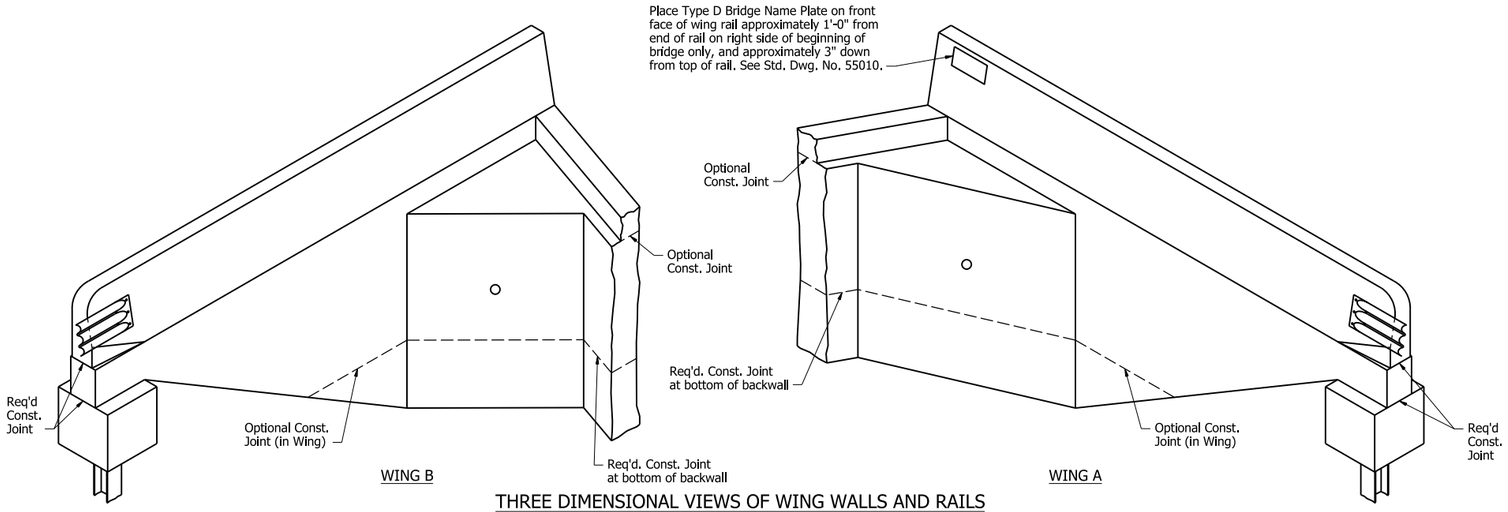
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JVS DATE: 7/16/24
CHECKED BY: QL DATE: 8/30/24
DESIGNED BY: QL DATE: 7/1/24
FILENAME: b040904m8_b14.dgn
SCALE: AS NOTED

BRIDGE NO. A7693 & B7693 DRAWING NO. 68541

PRINT DATE: 4/7/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	431	742
		A7693 & B7693 - END BENTS - 68542				

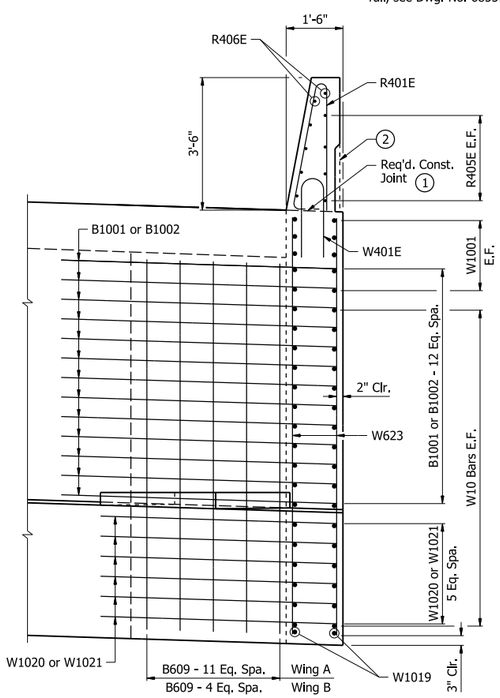


THREE DIMENSIONAL VIEWS OF WING WALLS AND RAILS

No Scale

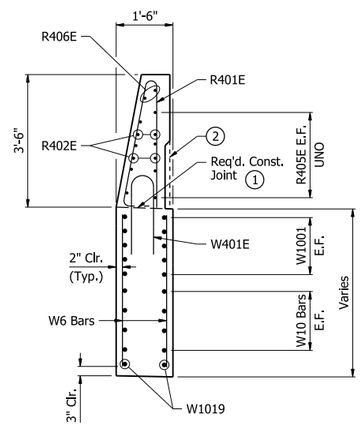
(1) For Bents 1A & 4B, match roadway slope at Wing A; Level at Wing B. For Bents 4A & 1B, match roadway slope at Wing B; Level at Wing A.

(2) "Ashlar Stone" Form Liner. For limits of form liner on rail, see Dwg. No. 68551.



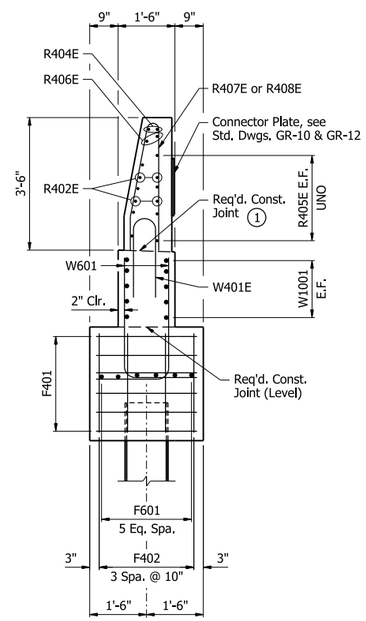
VIEW K-K

½" = 1'-0"



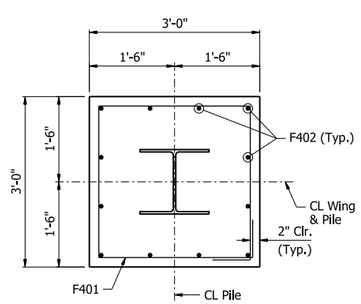
SECTION L-L

½" = 1'-0"



SECTION M-M

½" = 1'-0"



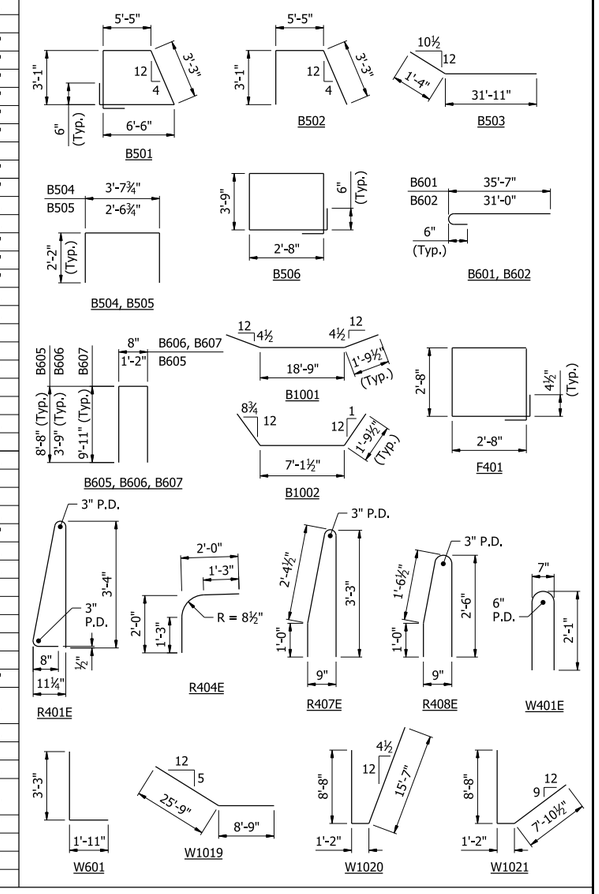
SECTION J-J

¾" = 1'-0"

BAR LIST - PER BENT

Mark	Number Required	Length	Pin Dia.
B401	20	32'-5"	Str.
B501	64	18'-11"	2½"
B502	26	11'-7"	2½"
B503	36	33'-3"	3¾"
B504	35	7'-9"	2½"
B505	35	6'-8"	2½"
B506	5	13'-4"	2½"
B601	9	36'-3"	4½"
B602	9	31'-8"	4½"
B603	9	35'-7"	Str.
B604	9	31'-0"	Str.
B605	49	18'-2"	4½"
B606	49	7'-10"	4½"
B607	11	20'-2"	4½"
B608	2	9'-11"	Str.
B609	17	9'-2"	Str.
B1001	13	22'-4"	10"
B1002	13	10'-6"	10"
F401	12	11'-0"	2"
F402	24	2'-7"	Str.
F601	12	2'-8"	Str.
R401E	128	7'-6"	3"
R402E	8	5'-6"	Str.
R404E	4	3'-8"	8½"
R405E	16	32'-8"	Str.
R406E	4	32'-5"	Str.
R407E	2	6'-8"	3"
R408E	2	5'-1"	3"
W401E	132	4'-7"	6"
W601	24	5'-0"	4½"
W602 - W622	4 each	1'-11" to 10'-3"	Str.
W623	36	10'-5"	Str.
W1001	20	32'-8"	Str.
W1002 - W1018	4 each	9'-5" to 28'-7"	Str.
W1019	4	34'-6"	10"
W1020	6	25'-0"	10"
W1021	6	17'-5"	10"

Bending Diagrams (Dimensions are out to out of bars)



All bars designated with an "E" suffix are to be epoxy coated.

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 17233 QING LIU

5/4/26

BRIDGE ENGINEER

SHEET 5 OF 5
DETAILS OF END BENTS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

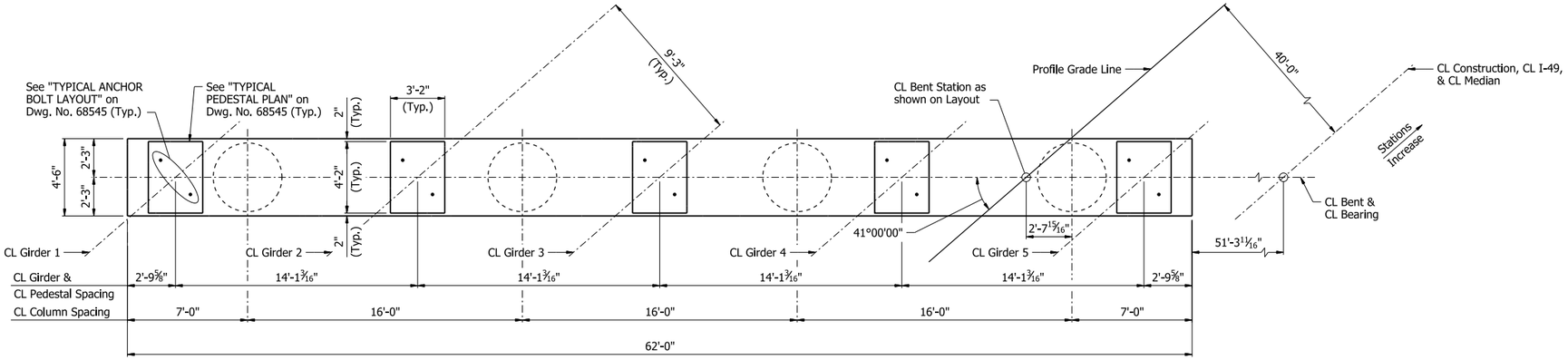
LITTLE ROCK, ARK.

DRAWN BY: JVS DATE: 8/26/24
CHECKED BY: QL DATE: 8/30/24
DESIGNED BY: QL DATE: 7/1/24
FILENAME: b040904m8_b15.dgn
SCALE: AS NOTED

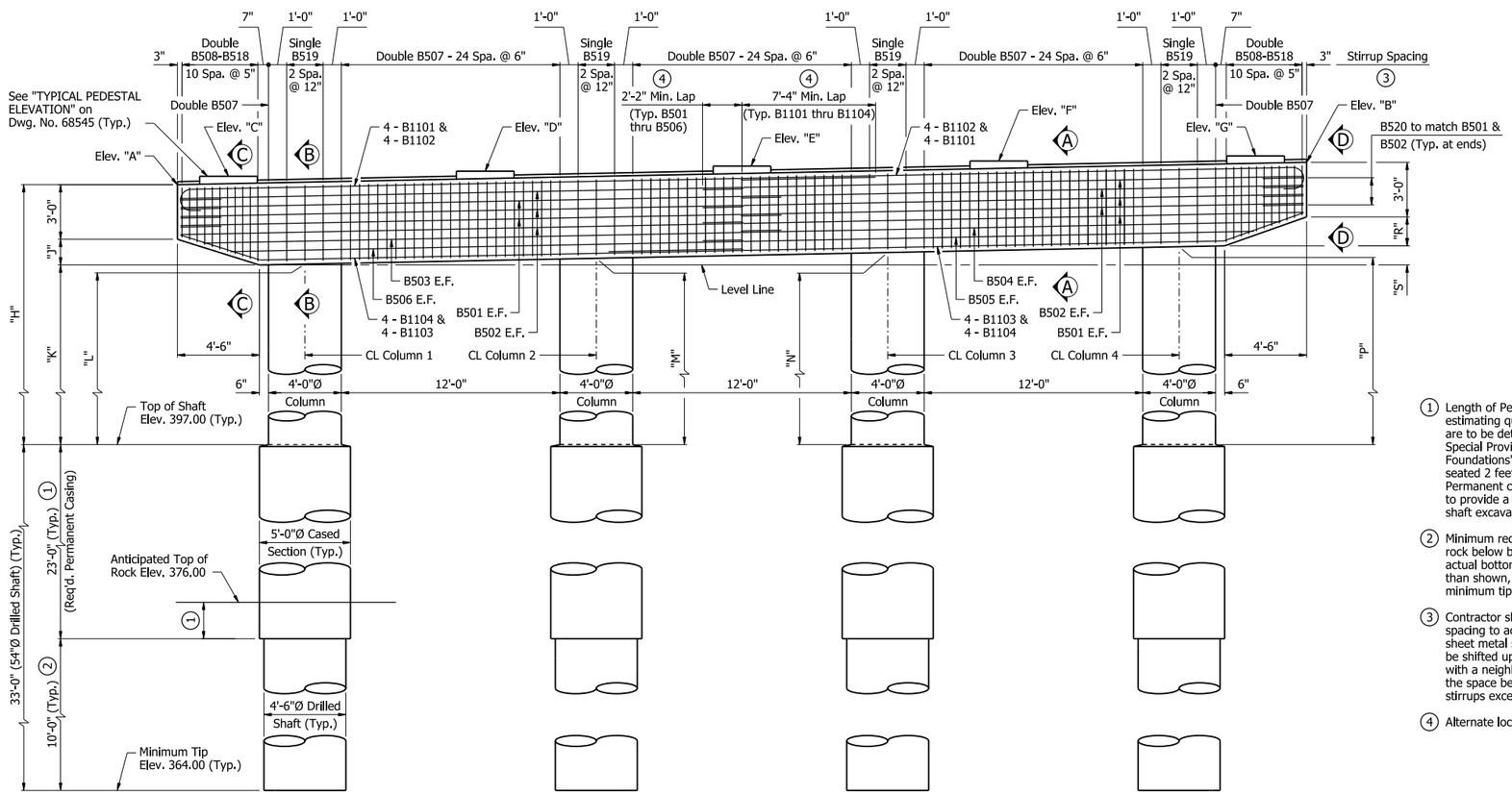
BRIDGE NO. A7693 & B7693 DRAWING NO. 68542

PRINT DATE: 4/8/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	432	742
		A7693 - INT. BENTS - 68543				



PLAN - BENT NOS. 2A & 3A



ELEVATION - BENT NOS. 2A & 3A

Looking Upstation

TABLE OF VARIABLES

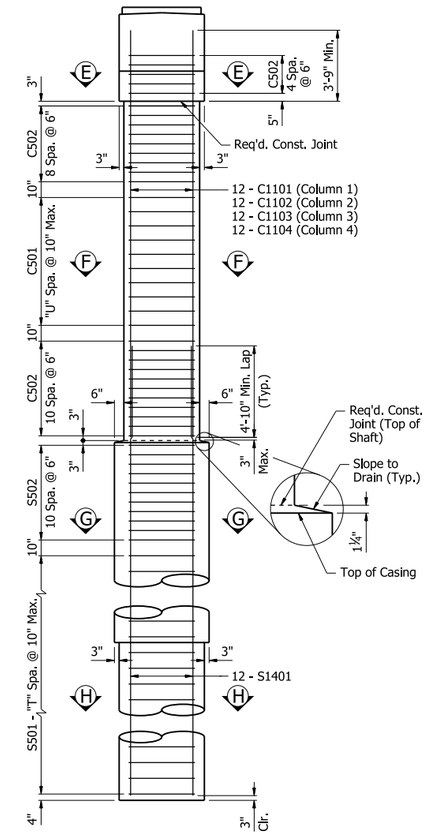
Bent No.	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"P"	"R"	"S"
2A	419.38	420.40	419.83	420.07	420.31	420.54	420.76	22'-4⅝"	1'-5⅛"	17'-11½"	18'-0"	18'-3⅛"	18'-6¼"	18'-9½"	1'-6⅞"	10½"
3A	419.76	420.51	420.19	420.37	420.54	420.71	420.88	22'-9⅛"	1'-5⅜"	18'-3¾"	18'-4⅛"	18'-6½"	18'-8¾"	18'-11⅛"	1'-6⅝"	7¾"

Notes:
For "GENERAL NOTES", see Dwg. No. 68476.

For "SECTION A-A" thru "SECTION C-C", "VIEW D-D", & "SECTION E-E" thru "SECTION H-H", see Dwg. No. 68545.

TABLE OF VARIABLES

Bent No.	Column No.	"T"	"U"
2A	1	32	9
	2	32	9
	3	32	9
	4	32	10
3A	1	32	9
	2	32	9
	3	32	10
	4	32	10



END VIEW

Notes:
Dimensions, details, & reinforcing steel shown are typical for all columns and drilled shafts.

If column, cased section, or drilled shaft length changes during construction, number of ties shall be adjusted accordingly to maintain the maximum spacing in the regions identified above.

1. Length of Permanent Casing shown is for estimating quantities only. Actual lengths are to be determined by the Contractor. See Special Provision Job 040904, "Drilled Shaft Foundations". Permanent casing is assumed seated 2 feet below anticipated top of rock. Permanent casing shall be seated into rock to provide a positive seal and stabilize the shaft excavation.
2. Minimum required drilled shaft length into rock below bottom of permanent casing. If actual bottom of permanent casing is higher than shown, extend the drilled shaft to the minimum tip elevation.
3. Contractor shall adjust B507 to B518 bar spacing to accommodate anchor bolts or sheet metal sleeves. B507 to B518 bars may be shifted up to one bar space or bundled with a neighboring stirrup. In no case shall the space between neighboring sets of stirrups exceed twice the detailed spacing.
4. Alternate location of lap splice as shown.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
7/6/26
BRIDGE ENGINEER

SHEET 1 OF 3
DETAILS OF INTERMEDIATE BENTS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

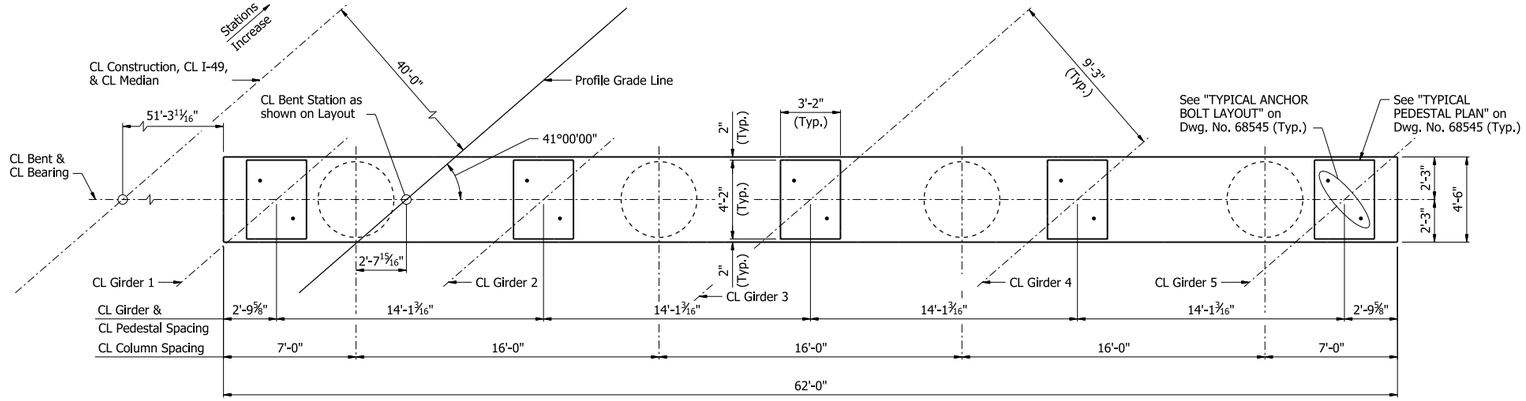
LITTLE ROCK, ARK.

DRAWN BY:	CEM	DATE:	8/27/24	FILENAME:	b040904m8_b21.dgn
CHECKED BY:	CCD	DATE:	8/29/24	SCALE:	¼" = 1'-0"
DESIGNED BY:	JVS	DATE:	7/18/24		

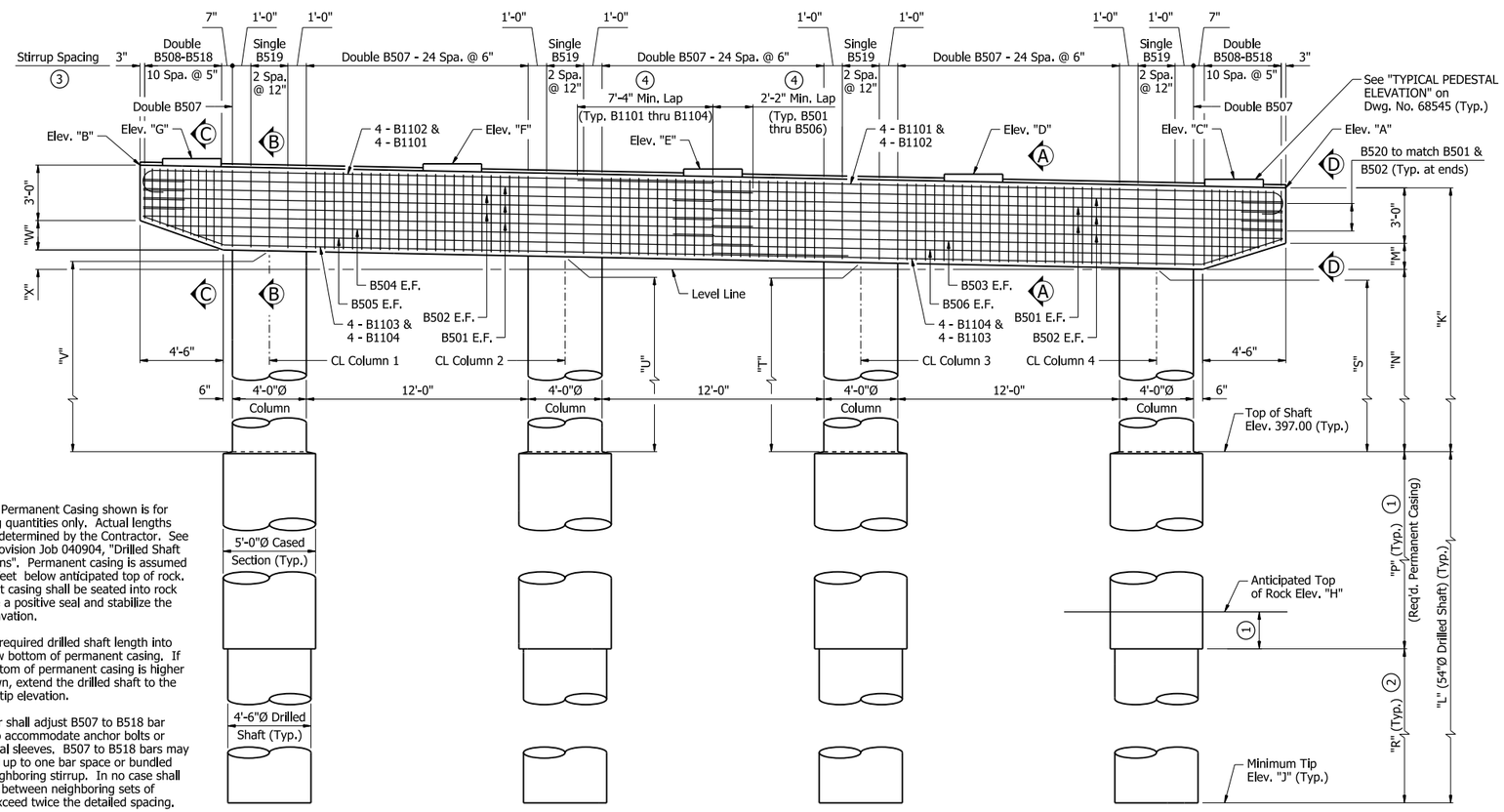
BRIDGE NO. A7693 DRAWING NO. 68543

PRINT DATE: 7/6/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	433	742
		B7693 - INT. BENTS - 68544				



PLAN - BENT NOS. 2B & 3B



1. Length of Permanent Casing shown is for estimating quantities only. Actual lengths are to be determined by the Contractor. See Special Provision Job 040904, "Drilled Shaft Foundations". Permanent casing is assumed seated 2 feet below anticipated top of rock. Permanent casing shall be seated into rock to provide a positive seal and stabilize the shaft excavation.
2. Minimum required drilled shaft length into rock below bottom of permanent casing. If actual bottom of permanent casing is higher than shown, extend the drilled shaft to the minimum tip elevation.
3. Contractor shall adjust B507 to B518 bar spacing to accommodate anchor bolts or sheet metal sleeves. B507 to B518 bars may be shifted up to one bar space or bundled with a neighboring stirrup. In no case shall the space between neighboring sets of stirrups exceed twice the detailed spacing.
4. Alternate location of lap splice as shown.

ELEVATION - BENT NOS. 2B & 3B

Looking Upstation

TABLE OF VARIABLES

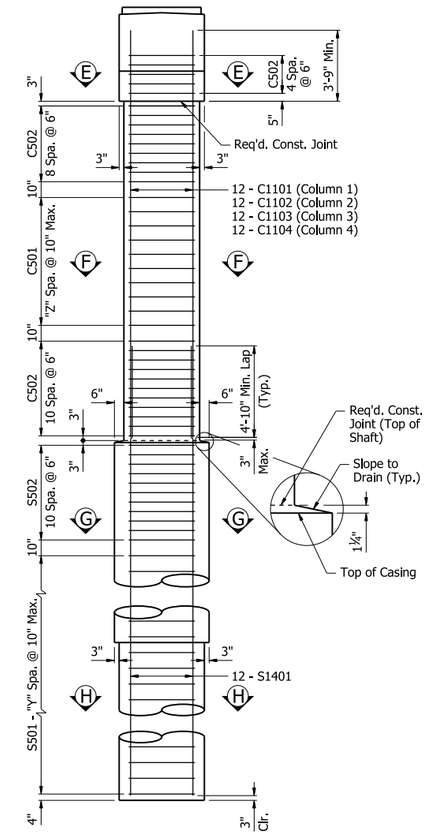
Bent No.	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"P"	"R"	"S"	"T"	"U"	"V"	"W"	"X"
2B	419.73	420.57	420.18	420.38	420.57	420.75	420.93	377.00	364.00	22'-8¾"	33'-0"	1'-5¼"	18'-3½"	22'-0"	11'-0"	18'-3⅞"	18'-6½"	18'-9⅛"	18'-11¾"	1'-6¾"	8⅝"
3B	419.10	420.20	419.57	419.83	420.08	420.33	420.57	374.00	359.00	22'-1⅛"	38'-0"	1'-5"	17'-8⅛"	25'-0"	13'-0"	17'-8⅞"	18'-0⅛"	18'-3½"	18'-6⅞"	1'-7"	11¼"

Notes:
For "GENERAL NOTES", see Dwg. No. 68476.

For "SECTION A-A" thru "SECTION C-C", "VIEW D-D", & "SECTION E-E" thru "SECTION H-H", see Dwg. No. 68545.

TABLE OF VARIABLES

Bent No.	Column No.	"Y"	"Z"
2B	1	32	10
	2	32	10
	3	32	9
	4	32	9
3B	1	38	9
	2	38	9
	3	38	9
	4	38	8



END VIEW

Notes:
Dimensions, details, & reinforcing steel shown are typical for all columns and drilled shafts.

If column, cased section, or drilled shaft length changes during construction, number of ties shall be adjusted accordingly to maintain the maximum spacing in the regions identified above.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
7/6/26
BRIDGE ENGINEER

SHEET 2 OF 3
DETAILS OF INTERMEDIATE BENTS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

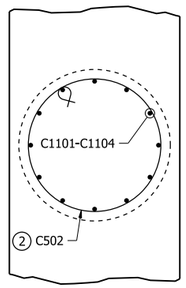
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 8/27/24
CHECKED BY: CCD DATE: 8/29/24
DESIGNED BY: JVS DATE: 7/18/24
FILENAME: b040904m8_b22.dgn
SCALE: ¼" = 1'-0"

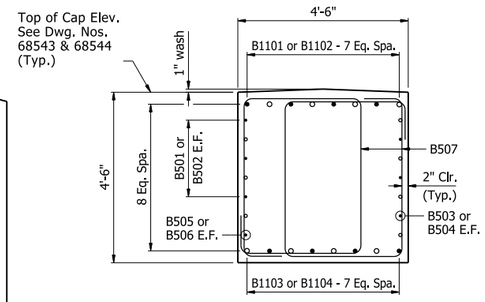
BRIDGE NO. B7693 DRAWING NO. 68544

PRINT DATE: 7/6/2026

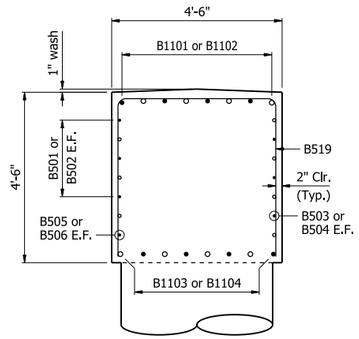
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	434	742
		A7693 & B7693 - INT. BENTS - 68545				



SECTION E-E
½" = 1'-0"
(Cap reinforcing not shown for clarity)

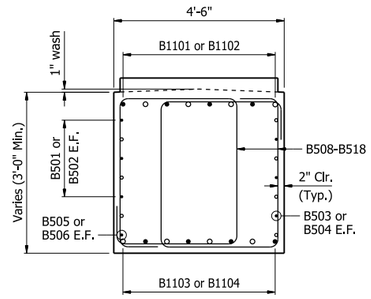


SECTION A-A
½" = 1'-0"

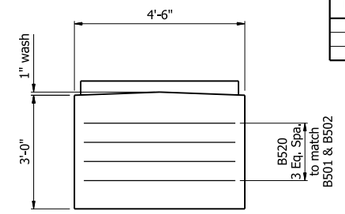


SECTION B-B
½" = 1'-0"
(Column reinforcing not shown for clarity)

Note:
Contractor shall adjust B1101 thru B1104 bar spacing to accommodate anchor bolts, sheet metal sleeves, or vertical column steel. Contractor shall maintain a minimum and maximum spacing of 4" and 10", respectively.



SECTION C-C
½" = 1'-0"
(Pedestal reinforcing not shown for clarity)



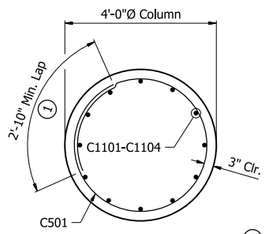
VIEW D-D
½" = 1'-0"

Notes:
For locations of "SECTION A-A" thru "SECTION C-C", "VIEW D-D", & "SECTION E-E" thru "SECTION H-H", see Dwg. Nos. 68543 & 68544.

For "DETAILS OF ELASTOMERIC BEARINGS", see Dwg. Nos. 68599 & 68600.

TABLE OF VARIABLES

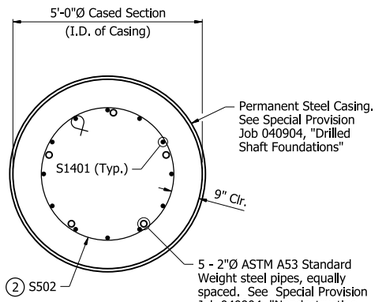
Bent No.	"CN"	"CL1"	"CL2"	"CL3"	"CL4"	"SN"	"SL"
2A	41	21'-6"	21'-10"	22'-1"	22'-3"	132	37'-10"
3A	42	21'-11"	22'-1"	22'-3"	22'-6"	132	37'-10"
2B	42	22'-6"	22'-4"	22'-1"	21'-10"	132	37'-10"
3B	39	22'-1"	21'-10"	21'-7"	21'-3"	156	42'-10"



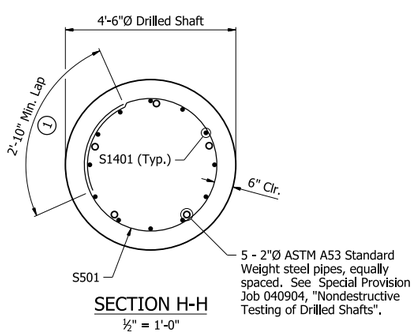
SECTION F-F
½" = 1'-0"

1 Location of lap splices in C501 & S501 ties shall be alternated 180° at adjacent ties.

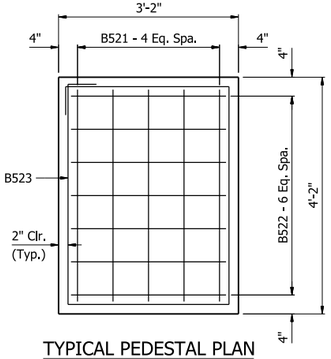
2 Location of end hooks in C502 & S502 ties shall be alternated 180° at adjacent ties.



SECTION G-G
½" = 1'-0"

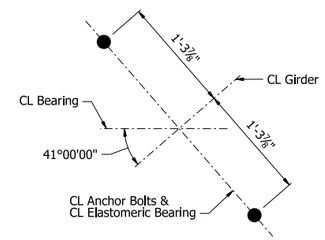


SECTION H-H
½" = 1'-0"

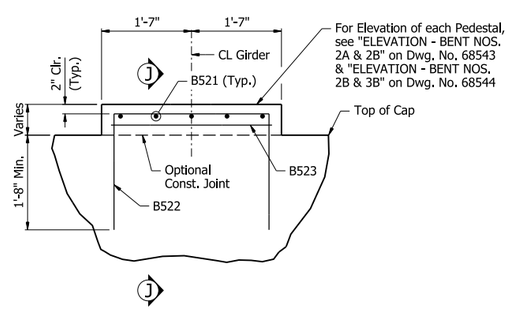


TYPICAL PEDESTAL PLAN
¾" = 1'-0"

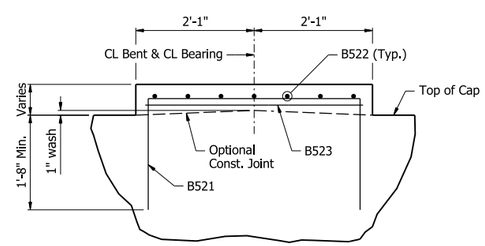
Note:
Contractor shall adjust B521 & B522 bar spacing to accommodate anchor bolts and sheet metal sleeves.



TYPICAL ANCHOR BOLT LAYOUT
1" = 1'-0"



TYPICAL PEDESTAL ELEVATION
¾" = 1'-0"

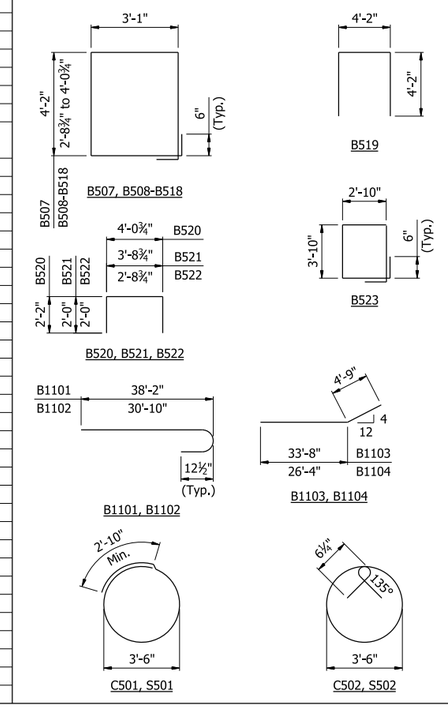


SECTION J-J
¾" = 1'-0"

BAR LIST- PER BENT

Mark	Number Required	Length	Pin Dia.
B501	10	33'-0"	Str.
B502	10	30'-10"	Str.
B503	2	31'-11"	Str.
B504	2	29'-9"	Str.
B505	2	30'-5"	Str.
B506	2	28'-4"	Str.
B507	154	15'-0"	2½"
B508 - B518	4 each	12'-1" to 14'-9"	2½"
B519	12	12'-4"	2½"
B520	8	8'-2"	2½"
B521	25	7'-6"	2½"
B522	35	6'-6"	2½"
B523	5	13'-10"	2½"
B1101	8	39'-8"	11¼"
B1102	8	32'-4"	11¼"
B1103	8	38'-5"	11¼"
B1104	8	31'-1"	11¼"
C501	"CN"	13'-8"	-
C502	100	12'-4"	3¾"
C1101	12	"CL1"	Str.
C1102	12	"CL2"	Str.
C1103	12	"CL3"	Str.
C1104	12	"CL4"	Str.
3 S501	"SN"	13'-8"	-
3 S502	44	12'-4"	3¾"
3 S1401	48	"SL"	Str.

Bending Diagrams (Dimensions are out to out of bars)



3 S1401 longitudinal reinforcement and S501 & S502 tie reinforcement are non-pay items which are subsidiary to item "DRILLED SHAFT (54" DIA.)". Individual lengths shall be determined by the Contractor.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
★★★
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 3 OF 3
DETAILS OF INTERMEDIATE BENTS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 8/27/24
CHECKED BY: CCD DATE: 8/29/24
DESIGNED BY: JVS DATE: 7/18/24
FILENAME: b040904m8_b23.dgn
SCALE: AS NOTED

BRIDGE NO. A7693 & B7693 DRAWING NO. 68545

PRINT DATE: 3/16/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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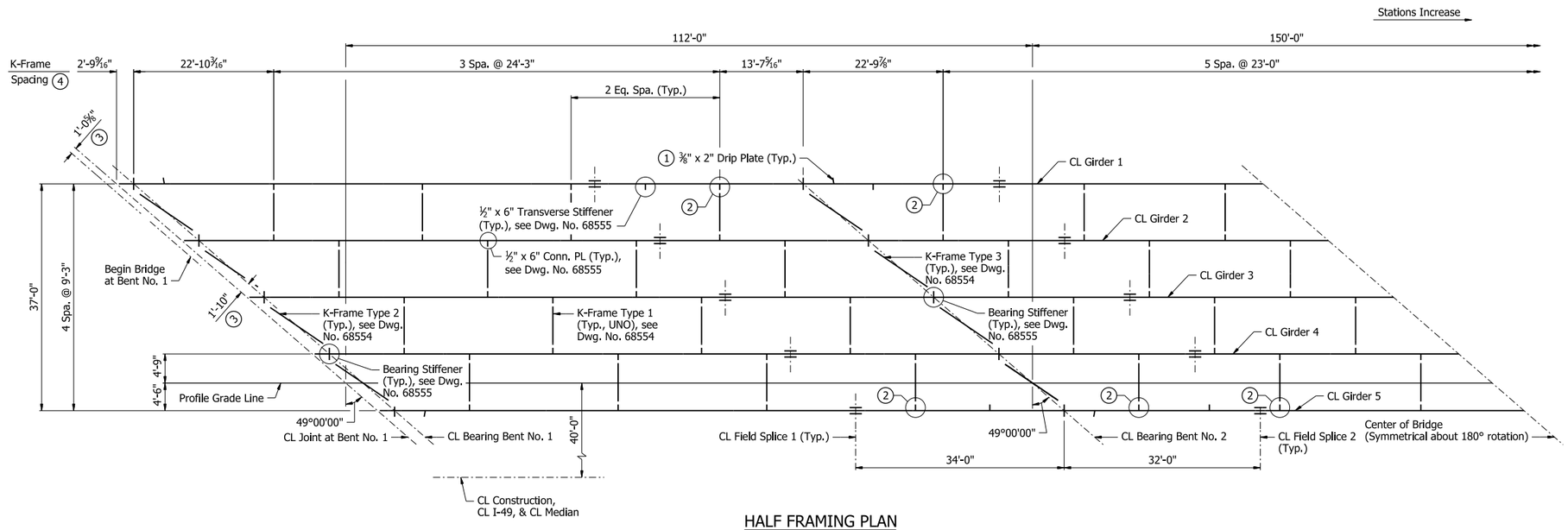
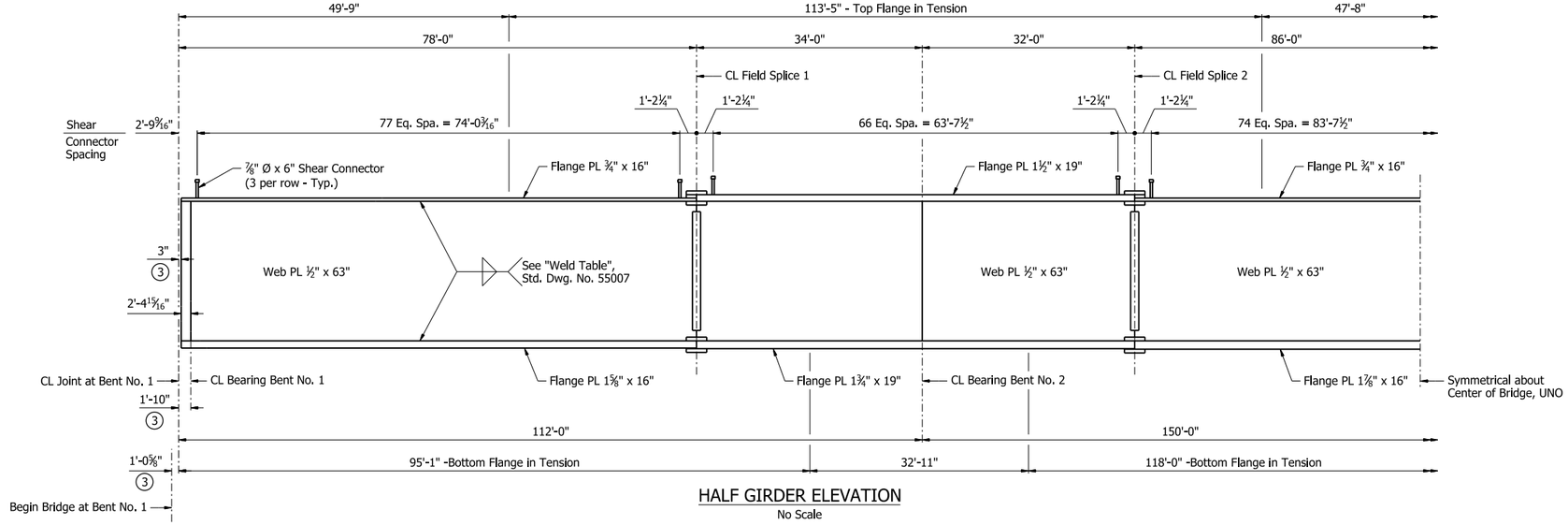
		A7693 - 374'-0" UNIT - 68546				



HALF FRAMING PLAN

3/32" = 1'-0"



HALF GIRDER ELEVATION

No Scale

Notes:
All Structural Steel shall be ASTM A709, Grade 50 unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50)."

For "DETAILS OF FIELD SPLICES", see Dwg. No. 68553.

For Dead Load Deflections, see Dwg. No. 68555.

Longitudinal dimensions in the Framing Plan are horizontal and measured along PGL, UNO.

Longitudinal dimensions in the Girder Elevation are horizontal and measured along CL Girder, UNO.

Transverse dimensions are measured normal to PGL, UNO.

All intermediate cross frames are normal to PGL.

All transverse stiffeners are normal to CL Girder.

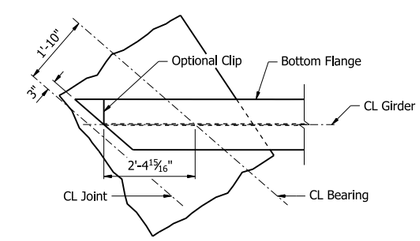
For plan view of top flange at end of girder, see "STANDARD DETAILS FOR NEOPRENE STRIP SEAL JOINTS", Std. Dwg. No. 55009.

(1) Location of drip plate is symmetrical about 180° rotation. It shall be placed on the up-hill side of each bent. Stop weld 1" from edge of flange. See Std. Dwg. No. 55007 for additional details.

(2) Connection Plates acting as transverse stiffeners.

(3) Normal to CL Joint

(4) Measured along right face of Girders 1 thru 4.



PLAN AT END BENT

1/2" = 1'-0"
(Bent No. 1 shown, Bent No. 4 similar)

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 3
DETAILS OF 374'-0" CONTINUOUS
PLATE GIRDER UNIT
BRIDGE A
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

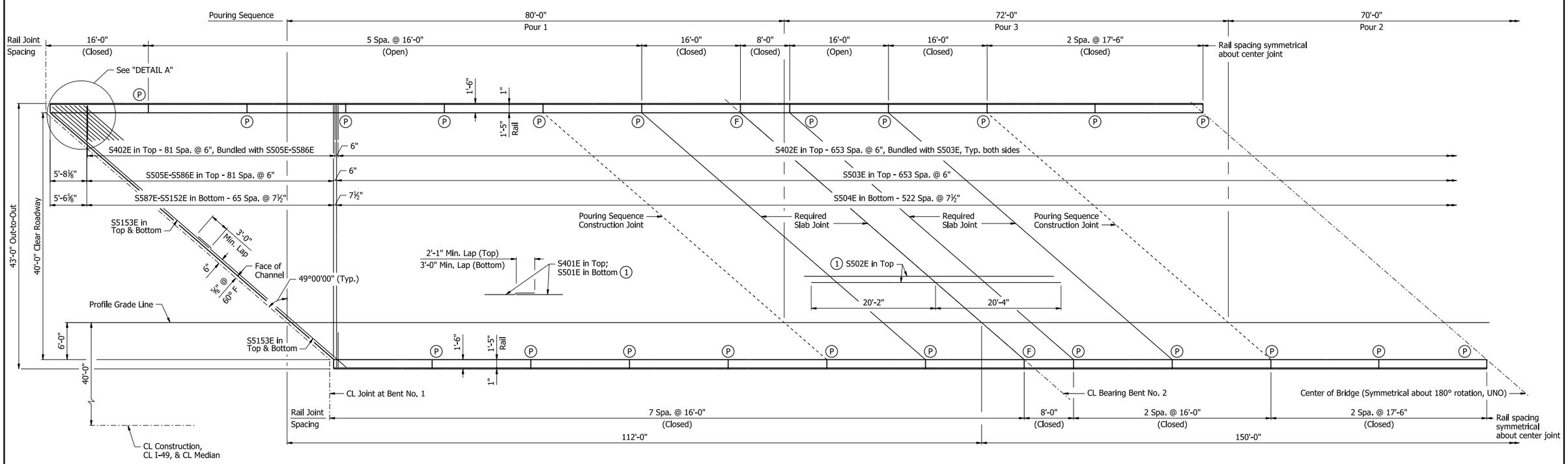
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 7/19/24
CHECKED BY: CZ DATE: 7/24/24
DESIGNED BY: CZ DATE: 04/03/24
FILENAME: b040904a8_s11.dgn
SCALE: AS NOTED

BRIDGE NO. A7693 DRAWING NO. 68546

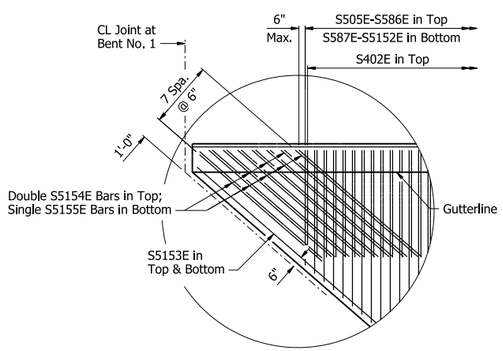
PRINT DATE: 4/13/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	436	742
		A7693 - 374'-0" UNIT - 68547				



HALF REINFORCING PLAN AND POURING SEQUENCE

⅛" = 1'-0"



DETAIL A

¼" = 1'-0"

Slab Pouring Sequence Notes:
Pours with the same number may be placed simultaneously or separately. All pours must be placed in order sequentially.
A minimum of 48 hours shall elapse between the end of a pour and the start of the next pour. A minimum of 72 hours shall elapse between the end of a pour and the start of an adjacent pour.

Concrete in bridge superstructure shall be placed, consolidated, and screeded off for the entire pour before any concrete has taken its initial set. This may require the use of a retarding agent.

For pours adjacent to Neoprene Strip Seal Joints, see Std. Dwg. No. 55009 to coordinate pours with joint installation.

A minimum of 72 hours shall elapse between completion of the slab and the pouring of the bridge railing. Any railing pours made before the entire slab unit has been placed must be approved by the Engineer. The Contractor must obtain approval from the Engineer for any deviations from the pouring sequence(s) shown.

Notes:
Required slab joints and pouring sequence joints shall align with rail joints at the gutterline.

All longitudinal dimensions are along Profile Grade Line. All transverse reinforcing steel shall be placed normal to Profile Grade Line, unless shown otherwise.

For "TRANSVERSE SLAB JOINT DETAIL", see Std. Dwg. No. 55007.

For "STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSTR42", see Std. Dwg. No. 55071.

For "STANDARD DETAILS FOR NEPRENE STRIP SEAL JOINTS", see Std. Dwg. No. 55009.

(1) Place as shown in "TYPICAL ROADWAY SECTION", see Dwg. No. 68552.

(F) CL Full-Depth Rail Joint

(P) CL Partial-Depth Rail Joint

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 3
DETAILS OF 374'-0" CONTINUOUS
PLATE GIRDER UNIT
BRIDGE A
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY:	CTK	DATE:	7/10/24	FILENAME:	b040904a8_s12.dgn
CHECKED BY:	AMW	DATE:	7/31/24	SCALE:	AS NOTED
DESIGNED BY:	RCR	DATE:	7/21/22		

BRIDGE NO. A7693 DRAWING NO. 68547

PRINT DATE: 4/2/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	437	742
		A7693 - 374'-0" UNIT - 68548				

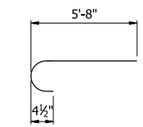
RAIL VARIABLES

Closed Rail Panels			Open Rail Panels					
Panel Length	"A"	R4XXE	Panel Length	"B"	"C"	"D"	"E"	R4XXE
8'-0"	15	R409E	16'-0"	8	3'-0"	11	6'-0"	R410E
16'-0"	31	R410E						
17'-6"	34	R411E						

BAR LIST

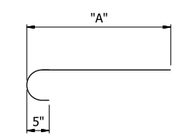
Mark	Number Required	Length	Pin Dia.
S401E	396	43'-3"	Str.
S402E	1472	6'-2"	3"
S501E	336	55'-10"	Str.
S502E	172	40'-6"	Str.
S503E	654	43'-10"	3¾"
S504E	523	42'-8"	Str.
S505E - S586E	2 each	6'-3" to 41'-5"	3¾"
S587E - S5152E	2 each	5'-6" to 40'-10"	Str.
S5153E	8	33'-2"	Str.
S5154E	32	9'-2"	3¾"
S5155E	16	8'-7"	Str.
R400E	96	6'-3"	3"
R401E	1472	7'-6"	3"
R402E	168	5'-6"	Str.
R403E	1472	3'-8"	3"
R409E	40	7'-8"	Str.
R410E	360	15'-8"	Str.
R411E	80	17'-2"	Str.

Bending Diagrams
(Dimensions are out to out of bars)

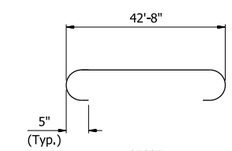


S402E

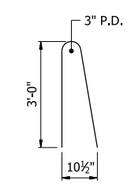
Mark (1)	"A"
S505E-S586E	5'-8" to 40'-10"
S5154E	8'-7"



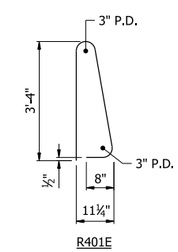
(1) S5XXE



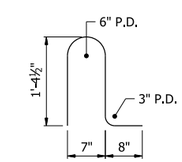
S503E



R400E



R401E



R403E

All bars designated with an "E" suffix are to be epoxy coated.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
5/4/26
BRIDGE ENGINEER

SHEET 3 OF 3
DETAILS OF 374'-0" CONTINUOUS
PLATE GIRDER UNIT
BRIDGE A
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

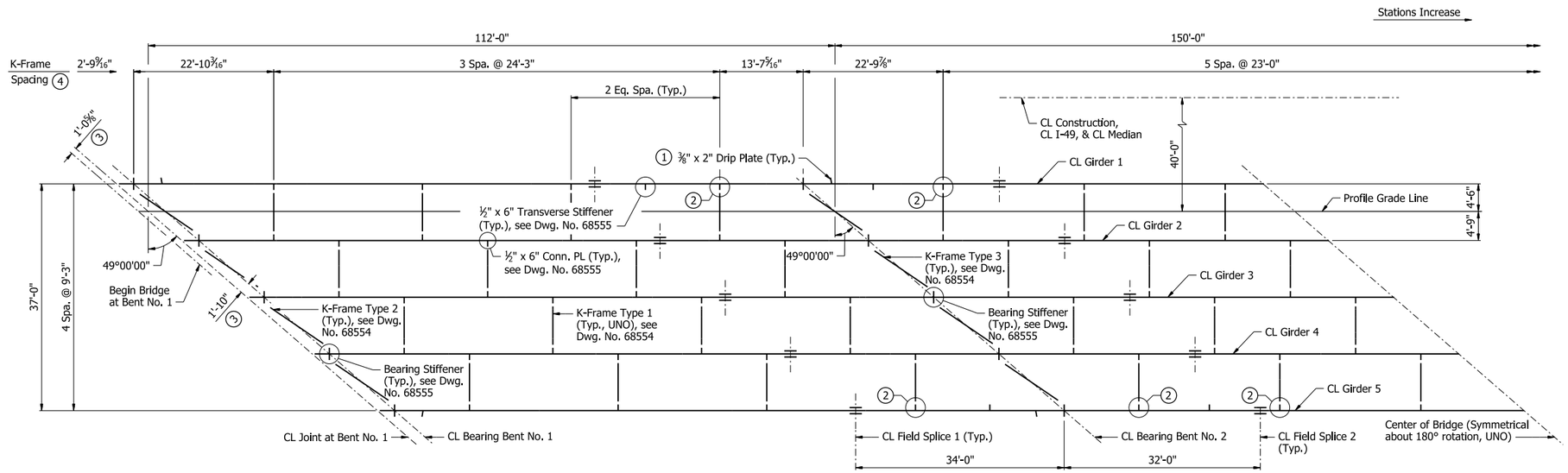
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 7/30/24
CHECKED BY: AMW DATE: 7/31/24
DESIGNED BY: RCR DATE: 7/21/22
FILENAME: b040904a8_s13.dgn
SCALE: NO SCALE

BRIDGE NO. A7693 DRAWING NO. 68548

PRINT DATE: 4/13/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	438	742
		B7693 - 374'-0" UNIT - 68549				



HALF FRAMING PLAN

3/32" = 1'-0"

Notes:
All Structural Steel shall be ASTM A709, Grade 50 unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50)."

For "DETAILS OF FIELD SPLICES", see Dwg. No. 68553.

For Dead Load Deflections, see Dwg. No. 68555.

Longitudinal dimensions in the Framing Plan are horizontal and measured along PGL, UNO.

Longitudinal dimensions in the Girder Elevation are horizontal and measured along CL Girder, UNO.

Transverse dimensions are measured normal to PGL, UNO.

All intermediate cross frames are normal to PGL.

All transverse stiffeners are normal to CL Girder.

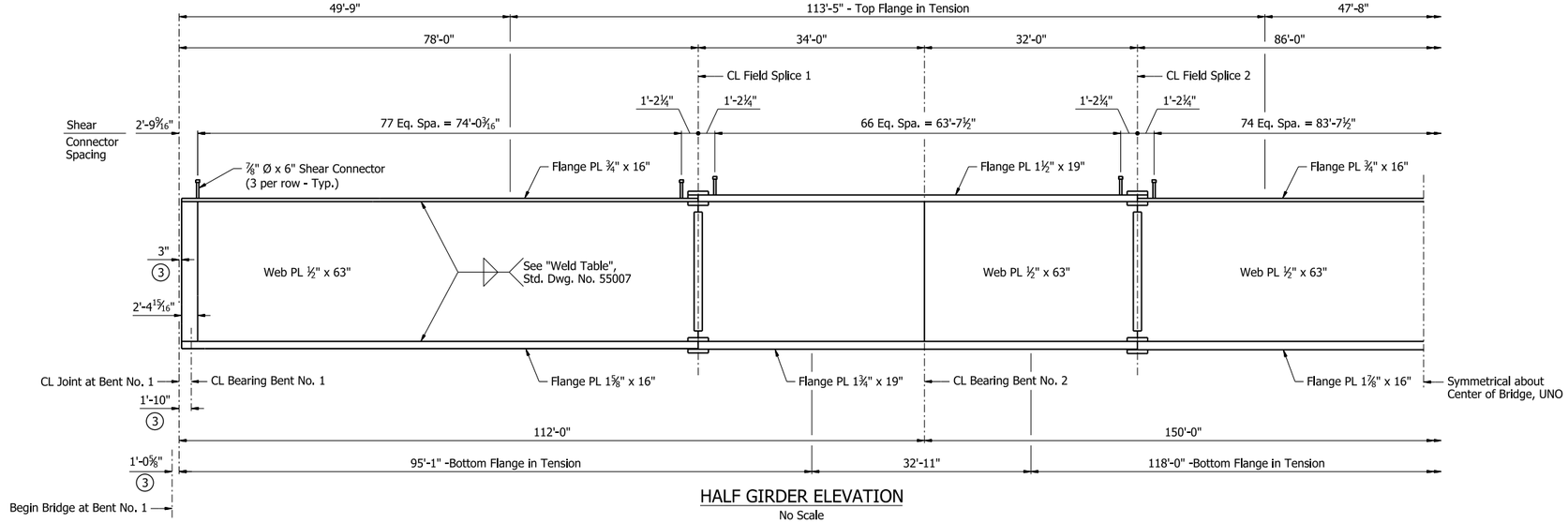
For plan view of top flange at end of girder, see "STANDARD DETAILS FOR NEOPRENE STRIP SEAL JOINTS", Std. Dwg. No. 55009.

(1) Location of drip plate is not symmetrical about 180° rotation. It shall be placed on the up-hill side of each bent. Stop weld 1" from edge of flange. See Std. Dwg. No. 55007 for additional details.

(2) Connection Plates acting as transverse stiffeners.

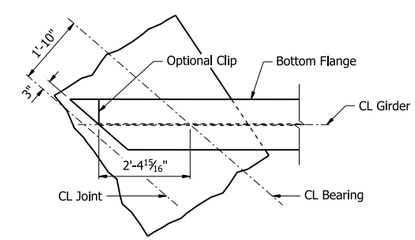
(3) Normal to CL Joint

(4) Measured along right face of Girders 1 thru 4.



HALF GIRDER ELEVATION

No Scale



PLAN AT END BENT

1/2" = 1'-0"
(Bent No. 1 shown, Bent No. 4 similar)

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 3
DETAILS OF 374'-0" CONTINUOUS
PLATE GIRDER UNIT
BRIDGE B
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

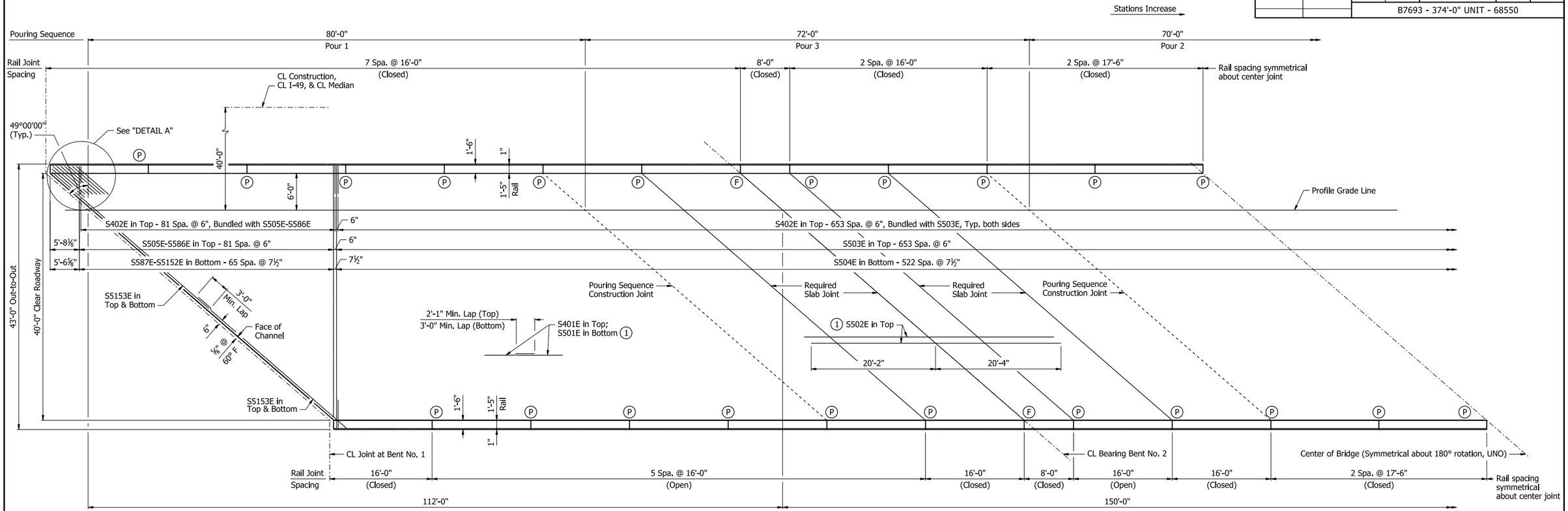
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 7/19/24
CHECKED BY: CZ DATE: 7/24/24
DESIGNED BY: CZ DATE: 04/03/24
FILENAME: b040904b8_s11.dgn
SCALE: AS NOTED

BRIDGE NO. B7693 DRAWING NO. 68549

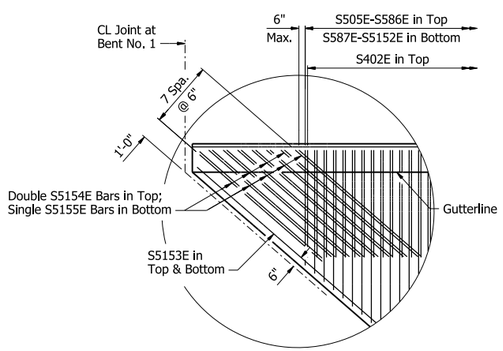
PRINT DATE: 4/13/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	439	742
		B7693 - 374'-0" UNIT - 68550				



HALF REINFORCING PLAN AND POURING SEQUENCE

⅛" = 1'-0"



DETAIL A

¼" = 1'-0"

Slab Pouring Sequence Notes:

Pours with the same number may be placed simultaneously or separately. All pours must be placed in order sequentially.
A minimum of 48 hours shall elapse between the end of a pour and the start of the next pour. A minimum of 72 hours shall elapse between the end of a pour and the start of an adjacent pour.

Concrete in bridge superstructure shall be placed, consolidated, and screeded off for the entire pour before any concrete has taken its initial set. This may require the use of a retarding agent.

For pours adjacent to Neoprene Strip Seal Joints, see Std. Dwg. No. 55009 to coordinate pours with joint installation.

A minimum of 72 hours shall elapse between completion of the slab and the pouring of the bridge railing. Any railing pours made before the entire slab unit has been placed must be approved by the Engineer. The Contractor must obtain approval from the Engineer for any deviations from the pouring sequence(s) shown.

Notes:
Required slab joints and pouring sequence joints shall align with rail joints at the gutterline.

All longitudinal dimensions are along Profile Grade Line. All transverse reinforcing steel shall be placed normal to Profile Grade Line, unless shown otherwise.

For "TRANSVERSE SLAB JOINT DETAIL", see Std. Dwg. No. 55007.

For "STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSTR42", see Std. Dwg. No. 55071.

For "STANDARD DETAILS FOR NEPRENE STRIP SEAL JOINTS", see Std. Dwg. No. 55009.

(1) Place as shown in "TYPICAL ROADWAY SECTION", see Dwg. No. 68552.

(F) CL Full-Depth Rail Joint

(P) CL Partial-Depth Rail Joint

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 3
DETAILS OF 374'-0" CONTINUOUS
PLATE GIRDER UNIT
BRIDGE B
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 8/20/24
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BRIDGE NO. B7693 DRAWING NO. 68550

PRINT DATE: 4/6/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	440	742
		B7693 - 374'-0" UNIT - 68551				

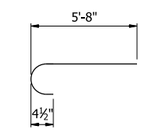
RAIL VARIABLES

Closed Rail Panels			Open Rail Panels					
Panel Length	"A"	R4XXE	Panel Length	"B"	"C"	"D"	"E"	R4XXE
8'-0"	15	R409E	16'-0"	8	3'-0"	11	6'-0"	R410E
16'-0"	31	R410E						
17'-6"	34	R411E						

BAR LIST

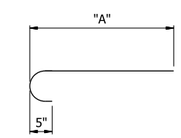
Mark	Number Required	Length	Pin Dia.
S401E	396	43'-3"	Str.
S402E	1472	6'-2"	3"
S501E	336	55'-10"	Str.
S502E	172	40'-6"	Str.
S503E	654	43'-10"	3¾"
S504E	523	42'-8"	Str.
S505E - S586E	2 each	6'-3" to 41'-5"	3¾"
S587E - S5152E	2 each	5'-6" to 40'-10"	Str.
S5153E	8	33'-2"	Str.
S5154E	32	9'-2"	3¾"
S5155E	16	8'-7"	Str.
R400E	96	6'-3"	3"
R401E	1472	7'-6"	3"
R402E	168	5'-6"	Str.
R403E	1472	3'-8"	3"
R409E	40	7'-8"	Str.
R410E	360	15'-8"	Str.
R411E	80	17'-2"	Str.

Bending Diagrams
(Dimensions are out to out of bars)

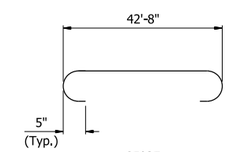


S402E

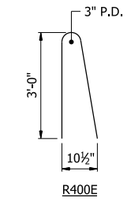
Mark (1)	"A"
S505E-S586E	5'-8" to 40'-10"
S5154E	8'-7"



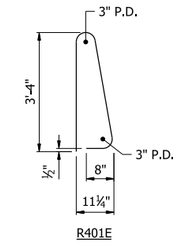
(1) S5XXE



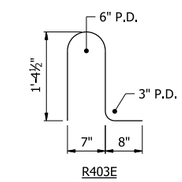
S503E



R400E

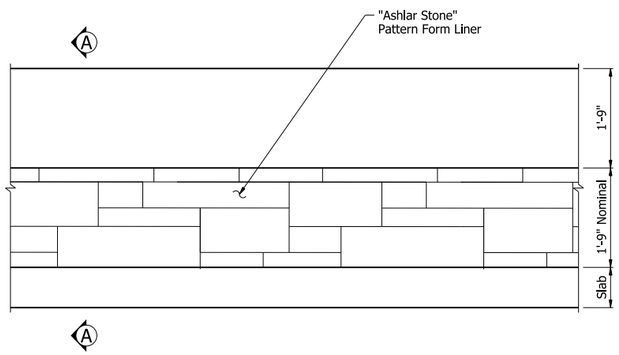


R401E

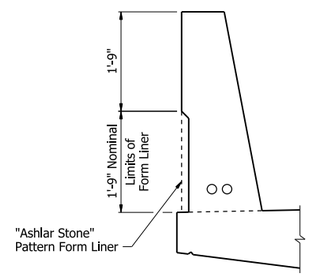


R403E

All bars designated with an "E" suffix are to be epoxy coated.



RAIL ARCHITECTURAL FINISH ELEVATION
(Rail on bridge slab shown, Rail on wingwall similar)



SECTION A-A

Note:
For details not shown, see Special Provision "ARCHITECTURAL FINISH"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
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BRIDGE ENGINEER

SHEET 3 OF 3
DETAILS OF 374'-0" CONTINUOUS
PLATE GIRDER UNIT
BRIDGE B
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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CHECKED BY: AMW DATE: 8/26/24
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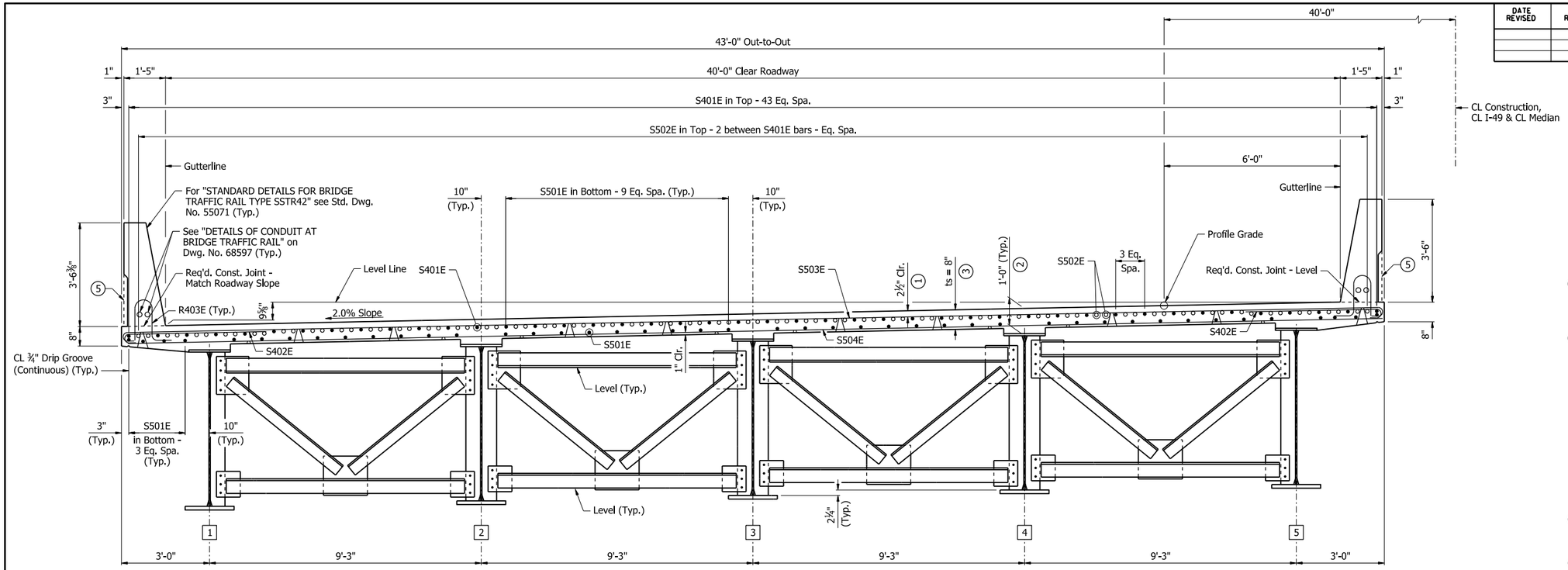
FILENAME: b040904b8_s13.dgn
SCALE: ¾" = 1'-0"
BRIDGE NO. B7693 DRAWING NO. 68551

PRINT DATE: 4/13/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	441	742
		A7693 & B7693 - COMMON DETAILS - 68552				

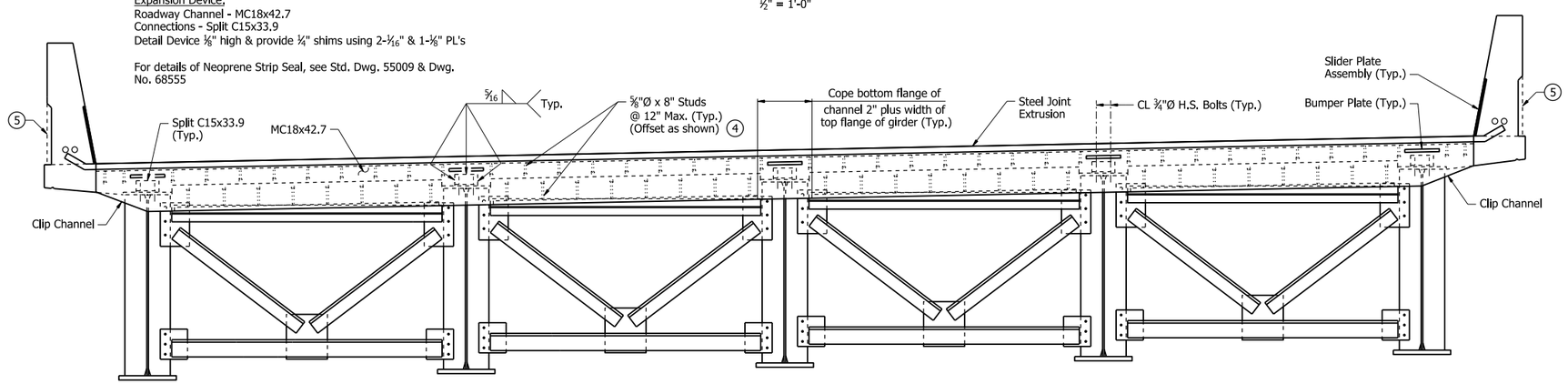


TYPICAL ROADWAY SECTION

(A7693 shown, B7693 opposite hand)
(Looking Upstation)
½" = 1'-0"

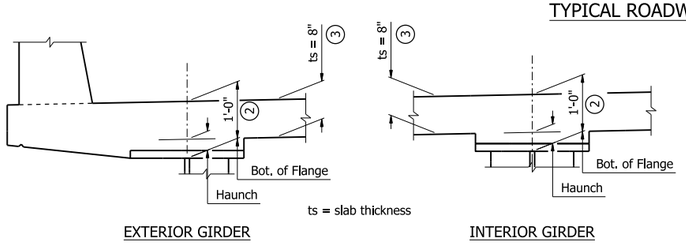
Expansion Device:
Roadway Channel - MC18x42.7
Connections - Split C15x33.9
Detail Device ⅛" high & provide ¼" shims using 2-1/16" & 1-⅛" PL's

For details of Neoprene Strip Seal, see Std. Dwg. 55009 & Dwg. No. 68555



TYPICAL ROADWAY SECTION THRU NEOPRENE STRIP SEAL JOINT AT END BENT NOS. 1 & 4

½" = 1'-0"



ADJUSTMENT FOR SLAB THICKNESS TOLERANCE

¾" = 1'-0"

Notes:
For details of Bridge Finishes and Protective Surface Treatment, see Dwg No. 68476.

Bar positions or clearances from the forms shall be maintained by means of stays, ties, hangers, or other approved devices per Subsection 804.06. Placement of slab bolsters or high-chairs with full-length lower runners directly on removable deck forms will not be allowed.

For A7693 "HALF REINFORCING PLAN AND POURING SEQUENCE", see Dwg. No. 68547.

For B7693 "HALF REINFORCING PLAN AND POURING SEQUENCE", see Dwg. No. 68550.

For K-Frame details, see Dwg. No. 68554.

1. Tolerance: Minus = ¼"; Plus equal to the amount of slab thickening used to meet slab thickness tolerance. See "ADJUSTMENT FOR SLAB THICKNESS TOLERANCE".

2. Haunch dimensions may vary within the following limits to maintain the grade and slab thickness tolerance:

Top Flange	Haunch Adjustment Tolerance	
	Plus	Minus
¾" x 16"	½"	2½"
1½" x 19"	1¼"	1¾"

No increase in concrete and structural steel quantities will be made to maintain tolerances. Tolerances shown are applicable for both removable deck forming and permanent steel deck forms. Payment for concrete shall be based on removable deck forming.

3. Tolerance: Minus = ¼"; Plus = ½". Haunch forming is required and shall be adjusted to maintain slab thickness tolerance.

4. For "DETAILS OF ALTERNATE ANCHORS", see Dwg. No. 68555.

5. For details of Architechtural Finish on rails, see Dwg. No. 68551.

SLAB REINFORCING:
Longitudinal: S401E in Top placed as shown.
S502E in Top placed as shown over Intermediate Bents.
S501E in Bottom placed as shown.

Transverse: S503E in Top @ 6"
S504E in Bottom @ 7½"
S402E in Top @ 6", Bundled with S503E

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 4
COMMON DETAILS OF CONTINUOUS PLATE GIRDER UNITS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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DESIGNED BY: RCR DATE: 7/21/22
FILENAME: b040904m8_sc1.dgn
SCALE: AS NOTED
BRIDGE NO. A7693 & B7693 DRAWING NO. 68552

PRINT DATE: 4/9/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	442	742
		A7693 & B7693 - COMMON DETAILS - 68553				

TABLE OF VARIABLES

Field Splice	"A"	"B"
1 & 4	1"	1"
2 & 3	1⅛"	1¼"

Notes:
For location of A7693 field splices, see Dwg. No. 68546.

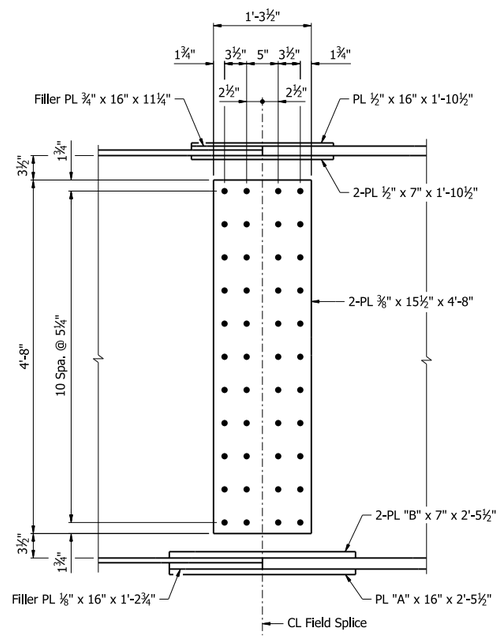
For location of B7693 field splices, see Dwg. No. 68549.

All field splice bolts shall be ASTM F3125, Gr. A325, 1"Ø H.S. bolts.

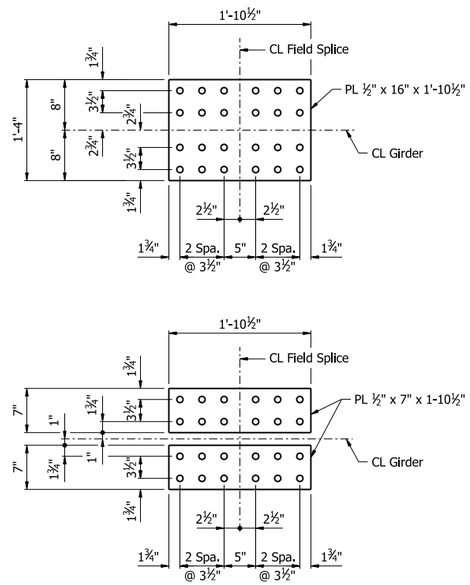
All holes for splice bolts shall be 1⅛"Ø.

All structural steel shall be ASTM A709, Grade 50, unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50)."

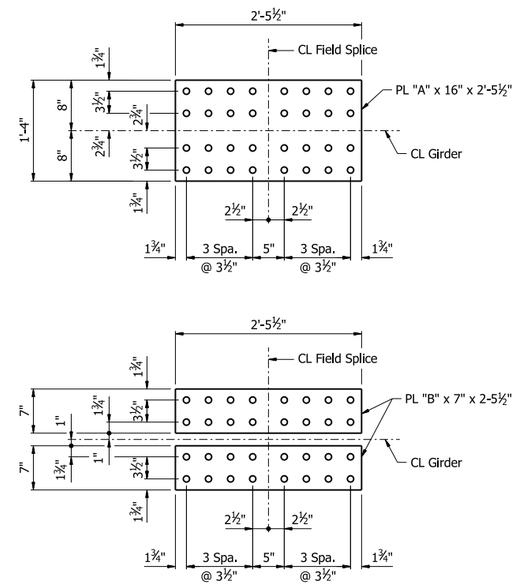
Bolted field splices may either be eliminated or shop weld splices may be substituted with the approval of the Engineer. Payment will be made on the basis of plan quantities.



WEB SPLICE



TOP FLANGE SPLICE



BOTTOM FLANGE SPLICE

DETAILS OF FIELD SPLICES

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 4
COMMON DETAILS OF CONTINUOUS
PLATE GIRDER UNITS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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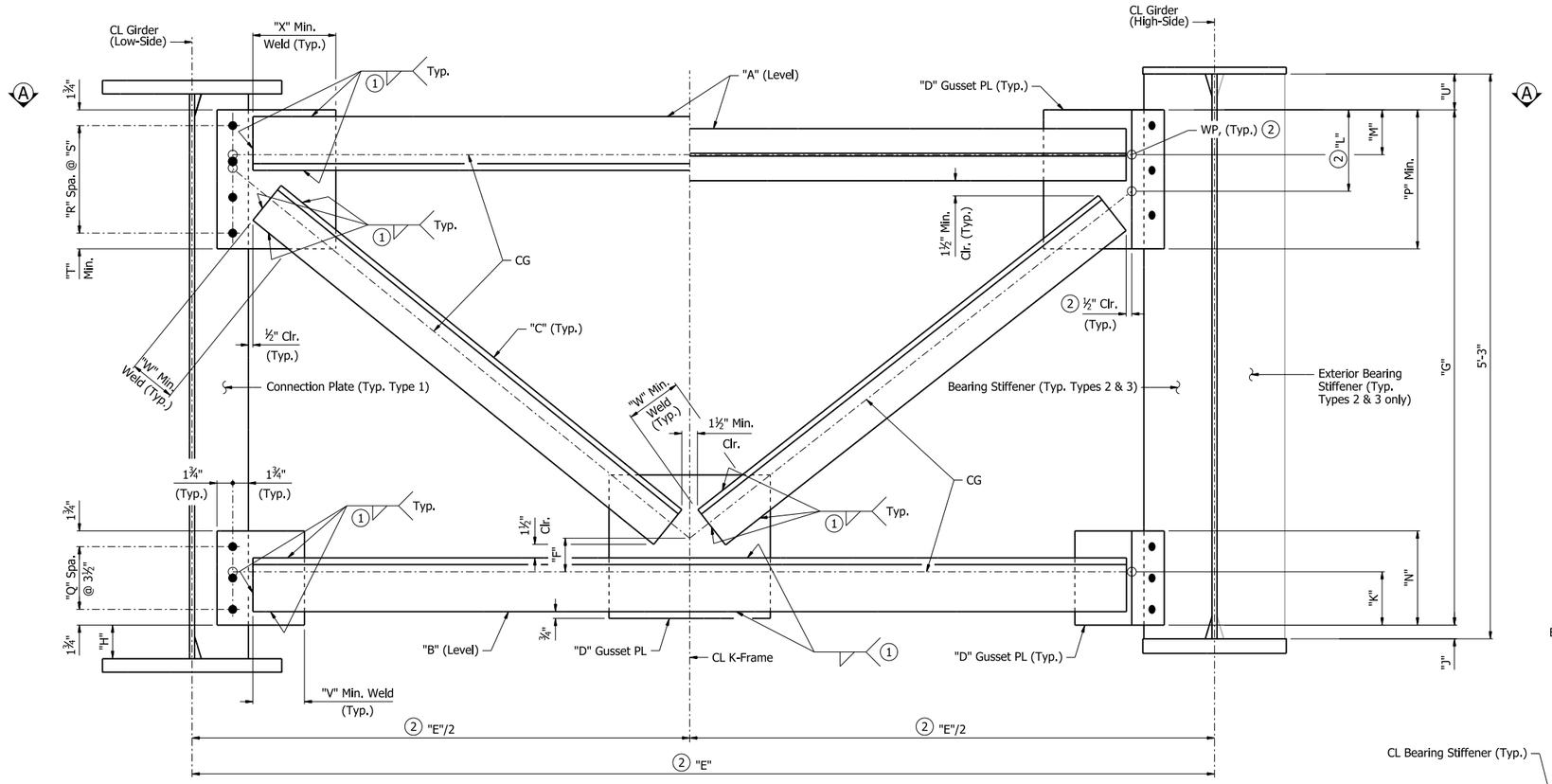
BRIDGE NO. A7693 & B7693 DRAWING NO. 68553

PRINT DATE: 3/16/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	443	742
		A7693 & B7693 - COMMON DETAILS - 68554				



TYPE 1

TYPES 2 & 3

DETAIL OF K-FRAMES

Notes:
All Structural Steel shall be ASTM A709, Grade 50 unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50)."

For location of A7693 K-Frames, see Dwg. No. 68546.

For location of B7693 K-Frames, see Dwg. No. 68549.

All bolts shall be ASTM F3125, Gr. A325, 1"Ø H.S. bolts.

All holes shall be drilled for K-Frames connection and shall be 1⅛"Ø.

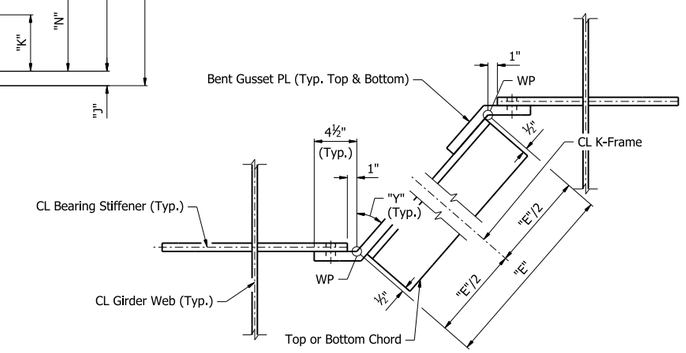
For Connection Plate and Bearing Stiffener details, see Dwg. No. 68555.

K-Frames are symmetric about CL, UNO.

Fabricator shall size gusset PL to satisfy minimum edge distances and clear distances. Gusset PL shape can be rectangular or incorporate clips as needed.

1 See "WELD TABLE", Std. Dwg. No. 55007.

2 See "SECTION A-A" for Types 2 & 3.



SECTION A-A
(Types 2 & 3 only)

TABLE OF VARIABLES

K-Frame Type	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"P"	"Q"	"R"	"S"	"T"	"U"	"V"	"W"	"X"	"Y"
1	L6x6x¾	L6x6x¾	L5x5x⅜	⅜"	9'-3"	4½"	4'-9½"	3¾"	1½"	5¾"	6"	5"	10½"	1'-3½"	2	3	4"	1¾"	4"	5¾"	4"	4½"	-
2	WT5x15	L6x6x⅞	L5x5x½	1"	13'-1 5/16"	5¾"	4'-6½"	Varies	3½"	5"	8¾"	3¾"	10½"	1'-3"	2	2	4¾"	3¾"	5"	5½"	4¼"	4"	35°59'26"
3	WT5x15	L5x5x⅜	L4x4x⅜	1"	12'-11 9/16"	4¾"	4'-6½"	Varies	3½"	4½"	8½"	3¾"	7"	1'-2"	1	2	4¾"	2¾"	5"	4"	4"	4"	35°05'47"

STATE OF ARKANSAS
Allie Wagner
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 3 OF 4
COMMON DETAILS OF CONTINUOUS
PLATE GIRDER UNITS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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SCALE: 1½" = 1'-0"

BRIDGE NO. A7693 & B7693 DRAWING NO. 68554

PRINT DATE: 4/13/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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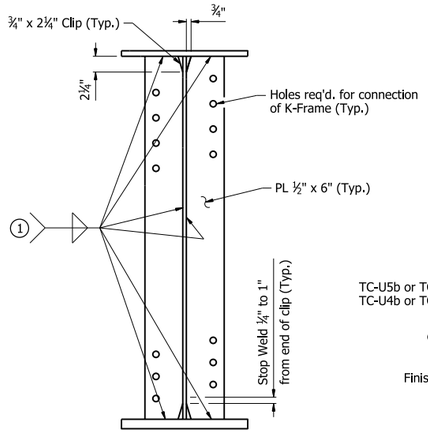
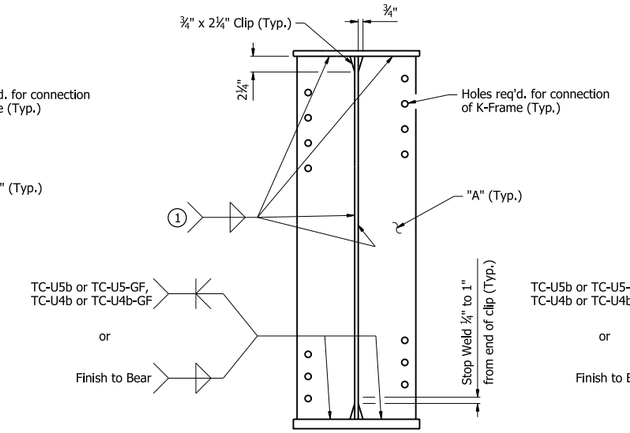
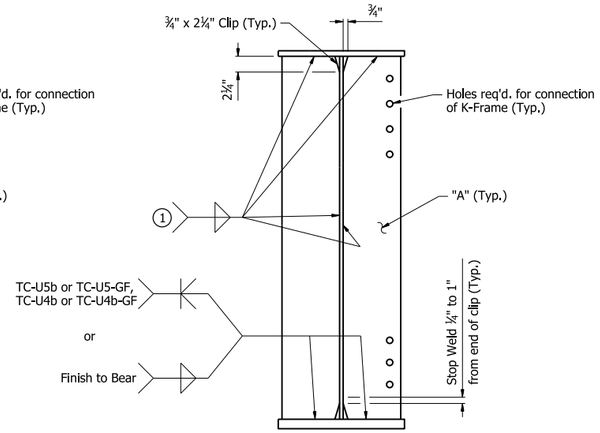
		A7693 & B7693 - COMMON DETAILS - 68555				



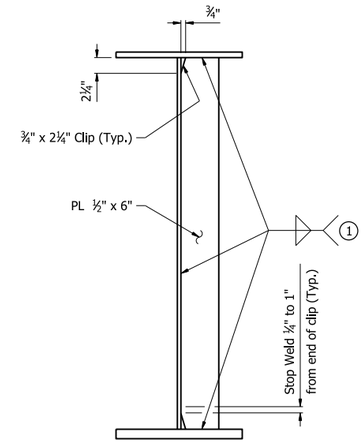
CONNECTION PLATES
(Located at K-Frame Type 1)
1" = 1'-0"



BEARING STIFFENERS AT INTERIOR GIRDERS
(Located at K-Frame Types 2 & 3)
1" = 1'-0"



BEARING STIFFENERS AT EXTERIOR GIRDERS
(Located at K-Frame Types 2 & 3)
1" = 1'-0"



TRANSVERSE STIFFENER
1" = 1'-0"

Notes:
All Structural Steel shall be ASTM A709, Grade 50 unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-GR50)."

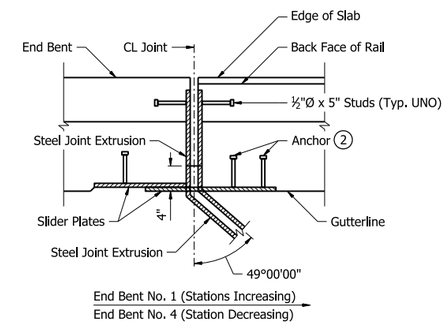
For location of A7693 stiffeners and connection plates, see Dwg. No. 68546.

For location of B7693 stiffeners and connection plates, see Dwg. No. 68549.

For details of K-Frames, see Dwg. No. 68554.

For "Standard Details For Neoprene Strip Seal Joints", see Std. Dwg. No 55009.

(1) See "WELD TABLE" for minimum weld sizes on Std. Dwg. No. 55007.



JOINT PLAN AT END BENTS
(Replaces "SECTION B-B" on Std. Dwg. No. 55009)
No Scale

(2) The method of attachment of the slider plate assembly shall allow for removal to provide for future replacement of the neoprene seal. Anchors shall not be paid for directly, but shall be considered subsidiary to the item "Armored Joint with Neoprene Strip Seal".

Method of installation and fabrication shall be determined by the Manufacturer.

TABLE OF BEARING STIFFENERS

Bent No.	"A"
1 & 4	PL ¾" x 7⅝"
2 & 3	PL ⅞" x 9⅜"

TABLE OF STRIP SEAL JOINT DATA

Bent No.	Movement Rating (Inch)	"A" - Width perpendicular to joint at 24 hour average temperature of:			"B" - Width perpendicular to joint at 24 hour average temperature of:			"C" Width Perpendicular to Joint at 24 Hour Average Temperature of:
		40° F	60° F	80° F	40° F	60° F	80° F	60° F
1	4"	1 7/16"	1¼"	1 1/16"	1 15/16"	1¾"	1 9/16"	3"
4	4"	1 7/16"	1¼"	1 1/16"	1 15/16"	1¾"	1 9/16"	3"

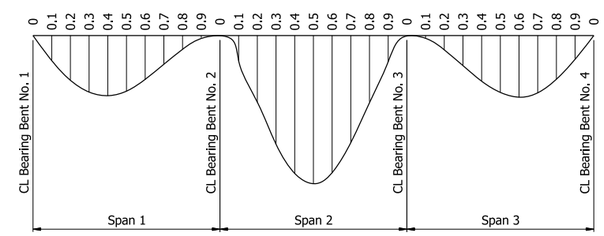
The temperature used to set the joint opening shall be the approximate average air temperature during the 24 hour period immediately before the bolts are tightened. The Engineer shall establish the temperature. Interpolation of the table may be necessary. Installation is limited to 40° F min. and 80° F max.

TABLE OF DEAD LOAD DEFLECTIONS (INCHES)

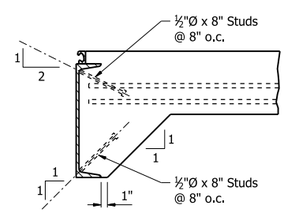
Span	Point of Deflection	Structural Steel					Structural Steel + Slab					Structural Steel + Slab + Rail				
		Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5
Span 1	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.1	0.084	0.087	0.088	0.087	0.084	0.381	0.410	0.417	0.407	0.376	0.475	0.434	0.415	0.419	0.466
	0.2	0.155	0.158	0.160	0.157	0.149	0.697	0.744	0.755	0.736	0.673	0.866	0.784	0.753	0.762	0.836
	0.3	0.196	0.201	0.203	0.199	0.192	0.885	0.949	0.962	0.936	0.864	1.098	0.995	0.958	0.975	1.079
	0.4	0.210	0.215	0.217	0.212	0.203	0.950	1.017	1.029	0.997	0.917	1.179	1.059	1.022	1.046	1.156
	0.5	0.195	0.200	0.201	0.196	0.187	0.883	0.949	0.957	0.924	0.846	1.099	0.978	0.947	0.977	1.079
	0.6	0.156	0.160	0.161	0.156	0.148	0.707	0.765	0.768	0.739	0.670	0.886	0.777	0.756	0.788	0.871
	0.7	0.101	0.105	0.105	0.101	0.095	0.464	0.506	0.506	0.483	0.432	0.589	0.503	0.493	0.521	0.578
	0.8	0.048	0.050	0.050	0.047	0.043	0.227	0.250	0.247	0.233	0.201	0.295	0.237	0.235	0.256	0.287
	0.9	0.009	0.009	0.009	0.008	0.007	0.047	0.056	0.054	0.047	0.039	0.068	0.043	0.046	0.056	0.071
	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Span 2	0.1	0.091	0.092	0.094	0.095	0.094	0.365	0.378	0.388	0.391	0.379	0.446	0.422	0.403	0.401	0.443
	0.2	0.230	0.233	0.236	0.237	0.235	0.934	0.973	0.994	0.995	0.961	1.130	1.067	1.029	1.036	1.131
	0.3	0.372	0.377	0.381	0.381	0.376	1.527	1.588	1.619	1.611	1.548	1.833	1.724	1.672	1.695	1.826
	0.4	0.477	0.483	0.487	0.485	0.481	1.969	2.045	2.080	2.060	1.990	2.346	2.202	2.147	2.185	2.350
	0.5	0.517	0.521	0.525	0.521	0.517	2.139	2.216	2.246	2.215	2.140	2.536	2.368	2.318	2.367	2.535
	0.6	0.481	0.485	0.487	0.483	0.477	1.989	2.061	2.080	2.045	1.970	2.350	2.186	2.147	2.201	2.346
	0.7	0.376	0.381	0.381	0.377	0.372	1.548	1.612	1.619	1.588	1.528	1.826	1.696	1.673	1.723	1.832
	0.8	0.235	0.237	0.236	0.233	0.230	0.960	0.995	0.994	0.973	0.934	1.131	1.036	1.029	1.067	1.129
	0.9	0.094	0.095	0.094	0.092	0.091	0.379	0.391	0.388	0.379	0.365	0.443	0.401	0.403	0.422	0.446
	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Span 3	0.1	0.007	0.008	0.009	0.009	0.009	0.039	0.047	0.053	0.056	0.047	0.071	0.056	0.045	0.043	0.068
	0.2	0.043	0.047	0.050	0.050	0.048	0.201	0.232	0.246	0.249	0.225	0.287	0.255	0.234	0.236	0.292
	0.3	0.095	0.101	0.105	0.105	0.101	0.433	0.483	0.506	0.506	0.465	0.580	0.521	0.492	0.502	0.589
	0.4	0.148	0.156	0.161	0.160	0.155	0.670	0.738	0.767	0.763	0.707	0.872	0.787	0.755	0.776	0.886
	0.5	0.187	0.196	0.201	0.200	0.195	0.846	0.925	0.956	0.948	0.884	1.079	0.977	0.946	0.977	1.100
	0.6	0.205	0.214	0.219	0.217	0.212	0.926	1.006	1.036	1.024	0.959	1.166	1.056	1.030	1.066	1.189
	0.7	0.192	0.199	0.203	0.201	0.197	0.863	0.936	0.961	0.947	0.889	1.079	0.975	0.957	0.993	1.103
	0.8	0.149	0.157	0.160	0.158	0.154	0.673	0.736	0.755	0.743	0.697	0.836	0.763	0.752	0.782	0.866
	0.9	0.084	0.087	0.088	0.087	0.084	0.377	0.407	0.417	0.409	0.381	0.467	0.419	0.415	0.433	0.475
	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Notes:
Camber for dead load deflection +/- ¼" tolerance. Deflections shown are along CL Girder from a chord from CL Bearing to CL Bearing. Negative sign (-) indicates point above chord. Vertical curve corrections are not included. Superelevation transition corrections not included.

The additional weight for the permanent steel deck forms are included in the slab dead load deflections. Revisions to the deflection tables may be necessary upon review of the Contractor's submitted forming details.

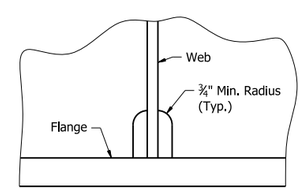


DEAD LOAD DEFLECTION DIAGRAM
No Scale



Note:
As an alternate to ⅝"Ø studs, ½"Ø x 8" studs spaced as shown may be used. Use weight of ⅝"Ø stud as basis of measurement of structural steel in anchors.

DETAILS OF ALTERNATE ANCHORS
1" = 1'-0"



Height and width of clip shall be as noted in other details.

ALTERNATIVE CLIP DETAIL
No Scale
(For Bearing Stiffeners, Transverse Stiffeners, and Cross-frame Connection Plates)

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 4 OF 4
COMMON DETAILS OF CONTINUOUS
PLATE GIRDER UNITS
I-49 OVER HENRY RD.
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

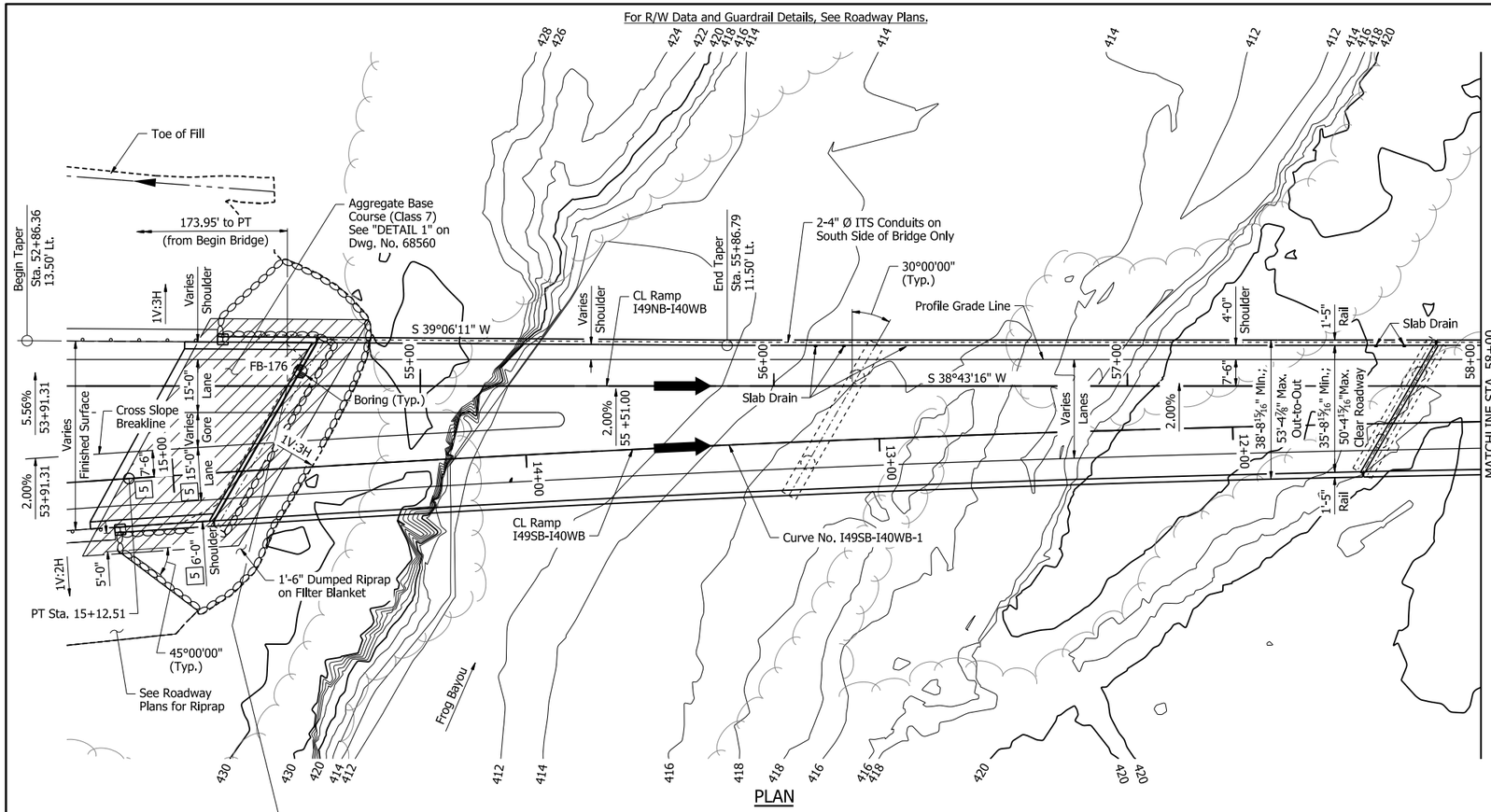
DRAWN BY: CTK DATE: 7/19/24
CHECKED BY: CZ DATE: 7/24/24
DESIGNED BY: CZ DATE: 4/03/24
FILENAME: b040904m8_sc4.dgn
SCALE: AS NOTED

BRIDGE NO. A7693 & B7693 DRAWING NO. 68555

PRINT DATE: 4/10/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	445	742
		07694 - BRIDGE LAYOUTS - 68556				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

Notes:
Use Type F Approach Gutters & Type F Approach Slab (width "W", measured normal to CL Ramp I49NB-I40WB, Varies (48'-8⅞" Max., 46'-5⅛" Min.)) at beginning of bridge. Modify Type F Approach Slab to accommodate flare. Adjust length of reinforcing and add bar laps as necessary. See Std. Dwg. No. 55040F1 for details.

For ITS Conduit Details, see Dwg. No. 68598.

For Details of Deck Drainage, see Dwg. No. 68596.

For General Notes, see Dwg. No. 68476.

DETAIL DRAWINGS:	DRAWING NO(S).
End Bents	68559-68566
Intermediate Bents	68567-68572
Elastomeric Bearings	68599 & 68600
317' Continuous Plate Girder Unit	68573-68582
330' Continuous Plate Girder Unit	68583-68590
Finger Joint Details	68594 & 68595
General Notes for Steel Bridge Structures	68476 & 55006
Details For Steel Bridge Structures	55007
Poured Silicone Joints	55008
Steel H-Piling	55020

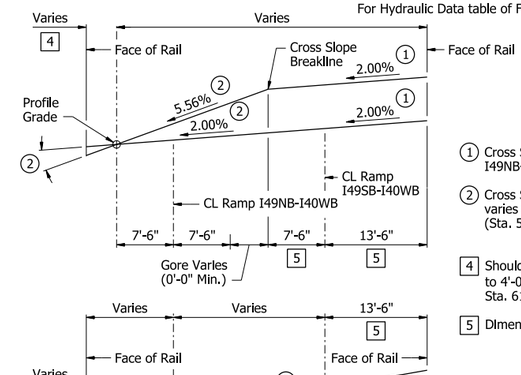
Longitudinal curved lane lines are constructed on curves concentric to CL Ramp I49SB-I40WB.

All bents are skewed 30°00'00" to CL Ramp I49NB-I40WB.

For Hydraulic Data table of Frog Bayou, see Dwg. No. 68557.

HORIZONTAL CURVE DATA - CURVE NO. I-49SB-I40WB-1

PI = 12+56.35
△ = 3°50'38" Lt.
D = 0°45'00"
T = 256.35'
L = 512.51'
R = 7639.44'
PC = 10+00.00
PT = 15+12.51

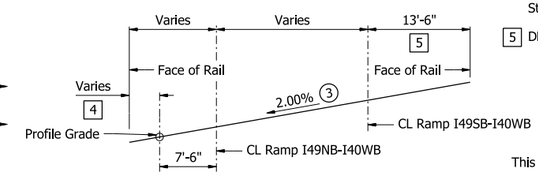


1 Cross Slope is constant 2.00% normal to CL Ramp I49NB-I40WB (Sta.53+91.31 to Sta. 55+51.00)

2 Cross Slope is normal to CL Ramp I49NB-I40WB, varies from 5.56% (Sta. 53+91.31) to 2.00% (Sta. 55+51.00)

4 Shoulder varies from 4'-11½" (Sta. 54+42.64) to 4'-0" (Sta. 55+86.79), 4'-0" (Sta. 55+86.79 to Sta. 61+39.39)

5 Dimensions are normal to CL Ramp I49SB-I40WB

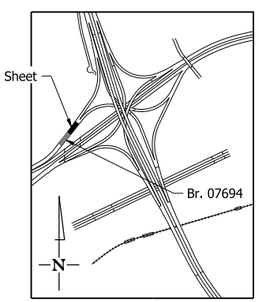


3 Cross Slope is constant 2.00% normal to CL Ramp I49NB-I40WB (Sta. 55+51.00 to Sta. 61+81.00)

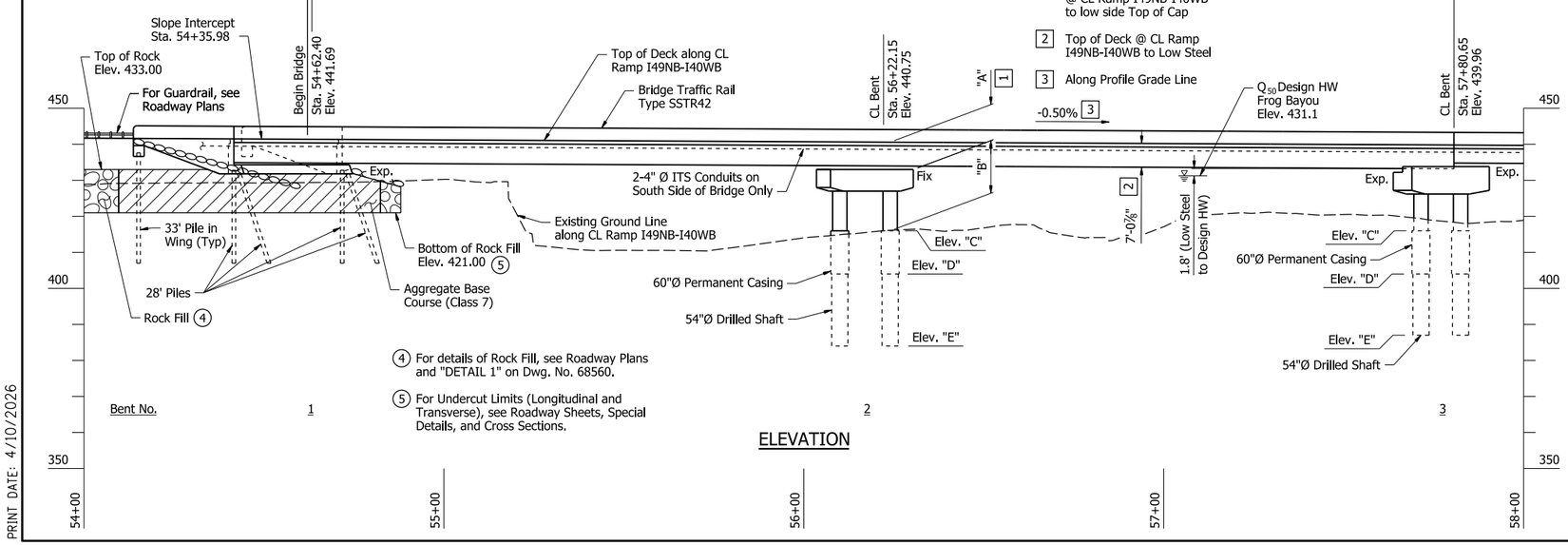
SUPERELEVATION DIAGRAM
Looking Ahead

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 2	8'-1"	16'-8"	416.00	404.00	385.00
Bent No. 3	8'-0⅛"	15'-11⅜"	416.00	404.00	387.00



SITE PLAN
No Scale



1 Top of Deck @ CL Bent @ CL Ramp I49NB-I40WB to low side Top of Cap

2 Top of Deck @ CL Ramp I49NB-I40WB to Low Steel

3 Along Profile Grade Line

4 For details of Rock Fill, see Roadway Plans and "DETAIL 1" on Dwg. No. 68560.

5 For Undercut Limits (Longitudinal and Transverse), see Roadway Sheets, Special Details, and Cross Sections.

ELEVATION

Note:
Stations shown are along CL Ramp I49NB-I40WB. Elevations shown are actual top of deck elevations at CL Ramp I49NB-I40WB. Any vertical dimension referenced to CL Ramp I49NB-I40WB is based on actual top of deck elevation at CL Ramp I49NB-I40WB, unless notes otherwise.

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19996 BRENT T. JONES

Brent T. Jones 5/4/26
BRIDGE ENGINEER

SHEET 1 OF 2
LAYOUT OF BRIDGE
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

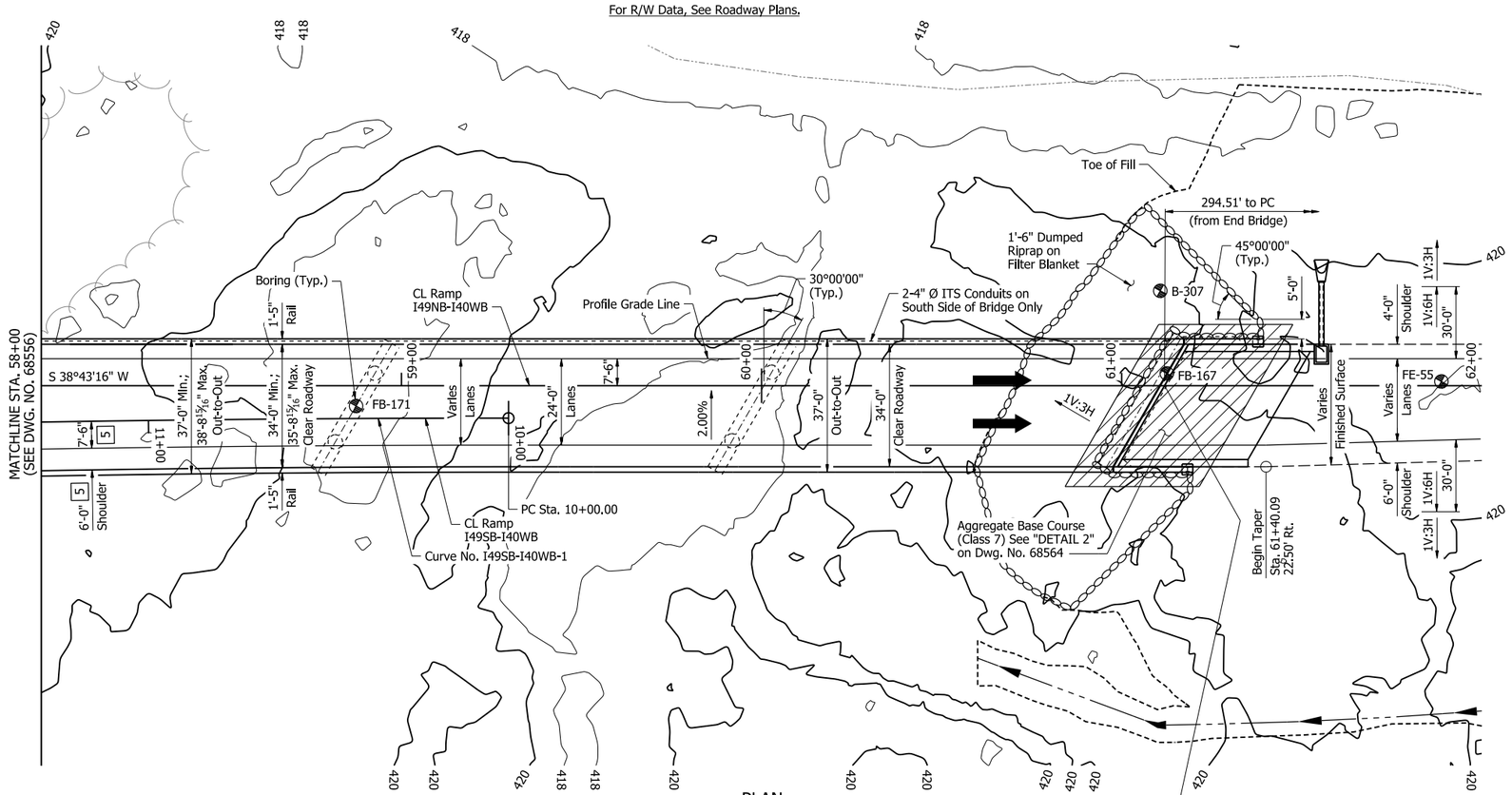
DRAWN BY: BNG DATE: 5/24/22
CHECKED BY: BTJ DATE: 9/8/24
DESIGNED BY: BTJ DATE: 5/10/22
FILENAME: b040904x14_I1.dgn
SCALE: 1" = 20'-0"

BRIDGE NO. 07694 DRAWING NO. 68556

PRINT DATE: 4/10/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	446	742
		07694 - BRIDGE LAYOUTS - 68557				

For R/W Data, See Roadway Plans.



Total Length of Bridge = 649'-6"

330'-0" Continuous Plate Girder Unit No. 2 (110' - 110' - 110')

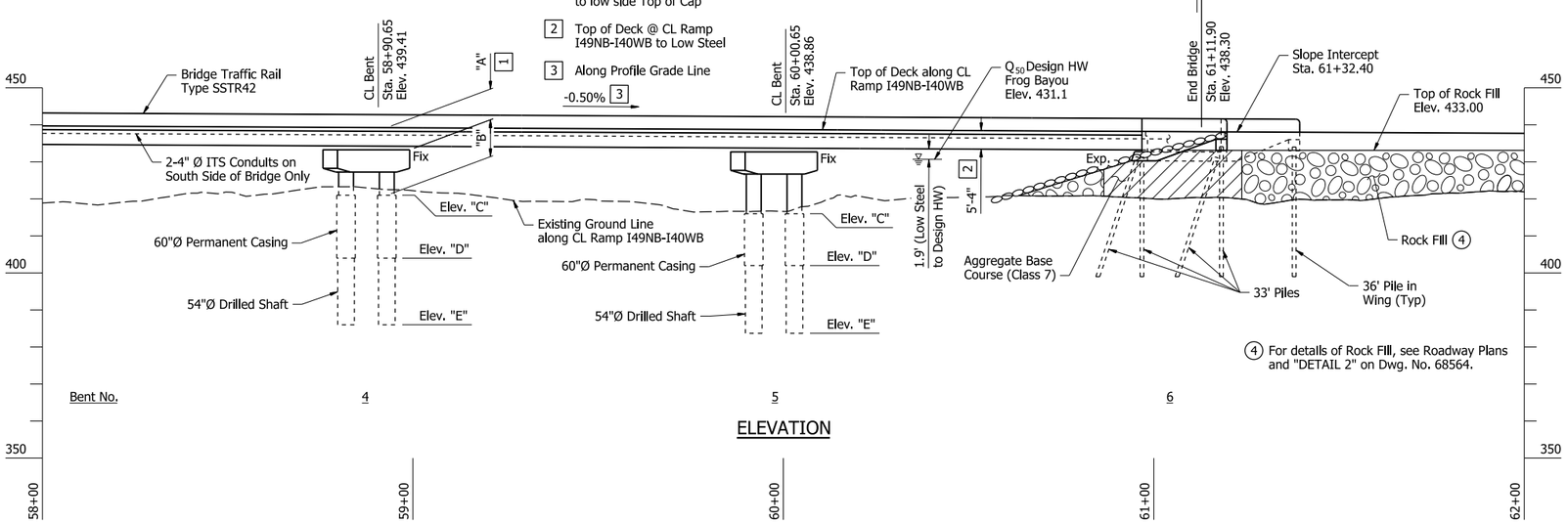
1'-3"

CL 2" Poured Silicone Joint

1 Top of Deck @ CL Bent @ CL Ramp I49NB-I40WB to low side Top of Cap

2 Top of Deck @ CL Ramp I49NB-I40WB to Low Steel

3 Along Profile Grade Line



4 For details of Rock Fill, see Roadway Plans and "DETAIL 2" on Dwg. No. 68564.

Notes:
Use Type F Approach Gutters & Type F Approach Slab (width, "W" = 30'-0") at end of bridge. Adjust gutter length as necessary when drop inlet is present.

For General Notes, see Dwg. No. 68476.

Longitudinal curved lane lines are constructed on curves concentric to CL Ramp I49SB-I40WB.

All bents are skewed 30°00'00" to CL Ramp I49NB-I40WB.

For ITS Conduit Details, see Dwg. No. 68598.

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	DISCHARGE	2 NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	FEET	FEET
Design	50	46,300	429.5	431.1
Base	100	53,700	430.6	432.5
Extreme	500	64,000	432.6	434.1
Overtopping	>500	NA	NA	NA

2 Unconstricted water surface without structure or roadway approaches.

Proposed Bridge Low Chord Elevation Unit 1 = 432.88 at Station 57+82.96

Proposed Bridge Low Chord Elevation Unit 2 = 432.97 at Station 61+10.46

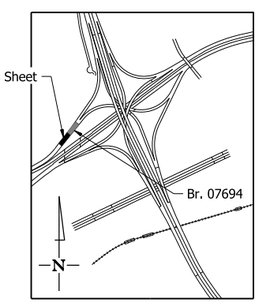
Drainage Area = 232 square miles.

5 Dimensions are normal to CL Ramp I49SB-I40WB

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 4	6'-2⅞"	12'-2⅛"	421.00	404.00	386.00
Bent No. 5	6'-3"	16'-7⅜"	416.00	402.00	384.00

Note:
Stations shown are along CL Ramp I49NB-I40WB. Elevations shown are actual top of deck elevations at CL Ramp I49NB-I40WB. Any vertical dimension referenced to CL Ramp I49NB-I40WB is based on actual top of deck elevation at CL Ramp I49NB-I40WB, unless noted otherwise.



SITE PLAN
No Scale

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 2
LAYOUT OF BRIDGE
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: BNG DATE: 5/24/22
CHECKED BY: BTJ DATE: 9/8/24
DESIGNED BY: BTJ DATE: 5/10/22
FILENAME: b040904x14_l2.dgn
SCALE: 1" = 20'-0"

BRIDGE NO. 07694 DRAWING NO. 68557

PRINT DATE: 4/10/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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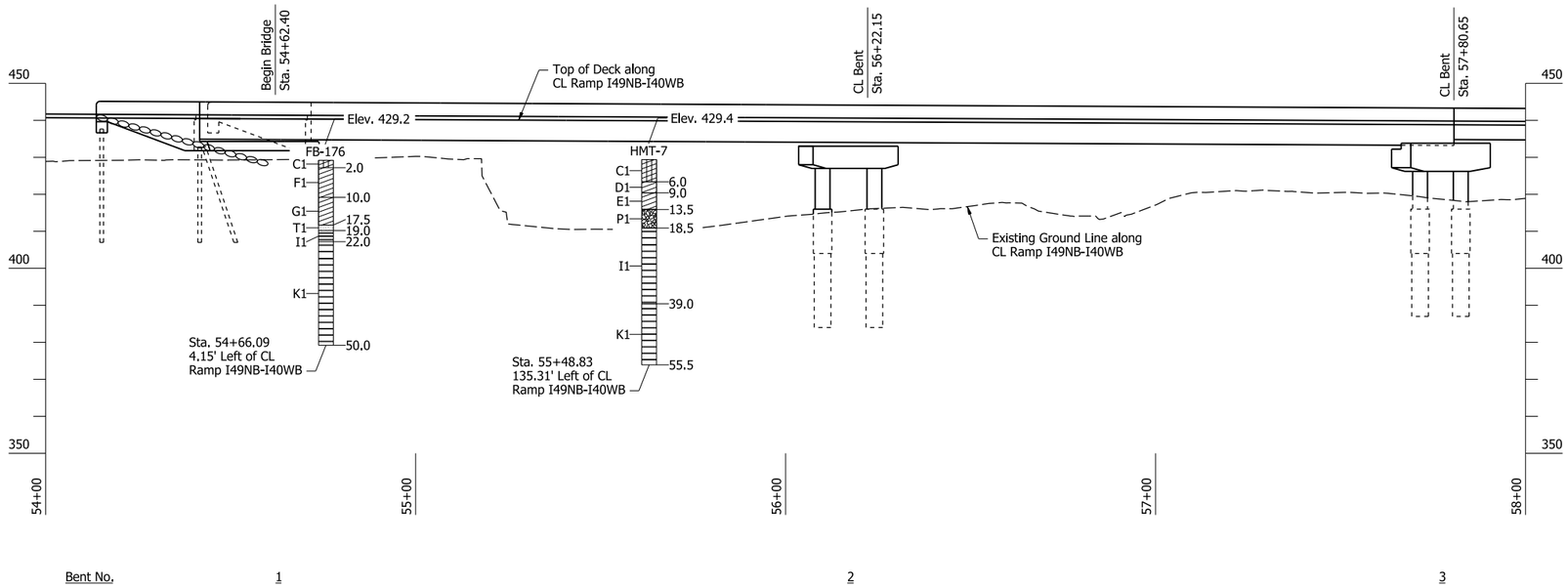
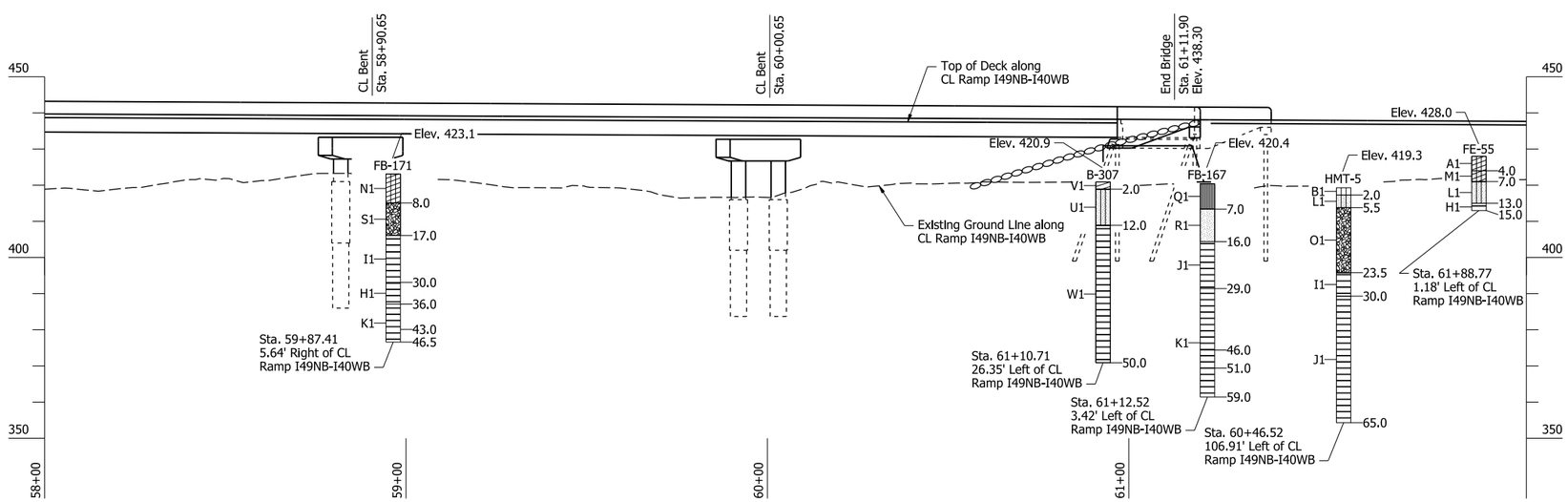
		07694 - BRIDGE LAYOUTS - 68558				



ELEVATION OF SOIL BORINGS



ELEVATION OF SOIL BORINGS

"N" VALUES

FE-55 - Sta. 61+88.77, 1.18' Left of CL Ramp I49NB-I40WB

0.5-1.5	N=5
2.5-3.5	N=5
4.5-5.5	N=8
6.5-7.5	N=32
9.0-10.0	N=50/7"
14.0-15.0	N=50/2"

FB-167 - Sta. 61+12.52, 3.42' Left of CL Ramp I49NB-I40WB

0.5-1.5	N=7
2.5-3.5	N=10
4.5-5.5	N=7
6.5-7.5	N=27
9.0-10.0	N=21
14.0-15.0	N=50/3"
19.0-20.0	N=50/2"
24.0-25.0	N=50/4"
28.5-29.0	N=50/3"

FB-171 - Sta. 59+87.41, 5.64' Right of CL Ramp I49NB-I40WB

0.5-1.5	N=18
2.5-3.5	N=12
4.5-5.5	N=22
6.5-7.5	N=33
9.0-10.0	N=50/11"
14.0-15.0	N=27
19.0-20.0	N=50/6"
29.0-30.0	N=50/6"

HMT-5 - Sta. 60+46.52, 106.91' Left of CL Ramp I49NB-I40WB

0.5-1.5	N=8
2.5-3.5	N=32
4.5-5.5	N=50
6.5-7.5	N=50
9.0-10.0	N=10
13.5-14.0	N=50/8"
18.5-19.0	N=50/6"

HMT-7 - Sta. 55+48.83, 135.31' Left of CL Ramp I49NB-I40WB

0.5-1.5	N=7
2.5-3.5	N=4
6.5-7.5	N=3
9.0-10.0	N=5
14.0-15.0	N=5

FB-176 - Sta. 54+66.09, 4.15' Left of CL Ramp I49NB-I40WB

0.5-1.5	N=7
4.5-5.5	N=8
6.5-7.5	N=15
9.0-10.0	N=11
14.0-15.0	N=36

B-307 - Sta. 61+10.71, 26.35' Left of CL Ramp I49NB-I40WB

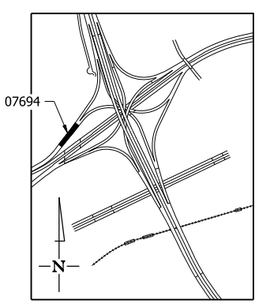
0.5-1.5	N=10
6.5-7.5	N=14
9.0-10.0	N=16
14.0-15.0	N=50/4"
19.0-20.0	N=50/2"

BORING LEGEND

A1	CL-ML-Soft clayey silt
B1	CL-ML-Firm brown clayey silt
C1	CL-ML-Soft to firm brown clayey silt
D1	CL-Very soft brown silty clay
E1	CL-Soft brown fine sandy clay
F1	CL-Firm brown silty clay
G1	CL-Stiff brown and tan silty clay
H1	SHALE-Low hardness dark gray weathered shale
I1	SHALE-Low hardness dark gray weathered shale w/some clayey shale partings and seams, horizontal bedding
J1	SHALE-Moderately hard dark gray shale, horizontal bedding
K1	SHALE-Moderately hard dark gray shale w/occassional gray fine-grained sandstone partings, horizontal bedding
L1	SM-Dense tan and brown silty fine sandy, slightly clayey
M1	SM-SC-Loose brown clayey fine sand w/some fine sand pockets and some sandstone fragments
N1	SC-SM-Medium dense reddish brown clayey fine sand
O1	GP-Dense brown and tan sandy fine to coarse gravel with some cobbles
P1	GP-Loose brown sandy fine to coarse gravels w/some cobbles
Q1	ML-Loose brown fine sandy silt w/occassional silt pockets
R1	SP-Medium dense brown and tan fine sand w/sandstone fragments and cobbles and shale fragments
S1	GP-GW-Dense to very dense tan sandy fine to coarse gravel w/some cobbles
T1	SANDSTONE-Low hardness to moderately hard tan and brown weathered fine-grained sandstone w/some clayey shale partings and seams, horizontal bedding
U1	SM-Medium dense reddish brown to tan silty fine sand, slightly clayey
V1	CL-Firm to stiff reddish brown silty clay
W1	SHALE-Moderately hard gray shale

Note:
Soil descriptions have been condensed for the purposes of this drawing.

Detailed soil information for individual borings can be found in the Final Geotechnical Report that is available upon request.



SITE PLAN
No Scale

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21612
MICHAEL J. L. DESTIGTER
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 1
ELEVATION OF SOIL BORINGS
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

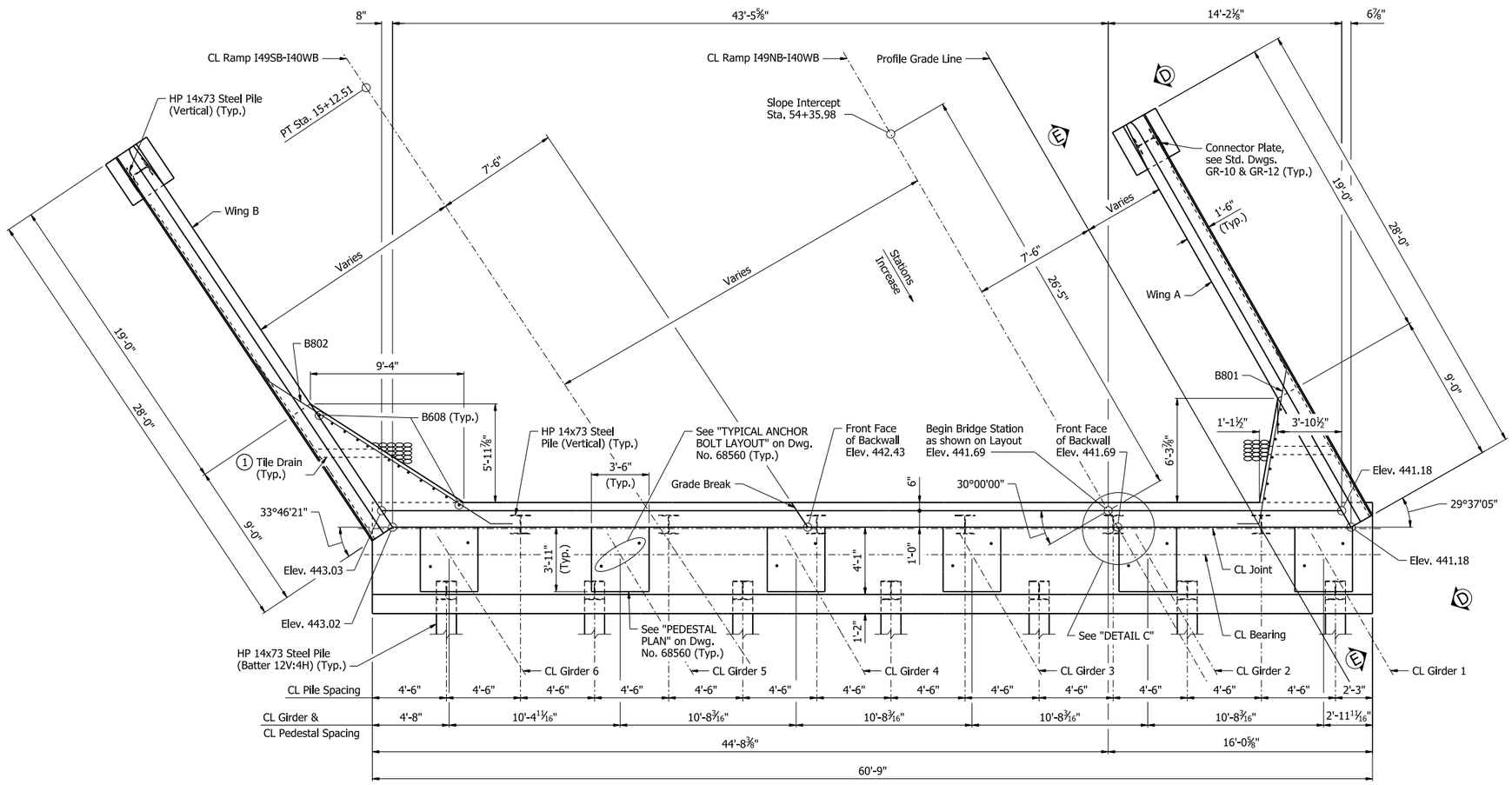
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JMM DATE: 9/13/24
CHECKED BY: ZTB DATE: 9/23/24
DESIGNED BY: MJD DATE: 9/11/24
FILENAME: b040904x14_l3.dgn
SCALE: 1" = 20'-0"

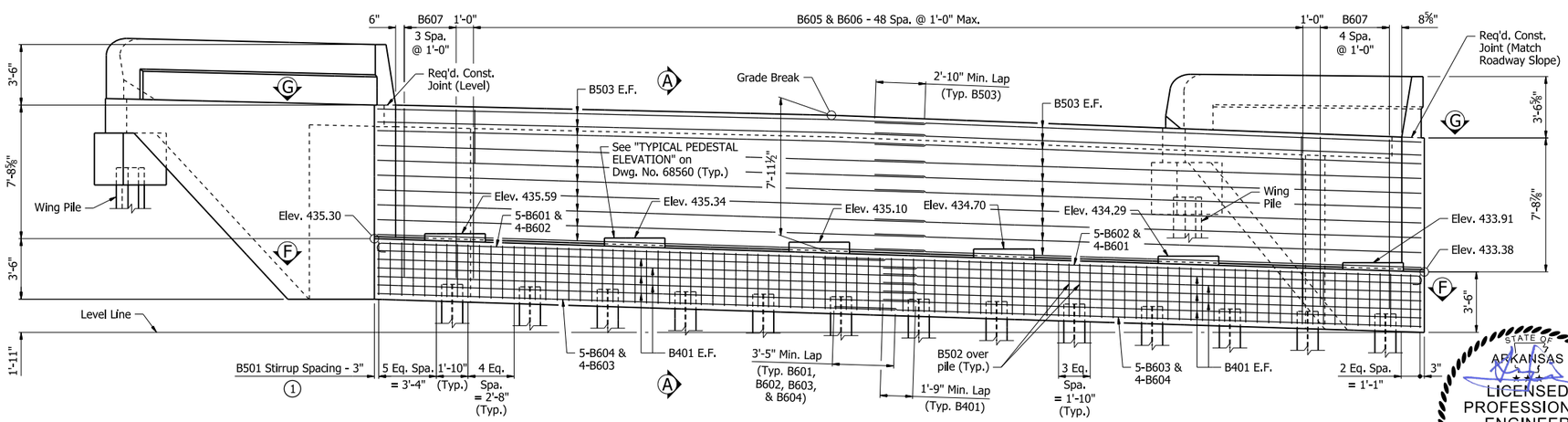
BRIDGE NO. 07694 DRAWING NO. 68558

PRINT DATE: 3/31/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	448	742
		07694 - END BENTS - 68559				



PLAN - BENT NO. 1



ELEVATION - BENT NO. 1

Looking Backstation

1 Contractor shall adjust B501 & B502 bar spacing to accommodate anchor bolts or sheet metal sleeves. B501 & B502 bars may be shifted up to one bar space or bundled with a neighboring stirrup. In no case shall the space between neighboring sets of stirrups exceed twice the detailed spacing.

Notes:
For General Notes, see Dwg. No. 68476.

All piling shall be HP14x73 (AASHTO M 270, Gr. 50). See Std. Dwg. No. 55020 for additional details.

For "SECTION A-A", see Dwg. No. 68560.

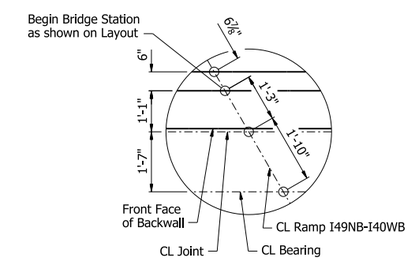
For "VIEW D-D", "VIEW E-E", "SECTION F-F", & VIEW G-G", see Dwg. No. 68561.

Structural Steel in end bents shall be ASTM A709, Gr. 50W unless noted otherwise, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)".

Top of backwall surface finish shall match that used on the bridge deck.

Class 2 Protective Surface Treatment shall be applied to the roadway face and top of the wing rails, and the top of the backwall.

1 Place 6" Ø tile drains approx. 6" above fill slope. Spread bars as required. Place 6 cu. ft. of sacked ¾" crushed rock or gravel at each drain. All work and materials to install drains shall be subsidiary to "Class S Concrete".



DETAIL C

No Scale

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 4
DETAILS OF END BENT NO. 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

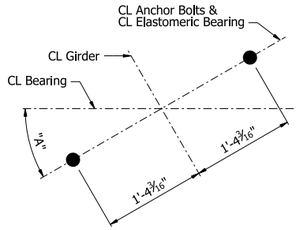
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 6/27/24
CHECKED BY: CPS DATE: 7/25/24
DESIGNED BY: QL DATE: 5/8/24
FILENAME: b040904x14_b11.dgn
SCALE: ¼" = 1'-0"

BRIDGE NO. 07694 DRAWING NO. 68559

PRINT DATE: 4/8/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	449	742
		07694 - END BENTS - 68560				

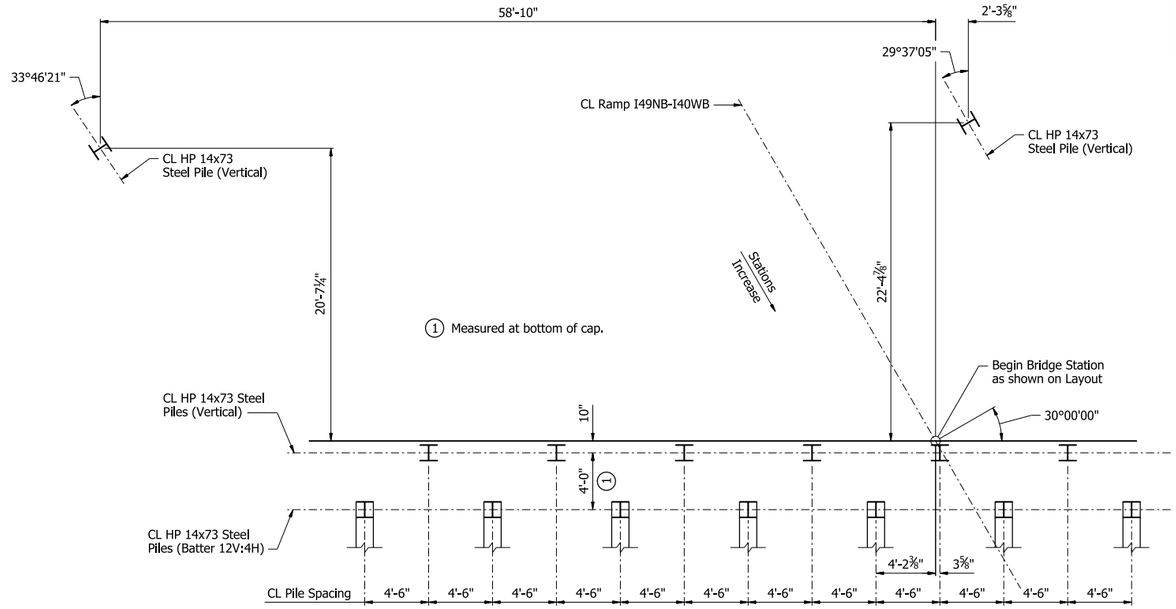


TYPICAL ANCHOR BOLT LAYOUT

1" = 1'-0"

TABLE OF VARIABLES

Girder	"A"
1	30°00'00"
2	30°00'00"
3	30°00'00"
4	30°00'00"
5	31°18'16"
6	32°27'28"



LAYOUT OF PILES

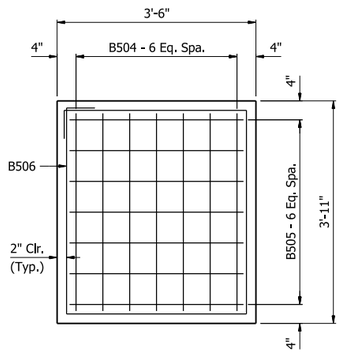
No Scale

Notes:
For "DETAILS OF ELASTOMERIC BEARINGS", see Dwg. Nos. 68599 & 68600.

For Joint Details, see Std. Dwg. No. 55008.

No portion of the backwall shall be poured before girders are in place. The portion of the backwall above the optional construction joint at the paving bracket shall not be placed until the adjacent deck pour has been made, Refer to the "EXPANSION DEVICE INSTALLATION AT END BENTS" note on Std. Dwg. No. 55008. No heavy construction equipment shall be allowed within 10' of the backwall before the deck concrete placement for the adjacent span has been completed.

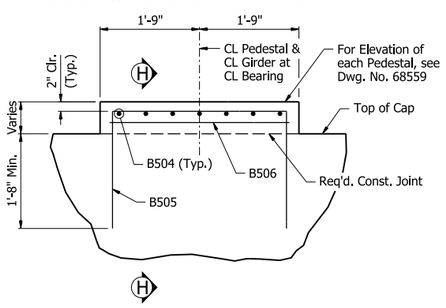
For "DETAIL 1" location, see Dwg. No. 68556.



TYPICAL PEDESTAL PLAN

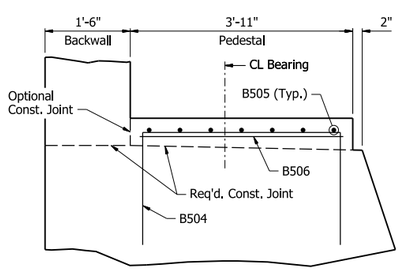
¾" = 1'-0"

Note:
Contractor shall adjust B504 & B505 bar spacing to accommodate anchor bolts and sheet metal sleeves.



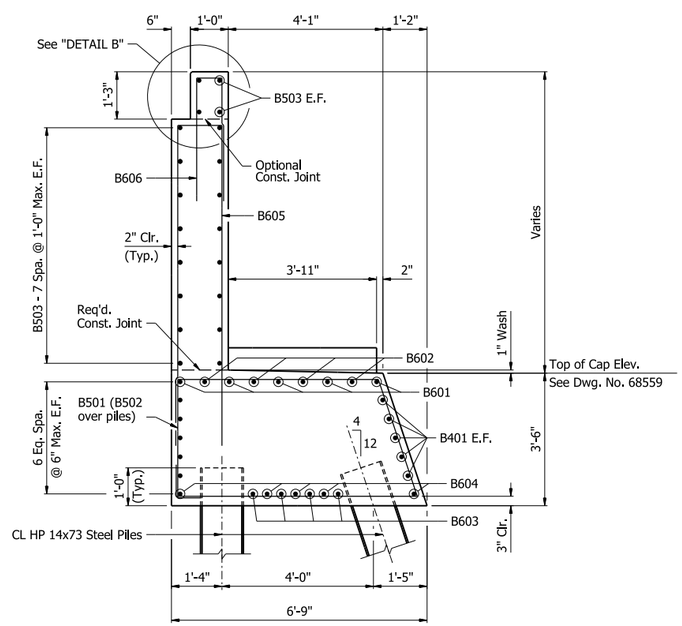
TYPICAL PEDESTAL ELEVATION

¾" = 1'-0"



SECTION H-H

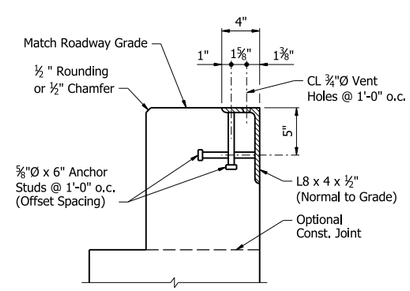
¾" = 1'-0"



SECTION A-A

½" = 1'-0"

Note:
Contractor shall adjust B601 & B602 bar spacing to accommodate anchor bolts or sheet metal sleeves. Contractor shall maintain a minimum spacing of 3" and maximum spacing of 11".



DETAIL B

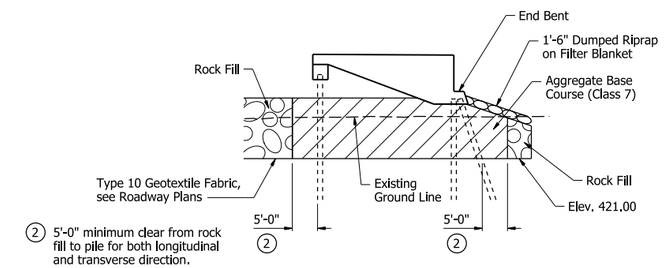
No Scale

Notes:
Transverse spacing between vertical anchor studs and vent holes shall be 6".

Concrete shall be hand-packed under the joint armor.

For additional joint details, see Std. Dwg. No. 55008.

The profile of the end bent angle shall be established based on the vertical curve in conjunction with the skew angle as shown on the layout.



Where rock fill is used for embankment construction, aggregate base course (Class 7), in accordance with Section 303.02, shall be placed as shown in areas where piling will be located. Aggregate base course (Class 7) shall be paid for as "Rock Fill".

At the Contractor's option, preboring or other methods as approved by the Engineer may be used to facilitate pile installation thru the aggregate base course (Class 7) material at these locations. Preboring or other methods used for installation of piles where rock fill is used for embankment construction will not be paid for separately, but shall be included in Item "Steel Piling".

Limits of rock fill shall begin at toe of end slope to CL Ramp I49NB-I40WB Sta. 52+30.00 = CL Ramp I49SB-I40WB Sta. 17+00.

For Undercut Limits(Longitudinal and Transverse), see Roadway Sheets, Special Details, and Cross Sections.

DETAIL 1

No Scale

STATE OF ARKANSAS
LICENSED
PROFESSIONAL
ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 4
DETAILS OF END BENT NO. 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY:	CEM	DATE:	6/27/24	FILENAME:	b040904x14_b12.dgn
CHECKED BY:	CPS	DATE:	7/25/24	SCALE:	AS NOTED
DESIGNED BY:	QL	DATE:	5/8/24		

BRIDGE NO. 07694 DRAWING NO. 68560

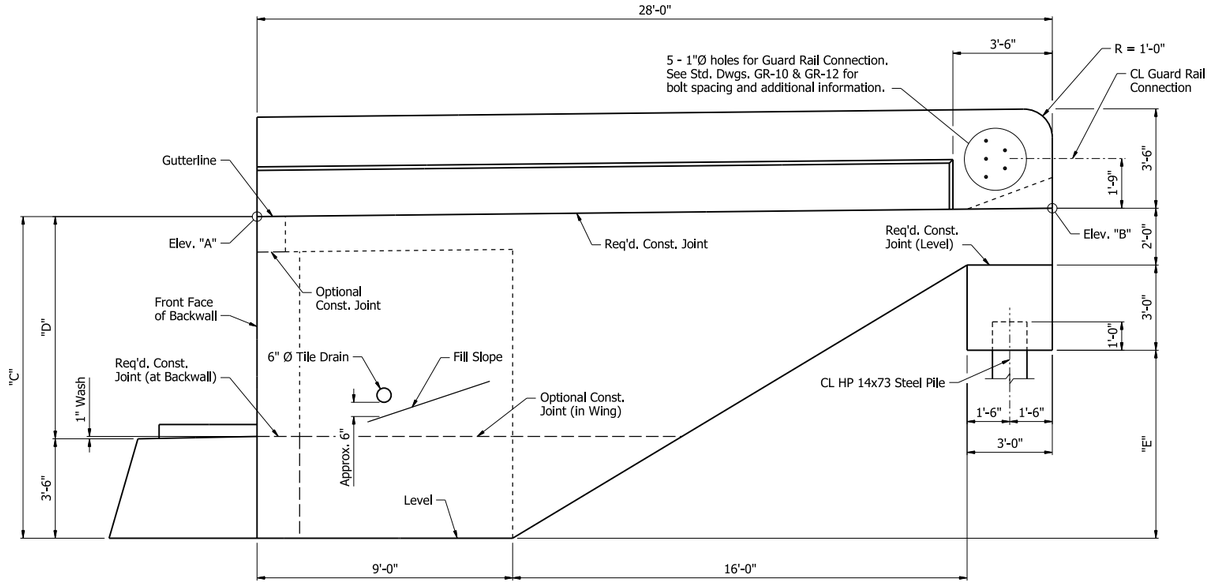
PRINT DATE: 4/7/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	450	742
		07694 - END BENTS - 68561				

TABLE OF VARIABLES

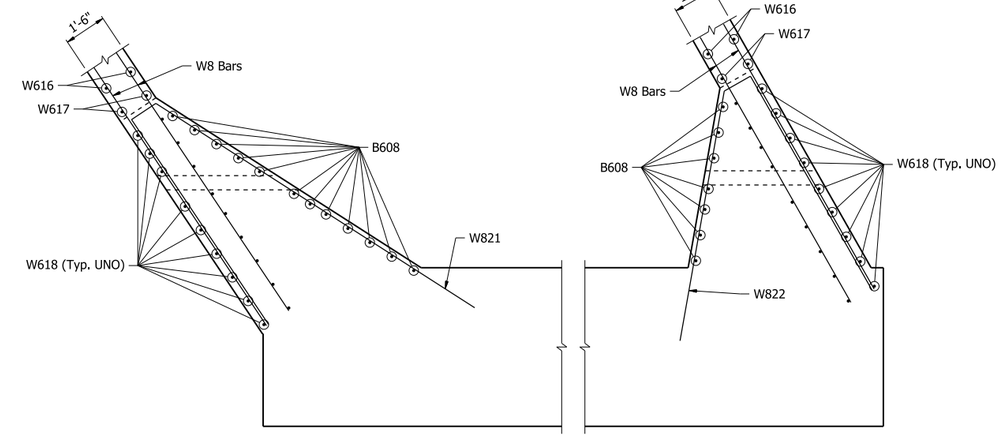
Wing	Elev. "A"	Elev. "B"	"C"	"D"	"E"
A	441.12	441.21	11'-2⅞"	7'-8⅞"	6'-4"
B	443.02	443.40	11'-2⅝"	7'-8⅝"	6'-7¼"

Notes:
For "SECTION J-J", "VIEW K-K", "SECTION L-L", & "SECTION M-M", see Dwg. No. 68562.



VIEW D-D

⅜" = 1'-0"
(Wing A shown; Wing B similar)

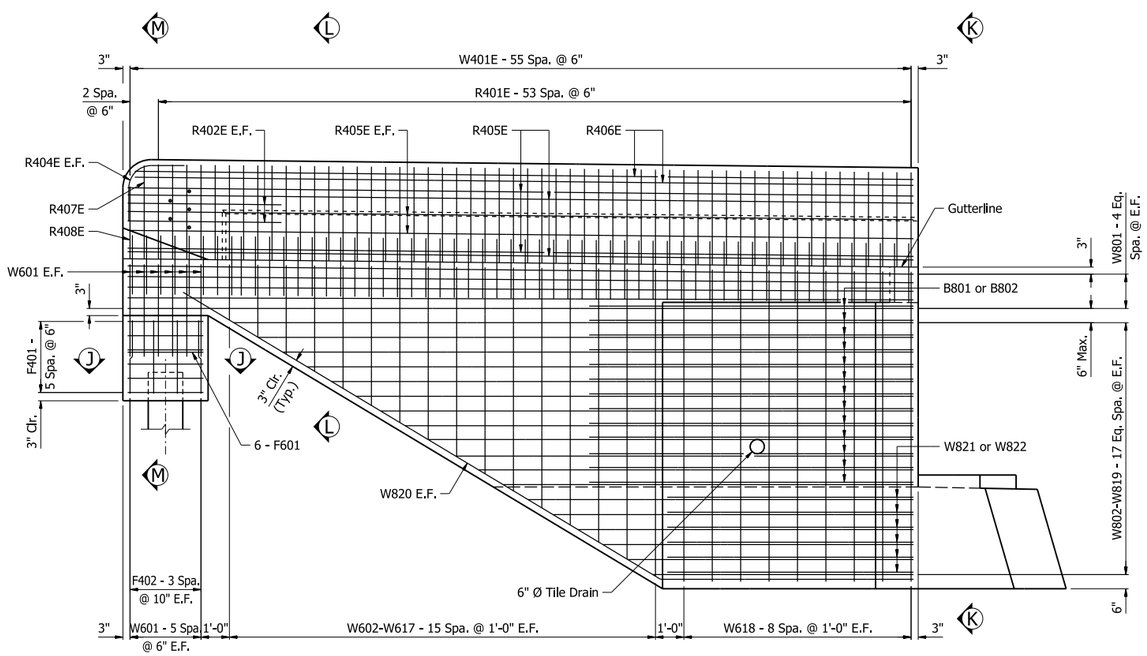


WING B

WING A

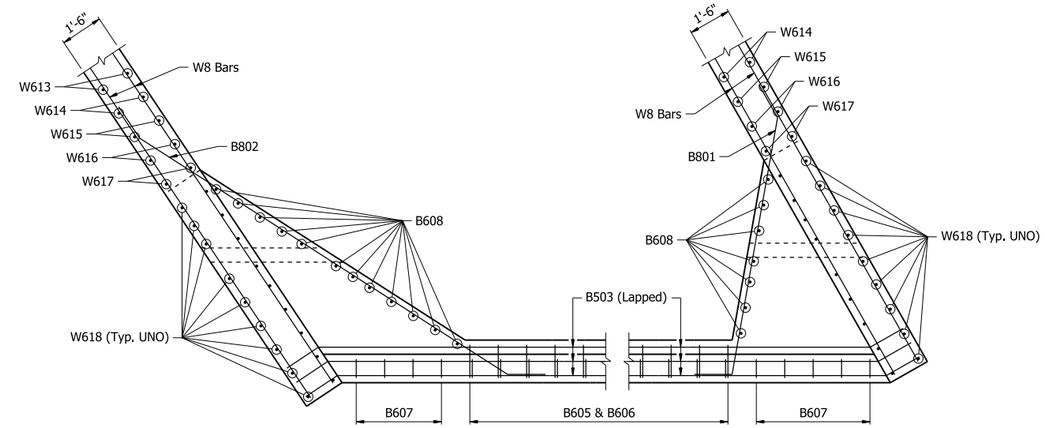
SECTION F-F

⅜" = 1'-0"



VIEW E-E

⅜" = 1'-0"
(Wing A shown; Wing B similar)



WING B

WING A

VIEW G-G

⅜" = 1'-0"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 3 OF 4
DETAILS OF END BENT NO. 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

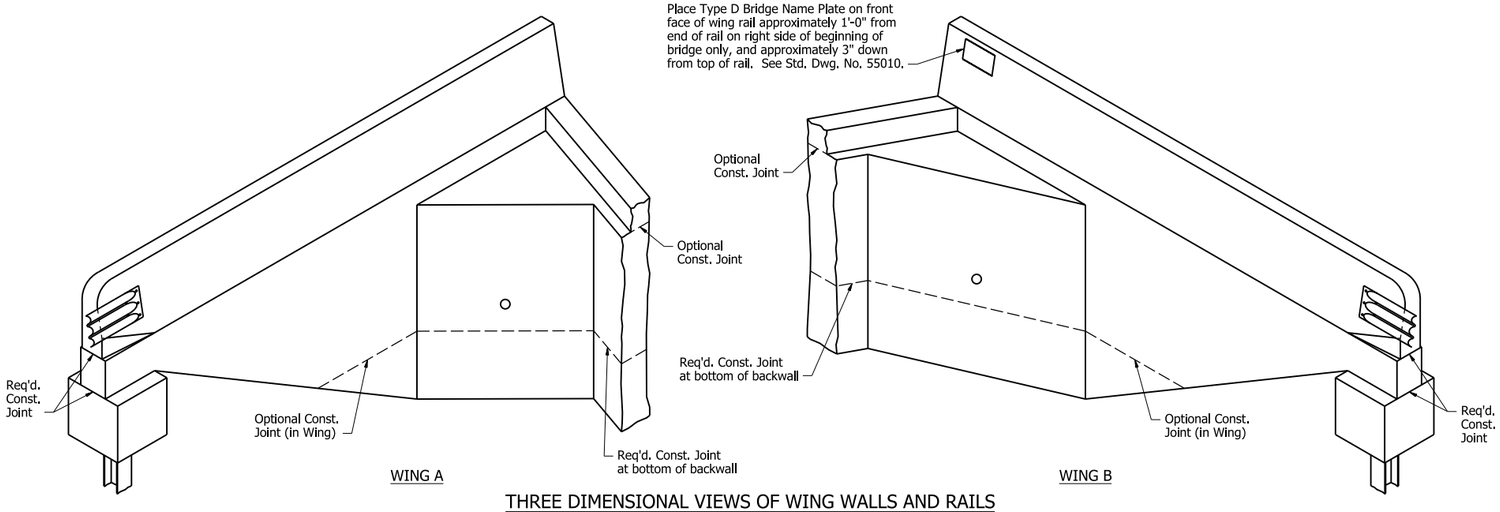
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 6/27/24
CHECKED BY: CPS DATE: 7/25/24
DESIGNED BY: QL DATE: 5/8/24
FILENAME: b040904x14_b13.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68561

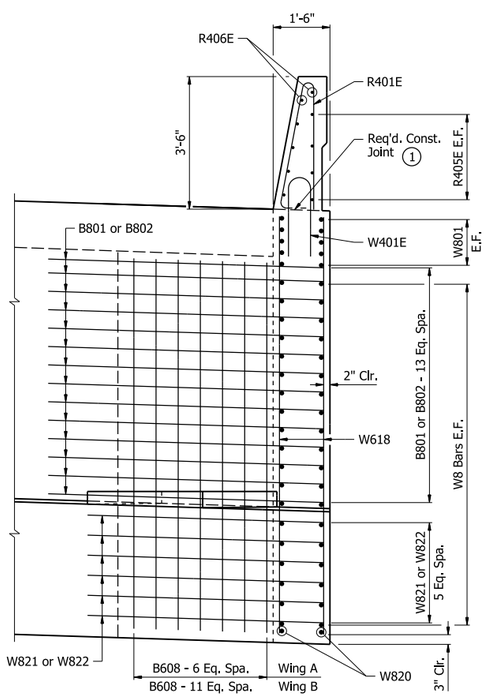
PRINT DATE: 4/6/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	451	742
		07694 - END BENTS - 68562				



THREE DIMENSIONAL VIEWS OF WING WALLS AND RAILS

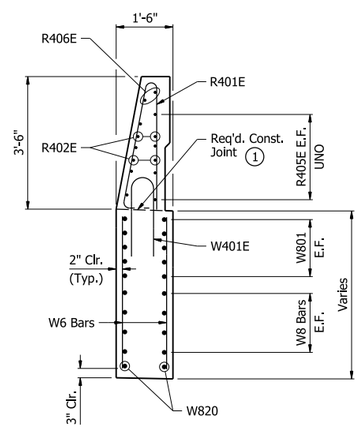
No Scale



VIEW K-K

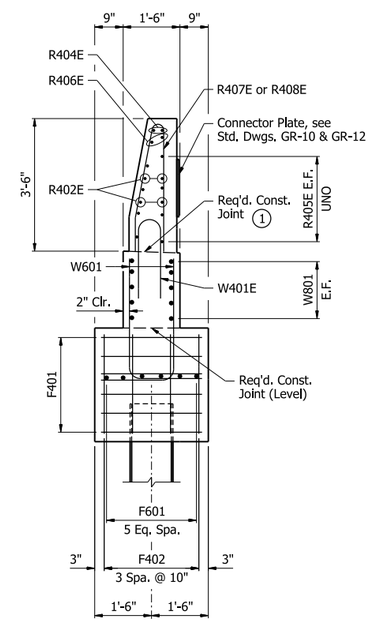
½" = 1'-0"

(1) Match roadway slope at Wing A; Level at Wing B



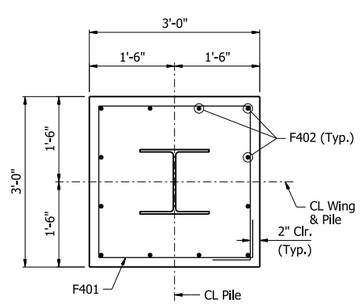
SECTION L-L

½" = 1'-0"



SECTION M-M

½" = 1'-0"



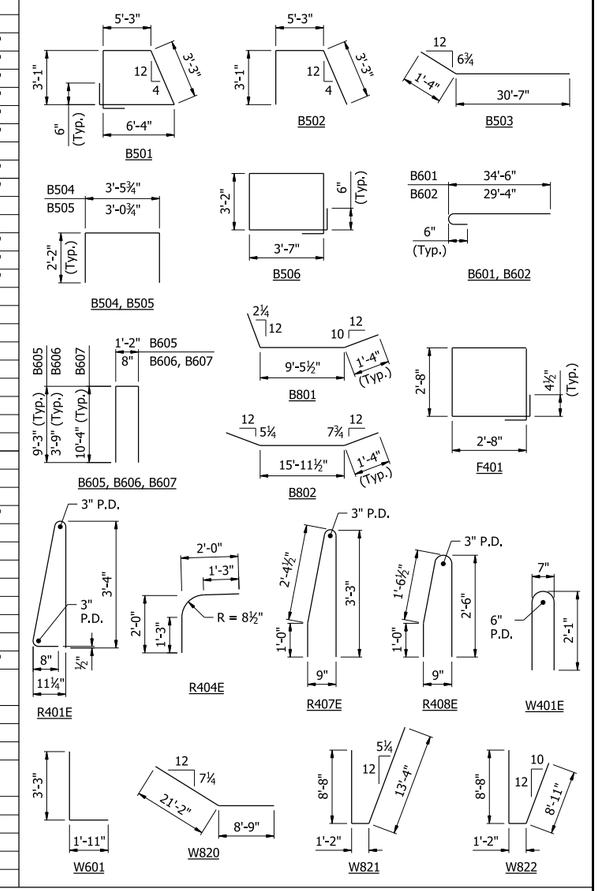
SECTION J-J

¾" = 1'-0"

BAR LIST

Mark	Number Required	Length	Pin Dia.
B401	20	31'-1"	Str.
B501	69	18'-7"	2½"
B502	26	11'-5"	2½"
B503	40	31'-11"	3¾"
B504	42	7'-7"	2½"
B505	42	7'-2"	2½"
B506	6	14'-0"	2½"
B601	9	35'-2"	4½"
B602	9	30'-0"	4½"
B603	9	33'-10"	Str.
B604	9	30'-0"	Str.
B605	49	19'-4"	4½"
B606	49	7'-10"	4½"
B607	9	21'-0"	4½"
B608	19	9'-7"	Str.
B801	14	12'-0"	6"
B802	14	18'-7"	6"
F401	12	11'-0"	2"
F402	24	2'-7"	Str.
F601	12	2'-8"	Str.
R401E	108	7'-6"	3"
R402E	8	5'-6"	Str.
R404E	4	3'-8"	8½"
R405E	16	27'-8"	Str.
R406E	4	27'-5"	Str.
R407E	2	6'-8"	3"
R408E	2	5'-1"	3"
W401E	112	4'-7"	6"
W601	24	5'-0"	4½"
W602 - W617	4 each	1'-11" to 10'-8"	Str.
W618	36	10'-10"	Str.
W801	20	27'-8"	Str.
W802 - W819	4 each	9'-2" to 23'-11"	Str.
W820	4	29'-11"	6"
W821	6	22'-11"	6"
W822	6	18'-6"	6"

Bending Diagrams (Dimensions are out to out of bars)



All bars designated with an "E" suffix are to be epoxy coated.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
★★★
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 4 OF 4
DETAILS OF END BENT NO. 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

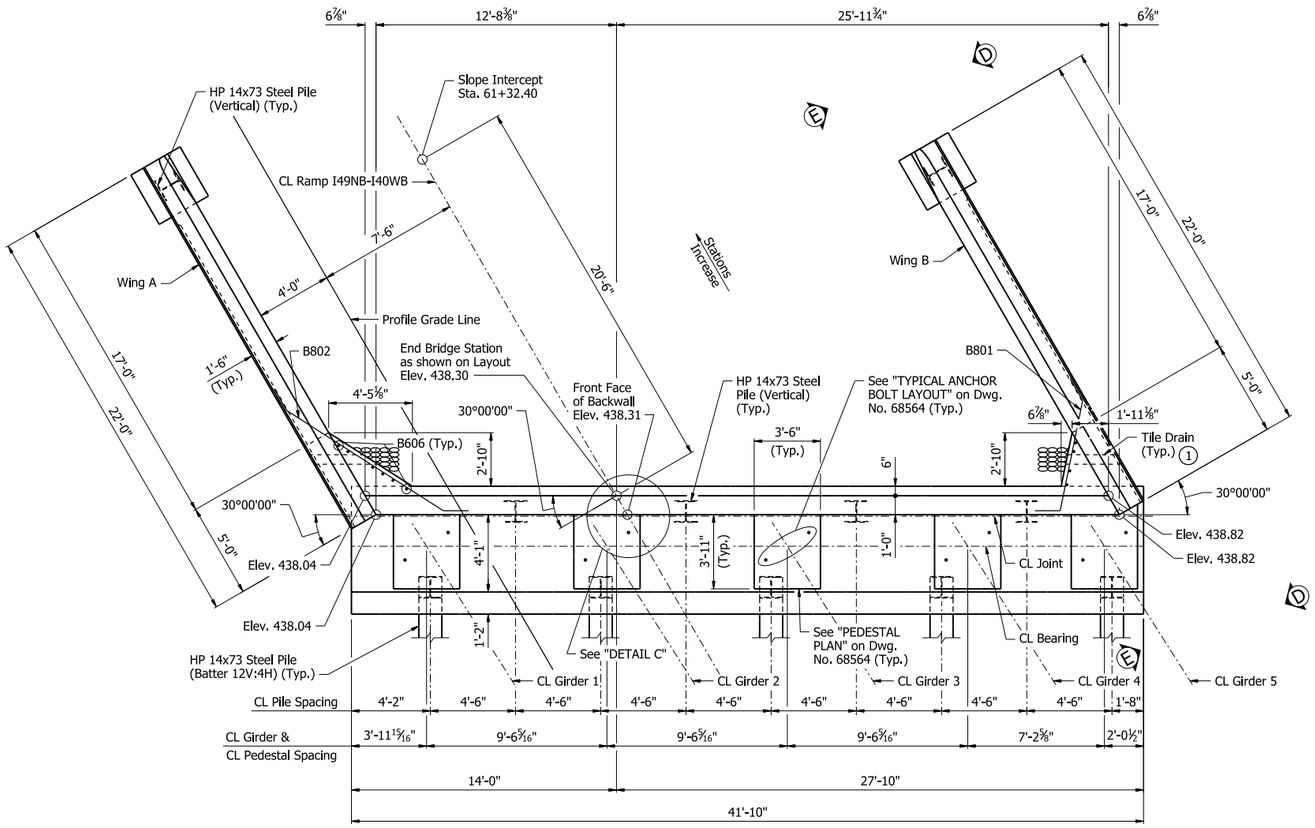
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 6/27/24
CHECKED BY: CPS DATE: 7/25/24
DESIGNED BY: QL DATE: 5/8/24
FILENAME: b040904x14_b14.dgn
SCALE: AS NOTED

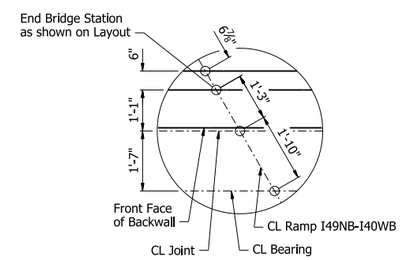
BRIDGE NO. 07694 DRAWING NO. 68562

PRINT DATE: 4/8/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	452	742
		07694 - END BENTS - 68563				



PLAN - BENT NO. 6



DETAIL C
No Scale

Notes:
For General Notes, see Dwg. No. 68476.

All piling shall be HP14x73 (AASHTO M 270, Gr. 50). See Std. Dwg. No. 55020 for additional details.

For "SECTION A-A", see Dwg. No. 68564.

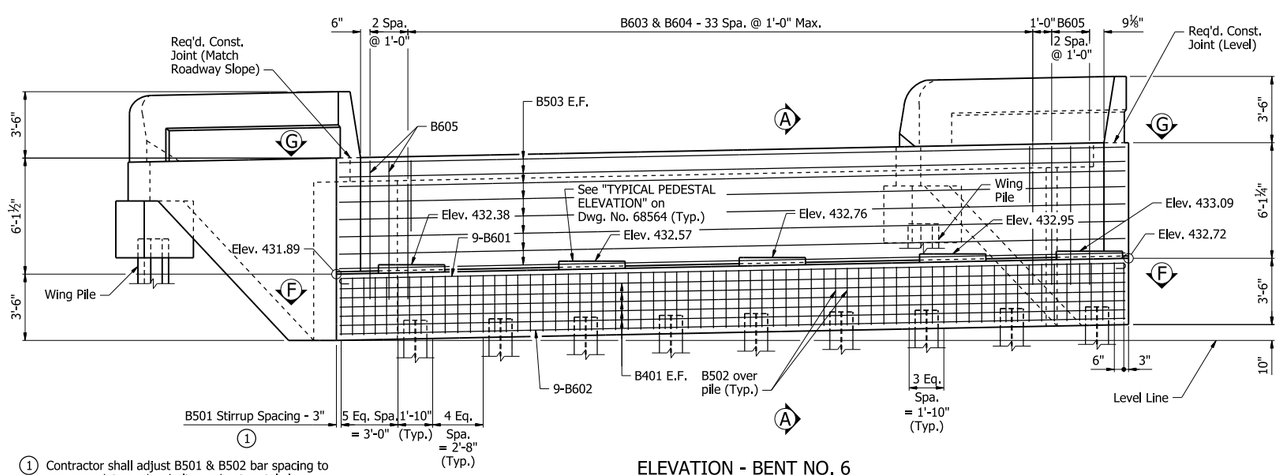
For "VIEW D-D", "VIEW E-E", "SECTION F-F", & VIEW G-G", see Dwg. No. 68565.

Structural Steel in end bents shall be ASTM A709, Gr. 50W unless noted otherwise, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)".

Top of backwall surface finish shall match that used on the bridge deck.

Class 2 Protective Surface Treatment shall be applied to the roadway face and top of the wing rails, and the top of the backwall.

1 Place 6" Ø tile drains approx. 6" above fill slope. Spread bars as required. Place 6 cu. ft. of sacked ¾" crushed rock or gravel at each drain. All work and materials to install drains shall be subsidiary to "Class S Concrete".



1 Contractor shall adjust B501 & B502 bar spacing to accommodate anchor bolts or sheet metal sleeves. B501 & B502 bars may be shifted up to one bar space or bundled with a neighboring stirrup. In no case shall the space between neighboring sets of stirrups exceed twice the detailed spacing.

ELEVATION - BENT NO. 6
Looking Upstation

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
★★★
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 4
DETAILS OF END BENT NO. 6
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

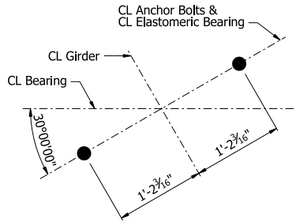
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JVS DATE: 7/16/24
CHECKED BY: CPS DATE: 8/2/24
DESIGNED BY: QL DATE: 5/16/24
FILENAME: b040904x14_b61.dgn
SCALE: ¼" = 1'-0"

BRIDGE NO. 07694 DRAWING NO. 68563

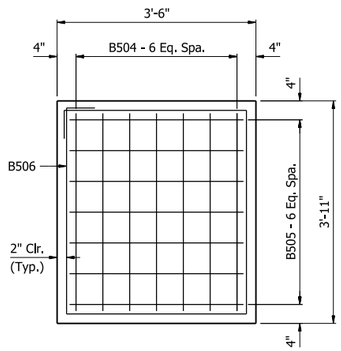
PRINT DATE: 4/8/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	453	742
		07694 - END BENTS - 68564				



TYPICAL ANCHOR BOLT LAYOUT

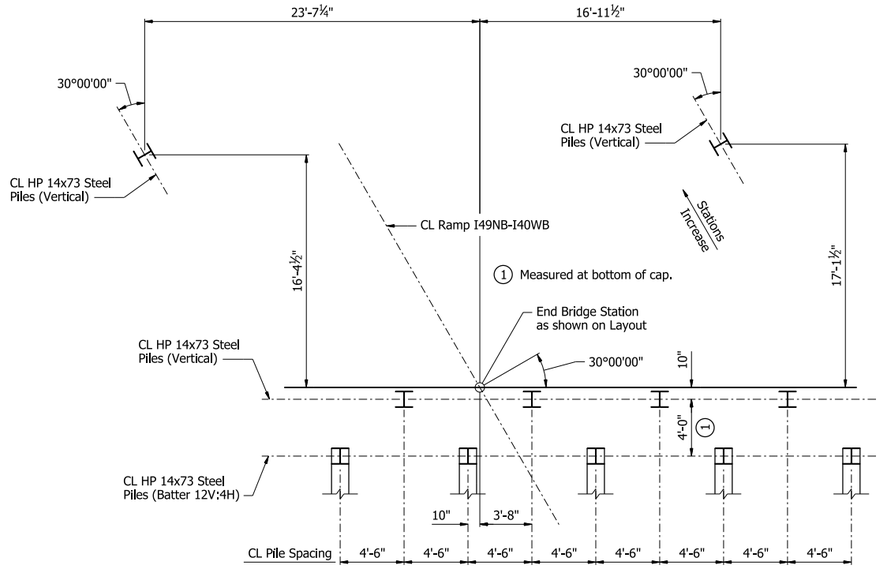
1" = 1'-0"



TYPICAL PEDESTAL PLAN

¾" = 1'-0"

Note:
Contractor shall adjust B504 & B505 bar spacing to accommodate anchor bolts and sheet metal sleeves.



LAYOUT OF PILES

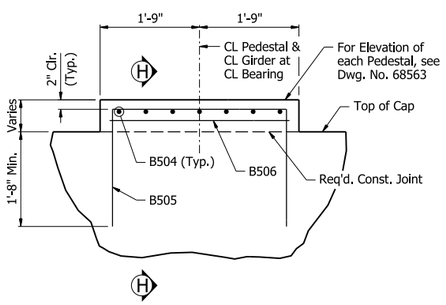
No Scale

Notes:
For "DETAILS OF ELASTOMERIC BEARINGS", see Dwg. Nos. 68599 & 68600.

For Joint Details, see Std. Dwg. No. 55008.

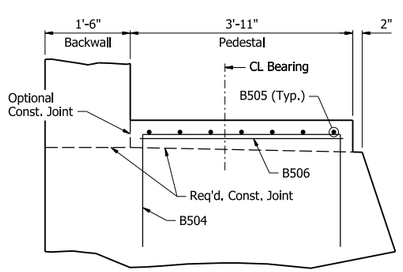
No portion of the backwall shall be poured before girders are in place. The portion of the backwall above the optional construction joint at the paving bracket shall not be placed until the adjacent deck pour has been made, Refer to the "EXPANSION DEVICE INSTALLATION AT END BENTS" note on Std. Dwg. No. 55008. No heavy construction equipment shall be allowed within 10' of the backwall before the deck concrete placement for the adjacent span has been completed.

For "DETAIL 2" location, see Dwg. No. 68557.



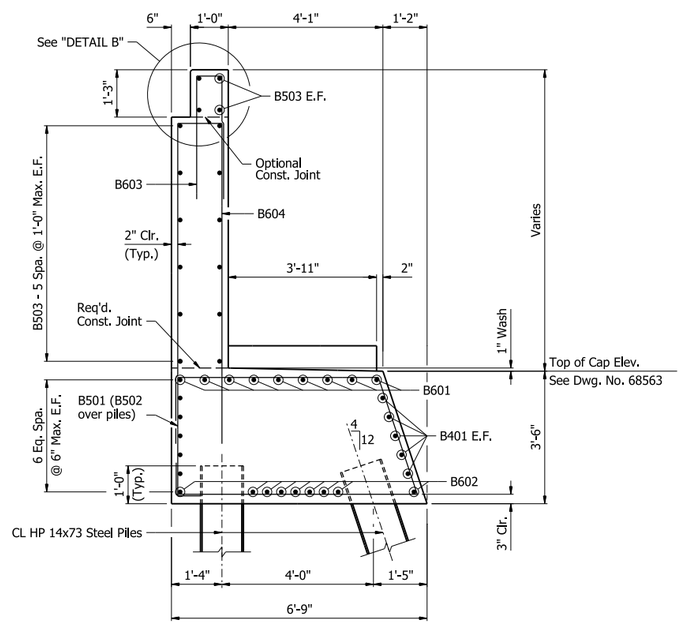
TYPICAL PEDESTAL ELEVATION

¾" = 1'-0"



SECTION H-H

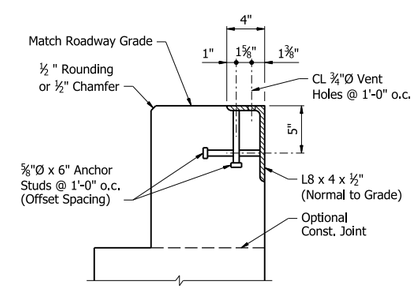
¾" = 1'-0"



SECTION A-A

½" = 1'-0"

Note:
Contractor shall adjust B601 bar spacing to accommodate anchor bolts or sheet metal sleeves. Contractor shall maintain a minimum spacing of 3" and maximum spacing of 11".



DETAIL B

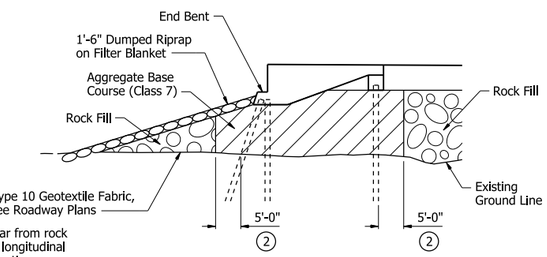
No Scale

Notes:
Transverse spacing between vertical anchor studs and vent holes shall be 6".

Concrete shall be hand-packed under the joint armor.

For additional joint details, see Std. Dwg. No. 55008.

The profile of the end bent angle shall be established based on the vertical curve in conjunction with the skew angle as shown on the layout.



2 5'-0" minimum clear from rock fill to pile for both longitudinal and transverse direction.

Where rock fill is used for embankment construction, aggregate base course (Class 7), in accordance with Section 303.02, shall be placed as shown in areas where piling will be located. Aggregate base course (Class 7) shall be paid for as "Rock Fill".

At the Contractor's option, preboring or other methods as approved by the Engineer may be used to facilitate pile installation thru the aggregate base course (Class 7) material at these locations. Preboring or other methods used for installation of piles where rock fill is used for embankment construction will not be paid for separately, but shall be included in Item "Steel Piling".

Limits of rock fill shall begin at toe of end slope to CL Ramp I49NB-I40WB Sta. 62+70.00.

DETAIL 2

No Scale

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
★★★
No. 17233
QING LIU

5/4/26
BRIDGE ENGINEER

SHEET 2 OF 4
DETAILS OF END BENT NO. 6
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY:	JVS	DATE:	7/16/24	FILENAME:	b040904x14_b62.dgn
CHECKED BY:	CPS	DATE:	8/2/24	SCALE:	AS NOTED
DESIGNED BY:	QL	DATE:	5/16/24		

BRIDGE NO. 07694 DRAWING NO. 68564

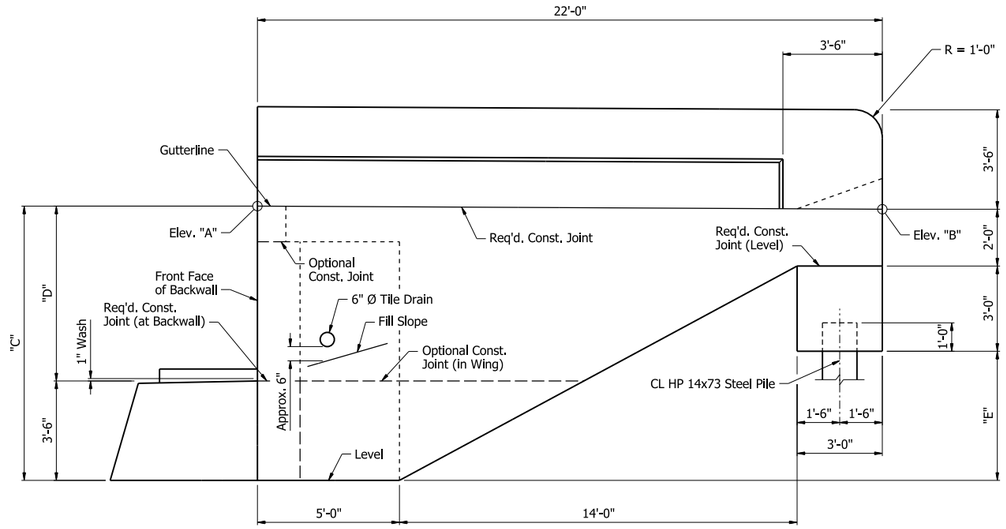
PRINT DATE: 4/7/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	454	742
		07694 - END BENTS - 68565				

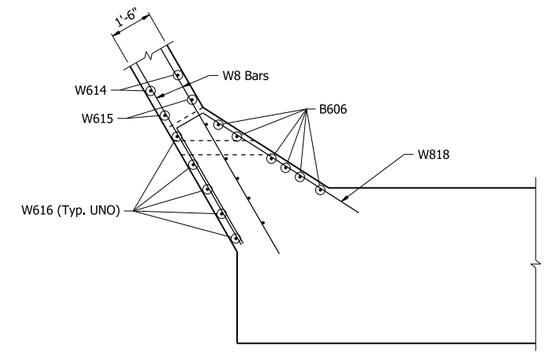
TABLE OF VARIABLES

Wing	Elev. "A"	Elev. "B"	"C"	"D"	"E"
A	438.01	437.90	9'-7½"	6'-1½"	4'-6⅛"
B	438.82	438.71	9'-7¼"	6'-1¼"	4'-5⅞"

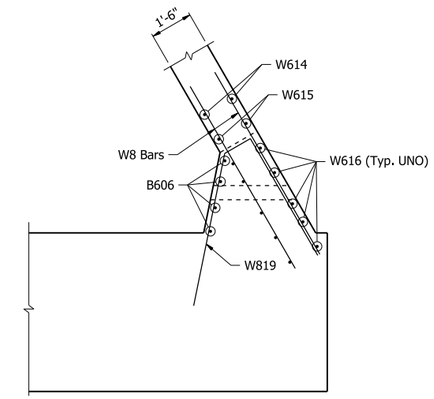
Notes:
For "SECTION J-J", "VIEW K-K", "SECTION L-L", & "SECTION M-M", see Dwg. No. 68566.



VIEW D-D
⅜" = 1'-0"
(Wing B shown; Wing A similar)

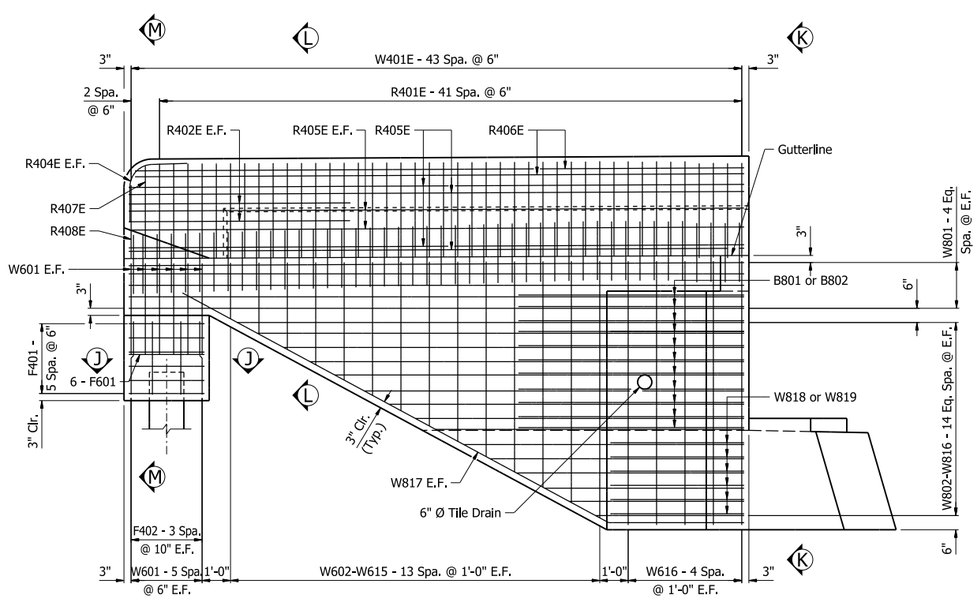


WING A

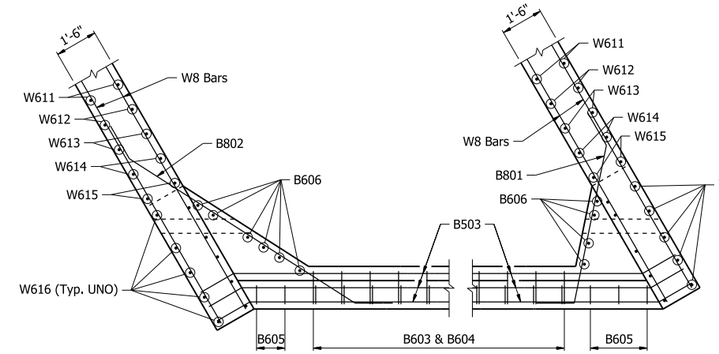


WING B

SECTION F-F
⅜" = 1'-0"



VIEW E-E
⅜" = 1'-0"
(Wing B shown; Wing A similar)



WING A

WING B

VIEW G-G
⅜" = 1'-0"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
★★★
No. 17233
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5/4/26
BRIDGE ENGINEER

SHEET 3 OF 4
DETAILS OF END BENT NO. 6
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

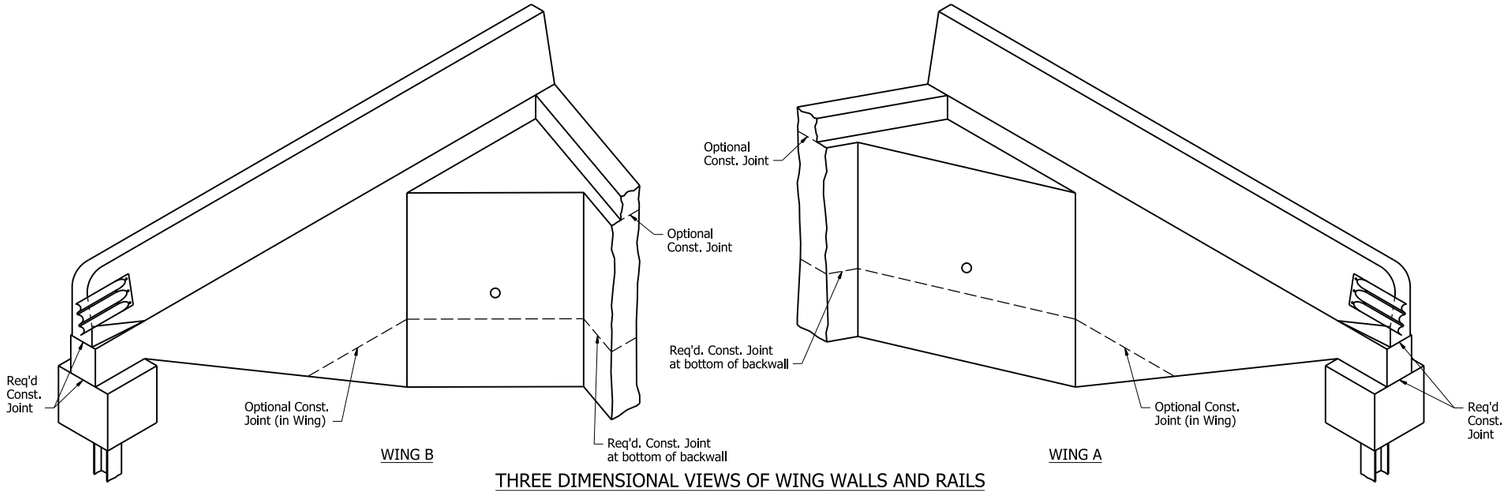
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JVS DATE: 7/16/24
CHECKED BY: CPS DATE: 8/2/24
DESIGNED BY: QL DATE: 5/16/24
FILENAME: b040904x14_b63.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68565

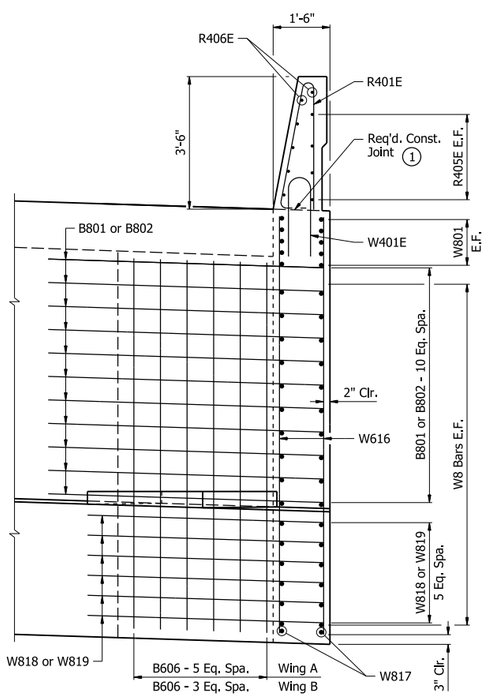
PRINT DATE: 4/6/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	455	742
		07694 - END BENTS - 68566				



THREE DIMENSIONAL VIEWS OF WING WALLS AND RAILS

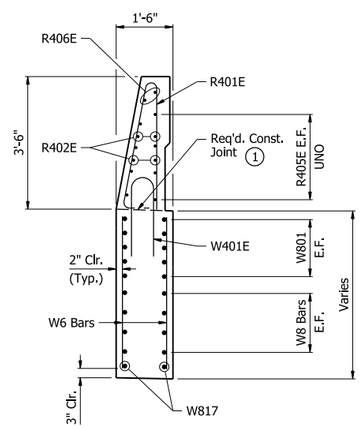
No Scale



VIEW K-K

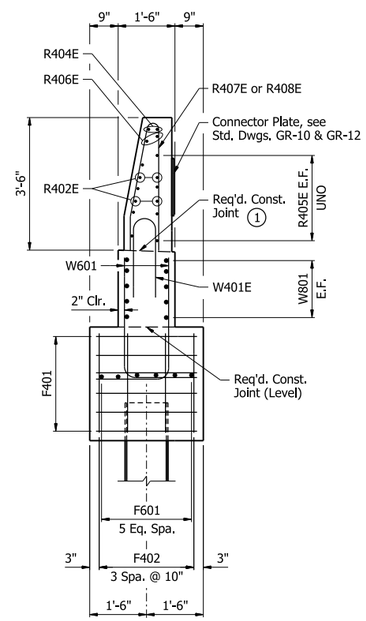
½" = 1'-0"

(1) Match roadway slope at Wing A; Level at Wing B



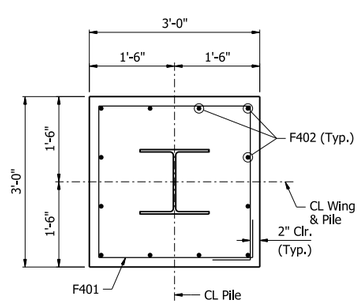
SECTION L-L

½" = 1'-0"



SECTION M-M

½" = 1'-0"



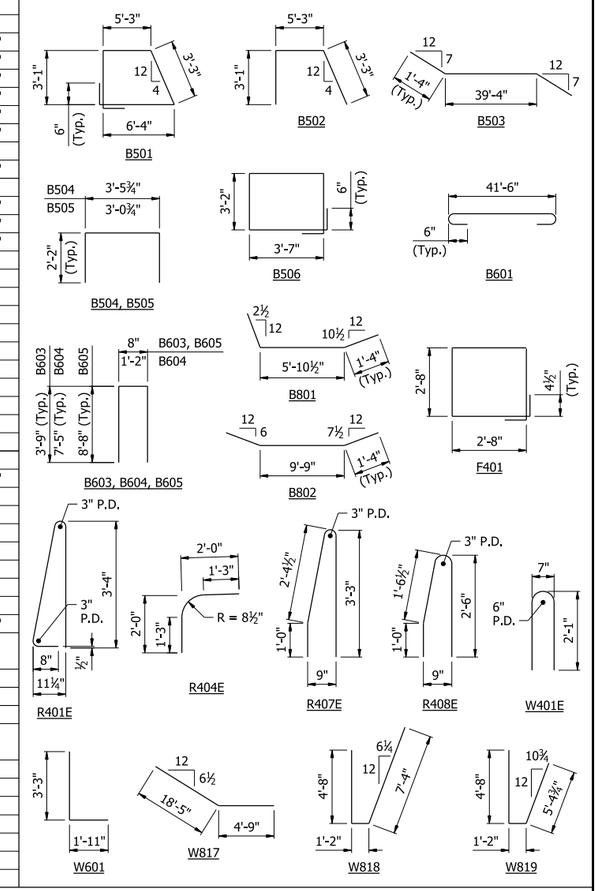
SECTION J-J

¾" = 1'-0"

BAR LIST

Mark	Number Required	Length	Pin Dia.
B401	10	41'-6"	Str.
B501	48	18'-7"	2½"
B502	18	11'-5"	2½"
B503	16	42'-0"	3¾"
B504	35	7'-7"	2½"
B505	35	7'-2"	2½"
B506	5	14'-0"	2½"
B601	9	42'-11"	4½"
B602	9	41'-6"	Str.
B603	34	7'-10"	4½"
B604	34	15'-8"	4½"
B605	5	17'-8"	4½"
B606	10	7'-11"	Str.
B801	11	8'-5"	6"
B802	11	12'-5"	6"
F401	12	11'-0"	2"
F402	24	2'-7"	Str.
F601	12	2'-8"	Str.
R401E	84	7'-6"	3"
R402E	8	5'-6"	Str.
R404E	4	3'-8"	8½"
R405E	16	21'-8"	Str.
R406E	4	21'-5"	Str.
R407E	2	6'-8"	3"
R408E	2	5'-1"	3"
W401E	88	4'-7"	6"
W601	24	5'-0"	4½"
W602 - W615	4 each	1'-11" to 9'-0"	Str.
W616	20	9'-2"	Str.
W801	20	21'-8"	Str.
W802 - W816	4 each	5'-3" to 17'-10"	Str.
W817	4	23'-2"	6"
W818	6	12'-11"	6"
W819	6	11'-0"	6"

Bending Diagrams (Dimensions are out to out of bars)



All bars designated with an "E" suffix are to be epoxy coated.

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 17233 QING LIU

5/4/26

BRIDGE ENGINEER

SHEET 4 OF 4
DETAILS OF END BENT NO. 6
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: JVS DATE: 7/16/24
CHECKED BY: CPS DATE: 8/2/24
DESIGNED BY: QL DATE: 5/8/24
FILENAME: b040904x14_b64.dgn
SCALE: AS NOTED

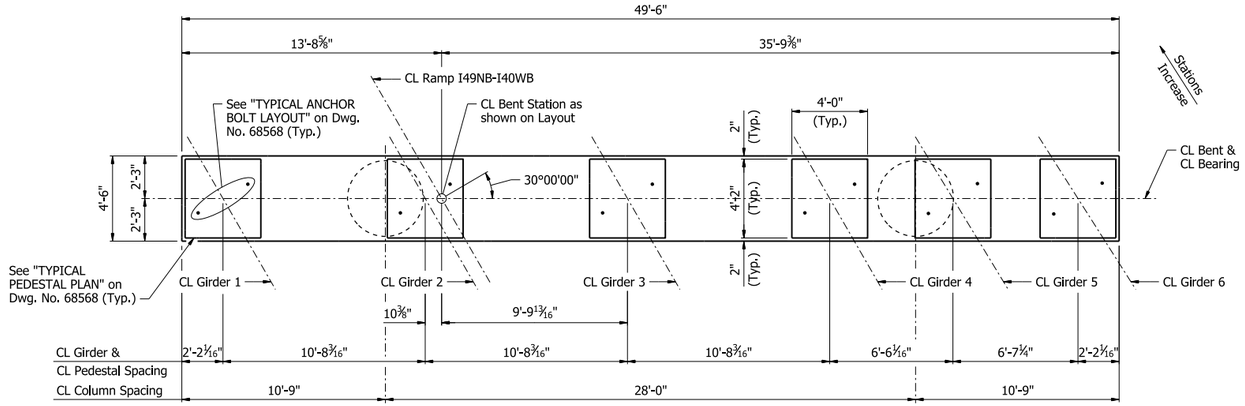
BRIDGE NO. 07694 DRAWING NO. 68566

PRINT DATE: 4/8/2026

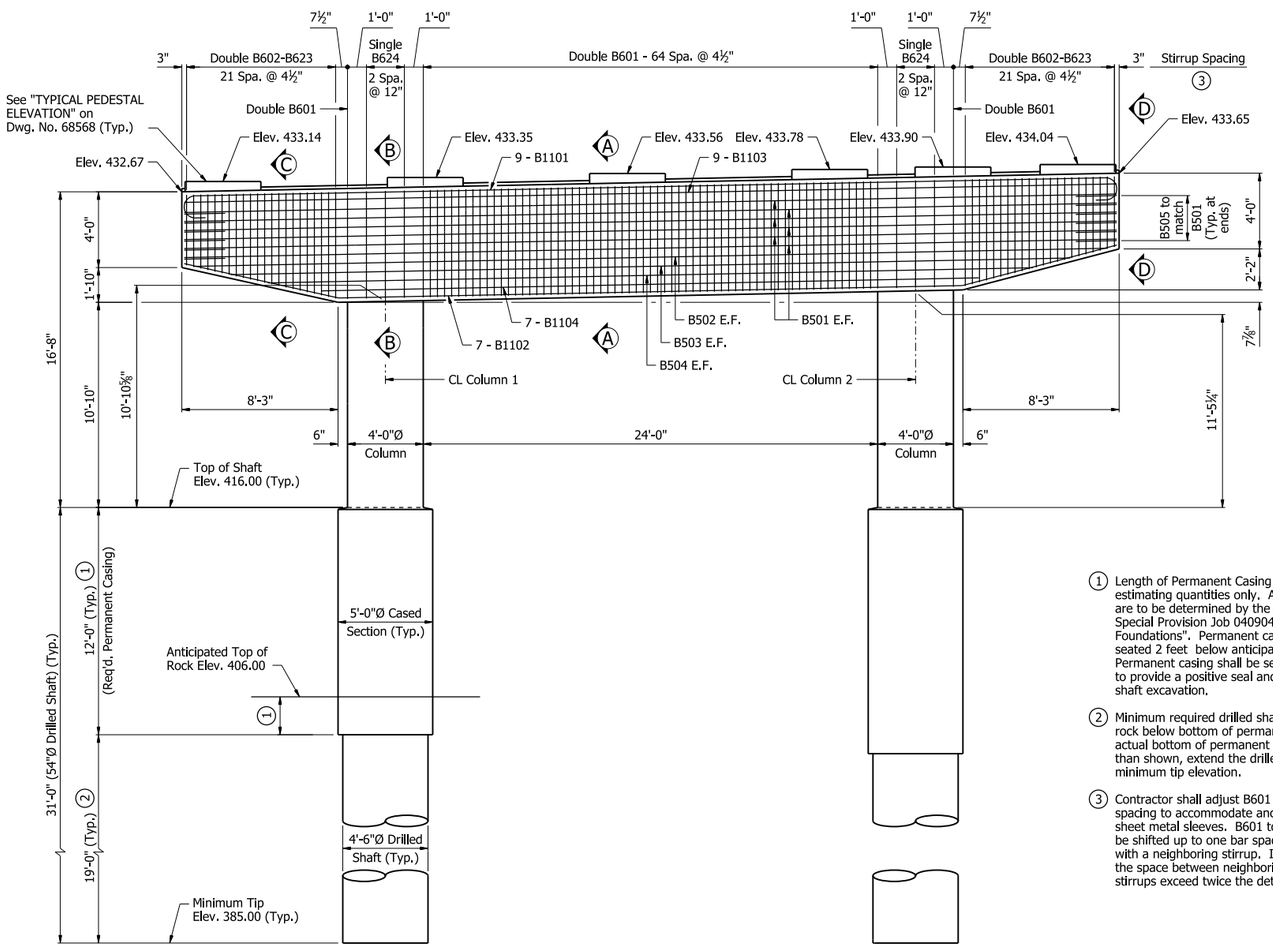
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	456	742
		07694 - INT. BENTS - 68567				

Notes:
For "GENERAL NOTES", see Dwg. No. 68476.

For "SECTION A-A" thru "SECTION C-C", "VIEW D-D", & "SECTION E-E" thru "SECTION H-H", see Dwg. No. 68568.



PLAN - BENT NO. 2



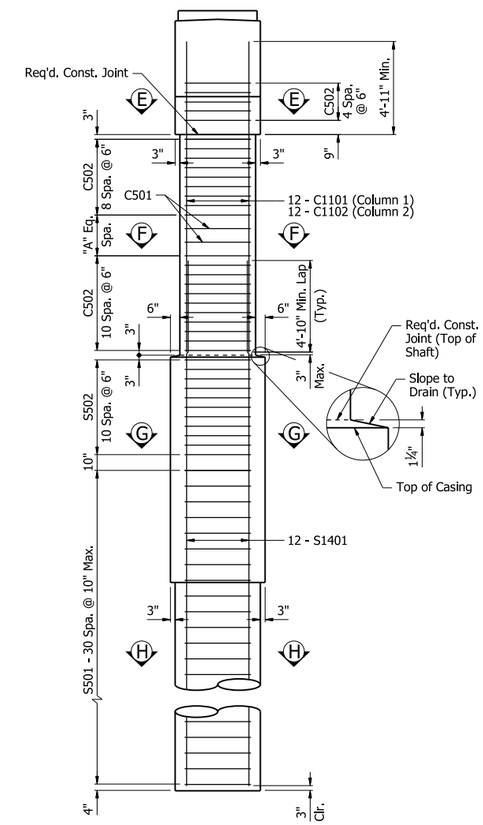
ELEVATION - BENT NO. 2

Looking Upstation

1. Length of Permanent Casing shown is for estimating quantities only. Actual lengths are to be determined by the Contractor. See Special Provision Job 040904, "Drilled Shaft Foundations". Permanent casing is assumed seated 2 feet below anticipated top of rock. Permanent casing shall be seated into rock to provide a positive seal and stabilize the shaft excavation.
2. Minimum required drilled shaft length into rock below bottom of permanent casing. If actual bottom of permanent casing is higher than shown, extend the drilled shaft to the minimum tip elevation.
3. Contractor shall adjust B601 to B623 bar spacing to accommodate anchor bolts or sheet metal sleeves. B601 to B623 bars may be shifted up to one bar space or bundled with a neighboring stirrup. In no case shall the space between neighboring sets of stirrups exceed twice the detailed spacing.

TABLE OF VARIABLES

Column No.	"A"
1	2
2	3



END VIEW

Notes:
Dimensions, details, & reinforcing steel shown are typical for all columns and drilled shafts.

If column, cased section, or drilled shaft length changes during construction, number of ties shall be adjusted accordingly to maintain the maximum spacing in the regions identified above.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF BENT NO. 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

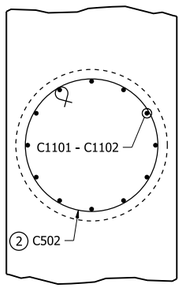
LITTLE ROCK, ARK.

DRAWN BY:	CEM	DATE:	7/23/24	FILENAME:	b040904x14_b21.dgn
CHECKED BY:	QL	DATE:	7/24/24	SCALE:	¼" = 1'-0"
DESIGNED BY:	QL	DATE:	5/17/24		

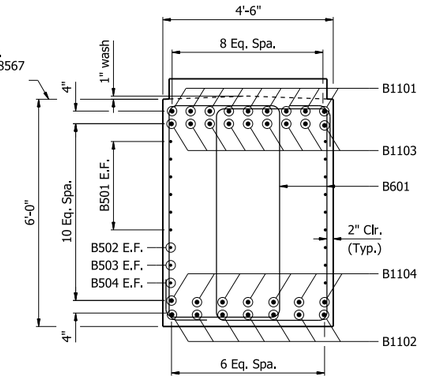
BRIDGE NO. 07694 DRAWING NO. 68567

PRINT DATE: 4/7/2026

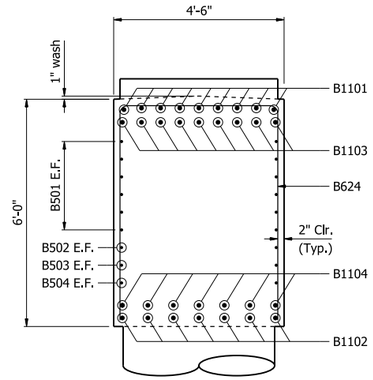
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	457	742
		07694 - INT. BENTS - 68568				



SECTION E-E
½" = 1'-0"
(Cap reinforcing not shown for clarity)

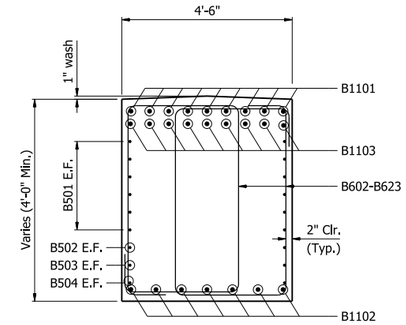


SECTION A-A
½" = 1'-0"
(Pedestal reinforcing not shown for clarity)

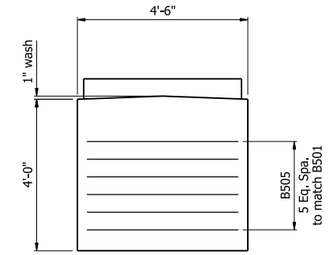


SECTION B-B
½" = 1'-0"
(Pedestal and column reinforcing not shown for clarity)

Note:
Contractor shall adjust B1101 thru B1104 bar spacing to accommodate anchor bolts, sheet metal sleeves, or vertical column steel. Contractor shall maintain a minimum and maximum spacing of 4" and 10", respectively.



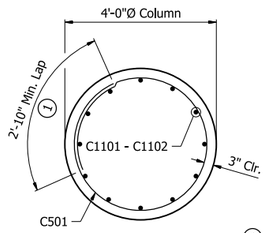
SECTION C-C
½" = 1'-0"



VIEW D-D
½" = 1'-0"

Notes:
For locations of "SECTION A-A" thru "SECTION C-C", "VIEW D-D", & "SECTION E-E" thru "SECTION H-H", see Dwg. No. 68567.

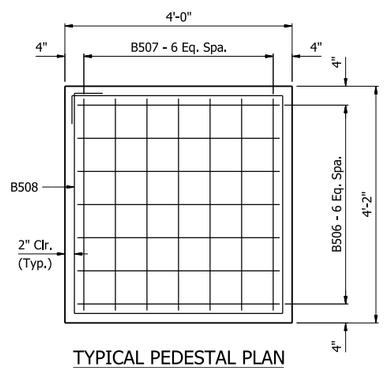
For "DETAILS OF ELASTOMERIC BEARINGS", see Dwg. Nos. 68599 & 68600.



SECTION F-F
½" = 1'-0"

1 Location of lap splices in C501 & S501 ties shall be alternated 180° at adjacent ties.

2 Location of end hooks in C502 & S502 ties shall be alternated 180° at adjacent ties.

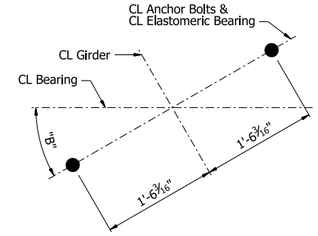


TYPICAL PEDESTAL PLAN
¾" = 1'-0"

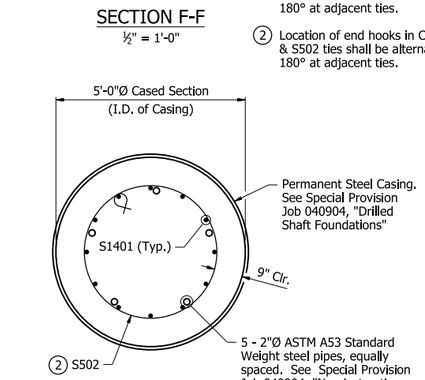
Note:
Contractor shall adjust B506 & B507 bar spacing to accommodate anchor bolts and sheet metal sleeves.

TABLE OF VARIABLES

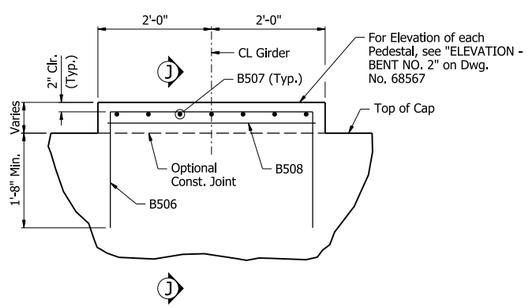
Girder	"B"
1	30°00'00"
2	30°00'00"
3	30°00'00"
4	30°00'00"
5	31°18'16"
6	32°27'28"



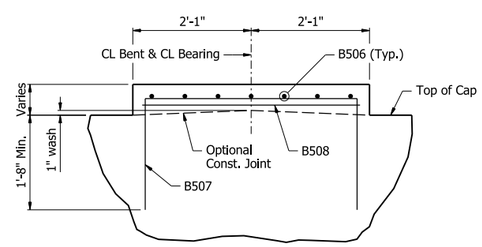
TYPICAL ANCHOR BOLT LAYOUT
1" = 1'-0"



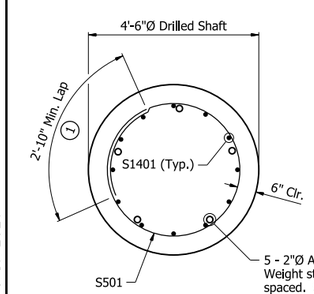
SECTION G-G
½" = 1'-0"



TYPICAL PEDESTAL ELEVATION
¾" = 1'-0"



SECTION J-J
¾" = 1'-0"



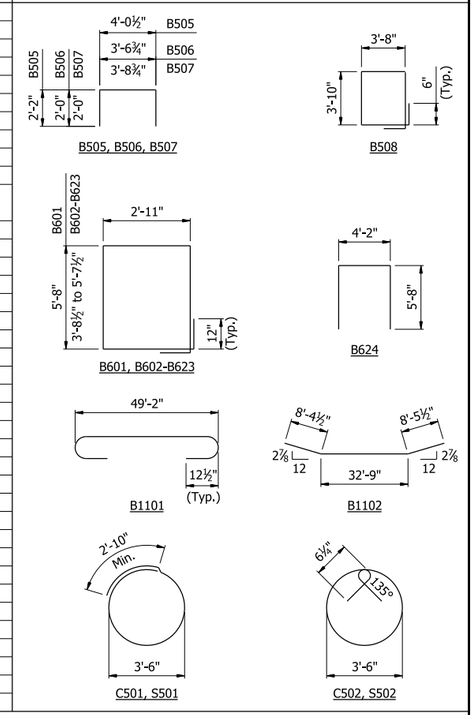
SECTION H-H
½" = 1'-0"

5 - 2"Ø ASTM A53 Standard Weight steel pipes, equally spaced. See Special Provision Job 040904, "Nondestructive Testing of Drilled Shafts".

BAR LIST

Mark	Number Required	Length	Pin Dia.
B501	12	49'-2"	Str.
B502	2	48'-3"	Str.
B503	2	44'-4"	Str.
B504	2	40'-5"	Str.
B505	12	8'-2"	2½"
B506	42	7'-4"	2½"
B507	42	7'-6"	2½"
B508	6	15'-6"	2½"
B601	134	18'-4"	4½"
B602 - B623	4 each	14'-5" to 18'-3"	4½"
B624	6	15'-2"	4½"
B1101	9	52'-3"	11¼"
B1102	7	49'-7"	11¼"
B1103	9	49'-2"	Str.
B1104	7	36'-8"	Str.
C501	3	13'-8"	-
C502	50	12'-4"	3¾"
C1101	12	15'-7"	Str.
C1102	12	16'-2"	Str.
(3) S501	62	13'-8"	-
(3) S502	22	12'-4"	3¾"
(3) S1401	24	35'-10"	Str.

Bending Diagrams
(Dimensions are out to out of bars)



(3) S1401 longitudinal reinforcement and S501 & S502 tie reinforcement are non-pay items which are subsidiary to item "DRILLED SHAFT (54" DIA.)". Individual lengths shall be determined by the Contractor.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF BENT NO. 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 7/23/24
CHECKED BY: QL DATE: 7/25/24
DESIGNED BY: QL DATE: 5/17/24
FILENAME: b040904x14_b22.dgn
SCALE: AS NOTED

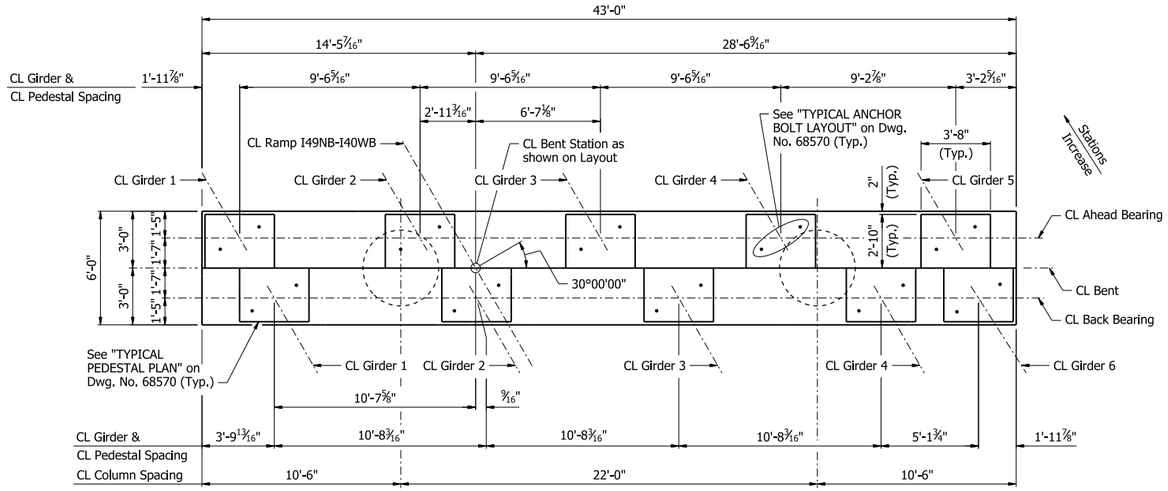
BRIDGE NO. 07694 DRAWING NO. 68568

PRINT DATE: 3/16/2026

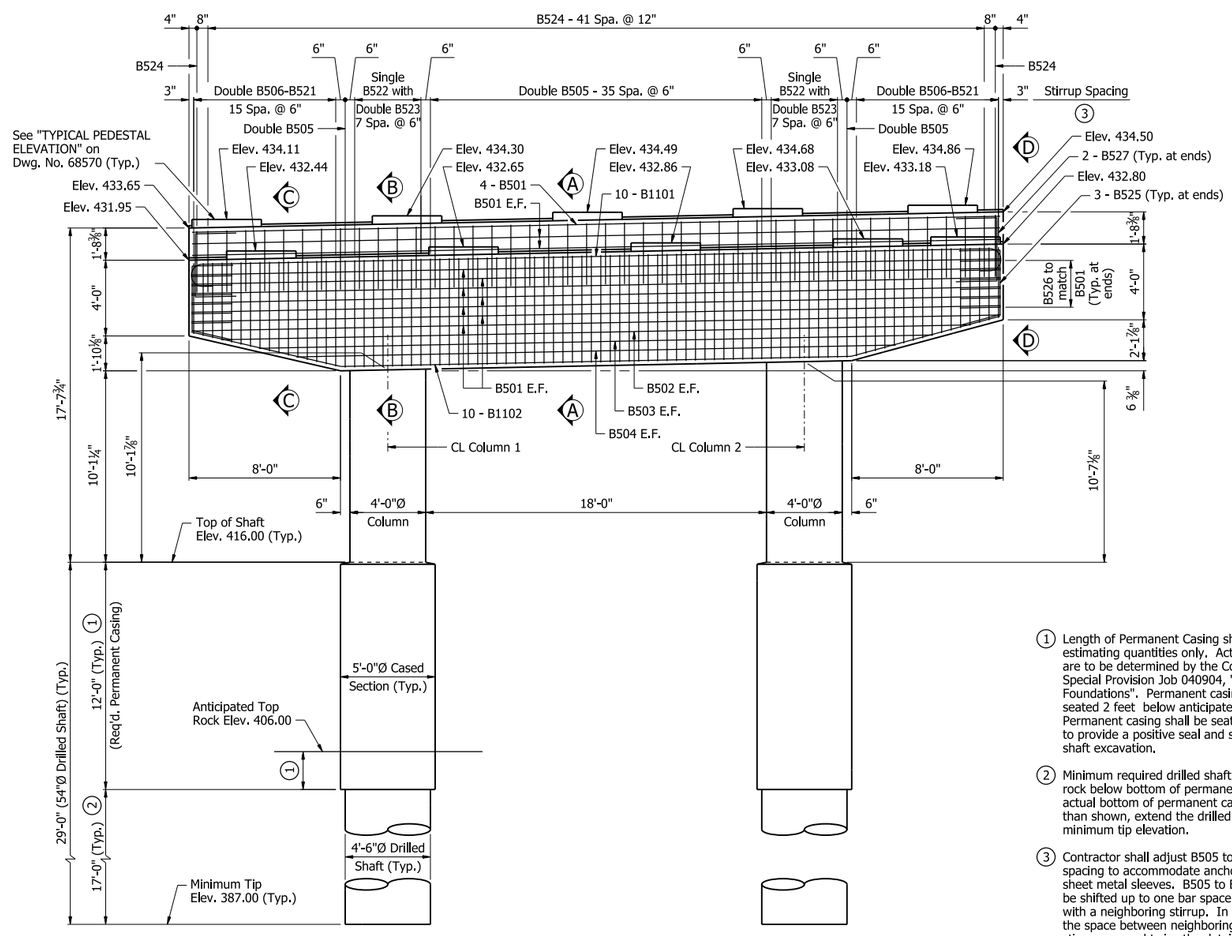
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	458	742
		07694 - INT. BENTS - 68569				

Notes:
For "GENERAL NOTES", see Dwg. No. 68476.

For "SECTION A-A" thru "SECTION C-C", "VIEW D-D", & "SECTION E-E" thru "SECTION H-H", see Dwg. No. 68570.



PLAN - BENT NO. 3



ELEVATION - BENT NO. 3
Looking Upstation

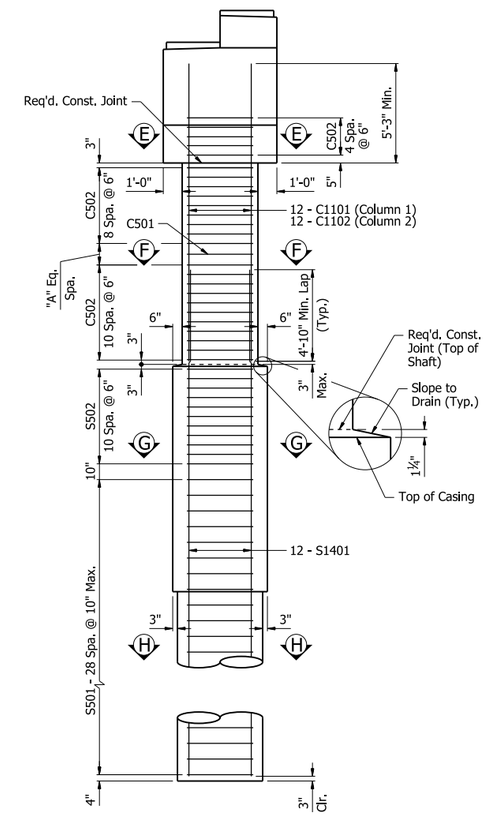
1. Length of Permanent Casing shown is for estimating quantities only. Actual lengths are to be determined by the Contractor. See Special Provision Job 040904, "Drilled Shaft Foundations". Permanent casing is assumed seated 2 feet below anticipated top of rock. Permanent casing shall be seated into rock to provide a positive seal and stabilize the shaft excavation.

2. Minimum required drilled shaft length into rock below bottom of permanent casing. If actual bottom of permanent casing is higher than shown, extend the drilled shaft to the minimum tip elevation.

3. Contractor shall adjust B505 to B522 bar spacing to accommodate anchor bolts or sheet metal sleeves. B505 to B522 bars may be shifted up to one bar space or bundled with a neighboring stirrup. In no case shall the space between neighboring sets of stirrups exceed twice the detailed spacing.

TABLE OF VARIABLES

Column No.	"A"
1	1
2	2



END VIEW

Notes:
Dimensions, details, & reinforcing steel shown are typical for all columns and drilled shafts.

If column, cased section, or drilled shaft length changes during construction, number of ties shall be adjusted accordingly to maintain the maximum spacing in the regions identified above.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF BENT NO. 3
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

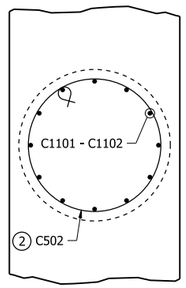
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 7/23/24
CHECKED BY: QL DATE: 7/26/24
DESIGNED BY: QL DATE: 5/17/24
FILENAME: b040904x14_b31.dgn
SCALE: ¼" = 1'-0"

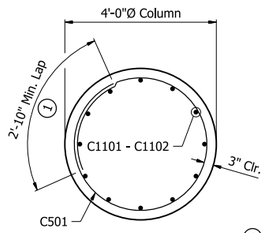
BRIDGE NO. 07694 DRAWING NO. 68569

PRINT DATE: 4/1/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	459	742
		07694 - INT. BENTS - 68570				



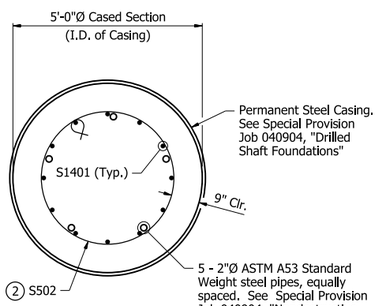
SECTION E-E
½" = 1'-0"
(Cap reinforcing not shown for clarity)



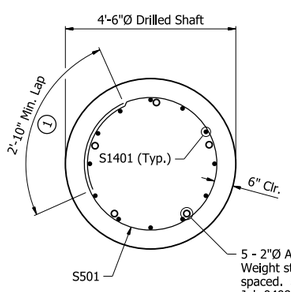
SECTION F-F
½" = 1'-0"

1 Location of lap splices in C501 & S501 ties shall be alternated 180° at adjacent ties.

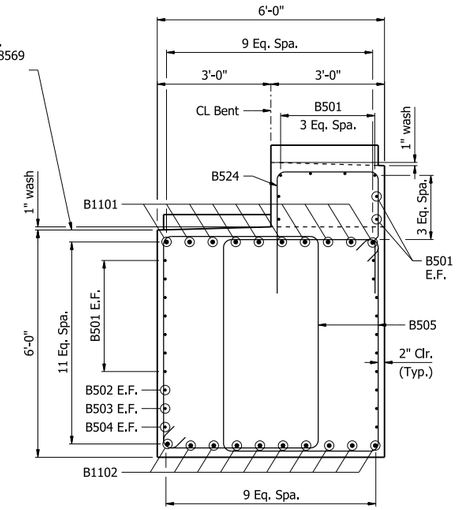
2 Location of end hooks in C502 & S502 ties shall be alternated 180° at adjacent ties.



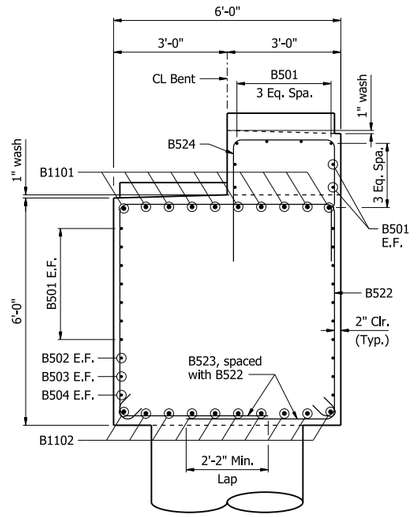
SECTION G-G
½" = 1'-0"



SECTION H-H
½" = 1'-0"

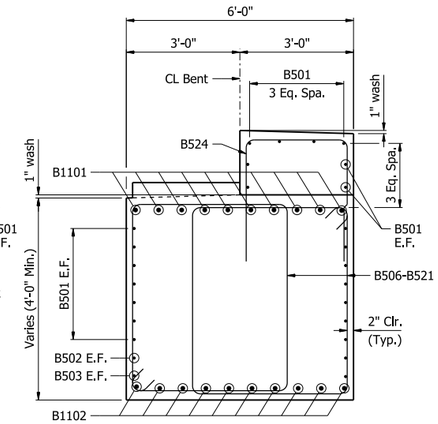


SECTION A-A
½" = 1'-0"

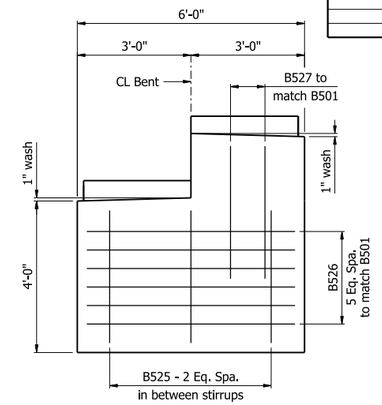


SECTION B-B
½" = 1'-0"
(Pedestal and column reinforcing not shown for clarity)

Note:
Contractor shall adjust B1101 and B1102 bar spacing to accommodate anchor bolts, sheet metal sleeves, or vertical column steel. Contractor shall maintain a minimum and maximum spacing of 4" and 10", respectively.



SECTION C-C
½" = 1'-0"



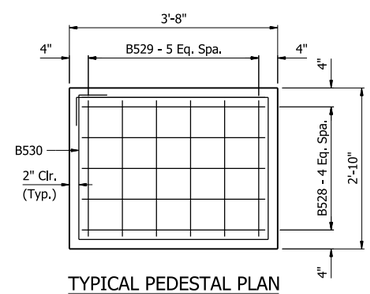
VIEW D-D
½" = 1'-0"

Notes:
For locations of "SECTION A-A" thru "SECTION C-C", "VIEW D-D", & "SECTION E-E" thru "SECTION H-H", see Dwg. No. 68569.

For "DETAILS OF ELASTOMERIC BEARINGS", see Dwg. Nos. 68599 & 68600.

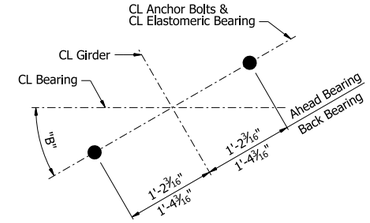
TABLE OF VARIABLES

Girder	"B" Back Bearing	"B" Ahead Bearing
1	30°00'00"	30°00'00"
2	30°00'00"	30°00'00"
3	30°00'00"	30°00'00"
4	30°00'00"	30°00'00"
5	-	30°18'22"
6	32°27'28"	-



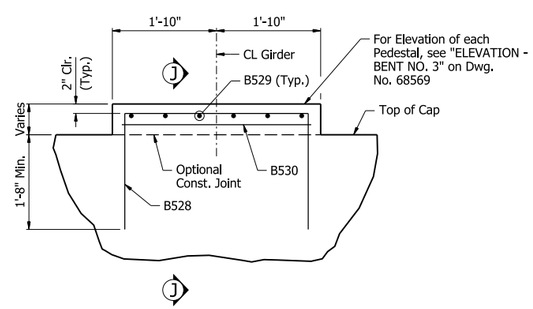
TYPICAL PEDESTAL PLAN
¾" = 1'-0"

Note:
Contractor shall adjust B528 & B529 bar spacing to accommodate anchor bolts and sheet metal sleeves.

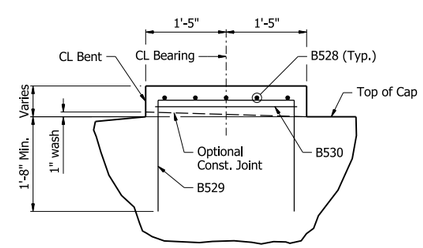


TYPICAL ANCHOR BOLT LAYOUT
1" = 1'-0"

3 S1401 longitudinal reinforcement and S501 & S502 tie reinforcement are non-pay items which are subsidiary to item "DRILLED SHAFT (54" DIA.)". Individual lengths shall be determined by the Contractor.



TYPICAL PEDESTAL ELEVATION
¾" = 1'-0"

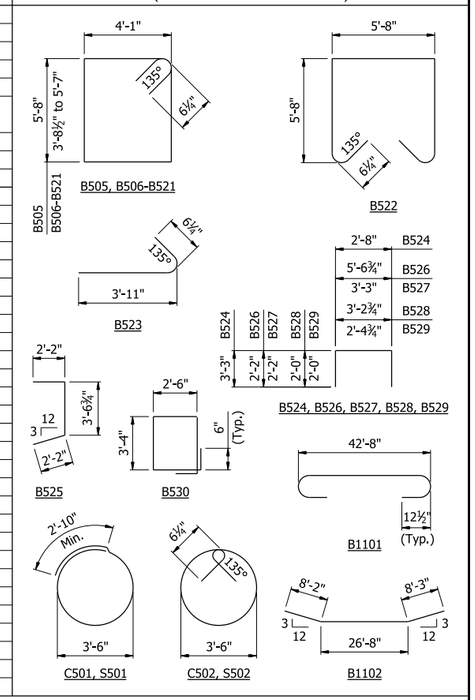


SECTION J-J
¾" = 1'-0"

BAR LIST

Mark	Number Required	Length	Pin Dia.
B501	22	42'-8"	Str.
B502	2	39'-6"	Str.
B503	2	35'-6"	Str.
B504	2	31'-7"	Str.
B505	76	20'-3"	2½"
B506 - B521	4 each	16'-4" to 20'-1"	2½"
B522	16	17'-10"	2½"
B523	32	4'-5"	2½"
B524	44	9'-0"	2½"
B525	6	7'-9"	2½"
B526	12	9'-8"	2½"
B527	4	7'-5"	2½"
B528	50	7'-0"	2½"
B529	60	6'-2"	2½"
B530	10	12'-2"	2½"
B1101	10	45'-9"	11¼"
B1102	10	43'-1"	11¼"
C501	1	13'-8"	-
C502	50	12'-4"	3¾"
C1101	12	15'-2"	Str.
C1102	12	15'-7"	Str.
3 S501	58	13'-8"	-
3 S502	22	12'-4"	3¾"
3 S1401	24	33'-10"	Str.

Bending Diagrams (Dimensions are out to out of bars)



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF BENT NO. 3
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 7/23/24
CHECKED BY: QL DATE: 7/26/24
DESIGNED BY: QL DATE: 5/17/24
FILENAME: b040904x14_b32.dgn
SCALE: AS NOTED

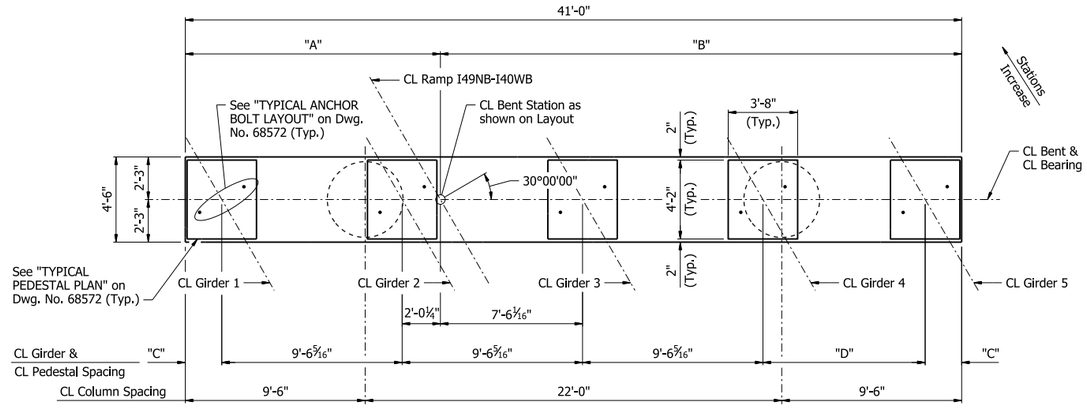
BRIDGE NO. 07694 DRAWING NO. 68570

PRINT DATE: 4/7/2026

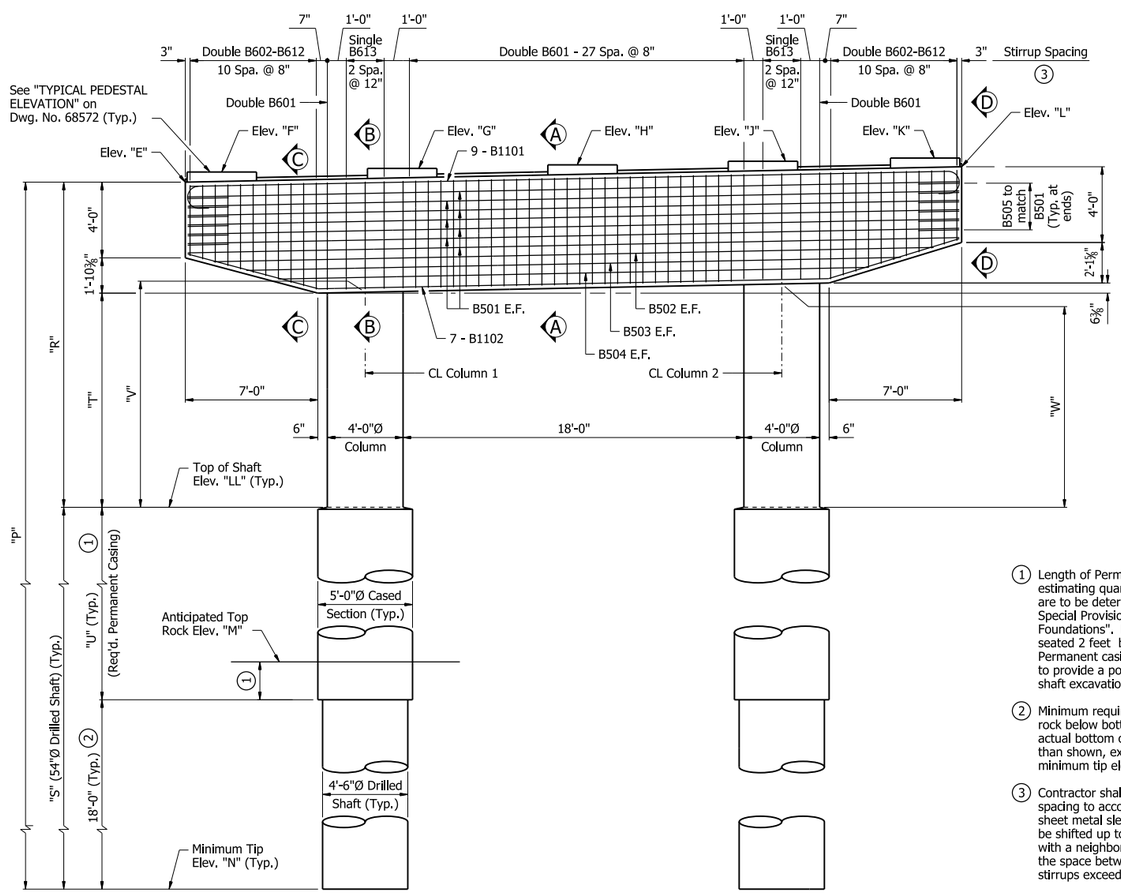
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	460	742
		07694 - INT. BENTS - 68571				

Notes:
For "GENERAL NOTES", see Dwg. No. 68476.

For "SECTION A-A" thru "SECTION C-C", "VIEW D-D", & "SECTION E-E" thru "SECTION H-H", see Dwg. No. 68572.



PLAN - BENT NOS. 4 & 5



ELEVATION - BENT NOS. 4 & 5

Looking Upstation

1. Length of Permanent Casing shown is for estimating quantities only. Actual lengths are to be determined by the Contractor. See Special Provision Job 040904, "Drilled Shaft Foundations". Permanent casing is assumed seated 2 feet below anticipated top of rock. Permanent casing shall be seated into rock to provide a positive seal and stabilize the shaft excavation.

2. Minimum required drilled shaft length into rock below bottom of permanent casing. If actual bottom of permanent casing is higher than shown, extend the drilled shaft to the minimum tip elevation.

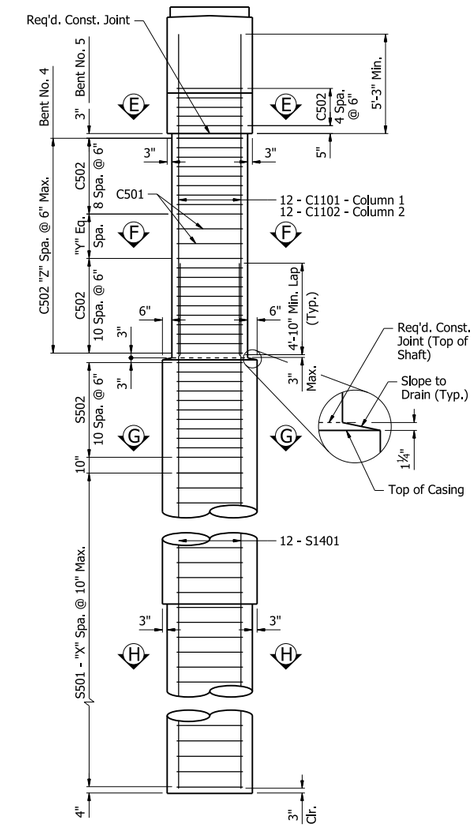
3. Contractor shall adjust B601 to B613 bar spacing to accommodate anchor bolts or sheet metal sleeves. B601 to B613 bars may be shifted up to one bar space or bundled with a neighboring stirrup. In no case shall the space between neighboring sets of stirrups exceed twice the detailed spacing.

TABLE OF VARIABLES

Bent No.	Column No.	"X"	"Y"	"Z"
4	1	35	-	12
	2		-	13
5	1	31	2	-
	2		3	-

TABLE OF VARIABLES

Bent No.	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"	"LL"	"M"	"N"	"P"	"R"	"S"	"T"	"U"	"V"	"W"
4	13'-5 11/16"	27'-6 9/16"	1'-11⅛"	8'-6 13/16"	433.17	433.62	433.81	434.00	434.19	434.36	433.98	421.00	406.00	386.00	47'-2"	12'-2⅛"	35'-0"	6'-3¾"	17'-0"	6'-4¼"	6'-9½"
5	13'-9¾"	27'-2¼"	2'-3 7/16"	7'-10⅝"	432.61	433.07	433.26	433.45	433.64	433.79	433.42	416.00	404.00	384.00	48'-7⅜"	16'-7⅜"	32'-0"	10'-9"	14'-0"	10'-9⅝"	11'-2¾"



END VIEW

Notes:
Dimensions, details, & reinforcing steel shown are typical for all columns and drilled shafts.

If column, cased section, or drilled shaft length changes during construction, number of ties shall be adjusted accordingly to maintain the maximum spacing in the regions identified above.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF BENT NOS. 4 & 5
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

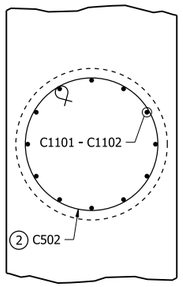
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 7/30/24
CHECKED BY: CCD DATE: 8/2/24
DESIGNED BY: QL DATE: 5/17/24
FILENAME: b040904x14_b41.dgn
SCALE: ¼" = 1'-0"

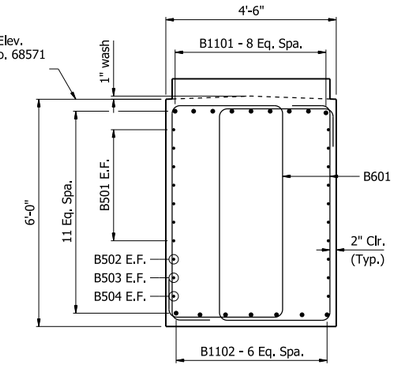
BRIDGE NO. 07694 DRAWING NO. 68571

PRINT DATE: 4/11/2026

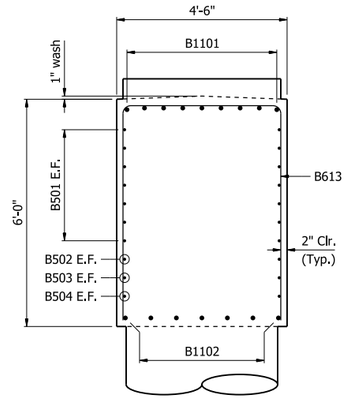
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	461	742
		07694 - INT. BENTS - 68572				



SECTION E-E
½" = 1'-0"
(Cap reinforcing not shown for clarity)

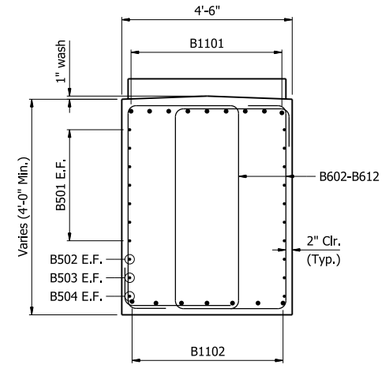


SECTION A-A
½" = 1'-0"
(Pedestal reinforcing not shown for clarity)

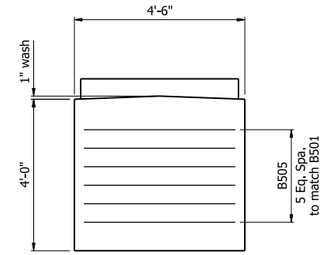


SECTION B-B
½" = 1'-0"
(Pedestal and column reinforcing not shown for clarity)

Note:
Contractor shall adjust B1101 and B1102 bar spacing to accommodate anchor bolts, sheet metal sleeves, or vertical column steel. Contractor shall maintain a minimum and maximum spacing of 4" and 10", respectively.



SECTION C-C
½" = 1'-0"



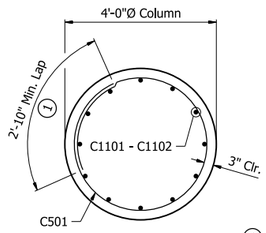
VIEW D-D
½" = 1'-0"

Notes:
For locations of "SECTION A-A" thru "SECTION C-C", "VIEW D-D", & "SECTION E-E" thru "SECTION H-H", see Dwg. No. 68571.

For "DETAILS OF ELASTOMERIC BEARINGS", see Dwg. Nos. 68599 & 68600.

TABLE OF VARIABLES

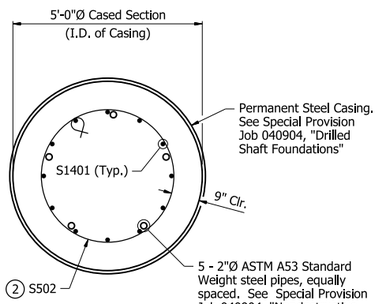
Bent No.	"CN1"	"CN2"	"CL1"	"CL2"	"SN"	"SL"
4	-	37	11'-5"	11'-10"	72	39'-10"
5	3	50	15'-10"	16'-3"	64	36'-10"



SECTION F-F
½" = 1'-0"

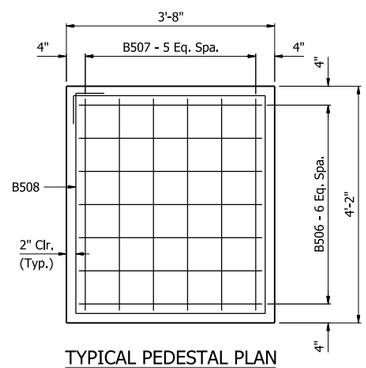
1 Location of lap splices in C501 & S501 ties shall be alternated 180° at adjacent ties.

2 Location of end hooks in C502 & S502 ties shall be alternated 180° at adjacent ties.



SECTION G-G
½" = 1'-0"

SECTION H-H
½" = 1'-0"

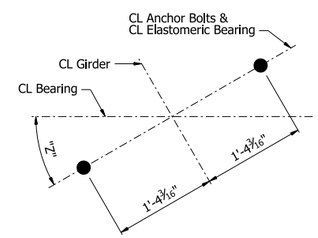


TYPICAL PEDESTAL PLAN
¾" = 1'-0"

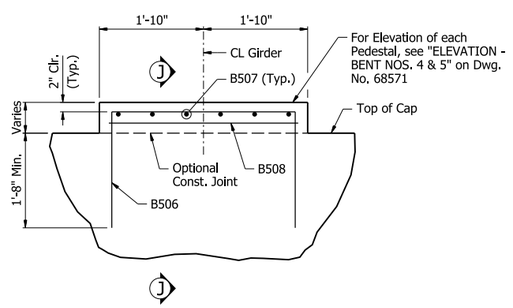
Note:
Contractor shall adjust B506 & B507 bar spacing to accommodate anchor bolts and sheet metal sleeves.

TABLE OF VARIABLES

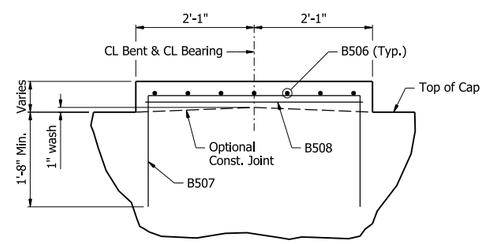
Girder	"Z"
1	30°00'00"
2	30°00'00"
3	30°00'00"
4	30°00'00"
5	30°18'22"



TYPICAL ANCHOR BOLT LAYOUT
1" = 1'-0"



TYPICAL PEDESTAL ELEVATION
¾" = 1'-0"

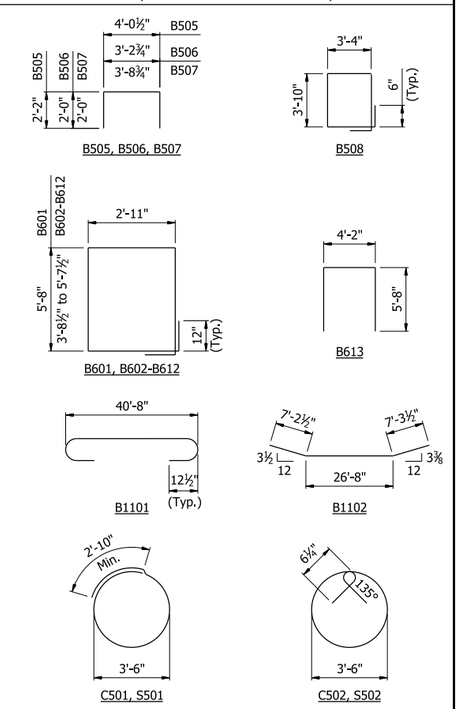


SECTION J-J
¾" = 1'-0"

BAR LIST - PER BENT

Mark	Number Required	Length	Pin Dia.
B501	14	40'-8"	Str.
B502	2	37'-11"	Str.
B503	2	34'-6"	Str.
B504	2	31'-0"	Str.
B505	12	8'-2"	2½"
B506	35	7'-0"	2½"
B507	30	7'-6"	2½"
B508	5	14'-10"	2½"
B601	60	18'-4"	4½"
B602 - B612	4 each	14'-5" to 18'-3"	4½"
B613	6	15'-2"	4½"
B1101	9	43'-9"	11¼"
B1102	7	41'-2"	11¼"
C501	"CN1"	13'-8"	-
C502	"CN2"	12'-4"	3¾"
C1101	12	"CL1"	Str.
C1102	12	"CL2"	Str.
3 S501	"SN"	13'-8"	-
3 S502	22	12'-4"	3¾"
3 S1401	24	"SL"	Str.

Bending Diagrams
(Dimensions are out to out of bars)



3 S1401 longitudinal reinforcement and S501 & S502 tie reinforcement are non-pay items which are subsidiary to item "DRILLED SHAFT (54" DIA.)". Individual lengths shall be determined by the Contractor.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF BENT NOS. 4 & 5
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

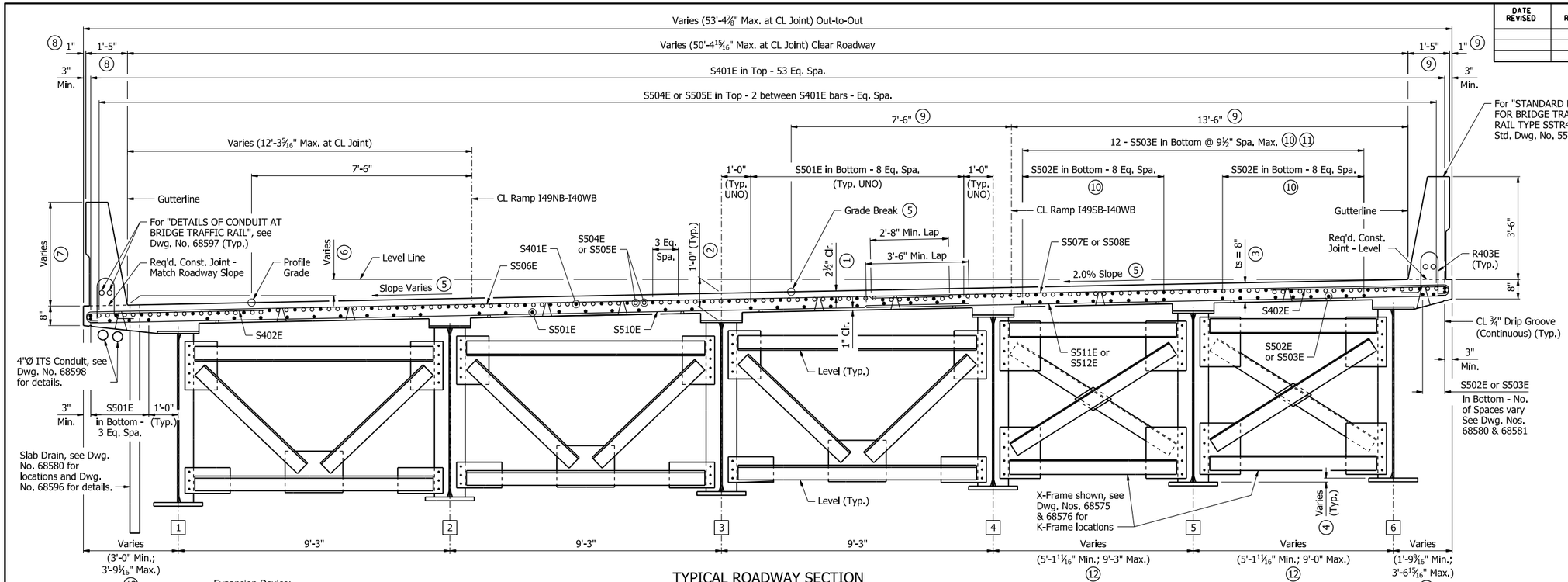
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 7/30/24
CHECKED BY: CCD DATE: 8/2/24
DESIGNED BY: QL DATE: 5/17/24
FILENAME: b040904x14_b42.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68572

PRINT DATE: 4/11/2026

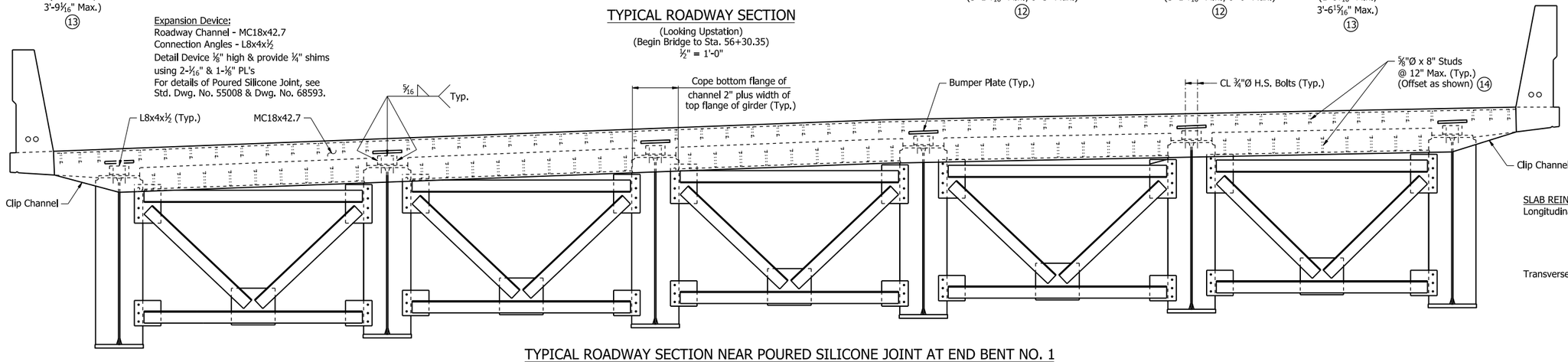
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	462	742
		07694 - UNIT 1 - 68573				



TYPICAL ROADWAY SECTION

(Looking Upstation)
(Begin Bridge to Sta. 56+30.35)
½" = 1'-0"

Expansion Device:
Roadway Channel - MC18x42.7
Connection Angles - L8x4x½
Detail Device ⅛" high & provide ¼" shims using 2-1/16" & 1-⅛" PL's
For details of Poured Silicone Joint, see Std. Dwg. No. 55008 & Dwg. No. 68593.



TYPICAL ROADWAY SECTION NEAR POURED SILICONE JOINT AT END BENT NO. 1

(Looking Upstation)
½" = 1'-0"

SLAB REINFORCING:
Longitudinal: S401E in Top placed as shown.
S504E and S505E in Top placed as shown over Intermediate Bents.
S501E, S502E, and S503E in Bottom placed as shown.

Transverse: S506E, S507E, and S508E in Top @ 6".
S510E, S511E, and S512E in Bottom @ 7½".
S402E in Top @ 6", Bundled with S506E, S507E, or S508E.

Place transverse bars as shown on reinforcing plans.

(4) 2¼" Typ. for 9'-3" Girder Spacing and 2% Cross Slope. All others vary, 1¼" Min. to 4 5/16" Max. Measured normal to CL Ramp I49NB-I40WB.

(5) See "SUPERELEVATION DIAGRAM", Dwg. No. 68556.

(6) 9 9/16" Min. measured normal to CL Ramp I49NB-I40WB at Sta. 56+30.35;
1'-6 9/16" Max. measured normal to CL Ramp I49NB-I40WB at intersection of CL Ramp I49NB-I40WB & CL Joint.

(7) Transitions from 3'-6 1/16" at Sta. 54+70.84 to 3'-6⅜" at Sta. 55+86.79. Constant 3'-6⅜" from Sta. 55+86.79 to Sta. 56+30.35.

(8) Measured normal to Gutterline.

(9) Measured radial to CL Ramp I49SB-I40WB.

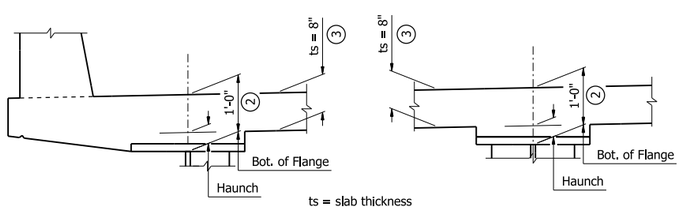
(10) See "DETAIL D" on Dwg. No. 68581 for longitudinal placement relative to Bent No. 2.

(11) Shift S503E to miss shear studs at Girder 5 and Termination Diaphragm.

(12) Min. - Measured normal to CL Ramp I49NB-I40WB at Termination Diaphragm;
Max. - Measured normal to CL Ramp I49NB-I40WB at CL Bearing

(13) Max. - Measured normal to CL Ramp I49NB-I40WB at CL Bearing

(14) For "DETAILS OF ALTERNATE ANCHORS", see Dwg. No. 68593.



ADJUSTMENT FOR SLAB THICKNESS TOLERANCE

¾" = 1'-0"

Notes:
All horizontal dimensions are measured normal to CL Ramp I49NB-I40WB, UNO.

Bar positions or clearances from the forms shall be maintained by means of stays, ties, hangers, or other approved devices per Subsection 804.06. Placement of slab bolsters or high-chairs with full-length lower runners directly on removable deck forms will not be allowed.

For details of Bridge Finishes and Protective Surface Treatment, see Dwg No. 68476.

For "PARTIAL REINFORCING PLAN AND POURING SEQUENCE", see Dwg. Nos. 68580 & 68581.

K-Frames shown. For K-Frames details, see Dwg. No. 68592. For X-Frame details, see Dwg. No. 68577. For Termination Diaphragm details, see Dwg. No. 68578.

(1) Tolerance: Minus = ¼"; Plus equal to the amount of slab thickening used to meet slab thickness tolerance. See "ADJUSTMENT FOR SLAB THICKNESS TOLERANCE".

(2) Haunch dimensions may vary within the following limits to maintain the grade and slab thickness tolerance:

Top Flange	Haunch Adjustment Tolerance	
	Plus	Minus
⅞" x 17"	½"	2¼"
1½" x 24"	1¼"	1¾"
2¼" x 24"	2"	1"

No increase in concrete and structural steel quantities will be made to maintain tolerances. Tolerances shown are applicable for both removable deck forming and permanent steel deck forms. Payment for concrete shall be based on removable deck forming.

(3) Tolerance: Minus = ¼"; Plus = ½". Haunch forming is required and shall be adjusted to maintain slab thickness tolerance.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 10
DETAILS OF 317'-0" CONTINUOUS
PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

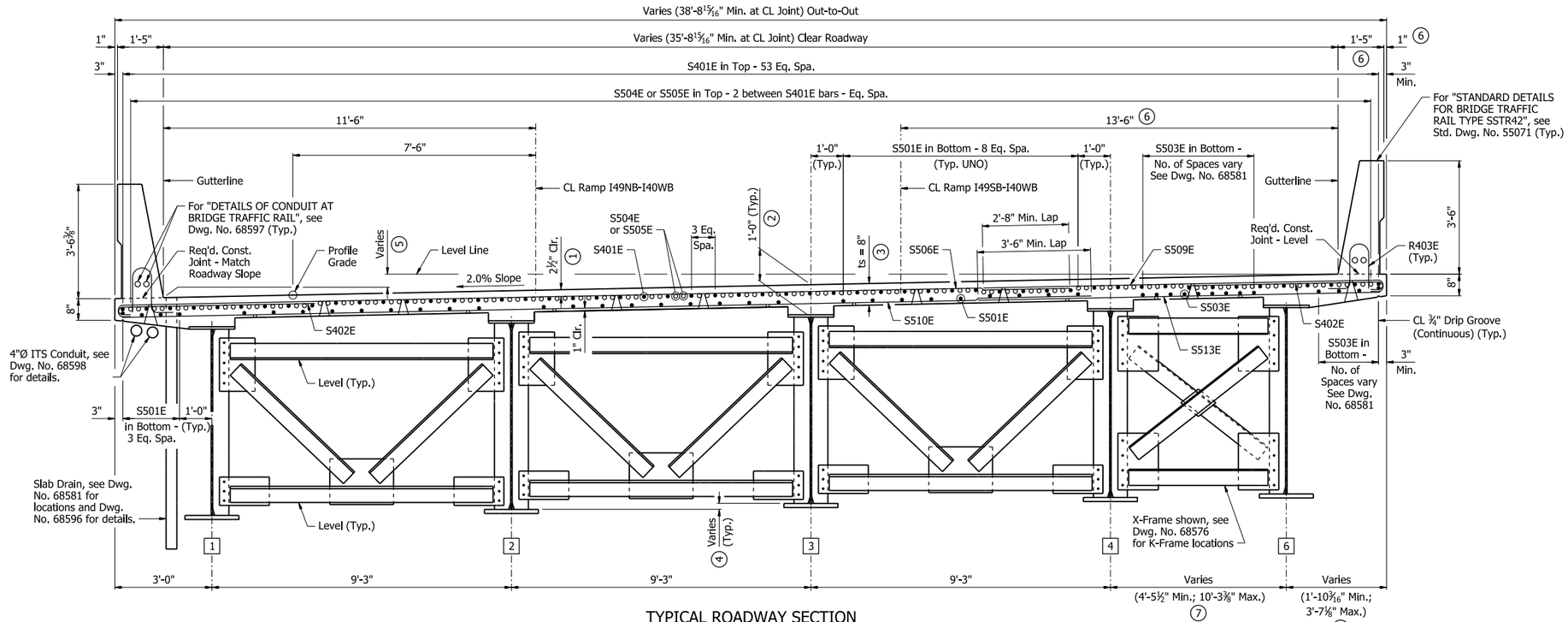
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY:	CEM	DATE:	7/5/24	FILENAME:	b040904x14_s11.dgn
CHECKED BY:	AMW	DATE:	7/15/24	SCALE:	AS NOTED
DESIGNED BY:	RCR	DATE:	7/21/22		

BRIDGE NO. 07694 DRAWING NO. 68573

PRINT DATE: 3/30/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	463	742
		07694 - UNIT 1 - 68574				



TYPICAL ROADWAY SECTION

(Looking Upstation)
(Sta. 56+30.35 to End Unit)
½" = 1'-0"

(4) 2¼" Typ. for 9'-3" Girder Spacing and 2% Cross Slope. All others vary, 1 1/16" Min. to 2 7/16" Max. Measured normal to CL Ramp I49NB-I40WB.

(5) 8½" Min. measured normal to CL Ramp I49NB-I40WB at intersection of CL Ramp I49NB-I40WB & CL Joint; 9 9/16" Max. measured normal to CL Ramp I49NB-I40WB at Sta. 56+30.35.

(6) Measured radial to CL Ramp I49SB-I40WB.

(7) Min. - Measured normal to CL Ramp I49NB-I40WB at CL Bearing;
Max. - Measured normal to CL Ramp I49NB-I40WB at Sta. 56+30.35

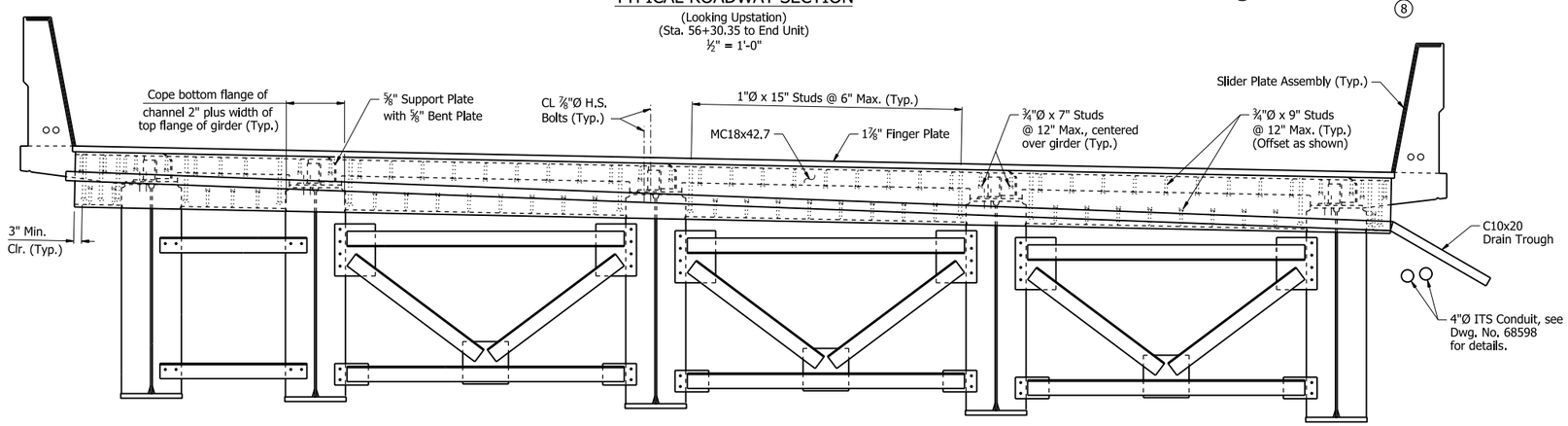
(8) Min. - Measured normal to CL Ramp I49NB-I40WB at Sta. 56+30.35;
Max. - Measured normal to CL Ramp I49NB-I40WB at CL Bearing

SLAB REINFORCING;

Longitudinal: S401E in Top, placed as shown.
S504E and S505E in Top, placed as shown over Intermediate Bents.
S503E in Bottom, placed as shown.

Transverse: S506E and S509E in Top @ 6" or 5".
S510E and S513E in Bottom @ 7½" or 6½".
S402E in Top @ 6" or 15", Bundled with S506E or S509E.

Place transverse bars as shown on reinforcing plans.



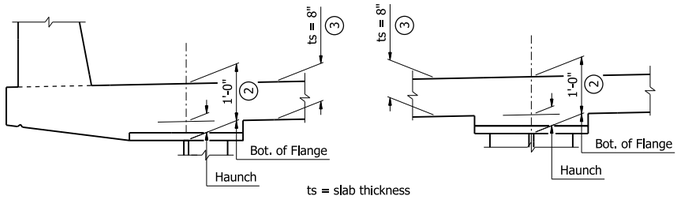
TYPICAL ROADWAY SECTION NEAR FINGER JOINT AT BENT NO. 3

(Looking Downstation)
½" = 1'-0"

Expansion Device:
Roadway Channel - MC18x42.7
Connection - ⅝" Support Plate and ⅝" Bent Support Plate

For Finger Joint Details, see Dwg. Nos. 68594 & 68595.

Maintain 2" cover between Girder Flange edge and Studs. Studs shall be normal to CL Joint, except for Studs closest to the acute corner edge may run parallel to the edge of the finger plate.



EXTERIOR GIRDER

INTERIOR GIRDER

ADJUSTMENT FOR SLAB THICKNESS TOLERANCE

¾" = 1'-0"

Notes:
All horizontal dimensions are measured normal to CL Ramp I49NB-I40WB, UNO.

Bar positions or clearances from the forms shall be maintained by means of stays, ties, hangers, or other approved devices per Subsection 804.06. Placement of slab bolsters or high-chairs with full-length lower runners directly on removable deck forms will not be allowed.

For details of Bridge Finishes and Protective Surface Treatment, see Dwg. No. 68476.

For "PARTIAL REINFORCING PLAN AND POURING SEQUENCE", see Dwg. No. 68581.

For K-Frame details, see Dwg. No. 68592. For X-Frame details, see Dwg. No. 68577. For Termination Diaphragm details, see Dwg. No. 68578.

(1) Tolerance: Minus = ¼"; Plus equal to the amount of slab thickening used to meet slab thickness tolerance. See "ADJUSTMENT FOR SLAB THICKNESS TOLERANCE".

(2) Haunch dimensions may vary within the following limits to maintain the grade and slab thickness tolerance:

Top Flange	Haunch Adjustment Tolerance	
	Plus	Minus
⅞" x 17"	½"	2¼"
1½" x 24"	1¼"	1¾"
2¼" x 24"	2"	1"

No increase in concrete and structural steel quantities will be made to maintain tolerances. Tolerances shown are applicable for both removable deck forming and permanent steel deck forms. Payment for concrete shall be based on removable deck forming.

(3) Tolerance: Minus = ¼"; Plus = ½". Haunch forming is required and shall be adjusted to maintain slab thickness tolerance.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 10
DETAILS OF 317'-0" CONTINUOUS
PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

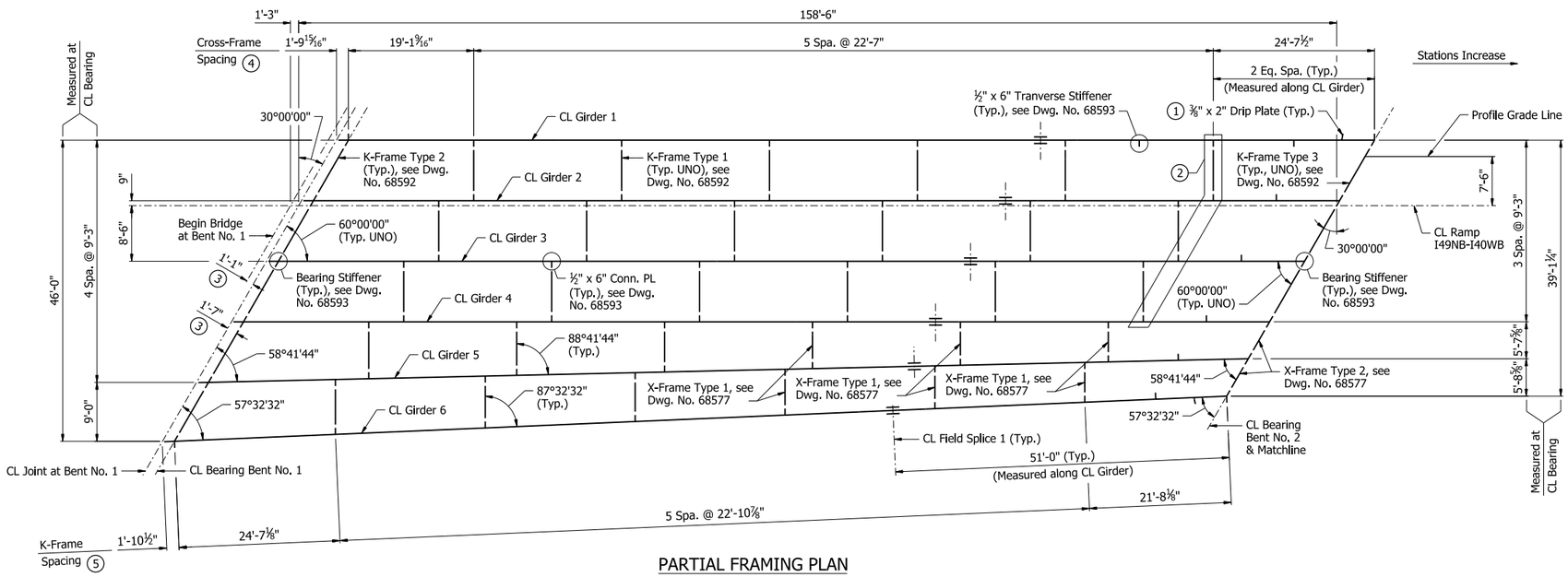
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 7/5/24
CHECKED BY: AMW DATE: 7/15/24
DESIGNED BY: RCR DATE: 7/21/22
FILENAME: b040904x14_s12.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68574

PRINT DATE: 3/30/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	464	742
		07694 - UNIT 1 - 68575				



PARTIAL FRAMING PLAN

3/32" = 1'-0"

Notes:
All Structural Steel shall be ASTM A709, Grade 50W unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)."

For "DETAILS OF FIELD SPLICES", see Dwg. No. 68591.

For Dead Load Deflections, see Dwg. No. 68579.

Longitudinal dimensions in the Framing Plan are horizontal and measured along CL Ramp I49NB-I40WB, UNO.

Longitudinal dimensions in the Girder Elevation are horizontal and measured along CL Girder, UNO.

Transverse dimensions are measured normal to CL Ramp I49NB-I40WB.

All intermediate cross frames and diaphragms are normal to CL Ramp I49NB-I40WB.

All transverse stiffeners are normal to CL Girder.

For plan view of top flange at end of girder at Bent No. 1, see "STANDARD DETAILS FOR POURED SILICONE JOINTS", see Std. Dwg. No. 55008.

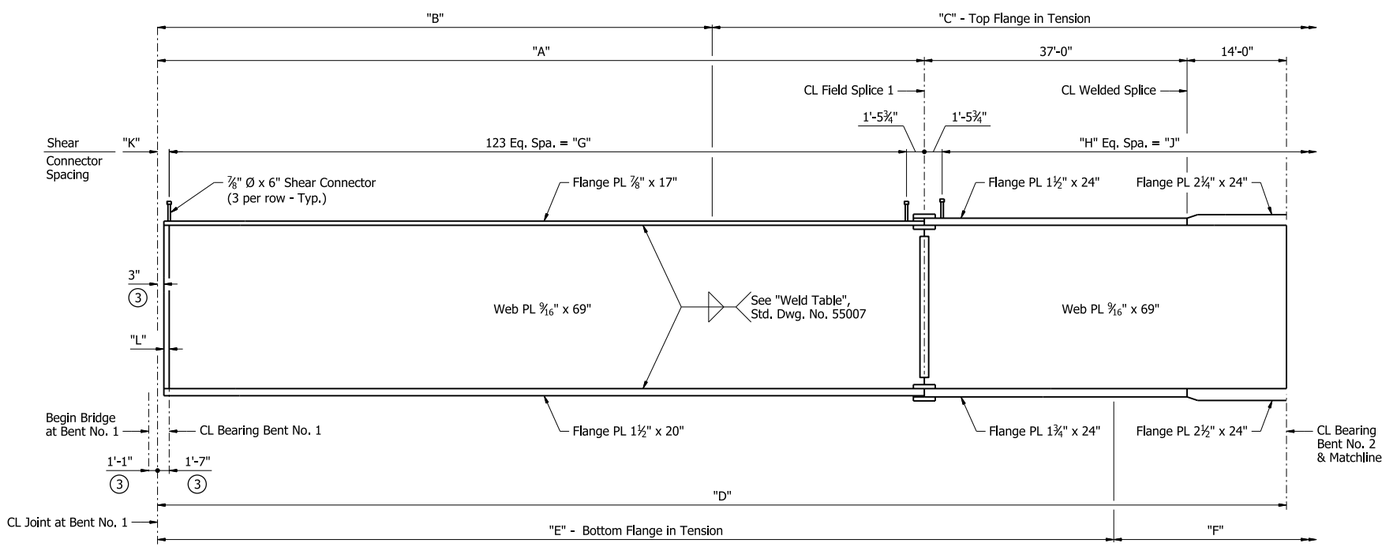
(1) Drip plates shall be placed on the up-hill side of each bent. Stop weld 1" from edge of flange. See Std. Dwg. No. 55007 for additional details.

(2) Connection Plates acting as transverse stiffeners.

(3) Normal to CL Joint.

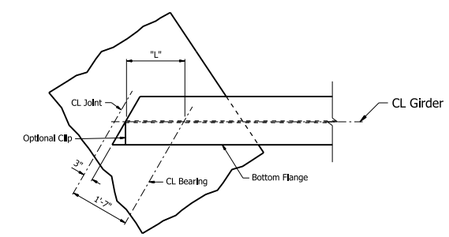
(4) Measured along right face of Girders 1 thru 4.

(5) Measured along CL of Girder 6.



PARTIAL GIRDER ELEVATION

No Scale



PLAN AT BENT NO. 1

½" = 1'-0"

TABLE OF VARIABLES

Girder	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"
1-4	107'-6"	78'-7 7/16"	163'-0"	158'-6"	134'-2"	50'-8"	104'-2 5/16"	96	99'-0½"	1'-9 15/16"	1'-6½"
5	109'-7 13/16"	90'-4¼"	92'-0"	160'-7 13/16"	134'-2"	48'-2¼"	106'-3 13/16"	68	69'-10 11/16"	1'-10¼"	1'-6¾"
6	111'-8⅛"	91'-3⅜"	170'-0"	162'-8⅝"	140'-3"	57'-10¼"	108'-3⅞"	96	99'-0½"	1'-10½"	1'-6 15/16"

STATE OF ARKANSAS
Ann Wagner
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 3 OF 10
DETAILS OF 317'-0" CONTINUOUS
PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 5/20/24
CHECKED BY: KBJ DATE: 6/21/24
DESIGNED BY: JRR DATE: 11/12/23
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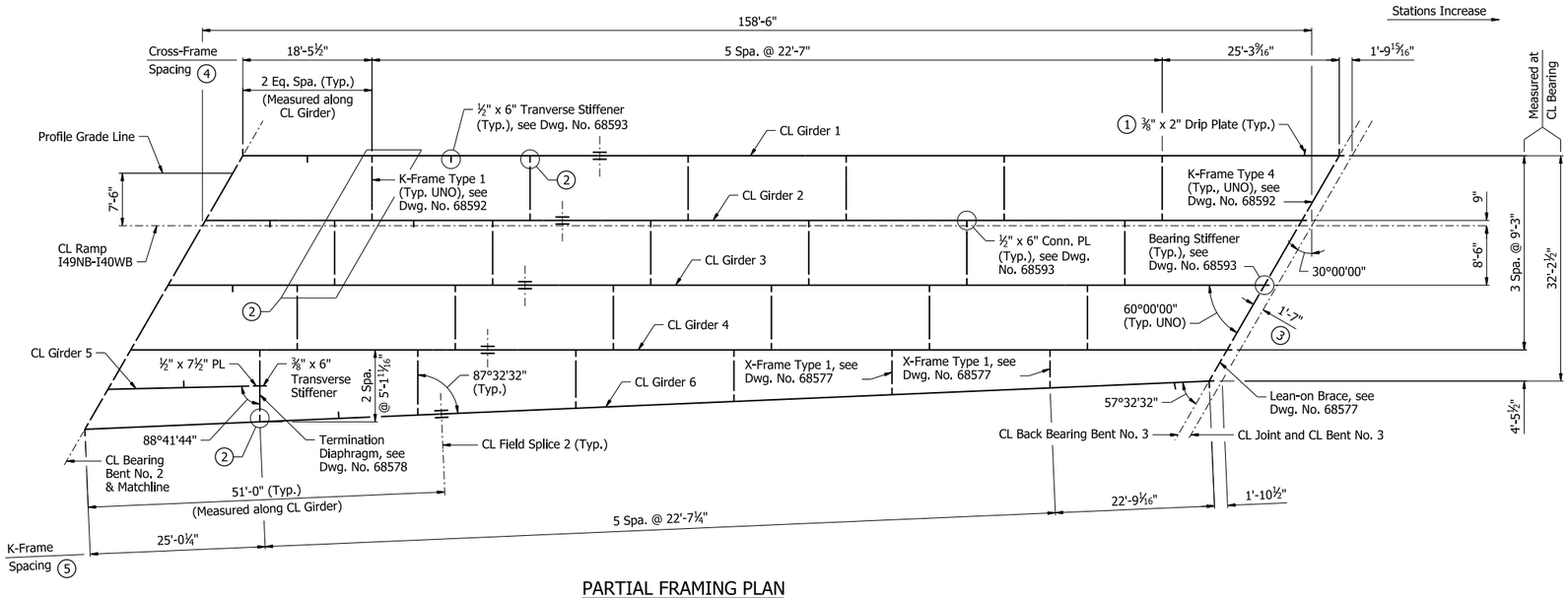
		6	ARK.	040904	465	742
		07694 - UNIT 1 - 68576				

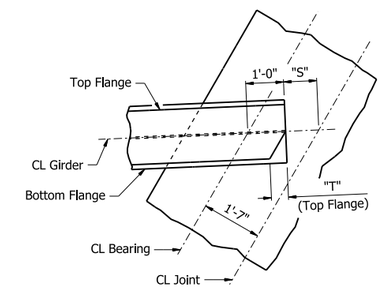
Notes:
For additional notes, see Dwg. No. 68575.

1. Drip plates shall be placed on the up-hill side of each bent. Stop weld 1" from edge of flange. See Std. Dwg. No. 55007 for additional details.
2. Connection Plates acting as transverse stiffeners.
3. Normal to CL Joint.
4. Measured along right face of Girders 1 thru 4.
5. Measured along CL of Girder 6.



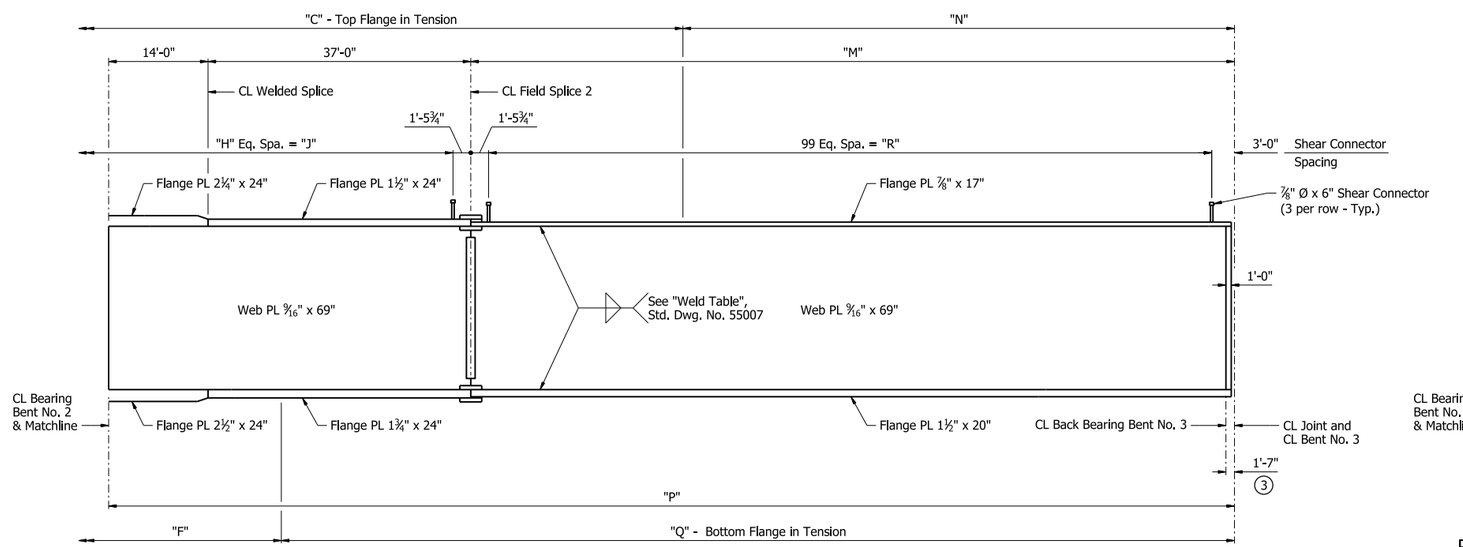
PARTIAL FRAMING PLAN

3⁄32" = 1'-0"



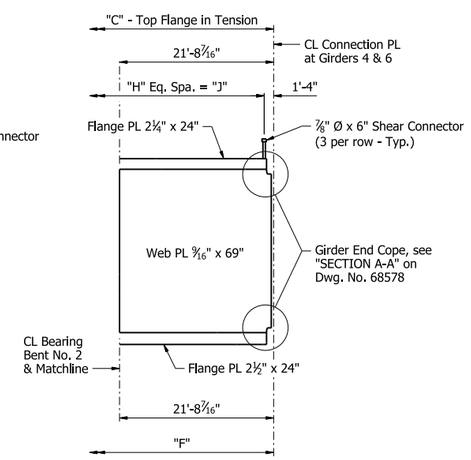
PLAN AT BENT NO. 3

½" = 1'-0"



PARTIAL GIRDER ELEVATION - GIRDERS 1-4 & 6

No Scale



PARTIAL GIRDER ELEVATION - GIRDER 5

No Scale

TABLE OF VARIABLES

Girder	"M"	"N"	"P"	"Q"	"R"	"S"	"T"
1-4	107'-6"	75'-4⁹⁄₁₆"	158'-6"	132'-2"	103'-0¼"	9¹⁵⁄₁₆"	4¹⁵⁄₁₆"
6	111'-8⅛"	64'-1⅛"	162'-8⅛"	127'-3"	107'-2⅜"	10½"	5⁷⁄₁₆"

Note:
For variables not shown, see Dwg. No. 68575

STATE OF ARKANSAS
Allie Wagner
PROFESSIONAL ENGINEER
★★★
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 4 OF 10
DETAILS OF 317'-0" CONTINUOUS
PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 5/20/24
CHECKED BY: KBJ DATE: 6/21/24
DESIGNED BY: JRR DATE: 11/12/23
FILENAME: b040904x14_s14.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68576

PRINT DATE: 3/30/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	466	742
		07694 - UNIT 1 - 68577				

Notes:
All Structural Steel shall be ASTM A709, Grade 50W unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)."

For location of X-Frames and Lean-on Brace, see Dwg. Nos. 68575 & 68576.

All bolts shall be ASTM F3125, Gr. A325, 1"Ø H.S. bolts.

All holes shall be drilled for X-Frames and Lean-on Brace connections and shall be 1⅛"Ø.

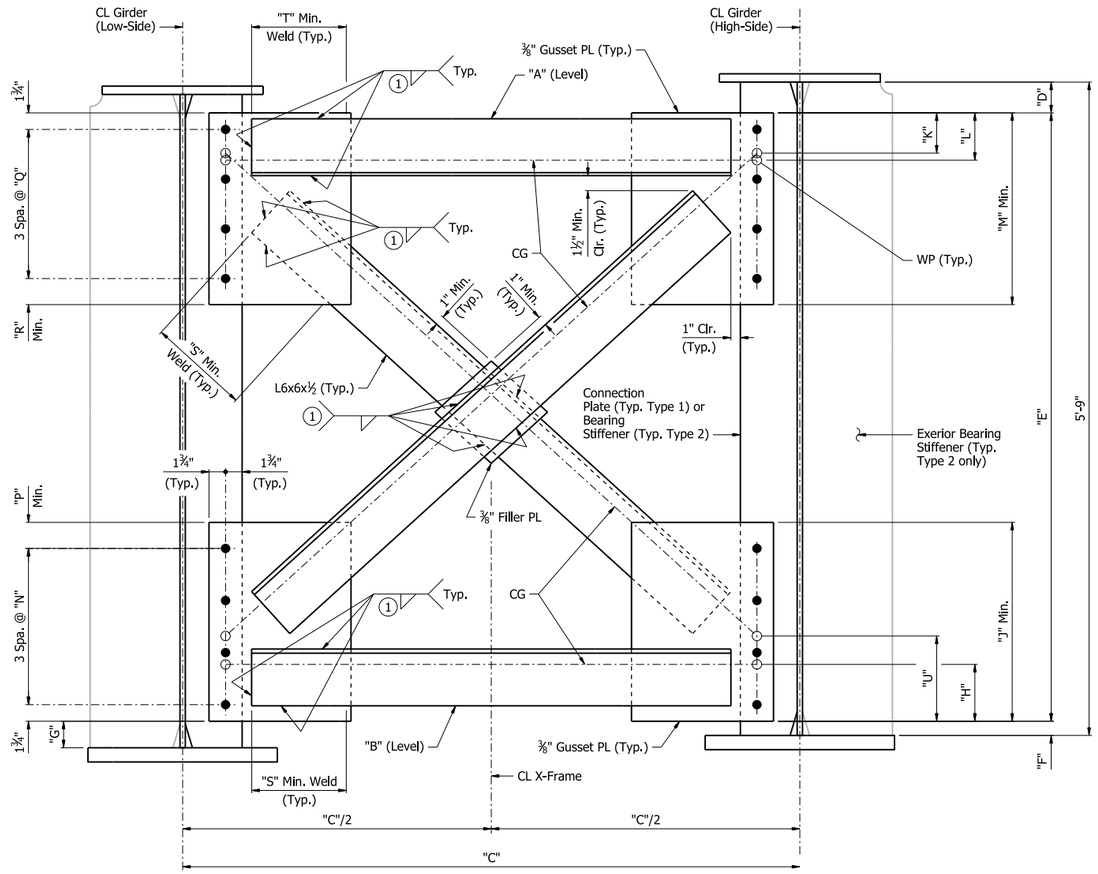
For Connection Plate and Bearing Stiffener details, see Dwg. No. 68593.

X-Frames and Lean-on Brace are symmetric about CL, UNO.

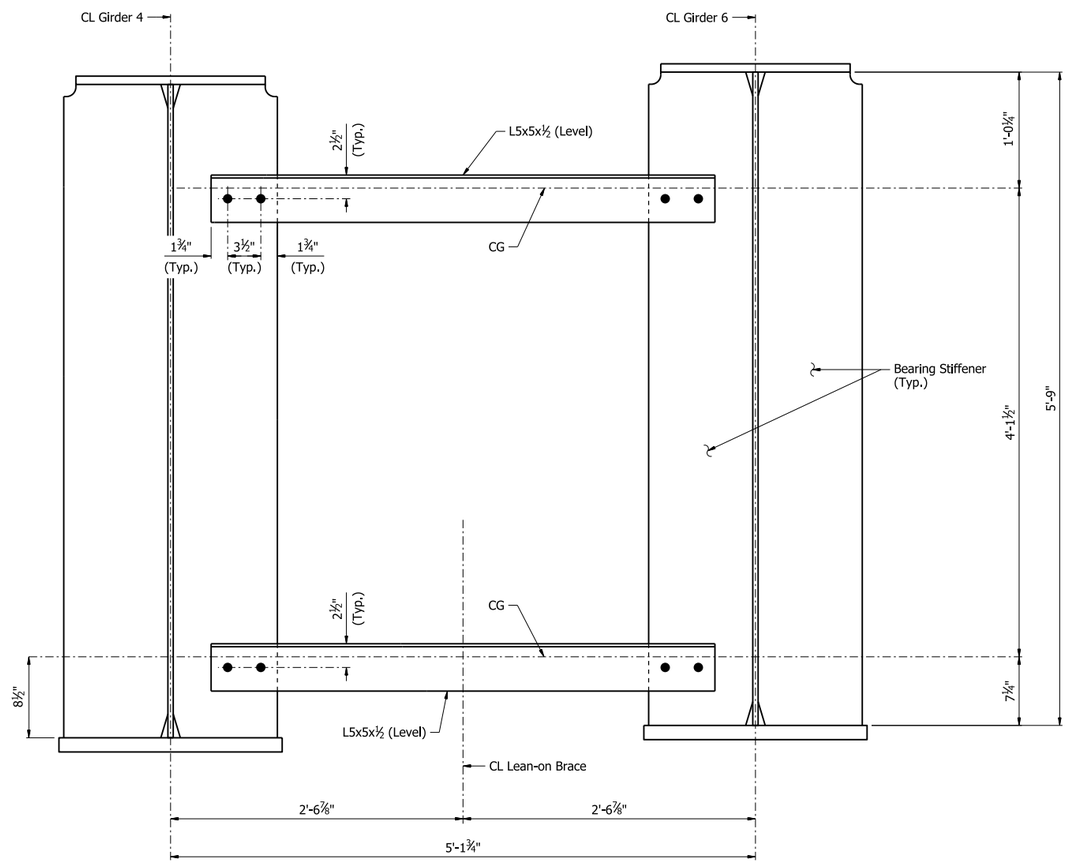
Fabricator shall size Gusset PL to satisfy minimum edge distances and clear distances. Gusset PL shape can be rectangular or incorporate clips as needed.

(1) See "WELD TABLE", Std. Dwg. No. 55007.

(2) Minimum "K" & "U" corresponds to minimum "C". Maximum "K" & "U" corresponds to maximum "C". Vary dimensions "K" & "U" linearly (+/- ⅛") from minimum to maximum "C".



DETAIL OF X-FRAMES
(Type 1 shown, Type 2 similar)



DETAIL OF LEAN-ON BRACE

TABLE OF VARIABLES

X-Frame Type	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K" (2)	"L"	"M"	"N"	"P"	"Q"	"R"	"S"	"T"	"U" (2)
1	L6x6x½	L6x6x½	Varies	3¼"	5'-4¼"	1½"	Varies	5"	1'-5¾"	4¼" Min.; 6¾" Max.	5"	1'-5¾"	4½"	2½"	4½"	2½"	6½"	4½"	8" Min.; 9¾" Max.
2	L5x5x⅜	L5x5x⅜	Varies	3½"	5'-3"	2½"	4 1/16"	5¼"	1'-4"	4½"	5¼"	1'-4"	4"	2¼"	4"	2¼"	4"	4"	8"

STATE OF ARKANSAS
Allie Wagner
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 5 OF 10
DETAILS OF 317'-0" CONTINUOUS
PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 5/20/24
CHECKED BY: KBJ DATE: 5/29/24
DESIGNED BY: JRR DATE: 11/12/23
FILENAME: b040904x14_s15.dgn
SCALE: 1½" = 1'-0"
BRIDGE NO. 07694 DRAWING NO. 68577

PRINT DATE: 4/9/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	467	742
		07694 - UNIT 1 - 68578				

Notes:
All Structural Steel shall be ASTM A709, Grade 50W unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)."

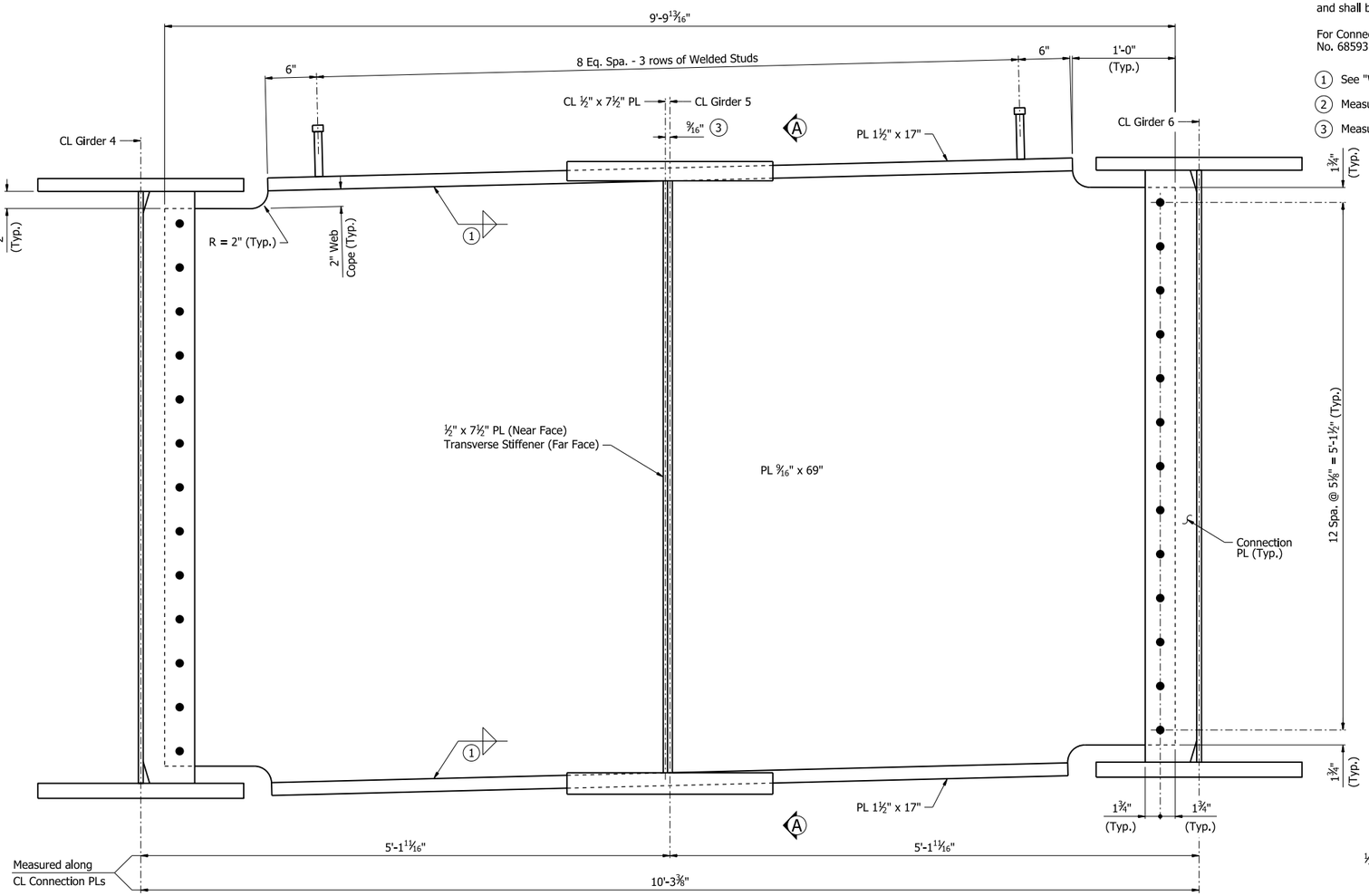
For location of Termination Diaphragm, see Dwg. No. 68576.

All bolts shall be ASTM F3125, Gr. A325, 1"Ø H.S. bolts.

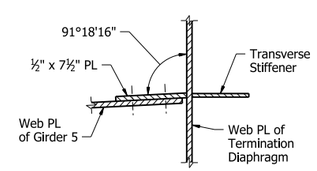
All holes shall be drilled for Termination Diaphragm connection and shall be 1⅛"Ø.

For Connection Plate and Transverse Stiffener details, see Dwg. No. 68593.

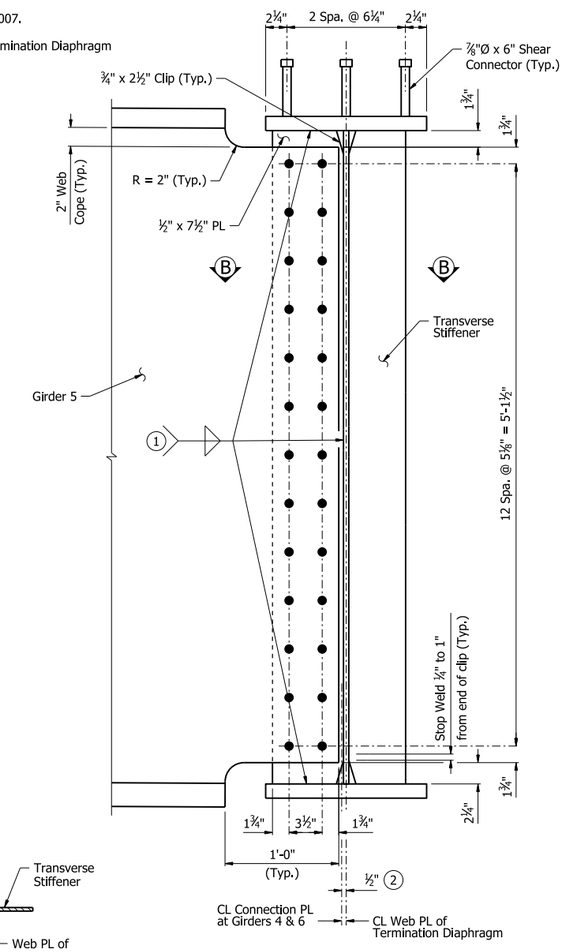
(1) See "WELD TABLE", Std. Dwg. No. 55007.
(2) Measured normal to CL Web PL of Termination Diaphragm
(3) Measured normal to CL Girder 5



DETAIL OF TERMINATION DIAPHRAGM



SECTION B-B



SECTION A-A

STATE OF ARKANSAS
Allie Wagner
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 6 OF 10
DETAILS OF 317'-0" CONTINUOUS
PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 5/20/24
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FILENAME: b040904x14_s16.dgn
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BRIDGE NO. 07694 DRAWING NO. 68578

PRINT DATE: 4/9/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	468	742
		07694 - UNIT 1 - 68579				

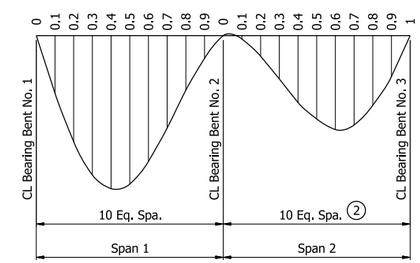
TABLE OF DEAD LOAD DEFLECTIONS (INCHES)

Span	Point of Deflection	Structural Steel						Structural Steel + Slab						Structural Steel + Slab + Rail					
		Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6
Span 1	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.1	0.302	0.332	0.357	0.378	0.401	0.420	1.277	1.356	1.412	1.427	1.443	1.447	1.455	1.435	1.462	1.491	1.557	1.648
	0.2	0.552	0.606	0.654	0.699	0.741	0.777	2.327	2.476	2.583	2.634	2.656	2.663	2.652	2.629	2.677	2.752	2.864	3.019
	0.3	0.712	0.786	0.854	0.918	0.974	1.025	2.995	3.205	3.362	3.443	3.477	3.491	3.416	3.414	3.487	3.597	3.744	3.939
	0.4	0.768	0.852	0.933	1.010	1.077	1.139	3.219	3.466	3.663	3.771	3.820	3.847	3.681	3.701	3.800	3.937	4.105	4.324
	0.5	0.719	0.805	0.891	0.977	1.047	1.116	2.999	3.262	3.483	3.623	3.688	3.733	3.445	3.492	3.612	3.775	3.951	4.181
	0.6	0.581	0.661	0.745	0.832	0.898	0.965	2.414	2.665	2.894	3.059	3.135	3.193	2.792	2.861	2.998	3.177	3.345	3.563
	0.7	0.394	0.458	0.530	0.609	0.665	0.724	1.626	1.838	2.043	2.216	2.298	2.366	1.900	1.977	2.112	2.290	2.438	2.627
	0.8	0.203	0.248	0.301	0.363	0.404	0.446	0.837	0.988	1.148	1.306	1.378	1.442	0.995	1.065	1.180	1.337	1.447	1.588
	0.9	0.058	0.081	0.109	0.146	0.168	0.189	0.244	0.322	0.410	0.515	0.564	0.605	0.300	0.347	0.417	0.519	0.581	0.656
Span 2	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.1	0.088	0.066	0.036	-0.018	-0.029	-0.058	0.316	0.242	0.136	-0.056	-0.097	-0.195	0.365	0.262	0.158	-0.028	-0.075	-0.154
	0.2	0.261	0.219	0.164	0.073	-0.036	-0.013	0.975	0.838	0.634	0.293	-0.116	-0.035	1.121	0.911	0.699	0.378	-0.061	0.091
	0.3	0.474	0.417	0.342	0.233	-	0.124	1.811	1.620	1.335	0.899	-	0.448	2.075	1.765	1.456	1.057	-	0.684
	0.4	0.677	0.611	0.525	0.408	-	0.292	2.622	2.400	2.064	1.563	-	1.048	2.996	2.616	2.240	1.792	-	1.385
	0.5	0.818	0.750	0.663	0.550	-	0.442	3.197	2.970	2.621	2.099	-	1.584	3.649	3.240	2.836	2.376	-	1.988
	0.6	0.860	0.799	0.722	0.620	-	0.529	3.386	3.183	2.862	2.359	-	1.894	3.865	3.473	3.089	2.651	-	2.315
	0.7	0.789	0.741	0.678	0.594	-	0.525	3.120	2.963	2.692	2.254	-	1.881	3.564	3.233	2.901	2.521	-	2.264
	0.8	0.607	0.573	0.528	0.469	-	0.424	2.405	2.296	2.102	1.776	-	1.517	2.754	2.506	2.261	1.979	-	1.813
	0.9	0.331	0.314	0.292	0.261	-	0.238	1.315	1.263	1.163	0.986	-	0.852	1.510	1.378	1.248	1.094	-	1.015
	1.0	0.000	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.000

Notes:
Camber for dead load deflection +/- ¼" tolerance. Deflections shown are along CL Girder from a chord from CL Bearing to CL Bearing. Negative sign (-) indicates point above chord. Vertical curve corrections are not included. Superelevation transition corrections not included.

Tabulated values shown require an adjustment for cross-slope to girders to achieve proper camber.

The additional weight for the permanent steel deck forms are included in the slab dead load deflections. Revisions to the deflection tables may be necessary upon review of the Contractor's submitted forming details.



DEAD LOAD DEFLECTION DIAGRAM

2 2 Eq. Spa. (Girder 5 only)

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 7 OF 10
DETAILS OF 317'-0" CONTINUOUS
PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

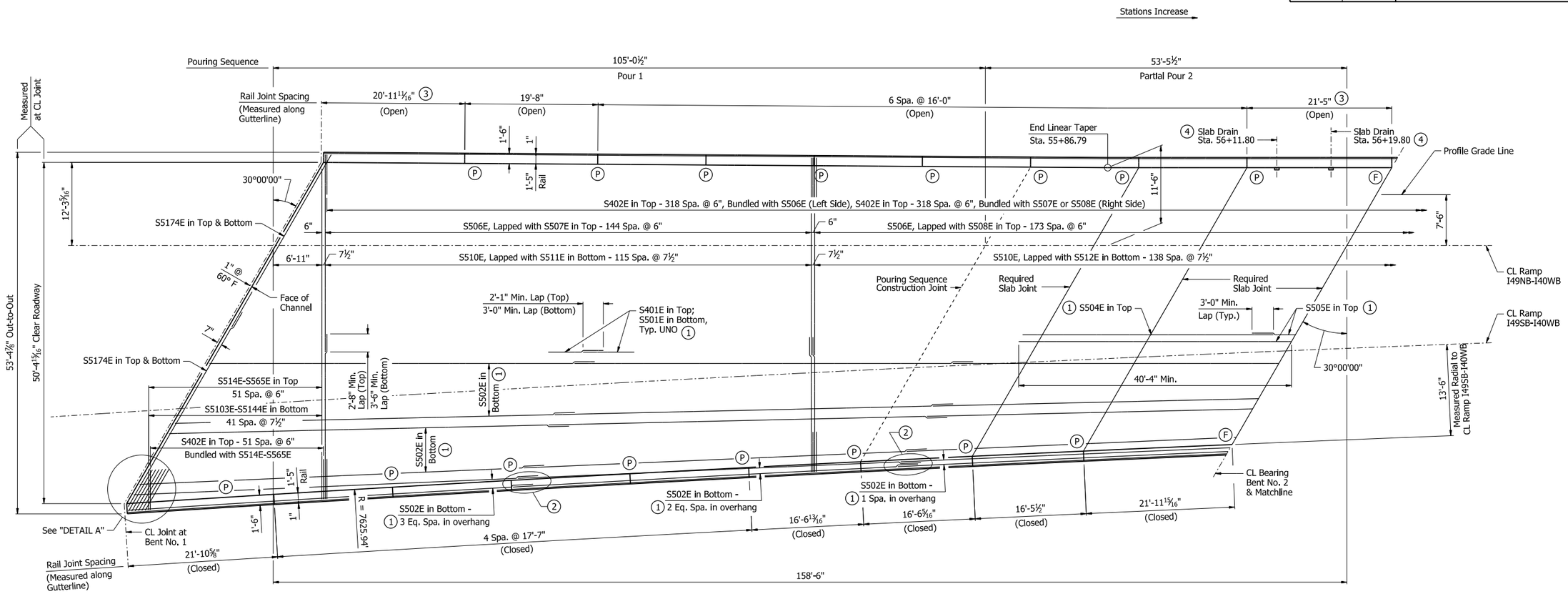
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 5/20/24
CHECKED BY: KBJ DATE: 5/29/24
DESIGNED BY: JRR DATE: 11/12/23
FILENAME: b040904x14_s17.dgn
SCALE: No Scale

BRIDGE NO. 07694 DRAWING NO. 68579

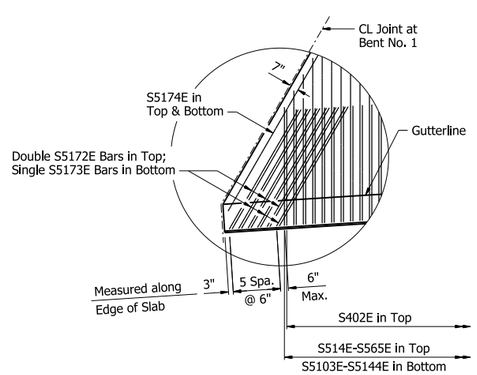
PRINT DATE: 4/7/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	469	742
		07694 - UNIT 1 - 68580				



PARTIAL REINFORCING PLAN AND POURING SEQUENCE

⅛" = 1'-0"



DETAIL A

¼" = 1'-0"

Slab Pouring Sequence Notes:
Pours with the same number may be placed simultaneously or separately. All pours must be placed in order sequentially. A minimum of 48 hours shall elapse between the end of a pour and the start of the next pour. A minimum of 72 hours shall elapse between the end of a pour and the start of an adjacent pour.

Concrete in bridge superstructure shall be placed, consolidated, and screeded off for the entire pour before any concrete has taken its initial set. This may require the use of a retarding agent.

For pours adjacent to Poured Silicone Joints, see Std. Dwg. No. 55008 to coordinate pours with joint installation.

A minimum of 72 hours shall elapse between completion of the slab and the pouring of the bridge railing. Any railing pours made before the entire slab unit has been placed must be approved by the Engineer. The Contractor must obtain approval from the Engineer for any deviations from the pouring sequence(s) shown.

Notes:
Required slab joints and pouring sequence joints shall align with rail joints at the gutterline.

All longitudinal dimensions are along CL Ramp I49NB-I40WB, UNO.

All transverse reinforcing steel shall be placed normal to CL Ramp I49NB-I40WB, unless shown otherwise.

All transverse dimensions are measured normal to CL Ramp I49NB-I40WB, UNO.

For details of slab drains, see Dwg. No. 68596.

For "TRANSVERSE SLAB JOINT DETAIL", see Std. Dwg. No. 55007.

For "STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSTR42", see Std. Dwg. No. 55071.

For "STANDARD DETAILS FOR POURED SILICONE JOINTS", see Std. Dwg. No. 55008.

(1) Place as shown in "TYPICAL ROADWAY SECTION", see Dwg. No. 68573.

(2) Non-contact overlap must be 3'-0" Min. for bottom bars.

(3) Special panel, see Dwg. No. 68582 for details.

(4) Field cut slab reinforcement to miss slab drains. Rotate R403E to miss deck drains.

(F) CL Full-Depth Rail Joint

(P) CL Partial-Depth Rail Joint

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
5/4/26
BRIDGE ENGINEER

SHEET 8 OF 10
DETAILS OF 317'-0" CONTINUOUS
PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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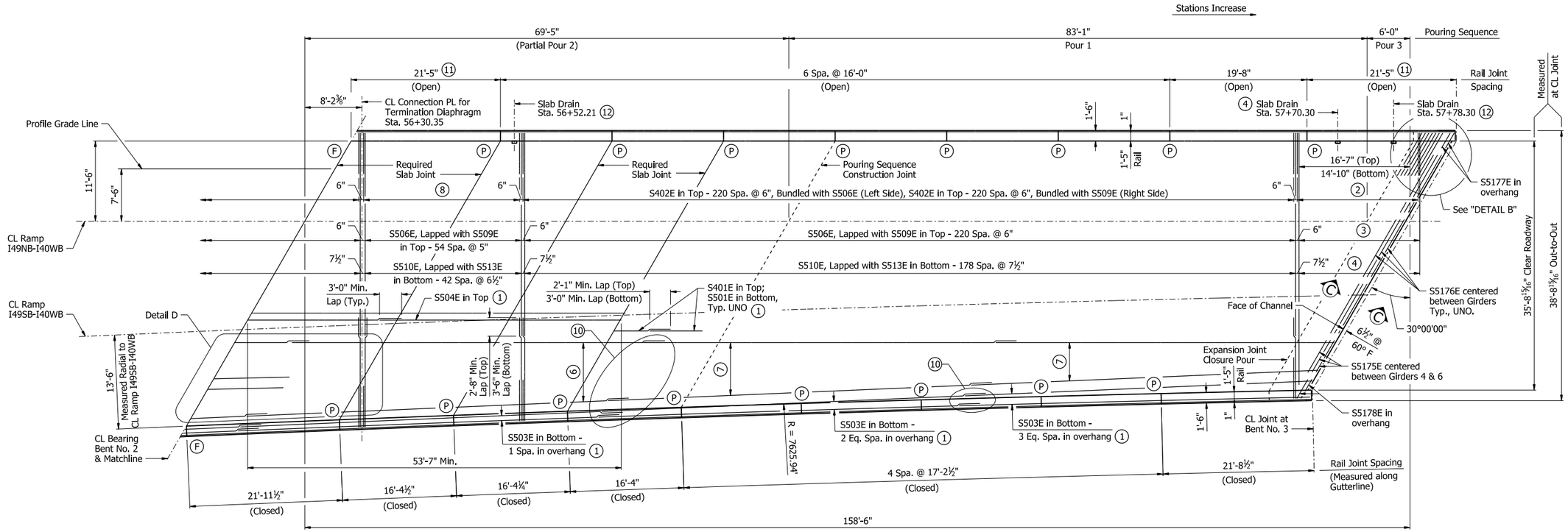
CHECKED BY:	AMW	DATE:	7/11/24	SCALE:	AS NOTED
DESIGNED BY:	RCR	DATE:	7/21/22		

BRIDGE NO. 07694 DRAWING NO. 68580

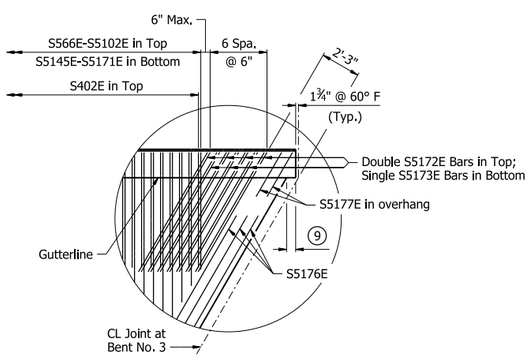
PRINT DATE: 4/2/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	470	742
		07694 - UNIT 1 - 68581				



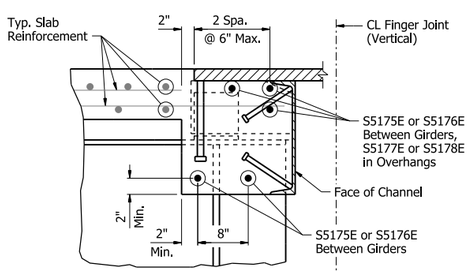
PARTIAL REINFORCING PLAN AND POURING SEQUENCE

⅛" = 1'-0"



DETAIL B

¼" = 1'-0"



SECTION C-C

1" = 1'-0"

Slab Pouring Sequence Notes:
Pours with the same number may be placed simultaneously or separately. All pours must be placed in order sequentially. A minimum of 48 hours shall elapse between the end of a pour and the start of the next pour. A minimum of 72 hours shall elapse between the end of a pour and the start of an adjacent pour.

Concrete in bridge superstructure shall be placed, consolidated, and screeded off for the entire pour before any concrete has taken its initial set. This may require the use of a retarding agent.

After all incremental pours on both Units adjacent to the Finger Joint are complete, closure pour 3 on each side of the Finger Joint shall be poured simultaneously. For details of Finger Joint, see Dwg. Nos. 68594 & 68595. A minimum of 48 hours shall elapse between the last incremental pour and the closure pours.

A minimum of 72 hours shall elapse between completion of the slab and the pouring of the bridge railing. Any railing pours made before the entire slab unit has been placed must be approved by the Engineer. The Contractor must obtain approval from the Engineer for any deviations from the pouring sequence(s) shown.

Notes:
Required slab joints and pouring sequence joints shall align with rail joints at the gutterline.

All longitudinal dimensions are along CL Ramp I49NB-I40WB, UNO.

All transverse reinforcing steel shall be placed normal to CL Ramp I49NB-I40WB, unless shown otherwise.

All transverse dimensions are measured normal to CL Ramp I49NB-I40WB, UNO.

Extend longitudinal reinforcement into the slab extension underneath the rails at finger joint locations. Maintain 3" min. clearance from end of reinforcement to end of slab extension.

For details of slab drains, see Dwg. No. 68596.

For "TRANSVERSE SLAB JOINT DETAIL", see Std. Dwg. No. 55007.

For "STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSTR42", see Std. Dwg. No. 55071.

For "DETAILS OF FINGER JOINT", see Dwg. Nos. 68594 & 68595.

(1) Place as shown in "TYPICAL ROADWAY SECTION", see Dwg. Nos. 68573 & 68574.

(2) S402E in Top - 36 Spa. @ 6", Bundled with S566E-S5102E.

(3) S566E-S5102E in Top - 36 Spa. @ 6"

(4) S5145E-S5171E in Bottom - 26 Spa. @ 7½"

(5) S502E in Bottom - 8 Eq. Spa. between Girders 4 & 5 and Girders 5 & 6. Place as shown in "TYPICAL ROADWAY SECTION", see Dwg. No. 68573.

(6) 12 - S503E in Bottom between Girders 4 & 6 @ 9½" Spa. Max. Shift to miss shear studs at Girder 5 and Termination Diaphragm. Place as shown in "TYPICAL ROADWAY SECTION", see Dwg. Nos. 68573 & 68574.

(7) S503E in Bottom - 8 Eq. Spa. between Girders 4 & 6. Place as shown in "TYPICAL ROADWAY SECTION", see Dwg. No. 68574.

(8) S402E in Top - 18 Spa. @ 15", Bundled with S506E (Left Side), S402E in Top - 18 Spa. @ 15", Bundled with S509E (Right Side).

(9) In the Slab Extension, cut R403E 8" leg to maintain concrete cover, Typ. both sides.

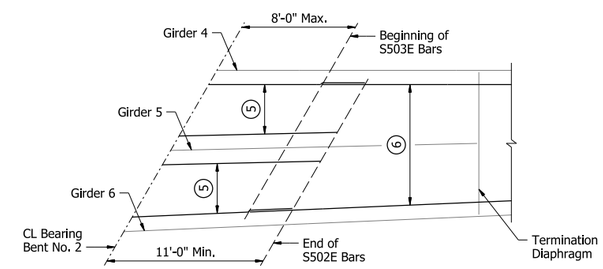
(10) Non-contact overlap must be 3'-0" Min. for bottom bars.

(11) Special panel, see Dwg. No. 68582 for details.

(12) Field cut slab reinforcement to miss slab drains. Rotate R403E to miss deck drains.

(F) CL Full-Depth Rail Joint

(P) CL Partial-Depth Rail Joint



DETAIL D

3/16" = 1'-0"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
5/4/26
BRIDGE ENGINEER

SHEET 9 OF 10
DETAILS OF 317'-0" CONTINUOUS PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 7/5/24
CHECKED BY: AMW DATE: 7/12/24
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FILENAME: b040904x14_s19.dgn
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BRIDGE NO. 07694 DRAWING NO. 68581

PRINT DATE: 4/13/2026

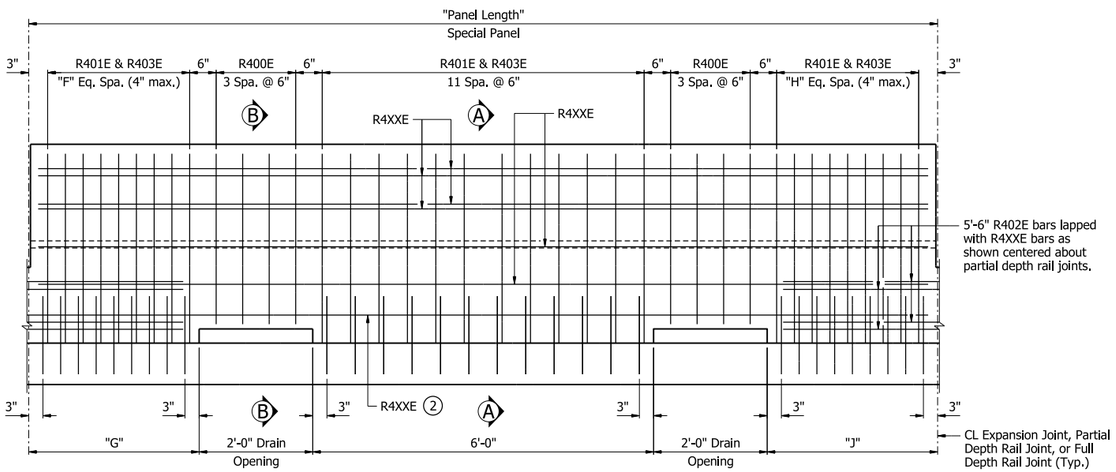
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	471	742
		07694 - UNIT 1 - 68582				

STANDARD PANEL RAIL VARIABLES

Closed Rail Panels			Open Rail Panels					
Panel Length	"A"	RXXXE	Panel Length	"B"	"C"	"D"	"E"	RXXXE
16'-4"	32	R411E	16'-0"	8	3'-0"	11	6'-0"	R409E
16'-4¼"	32	R411E	19'-8"	11	3'-11"	15	7'-10"	R410E
16'-4½"	32	R411E						
16'-5½"	32	R412E						
16'-6 5/16"	33	R413E						
16'-6 13/16"	33	R413E						
17'-2½"	34	R414E						
17'-7"	35	R415E						
21'-8½"	43	R416E						
21'-10⅝"	43	R417E						
21'-11½"	43	R418E						
21'-11 15/16"	43	R418E						

SPECIAL PANEL RAIL VARIABLES

Open Rail Panels						
Panel Length	Location	"F"	"G"	"H"	"J"	RXXXE
20'-11 11/16"	Upstation Bent No. 1	17	6'-0"	14	4'-11 11/16"	R419E
21'-5"	Downstation Bent Nos. 2 & 3	15	5'-5"	17	6'-0"	R420E
21'-5"	Upstation Bent No. 2	17	6'-0"	15	5'-5"	R420E



1 ELEVATION - SINGLE SLOPE TRAFFIC RAIL (SPECIAL PANEL)

Stations Increase

Notes:
For "SECTION A-A" & "SECTION B-B" and information on rail joints, see Std. Dwg. No. 55071.

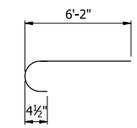
1 All measurements shown are along gutterline at base of rail.

2 These bars shall be raised up over drain opening as shown in "SECTION B-B".

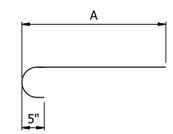
BAR LIST

Mark	Number Required	Length	Pin Dia.
S401E	432	42'-6"	Str.
S402E	1207	6'-8"	3"
S501E	186	55'-3"	Str.
S502E	63	60'-0"	Str.
S503E	39	53'-4"	Str.
S504E	106	37'-1"	Str.
S505E	106	60'-0"	Str.
S506E	595	30'-7"	3¾"
S507E	145	24'-8"	3¾"
S508E	174	20'-2"	3¾"
S509E	276	16'-0"	3¾"
S510E	477	30'-0"	Str.
S511E	116	24'-11"	Str.
S512E	139	20'-5"	Str.
S513E	222	16'-3"	Str.
S514E - S565E	1 each	7'-2" to 49'-9"	3¾"
S566E - S5102E	1 each	6'-10" to 38'-0"	3¾"
S5103E - S5144E	1 each	6'-4" to 49'-2"	Str.
S5145E - S5171E	1 each	6'-6" to 34'-8"	Str.
S5172E	26	8'-0"	3¾"
S5173E	13	7'-5"	Str.
S5174E	4	32'-2"	Str.
S5175E	5	3'-2"	Str.
S5176E	15	8'-9"	Str.
S5177E	3	2'-4"	Str.
S5178E	3	3'-0"	Str.
R400E	144	6'-3"	3"
R401E	1283	7'-6"	3"
R402E	128	5'-6"	Str.
R403E	1283	3'-8"	3"
R409E	120	15'-8"	Str.
R410E	20	19'-4"	Str.
R411E	30	16'-0"	Str.
R412E	10	16'-1"	Str.
R413E	20	16'-2"	Str.
R414E	40	16'-10"	Str.
R415E	40	17'-3"	Str.
R416E	10	21'-4"	Str.
R417E	10	21'-6"	Str.
R418E	20	21'-7"	Str.
R419E	10	20'-7"	Str.
R420E	30	21'-1"	Str.

Bending Diagrams
(Dimensions are out to out of bars)

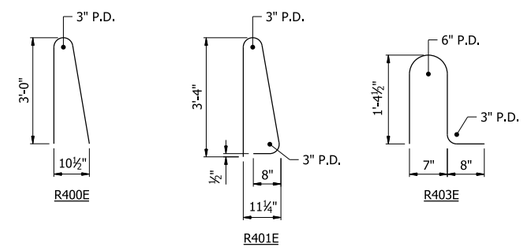


S402E



1 S5XXE

Mark 1	A
S506E	30'-0"
S507E	24'-1"
S508E	19'-7"
S509E	15'-5"
S514E - S565E	6'-7" to 49'-2"
S566E - S5102E	6'-3" to 37'-5"
S5172E	7'-5"



All bars designated with an "E" suffix are to be epoxy coated.

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SHEET 10 OF 10
DETAILS OF 317'-0" CONTINUOUS
PLATE GIRDER UNIT 1
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

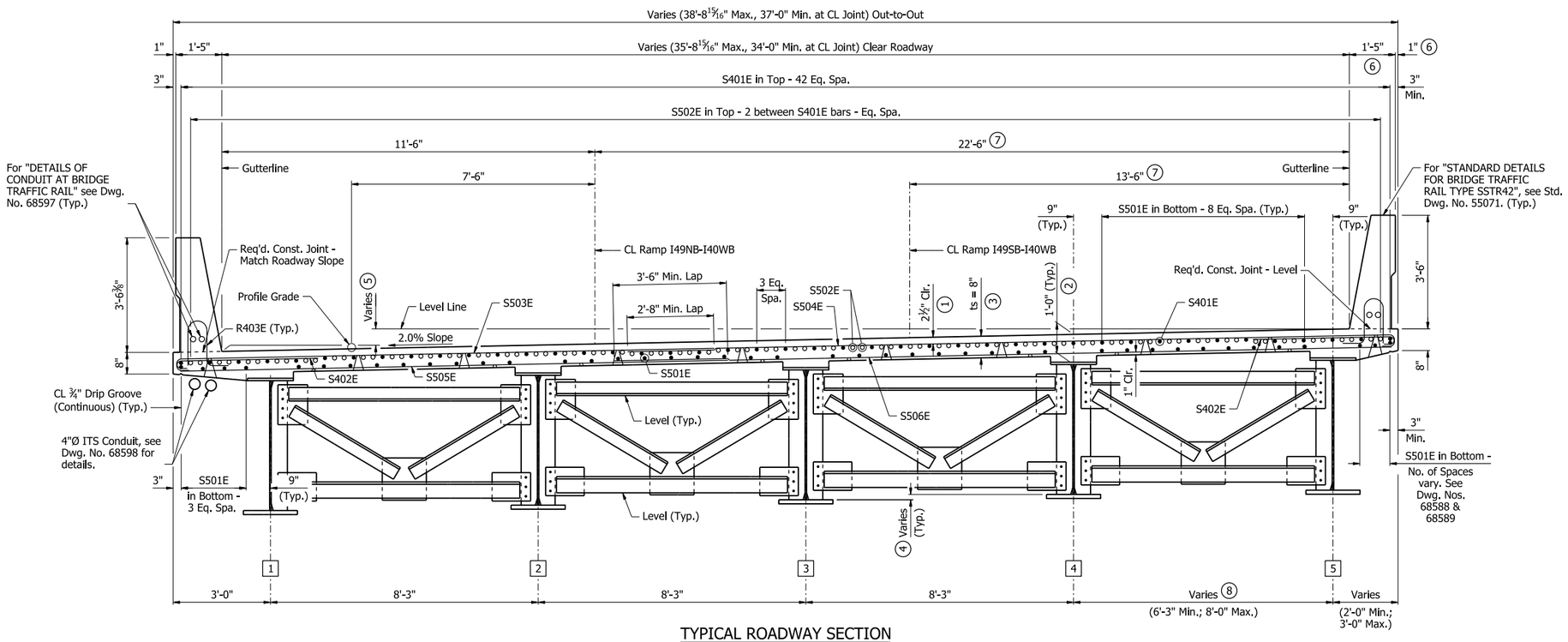
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 7/5/24
CHECKED BY: AMW DATE: 7/12/24
DESIGNED BY: RCR DATE: 7/21/22
FILENAME: b040904x14_s110.dgn
SCALE: NO SCALE

BRIDGE NO. 07694 DRAWING NO. 68582

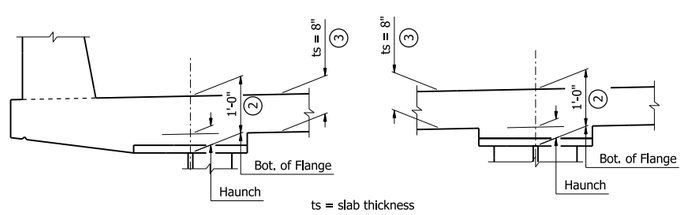
PRINT DATE: 4/13/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	472	742
		07694 - UNIT 2 - 68583				



TYPICAL ROADWAY SECTION

(Looking Upstation)
½" = 1'-0"



ADJUSTMENT FOR SLAB THICKNESS TOLERANCE

¾" = 1'-0"

Notes:
All horizontal dimensions are measured normal to CL Ramp I49NB-I40WB, UNO.

Bar positions or clearances from the forms shall be maintained by means of stays, ties, hangers, or other approved devices per Subsection 804.06. Placement of slab bolsters or high-chairs with full-length lower runners directly on removable deck forms will not be allowed.

For details of Bridge Finishes and Protective Surface Treatment, see Dwg. No. 68476.

For "PARTIAL REINFORCING PLAN AND POURING SEQUENCE", see Dwg. Nos. 68588 & 68589.

For sections near joints, see Dwg. No. 68584.

For K-Frame details, see Dwg. No. 68592.

1 Tolerance: Minus = ¼"; Plus equal to the amount of slab thickening used to meet slab thickness tolerance. See "ADJUSTMENT FOR SLAB THICKNESS TOLERANCE".

2 Haunch dimensions may vary within the following limits to maintain the grade and slab thickness tolerance:

Top Flange	Haunch Adjustment Tolerance	
	Plus	Minus
¾" x 14"	⅝"	2⅝"
1" x 14"	⅞"	2⅜"
1⅜" x 18"	1⅛"	1⅞"

No increase in concrete and structural steel quantities will be made to maintain tolerances. Tolerances shown are applicable for both removable deck forming and permanent steel deck forms. Payment for concrete shall be based on removable deck forming.

3 Tolerance: Minus = ¼"; Plus = ½". Haunch forming is required and shall be adjusted to maintain slab thickness tolerance.

4 2 " Typ. for 8'-3" Girder Spacing. All other vary, 1 15/16" Max. to 1½" Min. measured normal to CL Ramp I49NB-I40WB.

5 8 3/16" Min. to 8½" Max. Dimensions measured perpendicular to CL Ramp I49NB-I40WB at intersection of CL Ramp I49NB-I40WB & CL Joint.

6 Measured radial to CL Ramp I49SB-I40WB from Sta. 57+66.66 to Sta. 59+29.74. Measured normal to CL Ramp I49NB-I40WB from Sta. 59+29.74 to end of bridge.

SLAB REINFORCING:
Longitudinal: S401E in Top placed as shown.
S502E in Top placed as shown over Intermediate Bents.
S501E in Bottom placed as shown.

Transverse: S503E and S504E in Top @ 6".
S505E and S506E in Bottom @ 7½".
S402E in Top @ 6", Bundled with S503E or S504E.

7 13'-6" measured radial to CL Ramp I49SB-I40WB from Sta. 57+66.66 to Sta. 59+29.74. 22'-6" measured normal to CL Ramp I49NB-I40WB from Sta. 59+29.74 to end of bridge.

8 Measured at CL Bearing

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SHEET 1 OF 8
DETAILS OF 330'-0" CONTINUOUS
PLATE GIRDER UNIT 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 7/22/24
CHECKED BY: RLW DATE: 8/5/24
DESIGNED BY: RCR DATE: 7/21/22
FILENAME: b040904x14_s21.dgn
SCALE: AS NOTED
BRIDGE NO. 07694 DRAWING NO. 68583

PRINT DATE: 3/31/2026

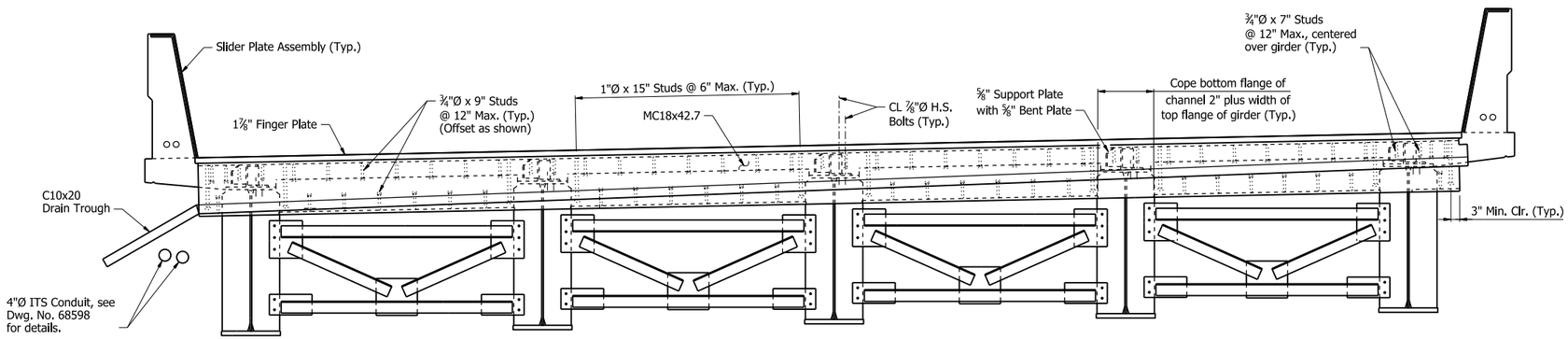
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	473	742
		07694 - UNIT 2 - 68584				

Expansion Device:
Roadway channel - MC18x42.7
Connection - ⅝" Support Plate and ⅝" Bent Support Plate

For Finger Joint Details, see Dwg. Nos. 68594 & 68595.

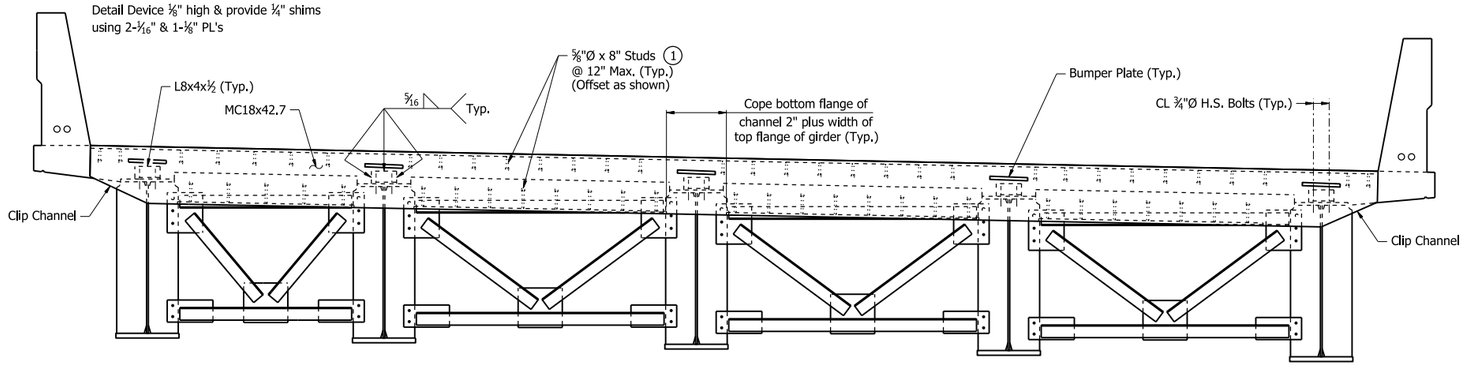
Maintain 2" cover between Girder Flange edge and Studs. Studs shall be normal to CL Joint, except Studs closest to the acute corner edge may run parallel to the edge of the finger plate.

Notes:
For "STANDARD DETAILS FOR POURED SILICONE JOINTS", see Std. Dwg. No. 55008 & Dwg. No. 68593.



TYPICAL ROADWAY SECTION NEAR FINGER JOINT AT BENT NO. 3
(Looking Upstation)

Expansion Device:
Roadway Channel - MC18x42.7
Connection Angles - L8x4x½
Detail Device ⅛" high & provide ¼" shims using 2-$^{5}/_{16}$" & 1-⅛" PL's



TYPICAL ROADWAY SECTION NEAR POURED SILICONE JOINT AT END BENT NO. 6
(Looking Downstation)

(1) For "DETAILS OF ALTERNATIVE ANCHORS", see Dwg. No. 68593.

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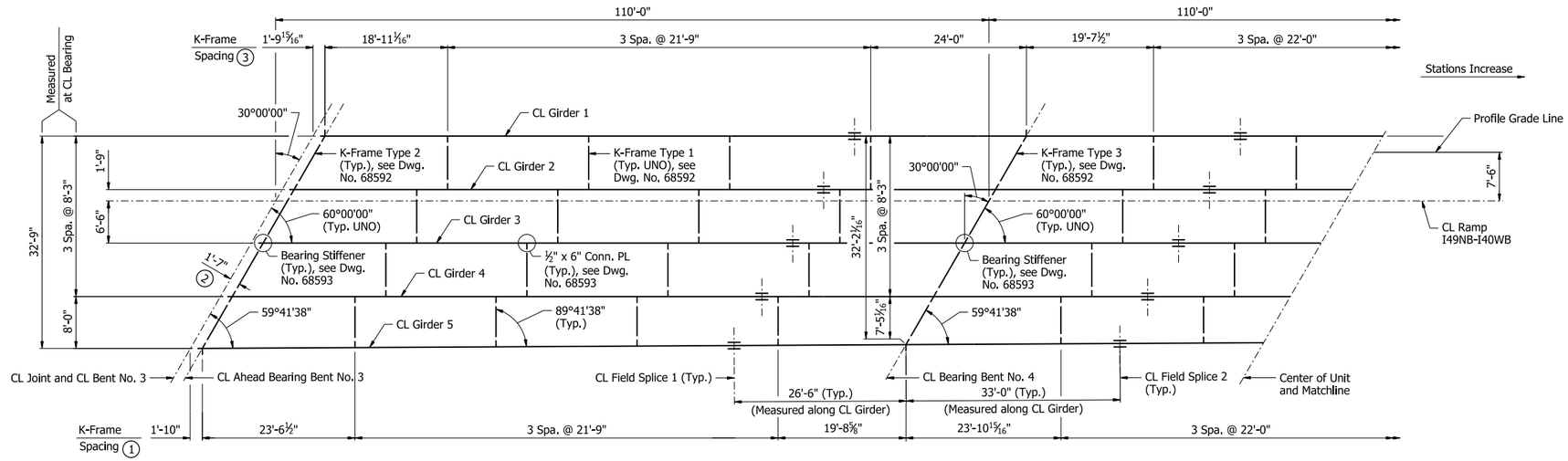
SHEET 2 OF 8
DETAILS OF 330'-0" CONTINUOUS
PLATE GIRDER UNIT 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 7/22/24
CHECKED BY: RLW DATE: 8/5/24
DESIGNED BY: RLW DATE: 4/25/24
FILENAME: b040904x14_s22.dgn
SCALE: ½" = 1'-0"
BRIDGE NO. 07694 DRAWING NO. 68584

PRINT DATE: 3/31/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	474	742
		07694 - UNIT 2 - 68585				



PARTIAL FRAMING PLAN

3/32" = 1'-0"

Notes:
All Structural Steel shall be ASTM A709, Grade 50W unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)."

For "DETAILS OF FIELD SPLICES", see Dwg. No. 68591.

For Dead Load Deflections, see Dwg. No. 68587.

Longitudinal dimensions in the Framing Plan are horizontal and measured along CL Ramp I49NB-I40WB, UNO.

Longitudinal dimensions in the Girder Elevation are horizontal and measured along CL Girder, UNO.

Transverse dimensions are measured normal to CL Ramp I49NB-I40WB. All intermediate cross frames and diaphragms are normal to CL Ramp I49NB-I40WB.

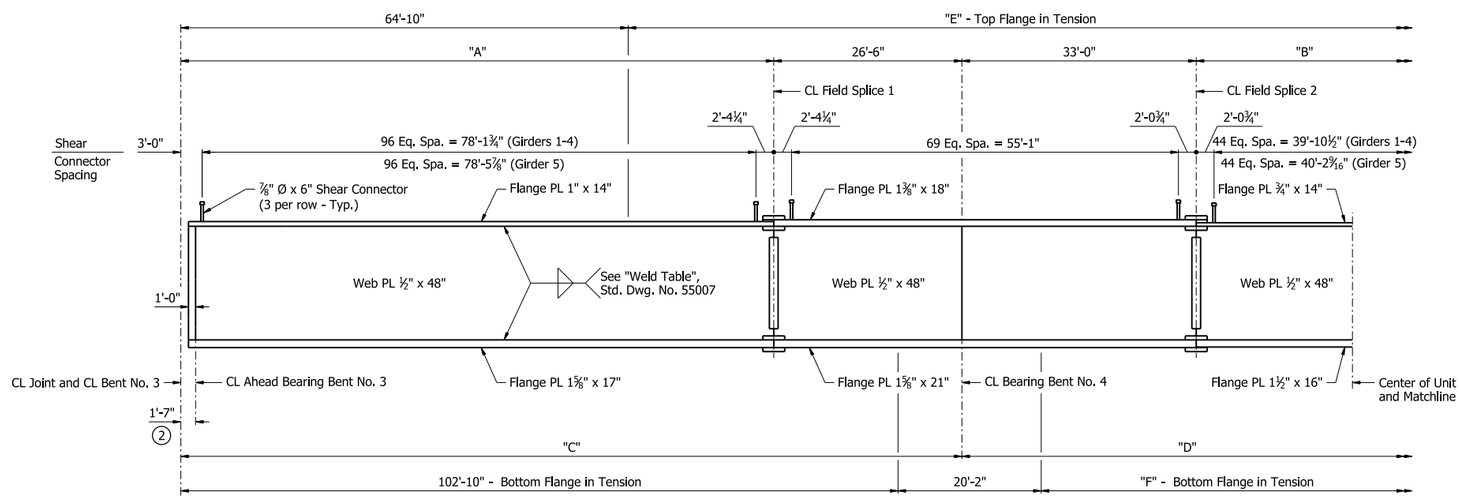
All transverse stiffeners are normal to CL Girder.

For plan view of top flange at end of girder at Bent No. 6, see "STANDARD DETAILS FOR POURED SILICONE JOINTS", Std. Dwg. No. 55008.

(1) Measured along CL of Girder 5

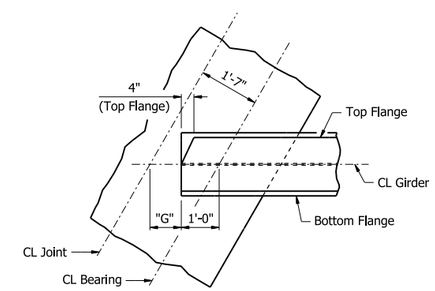
(2) Normal to CL Joint.

(3) Measured along right face of Girders 1 thru 4.



PARTIAL GIRDER ELEVATION

No Scale



PLAN AT BENT NO. 3

½" = 1'-0"

TABLE OF VARIABLES

Girder	"A"	"B"	"C"	"D"	"E"	"F"	"G"
1-4	83'-6"	44'-0"	110'-0"	110'-0"	200'-4"	84'-0"	9 15/16"
5	83'-10⅛"	44'-4 1/16"	110'-4⅛"	110'-4 1/16"	201'-4 5/16"	85'-0 5/16"	10"

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SHEET 3 OF 8
DETAILS OF 330'-0" CONTINUOUS
PLATE GIRDER UNIT 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 7/19/24
CHECKED BY: CZ DATE: 7/19/24
DESIGNED BY: KBJ DATE: 2/6/24
FILENAME: b040904x14_s23.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68585

PRINT DATE: 4/9/2026

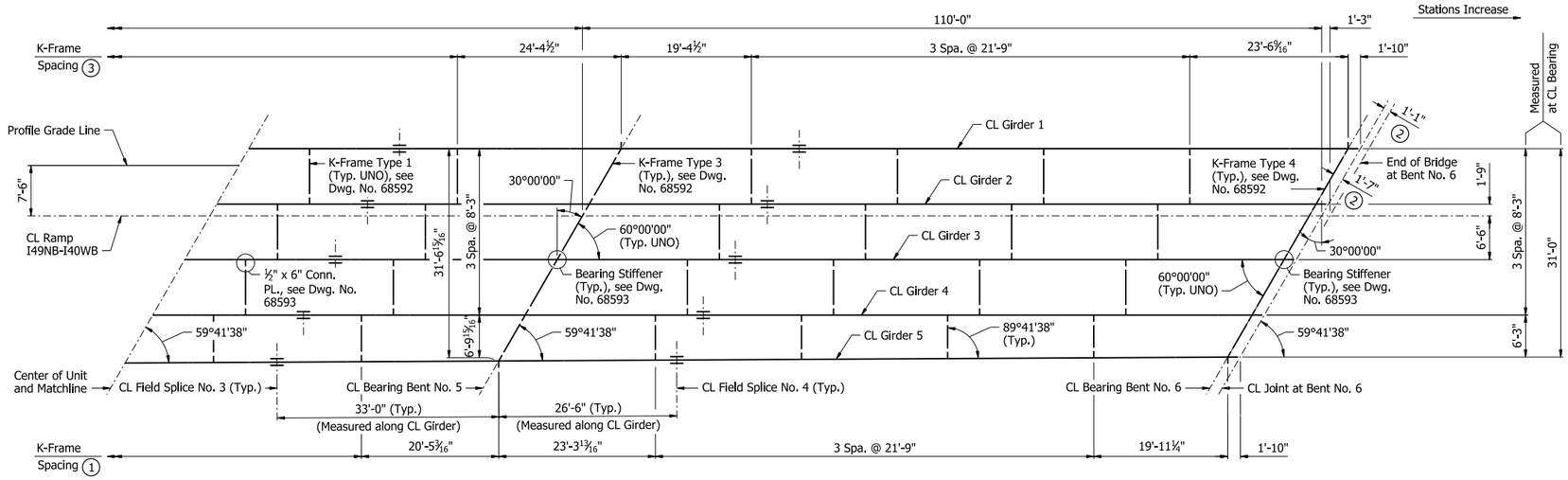
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	475	742
		07694 - UNIT 2 - 68586				

Notes:
For additional notes, see Dwg. No. 68585.

(1) Measured along CL of Girder 5

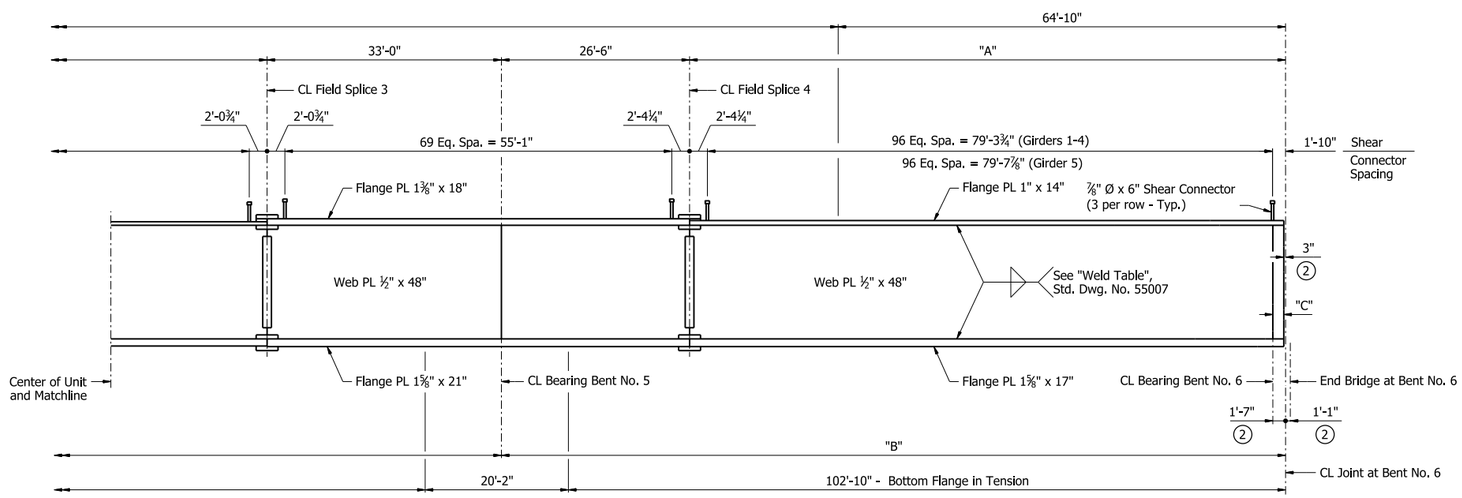
(2) Normal to CL Joint.

(3) Measured along right face of Girders 1 thru 4.



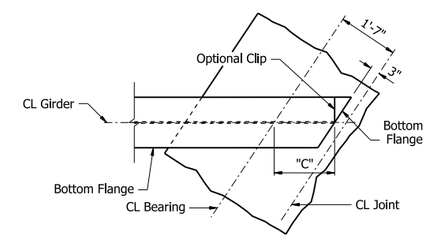
PARTIAL FRAMING PLAN

3/32" = 1'-0"



PARTIAL GIRDER ELEVATION

No Scale



PLAN AT BENT NO. 6

½" = 1'-0"

TABLE OF VARIABLES

Girder	"A"	"B"	"C"
1-4	83'-6"	110'-0"	1'-6½"
5	83'-10⅛"	110'-4⅛"	1'-6⁹⁄₁₆"

STATE OF ARKANSAS
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SHEET 4 OF 8
DETAILS OF 330'-0" CONTINUOUS
PLATE GIRDER UNIT 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 7/19/24
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DESIGNED BY: KBJ DATE: 2/6/24
FILENAME: b040904x14_s24.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68586

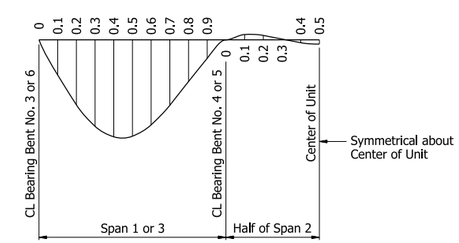
PRINT DATE: 4/7/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	476	742
		07694 - UNIT 2 - 68587				

TABLE OF DEAD LOAD DEFLECTIONS (INCHES)

Span	Point of Deflection	Structural Steel					Structural Steel + Slab					Structural Steel + Slab + Rail				
		Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5
Span 1 or 3	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.1	0.185	0.188	0.189	0.188	0.186	0.824	0.836	0.831	0.796	0.756	0.962	0.898	0.873	0.863	0.890
	0.2	0.343	0.349	0.351	0.349	0.345	1.529	1.550	1.537	1.477	1.405	1.782	1.668	1.617	1.603	1.649
	0.3	0.457	0.464	0.466	0.463	0.458	2.035	2.054	2.040	1.960	1.866	2.369	2.214	2.149	2.130	2.187
	0.4	0.513	0.521	0.524	0.520	0.515	2.283	2.303	2.287	2.201	2.096	2.654	2.484	2.411	2.394	2.452
	0.5	0.509	0.516	0.519	0.516	0.511	2.260	2.278	2.262	2.180	2.076	2.628	2.458	2.387	2.372	2.428
	0.6	0.450	0.456	0.458	0.456	0.452	1.993	2.007	1.992	1.923	1.836	2.318	2.167	2.103	2.094	2.147
	0.7	0.347	0.351	0.353	0.351	0.348	1.531	1.540	1.528	1.478	1.415	1.782	1.663	1.616	1.610	1.656
	0.8	0.221	0.223	0.224	0.224	0.222	0.973	0.975	0.966	0.939	0.902	1.132	1.053	1.024	1.022	1.056
	0.9	0.097	0.098	0.098	0.098	0.098	0.428	0.425	0.420	0.411	0.400	0.496	0.460	0.447	0.448	0.466
Half of Span 2	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.1	-0.028	-0.027	-0.027	-0.027	-0.029	-0.123	-0.112	-0.111	-0.117	-0.137	-0.112	-0.129	-0.132	-0.131	-0.130
	0.2	-0.023	-0.019	-0.018	-0.020	-0.024	-0.099	-0.072	-0.064	-0.088	-0.137	-0.051	-0.093	-0.100	-0.104	-0.096
	0.3	-0.004	0.003	0.005	0.002	-0.004	-0.008	0.036	0.047	0.005	-0.076	0.083	0.018	0.003	-0.005	0.003
	0.4	0.015	0.024	0.027	0.023	0.015	0.086	0.141	0.154	0.098	-0.007	0.208	0.128	0.105	0.095	0.101
	0.5	0.023	0.032	0.035	0.031	0.023	0.123	0.182	0.196	0.135	0.021	0.257	0.171	0.146	0.134	0.140

← Symmetrical about Center of Unit



DEAD LOAD DEFLECTION DIAGRAM

Notes:
Camber for dead load deflection +/- ¼" tolerance. Deflections shown are along CL Girder from a chord from CL Bearing to CL Bearing. Negative sign (-) indicates point above chord. Vertical curve corrections are not included. Superelevation transition corrections not included.

Tabulated values shown require an adjustment for cross-slope to girders to achieve proper camber.

The additional weight for the permanent steel deck forms are included in the slab dead load deflections. Revisions to the deflection tables may be necessary upon review of the Contractor's submitted forming details.

STATE OF ARKANSAS
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SHEET 5 OF 8
DETAILS OF 330'-0" CONTINUOUS
PLATE GIRDER UNIT 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 6/20/24
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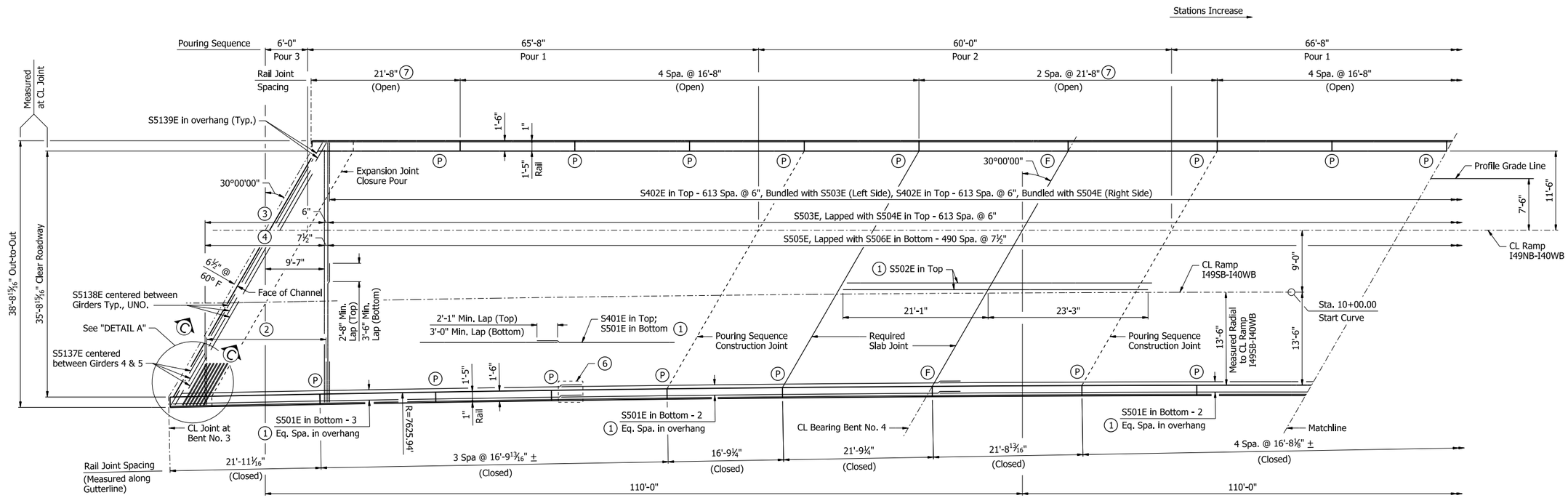
DESIGNED BY: KBJ DATE: 2/6/24
FILENAME: b040904x14_s25.dgn
SCALE: No Scale

BRIDGE NO. 07694 DRAWING NO. 68587

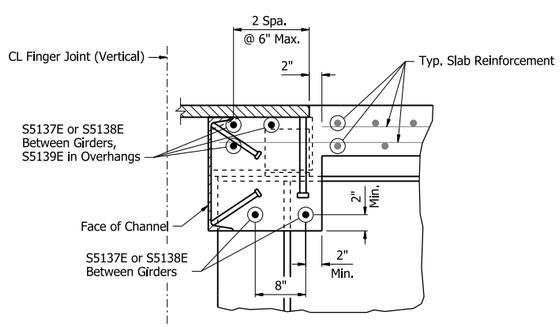
PRINT DATE: 4/7/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	477	742
		07694 - UNIT 2 - 68588				



PARTIAL REINFORCING PLAN AND POURING SEQUENCE

⅛" = 1'-0"



SECTION C-C

1" = 1'-0"

Slab Pouring Sequence Notes:
Pours with the same number may be placed simultaneously or separately. All pours must be placed in order sequentially. A minimum of 48 hours shall elapse between the end of a pour and the start of the next pour. A minimum of 72 hours shall elapse between the end of a pour and the start of an adjacent pour.

Concrete in bridge superstructure shall be placed, consolidated, and screeded off for the entire pour before any concrete has taken its initial set. This may require the use of a retarding agent.

After all incremental pours on both Units adjacent to the Finger Joint are complete, closure pour 3 on each side of the Finger Joint shall be poured simultaneously. For details of Finger Joint, see Dwg. Nos. 68594 & 68595. A minimum of 48 hours shall elapse between the last incremental pour and the closure pours.

A minimum of 72 hours shall elapse between completion of the slab and the pouring of the bridge railing. Any railing pours made before the entire slab unit has been placed must be approved by the Engineer. The Contractor must obtain approval from the Engineer for any deviations from the pouring sequence(s) shown.

Notes:
Required slab joints and pouring sequence joints shall align with rail joints at the gutterline.

All longitudinal dimensions are along CL Ramp I49NB-I40WB, UNO.

All transverse reinforcing steel shall be placed normal to CL Ramp I49NB-I40WB, unless shown otherwise.

Extend longitudinal reinforcement into the slab extension underneath the rails at finger joint locations. Maintain 3" min. clearance from end of reinforcement to end of slab extension.

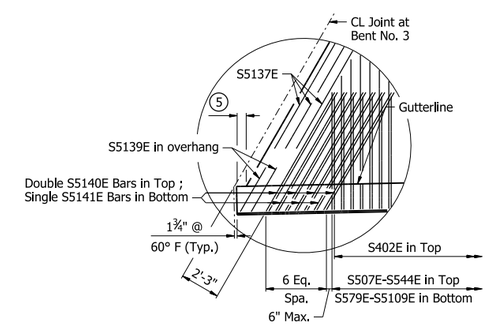
All transverse dimensions are measured normal to CL Ramp I49NB-I40WB, UNO.

For "TRANSVERSE SLAB JOINT DETAIL", see Std. Dwg. No. 55007.

For "STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSTR42", see Std. Dwg. No. 55071.

For "DETAILS OF FINGER JOINT", see Dwg. Nos. 68594 & 68595.

(1) Place as shown in "TYPICAL ROADWAY SECTION", see Dwg. No. 68583.
(2) S402E in Top - 37 Spa. @ 6", Bundled with S507E-S544E.
(3) S507E-S544E in Top - 37 Spa. @ 6"
(4) S579E - S5109E in Bottom - 30 Spa. @ 7½"
(5) In the Slab Extension, cut R403E 8" leg to maintain concrete cover, Typ. both sides.
(6) Noncontact overlap must be 3'-0" Min. for bottom bars.
(7) Special panel, see Dwg. No. 68590 for details.
(F) CL Full-Depth Rail Joint
(P) CL Partial-Depth Rail Joint



DETAIL A

¼" = 1'-0"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
RACHEL L. WESSON
5/4/26
BRIDGE ENGINEER

SHEET 6 OF 8
DETAILS OF 330'-0" CONTINUOUS
PLATE GIRDER UNIT 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

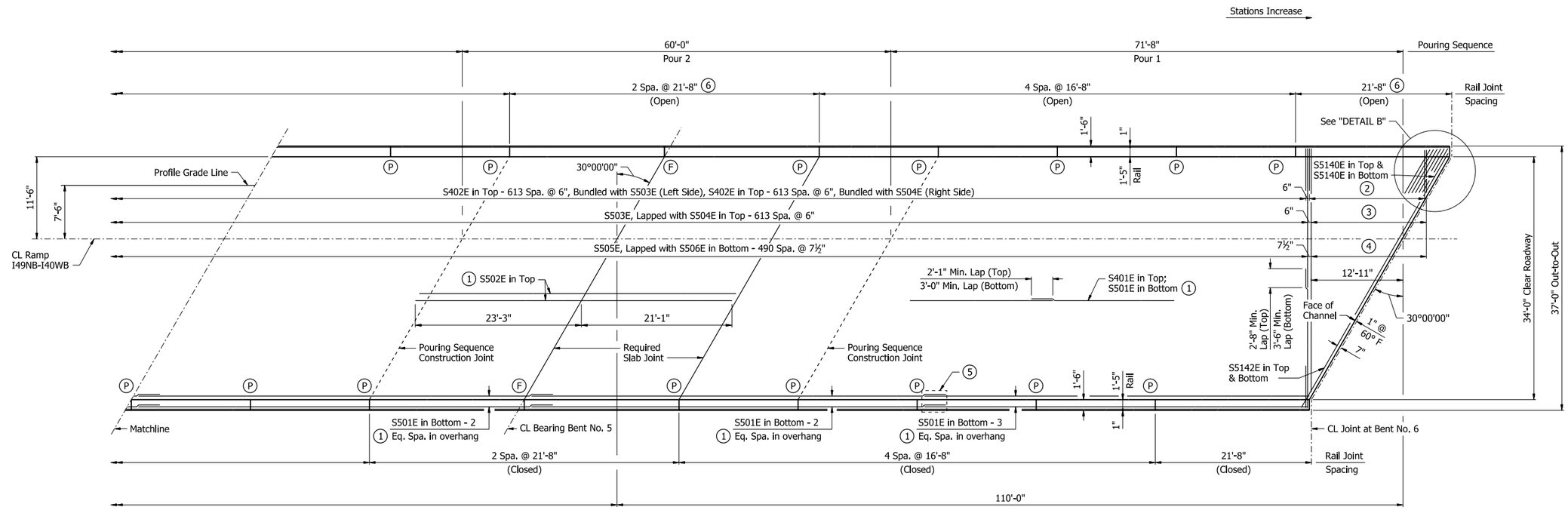
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY:	CTK	DATE:	7/22/24	FILENAME:	b040904x14_s26.dgn
CHECKED BY:	RLW	DATE:	8/5/24	SCALE:	AS NOTED
DESIGNED BY:	RCR	DATE:	7/21/22		

BRIDGE NO. 07694 DRAWING NO. 68588

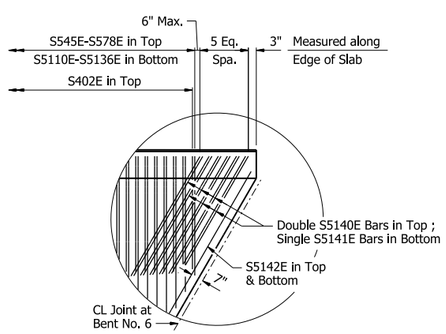
PRINT DATE: 4/13/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	478	742
		07694 - UNIT 2 - 68589				



PARTIAL REINFORCING PLAN AND POURING SEQUENCE

⅛" = 1'-0"



DETAIL B

¼" = 1'-0"

Slab Pouring Sequence Notes:
Pours with the same number may be placed simultaneously or separately. All pours must be placed in order sequentially.
A minimum of 48 hours shall elapse between the end of a pour and the start of the next pour. A minimum of 72 hours shall elapse between the end of a pour and the start of an adjacent pour.

Concrete in bridge superstructure shall be placed, consolidated, and screeded off for the entire pour before any concrete has taken its initial set. This may require the use of a retarding agent.

For pours adjacent to Poured Silicone Joints, see Std. Dwg. No. 55008 to coordinate pours with joint installation.

A minimum of 72 hours shall elapse between completion of the slab and the pouring of the bridge railing. Any railing pours made before the entire slab unit has been placed must be approved by the Engineer. The Contractor must obtain approval from the Engineer for any deviations from the pouring sequence(s) shown.

Notes:
Required slab joints and pouring sequence joints shall align with rail joints at the gutterline.

All longitudinal dimensions are along CL Ramp I49NB-I40WB, UNO.

All transverse reinforcing steel shall be placed normal to CL Ramp I49NB-I40WB, unless shown otherwise.

All transverse dimensions are measured normal to CL Ramp I49NB-I40WB, UNO.

For "TRANSVERSE SLAB JOINT DETAIL", see Std. Dwg. No. 55007.

For "STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSTR42", see Std. Dwg. No. 55071.

For "STANDARD DETAILS FOR POURED SILICONE JOINTS", see Std. Dwg. No. 55008.

(1) Place as shown in "TYPICAL ROADWAY SECTION", see Dwg. No. 68583.
(2) S402E in Top - 33 Spa. @ 6", Bundled with S545E-S578E.
(3) S545E-S578E in Top - 33 Spa. @ 6"
(4) S5110E-S5136E in Bottom - 26 Spa. @ 7½"
(5) Noncontact overlap must be 3'-0" Min. for bottom bars.
(6) Special panel, see Dwg. No. 68590 for details.
(F) CL Full-Depth Rail Joint
(P) CL Partial-Depth Rail Joint

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22535
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BRIDGE ENGINEER

SHEET 7 OF 8
DETAILS OF 330'-0" CONTINUOUS
PLATE GIRDER UNIT 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY:	CTK	DATE:	7/22/24	FILENAME:	b040904x14_s27.dgn
CHECKED BY:	RLW	DATE:	8/5/24	SCALE:	AS NOTED
DESIGNED BY:	RCR	DATE:	7/21/22		

BRIDGE NO. 07694 DRAWING NO. 68589

PRINT DATE: 4/2/2026

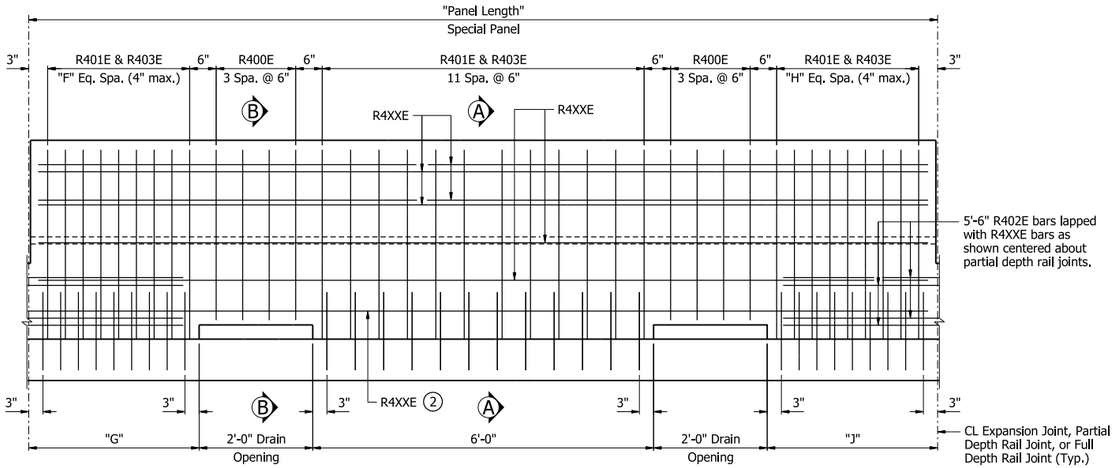
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	479	742
		07694 - UNIT 2 - 68590				

STANDARD PANEL RAIL VARIABLES

Closed Rail Panels			Open Rail Panels					
Panel Length	"A"	"R"	Panel Length	"B"	"C"	"D"	"E"	"R"
16'-8"	33	R409E	16'-8"	8	3'-2"	12	6'-4"	R409E
16'-8⅛" ±	33	R409E						
16'-9¼"	33	R410E						
16'-9 13/16" ±	33	R410E						
21'-8"	43	R411E						
21'-8 13/16"	43	R411E						
21'-9¼"	43	R412E						
21'-11 1/16"	43	R413E						

SPECIAL PANEL RAIL VARIABLES

Open Rail Panels						
Panel Length	Location	"F"	"G"	"H"	"J"	RXXXE
21'-8"	Upstation Bent Nos. 3, 4 & 5	17	6'-0"	16	5'-8"	R411E
21'-8"	Downstation Bent Nos. 4, 5 & 6	16	5'-8"	17	6'-0"	R411E



1 ELEVATION - SINGLE SLOPE TRAFFIC RAIL (SPECIAL PANEL)

Stations Increase →

Notes:
For "SECTION A-A" & "SECTION B-B" and information on rail joints, see Std. Dwg. No. 55071.

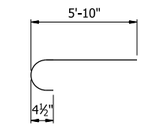
1 All measurements shown are along gutterline at base of rail.

2 These bars shall be raised up over drain opening as shown in "SECTION B-B".

BAR LIST

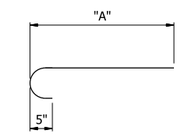
Mark	Number Required	Length	Pin Dia.
S401E	344	43'-2"	Str.
S402E	1300	6'-4"	3"
S501E	260	57'-8"	Str.
S502E	168	44'-4"	Str.
S503E	614	19'-2"	3¾"
S504E	614	22'-10"	3¾"
S505E	491	18'-7"	Str.
S506E	491	23'-1"	Str.
S507E - S544E	1 each	6'-6" to 38'-3"	3¾"
S545E - S578E	1 each	6'-8" to 35'-3"	3¾"
S579E - S5109E	1 each	5'-11" to 37'-8"	Str.
S5110E - S5136E	1 each	6'-7" to 34'-9"	Str.
S5137E	5	7'-6"	Str.
S5138E	15	7'-9"	Str.
S5139E	6	2'-4"	Str.
S5140E	26	7'-9"	3¾"
S5141E	13	7'-2"	Str.
S5142E	2	41'-7"	Str.
R400E	144	6'-3"	3"
R401E	1326	7'-6"	3"
R402E	120	5'-6"	Str.
R403E	1326	3'-8"	3"
R409E	200	16'-4"	Str.
R410E	40	16'-5"	Str.
R411E	100	21'-4"	Str.
R412E	10	21'-5"	Str.
R413E	10	21'-7"	Str.

Bending Diagrams
(Dimensions are out to out of bars)

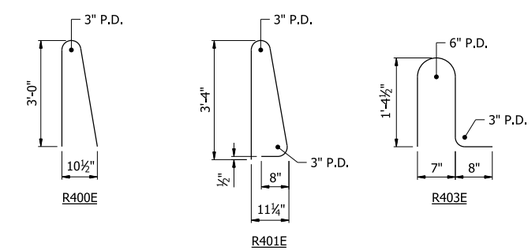


S402E

Mark 1	"A"
S503E	18'-7"
S504E	22'-3"
S507E-S544E	5'-11" to 37'-8"
S545E-S578E	6'-1" to 34'-8"
S5140E	7'-2"



1 S5XXE



All bars designated with an "E" suffix are to be epoxy coated.

STATE OF ARKANSAS
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SHEET 8 OF 8
DETAILS OF 330'-0" CONTINUOUS
PLATE GIRDER UNIT 2
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 7/29/24
CHECKED BY: RLW DATE: 8/5/24
DESIGNED BY: RCR DATE: 7/21/22
FILENAME: b040904x14_s28.dgn
SCALE: NO SCALE

BRIDGE NO. 07694 DRAWING NO. 68590

PRINT DATE: 4/13/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	480	742
		07694 - COMMON DETAILS - 68591				

TABLE OF VARIABLES

Unit	Field Splice	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"P"	"Q"	"R"	"S"	"T"	"U"	"V"	"W"	"X"	"Y"
1	1 & 2	2'-5½"	17"	½"	⅝"	7½"	⅝"	2"	3½"	3	3'-0½"	20"	⅞"	¼"	9"	2"	5"	3"	2"	4	5'-1¼"	3⅞"	11	5¼"
2	1 & 4	4'-2½"	14"	⅝"	⅜"	6"	⅝"	4"	---	6	2'-5½"	17"	1"	---	7½"	2"	3½"	3"	2"	3	3'-6"	3"	7	5½"
	2 & 3	3'-7½"	14"	½"	⅝"	6"	½"	4"	---	5	2'-5½"	16"	⅞"	⅛"	7"	1¾"	3½"	2¾"	1¾"	3	3'-6"	3"	7	5½"

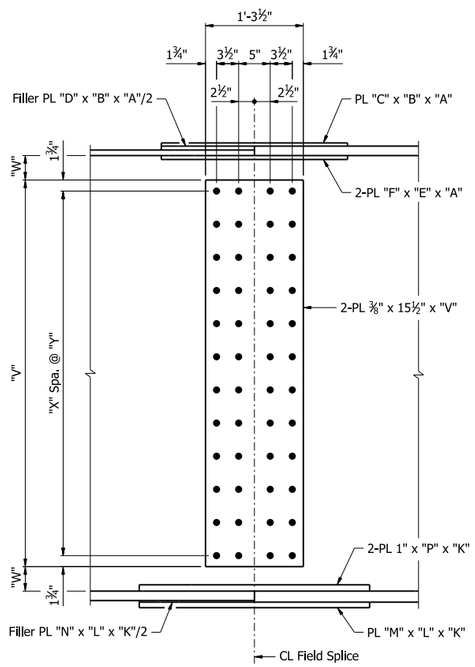
Notes:
For location of field splices in Unit 1, see Dwg. Nos. 68575 & 68576.
For location of field splices in Unit 2, see Dwg. Nos. 68585 & 68586.

All field splice bolts shall be ASTM F3125, Gr. A325, 1"Ø H.S. bolts.

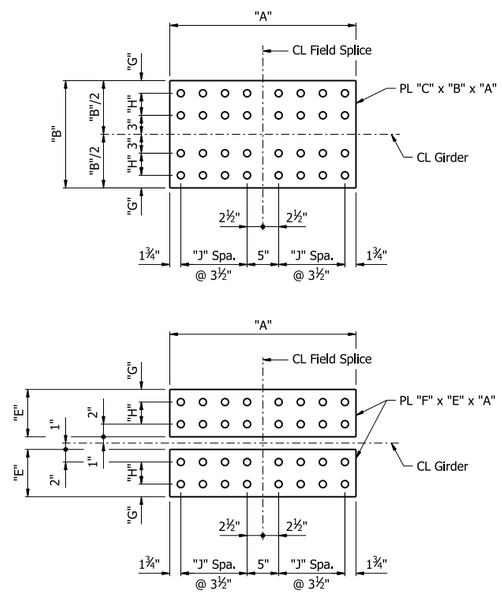
All holes for splice bolts shall be 1⅛"Ø.

All structural steel shall be ASTM A709, Grade 50W, unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)."

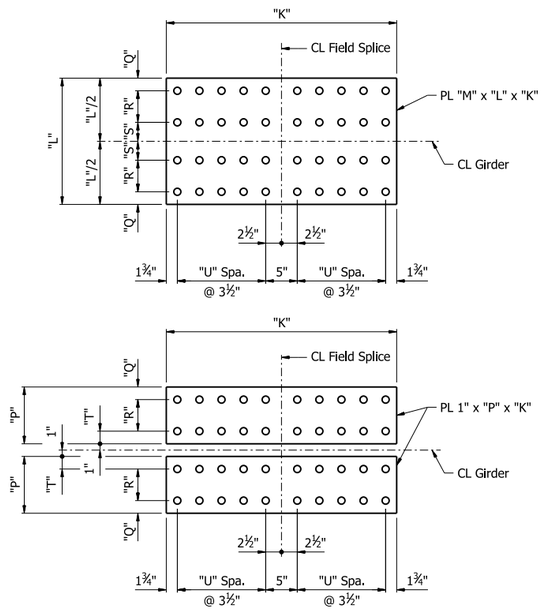
Bolted field splices may either be eliminated or shop weld splices may be substituted with the approval of the Engineer. Payment will be made on the basis of plan quantities.



WEB SPLICE



TOP FLANGE SPLICE



BOTTOM FLANGE SPLICE

DETAILS OF FIELD SPLICES

STATE OF ARKANSAS
Allie Wagner
PROFESSIONAL ENGINEER
★★★
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

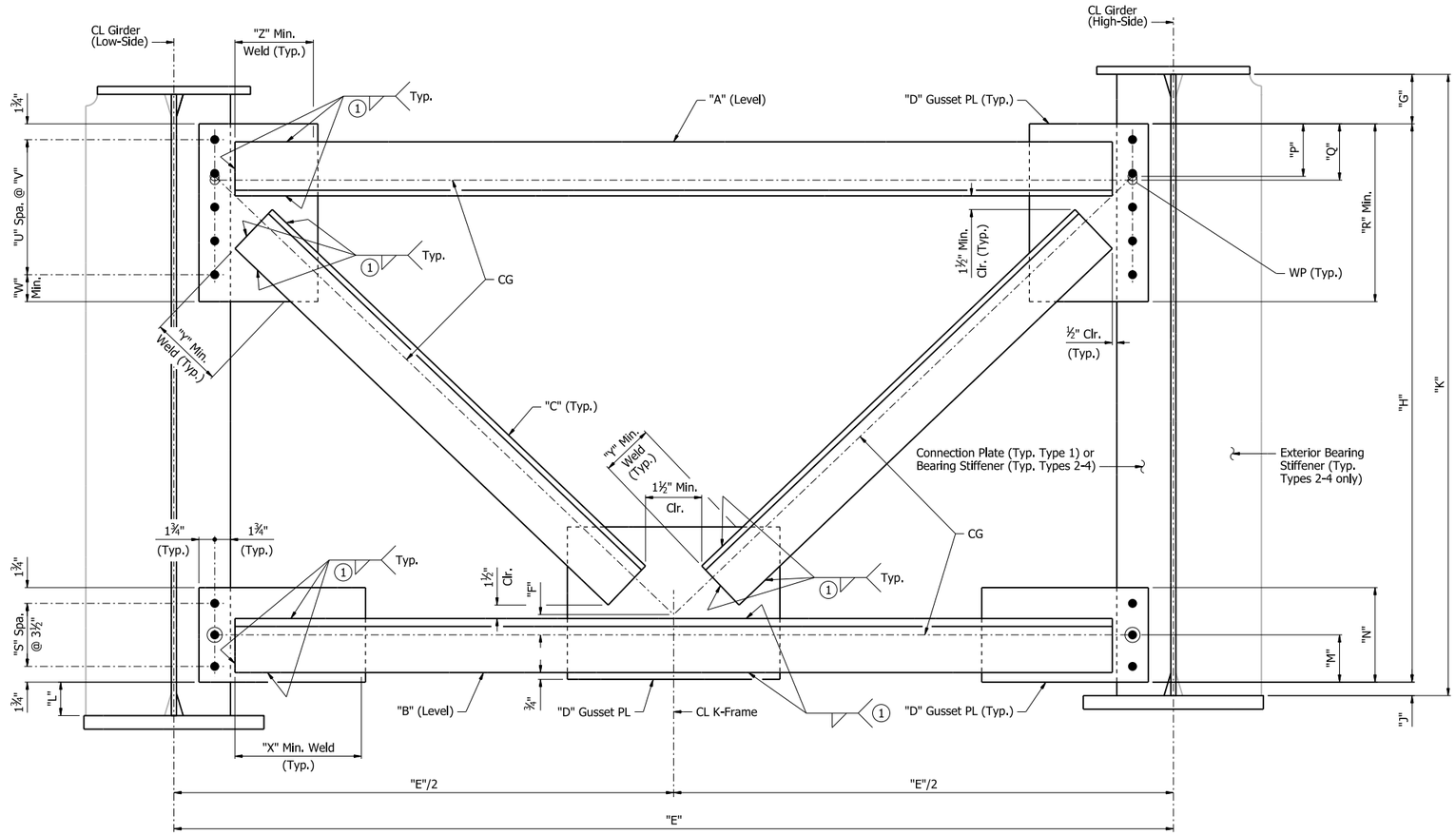
SHEET 1 OF 3
COMMON DETAILS OF CONTINUOUS
PLATE GIRDER UNITS
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 6/5/24
CHECKED BY: CZ DATE: 6/6/24
DESIGNED BY: JRR DATE: 11/12/23
FILENAME: b040904x14_sc1.dgn
SCALE: No Scale
BRIDGE NO. 07694 DRAWING NO. 68591

PRINT DATE: 3/16/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	481	742
		07694 - COMMON DETAILS - 68592				



DETAIL OF K-FRAMES

(Type 1 shown, Types 2-4 similar)

Notes:
All Structural Steel shall be ASTM A709, Grade 50W unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)."

For location of K-Frames in Unit 1, see Dwg. Nos. 68575 & 68576. For location of K-Frames in Unit 2, see Dwg. Nos. 68585 & 68586.

All bolts shall be ASTM F3125, Gr. A325, 1"Ø H.S. bolts.

All holes shall be drilled for K-Frames connection and shall be 1⅛"Ø.

For Connection Plate and Bearing Stiffener details, see Dwg. No. 68593.

K-Frames are symmetric about CL, UNO.

Fabricator shall size gusset PL to satisfy minimum edge distances and clear distances. Gusset PL shape can be rectangular or incorporate clips as needed.

(1) See "WELD TABLE", Std. Dwg. No. 55007.

(2) Minimum "P" corresponds to minimum "E". Maximum "P" corresponds to maximum "E". Vary dimension "P" linearly (± ⅛") from minimum to maximum "E".

TABLE OF VARIABLES

Unit	K-Frame Type	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"P" (2)	"Q"	"R"	"S"	"U"	"V"	"W"	"X"	"Y"	"Z"
1	1	L6x6x⅞	L6x6x⅞	L6x6x⅞	½"	Varies	2¼"	5½"	5'-2"	1½"	5'-9"	Varies	7"	1'-2"	5¼" Min.; 7¾" Max.	7"	1'-7¾"	3	4	3¾"	3"	1'-3"	6"	6"
	2	L5x5x½	L5x5x½	L5x5x½	⅜"	Varies	4¼"	7"	4'-10½"	3½"	5'-9"	Varies	4¾"	7"	6¾"	6"	1'-4"	1	3	4"	2¼"	4"	4"	4"
	3	L5x5x½	L5x5x½	L5x5x½	⅜"	10'-8 3/16"	4"	4¼"	5'-2¼"	2½"	5'-9"	5 1/16"	4¾"	7"	5¾"	6"	1'-4"	1	3	4"	2¼"	6"	4"	4"
	4	L5x5x½	L5x5x½	L5x5x½	½"	10'-8 3/16"	4¾"	1'-1"	4'-4½"	3½"	5'-9"	6 1/16"	4¾"	7"	7½"	6"	1'-4"	1	3	4"	2¼"	6"	4"	4"
2	1	L5x5x¾	L6x6x⅞	L5x5x¾	⅜"	Varies	4½"	3½"	3'-7"	1½"	4'-0"	Varies	5¼"	10½"	5¼" Min.; 6¾" Max.	4½"	1'-3"	2	3	3½"	2¾"	9¾"	4¼"	6"
	2	L4x4x½	L4x4x½	L4x4x½	⅜"	Varies	5"	1'-0½"	2'-8"	3½"	4'-0"	Varies	4"	7"	7½"	3¾"	1'-0¾"	1	2	4"	3"	6"	4"	4"
	3	L4x4x½	L4x4x½	L4x4x½	⅜"	Varies	3¾"	3½"	3'-5"	3½"	4'-0"	Varies	4"	7"	4½" Min.; 5¾" Max.	3¾"	1'-0¾"	1	2	4"	3"	4¼"	4"	4"
	4	L4x4x½	L4x4x½	L4x4x½	⅜"	Varies	3½"	3½"	3'-5"	3½"	4'-0"	Varies	4"	7"	4¼" Min.; 5½" Max.	3¾"	1'-0¾"	1	2	4"	3"	4"	4"	4"

STATE OF ARKANSAS
Allie Wagner
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BRIDGE ENGINEER

SHEET 2 OF 3
COMMON DETAILS OF CONTINUOUS
PLATE GIRDER UNITS
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 6/5/24
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FILENAME: b040904x14_sc2.dgn
SCALE: 1½" = 1'-0"

BRIDGE NO. 07694 DRAWING NO. 68592

PRINT DATE: 4/30/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	482	742
		07694 - COMMON DETAILS - 68593				

TABLE OF VARIABLES

Unit	"C"
1	2½"
2	2¼"

Notes:
All Structural Steel shall be ASTM A709, Grade 50W unless otherwise noted, and shall be paid for as "Structural Steel in Plate Girder Spans (M270-GR50W)."

For location of stiffeners and connection plates in Unit 1, see Dwg. Nos. 68575 & 68576.

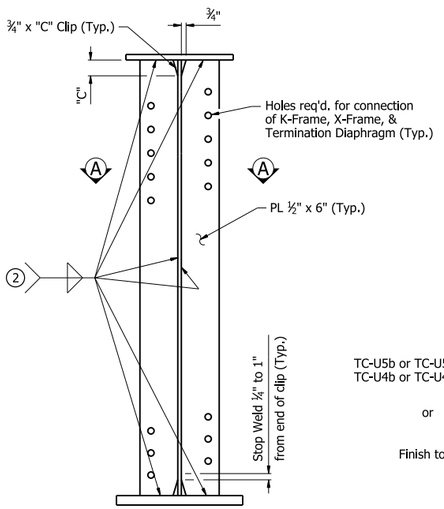
For location of stiffeners and connection plates in Unit 2, see Dwg. Nos. 68585 & 68586.

For details of X-Frames, see Dwg. No. 68577. For details of Termination Diaphragm, see Dwg. No. 68578. For details of K-Frames, see Dwg. No. 68592.

For "STANDARD DETAILS FOR POURED SILICONE JOINTS", see Std. Dwg. No. 55008.

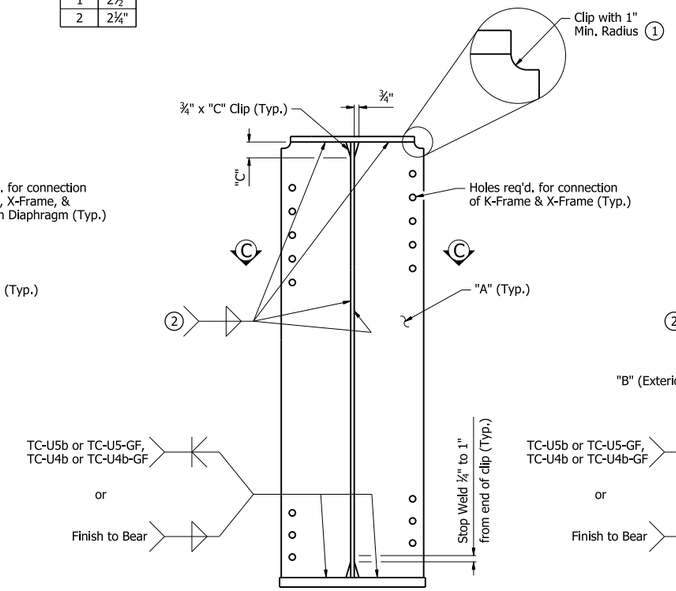
(1) If permanent steel bridge deck forms are used, the Fabricator shall clip the plates as necessary to accommodate the deck form support.

(2) See "WELD TABLE" for minimum weld sizes on Std. Dwg. No. 55007.



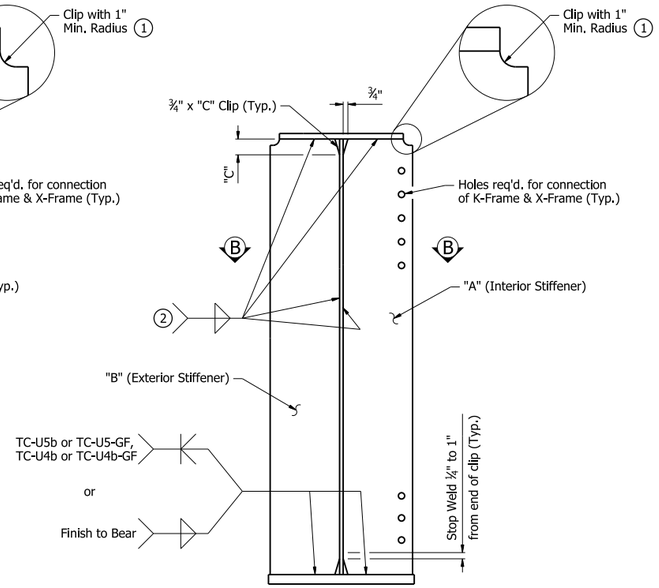
CONNECTION PLATES

(Located at K-Frame Type 1, X-Frame Type 1, and Termination Diaphragm)
1" = 1'-0"



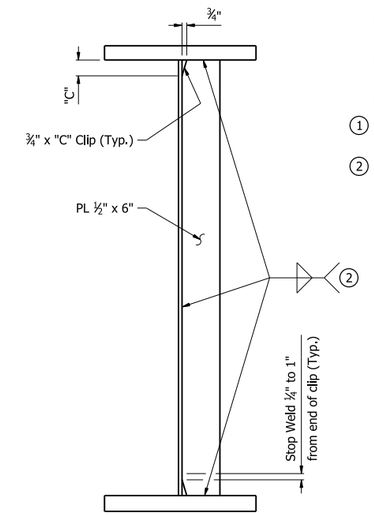
BEARING STIFFENERS AT INTERIOR GIRDERS

(Located at K-Frame Types 2-4 and X-Frame Type 2)
1" = 1'-0"



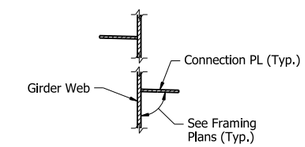
BEARING STIFFENERS AT EXTERIOR GIRDERS

(Located at K-Frame Types 2-4, Lean-On Brace, and X-Frame Type 2)
1" = 1'-0"



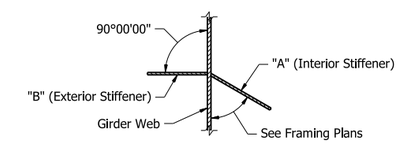
TRANSVERSE STIFFENER

1" = 1'-0"



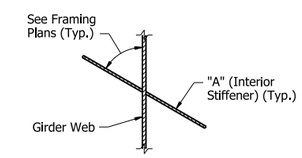
SECTION A-A

1" = 1'-0"



SECTION B-B

1" = 1'-0"



SECTION C-C

1" = 1'-0"

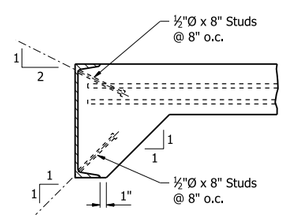
TABLE OF BEARING STIFFENERS

Bent No.	"A"	"B"
1	PL 1" x 10½"	PL 1" x 9½"
2	PL 1⅛" x 12¾"	PL 1⅛" x 11½"
3 (Back Bearing)	PL 1" x 10½"	PL 1" x 9½"
3 (Ahead Bearing)	PL ⅞" x 8⅞"	PL ⅞" x 8⅛"
4	PL 1" x 11⅛"	PL 1" x 10⅛"
5	PL 1" x 11⅛"	PL 1" x 10⅛"
6	PL ⅞" x 8⅞"	PL ⅞" x 8⅛"

TABLE OF SILICONE JOINT DATA

Bent No.	"A" - Width perpendicular to joint at 24 hour average temperature of:			"B" - Width perpendicular to joint at 24 hour average temperature of:	Bumper Plate Size
	40° F	60° F	80° F	60° F	
1	2 3/16"	2"	1 13/16"	3"	1" x 1" x 12"
6	2¼"	2"	1¾"	3"	1" x 1" x 12"

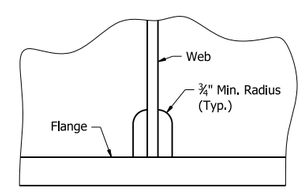
The temperature used to set the joint opening shall be the approximate average air temperature during the 24 hour period immediately before the bolts are tightened. The Engineer shall establish the temperature. Interpolation of the table may be necessary. Installation is limited to 40° F min. and 80° F max. The temperature limitations by the lubricant-adhesive manufacturer shall be observed.



Note:
As an alternate to ⅝"Ø studs, ½"Ø x 8" studs spaced as shown may be used. Use weight of ⅝"Ø stud as basis of measurement of structural steel in anchors.

DETAILS OF ALTERNATE ANCHORS

1" = 1'-0"



Height and width of clip shall be as noted in other details.

ALTERNATIVE CLIP DETAIL

No Scale
(For Bearing Stiffeners, Transverse Stiffeners, and Cross-frame Connection Plates)

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
No. 22390
ALLIE WAGNER
5/4/26
BRIDGE ENGINEER

SHEET 3 OF 3
COMMON DETAILS OF CONTINUOUS PLATE GIRDER UNITS
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

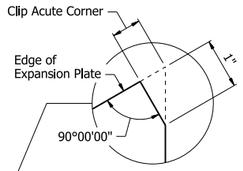
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 6/5/24
CHECKED BY: CZ DATE: 6/6/24
DESIGNED BY: JRR DATE: 11/12/23
FILENAME: b040904x14_sc3.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68593

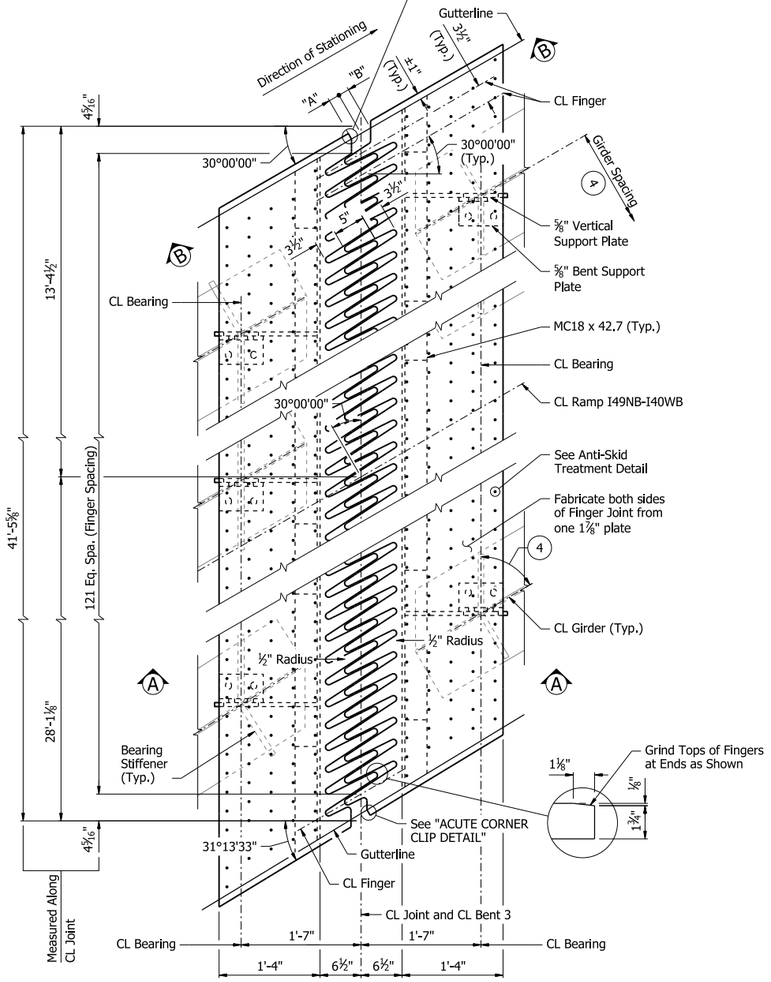
PRINT DATE: 4/10/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	483	742
		07694 - FINGER JOINT - 68594				



ACUTE CORNER CLIP DETAIL

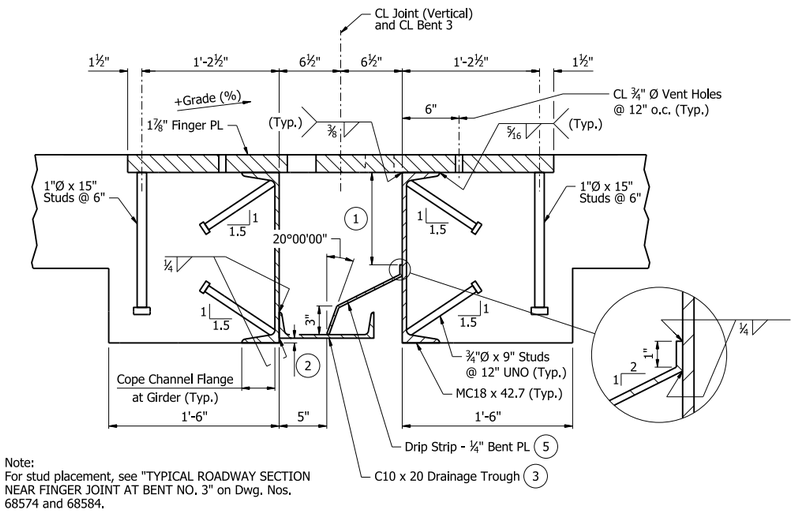
No Scale



EXPANSION PLATE DETAIL

1" = 1'-0"

Note:
For Bearing Stiffener details, see Dwg. No. 68593



Note:
For stud placement, see "TYPICAL ROADWAY SECTION NEAR FINGER JOINT AT BENT NO. 3" on Dwg. Nos. 68574 and 68584.

SECTION A-A

1½" = 1'-0"

Notes:
All structural steel, except the rail slider plates, shall be ASTM A709, Gr. 50W. Rail plates shall be ASTM A709, Gr. 36 and shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)". The surfaces of the rail slider plates which will not be in contact with the concrete shall be cleaned and painted in accordance with Section 638, or as directed by the Engineer. Only one coat is required and shall be applied in the fabricator's shop. Painting shall not be paid for directly, but will be considered subsidiary to "Structural Steel in Plate Girder Spans (M270-Gr50W)".

All studs shall be granular flux filled, solid fluxed, or equal, and automatically end welded to the Plates or channels in accordance with recommendations of the manufacturer.

The temperature used to set the joint opening shall be the approximate average air temperature during the preceding 24 hour period immediately before the bolts are tightened. The Engineer shall establish the temperature. Interpolation of the table may be necessary. Installation is limited to 40 degrees F min. and 80 degrees F max.

The finger joint shall be set and adjusted for grade before closure pours are made.

All dimensions are given in the horizontal plane and shall be adjusted for cross slope and profile. The expansion device shall be fabricated and installed to the grade of the roadway.

Dimensions shown are at 60° F for all details, UNO.

Concrete shall be hand packed under the joint armor.

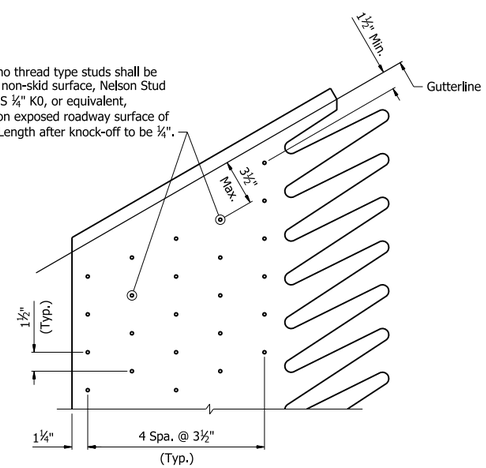
All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the joint.

Maximum Joint total movement = 3¾".

For "SECTION B-B", see Dwg. No. 68595.

1. Varies - 2" @ High Side Gutterline to 9¾" @ Low Side Gutterline.
2. Varies - 8¼" @ High Side Gutterline to ½" @ Low Side Gutterline.
3. Install drainage trough on the downhill side.
4. See Framing Plans for Girder spacing and angles.
5. On the High Side, clip end of Drip Strip to match the Gutterline.

Fluxed knock-off no thread type studs shall be used to provide a non-skid surface, Nelson Stud NBL ¼" dia. x 1 MS ¼" K0, or equivalent, placed as shown on exposed roadway surface of all finger plates. Length after knock-off to be ¼".



ANTI-SKID TREATMENT DETAIL

No Scale

TABLE OF FINGER JOINT DATA

Bridge No.	Bent No.	"A" Width (in) Parallel with CL Fingers at 24 Hour Average Temperature of:			"B" Width (in) Parallel with CL Fingers at 24 Hour Average Temperature of:		
		40° F	60° F	80° F	40° F	60° F	80° F
07694	3	2"	1¾"	1½"	2"	1¾"	1½"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF FINGER JOINT
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

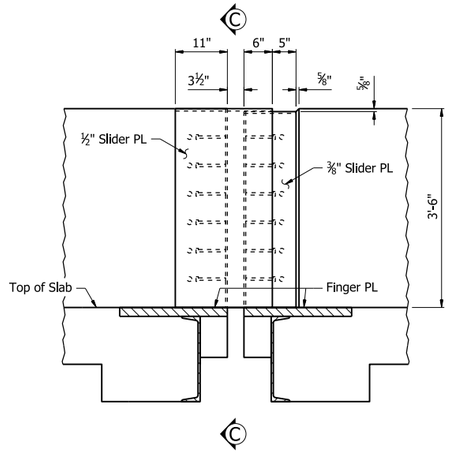
LITTLE ROCK, ARK.

DRAWN BY: KNK DATE: 8/8/24
CHECKED BY: RLW DATE: 8/21/24
DESIGNED BY: RLW DATE: 4/25/24
FILENAME: b040904x14_fj1.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68594

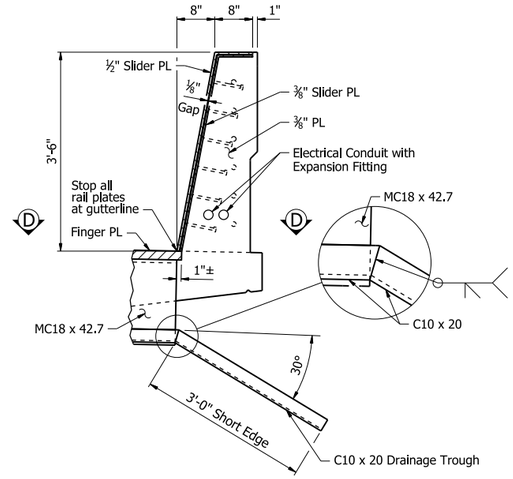
PRINT DATE: 4/23/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	484	742
		07694 - FINGER JOINT - 68595				



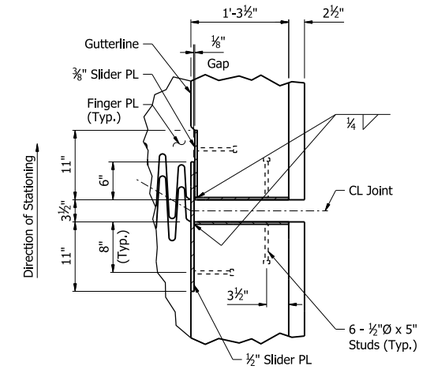
SECTION B-B

¾" = 1'-0"



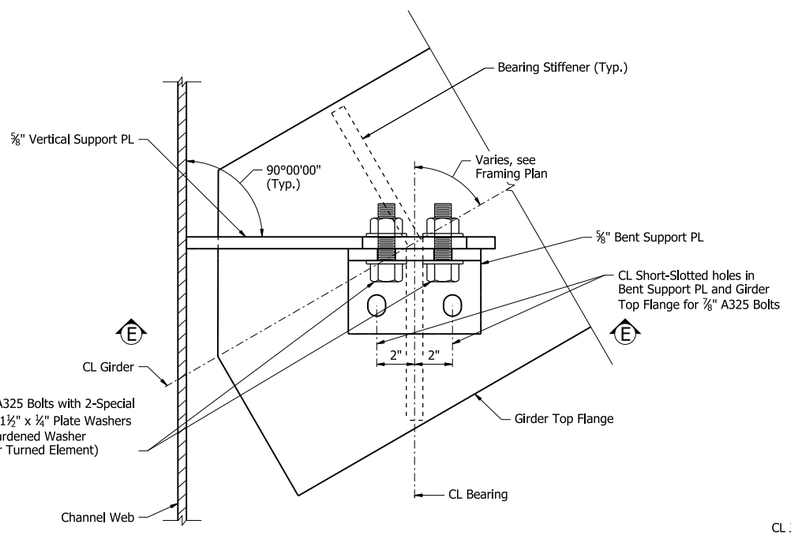
SECTION C-C

¾" = 1'-0"



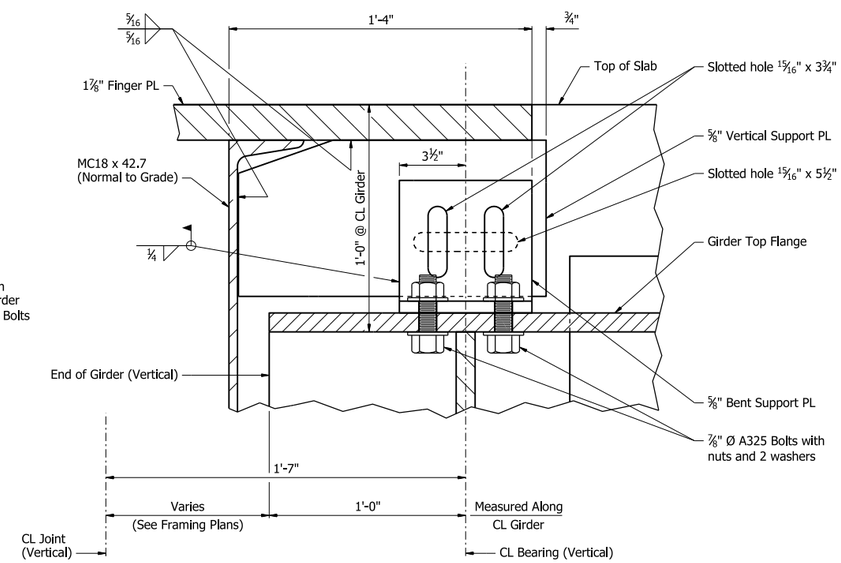
SECTION D-D

1" = 1'-0"



PLAN OF CONNECTION TO GIRDER

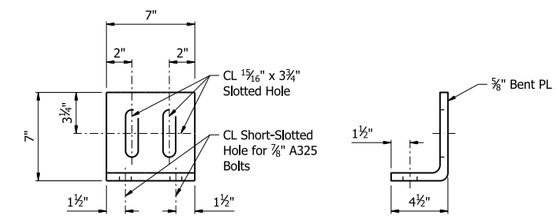
(Exterior Girder shown, others similar)
No Scale



SECTION E-E

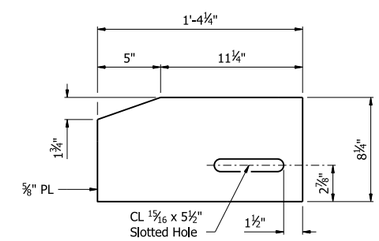
3" = 1'-0"

Note: Longitudinal dimensions are horizontal and measured normal to CL Joint, UNO



BENT SUPPORT PLATE

2" = 1'-0"



VERTICAL SUPPORT PLATE

2" = 1'-0"

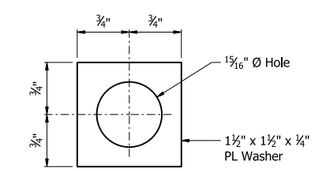


PLATE WASHER DETAIL

No Scale

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES

Brent T. Jones

5/4/26

BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF FINGER JOINT
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

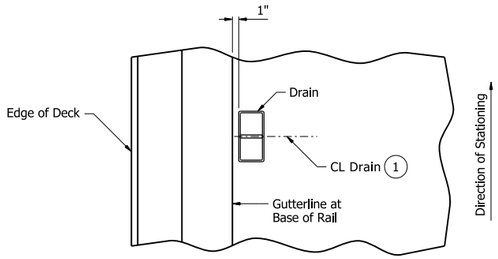
LITTLE ROCK, ARK.

DRAWN BY: KNK DATE: 8/8/24
CHECKED BY: RLW DATE: 8/21/24
DESIGNED BY: RLW DATE: 4/25/24
FILENAME: b040904x14_fj2.dgn
SCALE: AS NOTED

BRIDGE NO. 07694 DRAWING NO. 68595

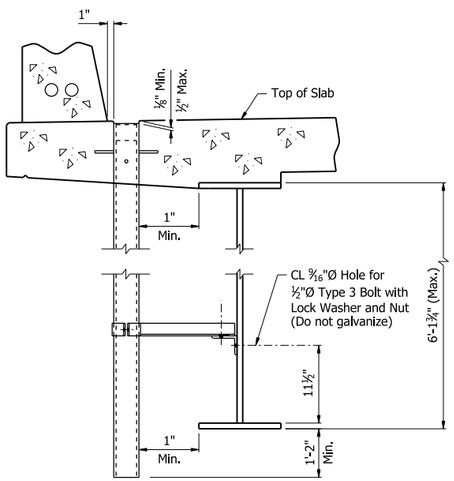
PRINT DATE: 3/16/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	485	742
		07694 - DECK DRAINAGE - 68596				

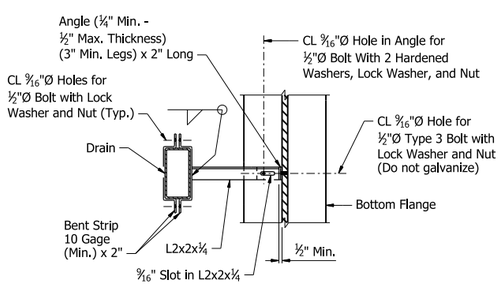


PART PLAN OF SLAB AT DRAIN

(1) See Slab Plans for location of drains.

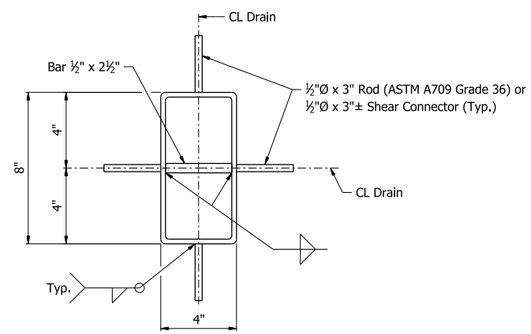


PART SECTION NEAR DRAIN

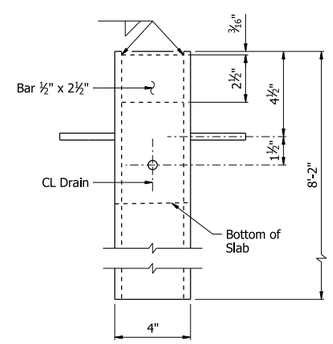


PART SECTION SHOWING BRACKET ASSEMBLY

DETAILS OF SLAB DRAINS



PLAN OF DRAIN



ELEVATION OF DRAIN

Notes:
Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in "PART SECTION NEAR DRAIN" and Stations shown in Slab Plans.

See Slab Plans for direction on shifting reinforcing steel to clear drains.

The bracket assembly shall be galvanized in accordance with Subsection 807.19. Any galvanized coating that is damaged during transportation or construction shall be repaired according to Subsection 807.88.

All bolt assemblies shall be Type 1, hot-dip galvanized, UNO in accordance with Subsection 807.06.

The galvanized surfaces of drain support brackets shall be prepared according to the coating manufacturer's recommendation and field coated with a gray epoxy-mastic primer (non-aluminum) within a distance of 6 inches from the point of connection to the weathering steel structure. Coating shall not be paid for directly, but shall be subsidiary to the drainage components.

Shop drawings will not be required for the slab drains and the bracket assembly.

The bolt hole for the bracket assembly attachment shall be located on the plate girder shop drawings.

Slab drains may be fabricated of either ¼" welded sheets of ASTM A709 Grade 36 steel or from ¼" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

All drainage components shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)".

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 1
DETAILS OF DECK DRAINAGE
I-49 NB TO I-40 WB
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

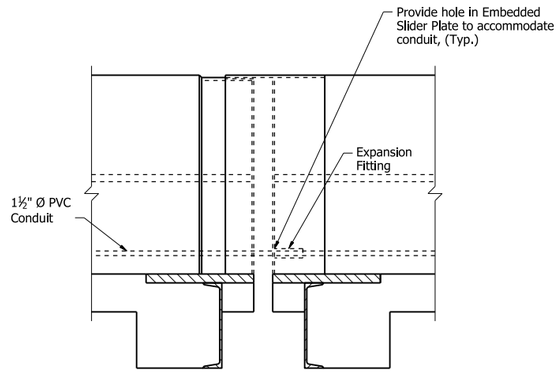
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KK DATE: 7/29/24
CHECKED BY: BTJ DATE: 9/4/24
DESIGNED BY: BTJ DATE: 7/24/24
FILENAME: b040904x14_dd1.dgn
SCALE: NO SCALE

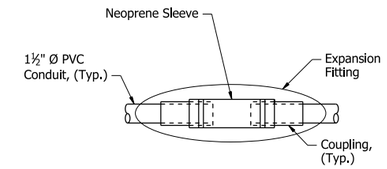
BRIDGE NO. 07694 DRAWING NO. 68596

PRINT DATE: 4/23/2026

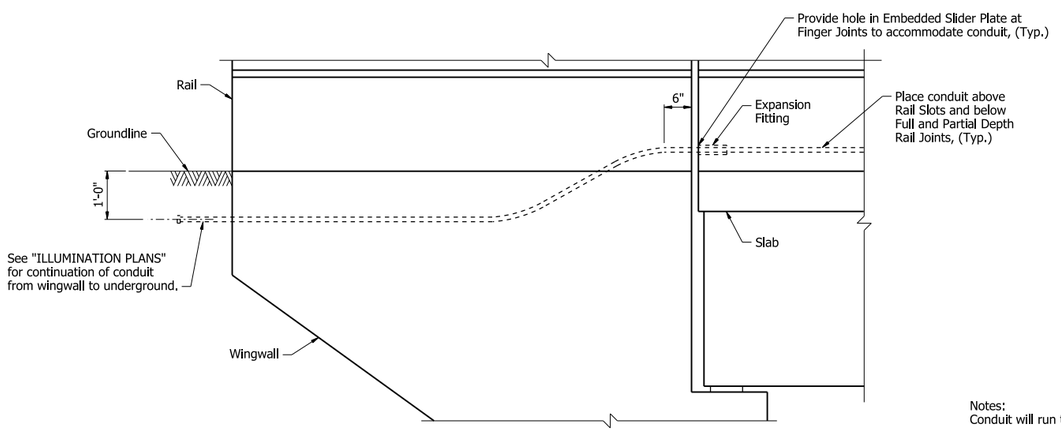
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	486	742
		07691, A7692, B7692, A7693, B7693, & 07694 - EXPANSION FITTING - 68597				



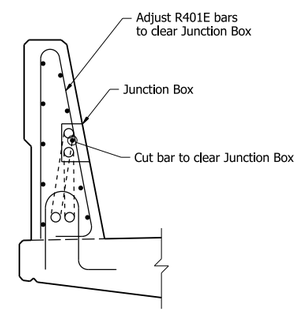
CONDUIT EXPANSION FITTING AT FINGER JOINTS
(Unit Change shown, End Bent similar)
Scale: ¾" = 1'-0"



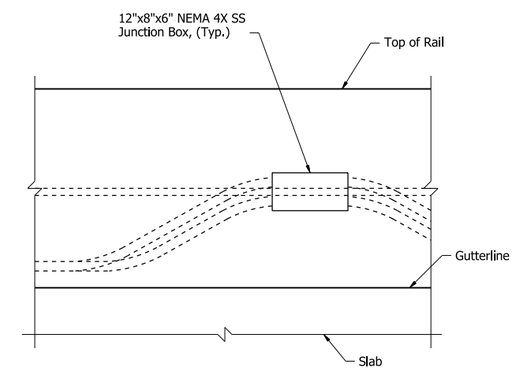
EXPANSION FITTING DETAIL
Scale: 1½" = 1'-0"



CONDUIT DETAIL AT END BENTS
(Strip Seal Joint shown, Finger Joint and Poured Silicone Joint similar)
Scale: ¾" = 1'-0"



SECTION AT JUNCTION BOX
Scale: ¾" = 1'-0"



ELEVATION AT JUNCTION BOX
Scale: ¾" = 1'-0"

Notes:
Conduit will run the full length of the rail.

For rail details, see Std. Dwg. Nos. 55070 & 55071.

Conduit shall conform with the Materials and Construction of Standard Specification, Section 710, "NON-METALLIC CONDUIT".

Conduit expansion joints will be required at every Bridge Expansion Joint Location and shall accommodate the movement shown on the Expansion Joint Details and in the General Notes. The Contractor can substitute alternate fittings provided the Bridge movement is accommodated and coordinated with the other elements.

Junction Boxes are required at a maximum of 500 foot spacing. Junction boxes shall be placed in the rail as shown and shift reinforcing steel in the field where necessary to clear junction boxes. Junction Boxes shall be coordinated with the Highway Lighting, and ITS Plans where those plans require additional boxes over and above those required by the maximum spacing.

Junction Boxes shall include a hinged or removable lid with gaskets, latches, and a padlock hasp. Lid shall include a lift tab.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES
Brent T. Jones
5/4/26
BRIDGE ENGINEER

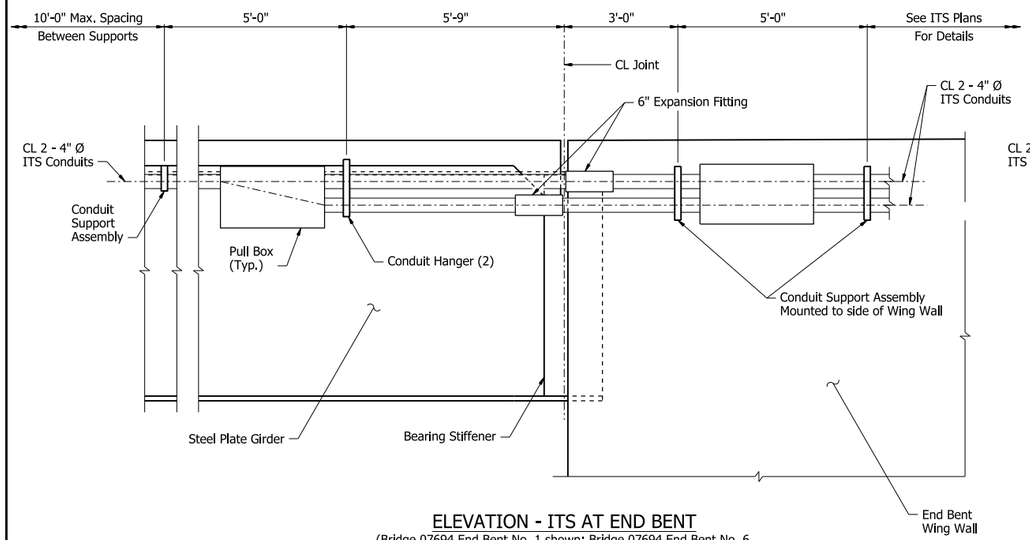
SHEET 1 OF 1
DETAILS OF CONDUIT AT BRIDGE TRAFFIC RAIL
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CEM DATE: 5/23/24
CHECKED BY: KNK DATE: 9/17/24
DESIGNED BY: BTJ DATE: 9/17/24
FILENAME: b040904_p1.dgn
SCALE: AS NOTED
BRIDGE NO. 07691, A7692, B7692, A7693, B7693, & 07694
DRAWING NO. 68597

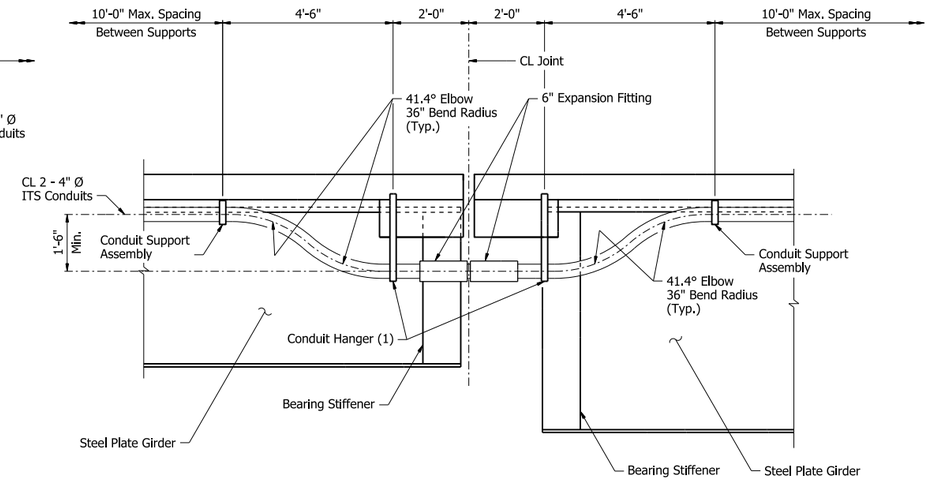
PRINT DATE: 4/2/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	487	742
		B7692 & 07694 - 68598				



ELEVATION - ITS AT END BENT

(Bridge 07694 End Bent No. 1 shown; Bridge 07694 End Bent No. 6, Bridge B7692 End Bents Nos. 1 & 6 similar)



ELEVATION - ITS AT FINGER JOINT

(Bridge 07694)

Notes:
Place conduit expansion fittings at 150' max. spacing between bridge expansion joints. Expansion fittings should be located near ITS Supports.

For General Notes, see Dwg. No. 68476.

See ITS Plans for additional details.

All Conduits shall be Galvanized Steel in accordance with Subsection 709.02. Conduits, Support Assemblies, Hanger Assemblies, Anchors, Pull Boxes, and all expansion fittings are paid for in the ITS and Illumination Plans. See ITS and Illumination Plans for quantity and pay item.

All ITS support components shall be hot-dip galvanized after fabrication in accordance with Subsection 807.19. Any galvanized coating that is damaged during transportation or construction, including field drilling, shall be repaired according to Subsection 807.88.

Contractor is required to tag each conduit with a number so that they can be matched from end to end.

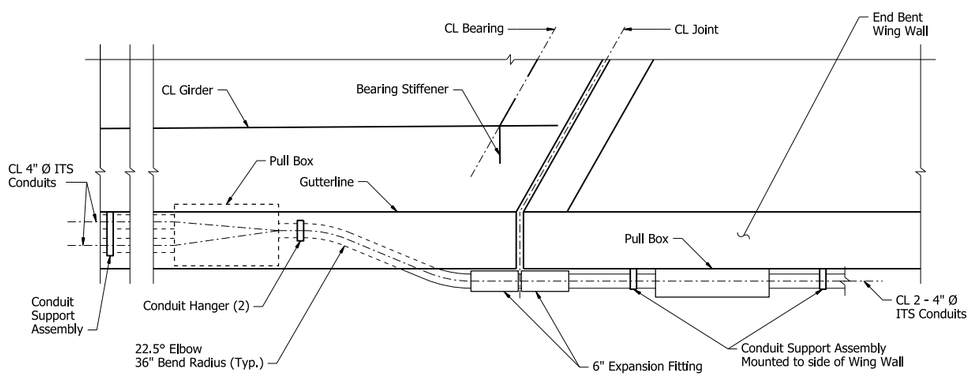
Weight of cable inside each conduit shall not exceed 2 lb/ft.

Conduits shall be bonded at each pull box location using grounding-type bushings. Conduits shall be bonded continuously across all expansion fittings using bonding straps.

The bridge-mounted ITS Conduit Systems shall each be continuously bonded throughout the entire run. Conduit systems shall be bonded to a conduit grounding system on each end of the bridge. See ITS & Illumination plans and specifications for details of the conduit grounding system.

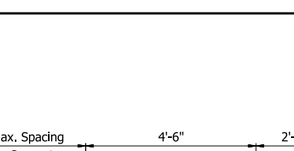
Pipe spacers shall be ASTM A53 STD Pipe. HSS shall be ASTM A501.

Post-installed expansion anchors shall be used for all stud anchors and threaded rods. Adhesive anchors will not be permitted. Provide threaded rods that are AASHTO M 314, GR 36 with steel washer (ASTM F436) and lock washer placed under heavy hex nut (ASTM A563). Anchor rods, nuts, and washers shall be galvanized in accordance with Subsection 807.07. Provide minimum embedment as shown on the plans. Anchor chosen must be able to achieve a factored design strength in tension of 1.2 kips per anchor (edge distance, spacing, overhead sustained tension, cracked concrete must be accounted for). Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor's ability to develop this load to the Engineer for approval prior to use. Certification from an applicable certification program shall be provided for personnel installing the the anchors.

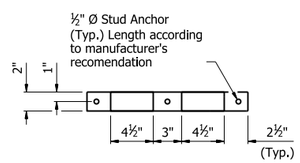


PLAN - ITS AT END BENT

(Bridge 07694 End Bent 1 No. shown; Bridge 07694 End Bent No. 6, Bridge B7692 End Bents Nos. 1 & 6 similar)

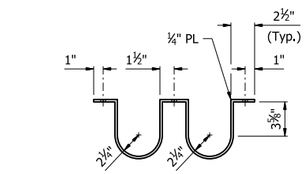


PLAN

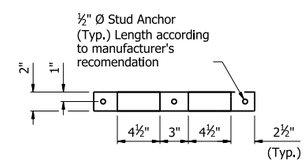


ELEVATION

CONDUIT BRACKET DETAIL

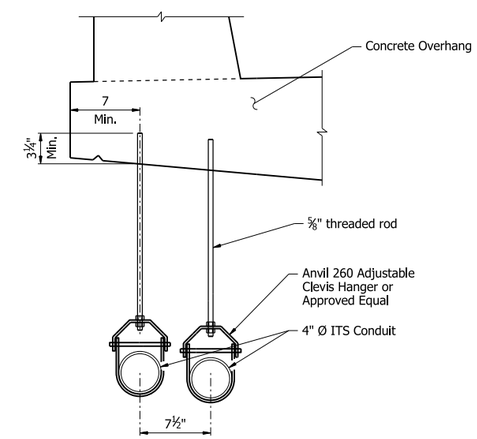


PLAN

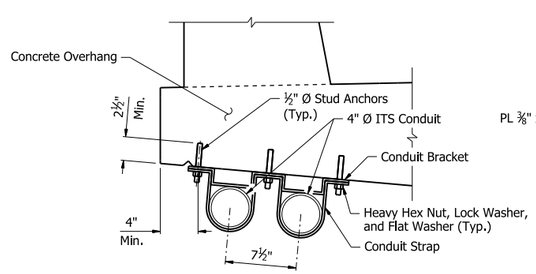


ELEVATION

CONDUIT STRAP DETAIL

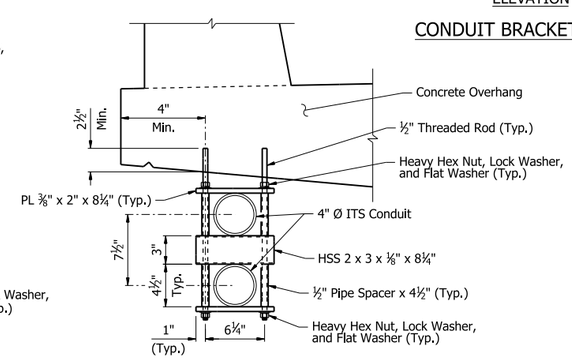


CONDUIT HANGER (1) DETAIL



CONDUIT SUPPORT ASSEMBLY

(Overhang mount shown, Wing Wall mount similar)



CONDUIT HANGER (2) DETAIL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES

Brent T. Jones

5/4/26

BRIDGE ENGINEER

SHEET 1 OF 1
DETAILS OF ITS CONDUIT
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

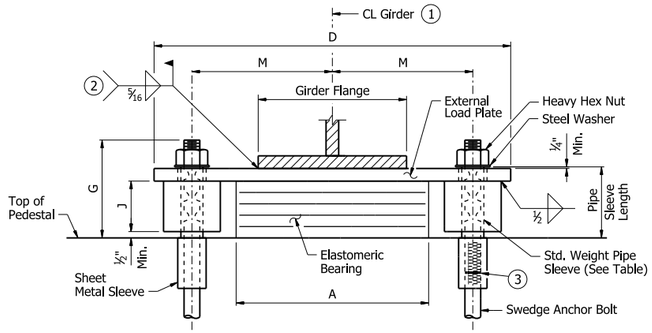
DRAWN BY:	KNK	DATE:	9/6/24	FILENAME:	b040904_ut1.dgn
CHECKED BY:	BTJ	DATE:	9/14/24	SCALE:	NO SCALE
DESIGNED BY:	AMW	DATE:	8/28/24		

BRIDGE NO. B7692 & 07694 DRAWING NO. 68598

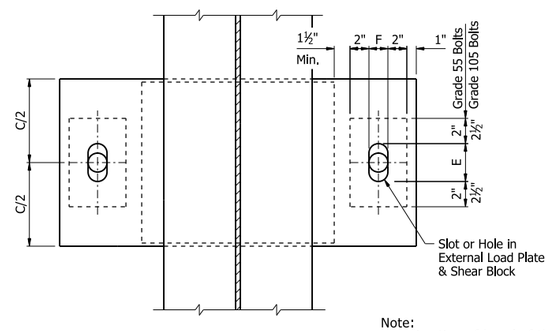
PRINT DATE: 4/11/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	488	742
		07691, A7692, B7692, A7693, B7693, & 07694 - ELASTO. BRGS. - 68599				

Prior to erection of the girders, the Contractor shall verify the orientation of the bearings with respect to Ta and Tb.

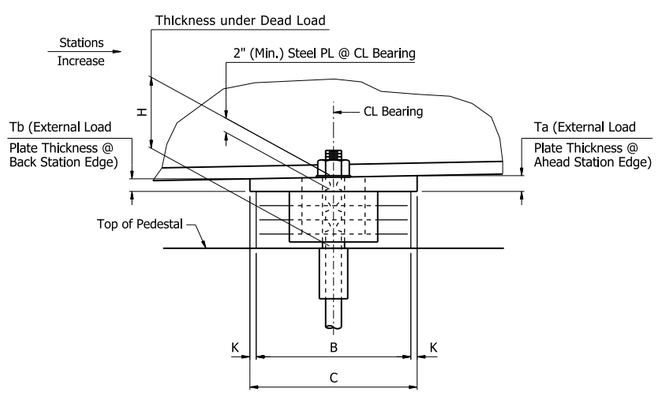


FRONT VIEW

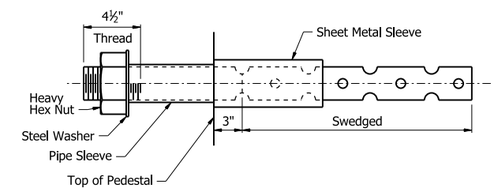


PLAN VIEW

Note:
The direction of bevel of the external load plate may not be accurately depicted with respect to "Ta" & "Tb" values shown in the "Table of Fabricator Variables".

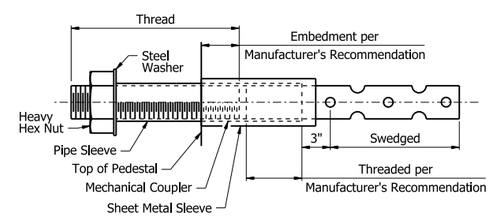


SIDE VIEW



(Grade 55 Anchor Bolts)

ANCHOR BOLT DETAIL

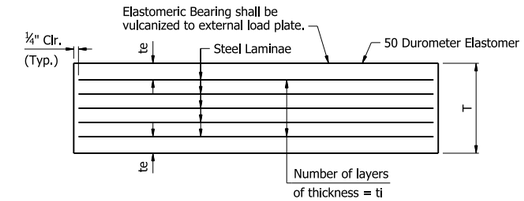


(Grade 105 Bolts with Mechanical Coupler)

ANCHOR BOLT DETAIL

Anchor Bolts may be cast in place or drilled and grouted into place. If Anchor Bolts are to be cast in place, the Galvanized Sheet Metal Sleeves will not be required.

If Anchor Bolts are to be drilled and grouted in place, the Galvanized Sheet Metal Sleeves shall be cast in place as shown. Sleeves shall be dry packed with styrofoam, urethane foam, or approved equal prior to pouring of concrete. After pouring of the cap and prior to erection of Structural Steel, the dry pack shall be removed and holes for the anchor bolts shall be accurately drilled into the concrete. Bolts placed in drilled holes shall be accurately set and fixed using a QPL approved epoxy or non-shrink grout that completely fills the holes. Galvanized Sheet Metal Sleeves shall meet the requirements of ASTM 653, CS Type B or approved equivalent, be of minimum 16 gauge thickness, and be galvanized according to ASTM B695, Class 50. Sheet Metal Sleeves will not be paid for directly, but will be considered subsidiary to the item "Structural Steel in Plate Girder Spans (M270-Gr50 or Gr50W)."



te = Thickness of elastomer cover on top and bottom of pad
ti = Thickness of elastomer between steel laminae
N = Number of elastomer layers of thickness ti

ELASTOMERIC BEARING

GENERAL NOTES
Elastomeric Bearings Shall conform to Section 808 and shall be paid for at the unit price bid for "Elastomeric Bearings".

External load plates and shear blocks shall conform to ASTM A709, Grade 50 or 50W. Pipe sleeves shall be ASTM A500, Grade B, and shall be galvanized to conform to AASHTO M 232, Class C or ASTM B695, Class 50.

External load plates and shear blocks shall be completely fabricated (including bevel, bolt holes, and all shop welding) and shall be cleaned before vulcanizing to the elastomeric bearing. The surface in contact with the elastomeric bearing shall be cleaned in accordance with Subsection 808.03. Other surfaces shall be blast cleaned in accordance with Subsection 807.84(b) for painted steel and 807.84(e) for unpainted Grade 50W steel.

Anchor Bolts, Washers and Nuts shall conform to Subsection 807.07. The anchor bolt grade of steel shall be as specified in the "Table of Fabricator Variables". Indentations shall be circular with rounded bottoms and staggered as shown in the details.

Pipe Sleeves, Anchor Bolts, Washers and Nuts shall be paid for at the unit price bid for "Structural Steel in Plate Girder Spans (M270-Gr50 or Gr50W)". External load plates, mechanical couplers, and shear blocks will not be measured or paid for separately, but will be considered subsidiary to the unit price bid for "Elastomeric Bearings".

Bearings shall be seated in accordance with Subsection 808.08. This work and materials are considered subsidiary to the item "Elastomeric Bearing" and will not be paid for directly.

(1) Centerline Elastomeric Pad shall be aligned with Centerline Girder.

(2) Unless otherwise approved by the Engineer, welding of the external load plate at bearings to the girder will be allowed only when: 1) the approximate average air temperature during the 24 hour period immediately preceding welding is between 40°F and 80°F; and 2) the slots in the external load plate are positioned to center on the anchor bolts; and 3) no horizontal deformation of the elastomeric pad is evident. If welding at other temperatures is required, the Engineer will provide adjustment data.

Bearings shall be painted as specified in Subsection 807.75. The color of paint shall be Brown equal or close Federal St. 595B, Color Chip No. 30070 and as approved by the Engineer. The finish system shall be applied in the shop. Areas to be field welded shall be masked and painted in the field per the manufacturer's recommendations.

Any damage to the paint system occuring during transport or installation shall be corrected according to the manufacturer's recommendations at no cost the Department.

Care shall be taken to ensure that the external load plate is in full and complete contact with the girder flange before welding begins.

(3) For Grade 105 Bolts, provide mechanical coupler in accordance with AASHTO M 292, Grade 2H. Contractor to adjust size of sheet metal sleeve to accommodate coupler, typ.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF ELASTOMERIC BEARINGS
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CCD DATE: 7/2/24 FILENAME: b040904_eb1.dgn
CHECKED BY: CZ DATE: 7/22/24 SCALE: No Scale
DESIGNED BY: CZ DATE: 6/4/24
BRIDGE NO. 07691, A7692, B7692, A7693, B7693, & 07694 DRAWING NO. 68599

PRINT DATE: 4/2/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	489	742
		07691, A7692, B7692, A7693, B7693, & 07694 - ELASTO. BRGS. - 68600				

Maximum Design Load = Service I Limit State

TABLE OF FABRICATOR VARIABLES

BRIDGE NO(S).	LOCATION		BEARING TYPE	NO. OF BEARINGS EACH BENT	MAXIMUM DESIGN LOAD (KIPS)	G	H	ELASTOMERIC PAD							EXTERNAL LOAD PLATE									ANCHOR BOLT				
	BENT NO(S).	GIRDER NO.						A	B	N	t_i	t_e	NO. & THICKNESS OF STEEL LAMINAE	T	C	D	E	F	J	K	M	T_a	T_b	ANCHOR BOLT (Ø x L)	ANCHOR BOLT GRADE	PIPE SLEEVE SIZE (Ø x L)	SHEET METAL SLEEVE SIZE (Ø x L)	WASHER SIZE (O.D.)
07691	1	All	Exp	4	177.1	9⅛"	5⅝"	18	12	5	½"	¼"	6 @ 12 ga.	3⅝"	14"	37½"	6"	3⅛"	2¼"	1"	14 3/16"	2.56"	1.44"	2¼" x 33"	55	2¼" x 5⅞"	4" x 23"	4"
	2	All	Fix	4	473.3	8¾"	5"	22	14	4	½"	¼"	5 @ 12 ga.	3"	16"	42½"	3¾"	3¾"	2¼"	1"	16⅜"	1.98"	2.02"	2½" x 34"	55	3" x 5¼"	4" x 25"	4½"
	3	All	Exp	4	133.9	11"	7 7/16"	18	12	8	½"	¼"	9 @ 12 ga.	5 7/16"	14"	37½"	6"	3⅛"	2¼"	1"	14 3/16"	1.55"	2.45"	2¼" x 34"	55	2½" x 7¾"	4" x 23"	4"

BRIDGE NO(S).	LOCATION		BEARING TYPE	NO. OF BEARINGS EACH BENT	MAXIMUM DESIGN LOAD (KIPS)	G	H	ELASTOMERIC PAD							EXTERNAL LOAD PLATE									ANCHOR BOLT				
	BENT NO(S).	GIRDER NO.						A	B	N	t_i	t_e	NO. & THICKNESS OF STEEL LAMINAE	T	C	D	E	F	J	K	M	T_a	T_b	ANCHOR BOLT (Ø x L)	ANCHOR BOLT GRADE	PIPE SLEEVE SIZE (Ø x L)	SHEET METAL SLEEVE SIZE (Ø x L)	WASHER SIZE (O.D.)
A7692	1	All	Exp	5	191.6	11⅞"	8 1/16"	18	12	9	½"	¼"	10 @ 12 ga.	6 1/16"	14"	38½"	9"	3¾"	2¼"	1"	14⅜"	2.04"	1.96"	2½" x 37"	55	3" x 8⅜"	4" x 25"	4½"
	2	All	Exp	5	443.2	9⅜"	5⅝"	24	12	5	½"	¼"	6 @ 12 ga.	3⅝"	14"	44½"	7"	3¾"	2¼"	1"	17⅜"	2.06"	1.94"	2½" x 35"	55	3" x 5⅞"	4" x 25"	4½"
	3	All	Fix	5	385.0	8¾"	5"	20	12	4	½"	¼"	5 @ 12 ga.	3"	14"	40½"	3¾"	3¾"	2½"	1"	15⅜"	2.02"	1.98"	2½" x 34"	55	3" x 5¼"	4" x 25"	4½"
	4	All	Fix	5	384.9	8¾"	5"	20	12	4	½"	¼"	5 @ 12 ga.	3"	14"	40½"	3¾"	3¾"	2½"	1"	15⅜"	1.99"	2.01"	2½" x 34"	55	3" x 5¼"	4" x 25"	4½"
	5	All	Exp	5	445.0	9⅜"	5⅝"	24	12	5	½"	¼"	6 @ 12 ga.	3⅝"	14"	44½"	7"	3¾"	2¼"	1"	17⅜"	1.97"	2.04"	2½" x 35"	55	3" x 5⅞"	4" x 25"	4½"
	6	All	Exp	5	186.2	11⅞"	8 1/16"	18	12	9	½"	¼"	10 @ 12 ga.	6 1/16"	14"	38½"	9"	3¾"	2¼"	1"	14⅜"	1.97"	2.04"	2½" x 37"	55	3" x 8⅜"	4" x 25"	4½"

BRIDGE NO(S).	LOCATION		BEARING TYPE	NO. OF BEARINGS EACH BENT	MAXIMUM DESIGN LOAD (KIPS)	G	H	ELASTOMERIC PAD							EXTERNAL LOAD PLATE									ANCHOR BOLT				
	BENT NO(S).	GIRDER NO.						A	B	N	t_i	t_e	NO. & THICKNESS OF STEEL LAMINAE	T	C	D	E	F	J	K	M	T_a	T_b	ANCHOR BOLT (Ø x L)	ANCHOR BOLT GRADE	PIPE SLEEVE SIZE (Ø x L)	SHEET METAL SLEEVE SIZE (Ø x L)	WASHER SIZE (O.D.)
B7692	1	All	Exp	5	189.1	11⅞"	8 1/16"	18	12	9	½"	¼"	10 @ 12 ga.	6 1/16"	14"	38½"	9"	3¾"	2¼"	1"	14⅜"	2.04"	1.96"	2½" x 37"	55	3" x 8⅜"	4" x 25"	4½"
	2	All	Exp	5	440.0	9⅜"	5⅝"	24	12	5	½"	¼"	6 @ 12 ga.	3⅝"	14"	44½"	7"	3¾"	2¼"	1"	17⅜"	2.04"	1.96"	2½" x 35"	55	3" x 5⅞"	4" x 25"	4½"
	3	All	Fix	5	381.6	8¾"	5"	20	12	4	½"	¼"	5 @ 12 ga.	3"	14"	40½"	3¾"	3¾"	2½"	1"	15⅜"	2.01"	1.99"	2½" x 34"	55	3" x 5¼"	4" x 25"	4½"
	4	All	Fix	5	383.4	8¾"	5"	20	12	4	½"	¼"	5 @ 12 ga.	3"	14"	40½"	3¾"	3¾"	2½"	1"	15⅜"	1.98"	2.02"	2½" x 34"	55	3" x 5¼"	4" x 25"	4½"
	5	All	Exp	5	439.8	9⅜"	5⅝"	24	12	5	½"	¼"	6 @ 12 ga.	3⅝"	14"	44½"	7"	3¾"	2¼"	1"	17⅜"	1.97"	2.04"	2½" x 35"	55	3" x 5⅞"	4" x 25"	4½"
	6	All	Exp	5	173.5	11⅞"	8 1/16"	18	12	9	½"	¼"	10 @ 12 ga.	6 1/16"	14"	38½"	9"	3¾"	2¼"	1"	14⅜"	1.97"	2.04"	2½" x 37"	55	3" x 8⅜"	4" x 25"	4½"

BRIDGE NO(S).	LOCATION		BEARING TYPE	NO. OF BEARINGS EACH BENT	MAXIMUM DESIGN LOAD (KIPS)	G	H	ELASTOMERIC PAD							EXTERNAL LOAD PLATE									ANCHOR BOLT				
	BENT NO(S).	GIRDER NO.						A	B	N	t_i	t_e	NO. & THICKNESS OF STEEL LAMINAE	T	C	D	E	F	J	K	M	T_a	T_b	ANCHOR BOLT (Ø x L)	ANCHOR BOLT GRADE	PIPE SLEEVE SIZE (Ø x L)	SHEET METAL SLEEVE SIZE (Ø x L)	WASHER SIZE (O.D.)
A7693	1	All	Exp	5	152.4	11"	7 7/16"	18	12	8	½"	¼"	9 @ 12 ga.	5 7/16"	14"	37½"	6"	3⅛"	2"	1"	14 3/16"	2.06"	1.94"	2¼" x 34"	55	2½" x 7¾"	4" x 23"	4"
	2	All	Fix	5	427.9	8¾"	5"	21	12	4	½"	¼"	5 @ 12 ga.	3"	14"	41½"	3¾"	3¾"	2"	1"	15⅞"	2.03"	1.97"	2½" x 34"	55	3" x 5¼"	4" x 25"	4½"
	3	All	Fix	5	428.0	8¾"	5"	21	12	4	½"	¼"	5 @ 12 ga.	3"	14"	41½"	3¾"	3¾"	2"	1"	15⅞"	1.99"	2.01"	2½" x 34"	55	3" x 5¼"	4" x 25"	4½"
	4	All	Exp	5	153.2	11"	7 7/16"	18	12	8	½"	¼"	9 @ 12 ga.	5 7/16"	14"	37½"	6"	3⅛"	2"	1"	14 3/16"	1.96"	2.04"	2¼" x 34"	55	2½" x 7¾"	4" x 23"	4"

BRIDGE NO(S).	LOCATION		BEARING TYPE	NO. OF BEARINGS EACH BENT	MAXIMUM DESIGN LOAD (KIPS)	G	H	ELASTOMERIC PAD							EXTERNAL LOAD PLATE									ANCHOR BOLT				
	BENT NO(S).	GIRDER NO.						A	B	N	t_i	t_e	NO. & THICKNESS OF STEEL LAMINAE	T	C	D	E	F	J	K	M	T_a	T_b	ANCHOR BOLT (Ø x L)	ANCHOR BOLT GRADE	PIPE SLEEVE SIZE (Ø x L)	SHEET METAL SLEEVE SIZE (Ø x L)	WASHER SIZE (O.D.)
B7693	1	All	Exp	5	152.4	11"	7 7/16"	18	12	8	½"	¼"	9 @ 12 ga.	5 7/16"	14"	37½"	6"	3⅛"	2"	1"	14 3/16"	2.03"	1.97"	2¼" x 34"	55	2½" x 7¾"	4" x 23"	4"
	2	All	Fix	5	427.9	8¾"	5"	21	12	4	½"	¼"	5 @ 12 ga.	3"	14"	41½"	3¾"	3¾"	2"	1"	15⅞"	2.00"	2.00"	2½" x 34"	55	3" x 5¼"	4" x 25"	4½"
	3	All	Fix	5	428.0	8¾"	5"	21	12	4	½"	¼"	5 @ 12 ga.	3"	14"	41½"	3¾"	3¾"	2"	1"	15⅞"	1.96"	2.04"	2½" x 34"	55	3" x 5¼"	4" x 25"	4½"
	4	All	Exp	5	153.2	11"	7 7/16"	18	12	8	½"	¼"	9 @ 12 ga.	5 7/16"	14"	37½"	6"	3⅛"	2"	1"	14 3/16"	1.93"	2.07"	2¼" x 34"	55	2½" x 7¾"	4" x 23"	4"

BRIDGE NO(S).	LOCATION		BEARING TYPE	NO. OF BEARINGS EACH BENT	MAXIMUM DESIGN LOAD (KIPS)	G	H	ELASTOMERIC PAD							EXTERNAL LOAD PLATE									ANCHOR BOLT				
	BENT NO(S).	GIRDER NO.						A	B	N	t_i	t_e	NO. & THICKNESS OF STEEL LAMINAE	T	C	D	E	F	J	K	M	T_a	T_b	ANCHOR BOLT (Ø x L)	ANCHOR BOLT GRADE	PIPE SLEEVE SIZE (Ø x L)	SHEET METAL SLEEVE SIZE (Ø x L)	WASHER SIZE (O.D.)
07694	1	All	Exp	6	204.3	9⅛"	5⅝"	22	12	5	½"	¼"	6 @ 12 ga.	3⅝"	14"	41½"	6"	3⅛"	2¼"	1"	16 3/16"	1.97"	2.03"	2¼" x 33"	55	2½" x 5⅞"	4" x 23"	4"
	2	All	Fix	6	590.9	8½"	5"	26	14	4	½"	¼"	5 @ 12 ga.	3"	16"	45½"	3⅛"	3⅛"	2¼"	1"	18 3/16"	1.97"	2.03"	2¼" x 32"	105	2½" x 5¼"	4" x 23" **	4"
	3 (Back)	All	Exp	5	191.7	8½"	5"	22	12	4	½"	¼"	5 @ 12 ga.	3"	14"	41½"	6"	3⅛"	2¼"	1"	16 3/16"	1.97"	2.03"	2¼" x 32"	55	2½" x 5¼"	4" x 23"	4"
	3 (Ahead)	All	Exp	5	146.7	9⅛"	5⅝"	18	12	5	½"	¼"	6 @ 12 ga.	3⅝"	14"	37½"	6"	3⅛"	2¼"	1"	14 3/16"	1.97"	2.03"	2¼" x 33"	55	2½" x 5⅞"	4" x 23"	4"
	4	All	Fix	5	343.6	8½"	5"	22	12	4	½"	¼"	5 @ 12 ga.	3"	14"	41½"	3⅛"	3⅛"	2¼"	1"	16 3/16"	1.97"	2.03"	2¼" x 32"	55	2½" x 5¼"	4" x 23"	4"
	5	All	Fix	5	347.8	8½"	5"	22	12	4	½"	¼"	5 @ 12 ga.	3"	14"	41½"	3⅛"	3⅛"	2¼"	1"	16 3/16"	1.97"	2.03"	2¼" x 32"	55	2½" x 5¼"	4" x 23"	4"
	6	All	Exp	5	140.2	10⅜"	6 13/16"	18	12	7	½"	¼"	8 @ 12 ga.	4 13/16"	14"	37½"	6"	3⅛"	2¼"	1"	14 3/16"	1.97"	2.03"	2¼" x 34"	55	2½" x 7⅛"	4" x 23"	4"

** If anchor bolts are drilled and grouted in place, the Contractor shall adjust the size of the sheet metal sleeves for Grade 105 bolts to accommodate the mechanical coupler.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
★★★
No. 17233
QING LIU
5/4/26
BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF ELASTOMERIC BEARINGS
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

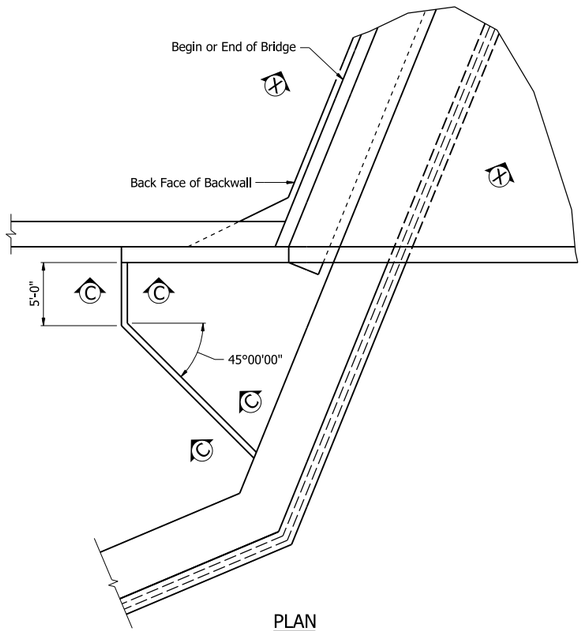
DRAWN BY: CCD DATE: 7/2/24 FILENAME: b040904_eb2.dgn
CHECKED BY: CZ DATE: 7/22/24 SCALE: No Scale
DESIGNED BY: CZ DATE: 6/4/24
BRIDGE NO. 07691, A7692, B7692, A7693, B7693, & 07694 DRAWING NO. 68600

PRINT DATE: 3/16/2026

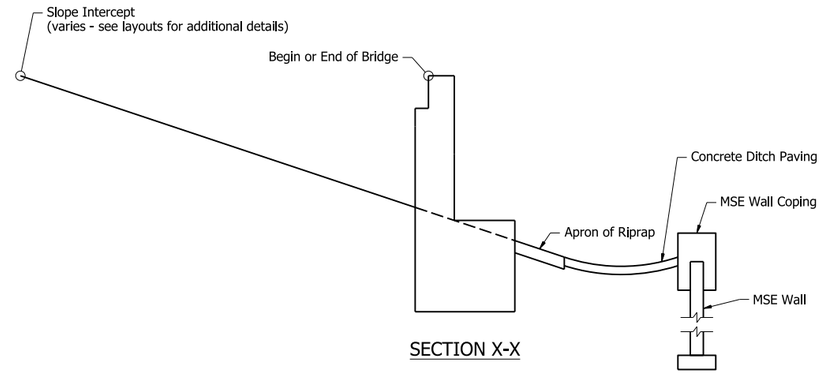
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	490	742
		07691, A7693, & B7693 - SUPP. CONC. RIPRAP - 68601				

Notes:
For Section C-C, see Std. Dwg. No. 55002.

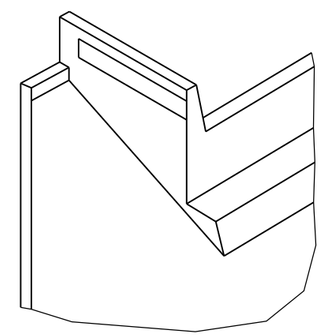
See Std. Dwg. No. 55002, layouts, and end bent plans for additional information.



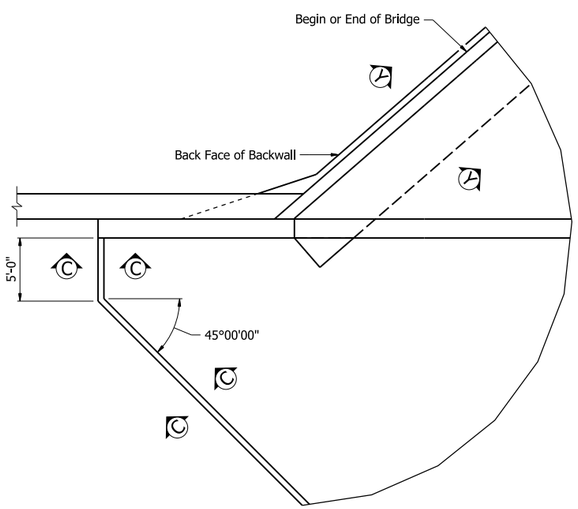
PLAN
Bridge 07691



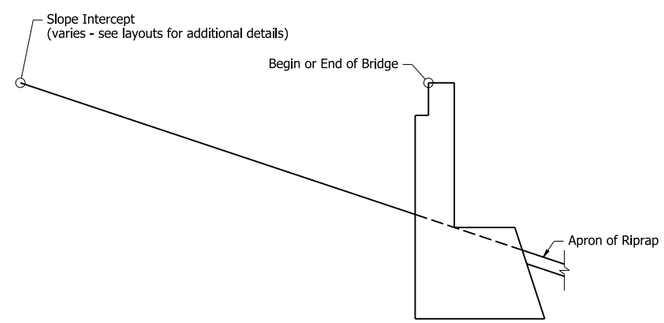
SECTION X-X



THREE DIMENSIONAL VIEW OF CONCRETE RIPRAP



PLAN
Bridge A7693 & B7693



SECTION Y-Y

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19996
BRENT T. JONES
5/4/26
BRIDGE ENGINEER

SHEET 1 OF 1
SUPPLEMENTAL DETAILS OF CONCRETE RIPRAP
CLEAR CREEK RD. - I-40 (PHASE 1) (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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BRIDGE NO. 07691, A7693, & B7693 DRAWING NO. 68601

PRINT DATE: 4/11/2026

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	491	742
		CROSS SECTION SHEETS				

CROSS SECTION INDEX OF SHEETS

SHEET NO.	ALIGNMENT
492 - 586	I-49
587 - 602	I-40
603 - 608	CC RAMP 3
609 - 614	RAMP I40EB-I49NB
615 - 620	RAMP I40WB-I49NB
621 - 626	RAMP I40WB-I49SB
627 - 634	RAMP I49NB-I40EB
635 - 656	RAMP I49NB-I40WB
657 - 670	RAMP I49SB-I40EB
671 - 679	RAMP I49SB-I40WB
680 - 689	WATERFRONT
690 - 696	HENRY SR
697 704	HWY 162 HENRY
705 - 713	COLLUM FR
714 - 727	DRIVEWAY 7
728 - 733	OLD WIRE RD
734 - 737	DRIVEWAY 8
738 - 740	DRIVEWAY 9
741 - 742	DRIVEWAY 10

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	492	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 3209 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
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STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 7887 CY
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STG. 4 FILL VOLUME 0 CY
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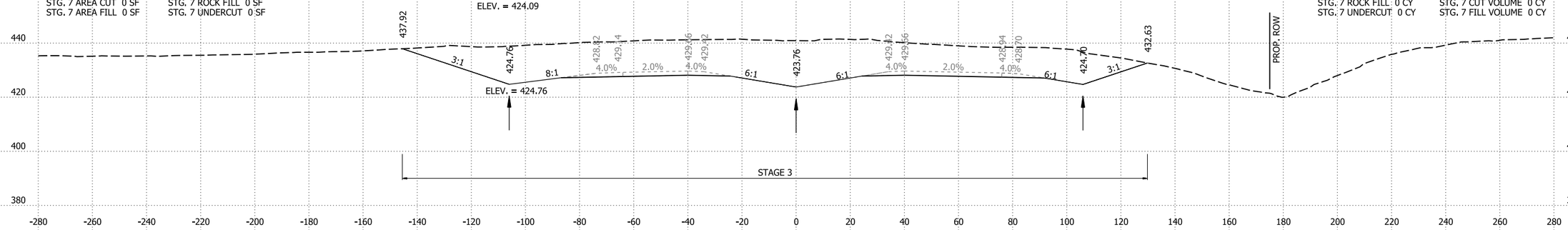
STG. 7 FILL VOLUME 0 CY



595+00.00

STA. 595+00.00 BEGIN JOB 040904

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STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
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STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

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STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
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STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 1659 CY
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STG. 4 CUT VOLUME 0 CY
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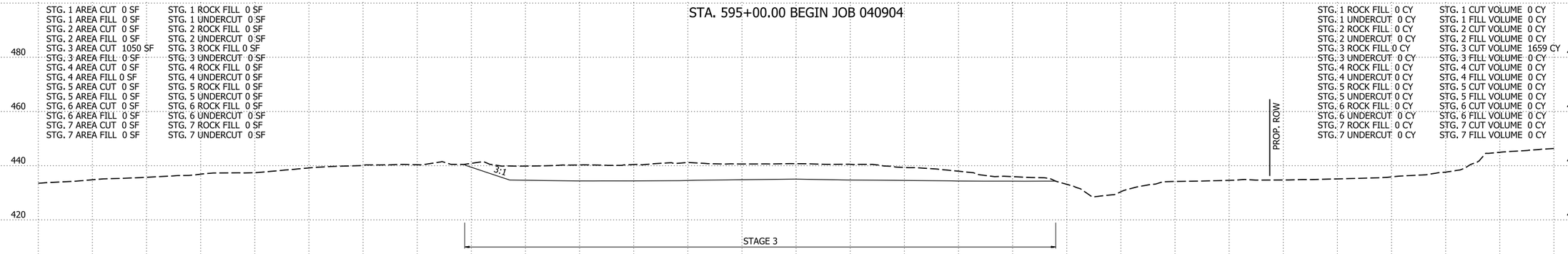

594+00.00

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STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
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STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
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STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

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STG. 3 ROCK FILL 0 CY
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STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
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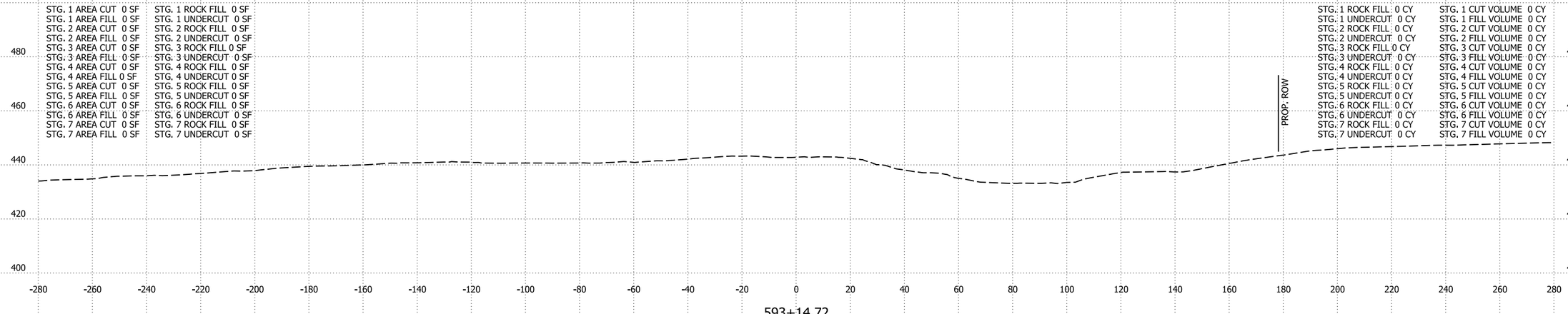

593+14.72

I-49 STA. 593+14.72 TO STA. 595+00

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	493	742

CROSS SECTIONS

STG. 1 AREA CUT 0 SF
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STG. 7 AREA FILL 0 SF

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STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
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STG. 3 UNDERCUT 0 SF
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STG. 5 UNDERCUT 0 SF
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STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

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STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
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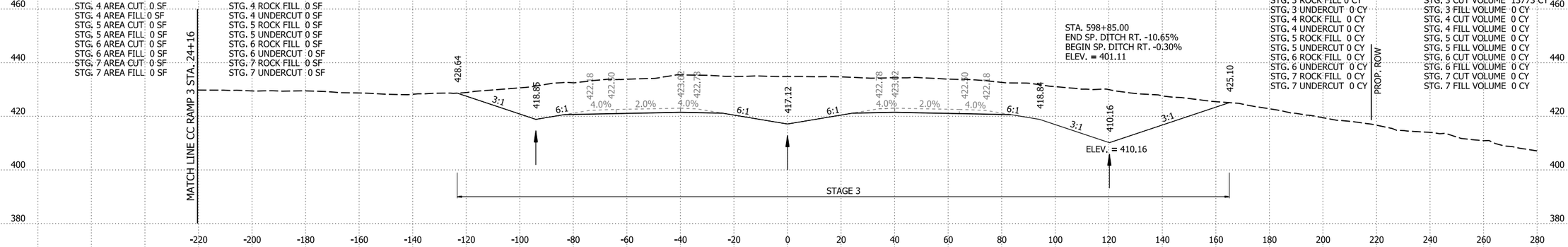

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STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

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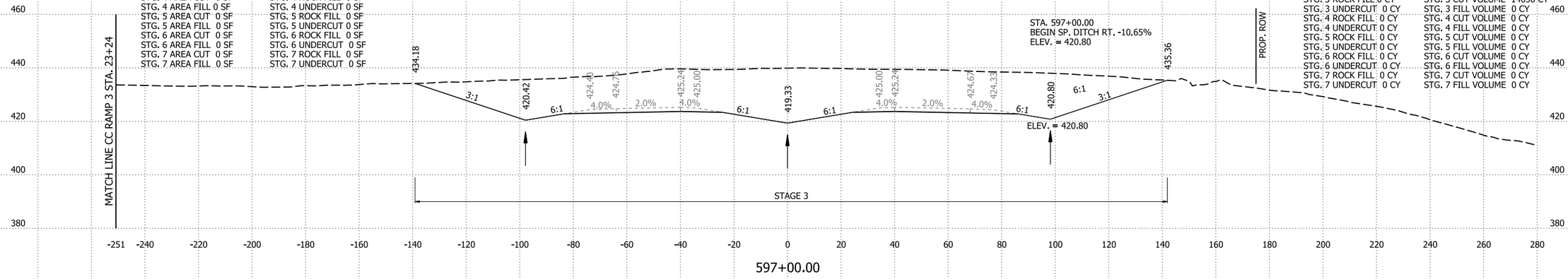

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STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
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STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
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STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
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STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
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STG. 7 UNDERCUT 0 CY

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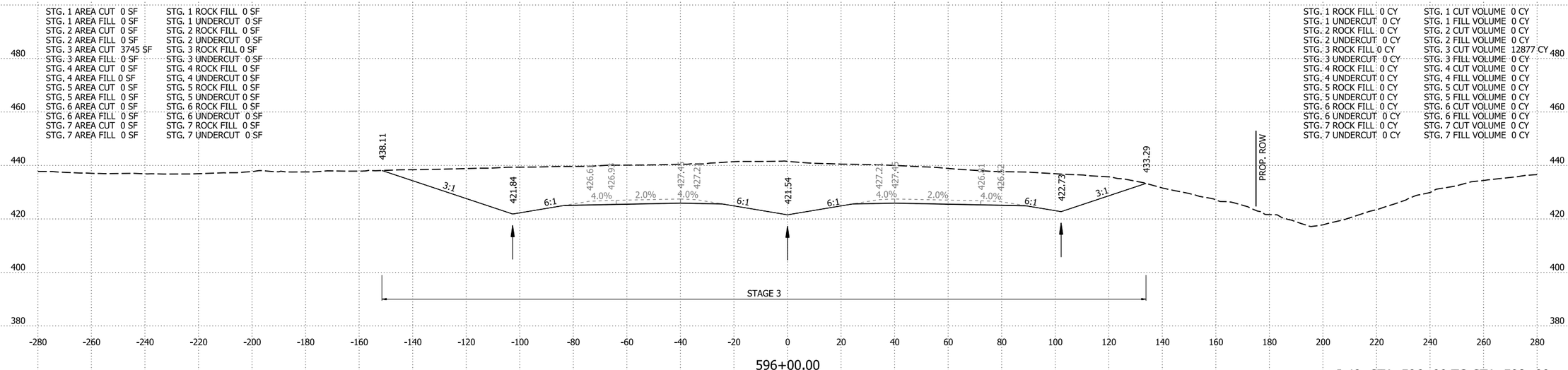

I-49 STA. 596+00 TO STA. 598+00

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	494	742

CROSS SECTIONS

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STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 901 SF
STG. 3 AREA FILL 1909 SF
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STG. 4 AREA FILL 0 SF
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STG. 5 AREA FILL 0 SF
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STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

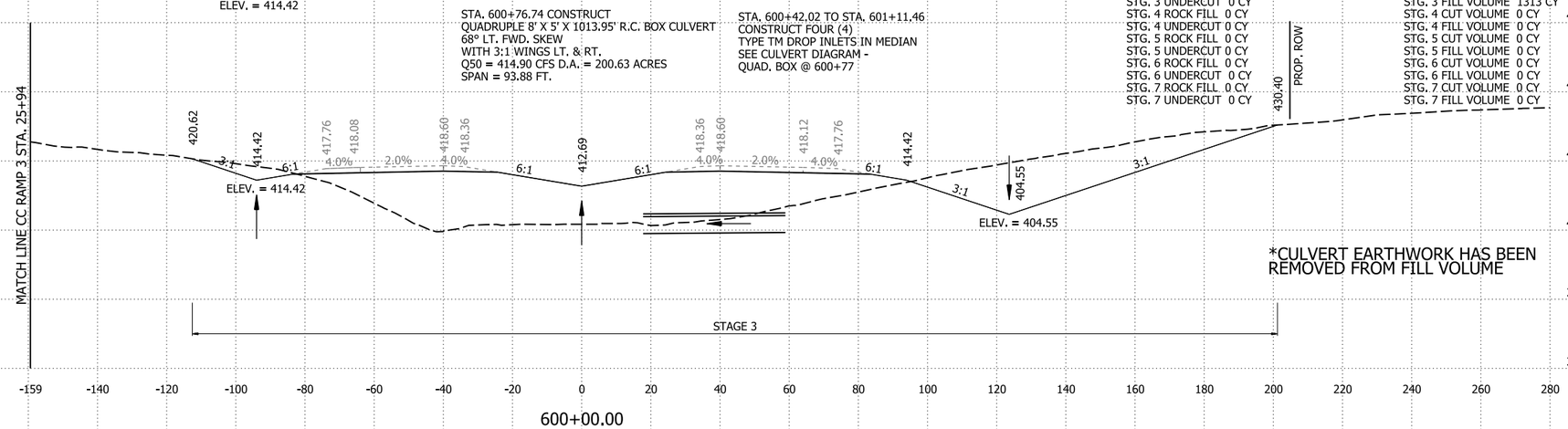
STA. 600+00.00
BEGIN SP. DITCH LT. -8.32%
ELEV. = 414.42

STA. 600+76.74 CONSTRUCT
QUADRUPLE 8' X 5' X 1013.95' R.C. BOX CULVERT
68° LT. FWD. SKEW
WITH 3:1 WINGS LT. & RT.
Q50 = 414.90 CFS D.A. = 200.63 ACRES
SPAN = 93.88 FT.

STA. 600+42.02 TO STA. 601+11.46
CONSTRUCT FOUR (4)
TYPE TM DROP INLETS IN MEDIAN
SEE CULVERT DIAGRAM -
QUAD. BOX @ 600+77

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 1517 CY
STG. 3 FILL VOLUME 1313 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



*CULVERT EARTHWORK HAS BEEN REMOVED FROM FILL VOLUME

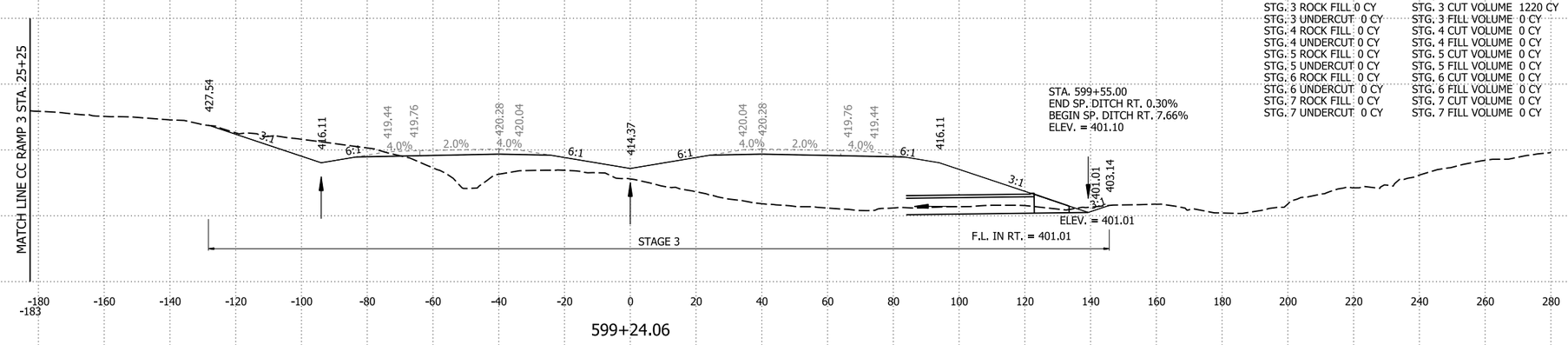
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 178 SF
STG. 3 AREA FILL 1843 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 182 CY
STG. 3 CUT VOLUME 1220 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STA. 599+55.00
END SP. DITCH RT. 0.30%
BEGIN SP. DITCH RT. 7.66%
ELEV. = 401.10



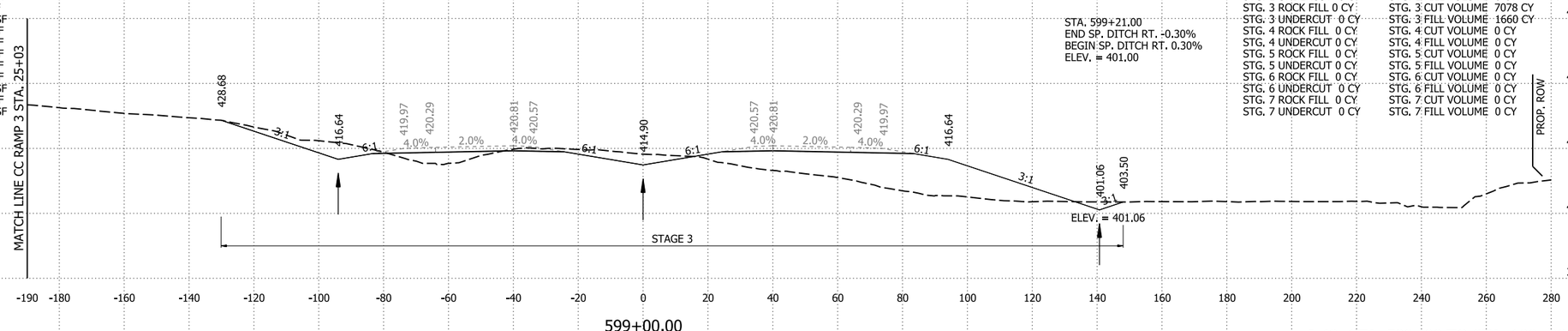
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 230 SF
STG. 3 AREA FILL 896 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 7078 CY
STG. 3 FILL VOLUME 1660 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STA. 599+21.00
END SP. DITCH RT. -0.30%
BEGIN SP. DITCH RT. 0.30%
ELEV. = 401.00



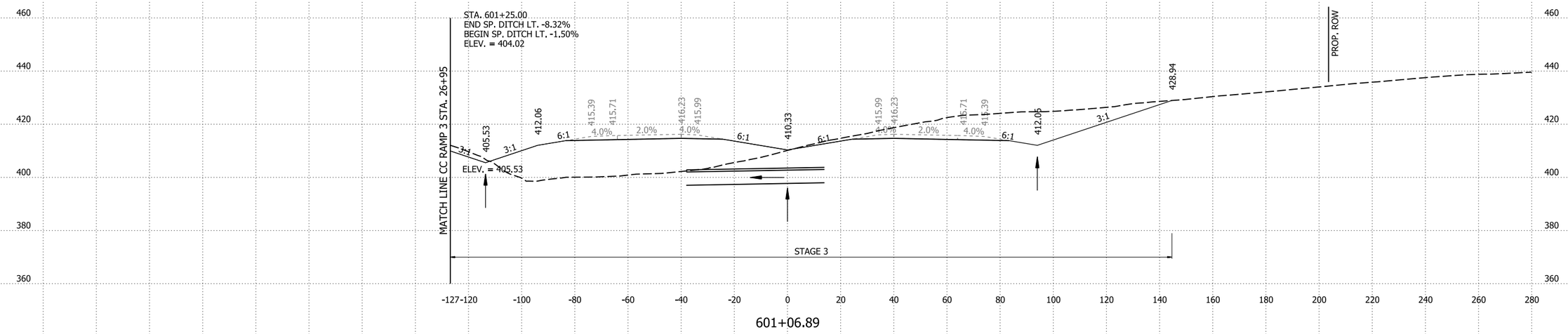
I-49 STA. 599+00 TO STA. 600+00

4/30/2026 8:09:51 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	495	742
		CROSS SECTIONS				

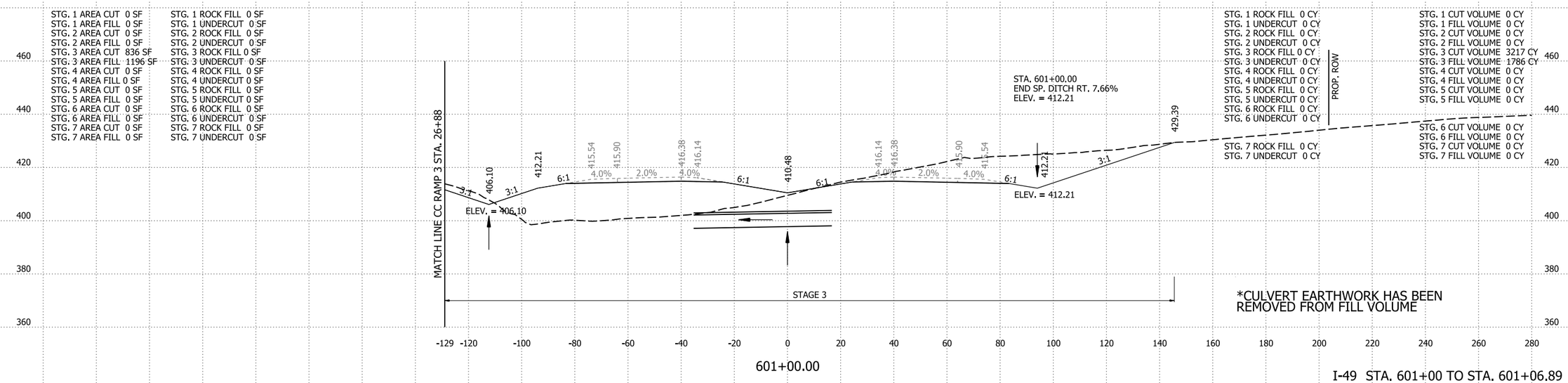
STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 857 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 1169 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 216 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 302 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 836 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 1196 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 3217 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 1786 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



*CULVERT EARTHWORK HAS BEEN REMOVED FROM FILL VOLUME

I-49 STA. 601+00 TO STA. 601+06.89

4/30/2026 8:09:51 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	496	742
		CROSS SECTIONS				

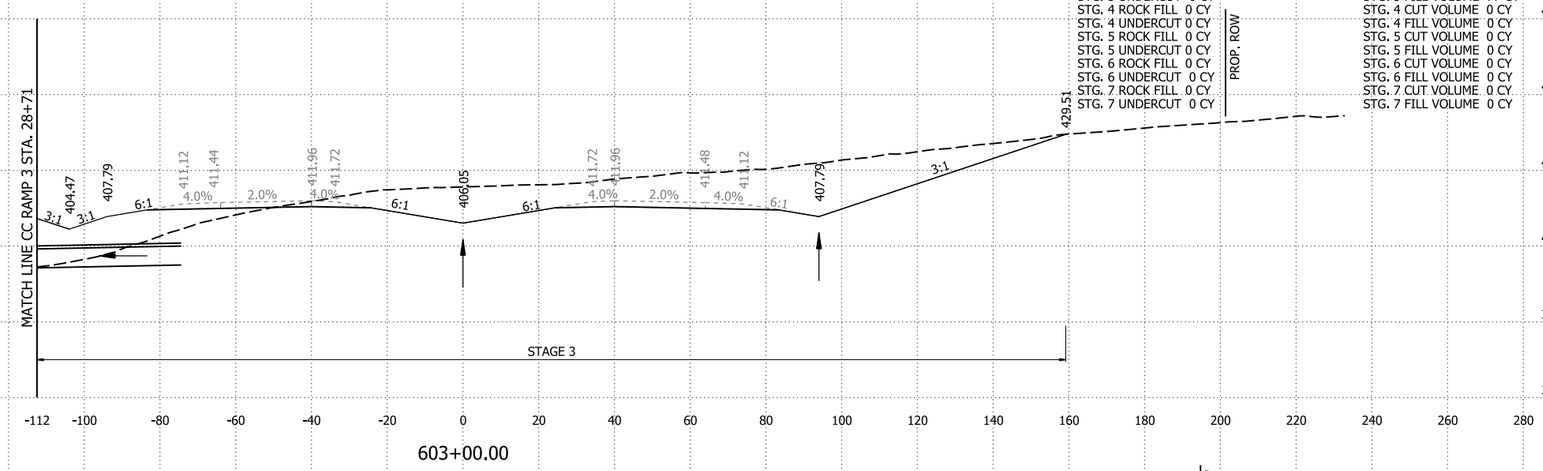
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 1511 SF
STG. 3 AREA FILL 399 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

PROP. ROW

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 293 CY
STG. 3 FILL VOLUME 77 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 1498 SF
STG. 3 AREA FILL 394 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

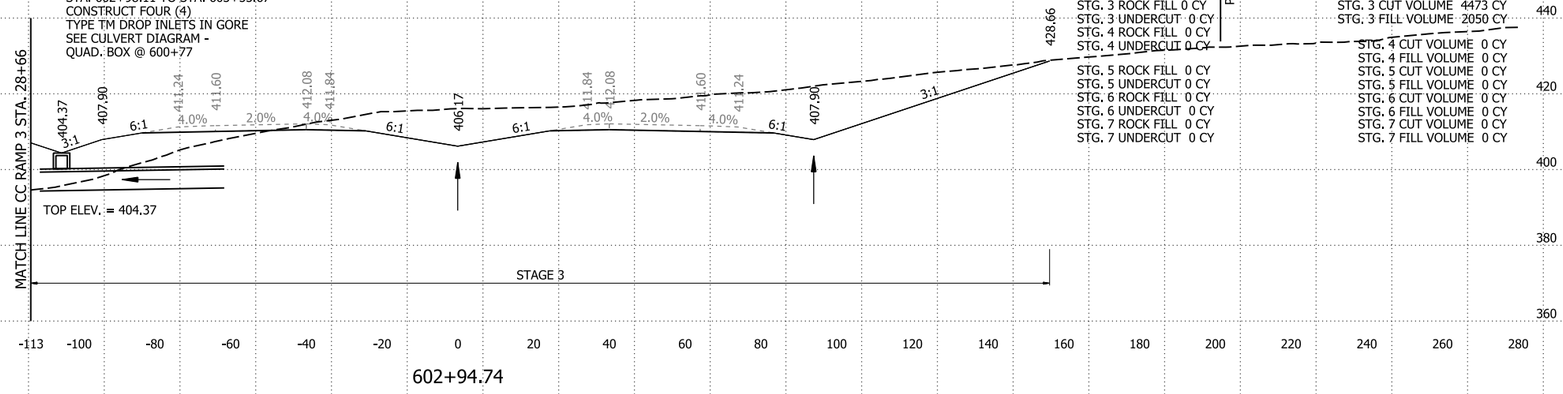
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 602+98.11 TO STA. 603+55.67
CONSTRUCT FOUR (4)
TYPE TM DROP INLETS IN GORE
SEE CULVERT DIAGRAM -
QUAD. BOX @ 600+77

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

PROP. ROW

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 4473 CY
STG. 3 FILL VOLUME 2050 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 1051 SF
STG. 3 AREA FILL 774 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

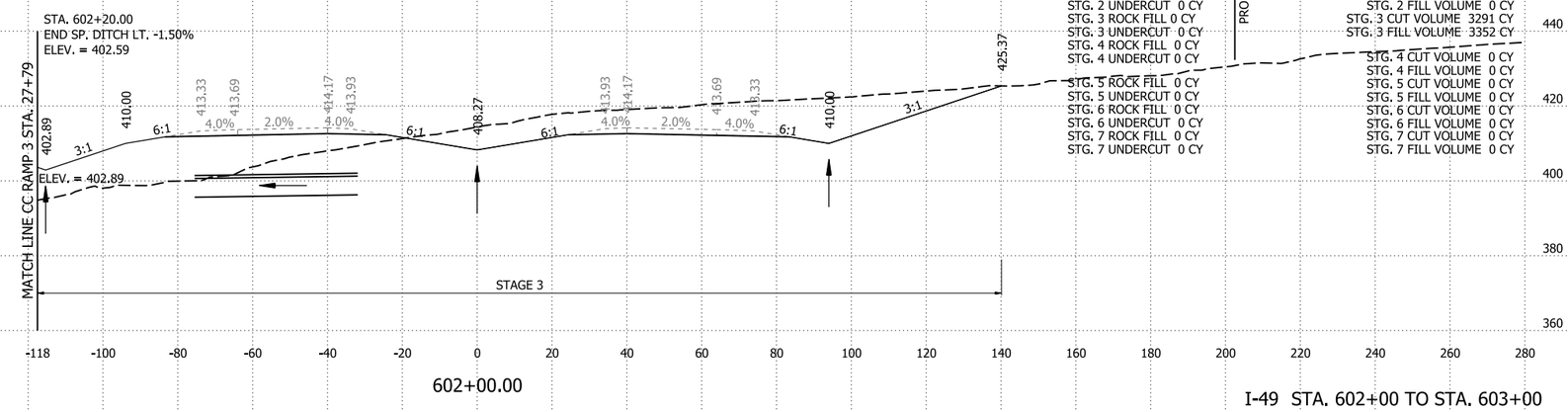
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 602+20.00
END SP. DITCH LT. -1.50%
ELEV. = 402.59

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

PROP. ROW

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 3291 CY
STG. 3 FILL VOLUME 3352 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 602+00 TO STA. 603+00

4/30/2026 8:09:52 AM
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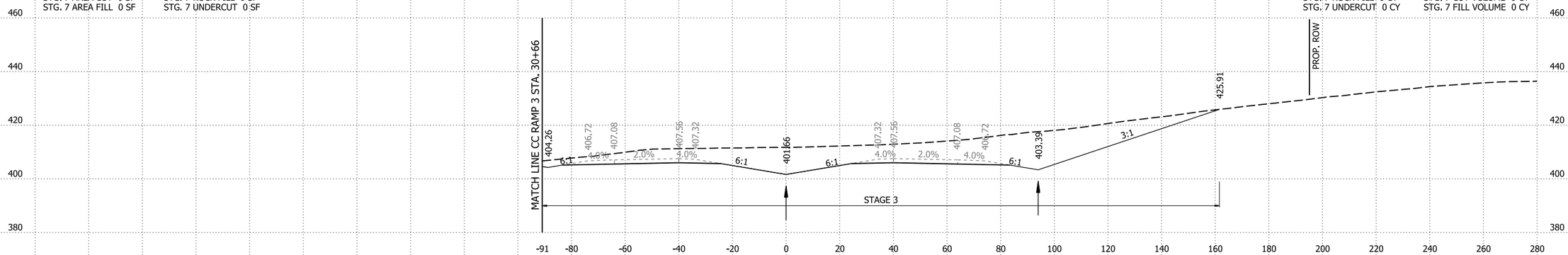
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	497	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 1773 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 6395 CY
STG. 3 FILL VOLUME 293 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

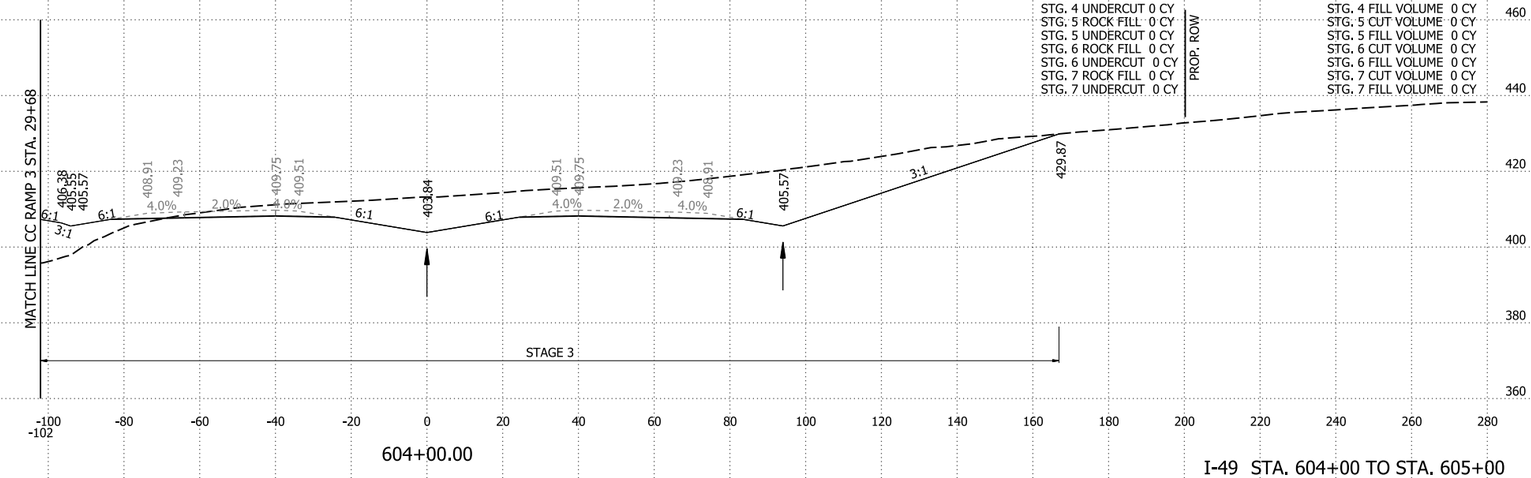


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 1680 SF
STG. 3 AREA FILL 158 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 5910 CY
STG. 3 FILL VOLUME 1031 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 604+00 TO STA. 605+00

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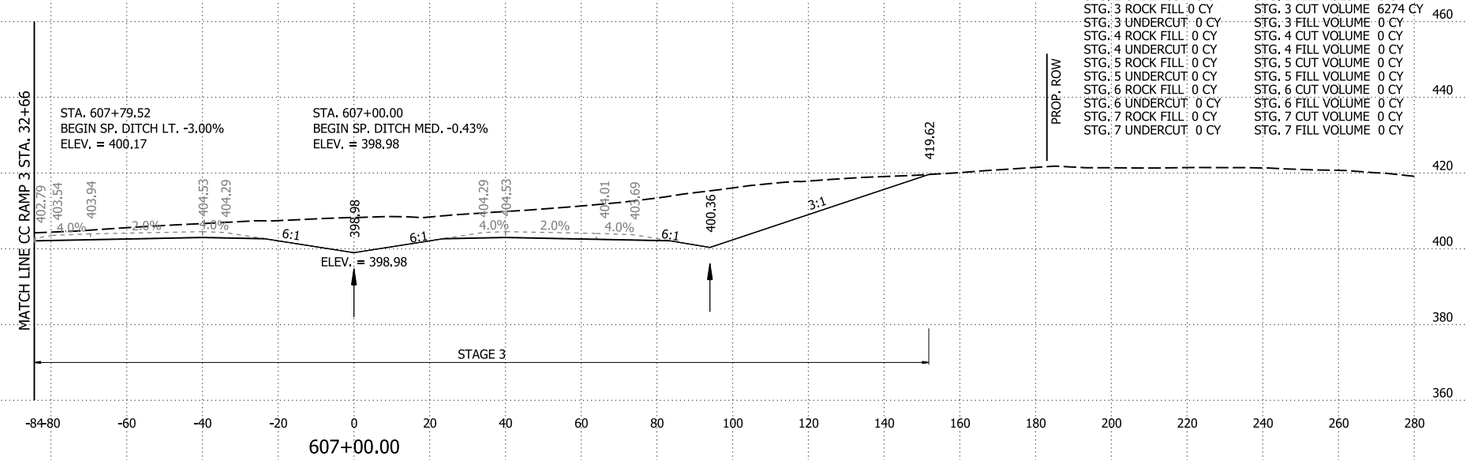
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	498	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 1640 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 6274 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

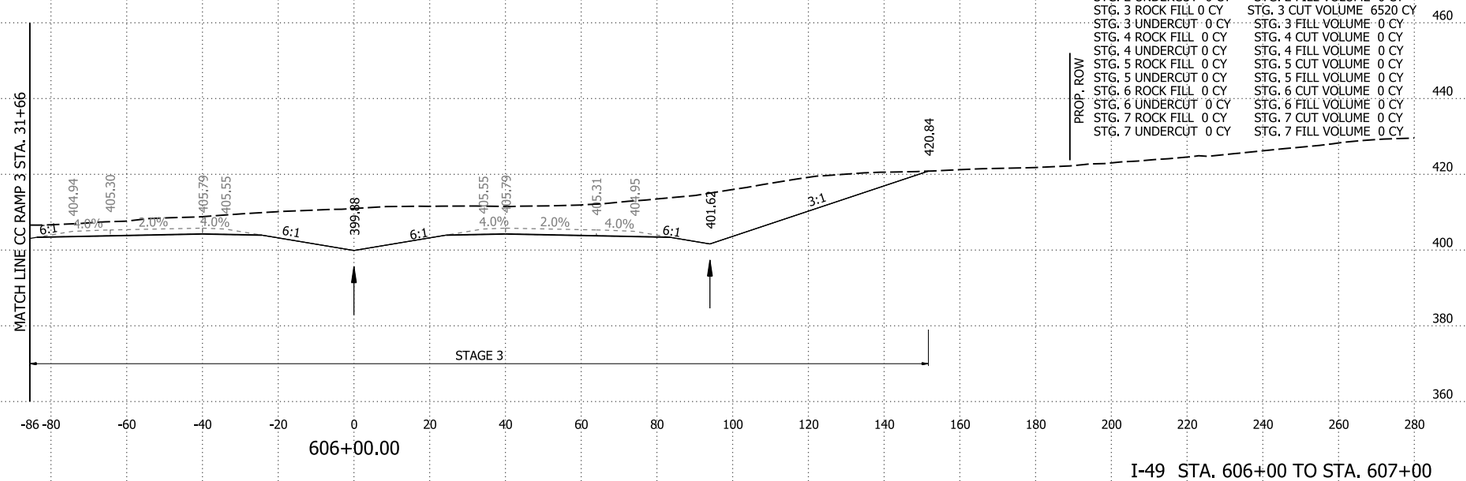


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 1748 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 6520 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 606+00 TO STA. 607+00

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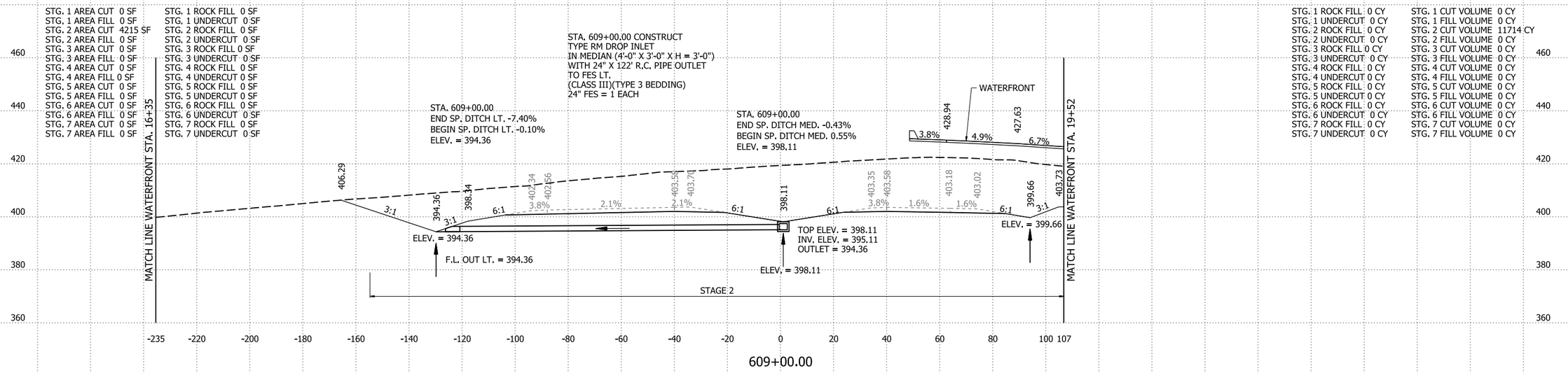
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	499	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 4215 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 11714 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

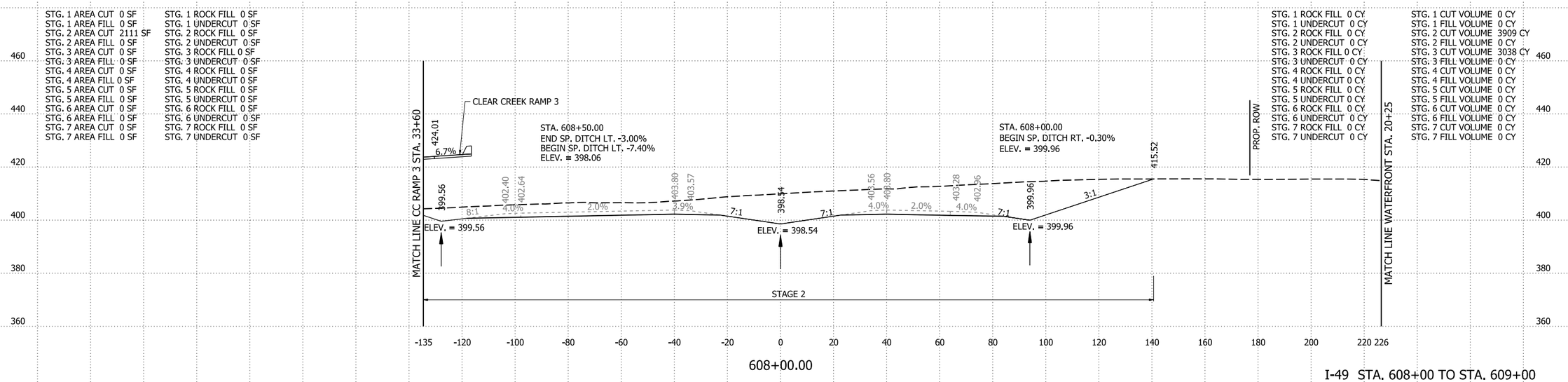


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 2111 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 3909 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 3038 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 608+00 TO STA. 609+00

4/30/2026 8:09:53 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	500	742

CROSS SECTIONS

STG. 1 AREA CUT 2225 SF
STG. 1 AREA FILL 170 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 611+98.62 CONSTRUCT
TYPE N3 DROP INLET LT. I-49 S.B.
H = 3'-0"
WITH 12" X 32' SIDE DRAIN
TO TYPE A SPILLWAY LT.

STA. 612+56.93
END SP. DITCH RT. -6.09%
BEGIN SP. DITCH RT. -0.30%
ELEV. = 390.95

STA. 611+98.62
TOP ELEV. = 403.96
INV. ELEV. = 400.96
OUTLET = 392.69

F.L. OUT LT. = 392.65

ELEV. = 392.65

ELEV. = 394.42

STAGE 1

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 4120 CY
STG. 1 FILL VOLUME 316 CY
STG. 2 CUT VOLUME 9819 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

612+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 5302 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 611+50.00
END SP. DITCH LT. -0.10%
BEGIN SP. DITCH LT. -2.91%
ELEV. = 394.11

STA. 611+00.00
END SP. DITCH MED. 0.55%
ELEV. = 399.22

STA. 611+25.00
END SP. DITCH RT. -0.30%
BEGIN SP. DITCH RT. -6.09%
ELEV. = 398.99

ELEV. = 394.16

ELEV. = 399.22

ELEV. = 399.06

STAGE 2

MATCH LINE WATERFRONT STA. 21+23

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 21372 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

611+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 6239 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

ELEV. = 394.26

ELEV. = 398.67

ELEV. = 399.36

STAGE 2

MATCH LINE WATERFRONT STA. 20+20

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 19359 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

610+00.00

I-49 STA. 610+00 TO STA. 612+00

4/30/2026 8:09:54 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	501	742

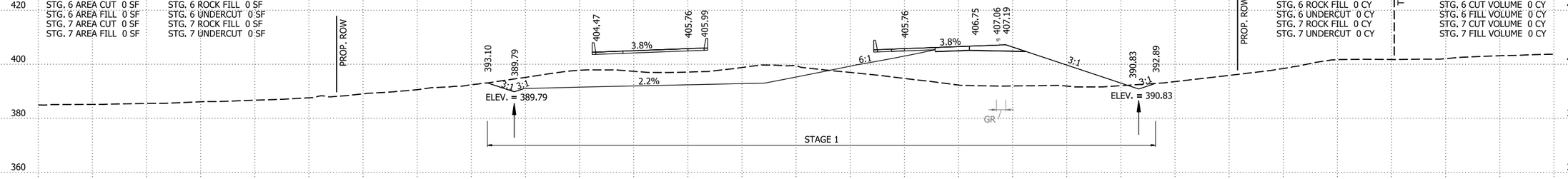
CROSS SECTIONS

STG. 1 AREA CUT 618 SF
STG. 1 AREA FILL 901 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 860 CY
STG. 1 FILL VOLUME 1049 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



613+00.00

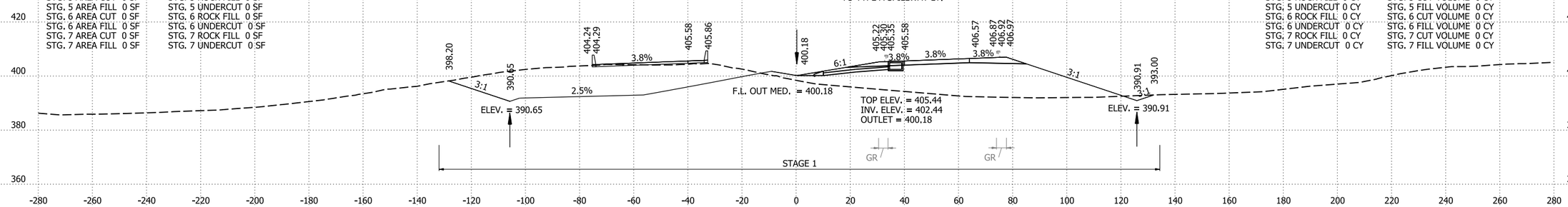
STG. 1 AREA CUT 979 SF
STG. 1 AREA FILL 1047 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 612+70.90 CONSTRUCT
TYPE N3 DROP INLET LT. I-49 N.B.
H = 3'-0"
WITH 12" X 32' SIDE DRAIN
TO TYPE A SPILLWAY LT.

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 428 CY
STG. 1 FILL VOLUME 396 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



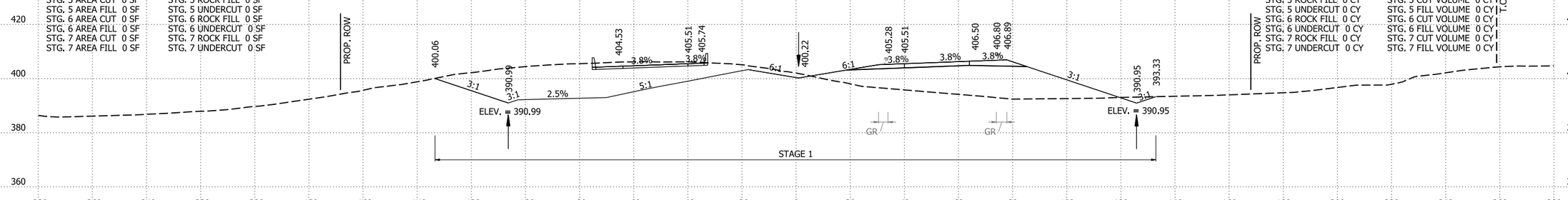
612+70.90

STG. 1 AREA CUT 1088 SF
STG. 1 AREA FILL 864 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 3665 CY
STG. 1 FILL VOLUME 1144 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



612+59.74
BEGIN BRIDGE A7692

I-49 STA. 612+59.74 TO STA. 613+00

4/30/2026 8:09:54 AM
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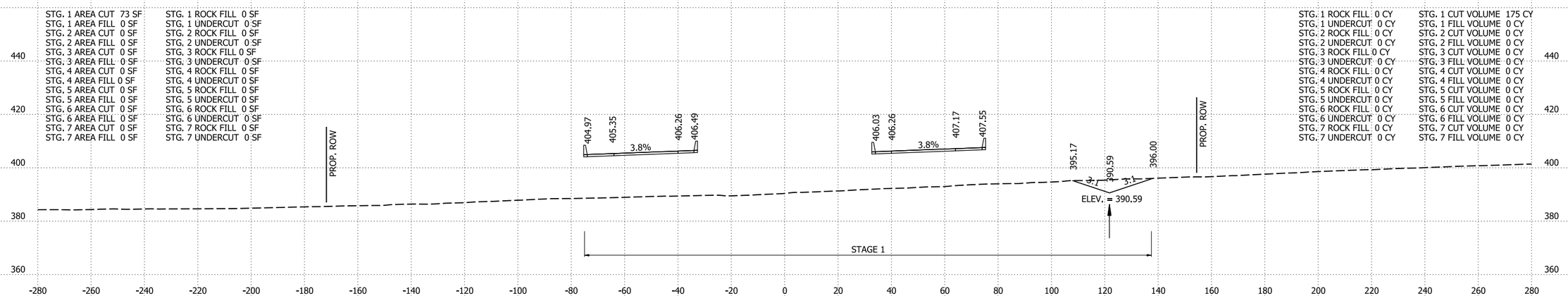
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	502	742
		CROSS SECTIONS				

STG. 1 AREA CUT 73 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 175 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



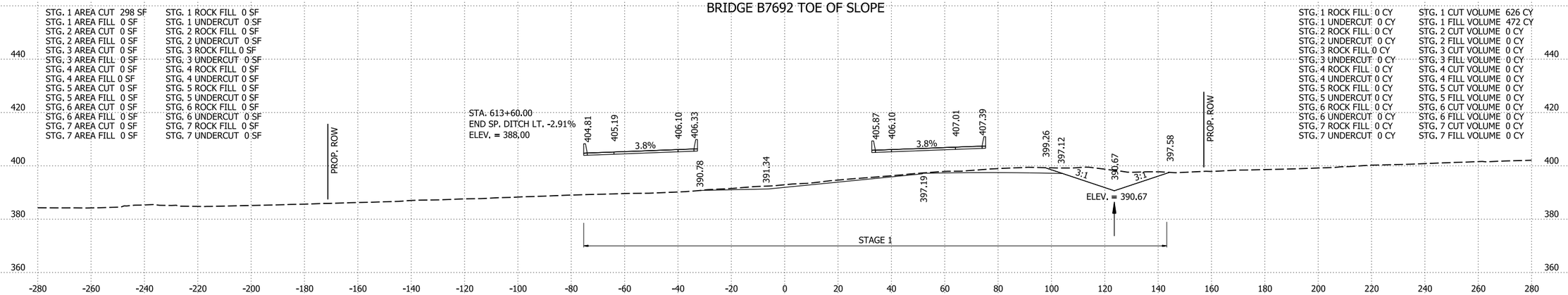
613+78.73
BRIDGE B7692 TOE OF SLOPE

STG. 1 AREA CUT 298 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 626 CY
STG. 1 FILL VOLUME 472 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



613+53.22
BRIDGE A7692 TOE OF SLOPE

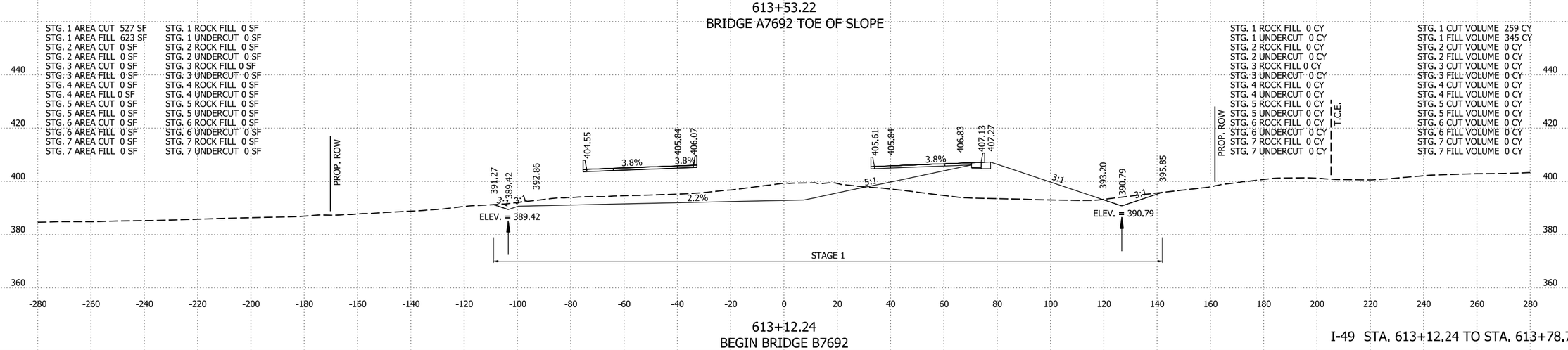
STG. 1 AREA CUT 527 SF
STG. 1 AREA FILL 623 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

T.C.E.

STG. 1 CUT VOLUME 259 CY
STG. 1 FILL VOLUME 345 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



613+12.24
BEGIN BRIDGE B7692

I-49 STA. 613+12.24 TO STA. 613+78.73

4/30/2026 8:09:55 AM
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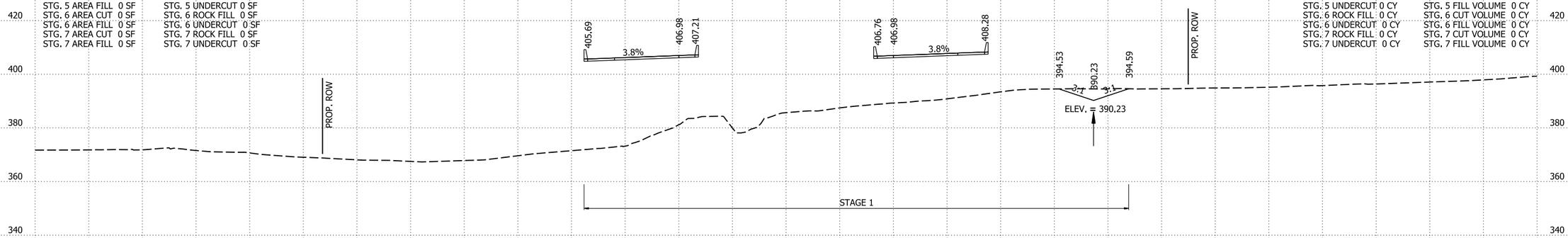
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	503	742
		CROSS SECTIONS				

STG. 1 AREA CUT 57 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 166 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



615+00.00

STG. 1 AREA CUT 33 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 42 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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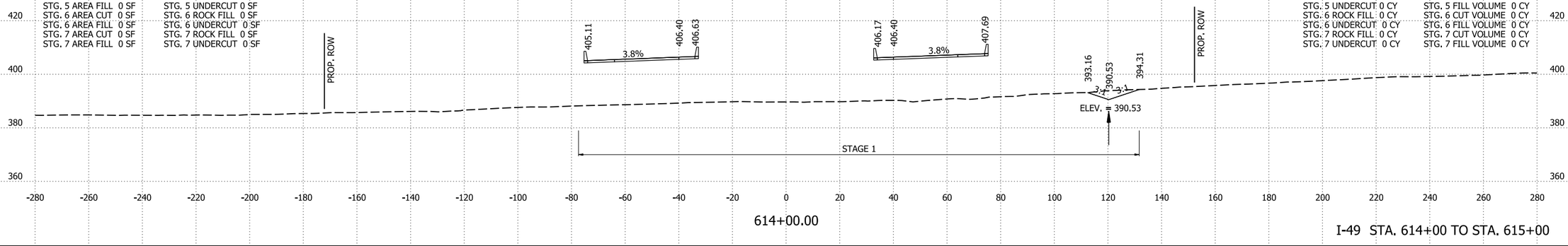
STG. 7 FILL VOLUME 0 CY



614+00.00

I-49 STA. 614+00 TO STA. 615+00

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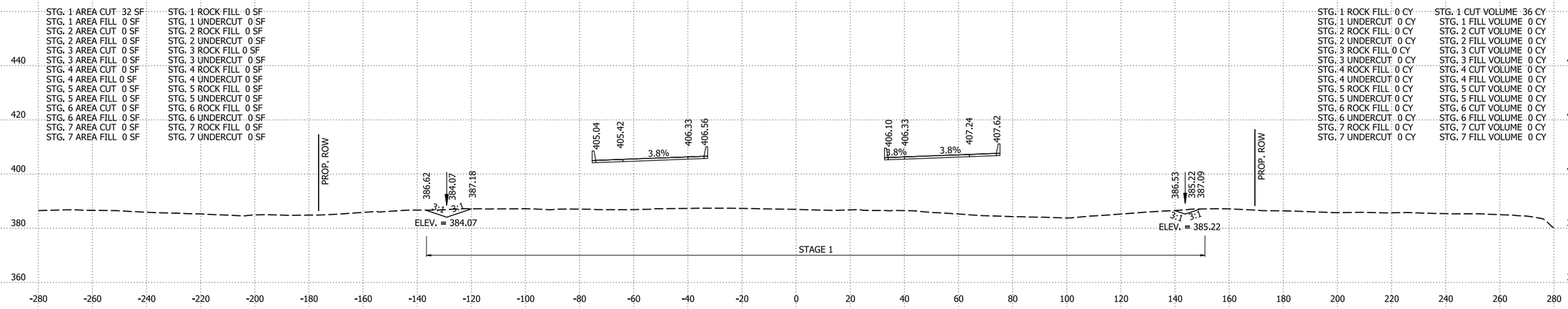
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	504	742
		CROSS SECTIONS				

STG. 1 AREA CUT 32 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 36 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



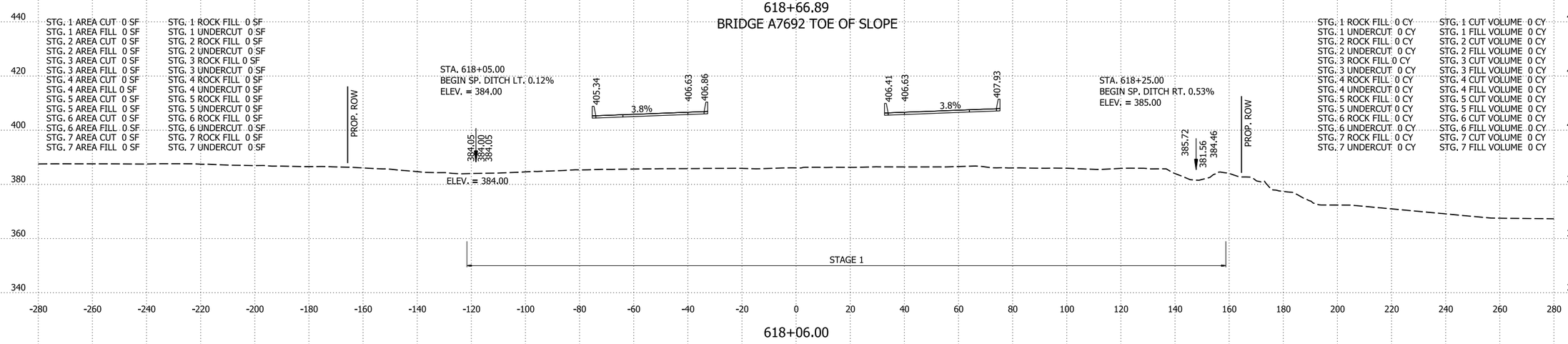
618+66.89
BRIDGE A7692 TOE OF SLOPE

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



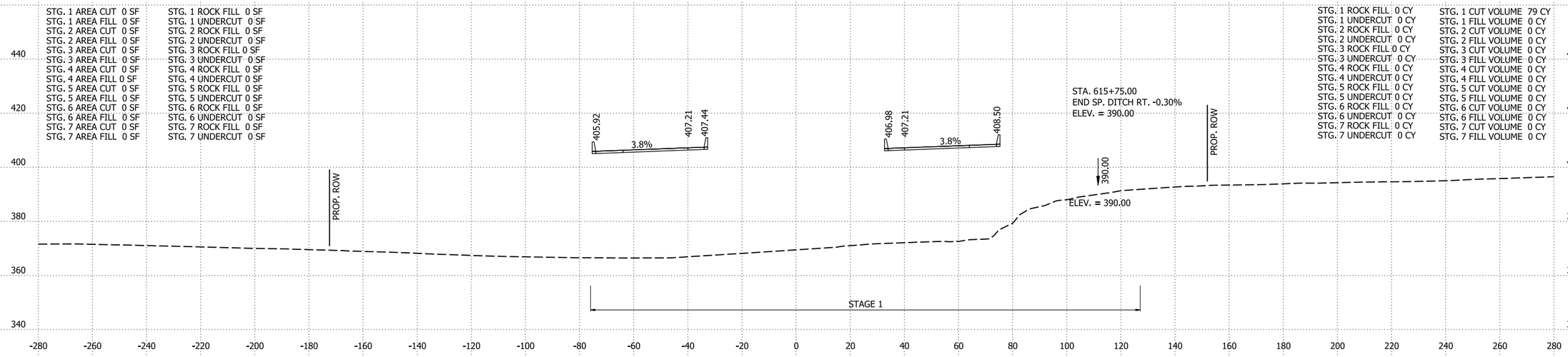
618+06.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 79 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



615+75.00

I-49 STA. 615+75 TO STA. 618+66.89

4/30/2026 8:09:56 AM
R040904_22_CX.dgn

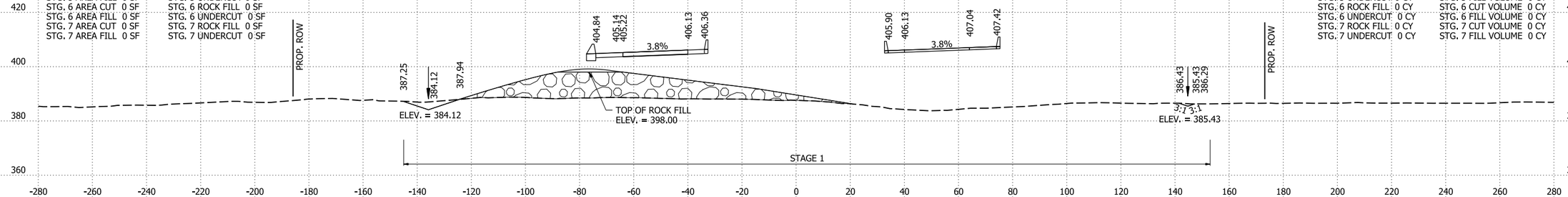
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	505	742
		CROSS SECTIONS				

STG. 1 AREA CUT 32 SF
STG. 1 AREA FILL 17 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 802 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 177 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 8 CY
STG. 1 FILL VOLUME 2 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



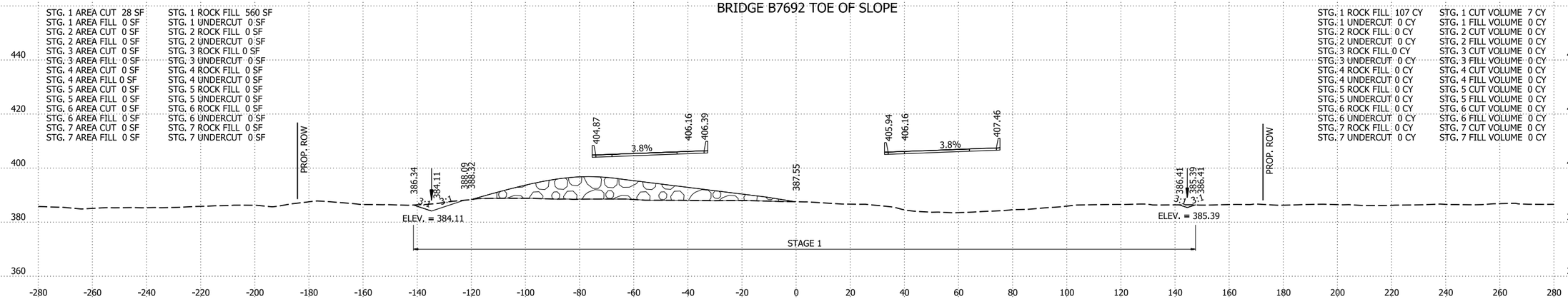
619+07.02
BRIDGE B7692 TOE OF SLOPE

STG. 1 AREA CUT 28 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 560 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 107 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 7 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



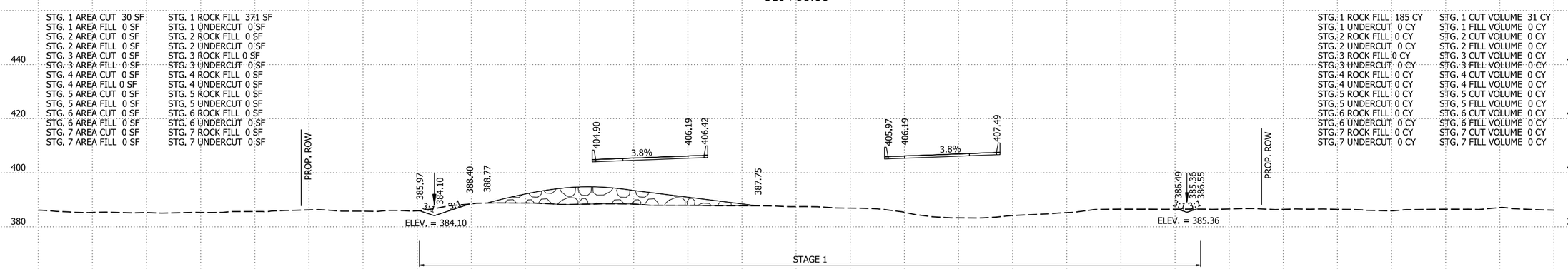
619+00.00

STG. 1 AREA CUT 30 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 371 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 185 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 31 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



618+93.79

I-49 STA. 618+93.79 TO STA. 619+07.02

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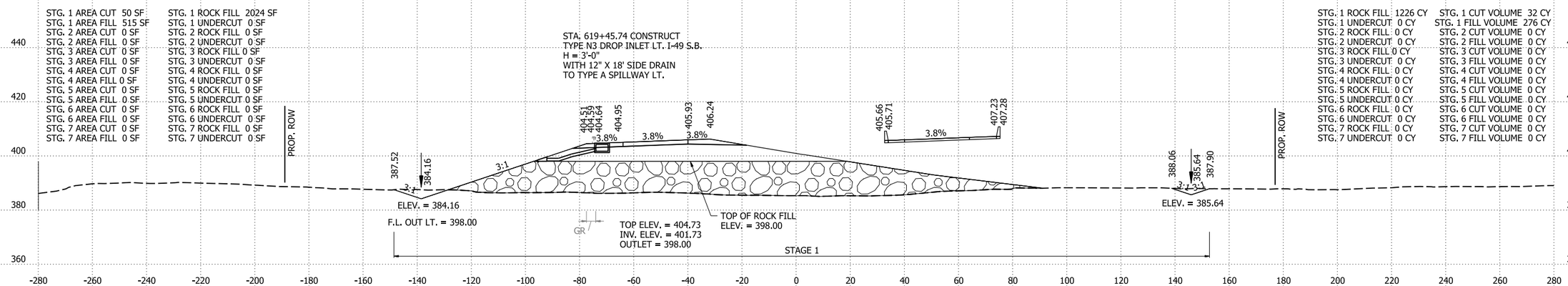
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	506	742
		CROSS SECTIONS				

STG. 1 AREA CUT 50 SF
STG. 1 AREA FILL 515 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 2024 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 1226 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 32 CY
STG. 1 FILL VOLUME 276 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



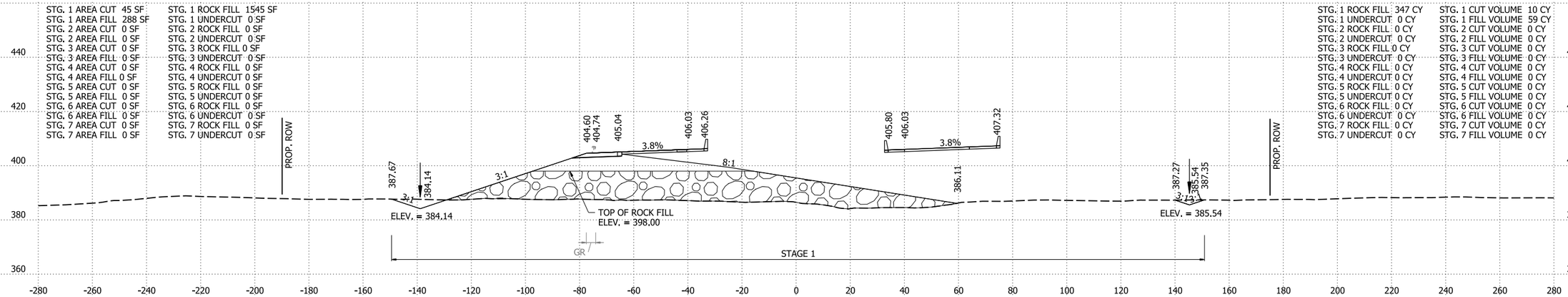
619+45.74

STG. 1 AREA CUT 45 SF
STG. 1 AREA FILL 288 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 1545 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 347 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 10 CY
STG. 1 FILL VOLUME 59 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



619+27.19

STG. 1 AREA CUT 40 SF
STG. 1 AREA FILL 198 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 1314 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 534 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 18 CY
STG. 1 FILL VOLUME 54 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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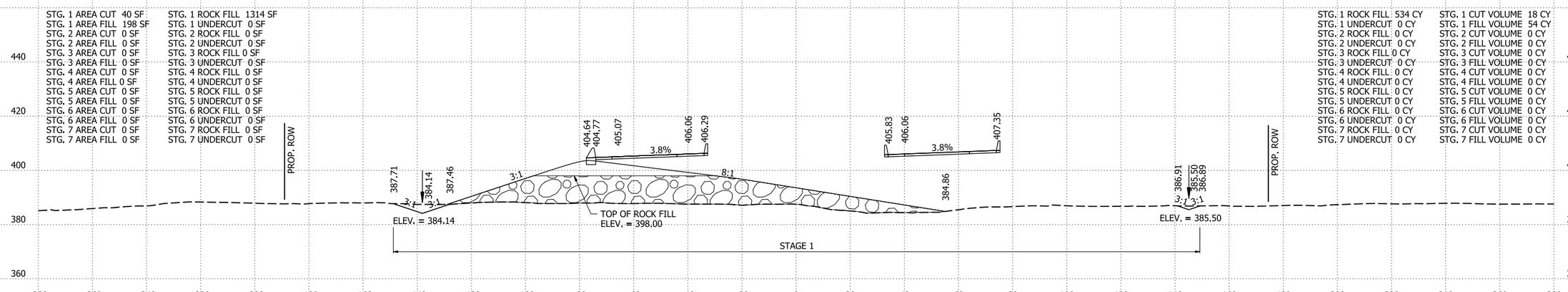

619+20.64
END BRIDGE A7692

I-49 STA. 619+27.19 TO STA. 619+60.92

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	507	742

CROSS SECTIONS

STG. 1 AREA CUT 174 SF
STG. 1 AREA FILL 971 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 2152 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 50 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 4 CY
STG. 1 FILL VOLUME 23 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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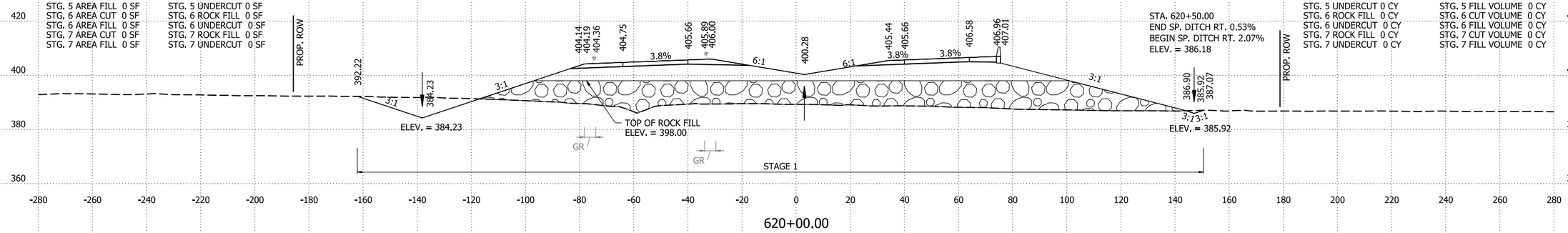
STG. 7 FILL VOLUME 0 CY



620+00.00

STG. 1 AREA CUT 173 SF
STG. 1 AREA FILL 972 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 2157 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 3137 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 167 CY
STG. 1 FILL VOLUME 1129 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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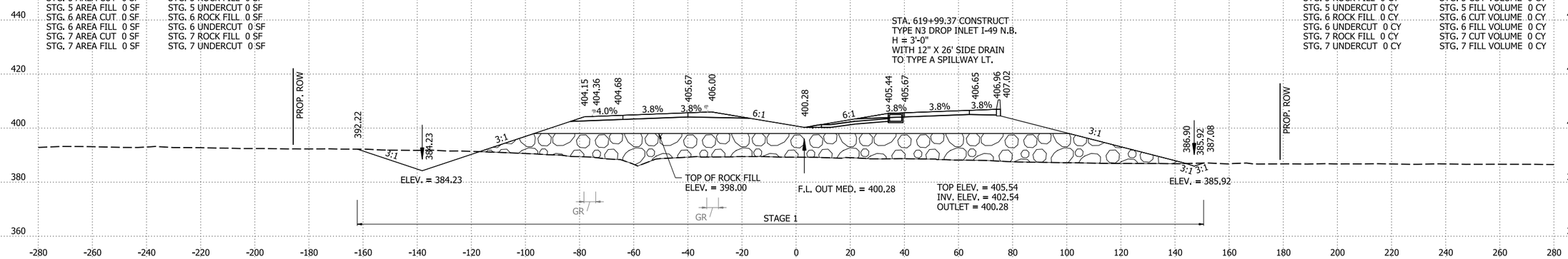
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



619+99.37

STG. 1 AREA CUT 61 SF
STG. 1 AREA FILL 614 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 2249 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 1201 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 31 CY
STG. 1 FILL VOLUME 318 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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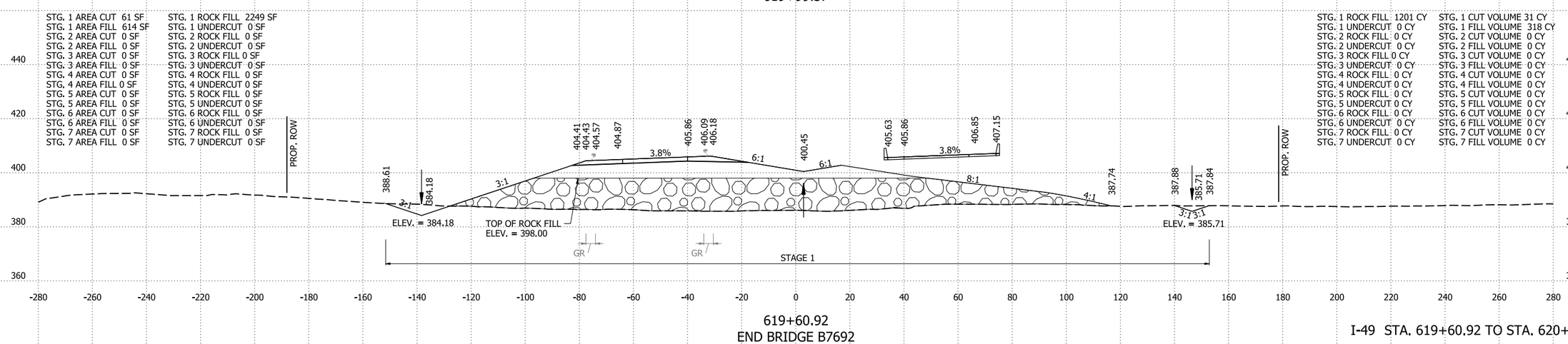
STG. 7 FILL VOLUME 0 CY



619+60.92
END BRIDGE B7692

I-49 STA. 619+60.92 TO STA. 620+00

4/30/2026 8:09:57 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	508	742
		CROSS SECTIONS				

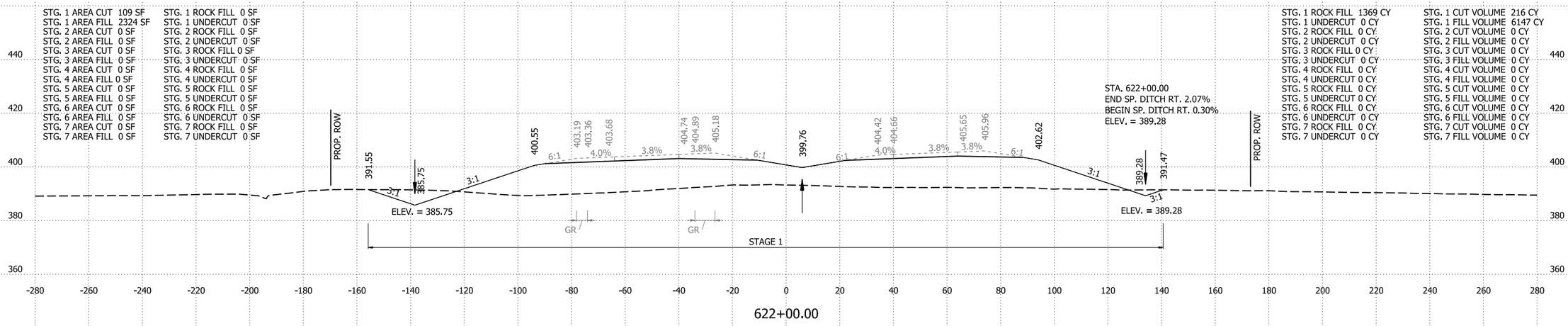
STG. 1 AREA CUT 109 SF
STG. 1 AREA FILL 2324 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 622+00.00
END SP. DITCH RT. 2.07%
BEGIN SP. DITCH RT. 0.30%
ELEV. = 389.28

STG. 1 ROCK FILL 1369 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 216 CY
STG. 1 FILL VOLUME 6147 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



622+00.00

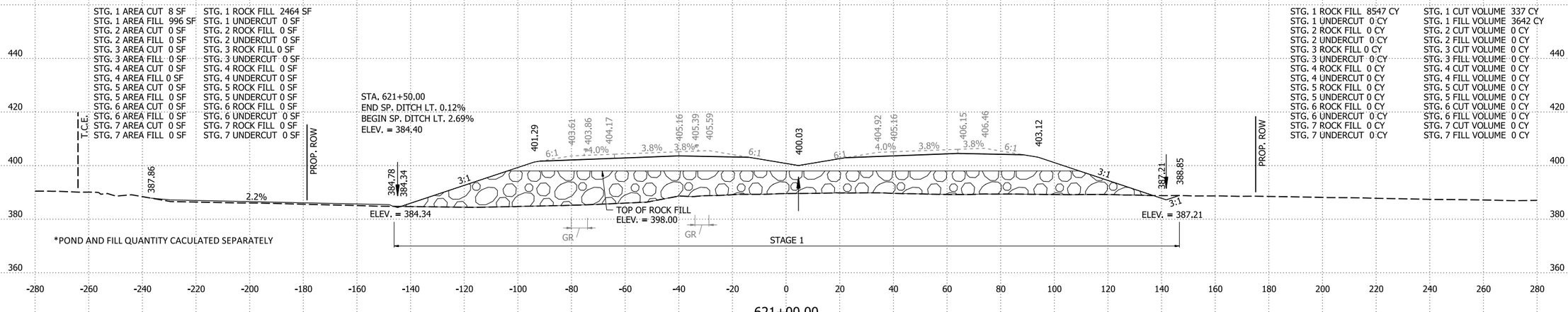
STG. 1 AREA CUT 8 SF
STG. 1 AREA FILL 996 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 2464 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 621+50.00
END SP. DITCH LT. 0.12%
BEGIN SP. DITCH LT. 2.69%
ELEV. = 384.40

STG. 1 ROCK FILL 8547 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 337 CY
STG. 1 FILL VOLUME 3642 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



*POND AND FILL QUANTITY CACULATED SEPARATELY

621+00.00

I-49 STA. 621+00 TO STA. 622+00

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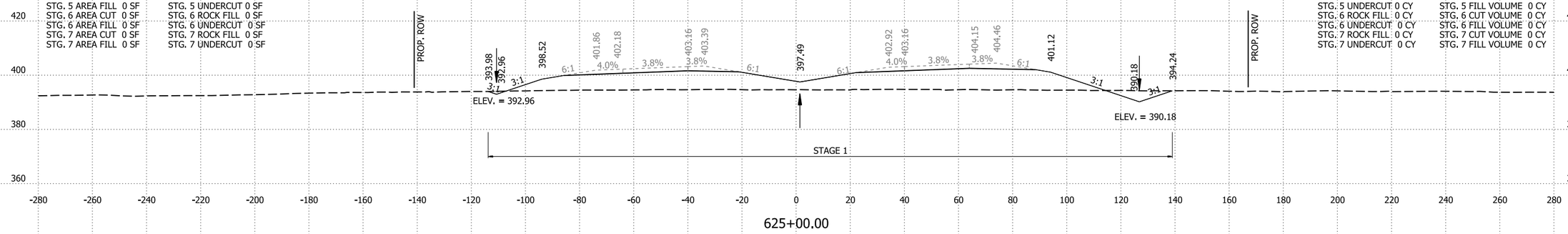
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	509	742
		CROSS SECTIONS				

STG. 1 AREA CUT 54 SF
STG. 1 AREA FILL 1269 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 209 CY
STG. 1 FILL VOLUME 5124 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



625+00.00

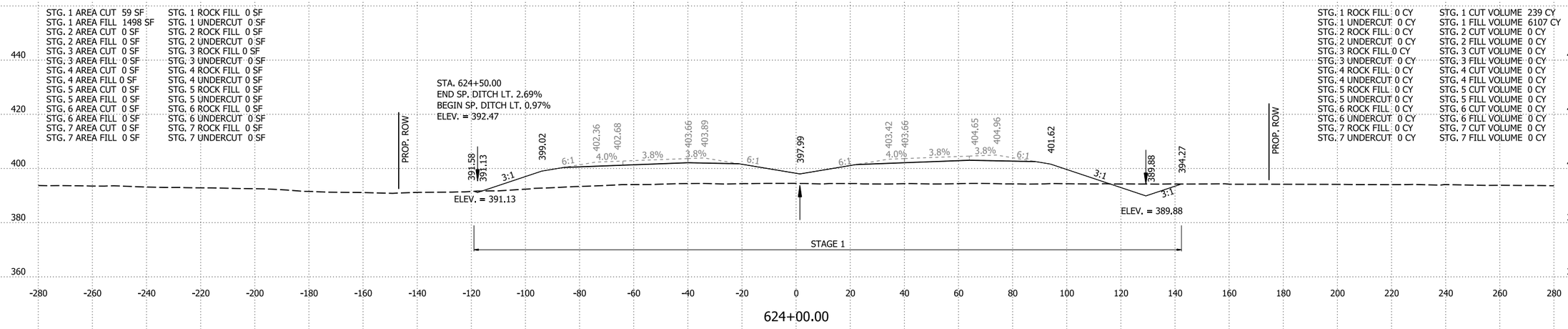
STG. 1 AREA CUT 59 SF
STG. 1 AREA FILL 1498 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 624+50.00
END SP. DITCH LT. 2.69%
BEGIN SP. DITCH LT. 0.97%
ELEV. = 392.47

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 239 CY
STG. 1 FILL VOLUME 6107 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



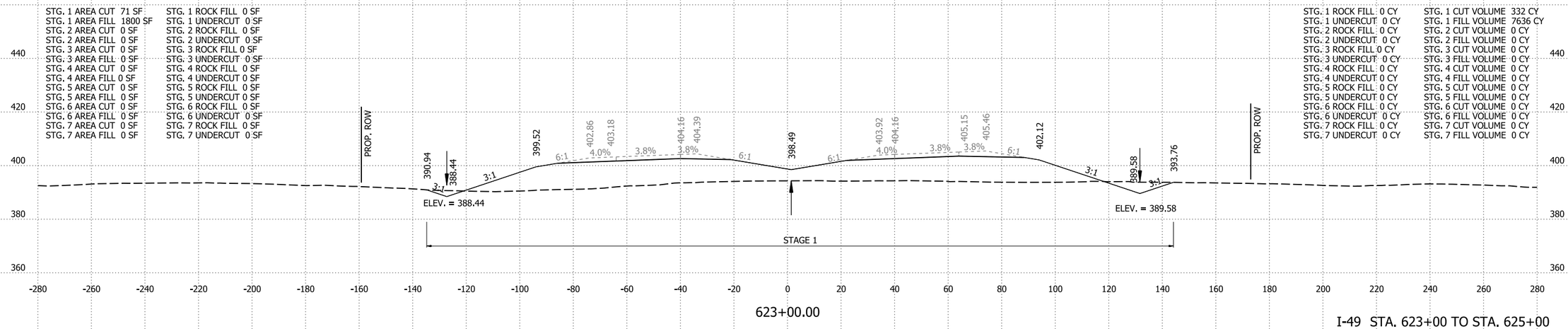
624+00.00

STG. 1 AREA CUT 71 SF
STG. 1 AREA FILL 1800 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 332 CY
STG. 1 FILL VOLUME 7636 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



623+00.00

I-49 STA. 623+00 TO STA. 625+00

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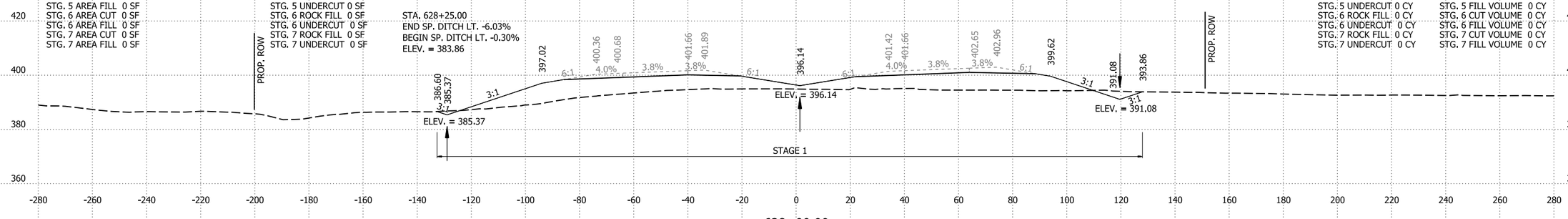
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	510	742
		CROSS SECTIONS				

STG. 1 AREA CUT 34 SF
STG. 1 AREA FILL 1139 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 197 CY
STG. 1 FILL VOLUME 3976 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



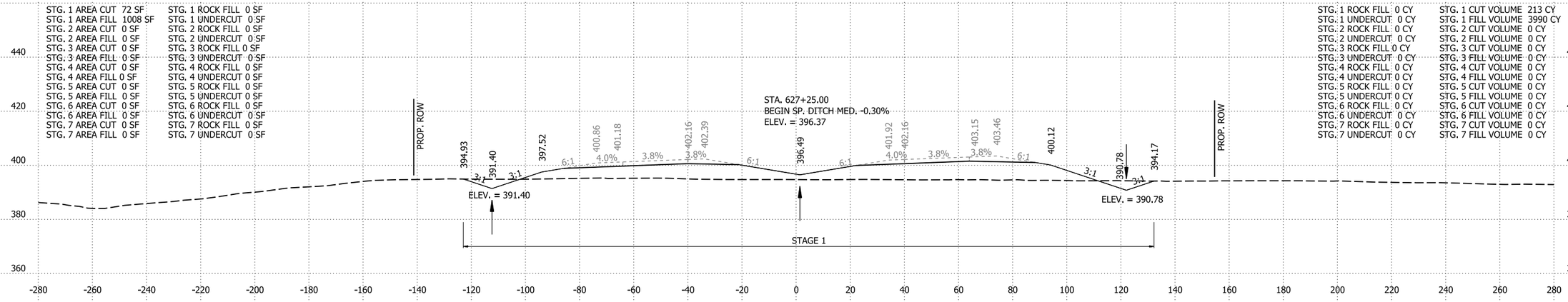
628+00.00

STG. 1 AREA CUT 72 SF
STG. 1 AREA FILL 1008 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 213 CY
STG. 1 FILL VOLUME 3990 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



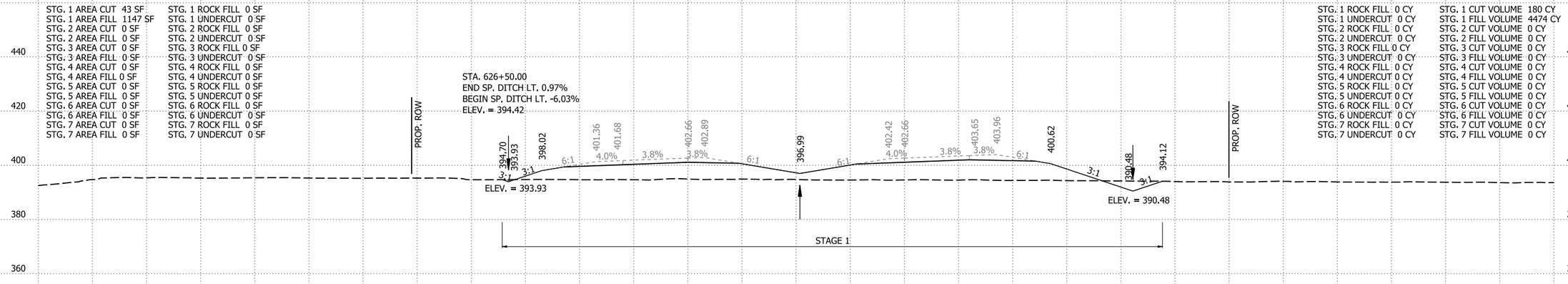
627+00.00

STG. 1 AREA CUT 43 SF
STG. 1 AREA FILL 1147 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 180 CY
STG. 1 FILL VOLUME 4474 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



626+00.00

I-49 STA. 626+00 TO STA. 628+00

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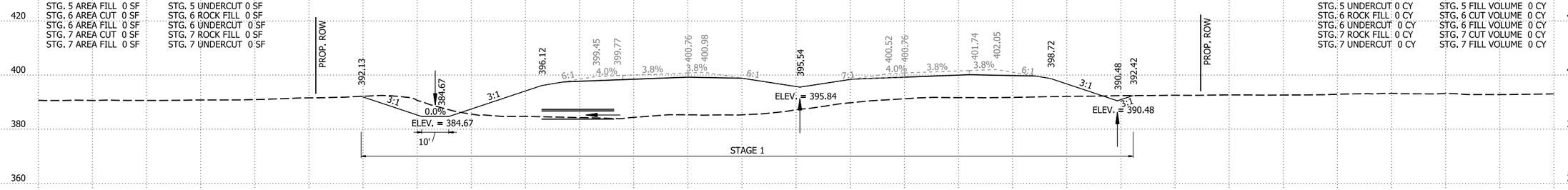
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	511	742
		CROSS SECTIONS				

STG. 1 AREA CUT 135 SF
STG. 1 AREA FILL 2250 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 308 CY
STG. 1 FILL VOLUME 7143 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



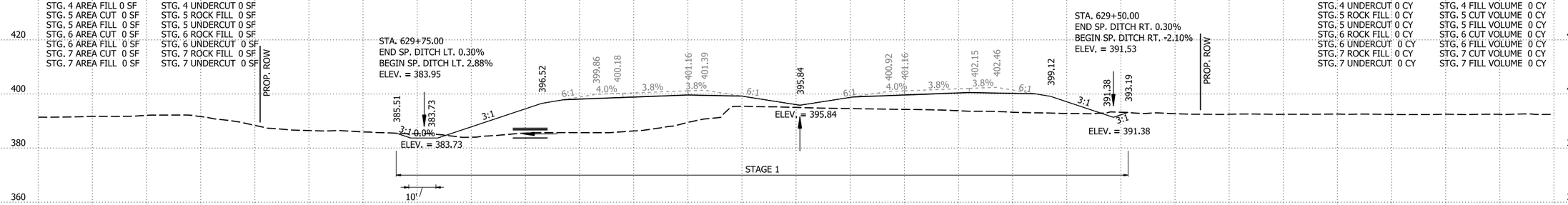
630+00.00

STG. 1 AREA CUT 31 SF
STG. 1 AREA FILL 1607 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 15 CY
STG. 1 FILL VOLUME 870 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



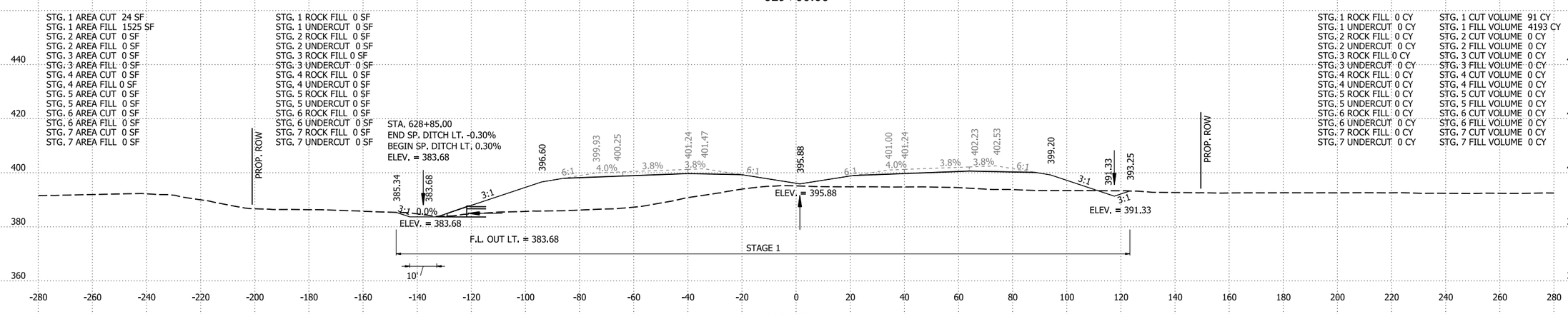
629+00.00

STG. 1 AREA CUT 24 SF
STG. 1 AREA FILL 1525 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 91 CY
STG. 1 FILL VOLUME 4193 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



628+85.00

I-49 STA. 628+85 TO STA. 630+00

4/30/2026 8:09:59 AM
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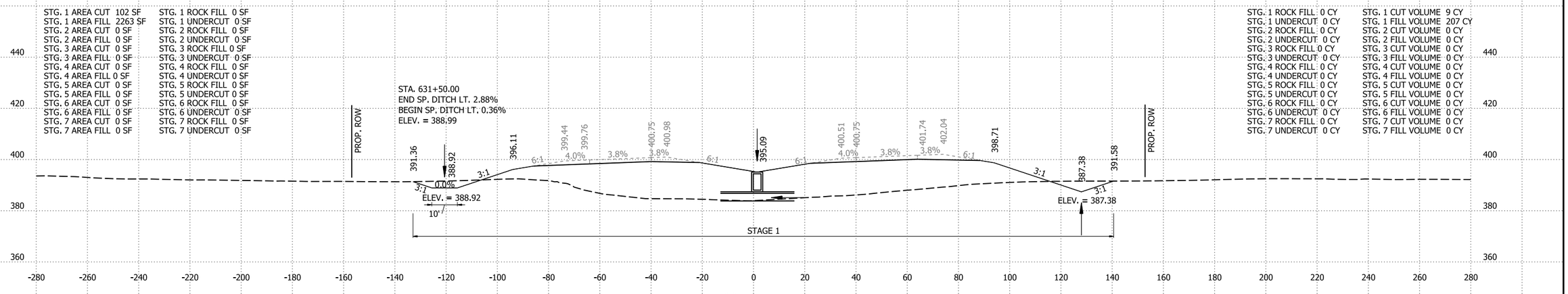
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	512	742
10-12-2026		CROSS SECTIONS				

STG. 1 AREA CUT 102 SF
STG. 1 AREA FILL 2263 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 9 CY
STG. 1 FILL VOLUME 207 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



631+47.47

STG. 1 AREA CUT 102 SF
STG. 1 AREA FILL 2265 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

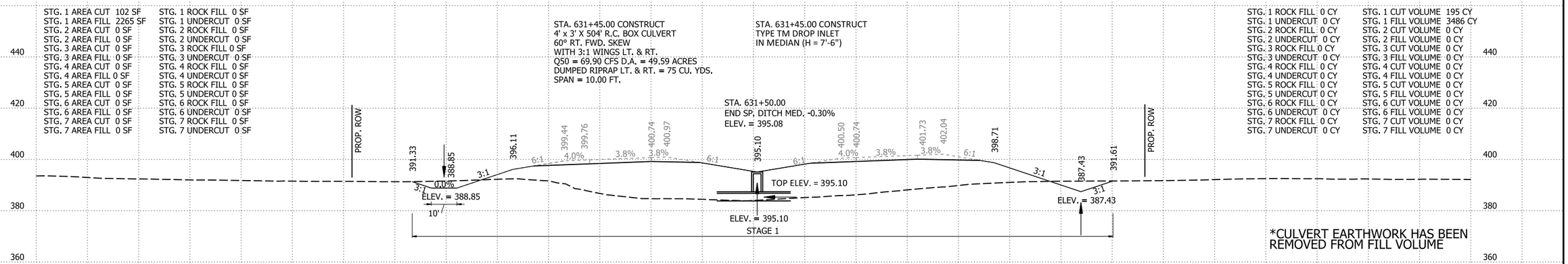
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 631+45.00 CONSTRUCT
4' x 3' X 504' R.C. BOX CULVERT
60° RT. FWD. SKEW
WITH 3:1 WINGS LT. & RT.
Q50 = 69.90 CFS D.A. = 49.59 ACRES
DUMPED RIPRAP LT. & RT. = 75 CU. YDS.
SPAN = 10.00 FT.

STA. 631+45.00 CONSTRUCT
TYPE TM DROP INLET
IN MEDIAN (H = 7'-6")

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 195 CY
STG. 1 FILL VOLUME 3486 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



*CULVERT EARTHWORK HAS BEEN
REMOVED FROM FILL VOLUME

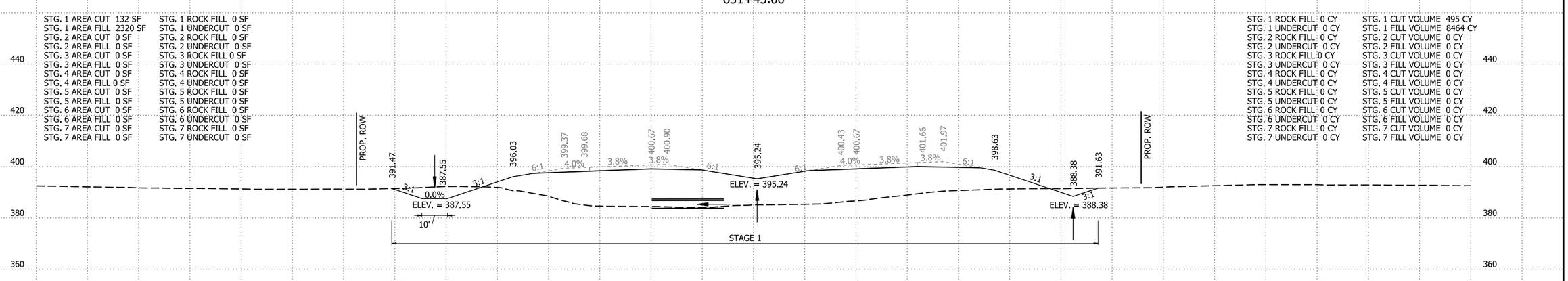
631+45.00

STG. 1 AREA CUT 132 SF
STG. 1 AREA FILL 2320 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 495 CY
STG. 1 FILL VOLUME 8464 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



631+00.00

I-49 STA. 631+00 TO STA. 631+47.47

10/19/2026 9:44:30 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	513	742

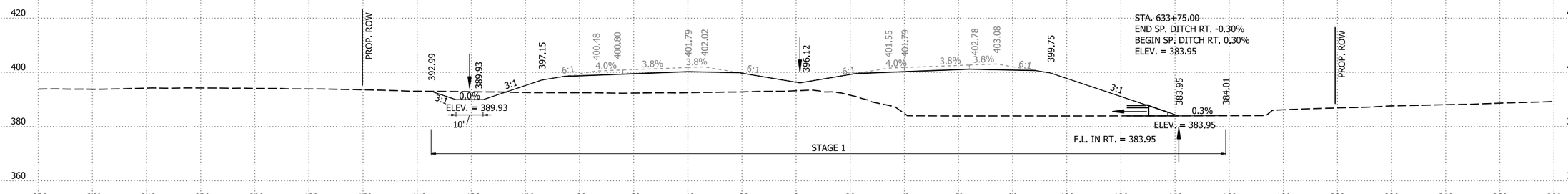
CROSS SECTIONS

STG. 1 AREA CUT 55 SF
STG. 1 AREA FILL 2240 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 143 CY
STG. 1 FILL VOLUME 6545 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

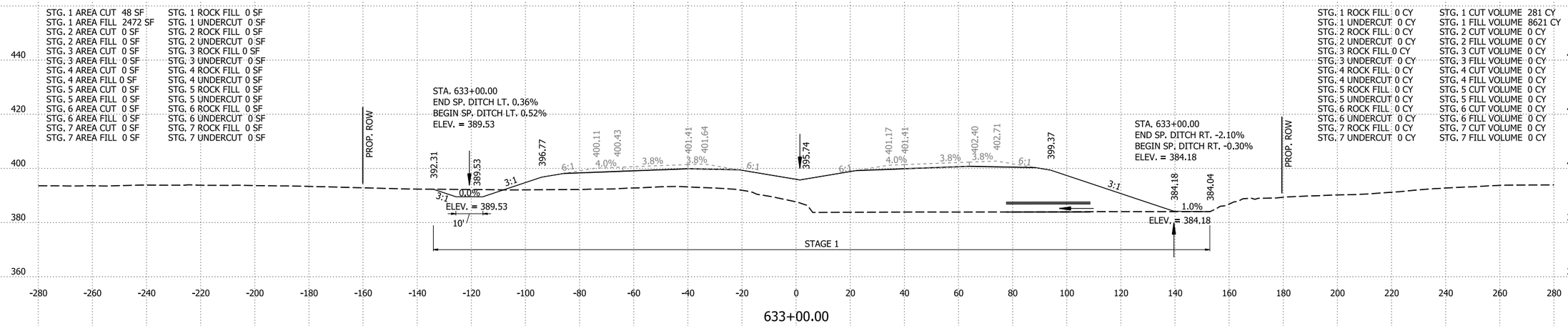


STG. 1 AREA CUT 48 SF
STG. 1 AREA FILL 2472 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 281 CY
STG. 1 FILL VOLUME 8621 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



STG. 1 AREA CUT 104 SF
STG. 1 AREA FILL 2183 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 200 CY
STG. 1 FILL VOLUME 4325 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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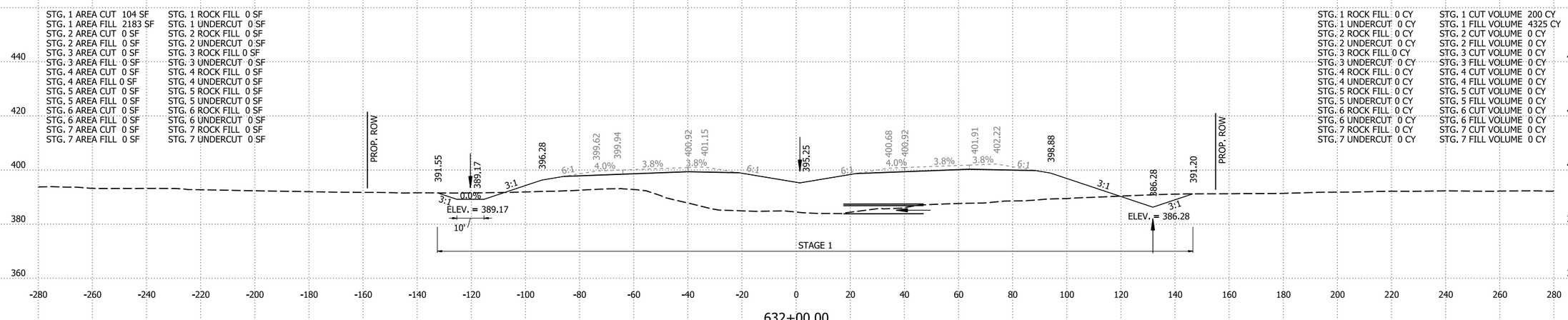
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 632+00 TO STA. 633+75

4/30/2026 8:10:00 AM
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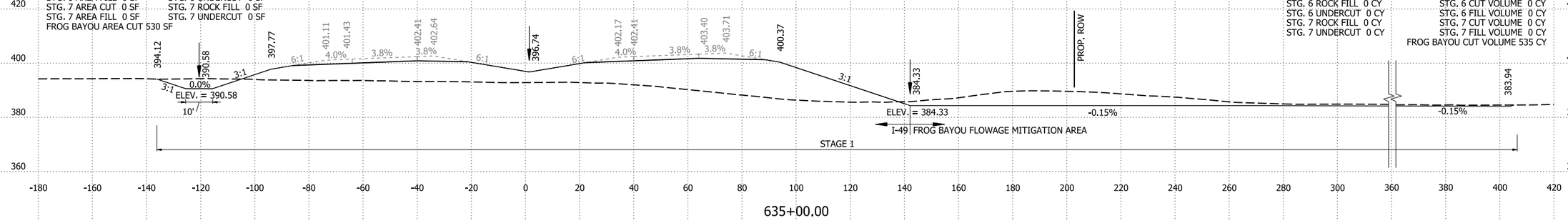
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	514	742
		CROSS SECTIONS				

STG. 1 AREA CUT 78 SF
STG. 1 AREA FILL 1842 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF
FROG BAYOU AREA CUT 530 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 136 CY
STG. 1 FILL VOLUME 3410 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY
FROG BAYOU CUT VOLUME 535 CY



635+00.00

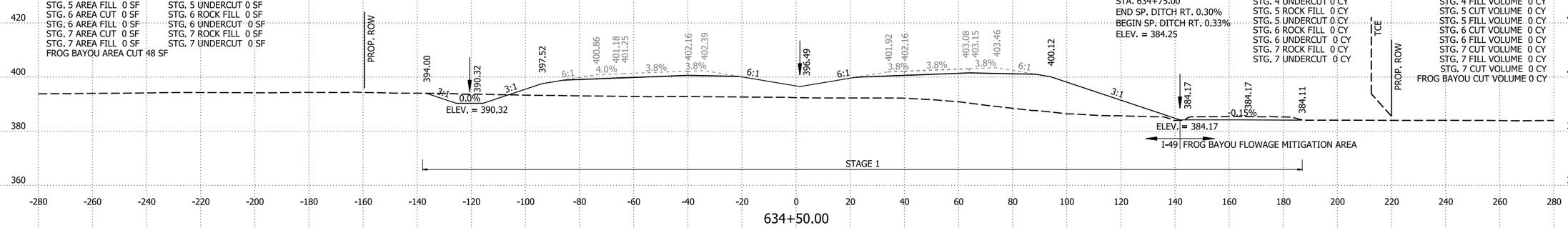
STG. 1 AREA CUT 69 SF
STG. 1 AREA FILL 1841 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF
FROG BAYOU AREA CUT 48 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 117 CY
STG. 1 FILL VOLUME 3660 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY
FROG BAYOU CUT VOLUME 0 CY

STA. 634+75.00
END SP. DITCH RT. 0.30%
BEGIN SP. DITCH RT. 0.33%
ELEV. = 384.25



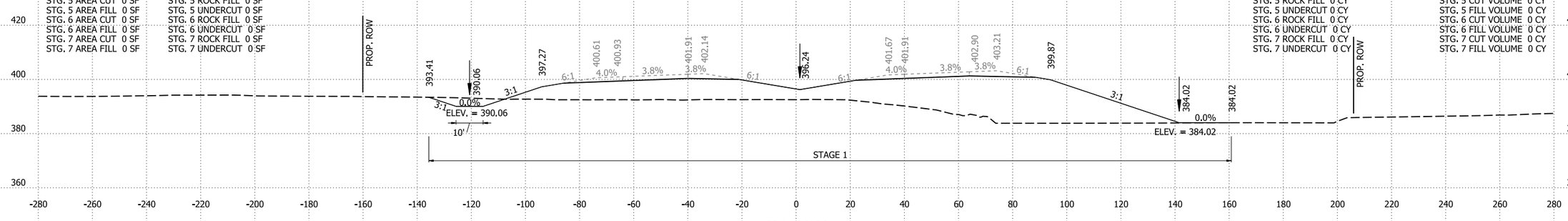
634+50.00

STG. 1 AREA CUT 58 SF
STG. 1 AREA FILL 2112 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 52 CY
STG. 1 FILL VOLUME 2015 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



634+00.00

I-49 STA. 634+00 TO STA. 635+00

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	515	742
		CROSS SECTIONS				

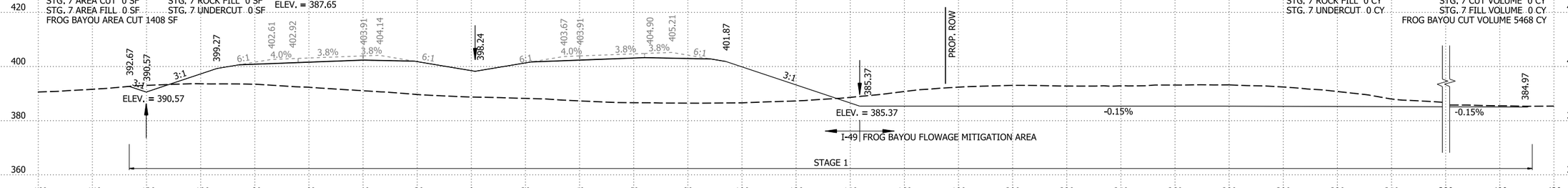
STG. 1 AREA CUT 33 SF
STG. 1 AREA FILL 2676 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF
FROG BAYOU AREA CUT 1408 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 638+50.00
END SP. DITCH LT. -5.84%
BEGIN SP. DITCH LT. -0.30%
ELEV. = 387.65

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 256 CY
STG. 1 FILL VOLUME 9516 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY
FROG BAYOU CUT VOLUME 5468 CY



638+00.00

STG. 1 AREA CUT 105 SF
STG. 1 AREA FILL 2463 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF
FROG BAYOU AREA CUT 1545 SF

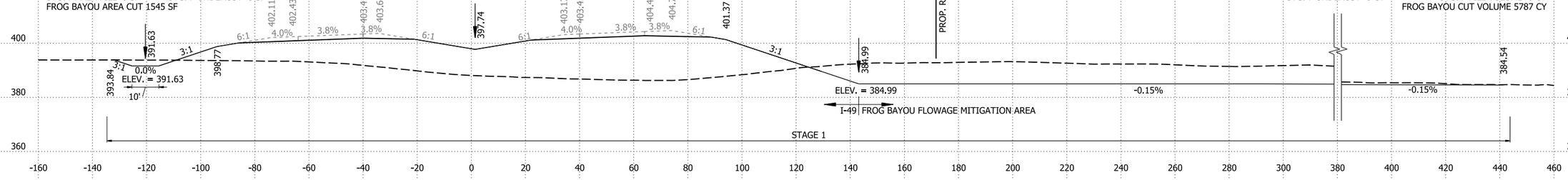
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 637+75.00
END SP. DITCH LT. 0.52%
BEGIN SP. DITCH LT. -5.84%
ELEV. = 392.03

STA. 637+36.00
END SP. DITCH RT. 0.33%
BEGIN SP. DITCH RT. 0.41%
ELEV. = 385.11

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 344 CY
STG. 1 FILL VOLUME 8592 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY
FROG BAYOU CUT VOLUME 5787 CY



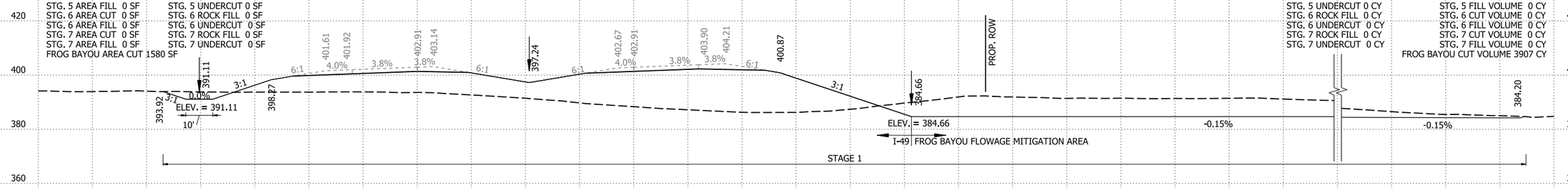
637+00.00

STG. 1 AREA CUT 81 SF
STG. 1 AREA FILL 2177 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF
FROG BAYOU AREA CUT 1580 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 294 CY
STG. 1 FILL VOLUME 7442 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY
FROG BAYOU CUT VOLUME 3907 CY



636+00.00

I-49 STA. 636+00 TO STA. 638+00

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	516	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 5 SF
STG. 4 AREA FILL 3561 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF
FROG BAYOU AREA CUT 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

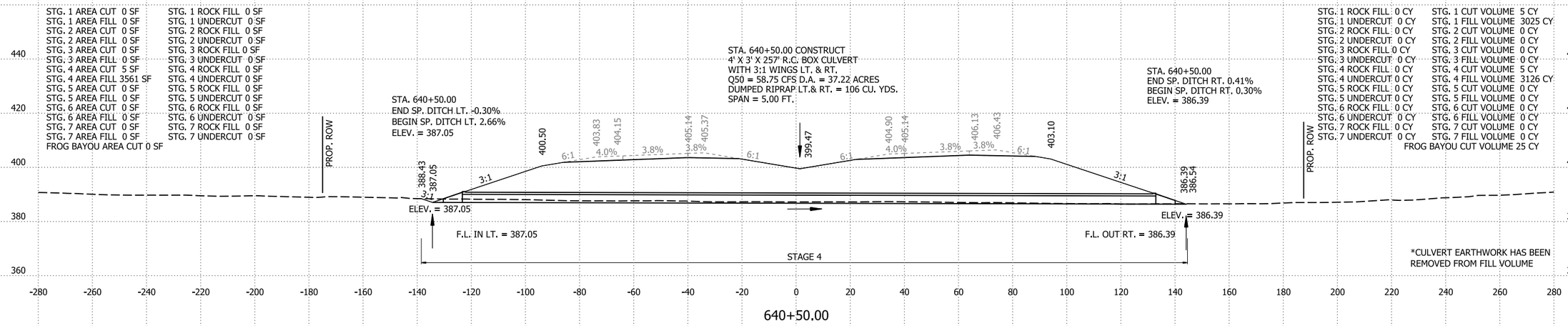
STA. 640+50.00
END SP. DITCH LT. -0.30%
BEGIN SP. DITCH LT. 2.66%
ELEV. = 387.05

STA. 640+50.00 CONSTRUCT
4' X 3' X 257' R.C. BOX CULVERT
WITH 3:1 WINGS LT. & RT.
Q50 = 58.75 CFS D.A. = 37.22 ACRES
DUMPED RIPRAP LT.& RT. = 106 CU. YDS.
SPAN = 5.00 FT.

STA. 640+50.00
END SP. DITCH RT. 0.41%
BEGIN SP. DITCH RT. 0.30%
ELEV. = 386.39

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 5 CY
STG. 1 FILL VOLUME 3025 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 5 CY
STG. 4 FILL VOLUME 3126 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY
FROG BAYOU CUT VOLUME 25 CY

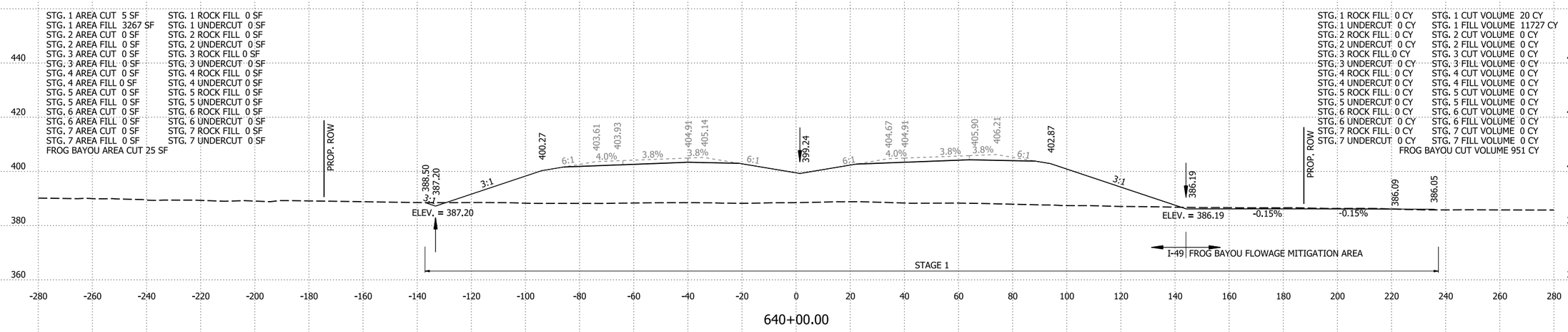


STG. 1 AREA CUT 5 SF
STG. 1 AREA FILL 3267 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF
FROG BAYOU AREA CUT 25 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 20 CY
STG. 1 FILL VOLUME 11727 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY
FROG BAYOU CUT VOLUME 951 CY

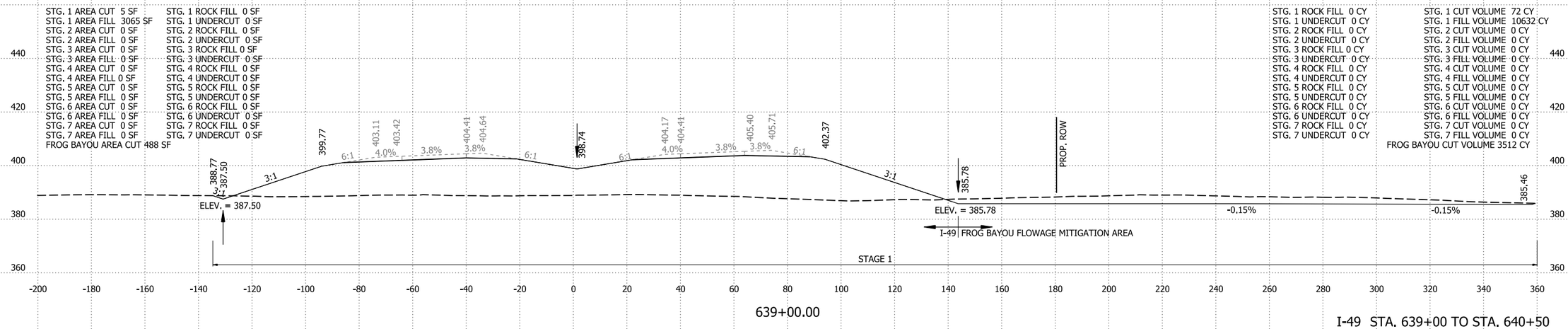


STG. 1 AREA CUT 5 SF
STG. 1 AREA FILL 3065 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF
FROG BAYOU AREA CUT 488 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 72 CY
STG. 1 FILL VOLUME 10632 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY
FROG BAYOU CUT VOLUME 3512 CY



I-49 STA. 639+00 TO STA. 640+50

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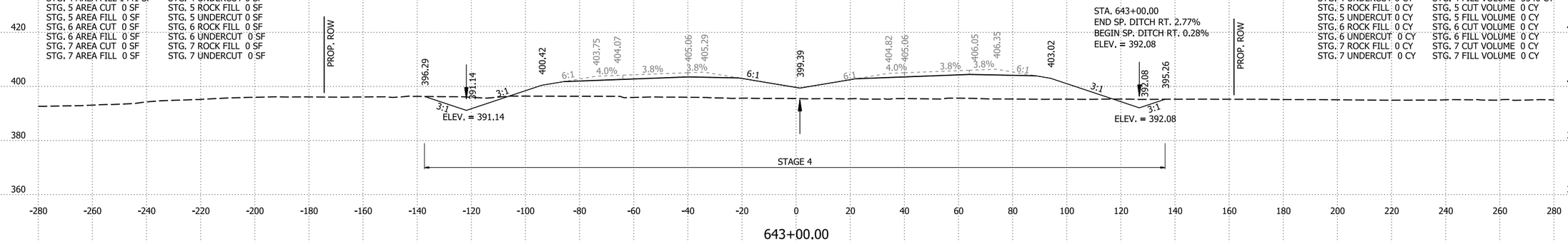
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	517	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 103 SF
STG. 4 AREA FILL 1441 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 503 CY
STG. 4 FILL VOLUME 5546 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



643+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 168 SF
STG. 4 AREA FILL 1554 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 478 CY
STG. 4 FILL VOLUME 8796 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
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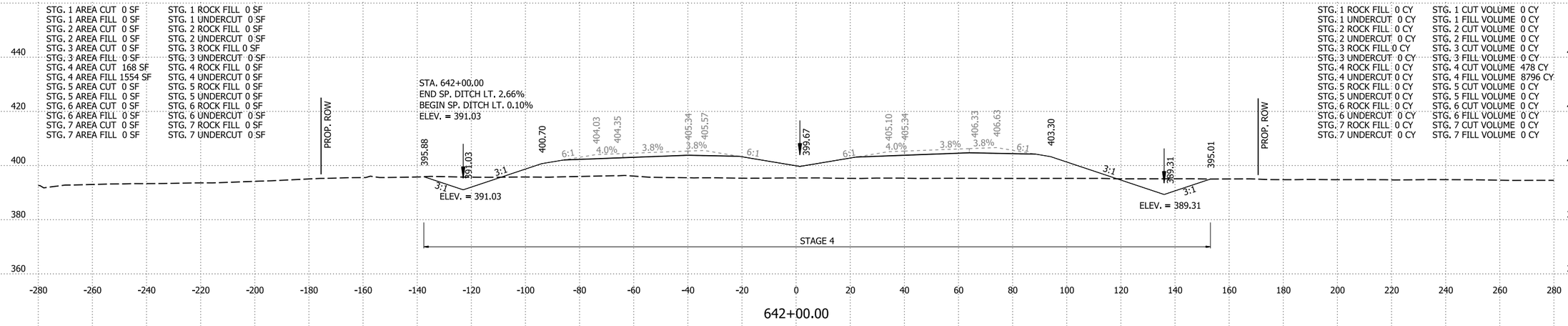
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



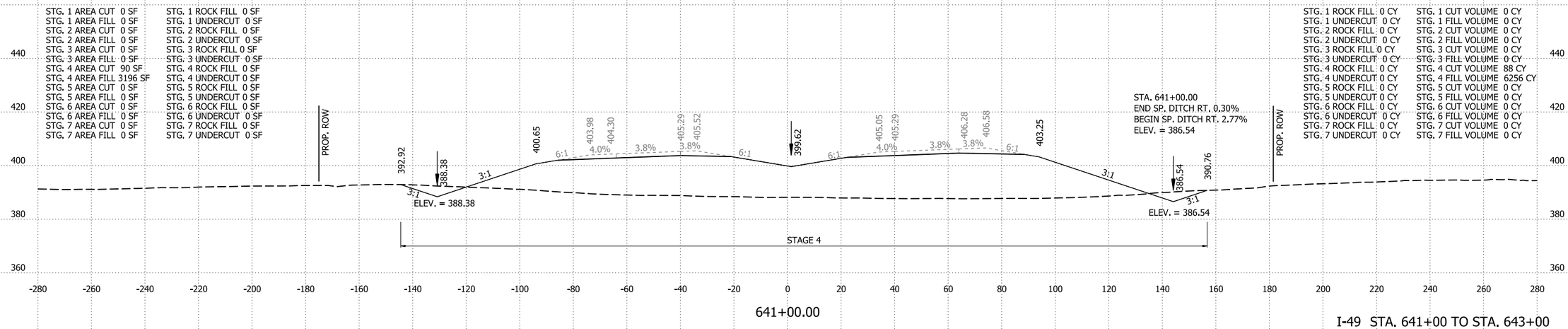
642+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 90 SF
STG. 4 AREA FILL 3196 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 88 CY
STG. 4 FILL VOLUME 6256 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



641+00.00

I-49 STA. 641+00 TO STA. 643+00

4/30/2026 8:10:09 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	518	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 90 SF
STG. 4 AREA FILL 1099 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 343 CY
STG. 4 FILL VOLUME 4327 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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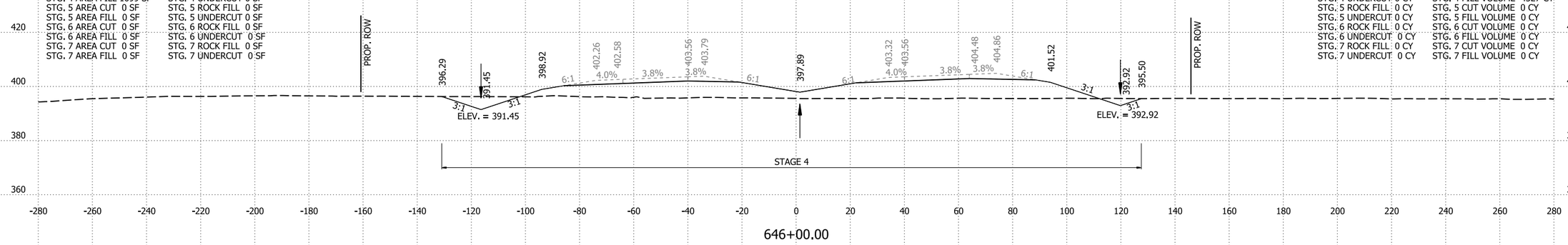
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



646+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 95 SF
STG. 4 AREA FILL 1238 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 367 CY
STG. 4 FILL VOLUME 4812 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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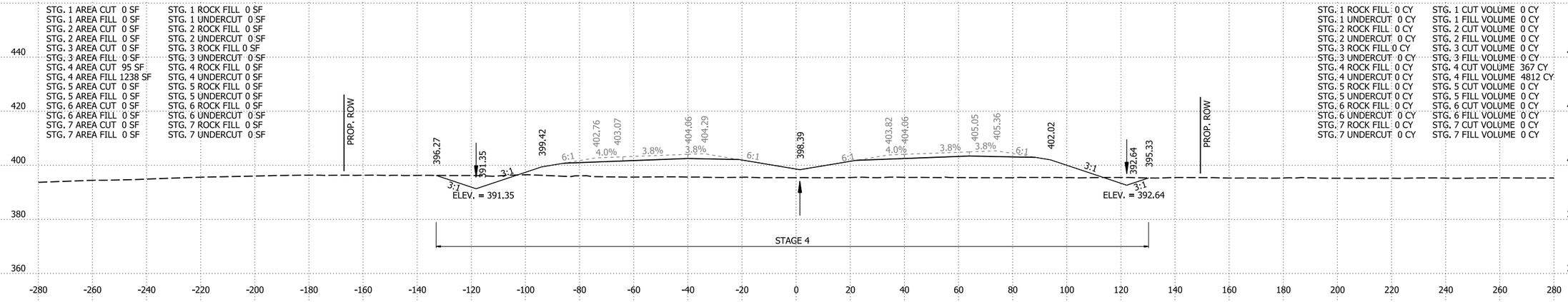
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



645+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 103 SF
STG. 4 AREA FILL 1361 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 383 CY
STG. 4 FILL VOLUME 5188 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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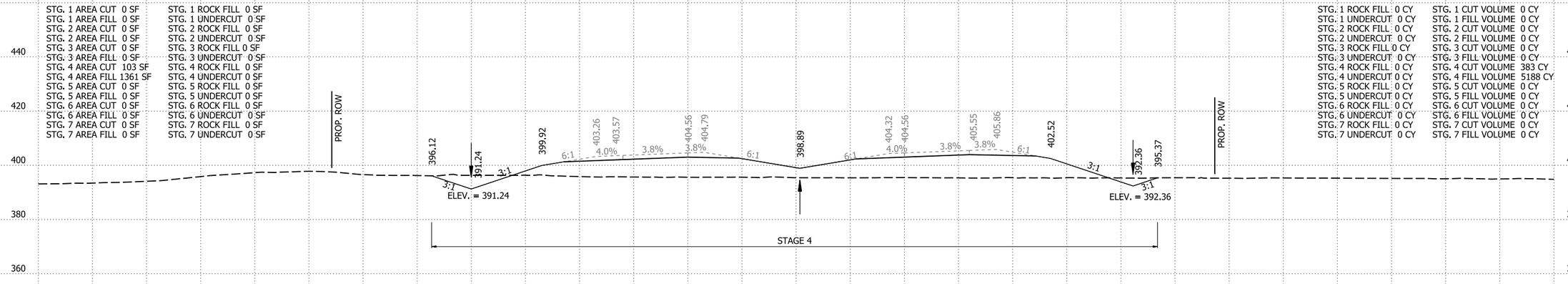

644+00.00

I-49 STA. 644+00 TO STA. 646+00

4/30/2026 8:10:16 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	519	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 55 SF
STG. 4 AREA FILL 727 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 218 CY
STG. 4 FILL VOLUME 2853 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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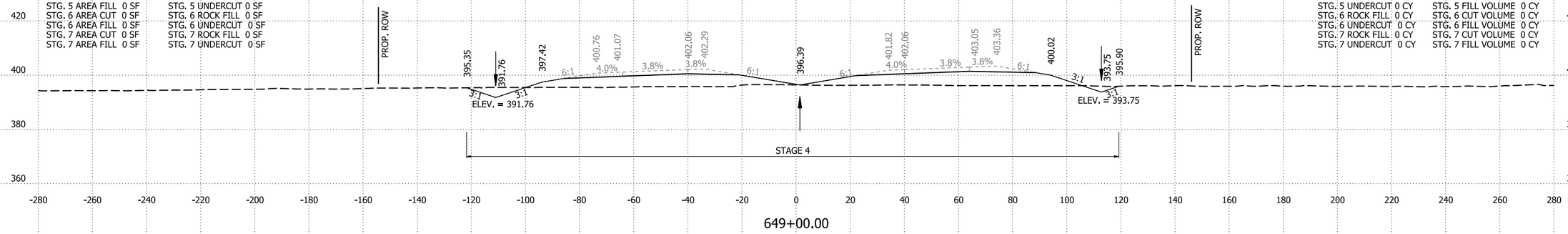
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



649+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 62 SF
STG. 4 AREA FILL 814 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 252 CY
STG. 4 FILL VOLUME 3286 CY
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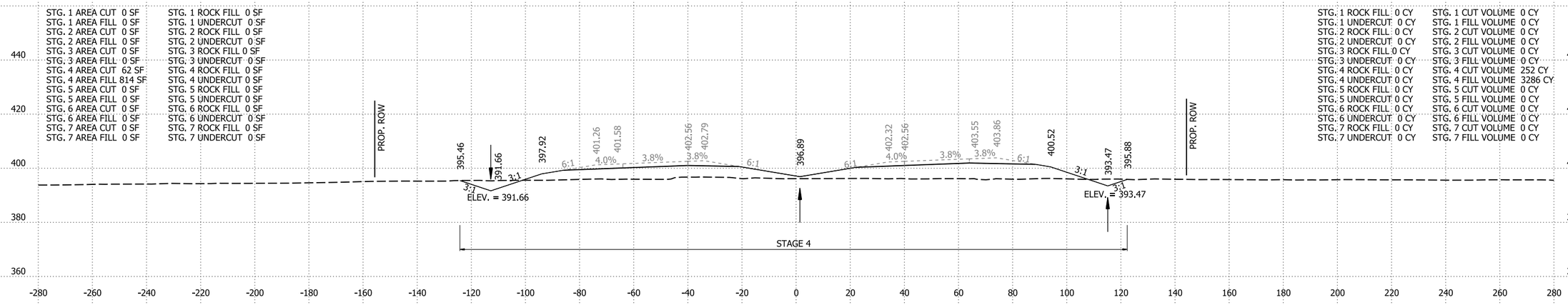
STG. 7 FILL VOLUME 0 CY



648+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 74 SF
STG. 4 AREA FILL 961 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 304 CY
STG. 4 FILL VOLUME 3814 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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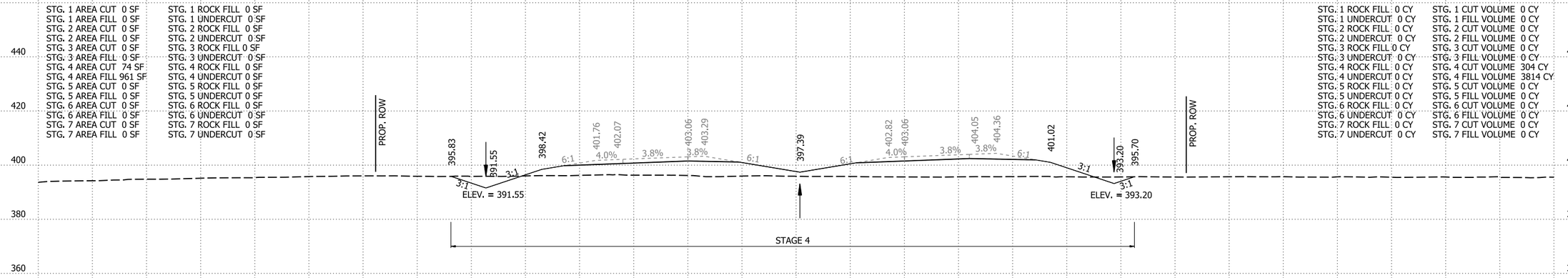

647+00.00

I-49 STA. 647+00 TO STA. 649+00

4/30/2026 8:10:23 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	520	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 65 SF
STG. 4 AREA FILL 475 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 125 CY
STG. 4 FILL VOLUME 894 CY
STG. 5 CUT VOLUME 0 CY
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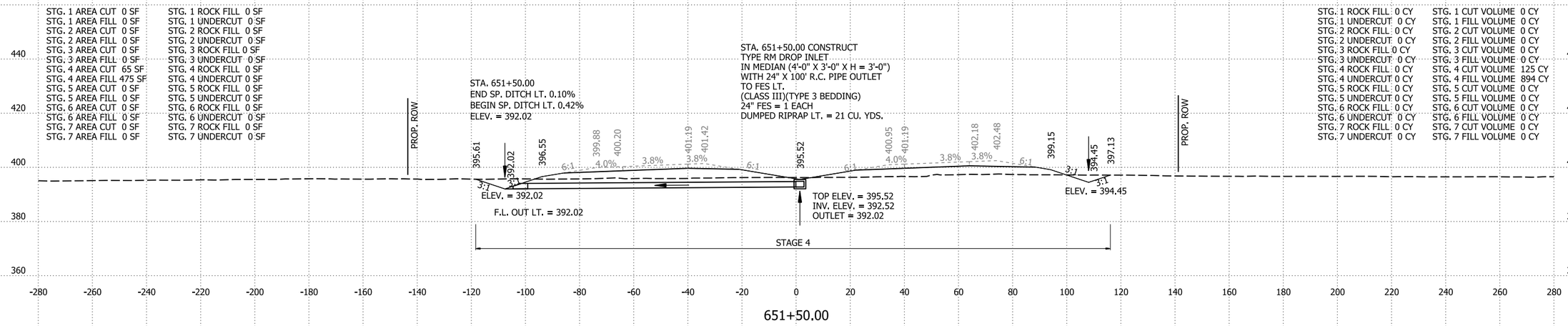
STG. 7 FILL VOLUME 0 CY



651+50.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
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STG. 2 AREA FILL 0 SF
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STG. 3 AREA FILL 0 SF
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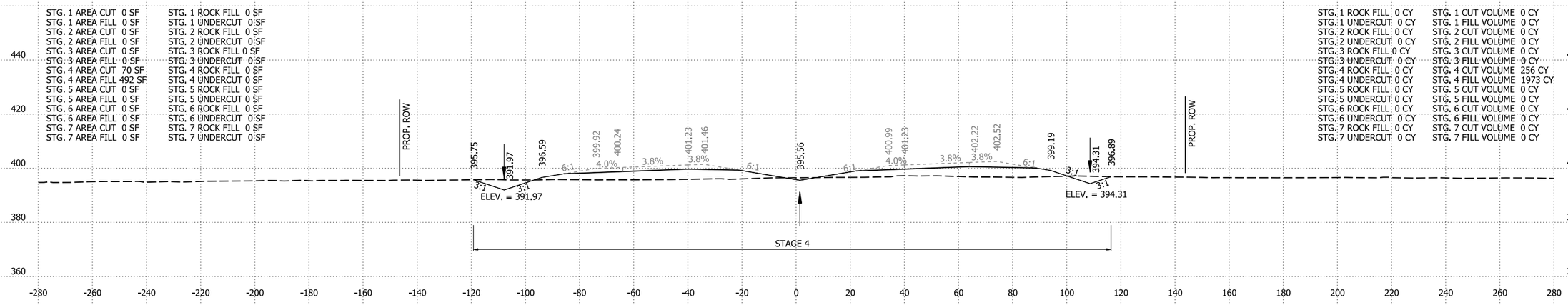
STG. 4 AREA FILL 492 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 256 CY
STG. 4 FILL VOLUME 1973 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



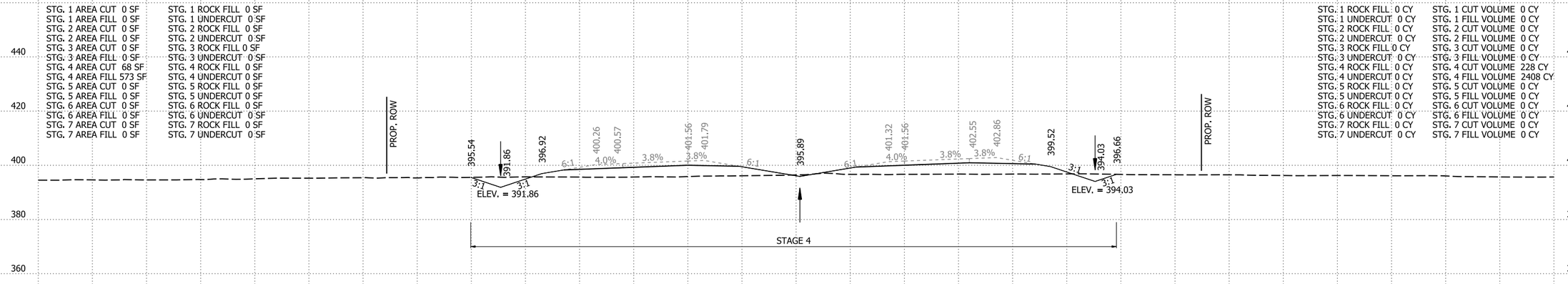
651+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 68 SF
STG. 4 AREA FILL 573 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 228 CY
STG. 4 FILL VOLUME 2408 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



650+00.00

I-49 STA. 650+00 TO STA. 651+50

4/30/2026 8:10:30 AM
R040904_22_CX.dgn

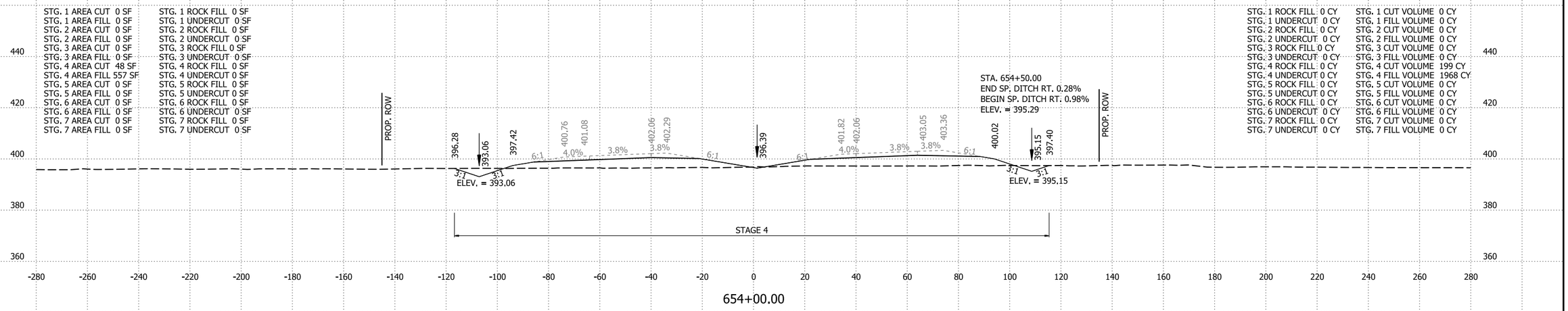
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	521	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 48 SF
STG. 4 AREA FILL 557 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 199 CY
STG. 4 FILL VOLUME 1968 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



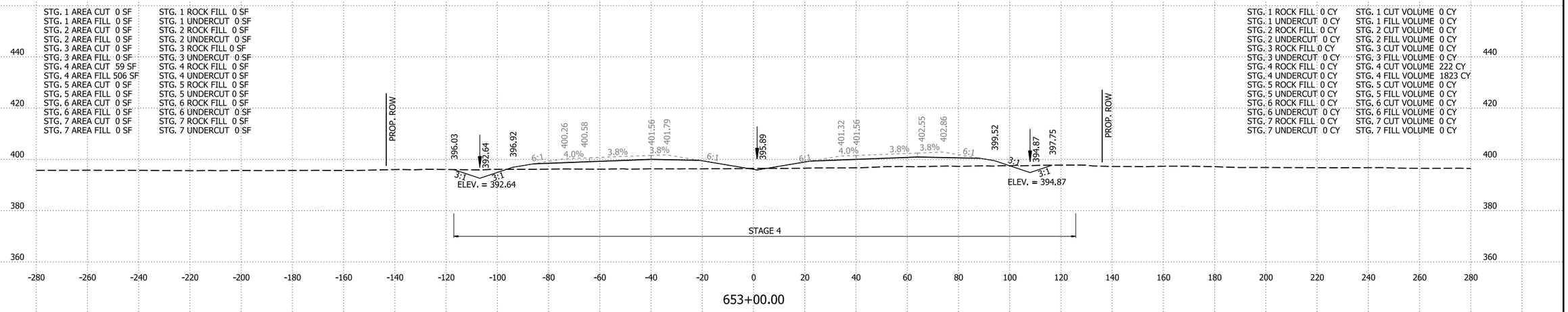
654+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 59 SF
STG. 4 AREA FILL 506 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 222 CY
STG. 4 FILL VOLUME 1823 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



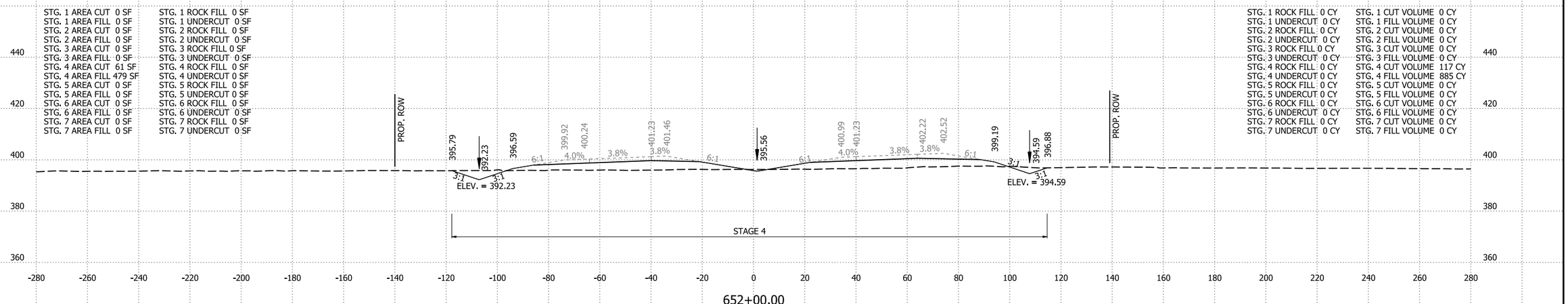
653+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 61 SF
STG. 4 AREA FILL 479 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 117 CY
STG. 4 FILL VOLUME 885 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



652+00.00

I-49 STA. 652+00 TO STA. 654+00

4/30/2026 8:10:37 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	522	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 21 SF
STG. 4 AREA FILL 743 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

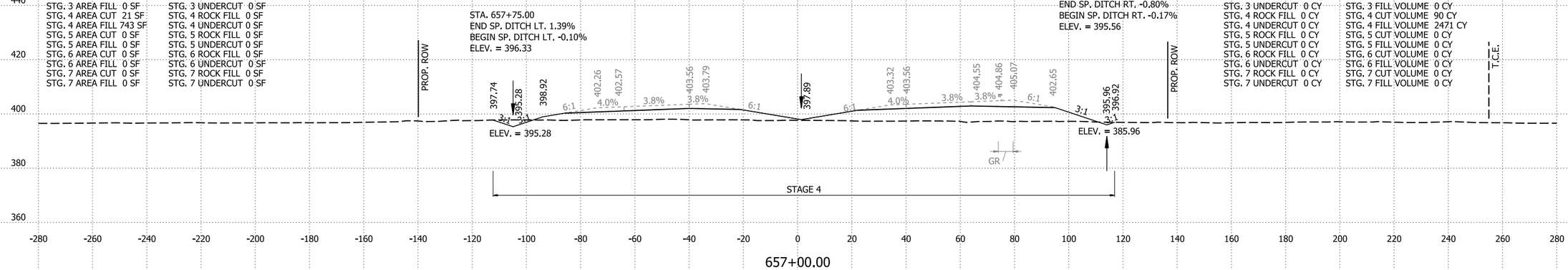
STA. 657+75.00
END SP. DITCH LT. 1.39%
BEGIN SP. DITCH LT. -0.10%
ELEV. = 396.33

STA. 657+00.00
BEGIN SP. DITCH RT. -0.80%
ELEV. = 395.96

STA. 657+50.00
END SP. DITCH RT. -0.80%
BEGIN SP. DITCH RT. -0.17%
ELEV. = 395.56

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 90 CY
STG. 4 FILL VOLUME 2471 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



657+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 27 SF
STG. 4 AREA FILL 591 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

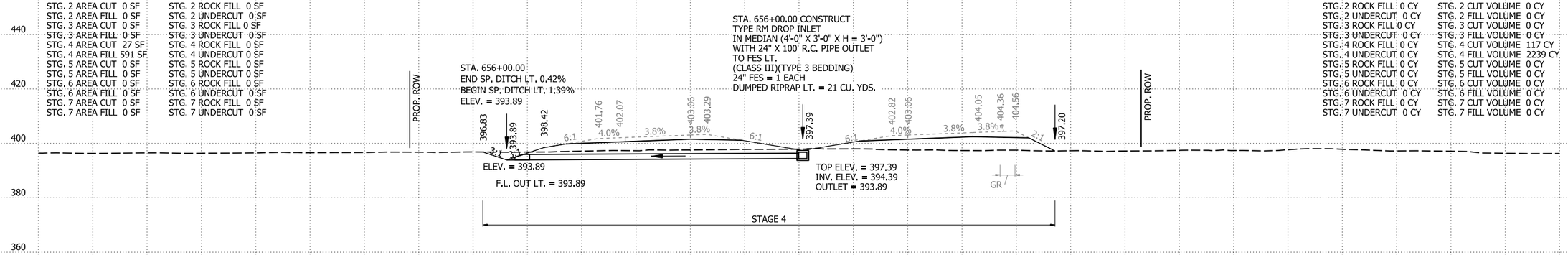
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 656+00.00 CONSTRUCT
TYPE RM DROP INLET
IN MEDIAN (4'-0" X 3'-0" X H = 3'-0")
WITH 24" X 100' R.C. PIPE OUTLET
TO FES LT.
(CLASS III)(TYPE 3 BEDDING)
24" FES = 1 EACH
DUMPED RIPRAP LT. = 21 CU. YDS.

STA. 656+00.00
END SP. DITCH LT. 0.42%
BEGIN SP. DITCH LT. 1.39%
ELEV. = 393.89

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 117 CY
STG. 4 FILL VOLUME 2239 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



656+00.00

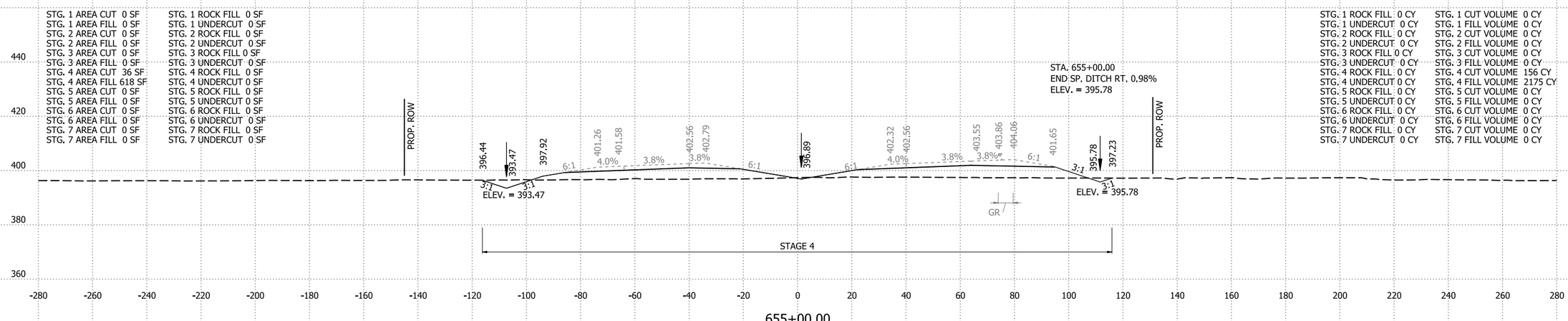
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 36 SF
STG. 4 AREA FILL 618 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 655+00.00
END SP. DITCH RT. 0.98%
ELEV. = 395.78

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 156 CY
STG. 4 FILL VOLUME 2175 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



655+00.00

I-49 STA. 655+00 TO STA. 657+00

4/30/2026 8:10:44 AM
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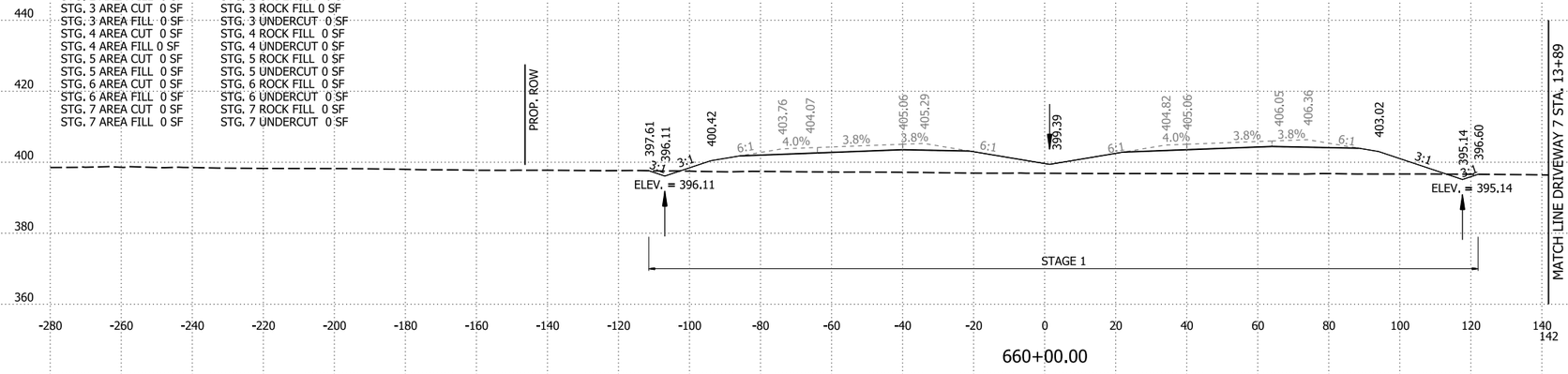
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	523	742
		CROSS SECTIONS				

STG. 1 AREA CUT 13 SF
STG. 1 AREA FILL 1166 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 24 CY
STG. 1 FILL VOLUME 2154 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 29 CY
STG. 4 FILL VOLUME 1836 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

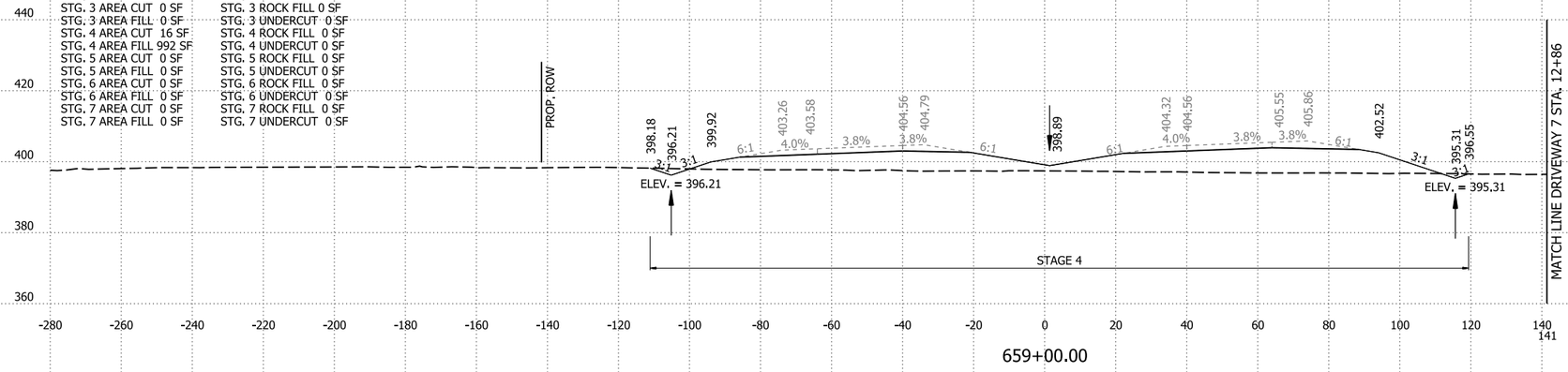


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 16 SF
STG. 4 AREA FILL 992 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 62 CY
STG. 4 FILL VOLUME 3316 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

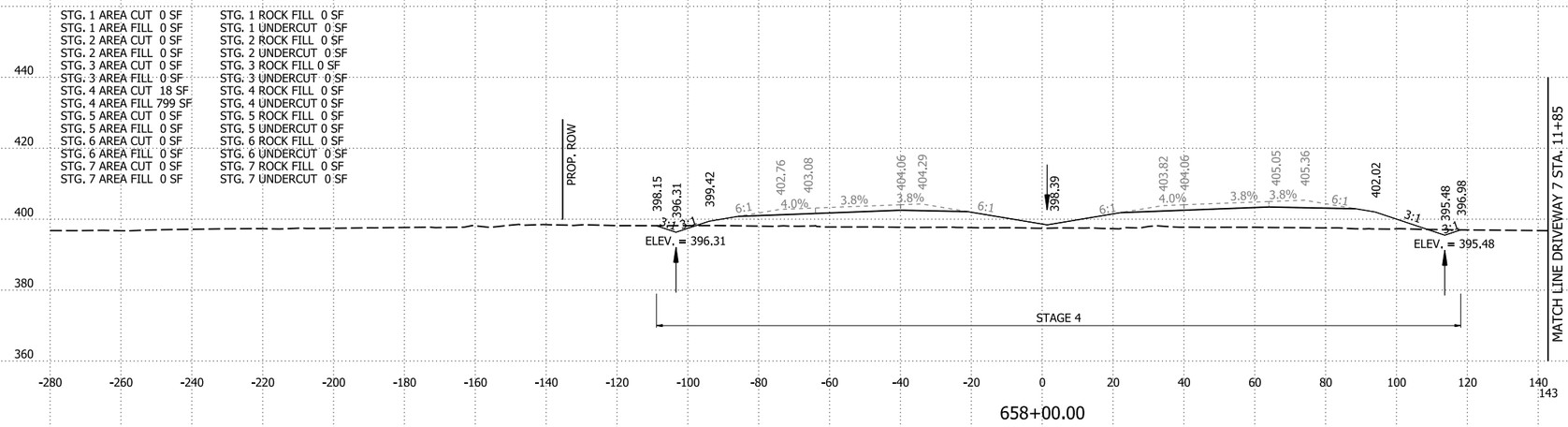


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 18 SF
STG. 4 AREA FILL 799 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 72 CY
STG. 4 FILL VOLUME 2856 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 658+00 TO STA. 660+00

4/30/2026 8:10:52 AM
R040904_22_CX.dgn

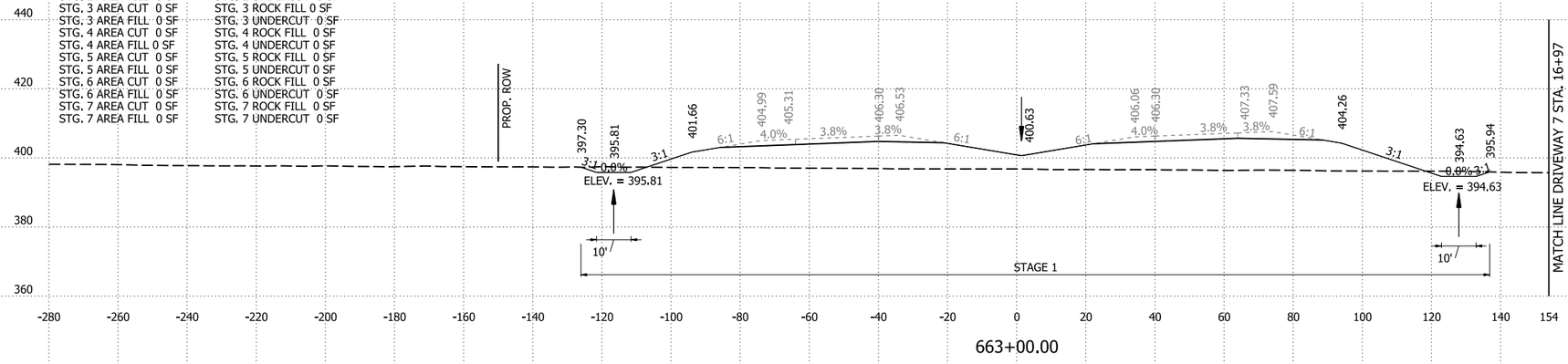
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	524	742
		CROSS SECTIONS				

STG. 1 AREA CUT 44 SF
STG. 1 AREA FILL 1492 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 108 CY
STG. 1 FILL VOLUME 5391 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

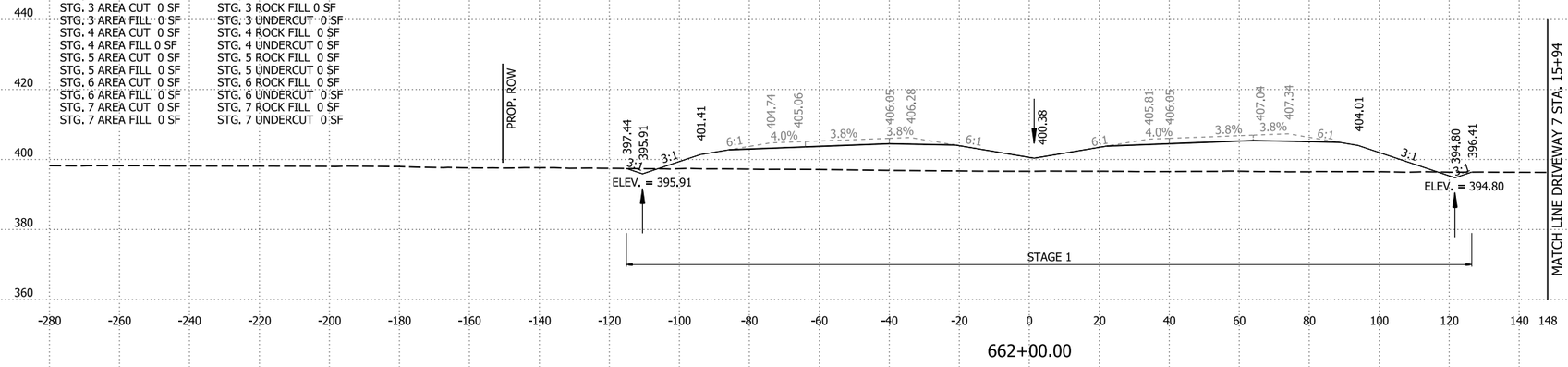


STG. 1 AREA CUT 14 SF
STG. 1 AREA FILL 1419 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 48 CY
STG. 1 FILL VOLUME 4950 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



STG. 1 AREA CUT 12 SF
STG. 1 AREA FILL 1254 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 46 CY
STG. 1 FILL VOLUME 4476 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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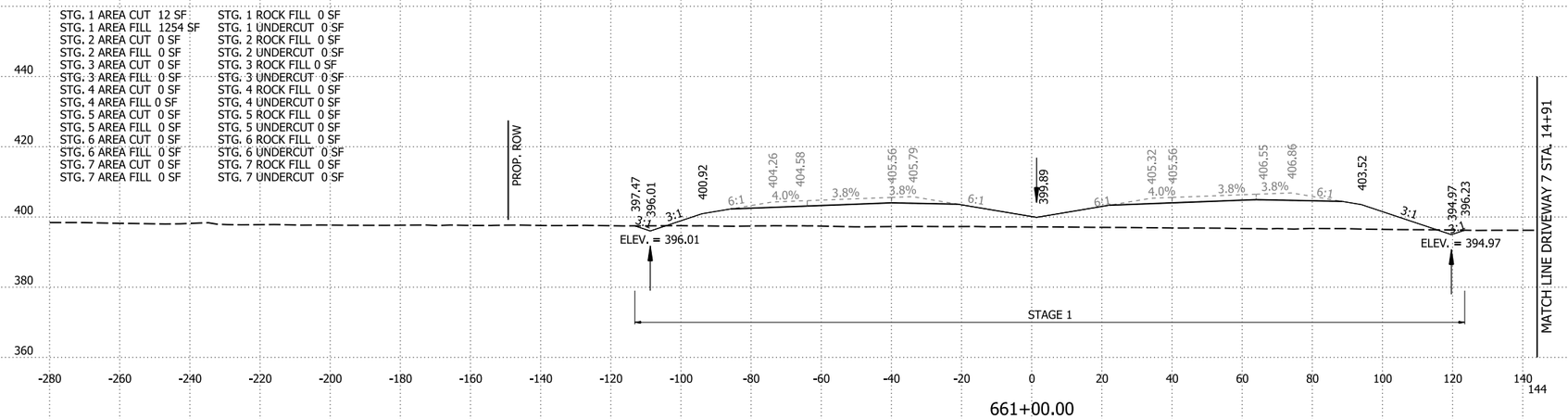
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 661+00 TO STA. 663+00

4/30/2026 8:10:59 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	525	742
		CROSS SECTIONS				

STG. 1 AREA CUT 23 SF
STG. 1 AREA FILL 1471 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 83 CY
STG. 1 FILL VOLUME 5628 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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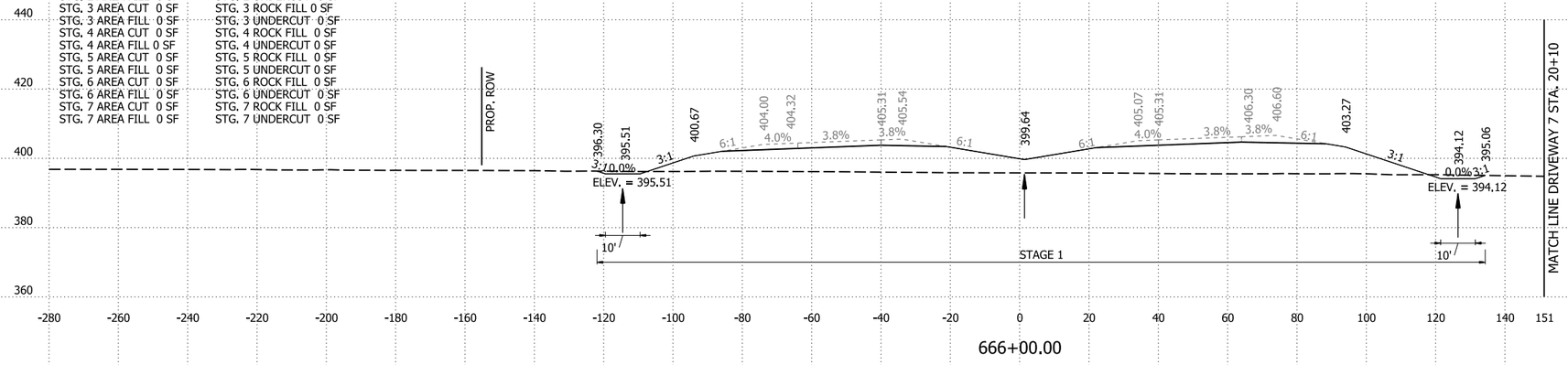
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



666+00.00

STG. 1 AREA CUT 22 SF
STG. 1 AREA FILL 1569 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 84 CY
STG. 1 FILL VOLUME 5914 CY
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STG. 2 FILL VOLUME 0 CY
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STG. 5 FILL VOLUME 0 CY
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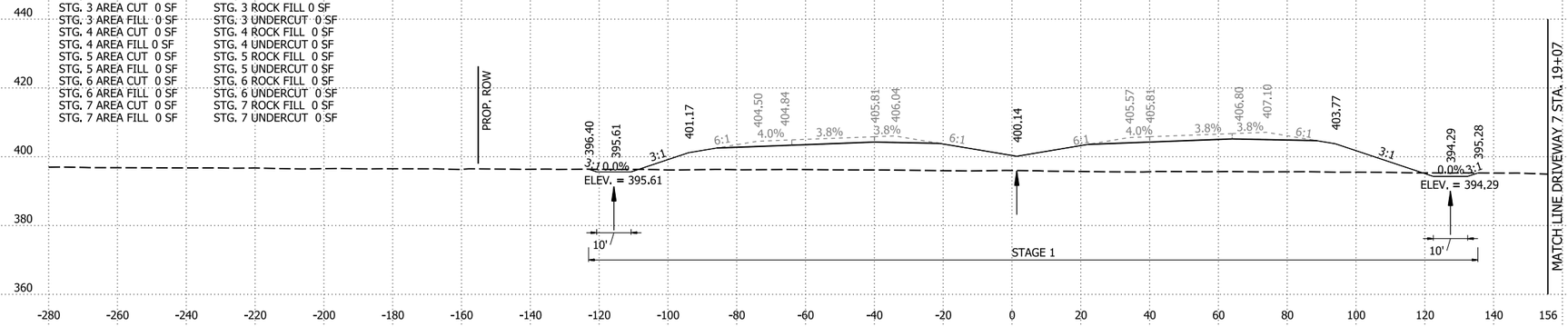
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



665+00.00

STG. 1 AREA CUT 23 SF
STG. 1 AREA FILL 1625 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 124 CY
STG. 1 FILL VOLUME 5772 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
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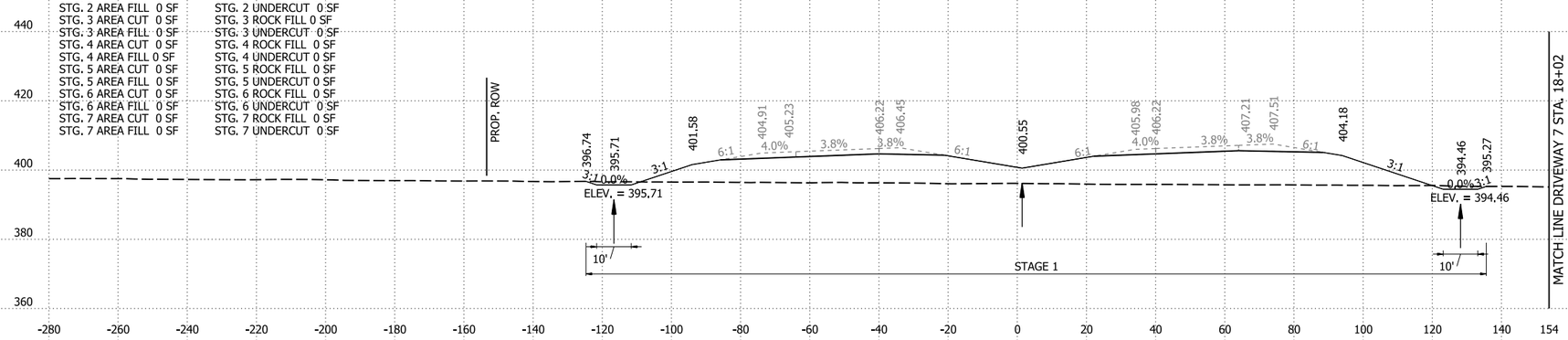


664+00.00

I-49 STA. 664+00 TO STA. 666+00

4/30/2026 8:11:06 AM
R040904_22_CX.dgn

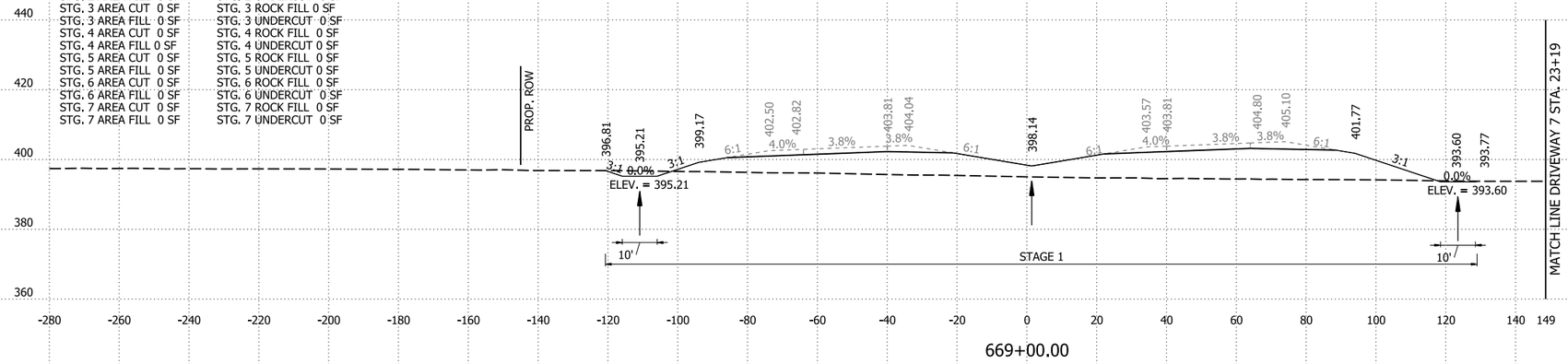
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	526	742
		CROSS SECTIONS				

STG. 1 AREA CUT 24 SF
STG. 1 AREA FILL 1289 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 88 CY
STG. 1 FILL VOLUME 4794 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



669+00.00

STG. 1 AREA CUT 23 SF
STG. 1 AREA FILL 1300 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 89 CY
STG. 1 FILL VOLUME 4860 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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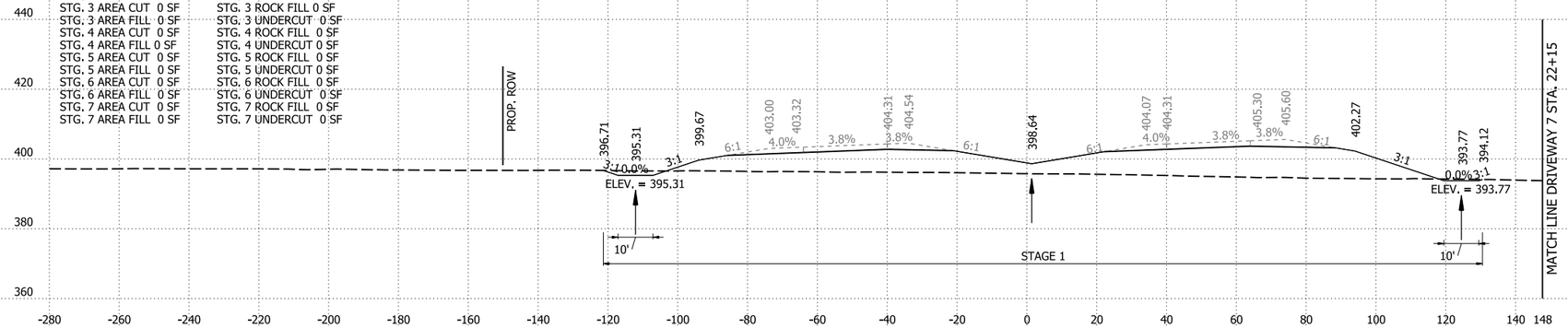
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



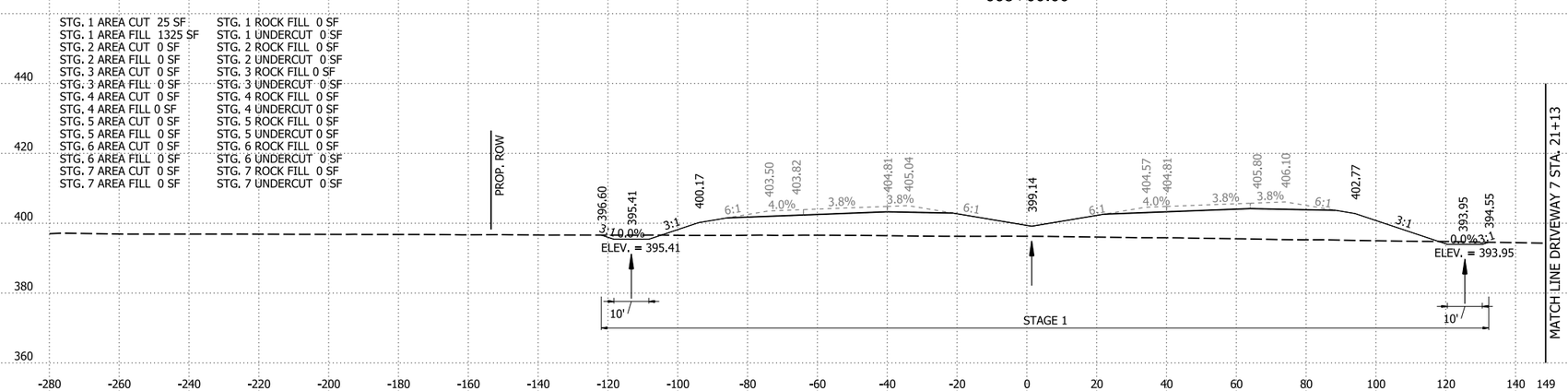
668+00.00

STG. 1 AREA CUT 25 SF
STG. 1 AREA FILL 1325 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 89 CY
STG. 1 FILL VOLUME 5176 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



667+00.00

I-49 STA. 667+00 TO STA. 669+00

4/30/2026 8:11:12 AM
R040904_22_CX.dgn

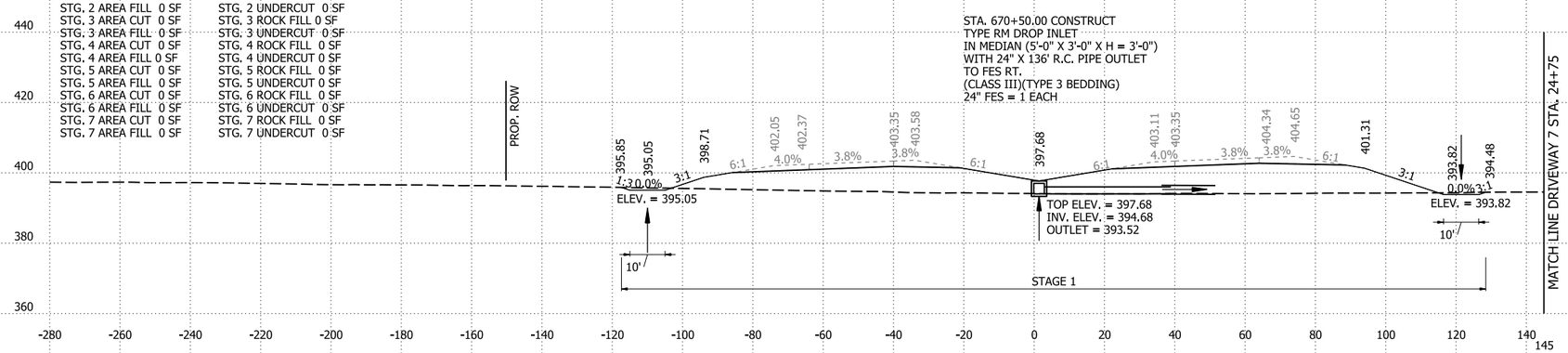
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	527	742
		CROSS SECTIONS				

STG. 1 AREA CUT 15 SF
STG. 1 AREA FILL 1340 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 27 CY
STG. 1 FILL VOLUME 2465 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

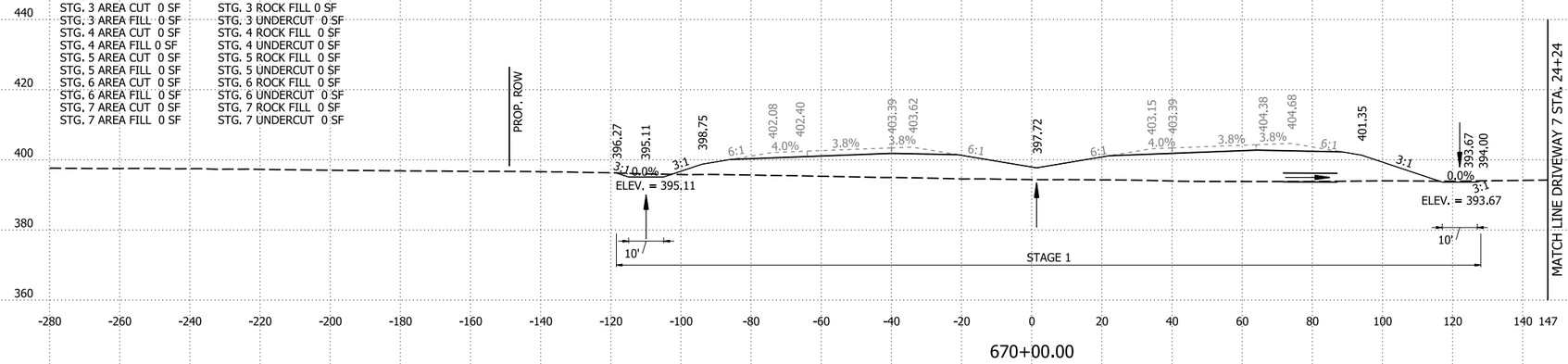


STG. 1 AREA CUT 14 SF
STG. 1 AREA FILL 1323 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 34 CY
STG. 1 FILL VOLUME 2435 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

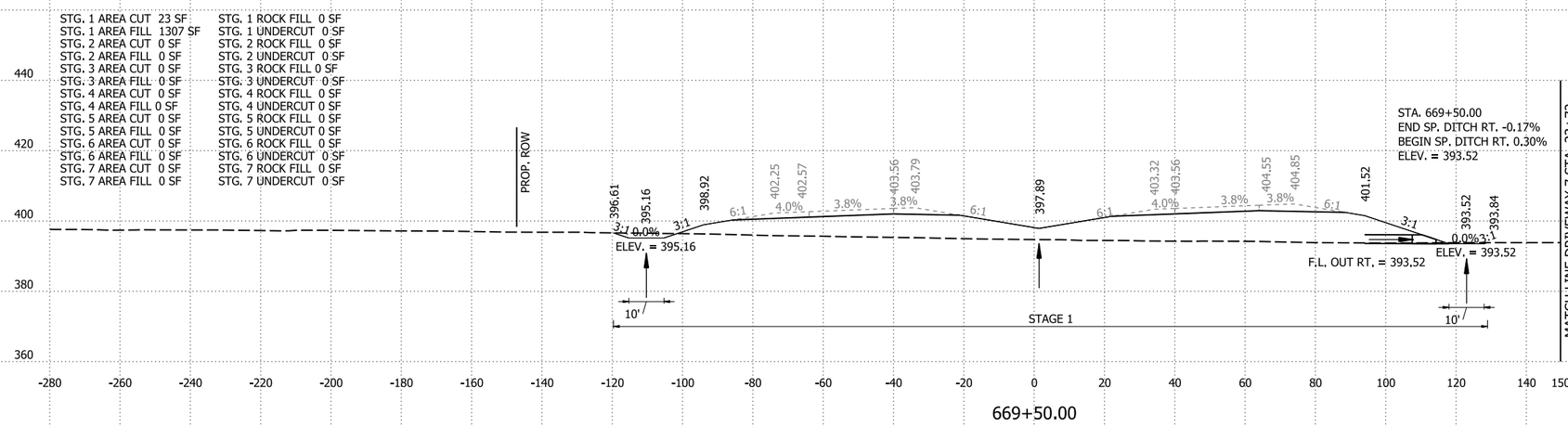


STG. 1 AREA CUT 23 SF
STG. 1 AREA FILL 1307 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 44 CY
STG. 1 FILL VOLUME 2404 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 669+50 TO STA. 670+50

4/30/2026 8:11:19 AM
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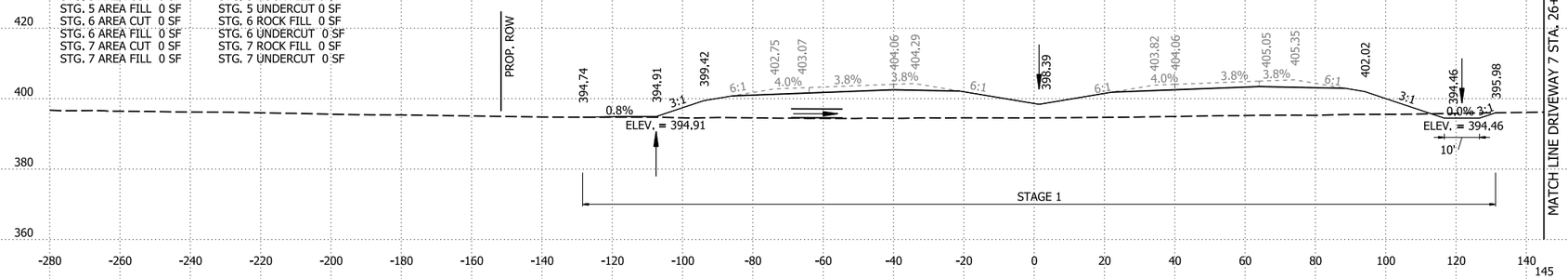
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	528	742
		CROSS SECTIONS				

STG. 1 AREA CUT 20 SF
STG. 1 AREA FILL 1417 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 57 CY
STG. 1 FILL VOLUME 4666 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



672+00.00

STG. 1 AREA CUT 15 SF
STG. 1 AREA FILL 1383 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

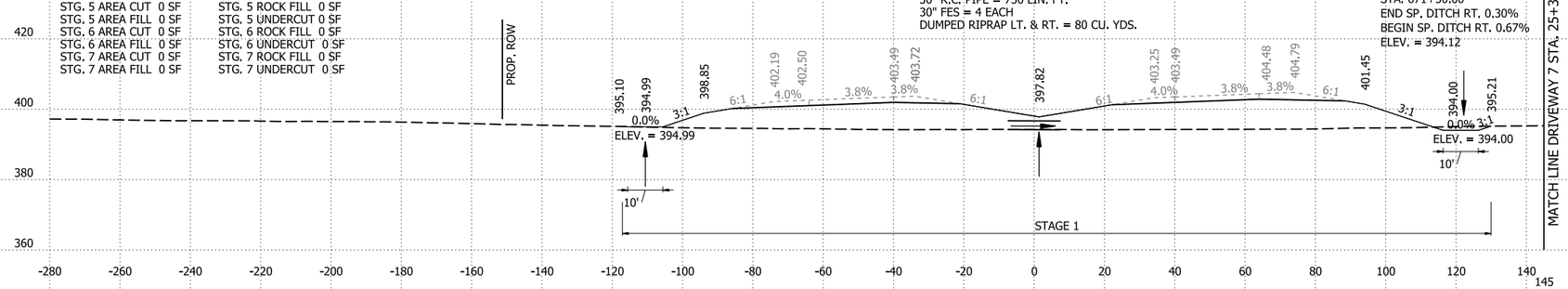
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 671+10.00 CONSTRUCT
DOUBLE 30" X 366' R.C. PIPE CULVERT
55° LT. FWD. SKEW
(CLASS III)(TYPE 3 BEDDING)
WITH FES LT. & RT.
Q50 = 40.59 CFS D.A. = 21.46 ACRES
30" R.C. PIPE = 730 LIN. FT.
30" FES = 4 EACH
DUMPED RIPRAP LT. & RT. = 80 CU. YDS.

STA. 671+50.00
END SP. DITCH RT. 0.30%
BEGIN SP. DITCH RT. 0.67%
ELEV. = 394.12

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 5 CY
STG. 1 FILL VOLUME 511 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



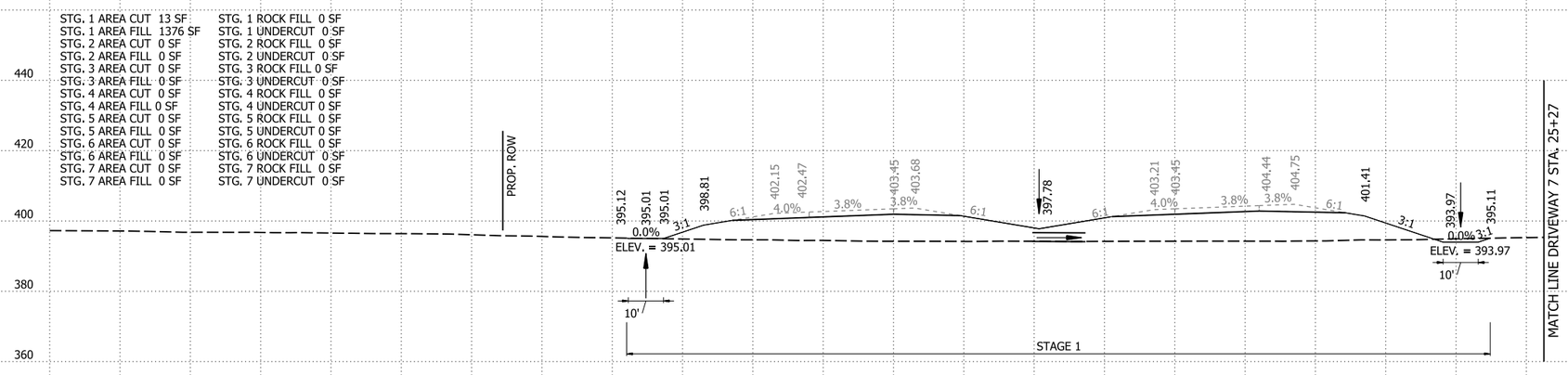
671+10.00

STG. 1 AREA CUT 13 SF
STG. 1 AREA FILL 1376 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 26 CY
STG. 1 FILL VOLUME 2515 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



671+00.00

I-49 STA. 671+00 TO STA. 672+00

4/30/2026 8:11:26 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	529	742
		CROSS SECTIONS				

STG. 1 AREA CUT 11 SF
STG. 1 AREA FILL 1605 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 35 CY
STG. 1 FILL VOLUME 5653 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
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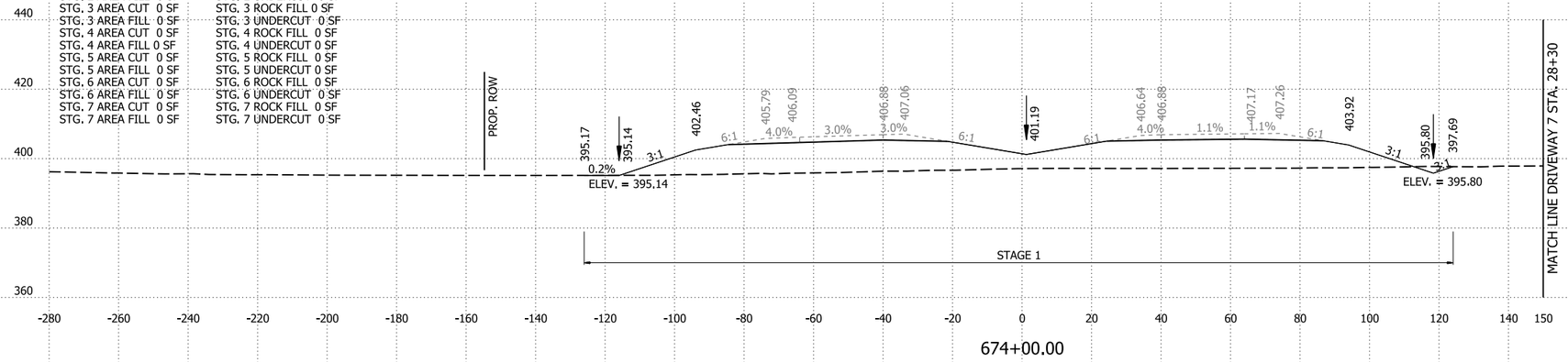
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

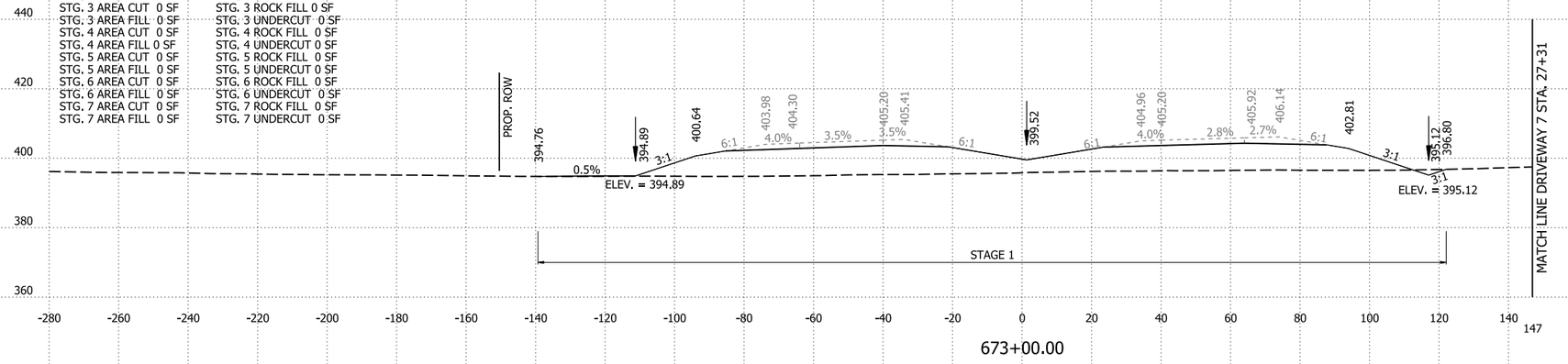


STG. 1 AREA CUT 7 SF
STG. 1 AREA FILL 1448 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 8 CY
STG. 1 FILL VOLUME 1343 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

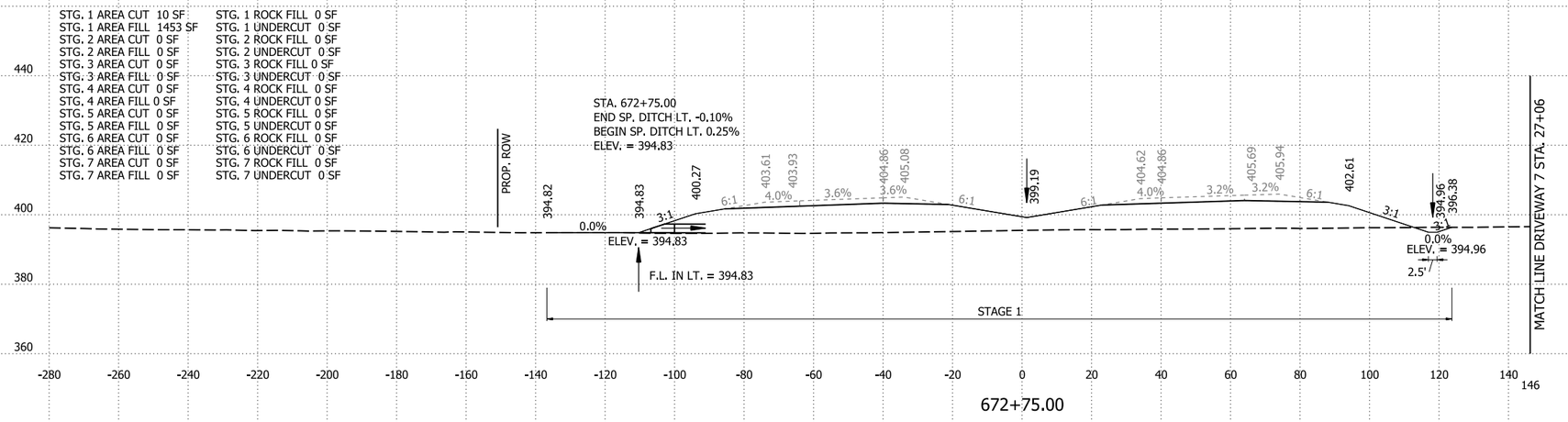


STG. 1 AREA CUT 10 SF
STG. 1 AREA FILL 1453 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 41 CY
STG. 1 FILL VOLUME 3985 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 672+75 TO STA. 674+00

4/30/2026 8:11:34 AM
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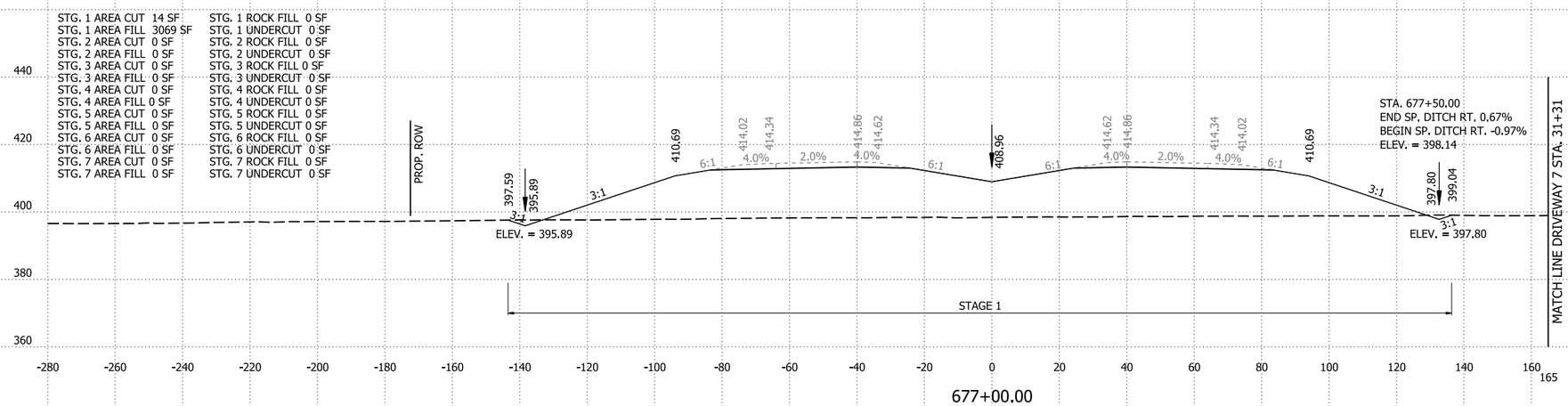
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	530	742
		CROSS SECTIONS				

STG. 1 AREA CUT 14 SF
STG. 1 AREA FILL 3069 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 73 CY
STG. 1 FILL VOLUME 10128 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

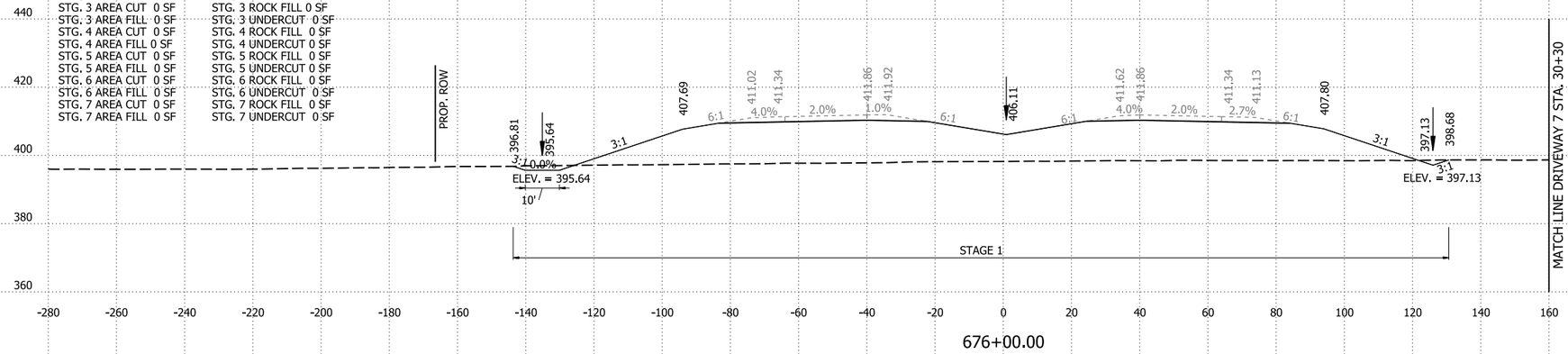


STG. 1 AREA CUT 26 SF
STG. 1 AREA FILL 2400 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 76 CY
STG. 1 FILL VOLUME 7941 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

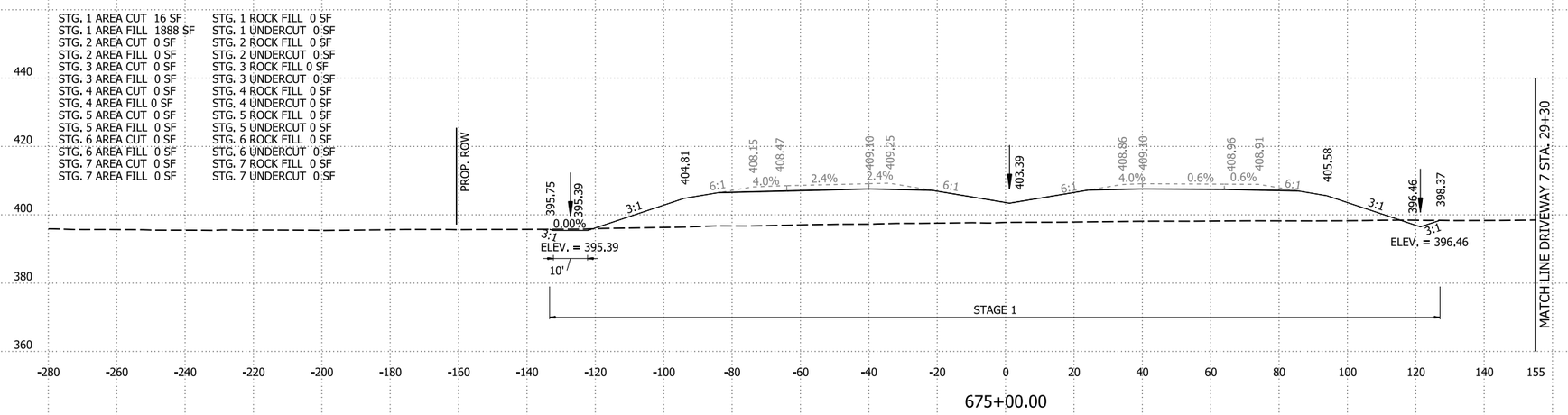


STG. 1 AREA CUT 16 SF
STG. 1 AREA FILL 1888 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 50 CY
STG. 1 FILL VOLUME 6468 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 675+00 TO STA. 677+00

4/30/2026 8:11:41 AM
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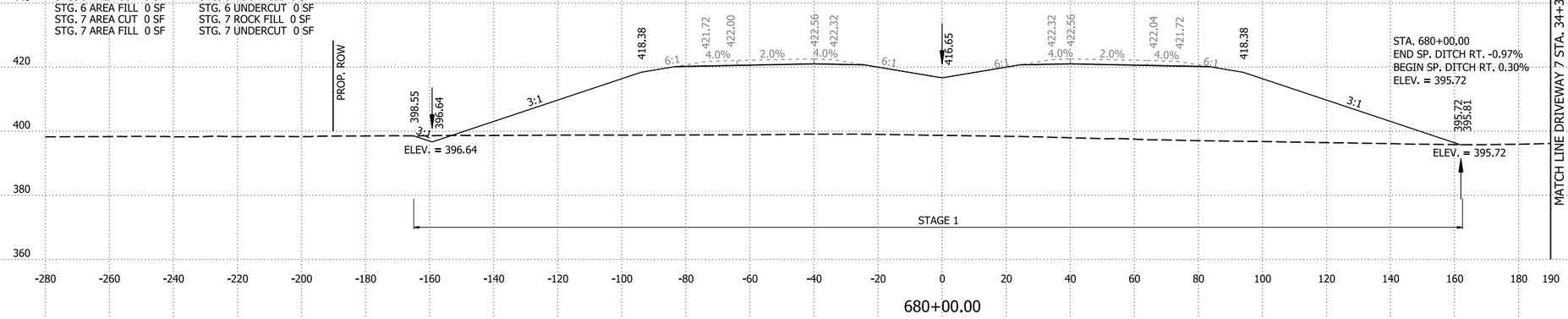
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	531	742
		CROSS SECTIONS				

STG. 1 AREA CUT 12 SF
STG. 1 AREA FILL 5376 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 40 CY
STG. 1 FILL VOLUME 18431 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



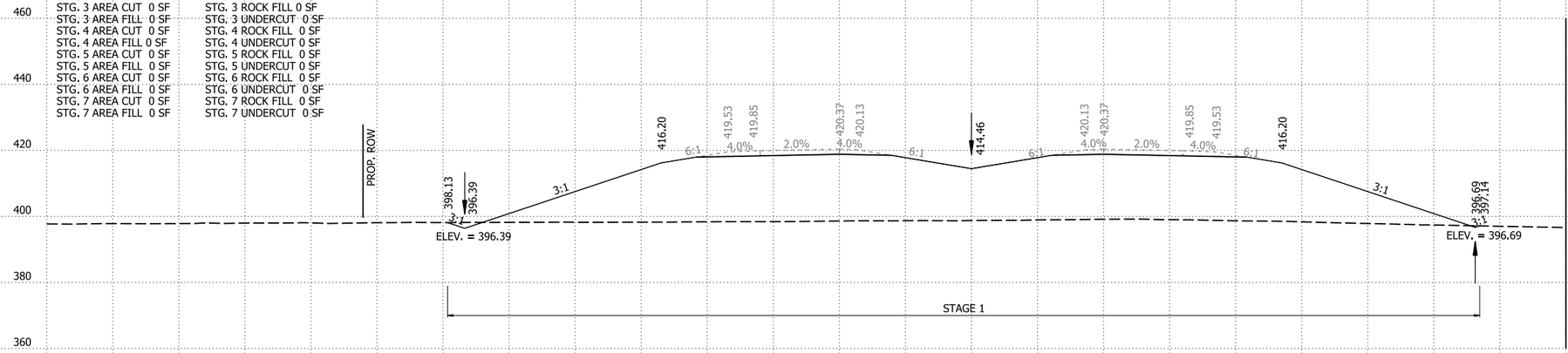
680+00.00

STG. 1 AREA CUT 10 SF
STG. 1 AREA FILL 4577 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 42 CY
STG. 1 FILL VOLUME 15552 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



679+00.00

STG. 1 AREA CUT 13 SF
STG. 1 AREA FILL 3821 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 49 CY
STG. 1 FILL VOLUME 12760 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
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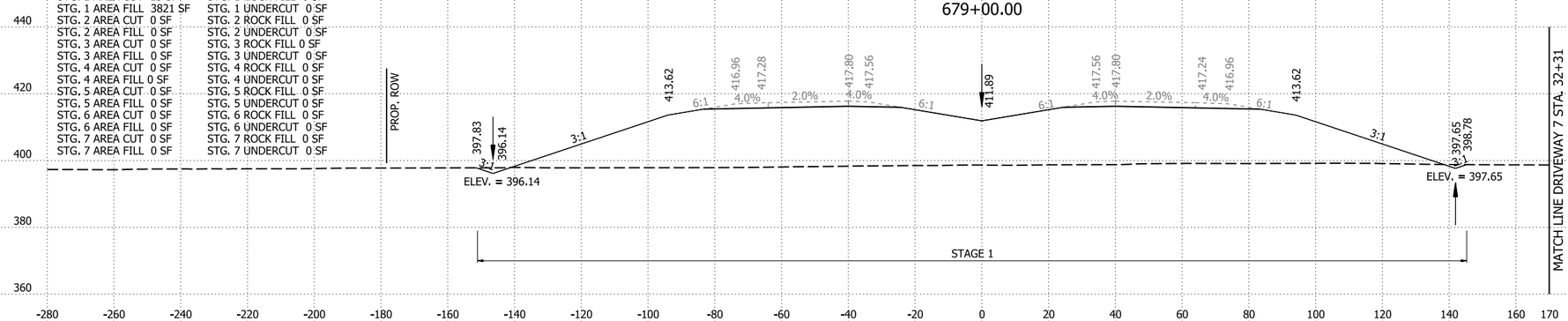
STG. 7 FILL VOLUME 0 CY



678+00.00

I-49 STA. 678+00 TO STA. 680+00

4/30/2026 8:11:48 AM
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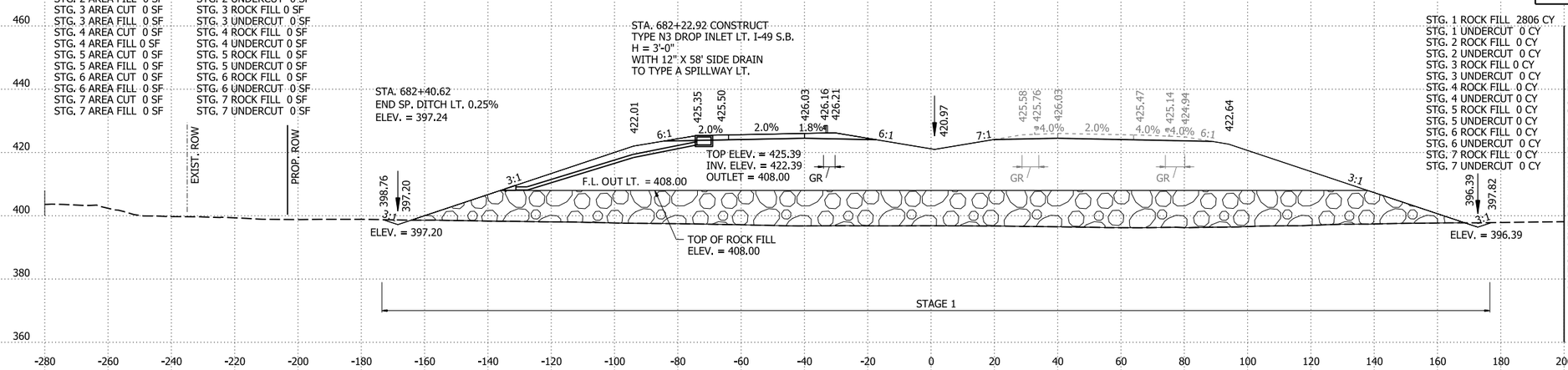
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	532	742
		CROSS SECTIONS				

STG. 1 AREA CUT 12 SF
STG. 1 AREA FILL 3566 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 3316 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



STG. 1 ROCK FILL 2806 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

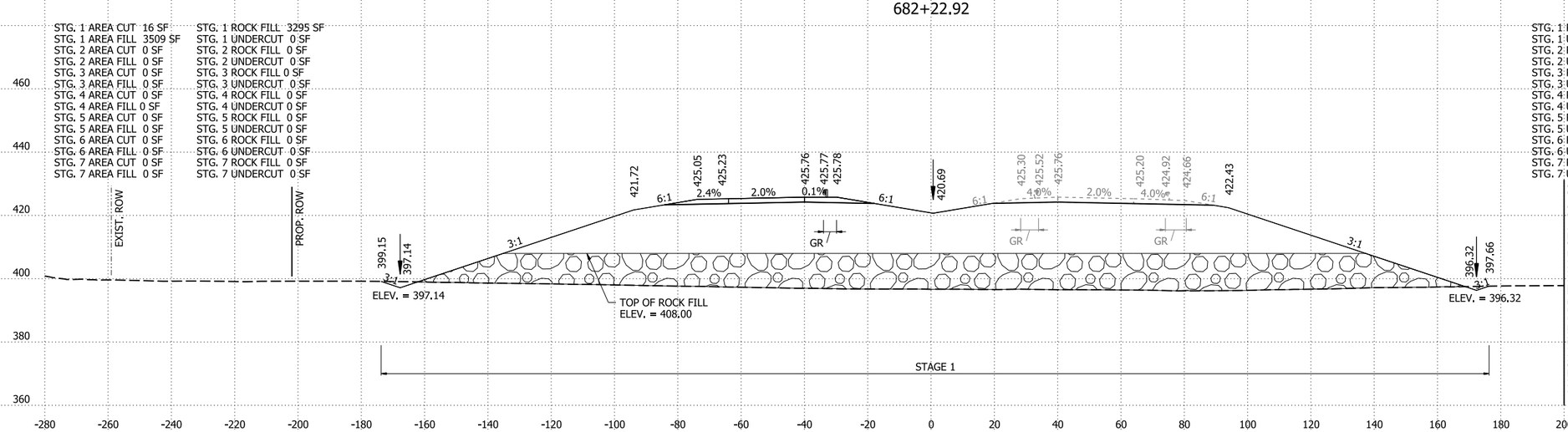
STG. 1 CUT VOLUME 12 CY
STG. 1 FILL VOLUME 3003 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

MATCH LINE DRIVEWAY 7 STA. 36+55

682+22.92

STG. 1 AREA CUT 16 SF
STG. 1 AREA FILL 3509 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 3295 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



STG. 1 ROCK FILL 5491 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

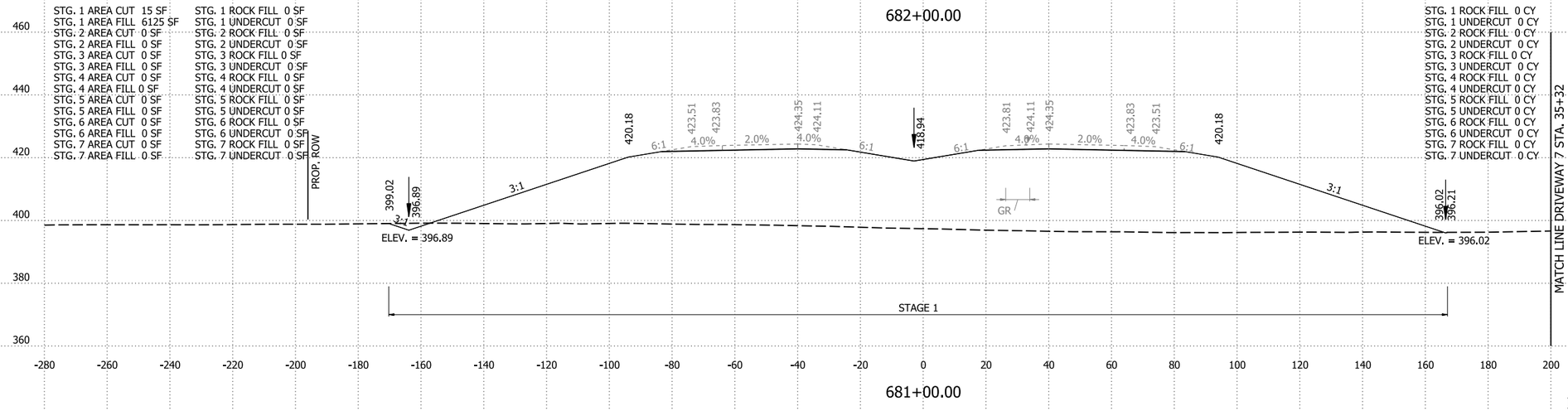
STG. 1 CUT VOLUME 57 CY
STG. 1 FILL VOLUME 17841 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

MATCH LINE DRIVEWAY 7 STA. 36+32

682+00.00

STG. 1 AREA CUT 15 SF
STG. 1 AREA FILL 6125 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 48 CY
STG. 1 FILL VOLUME 21298 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

MATCH LINE DRIVEWAY 7 STA. 35+32

681+00.00

I-49 STA. 681+00 TO STA. 682+22.92

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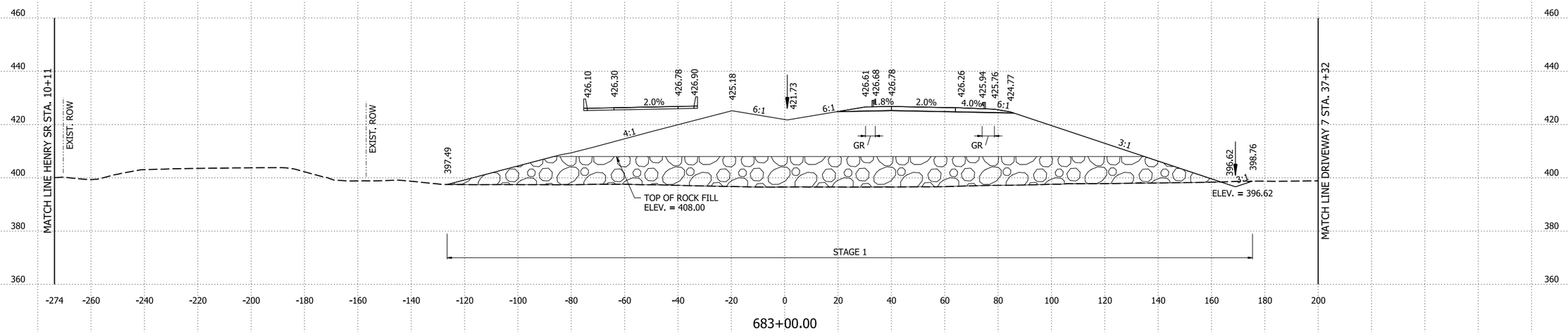
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	533	742
		CROSS SECTIONS				

STG. 1 AREA CUT 12 SF	STG. 1 ROCK FILL 2769 SF
STG. 1 AREA FILL 2688 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

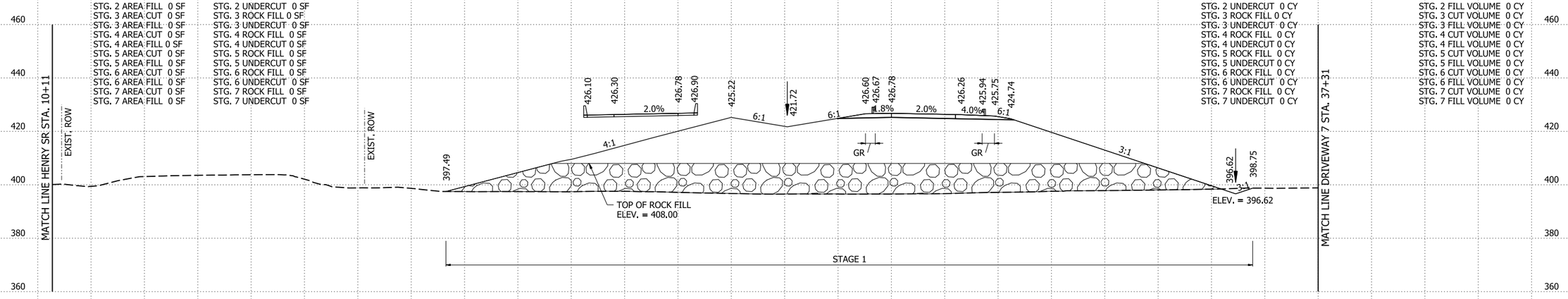
STG. 1 ROCK FILL 62 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 60 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



683+00.00

STG. 1 AREA CUT 12 SF	STG. 1 ROCK FILL 2776 SF
STG. 1 AREA FILL 2697 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 8628 CY	STG. 1 CUT VOLUME 34 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 8871 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



682+99.40
BEGIN BRIDGE A7693

I-49 STA. 682+99.40 TO STA. 683+00

4/30/2026 8:12:02 AM
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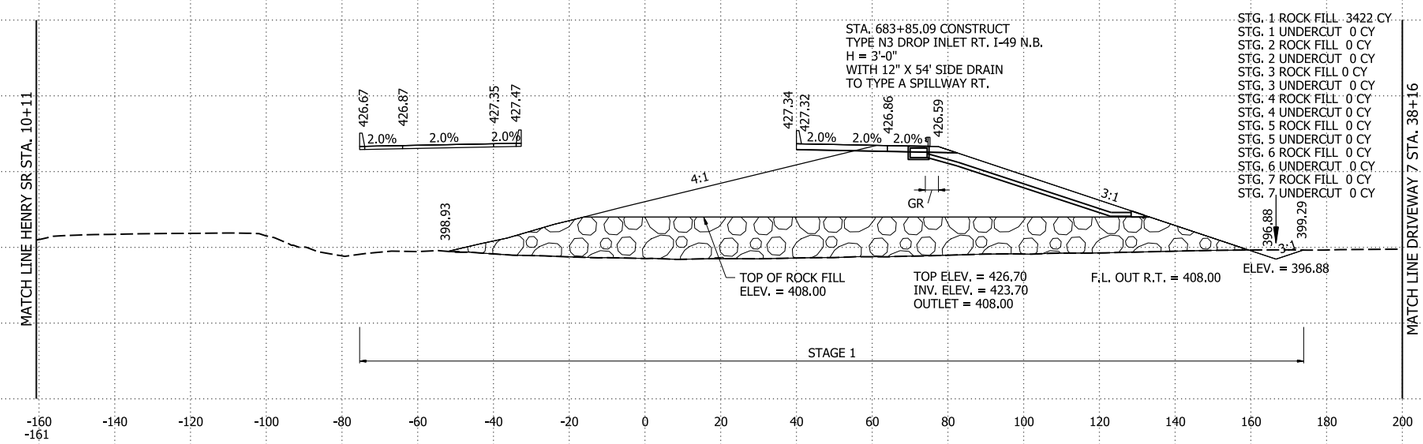
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	534	742

CROSS SECTIONS

STG. 1 AREA CUT 18 SF
STG. 1 AREA FILL 1527 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 1855 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



683+85.09

STG. 1 ROCK FILL 3422 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 27 CY
STG. 1 FILL VOLUME 3013 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 1 AREA CUT 16 SF
STG. 1 AREA FILL 2160 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 2331 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
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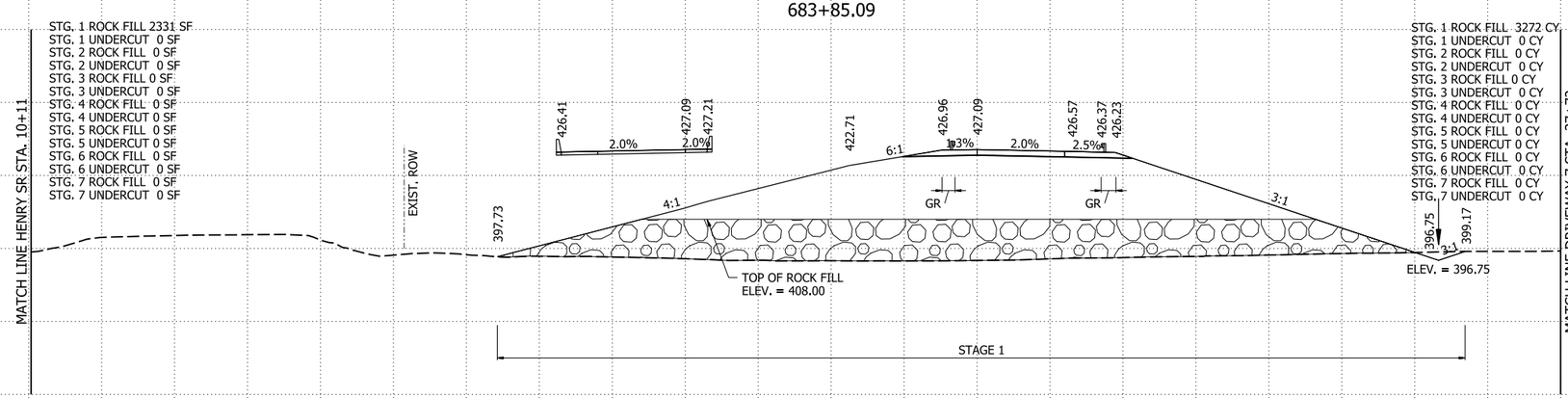
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



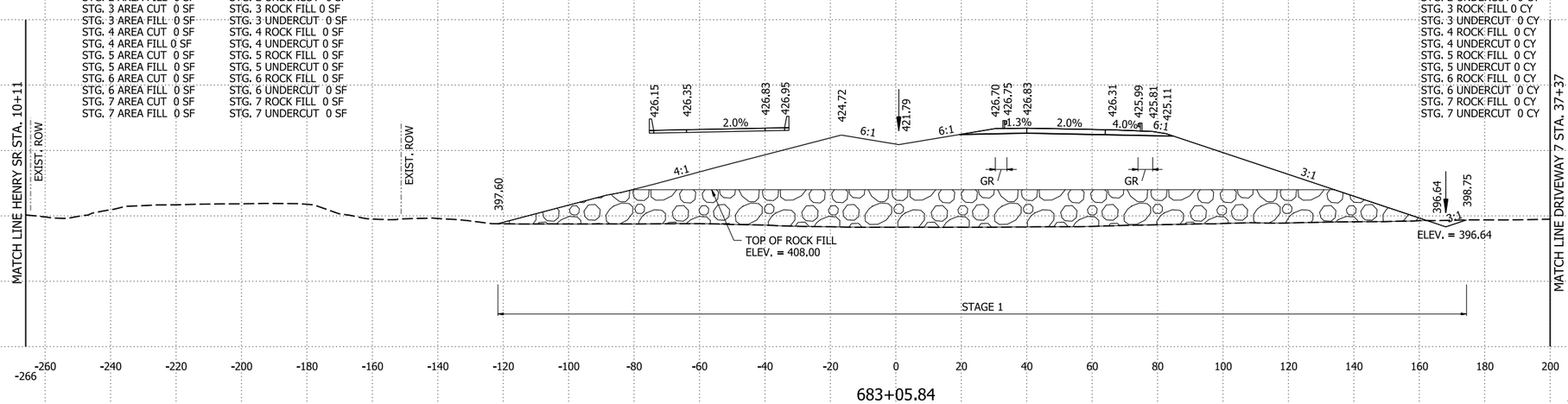
683+40.95

STG. 1 ROCK FILL 3272 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 18 CY
STG. 1 FILL VOLUME 3093 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 1 AREA CUT 12 SF
STG. 1 AREA FILL 2598 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 2701 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



683+05.84

STG. 1 ROCK FILL 592 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 3 CY
STG. 1 FILL VOLUME 572 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

I-49 STA. 683+05.84 TO STA. 683+85.09

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	535	742

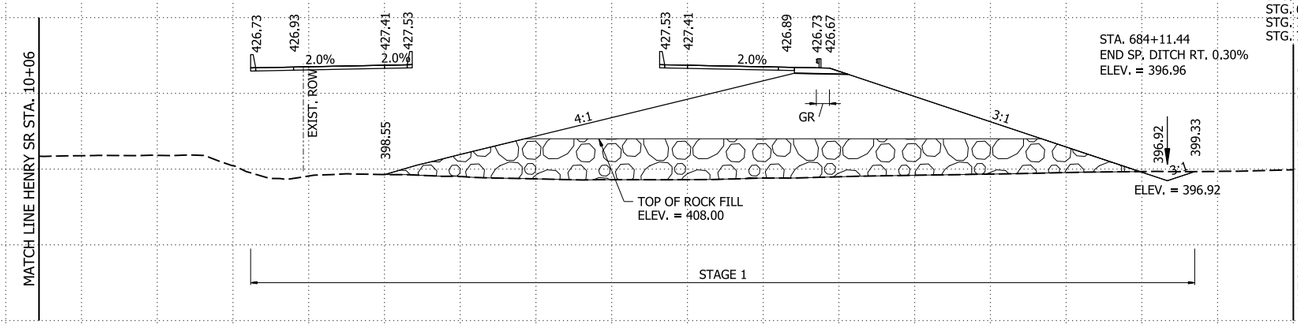
CROSS SECTIONS

STG. 1 AREA CUT 18 SF
STG. 1 AREA FILL 1294 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 1708 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 30 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 23 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



684+00.00

STG. 1 AREA CUT 17 SF
STG. 1 AREA FILL 1301 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 1713 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 528 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 5 CY
STG. 1 FILL VOLUME 411 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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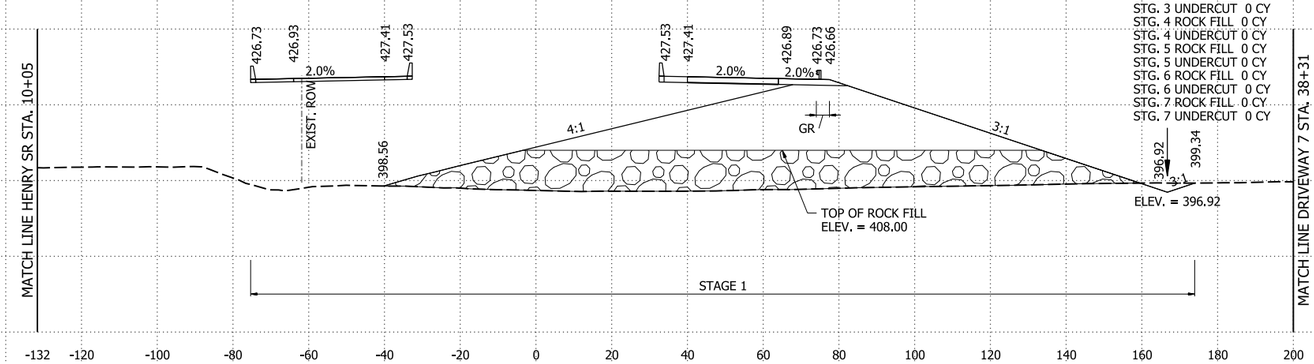

683+99.53
BRIDGE A7693 TOE OF SLOPE

STG. 1 AREA CUT 18 SF
STG. 1 AREA FILL 1428 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 1793 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 426 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 4 CY
STG. 1 FILL VOLUME 345 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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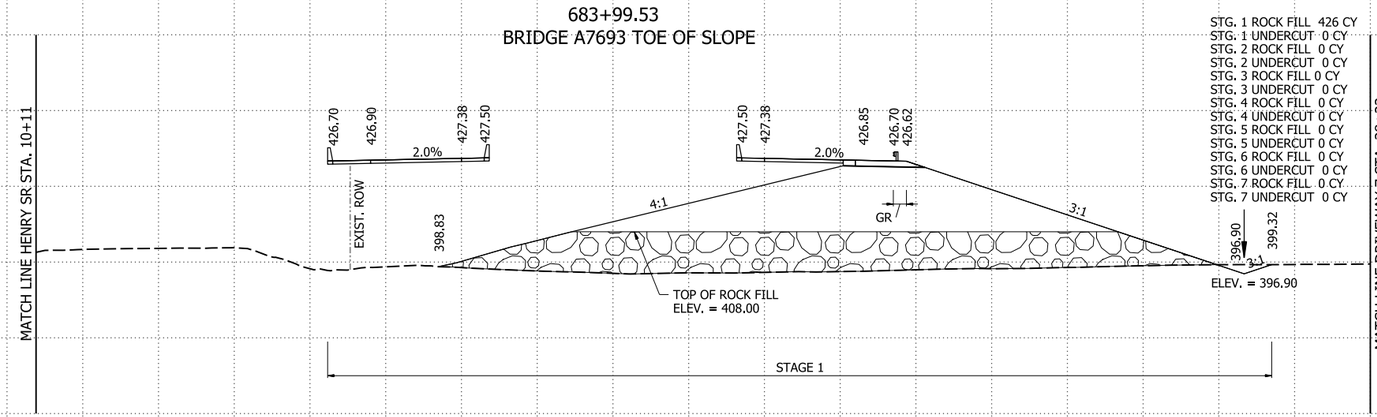
STG. 7 FILL VOLUME 0 CY



683+91.40
BEGIN BRIDGE B7693

I-49 STA. 683+91.40 TO STA. 684+00

4/30/2026 4:37:32 PM
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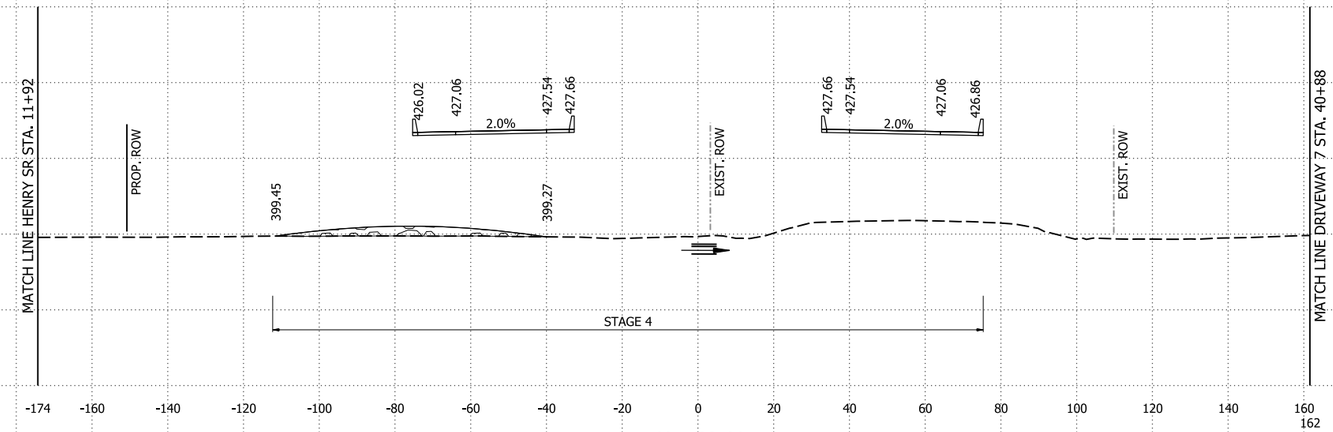
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	536	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 55 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 123 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 15 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 233 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 2647 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



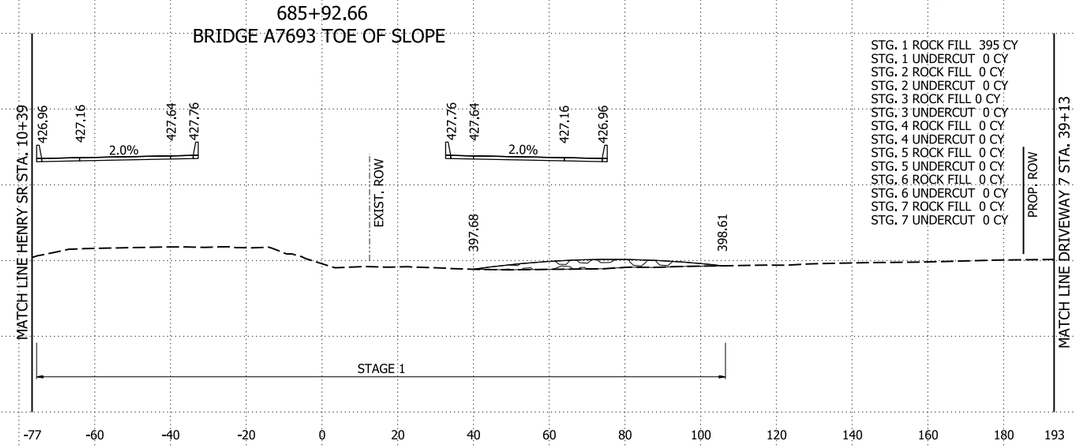
685+92.66
BRIDGE A7693 TOE OF SLOPE

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 105 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 395 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



684+82.09
BRIDGE B7693 TOE OF SLOPE

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 812 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 2764 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 19 CY
STG. 1 FILL VOLUME 1410 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
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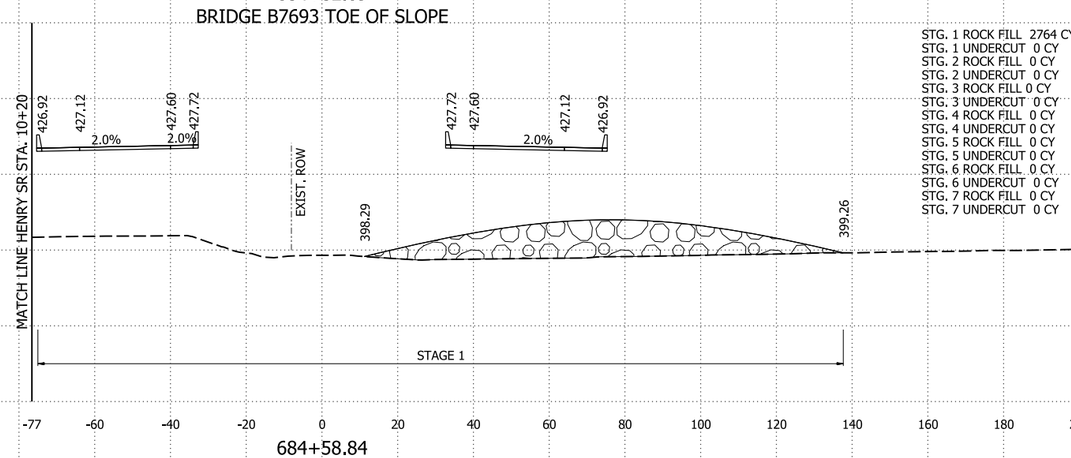
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



684+58.84

I-49 STA. 684+58.84 TO STA. 685+92.66

9/3/2026 2:22:47 PM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	537	742

CROSS SECTIONS

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 8 SF
STG. 4 AREA FILL 1603 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 1497 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 346 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 2 CY
STG. 4 FILL VOLUME 364 CY
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STG. 5 FILL VOLUME 0 CY
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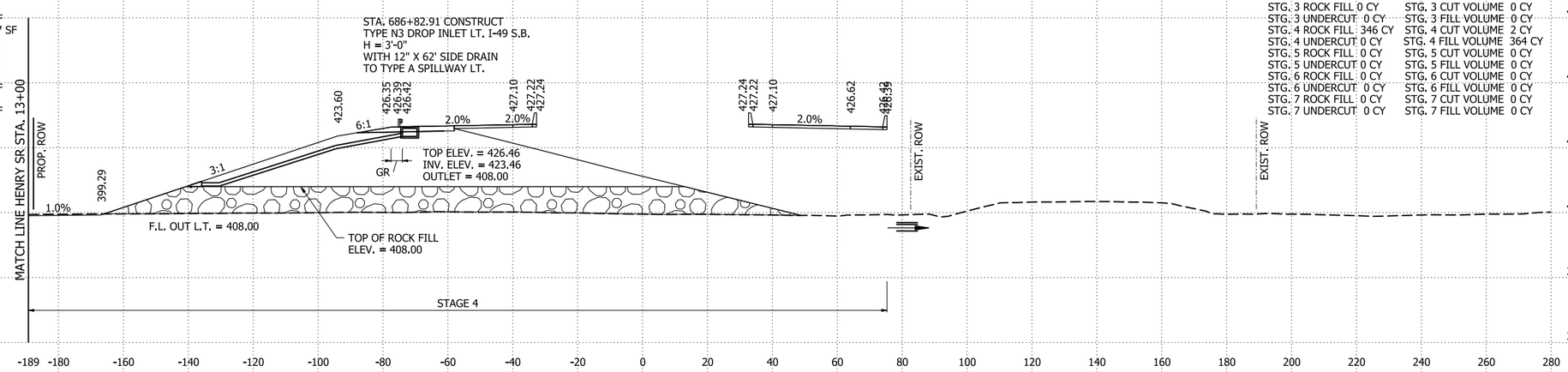
STG. 7 FILL VOLUME 0 CY



686+82.91

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 8 SF
STG. 4 AREA FILL 1512 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 1459 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 212 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 1 CY
STG. 4 FILL VOLUME 216 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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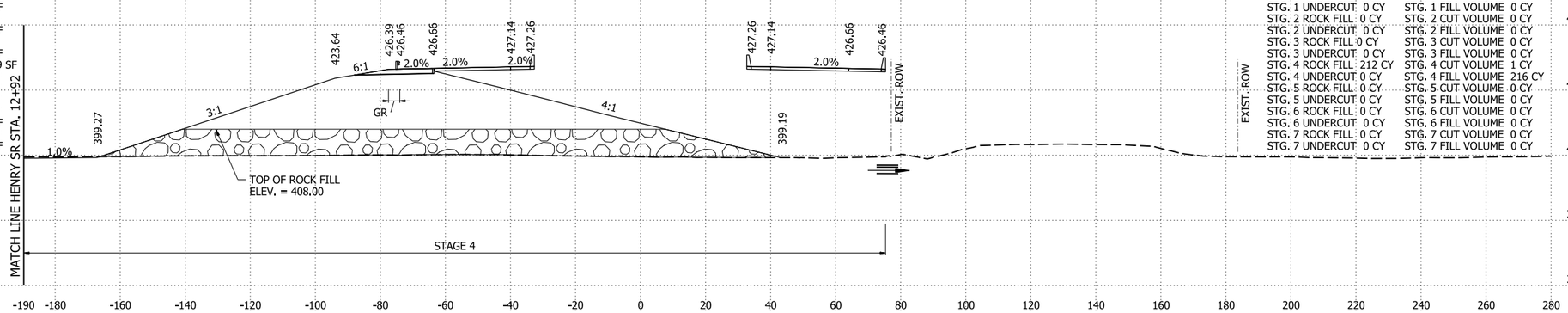
STG. 7 FILL VOLUME 0 CY



686+76.60
END BRIDGE A7693

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
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STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 8 SF
STG. 4 AREA FILL 1454 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 1441 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 2316 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 12 CY
STG. 4 FILL VOLUME 2154 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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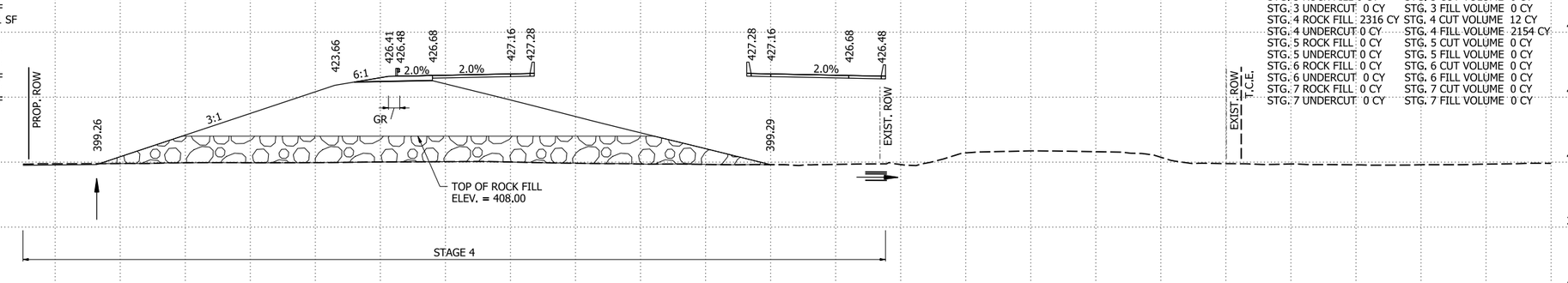

686+72.66
BRIDGE B7693 TOE OF SLOPE

I-49 STA. 686+72.66 TO STA. 686+82.91

4/30/2026 8:12:30 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	538	742

CROSS SECTIONS

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 13 SF
STG. 4 AREA FILL 2589 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 1913 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 3829 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 23 CY
STG. 4 FILL VOLUME 4885 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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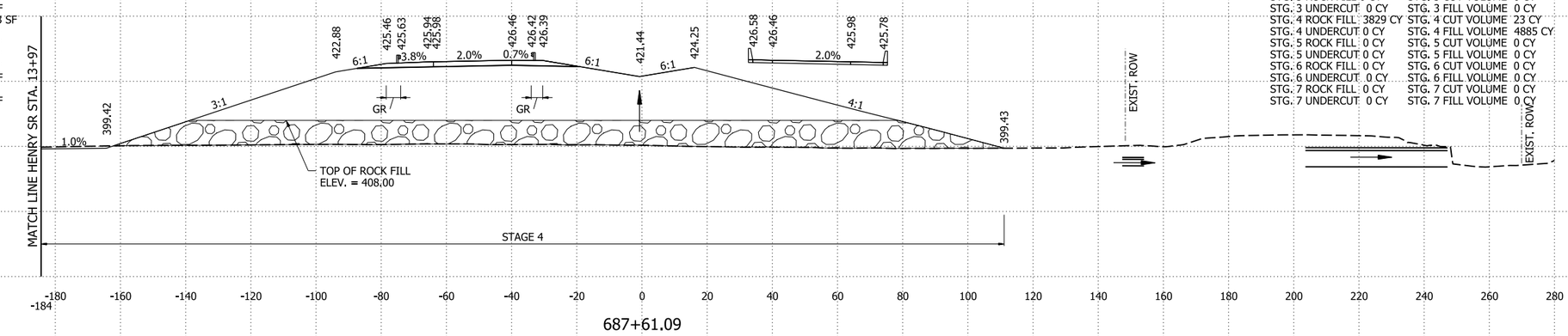
STG. 7 FILL VOLUME 0 CY



687+61.09

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 8 SF
STG. 4 AREA FILL 1877 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 1587 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 118 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 1 CY
STG. 4 FILL VOLUME 139 CY
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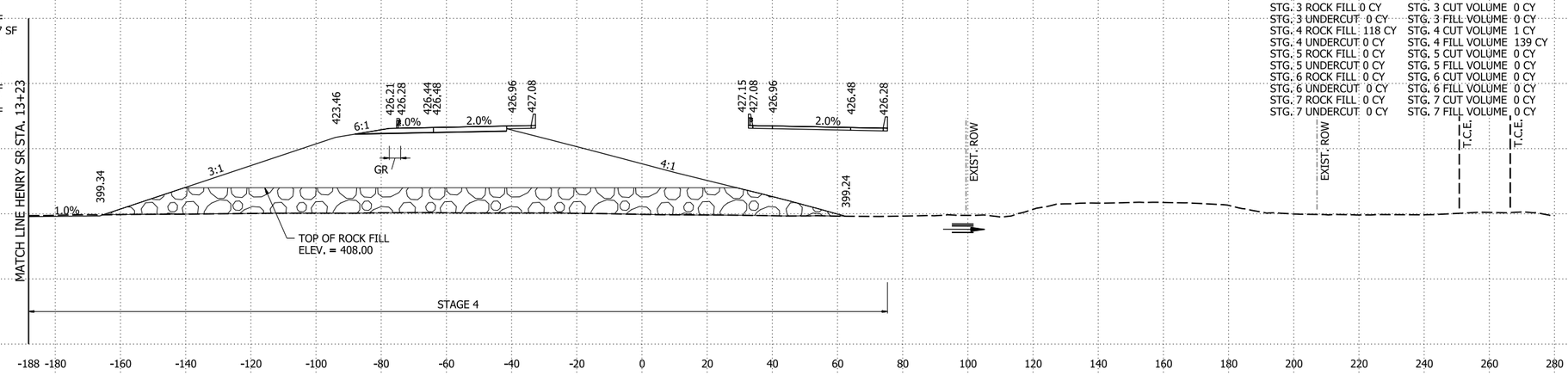
STG. 7 FILL VOLUME 0 CY



687+02.02

STG. 1 AREA CUT 0 SF
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STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 8 SF
STG. 4 AREA FILL 1847 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 1580 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 974 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 5 CY
STG. 4 FILL VOLUME 1092 CY
STG. 5 CUT VOLUME 0 CY
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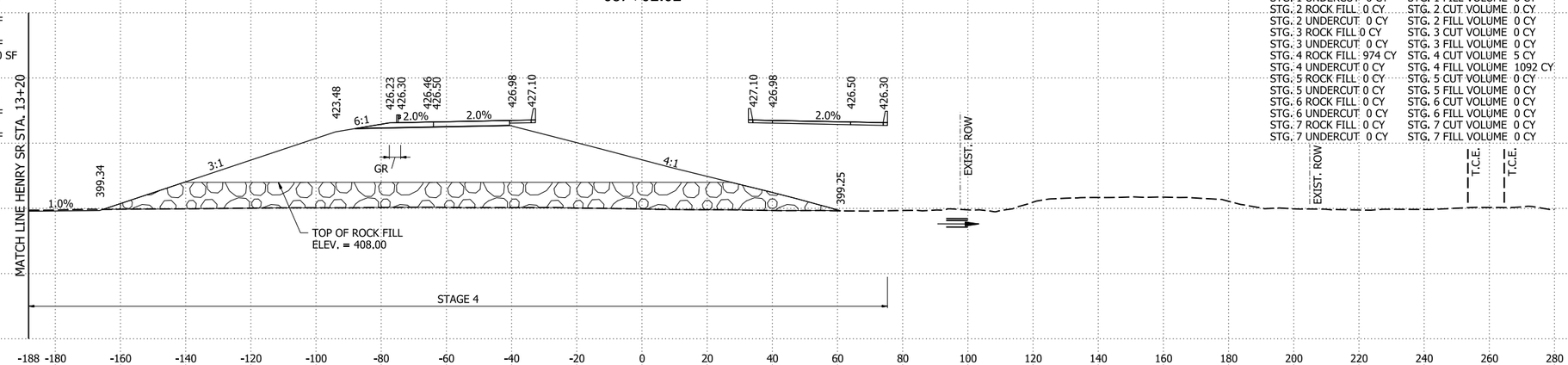
STG. 7 FILL VOLUME 0 CY



687+00.00

I-49 STA. 687+00.00 TO STA. 687+61.09

4/30/2026 8:12:38 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	539	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 70 SF
STG. 4 AREA FILL 3431 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 2352
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
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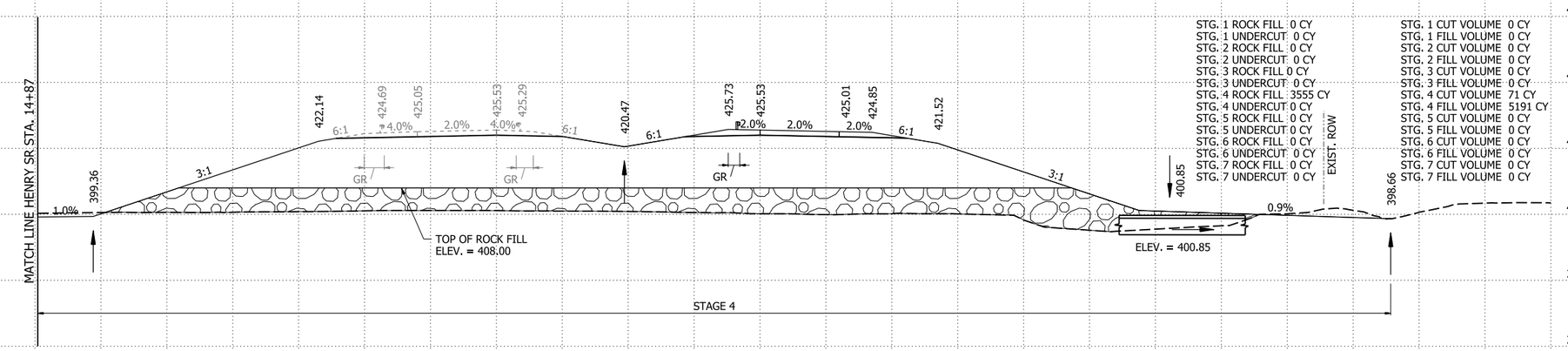
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



688+43.37

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 3555 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 71 CY
STG. 4 FILL VOLUME 5191 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 19 SF
STG. 4 AREA FILL 3033 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 2074 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
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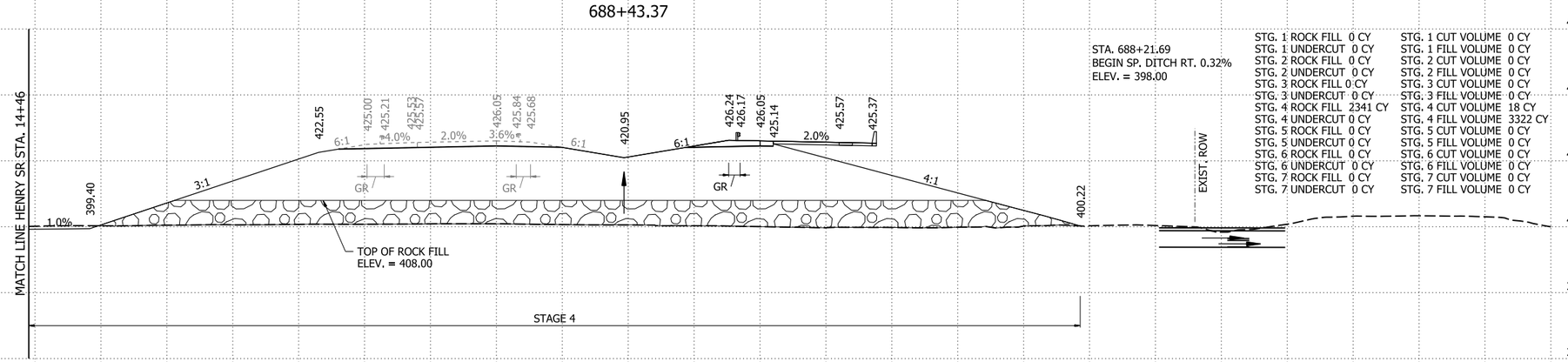
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



688+00.00

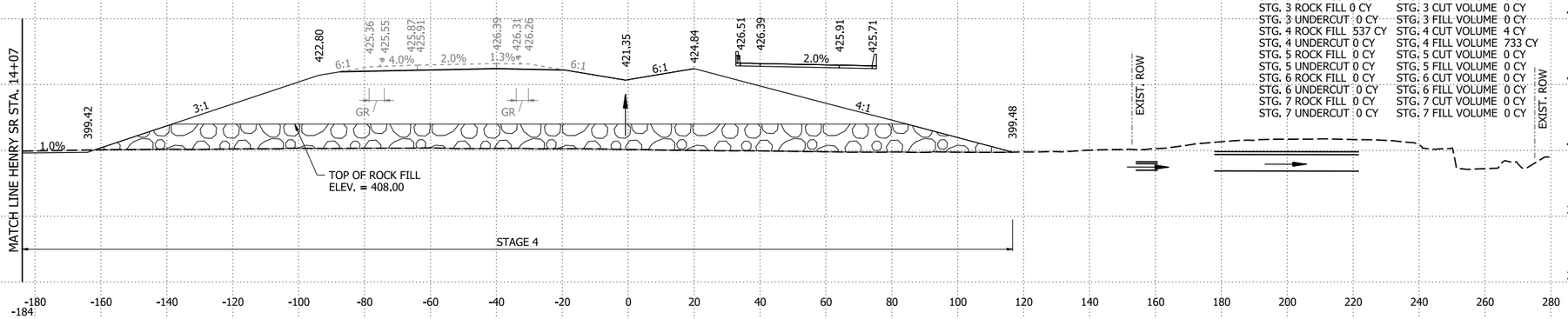
STA. 688+21.69
BEGIN SP. DITCH RT. 0.32%
ELEV. = 398.00

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 2341 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 18 CY
STG. 4 FILL VOLUME 3322 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 13 SF
STG. 4 AREA FILL 2681 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 1951 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



687+68.60
END BRIDGE B7693

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 537 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 4 CY
STG. 4 FILL VOLUME 733 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

I-49 STA. 687+68.60 TO STA. 688+43.37

4/30/2026 8:12:45 AM
R040904_22_CX.dgn

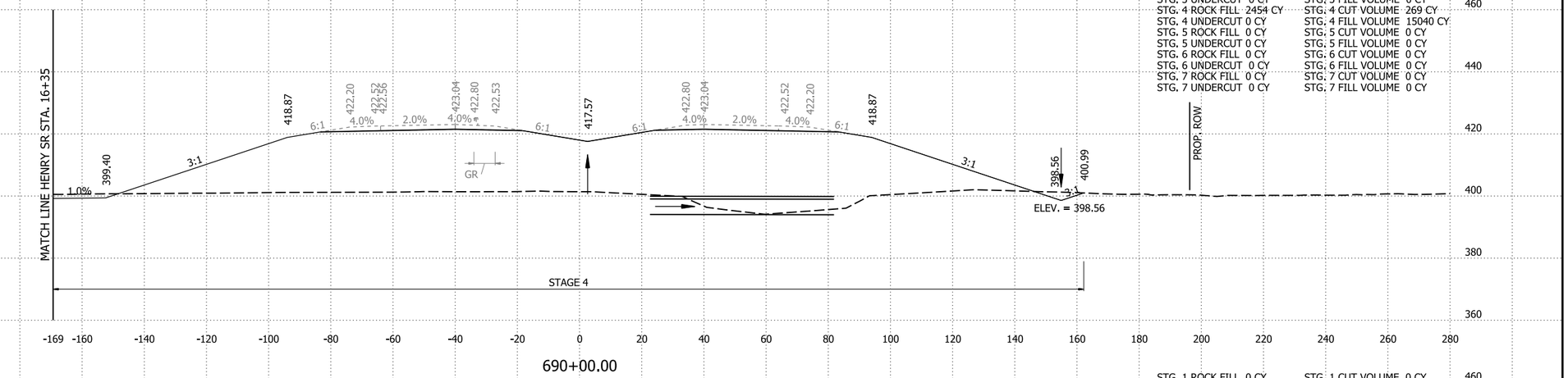
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	540	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 46 SF
STG. 4 AREA FILL 4912 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 2454 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 269 CY
STG. 4 FILL VOLUME 15040 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



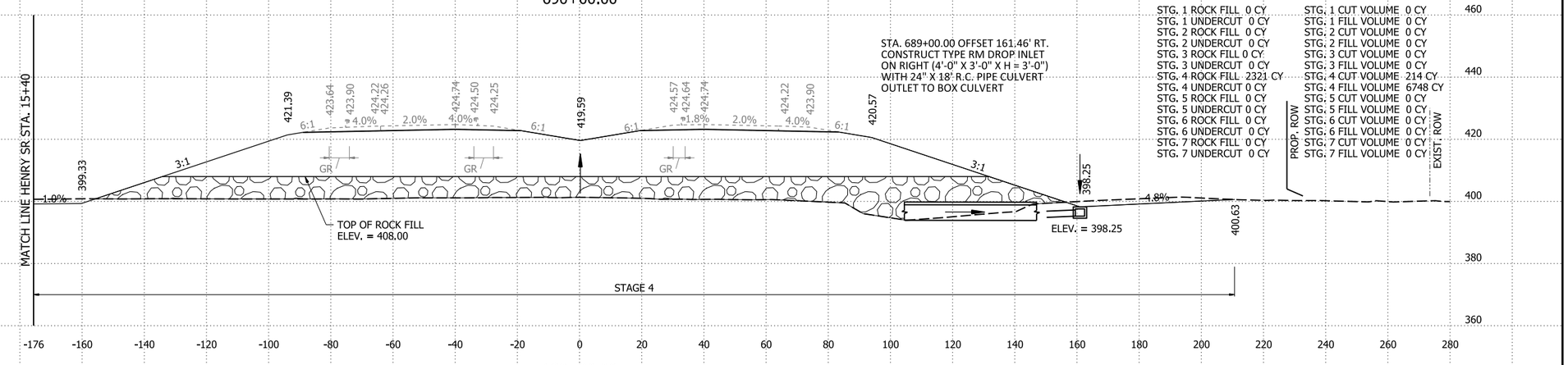
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 99 SF
STG. 4 AREA FILL 3210 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 2208 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 689+00.00 OFFSET 161.46' RT.
CONSTRUCT TYPE RM DROP INLET
ON RIGHT (4'-0" X 3'-0" X H = 3'-0")
WITH 24" X 18' R.C. PIPE CULVERT
OUTLET TO BOX CULVERT

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 2321 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 214 CY
STG. 4 FILL VOLUME 6748 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



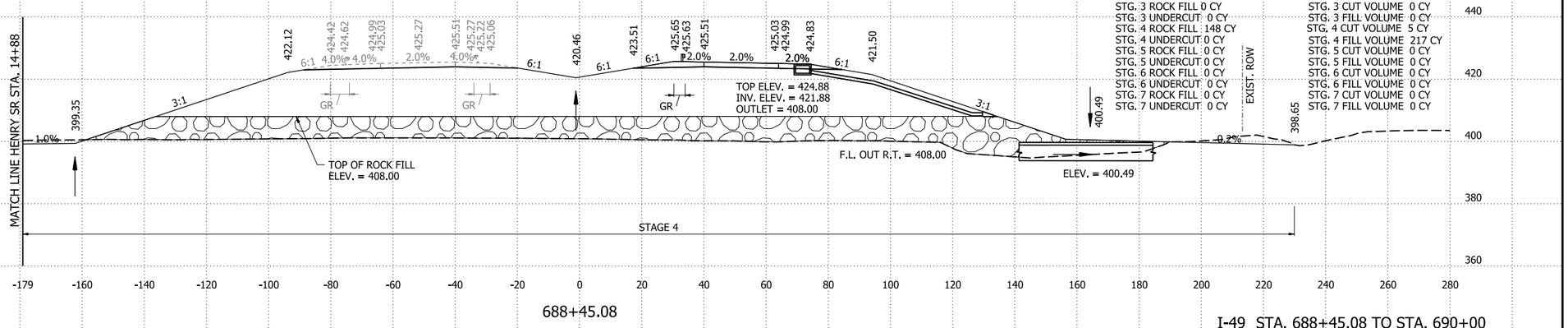
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 74 SF
STG. 4 AREA FILL 3425 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 2321 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 688+45.08 CONSTRUCT
TYPE N3 DROP INLET I-49 N.B.
H = 3'-0"
WITH 12" X 56' SIDE DRAIN
TO TYPE A SPILLWAY RT.

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 148 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 5 CY
STG. 4 FILL VOLUME 217 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 688+45.08 TO STA. 690+00

9/3/2026 2:22:50 PM
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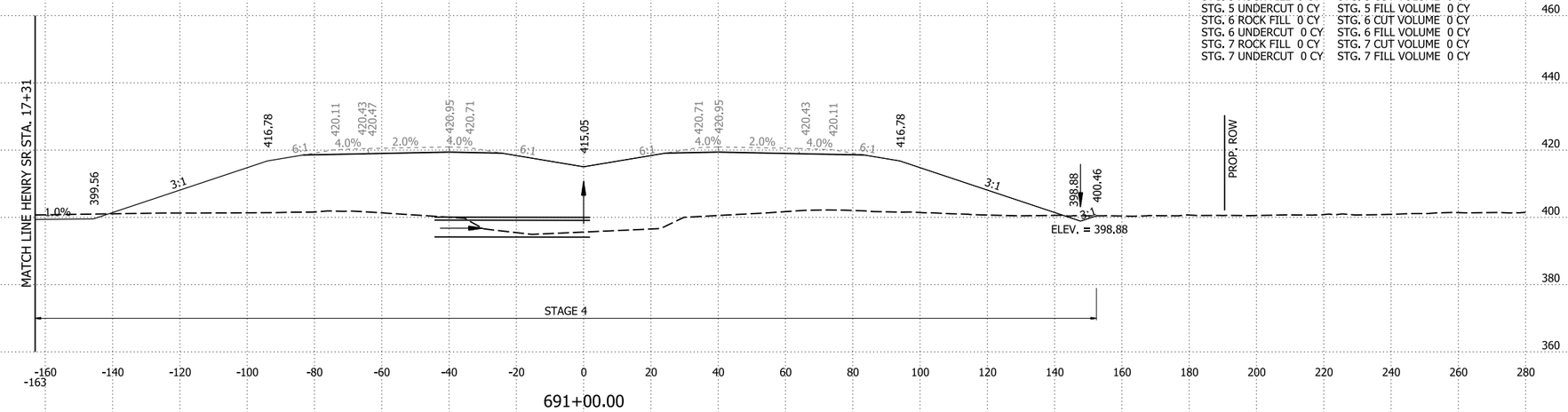
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	541	742
		CROSS SECTIONS				

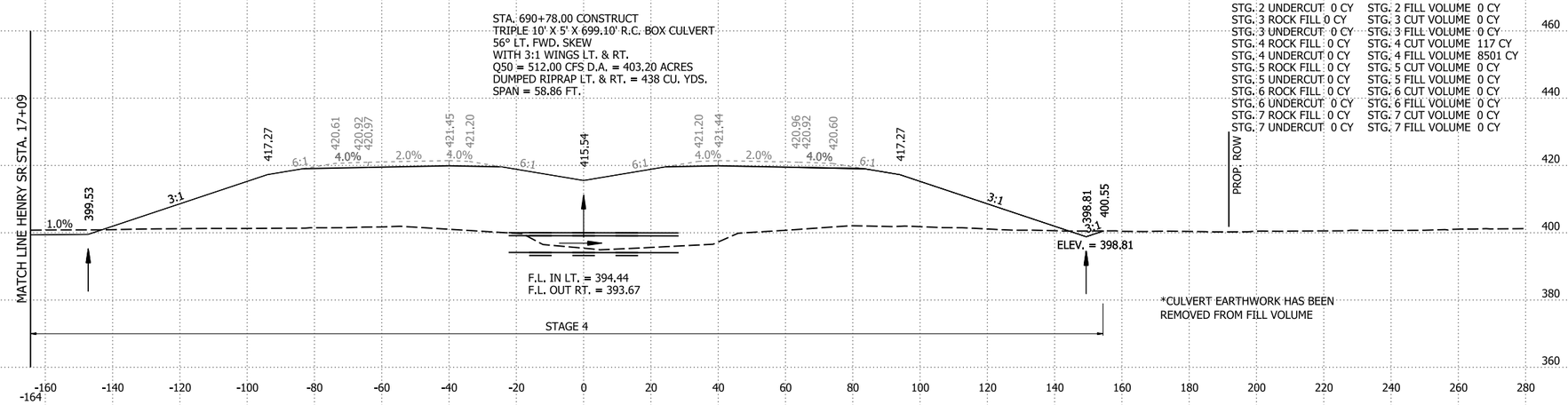
STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 35 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 4278 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 28 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 3542 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 35 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 4415 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 117 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 8501 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



I-49 STA. 690+78.00 TO STA. 691+00

4/30/2026 8:13:00 AM
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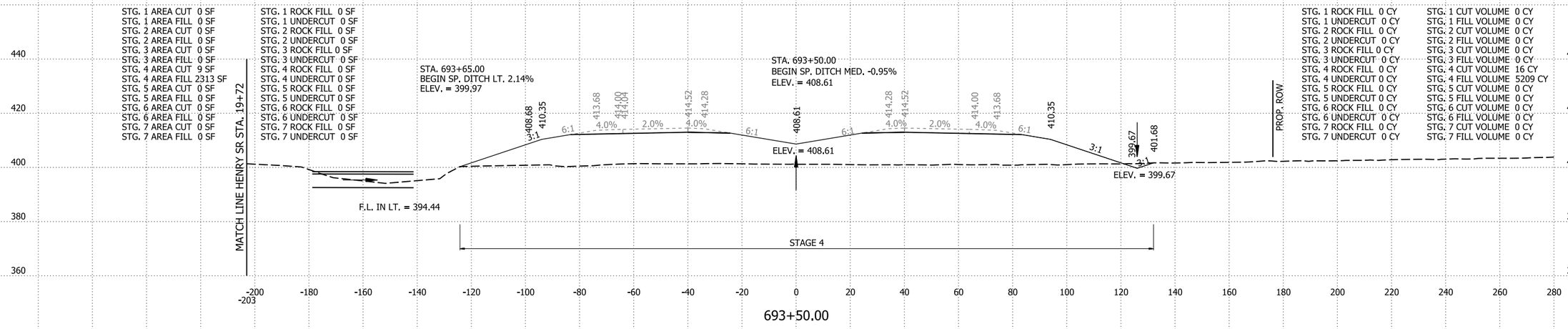
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	542	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 9 SF
STG. 4 AREA FILL 2313 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 16 CY
STG. 4 FILL VOLUME 5209 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 8 SF
STG. 4 AREA FILL 3313 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 156 CY
STG. 4 FILL VOLUME 12950 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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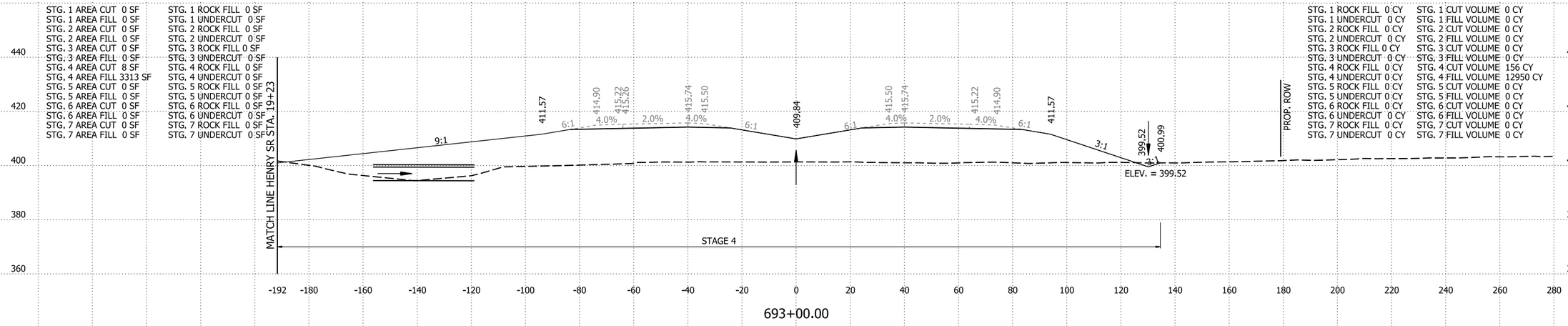
STG. 7 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 77 SF
STG. 4 AREA FILL 3680 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 206 CY
STG. 4 FILL VOLUME 14738 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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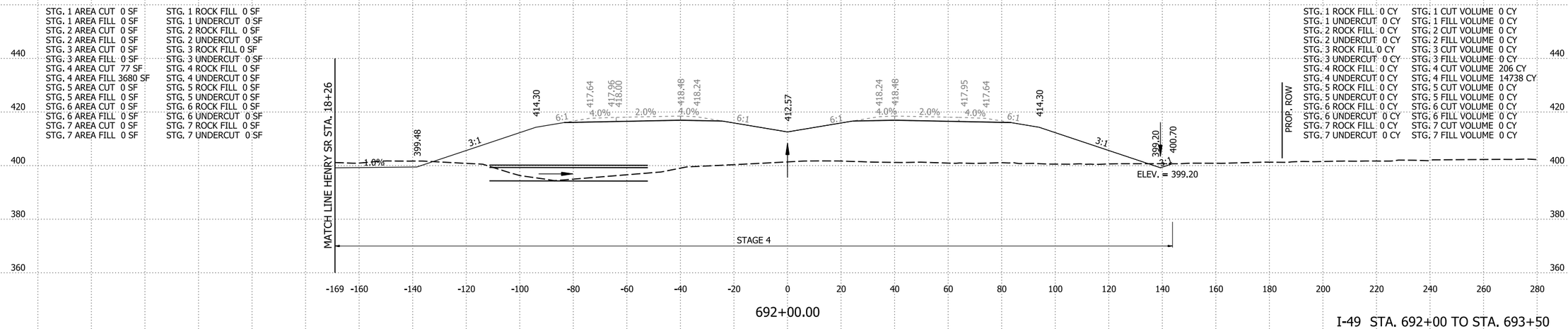
STG. 7 FILL VOLUME 0 CY



I-49 STA. 692+00 TO STA. 693+50

4/30/2026 8:13:07 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	543	742

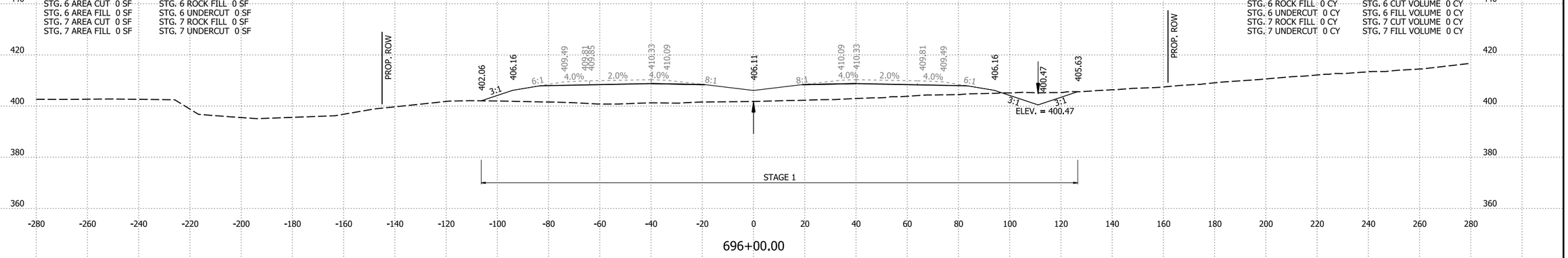
CROSS SECTIONS

STG. 1 AREA CUT 70 SF
STG. 1 AREA FILL 1098 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 161 CY
STG. 1 FILL VOLUME 4948 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

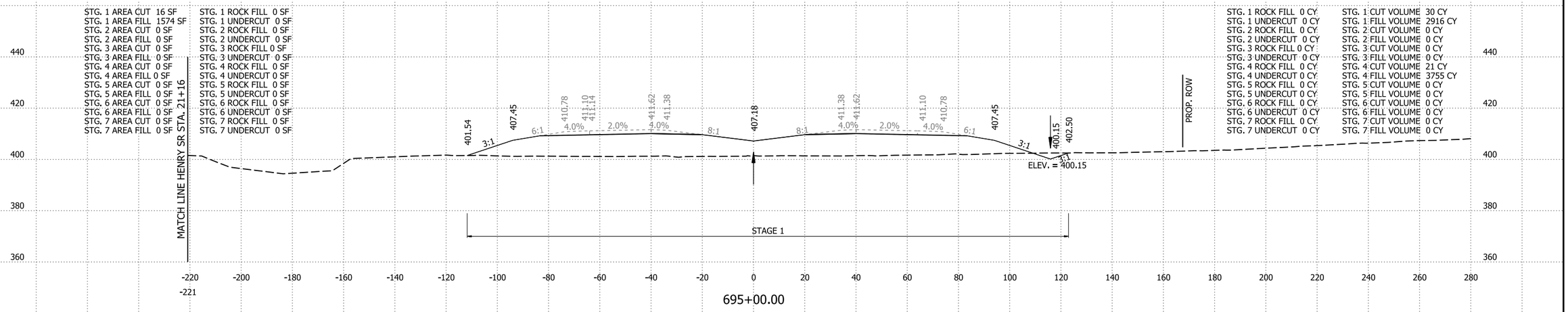


STG. 1 AREA CUT 16 SF
STG. 1 AREA FILL 1574 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 30 CY
STG. 1 FILL VOLUME 2916 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 21 CY
STG. 4 FILL VOLUME 3755 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

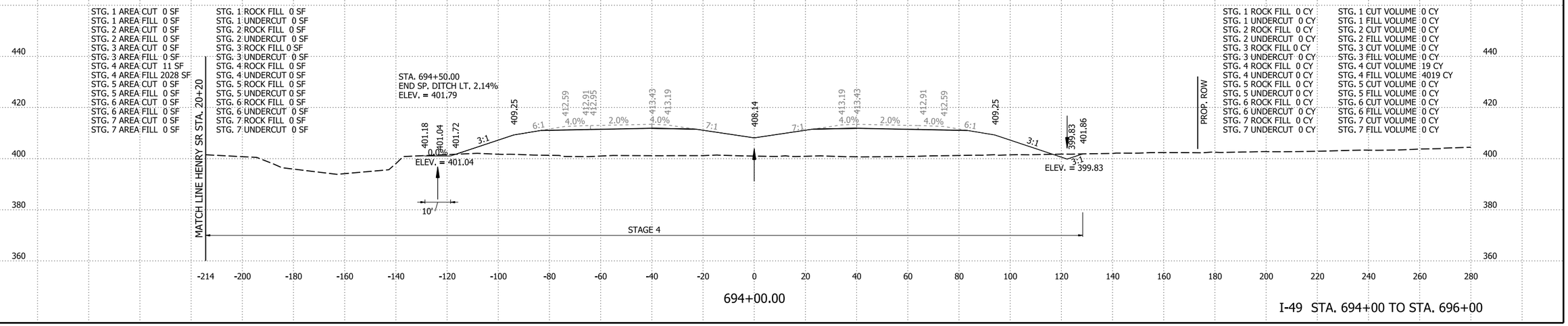


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 11 SF
STG. 4 AREA FILL 2028 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 19 CY
STG. 4 FILL VOLUME 4019 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 694+00 TO STA. 696+00

4/30/2026 8:13:14 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	544	742
		CROSS SECTIONS				

STG. 1 AREA CUT 444 SF
STG. 1 AREA FILL 346 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

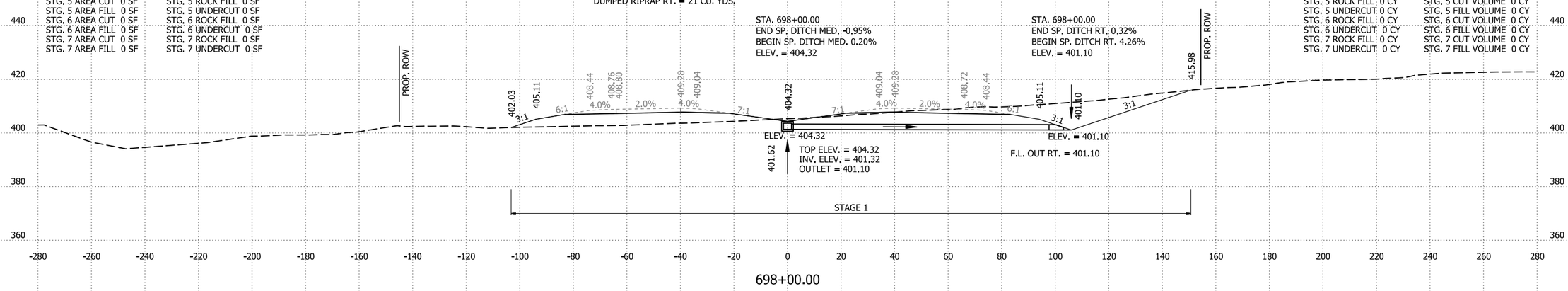
STA. 698+00.00 CONSTRUCT
TYPE RM DROP INLET
IN MEDIAN (4'-0" X 3'-0" X H = 3'-0")
WITH 24" X 96' R.C. PIPE OUTLET
TO FES RT.
(CLASS III)(TYPE 3 BEDDING)
24" FES = 1 EACH
DUMPED RIPRAP RT. = 21 CU. YDS.

STA. 698+00.00
END SP. DITCH MED. -0.95%
BEGIN SP. DITCH MED. 0.20%
ELEV. = 404.32

STA. 698+00.00
END SP. DITCH RT. 0.32%
BEGIN SP. DITCH RT. 4.26%
ELEV. = 401.10

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1225 CY
STG. 1 FILL VOLUME 2026 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

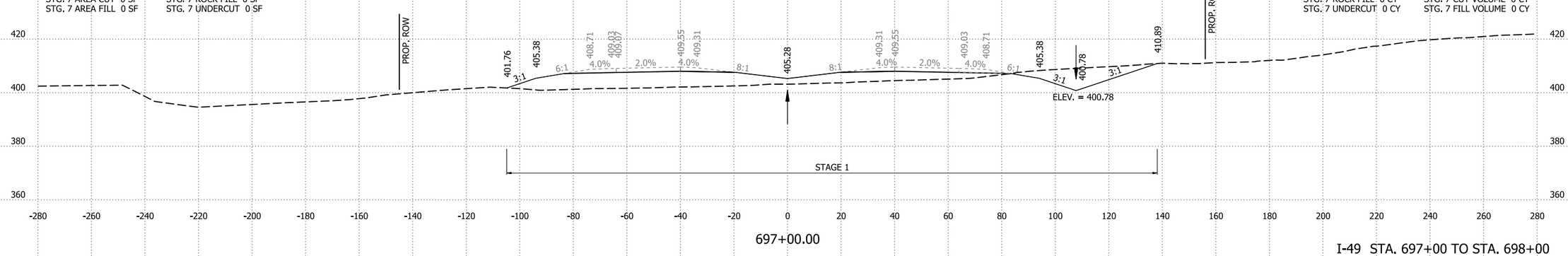


STG. 1 AREA CUT 217 SF
STG. 1 AREA FILL 748 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 532 CY
STG. 1 FILL VOLUME 3418 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 697+00 TO STA. 698+00

4/30/2026 8:13:22 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	545	742

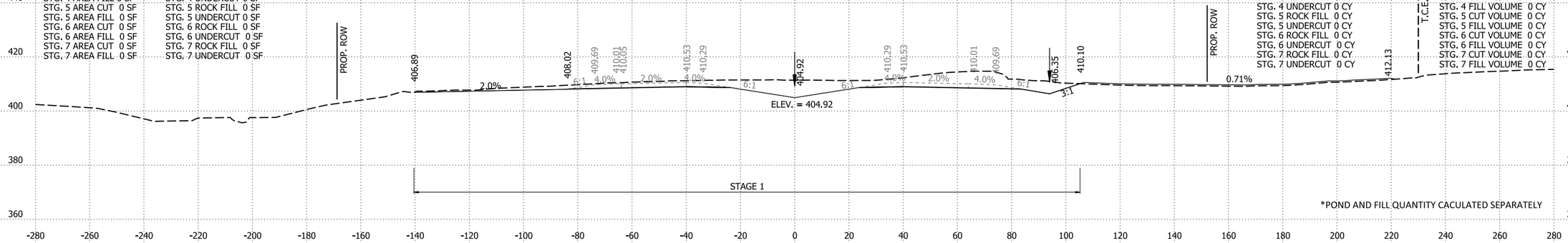
CROSS SECTIONS

STG. 1 AREA CUT 724 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1724 CY
STG. 1 FILL VOLUME 249 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



*POND AND FILL QUANTITY CACULATED SEPARATELY

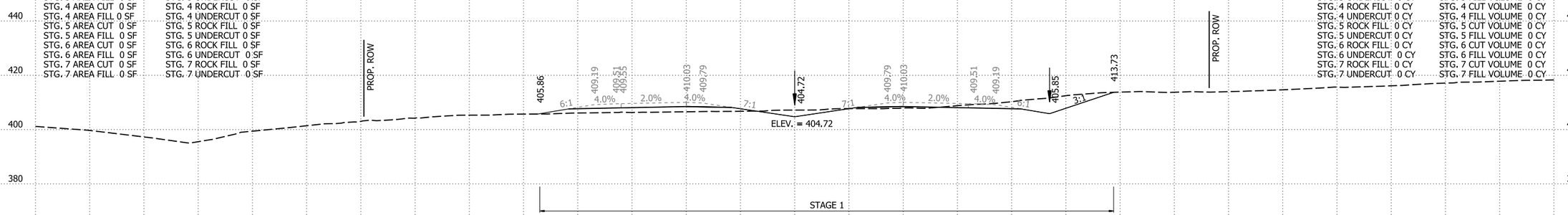
701+00.00

STG. 1 AREA CUT 207 SF
STG. 1 AREA FILL 135 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1015 CY
STG. 1 FILL VOLUME 668 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



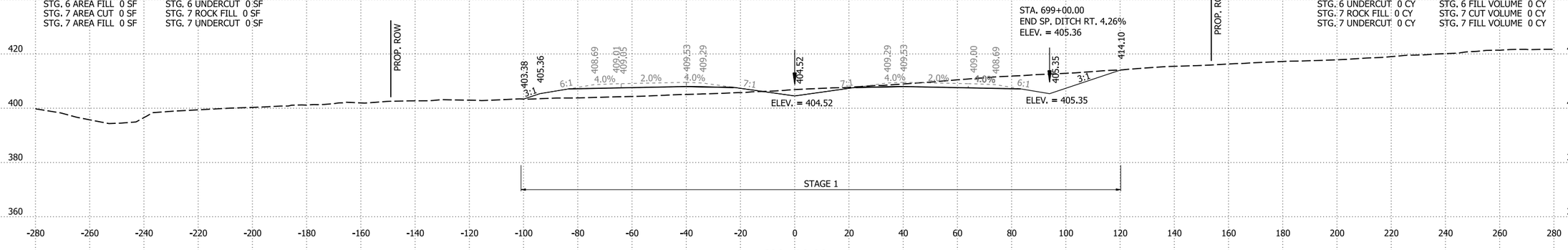
700+00.00

STG. 1 AREA CUT 341 SF
STG. 1 AREA FILL 226 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1454 CY
STG. 1 FILL VOLUME 1060 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



699+00.00

I-49 STA. 699+00 TO STA. 701+00

4/30/2026 8:13:29 AM
R040904_22_CX.dgn

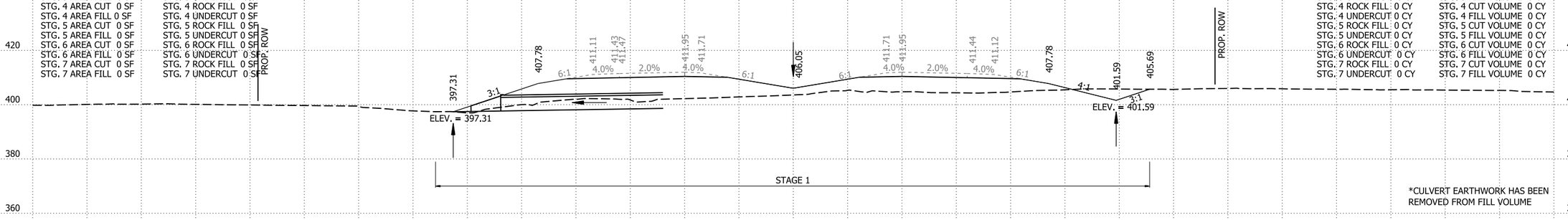
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	546	742
		CROSS SECTIONS				

STG. 1 AREA CUT 64 SF
STG. 1 AREA FILL 1252 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 658 CY
STG. 1 FILL VOLUME 1879 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



*CULVERT EARTHWORK HAS BEEN REMOVED FROM FILL VOLUME

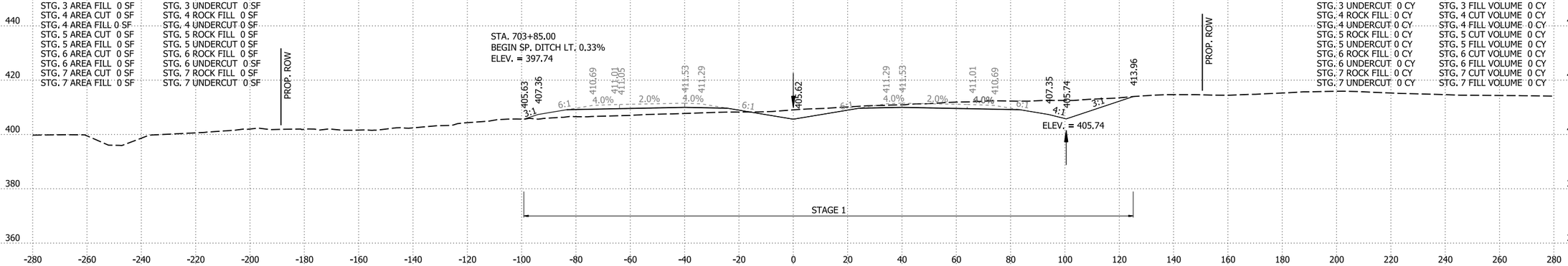
703+85.24

STG. 1 AREA CUT 352 SF
STG. 1 AREA FILL 170 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 3257 CY
STG. 1 FILL VOLUME 314 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



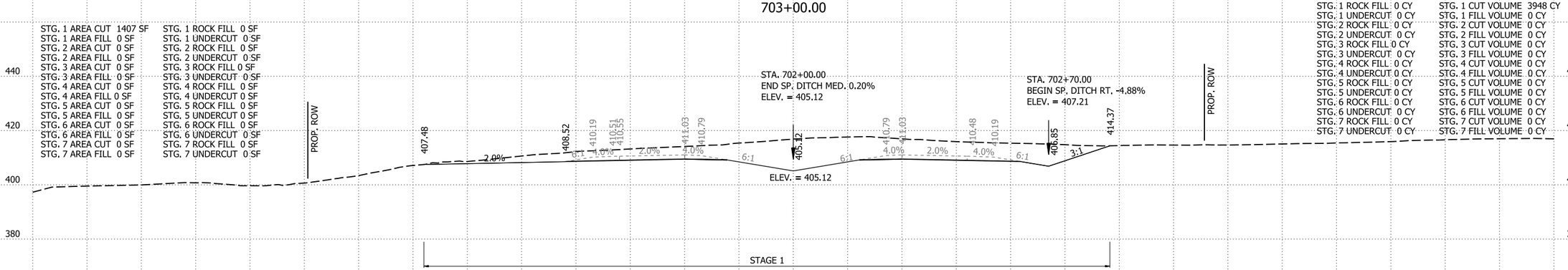
703+00.00

STG. 1 AREA CUT 1407 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 3948 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



702+00.00

I-49 STA. 702+00 TO STA. 703+85.24

4/30/2026 8:13:35 AM
R040904_22_CX.dgn

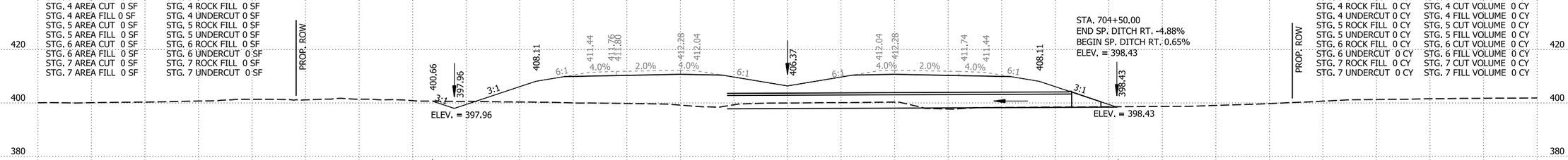
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	547	742
		CROSS SECTIONS				

STG. 1 AREA CUT 21 SF
STG. 1 AREA FILL 2169 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 44 CY
STG. 1 FILL VOLUME 1873 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



*CULVERT EARTHWORK HAS BEEN REMOVED FROM FILL VOLUME

704+50.00

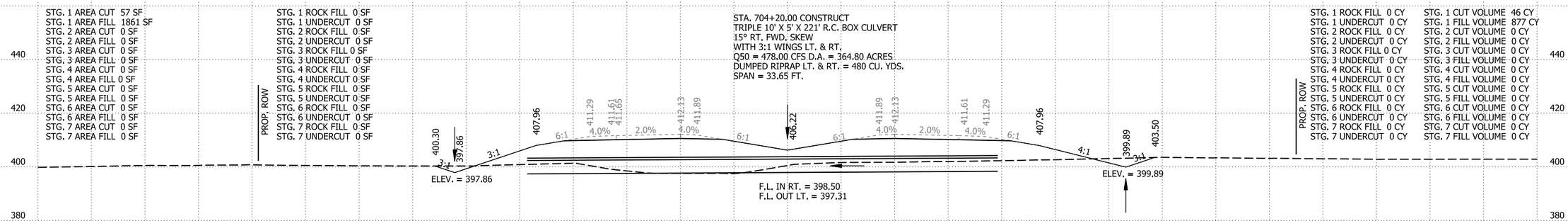
STG. 1 AREA CUT 57 SF
STG. 1 AREA FILL 1861 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 704+20.00 CONSTRUCT
TRIPLE 10' X 5' X 221' R.C. BOX CULVERT
15° RT, FWD, SKEW
WITH 3:1 WINGS LT. & RT,
Q50 = 478.00 CFS D.A. = 364.80 ACRES
DUMPED RIPRAP LT. & RT. = 480 CU. YDS.
SPAN = 33.65 FT.

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 46 CY
STG. 1 FILL VOLUME 877 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



*CULVERT EARTHWORK HAS BEEN REMOVED FROM FILL VOLUME

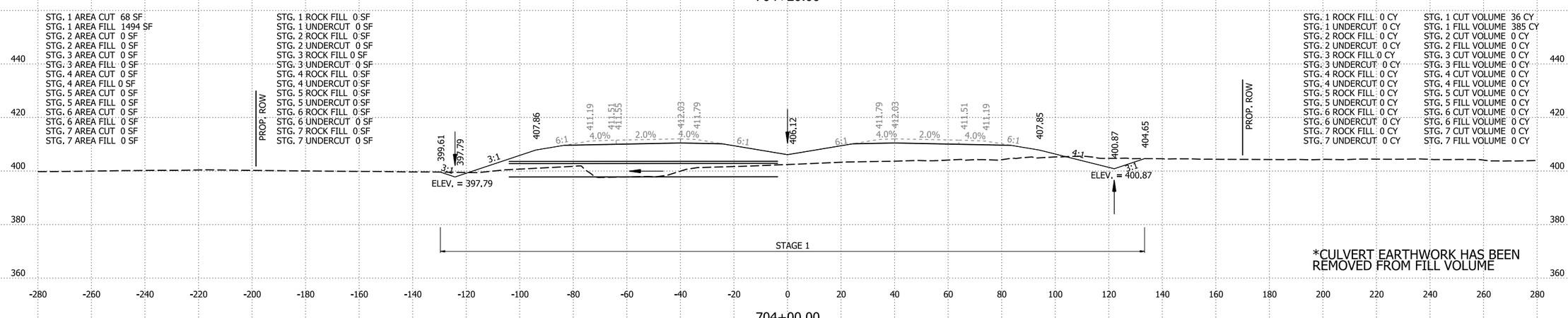
704+20.00

STG. 1 AREA CUT 68 SF
STG. 1 AREA FILL 1494 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 36 CY
STG. 1 FILL VOLUME 385 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



*CULVERT EARTHWORK HAS BEEN REMOVED FROM FILL VOLUME

704+00.00

I-49 STA. 704+00 TO STA. 704+50

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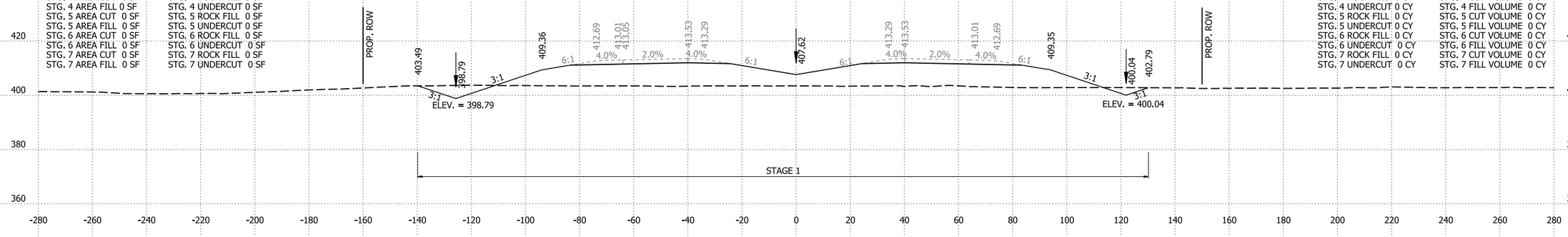
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	548	742
		CROSS SECTIONS				

STG. 1 AREA CUT 92 SF
STG. 1 AREA FILL 1545 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 318 CY
STG. 1 FILL VOLUME 5970 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

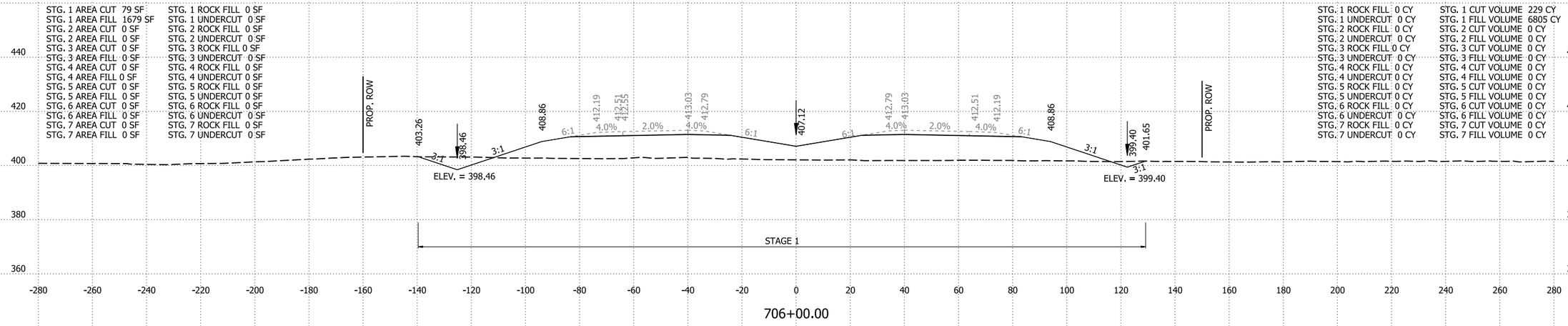


STG. 1 AREA CUT 79 SF
STG. 1 AREA FILL 1679 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 229 CY
STG. 1 FILL VOLUME 6805 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

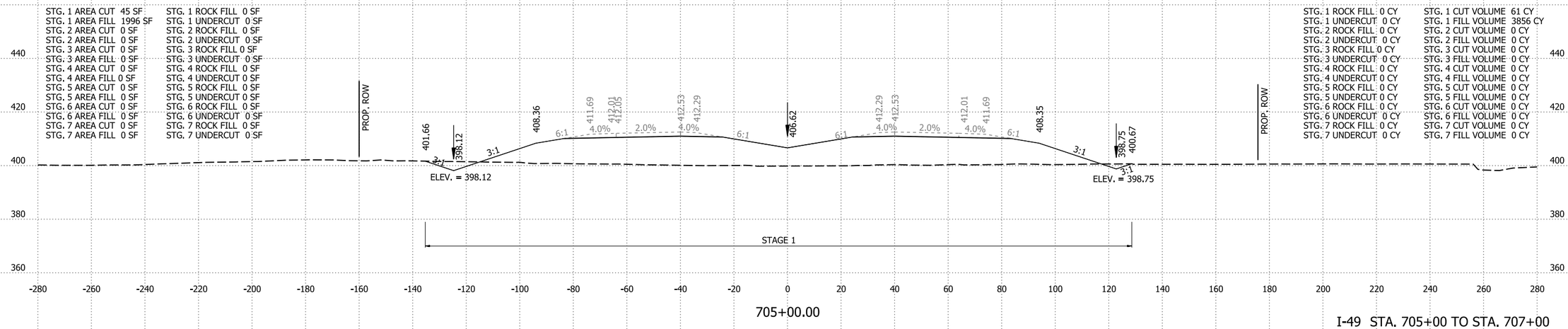


STG. 1 AREA CUT 45 SF
STG. 1 AREA FILL 1996 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 61 CY
STG. 1 FILL VOLUME 3856 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 705+00 TO STA. 707+00

4/30/2026 8:13:50 AM
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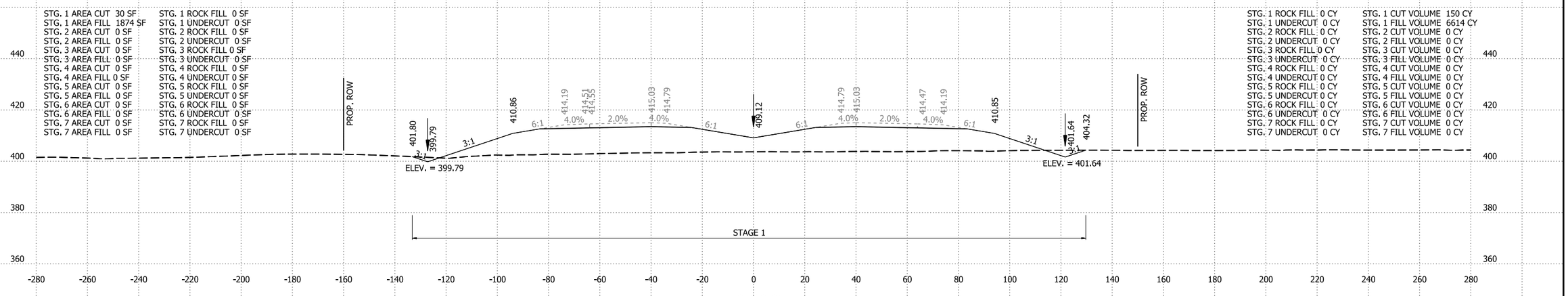
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	549	742
		CROSS SECTIONS				

STG. 1 AREA CUT 30 SF
STG. 1 AREA FILL 1874 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 150 CY
STG. 1 FILL VOLUME 6614 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



710+00.00

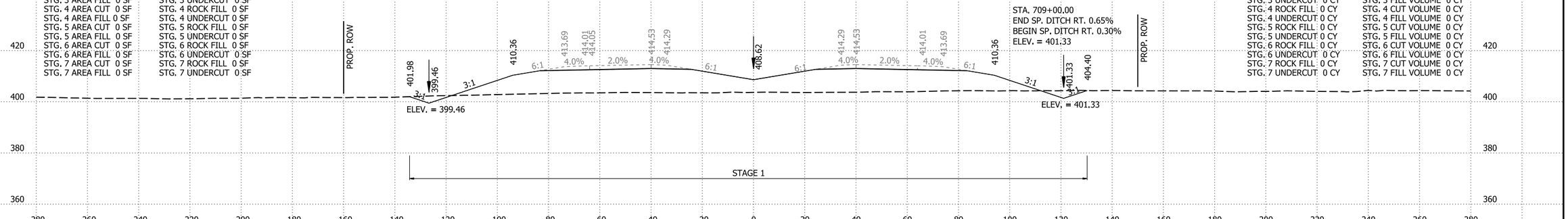
STG. 1 AREA CUT 51 SF
STG. 1 AREA FILL 1698 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 231 CY
STG. 1 FILL VOLUME 6095 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STA. 709+00.00
END SP. DITCH RT. 0.65%
BEGIN SP. DITCH RT. 0.30%
ELEV. = 401.33



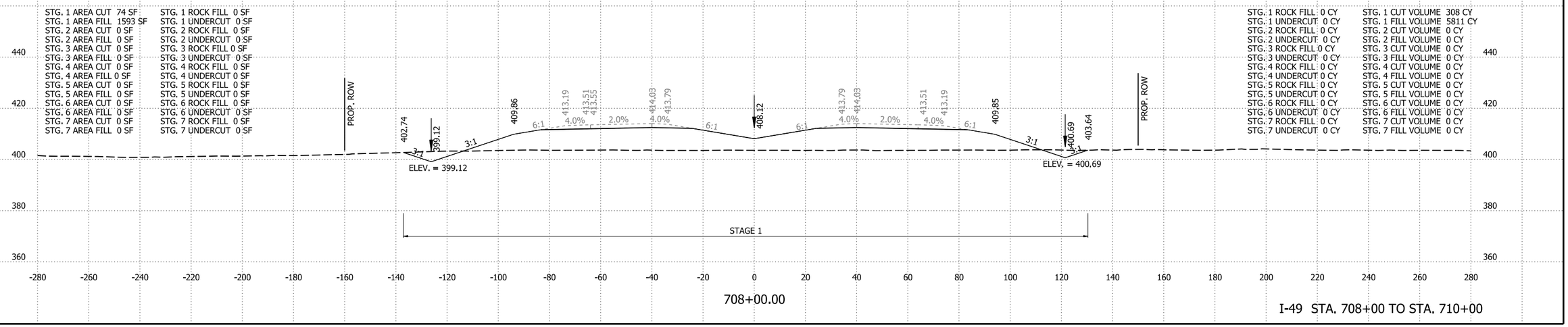
709+00.00

STG. 1 AREA CUT 74 SF
STG. 1 AREA FILL 1593 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 308 CY
STG. 1 FILL VOLUME 5811 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



708+00.00

I-49 STA. 708+00 TO STA. 710+00

4/30/2026 8:13:57 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	550	742
		CROSS SECTIONS				

STG. 1 AREA CUT 42 SF
STG. 1 AREA FILL 2052 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 159 CY
STG. 1 FILL VOLUME 7573 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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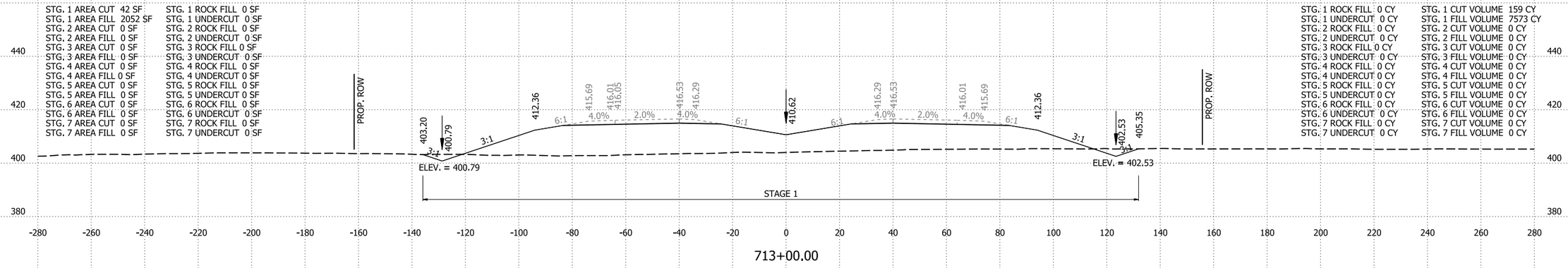
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



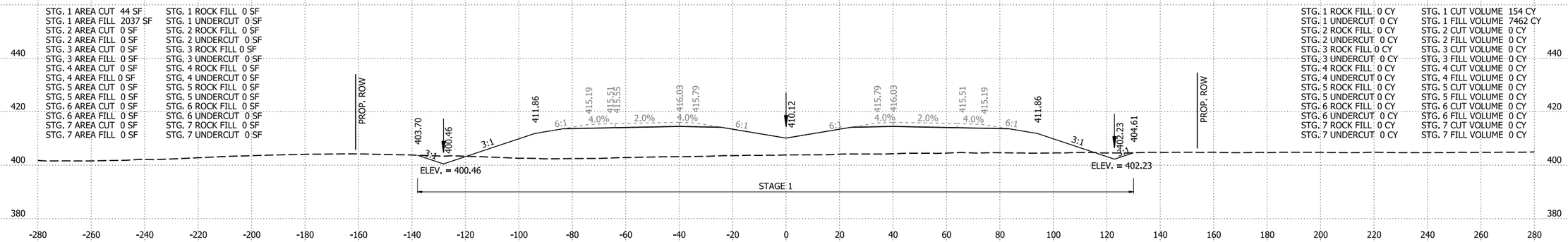
713+00.00

STG. 1 AREA CUT 44 SF
STG. 1 AREA FILL 2037 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 154 CY
STG. 1 FILL VOLUME 7462 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



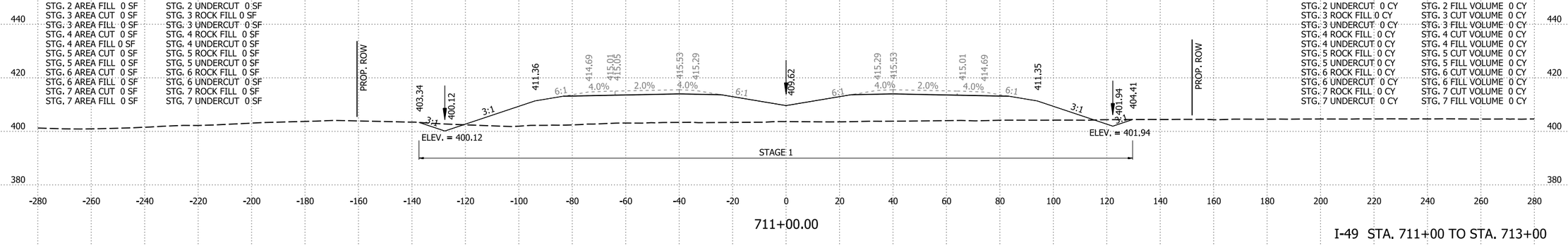
712+00.00

STG. 1 AREA CUT 39 SF
STG. 1 AREA FILL 1992 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 128 CY
STG. 1 FILL VOLUME 7159 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



711+00.00

I-49 STA. 711+00 TO STA. 713+00

4/30/2026 8:14:04 AM
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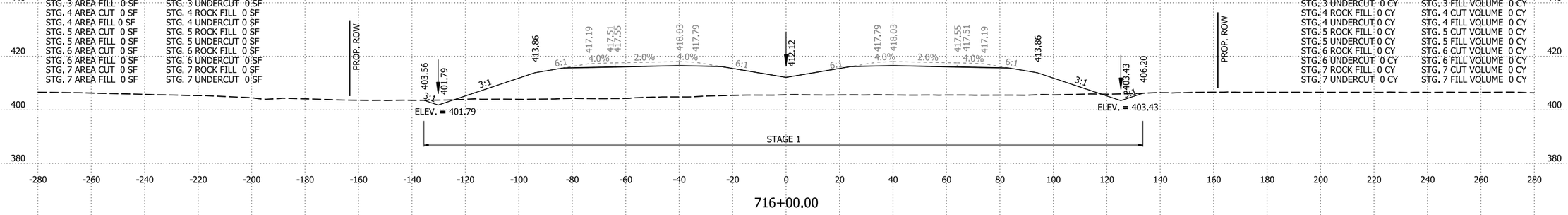
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	551	742
		CROSS SECTIONS				

STG. 1 AREA CUT 29 SF
STG. 1 AREA FILL 2186 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 124 CY
STG. 1 FILL VOLUME 7981 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



716+00.00

STG. 1 AREA CUT 38 SF
STG. 1 AREA FILL 2124 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 138 CY
STG. 1 FILL VOLUME 7779 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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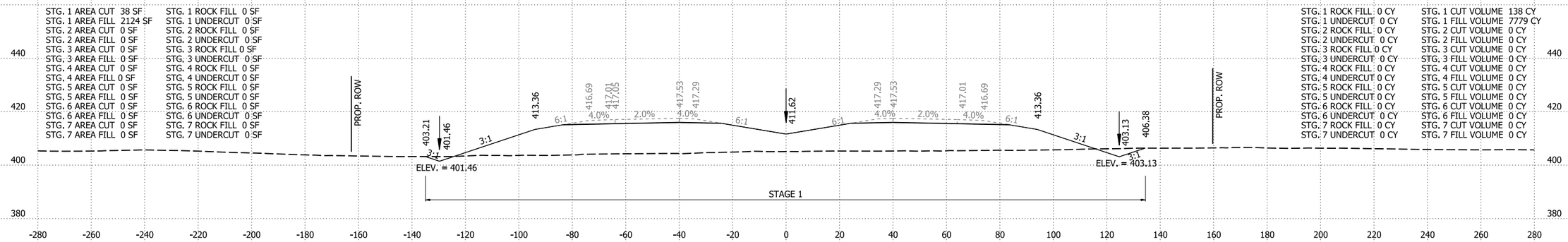
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



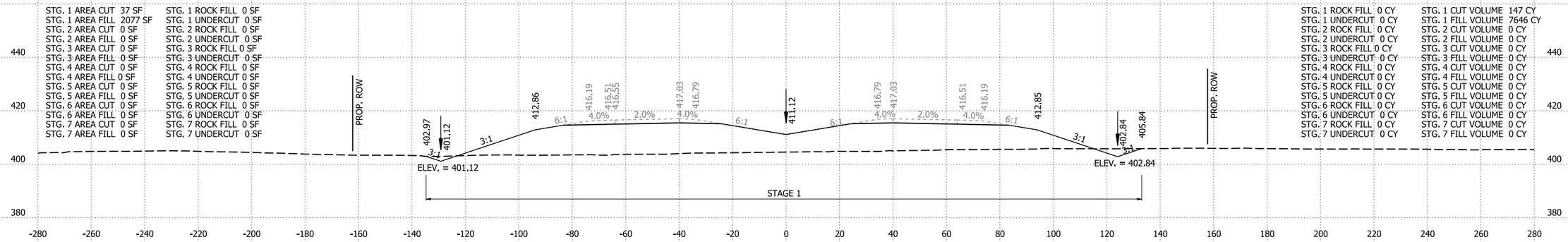
715+00.00

STG. 1 AREA CUT 37 SF
STG. 1 AREA FILL 2077 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 147 CY
STG. 1 FILL VOLUME 7646 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



714+00.00

I-49 STA. 714+00 TO STA. 716+00

4/30/2026 8:14:11 AM
R040904_22_CX.dgn

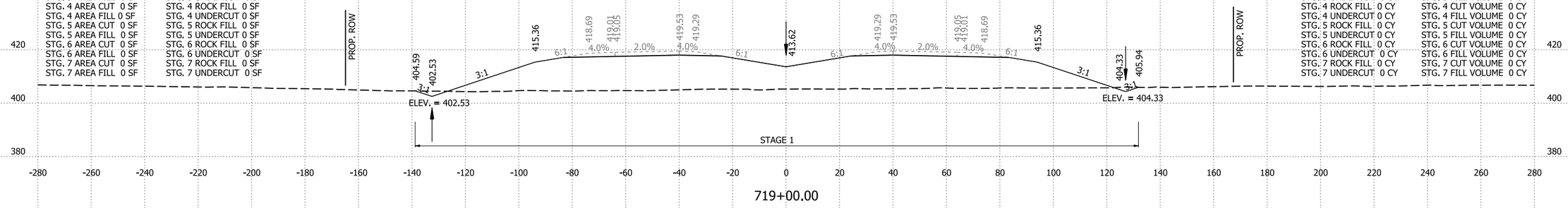
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	552	742
		CROSS SECTIONS				

STG. 1 AREA CUT 20 SF
STG. 1 AREA FILL 2532 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 70 CY
STG. 1 FILL VOLUME 9085 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



719+00.00

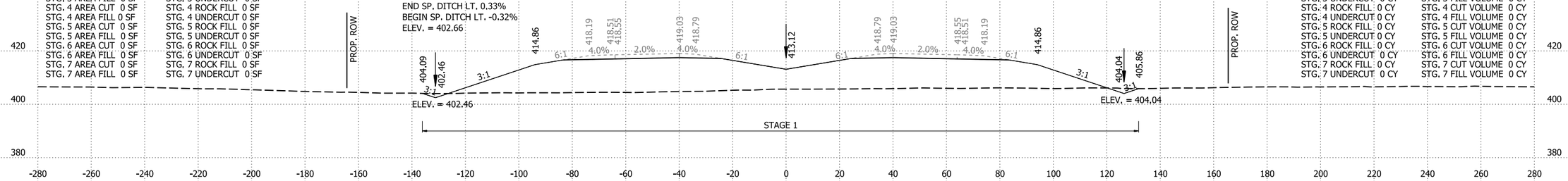
STG. 1 AREA CUT 18 SF
STG. 1 AREA FILL 2374 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 718+60.00
END SP. DITCH LT. 0.33%
BEGIN SP. DITCH LT. -0.32%
ELEV. = 402.66

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 92 CY
STG. 1 FILL VOLUME 8598 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



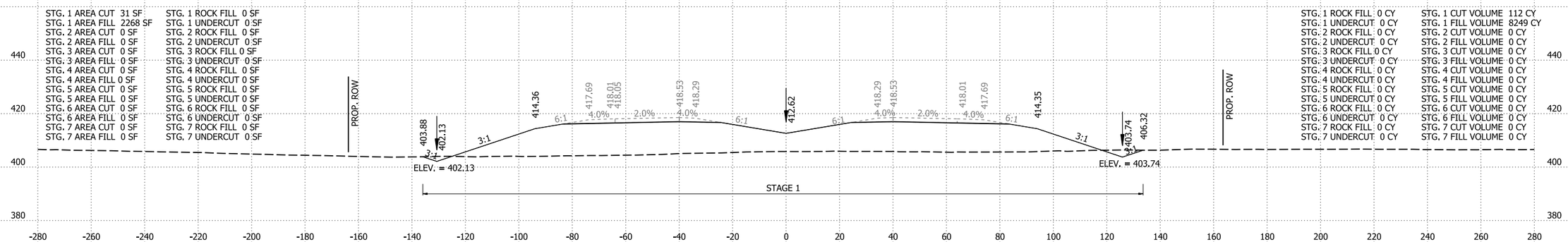
718+00.00

STG. 1 AREA CUT 31 SF
STG. 1 AREA FILL 2268 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 112 CY
STG. 1 FILL VOLUME 8249 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



717+00.00

I-49 STA. 717+00 TO STA. 719+00

4/30/2026 8:14:18 AM
R040904_22_CX.dgn

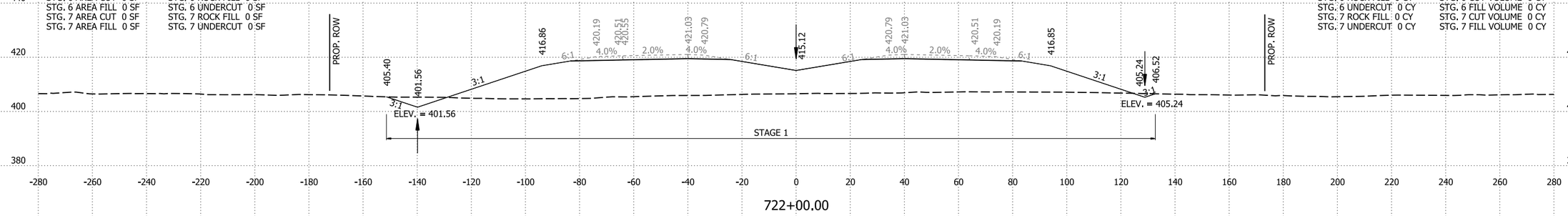
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	553	742
		CROSS SECTIONS				

STG. 1 AREA CUT 47 SF
STG. 1 AREA FILL 2648 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 164 CY
STG. 1 FILL VOLUME 9761 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



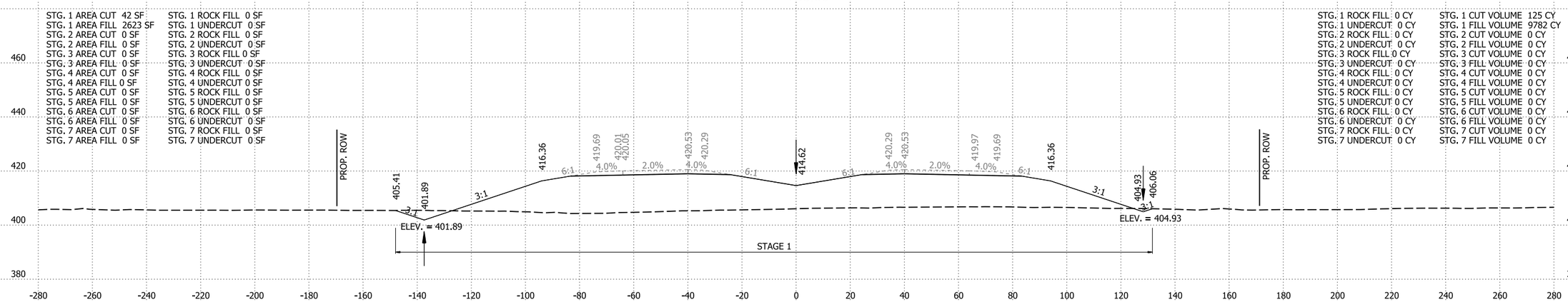
722+00.00

STG. 1 AREA CUT 42 SF
STG. 1 AREA FILL 2623 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 125 CY
STG. 1 FILL VOLUME 9782 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



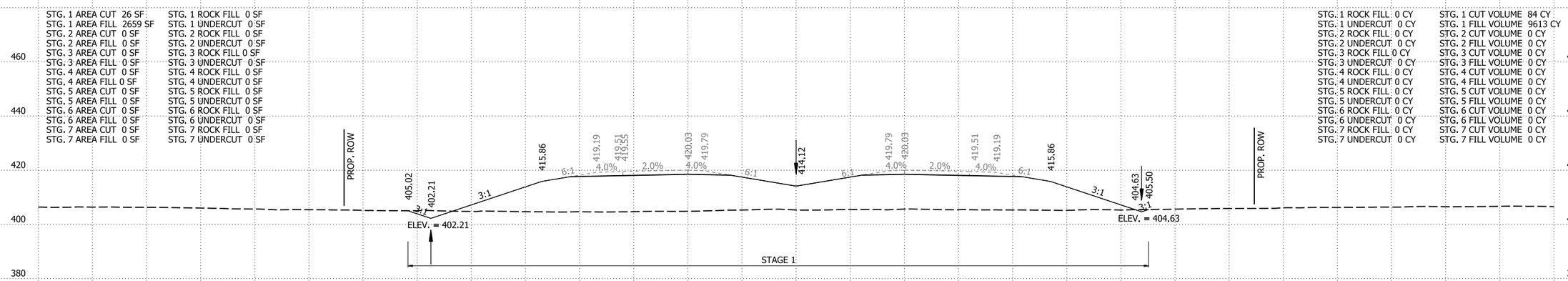
721+00.00

STG. 1 AREA CUT 26 SF
STG. 1 AREA FILL 2659 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 84 CY
STG. 1 FILL VOLUME 9613 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



720+00.00

I-49 STA. 720+00 TO STA. 722+00

4/30/2026 8:14:19 AM
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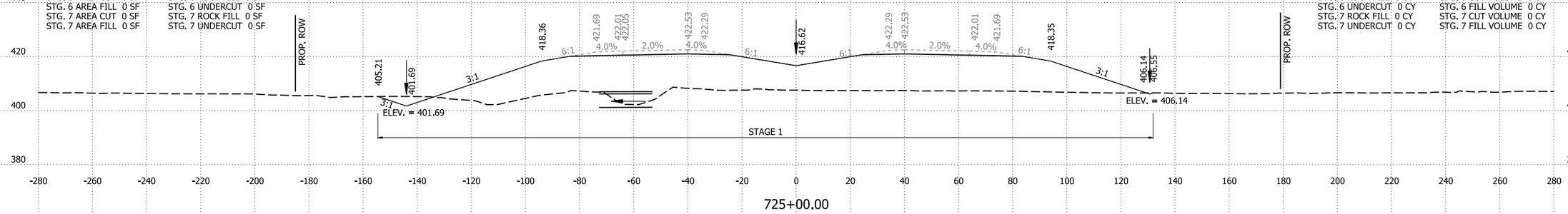
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	554	742
		CROSS SECTIONS				

STG. 1 AREA CUT 37 SF
STG. 1 AREA FILL 2966 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 91 CY
STG. 1 FILL VOLUME 10677 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



725+00.00

STG. 1 AREA CUT 12 SF
STG. 1 AREA FILL 2799 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 104 CY
STG. 1 FILL VOLUME 10244 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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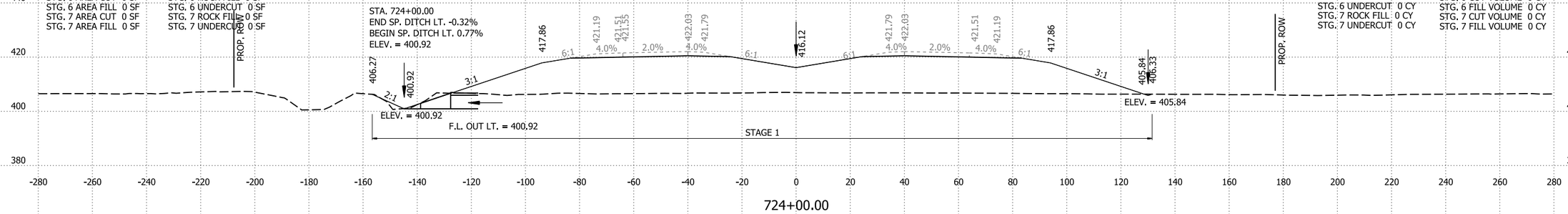
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



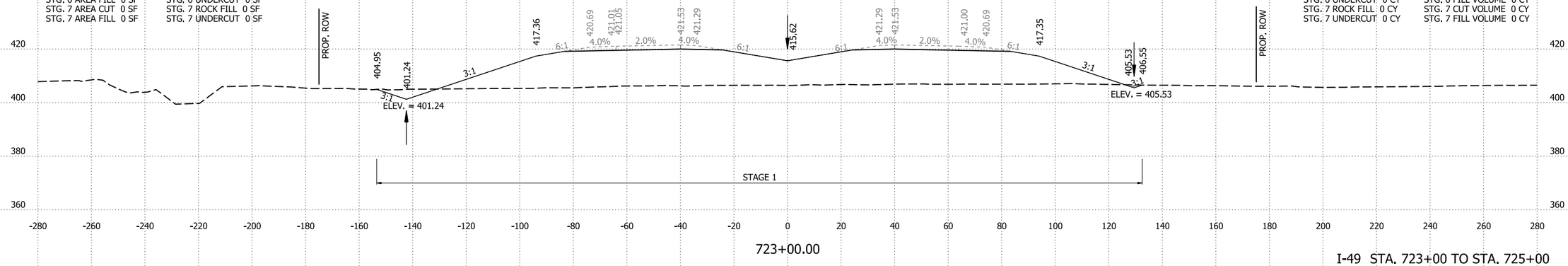
724+00.00

STG. 1 AREA CUT 45 SF
STG. 1 AREA FILL 2733 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 169 CY
STG. 1 FILL VOLUME 9965 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



723+00.00

I-49 STA. 723+00 TO STA. 725+00

4/30/2026 8:14:20 AM
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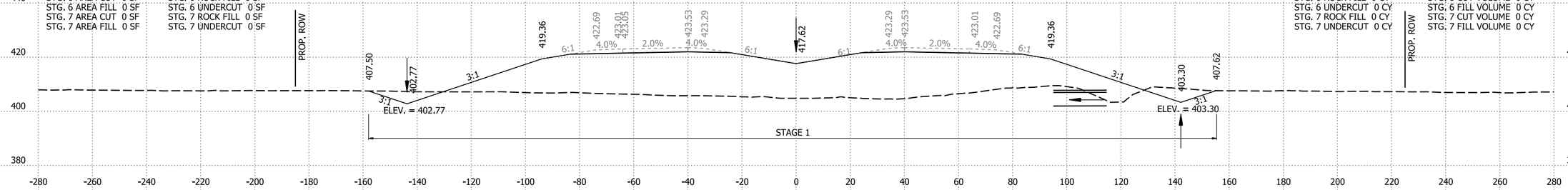
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	555	742
		CROSS SECTIONS				

STG. 1 AREA CUT 137 SF
STG. 1 AREA FILL 3267 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 358 CY
STG. 1 FILL VOLUME 11831 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



727+00.00

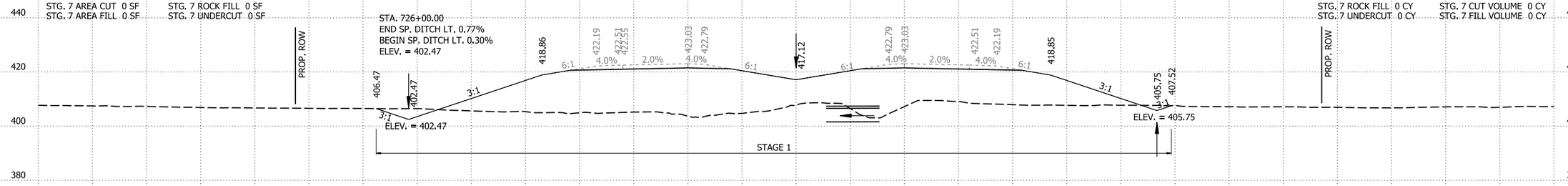
STG. 1 AREA CUT 57 SF
STG. 1 AREA FILL 3122 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 45 CY
STG. 1 FILL VOLUME 2883 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STA. 726+00.00
END SP. DITCH LT. 0.77%
BEGIN SP. DITCH LT. 0.30%
ELEV. = 402.47



726+00.00

STG. 1 AREA CUT 40 SF
STG. 1 AREA FILL 3105 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

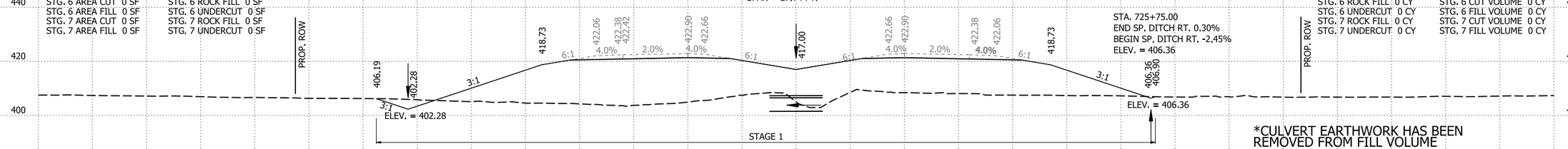
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 108 CY
STG. 1 FILL VOLUME 6848 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STA. 725+75.00 CONSTRUCT
DBL. 8' X 5' X 397' R.C. BOX CULVERT
50° RT. FWD. SKEW
WITH 3:1 WINGS LT. & RT.
Q50 = 342.00 CFS D.A. = 224.00 ACRES
DUMPED RIPRAP LT. & RT. = 251 CU. YDS.
SPAN = 27.74 FT.

STA. 725+75.00
END SP. DITCH RT. 0.30%
BEGIN SP. DITCH RT. -2.45%
ELEV. = 406.36



725+75.00

*CULVERT EARTHWORK HAS BEEN REMOVED FROM FILL VOLUME

I-49 STA. 725+75 TO STA. 727+00

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	556	742
		CROSS SECTIONS				

STG. 1 AREA CUT 85 SF
STG. 1 AREA FILL 3214 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 445 CY
STG. 1 FILL VOLUME 12092 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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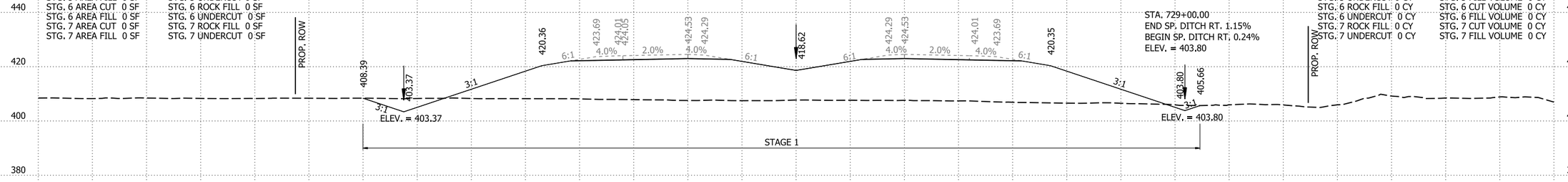
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



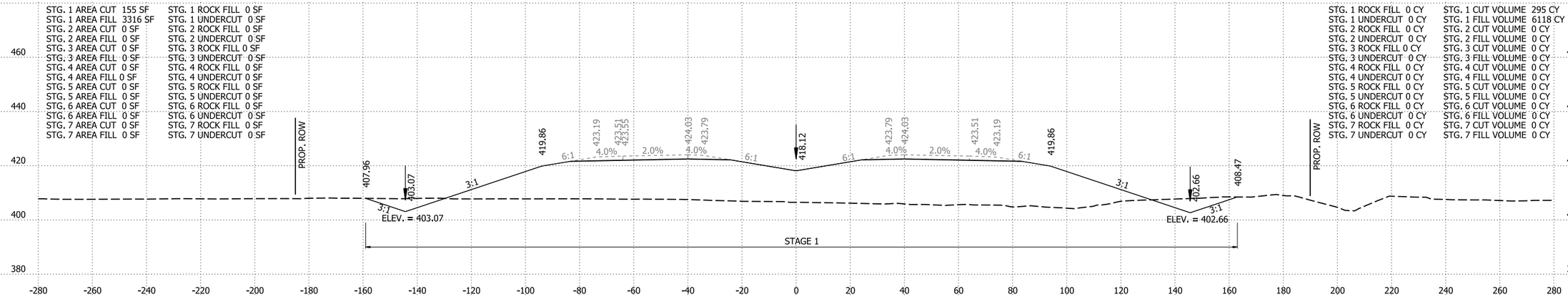
729+00.00

STG. 1 AREA CUT 155 SF
STG. 1 AREA FILL 3316 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 295 CY
STG. 1 FILL VOLUME 6118 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



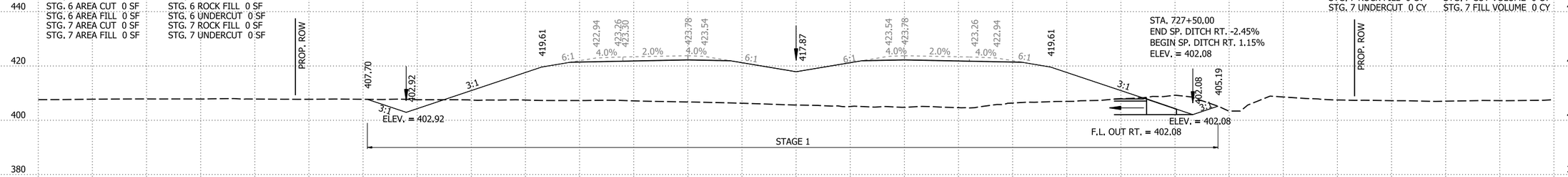
728+00.00

STG. 1 AREA CUT 163 SF
STG. 1 AREA FILL 3291 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 278 CY
STG. 1 FILL VOLUME 6072 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



727+50.00

I-49 STA. 727+50 TO STA. 729+00

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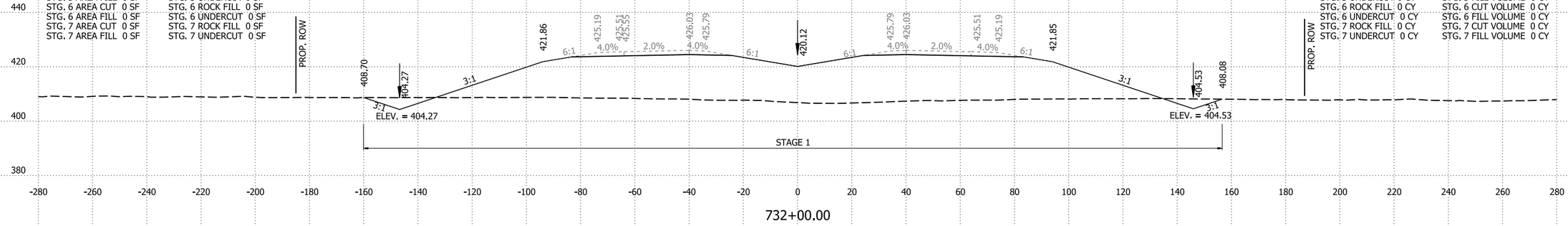
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	557	742
		CROSS SECTIONS				

STG. 1 AREA CUT 98 SF
STG. 1 AREA FILL 3502 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 365 CY
STG. 1 FILL VOLUME 12793 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



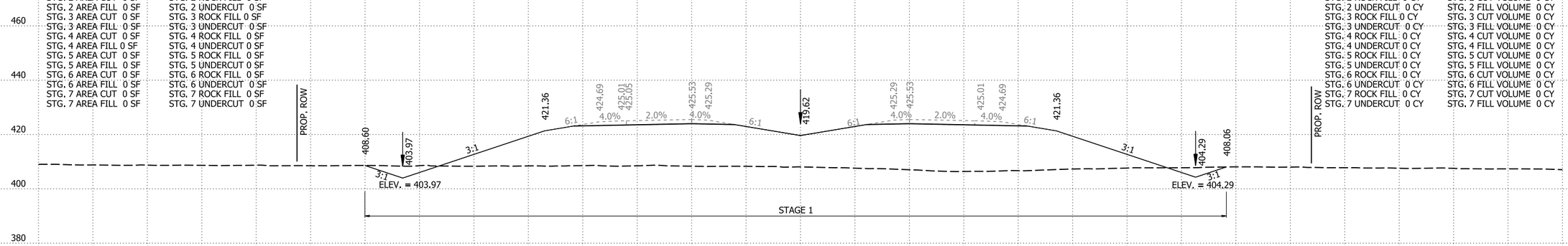
732+00.00

STG. 1 AREA CUT 99 SF
STG. 1 AREA FILL 3406 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 341 CY
STG. 1 FILL VOLUME 12385 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



731+00.00

STG. 1 AREA CUT 85 SF
STG. 1 AREA FILL 3282 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 314 CY
STG. 1 FILL VOLUME 12029 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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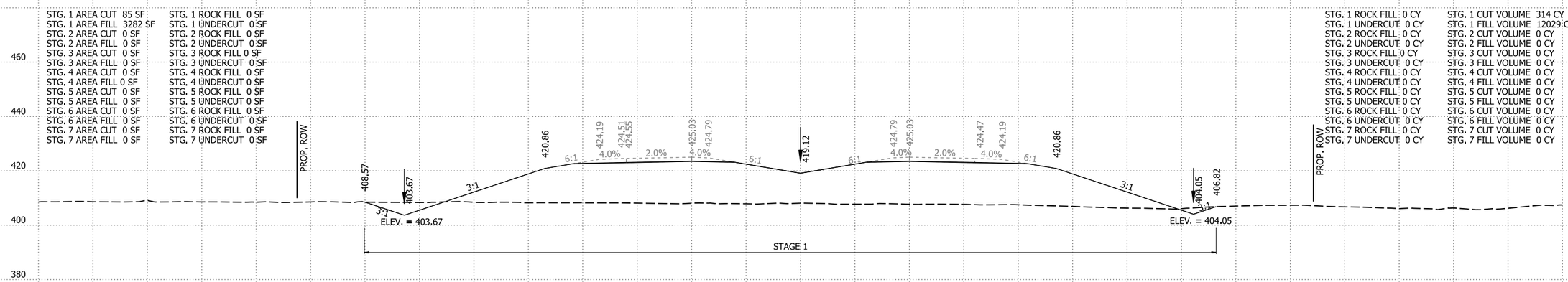
STG. 7 FILL VOLUME 0 CY



730+00.00

I-49 STA. 730+00 TO STA. 732+00

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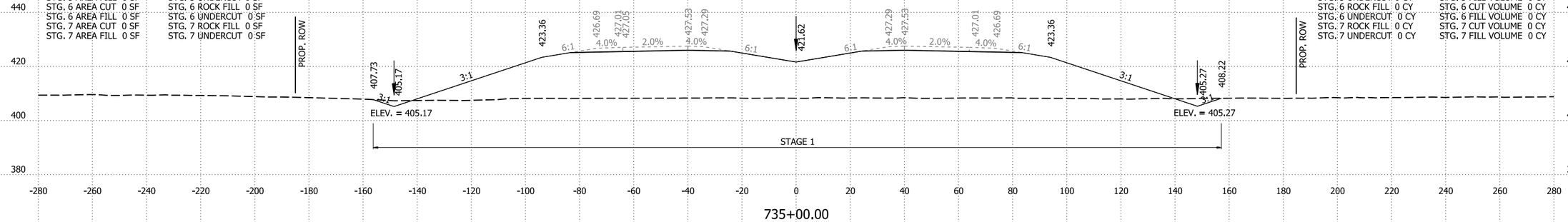
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	558	742
		CROSS SECTIONS				

STG. 1 AREA CUT 40 SF
STG. 1 AREA FILL 3853 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 194 CY
STG. 1 FILL VOLUME 14106 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



735+00.00

STG. 1 AREA CUT 65 SF
STG. 1 AREA FILL 3764 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 274 CY
STG. 1 FILL VOLUME 13733 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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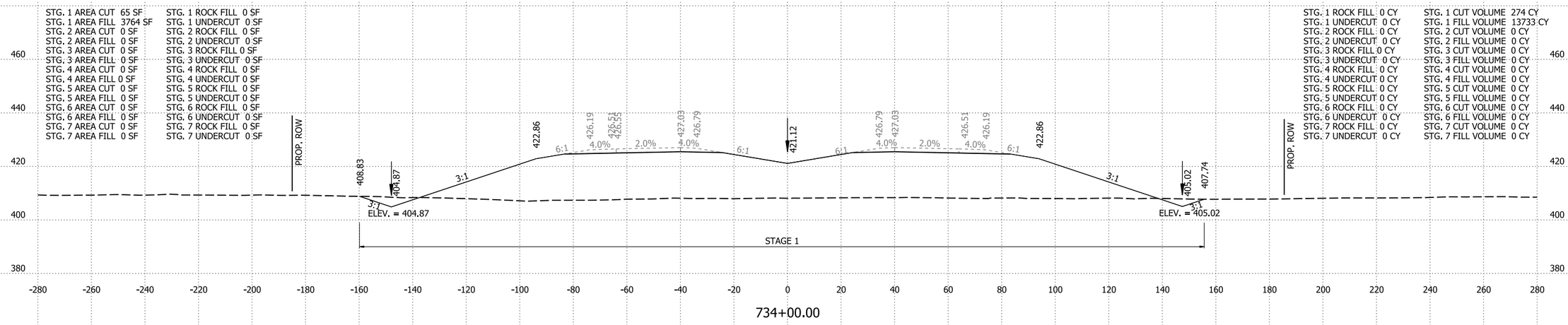
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



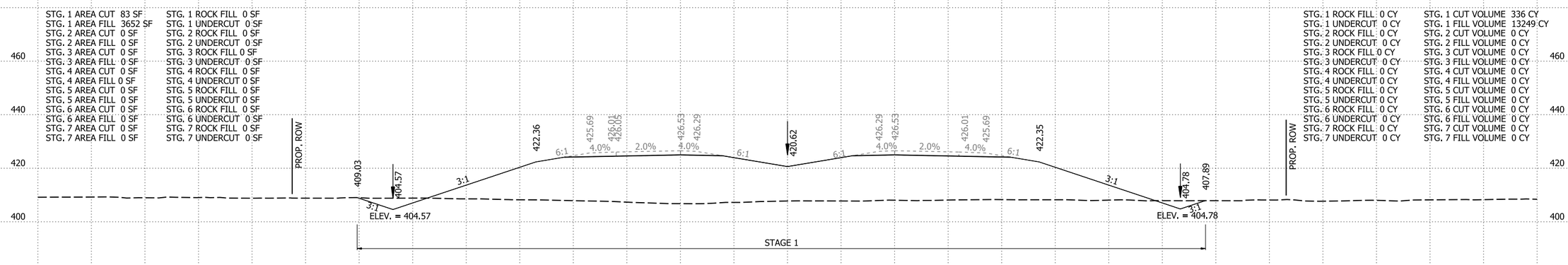
734+00.00

STG. 1 AREA CUT 83 SF
STG. 1 AREA FILL 3652 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 336 CY
STG. 1 FILL VOLUME 13249 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



733+00.00

I-49 STA. 733+00 TO STA. 735+00

4/30/2026 8:14:22 AM
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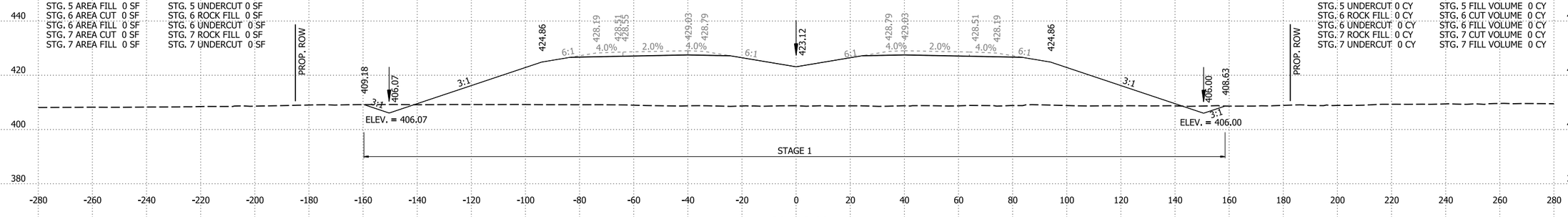
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	559	742
		CROSS SECTIONS				

STG. 1 AREA CUT 50 SF
STG. 1 AREA FILL 4077 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 182 CY
STG. 1 FILL VOLUME 14960 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



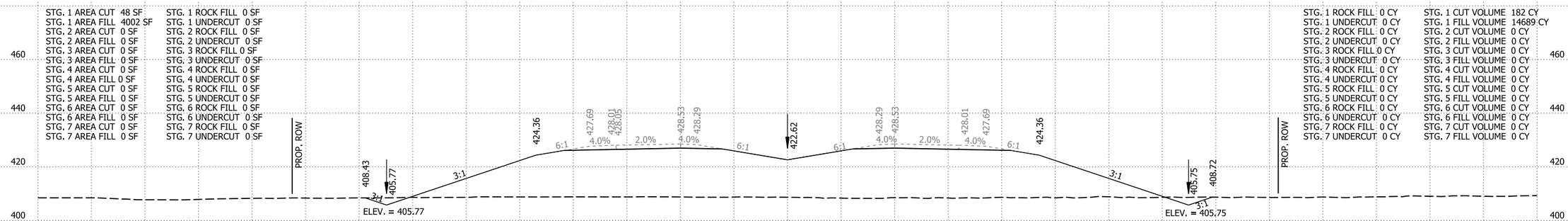
738+00.00

STG. 1 AREA CUT 48 SF
STG. 1 AREA FILL 4002 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 182 CY
STG. 1 FILL VOLUME 14689 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



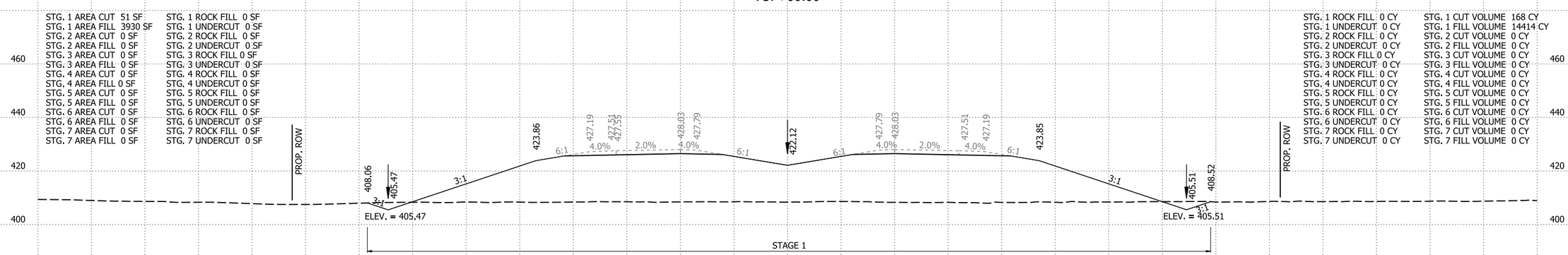
737+00.00

STG. 1 AREA CUT 51 SF
STG. 1 AREA FILL 3930 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 168 CY
STG. 1 FILL VOLUME 14414 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



736+00.00

I-49 STA. 736+00 TO STA. 738+00

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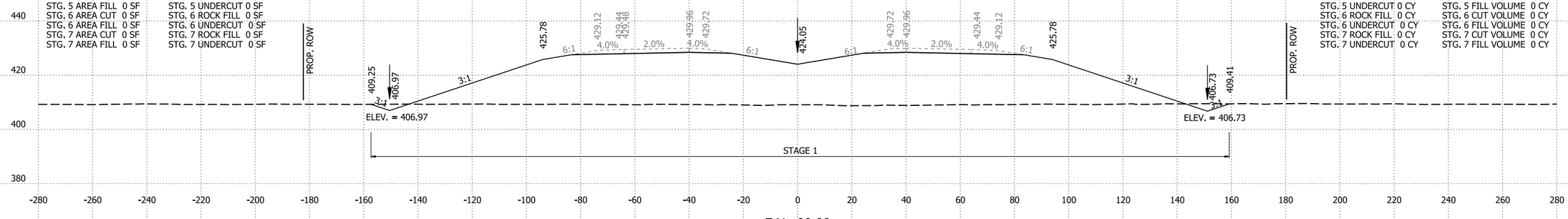
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	560	742
		CROSS SECTIONS				

STG. 1 AREA CUT 39 SF
STG. 1 AREA FILL 4257 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 152 CY
STG. 1 FILL VOLUME 15804 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



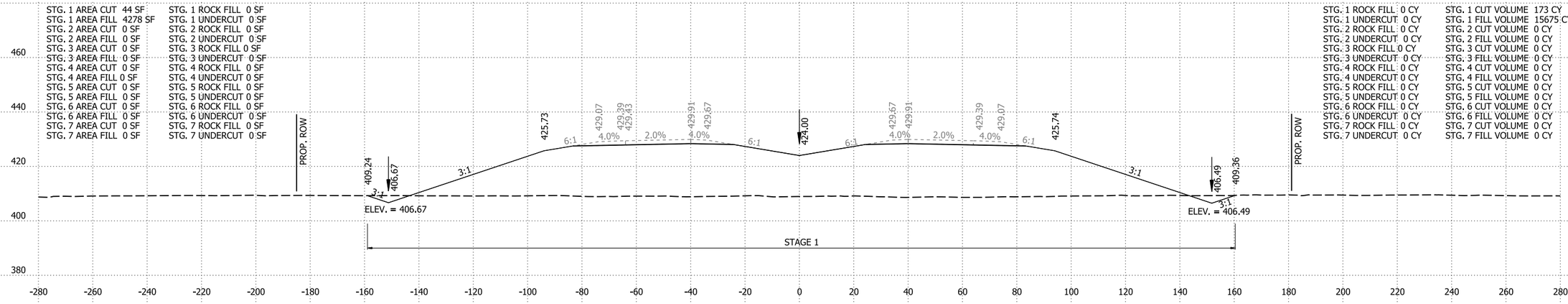
741+00.00

STG. 1 AREA CUT 44 SF
STG. 1 AREA FILL 4278 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 173 CY
STG. 1 FILL VOLUME 15675 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



740+00.00

STG. 1 AREA CUT 50 SF
STG. 1 AREA FILL 4187 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 186 CY
STG. 1 FILL VOLUME 15303 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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STG. 6 FILL VOLUME 0 CY
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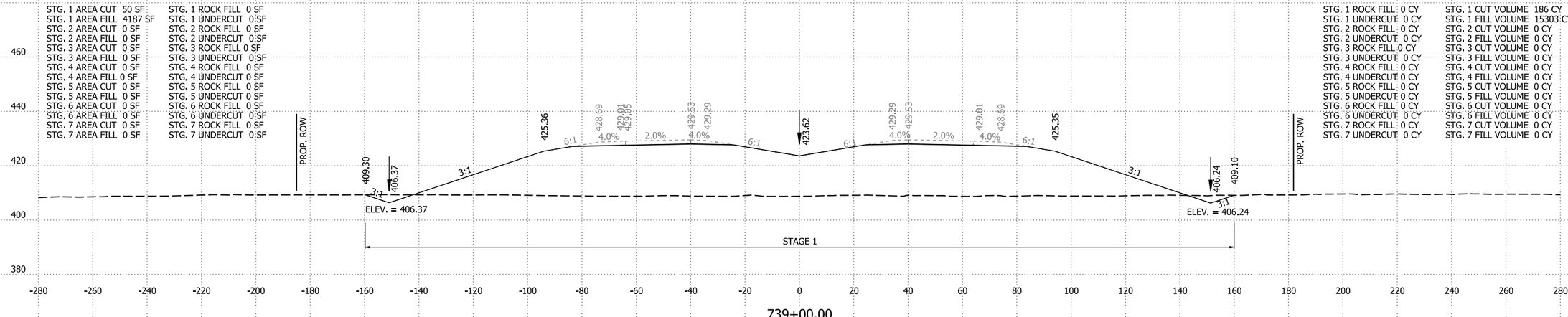
STG. 7 FILL VOLUME 0 CY



739+00.00

I-49 STA. 739+00 TO STA. 741+00

4/30/2026 8:14:23 AM
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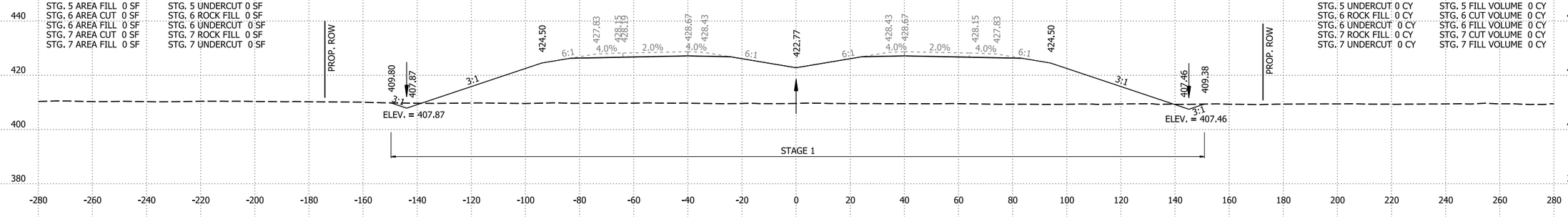
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	561	742
		CROSS SECTIONS				

STG. 1 AREA CUT 21 SF
STG. 1 AREA FILL 3781 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 89 CY
STG. 1 FILL VOLUME 14363 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



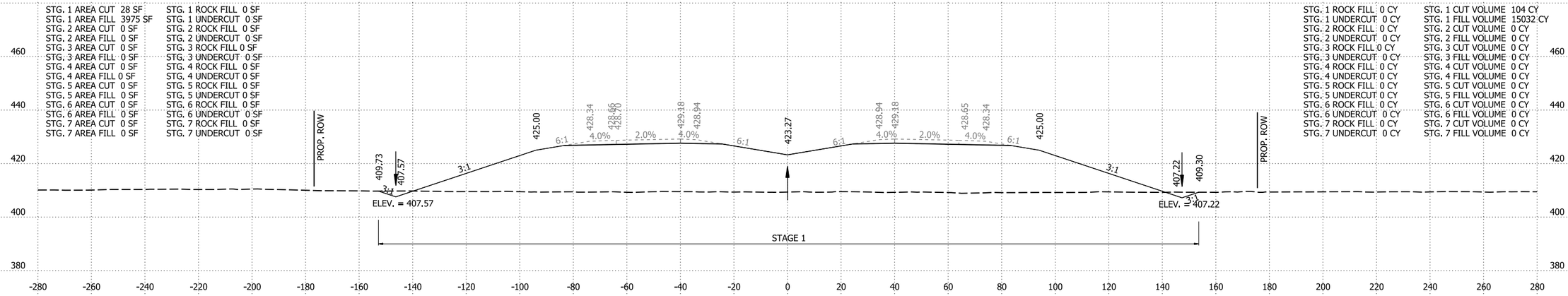
744+00.00

STG. 1 AREA CUT 28 SF
STG. 1 AREA FILL 3975 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 104 CY
STG. 1 FILL VOLUME 15032 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



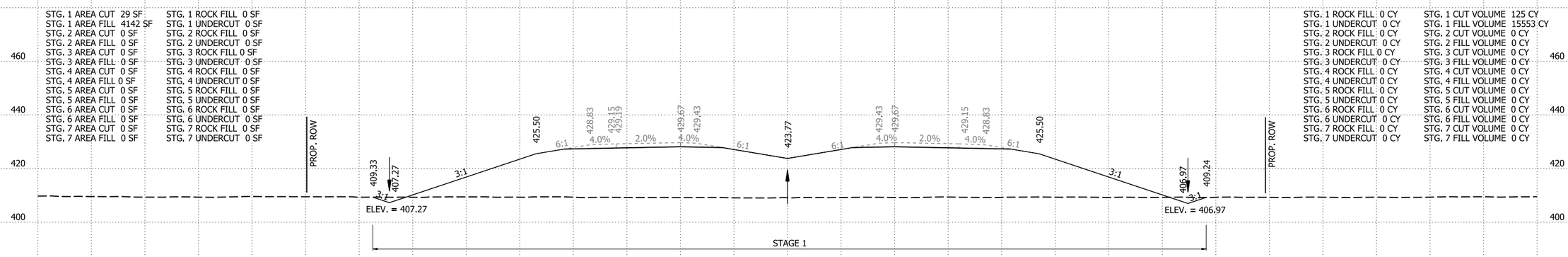
743+00.00

STG. 1 AREA CUT 29 SF
STG. 1 AREA FILL 4142 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 125 CY
STG. 1 FILL VOLUME 15553 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



742+00.00

I-49 STA. 742+00 TO STA. 744+00

4/30/2026 8:14:24 AM
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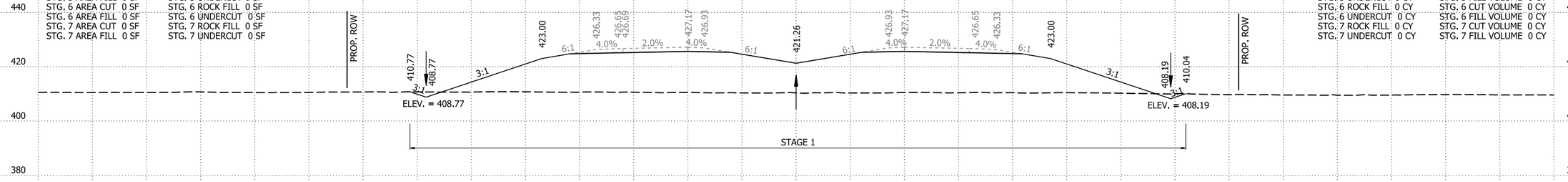
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	562	742
		CROSS SECTIONS				

STG. 1 AREA CUT 21 SF
STG. 1 AREA FILL 3130 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 73 CY
STG. 1 FILL VOLUME 11946 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



747+00.00

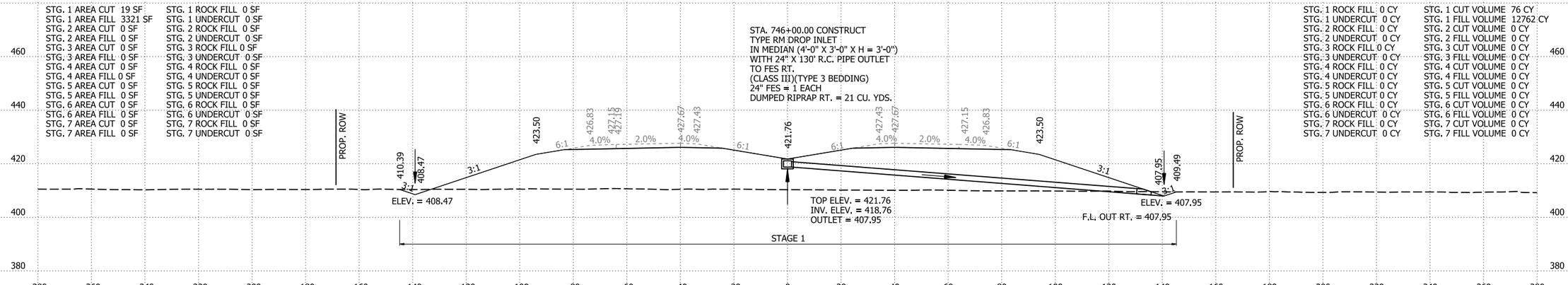
STG. 1 AREA CUT 19 SF
STG. 1 AREA FILL 3321 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 746+00.00 CONSTRUCT
TYPE RM DROP INLET
IN MEDIAN (4'-0" X 3'-0" X H = 3'-0")
WITH 24" X 130' R.C. PIPE OUTLET
TO FES RT.
(CLASS III)(TYPE 3 BEDDING)
24" FES = 1 EACH
DUMPED RIPRAP RT. = 21 CU. YDS.

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 76 CY
STG. 1 FILL VOLUME 12762 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



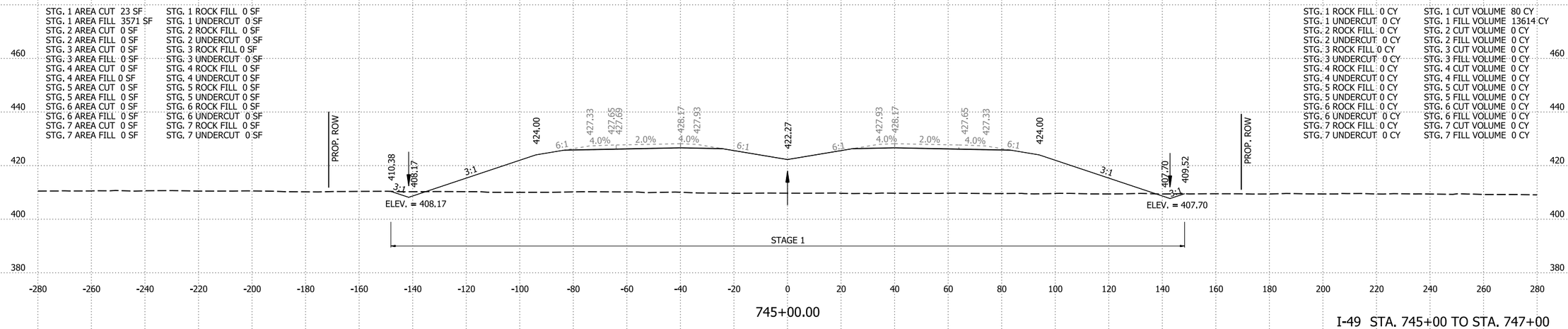
746+00.00

STG. 1 AREA CUT 23 SF
STG. 1 AREA FILL 3571 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 80 CY
STG. 1 FILL VOLUME 13614 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



745+00.00

I-49 STA. 745+00 TO STA. 747+00

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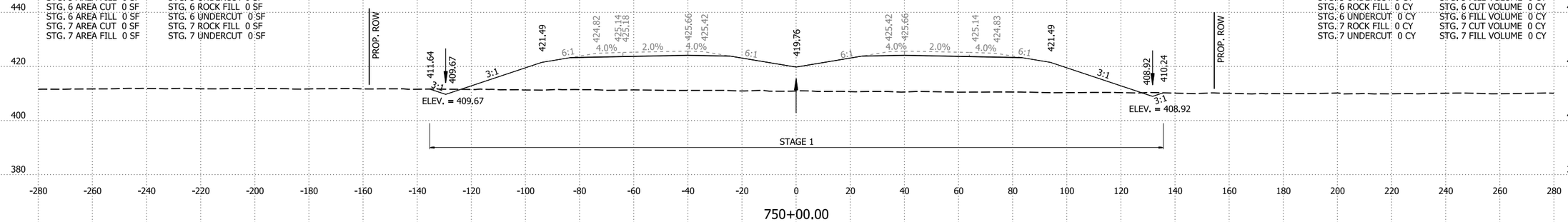
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	563	742
		CROSS SECTIONS				

STG. 1 AREA CUT 17 SF
STG. 1 AREA FILL 2633 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 70 CY
STG. 1 FILL VOLUME 9982 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



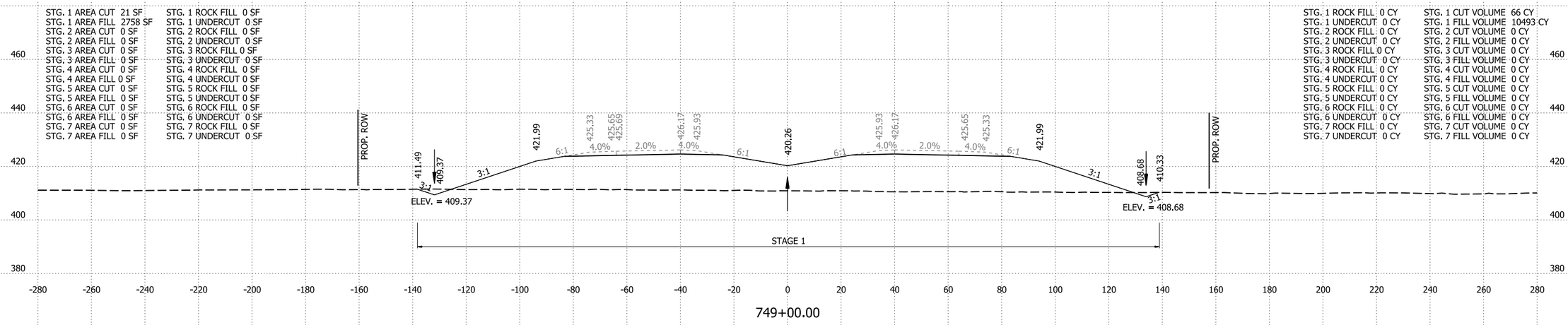
750+00.00

STG. 1 AREA CUT 21 SF
STG. 1 AREA FILL 2758 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 66 CY
STG. 1 FILL VOLUME 10493 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



749+00.00

STG. 1 AREA CUT 14 SF
STG. 1 AREA FILL 2908 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 65 CY
STG. 1 FILL VOLUME 11182 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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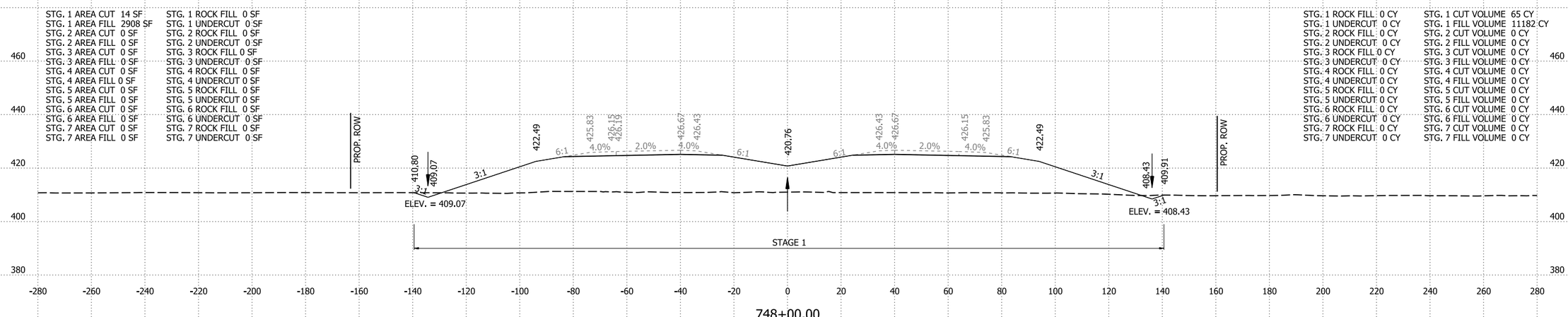
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



748+00.00

I-49 STA. 748+00 TO STA. 750+00

4/30/2026 8:14:25 AM
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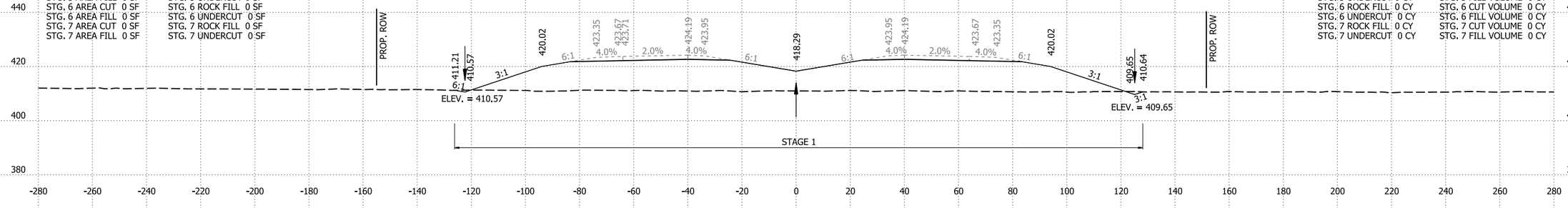
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	564	742
		CROSS SECTIONS				

STG. 1 AREA CUT 6 SF
STG. 1 AREA FILL 2255 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 30 CY
STG. 1 FILL VOLUME 8572 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



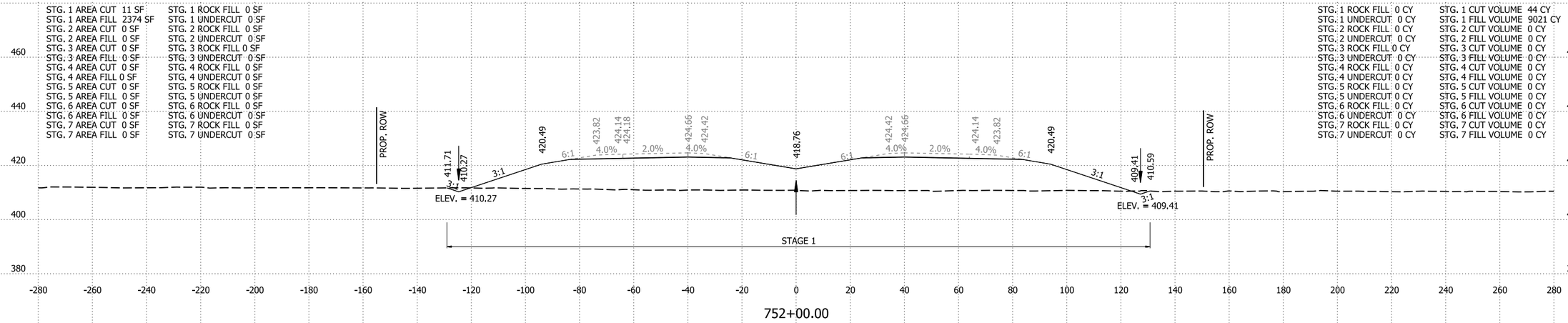
753+00.00

STG. 1 AREA CUT 11 SF
STG. 1 AREA FILL 2374 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 44 CY
STG. 1 FILL VOLUME 9021 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



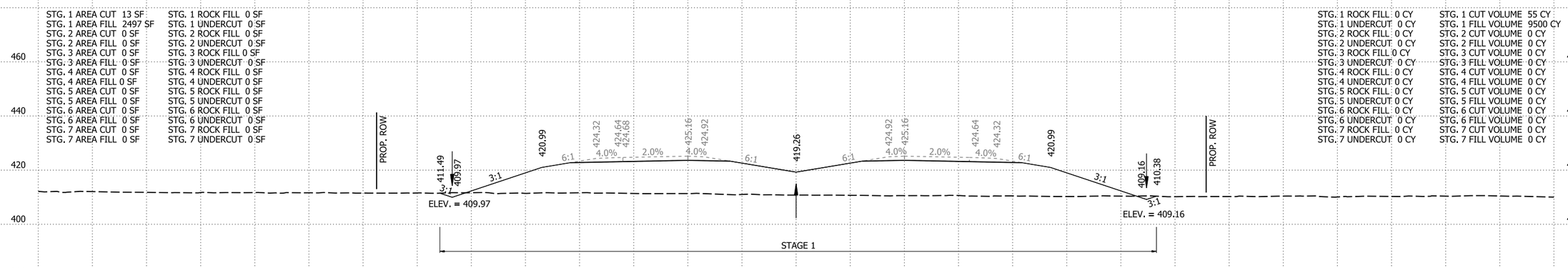
752+00.00

STG. 1 AREA CUT 13 SF
STG. 1 AREA FILL 2497 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 55 CY
STG. 1 FILL VOLUME 9500 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



751+00.00

I-49 STA. 751+00 TO STA. 753+00

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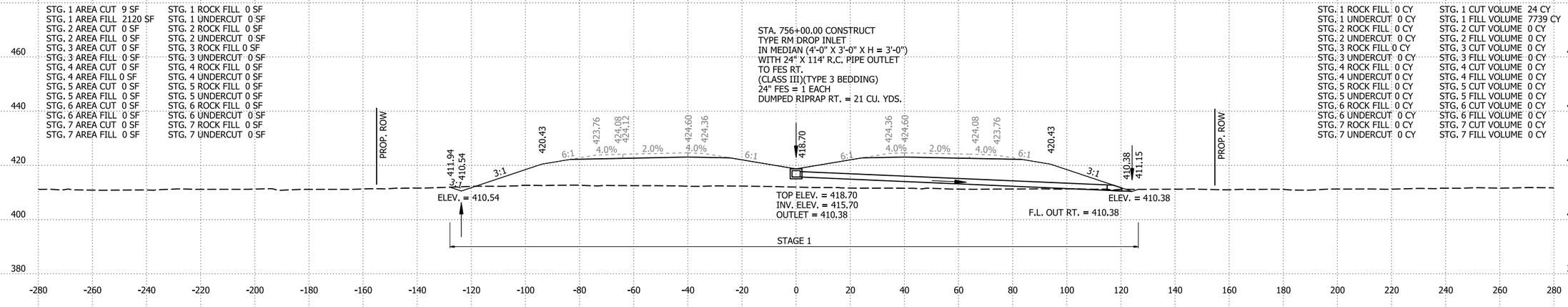
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	565	742
		CROSS SECTIONS				

STG. 1 AREA CUT 9 SF
STG. 1 AREA FILL 2120 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 24 CY
STG. 1 FILL VOLUME 7739 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



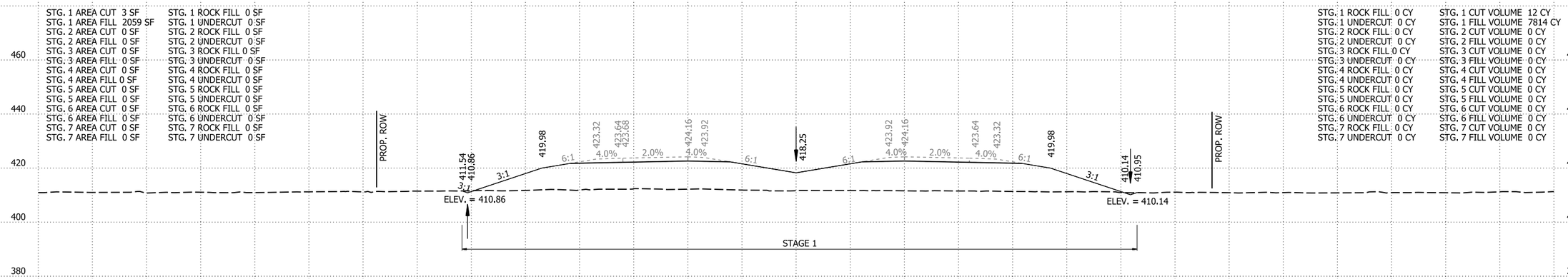
756+00.00

STG. 1 AREA CUT 3 SF
STG. 1 AREA FILL 2059 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 12 CY
STG. 1 FILL VOLUME 7814 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



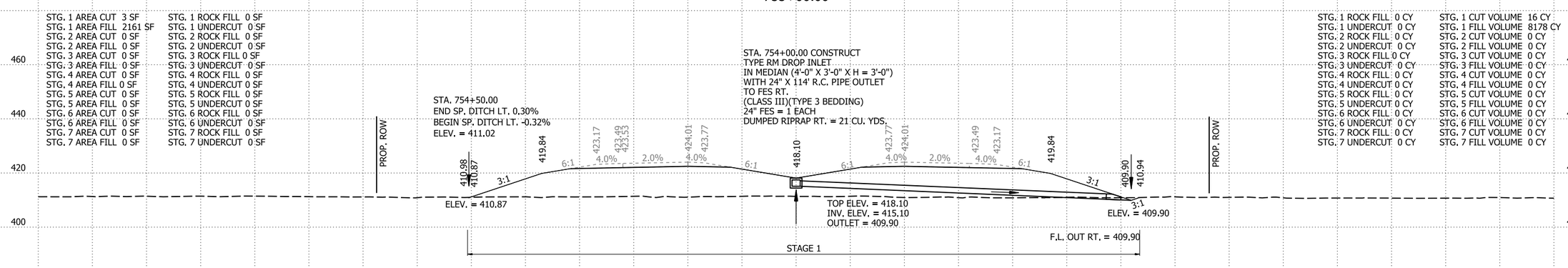
755+00.00

STG. 1 AREA CUT 3 SF
STG. 1 AREA FILL 2161 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 16 CY
STG. 1 FILL VOLUME 8178 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



754+00.00

I-49 STA. 754+00 TO STA. 756+00

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	566	742

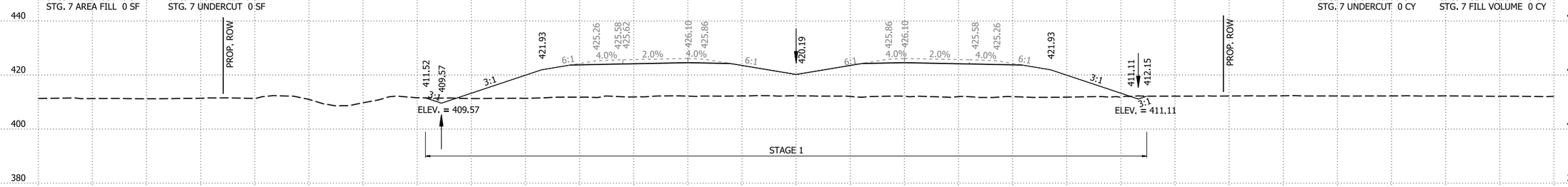
CROSS SECTIONS

STG. 1 AREA CUT 14 SF
STG. 1 AREA FILL 2479 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 42 CY
STG. 1 FILL VOLUME 8906 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



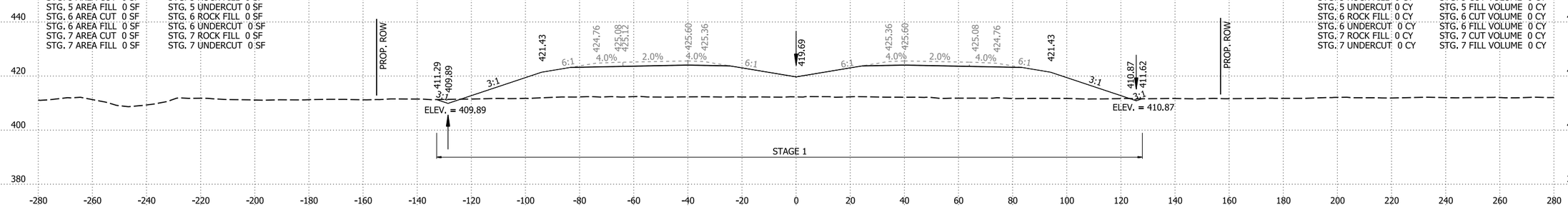
759+00.00

STG. 1 AREA CUT 8 SF
STG. 1 AREA FILL 2330 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 38 CY
STG. 1 FILL VOLUME 8524 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



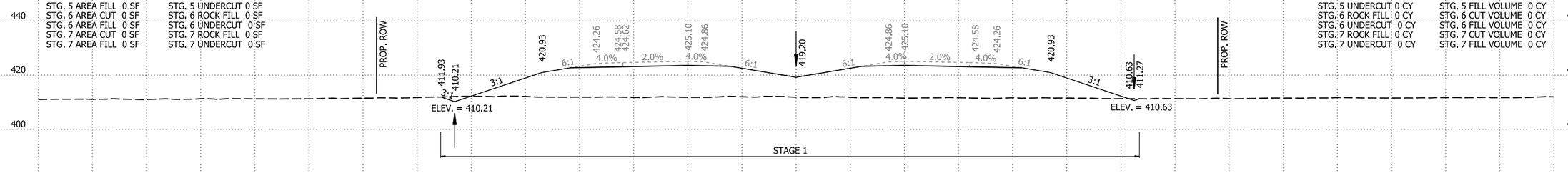
758+00.00

STG. 1 AREA CUT 12 SF
STG. 1 AREA FILL 2273 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 39 CY
STG. 1 FILL VOLUME 8135 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



757+00.00

I-49 STA. 757+00 TO STA. 759+00

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	567	742
		CROSS SECTIONS				

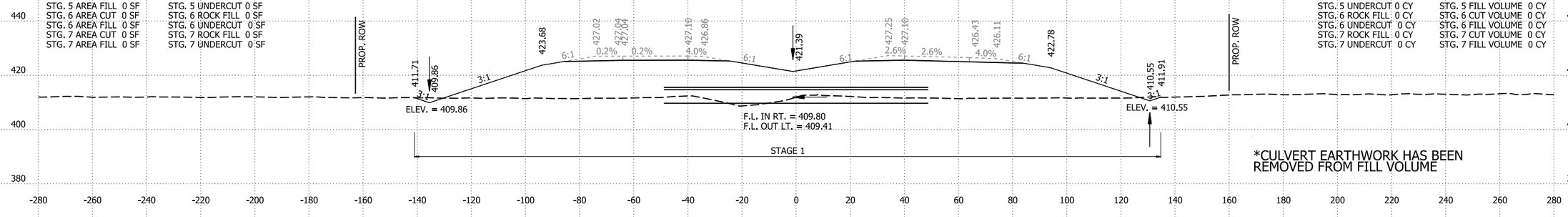
STG. 1 AREA CUT 16 SF
STG. 1 AREA FILL 2893 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 761+00.00 CONSTRUCT
QUINT. 10' X 5' X 359' R.C. BOX CULVERT
50° RT. FWD. SKEW
WITH 3:1 WINGS LT. & RT.
Q50 = 650.00 CFS D.A. = 550.40 ACRES
DUMPED RIPRAP LT. & RT. = 967 CU. YDS.
SPAN = 84.01 FT.

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 53 CY
STG. 1 FILL VOLUME 5836 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



*CULVERT EARTHWORK HAS BEEN REMOVED FROM FILL VOLUME

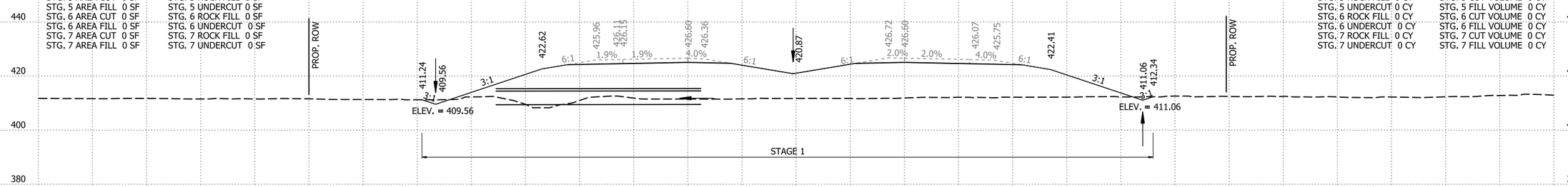
761+00.00

STG. 1 AREA CUT 13 SF
STG. 1 AREA FILL 2688 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 15 CY
STG. 1 FILL VOLUME 4901 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



760+00.00

STG. 1 AREA CUT 3 SF
STG. 1 AREA FILL 2605 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

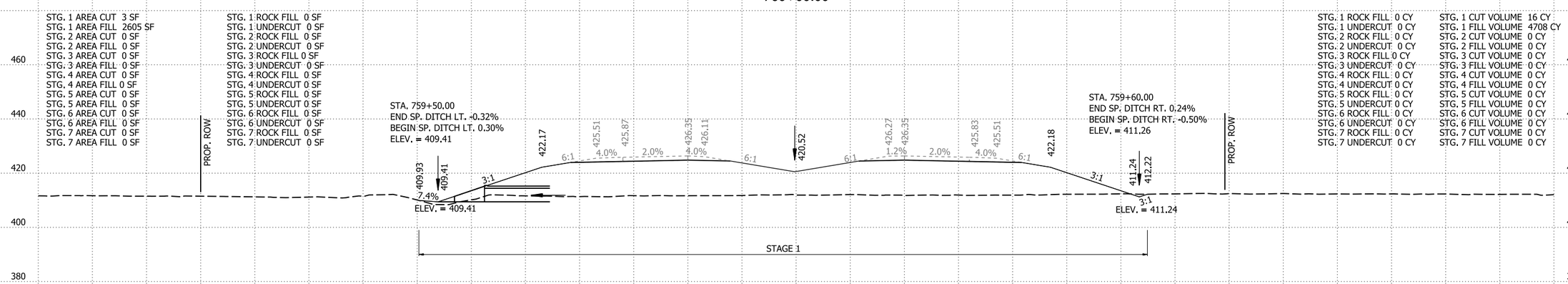
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 759+50.00
END SP. DITCH LT. -0.32%
BEGIN SP. DITCH LT. 0.30%
ELEV. = 409.41

STA. 759+60.00
END SP. DITCH RT. 0.24%
BEGIN SP. DITCH RT. -0.50%
ELEV. = 411.26

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 16 CY
STG. 1 FILL VOLUME 4708 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



759+50.00

I-49 STA. 759+50 TO STA. 761+00

4/30/2026 8:14:28 AM
R040904_22_CX.dgn

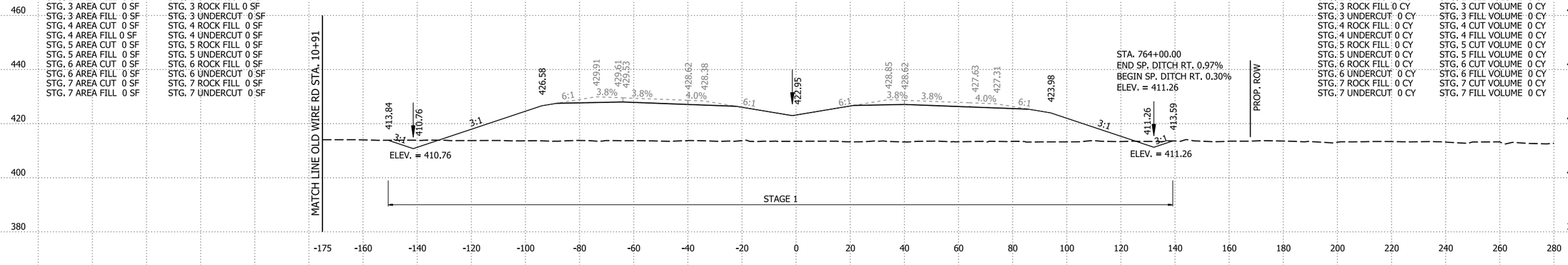
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	568	742
		CROSS SECTIONS				

STG. 1 AREA CUT 46 SF
STG. 1 AREA FILL 2828 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 146 CY
STG. 1 FILL VOLUME 10554 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



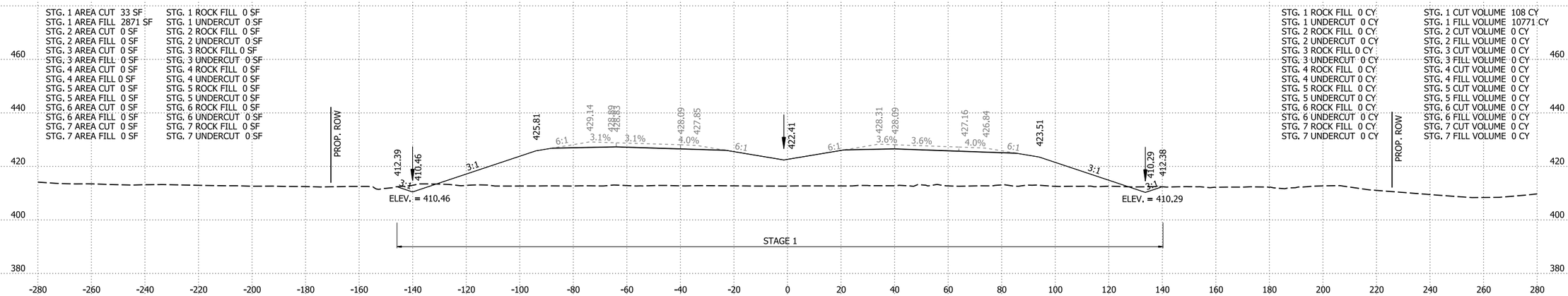
764+00.00

STG. 1 AREA CUT 33 SF
STG. 1 AREA FILL 2871 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 108 CY
STG. 1 FILL VOLUME 10771 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



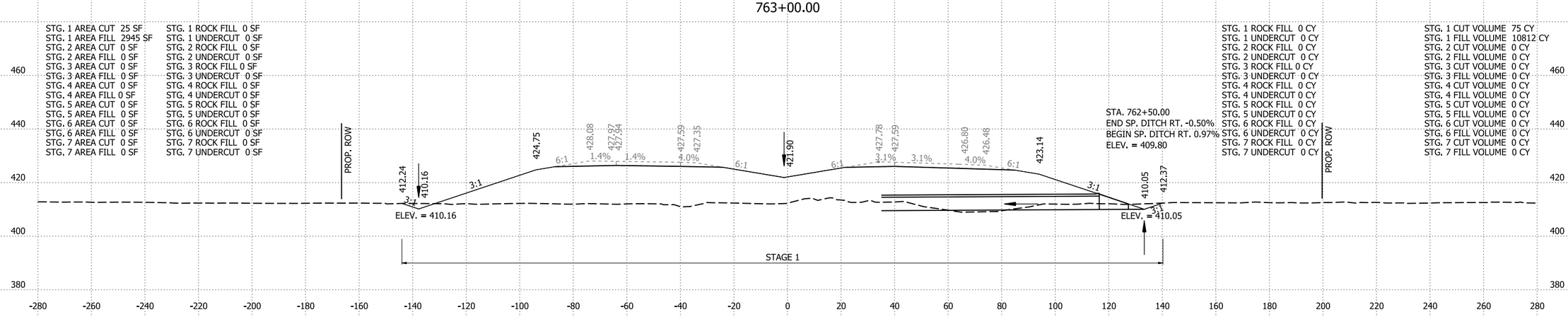
763+00.00

STG. 1 AREA CUT 25 SF
STG. 1 AREA FILL 2945 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 75 CY
STG. 1 FILL VOLUME 10812 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



762+00.00

I-49 STA. 762+00 TO STA. 764+00

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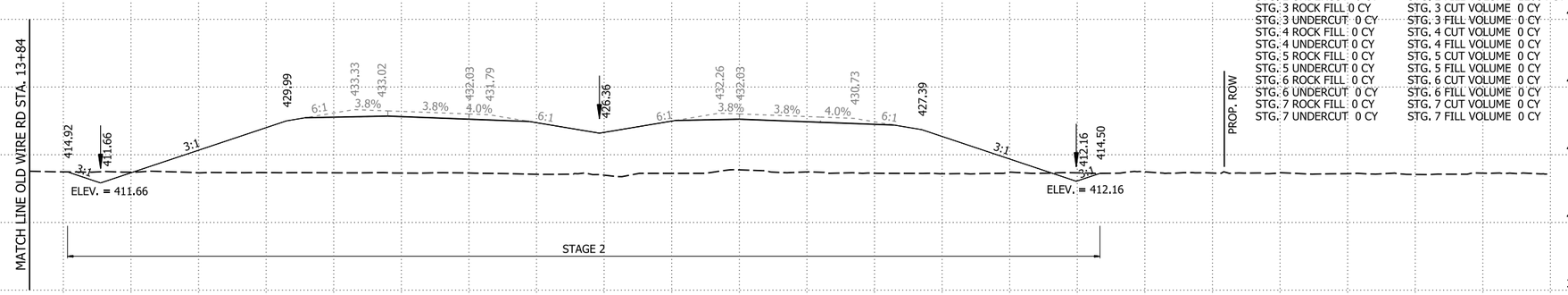
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	569	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 50 SF
STG. 2 AREA FILL 3444 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 183 CY
STG. 2 FILL VOLUME 12084 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

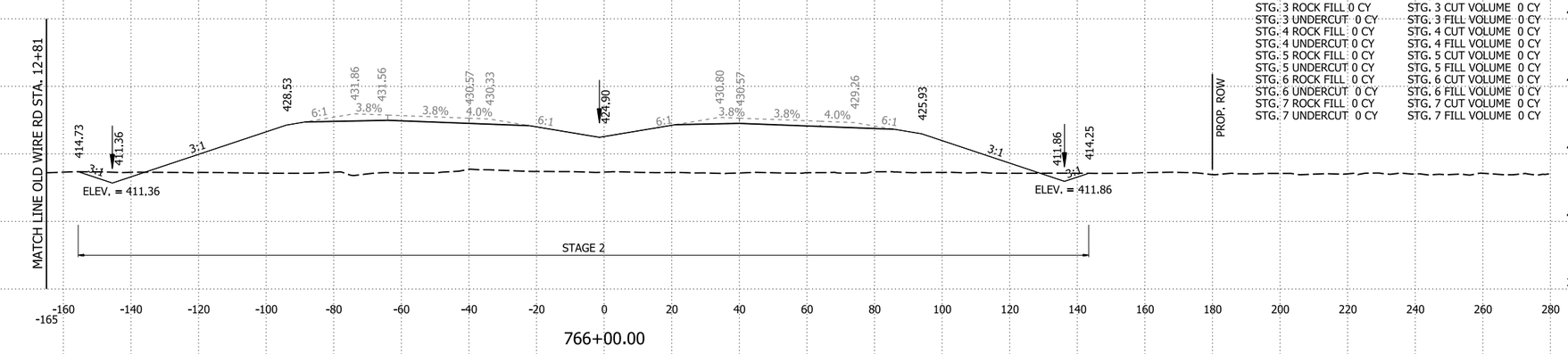


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 49 SF
STG. 2 AREA FILL 3082 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 152 CY
STG. 2 FILL VOLUME 11069 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 33 SF
STG. 2 AREA FILL 2896 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 84 CY
STG. 1 FILL VOLUME 5238 CY
STG. 2 CUT VOLUME 61 CY
STG. 2 FILL VOLUME 5362 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
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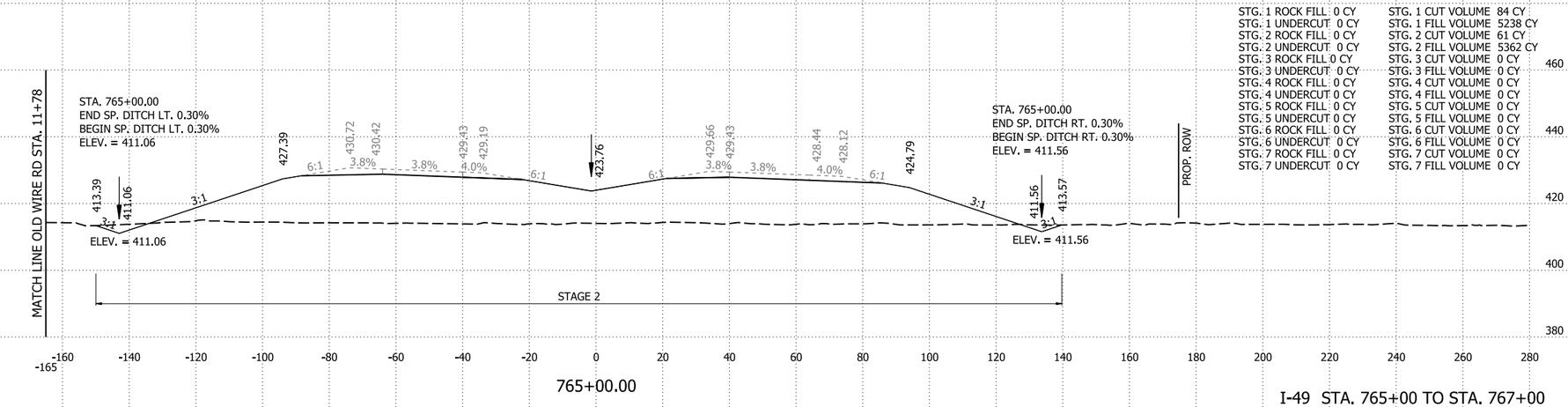
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



I-49 STA. 765+00 TO STA. 767+00

4/30/2026 8:14:29 AM
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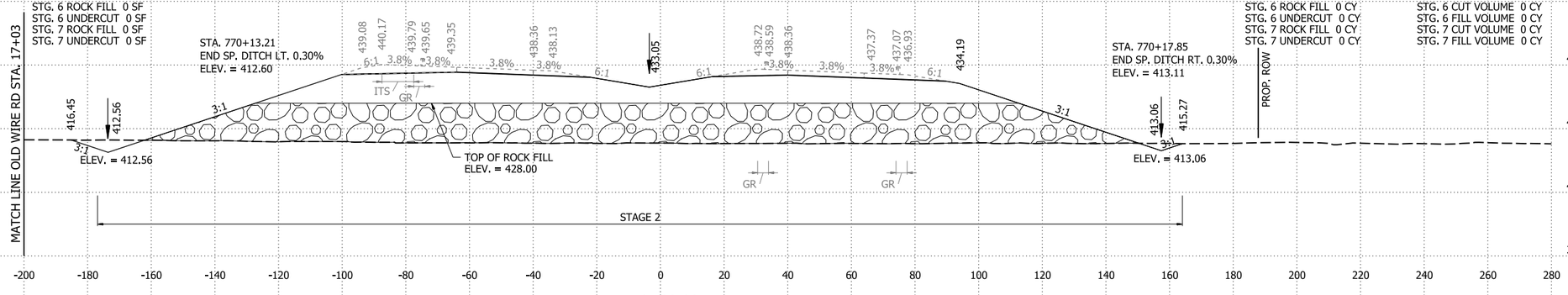
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	570	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 60 SF
STG. 2 AREA FILL 1771 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 3345 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 12458 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 182 CY
STG. 2 FILL VOLUME 5545 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



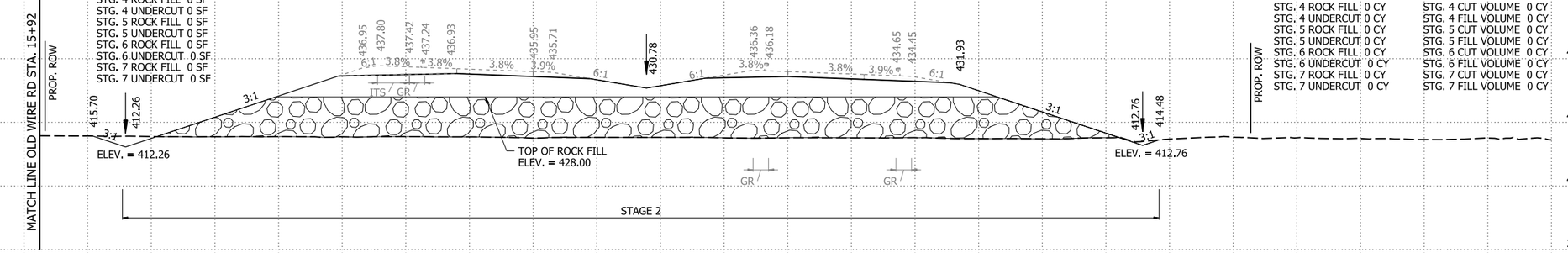
770+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 39 SF
STG. 2 AREA FILL 1223 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 3382 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 2243 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 158 CY
STG. 2 FILL VOLUME 9658 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



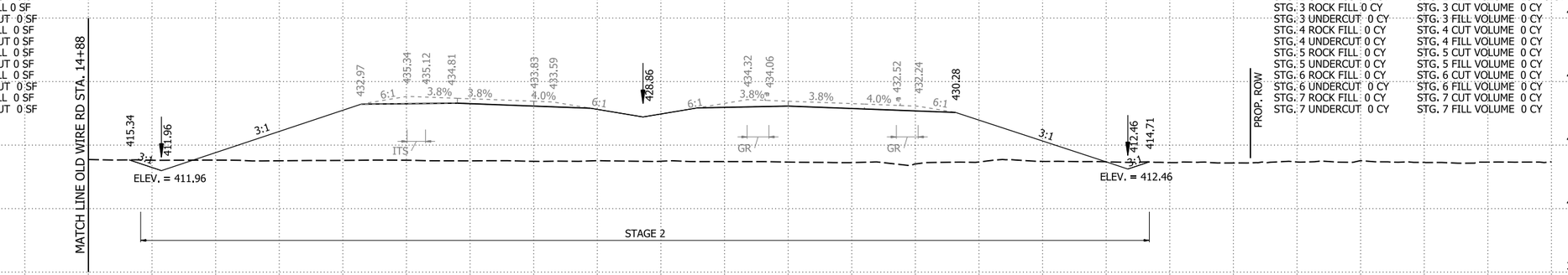
769+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 47 SF
STG. 2 AREA FILL 3992 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 178 CY
STG. 2 FILL VOLUME 13770 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



768+00.00

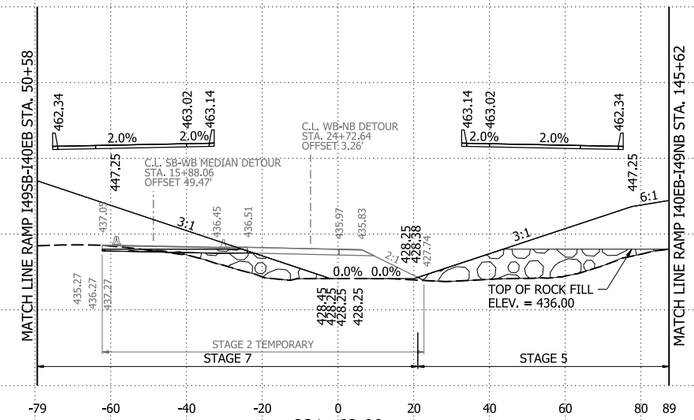
I-49 STA. 768+00 TO STA. 770+00

9/3/2026 2:23:07 PM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	571	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 13 SF
STG. 2 AREA FILL 170 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 310 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 276 SF
STG. 7 AREA FILL 471 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 122 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 314 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 31 SF
STG. 7 UNDERCUT 0 SF



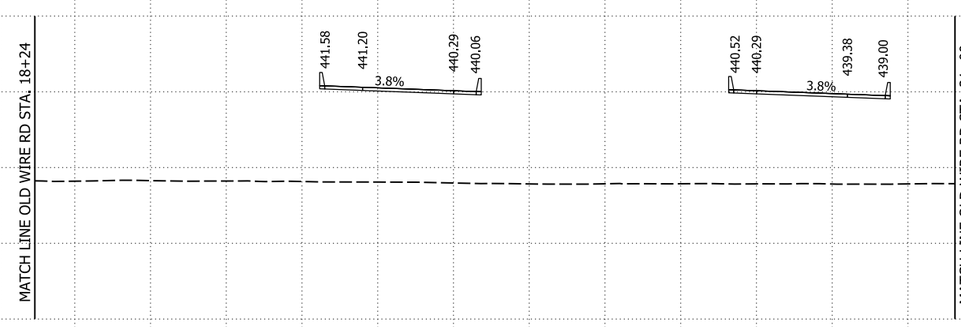
831+62.09
FUTURE BRIDGE BY OTHERS TOE OF SLOPE

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 9 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 24 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 2 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



770+78.28
FUTURE BRIDGE BY OTHERS TOE OF SLOPE

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 2518 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

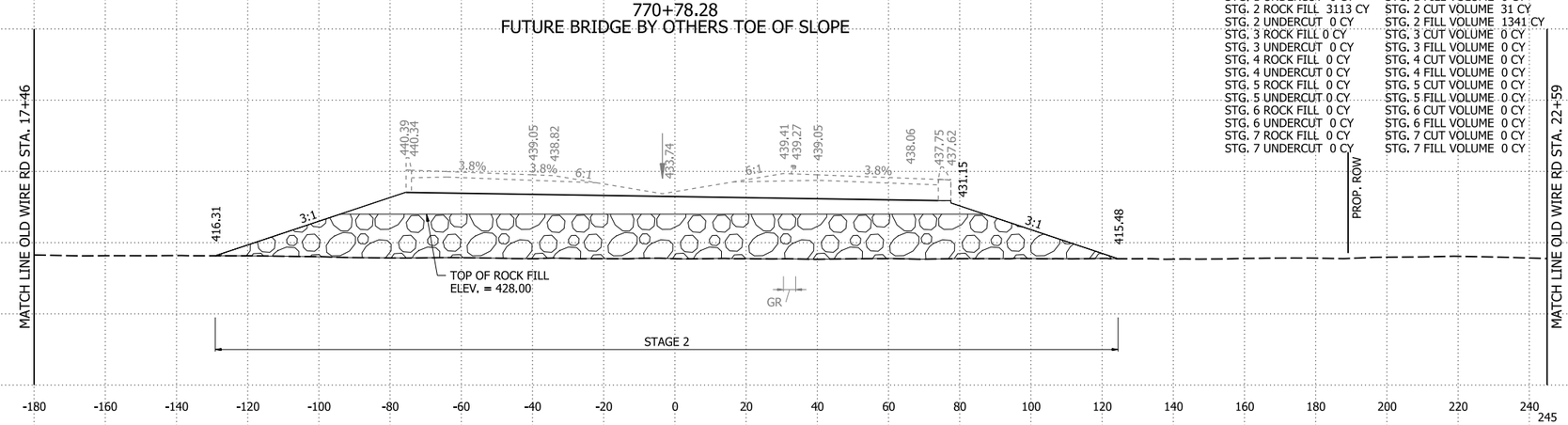
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 775 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 830 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 2695 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 3113 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 31 CY
STG. 2 FILL VOLUME 1341 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



770+27.92
BEGIN FUTURE BRIDGE BY OTHERS

I-49 STA. 770+27.92 TO STA. 831+62.09

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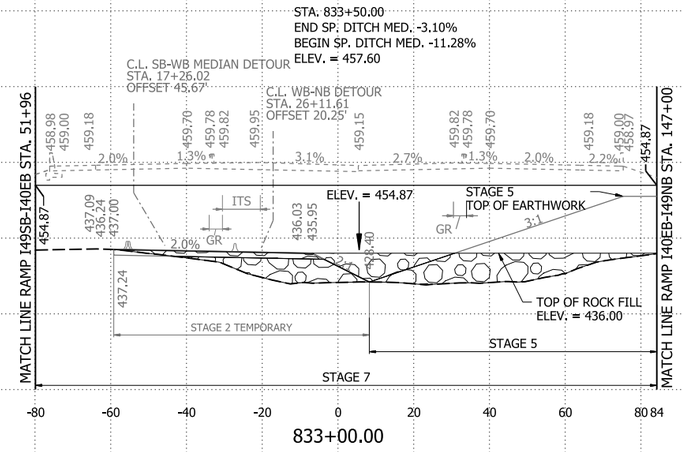
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	572	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 12 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 467 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 81 SF
STG. 7 AREA FILL 2430 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 184 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 355 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 211 SF
STG. 7 UNDERCUT 0 SF

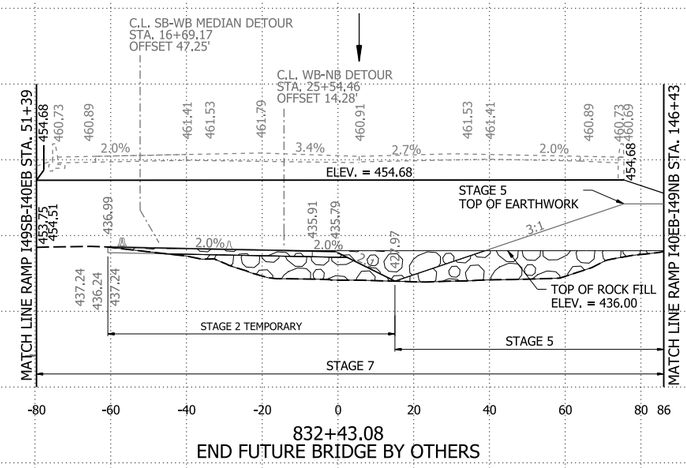


STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 427 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 719 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 479 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 25 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 869 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 182 CY
STG. 7 FILL VOLUME 5366 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 11 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 357 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 92 SF
STG. 7 AREA FILL 2669 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 222 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 327 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 243 SF
STG. 7 UNDERCUT 0 SF

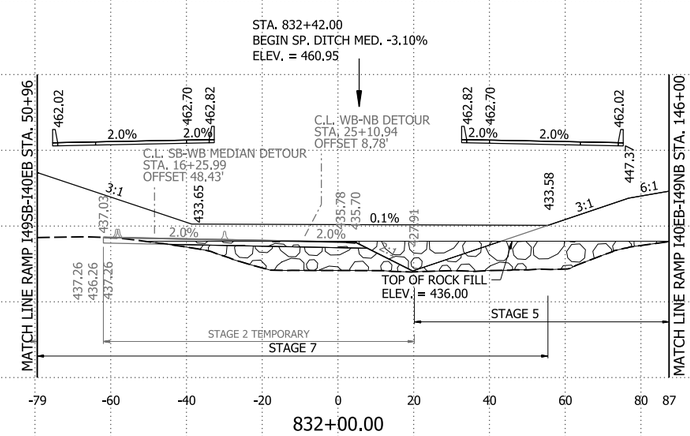


STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 391 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 501 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 372 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 21 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 542 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 155 CY
STG. 7 FILL VOLUME 2786 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 15 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 323 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 102 SF
STG. 7 AREA FILL 816 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 267 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 301 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 223 SF
STG. 7 UNDERCUT 0 SF



STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 273 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 432 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 178 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 20 CY
STG. 2 FILL VOLUME 120 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 444 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0CY
STG. 7 CUT VOLUME 265 CY
STG. 7 FILL VOLUME 903 CY

I-49 STA. 832+00 TO STA. 833+00

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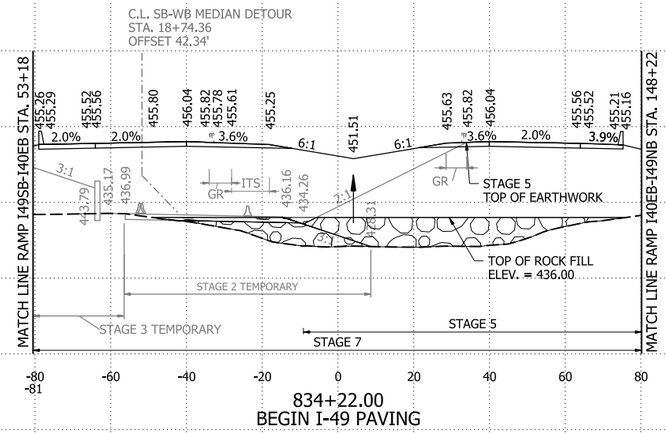
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	573	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 9 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 3 SF
STG. 3 AREA FILL 157 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 1244 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 66 SF
STG. 7 AREA FILL 1486 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 149 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 444 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 36 SF
STG. 7 UNDERCUT 0 SF



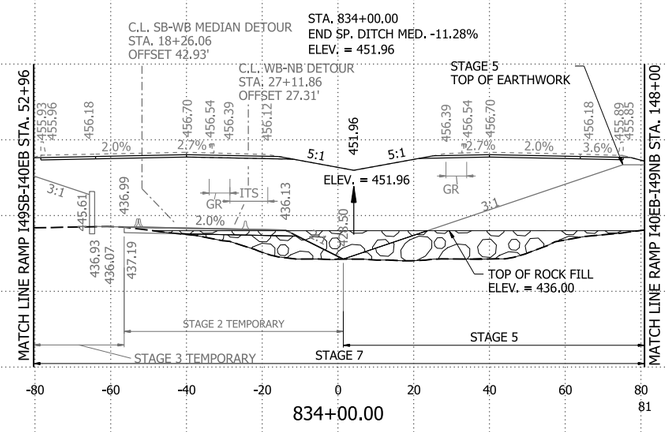
834+22.00
BEGIN I-49 PAVING

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 112 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 321 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 86 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 8 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 2 CY
STG. 3 FILL VOLUME 131 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 730 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 54 CY
STG. 7 FILL VOLUME 1534 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 10 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 3 SF
STG. 3 AREA FILL 163 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 549 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 66 SF
STG. 7 AREA FILL 2278 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 125 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 344 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 175 SF
STG. 7 UNDERCUT 0 SF



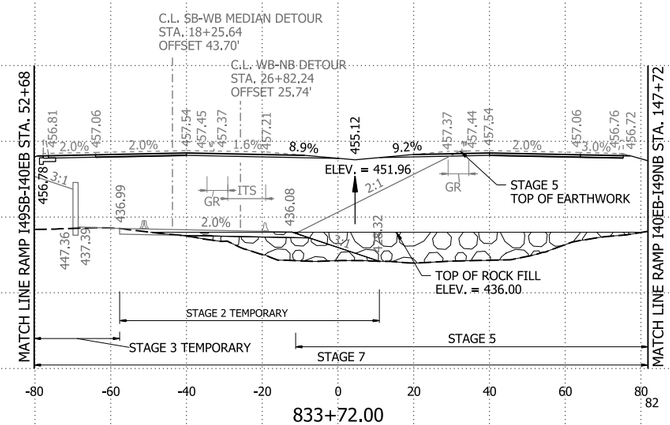
834+00.00

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 151 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 418 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 112 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 11 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 3 CY
STG. 3 FILL VOLUME 150 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 1036 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 71 CY
STG. 7 FILL VOLUME 2008 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 11 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 3 SF
STG. 3 AREA FILL 125 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 1450 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 72 SF
STG. 7 AREA FILL 1594 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 166 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 463 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 40 SF
STG. 7 UNDERCUT 0 SF



833+72.00
BEGIN BASE COURSE

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 466 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 1090 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 335 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 31 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 2557 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 203 CY
STG. 7 FILL VOLUME 5366 CY

I-49 STA. 833+72 TO STA. 834+22

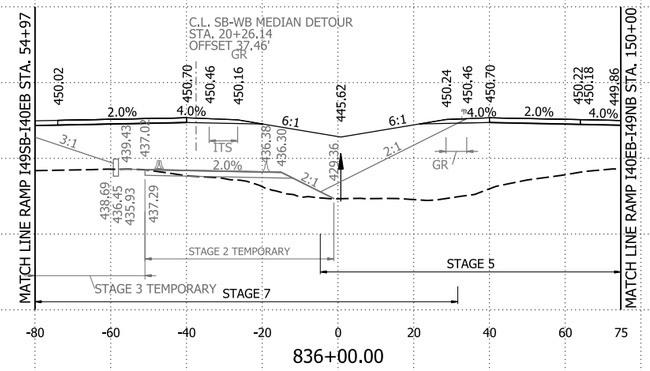
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	574	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 9 SF
STG. 2 AREA FILL 67 SF
STG. 3 AREA CUT 2 SF
STG. 3 AREA FILL 107 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 1032 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 56 SF
STG. 7 AREA FILL 1155 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 128 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 428 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 176 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 36 CY
STG. 2 FILL VOLUME 124 CY
STG. 3 CUT VOLUME 9 CY
STG. 3 FILL VOLUME 527 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 3339 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 212 CY
STG. 7 FILL VOLUME 4977 CY

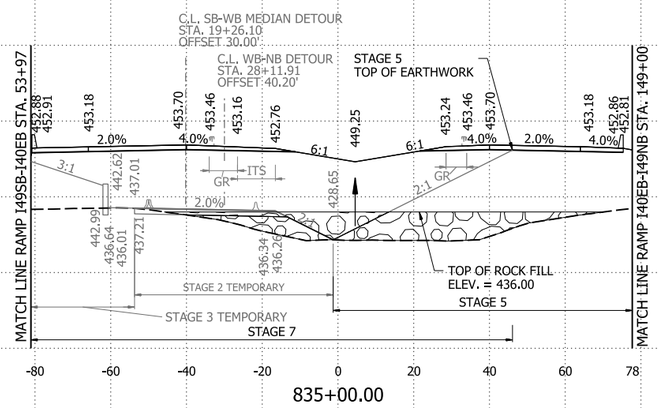


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 10 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 2 SF
STG. 3 AREA FILL 177 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 771 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 58 SF
STG. 7 AREA FILL 1532 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 99 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 330 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 136 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 347 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 1087 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 253 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 29 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 7 CY
STG. 3 FILL VOLUME 471 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 2829 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 159 CY
STG. 7 FILL VOLUME 4228 CY



STA. 834+24.00 OFFSET 71.25' LT.
CONSTRUCT TYPE ST DROP INLET LT.
IN S.B. ML SHLD (4'-0" X 3'-0" X H = 9'-4")
WITH 24" X 76' R.C. PIPE OUTLET
TO FES LT.
(CLASS III)(TYPE 3 BEDDING)
24" FES = 1 EACH

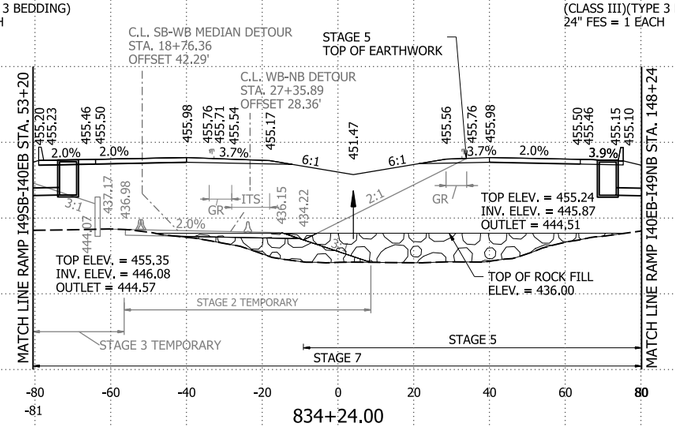
STA. 834+24.00 OFFSET 71.25' RT.
CONSTRUCT TYPE ST DROP INLET RT.
IN N.B. ML SHLD (4'-0" X 3'-0" X H = 9'-4")
WITH 24" X 76' R.C. PIPE OUTLET
TO FES RT.
(CLASS III)(TYPE 3 BEDDING)
24" FES = 1 EACH

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 10 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 3 SF
STG. 3 AREA FILL 158 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 1239 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 55 SF
STG. 7 AREA FILL 1482 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 147 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 443 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 44 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 11 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 33 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 3 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 1 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 12 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 92 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 4 CY
STG. 7 FILL VOLUME 110 CY



I-49 STA. 834+24 TO STA. 836+00

4/30/2026 8:15:06 AM
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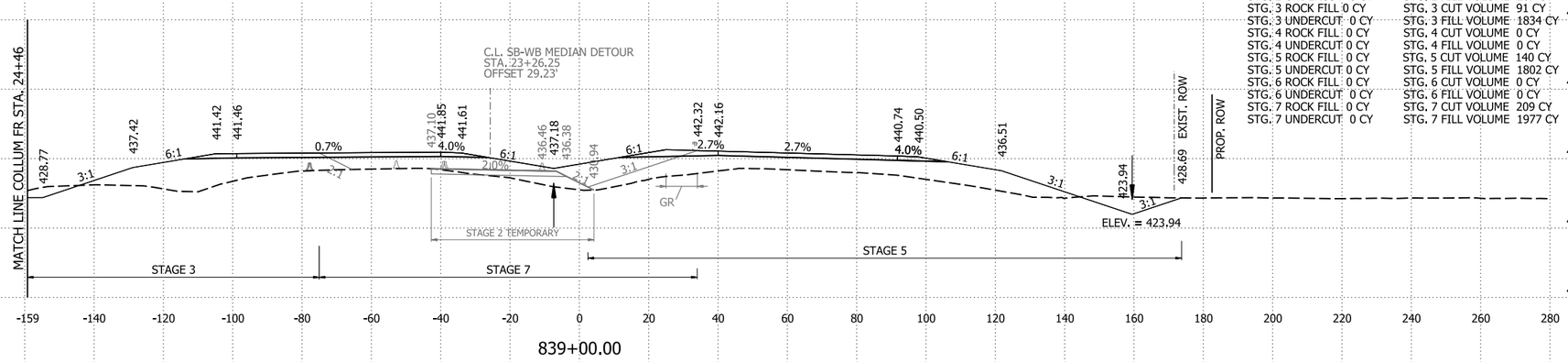
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	575	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 11 SF
STG. 2 AREA FILL 53 SF
STG. 3 AREA CUT 28 SF
STG. 3 AREA FILL 406 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 76 SF
STG. 5 AREA FILL 580 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 56 SF
STG. 7 AREA FILL 389 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 41 CY
STG. 2 FILL VOLUME 207 CY
STG. 3 CUT VOLUME 91 CY
STG. 3 FILL VOLUME 1834 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 140 CY
STG. 5 FILL VOLUME 1802 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 209 CY
STG. 7 FILL VOLUME 1977 CY



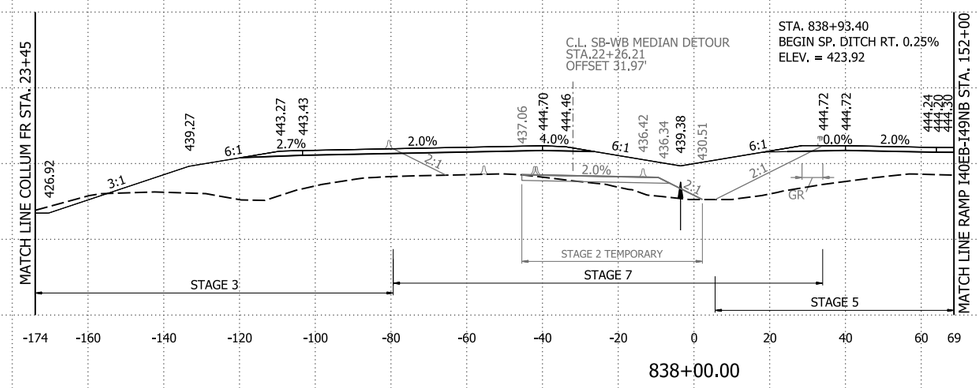
839+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 11 SF
STG. 2 AREA FILL 59 SF
STG. 3 AREA CUT 22 SF
STG. 3 AREA FILL 585 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 393 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 56 SF
STG. 7 AREA FILL 678 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 46 CY
STG. 2 FILL VOLUME 234 CY
STG. 3 CUT VOLUME 57 CY
STG. 3 FILL VOLUME 2737 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 2001 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 209 CY
STG. 7 FILL VOLUME 2951 CY



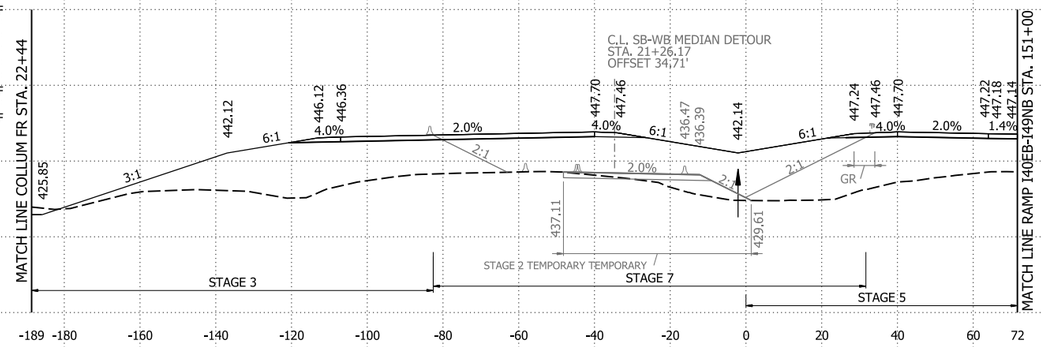
838+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 14 SF
STG. 2 AREA FILL 67 SF
STG. 3 AREA CUT 9 SF
STG. 3 AREA FILL 893 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 687 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 56 SF
STG. 7 AREA FILL 915 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 42 CY
STG. 2 FILL VOLUME 249 CY
STG. 3 CUT VOLUME 21 CY
STG. 3 FILL VOLUME 1853 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 3184 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 209 CY
STG. 7 FILL VOLUME 3834 CY



837+00.00

I-49 STA. 837+00 TO STA. 839+00

9/3/2026 2:23:11 PM
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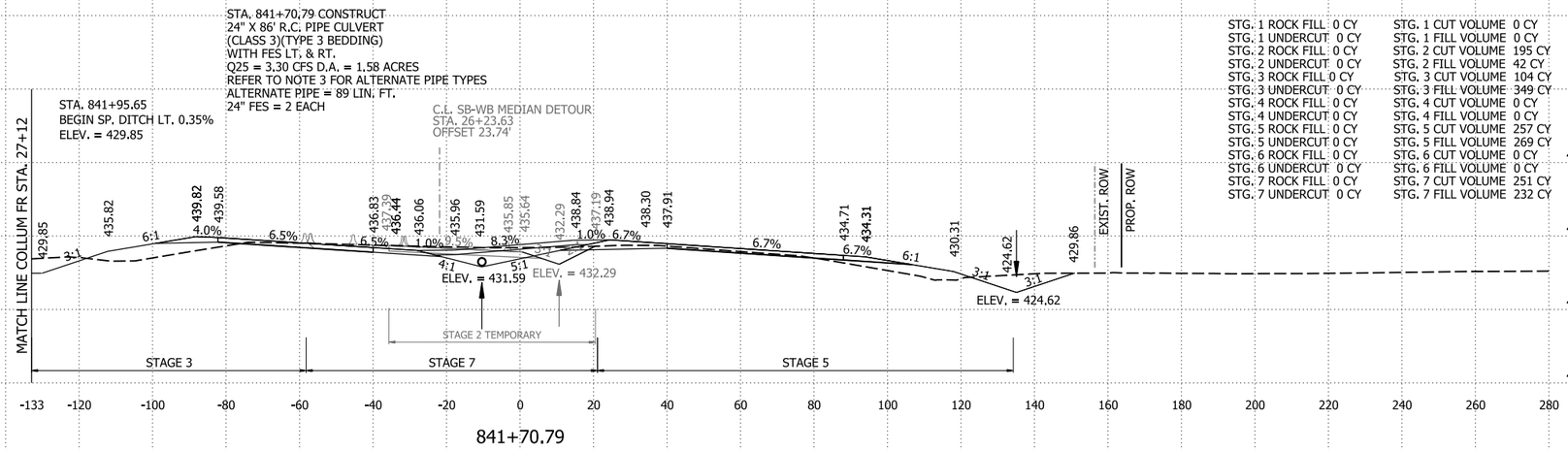
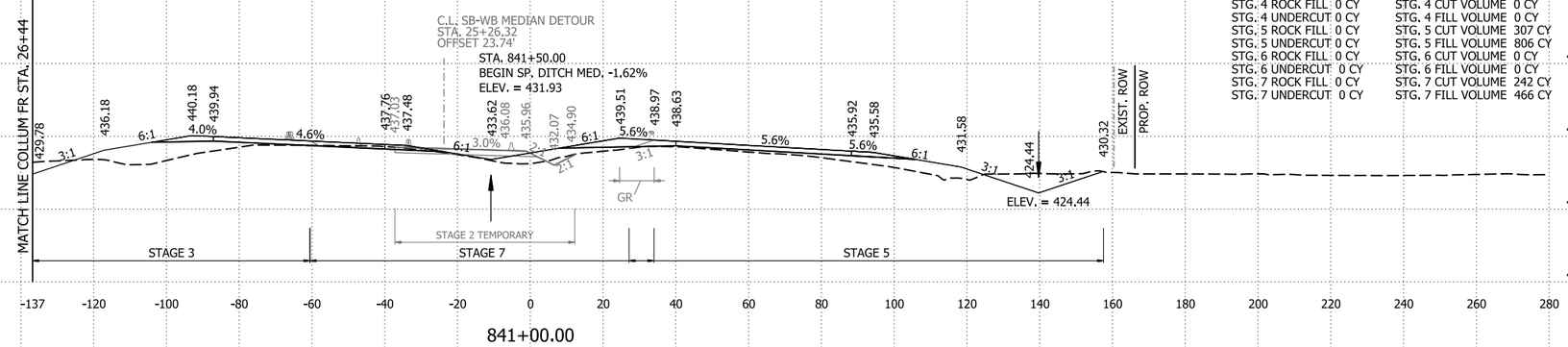
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	576	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 128 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 58 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 101 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 111 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 73 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 117 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 112 SF	STG. 7 UNDERCUT 0 SF



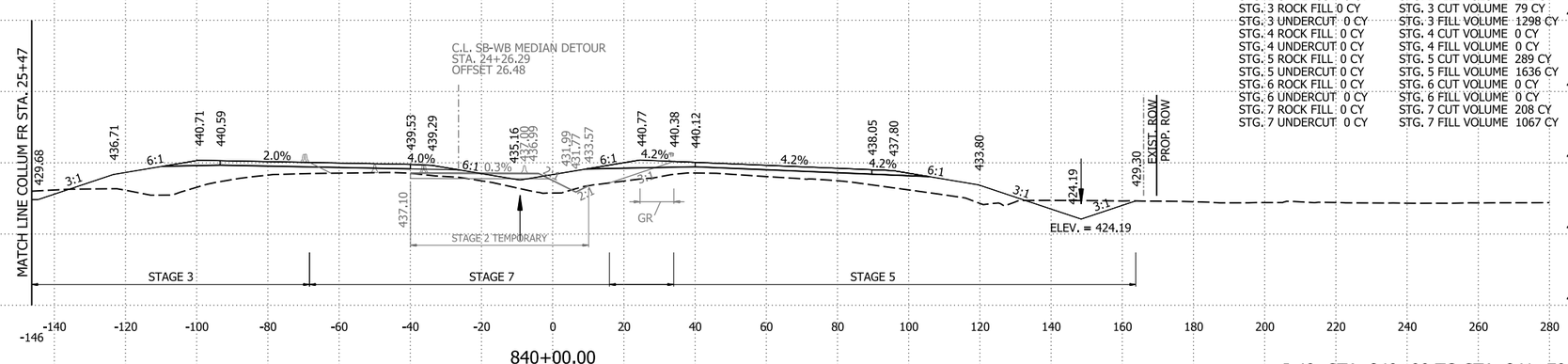
STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 195 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 42 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 104 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 349 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 257 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 269 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 251 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 232 CY

STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 21 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 32 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 19 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 165 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 85 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 132 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 74 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 65 SF	STG. 7 UNDERCUT 0 SF



STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 64 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 174 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 63 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 853 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 307 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 806 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 242 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 466 CY

STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 14 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 62 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 15 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 295 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 81 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 303 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 56 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 187 SF	STG. 7 UNDERCUT 0 SF



STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 46 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 212 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 79 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 1298 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 289 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 1636 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 208 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 1067 CY

I-49 STA. 840+00 TO STA. 841+70.79

4/30/2026 8:15:07 AM
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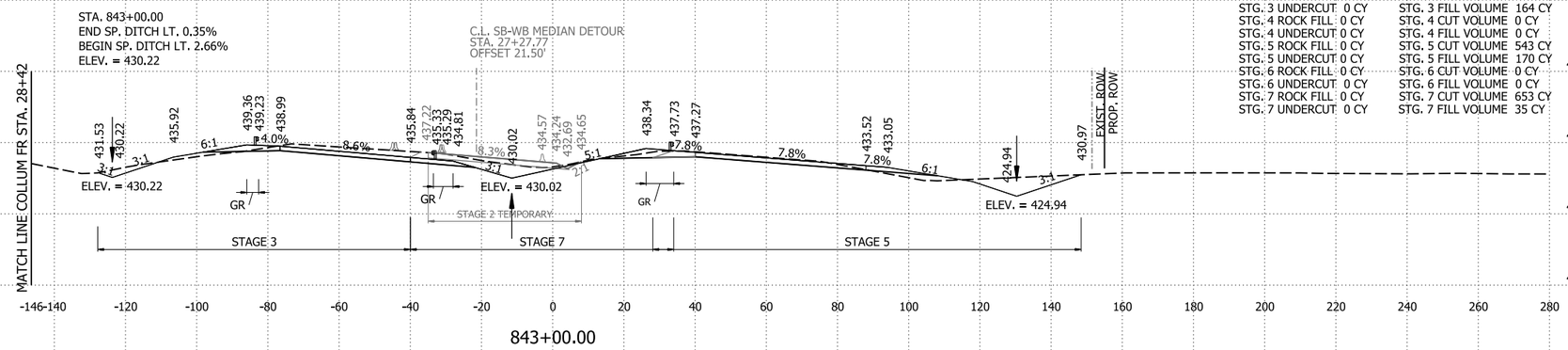
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	577	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 25 SF
STG. 2 AREA FILL 1 SF
STG. 3 AREA CUT 119 SF
STG. 3 AREA FILL 15 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 161 SF
STG. 5 AREA FILL 23 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 174 SF
STG. 7 AREA FILL 3 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 134 CY
STG. 2 FILL VOLUME 1 CY
STG. 3 CUT VOLUME 310 CY
STG. 3 FILL VOLUME 164 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 543 CY
STG. 5 FILL VOLUME 170 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 653 CY
STG. 7 FILL VOLUME 35 CY

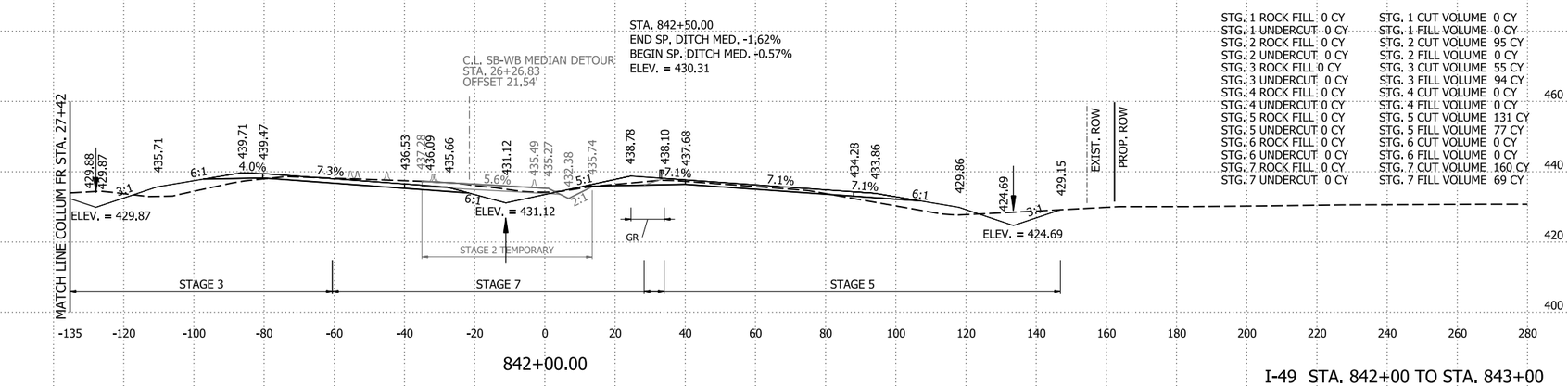


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 47 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 48 SF
STG. 3 AREA FILL 74 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 132 SF
STG. 5 AREA FILL 69 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 178 SF
STG. 7 AREA FILL 16 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 95 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 55 CY
STG. 3 FILL VOLUME 94 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 131 CY
STG. 5 FILL VOLUME 77 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 160 CY
STG. 7 FILL VOLUME 69 CY



I-49 STA. 842+00 TO STA. 843+00

9/3/2026 2:23:12 PM
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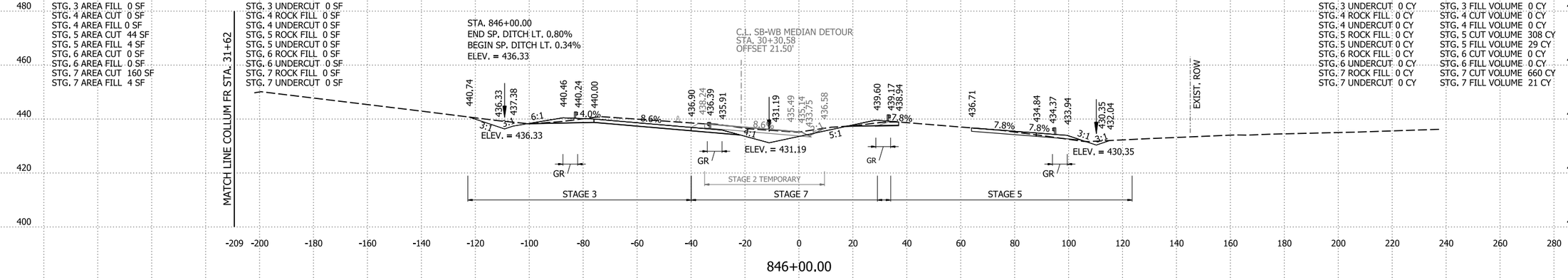
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	578	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 59 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 142 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 44 SF
STG. 5 AREA FILL 4 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 160 SF
STG. 7 AREA FILL 4 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 203 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 500 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 308 CY
STG. 5 FILL VOLUME 29 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 660 CY
STG. 7 FILL VOLUME 21 CY

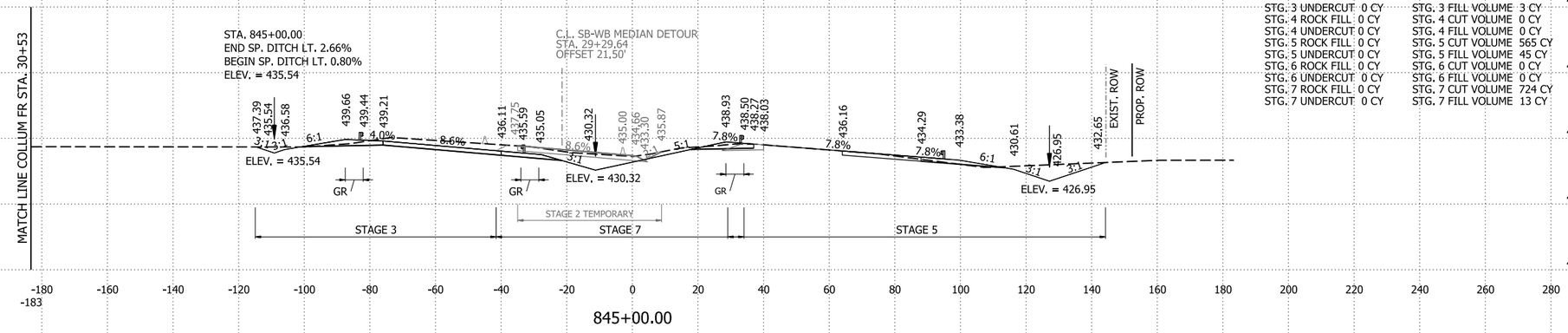


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 50 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 128 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 123 SF
STG. 5 AREA FILL 12 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 196 SF
STG. 7 AREA FILL 7 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 175 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 525 CY
STG. 3 FILL VOLUME 3 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 565 CY
STG. 5 FILL VOLUME 45 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 724 CY
STG. 7 FILL VOLUME 13 CY

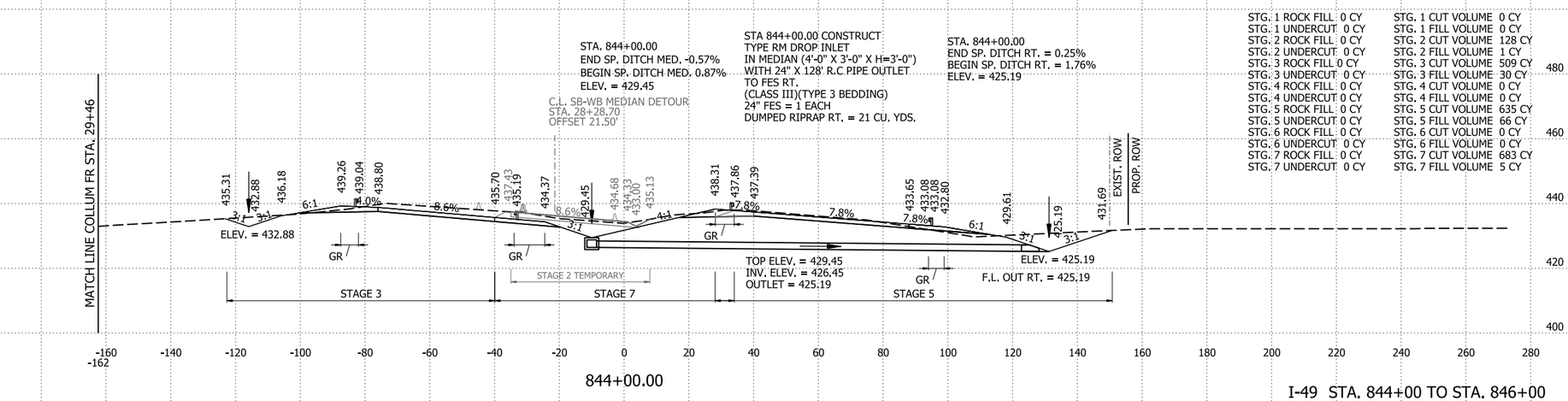


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 44 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 156 SF
STG. 3 AREA FILL 1 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 182 SF
STG. 5 AREA FILL 12 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 195 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 128 CY
STG. 2 FILL VOLUME 1 CY
STG. 3 CUT VOLUME 509 CY
STG. 3 FILL VOLUME 30 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 635 CY
STG. 5 FILL VOLUME 66 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 683 CY
STG. 7 FILL VOLUME 5 CY



I-49 STA. 844+00 TO STA. 846+00

4/30/2026 8:15:08 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	579	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 26 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 104 SF
STG. 3 AREA FILL 17 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 38 SF
STG. 5 AREA FILL 10 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 133 SF
STG. 7 AREA FILL 7 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 849+75.00
END SP. DITCH LT. 1.41%
BEGIN SP. DITCH LT. 0.83%
ELEV. = 438.95

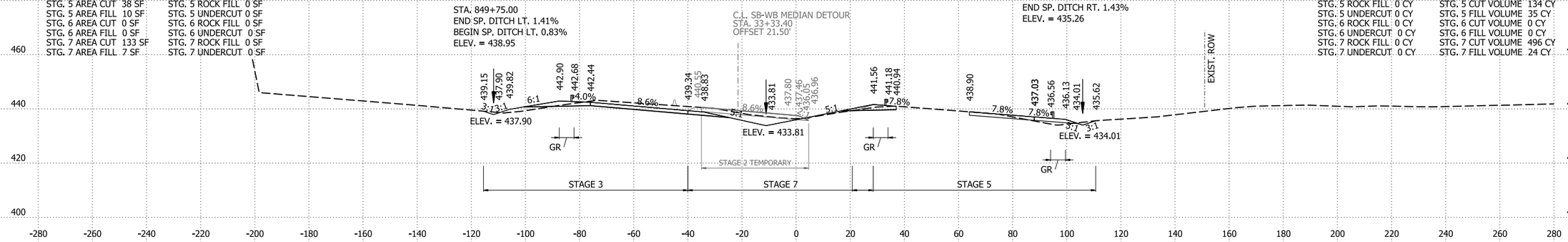
C.L. SB-WB MEDIAN DETOUR
STA. 33+33.40
OFFSET 21.50'

STA. 849+00.00
END SP. DITCH RT. 1.76%
BEGIN SP. DITCH RT. 1.43%
ELEV. = 434.01

STA. 849+87.38
END SP. DITCH RT. 1.43%
ELEV. = 435.26

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 105 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 395 CY
STG. 3 FILL VOLUME 39 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 134 CY
STG. 5 FILL VOLUME 35 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 496 CY
STG. 7 FILL VOLUME 24 CY



849+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 30 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 109 SF
STG. 3 AREA FILL 4 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 35 SF
STG. 5 AREA FILL 9 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 135 SF
STG. 7 AREA FILL 6 SF

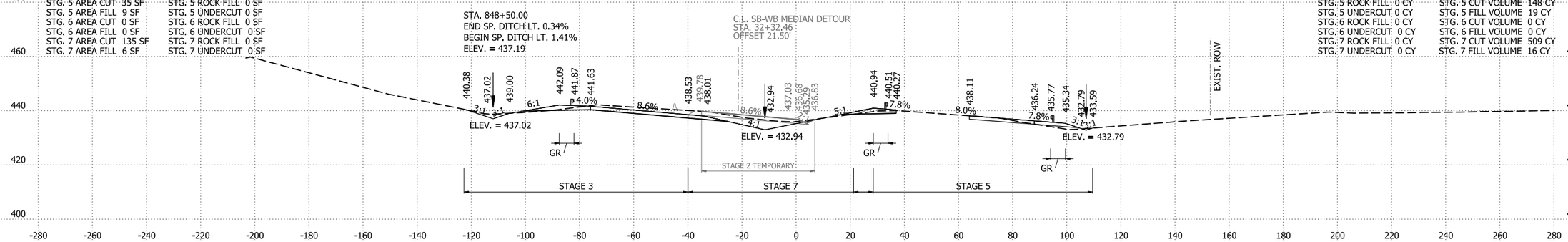
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STA. 848+50.00
END SP. DITCH LT. 0.34%
BEGIN SP. DITCH LT. 1.41%
ELEV. = 437.19

C.L. SB-WB MEDIAN DETOUR
STA. 32+32.46
OFFSET 21.50'

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 142 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 459 CY
STG. 3 FILL VOLUME 7 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 148 CY
STG. 5 FILL VOLUME 19 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 509 CY
STG. 7 FILL VOLUME 16 CY



848+00.00

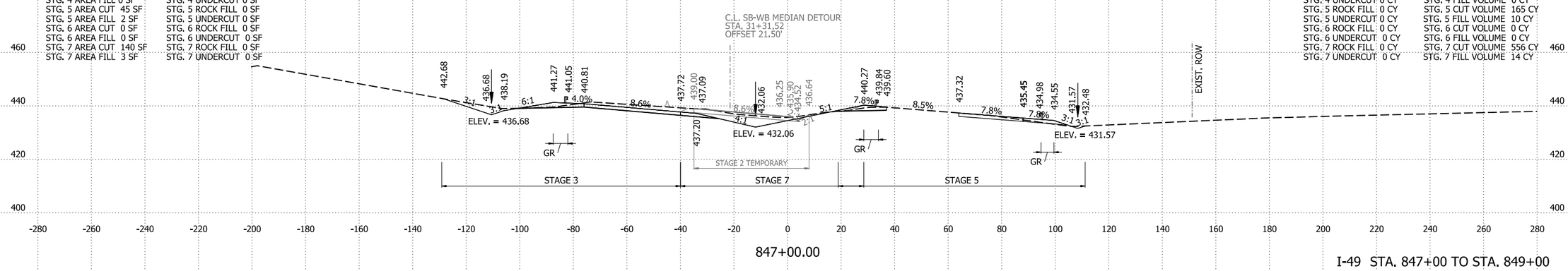
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 46 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 139 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 45 SF
STG. 5 AREA FILL 2 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 140 SF
STG. 7 AREA FILL 3 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

C.L. SB-WB MEDIAN DETOUR
STA. 31+31.52
OFFSET 21.50'

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 195 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 520 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 165 CY
STG. 5 FILL VOLUME 10 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 556 CY
STG. 7 FILL VOLUME 14 CY



847+00.00

I-49 STA. 847+00 TO STA. 849+00

4/30/2026 8:15:09 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	580	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 16 SF
STG. 2 AREA FILL 7 SF
STG. 3 AREA CUT 83 SF
STG. 3 AREA FILL 23 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 49 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 130 SF
STG. 7 AREA FILL 6 SF

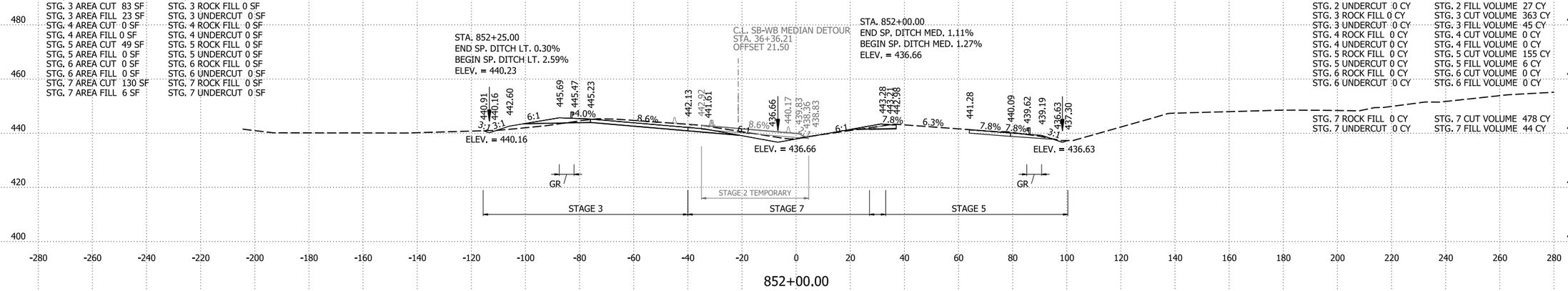
STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 59 CY
STG. 2 FILL VOLUME 27 CY
STG. 3 CUT VOLUME 363 CY
STG. 3 FILL VOLUME 45 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 155 CY
STG. 5 FILL VOLUME 6 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY

STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 7 CUT VOLUME 478 CY
STG. 7 FILL VOLUME 44 CY

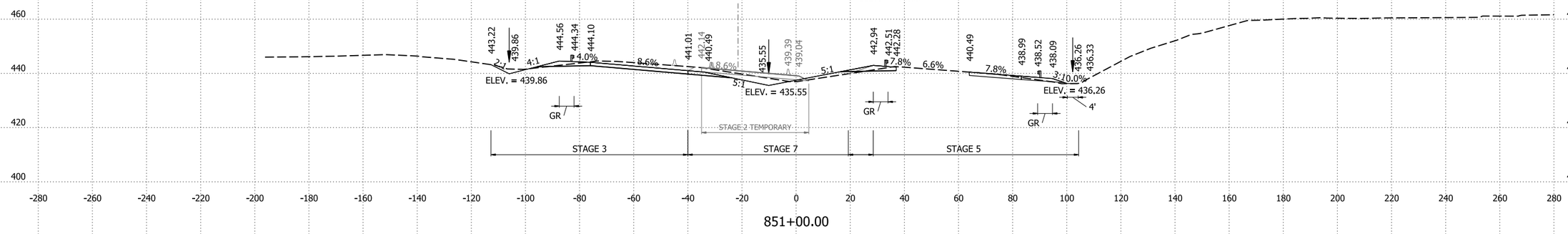


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 15 SF
STG. 2 AREA FILL 8 SF
STG. 3 AREA CUT 113 SF
STG. 3 AREA FILL 2 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 35 SF
STG. 5 AREA FILL 3 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 128 SF
STG. 7 AREA FILL 18 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 57 CY
STG. 2 FILL VOLUME 25 CY
STG. 3 CUT VOLUME 402 CY
STG. 3 FILL VOLUME 36 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 125 CY
STG. 5 FILL VOLUME 14 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 475 CY
STG. 7 FILL VOLUME 72 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 16 SF
STG. 2 AREA FILL 5 SF
STG. 3 AREA CUT 105 SF
STG. 3 AREA FILL 18 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 33 SF
STG. 5 AREA FILL 5 SF

STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 128 SF
STG. 7 AREA FILL 21 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF

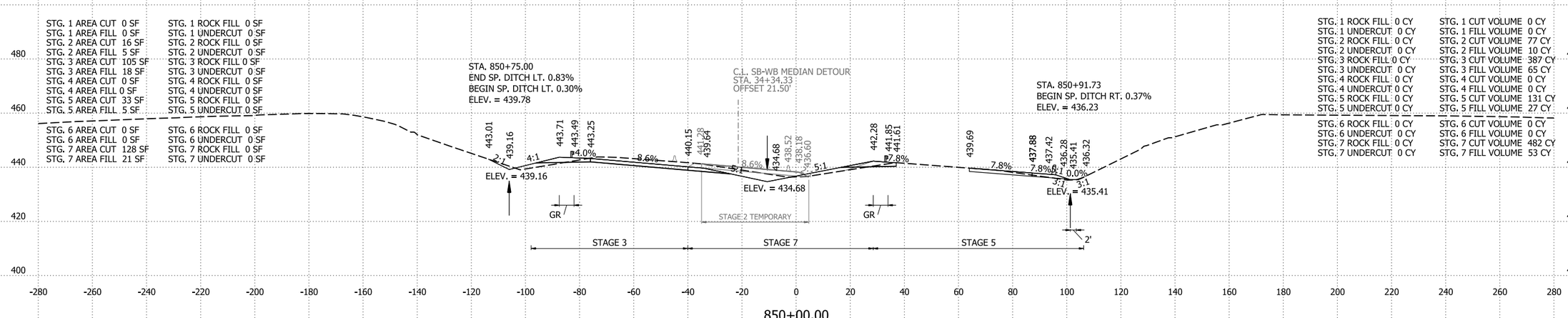
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY

STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 77 CY
STG. 2 FILL VOLUME 10 CY
STG. 3 CUT VOLUME 387 CY
STG. 3 FILL VOLUME 65 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 131 CY
STG. 5 FILL VOLUME 27 CY

STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 482 CY
STG. 7 FILL VOLUME 53 CY



I-49 STA. 850+00 TO STA. 852+00

4/30/2026 8:15:09 AM
R040904_22_CX.dgn

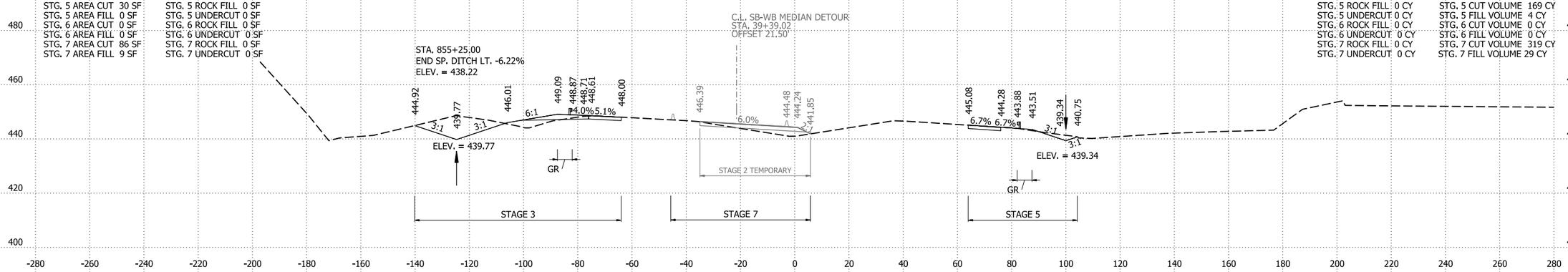
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	581	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 9 SF
STG. 2 AREA FILL 30 SF
STG. 3 AREA CUT 170 SF
STG. 3 AREA FILL 31 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 30 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 86 SF
STG. 7 AREA FILL 9 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 45 CY
STG. 2 FILL VOLUME 70 CY
STG. 3 CUT VOLUME 489 CY
STG. 3 FILL VOLUME 118 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 169 CY
STG. 5 FILL VOLUME 4 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 319 CY
STG. 7 FILL VOLUME 29 CY



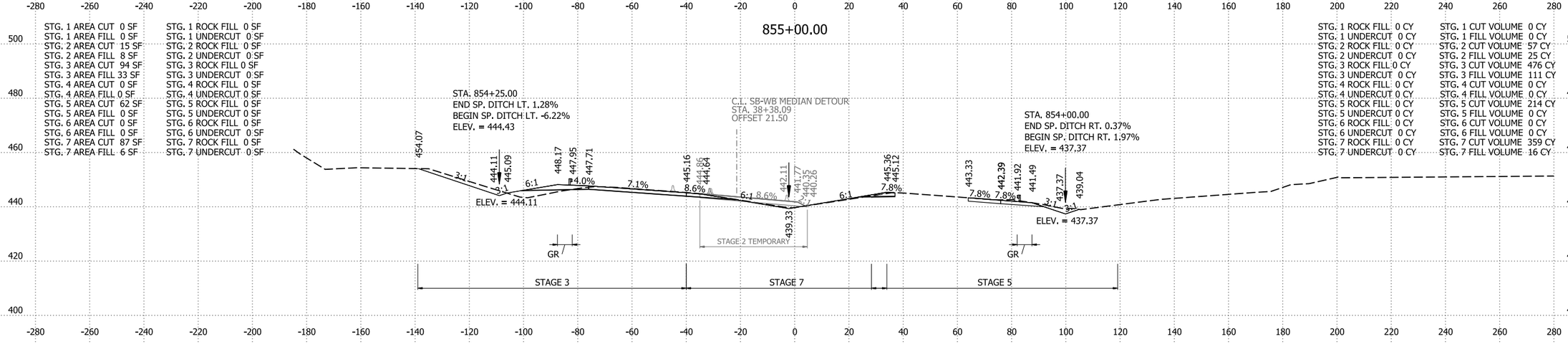
855+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 15 SF
STG. 2 AREA FILL 8 SF
STG. 3 AREA CUT 94 SF
STG. 3 AREA FILL 33 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 62 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 87 SF
STG. 7 AREA FILL 6 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 57 CY
STG. 2 FILL VOLUME 25 CY
STG. 3 CUT VOLUME 476 CY
STG. 3 FILL VOLUME 111 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 214 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 359 CY
STG. 7 FILL VOLUME 16 CY



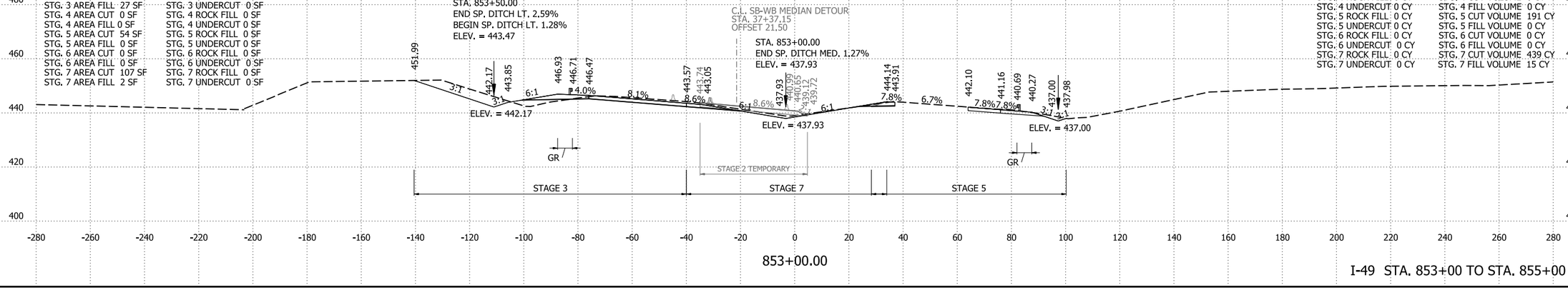
854+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 16 SF
STG. 2 AREA FILL 5 SF
STG. 3 AREA CUT 163 SF
STG. 3 AREA FILL 27 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 54 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 107 SF
STG. 7 AREA FILL 2 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 60 CY
STG. 2 FILL VOLUME 22 CY
STG. 3 CUT VOLUME 455 CY
STG. 3 FILL VOLUME 92 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 191 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 439 CY
STG. 7 FILL VOLUME 15 CY



853+00.00

I-49 STA. 853+00 TO STA. 855+00

4/30/2026 8:15:10 AM
R040904_22_CX.dgn

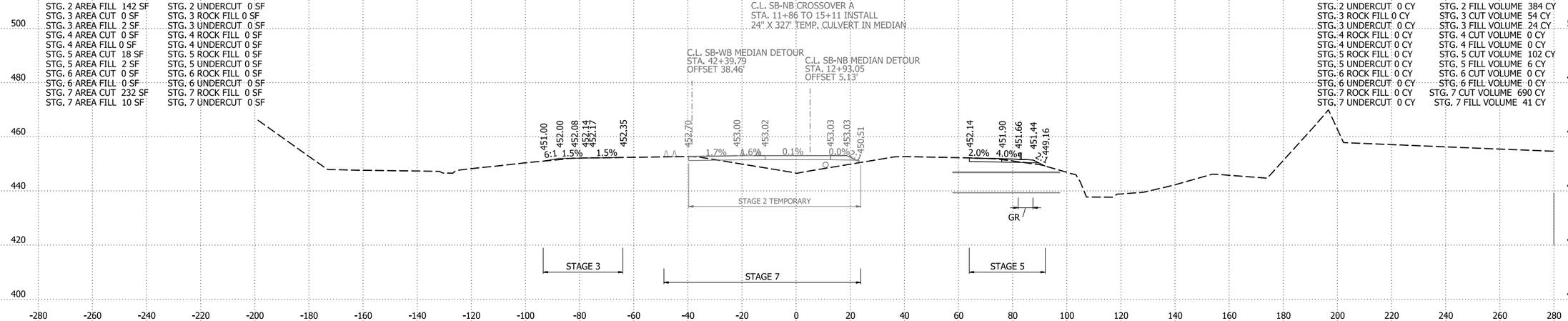
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	582	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 10 SF
STG. 2 AREA FILL 142 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 2 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 18 SF
STG. 5 AREA FILL 2 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 232 SF
STG. 7 AREA FILL 10 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 41 CY
STG. 2 FILL VOLUME 384 CY
STG. 3 CUT VOLUME 54 CY
STG. 3 FILL VOLUME 24 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 102 CY
STG. 5 FILL VOLUME 6 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 690 CY
STG. 7 FILL VOLUME 41 CY

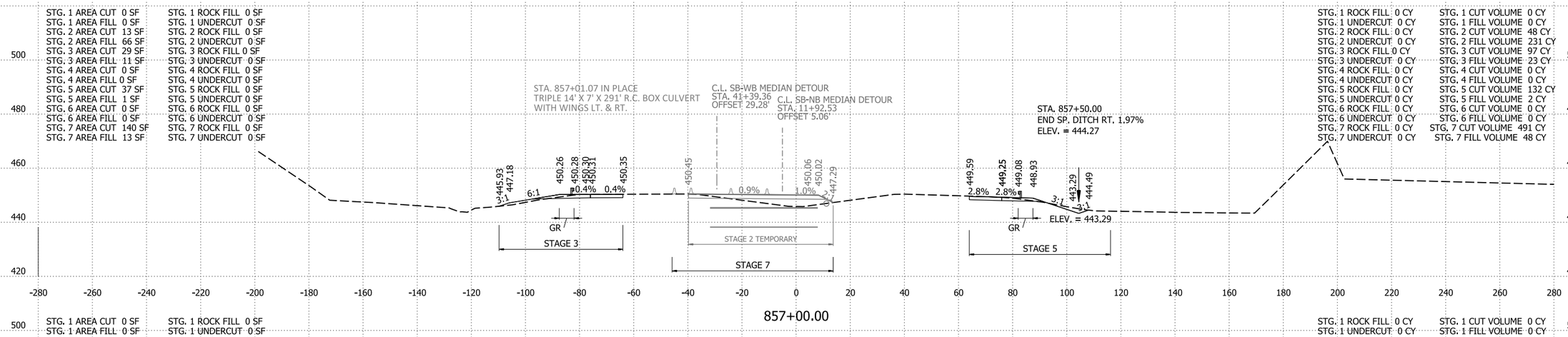


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 13 SF
STG. 2 AREA FILL 66 SF
STG. 3 AREA CUT 29 SF
STG. 3 AREA FILL 11 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 37 SF
STG. 5 AREA FILL 1 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 140 SF
STG. 7 AREA FILL 13 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 48 CY
STG. 2 FILL VOLUME 231 CY
STG. 3 CUT VOLUME 97 CY
STG. 3 FILL VOLUME 23 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 132 CY
STG. 5 FILL VOLUME 2 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 491 CY
STG. 7 FILL VOLUME 48 CY

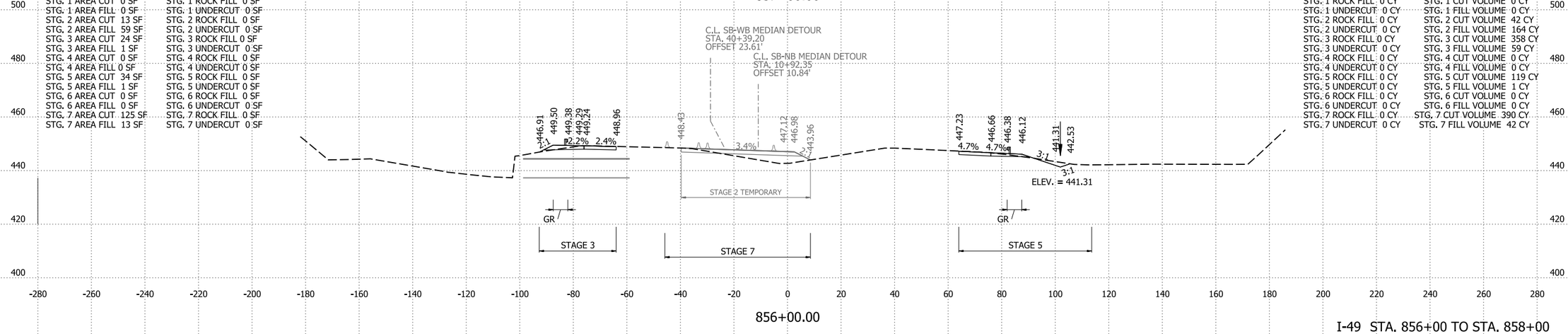


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 13 SF
STG. 2 AREA FILL 59 SF
STG. 3 AREA CUT 24 SF
STG. 3 AREA FILL 1 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 34 SF
STG. 5 AREA FILL 1 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 125 SF
STG. 7 AREA FILL 13 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 42 CY
STG. 2 FILL VOLUME 164 CY
STG. 3 CUT VOLUME 358 CY
STG. 3 FILL VOLUME 59 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 119 CY
STG. 5 FILL VOLUME 1 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 390 CY
STG. 7 FILL VOLUME 42 CY



I-49 STA. 856+00 TO STA. 858+00

4/30/2026 8:15:10 AM
R040904_22_CX.dgn

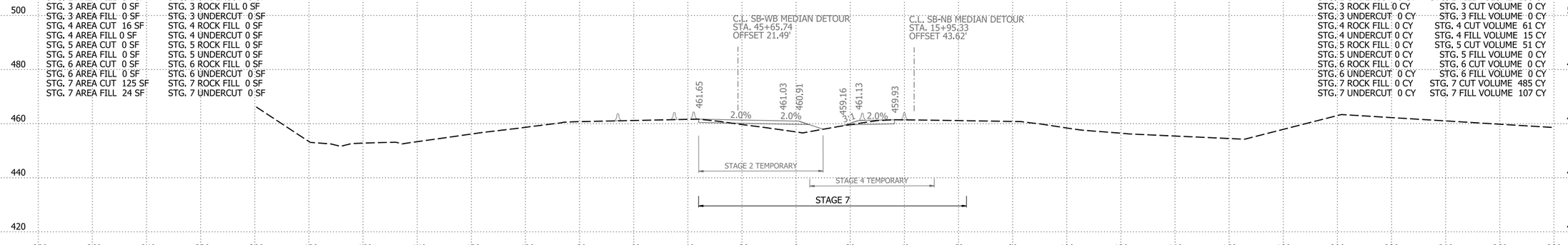
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	583	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 8 SF
STG. 2 AREA FILL 54 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 16 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 125 SF
STG. 7 AREA FILL 24 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 46 CY
STG. 2 FILL VOLUME 156 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 61 CY
STG. 4 FILL VOLUME 15 CY
STG. 5 CUT VOLUME 51 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 485 CY
STG. 7 FILL VOLUME 107 CY



861+00.00

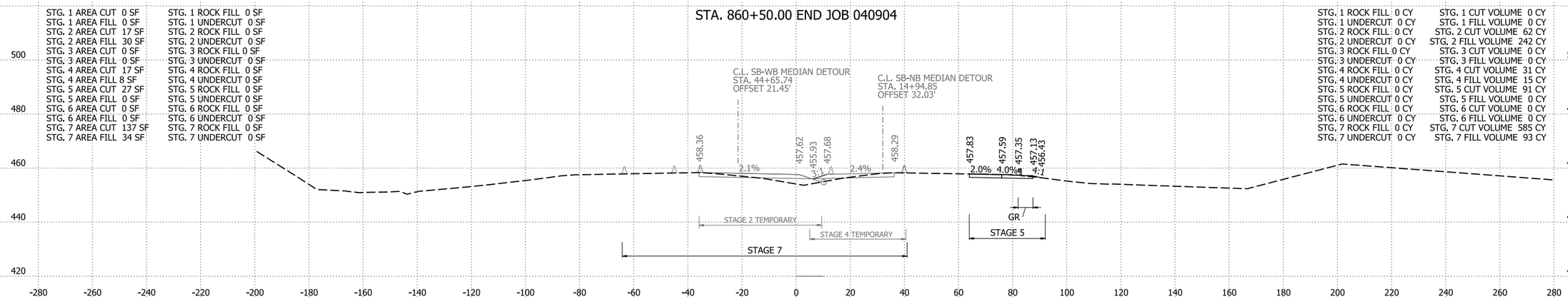
STA. 860+50.00 END JOB 040904

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 17 SF
STG. 2 AREA FILL 30 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 17 SF
STG. 4 AREA FILL 8 SF
STG. 5 AREA CUT 27 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 137 SF
STG. 7 AREA FILL 34 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 62 CY
STG. 2 FILL VOLUME 242 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 31 CY
STG. 4 FILL VOLUME 15 CY
STG. 5 CUT VOLUME 91 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 585 CY
STG. 7 FILL VOLUME 93 CY



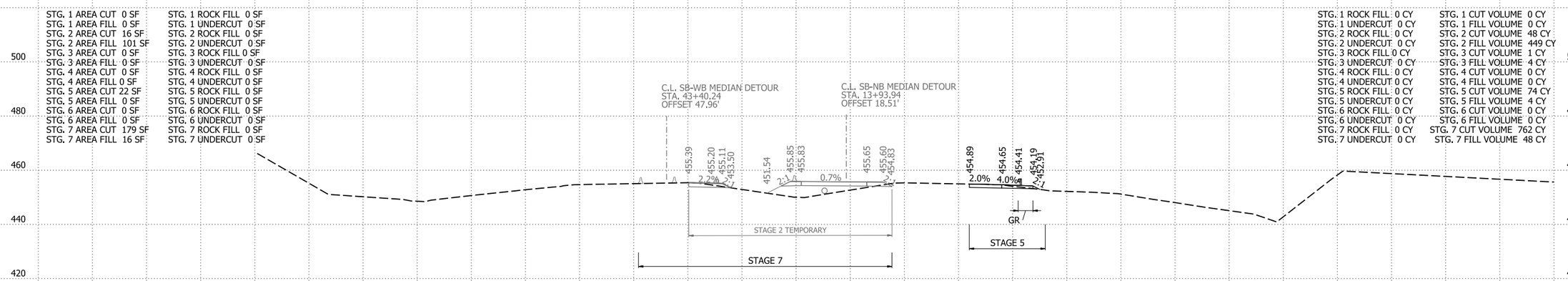
860+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 16 SF
STG. 2 AREA FILL 101 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 22 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 179 SF
STG. 7 AREA FILL 16 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 48 CY
STG. 2 FILL VOLUME 449 CY
STG. 3 CUT VOLUME 1 CY
STG. 3 FILL VOLUME 4 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 74 CY
STG. 5 FILL VOLUME 4 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 762 CY
STG. 7 FILL VOLUME 48 CY



859+00.00

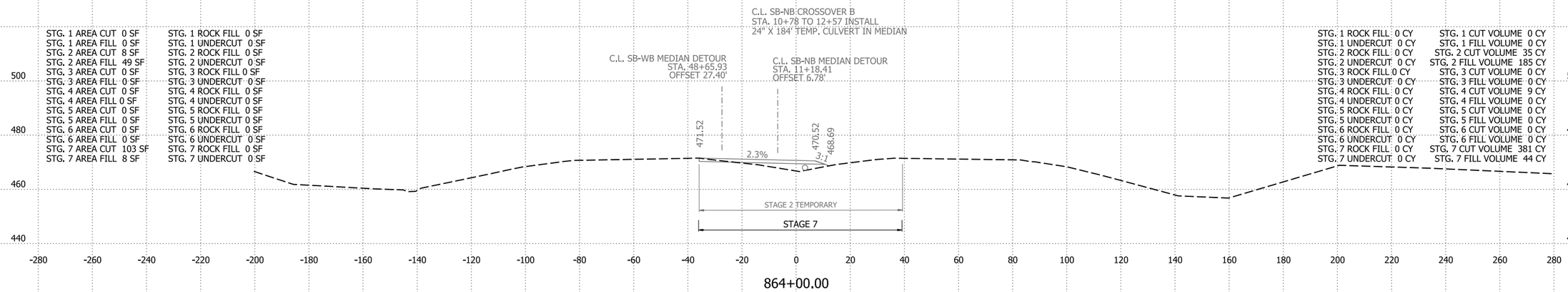
I-49 STA. 859+00 TO STA. 861+00

9/3/2026 2:23:16 PM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	584	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 8 SF
STG. 2 AREA FILL 49 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 103 SF
STG. 7 AREA FILL 8 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



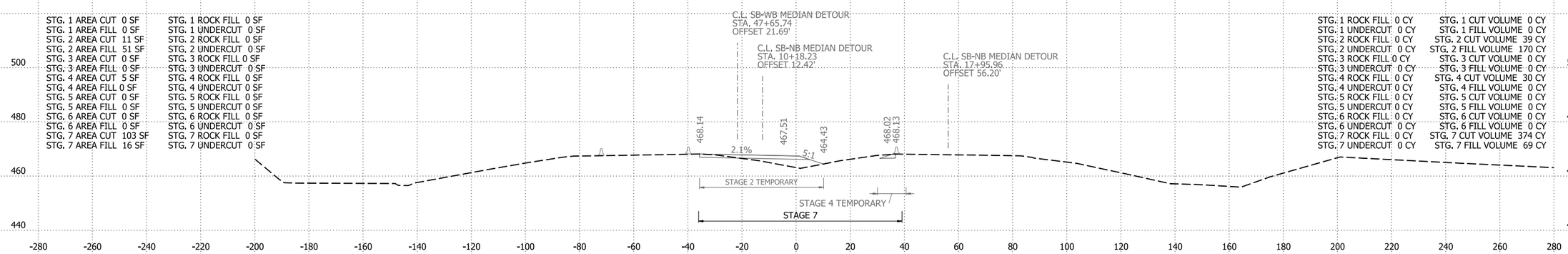
STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 35 CY
STG. 2 FILL VOLUME 185 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 9 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 381 CY
STG. 7 FILL VOLUME 44 CY

864+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 11 SF
STG. 2 AREA FILL 51 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 5 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 103 SF
STG. 7 AREA FILL 16 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



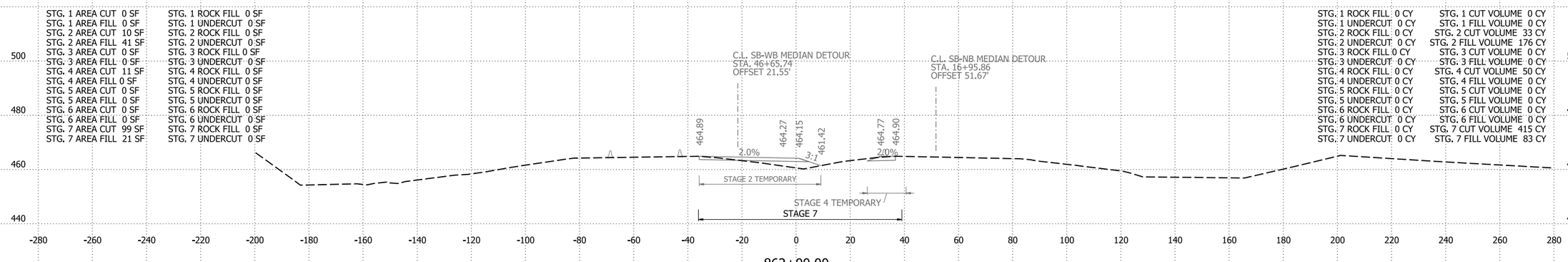
STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 39 CY
STG. 2 FILL VOLUME 170 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 30 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 374 CY
STG. 7 FILL VOLUME 69 CY

863+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 10 SF
STG. 2 AREA FILL 41 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 11 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 99 SF
STG. 7 AREA FILL 21 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 33 CY
STG. 2 FILL VOLUME 176 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 50 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 415 CY
STG. 7 FILL VOLUME 83 CY

862+00.00

I-49 STA. 862+00 TO STA. 864+00

9/3/2026 2:23:16 PM
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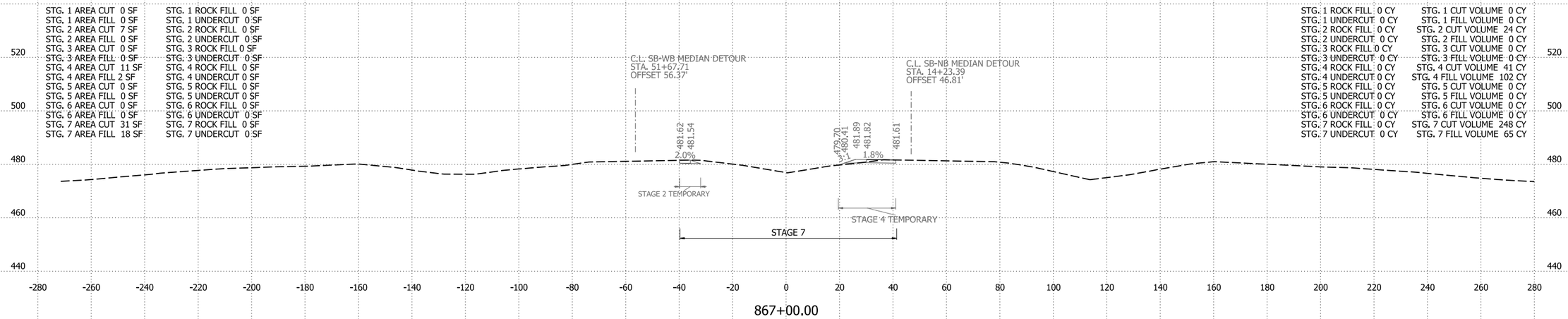
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	585	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 7 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 11 SF
STG. 4 AREA FILL 2 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 31 SF
STG. 7 AREA FILL 18 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 24 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 41 CY
STG. 4 FILL VOLUME 102 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 248 CY
STG. 7 FILL VOLUME 65 CY



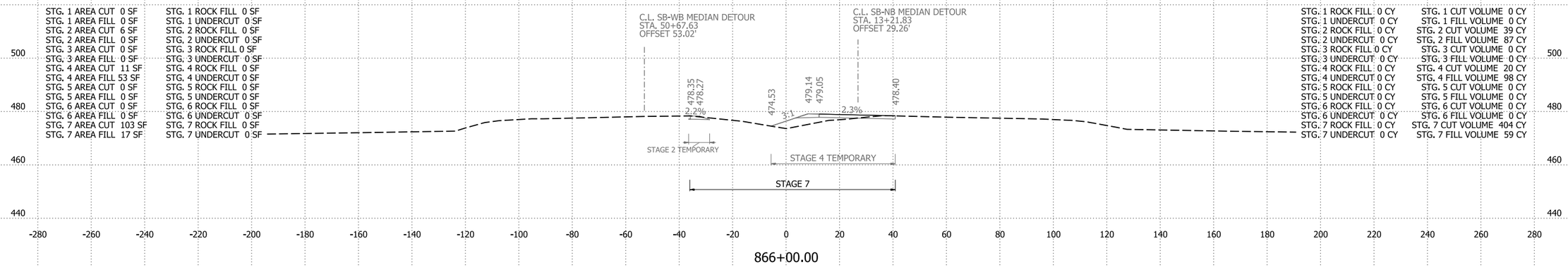
867+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 6 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 11 SF
STG. 4 AREA FILL 53 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 103 SF
STG. 7 AREA FILL 17 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 39 CY
STG. 2 FILL VOLUME 87 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 20 CY
STG. 4 FILL VOLUME 98 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 404 CY
STG. 7 FILL VOLUME 59 CY



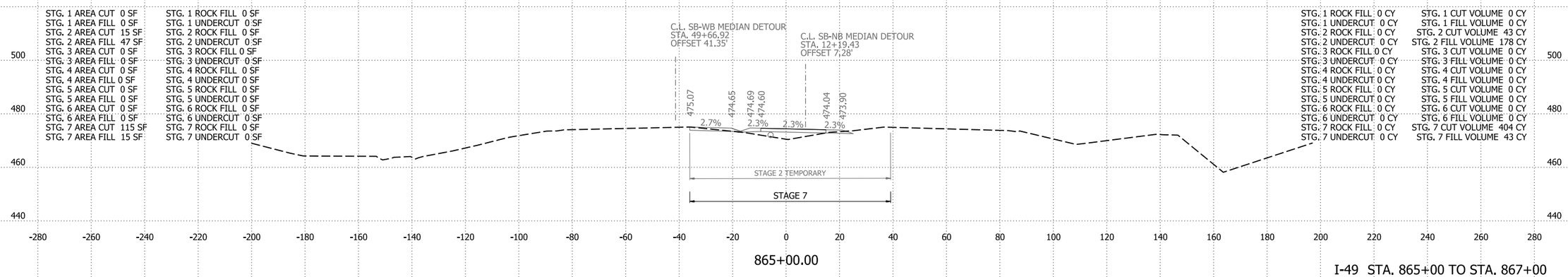
866+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 15 SF
STG. 2 AREA FILL 47 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 115 SF
STG. 7 AREA FILL 15 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 43 CY
STG. 2 FILL VOLUME 178 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 404 CY
STG. 7 FILL VOLUME 43 CY



865+00.00

I-49 STA. 865+00 TO STA. 867+00

4/30/2026 8:15:12 AM
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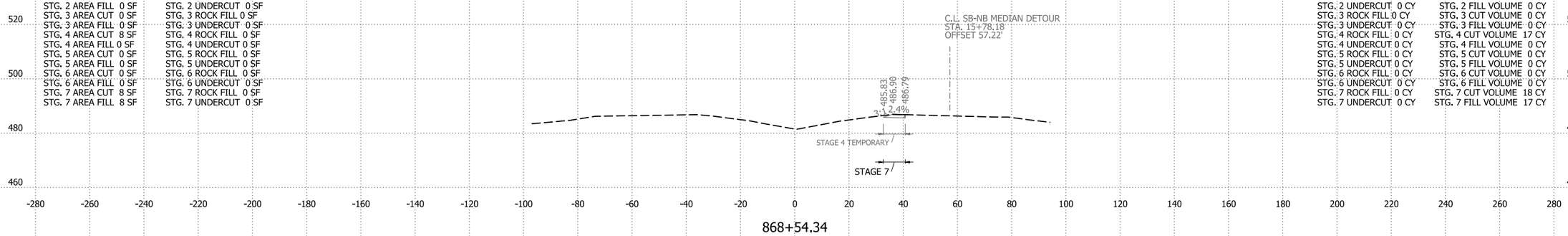
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	586	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 8 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 8 SF
STG. 7 AREA FILL 8 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 17 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 18 CY
STG. 7 FILL VOLUME 17 CY



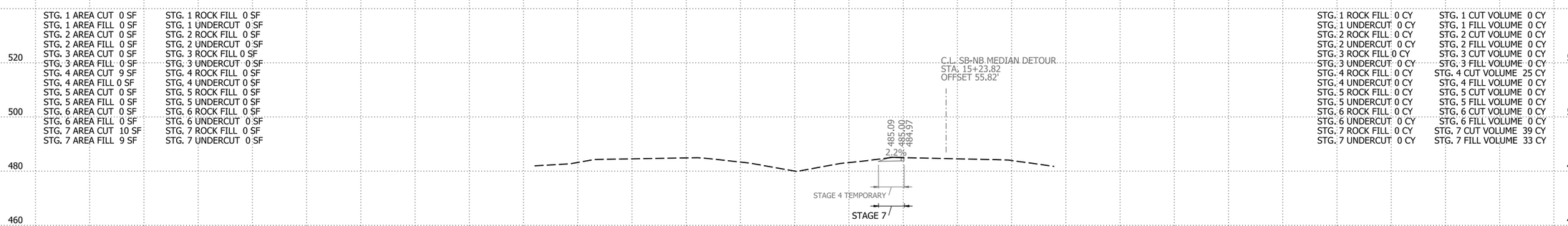
868+54.34

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 9 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 10 SF
STG. 7 AREA FILL 9 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 25 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 39 CY
STG. 7 FILL VOLUME 33 CY



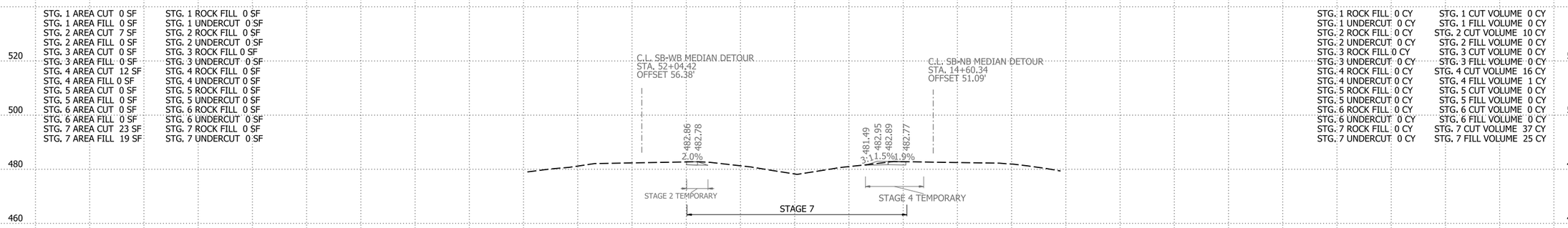
868+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 7 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 12 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 23 SF
STG. 7 AREA FILL 19 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 10 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 16 CY
STG. 4 FILL VOLUME 1 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 37 CY
STG. 7 FILL VOLUME 25 CY



867+36.70

I-49 STA. 867+36.70 TO STA. 868+58.34

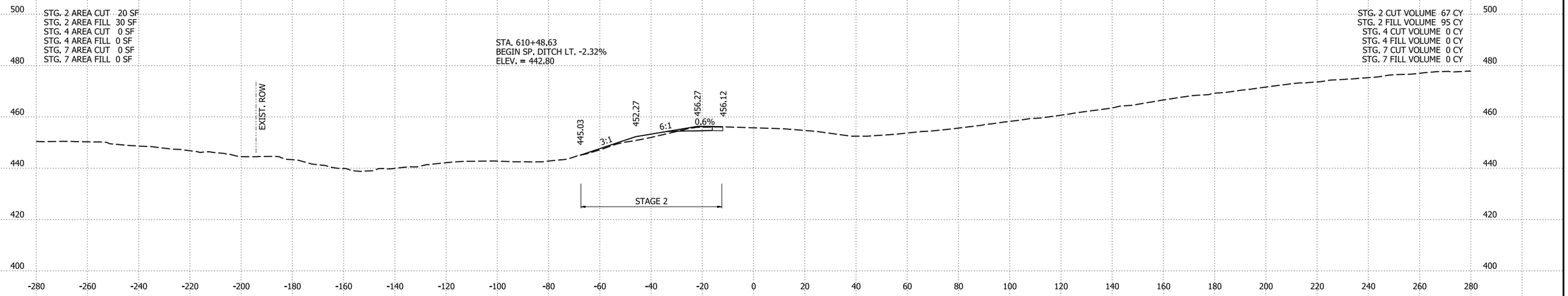
4/30/2026 8:15:12 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	587	742
		CROSS SECTIONS				

STG. 2 AREA CUT 20 SF
STG. 2 AREA FILL 30 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STA. 610+48.63
BEGIN SP. DITCH LT. -2.32%
ELEV. = 442.80

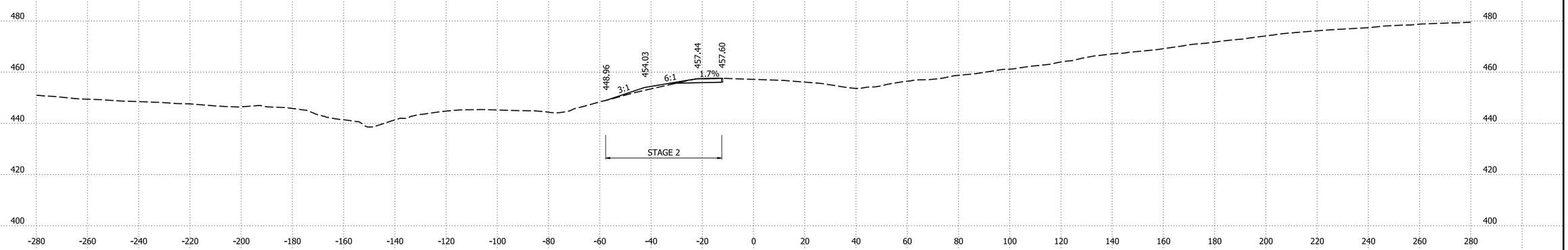
STG. 2 CUT VOLUME 67 CY
STG. 2 FILL VOLUME 95 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



610+00.00

STG. 2 AREA CUT 21 SF
STG. 2 AREA FILL 17 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

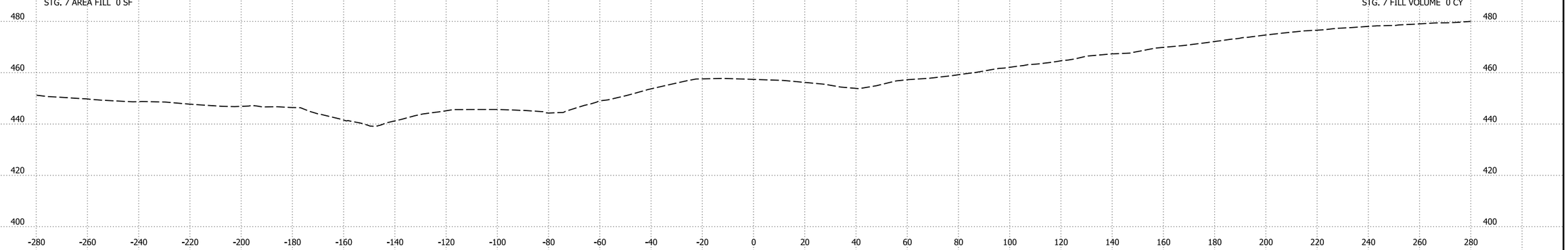
STG. 2 CUT VOLUME 6 CY
STG. 2 FILL VOLUME 4 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



609+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

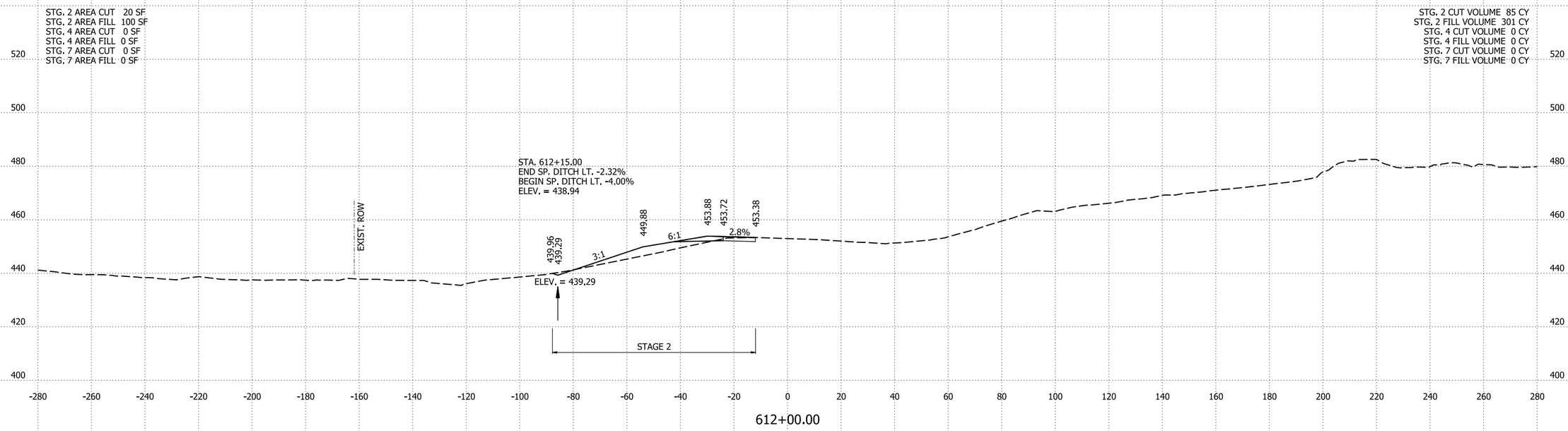


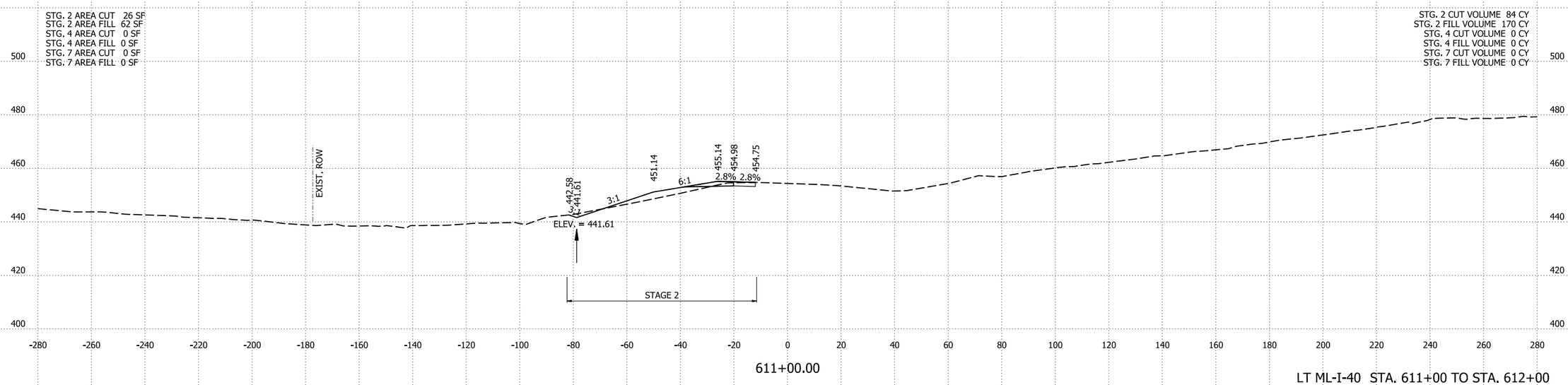
608+81.44
BEGIN LT ML-I-40

LT ML-I-40 STA. 609+81.44 TO STA. 610+00

4/30/2026 8:15:13 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	588	742
		CROSS SECTIONS				





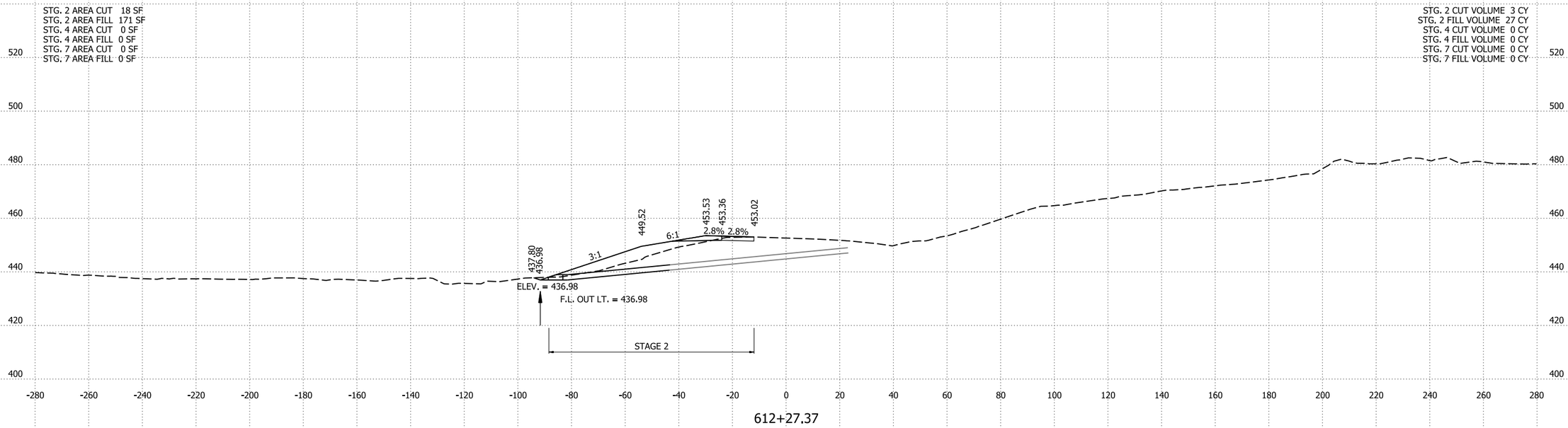
LT ML-I-40 STA. 611+00 TO STA. 612+00

4/30/2026 8:15:13 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	589	742
		CROSS SECTIONS				

STG. 2 AREA CUT 18 SF
STG. 2 AREA FILL 171 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 3 CY
STG. 2 FILL VOLUME 27 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

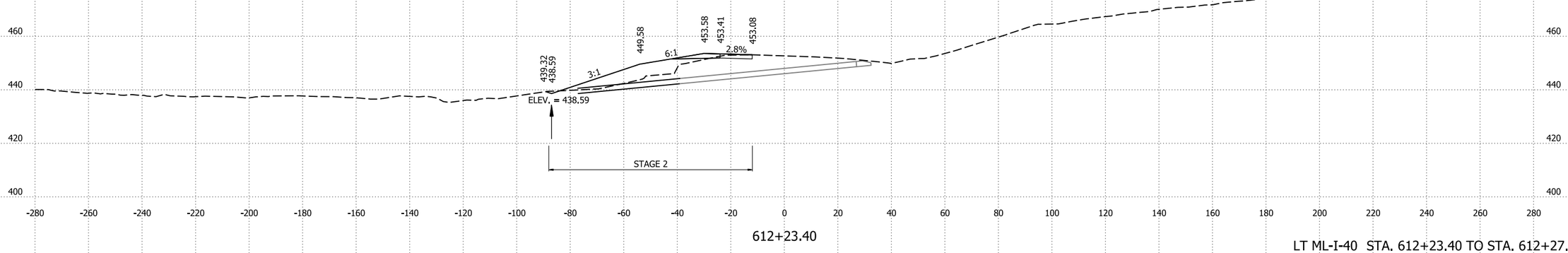


612+27.37

STG. 2 AREA CUT 19 SF
STG. 2 AREA FILL 194 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 17 CY
STG. 2 FILL VOLUME 128 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STA. 612+19.13 IN PLACE
24" X 66' R.C. PIPE CULVERT
WITH FES LT. & RT.
REMOVE FES LT.
RETAIN & EXTEND 38' LT.
WITH 6° LT. FWD. SKEW
WITH FES LT.
Q50 = 17.20 CFS D.A. = 5.65 ACRES
DUMPED RIPRAP LT. = 21 CU. YDS.



612+23.40

LT ML-I-40 STA. 612+23.40 TO STA. 612+27.37

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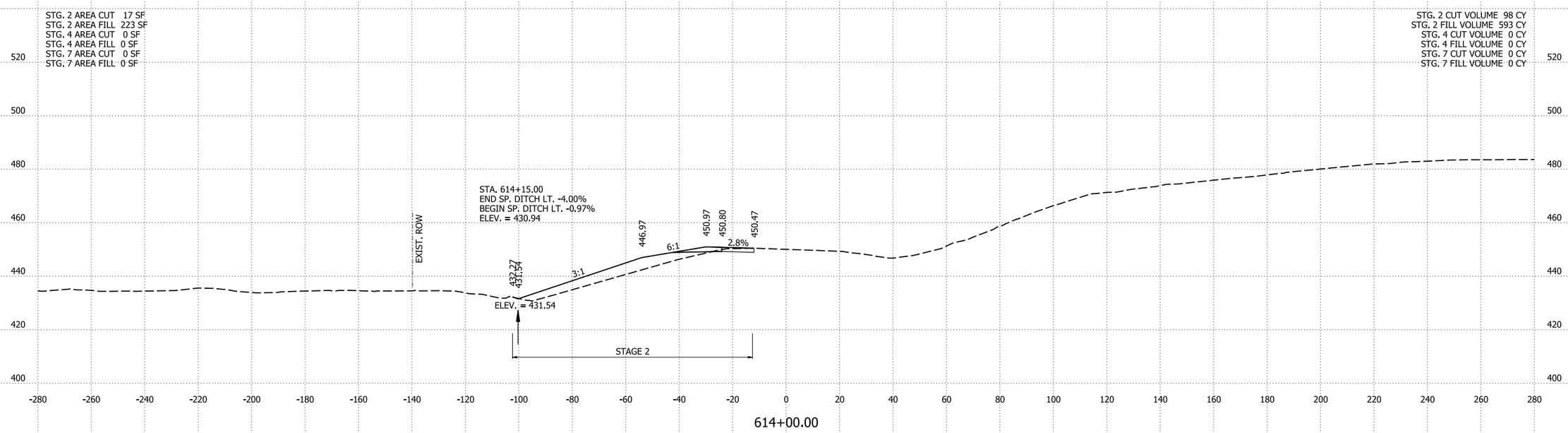
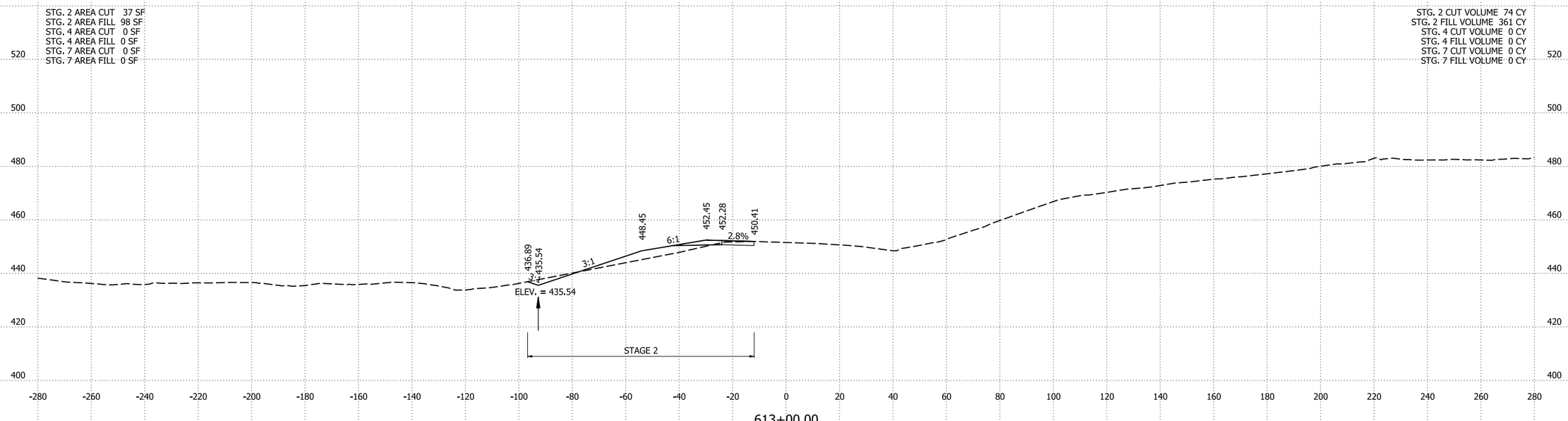
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	590	742
		CROSS SECTIONS				





LT ML-I-40 STA. 613+00 TO STA. 614+00

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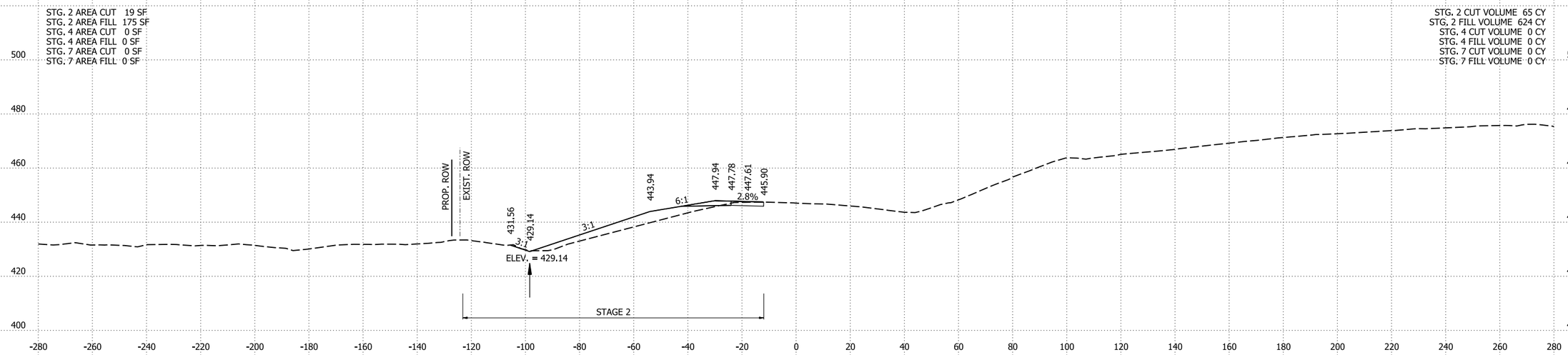
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	591	742
		CROSS SECTIONS				

STG. 2 AREA CUT 19 SF
STG. 2 AREA FILL 175 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

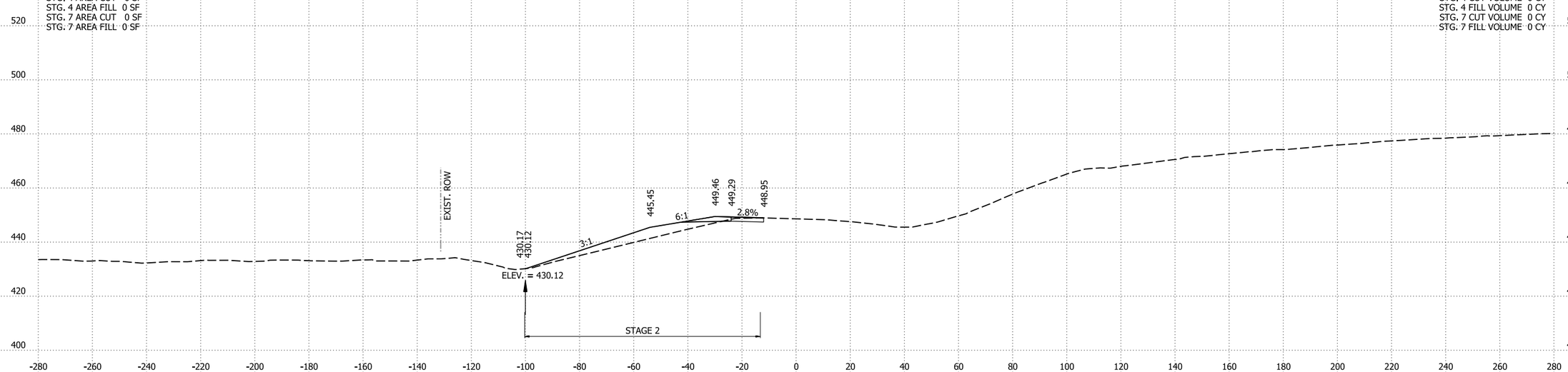
STG. 2 CUT VOLUME 65 CY
STG. 2 FILL VOLUME 624 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



616+00.00

STG. 2 AREA CUT 16 SF
STG. 2 AREA FILL 161 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 61 CY
STG. 2 FILL VOLUME 712 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



615+00.00

LT ML-I-40 STA. 615+00 TO STA. 616+00

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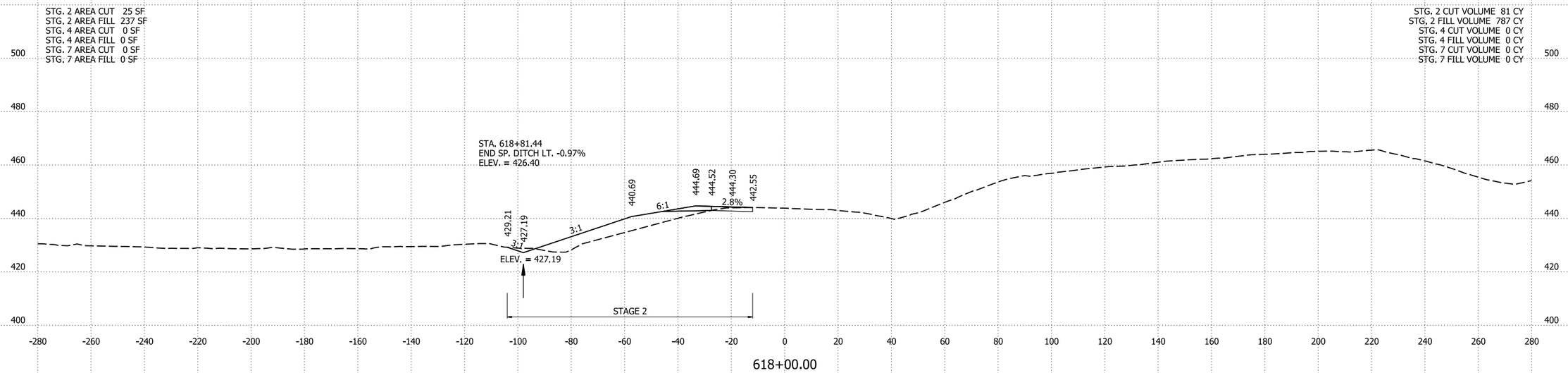
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	592	742
		CROSS SECTIONS				

STG. 2 AREA CUT 25 SF
STG. 2 AREA FILL 237 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

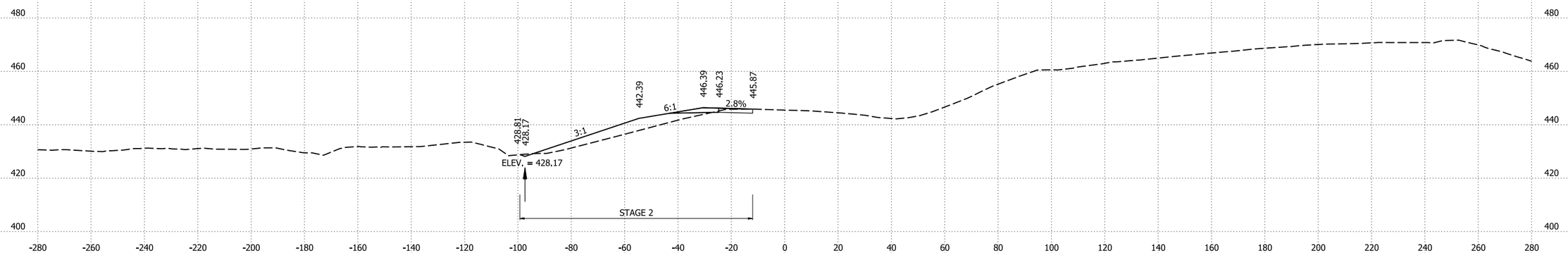
STG. 2 CUT VOLUME 81 CY
STG. 2 FILL VOLUME 787 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



618+00.00

STG. 2 AREA CUT 19 SF
STG. 2 AREA FILL 188 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 69 CY
STG. 2 FILL VOLUME 672 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



617+00.00

LT ML-I-40 STA. 617+00 TO STA. 618+00

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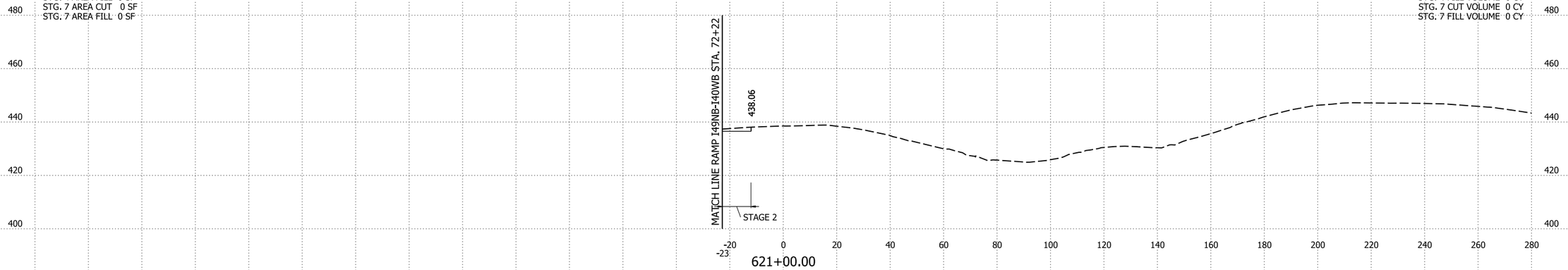
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	593	742
		CROSS SECTIONS				

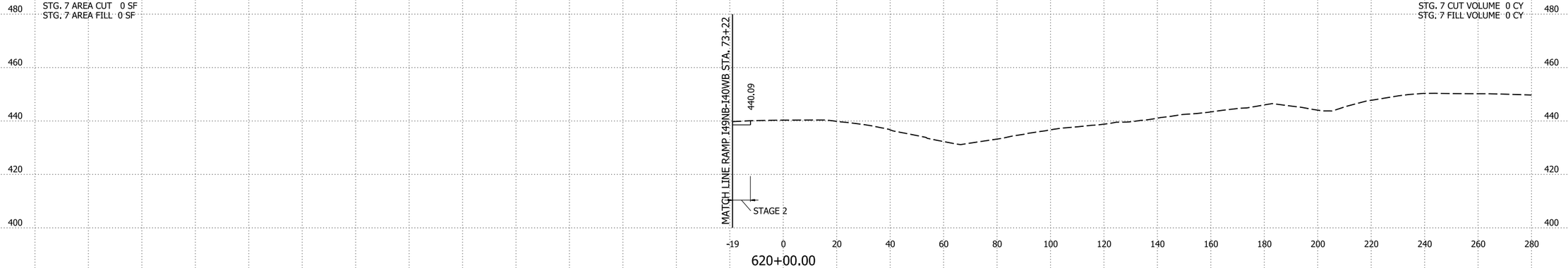
STG. 2 AREA CUT 13 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 40 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



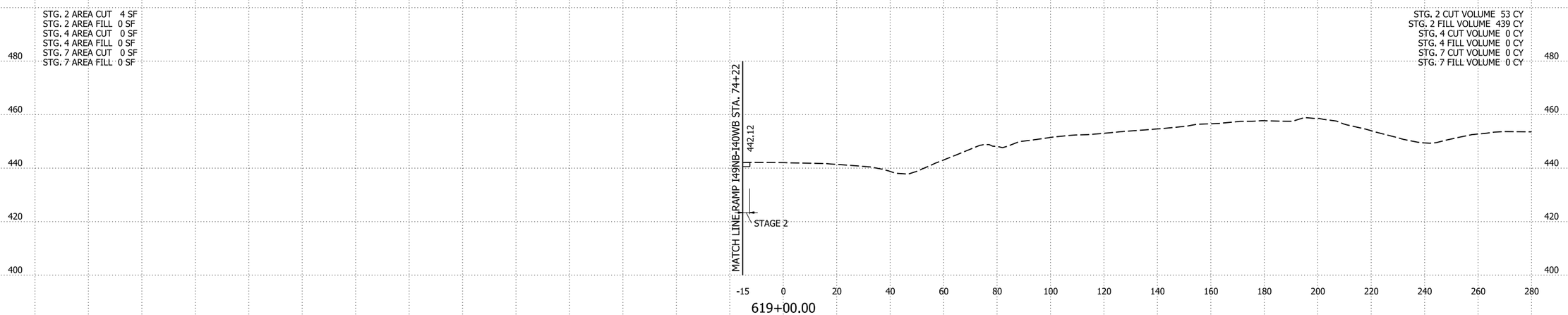
STG. 2 AREA CUT 9 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 24 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



STG. 2 AREA CUT 4 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 53 CY
STG. 2 FILL VOLUME 439 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



LT ML-I-40 STA. 619+00 TO STA. 621+00

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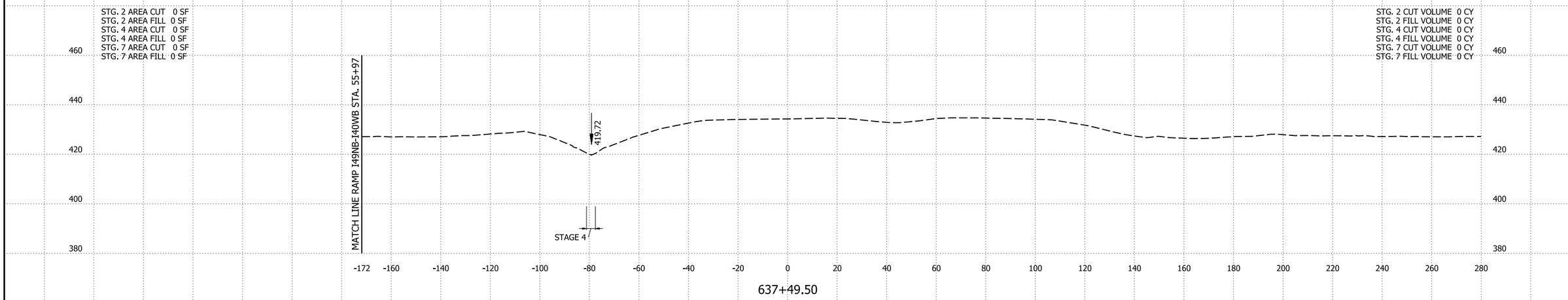
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	594	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

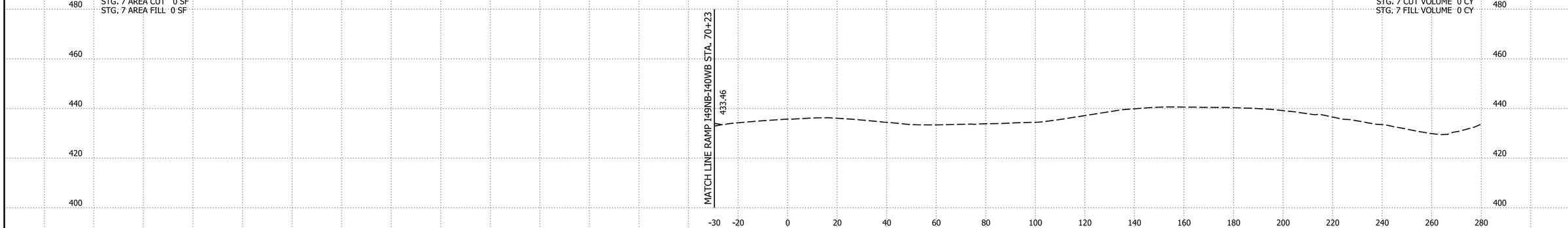
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



637+49.50

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 2 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

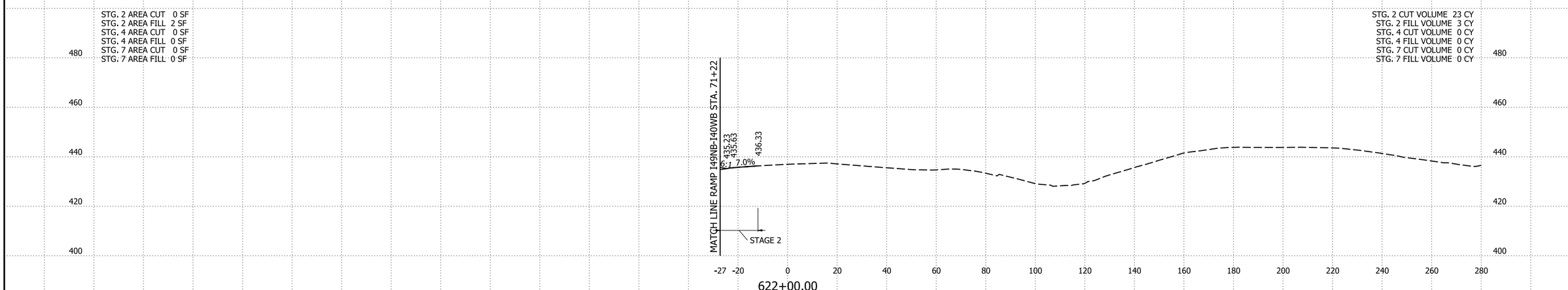
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 7 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



623+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 2 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 23 CY
STG. 2 FILL VOLUME 3 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



622+00.00

LT ML-I-40 STA. 622+00 TO STA. 637+49.50

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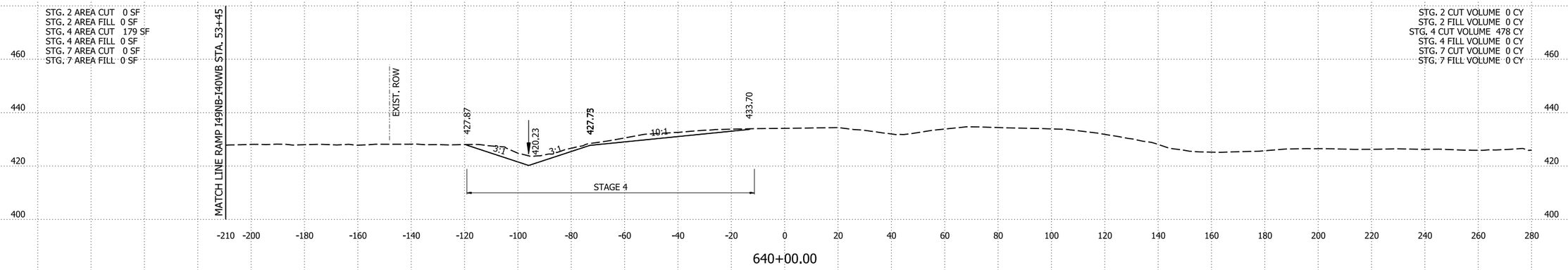
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	595	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 179 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

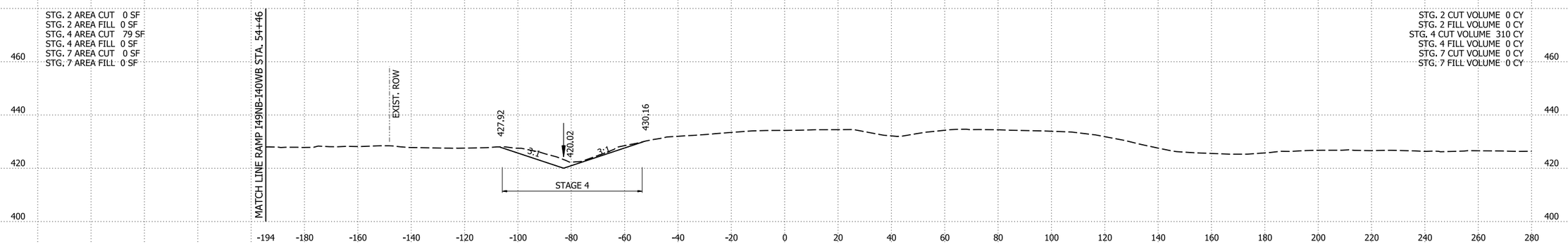
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 478 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



640+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 79 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

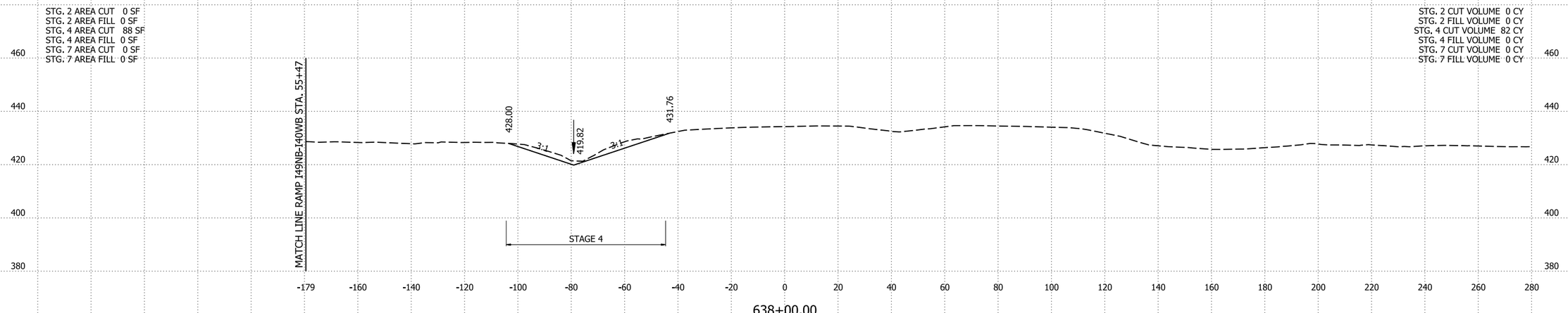
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 310 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



639+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 88 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 82 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



638+00.00

LT ML-I-40 STA. 638+00 TO STA. 640+00

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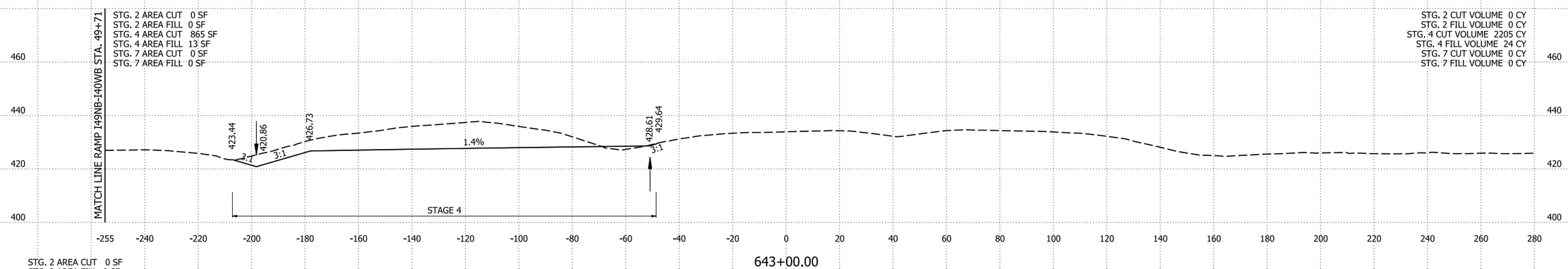
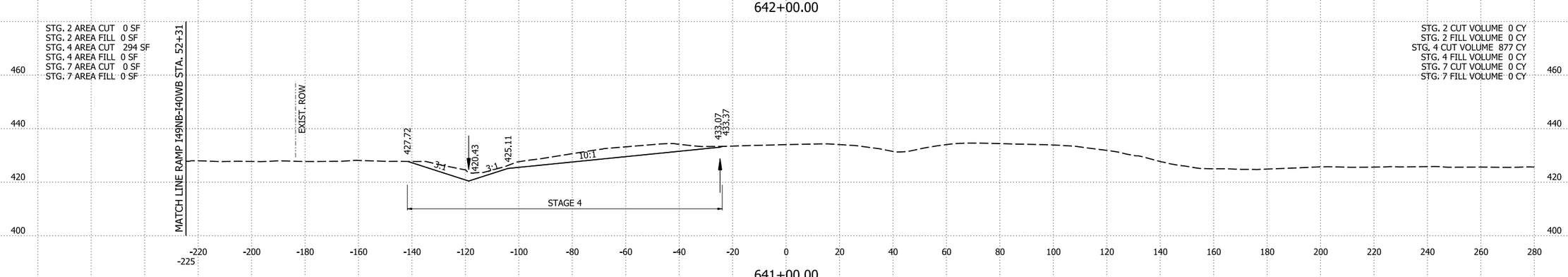
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	596	742
		CROSS SECTIONS				



643+00.00

642+00.00



641+00.00

LT ML-I-40 STA. 641+00 TO STA. 643+00

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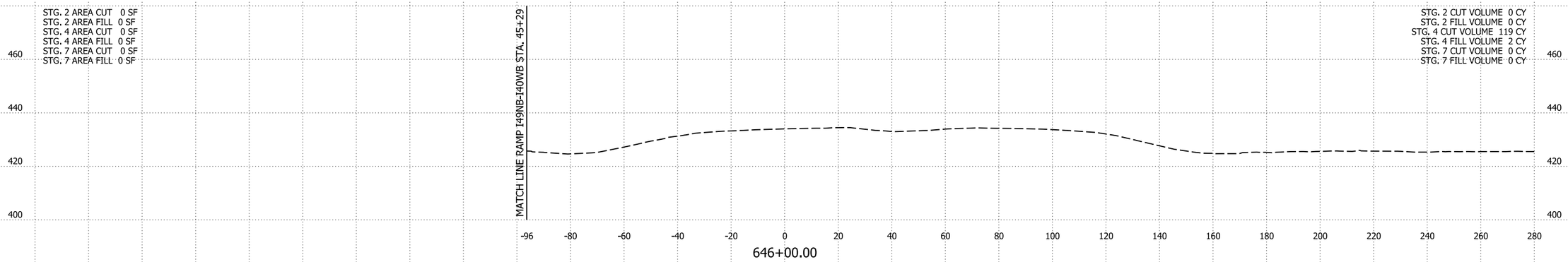
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	597	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

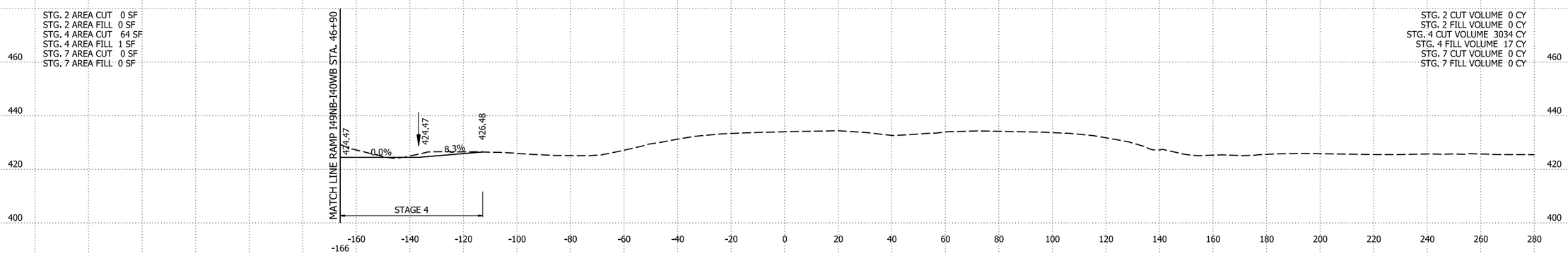
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 119 CY
STG. 4 FILL VOLUME 2 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



646+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 64 SF
STG. 4 AREA FILL 1 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

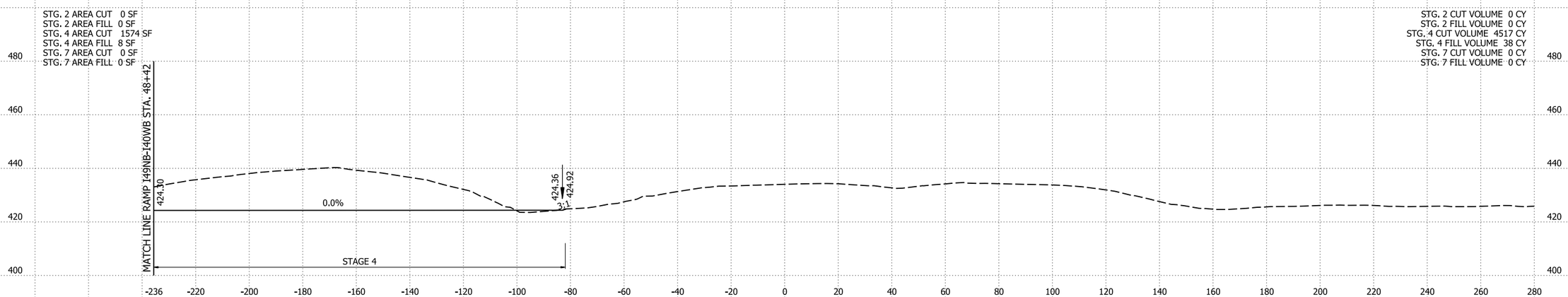
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 3034 CY
STG. 4 FILL VOLUME 17 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



645+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 1574 SF
STG. 4 AREA FILL 8 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 4517 CY
STG. 4 FILL VOLUME 38 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



644+00.00

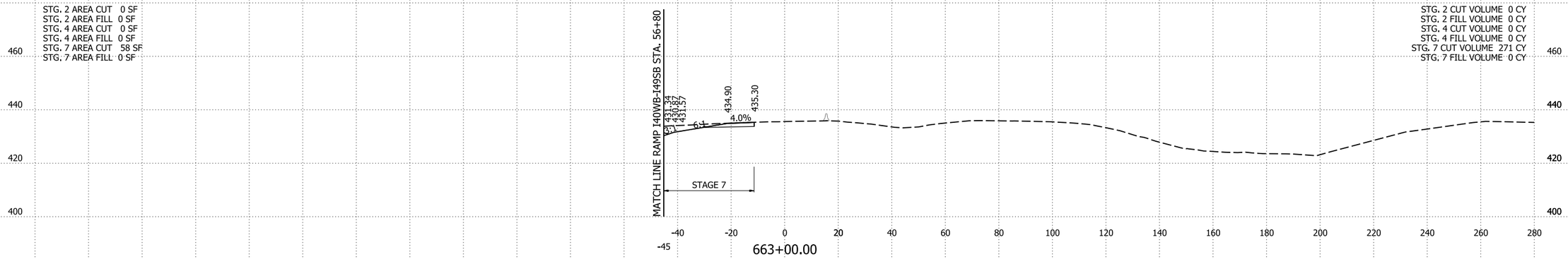
LT ML-I-40 STA. 644+00 TO STA. 646+00

4/30/2026 8:15:16 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	598	742
		CROSS SECTIONS				

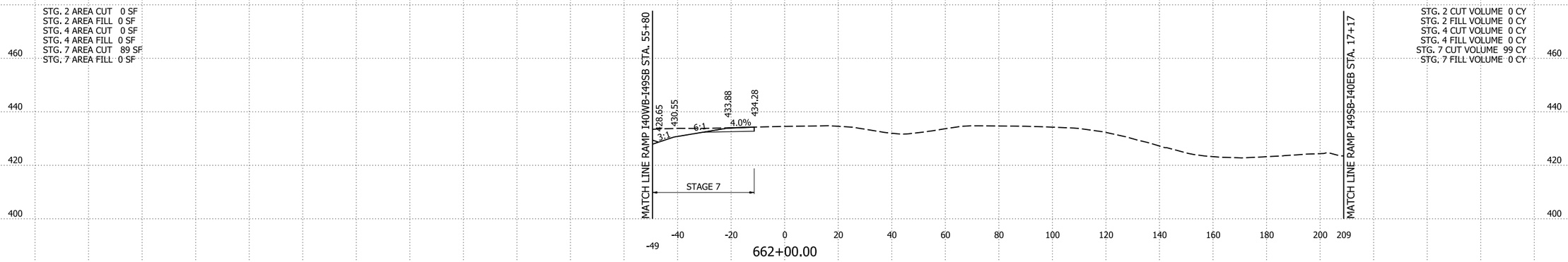
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 58 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 271 CY
STG. 7 FILL VOLUME 0 CY



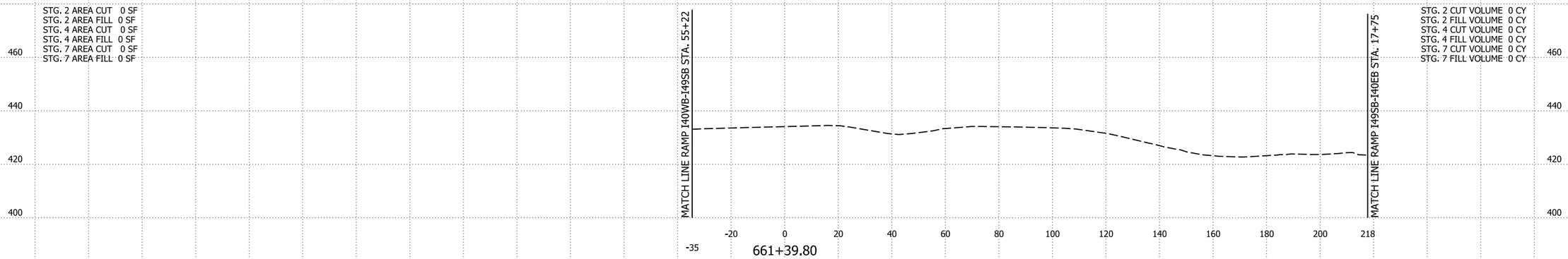
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 89 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 99 CY
STG. 7 FILL VOLUME 0 CY



STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



LT ML-I-40 STA. 661+39.80 TO STA. 663+00

4/30/2026 8:15:17 AM
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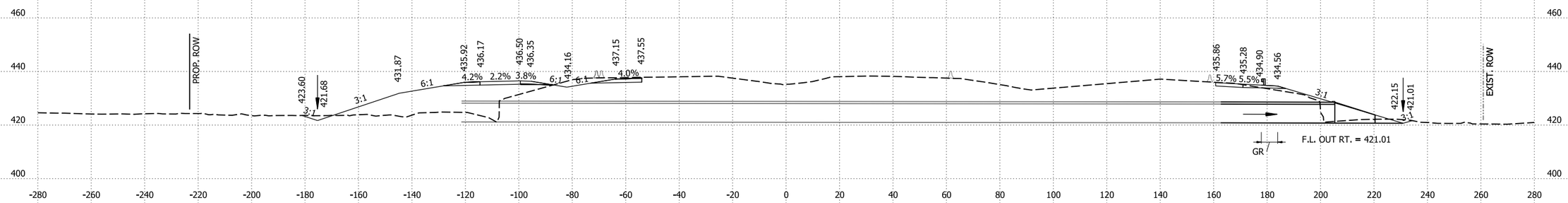
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	599	742
		CROSS SECTIONS				

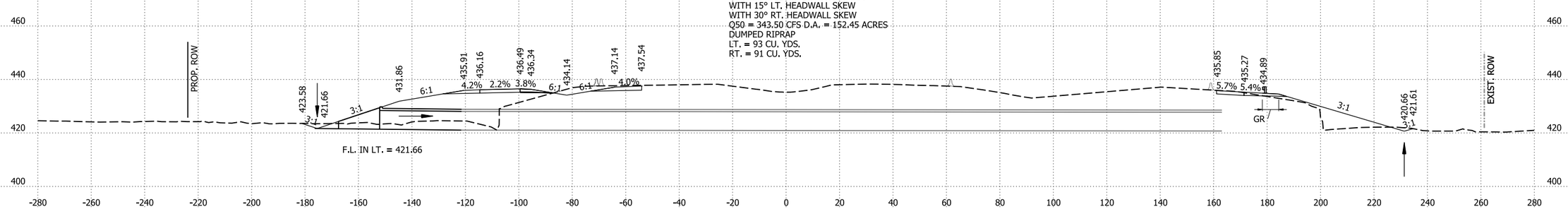
EARTHWORK FOR THIS SECTION
IS SHOWN ON RAMP I49SB-I40EB
CROSS SECTIONS



664+57.70

EARTHWORK FOR THIS SECTION
IS SHOWN ON RAMP I40WB-I49SB
CROSS SECTIONS

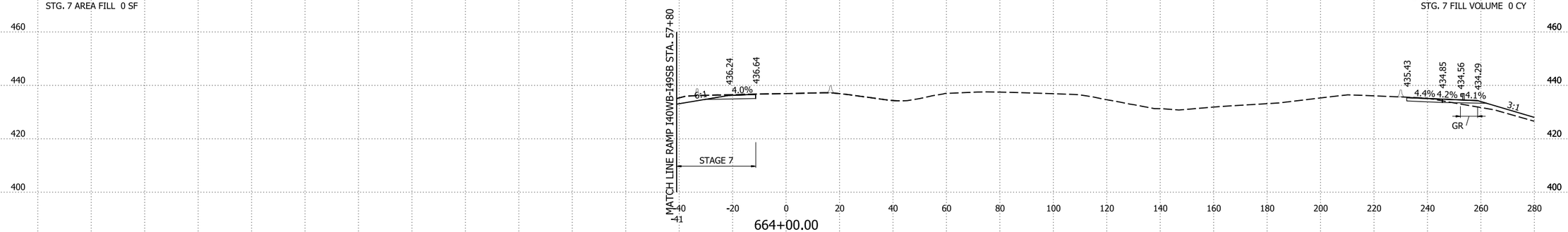
MED I-40 STA. 664+39.25 IN PLACE
7' X 7' X 298' R.C. BOX CULVERT
WITH 3:1 WINGS LT. & RT.
REMOVE WINGS LT. & RT.
REMOVE 8' LT. & 3' RT.
EXTEND 50' LT. & 6' RT.
TO A COMPLETED LENGTH OF 354'
WITH 15° LT. HEADWALL SKEW
WITH 30° RT. HEADWALL SKEW
Q50 = 343.50 CFS D.A. = 152.45 ACRES
DUMPED RIPRAP
LT. = 93 CU. YDS.
RT. = 91 CU. YDS.



664+56.95

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 52 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 204 CY
STG. 7 FILL VOLUME 0 CY



664+00.00

LT ML-I-40 STA. 664+00 TO STA. 664+57.70

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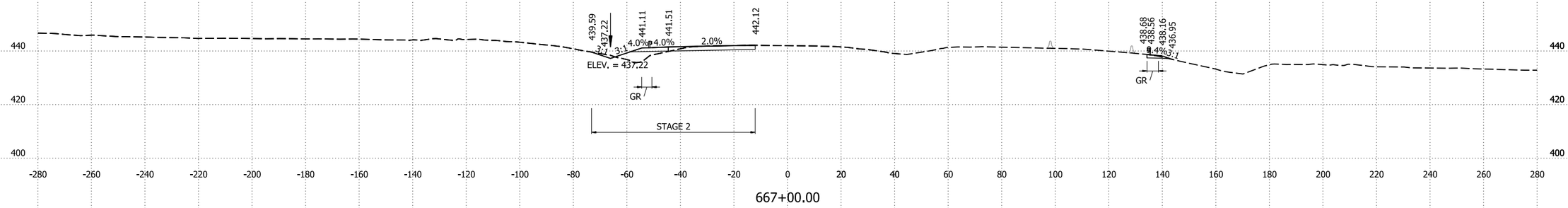
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	600	742
		CROSS SECTIONS				

STG. 2 AREA CUT 49 SF
STG. 2 AREA FILL 40 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

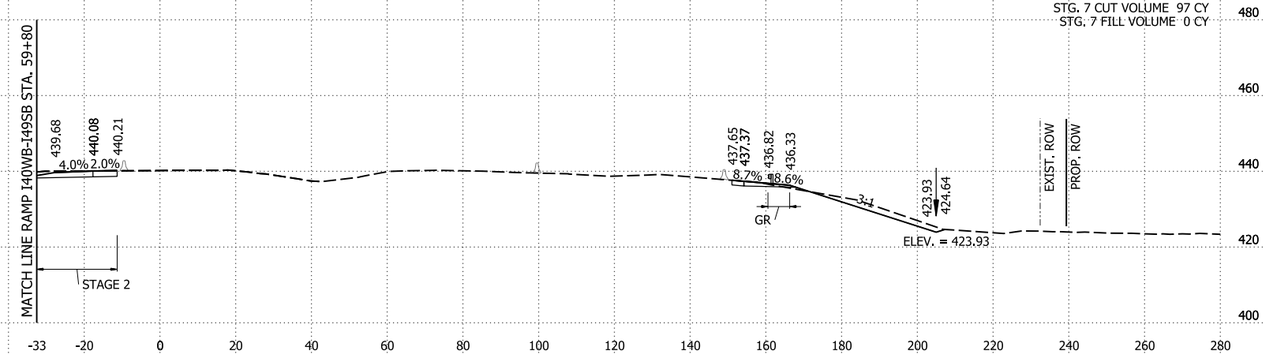
STG. 2 CUT VOLUME 153 CY
STG. 2 FILL VOLUME 74 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



667+00.00

STG. 2 AREA CUT 34 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

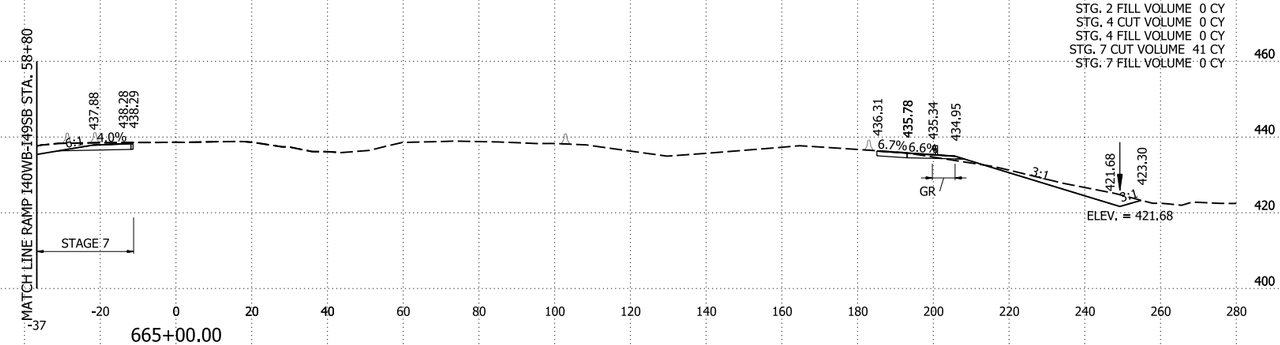
STG. 2 CUT VOLUME 63 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 97 CY
STG. 7 FILL VOLUME 0 CY



666+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 52 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 41 CY
STG. 7 FILL VOLUME 0 CY



665+00.00

LT ML-I-40 STA. 665+00 TO STA. 667+00

6/8/2026 4:47:28 PM
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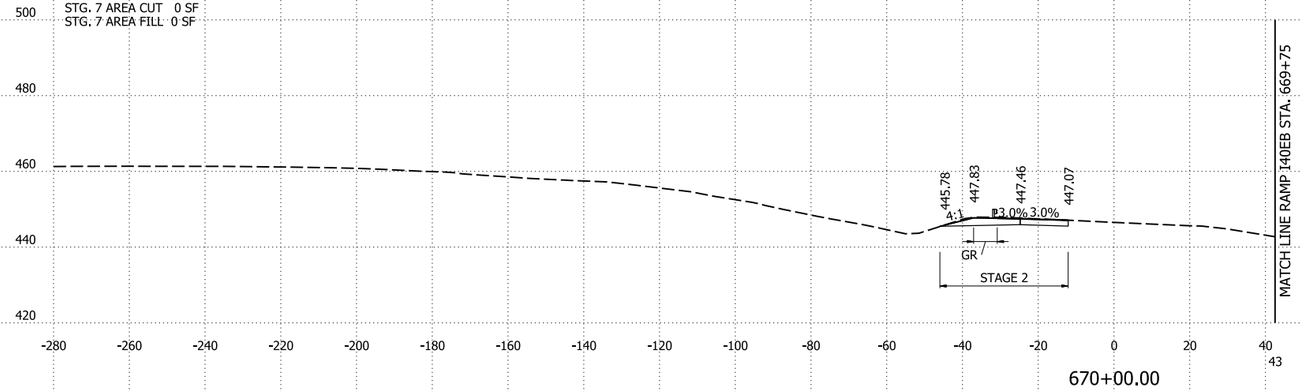
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	601	742
		CROSS SECTIONS				

STG. 2 AREA CUT 57 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

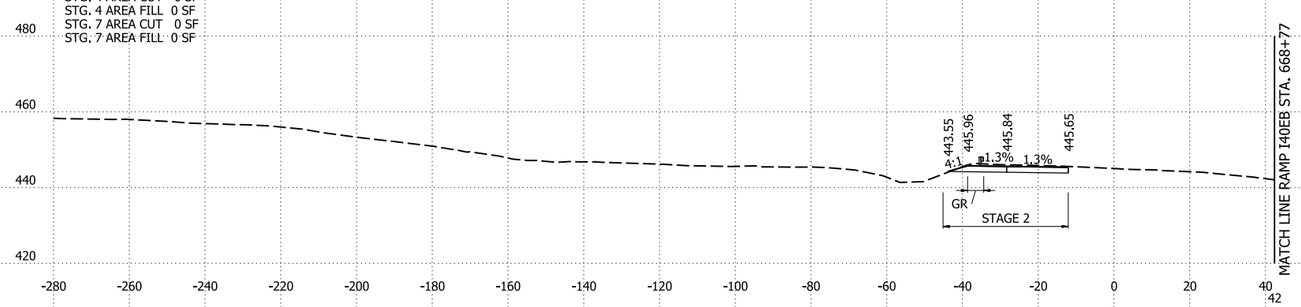
STG. 2 CUT VOLUME 214 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



670+00.00

STG. 2 AREA CUT 59 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

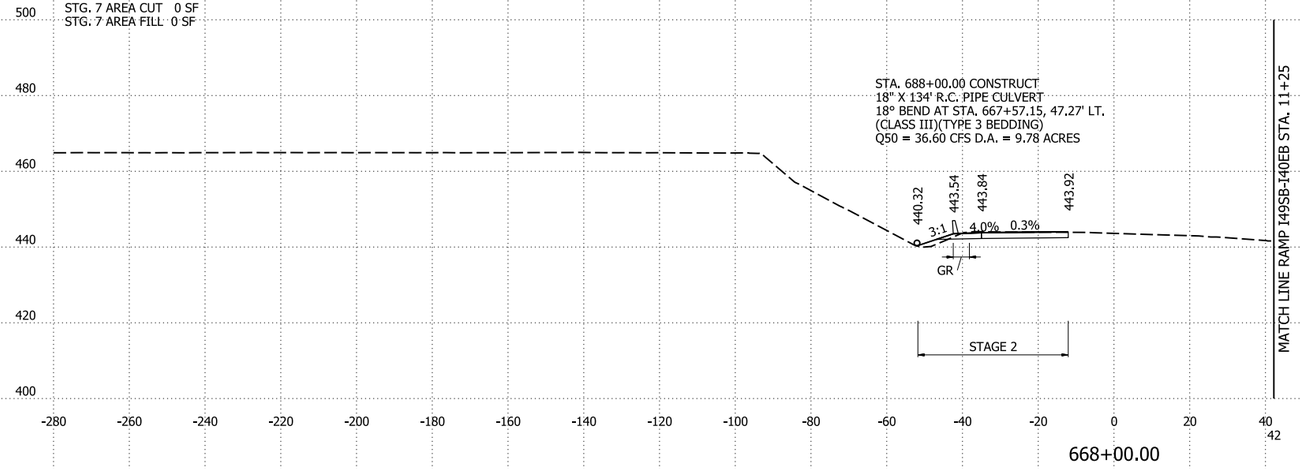
STG. 2 CUT VOLUME 198 CY
STG. 2 FILL VOLUME 13 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



669+00.00

STG. 2 AREA CUT 48 SF
STG. 2 AREA FILL 7 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 179 CY
STG. 2 FILL VOLUME 87 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



668+00.00

LT ML-I-40 STA. 668+00 TO STA. 670+00

6/8/2026 4:47:29 PM
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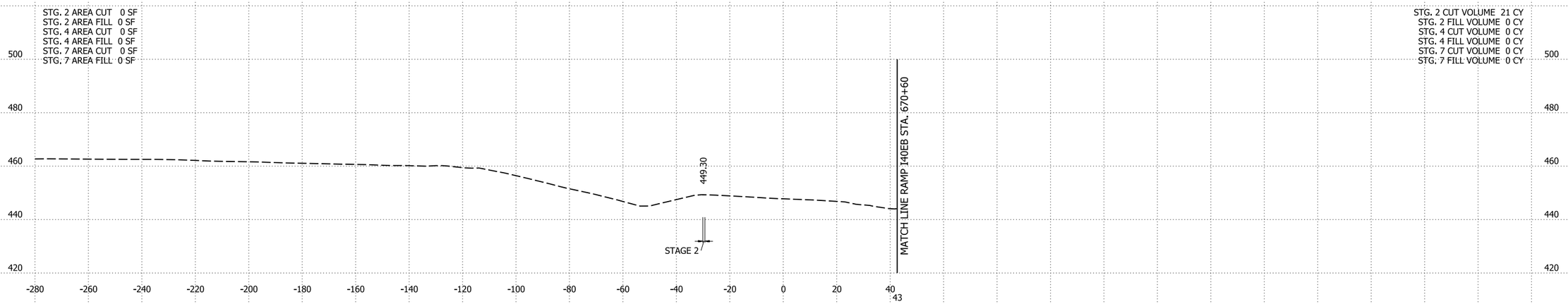
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	602	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

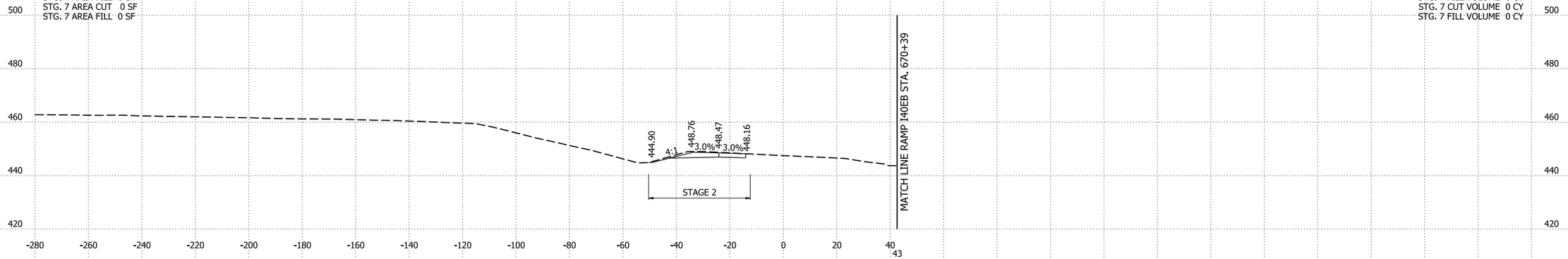
STG. 2 CUT VOLUME 21 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



670+87.24
END LT ML-I-40

STG. 2 AREA CUT 54 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 CUT VOLUME 136 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

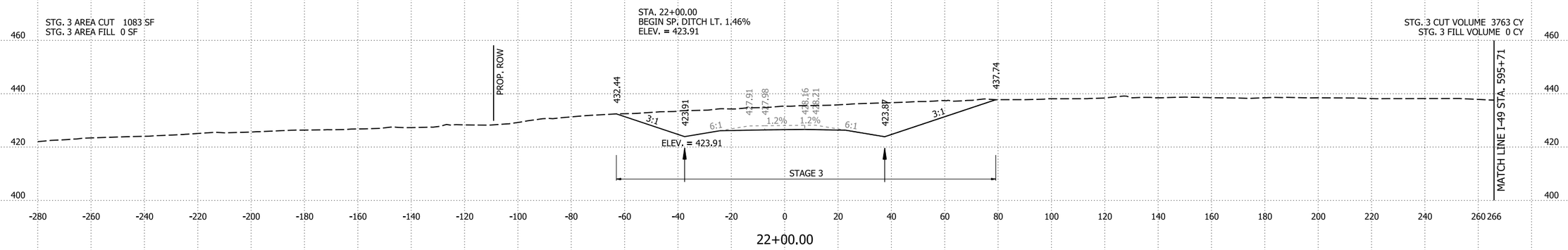


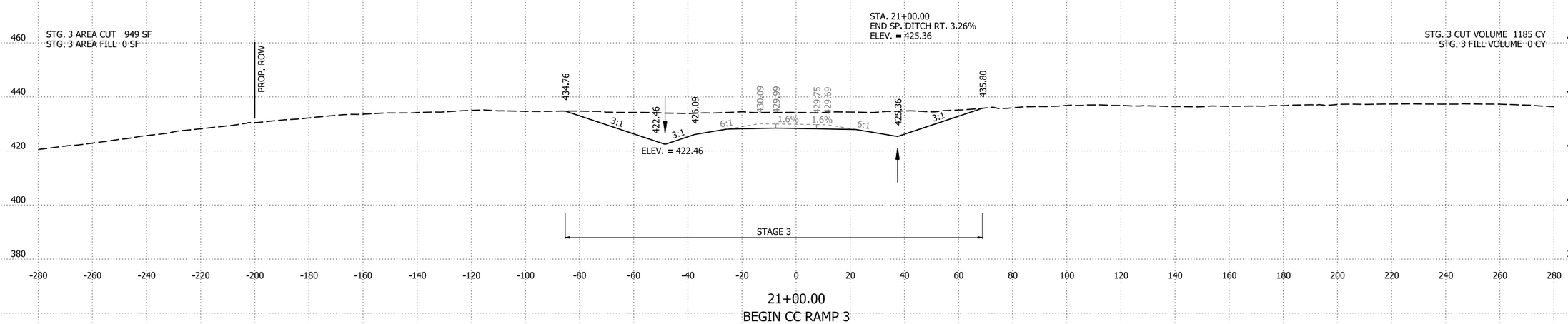
670+66.12

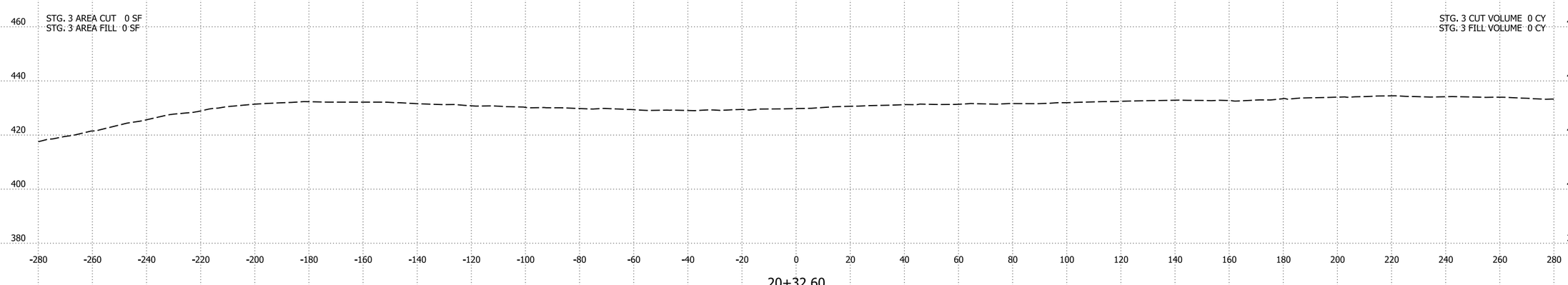
LT ML-I-40 STA. 670+66.12 TO STA. 670+87.24

4/30/2026 8:15:18 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	603	742
		CROSS SECTIONS				



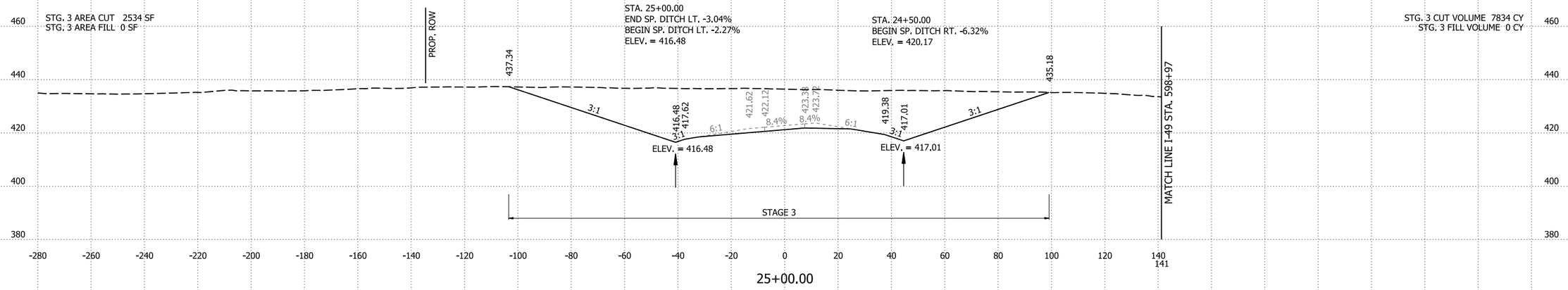


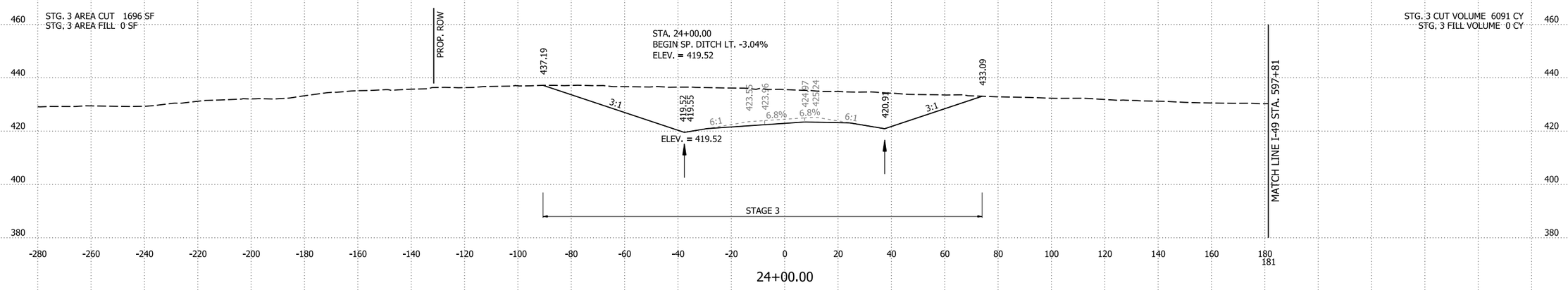


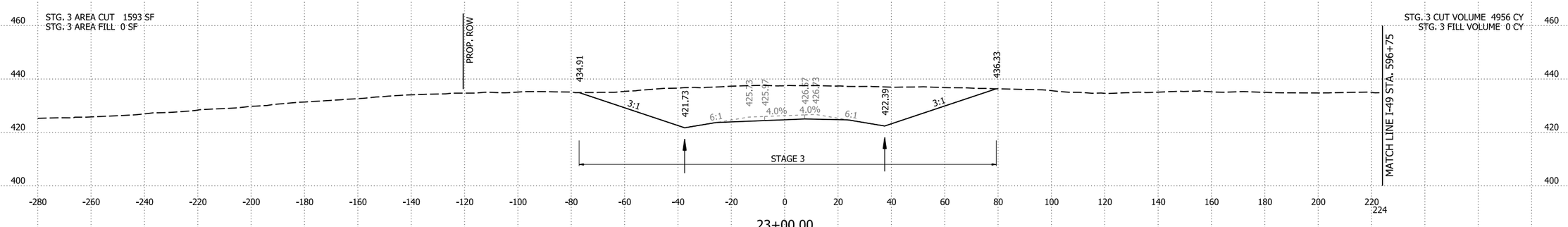
CC RAMP 3 STA. 20+32.60 TO STA. 22+00

4/30/2026 8:15:18 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	604	742
		CROSS SECTIONS				







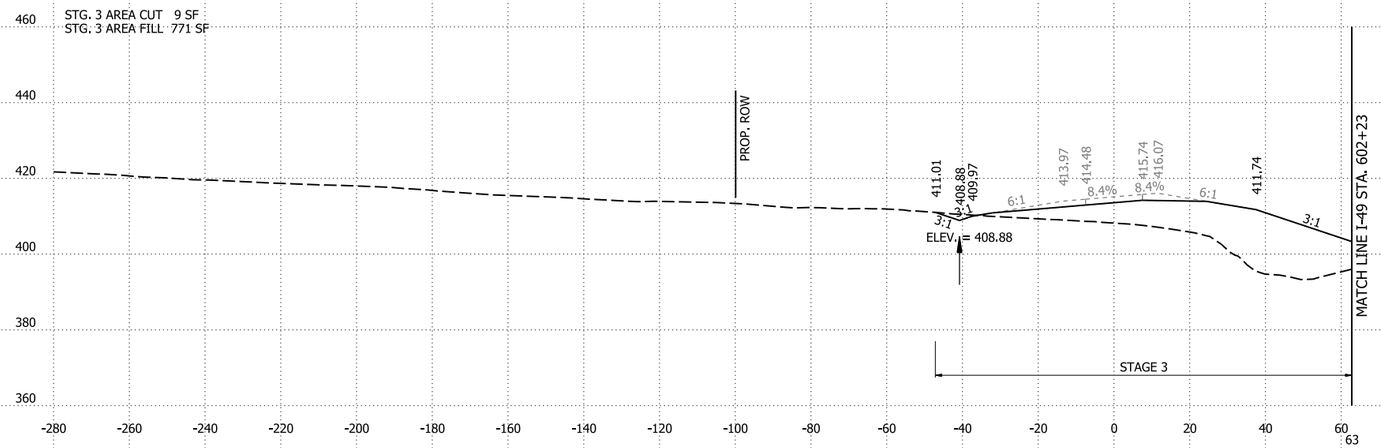
CC RAMP 3 STA. 23+00 TO STA. 25+00

4/30/2026 8:15:19 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	605	742
		CROSS SECTIONS				

STG. 3 AREA CUT 9 SF
STG. 3 AREA FILL 771 SF

STG. 3 CUT VOLUME 1220 CY
STG. 3 FILL VOLUME 1588 CY



28+00.00

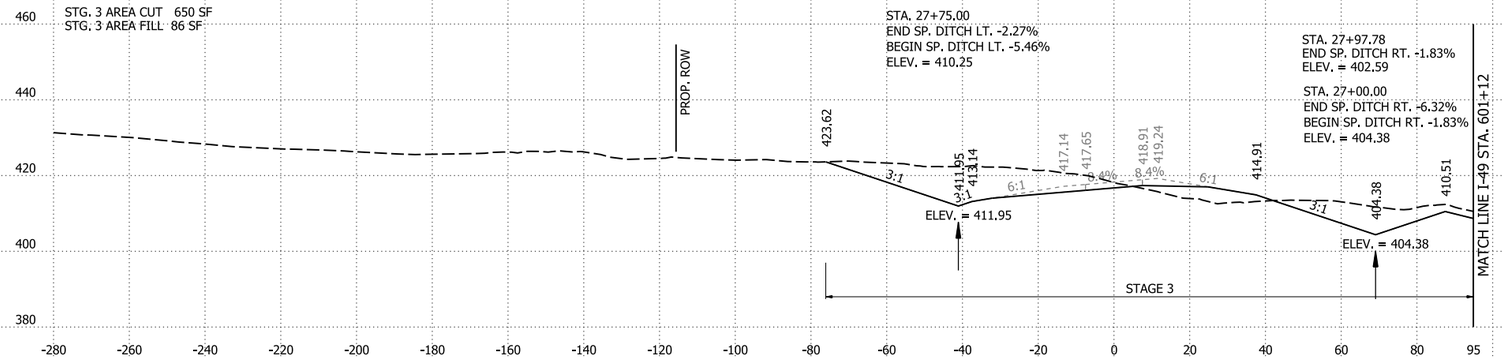
STG. 3 AREA CUT 650 SF
STG. 3 AREA FILL 86 SF

STG. 3 CUT VOLUME 4796 CY
STG. 3 FILL VOLUME 160 CY

STA. 27+75.00
END SP. DITCH LT. -2.27%
BEGIN SP. DITCH LT. -5.46%
ELEV. = 410.25

STA. 27+97.78
END SP. DITCH RT. -1.83%
ELEV. = 402.59

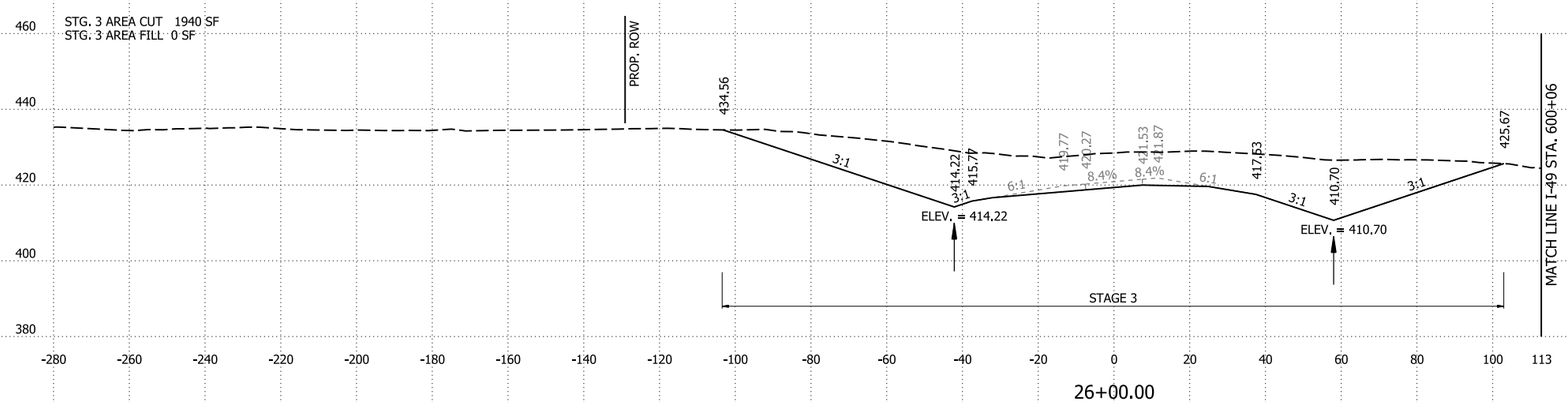
STA. 27+00.00
END SP. DITCH RT. -6.32%
BEGIN SP. DITCH RT. -1.83%
ELEV. = 404.38



27+00.00

STG. 3 AREA CUT 1940 SF
STG. 3 AREA FILL 0 SF

STG. 3 CUT VOLUME 8285 CY
STG. 3 FILL VOLUME 0 CY



26+00.00

CC RAMP 3 STA. 26+00 TO STA. 28+00

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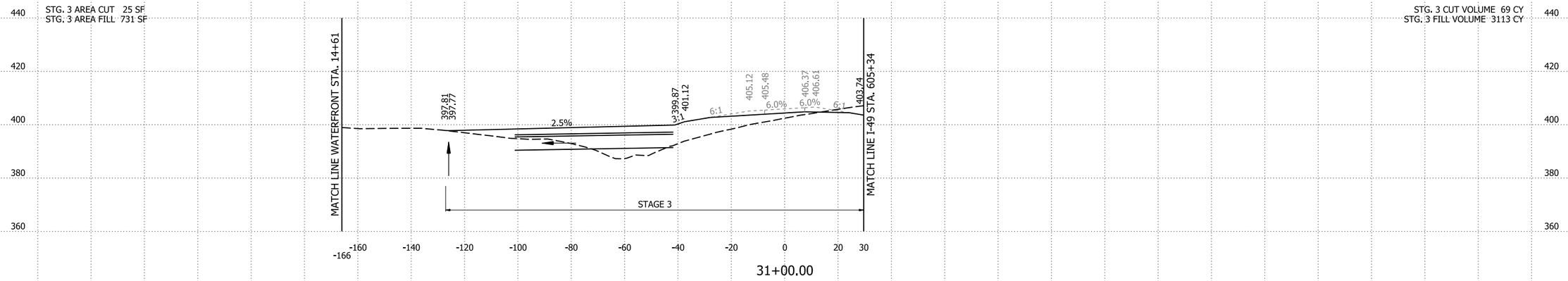
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	606	742
		CROSS SECTIONS				

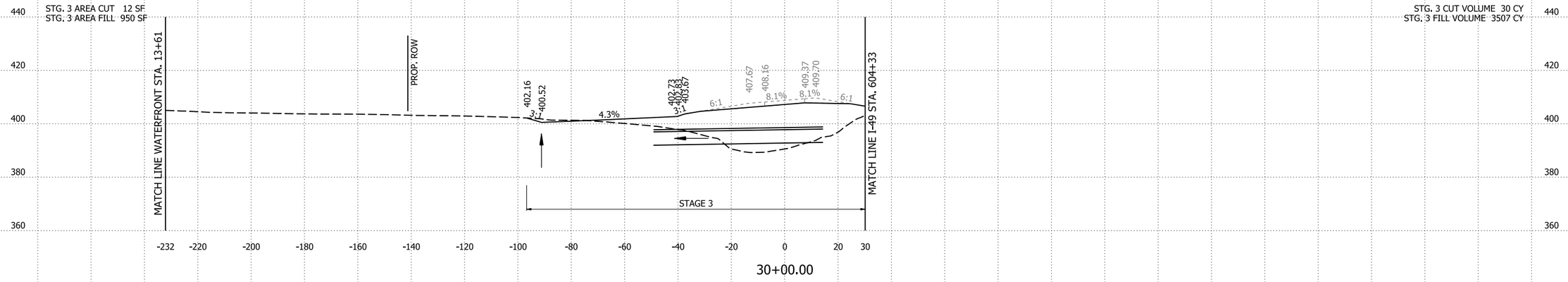
STG. 3 AREA CUT 25 SF
STG. 3 AREA FILL 731 SF

STG. 3 CUT VOLUME 69 CY
STG. 3 FILL VOLUME 3113 CY



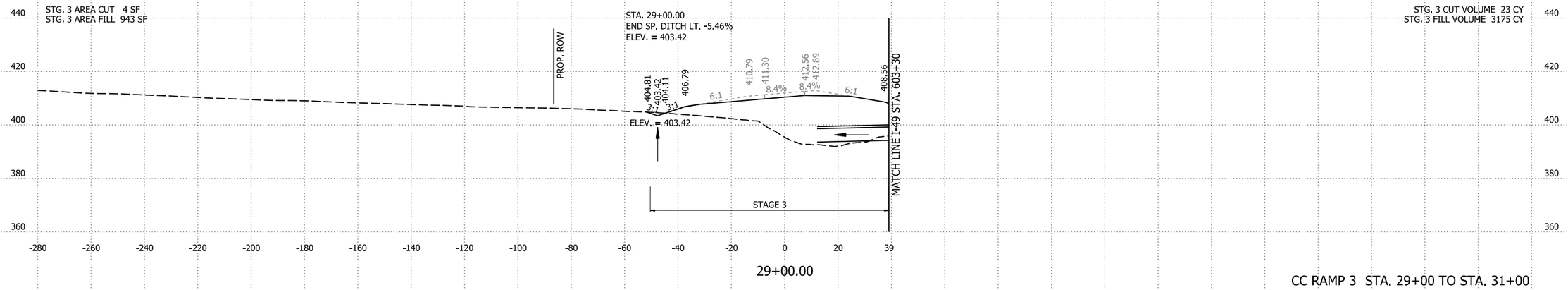
STG. 3 AREA CUT 12 SF
STG. 3 AREA FILL 950 SF

STG. 3 CUT VOLUME 30 CY
STG. 3 FILL VOLUME 3507 CY



STG. 3 AREA CUT 4 SF
STG. 3 AREA FILL 943 SF

STG. 3 CUT VOLUME 23 CY
STG. 3 FILL VOLUME 3175 CY



CC RAMP 3 STA. 29+00 TO STA. 31+00

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R040904_22_CX.dgn

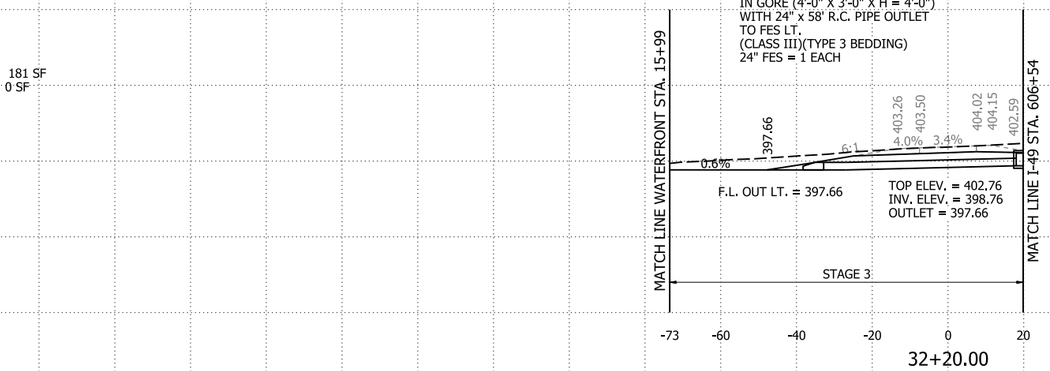
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	607	742
		CROSS SECTIONS				

STA. 32+70.00
BEGIN SP. DITCH LT. 0.35%
ELEV. = 399.91

STA. 32+20.00 OFFSET 19.52' RT.
CONSTRUCT TYPE RM DROP INLET
IN GORE (4'-0" X 3'-0" X H = 4'-0")
WITH 24" x 58' R.C. PIPE OUTLET
TO FES LT.
(CLASS III)(TYPE 3 BEDDING)
24" FES = 1 EACH

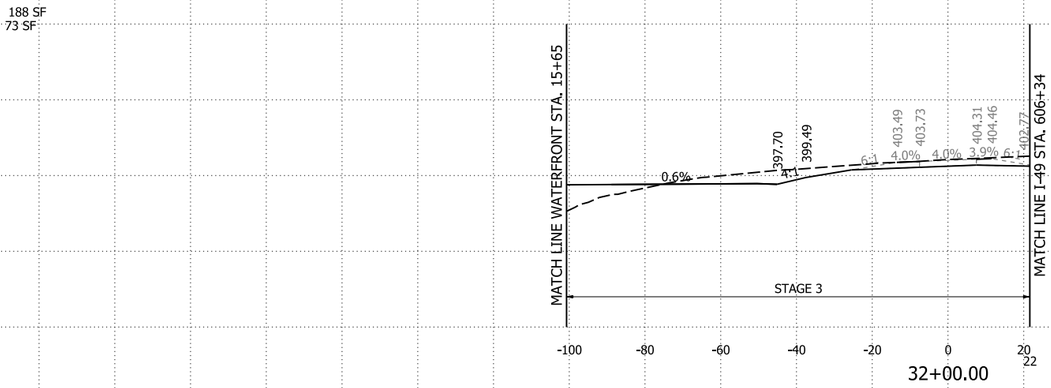
STG. 3 AREA CUT 181 SF
STG. 3 AREA FILL 0 SF

STG. 3 CUT VOLUME 137 CY
STG. 3 FILL VOLUME 27 CY



STG. 3 AREA CUT 188 SF
STG. 3 AREA FILL 73 SF

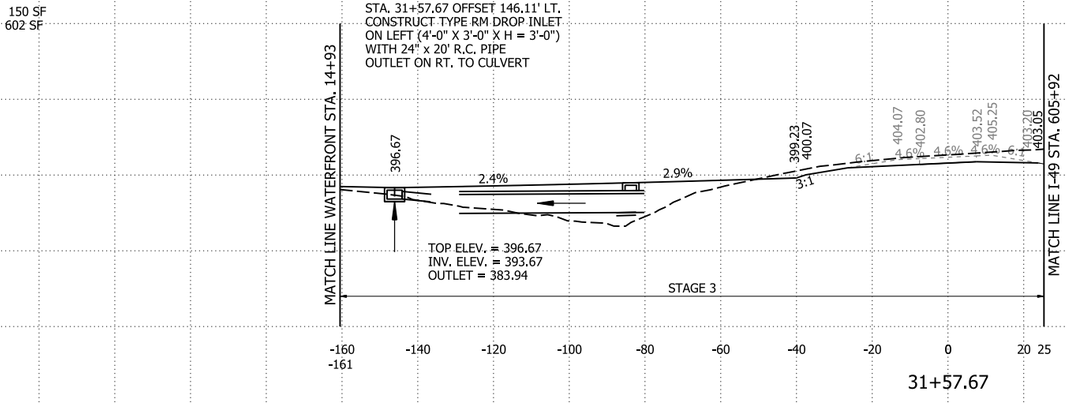
STG. 3 CUT VOLUME 265 CY
STG. 3 FILL VOLUME 529 CY



STG. 3 AREA CUT 150 SF
STG. 3 AREA FILL 602 SF

STA. 31+57.67 OFFSET 146.11' LT.
CONSTRUCT TYPE RM DROP INLET
ON LEFT (4'-0" X 3'-0" X H = 3'-0")
WITH 24" x 20' R.C. PIPE
OUTLET ON RT. TO CULVERT

STG. 3 CUT VOLUME 187 CY
STG. 3 FILL VOLUME 1423 CY



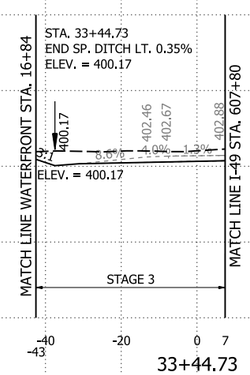
CC RAMP 3 STA. 31+57.67 TO STA. 32+20

4/30/2026 8:15:19 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	608	742
		CROSS SECTIONS				

STG. 3 AREA CUT 187 SF
STG. 3 AREA FILL 0 SF

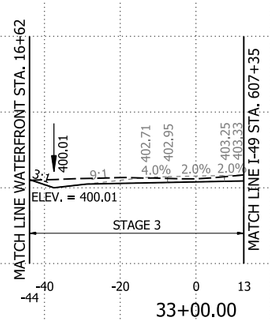
STG. 3 CUT VOLUME 187 CY
STG. 3 FILL VOLUME 0 CY



33+44.73
END CC RAMP 3

STG. 3 AREA CUT 74 SF
STG. 3 AREA FILL 0 SF

STG. 3 CUT VOLUME 378 CY
STG. 3 FILL VOLUME 0 CY



33+00.00

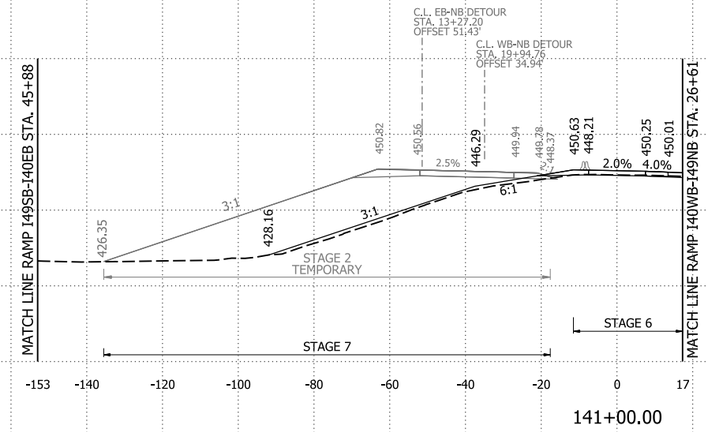
CC RAMP 3 STA. 33+00.00 TO STA. 33+44.73

4/30/2026 8:15:20 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	609	742
		CROSS SECTIONS				

STG. 2 AREA CUT 1 SF
STG. 2 AREA FILL 919 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 5 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 945 SF
STG. 7 AREA FILL 7 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



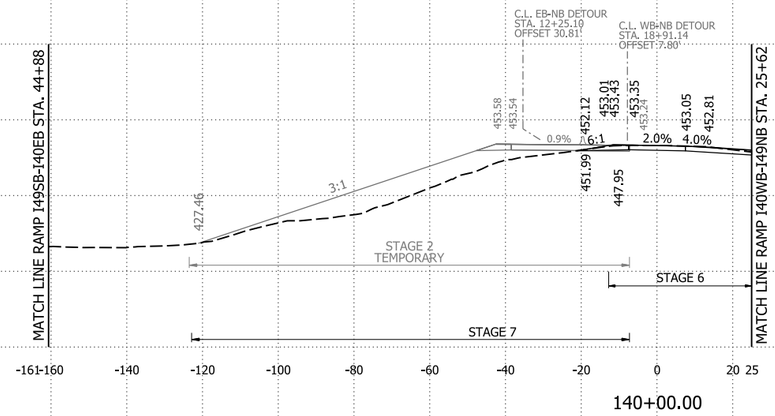
141+00.00

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 25 CY
STG. 2 FILL VOLUME 2339 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 81 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 2493 CY
STG. 7 FILL VOLUME 12 CY

STG. 2 AREA CUT 13 SF
STG. 2 AREA FILL 344 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 39 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 402 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



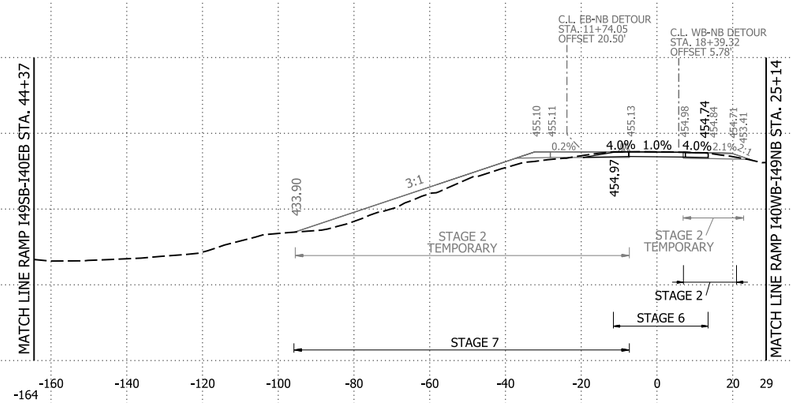
140+00.00

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 43 CY
STG. 2 FILL VOLUME 426 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 75 CY
STG. 6 UNDERCUT 8 CY
STG. 7 CUT VOLUME 517 CY
STG. 7 FILL VOLUME 0 CY

STG. 2 AREA CUT 34 SF
STG. 2 AREA FILL 115 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 42 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 157 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF



139+50.00
BEGIN RAMP I40EB-I49NB

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

RAMP I40EB-I49NB STA. 139+50 TO STA. 141+00

4/30/2026 8:15:20 AM
R040904_22_CX.dgn

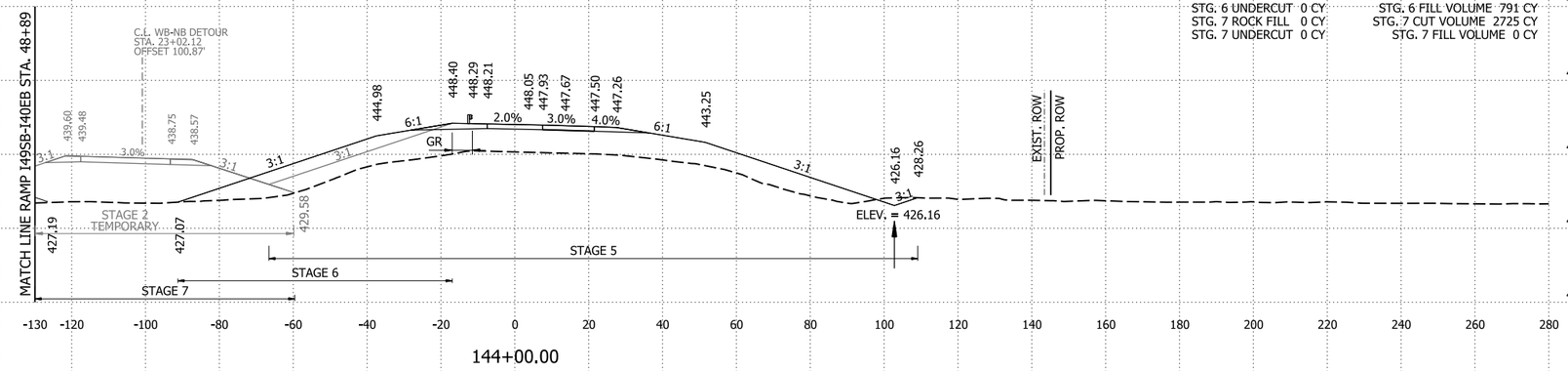
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	610	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 616 SF
STG. 5 AREA CUT 12 SF
STG. 5 AREA FILL 744 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 283 SF
STG. 7 AREA CUT 582 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 2913 CY
STG. 5 CUT VOLUME 24 CY
STG. 5 FILL VOLUME 2239 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 791 CY
STG. 7 CUT VOLUME 2725 CY
STG. 7 FILL VOLUME 0 CY



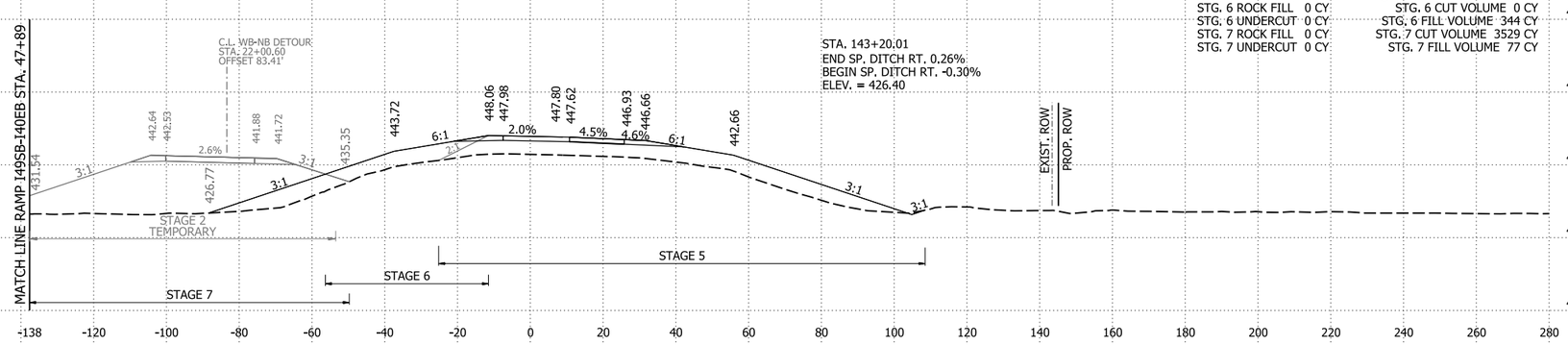
144+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 957 SF
STG. 5 AREA CUT 1 SF
STG. 5 AREA FILL 465 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 144 SF
STG. 7 AREA CUT 889 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 3473 CY
STG. 5 CUT VOLUME 2 CY
STG. 5 FILL VOLUME 888 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 344 CY
STG. 7 CUT VOLUME 3529 CY
STG. 7 FILL VOLUME 77 CY



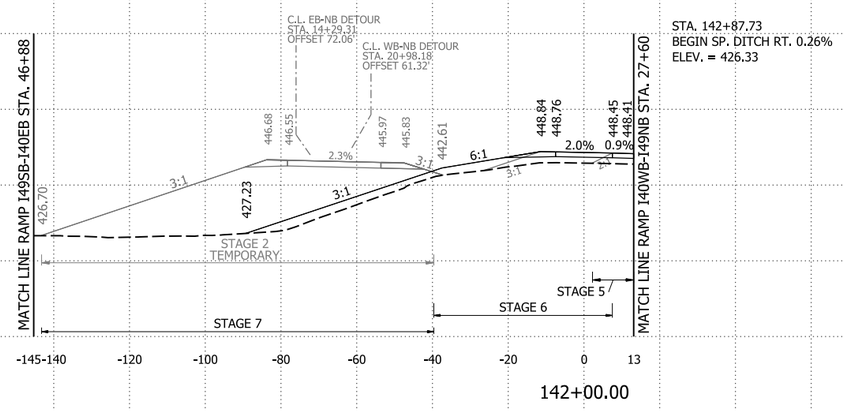
143+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 919 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 15 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 42 SF
STG. 7 AREA CUT 1016 SF
STG. 7 AREA FILL 42 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 1 CY
STG. 2 FILL VOLUME 3404 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 27 CY
STG. 6 CUT VOLUME 9 CY
STG. 6 FILL VOLUME 78 CY
STG. 7 CUT VOLUME 3631 CY
STG. 7 FILL VOLUME 89 CY



142+00.00

RAMP I40EB-I49NB STA. 142+00 TO STA. 144+00

9/3/2026 2:24:05 PM
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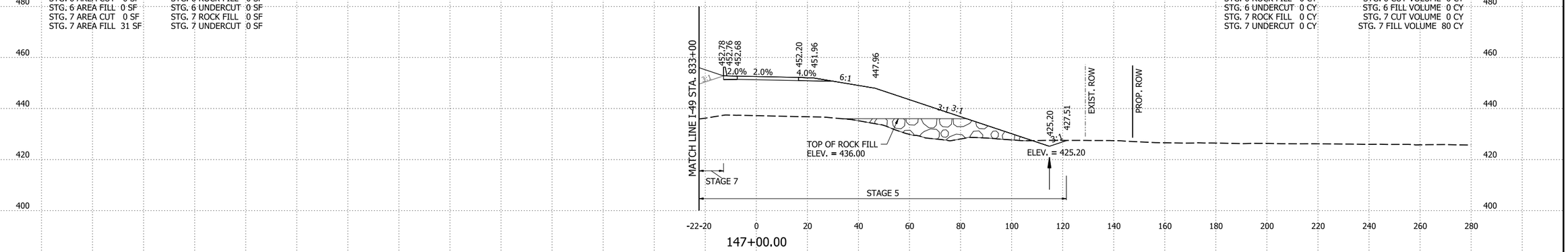
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	611	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 16 SF
STG. 5 AREA FILL 1177 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 31 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 330 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 1060 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 59 CY
STG. 5 FILL VOLUME 4151 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 80 CY

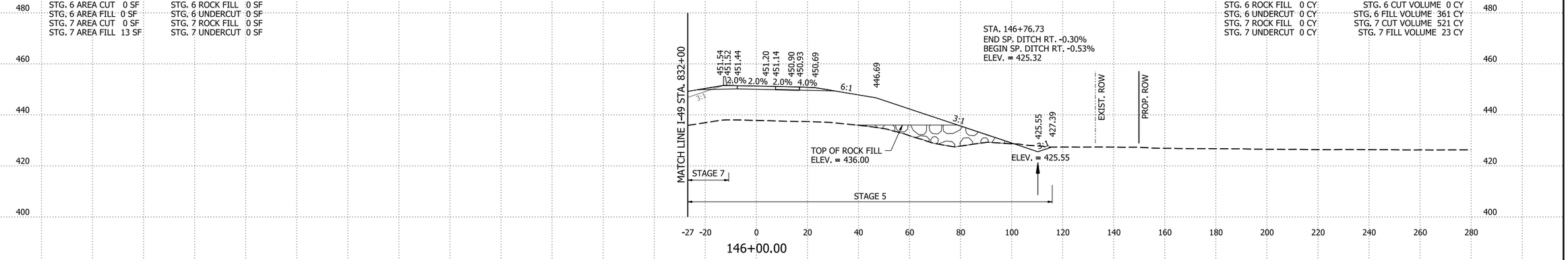


STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 16 SF
STG. 5 AREA FILL 1064 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 13 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 242 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 524 CY
STG. 5 CUT VOLUME 71 CY
STG. 5 FILL VOLUME 4320 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 361 CY
STG. 7 CUT VOLUME 521 CY
STG. 7 FILL VOLUME 23 CY

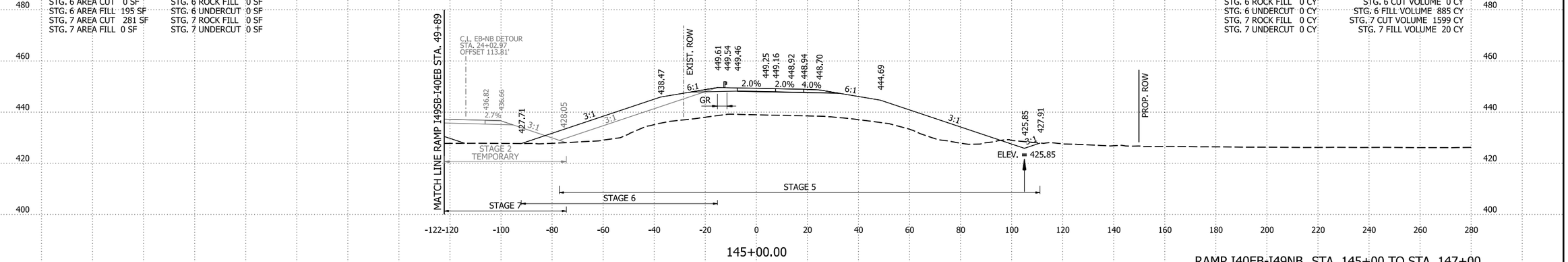


STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 283 SF
STG. 5 AREA CUT 22 SF
STG. 5 AREA FILL 1269 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 195 SF
STG. 7 AREA CUT 281 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 1666 CY
STG. 5 CUT VOLUME 63 CY
STG. 5 FILL VOLUME 3727 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 885 CY
STG. 7 CUT VOLUME 1599 CY
STG. 7 FILL VOLUME 20 CY



RAMP I40EB-I49NB STA. 145+00 TO STA. 147+00

9/4/2026 8:38:01 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	612	742

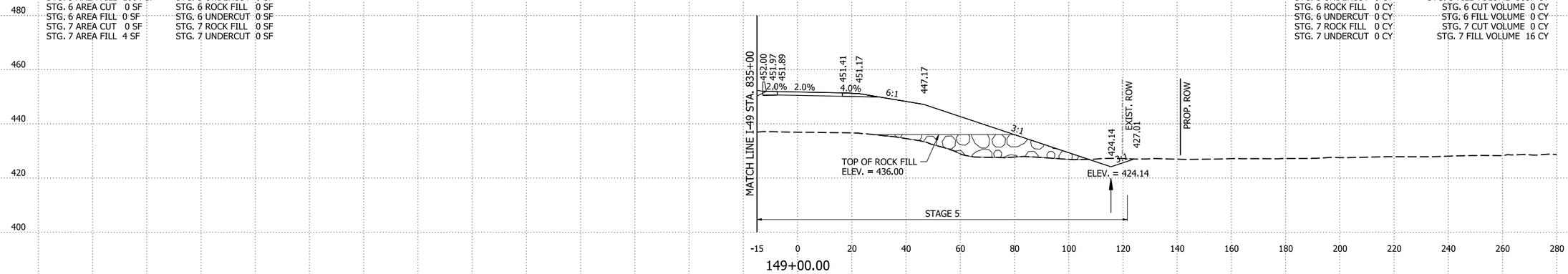
CROSS SECTIONS

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 27 SF
STG. 5 AREA FILL 1004 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 4 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 360 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 1045 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 47 CY
STG. 5 FILL VOLUME 3037 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 16 CY



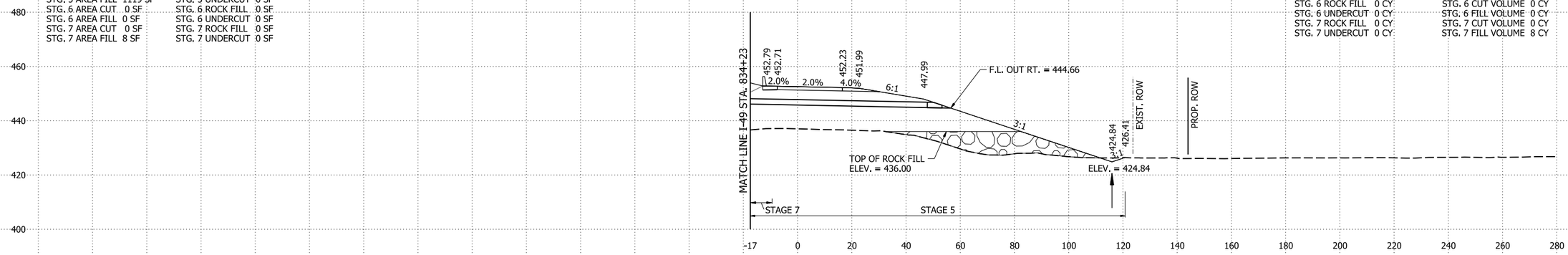
149+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 6 SF
STG. 5 AREA FILL 1119 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 8 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 370 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 315 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 5 CY
STG. 5 FILL VOLUME 955 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 8 CY



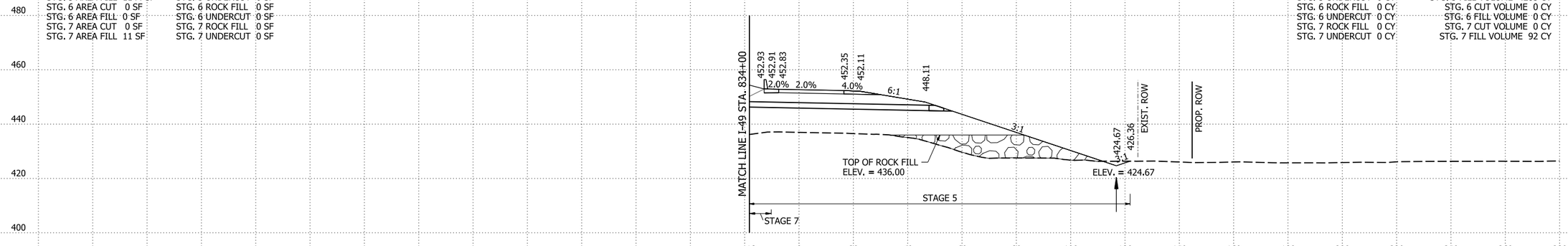
148+22.79

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 6 SF
STG. 5 AREA FILL 1144 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 11 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 375 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 1306 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 40 CY
STG. 5 FILL VOLUME 4285 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 92 CY



148+00.00

RAMP I40EB-I49NB STA. 148+00 TO STA. 149+00

4/30/2026 8:15:21 AM
R040904_22_CX.dgn

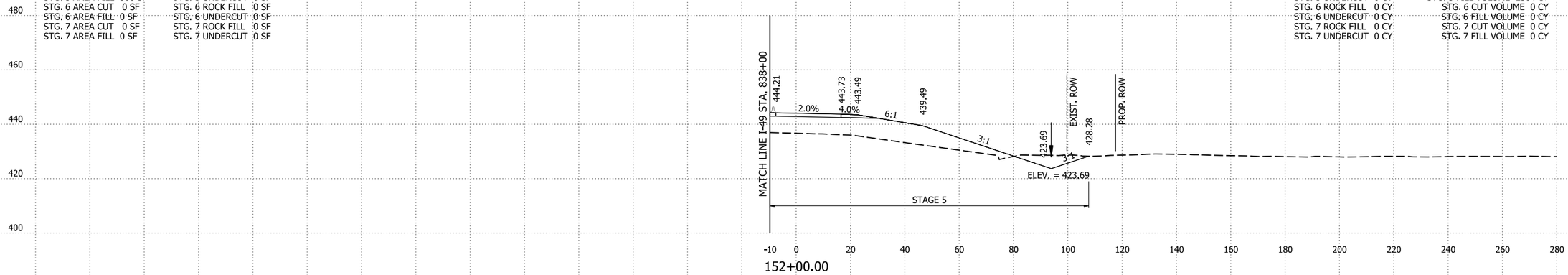
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	613	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 71 SF
STG. 5 AREA FILL 506 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 297 CY
STG. 5 FILL VOLUME 2364 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

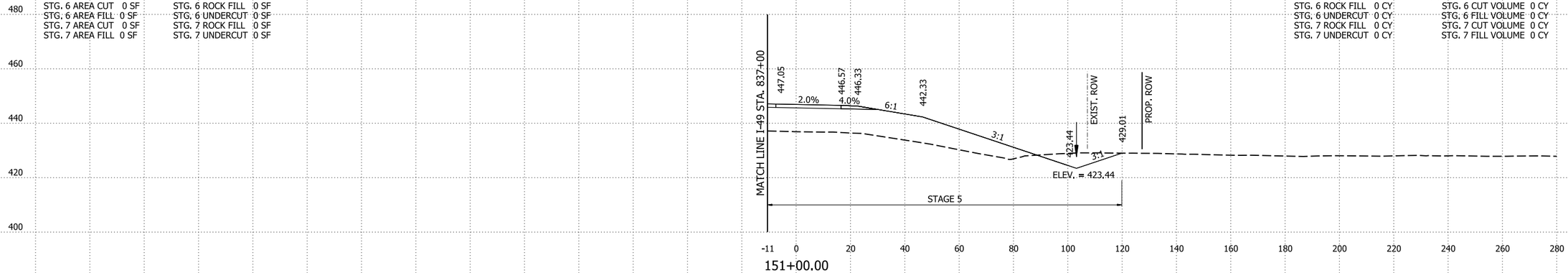


STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 89 SF
STG. 5 AREA FILL 771 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 300 CY
STG. 5 FILL VOLUME 3418 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

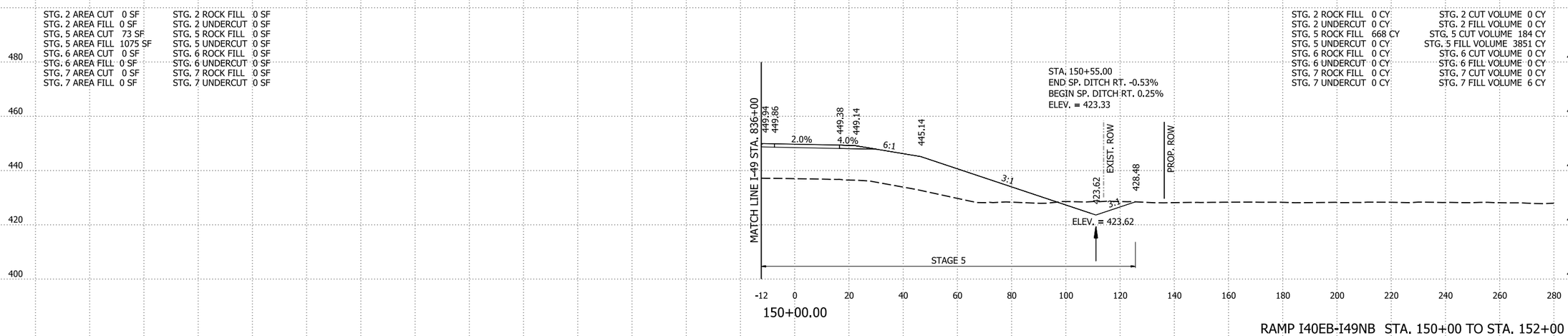


STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 73 SF
STG. 5 AREA FILL 1075 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 668 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 184 CY
STG. 5 FILL VOLUME 3851 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 6 CY



RAMP I40EB-I49NB STA. 150+00 TO STA. 152+00

4/30/2026 8:15:22 AM
R040904_22_CX.dgn

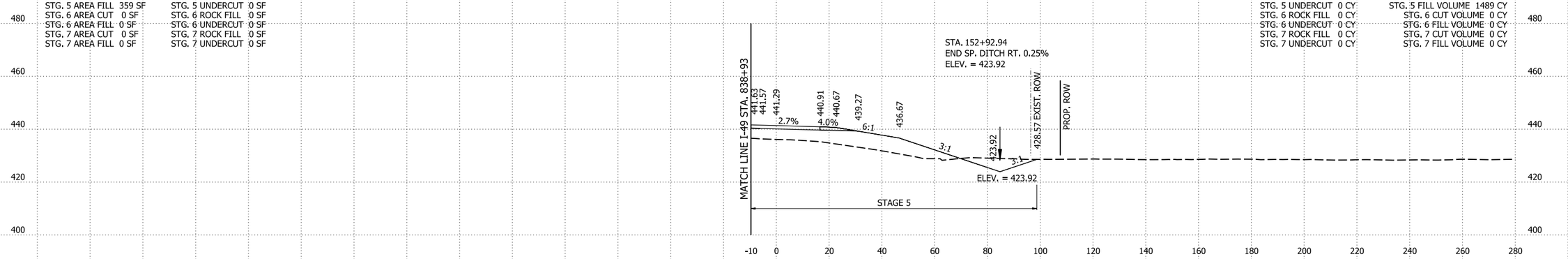
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	614	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 75 SF
STG. 5 AREA FILL 359 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 251 CY
STG. 5 FILL VOLUME 1489 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



152+92.94
END RAMP I40EB-I49NB

RAMP I40EB-I49NB STA. 151+92.94 TO STA. 152+92.94

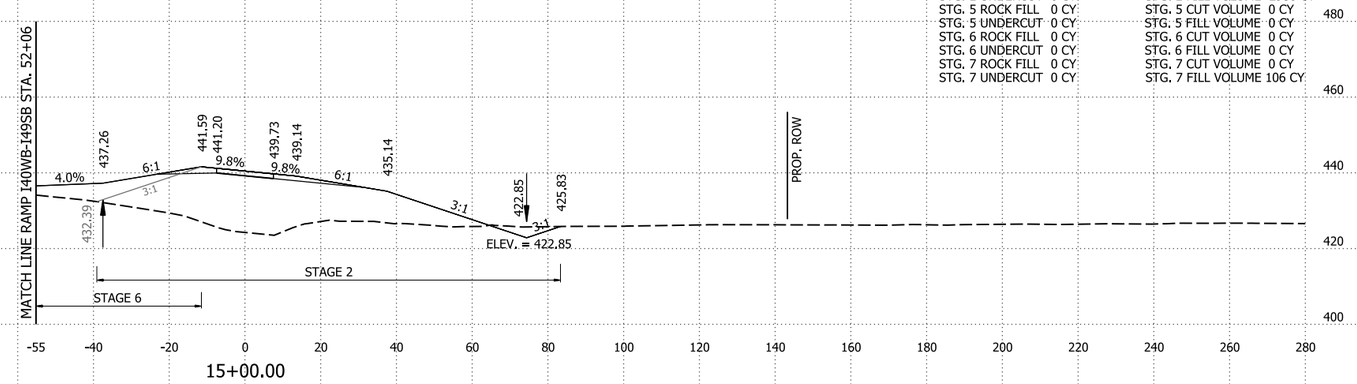
4/30/2026 8:15:22 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	615	742

CROSS SECTIONS

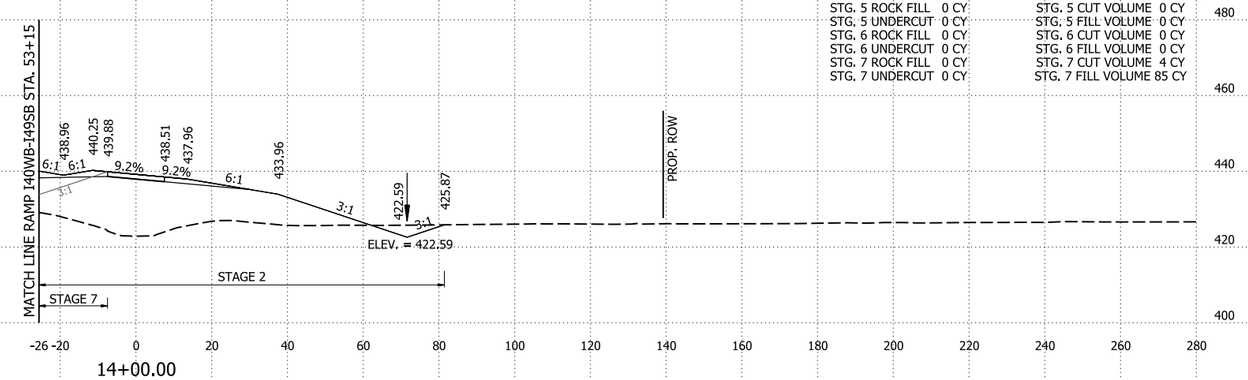
STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 27 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 851 SF	STG. 2 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 9 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 161 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 106 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 2986 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 106 CY



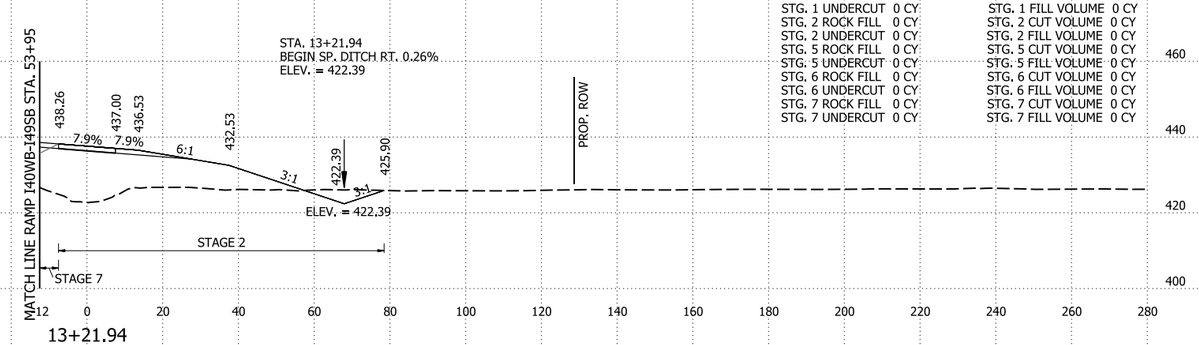
STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 31 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 761 SF	STG. 2 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 2 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 57 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 102 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 1900 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 4 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 85 CY



STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 40 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 553 SF	STG. 2 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 1 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 2 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



RAMP I40WB-I49NB STA. 13+21.94 TO STA. 15+00

4/30/2026 8:15:22 AM
R040904_22_CX.dgn

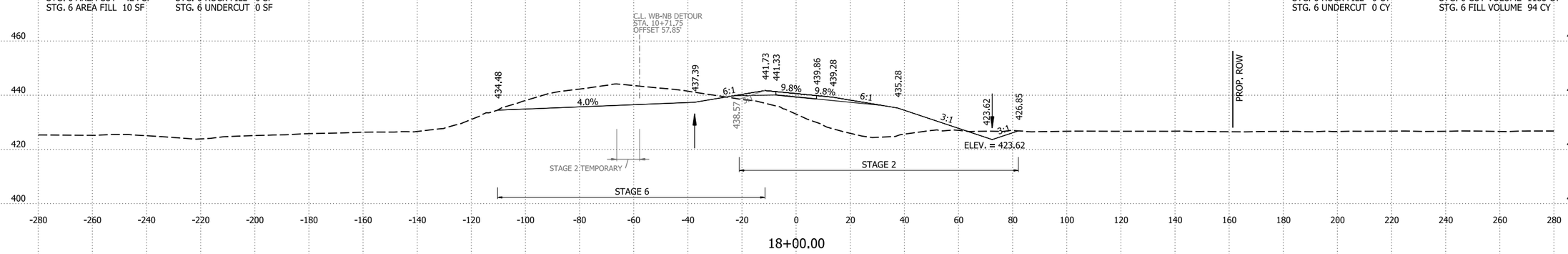
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	616	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 29 SF
STG. 2 AREA FILL 567 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 424 SF
STG. 6 AREA FILL 10 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 111 CY
STG. 2 FILL VOLUME 2283 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 1185 CY
STG. 6 FILL VOLUME 94 CY



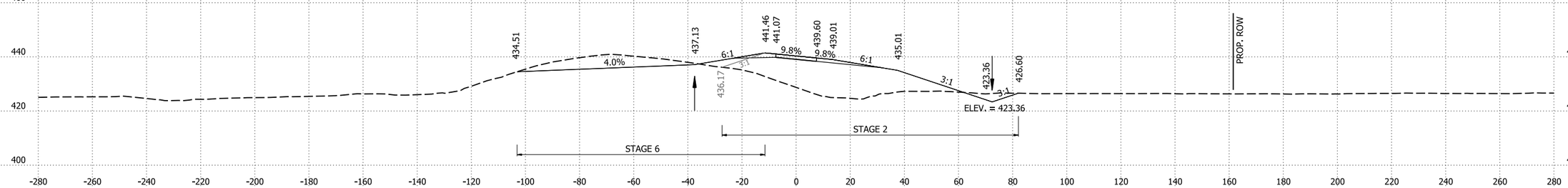
18+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 31 SF
STG. 2 AREA FILL 665 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 215 SF
STG. 6 AREA FILL 41 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 104 CY
STG. 2 FILL VOLUME 2762 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 415 CY
STG. 6 FILL VOLUME 303 CY



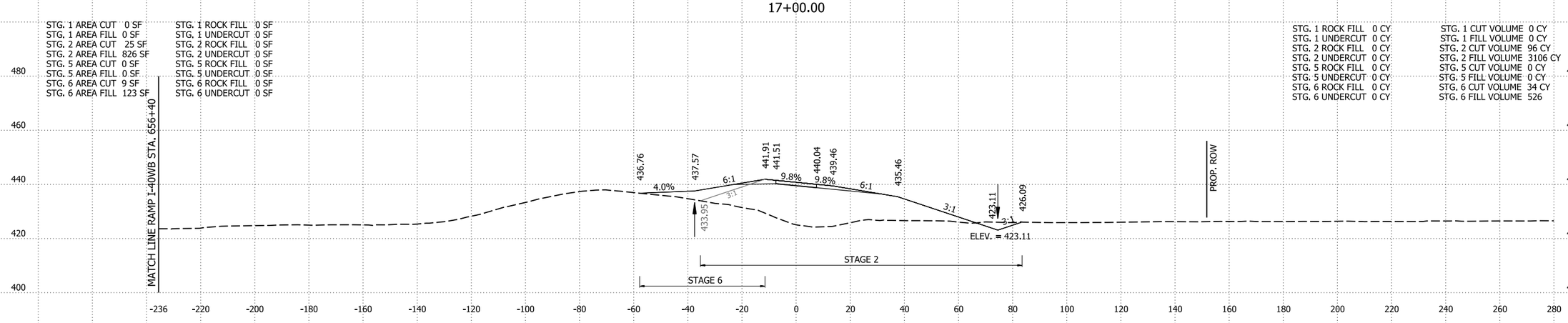
17+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 25 SF
STG. 2 AREA FILL 826 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 9 SF
STG. 6 AREA FILL 123 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 96 CY
STG. 2 FILL VOLUME 3106 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 34 CY
STG. 6 FILL VOLUME 526



16+00.00

RAMP I40WB-I49NB STA. 16+00 TO STA. 18+00

4/30/2026 8:15:23 AM
R040904_22_CX.dgn

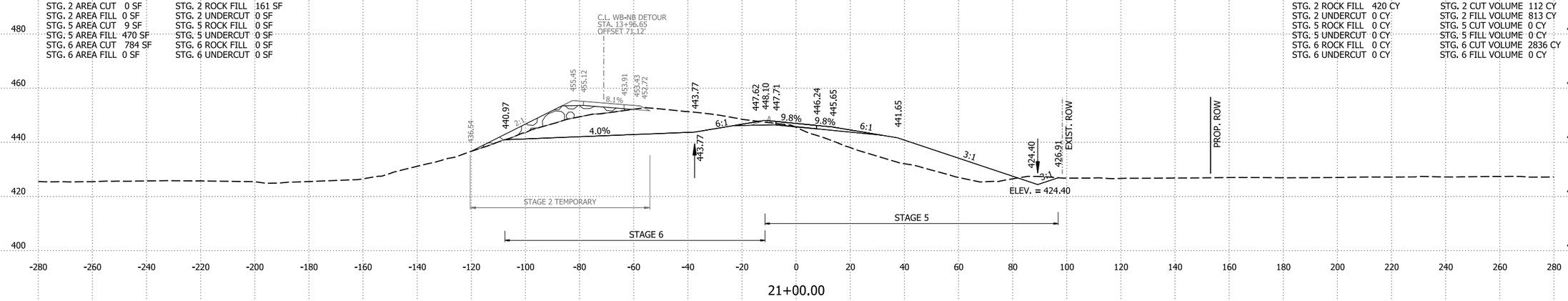
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	617	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 9 SF
STG. 5 AREA FILL 470 SF
STG. 6 AREA CUT 784 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 161 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 420 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 112 CY
STG. 2 FILL VOLUME 813 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 2836 CY
STG. 6 FILL VOLUME 0 CY



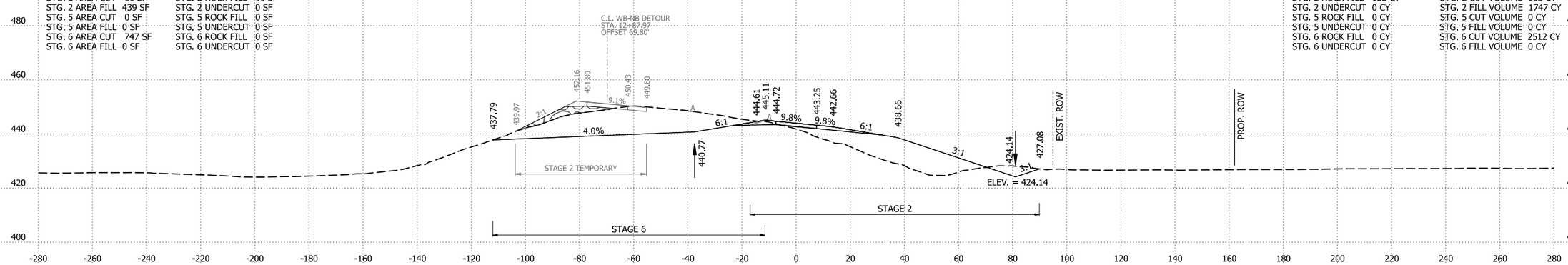
21+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 61 SF
STG. 2 AREA FILL 439 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 747 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 66 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 122 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 162 CY
STG. 2 FILL VOLUME 1747 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 2512 CY
STG. 6 FILL VOLUME 0 CY



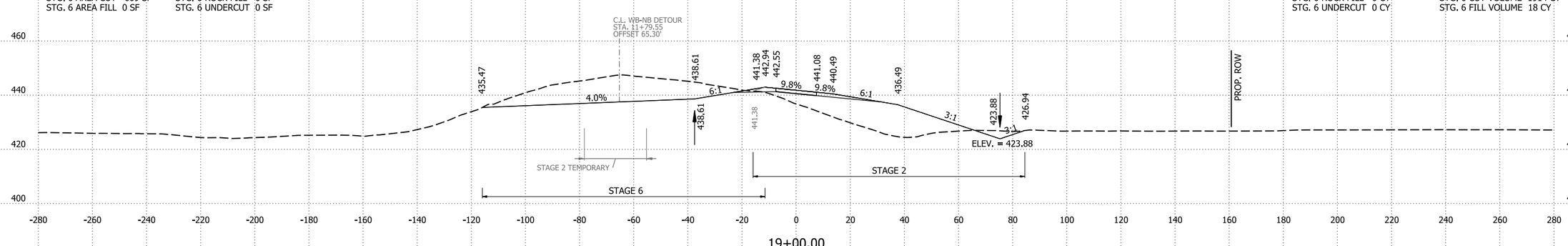
20+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 27 SF
STG. 2 AREA FILL 504 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 609 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 104 CY
STG. 2 FILL VOLUME 1985 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 1914 CY
STG. 6 FILL VOLUME 18 CY



19+00.00

RAMP I40WB-I49NB STA. 19+00 TO STA. 21+00

9/3/2026 2:24:09 PM
R040904_22_CX.dgn

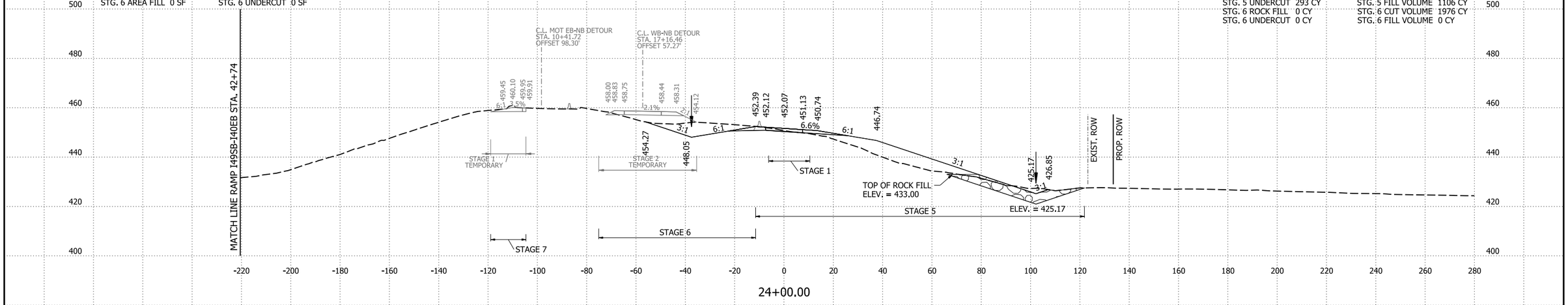
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	618	742
		CROSS SECTIONS				

STG. 1 AREA CUT 19 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 23 SF
STG. 2 AREA FILL 75 SF
STG. 5 AREA CUT 13 SF
STG. 5 AREA FILL 251 SF
STG. 6 AREA CUT 263 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 16 SF
STG. 5 UNDERCUT 158 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 819 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 139 CY
STG. 5 UNDERCUT 293 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 42 CY
STG. 2 FILL VOLUME 436 CY
STG. 5 CUT VOLUME 31 CY
STG. 5 FILL VOLUME 1106 CY
STG. 6 CUT VOLUME 1976 CY
STG. 6 FILL VOLUME 0 CY

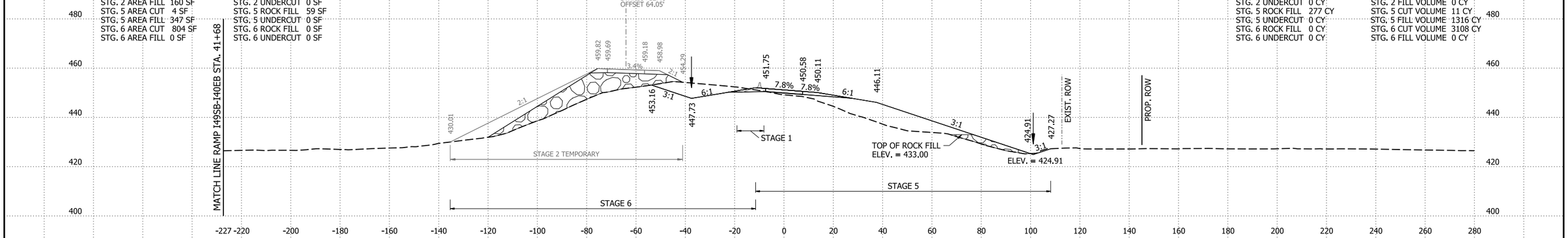


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 160 SF
STG. 5 AREA CUT 4 SF
STG. 5 AREA FILL 347 SF
STG. 6 AREA CUT 804 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 441 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 59 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 1569 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 277 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 11 CY
STG. 5 FILL VOLUME 1316 CY
STG. 6 CUT VOLUME 3108 CY
STG. 6 FILL VOLUME 0 CY

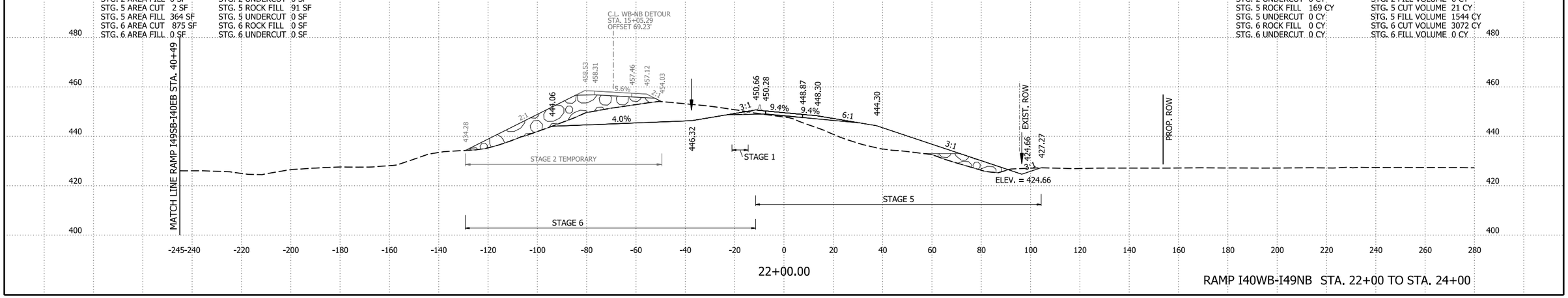


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 2 SF
STG. 5 AREA FILL 364 SF
STG. 6 AREA CUT 875 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 406 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 91 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 1051 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 169 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 21 CY
STG. 5 FILL VOLUME 1544 CY
STG. 6 CUT VOLUME 3072 CY
STG. 6 FILL VOLUME 0 CY



RAMP I40WB-I49NB STA. 22+00 TO STA. 24+00

9/3/2026 2:24:09 PM
R040904_22_CX.dgn

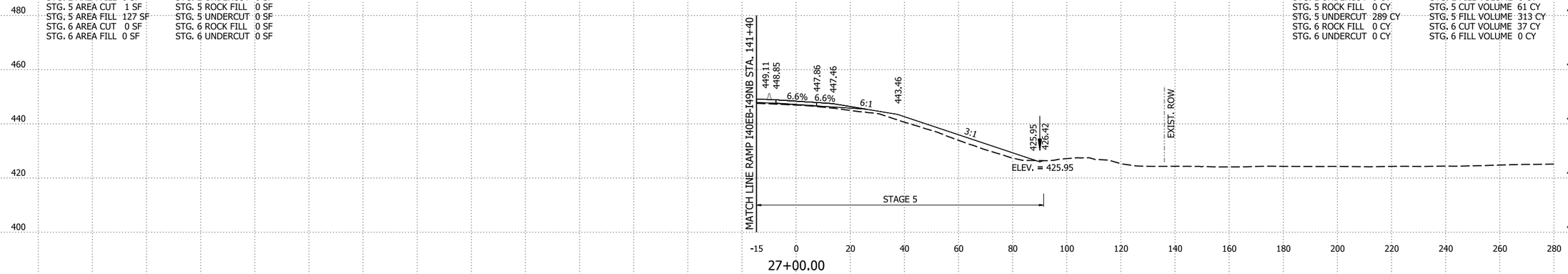
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	619	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 1 SF
STG. 5 AREA FILL 127 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 289 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 61 CY
STG. 5 FILL VOLUME 313 CY
STG. 6 CUT VOLUME 37 CY
STG. 6 FILL VOLUME 0 CY



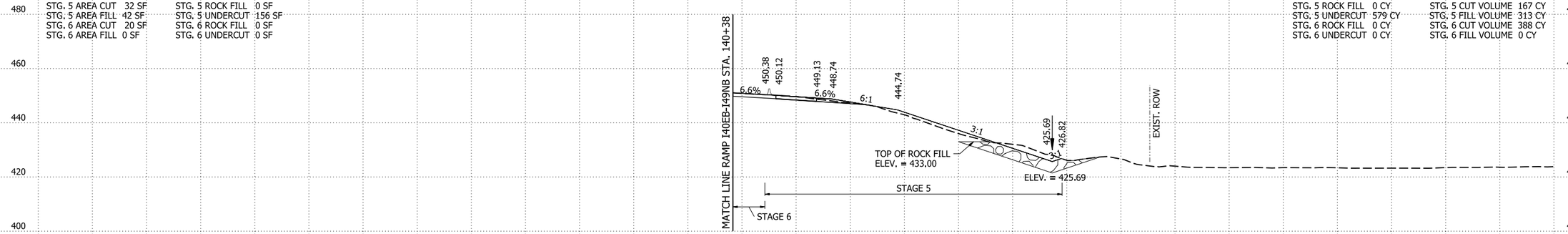
27+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 32 SF
STG. 5 AREA FILL 42 SF
STG. 6 AREA CUT 20 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 156 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 579 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 23 CY
STG. 1 FILL VOLUME 8 CY
STG. 2 CUT VOLUME 54 CY
STG. 2 FILL VOLUME 8 CY
STG. 5 CUT VOLUME 167 CY
STG. 5 FILL VOLUME 313 CY
STG. 6 CUT VOLUME 388 CY
STG. 6 FILL VOLUME 0 CY



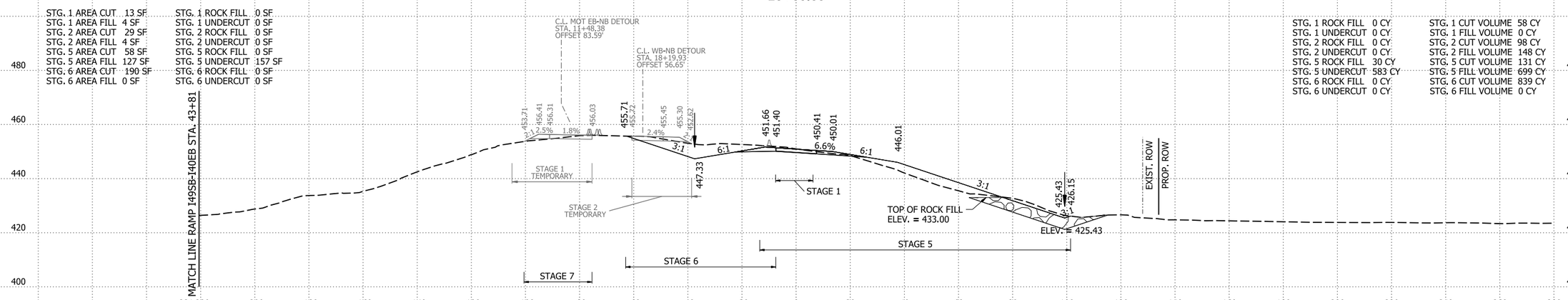
26+00.00

STG. 1 AREA CUT 13 SF
STG. 1 AREA FILL 4 SF
STG. 2 AREA CUT 29 SF
STG. 2 AREA FILL 4 SF
STG. 5 AREA CUT 58 SF
STG. 5 AREA FILL 127 SF
STG. 6 AREA CUT 190 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 157 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 30 CY
STG. 5 UNDERCUT 583 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 58 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 98 CY
STG. 2 FILL VOLUME 148 CY
STG. 5 CUT VOLUME 131 CY
STG. 5 FILL VOLUME 699 CY
STG. 6 CUT VOLUME 839 CY
STG. 6 FILL VOLUME 0 CY



25+00.00

RAMP I40WB-I49NB STA. 25+00 TO STA. 27+00

4/30/2026 8:15:24 AM
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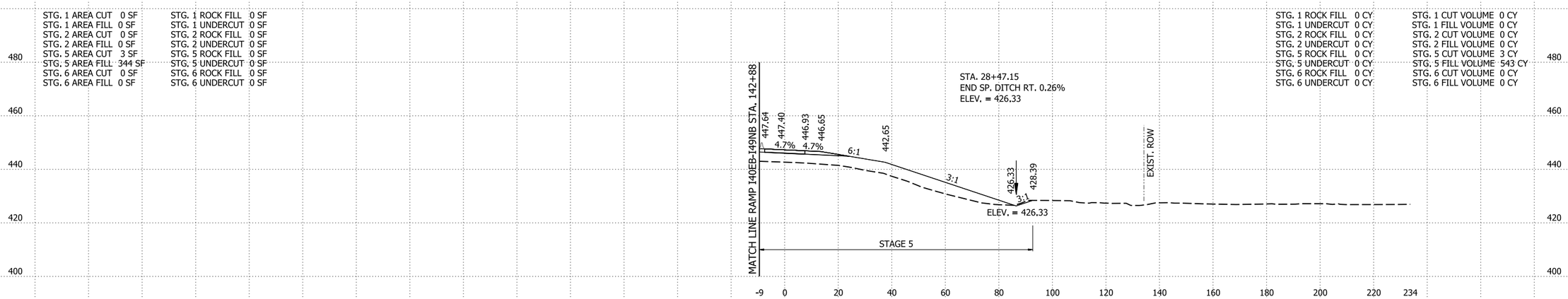
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	620	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 3 SF
STG. 5 AREA FILL 344 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 3 CY
STG. 5 FILL VOLUME 543 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY



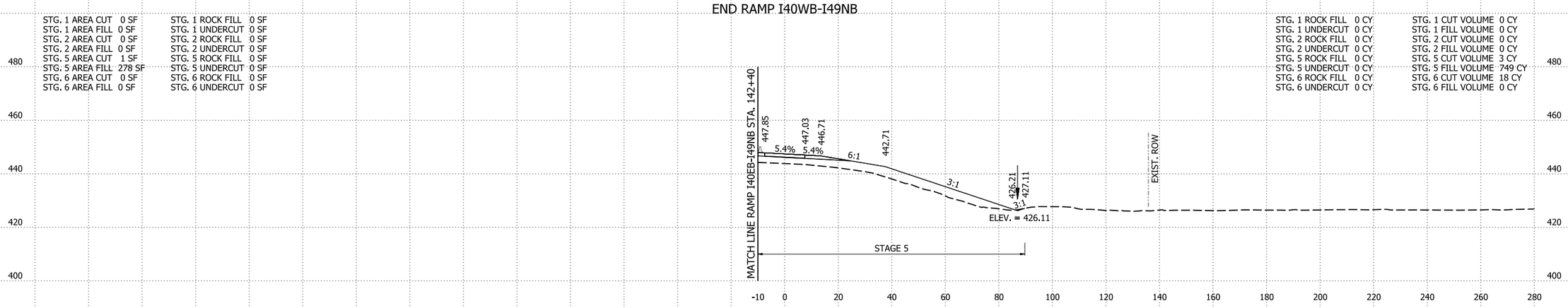
28+47.15
END RAMP I40WB-I49NB

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 5 AREA CUT 1 SF
STG. 5 AREA FILL 278 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 3 CY
STG. 5 FILL VOLUME 749 CY
STG. 6 CUT VOLUME 18 CY
STG. 6 FILL VOLUME 0 CY



28+00.00

RAMP I40WB-I49NB STA. 28+00 TO STA. 28+47.15

4/30/2026 8:15:25 AM
R040904_22_CX.dgn

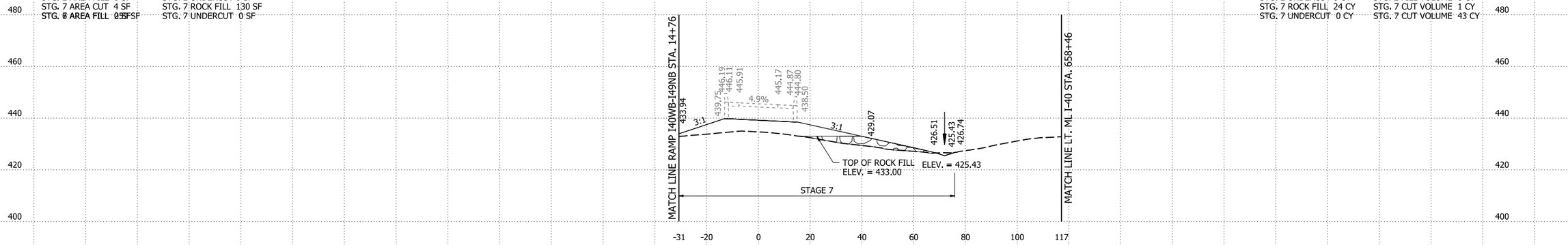
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	621	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 7 AREA CUT 4 SF
STG. 7 AREA FILL 155 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 130 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 24 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 1 CY
STG. 7 CUT VOLUME 43 CY



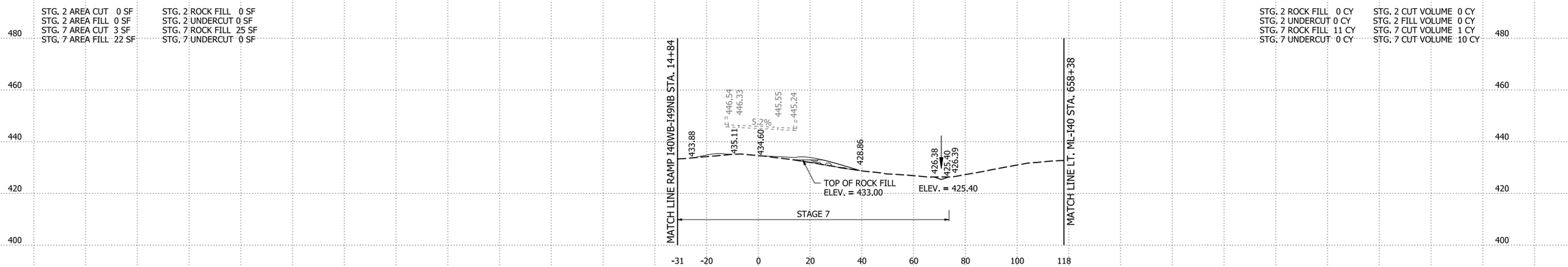
52+32.52
END FUTURE BRIDGE BY OTHERS

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 7 AREA CUT 3 SF
STG. 7 AREA FILL 22 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 25 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 11 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 1 CY
STG. 7 CUT VOLUME 10 CY



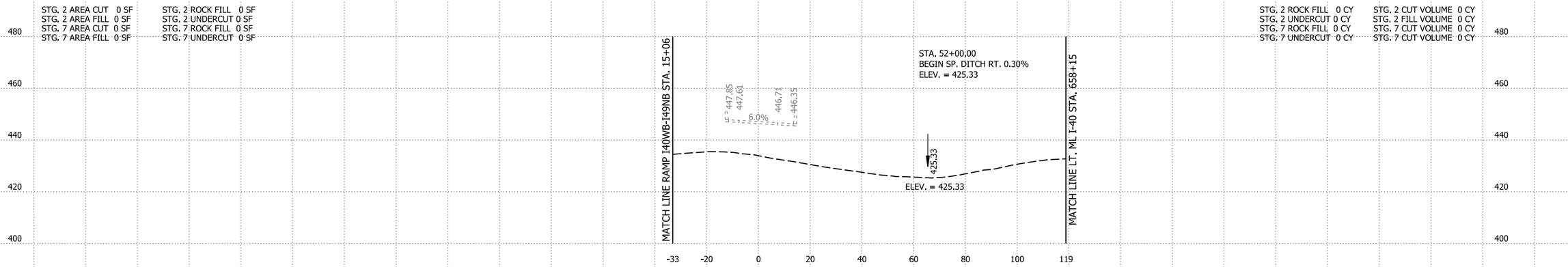
52+24.23

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY



52+00.00
GRADING TOE OF SLOPE

RAMP I40WB-I49SB STA. 52+00 TO STA. 52+32.52

4/30/2026 8:15:25 AM
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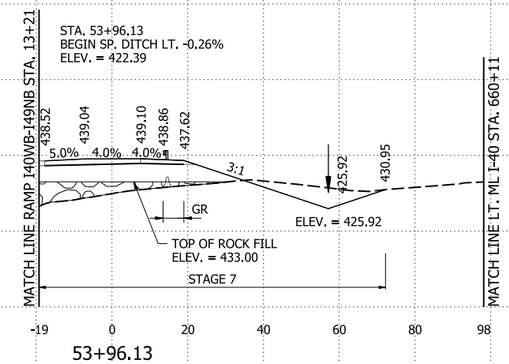
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	622	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 3 SF
STG. 7 AREA CUT 102 SF
STG. 7 AREA FILL 221 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 63 SF
STG. 7 UNDERCUT 0 SF



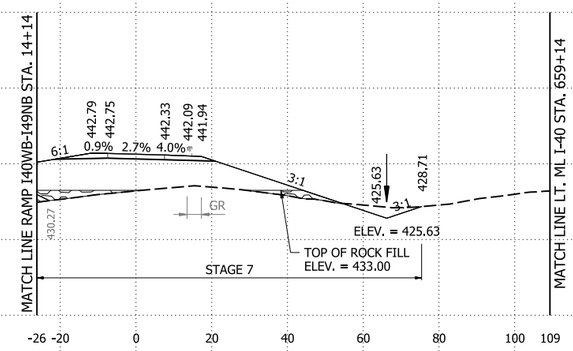
53+96.13

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 348 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 4 CY
STG. 7 CUT VOLUME 234 CY
STG. 7 CUT VOLUME 1204 CY

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 3 SF
STG. 7 AREA CUT 30 SF
STG. 7 AREA FILL 456 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 63 SF
STG. 7 UNDERCUT 0 SF



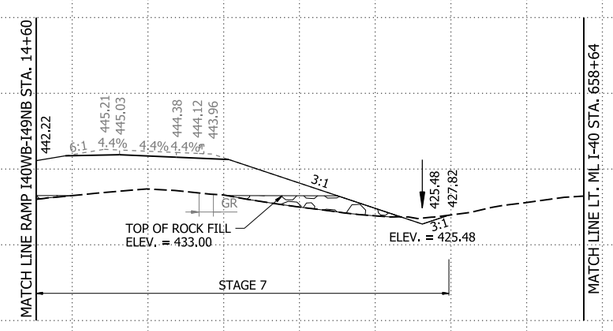
53+00.00

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 155 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 4 CY
STG. 7 CUT VOLUME 36 CY
STG. 7 CUT VOLUME 990 CY

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 3 SF
STG. 7 AREA CUT 10 SF
STG. 7 AREA FILL 619 SF

STG. 2 ROCK FILL 3 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 105 SF
STG. 7 UNDERCUT 0 SF



52+50.25
BEGIN GRADING

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 77 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 4 CY
STG. 7 CUT VOLUME 4 CY
STG. 7 CUT VOLUME 288 CY

RAMP I40WB-I49SB STA. 52+50.25 TO STA. 53+96.13

4/30/2026 8:15:25 AM
R040904_22_CX.dgn

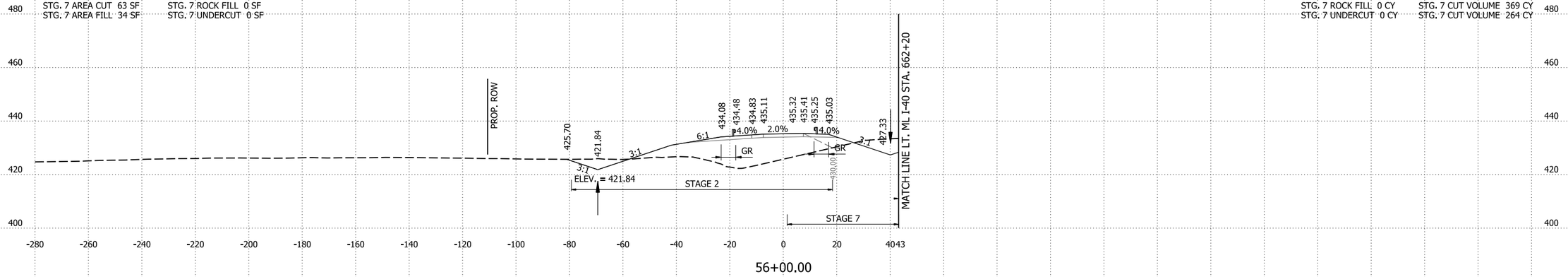
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	623	742
		CROSS SECTIONS				

STG. 2 AREA CUT 46 SF
STG. 2 AREA FILL 478 SF
STG. 7 AREA CUT 63 SF
STG. 7 AREA FILL 34 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 178 CY
STG. 2 FILL VOLUME 1772 CY
STG. 7 CUT VOLUME 369 CY
STG. 7 CUT VOLUME 264 CY

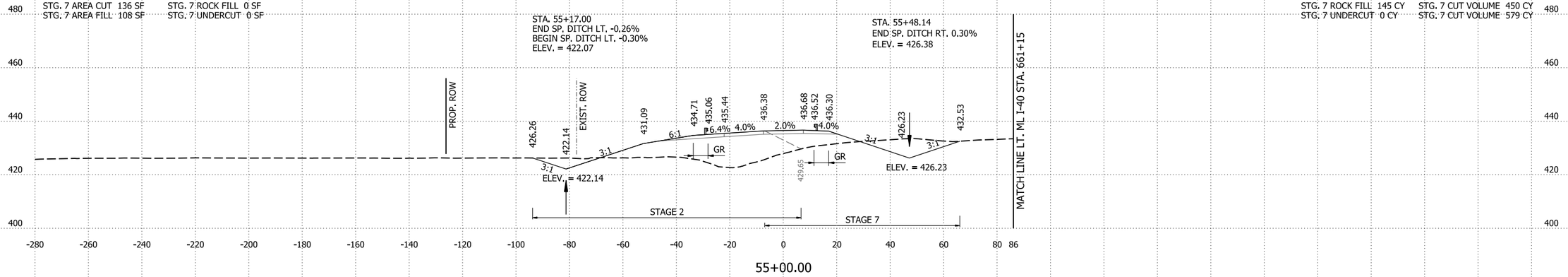


STG. 2 AREA CUT 50 SF
STG. 2 AREA FILL 478 SF
STG. 7 AREA CUT 136 SF
STG. 7 AREA FILL 108 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 953 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 145 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 317 CY
STG. 2 FILL VOLUME 953 CY
STG. 7 CUT VOLUME 450 CY
STG. 7 CUT VOLUME 579 CY

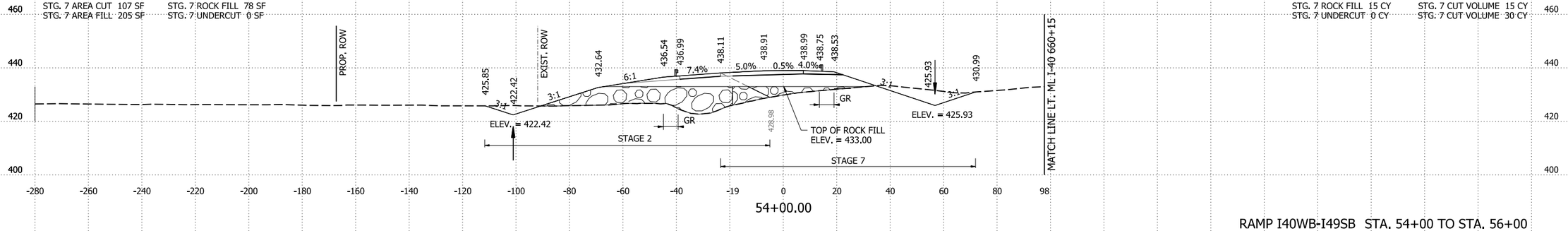


STG. 2 AREA CUT 121 SF
STG. 2 AREA FILL 36 SF
STG. 7 AREA CUT 107 SF
STG. 7 AREA FILL 205 SF

STG. 2 ROCK FILL 515 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 78 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 37 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 15 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 9 CY
STG. 2 FILL VOLUME 3 CY
STG. 7 CUT VOLUME 15 CY
STG. 7 CUT VOLUME 30 CY



RAMP I40WB-I49SB STA. 54+00 TO STA. 56+00

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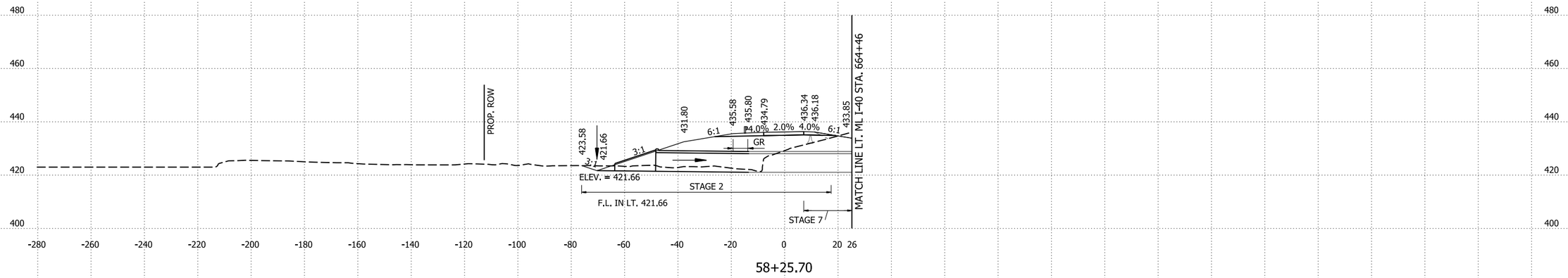
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	624	742
		CROSS SECTIONS				

STG. 2 AREA CUT 10 SF
STG. 2 AREA FILL 584 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 8 CY
STG. 2 FILL VOLUME 557 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY



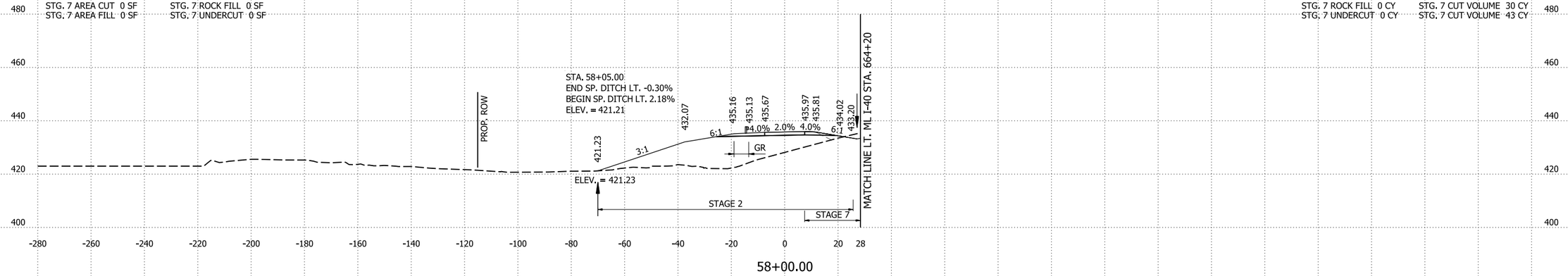
58+25.70

STG. 2 AREA CUT 7 SF
STG. 2 AREA FILL 586 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 83 CY
STG. 2 FILL VOLUME 1999 CY
STG. 7 CUT VOLUME 30 CY
STG. 7 CUT VOLUME 43 CY



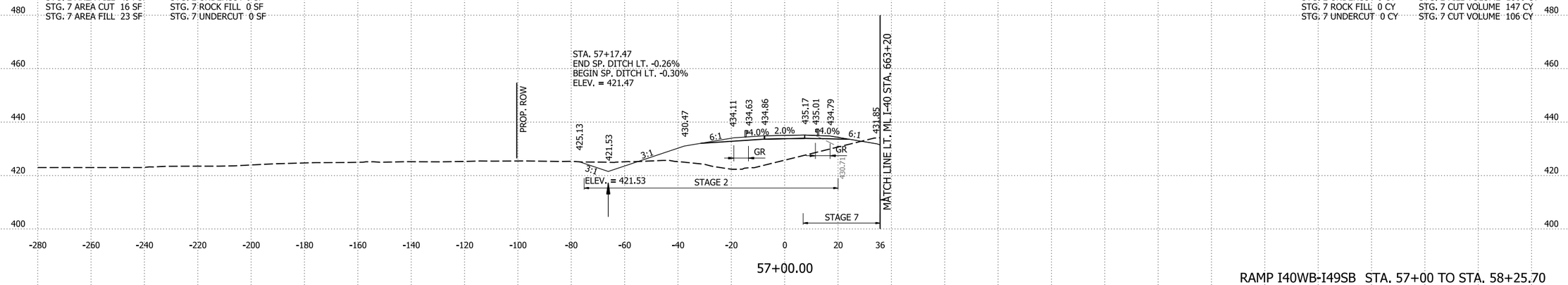
58+00.00

STG. 2 AREA CUT 37 SF
STG. 2 AREA FILL 494 SF
STG. 7 AREA CUT 16 SF
STG. 7 AREA FILL 23 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 155 CY
STG. 2 FILL VOLUME 1800 CY
STG. 7 CUT VOLUME 147 CY
STG. 7 CUT VOLUME 106 CY



57+00.00

RAMP I40WB-I49SB STA. 57+00 TO STA. 58+25.70

4/30/2026 8:15:26 AM
R040904_22_CX.dgn

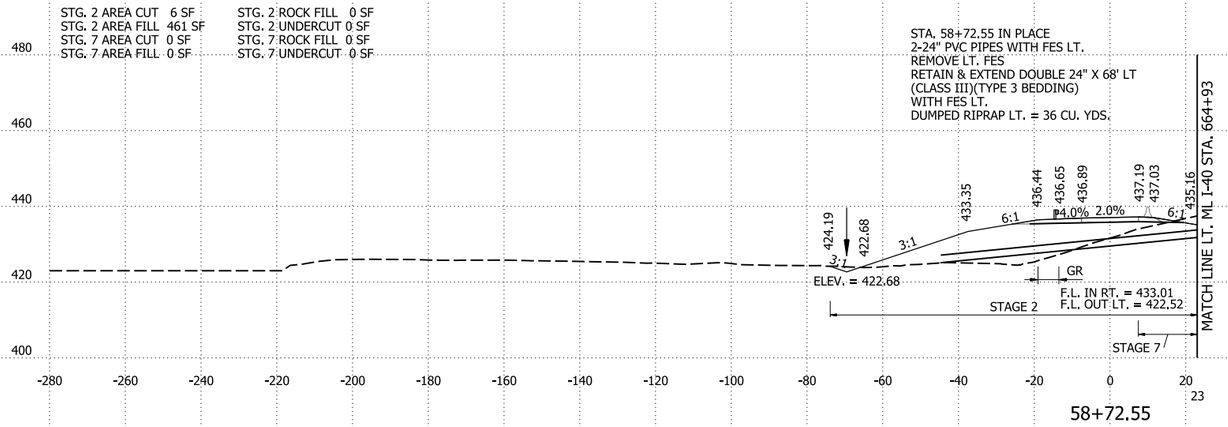
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	625	742
		CROSS SECTIONS				

STG. 2 AREA CUT 6 SF
STG. 2 AREA FILL 461 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 2 CY
STG. 2 FILL VOLUME 165 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY



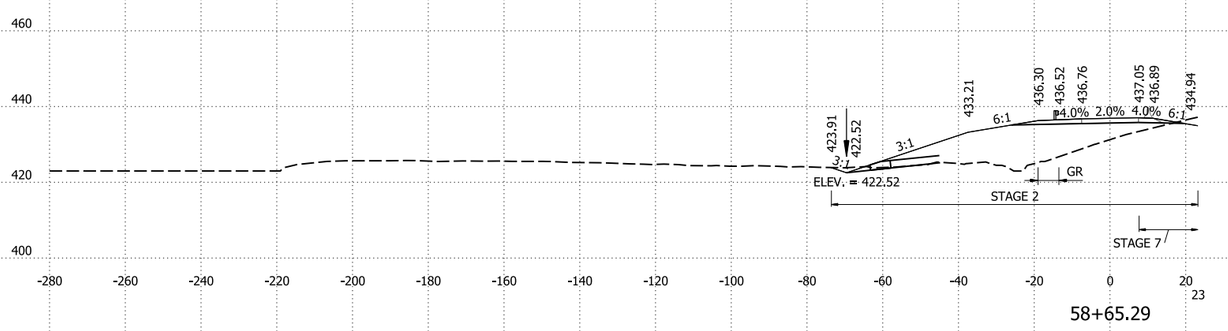
58+72.55

STG. 2 AREA CUT 5 SF
STG. 2 AREA FILL 447 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 8 CY
STG. 2 FILL VOLUME 561 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY



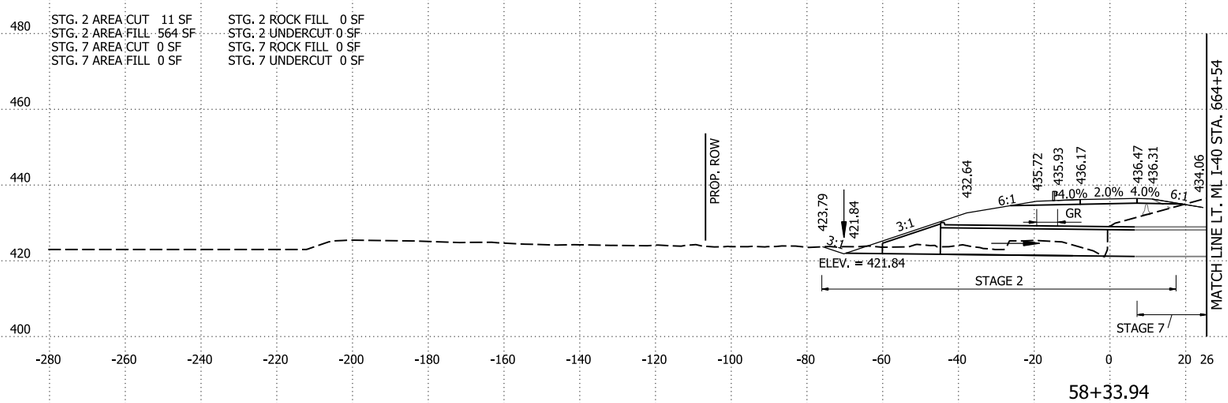
58+65.29

STG. 2 AREA CUT 11 SF
STG. 2 AREA FILL 564 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 3 CY
STG. 2 FILL VOLUME 58 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY



58+33.94

RAMP I40WB-I49SB STA. 58+33.94 TO STA. 58+72.55

4/30/2026 8:15:26 AM
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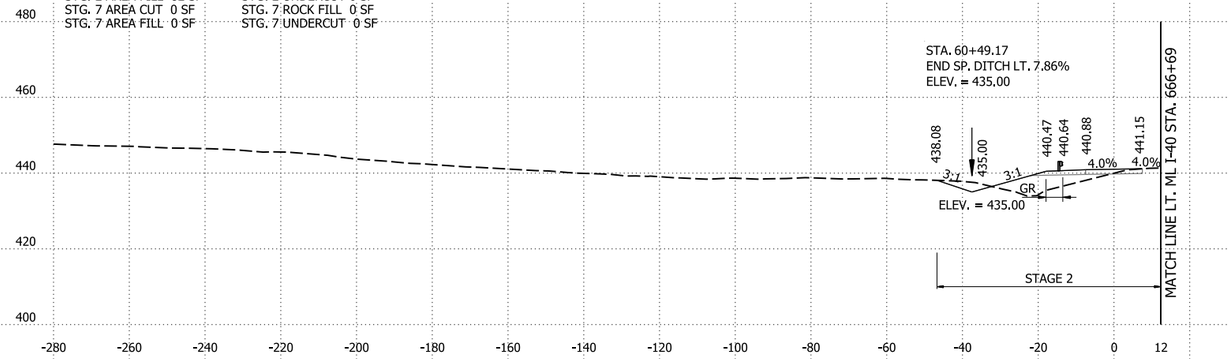
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	626	742
		CROSS SECTIONS				

STG. 2 AREA CUT 26 SF
STG. 2 AREA FILL 82 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 43 CY
STG. 2 FILL VOLUME 231 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY



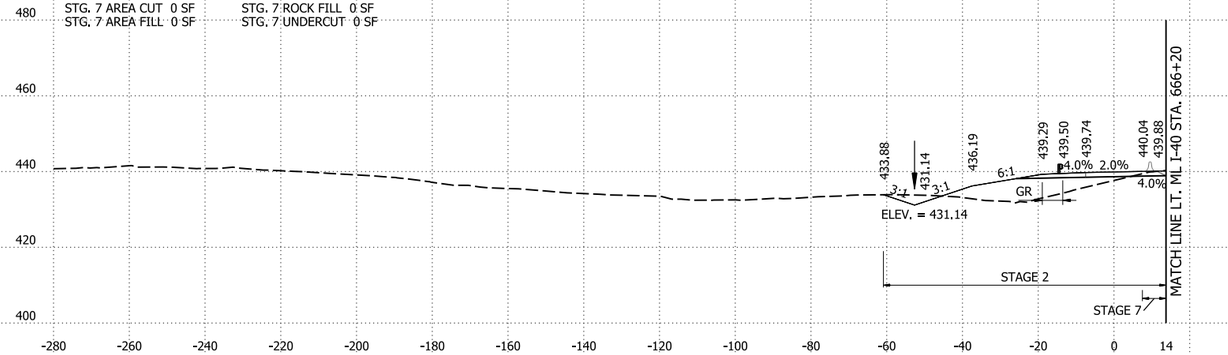
60+49.17
END RAMP I40WB-I49SB

STG. 2 AREA CUT 21 SF
STG. 2 AREA FILL 172 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 67 CY
STG. 2 FILL VOLUME 1032 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY



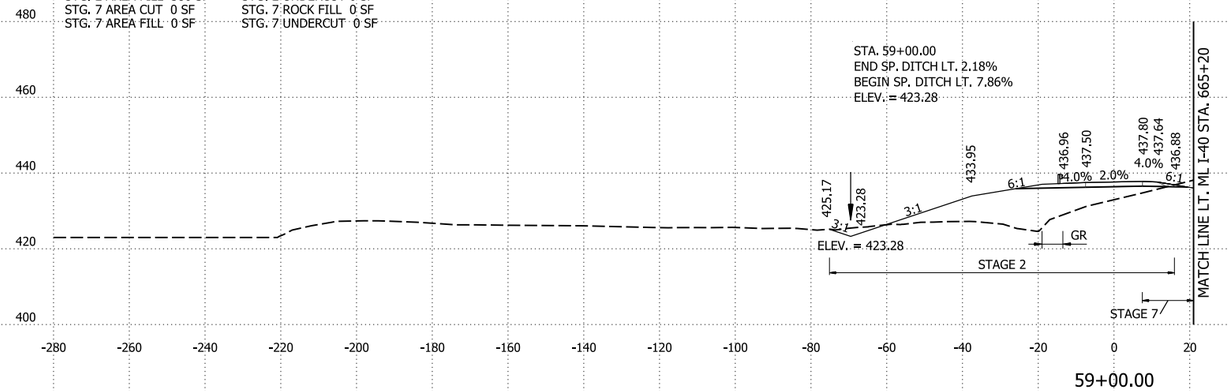
60+00.00

STG. 2 AREA CUT 15 SF
STG. 2 AREA FILL 386 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 2 CUT VOLUME 11 CY
STG. 2 FILL VOLUME 430 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY



59+00.00

RAMP I40WB-I49SB STA. 59+00 TO STA. 60+49.17

4/30/2026 8:15:27 AM
R040904_22_CX.dgn

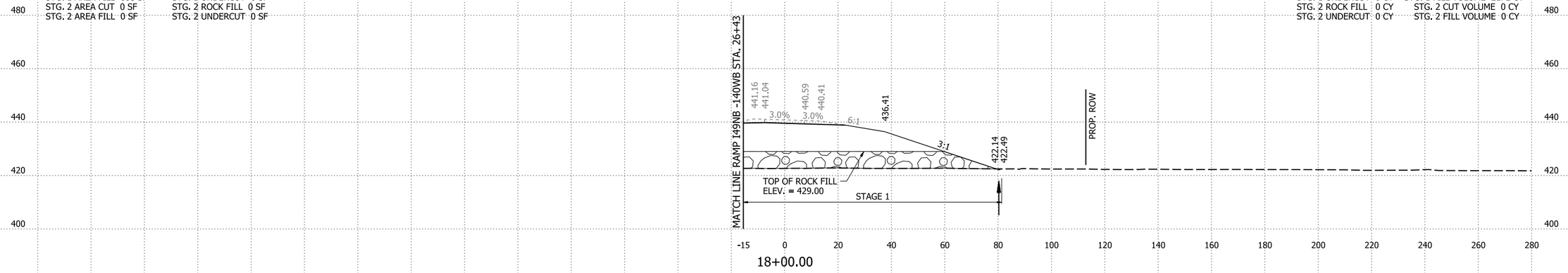
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	627	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 608 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 534 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 1927 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1 CY
STG. 1 FILL VOLUME 2172 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



18+00.00

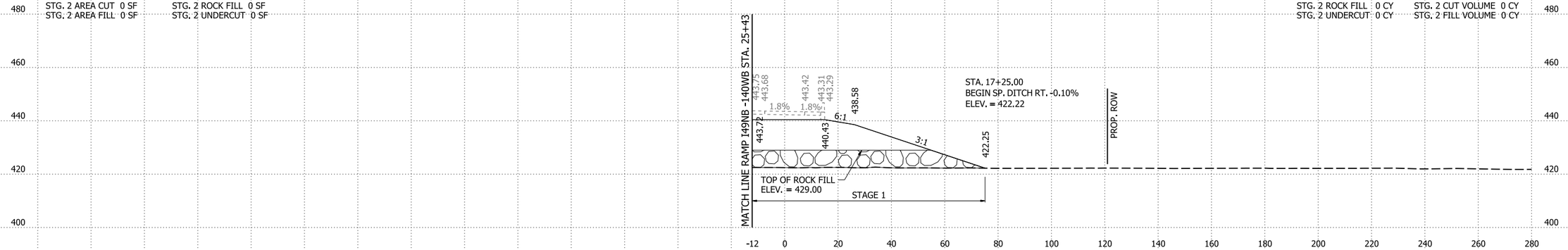
STA. 17+08.00 BEGIN GRADING ONLY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 565 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 507 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 103 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 100 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



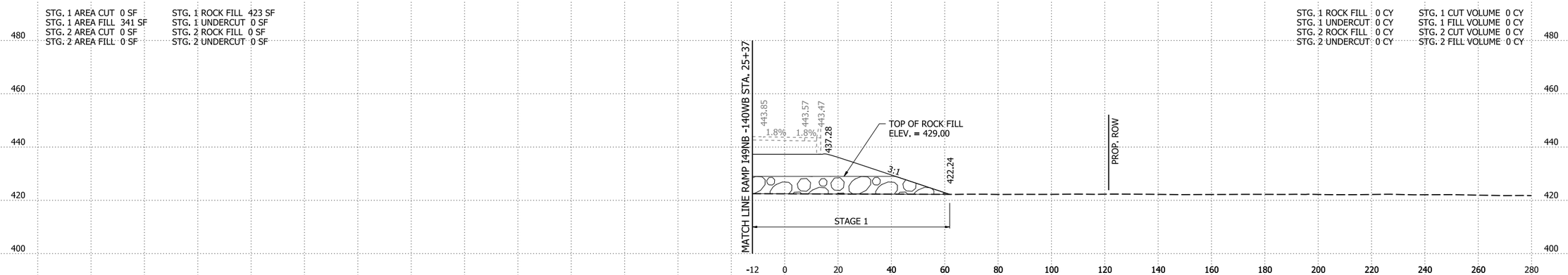
17+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 341 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 423 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



16+94.04
BEGIN RAMP I49NB-I40EB

RAMP I49NB-I40EB STA. 16+94.04 TO STA. 18+00

4/30/2026 8:15:27 AM
R040904_22_CX.dgn

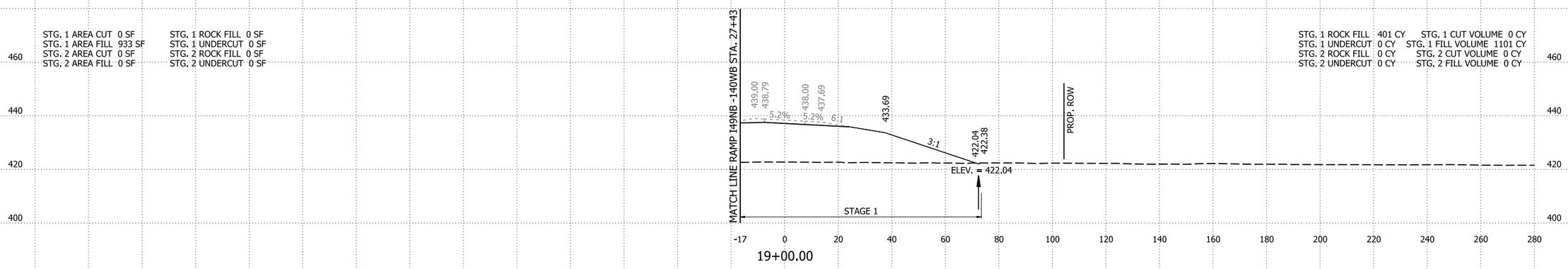
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	628	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 933 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 401 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 1101 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



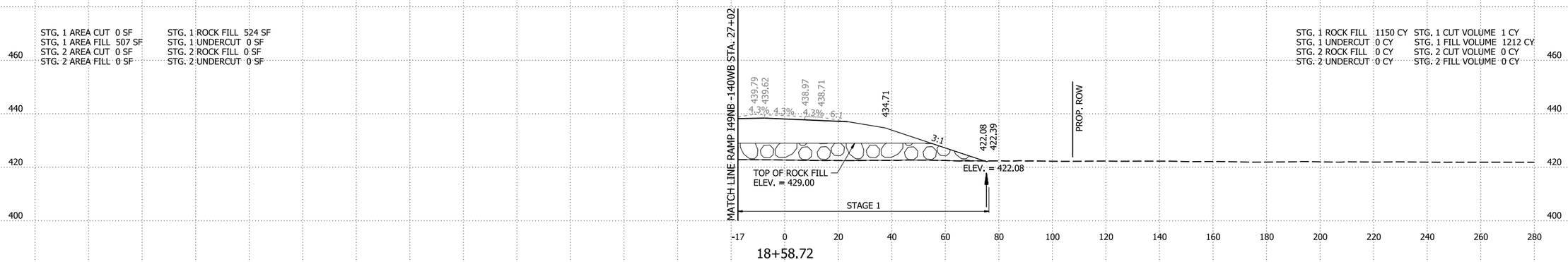
19+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 507 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 524 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 1150 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1 CY
STG. 1 FILL VOLUME 1212 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY

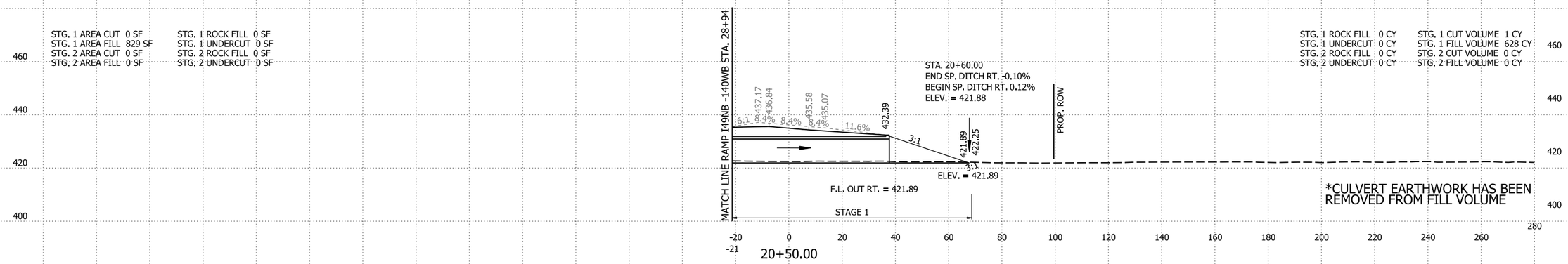


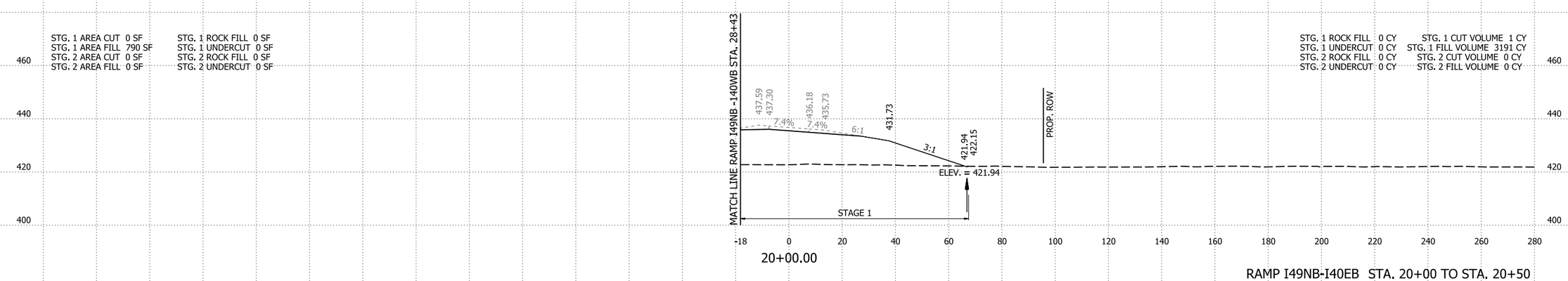
18+58.72

RAMP I49NB-I40EB STA. 15+58.72 TO STA. 19+00

4/30/2026 8:15:27 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	629	742
		CROSS SECTIONS				





RAMP I49NB-I40EB STA. 20+00 TO STA. 20+50

4/30/2026 8:15:28 AM
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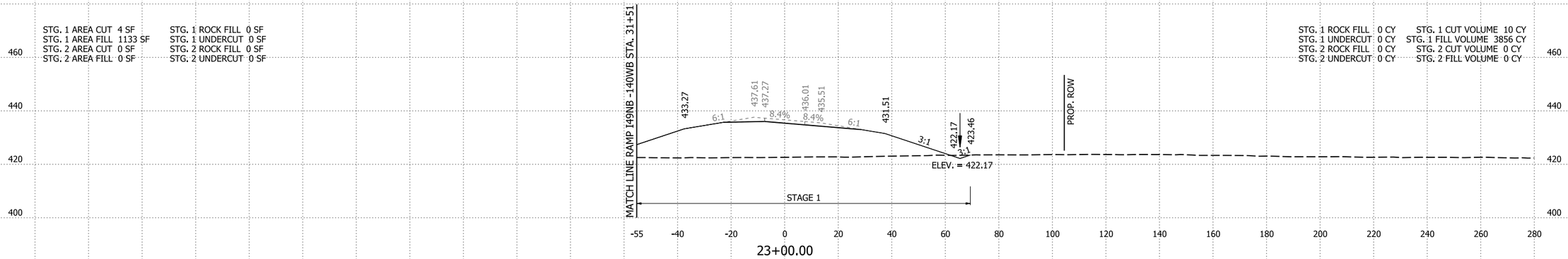
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	630	742
		CROSS SECTIONS				

STG. 1 AREA CUT 4 SF
STG. 1 AREA FILL 1133 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 10 CY
STG. 1 FILL VOLUME 3856 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY

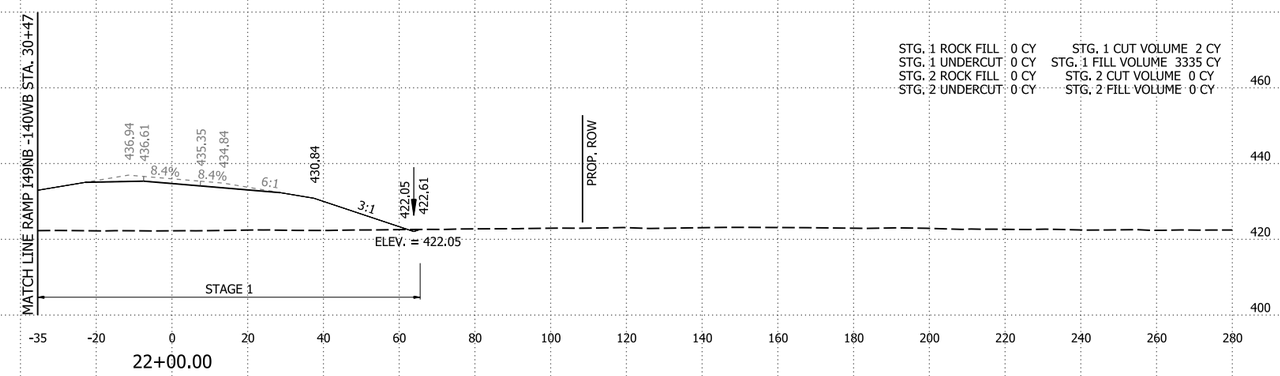


STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 949 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 3335 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY

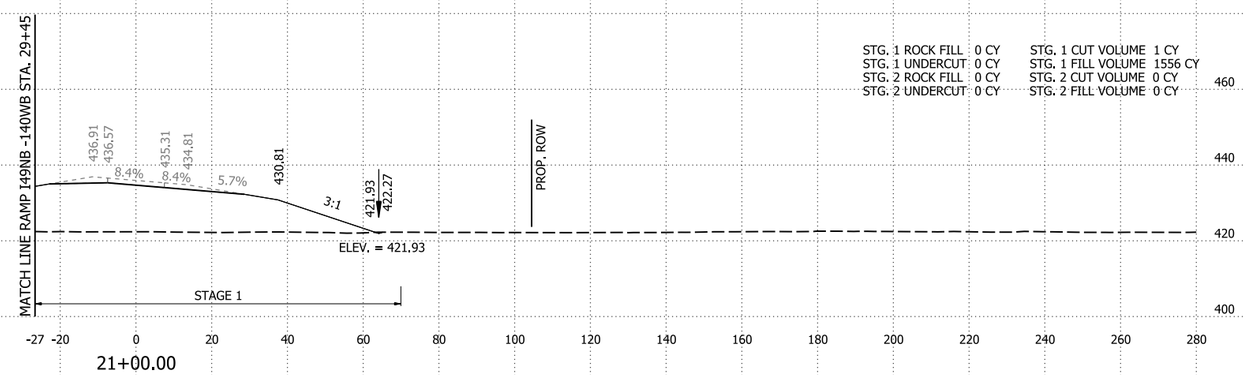


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 852 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1 CY
STG. 1 FILL VOLUME 1556 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



RAMP I49NB-I40EB STA. 21+00 TO STA. 23+00

4/30/2026 8:15:28 AM
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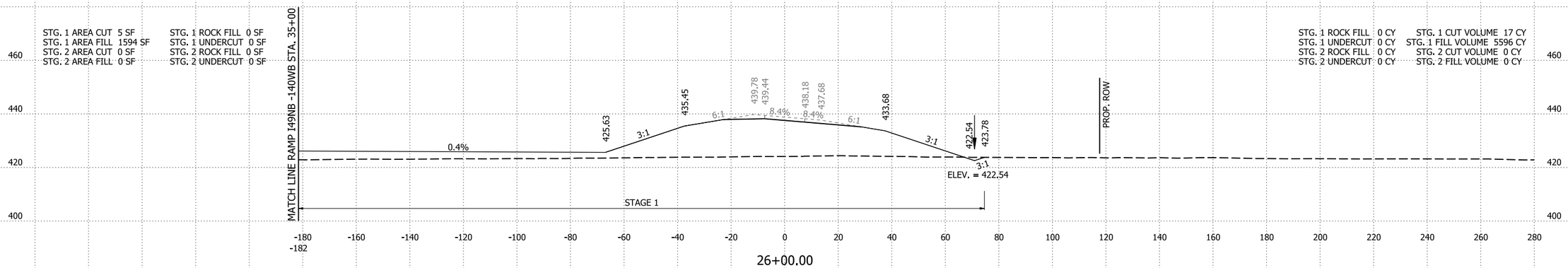
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	631	742
		CROSS SECTIONS				

STG. 1 AREA CUT 5 SF
STG. 1 AREA FILL 1594 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 17 CY
STG. 1 FILL VOLUME 5596 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



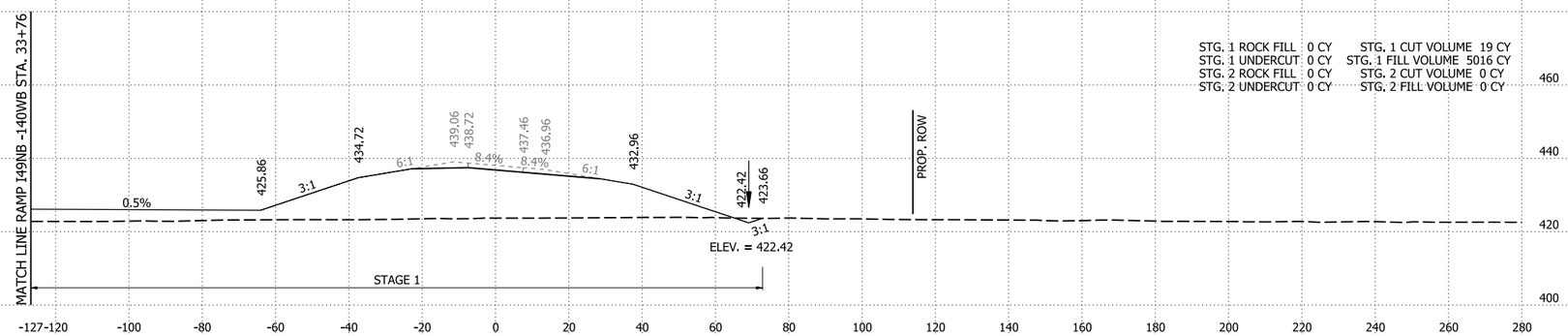
26+00.00

STG. 1 AREA CUT 5 SF
STG. 1 AREA FILL 1428 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 19 CY
STG. 1 FILL VOLUME 5016 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



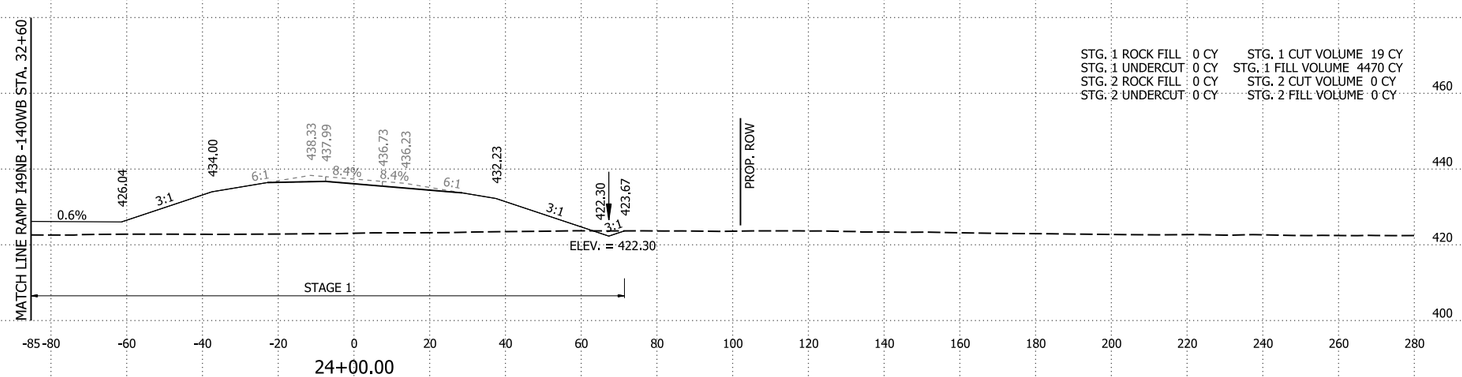
25+00.00

STG. 1 AREA CUT 6 SF
STG. 1 AREA FILL 1281 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 19 CY
STG. 1 FILL VOLUME 4470 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



24+00.00

RAMP I49NB-I40EB STA. 24+00 TO STA. 26+00

4/30/2026 8:15:28 AM
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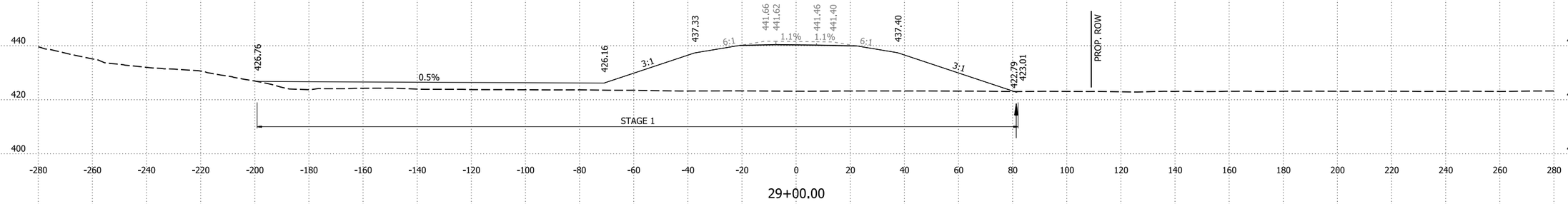
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	632	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 2122 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 3 CY
STG. 1 FILL VOLUME 7538 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



29+00.00

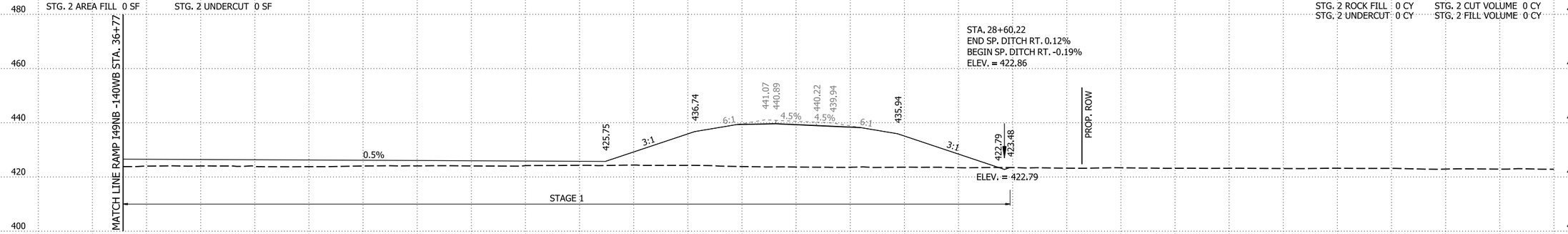
STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 1948 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 36 CY
STG. 1 FILL VOLUME 6545 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY

STA. 28+60.22
END SP. DITCH RT. 0.12%
BEGIN SP. DITCH RT. -0.19%
ELEV. = 422.86



28+00.00

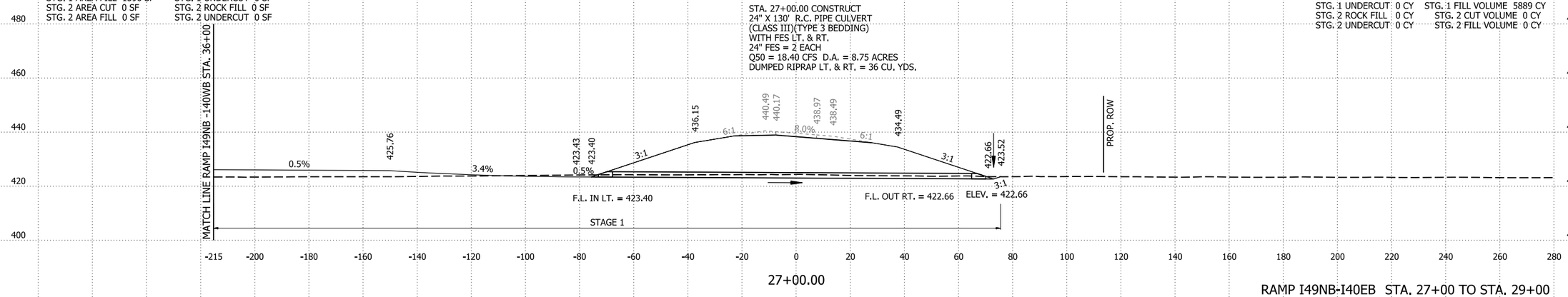
STG. 1 AREA CUT 18 SF
STG. 1 AREA FILL 1596 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STA. 27+00.00 CONSTRUCT
24" X 130' R.C. PIPE CULVERT
(CLASS III)(TYPE 3 BEDDING)
WITH FES LT. & RT.
24" FES = 2 EACH
Q50 = 18.40 CFS D.A. = 8.75 ACRES
DUMPED RIPRAP LT. & RT. = 36 CU. YDS.

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 41 CY
STG. 1 FILL VOLUME 5889 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



27+00.00

RAMP I49NB-I40EB STA. 27+00 TO STA. 29+00

4/30/2026 8:15:29 AM
R040904_22_CX.dgn

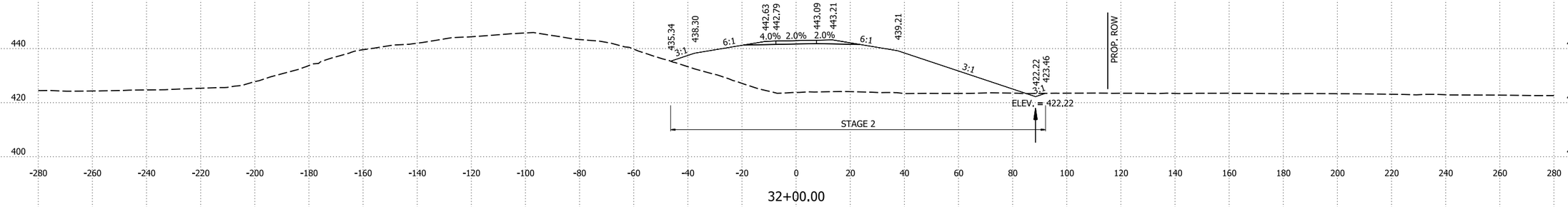
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	633	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 4 SF
STG. 2 AREA FILL 1554 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 8 CY
STG. 1 FILL VOLUME 3630 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



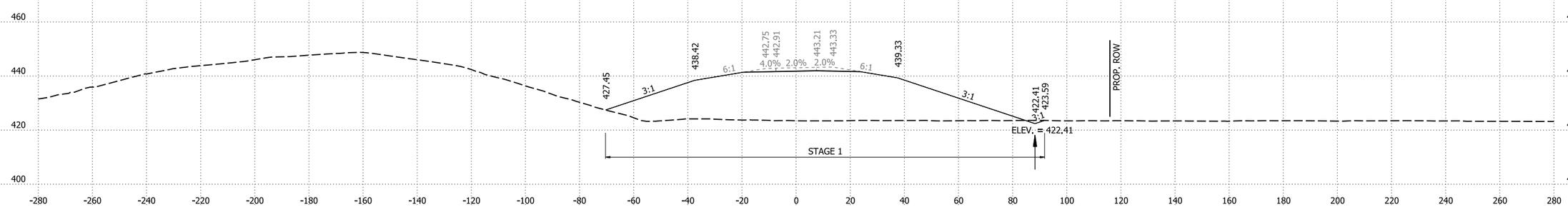
32+00.00

STG. 1 AREA CUT 4 SF
STG. 1 AREA FILL 1960 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 10 CY
STG. 1 FILL VOLUME 7574 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



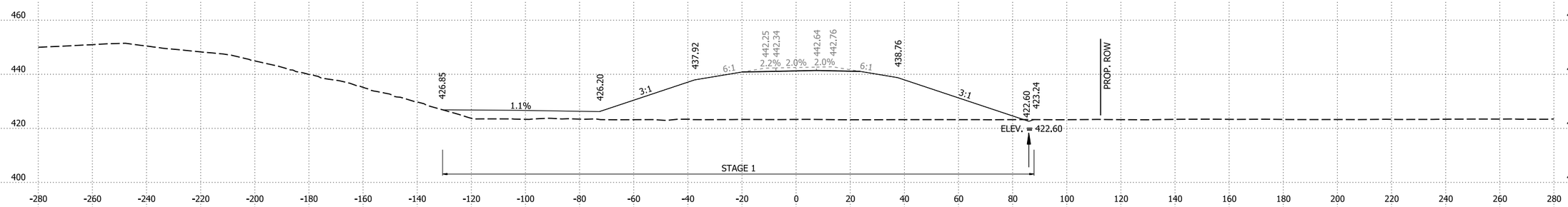
31+00.00

STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 2129 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF

STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 3 CY
STG. 1 FILL VOLUME 7873 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY



30+00.00

RAMP I49NB-I40EB STA. 30+00 TO STA. 32+00

4/30/2026 8:15:29 AM
R040904_22_CX.dgn

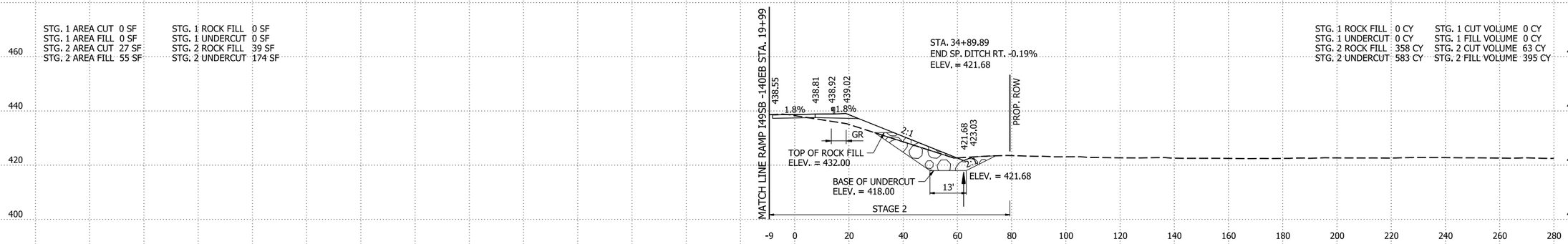
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	634	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 27 SF
STG. 2 AREA FILL 55 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 39 SF
STG. 2 UNDERCUT 174 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 358 CY
STG. 2 UNDERCUT 583 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 63 CY
STG. 2 FILL VOLUME 395 CY



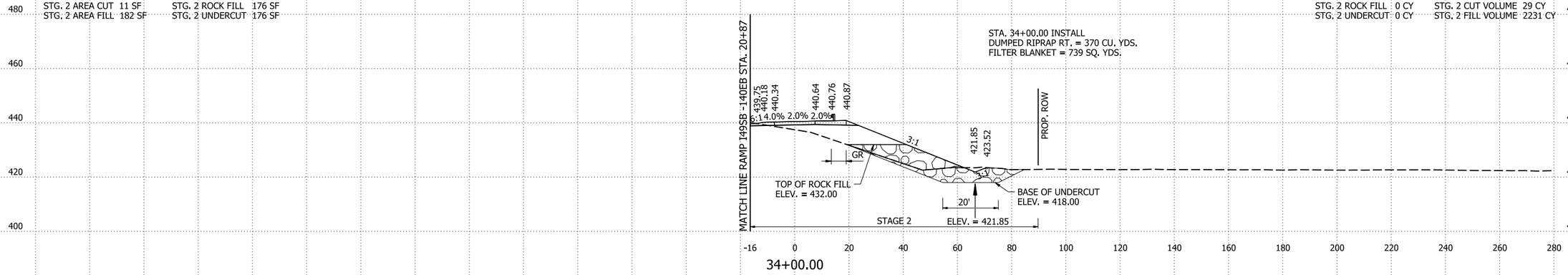
34+89.89
END RAMP I49NB-I40EB

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 11 SF
STG. 2 AREA FILL 182 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 176 SF
STG. 2 UNDERCUT 176 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 29 CY
STG. 2 FILL VOLUME 2231 CY



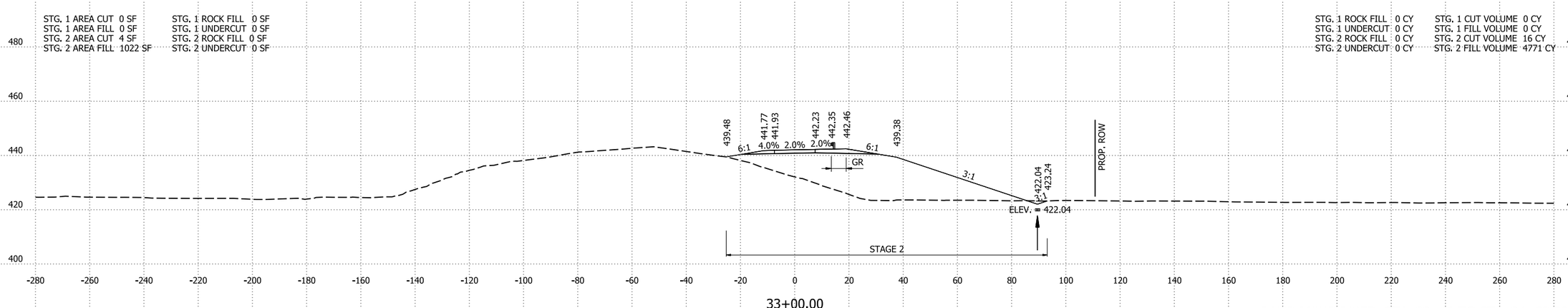
34+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 4 SF
STG. 2 AREA FILL 1022 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 16 CY
STG. 2 FILL VOLUME 4771 CY

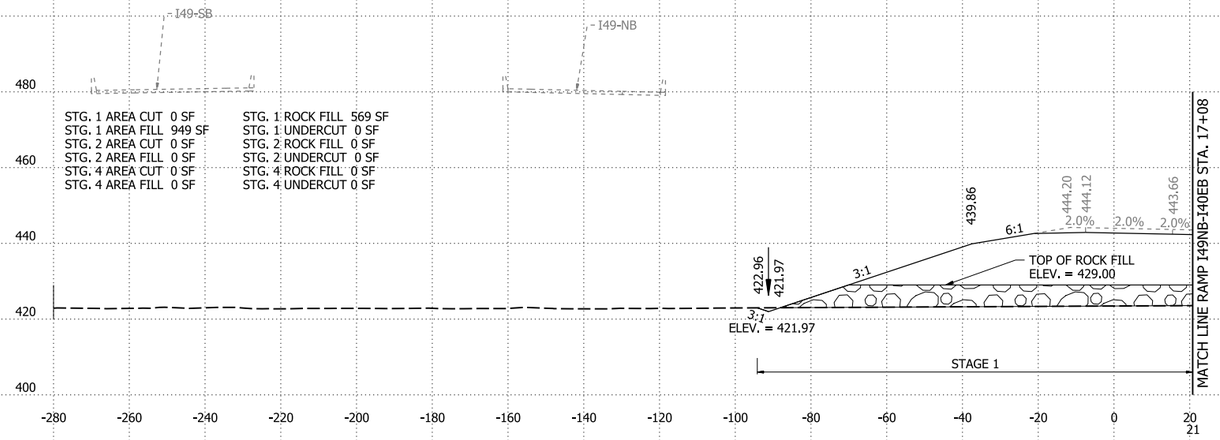


33+00.00

RAMP I49NB-I40EB STA. 33+00 TO STA. 34+89.89

9/3/2026 2:24:17 PM
R040904_22_CX.dgn

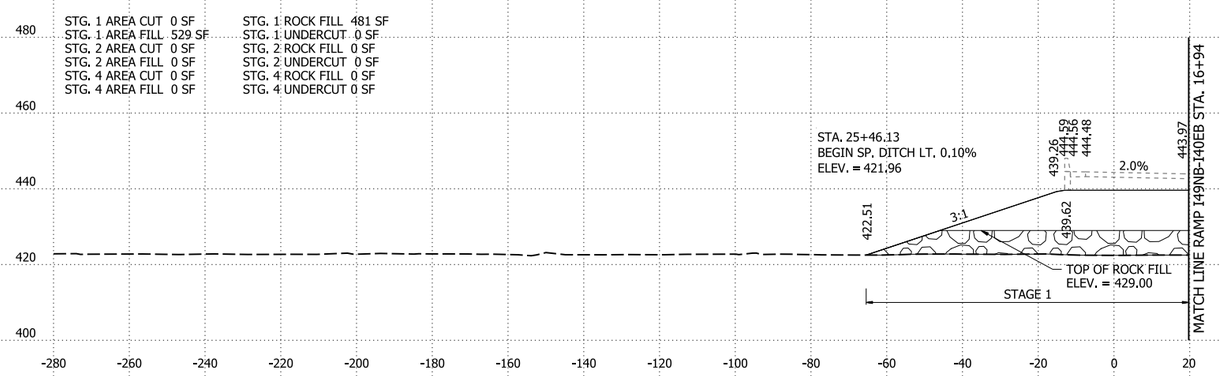
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	635	742
		CROSS SECTIONS				



STG. 1 ROCK FILL 298 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 419 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY

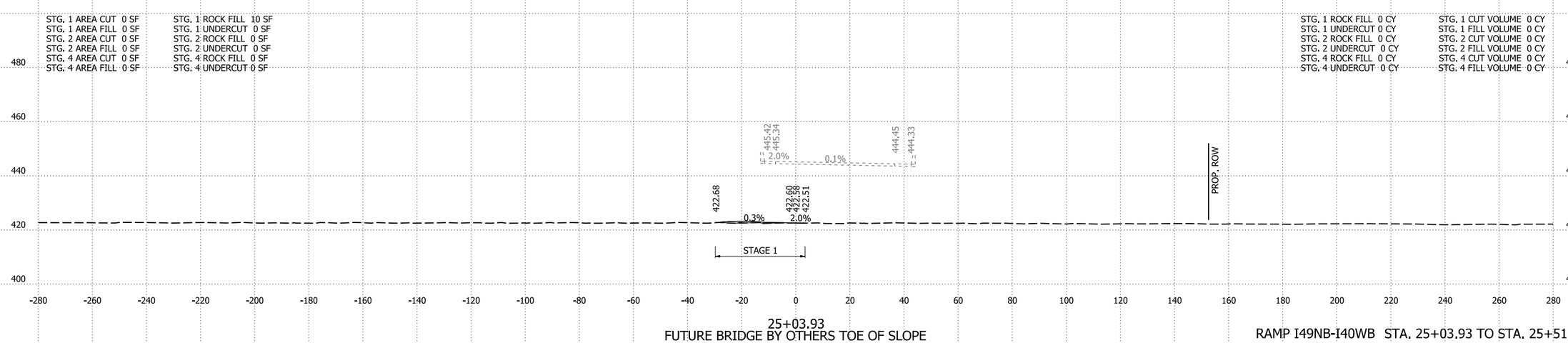
25+51.63
BEGIN GRADING ONLY



STG. 1 ROCK FILL 294 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 317 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY

25+36.30
END FUTURE BRIDGE BY OTHERS



STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY

25+03.93
FUTURE BRIDGE BY OTHERS TOE OF SLOPE

RAMP I49NB-I40WB STA. 25+03.93 TO STA. 25+51.63

4/30/2026 8:15:30 AM
R040904_22_CX.dgn

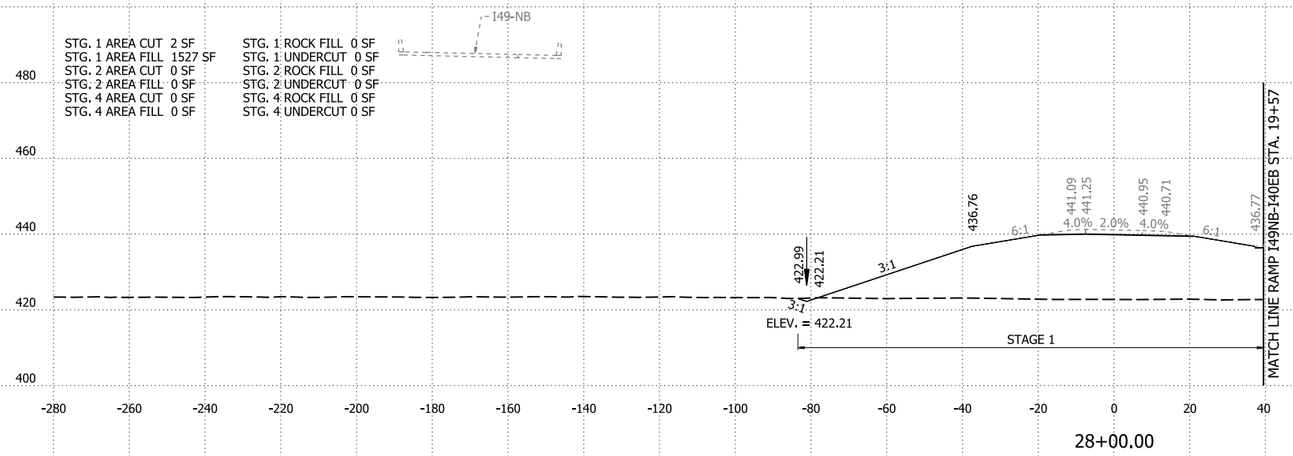
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	636	742
		CROSS SECTIONS				

STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 1527 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 1128 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 12 CY
STG. 1 FILL VOLUME 4344 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



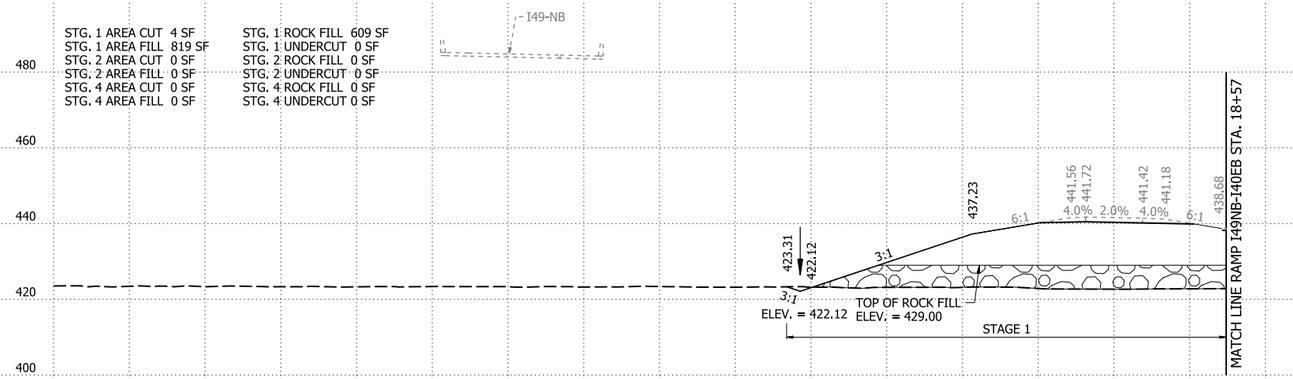
28+00.00

STG. 1 AREA CUT 4 SF
STG. 1 AREA FILL 819 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 609 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 2286 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 12 CY
STG. 1 FILL VOLUME 3184 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



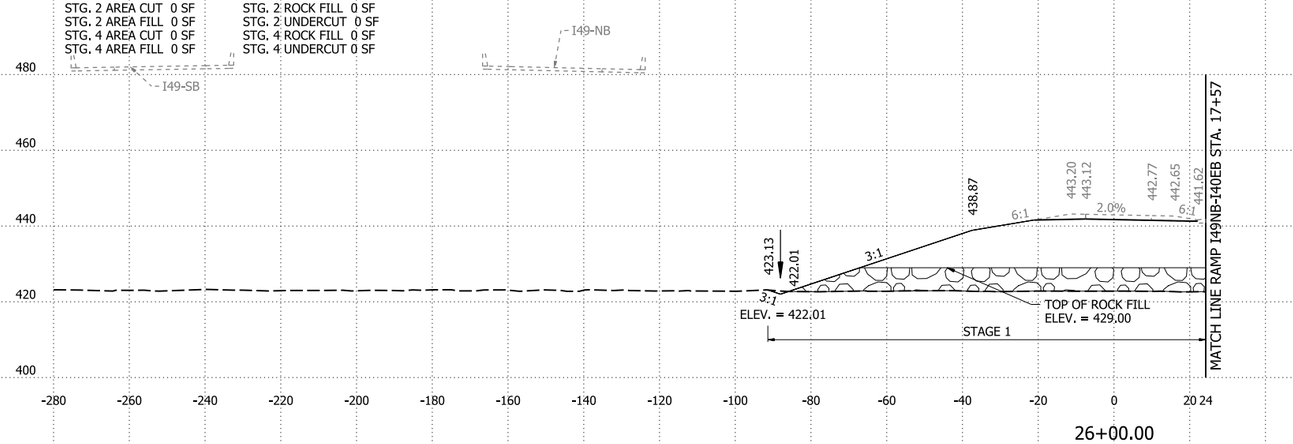
27+00.00

STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 900 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 625 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 1070 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 1656 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



26+00.00

RAMP I49NB-I40WB STA. 26+00 TO STA. 28+00

4/30/2026 8:15:30 AM
R040904_22_CX.dgn

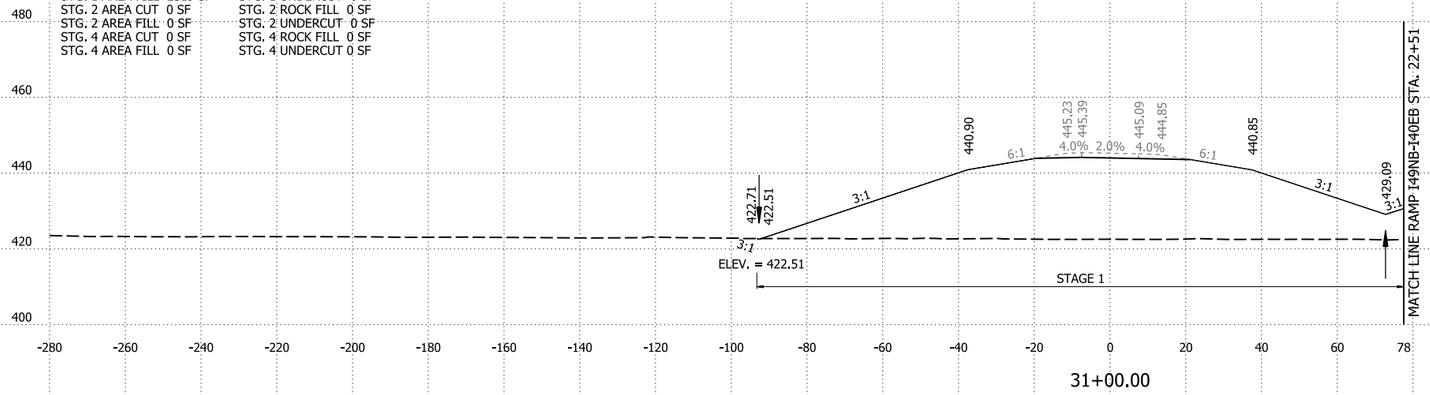
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	637	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 2519 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1 CY
STG. 1 FILL VOLUME 8466 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



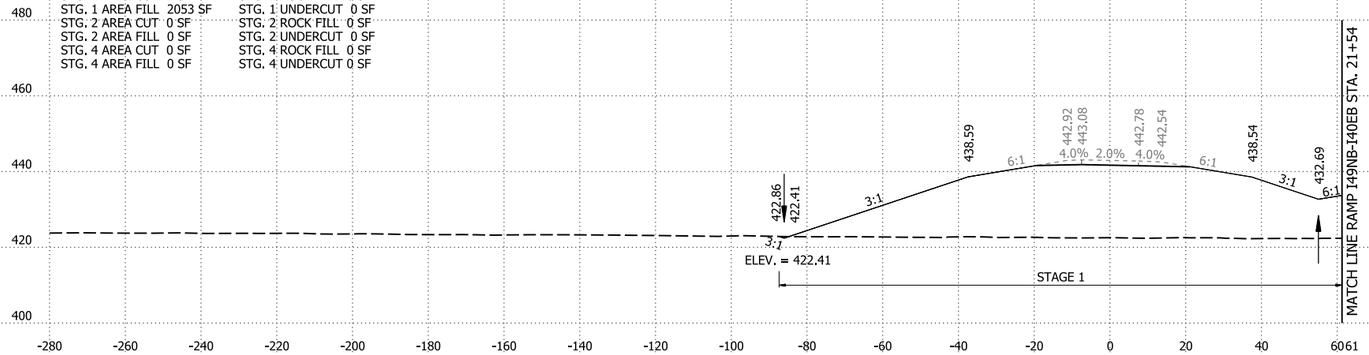
31+00.00

STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 2053 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 6 CY
STG. 1 FILL VOLUME 6960 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



30+00.00

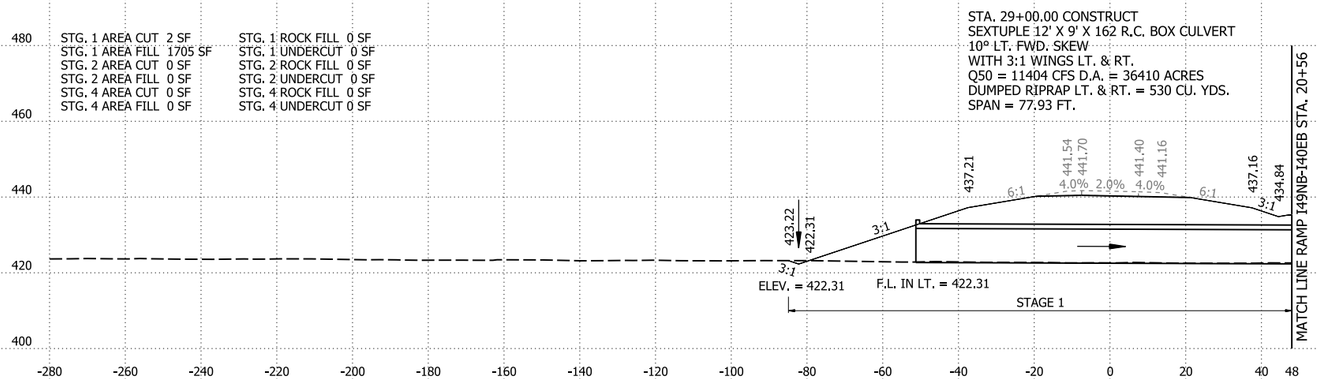
STA. 29+00.00 CONSTRUCT
SEXTUPLE 12' X 9' X 162 R.C. BOX CULVERT
10° LT. FWD. SKEW
WITH 3:1 WINGS LT. & RT.
Q50 = 11404 CFS D.A. = 36410 ACRES
DUMPED RIPRAP LT. & RT. = 530 CU. YDS.
SPAN = 77.93 FT.

STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 1705 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 9 CY
STG. 1 FILL VOLUME 3071 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



29+00.00

*CULVERT EARTHWORK HAS BEEN
REMOVED FROM FILL VOLUME

RAMP I49NB-I40WB STA. 29+00 TO STA. 31+00

4/30/2026 8:15:31 AM
R040904_22_CX.dgn

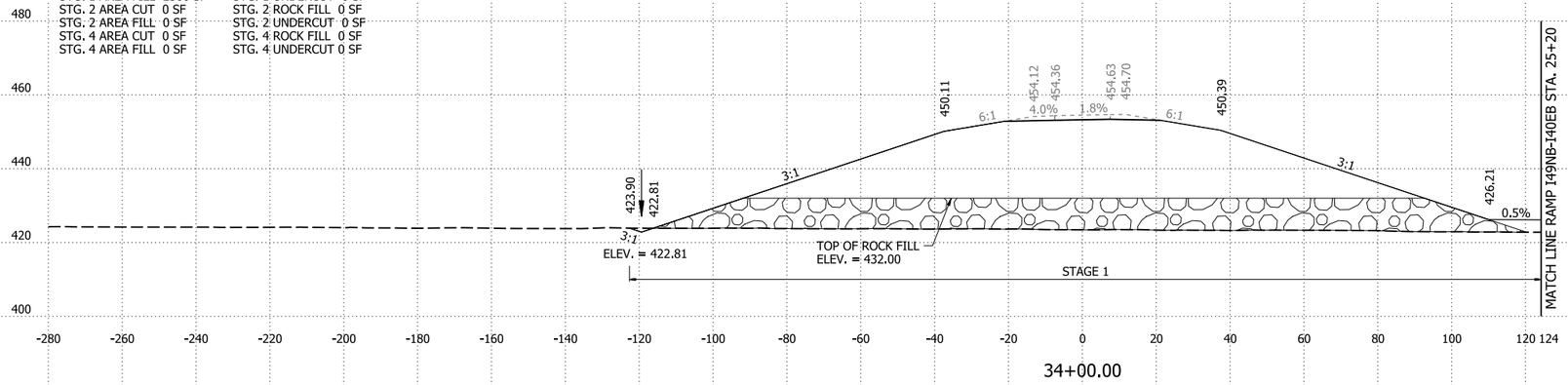
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	638	742
		CROSS SECTIONS				

STG. 1 AREA CUT 3 SF
STG. 1 AREA FILL 2566 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 1793 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 6128 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 10 CY
STG. 1 FILL VOLUME 8716 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



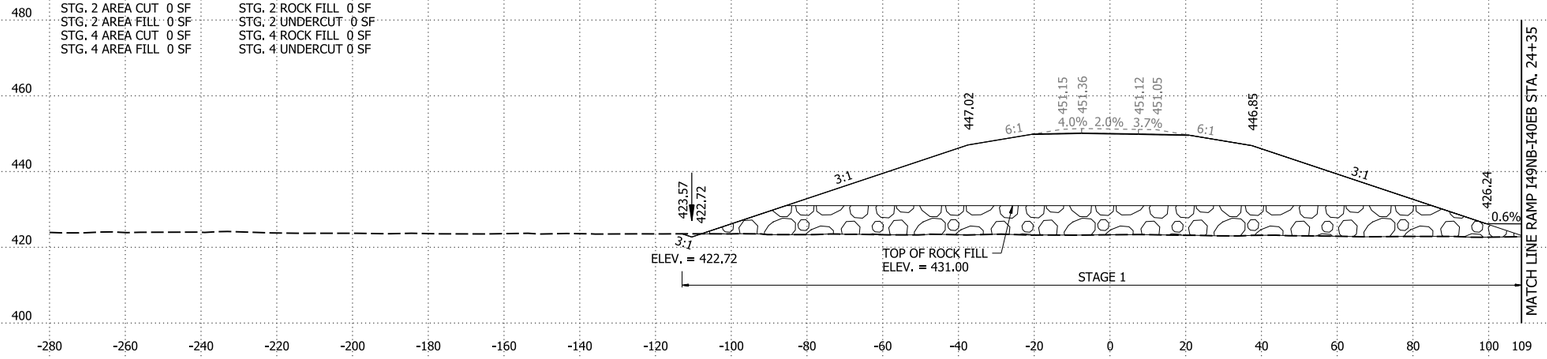
34+00.00

STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 2141 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 1516 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 5128 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 6 CY
STG. 1 FILL VOLUME 7276 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



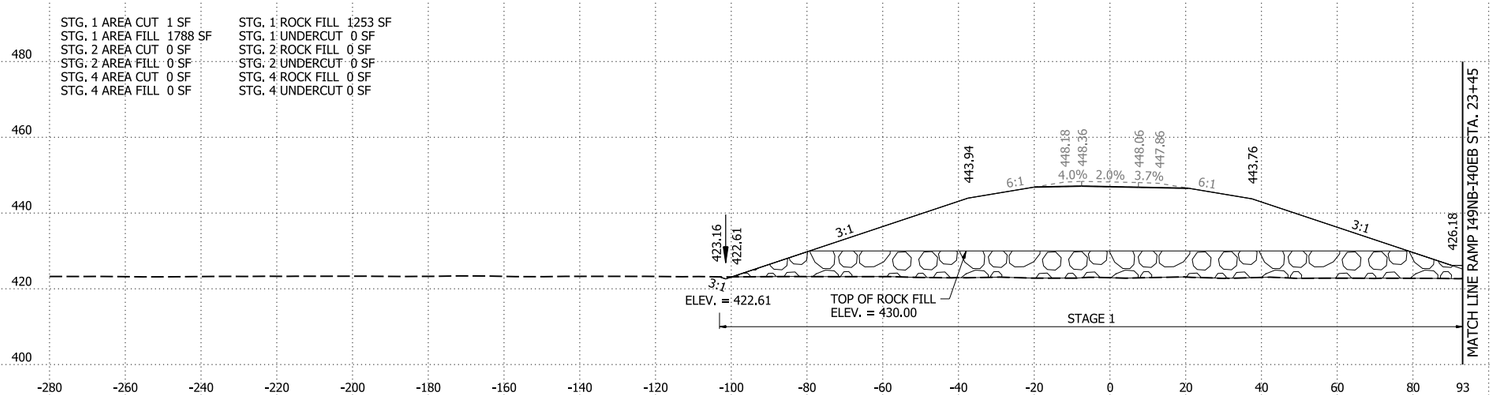
33+00.00

STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 1788 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 1253 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 2320 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 7975 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



32+00.00

RAMP I49NB-I40WB STA. 32+00 TO STA. 34+00

4/30/2026 8:15:31 AM
R040904_22_CX.dgn

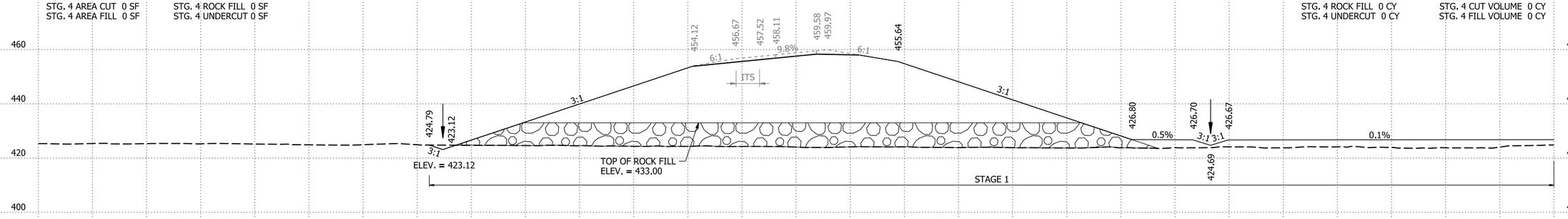
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	639	742
		CROSS SECTIONS				

STG. 1 AREA CUT 8 SF
STG. 1 AREA FILL 3618 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 2054 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 7733 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 24 CY
STG. 1 FILL VOLUME 12868 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



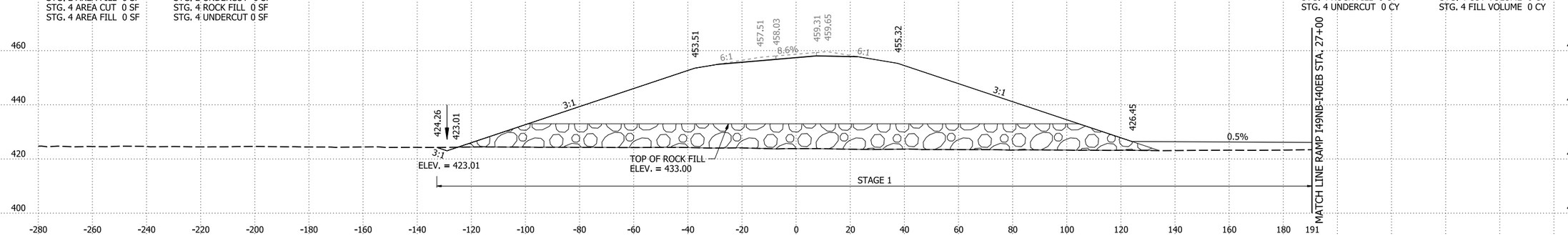
37+00.00

STG. 1 AREA CUT 5 SF
STG. 1 AREA FILL 3331 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 2122 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 7752 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 18 CY
STG. 1 FILL VOLUME 11545 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



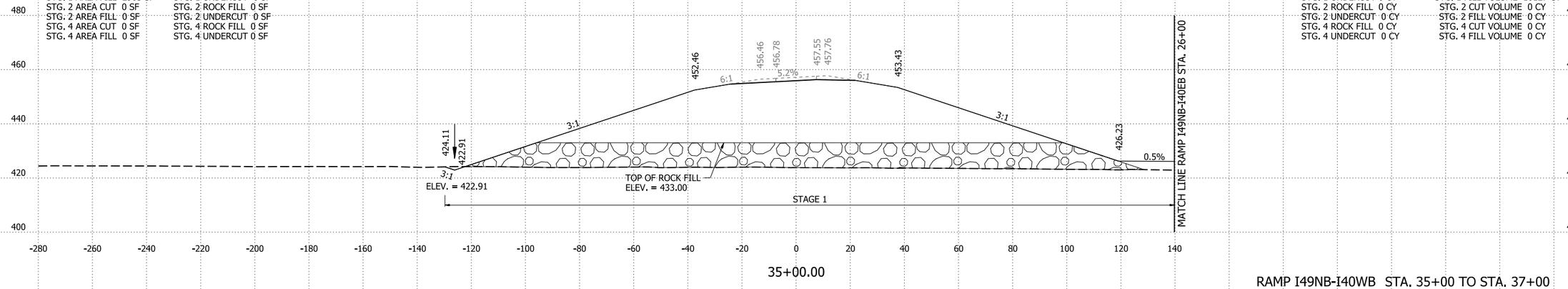
36+00.00

STG. 1 AREA CUT 5 SF
STG. 1 AREA FILL 2903 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 2065 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 7143 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 15 CY
STG. 1 FILL VOLUME 10127 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



35+00.00

RAMP I49NB-I40WB STA. 35+00 TO STA. 37+00

4/30/2026 8:15:31 AM
R040904_22_CX.dgn

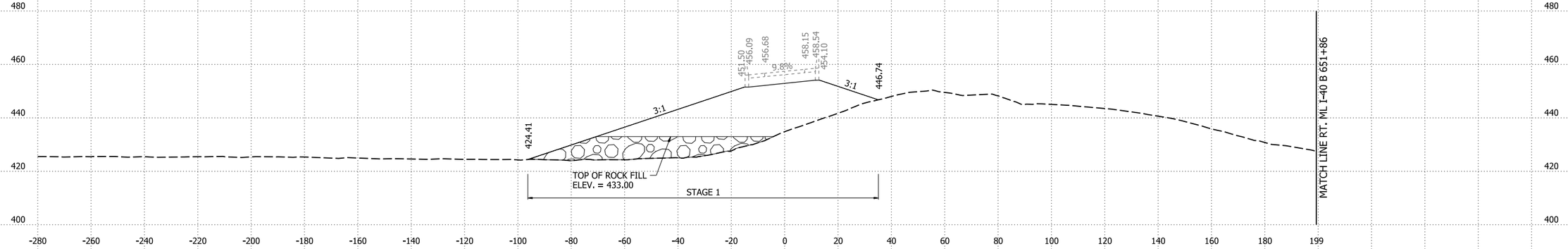
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	640	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 1170 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 553 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 2193 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 6 CY
STG. 1 FILL VOLUME 5587 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



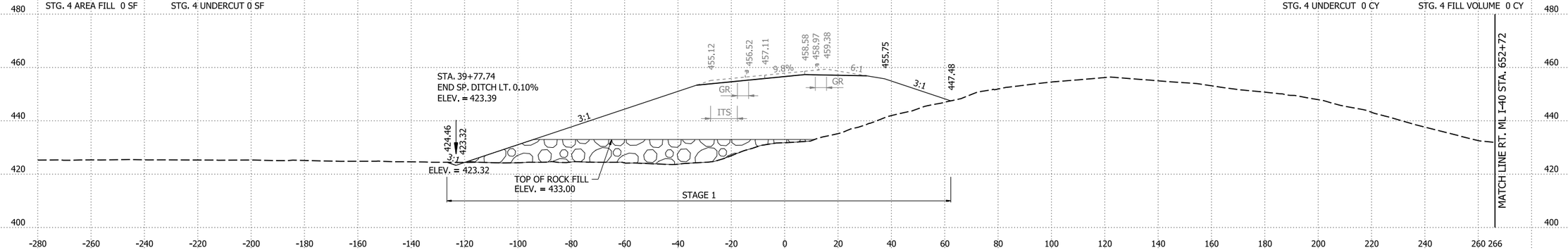
39+86.35
BEGIN FUTURE BRIDGE BY OTHERS

STG. 1 AREA CUT 4 SF
STG. 1 AREA FILL 2323 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 818 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 4549 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 26Y
STG. 1 FILL VOLUME 10170 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



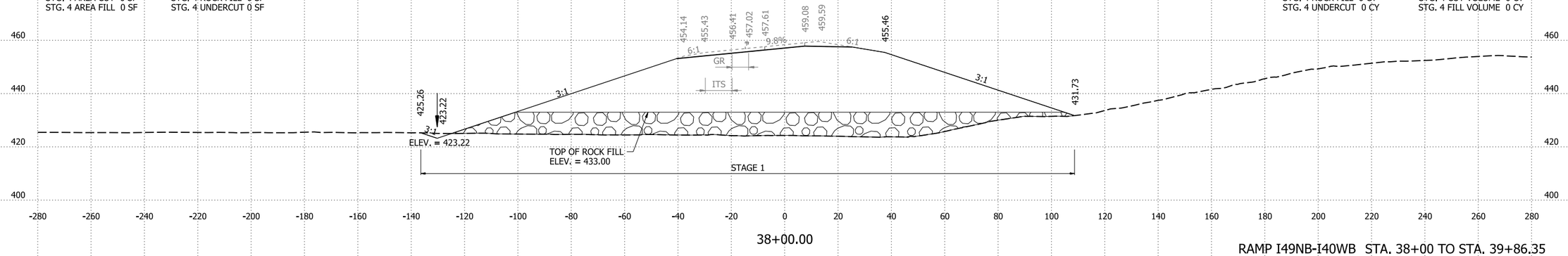
39+00.00

STG. 1 AREA CUT 11 SF
STG. 1 AREA FILL 3169 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 1639 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 6838 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 35 CY
STG. 1 FILL VOLUME 12567 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



38+00.00

RAMP I49NB-I40WB STA. 38+00 TO STA. 39+86.35

4/30/2026 8:15:32 AM
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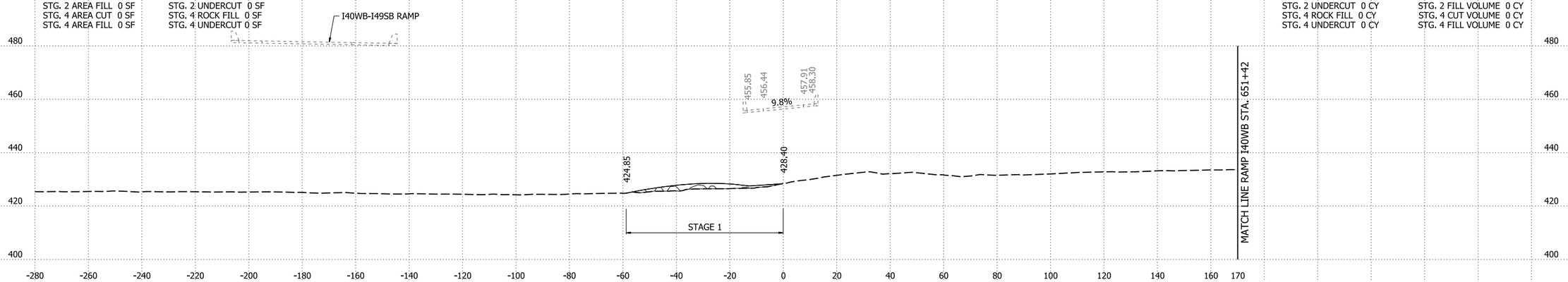
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	641	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 78 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 379 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 483 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



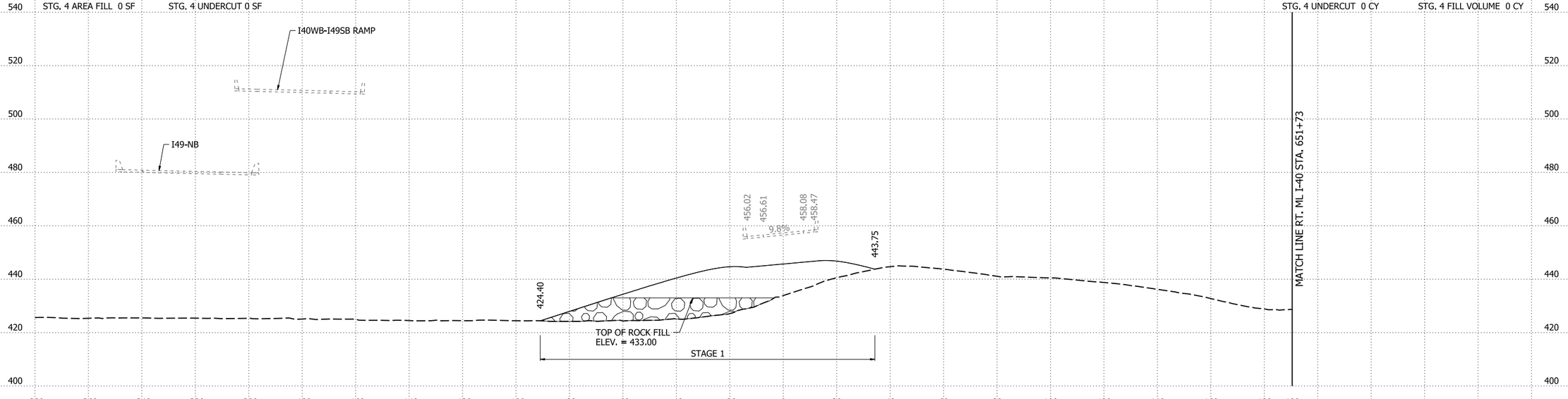
40+34.37
FUTURE BRIDGE BY OTHERS TOE OF SLOPE

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 759 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 517 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 271 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 488 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



40+00.00

RAMP I49NB-I40WB STA. 40+00 TO STA. 40+58

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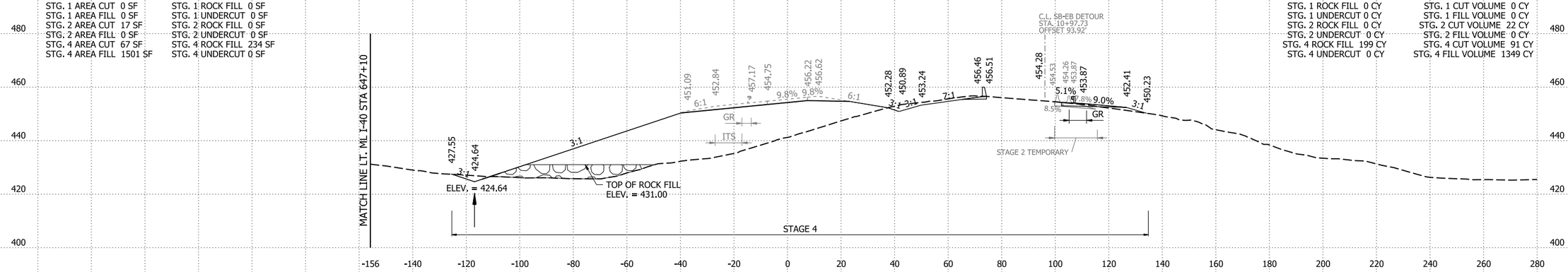
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	642	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 17 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 67 SF
STG. 4 AREA FILL 1501 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 234 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 199 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 22 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 91 CY
STG. 4 FILL VOLUME 1349 CY



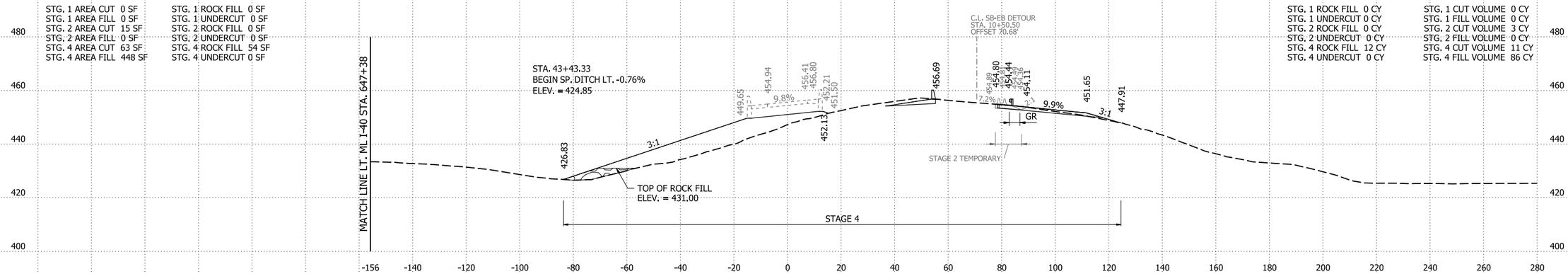
43+71.04

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 15 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 63 SF
STG. 4 AREA FILL 448 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 54 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 12 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 3 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 11 CY
STG. 4 FILL VOLUME 86 CY



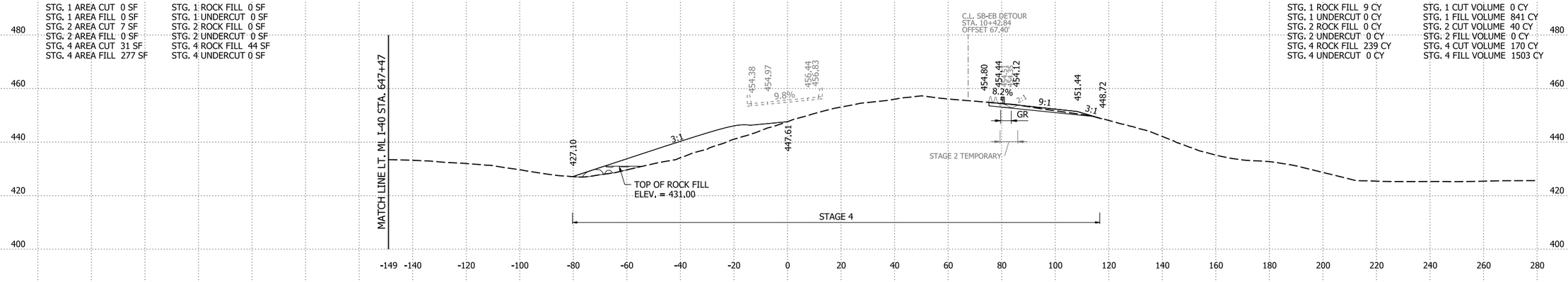
43+33.68
BEGIN FUTURE BRIDGE BY OTHERS

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 7 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 31 SF
STG. 4 AREA FILL 277 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 44 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 9 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 239 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 841 CY
STG. 2 CUT VOLUME 40 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 170 CY
STG. 4 FILL VOLUME 1503 CY



43+27.30
FUTURE BRIDGE BY OTHERS TOE OF SLOPE

RAMP I49NB-I40WB STA. 43+27.30 TO STA. 43+71.04

4/30/2026 8:15:33 AM
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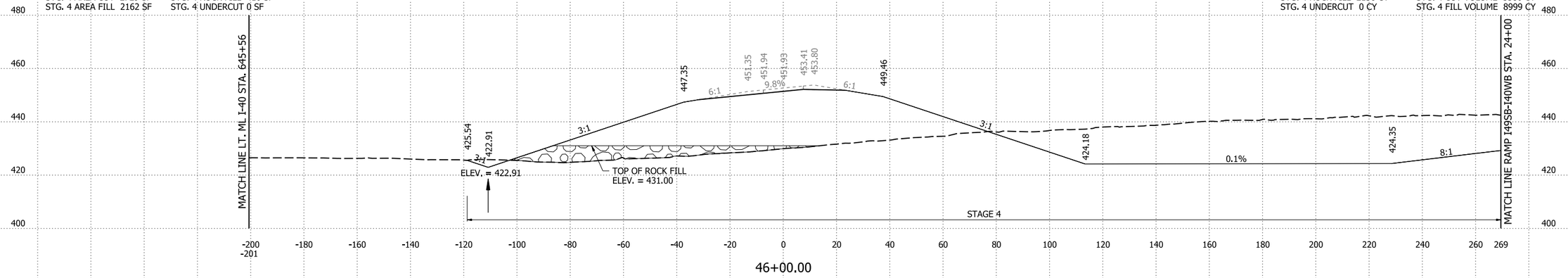
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	643	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 2729 SF
STG. 4 AREA FILL 2162 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 410 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 2136 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 5380 CY
STG. 4 FILL VOLUME 8999 CY



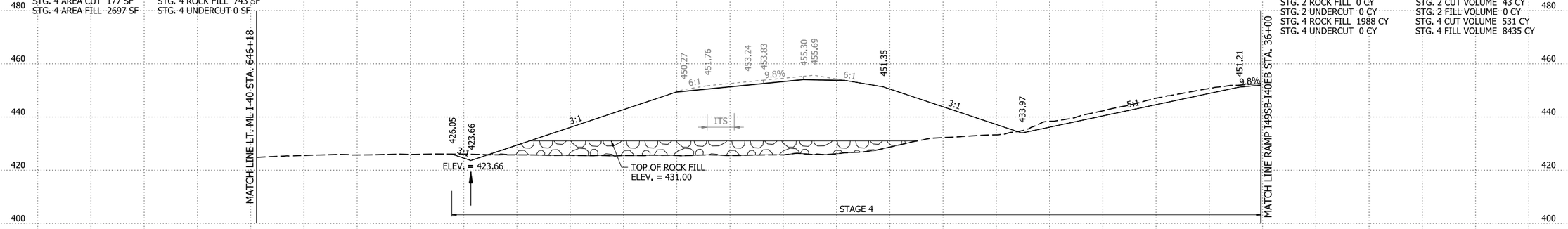
46+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 177 SF
STG. 4 AREA FILL 2697 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 743 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 1988 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 43 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 531 CY
STG. 4 FILL VOLUME 8435 CY



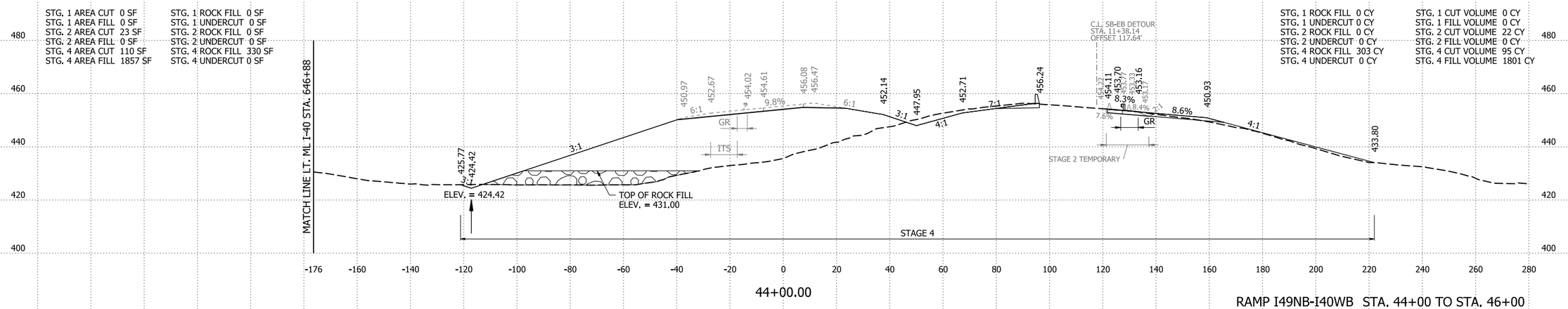
45+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 23 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 110 SF
STG. 4 AREA FILL 1857 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 330 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 303 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 22 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 95 CY
STG. 4 FILL VOLUME 1801 CY



44+00.00

RAMP I49NB-I40WB STA. 44+00 TO STA. 46+00

4/30/2026 8:15:33 AM
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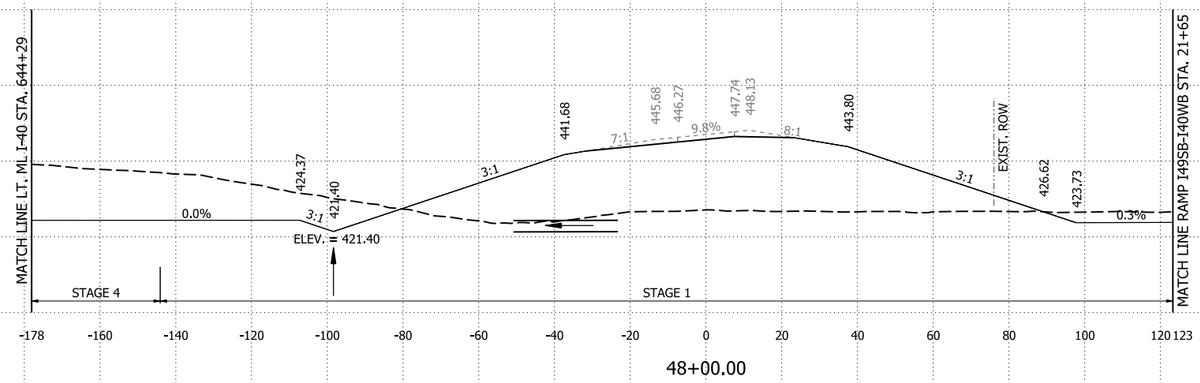
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	644	742
		CROSS SECTIONS				

STG. 1 AREA CUT 612 SF
STG. 1 AREA FILL 2241 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 462 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 795 CY
STG. 1 FILL VOLUME 4098 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 2529 CY
STG. 4 FILL VOLUME 0 CY



48+00.00

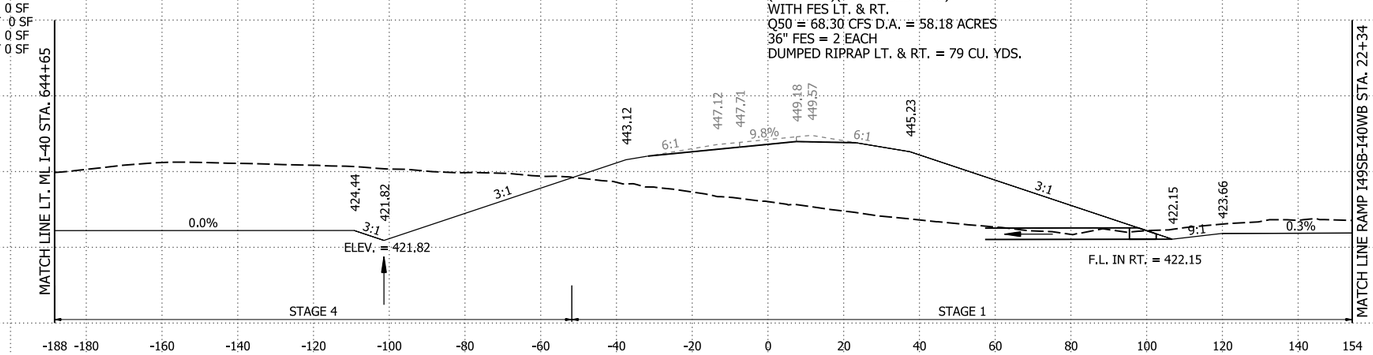
STG. 1 AREA CUT 156 SF
STG. 1 AREA FILL 1719 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 1981 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STA. 47+81.90 CONSTRUCT
36" X 198' R.C. PIPE CULVERT
(CLASS III)(TYPE 3 BEDDING)
WITH FES LT. & RT.
Q50 = 68.30 CFS D.A. = 58.18 ACRES
36" FES = 2 EACH
DUMPED RIPRAP LT. & RT. = 79 CU. YDS.

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 744 CY
STG. 1 FILL VOLUME 1404 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 3590 CY
STG. 4 FILL VOLUME 358 CY



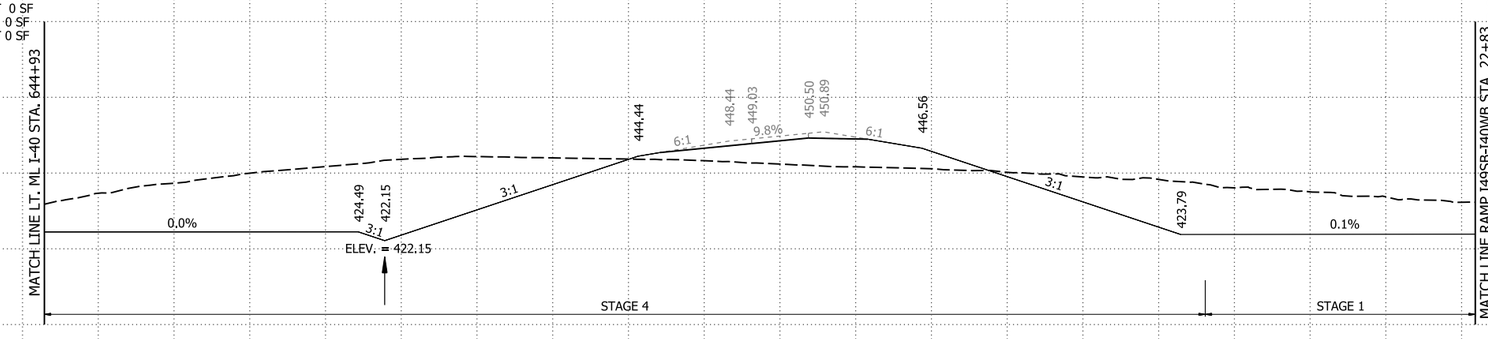
47+44.12

STG. 1 AREA CUT 754 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 2413 SF
STG. 4 AREA FILL 438 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 760 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 9521 CY
STG. 4 FILL VOLUME 4815 CY



47+00.00

RAMP I49NB-I40WB STA. 47+00 TO STA. 48+00

4/30/2026 8:15:33 AM
R040904_22_CX.dgn

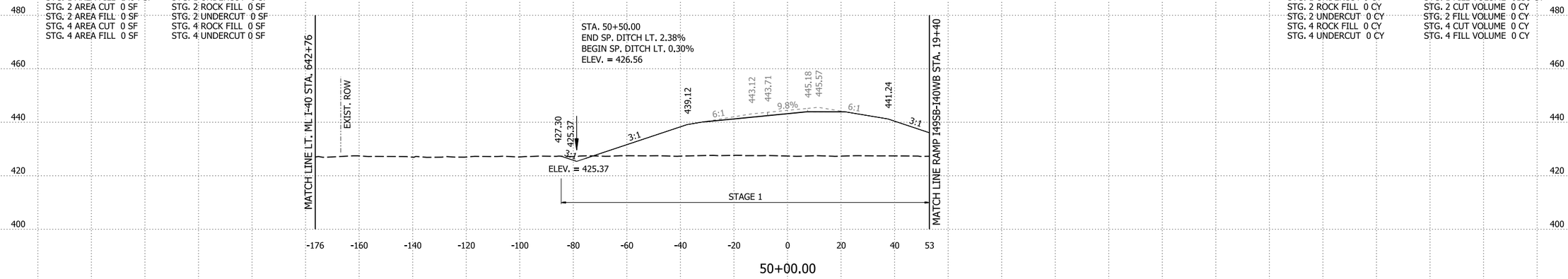
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	645	742
		CROSS SECTIONS				

STG. 1 AREA CUT 11 SF
STG. 1 AREA FILL 1494 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 100 CY
STG. 1 FILL VOLUME 6138 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



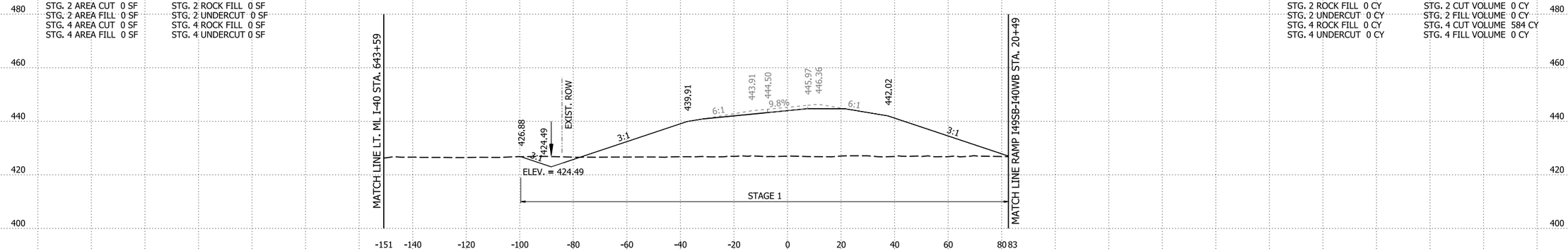
50+00.00

STG. 1 AREA CUT 43 SF
STG. 1 AREA FILL 1821 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 207
STG. 1 FILL VOLUME 5437
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 584 CY
STG. 4 FILL VOLUME 0 CY



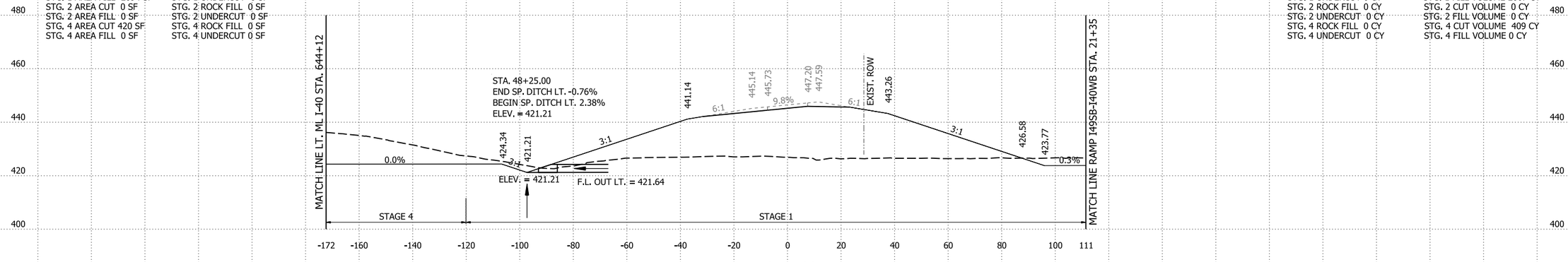
49+00.00

STG. 1 AREA CUT 106 SF
STG. 1 AREA FILL 2094 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 420 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 333 CY
STG. 1 FILL VOLUME 2007 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 409 CY
STG. 4 FILL VOLUME 0 CY



48+25.00

RAMP I49NB-I40WB STA. 48+25 TO STA. 50+00

4/30/2026 8:15:34 AM
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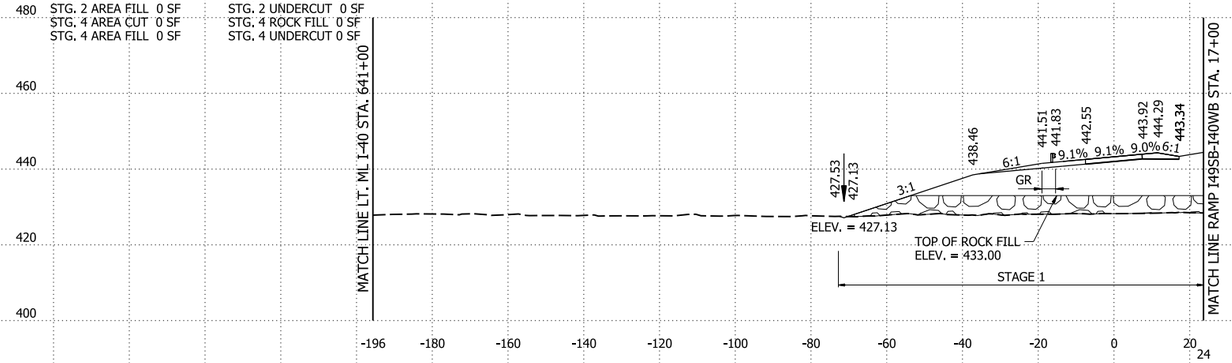
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	646	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 551 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 416 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 918 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



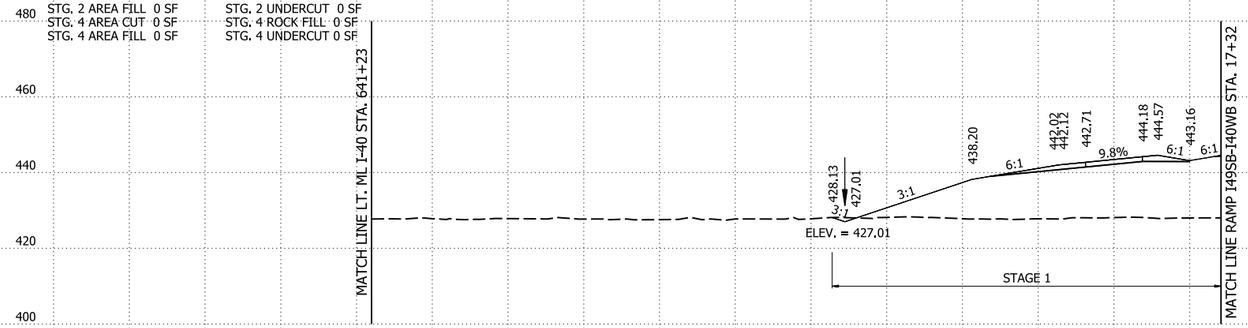
52+31.00

STG. 1 AREA CUT 4 SF
STG. 1 AREA FILL 1048 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 17 CY
STG. 1 FILL VOLUME 4093 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



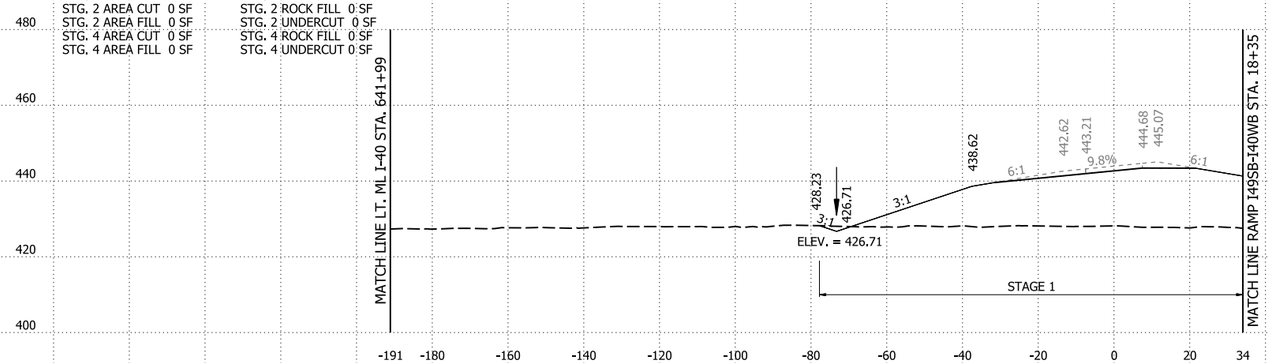
52+00.00

STG. 1 AREA CUT 6 SF
STG. 1 AREA FILL 1163 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 16 CY
STG. 1 FILL VOLUME 4919 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



51+00.00

RAMP I49NB-I40WB STA. 51+00 TO STA. 52+31

4/30/2026 8:15:34 AM
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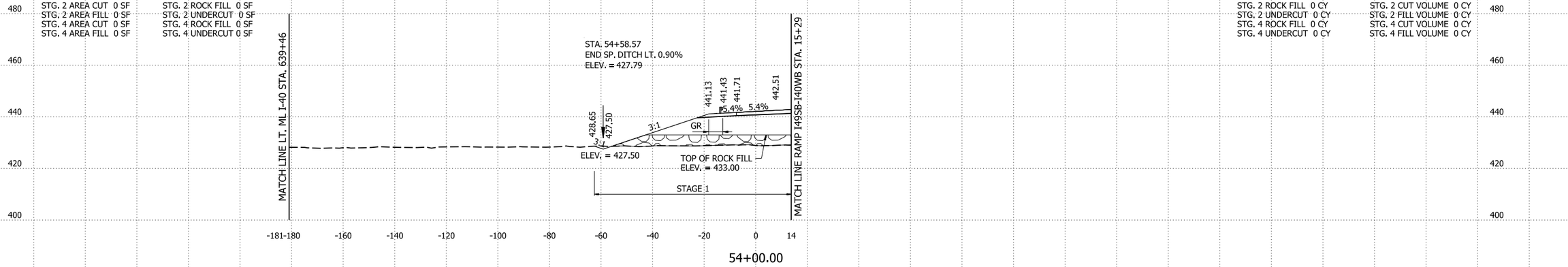
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	647	742
		CROSS SECTIONS				

STG. 1 AREA CUT 4 SF
STG. 1 AREA FILL 342 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 260 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 1154 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 9 CY
STG. 1 FILL VOLUME 1497 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



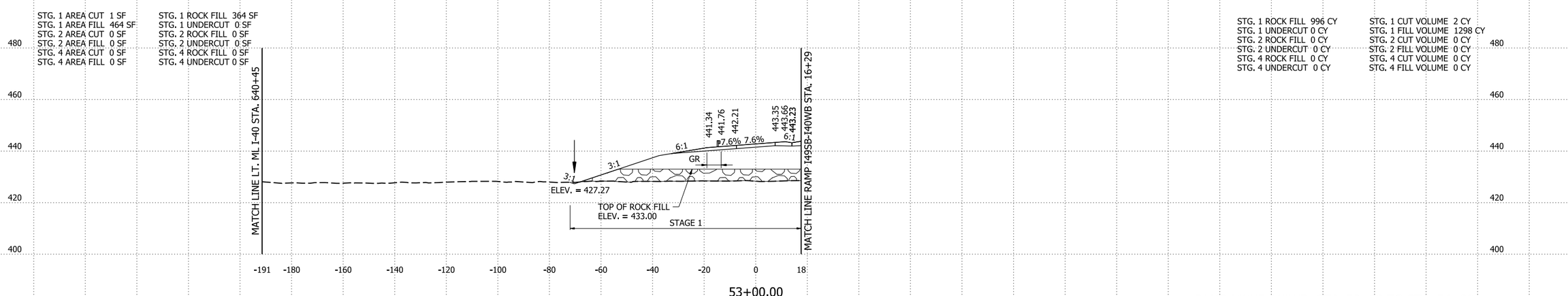
54+00.00

STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 464 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 364 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 996 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 1298 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



53+00.00

RAMP I49NB-I40WB STA. 53+00 TO STA. 54+00

4/30/2026 8:15:34 AM
R040904_22_CX.dgn

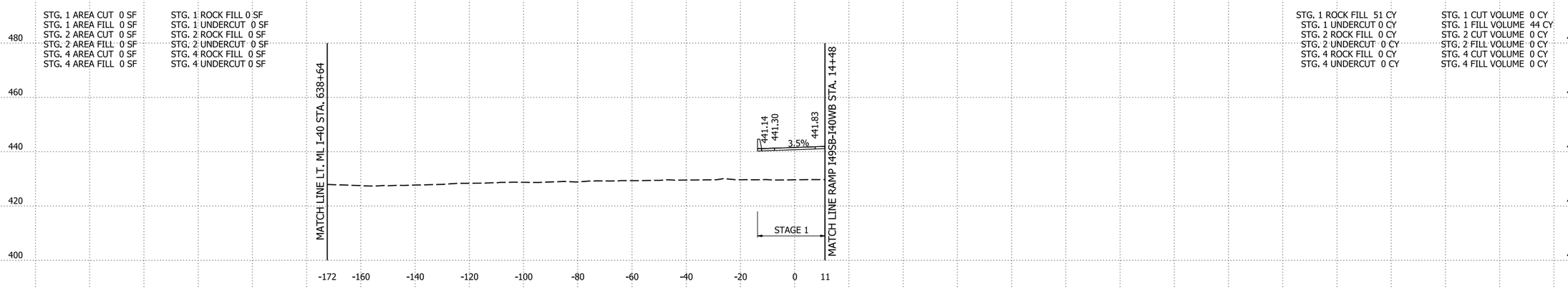
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	648	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 51 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 44 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



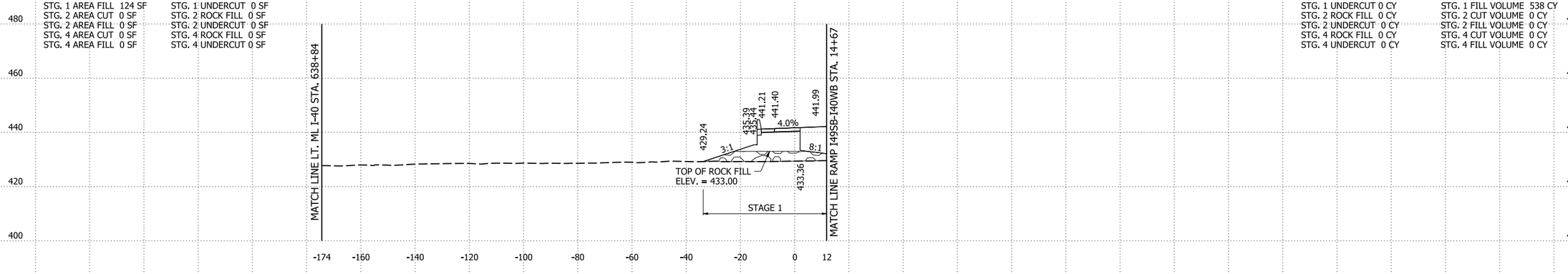
54+81.73
BRIDGE 07694 TOE OF SLOPE

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 124 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 143 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 466 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 4 CY
STG. 1 FILL VOLUME 538 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



54+62.40
BEGIN BRIDGE 07694

RAMP I49NB-I40WB STA. 54+62.40 TO STA. 54+81.73

4/30/2026 8:15:35 AM
R040904_22_CX.dgn

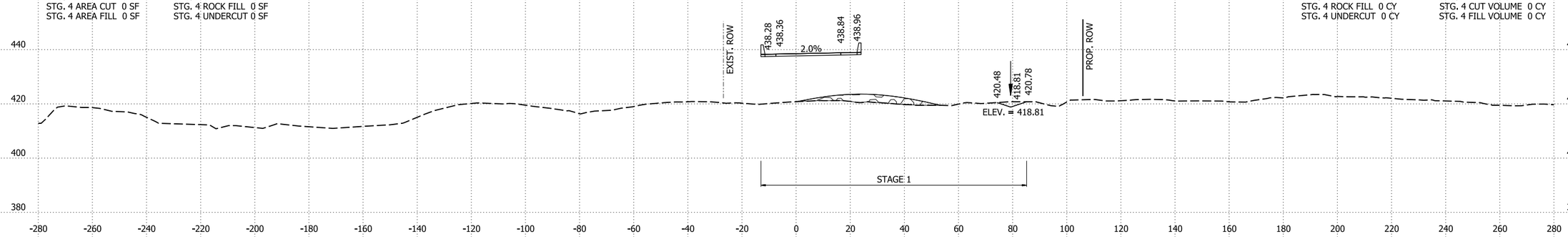
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	649	742
		CROSS SECTIONS				

STG. 1 AREA CUT 11 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 101 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 18 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 4 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



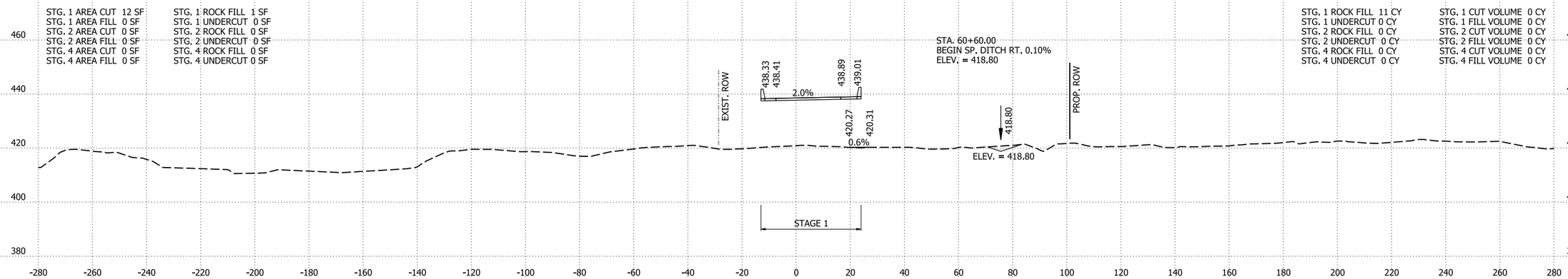
60+69.75
BRIDGE 07694 TOE OF SLOPE

STG. 1 AREA CUT 12 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 1 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 11 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



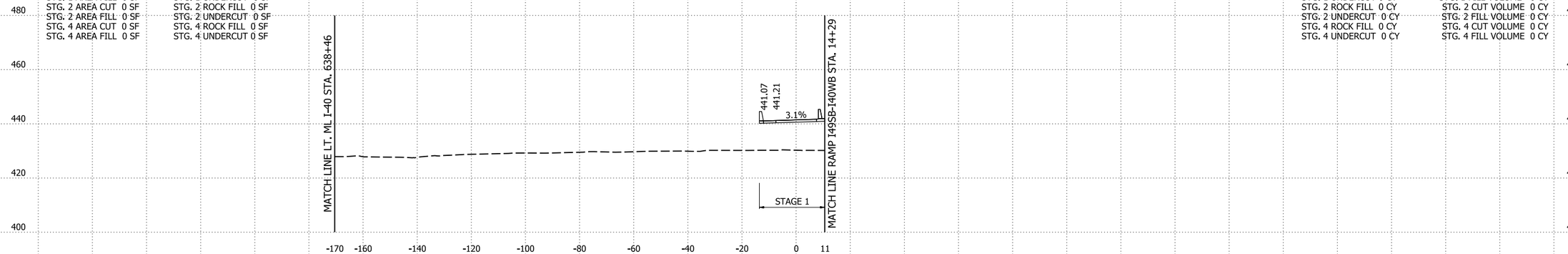
60+60.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 16 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



55+00.00

RAMP I49NB-I40WB STA. 55+00 TO STA. 60+72.43

4/30/2026 8:15:35 AM
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	650	742
		CROSS SECTIONS				

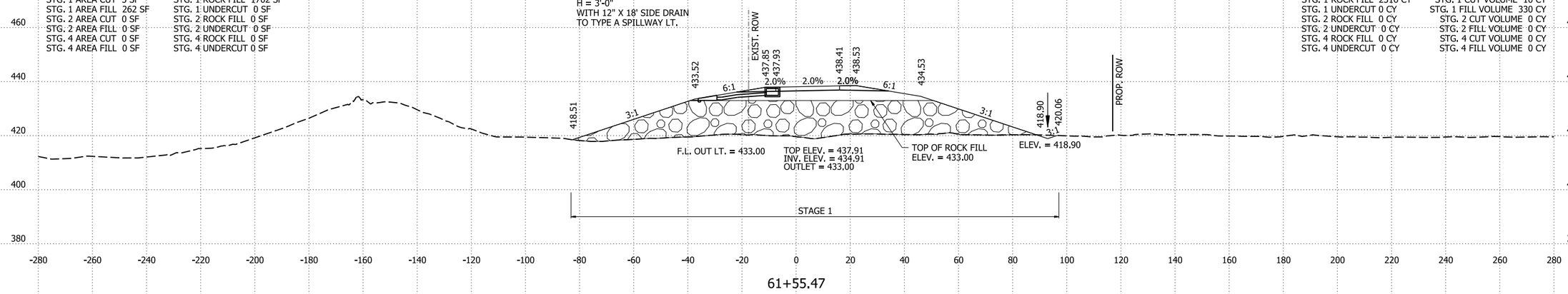
STG. 1 AREA CUT 5 SF
STG. 1 AREA FILL 262 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 1702 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STA. 61+55.47 CONSTRUCT
TYPE N2 DROP INLET LT. I-49 N.B.
H = 3'-0"
WITH 12" X 18' SIDE DRAIN
TO TYPE A SPILLWAY LT.

STG. 1 ROCK FILL 2316 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 10 CY
STG. 1 FILL VOLUME 330 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



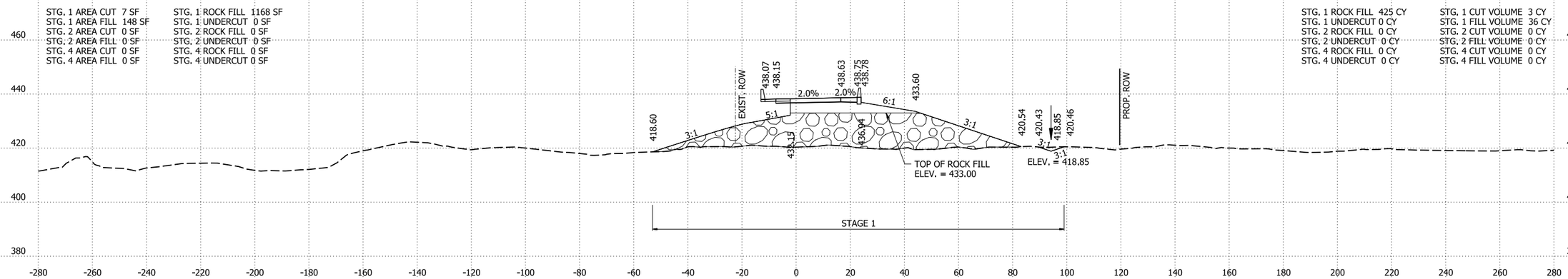
61+55.47

STG. 1 AREA CUT 7 SF
STG. 1 AREA FILL 148 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 1168 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 425 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 3 CY
STG. 1 FILL VOLUME 36 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



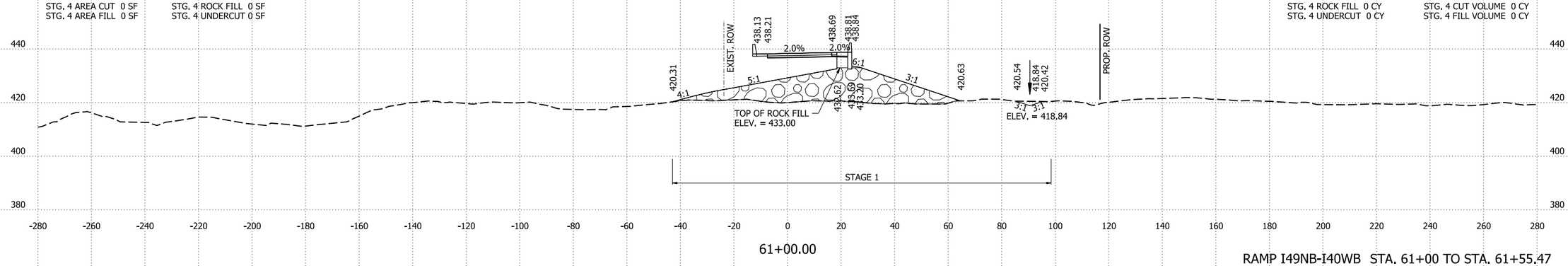
61+11.90
END BRIDGE 07694

STG. 1 AREA CUT 8 SF
STG. 1 AREA FILL 17 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 761 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 482 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 11 CY
STG. 1 FILL VOLUME 9 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



61+00.00

RAMP I49NB-I40WB STA. 61+00 TO STA. 61+55.47

6/2/2026 9:25:19 AM
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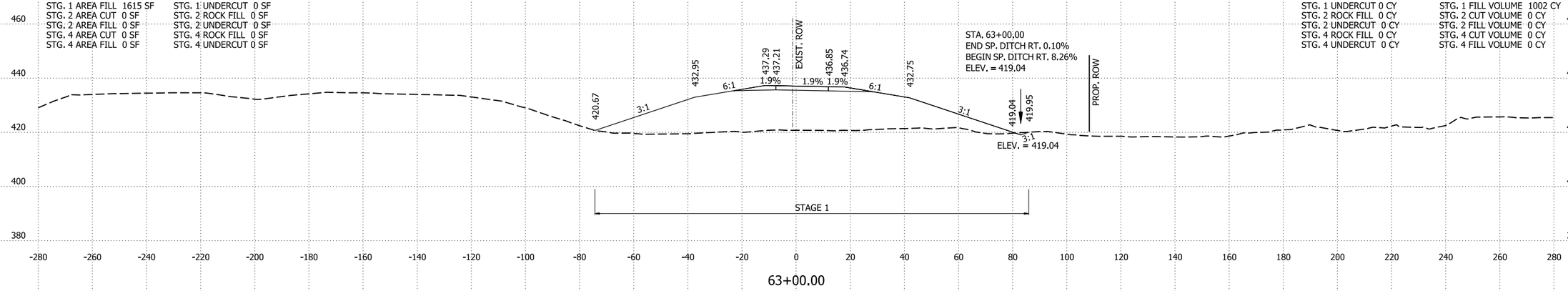
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	651	742
		CROSS SECTIONS				

STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 1615 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 842 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 1002 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



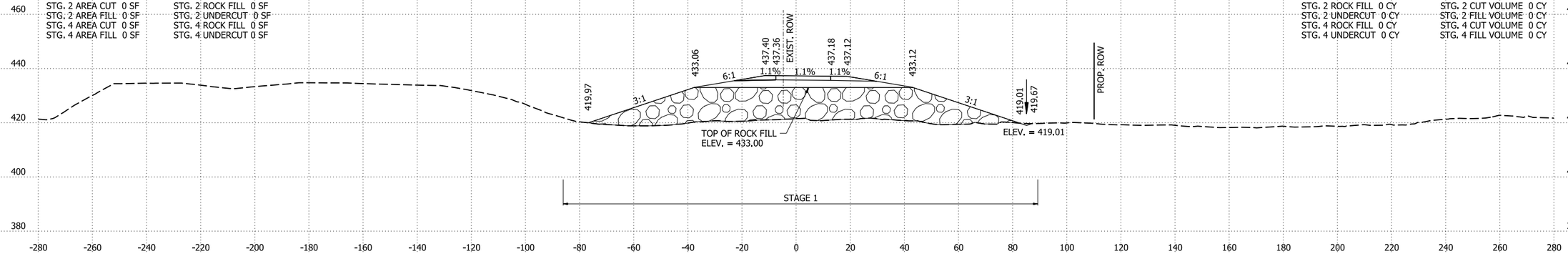
63+00.00

STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 173 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 1516 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 4001 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 10 CY
STG. 1 FILL VOLUME 523 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



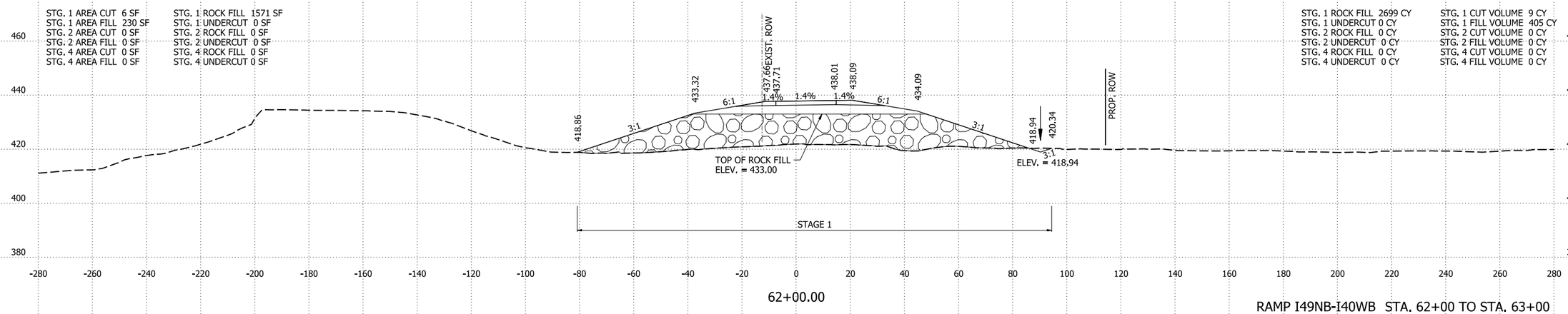
62+70.00

STG. 1 AREA CUT 6 SF
STG. 1 AREA FILL 230 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 1571 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 2699 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 9 CY
STG. 1 FILL VOLUME 405 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



62+00.00

RAMP I49NB-I40WB STA. 62+00 TO STA. 63+00

4/30/2026 8:15:36 AM
R040904_22_CX.dgn

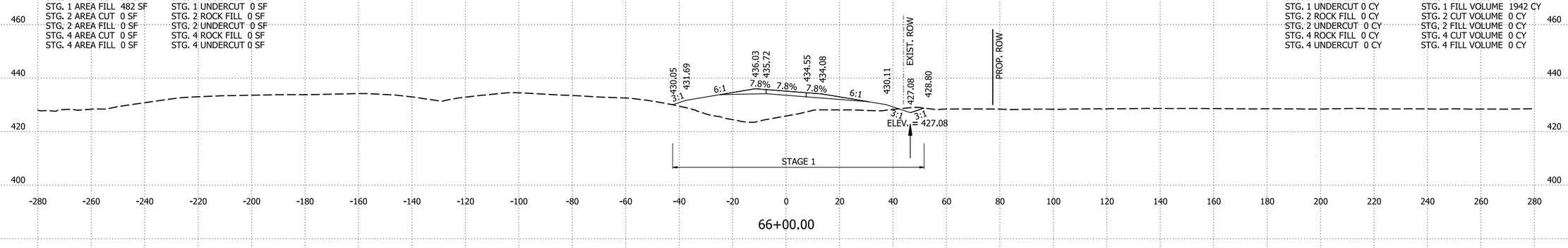
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	652	742
		CROSS SECTIONS				

STG. 1 AREA CUT 10 SF
STG. 1 AREA FILL 482 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 32 CY
STG. 1 FILL VOLUME 1942 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



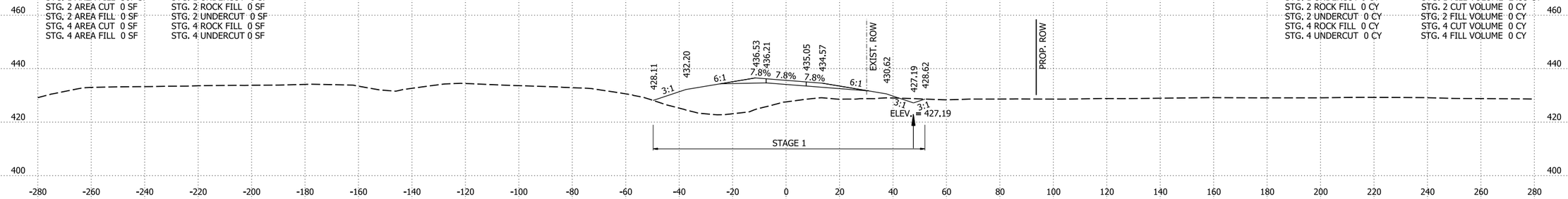
66+00.00

STG. 1 AREA CUT 8 SF
STG. 1 AREA FILL 567 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 61 CY
STG. 1 FILL VOLUME 2455 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



65+00.00

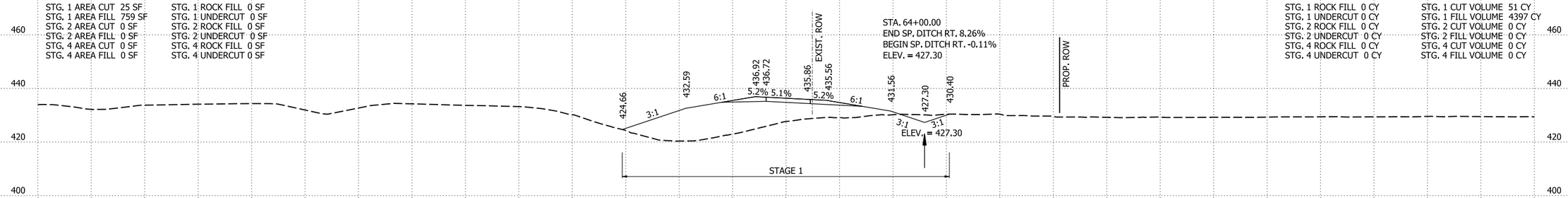
STG. 1 AREA CUT 25 SF
STG. 1 AREA FILL 759 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STA. 64+00.00
END SP. DITCH RT. 8.26%
BEGIN SP. DITCH RT. -0.11%
ELEV. = 427.30

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 51 CY
STG. 1 FILL VOLUME 4397 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



64+00.00

RAMP I49NB-I40WB STA. 64+00 TO STA. 66+00

4/30/2026 8:15:36 AM
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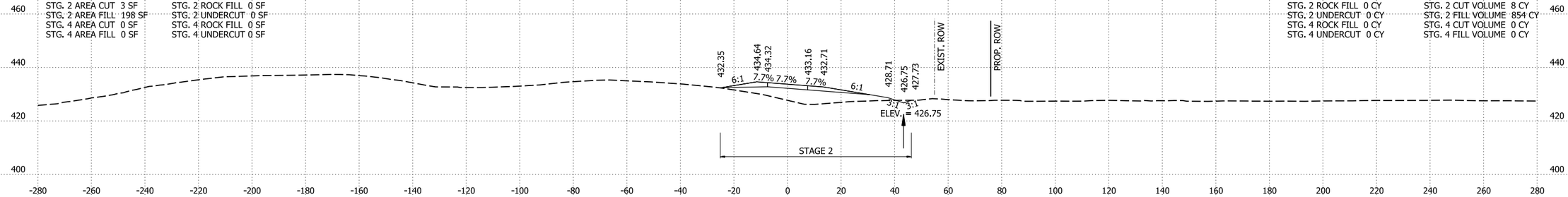
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	653	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 3 SF
STG. 2 AREA FILL 198 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 8 CY
STG. 2 FILL VOLUME 854 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



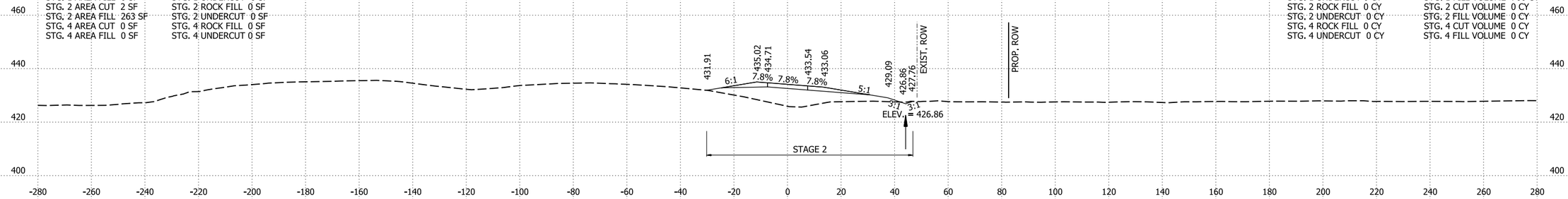
69+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 2 SF
STG. 2 AREA FILL 263 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 5 CY
STG. 1 FILL VOLUME 700 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



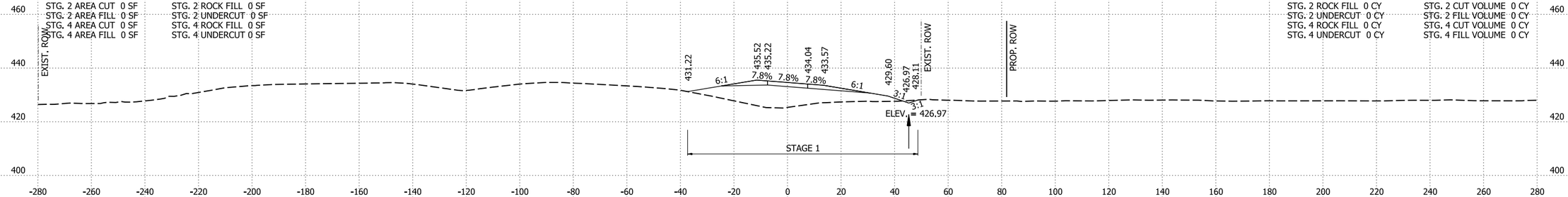
68+00.00

STG. 1 AREA CUT 3 SF
STG. 1 AREA FILL 378 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 23 CY
STG. 1 FILL VOLUME 1593 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



67+00.00

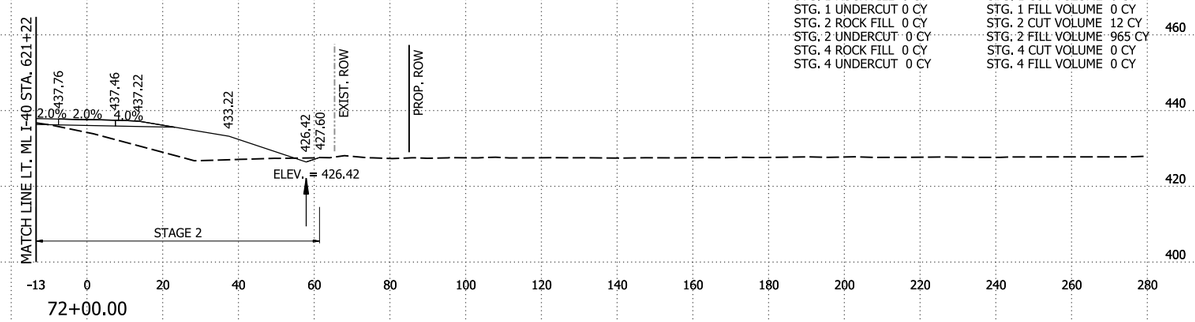
RAMP I49NB-I40WB STA. 67+00 TO STA. 69+00

4/30/2026 8:15:37 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	654	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 3 SF
STG. 2 AREA FILL 274 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

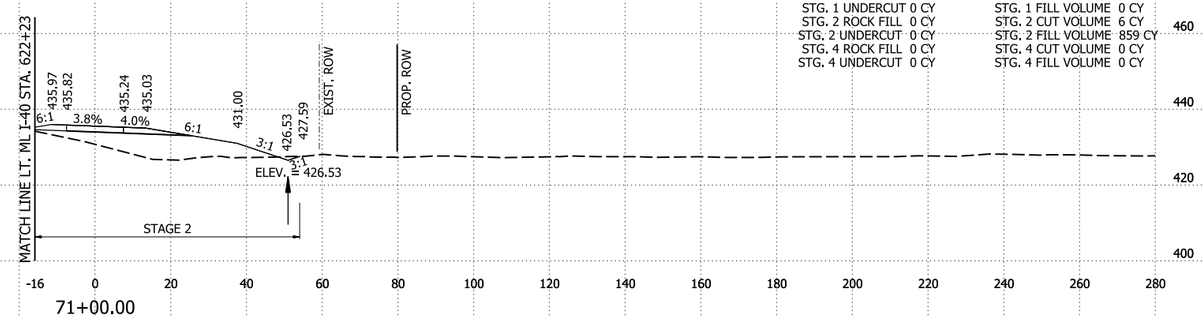


STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 12 CY
STG. 2 FILL VOLUME 965 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 3 SF
STG. 2 AREA FILL 247 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

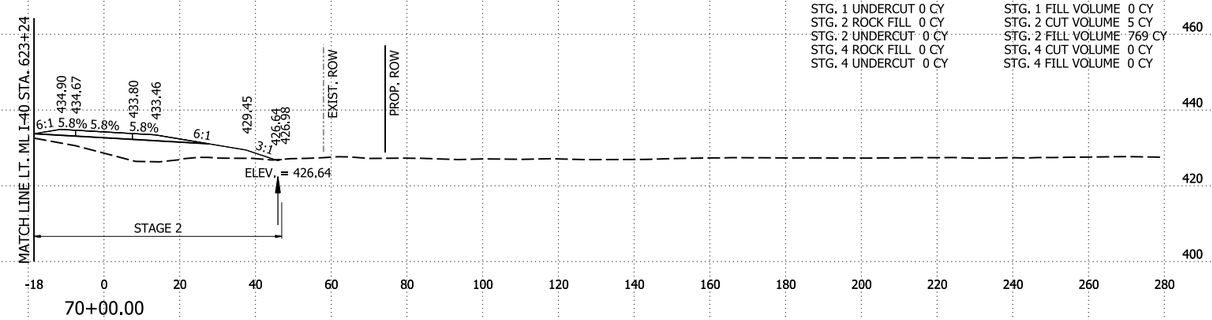


STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 6 CY
STG. 2 FILL VOLUME 859 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 217 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF



STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 5 CY
STG. 2 FILL VOLUME 769 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY

RAMP I49NB-I40WB STA. 70+00 TO STA. 72+00

4/30/2026 8:15:37 AM
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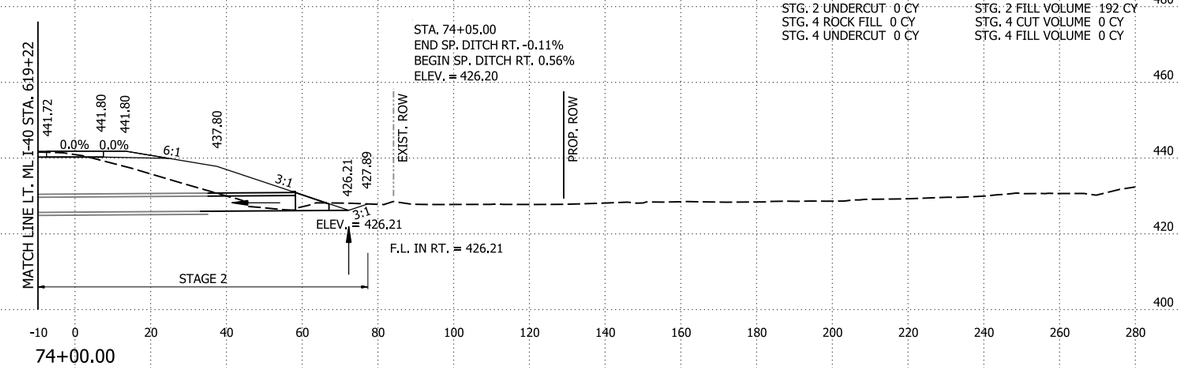
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	655	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 23 SF
STG. 2 AREA FILL 290 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 25 CY
STG. 2 FILL VOLUME 192 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY

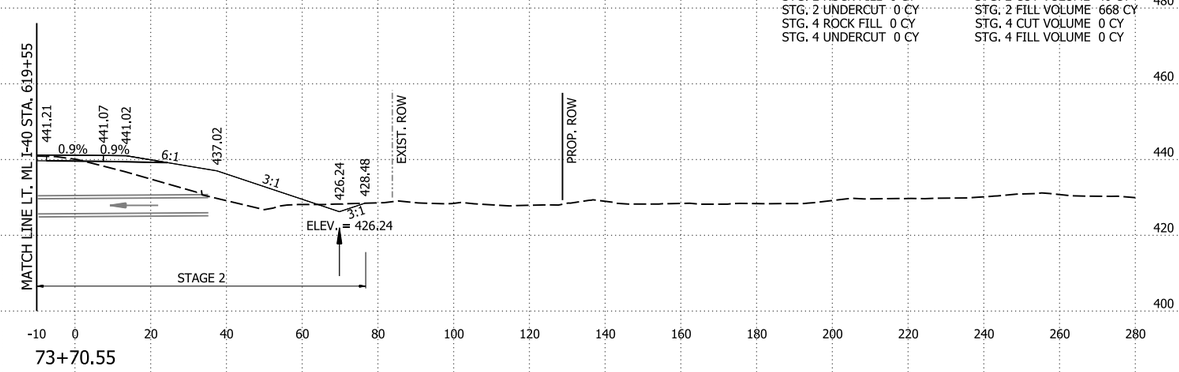


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 23 SF
STG. 2 AREA FILL 266 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 40 CY
STG. 2 FILL VOLUME 668 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY

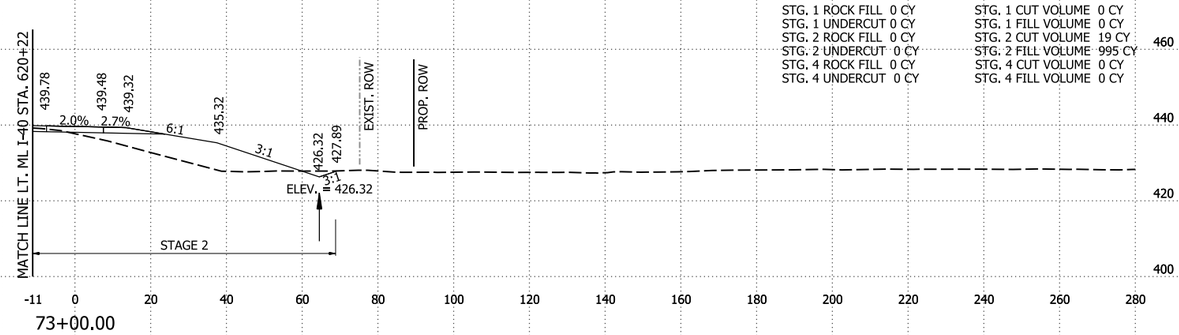


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 7 SF
STG. 2 AREA FILL 246 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 19 CY
STG. 2 FILL VOLUME 995 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



RAMP I49NB-I40WB STA. 73+00 TO STA. 74+00

4/30/2026 8:15:37 AM
R040904_22_CX.dgn

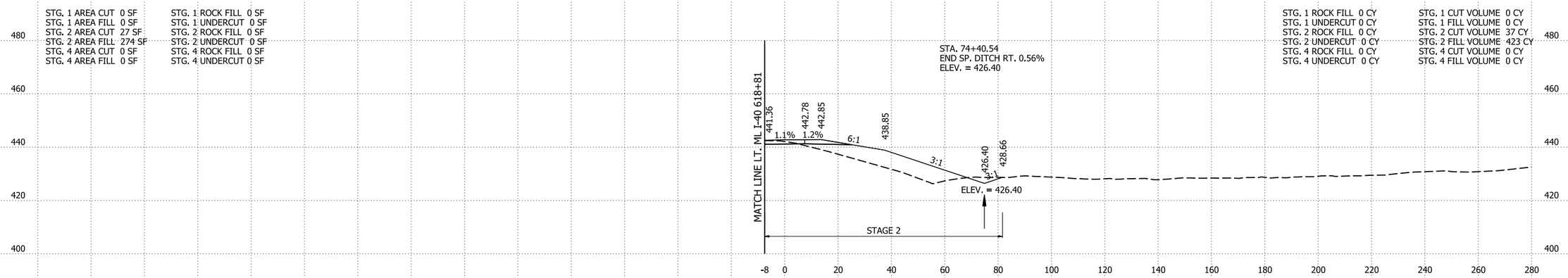
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	656	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 27 SF
STG. 2 AREA FILL 274 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 37 CY
STG. 2 FILL VOLUME 423 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



74+40.54
END RAMP I49NB-I40WB

RAMP I49NB-I40WB STA. 74+40.54 TO STA. 74+40.54

4/30/2026 8:15:38 AM
R040904_22_CX.dgn

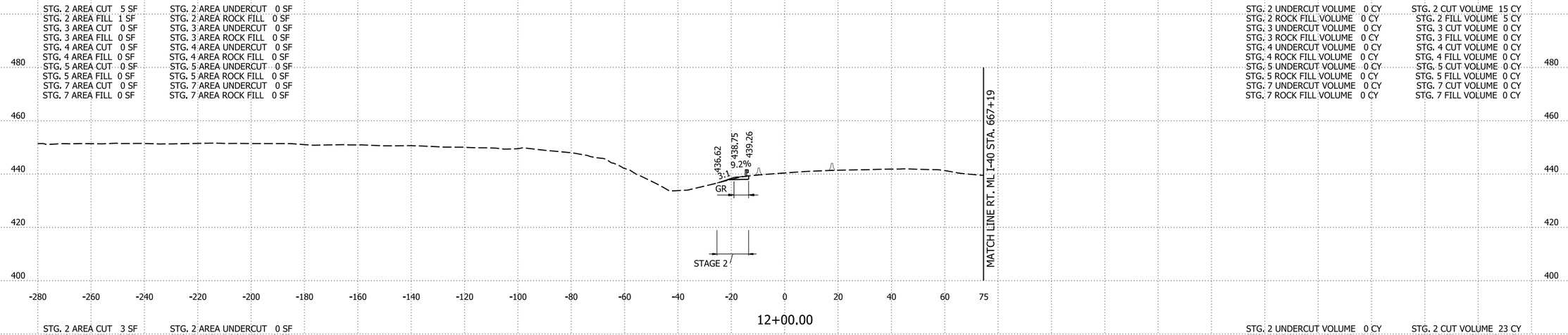
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	657	742
		CROSS SECTIONS				

STG. 2 AREA CUT 5 SF
STG. 2 AREA FILL 1 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 15 CY
STG. 2 FILL VOLUME 5 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



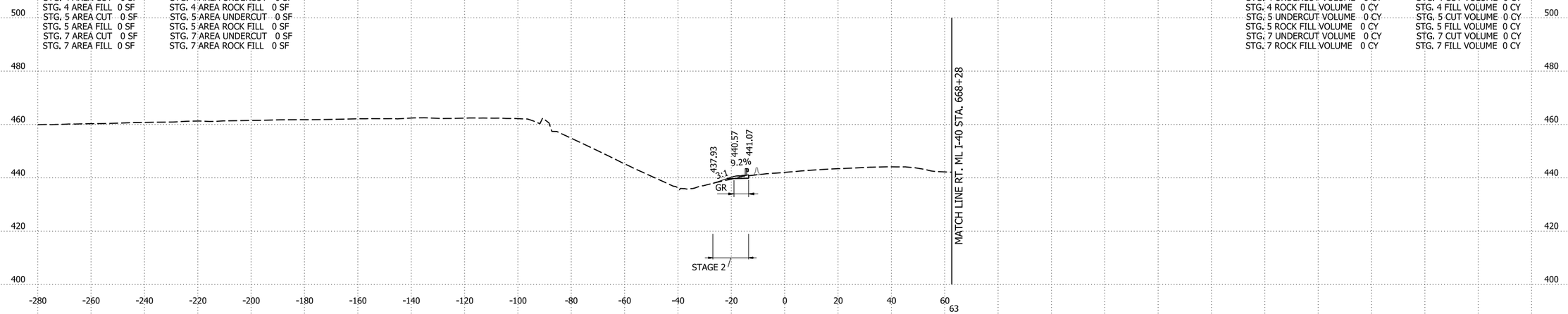
12+00.00

STG. 2 AREA CUT 3 SF
STG. 2 AREA FILL 2 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 23 CY
STG. 2 FILL VOLUME 4 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



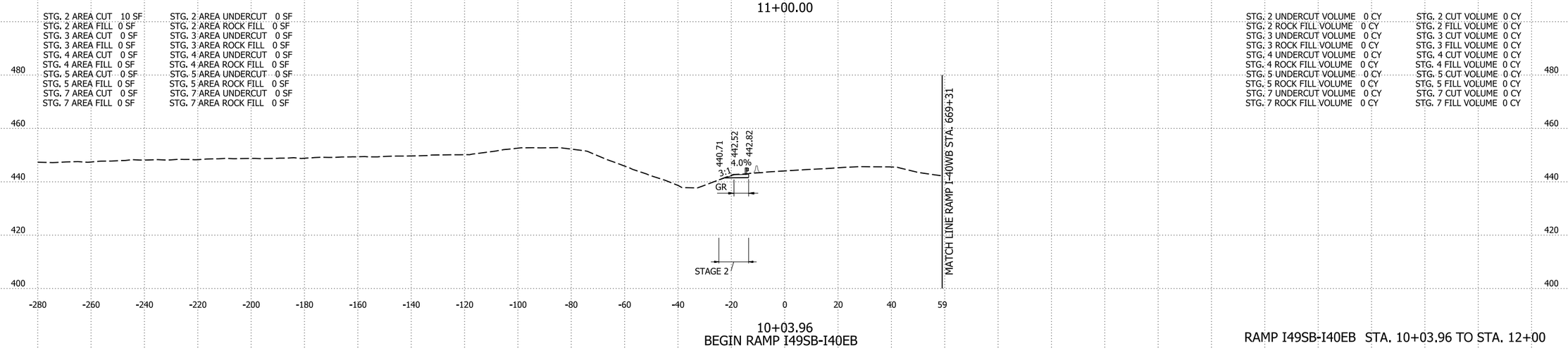
11+00.00

STG. 2 AREA CUT 10 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



10+03.96
BEGIN RAMP I49SB-I40EB

RAMP I49SB-I40EB STA. 10+03.96 TO STA. 12+00

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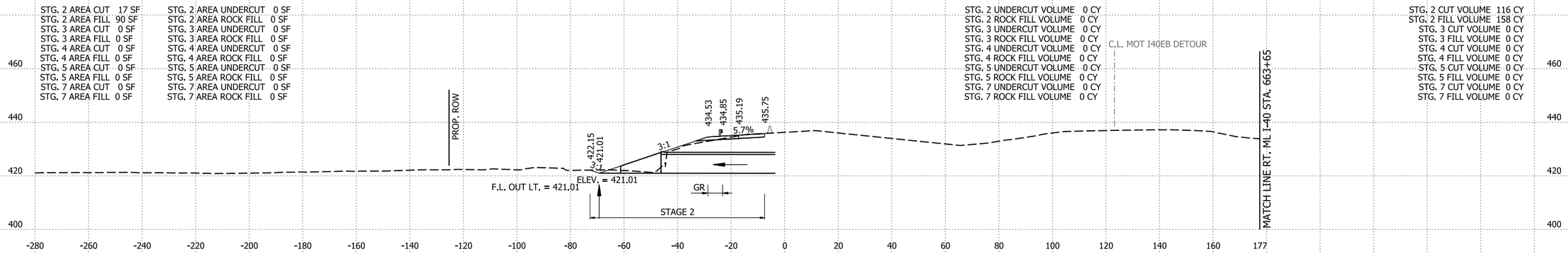
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	658	742
		CROSS SECTIONS				

STG. 2 AREA CUT 17 SF
STG. 2 AREA FILL 90 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 116 CY
STG. 2 FILL VOLUME 158 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



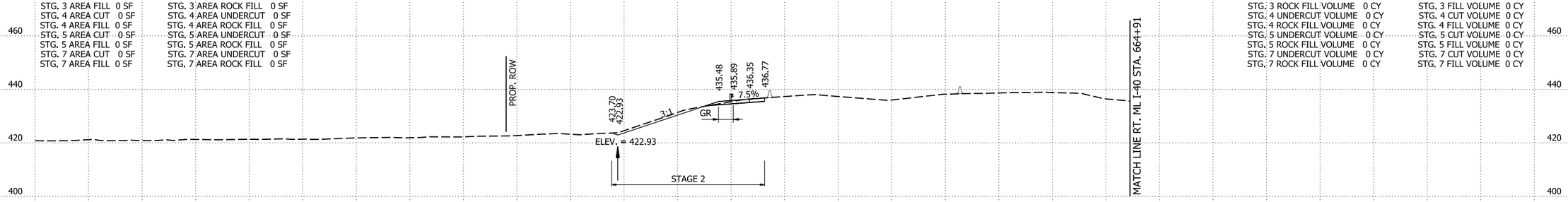
15+00.00

STG. 2 AREA CUT 46 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 215 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



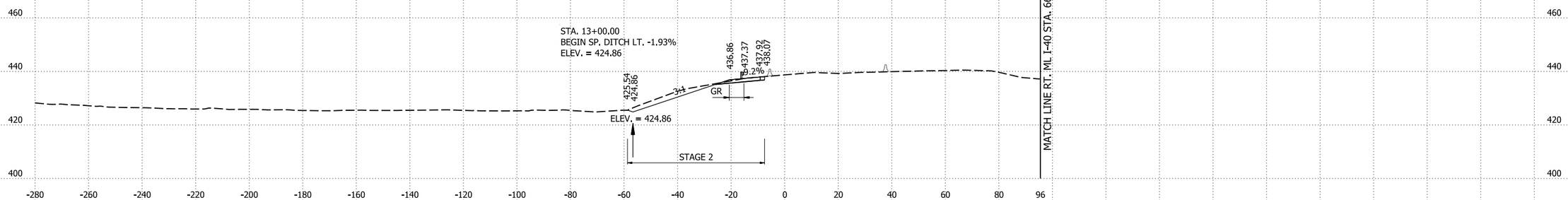
14+00.00

STG. 2 AREA CUT 70 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 139 CY
STG. 2 FILL VOLUME 1 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



13+00.00

RAMP I49SB-I40EB STA. 13+00 TO STA. 15+00

4/30/2026 8:15:39 AM
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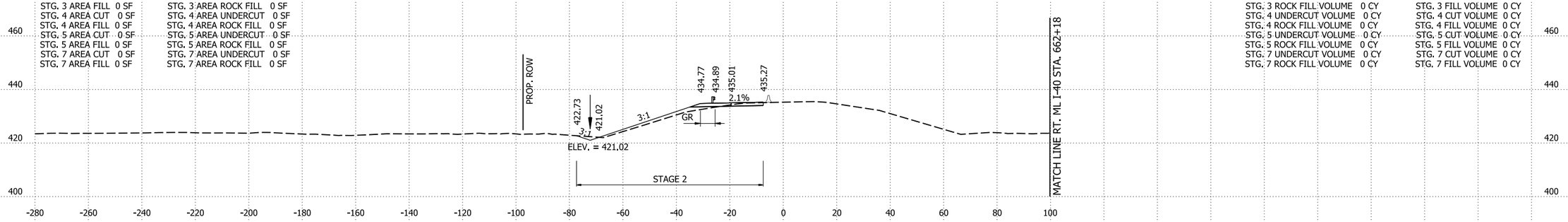
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	659	742
		CROSS SECTIONS				

STG. 2 AREA CUT 18 SF
STG. 2 AREA FILL 43 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 79 CY
STG. 2 FILL VOLUME 182 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



17+00.00

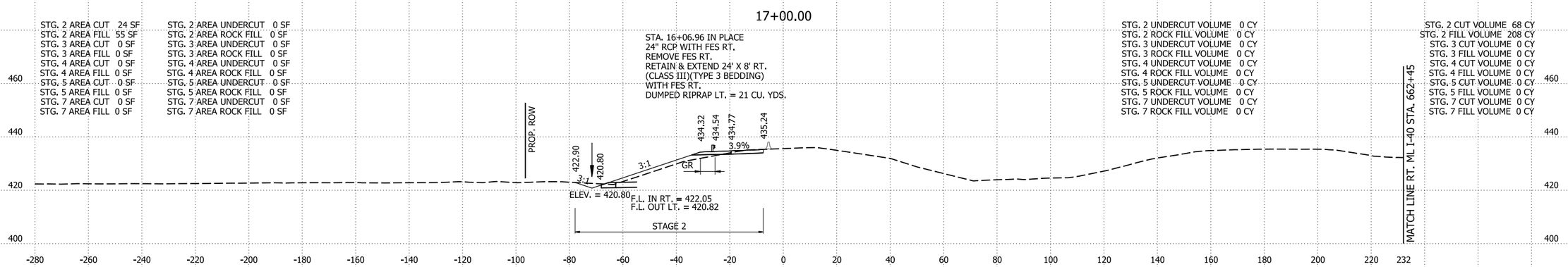
STG. 2 AREA CUT 24 SF
STG. 2 AREA FILL 55 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STA. 16+06.96 IN PLACE
24" RCP WITH FES RT.
REMOVE FES RT.
RETAIN & EXTEND 24' X 8' RT.
(CLASS III)(TYPE 3 BEDDING)
WITH FES RT.
DUMPED RIPRAP LT. = 21 CU. YDS.

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 68 CY
STG. 2 FILL VOLUME 208 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



16+00.00

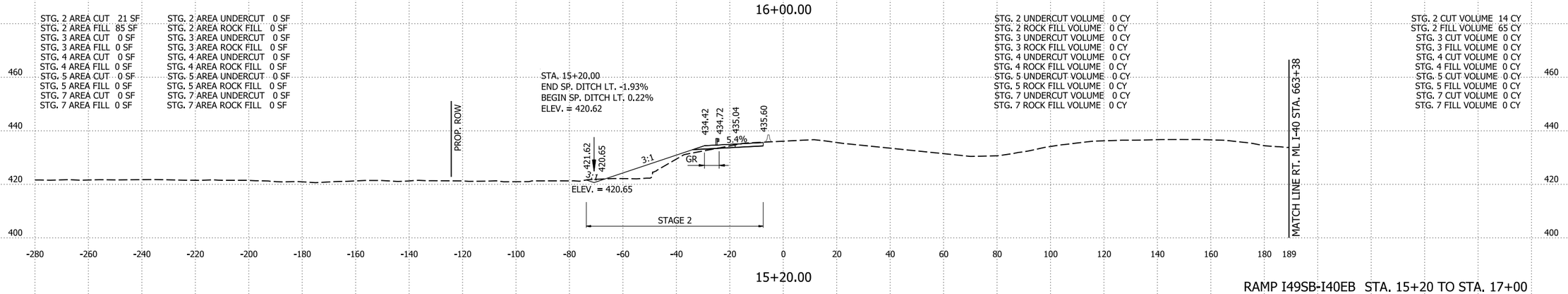
STG. 2 AREA CUT 21 SF
STG. 2 AREA FILL 85 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STA. 15+20.00
END SP. DITCH LT. -1.93%
BEGIN SP. DITCH LT. 0.22%
ELEV. = 420.62

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 14 CY
STG. 2 FILL VOLUME 65 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



15+20.00

RAMP I49SB-I40EB STA. 15+20 TO STA. 17+00

4/30/2026 8:15:39 AM
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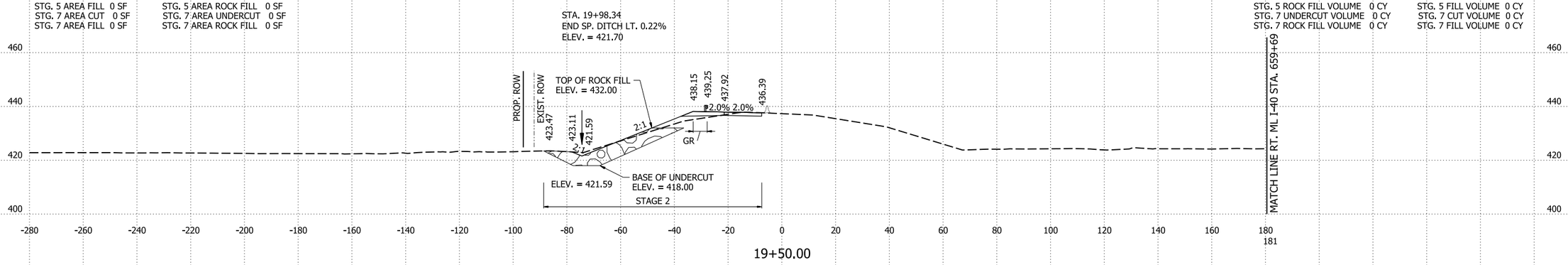
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	660	742
		CROSS SECTIONS				

STG. 2 AREA CUT 24 SF
STG. 2 AREA FILL 30 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 219 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 41 CY
STG. 2 FILL VOLUME 97 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



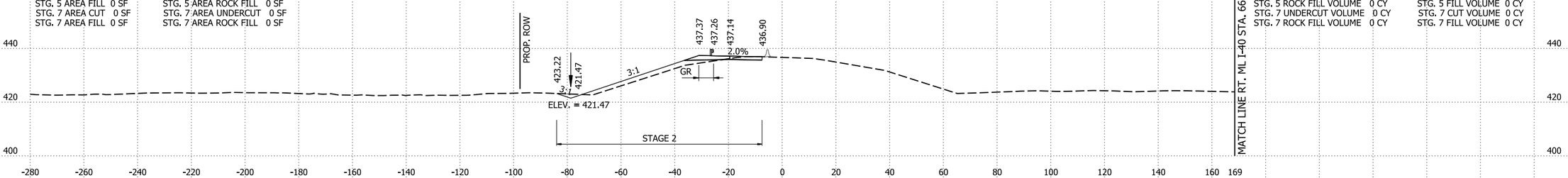
19+50.00

STG. 2 AREA CUT 20 SF
STG. 2 AREA FILL 75 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 64 CY
STG. 2 FILL VOLUME 264 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



19+00.00

STG. 2 AREA CUT 15 SF
STG. 2 AREA FILL 68 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 61 CY
STG. 2 FILL VOLUME 205 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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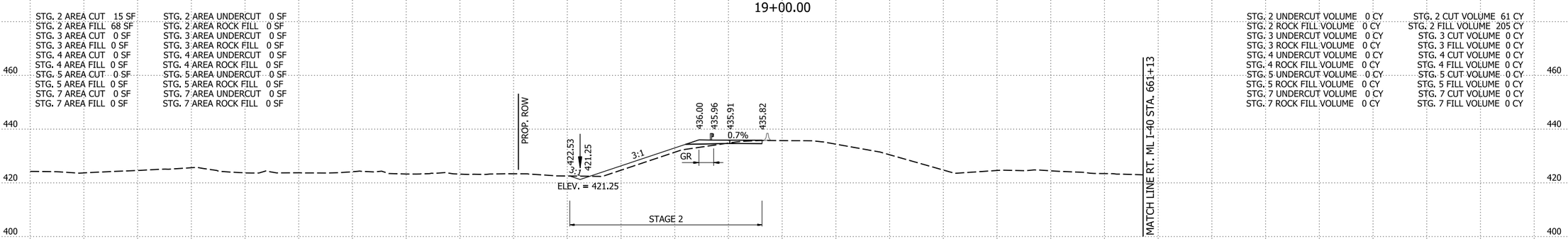
STG. 7 FILL VOLUME 0 CY



18+00.00

RAMP I49SB-I40EB STA. 18+00 TO STA. 19+50

4/30/2026 8:15:39 AM
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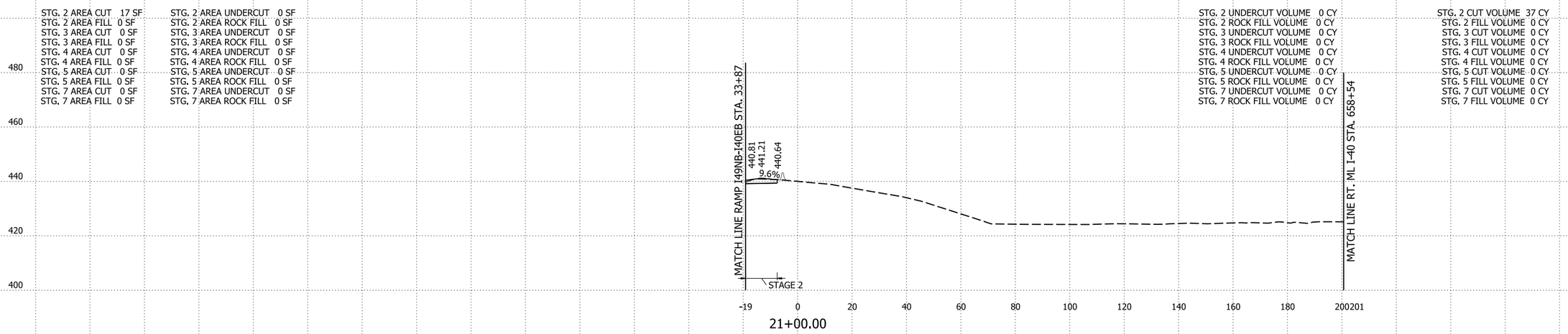
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	661	742
		CROSS SECTIONS				

STG. 2 AREA CUT 17 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

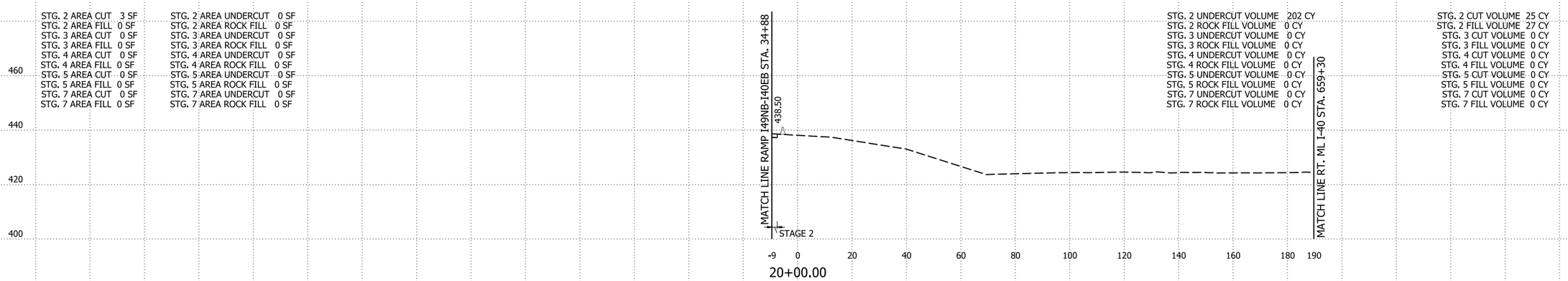


STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 37 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 2 AREA CUT 3 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF



STG. 2 UNDERCUT VOLUME 202 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 25 CY
STG. 2 FILL VOLUME 27 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

RAMP I49SB-I40EB STA. 20+00 TO STA. 21+00

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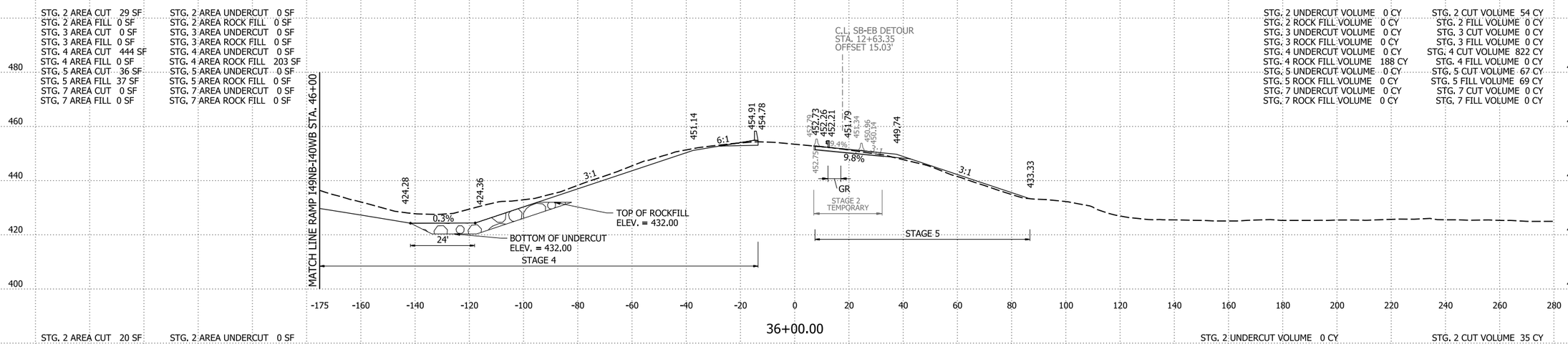
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	662	742
		CROSS SECTIONS				

STG. 2 AREA CUT 29 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 444 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 36 SF
STG. 5 AREA FILL 37 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 203 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 188 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 54 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 822 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 67 CY
STG. 5 FILL VOLUME 69 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

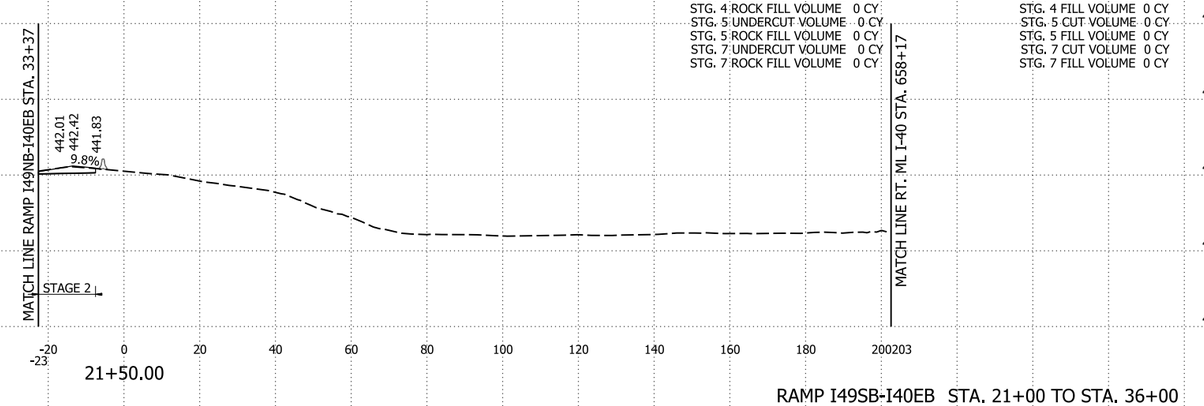


STG. 2 AREA CUT 20 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 35 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



RAMP I49SB-I40EB STA. 21+00 TO STA. 36+00

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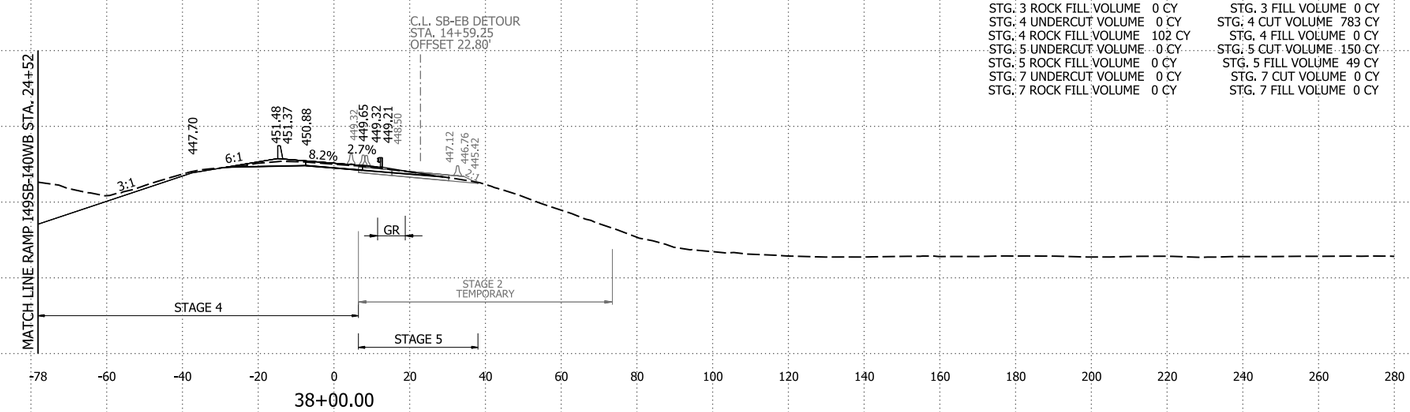
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	663	742
		CROSS SECTIONS				

STG. 2 AREA CUT 37 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 165 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 46 SF
STG. 5 AREA FILL 23 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 102 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 99 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 783 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 150 CY
STG. 5 FILL VOLUME 49 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



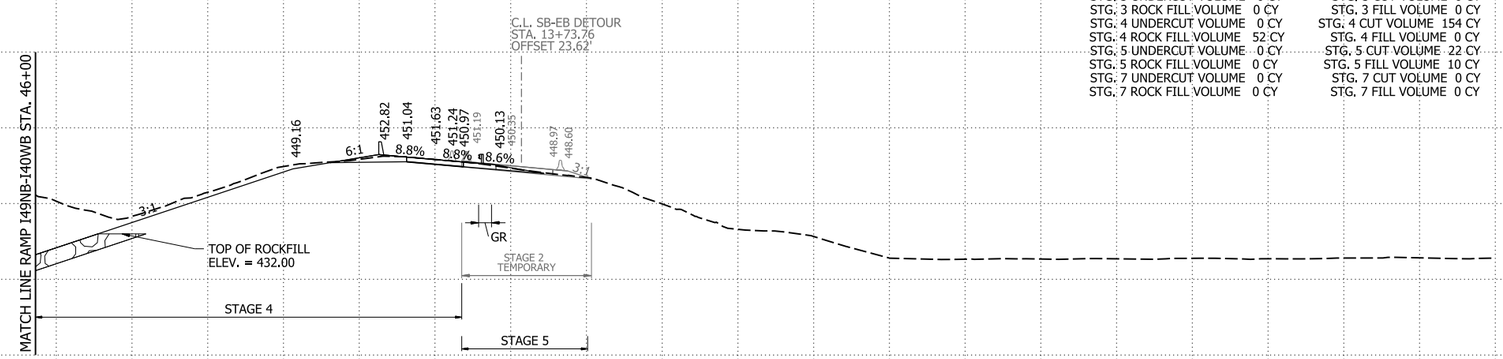
38+00.00

STG. 2 AREA CUT 24 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 321 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 47 SF
STG. 5 AREA FILL 8 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 96 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 52 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 12 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 154 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 22 CY
STG. 5 FILL VOLUME 10 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



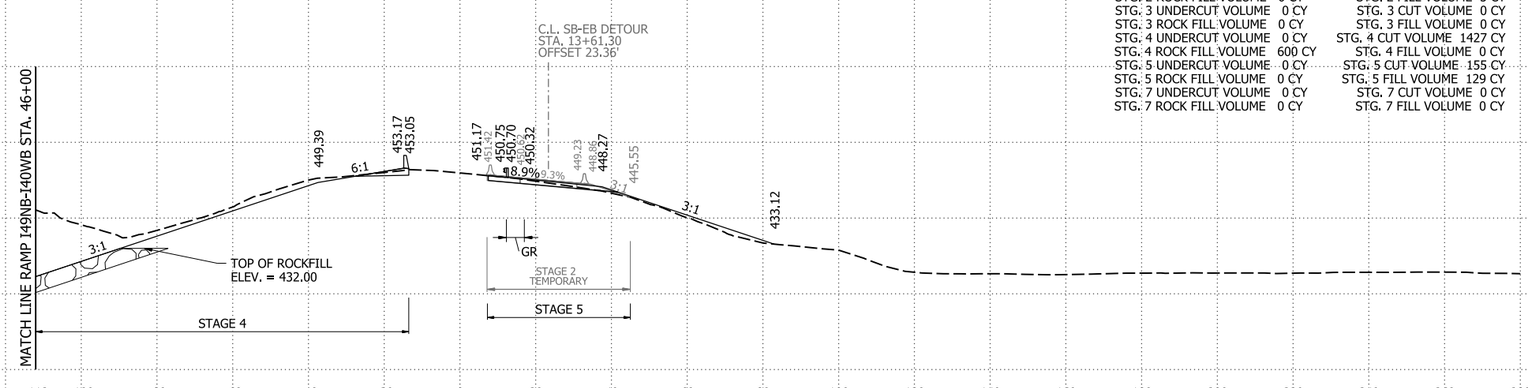
37+12.82

STG. 2 AREA CUT 25 SF
STG. 2 AREA FILL 2 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 326 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 48 SF
STG. 5 AREA FILL 33 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 121 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 600 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 100 CY
STG. 2 FILL VOLUME 3 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 1427 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 155 CY
STG. 5 FILL VOLUME 129 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



37+00.00

RAMP I49SB-I40EB STA. 37+00 TO STA. 38+00

9/3/2026 2:24:30 PM
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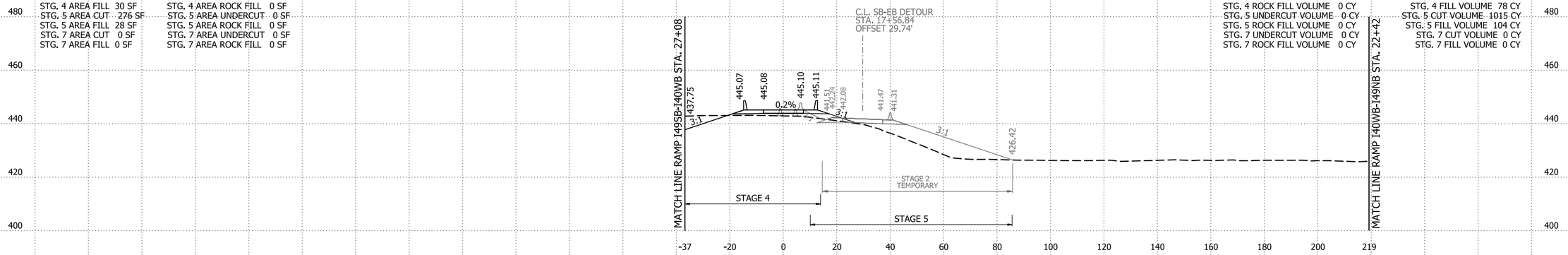
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	664	742
		CROSS SECTIONS				

STG. 2 AREA CUT 6 SF
STG. 2 AREA FILL 233 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 41 SF
STG. 4 AREA FILL 30 SF
STG. 5 AREA CUT 276 SF
STG. 5 AREA FILL 28 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 24 CY
STG. 2 FILL VOLUME 852 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 299 CY
STG. 4 FILL VOLUME 78 CY
STG. 5 CUT VOLUME 1015 CY
STG. 5 FILL VOLUME 104 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

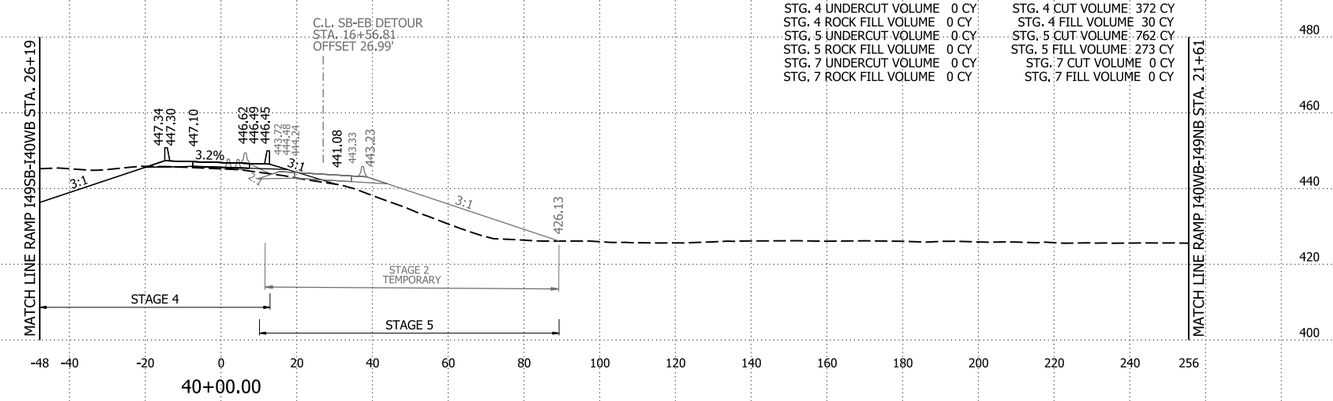


STG. 2 AREA CUT 7 SF
STG. 2 AREA FILL 227 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 120 SF
STG. 4 AREA FILL 13 SF
STG. 5 AREA CUT 272 SF
STG. 5 AREA FILL 28 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 56 CY
STG. 2 FILL VOLUME 590 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 372 CY
STG. 4 FILL VOLUME 30 CY
STG. 5 CUT VOLUME 762 CY
STG. 5 FILL VOLUME 273 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

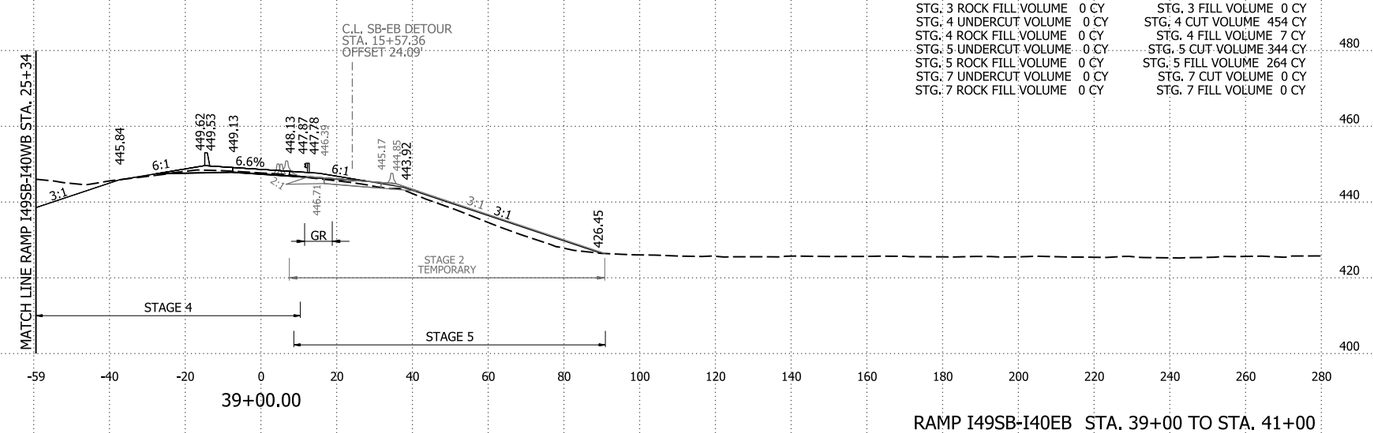


STG. 2 AREA CUT 24 SF
STG. 2 AREA FILL 91 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 80 SF
STG. 4 AREA FILL 4 SF
STG. 5 AREA CUT 140 SF
STG. 5 AREA FILL 120 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 113 CY
STG. 2 FILL VOLUME 169 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 454 CY
STG. 4 FILL VOLUME 7 CY
STG. 5 CUT VOLUME 344 CY
STG. 5 FILL VOLUME 264 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



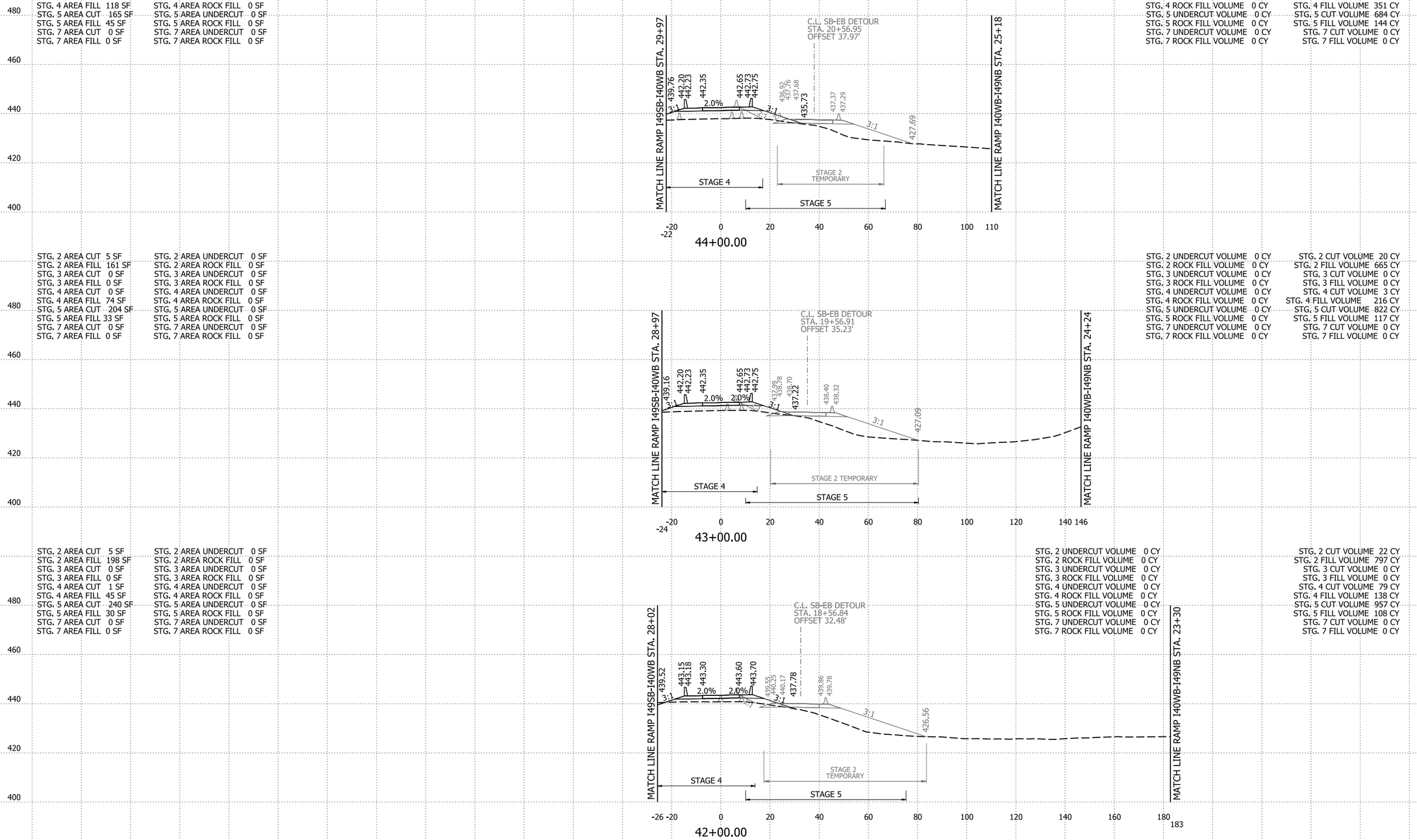
RAMP I49SB-I40EB STA. 39+00 TO STA. 41+00

4/30/2026 8:15:41 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	665	742
		CROSS SECTIONS				

STG. 2 AREA CUT 4 SF
STG. 2 AREA FILL 122 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 118 SF
STG. 5 AREA CUT 165 SF
STG. 5 AREA FILL 45 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF



STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 17 CY
STG. 2 FILL VOLUME 524 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 351 CY
STG. 5 CUT VOLUME 684 CY
STG. 5 FILL VOLUME 144 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 2 AREA CUT 5 SF
STG. 2 AREA FILL 161 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 74 SF
STG. 5 AREA CUT 204 SF
STG. 5 AREA FILL 33 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 20 CY
STG. 2 FILL VOLUME 665 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 3 CY
STG. 4 FILL VOLUME 216 CY
STG. 5 CUT VOLUME 822 CY
STG. 5 FILL VOLUME 117 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 2 AREA CUT 5 SF
STG. 2 AREA FILL 198 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 1 SF
STG. 4 AREA FILL 45 SF
STG. 5 AREA CUT 240 SF
STG. 5 AREA FILL 30 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 22 CY
STG. 2 FILL VOLUME 797 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 79 CY
STG. 4 FILL VOLUME 138 CY
STG. 5 CUT VOLUME 957 CY
STG. 5 FILL VOLUME 108 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

RAMP I49SB-I40EB STA. 42+00 TO STA. 44+00

4/30/2026 8:15:41 AM
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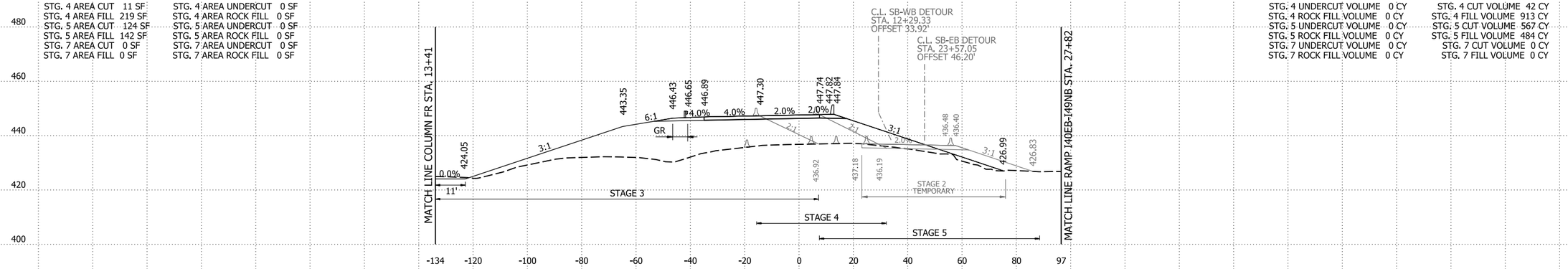
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	666	742
		CROSS SECTIONS				

STG. 2 AREA CUT 12 SF
STG. 2 AREA FILL 115 SF
STG. 3 AREA CUT 8 SF
STG. 3 AREA FILL 989 SF
STG. 4 AREA CUT 11 SF
STG. 4 AREA FILL 219 SF
STG. 5 AREA CUT 124 SF
STG. 5 AREA FILL 142 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 57 CY
STG. 2 FILL VOLUME 438 CY
STG. 3 CUT VOLUME 16 CY
STG. 3 FILL VOLUME 1831 CY
STG. 4 CUT VOLUME 42 CY
STG. 4 FILL VOLUME 913 CY
STG. 5 CUT VOLUME 567 CY
STG. 5 FILL VOLUME 484 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



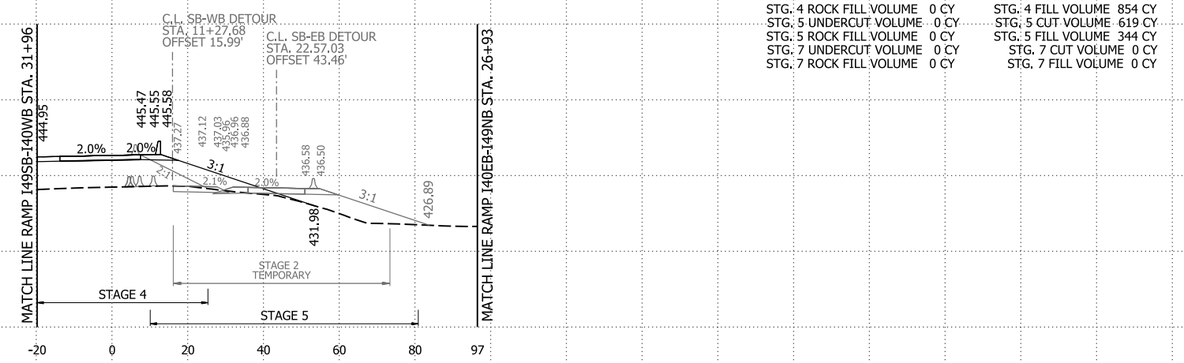
47+00.00

STG. 2 AREA CUT 18 SF
STG. 2 AREA FILL 121 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 11 SF
STG. 4 AREA FILL 274 SF
STG. 5 AREA CUT 182 SF
STG. 5 AREA FILL 120 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 42 CY
STG. 2 FILL VOLUME 426 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 42 CY
STG. 4 FILL VOLUME 854 CY
STG. 5 CUT VOLUME 619 CY
STG. 5 FILL VOLUME 344 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



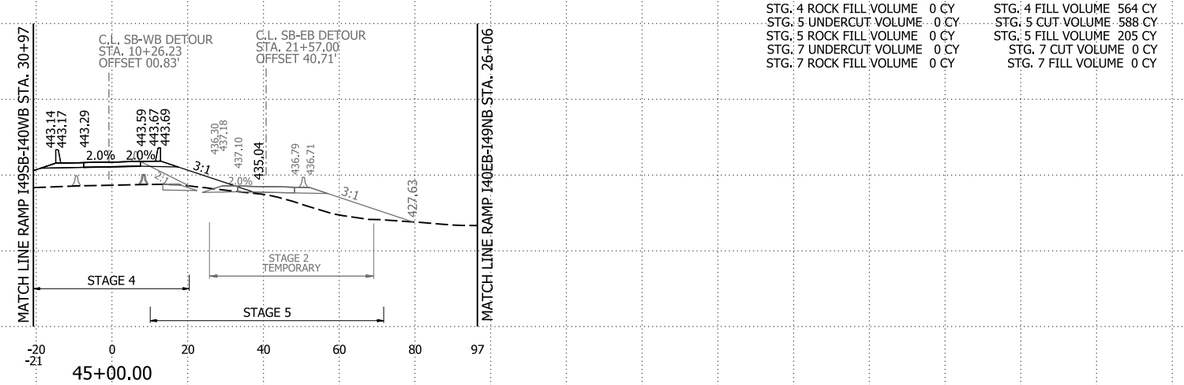
46+00.00

STG. 2 AREA CUT 4 SF
STG. 2 AREA FILL 109 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 11 SF
STG. 4 AREA FILL 187 SF
STG. 5 AREA CUT 152 SF
STG. 5 AREA FILL 66 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 15 CY
STG. 2 FILL VOLUME 426 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 21 CY
STG. 4 FILL VOLUME 564 CY
STG. 5 CUT VOLUME 588 CY
STG. 5 FILL VOLUME 205 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



45+00.00

RAMP I49SB-I40EB STA. 45+00 TO STA. 47+00

9/3/2026 2:24:32 PM
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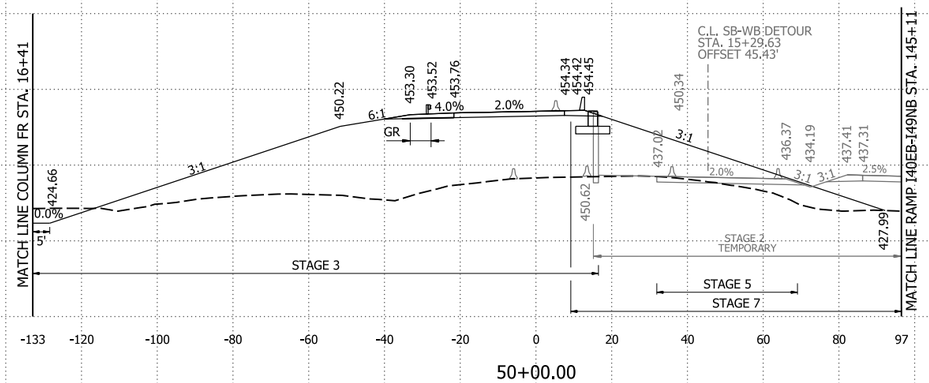
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	667	742
		CROSS SECTIONS				

STG. 2 AREA CUT 16 SF
STG. 2 AREA FILL 236 SF
STG. 3 AREA CUT 41 SF
STG. 3 AREA FILL 1765 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 55 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 144 SF
STG. 7 AREA FILL 462 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 59 CY
STG. 2 FILL VOLUME 865 CY
STG. 3 CUT VOLUME 120 CY
STG. 3 FILL VOLUME 6228 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 204 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 497 CY
STG. 7 FILL VOLUME 1517 CY



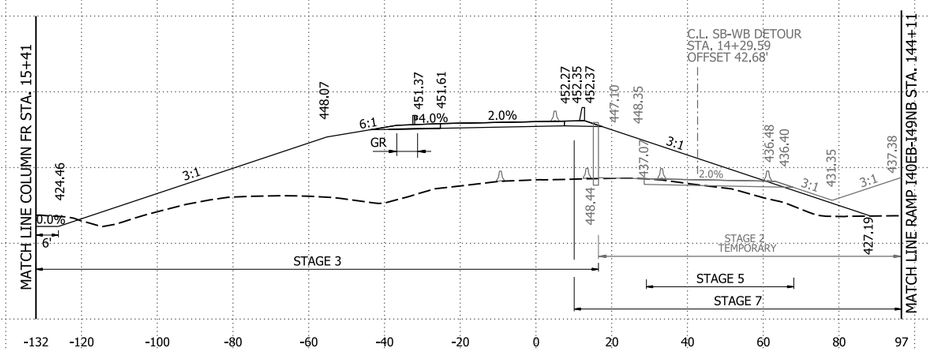
50+00.00

STG. 2 AREA CUT 16 SF
STG. 2 AREA FILL 231 SF
STG. 3 AREA CUT 25 SF
STG. 3 AREA FILL 1598 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 56 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 124 SF
STG. 7 AREA FILL 357 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 47 CY
STG. 2 FILL VOLUME 695 CY
STG. 3 CUT VOLUME 61 CY
STG. 3 FILL VOLUME 5497 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 309 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 232 CY
STG. 7 FILL VOLUME 1148 CY



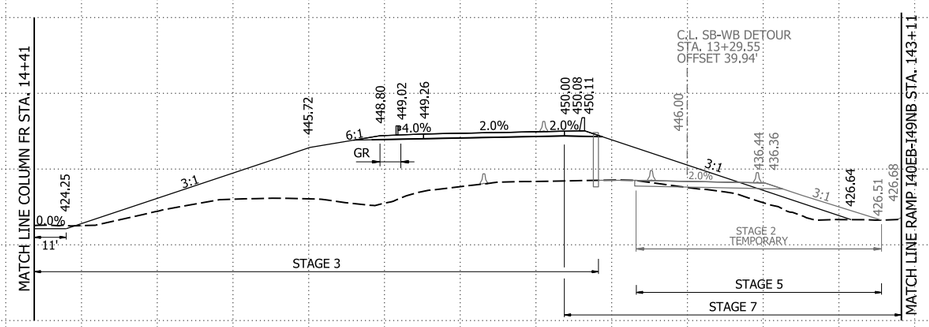
49+00.00

STG. 2 AREA CUT 10 SF
STG. 2 AREA FILL 144 SF
STG. 3 AREA CUT 8 SF
STG. 3 AREA FILL 1370 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 111 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 1 SF
STG. 7 AREA FILL 263 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 40 CY
STG. 2 FILL VOLUME 481 CY
STG. 3 CUT VOLUME 31 CY
STG. 3 FILL VOLUME 4368 CY
STG. 4 CUT VOLUME 21 CY
STG. 4 FILL VOLUME 406 CY
STG. 5 CUT VOLUME 436 CY
STG. 5 FILL VOLUME 262 CY
STG. 7 CUT VOLUME 3 CY
STG. 7 FILL VOLUME 487 CY



48+00.00

RAMP I49SB-I40EB STA. 48+00 TO STA. 50+00

4/30/2026 8:15:42 AM
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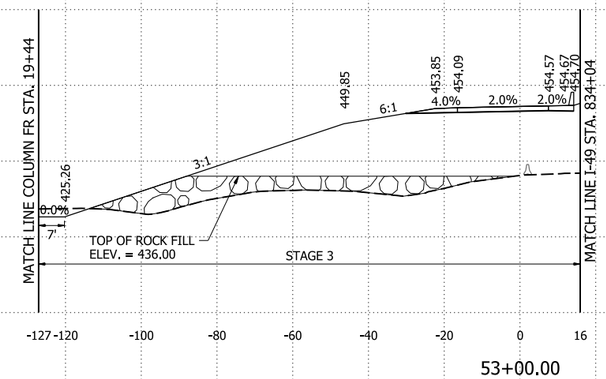
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	668	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 22 SF
STG. 3 AREA FILL 1304 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 461 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF



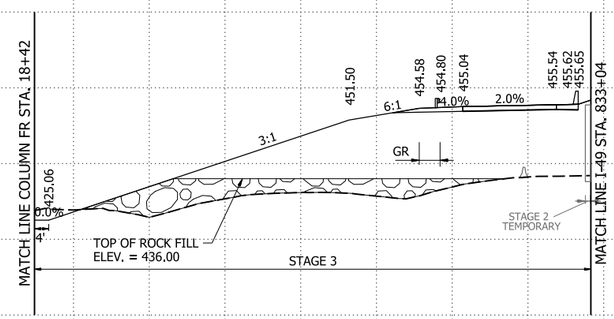
53+00.00

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 1718 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 83 CY
STG. 3 FILL VOLUME 5123 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 22 SF
STG. 3 AREA FILL 1454 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 467
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF



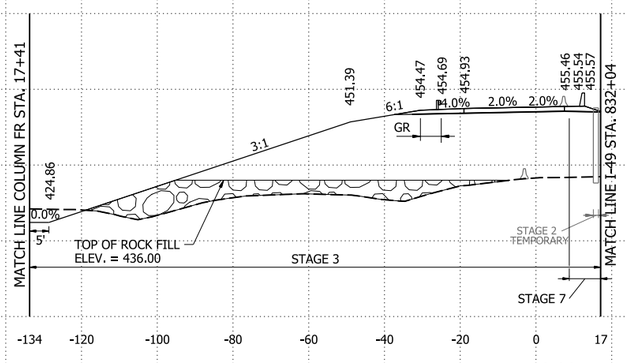
52+00.00

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 1726 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 107 CY
STG. 3 FILL VOLUME 5410 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 3 CY
STG. 7 FILL VOLUME 18 CY

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 35 SF
STG. 3 AREA FILL 1468 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 1 SF
STG. 7 AREA FILL 10 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 465 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF



51+00.00

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 431 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 29 CY
STG. 2 FILL VOLUME 438 CY
STG. 3 CUT VOLUME 140 CY
STG. 3 FILL VOLUME 5987 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 101 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 270 CY
STG. 7 FILL VOLUME 874 CY

RAMP I49SB-I40EB STA. 51+00 TO STA. 53+00

4/30/2026 8:15:43 AM
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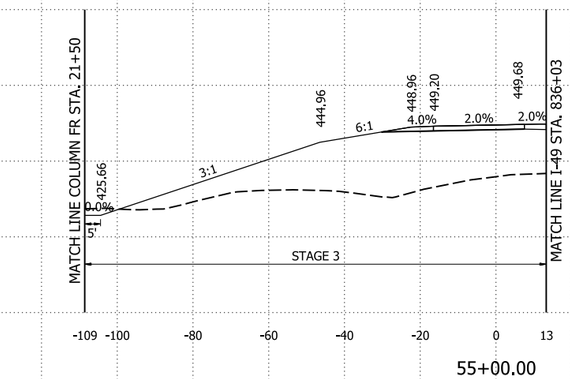
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	669	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 12 SF
STG. 3 AREA FILL 1160 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF



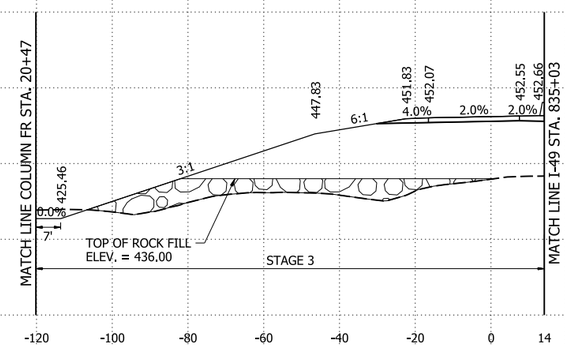
55+00.00

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 501 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 66 CY
STG. 3 FILL VOLUME 4149 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 24 SF
STG. 3 AREA FILL 1081 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 416 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF



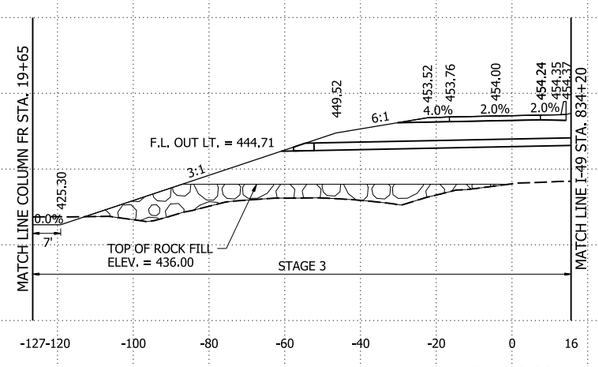
54+00.00

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 1265 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 68 CY
STG. 3 FILL VOLUME 3475 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 22 SF
STG. 3 AREA FILL 1274 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 442 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF



53+20.33

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 340 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 17 CY
STG. 3 FILL VOLUME 974 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

RAMP I49SB-I40EB STA. 53+20.33 TO STA. 55+00

4/30/2026 8:15:43 AM
R040904_22_CX.dgn

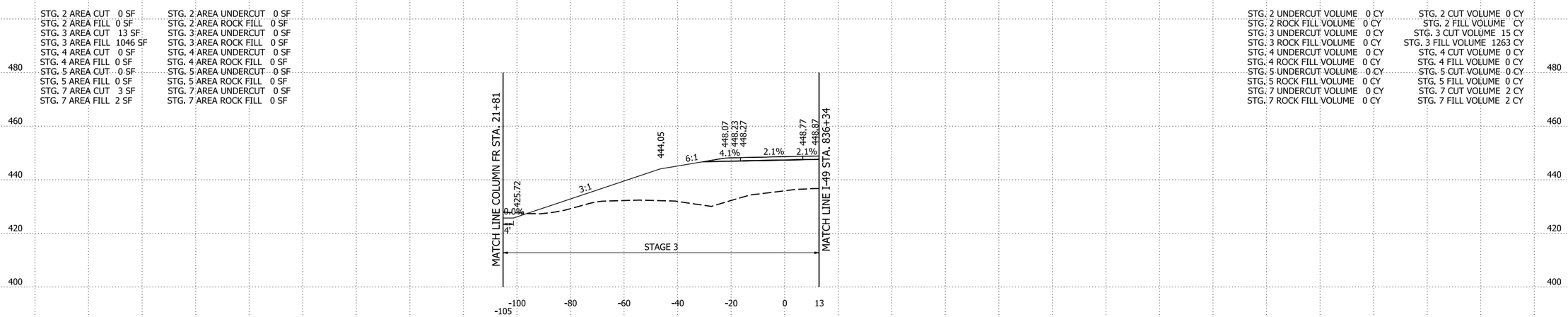
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	670	742
		CROSS SECTIONS				

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 13 SF
STG. 3 AREA FILL 1046 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 7 AREA CUT 3 SF
STG. 7 AREA FILL 2 SF

STG. 2 AREA UNDERCUT 0 SF
STG. 2 AREA ROCK FILL 0 SF
STG. 3 AREA UNDERCUT 0 SF
STG. 3 AREA ROCK FILL 0 SF
STG. 4 AREA UNDERCUT 0 SF
STG. 4 AREA ROCK FILL 0 SF
STG. 5 AREA UNDERCUT 0 SF
STG. 5 AREA ROCK FILL 0 SF
STG. 7 AREA UNDERCUT 0 SF
STG. 7 AREA ROCK FILL 0 SF

STG. 2 UNDERCUT VOLUME 0 CY
STG. 2 ROCK FILL VOLUME 0 CY
STG. 3 UNDERCUT VOLUME 0 CY
STG. 3 ROCK FILL VOLUME 0 CY
STG. 4 UNDERCUT VOLUME 0 CY
STG. 4 ROCK FILL VOLUME 0 CY
STG. 5 UNDERCUT VOLUME 0 CY
STG. 5 ROCK FILL VOLUME 0 CY
STG. 7 UNDERCUT VOLUME 0 CY
STG. 7 ROCK FILL VOLUME 0 CY

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME CY
STG. 3 CUT VOLUME 15 CY
STG. 3 FILL VOLUME 1263 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 2 CY
STG. 7 FILL VOLUME 2 CY



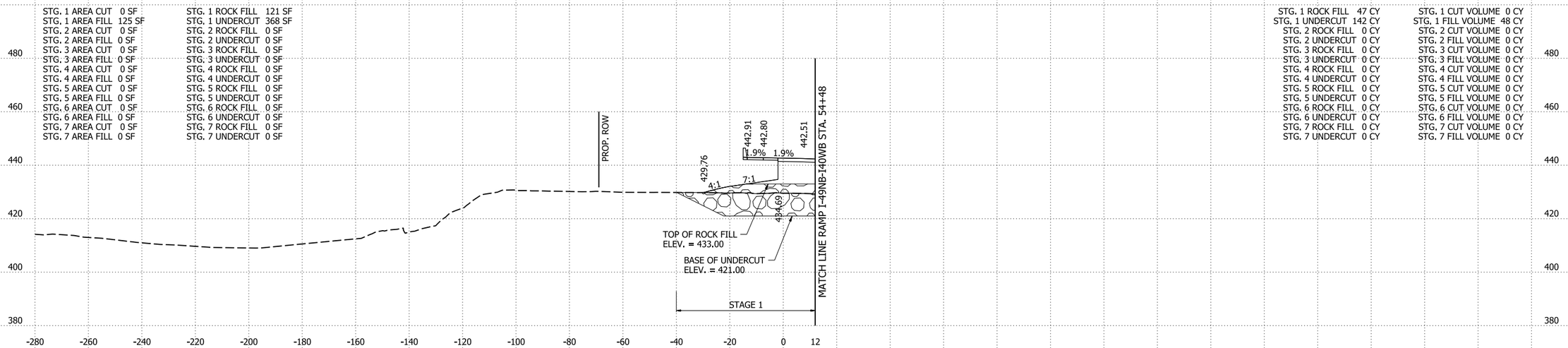
RAMP I49SB-I40EB STA. 55+30.91 TO STA. 55+30.91

4/30/2026 8:15:44 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	671	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 121 SF
STG. 1 AREA FILL 125 SF	STG. 1 UNDERCUT 368 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

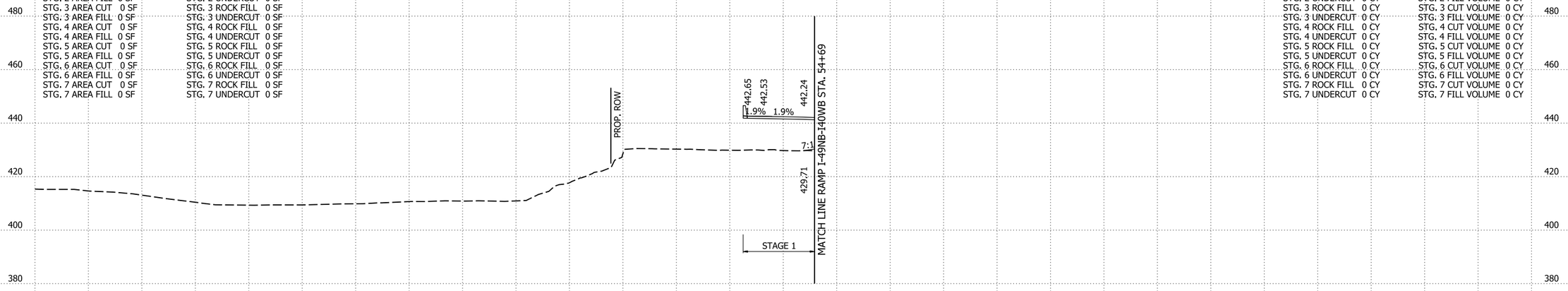
STG. 1 ROCK FILL 47 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 142 CY	STG. 1 FILL VOLUME 48 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



14+81.62
BEGIN BRIDGE 07694

STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 1 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



14+60.71
BRIDGE 07694 TOE OF SLOPE

RAMP I49SB-I40WB STA. 14+60.71 TO STA. 14+81.62

4/30/2026 8:15:44 AM
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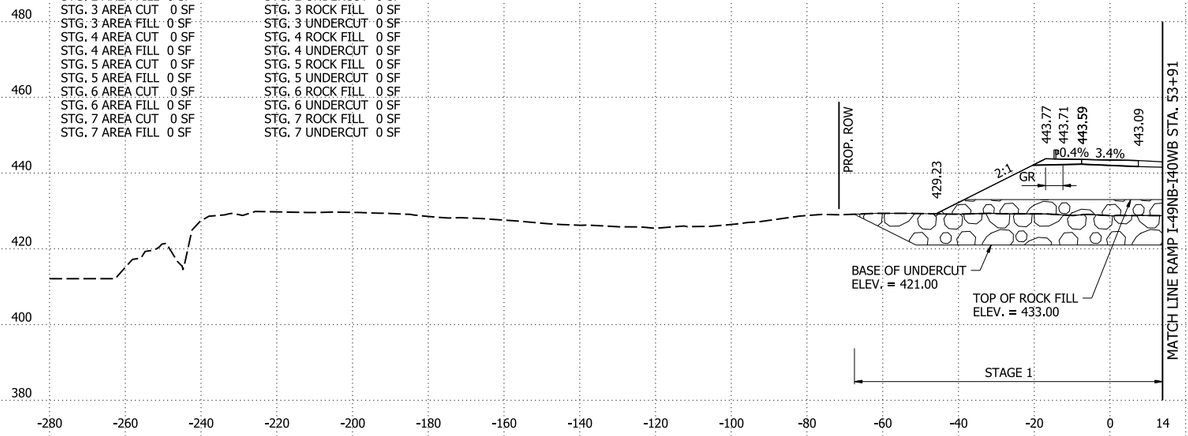
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	672	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 222 SF
STG. 1 AREA FILL 391 SF	STG. 1 UNDERCUT 595 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

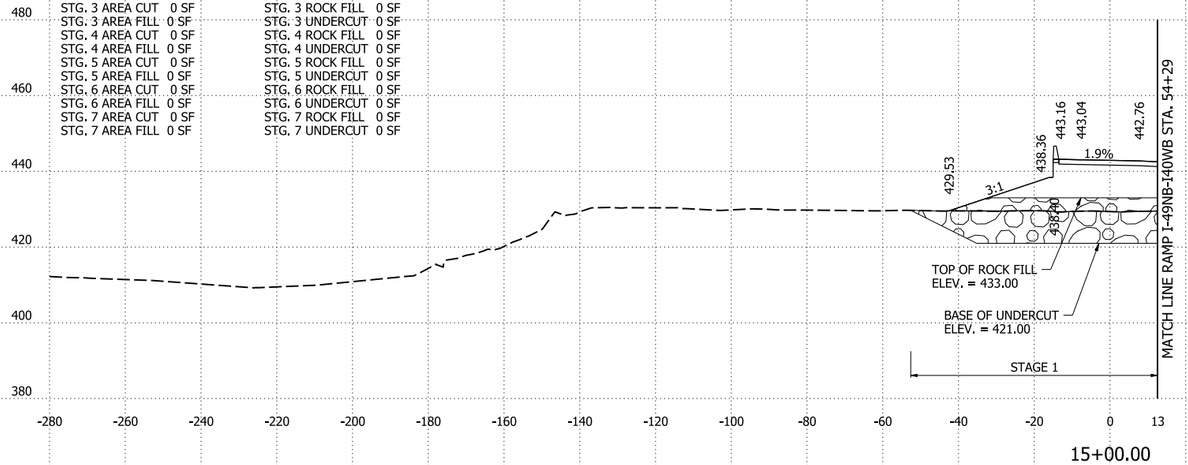
STG. 1 ROCK FILL 283 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 762 CY	STG. 1 FILL VOLUME 483 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



15+38.37
BEGIN RAMP I49SB-I40WB

STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 176 SF
STG. 1 AREA FILL 288 SF	STG. 1 UNDERCUT 478 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 101 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 288 CY	STG. 1 FILL VOLUME 141 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



15+00.00

RAMP I49SB-I40WB STA. 15+00 TO STA. 15+38.37

4/30/2026 8:15:44 AM
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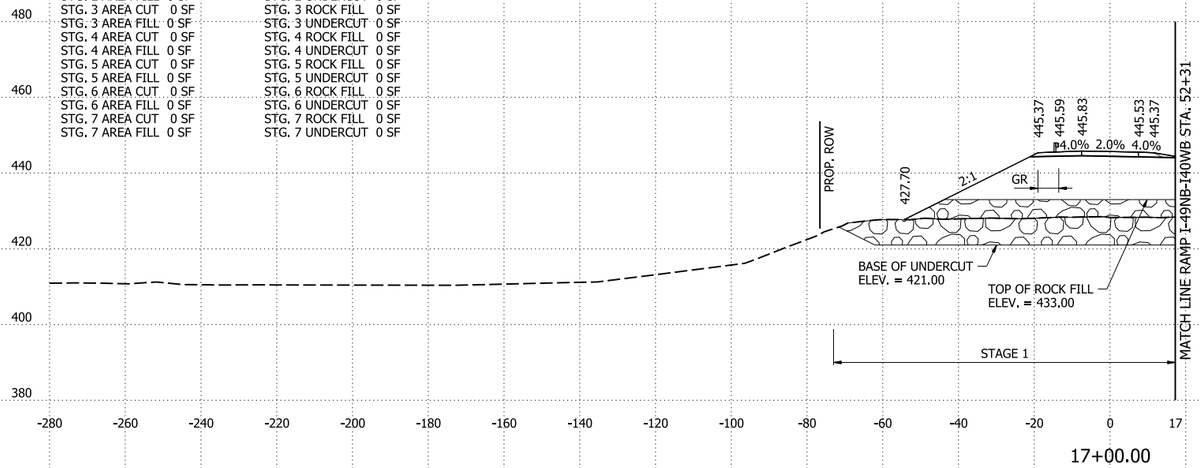
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	673	742
		CROSS SECTIONS				

STG. 1 AREA CUT 6 SF	STG. 1 ROCK FILL 319 SF
STG. 1 AREA FILL 564 SF	STG. 1 UNDERCUT 597 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

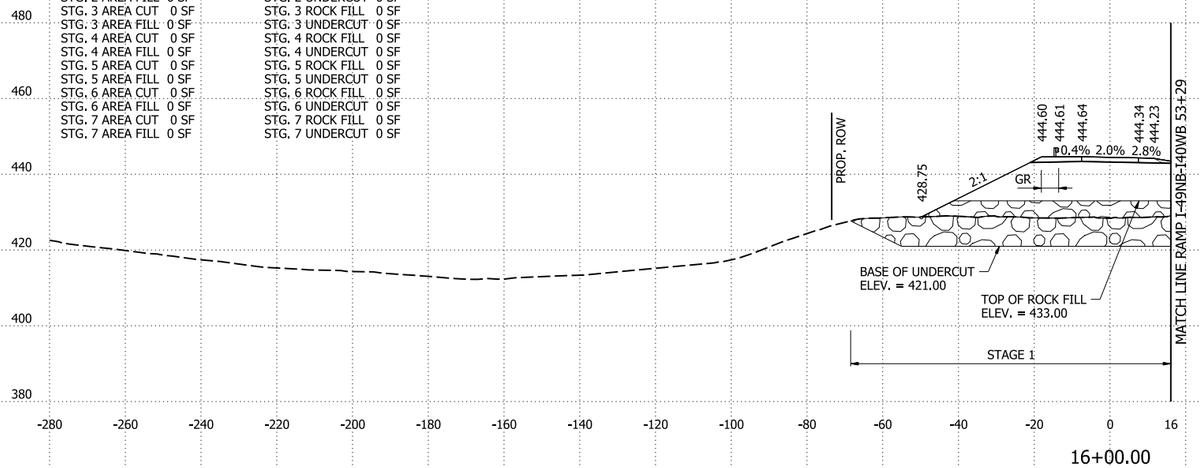
STG. 1 ROCK FILL 1083 CY	STG. 1 CUT VOLUME 22 CY
STG. 1 UNDERCUT 2219 CY	STG. 1 FILL VOLUME 1935 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



17+00.00

STG. 1 AREA CUT 6 SF	STG. 1 ROCK FILL 266 SF
STG. 1 AREA FILL 481 SF	STG. 1 UNDERCUT 601 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 557 CY	STG. 1 CUT VOLUME 11 CY
STG. 1 UNDERCUT 1365 CY	STG. 1 FILL VOLUME 995 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



16+00.00

RAMP I49SB-I40WB STA. 16+00 TO STA. 17+00

4/30/2026 8:16:18 AM
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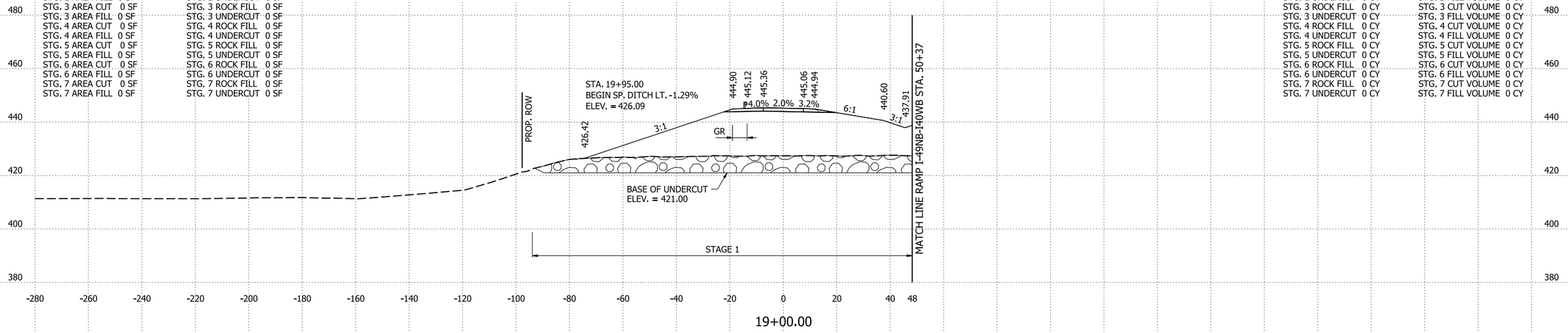
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	674	742
		CROSS SECTIONS				

STG. 1 AREA CUT 6 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 1338 SF	STG. 1 UNDERCUT 833 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

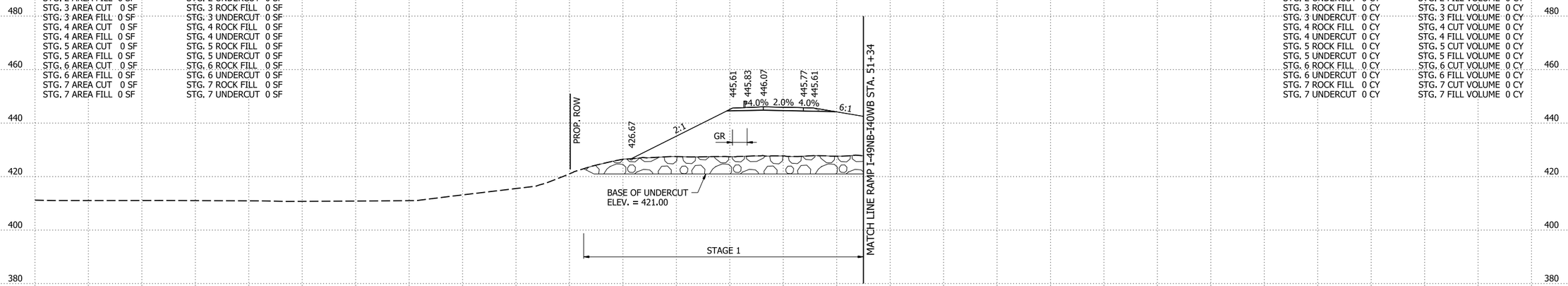
STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 22 CY
STG. 1 UNDERCUT 2722 CY	STG. 1 FILL VOLUME 4913 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



19+00.00

STG. 1 AREA CUT 6 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 1149 SF	STG. 1 UNDERCUT 637 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 591 CY	STG. 1 CUT VOLUME 22 CY
STG. 1 UNDERCUT 2285 CY	STG. 1 FILL VOLUME 3172 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY



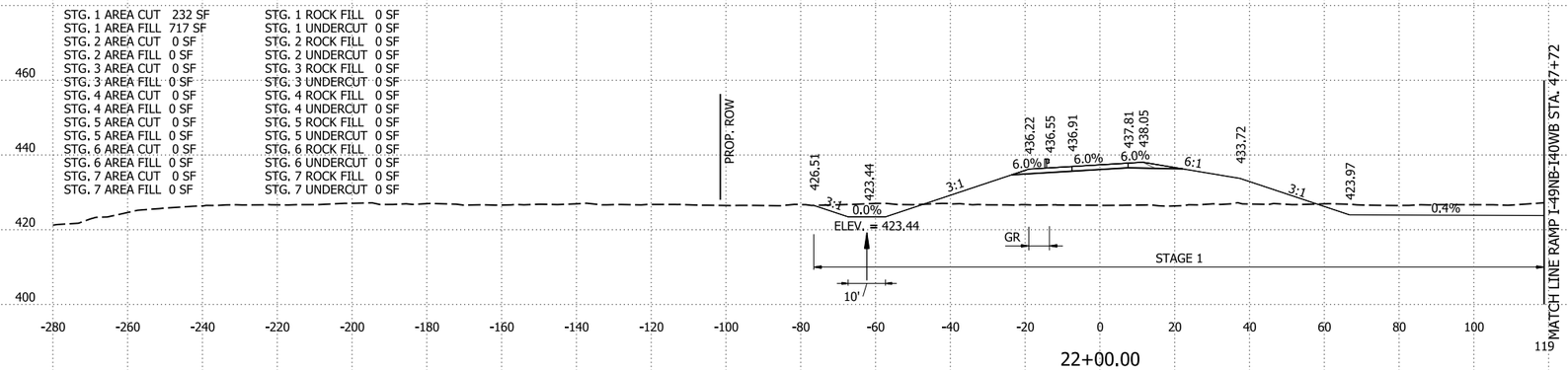
18+00.00

RAMP I49SB-I40WB STA. 18+00 TO STA. 19+00

4/30/2026 8:16:19 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	675	742
		CROSS SECTIONS				

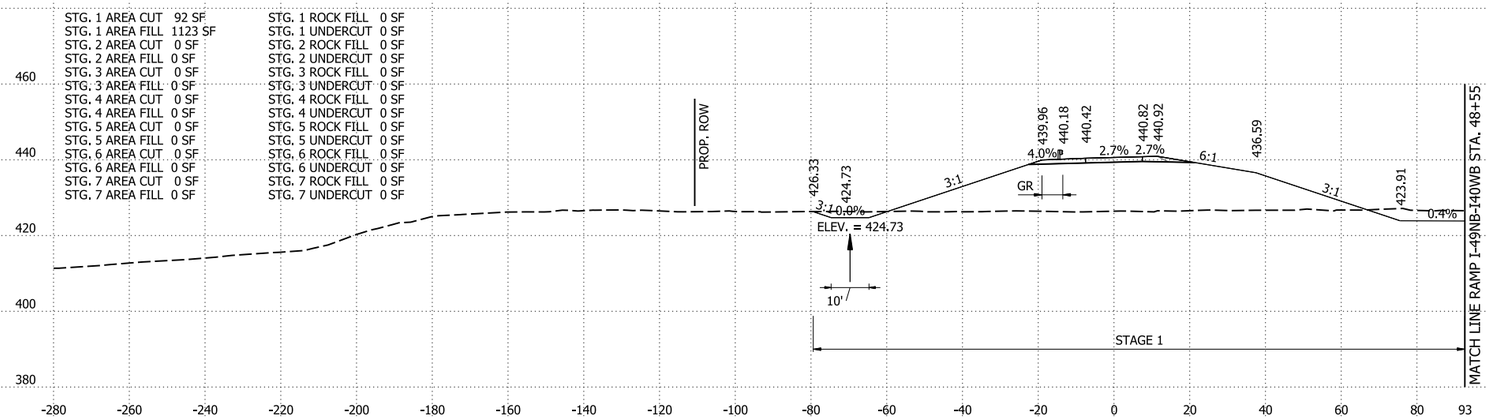
STG. 1 AREA CUT 232 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 717 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF



22+00.00

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 601 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 3407 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY

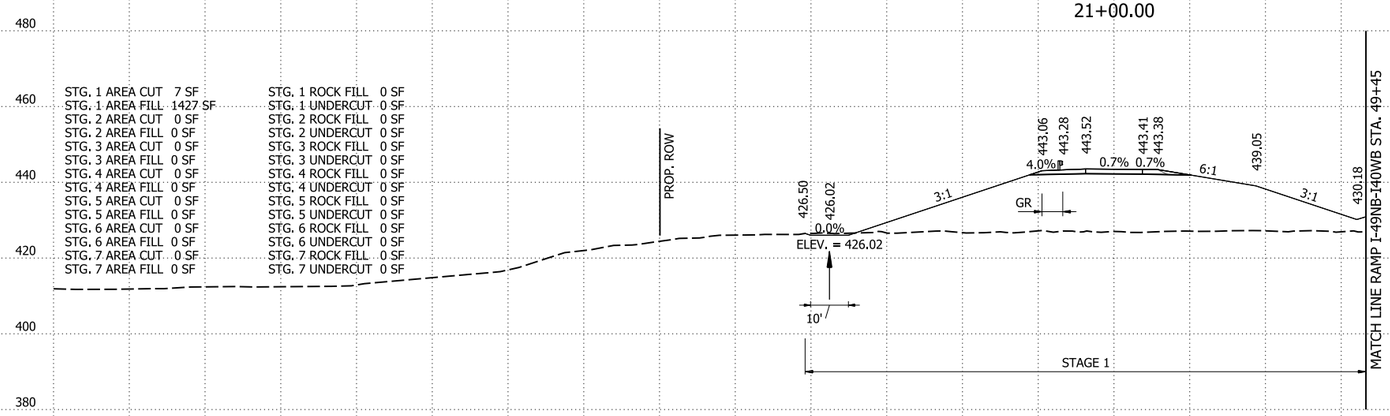
STG. 1 AREA CUT 92 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 1123 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF



21+00.00

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 184 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 4722 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY

STG. 1 AREA CUT 7 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 1427 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 0 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF



20+00.00

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 24 CY
STG. 1 UNDERCUT 1543 CY	STG. 1 FILL VOLUME 5428 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 0 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY

RAMP I49SB-I40WB STA. 20+00 TO STA. 22+00

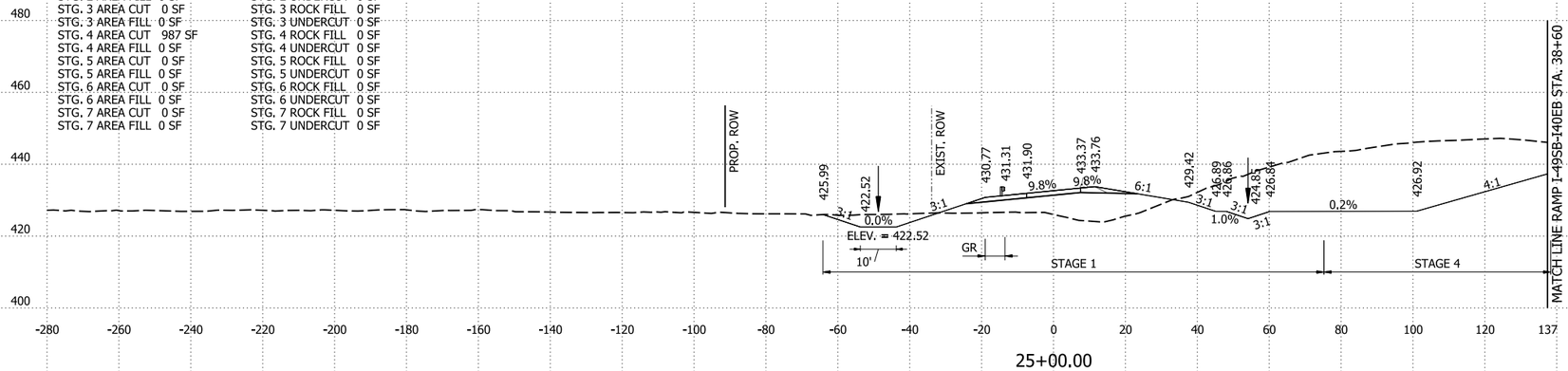
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	676	742
		CROSS SECTIONS				

STG. 1 AREA CUT 490 SF
STG. 1 AREA FILL 291 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 987 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1819 CY
STG. 1 FILL VOLUME 1244 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 5658 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



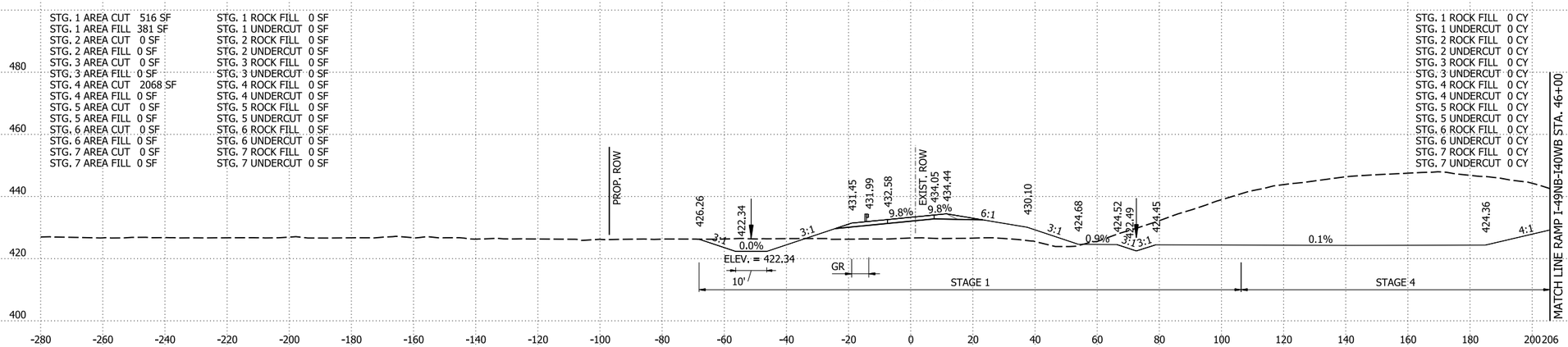
25+00.00

STG. 1 AREA CUT 516 SF
STG. 1 AREA FILL 381 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 2068 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1889 CY
STG. 1 FILL VOLUME 1566 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



24+00.00

STA. 23+00.00 CONSTRUCT
DBL. 30" X 98' R.C. PIPE CULVERT
(CLASS III)(TYPE 3 BEDDING)
WITH FES LT. & RT.
Q50 = 61.70 CFS D.A. = 52.32 ACRES
30" R.C. PIPE = 196 LIN. FT.
30" FES = 4 EACH
DUMPED RIPRAP LT. & RT. = 81 CU. YDS.

STG. 1 AREA CUT 504 SF
STG. 1 AREA FILL 464 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1363 CY
STG. 1 FILL VOLUME 2187 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 6 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
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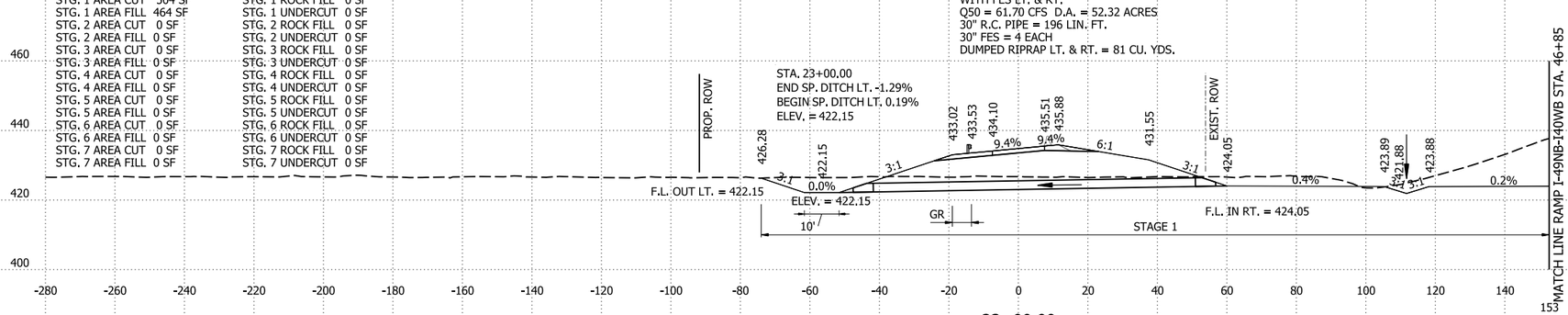
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



23+00.00

RAMP I49SB-I40WB STA. 23+00 TO STA. 25+00

9/3/2026 2:24:37 PM
R040904_22_CX.dgn

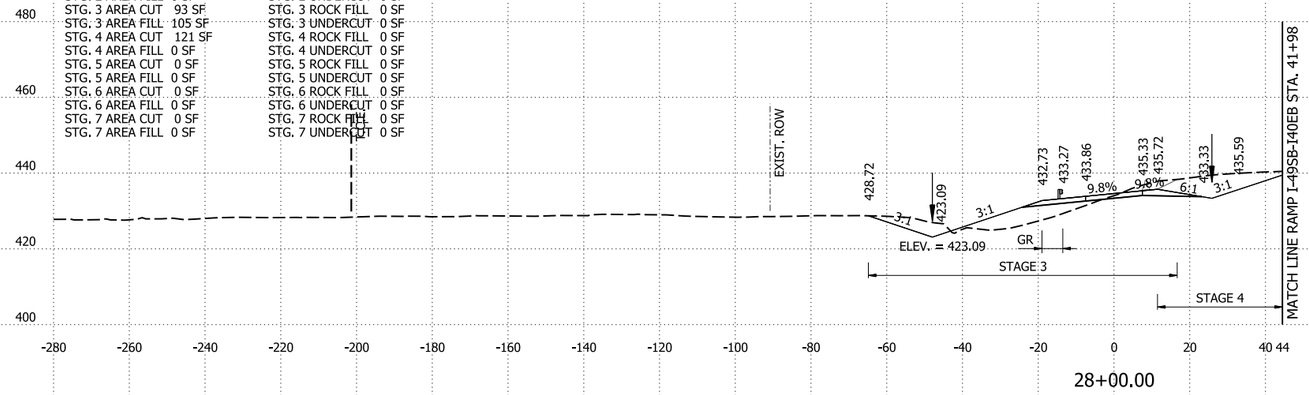
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	677	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 93 SF
STG. 3 AREA FILL 105 SF
STG. 4 AREA CUT 121 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 496 CY
STG. 3 FILL VOLUME 343 CY
STG. 4 CUT VOLUME 907 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



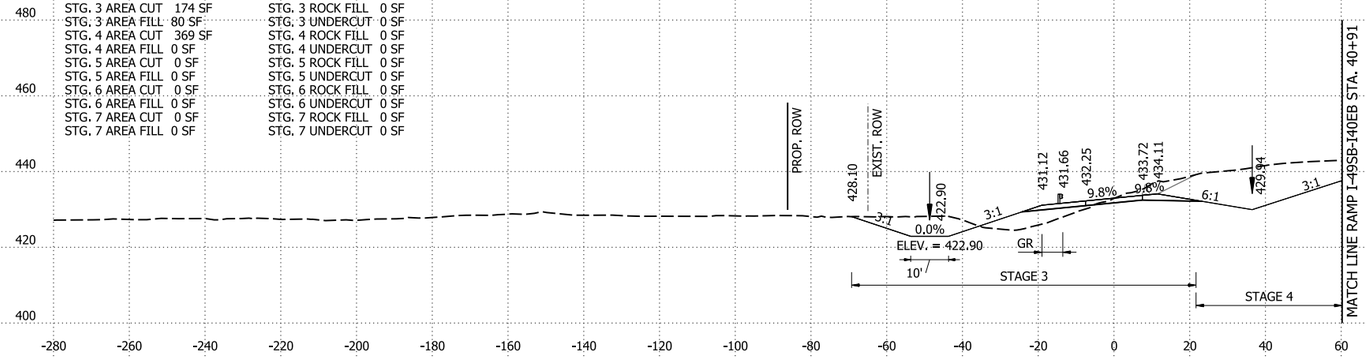
28+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 174 SF
STG. 3 AREA FILL 80 SF
STG. 4 AREA CUT 369 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 911 CY
STG. 1 FILL VOLUME 265 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 1398 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



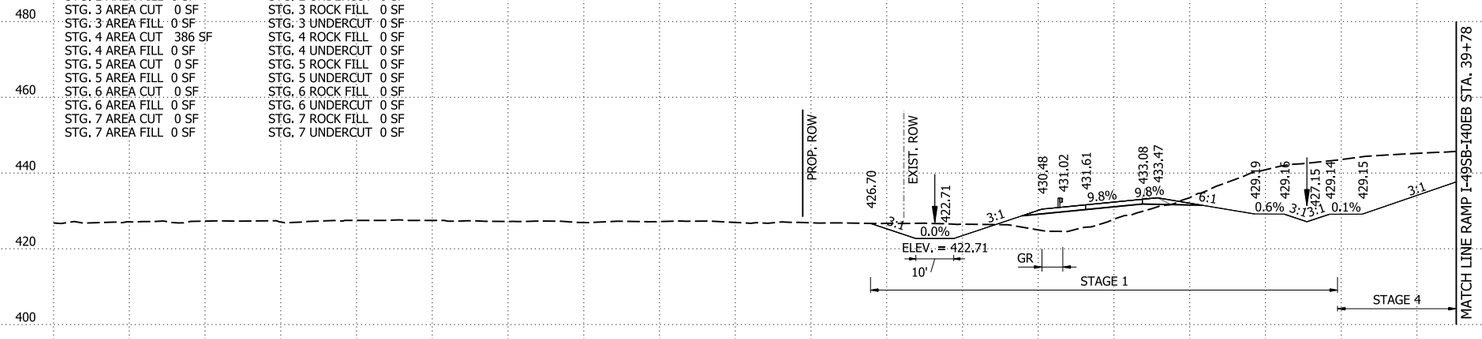
27+00.00

STG. 1 AREA CUT 492 SF
STG. 1 AREA FILL 143 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 386 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 1837 CY
STG. 1 FILL VOLUME 803 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 2542 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY



26+00.00

RAMP I49SB-I40WB STA. 26+00 TO STA. 28+00

4/30/2026 8:16:20 AM
R040904_22_CX.dgn

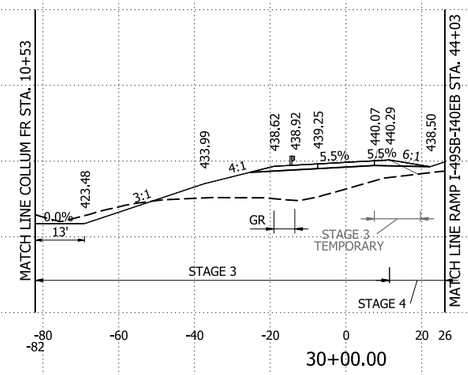
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	678	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 174 SF
STG. 2 AREA FILL 80 SF
STG. 3 AREA CUT 41 SF
STG. 3 AREA FILL 336 SF
STG. 4 AREA CUT 8 SF
STG. 4 AREA FILL 18 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 207 CY
STG. 3 FILL VOLUME 922 CY
STG. 4 CUT VOLUME 56 CY
STG. 4 FILL VOLUME 33 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

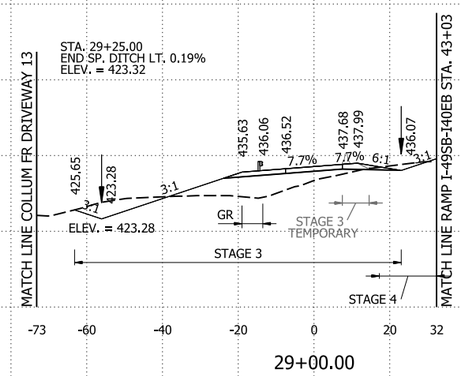


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 71 SF
STG. 3 AREA FILL 162 SF
STG. 4 AREA CUT 22 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 240 CY
STG. 3 FILL VOLUME 341 CY
STG. 4 CUT VOLUME 121 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

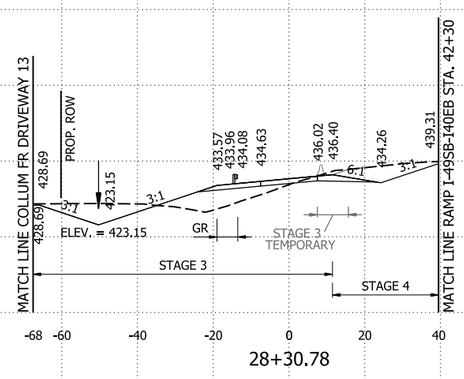


STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 116 SF
STG. 3 AREA FILL 104 SF
STG. 4 AREA CUT 72 SF
STG. 4 AREA FILL 0 SF
STG. 5 AREA CUT 0 SF
STG. 5 AREA FILL 0 SF
STG. 6 AREA CUT 0 SF
STG. 6 AREA FILL 0 SF
STG. 7 AREA CUT 0 SF
STG. 7 AREA FILL 0 SF

STG. 1 ROCK FILL 0 SF
STG. 1 UNDERCUT 0 SF
STG. 2 ROCK FILL 0 SF
STG. 2 UNDERCUT 0 SF
STG. 3 ROCK FILL 0 SF
STG. 3 UNDERCUT 0 SF
STG. 4 ROCK FILL 0 SF
STG. 4 UNDERCUT 0 SF
STG. 5 ROCK FILL 0 SF
STG. 5 UNDERCUT 0 SF
STG. 6 ROCK FILL 0 SF
STG. 6 UNDERCUT 0 SF
STG. 7 ROCK FILL 0 SF
STG. 7 UNDERCUT 0 SF

STG. 1 ROCK FILL 0 CY
STG. 1 UNDERCUT 0 CY
STG. 2 ROCK FILL 0 CY
STG. 2 UNDERCUT 0 CY
STG. 3 ROCK FILL 0 CY
STG. 3 UNDERCUT 0 CY
STG. 4 ROCK FILL 0 CY
STG. 4 UNDERCUT 0 CY
STG. 5 ROCK FILL 0 CY
STG. 5 UNDERCUT 0 CY
STG. 6 ROCK FILL 0 CY
STG. 6 UNDERCUT 0 CY
STG. 7 ROCK FILL 0 CY
STG. 7 UNDERCUT 0 CY

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 120 CY
STG. 3 FILL VOLUME 119 CY
STG. 4 CUT VOLUME 110 CY
STG. 4 FILL VOLUME 0 CY
STG. 5 CUT VOLUME 0 CY
STG. 5 FILL VOLUME 0 CY
STG. 6 CUT VOLUME 0 CY
STG. 6 FILL VOLUME 0 CY
STG. 7 CUT VOLUME 0 CY
STG. 7 FILL VOLUME 0 CY

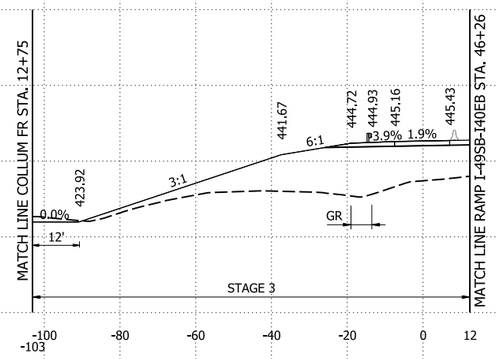


RAMP I49SB-I40WB STA. 28+30.78 TO STA. 30+00

4/30/2026 8:16:21 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	679	742
		CROSS SECTIONS				

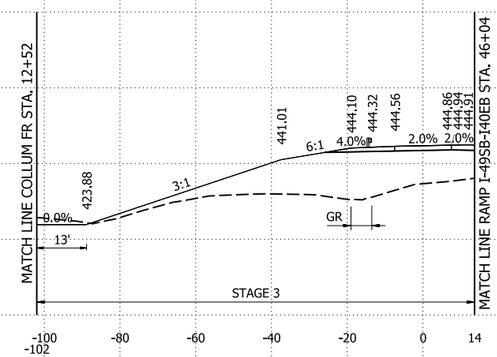
STG. 1 AREA CUT 12 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 19 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 700 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF



32+22.72
END RAMP I49SB-I40WB

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 12 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 15 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 0 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 582 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 0 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY

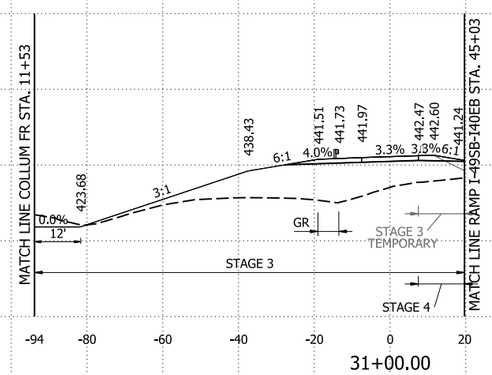
STG. 1 AREA CUT 17 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 16 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 0 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 668 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 0 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 0 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF



32+00.00

STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 31 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 29 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 44 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 2263 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 15 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 11 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY

STG. 1 AREA CUT 0 SF	STG. 1 ROCK FILL 0 SF
STG. 1 AREA FILL 0 SF	STG. 1 UNDERCUT 0 SF
STG. 2 AREA CUT 0 SF	STG. 2 ROCK FILL 0 SF
STG. 2 AREA FILL 0 SF	STG. 2 UNDERCUT 0 SF
STG. 3 AREA CUT 24 SF	STG. 3 ROCK FILL 0 SF
STG. 3 AREA FILL 538 SF	STG. 3 UNDERCUT 0 SF
STG. 4 AREA CUT 8 SF	STG. 4 ROCK FILL 0 SF
STG. 4 AREA FILL 6 SF	STG. 4 UNDERCUT 0 SF
STG. 5 AREA CUT 0 SF	STG. 5 ROCK FILL 0 SF
STG. 5 AREA FILL 0 SF	STG. 5 UNDERCUT 0 SF
STG. 6 AREA CUT 0 SF	STG. 6 ROCK FILL 0 SF
STG. 6 AREA FILL 0 SF	STG. 6 UNDERCUT 0 SF
STG. 7 AREA CUT 0 SF	STG. 7 ROCK FILL 0 SF
STG. 7 AREA FILL 0 SF	STG. 7 UNDERCUT 0 SF



31+00.00

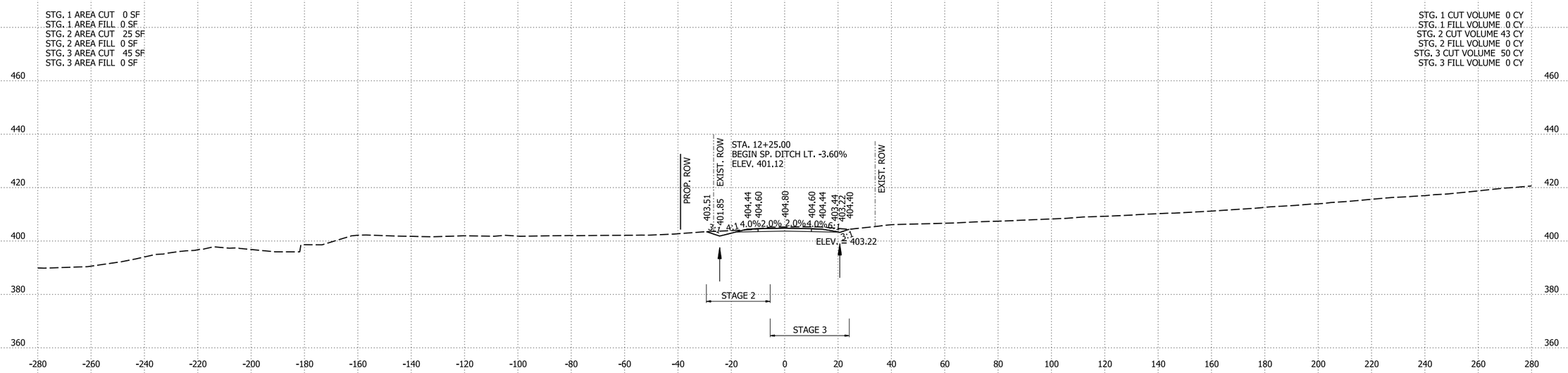
STG. 1 ROCK FILL 0 CY	STG. 1 CUT VOLUME 0 CY
STG. 1 UNDERCUT 0 CY	STG. 1 FILL VOLUME 0 CY
STG. 2 ROCK FILL 0 CY	STG. 2 CUT VOLUME 0 CY
STG. 2 UNDERCUT 0 CY	STG. 2 FILL VOLUME 0 CY
STG. 3 ROCK FILL 0 CY	STG. 3 CUT VOLUME 120 CY
STG. 3 UNDERCUT 0 CY	STG. 3 FILL VOLUME 30 CY
STG. 4 ROCK FILL 0 CY	STG. 4 CUT VOLUME 44 CY
STG. 4 UNDERCUT 0 CY	STG. 4 FILL VOLUME 0 CY
STG. 5 ROCK FILL 0 CY	STG. 5 CUT VOLUME 0 CY
STG. 5 UNDERCUT 0 CY	STG. 5 FILL VOLUME 0 CY
STG. 6 ROCK FILL 0 CY	STG. 6 CUT VOLUME 0 CY
STG. 6 UNDERCUT 0 CY	STG. 6 FILL VOLUME 0 CY
STG. 7 ROCK FILL 0 CY	STG. 7 CUT VOLUME 0 CY
STG. 7 UNDERCUT 0 CY	STG. 7 FILL VOLUME 0 CY

RAMP I49SB-I40WB STA. 31+00 TO STA. 32+22.72

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	680	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 25 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 45 SF
STG. 3 AREA FILL 0 SF

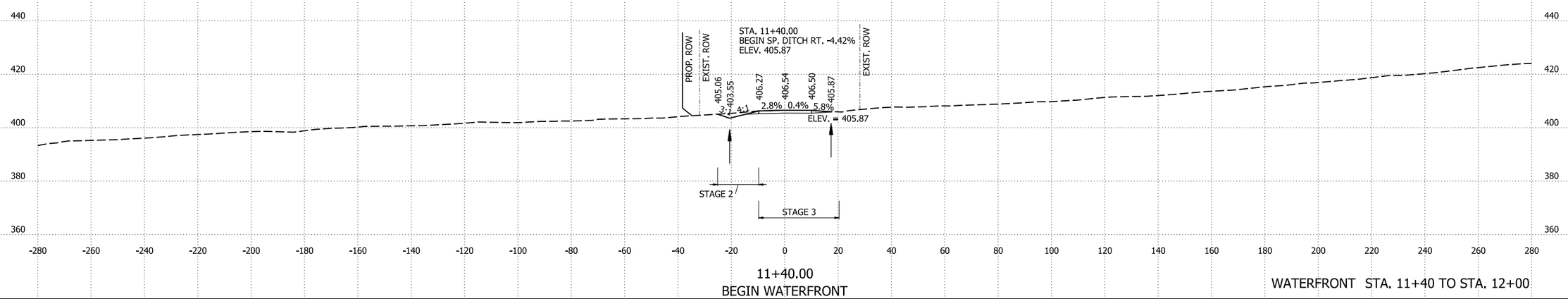
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 43 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 50 CY
STG. 3 FILL VOLUME 0 CY



12+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 14 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 1 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



11+40.00
BEGIN WATERFRONT

WATERFRONT STA. 11+40 TO STA. 12+00

4/30/2026 8:16:21 AM
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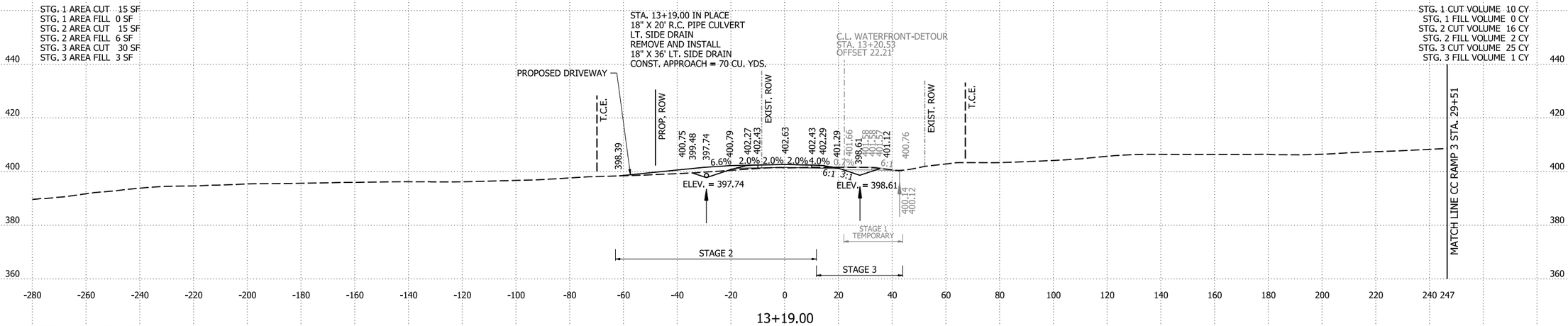
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	681	742
		CROSS SECTIONS				

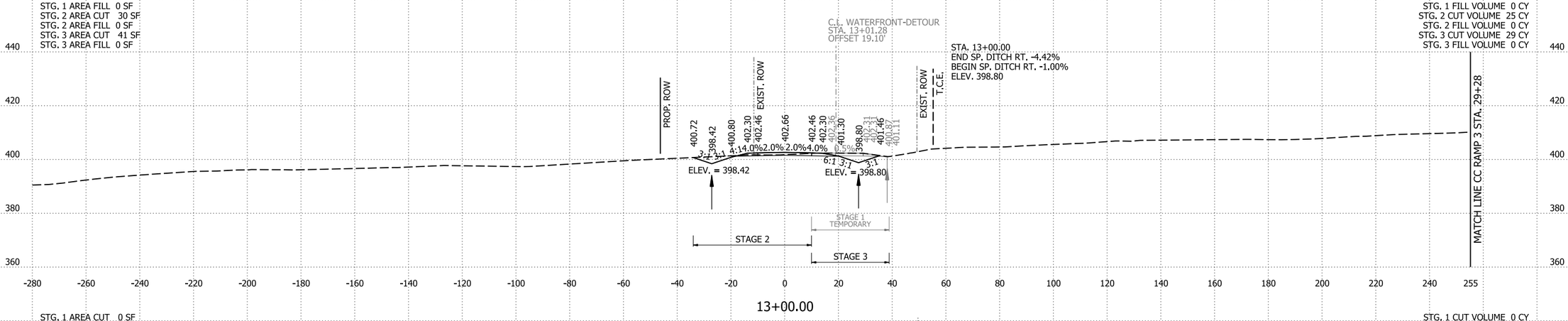
STG. 1 AREA CUT 15 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 15 SF
STG. 2 AREA FILL 6 SF
STG. 3 AREA CUT 30 SF
STG. 3 AREA FILL 3 SF

STG. 1 CUT VOLUME 10 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 16 CY
STG. 2 FILL VOLUME 2 CY
STG. 3 CUT VOLUME 25 CY
STG. 3 FILL VOLUME 1 CY



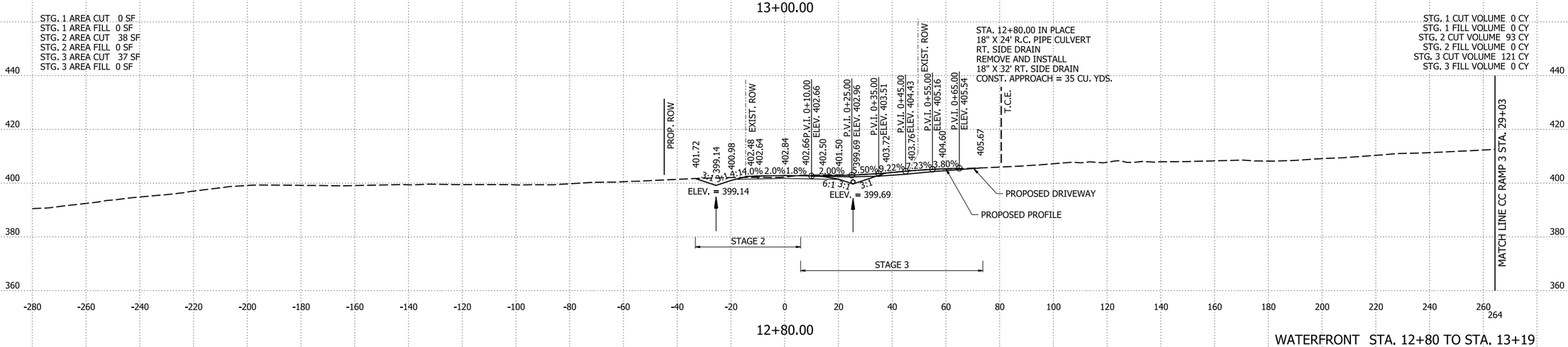
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 30 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 41 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 25 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 29 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 38 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 37 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 93 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 121 CY
STG. 3 FILL VOLUME 0 CY



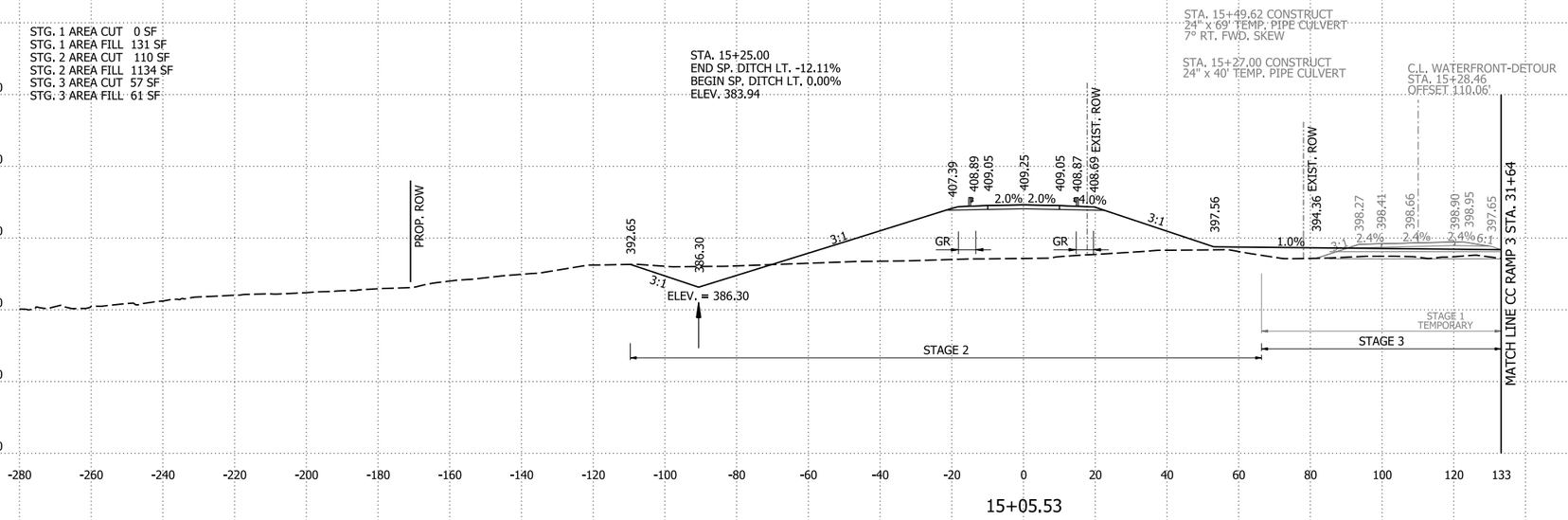
WATERFRONT STA. 12+80 TO STA. 13+19

4/30/2026 8:16:22 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	682	742
		CROSS SECTIONS				

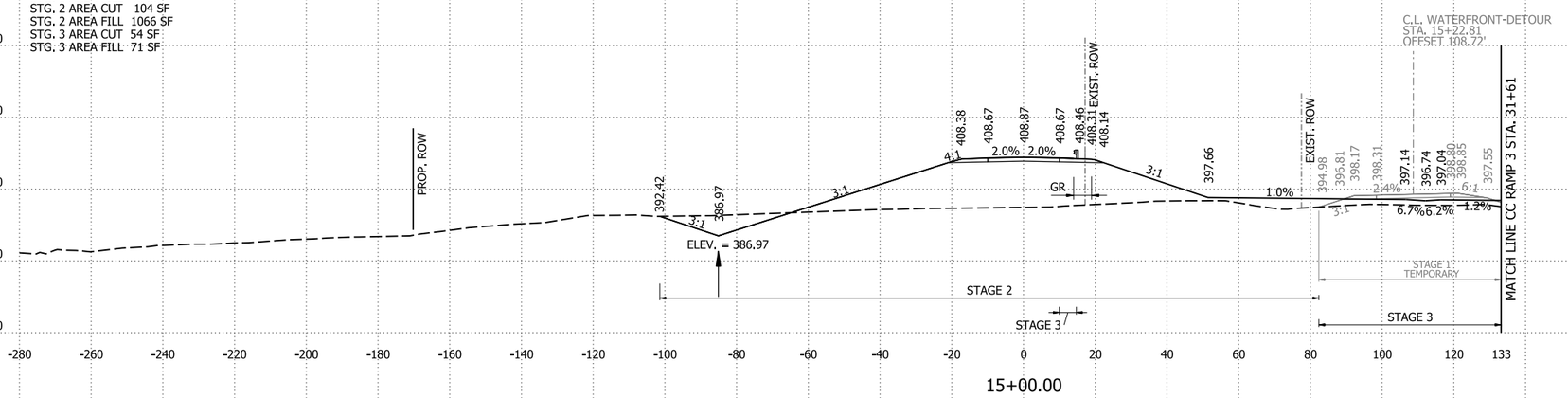
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 131 SF
STG. 2 AREA CUT 110 SF
STG. 2 AREA FILL 1134 SF
STG. 3 AREA CUT 57 SF
STG. 3 AREA FILL 61 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 23 CY
STG. 2 CUT VOLUME 22 CY
STG. 2 FILL VOLUME 225 CY
STG. 3 CUT VOLUME 11 CY
STG. 3 FILL VOLUME 14 CY



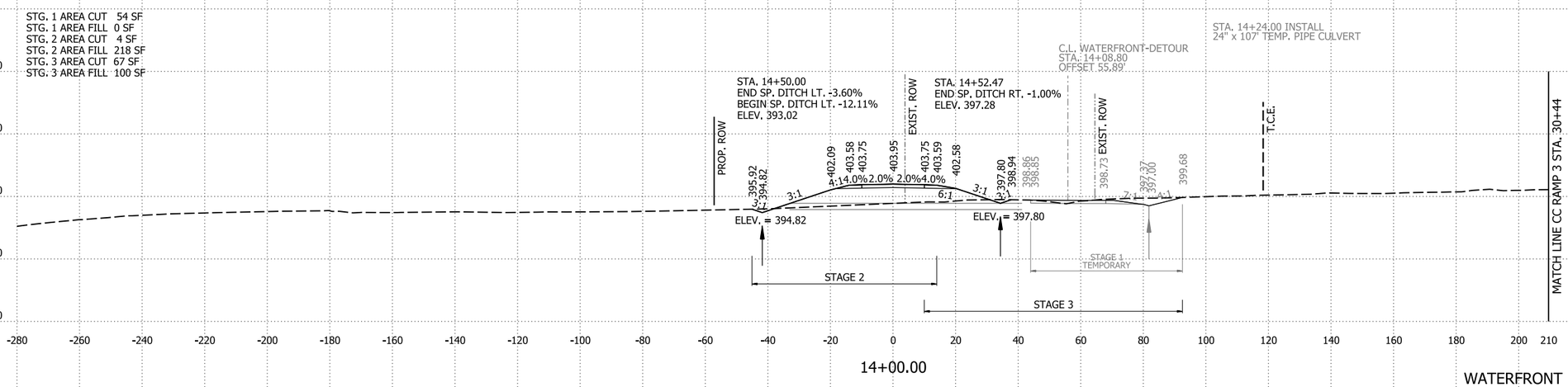
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 90 SF
STG. 2 AREA CUT 104 SF
STG. 2 AREA FILL 1066 SF
STG. 3 AREA CUT 54 SF
STG. 3 AREA FILL 71 SF

STG. 1 CUT VOLUME 99 CY
STG. 1 FILL VOLUME 167 CY
STG. 2 CUT VOLUME 200 CY
STG. 2 FILL VOLUME 2378 CY
STG. 3 CUT VOLUME 224 CY
STG. 3 FILL VOLUME 317 CY



STG. 1 AREA CUT 54 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 4 SF
STG. 2 AREA FILL 218 SF
STG. 3 AREA CUT 67 SF
STG. 3 AREA FILL 100 SF

STG. 1 CUT VOLUME 103 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 28 CY
STG. 2 FILL VOLUME 335 CY
STG. 3 CUT VOLUME 145 CY
STG. 3 FILL VOLUME 155 CY



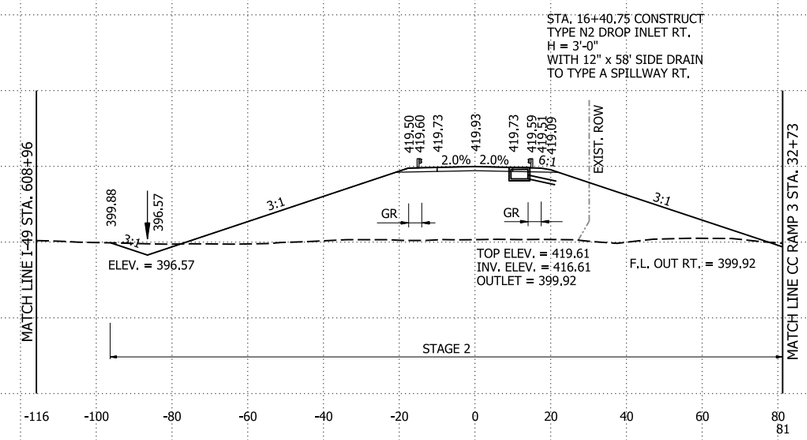
WATERFRONT STA. 14+00 TO STA. 15+05.53

4/30/2026 8:16:22 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	683	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 29 SF
STG. 2 AREA FILL 1764 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

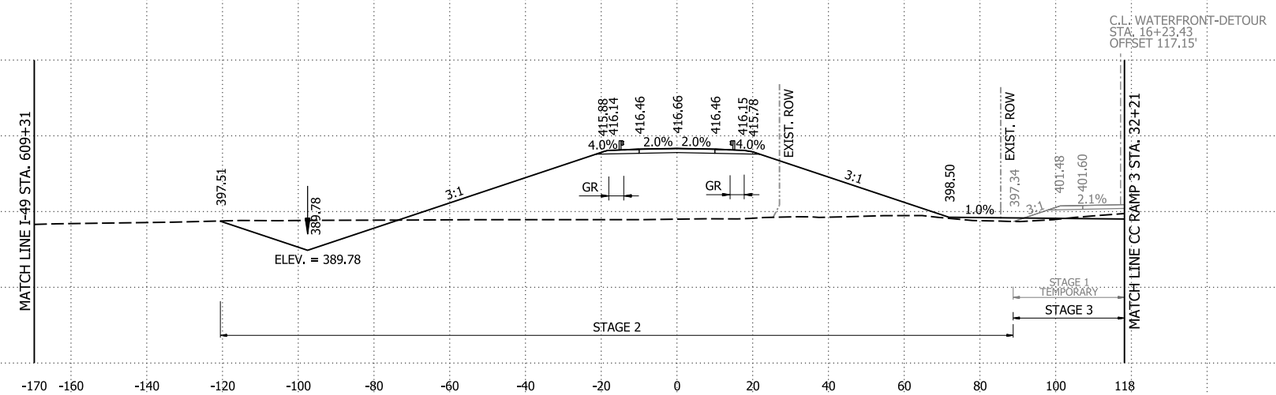
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 39 CY
STG. 2 CUT VOLUME 162 CY
STG. 2 FILL VOLUME 2552 CY
STG. 3 CUT VOLUME 57 CY
STG. 3 FILL VOLUME 1 CY



16+40.75

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 52 SF
STG. 2 AREA CUT 187 SF
STG. 2 AREA FILL 1618 SF
STG. 3 AREA CUT 76 SF
STG. 3 AREA FILL 1 SF

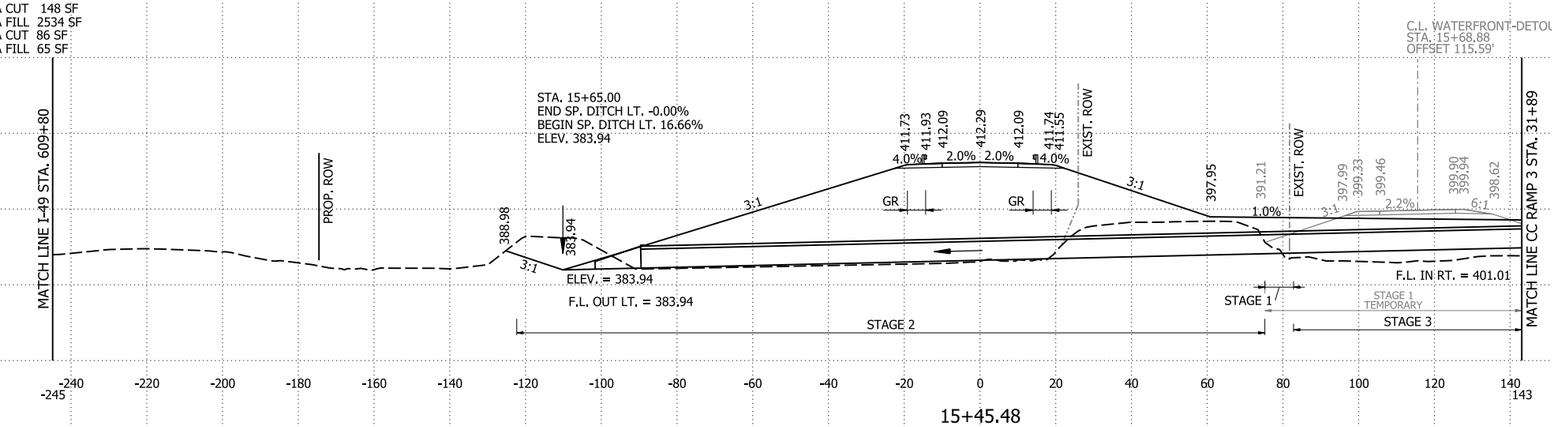
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 764 CY
STG. 2 CUT VOLUME 338 CY
STG. 2 FILL VOLUME 4192 CY
STG. 3 CUT VOLUME 164 CY
STG. 3 FILL VOLUME 67 CY



16+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 705 SF
STG. 2 AREA CUT 148 SF
STG. 2 AREA FILL 2534 SF
STG. 3 AREA CUT 86 SF
STG. 3 AREA FILL 65 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 618 CY
STG. 2 CUT VOLUME 191 CY
STG. 2 FILL VOLUME 2714 CY
STG. 3 CUT VOLUME 106 CY
STG. 3 FILL VOLUME 93 CY



15+45.48

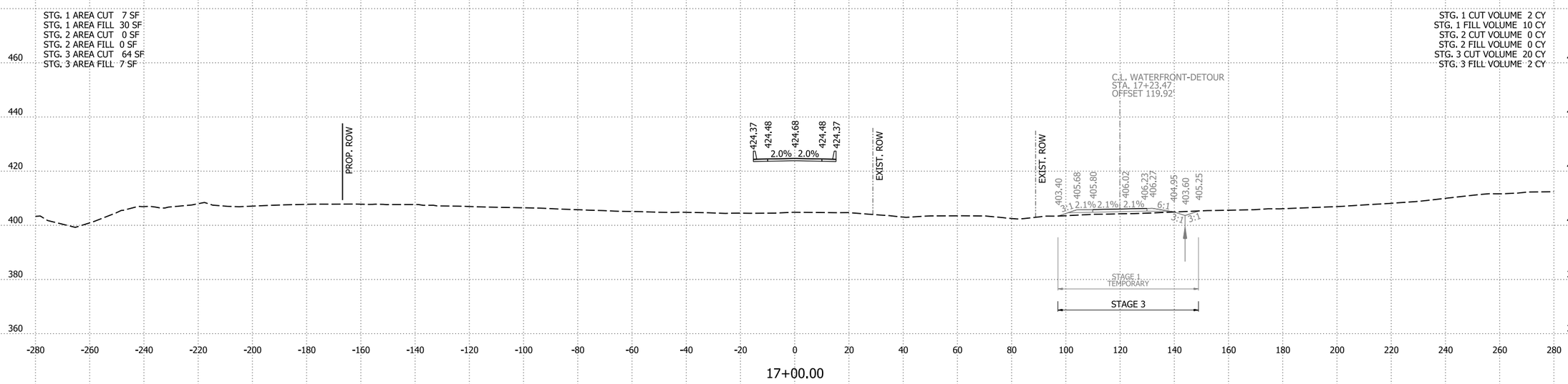
WATERFRONT STA. 15+45.48 TO STA. 16+40.75

6/2/2026 9:25:19 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	684	742
		CROSS SECTIONS				

STG. 1 AREA CUT 7 SF
STG. 1 AREA FILL 30 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 64 SF
STG. 3 AREA FILL 7 SF

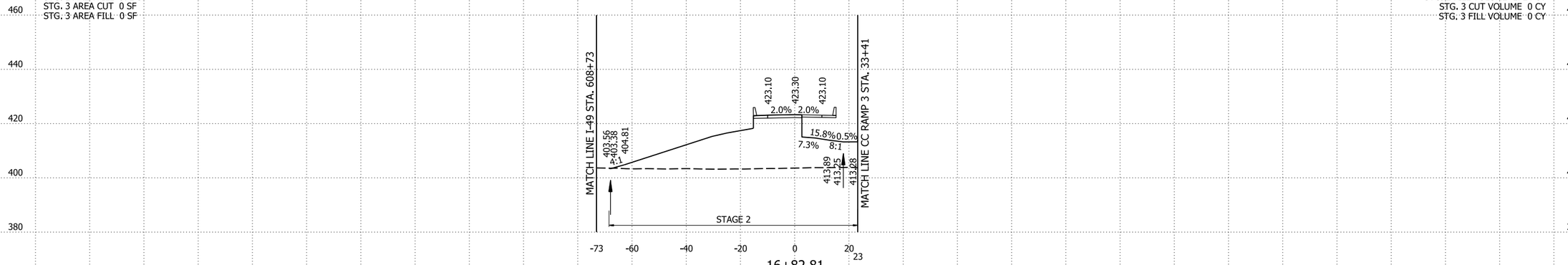
STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 10 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 20 CY
STG. 3 FILL VOLUME 2 CY



17+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 971 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

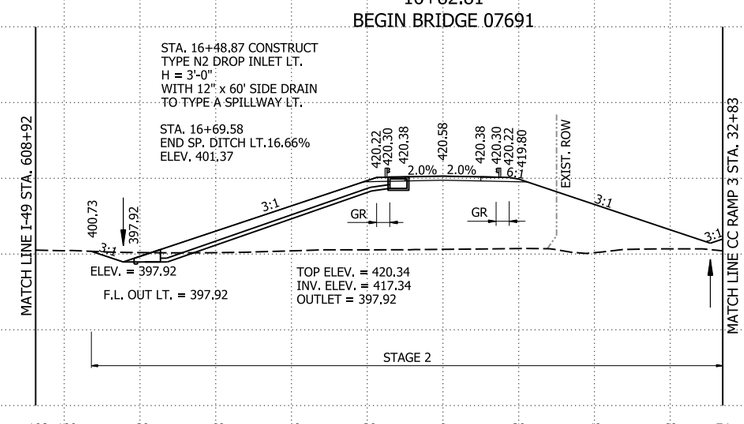
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 12 CY
STG. 2 FILL VOLUME 1724 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



16+82.81
BEGIN BRIDGE 07691

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 20 SF
STG. 2 AREA FILL 1772 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 7 CY
STG. 2 FILL VOLUME 532 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



16+48.87

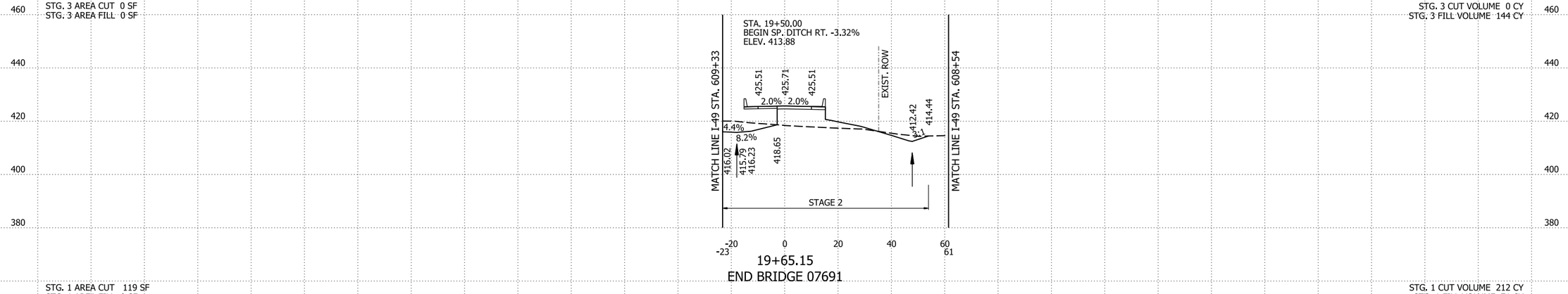
WATERFRONT STA. 16+48.87 TO STA. 17+00

6/2/2026 9:25:20 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	685	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 77 SF
STG. 2 AREA FILL 146 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 144 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 93 CY
STG. 2 FILL VOLUME 176 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 144 CY



19+65.15
END BRIDGE 07691

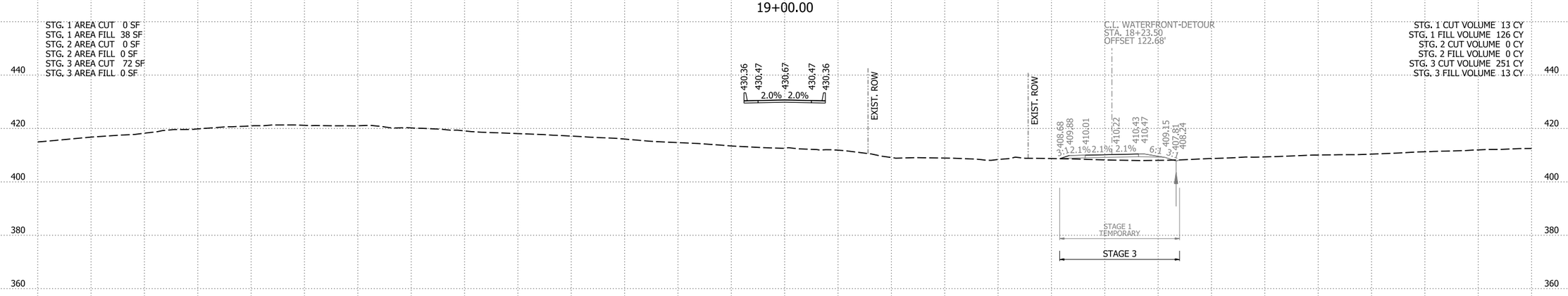
STG. 1 AREA CUT 119 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 119 SF

STG. 1 CUT VOLUME 212 CY
STG. 1 FILL VOLUME 71 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 113 CY
STG. 3 FILL VOLUME 221 CY

19+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 38 SF
STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 72 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 13 CY
STG. 1 FILL VOLUME 126 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 251 CY
STG. 3 FILL VOLUME 13 CY



18+00.00

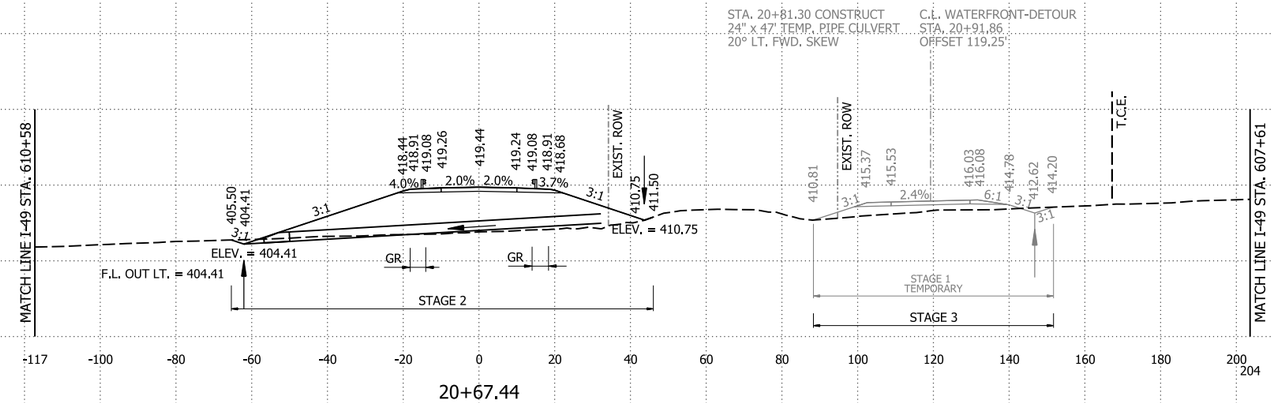
WATERFRONT STA. 18+00 TO STA. 19+65.15

4/30/2026 8:16:23 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	686	742
		CROSS SECTIONS				

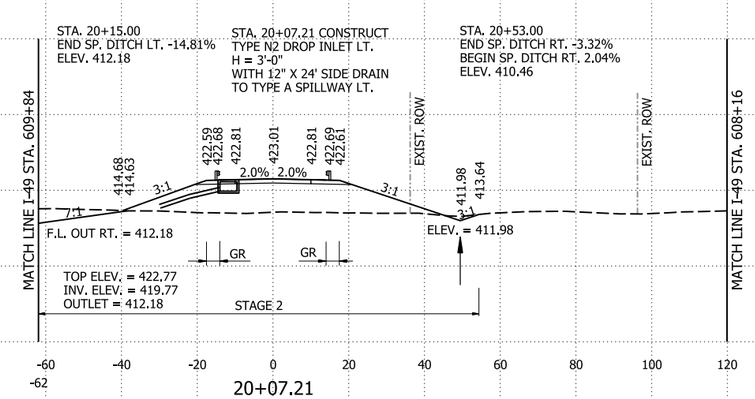
STG. 1 AREA CUT 6 SF
STG. 1 AREA FILL 90 SF
STG. 2 AREA CUT 4 SF
STG. 2 AREA FILL 771 SF
STG. 3 AREA CUT 125 SF
STG. 3 AREA FILL 6 SF

STG. 1 CUT VOLUME 7 CY
STG. 1 FILL VOLUME 100 CY
STG. 2 CUT VOLUME 63 CY
STG. 2 FILL VOLUME 1388 CY
STG. 3 CUT VOLUME 140 CY
STG. 3 FILL VOLUME 7 CY



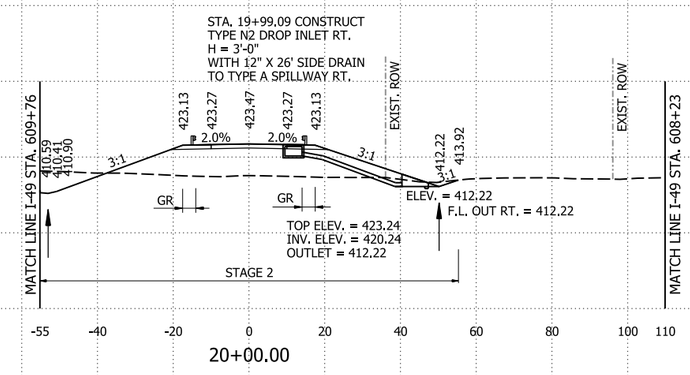
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 52 SF
STG. 2 AREA FILL 473 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 15 CY
STG. 2 FILL VOLUME 122 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 64 SF
STG. 2 AREA FILL 444 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 91 CY
STG. 2 FILL VOLUME 381 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



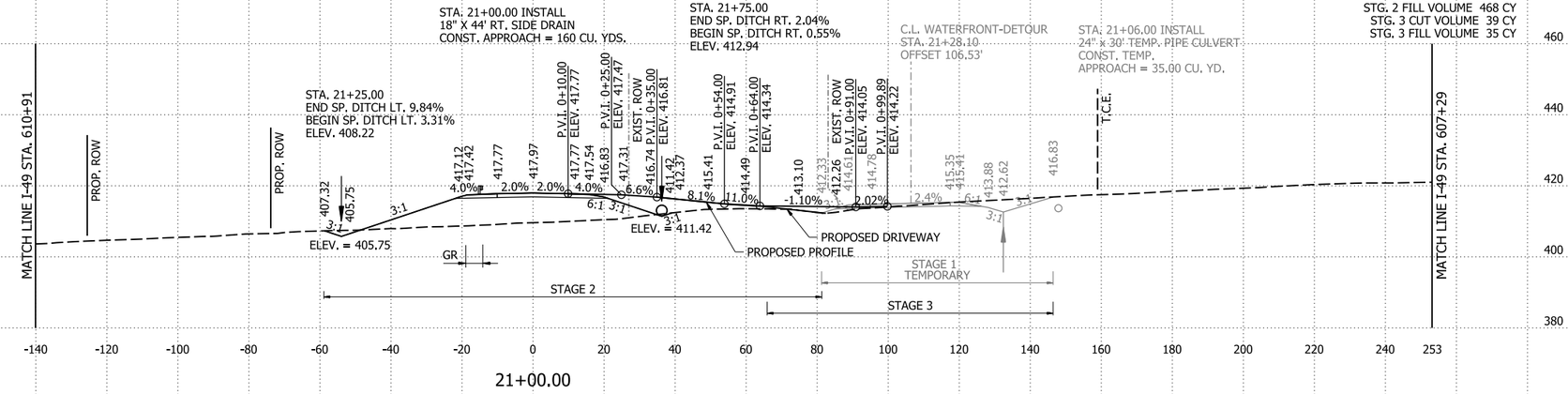
WATERFRONT STA. 20+00 TO STA. 20+67.44

6/2/2026 9:25:20 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	687	742
		CROSS SECTIONS				

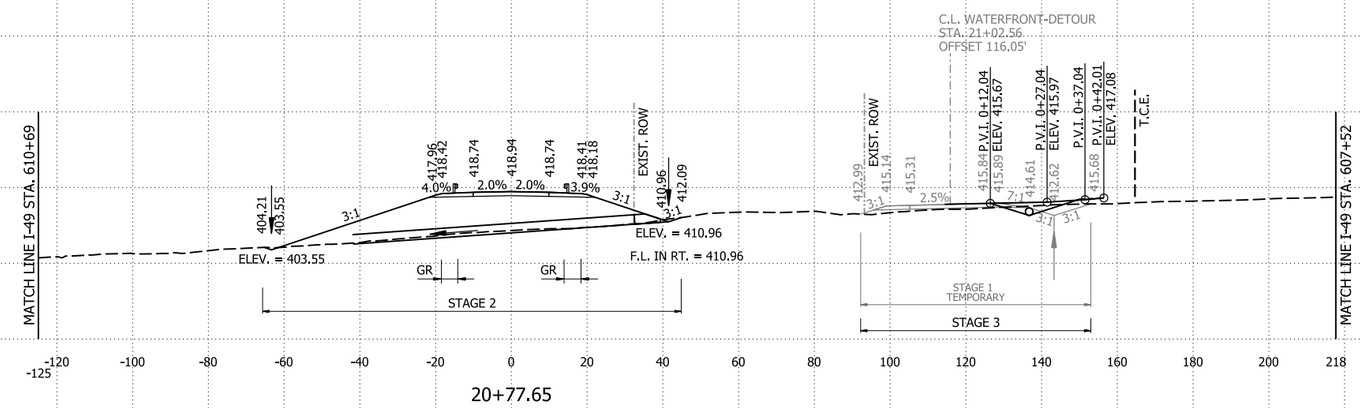
STG. 1 AREA CUT 59 SF
STG. 1 AREA FILL 6 SF
STG. 2 AREA CUT 10 SF
STG. 2 AREA FILL 451 SF
STG. 3 AREA CUT 43 SF
STG. 3 AREA FILL 59 SF

STG. 1 CUT VOLUME 35 CY
STG. 1 FILL VOLUME 10 CY
STG. 2 CUT VOLUME 5 CY
STG. 2 FILL VOLUME 468 CY
STG. 3 CUT VOLUME 39 CY
STG. 3 FILL VOLUME 35 CY



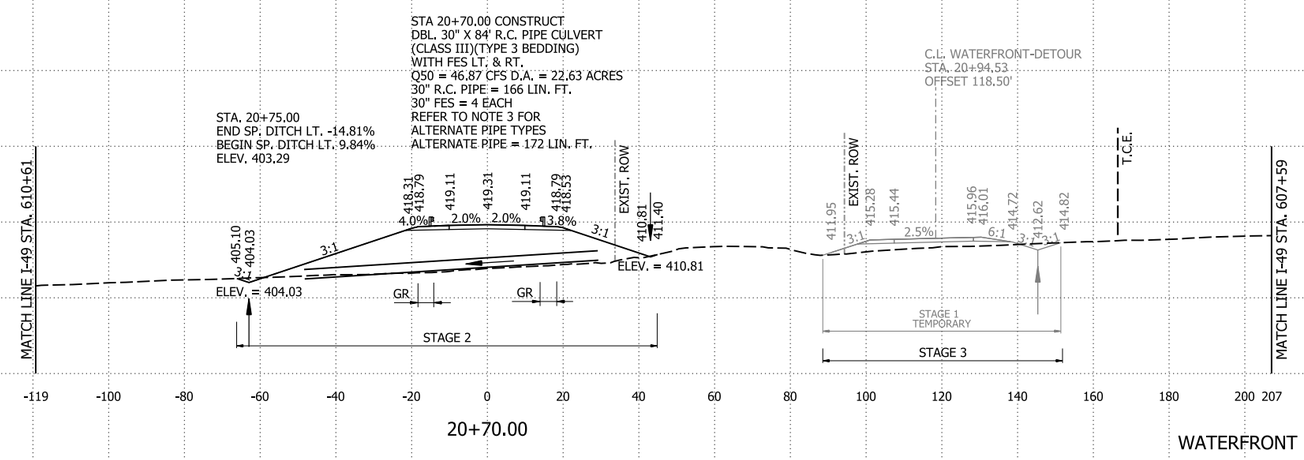
STG. 1 AREA CUT 26 SF
STG. 1 AREA FILL 17 SF
STG. 2 AREA CUT 3 SF
STG. 2 AREA FILL 681 SF
STG. 3 AREA CUT 52 SF
STG. 3 AREA FILL 26 SF

STG. 1 CUT VOLUME 5 CY
STG. 1 FILL VOLUME 13 CY
STG. 2 CUT VOLUME 1 CY
STG. 2 FILL VOLUME 204 CY
STG. 3 CUT VOLUME 23 CY
STG. 3 FILL VOLUME 5 CY



STG. 1 AREA CUT 9 SF
STG. 1 AREA FILL 72 SF
STG. 2 AREA CUT 5 SF
STG. 2 AREA FILL 759 SF
STG. 3 AREA CUT 108 SF
STG. 3 AREA FILL 9 SF

STG. 1 CUT VOLUME 1 CY
STG. 1 FILL VOLUME 8 CY
STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 73 CY
STG. 3 CUT VOLUME 11 CY
STG. 3 FILL VOLUME 1 CY



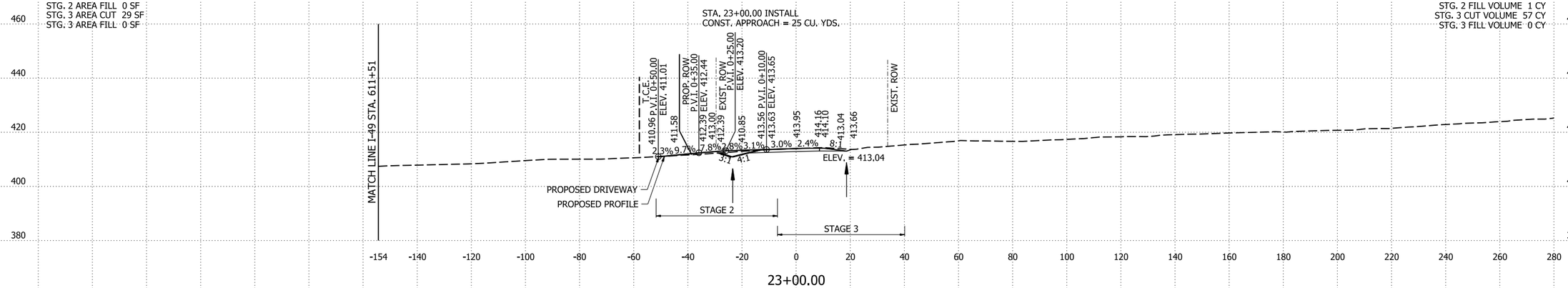
WATERFRONT STA. 20+70 TO STA. 21+00

4/30/2026 8:16:24 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	688	742
		CROSS SECTIONS				

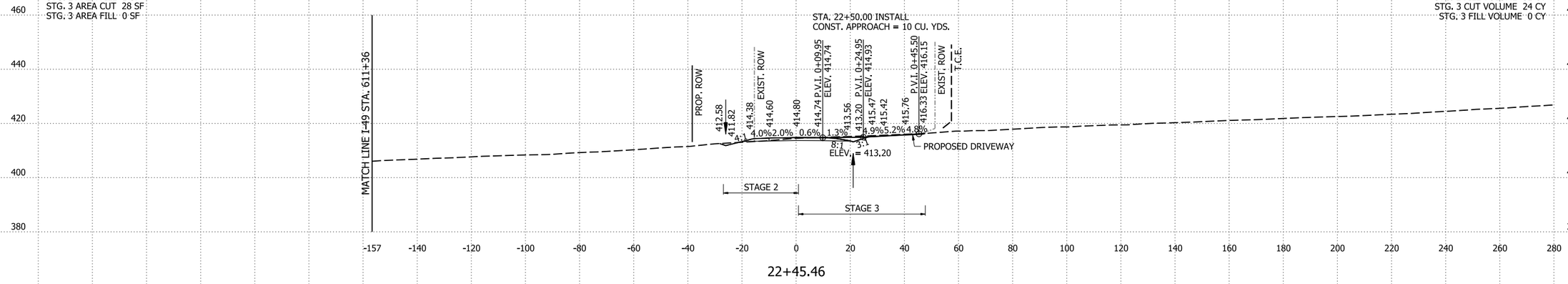
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 22 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 29 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 31 CY
STG. 2 FILL VOLUME 1 CY
STG. 3 CUT VOLUME 57 CY
STG. 3 FILL VOLUME 0 CY



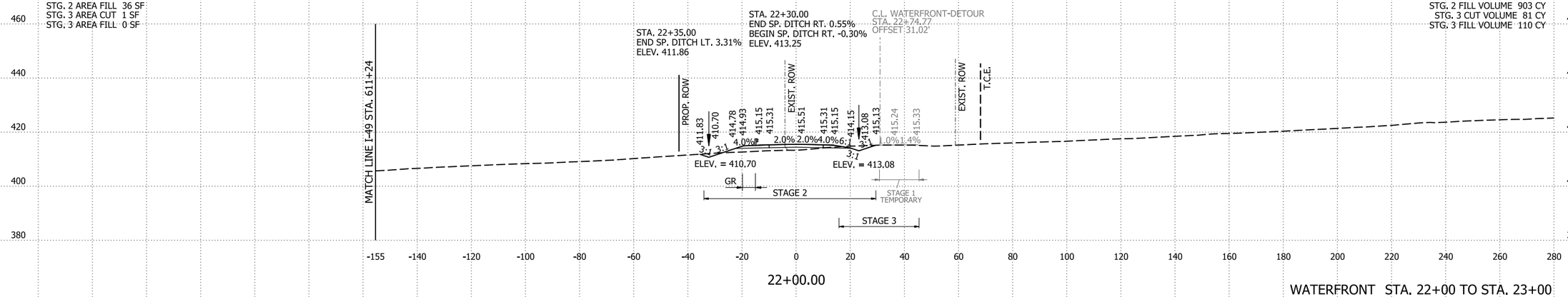
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 9 SF
STG. 2 AREA FILL 1 SF
STG. 3 AREA CUT 28 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 1 CY
STG. 2 CUT VOLUME 24 CY
STG. 2 FILL VOLUME 31 CY
STG. 3 CUT VOLUME 24 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 1 SF
STG. 2 AREA CUT 19 SF
STG. 2 AREA FILL 36 SF
STG. 3 AREA CUT 1 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 109 CY
STG. 1 FILL VOLUME 13 CY
STG. 2 CUT VOLUME 54 CY
STG. 2 FILL VOLUME 903 CY
STG. 3 CUT VOLUME 81 CY
STG. 3 FILL VOLUME 110 CY



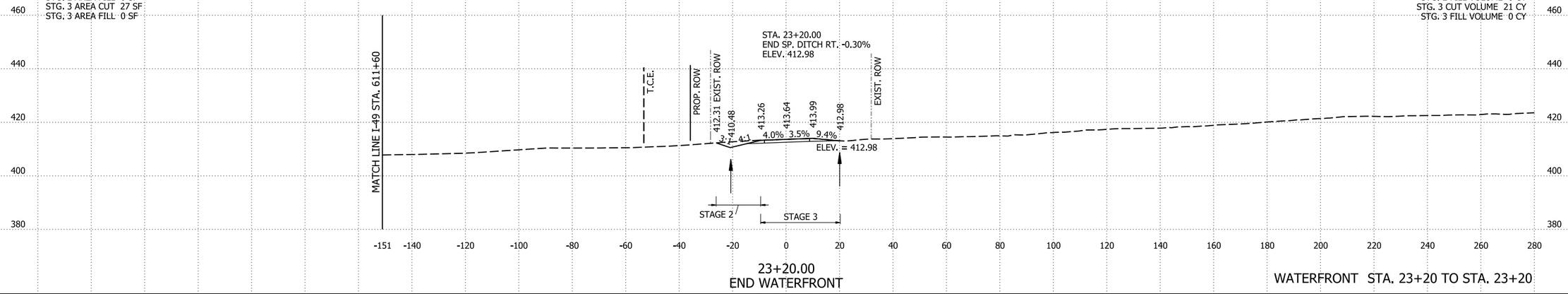
WATERFRONT STA. 22+00 TO STA. 23+00

4/30/2026 8:16:25 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	689	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 2 AREA CUT 21 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 27 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 2 CUT VOLUME 16 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 21 CY
STG. 3 FILL VOLUME 0 CY

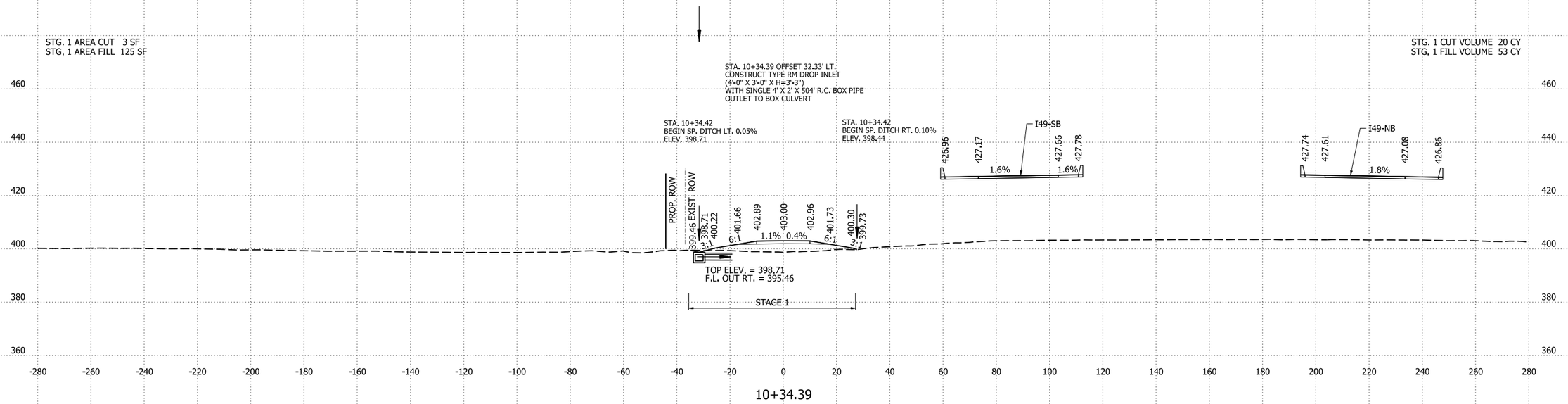


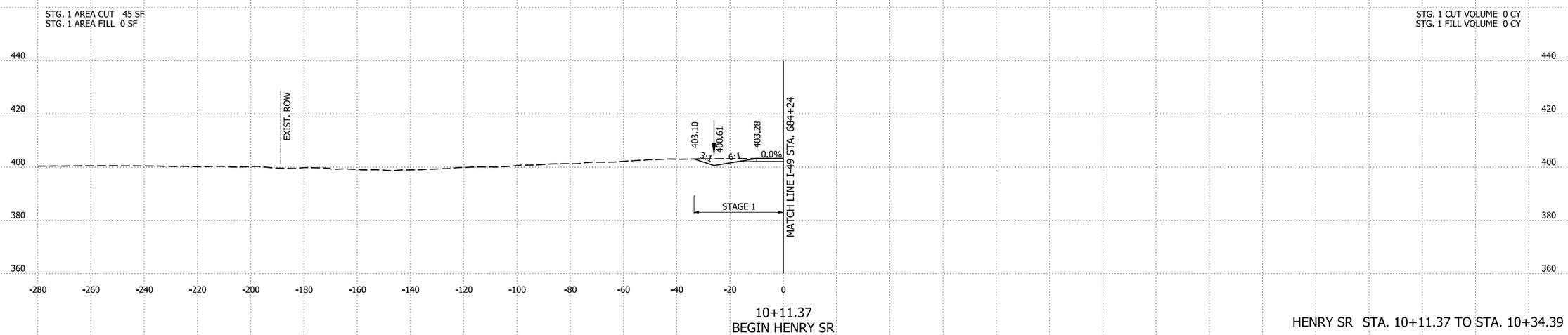
23+20.00
END WATERFRONT

WATERFRONT STA. 23+20 TO STA. 23+20

4/30/2026 8:16:25 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	690	742
		CROSS SECTIONS				





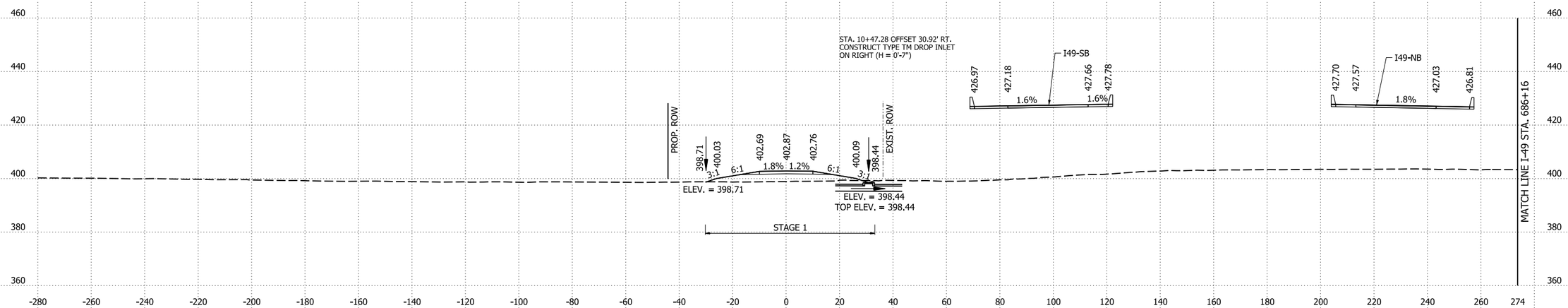
HENRY SR STA. 10+11.37 TO STA. 10+34.39

4/30/2026 8:16:25 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	691	742
		CROSS SECTIONS				

STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 129 SF

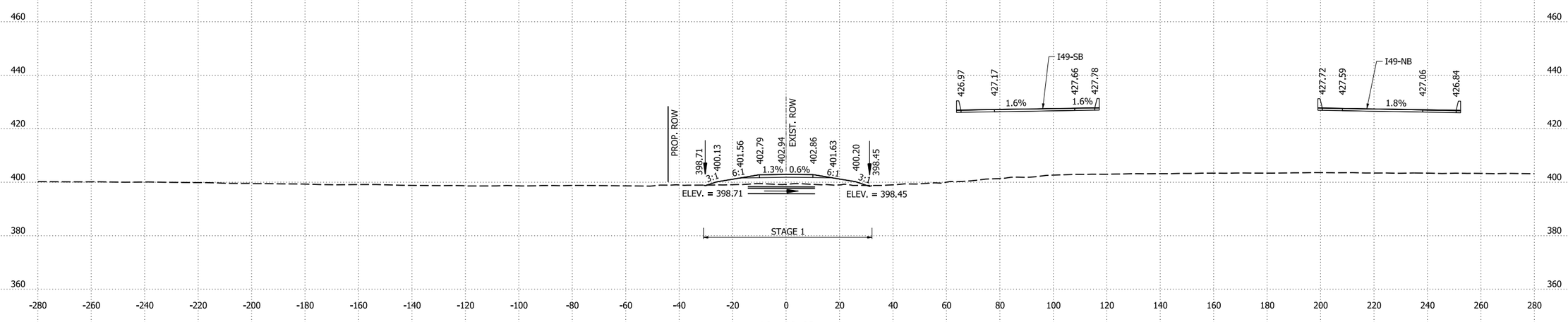
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 31 CY



10+47.28

STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 125 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 29 CY



10+40.63

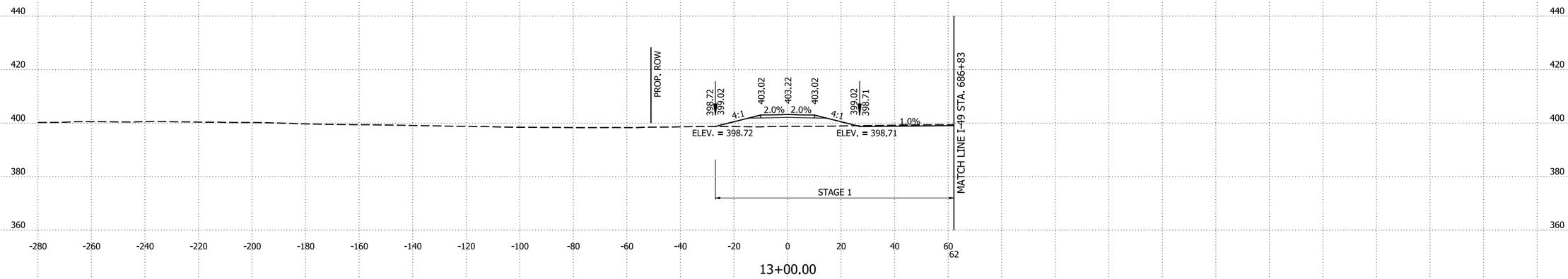
HENRY SR STA. 10+40.63 TO STA. 10+47.28

4/30/2026 8:16:26 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	692	742
		CROSS SECTIONS				

STG. 1 AREA CUT 14 SF
STG. 1 AREA FILL 132 SF

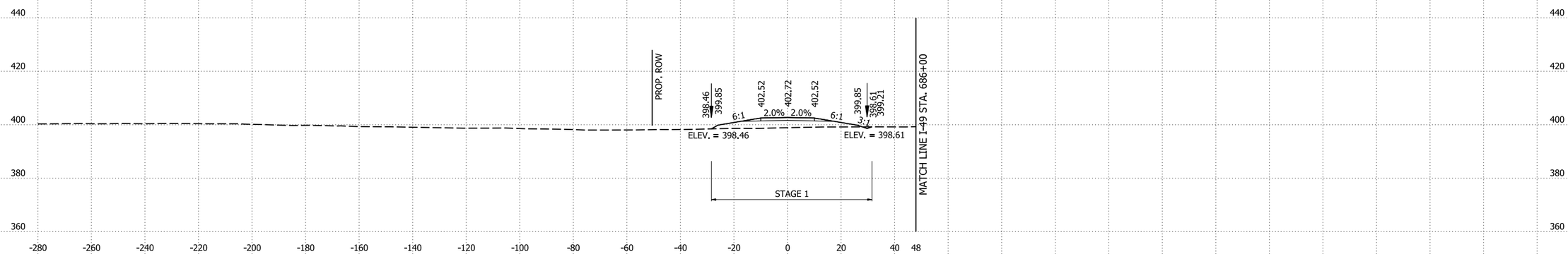
STG. 1 CUT VOLUME 27 CY
STG. 1 FILL VOLUME 468 CY



13+00.00

STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 120 SF

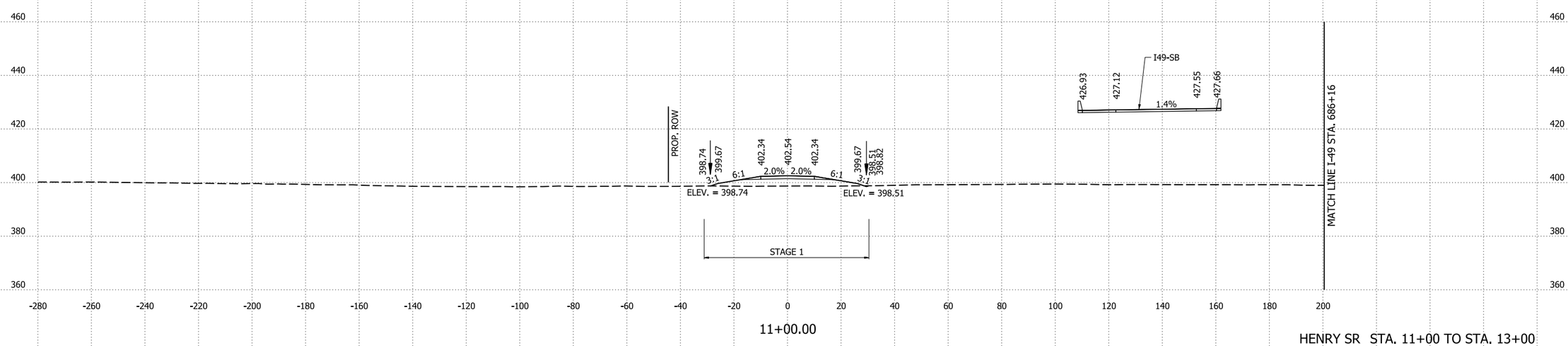
STG. 1 CUT VOLUME 3 CY
STG. 1 FILL VOLUME 448 CY



12+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 121 SF

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 245 CY



11+00.00

HENRY SR STA. 11+00 TO STA. 13+00

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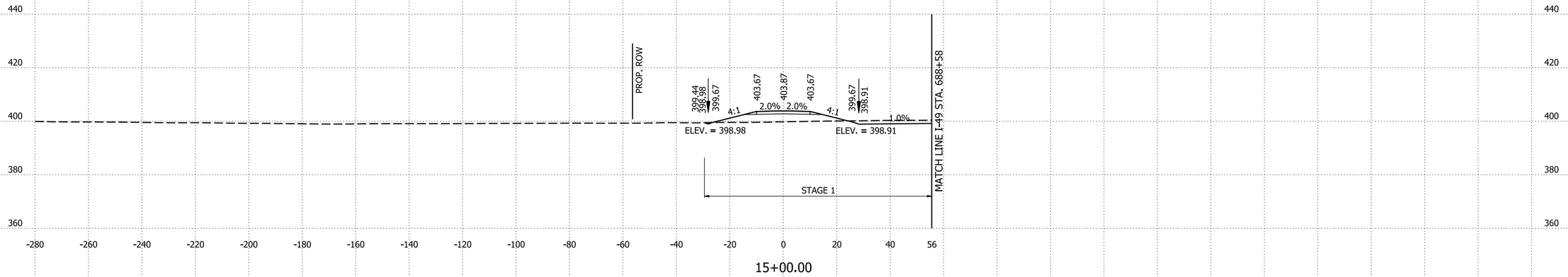
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	693	742
		CROSS SECTIONS				

STG. 1 AREA CUT 38 SF
STG. 1 AREA FILL 113 SF

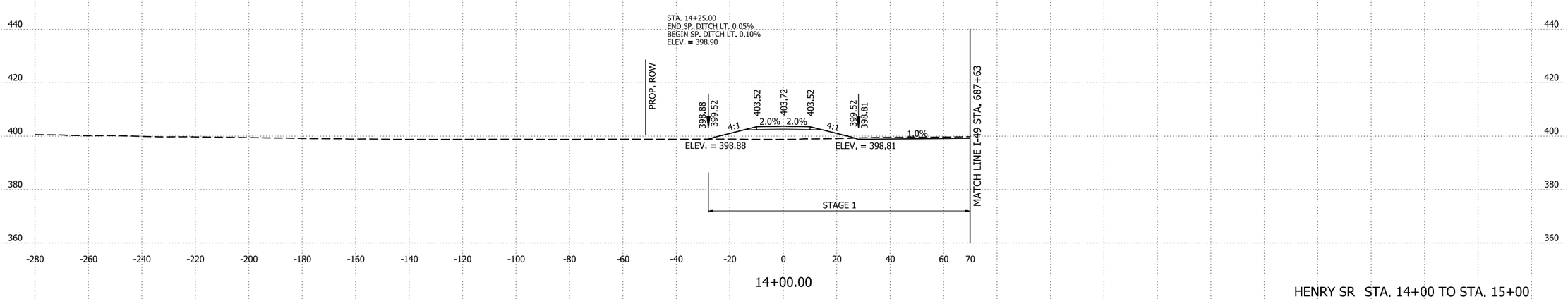
STG. 1 CUT VOLUME 114 CY
STG. 1 FILL VOLUME 488 CY



15+00.00

STG. 1 AREA CUT 24 SF
STG. 1 AREA FILL 151 SF

STG. 1 CUT VOLUME 69 CY
STG. 1 FILL VOLUME 524 CY



14+00.00

HENRY SR STA. 14+00 TO STA. 15+00

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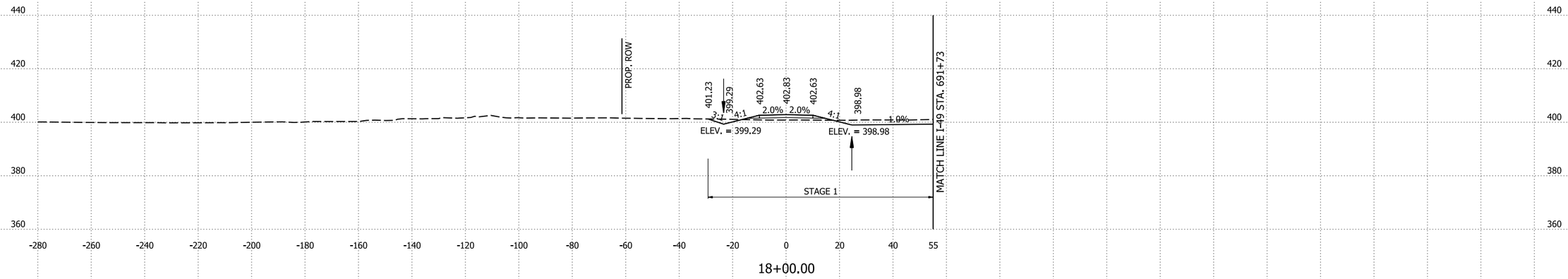
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	694	742
		CROSS SECTIONS				

STG. 1 AREA CUT 71 SF
STG. 1 AREA FILL 24 SF

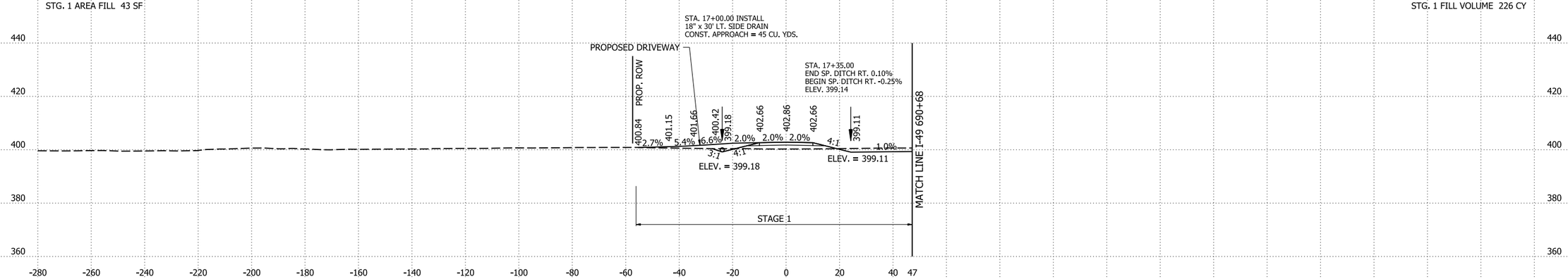
STG. 1 CUT VOLUME 197 CY
STG. 1 FILL VOLUME 124 CY



18+00.00

STG. 1 AREA CUT 41 SF
STG. 1 AREA FILL 43 SF

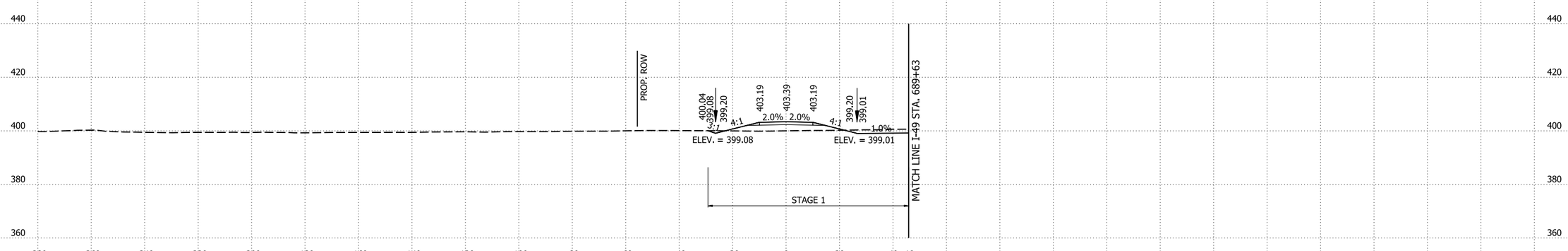
STG. 1 CUT VOLUME 125 CY
STG. 1 FILL VOLUME 226 CY



17+00.00

STG. 1 AREA CUT 32 SF
STG. 1 AREA FILL 78 SF

STG. 1 CUT VOLUME 130 CY
STG. 1 FILL VOLUME 354 CY



16+00.00

HENRY SR STA. 16+00 TO STA. 18+00

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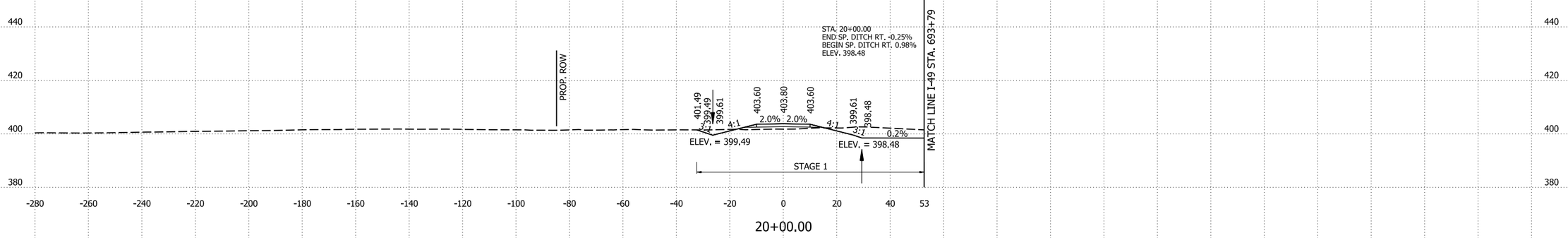
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	695	742
		CROSS SECTIONS				

STG. 1 AREA CUT 126 SF
STG. 1 AREA FILL 23 SF

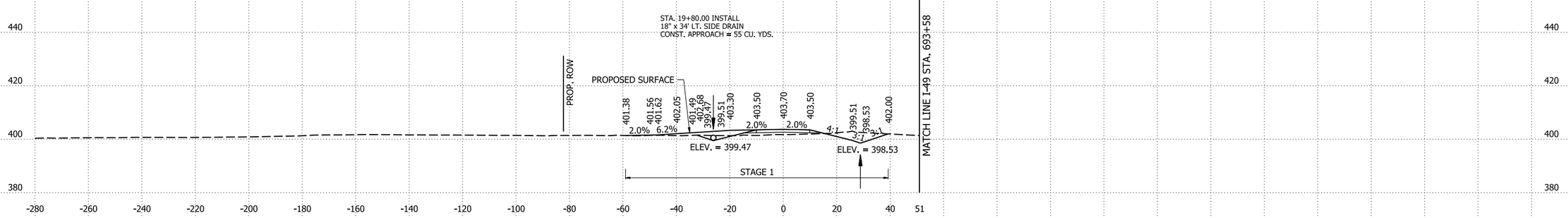
STG. 1 CUT VOLUME 65 CY
STG. 1 FILL VOLUME 17 CY



20+00.00

STG. 1 AREA CUT 49 SF
STG. 1 AREA FILL 24 SF

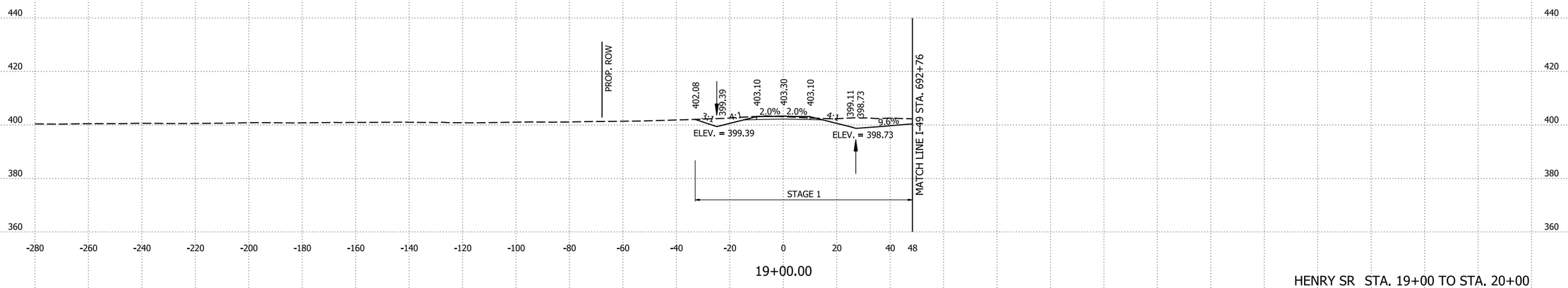
STG. 1 CUT VOLUME 291 CY
STG. 1 FILL VOLUME 36 CY



19+80.00

STG. 1 AREA CUT 147 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 405 CY
STG. 1 FILL VOLUME 44 CY



19+00.00

HENRY SR STA. 19+00 TO STA. 20+00

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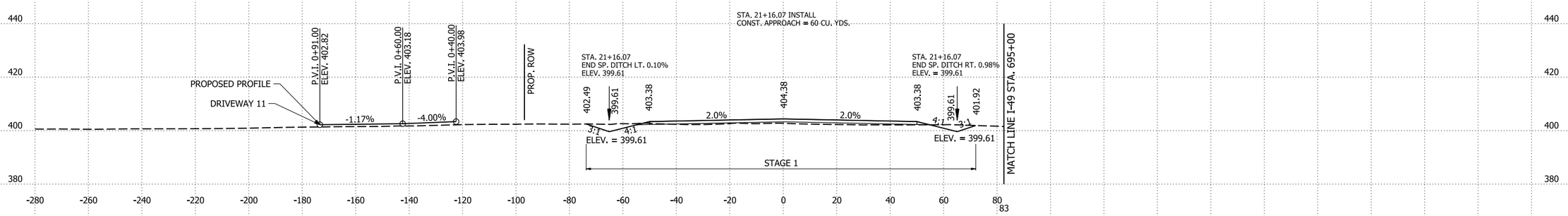
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	696	742
		CROSS SECTIONS				

STG. 1 AREA CUT 55 SF
STG. 1 AREA FILL 41 SF

STG. 1 CUT VOLUME 32 CY
STG. 1 FILL VOLUME 25 CY

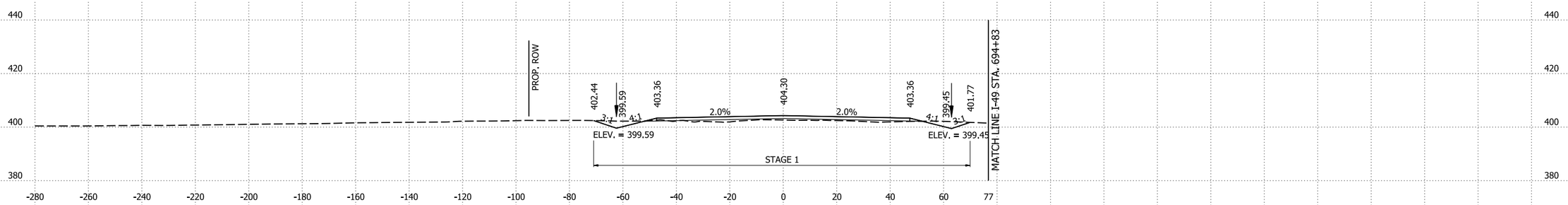


21+16.07

END HENRY SR

STG. 1 AREA CUT 52 SF
STG. 1 AREA FILL 43 SF

STG. 1 CUT VOLUME 328 CY
STG. 1 FILL VOLUME 121 CY



21+00.00

HENRY SR STA. 21+00 TO STA. 21+16.07

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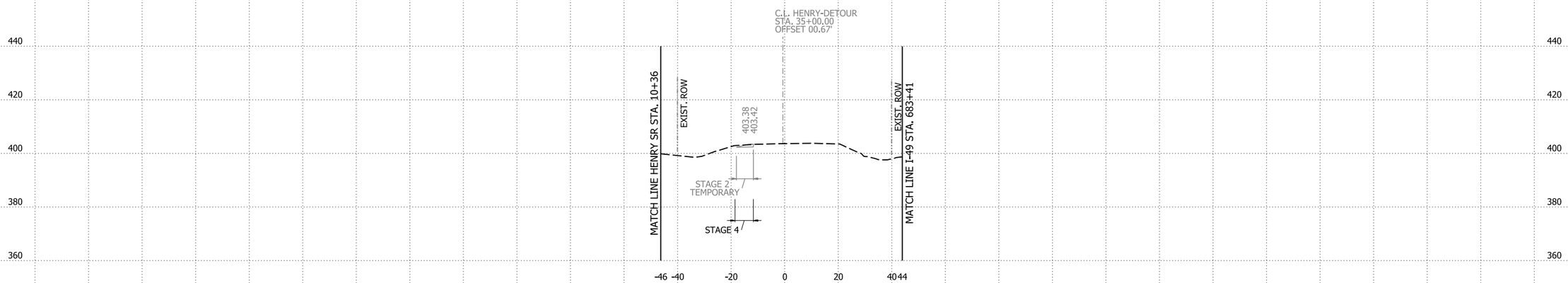
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	697	742
		CROSS SECTIONS				

STG. 2 AREA CUT 4 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 4 SF

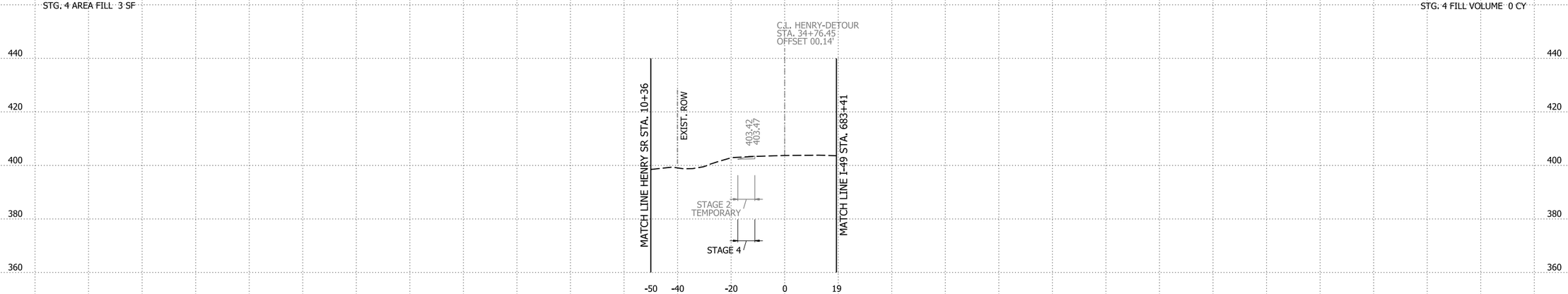
STG. 2 CUT VOLUME 3 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 3 CY



35+00.00

STG. 2 AREA CUT 3 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 3 SF

STG. 2 CUT VOLUME 0 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 0 CY



34+76.45
BEGIN HWY 162 HENRY

HWY 162 HENRY STA. 34+76 TO STA. 35+00

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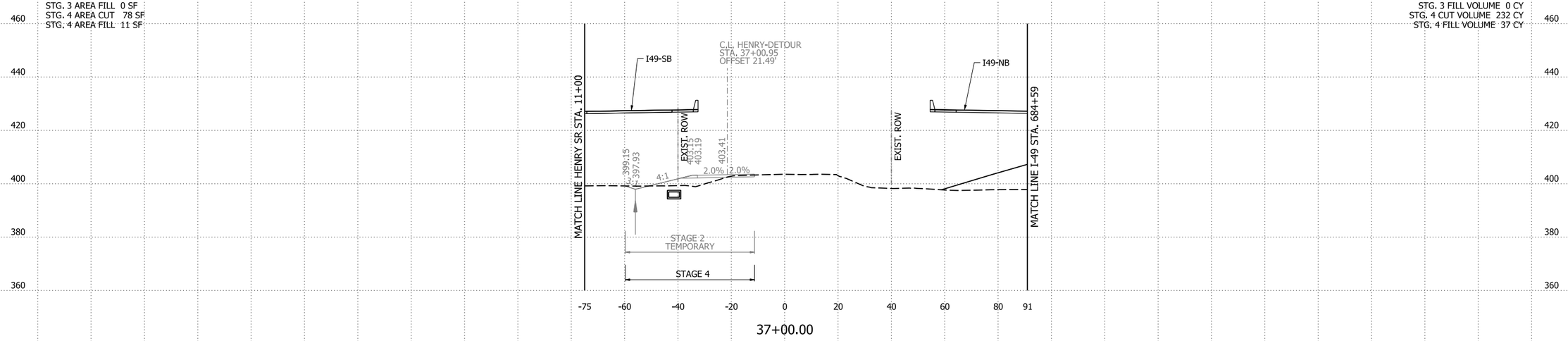
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	698	742
		CROSS SECTIONS				

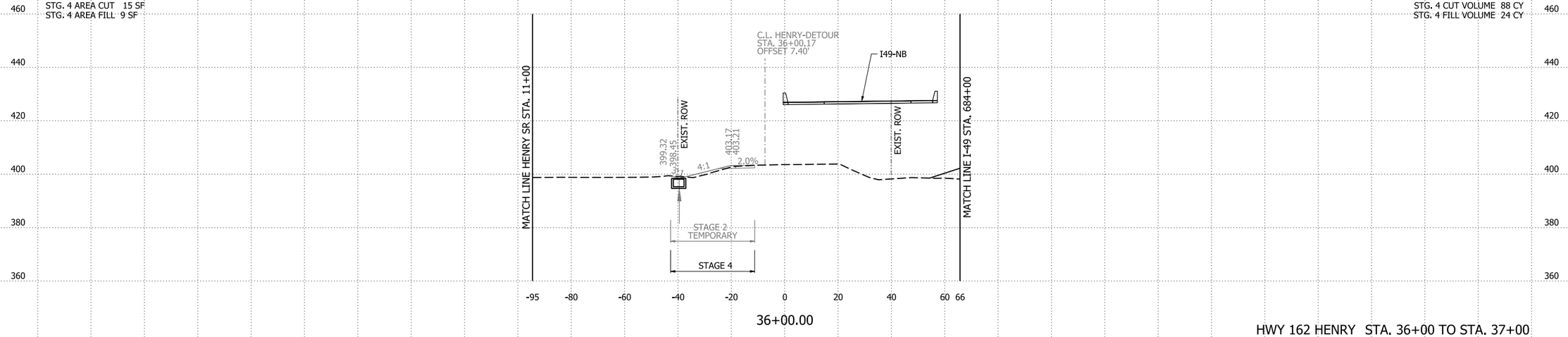
STG. 2 AREA CUT 11 SF
STG. 2 AREA FILL 52 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 78 SF
STG. 4 AREA FILL 11 SF

STG. 2 CUT VOLUME 37 CY
STG. 2 FILL VOLUME 119 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 232 CY
STG. 4 FILL VOLUME 37 CY



STG. 2 AREA CUT 9 SF
STG. 2 AREA FILL 12 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 15 SF
STG. 4 AREA FILL 9 SF

STG. 2 CUT VOLUME 24 CY
STG. 2 FILL VOLUME 22 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 88 CY
STG. 4 FILL VOLUME 24 CY



HWY 162 HENRY STA. 36+00 TO STA. 37+00

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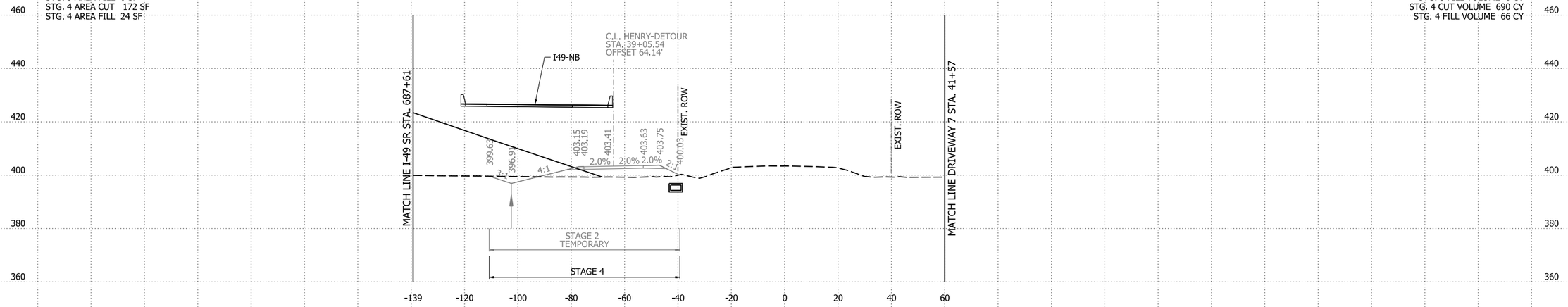
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	699	742
		CROSS SECTIONS				

STG. 2 AREA CUT 24 SF
STG. 2 AREA FILL 138 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 172 SF
STG. 4 AREA FILL 24 SF

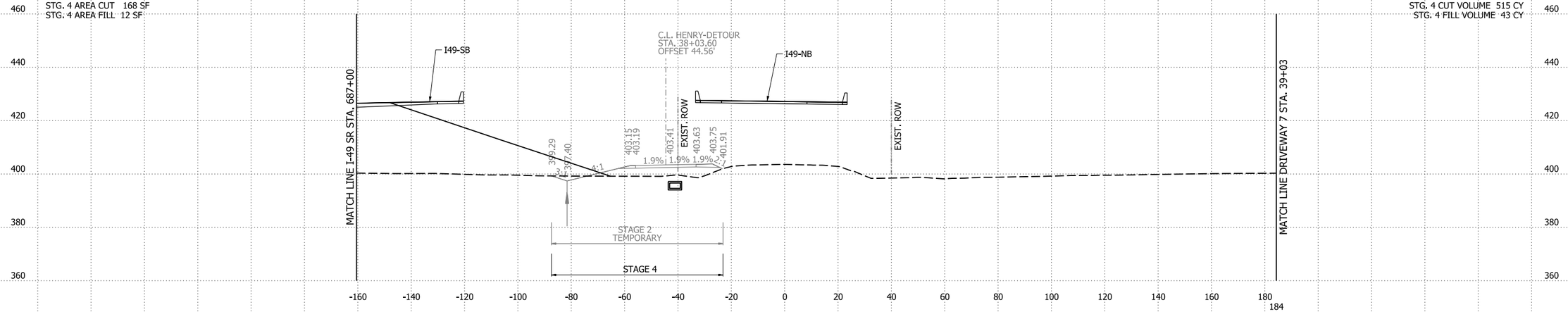
STG. 2 CUT VOLUME 66 CY
STG. 2 FILL VOLUME 501 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 690 CY
STG. 4 FILL VOLUME 66 CY



39+00.00

STG. 2 AREA CUT 12 SF
STG. 2 AREA FILL 133 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 168 SF
STG. 4 AREA FILL 12 SF

STG. 2 CUT VOLUME 43 CY
STG. 2 FILL VOLUME 343 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 515 CY
STG. 4 FILL VOLUME 43 CY



38+00.00

HWY 162 HENRY STA. 38+00 TO STA. 39+00

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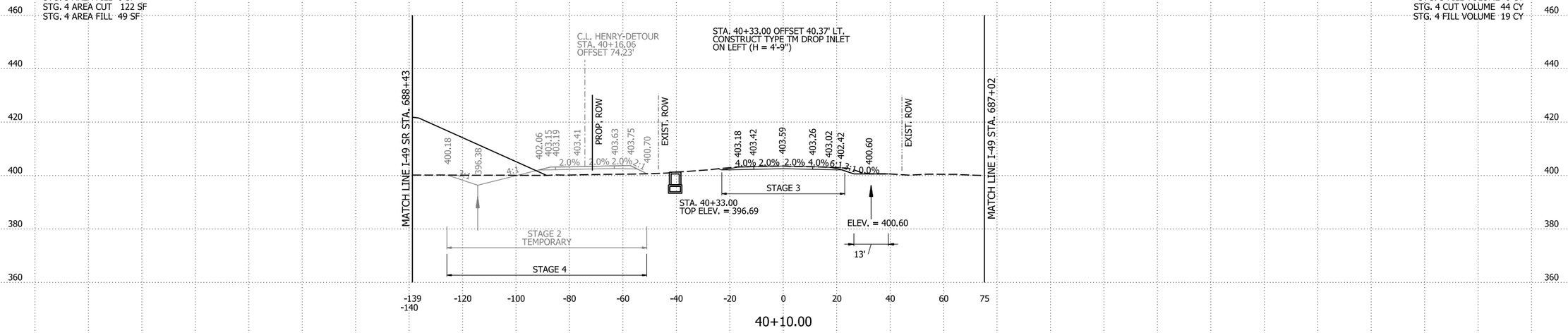
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	700	742
		CROSS SECTIONS				

STG. 2 AREA CUT 49 SF
STG. 2 AREA FILL 88 SF
STG. 3 AREA CUT 53 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 122 SF
STG. 4 AREA FILL 49 SF

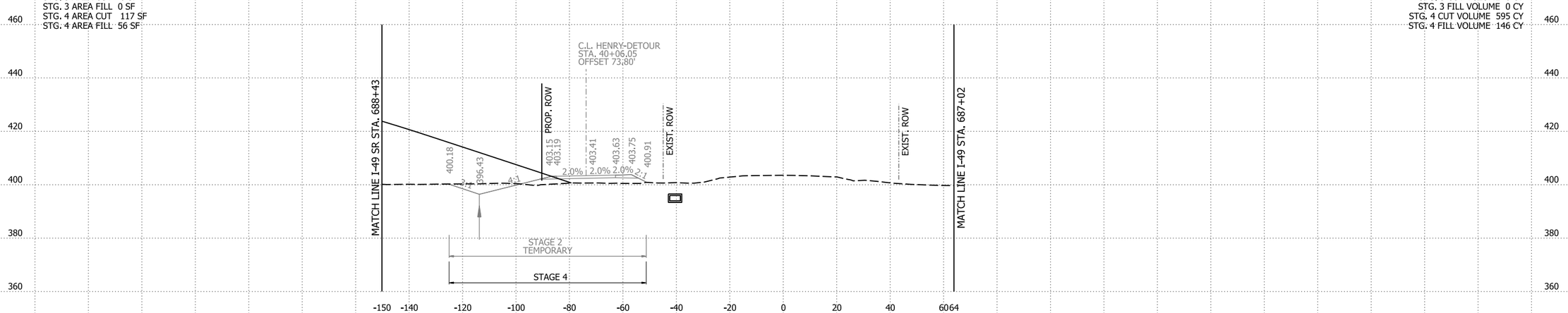
STG. 2 CUT VOLUME 19 CY
STG. 2 FILL VOLUME 31 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 44 CY
STG. 4 FILL VOLUME 19 CY



40+10.00

STG. 2 AREA CUT 56 SF
STG. 2 AREA FILL 82 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 117 SF
STG. 4 AREA FILL 56 SF

STG. 2 CUT VOLUME 146 CY
STG. 2 FILL VOLUME 407 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 595 CY
STG. 4 FILL VOLUME 146 CY



40+00.00

HWY 162 HENRY STA. 40+00 TO STA. 40+10

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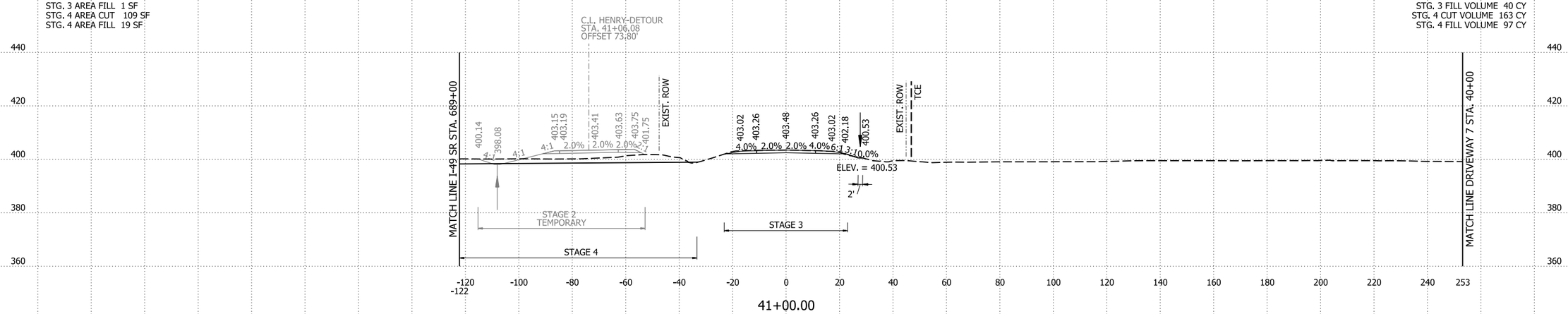
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
09-03-2026		6	ARK.	040904	701	742
		CROSS SECTIONS				

STG. 2 AREA CUT 19 SF
STG. 2 AREA FILL 75 SF
STG. 3 AREA CUT 42 SF
STG. 3 AREA FILL 1 SF
STG. 4 AREA CUT 109 SF
STG. 4 AREA FILL 19 SF

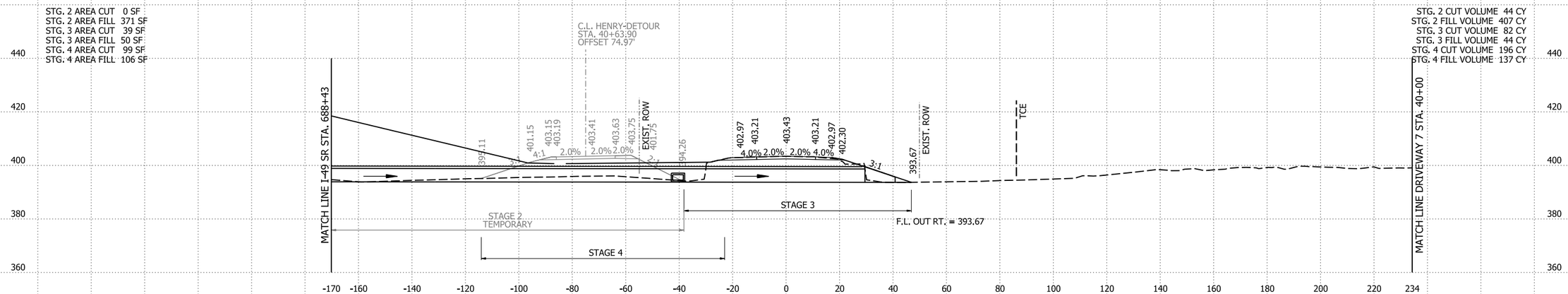
STG. 2 CUT VOLUME 15 CY
STG. 2 FILL VOLUME 348 CY
STG. 3 CUT VOLUME 63 CY
STG. 3 FILL VOLUME 40 CY
STG. 4 CUT VOLUME 163 CY
STG. 4 FILL VOLUME 97 CY



41+00.00

STG. 2 AREA CUT 0 SF
STG. 2 AREA FILL 371 SF
STG. 3 AREA CUT 39 SF
STG. 3 AREA FILL 50 SF
STG. 4 AREA CUT 99 SF
STG. 4 AREA FILL 106 SF

STG. 2 CUT VOLUME 44 CY
STG. 2 FILL VOLUME 407 CY
STG. 3 CUT VOLUME 82 CY
STG. 3 FILL VOLUME 44 CY
STG. 4 CUT VOLUME 196 CY
STG. 4 FILL VOLUME 137 CY



40+57.84

HWY 162 HENRY STA. 40+57.84 TO STA. 41+00

9/3/2026 2:25:26 PM
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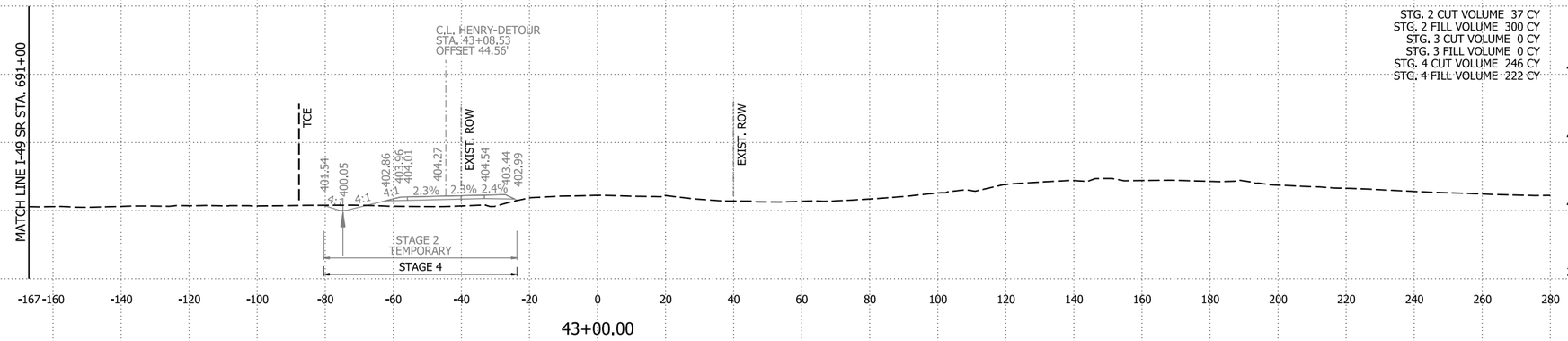
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	702	742
		CROSS SECTIONS				

STG. 2 AREA CUT 11 SF
STG. 2 AREA FILL 75 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 11 SF
STG. 4 AREA FILL 111 SF

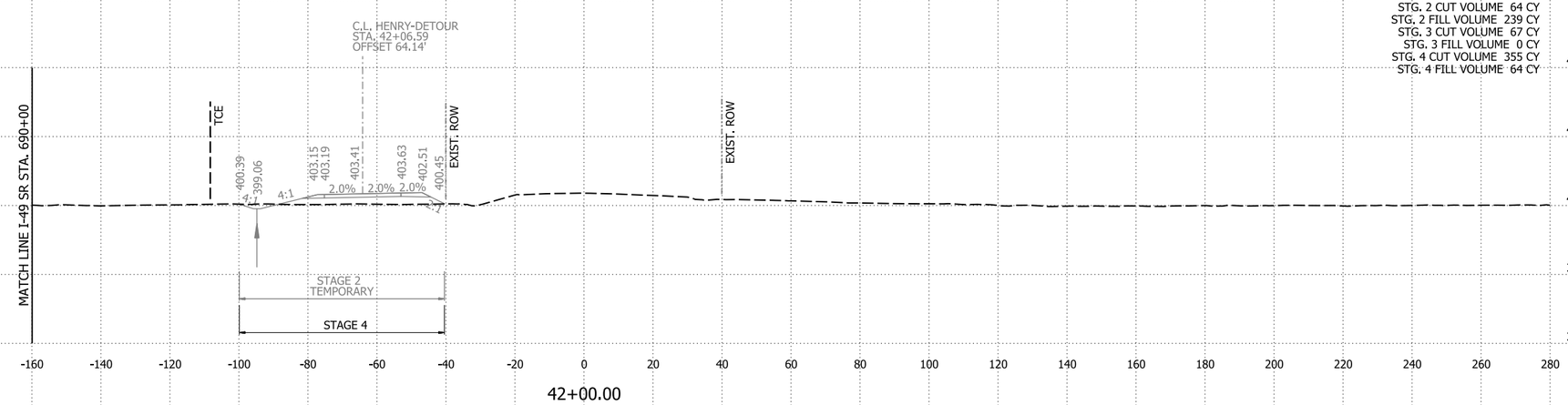
STG. 2 CUT VOLUME 37 CY
STG. 2 FILL VOLUME 300 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 246 CY
STG. 4 FILL VOLUME 222 CY



43+00.00

STG. 2 AREA CUT 9 SF
STG. 2 AREA FILL 87 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 121 SF
STG. 4 AREA FILL 9 SF

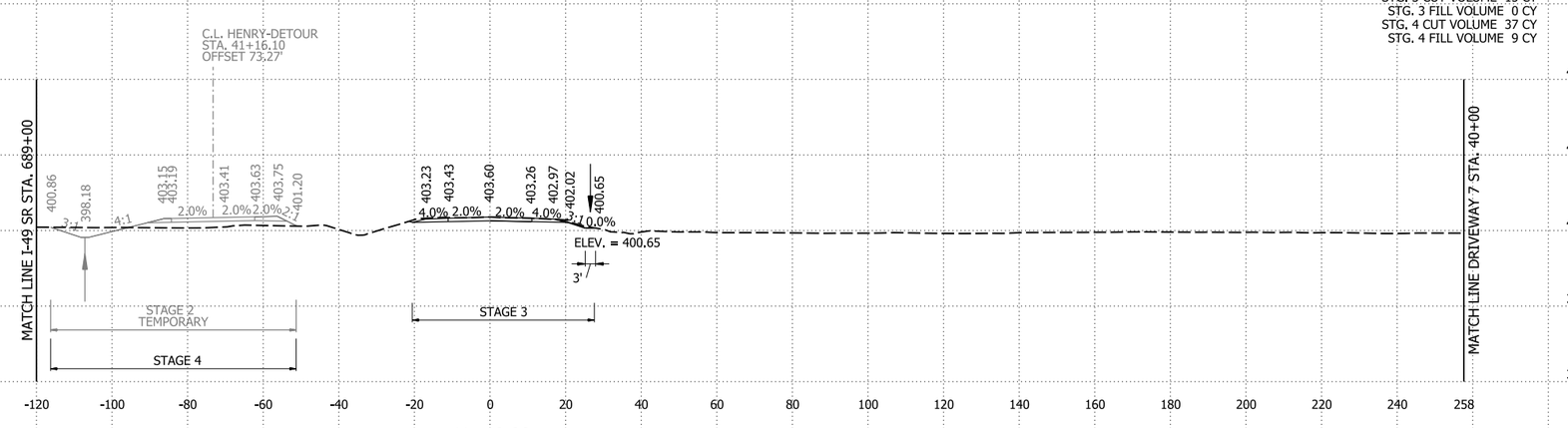
STG. 2 CUT VOLUME 64 CY
STG. 2 FILL VOLUME 239 CY
STG. 3 CUT VOLUME 67 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 355 CY
STG. 4 FILL VOLUME 64 CY



42+00.00

STG. 2 AREA CUT 29 SF
STG. 2 AREA FILL 57 SF
STG. 3 AREA CUT 40 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 92 SF
STG. 4 AREA FILL 29 SF

STG. 2 CUT VOLUME 9 CY
STG. 2 FILL VOLUME 24 CY
STG. 3 CUT VOLUME 15 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 37 CY
STG. 4 FILL VOLUME 9 CY



41+10.00

HWY 162 HENRY STA. 41+10 TO STA. 43+00

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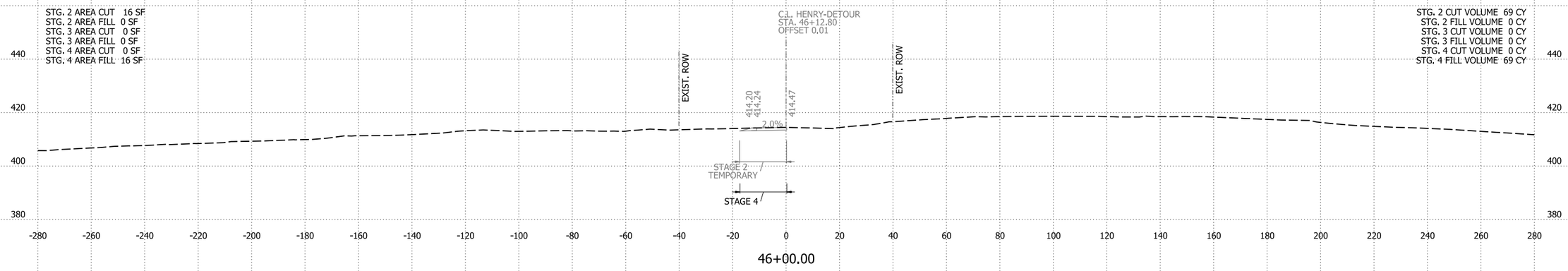
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	703	742
		CROSS SECTIONS				

STG. 2 AREA CUT 16 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 16 SF

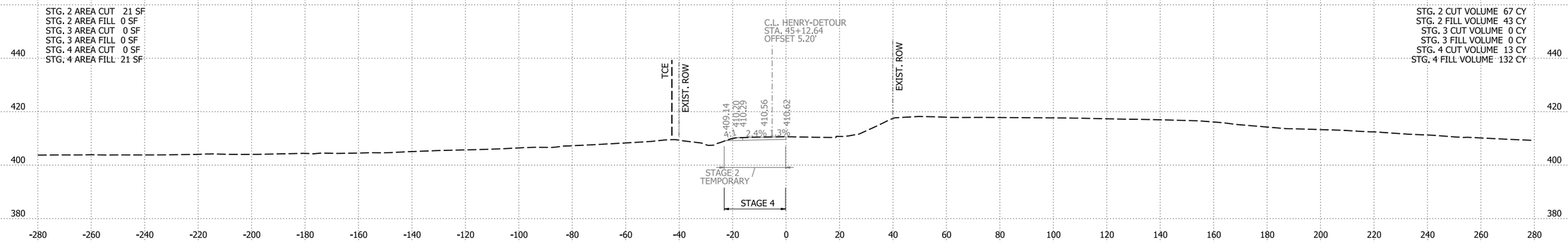
STG. 2 CUT VOLUME 69 CY
STG. 2 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 0 CY
STG. 4 FILL VOLUME 69 CY



46+00.00

STG. 2 AREA CUT 21 SF
STG. 2 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 0 SF
STG. 4 AREA FILL 21 SF

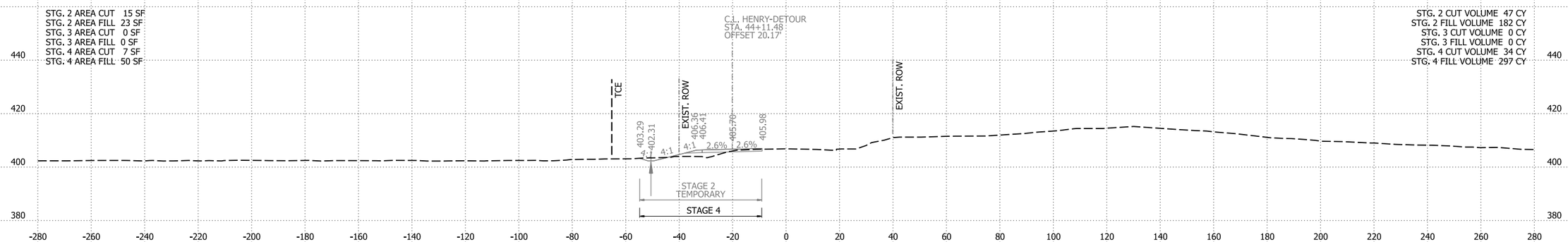
STG. 2 CUT VOLUME 67 CY
STG. 2 FILL VOLUME 43 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 13 CY
STG. 4 FILL VOLUME 132 CY



45+00.00

STG. 2 AREA CUT 15 SF
STG. 2 AREA FILL 23 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF
STG. 4 AREA CUT 7 SF
STG. 4 AREA FILL 50 SF

STG. 2 CUT VOLUME 47 CY
STG. 2 FILL VOLUME 182 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY
STG. 4 CUT VOLUME 34 CY
STG. 4 FILL VOLUME 297 CY



44+00.00

HWY 162 HENRY STA. 44+00 TO STA. 46+00

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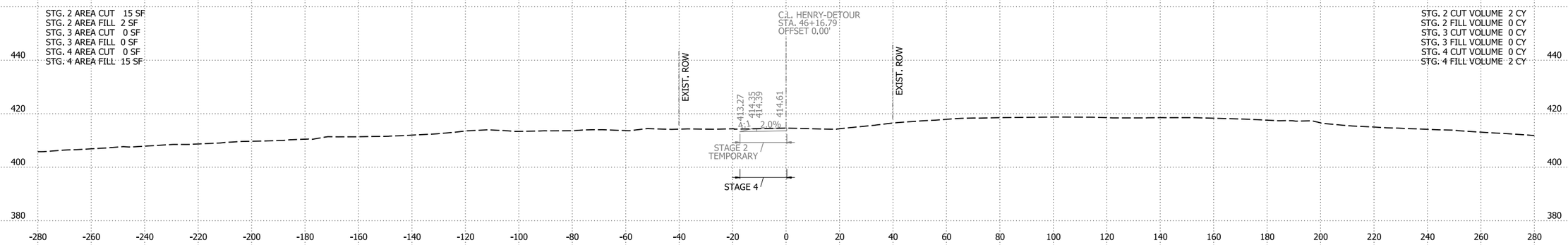
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	704	742
		CROSS SECTIONS				



46+03.98
END HWY 162 HENRY

HWY 162 HENRY STA. 46+03.98 TO STA. 46+03.98

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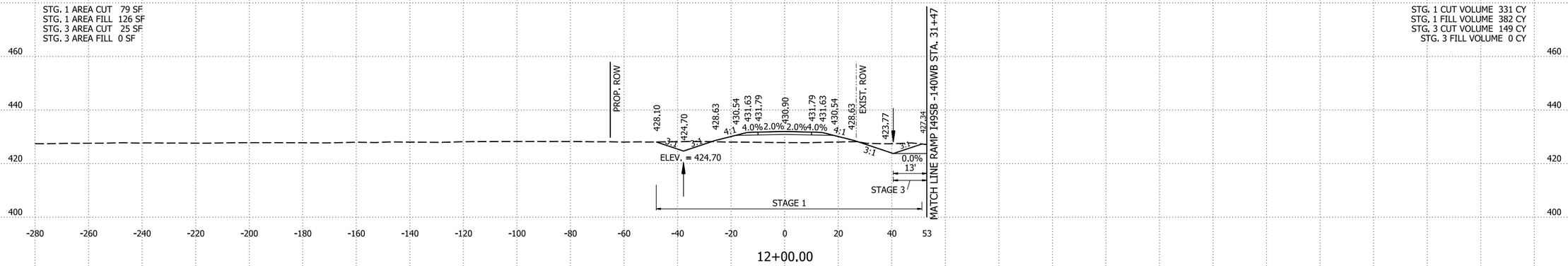
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	705	742
		CROSS SECTIONS				

STG. 1 AREA CUT 79 SF
STG. 1 AREA FILL 126 SF
STG. 3 AREA CUT 25 SF
STG. 3 AREA FILL 0 SF

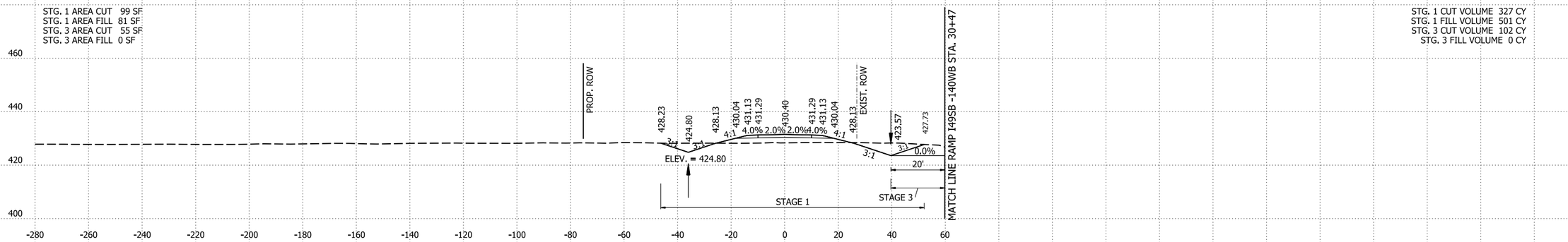
STG. 1 CUT VOLUME 331 CY
STG. 1 FILL VOLUME 382 CY
STG. 3 CUT VOLUME 149 CY
STG. 3 FILL VOLUME 0 CY



12+00.00

STG. 1 AREA CUT 99 SF
STG. 1 AREA FILL 81 SF
STG. 3 AREA CUT 55 SF
STG. 3 AREA FILL 0 SF

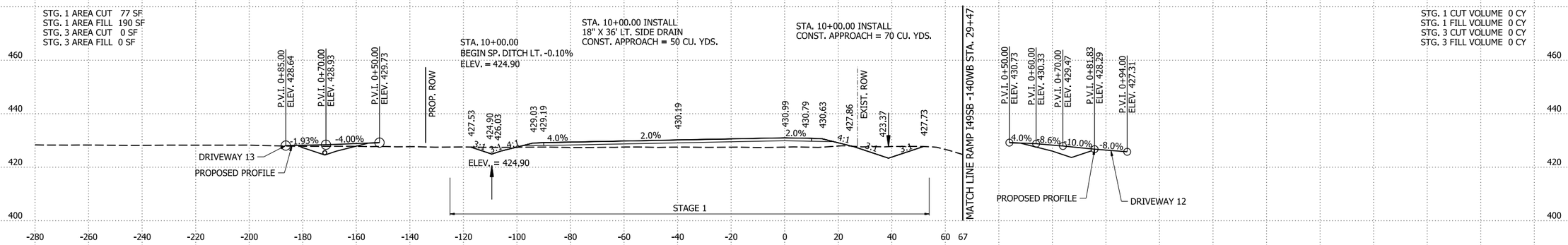
STG. 1 CUT VOLUME 327 CY
STG. 1 FILL VOLUME 501 CY
STG. 3 CUT VOLUME 102 CY
STG. 3 FILL VOLUME 0 CY



11+00.00

STG. 1 AREA CUT 77 SF
STG. 1 AREA FILL 190 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



10+00.00
BEGIN COLLUM FR

COLLUM FR STA. 10+00 TO STA. 12+00

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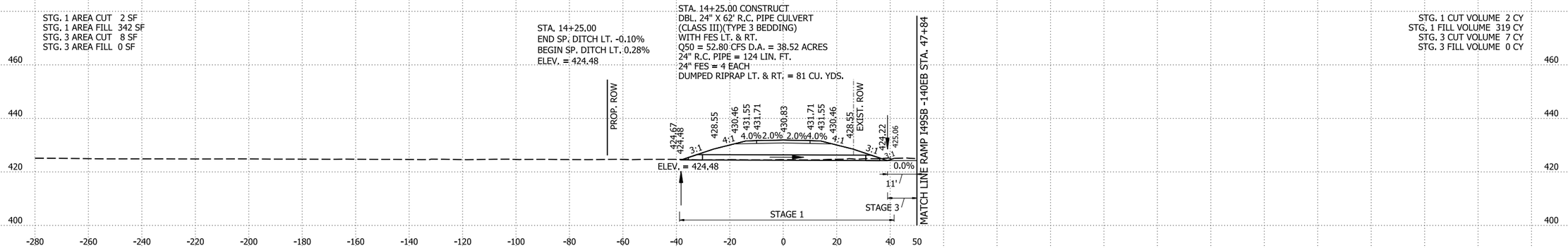
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	706	742
		CROSS SECTIONS				

STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 342 SF
STG. 3 AREA CUT 8 SF
STG. 3 AREA FILL 0 SF

STA. 14+25.00
END SP. DITCH LT. -0.10%
BEGIN SP. DITCH LT. 0.28%
ELEV. = 424.48

STA. 14+25.00 CONSTRUCT
DBL. 24" X 62' R.C. PIPE CULVERT
(CLASS III)(TYPE 3 BEDDING)
WITH FES LT. & RT.
Q50 = 52.80 CFS D.A. = 38.52 ACRES
24" R.C. PIPE = 124 LIN. FT.
24" FES = 4 EACH
DUMPED RIPRAP LT. & RT. = 81 CU. YDS.

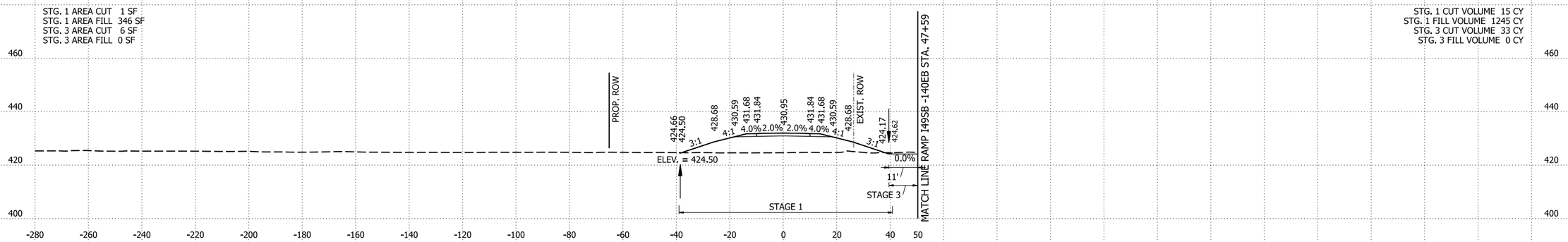
STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 319 CY
STG. 3 CUT VOLUME 7 CY
STG. 3 FILL VOLUME 0 CY



14+25.00

STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 346 SF
STG. 3 AREA CUT 6 SF
STG. 3 AREA FILL 0 SF

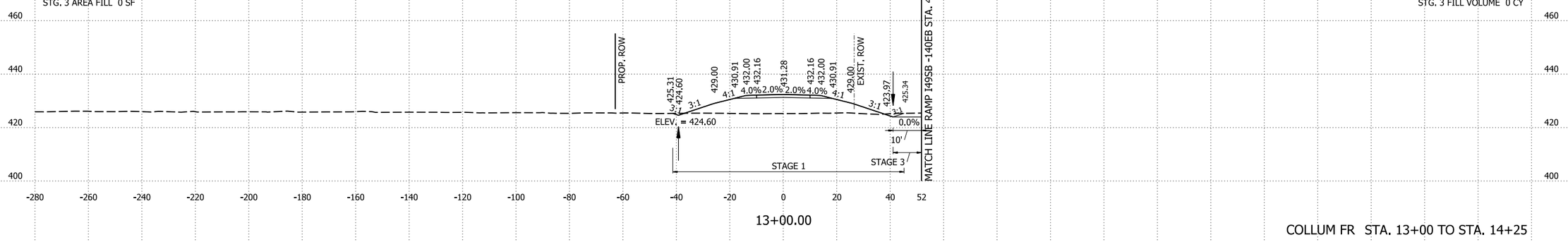
STG. 1 CUT VOLUME 15 CY
STG. 1 FILL VOLUME 1245 CY
STG. 3 CUT VOLUME 33 CY
STG. 3 FILL VOLUME 0 CY



14+00.00

STG. 1 AREA CUT 7 SF
STG. 1 AREA FILL 326 SF
STG. 3 AREA CUT 12 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 159 CY
STG. 1 FILL VOLUME 837 CY
STG. 3 CUT VOLUME 69 CY
STG. 3 FILL VOLUME 0 CY



13+00.00

COLLUM FR STA. 13+00 TO STA. 14+25

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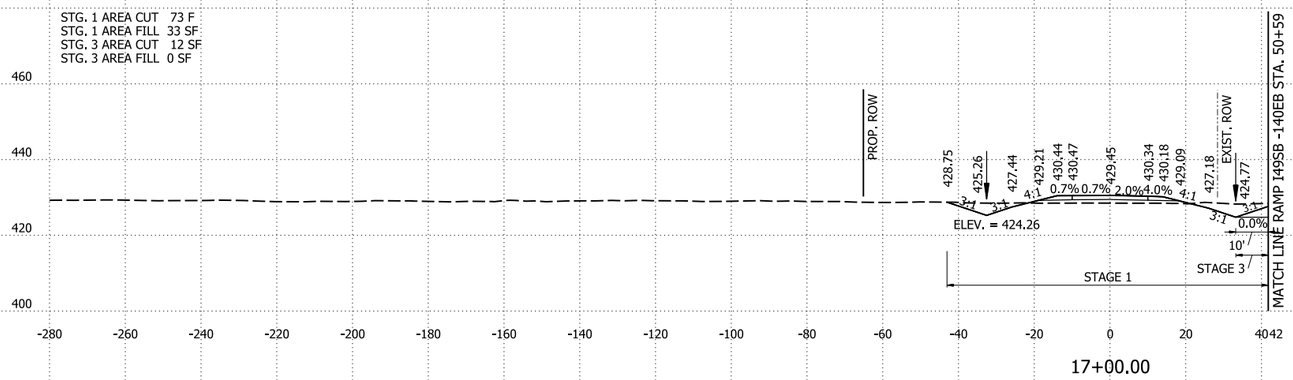
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	707	742
		CROSS SECTIONS				

STG. 1 AREA CUT 73 F
STG. 1 AREA FILL 33 SF
STG. 3 AREA CUT 12 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 306 CY
STG. 1 FILL VOLUME 154 CY
STG. 3 CUT VOLUME 54 CY
STG. 3 FILL VOLUME 0 CY

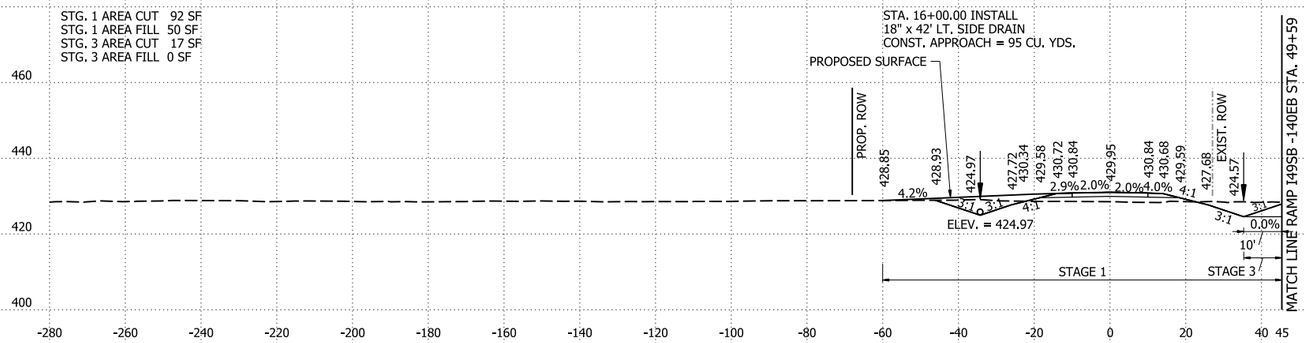


17+00.00

STG. 1 AREA CUT 92 SF
STG. 1 AREA FILL 50 SF
STG. 3 AREA CUT 17 SF
STG. 3 AREA FILL 0 SF

STA. 16+00.00 INSTALL
18" x 42' LT. SIDE DRAIN
CONST. APPROACH = 95 CU. YDS.

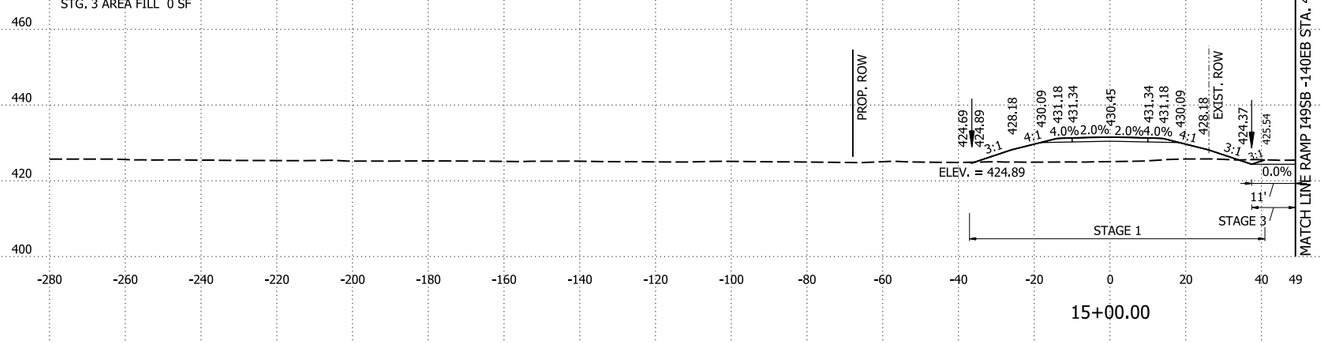
STG. 1 CUT VOLUME 179 CY
STG. 1 FILL VOLUME 594 CY
STG. 3 CUT VOLUME 51 CY
STG. 3 FILL VOLUME 0 CY



16+00.00

STG. 1 AREA CUT 4 SF
STG. 1 AREA FILL 271 SF
STG. 3 AREA CUT 11 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 9 CY
STG. 1 FILL VOLUME 851 CY
STG. 3 CUT VOLUME 27 CY
STG. 3 FILL VOLUME 0 CY



15+00.00

COLLUM FR STA. 15+00 TO STA. 17+00

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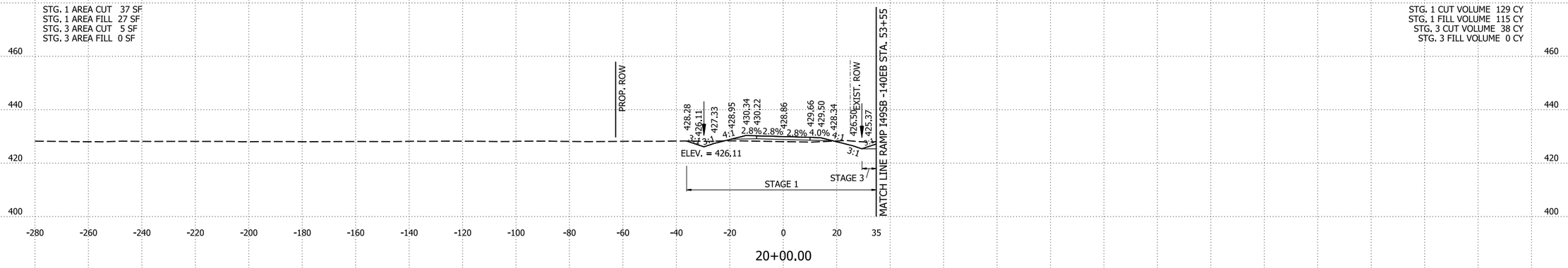
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	708	742
		CROSS SECTIONS				

STG. 1 AREA CUT 37 SF
STG. 1 AREA FILL 27 SF
STG. 3 AREA CUT 5 SF
STG. 3 AREA FILL 0 SF

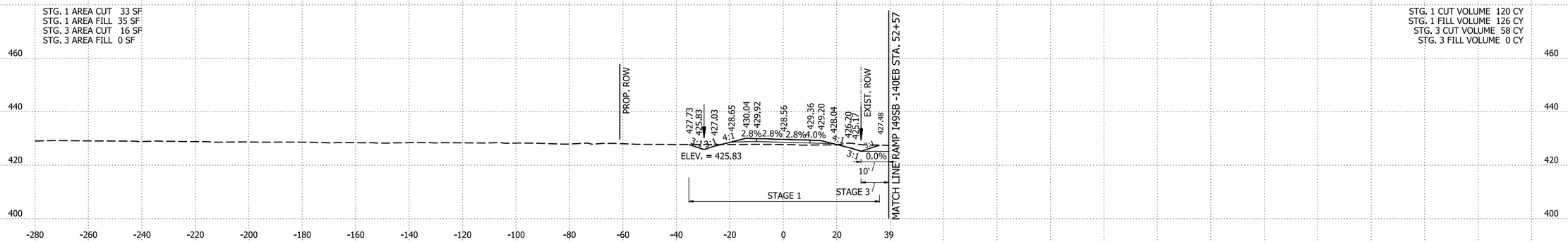
STG. 1 CUT VOLUME 129 CY
STG. 1 FILL VOLUME 115 CY
STG. 3 CUT VOLUME 38 CY
STG. 3 FILL VOLUME 0 CY



20+00.00

STG. 1 AREA CUT 33 SF
STG. 1 AREA FILL 35 SF
STG. 3 AREA CUT 16 SF
STG. 3 AREA FILL 0 SF

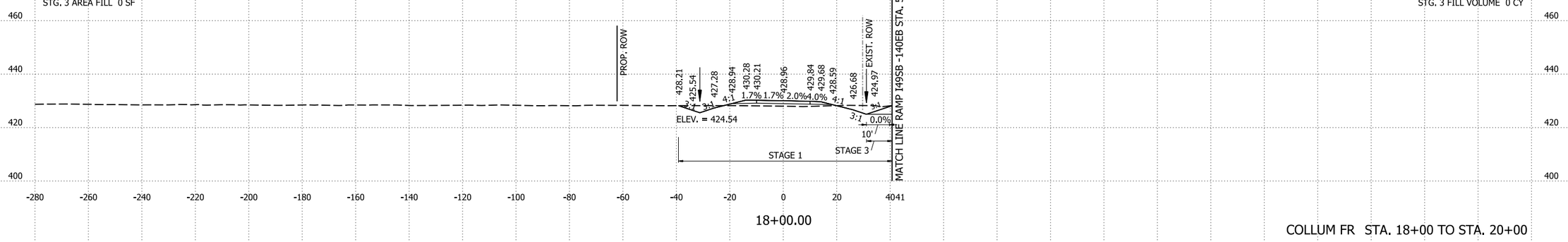
STG. 1 CUT VOLUME 120 CY
STG. 1 FILL VOLUME 126 CY
STG. 3 CUT VOLUME 58 CY
STG. 3 FILL VOLUME 0 CY



19+00.00

STG. 1 AREA CUT 32 SF
STG. 1 AREA FILL 34 SF
STG. 3 AREA CUT 15 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 194 CY
STG. 1 FILL VOLUME 123 CY
STG. 3 CUT VOLUME 51 CY
STG. 3 FILL VOLUME 0 CY



18+00.00

COLLUM FR STA. 18+00 TO STA. 20+00

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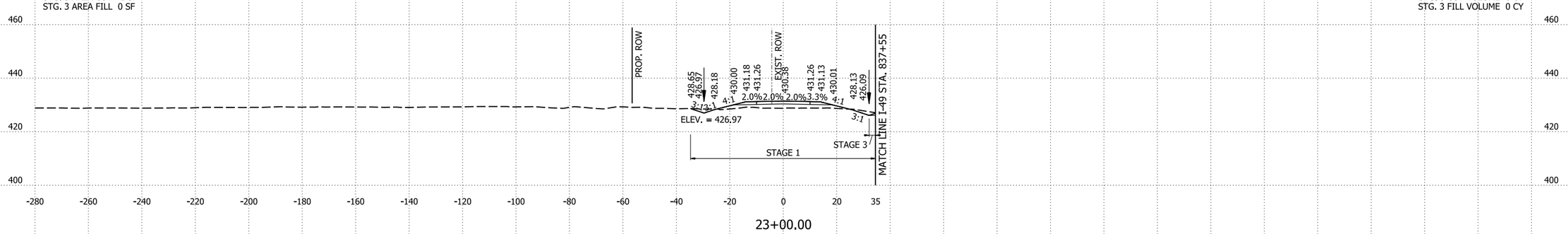
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	709	742
		CROSS SECTIONS				

STG. 1 AREA CUT 14 SF
STG. 1 AREA FILL 59 SF
STG. 3 AREA CUT 1 SF
STG. 3 AREA FILL 0 SF

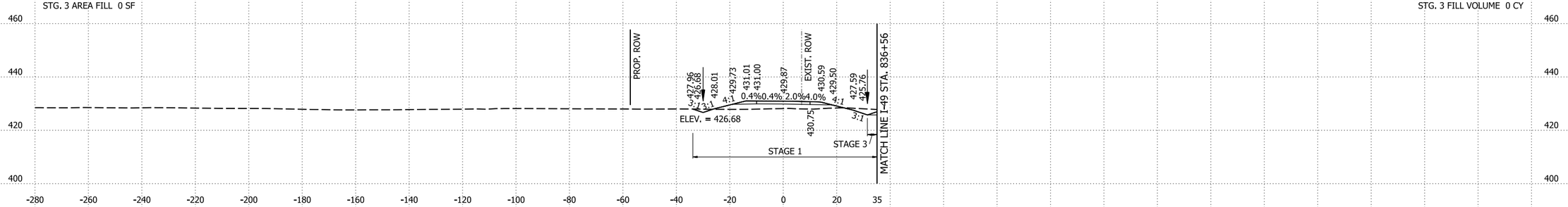
STG. 1 CUT VOLUME 63 CY
STG. 1 FILL VOLUME 247 CY
STG. 3 CUT VOLUME 6 CY
STG. 3 FILL VOLUME 0 CY



23+00.00

STG. 1 AREA CUT 19 SF
STG. 1 AREA FILL 75 SF
STG. 3 AREA CUT 2 SF
STG. 3 AREA FILL 0 SF

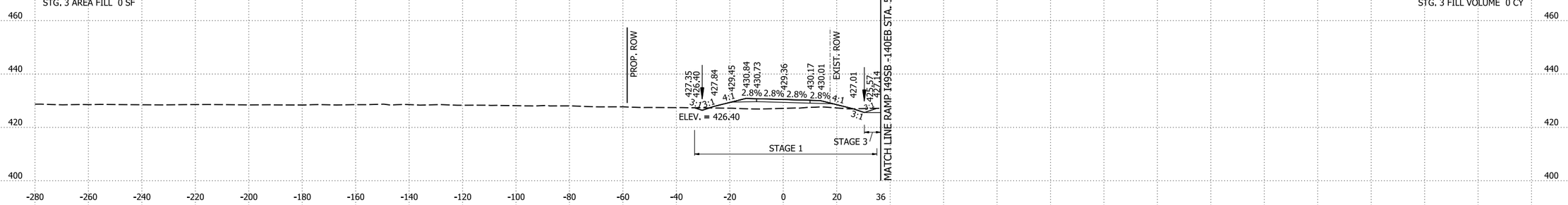
STG. 1 CUT VOLUME 53 CY
STG. 1 FILL VOLUME 317 CY
STG. 3 CUT VOLUME 15 CY
STG. 3 FILL VOLUME 0 CY



22+00.00

STG. 1 AREA CUT 9 SF
STG. 1 AREA FILL 97 SF
STG. 3 AREA CUT 6 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 85 CY
STG. 1 FILL VOLUME 230 CY
STG. 3 CUT VOLUME 20 CY
STG. 3 FILL VOLUME 0 CY



21+00.00

COLLUM FR STA. 21+00 TO STA. 23+00

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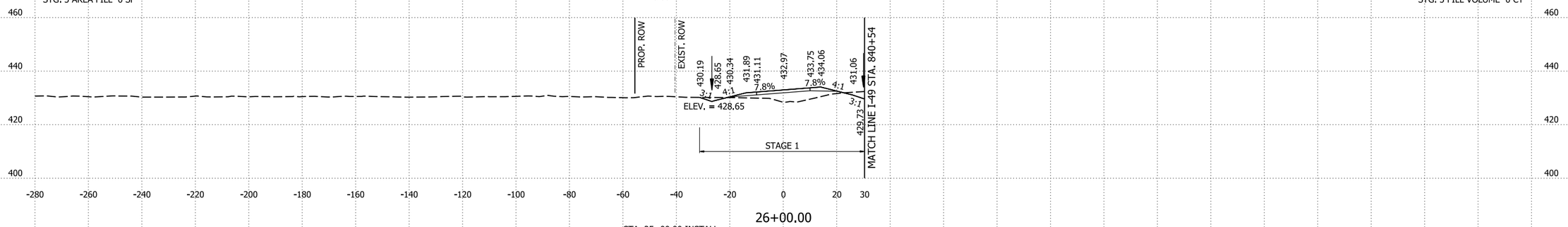
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	710	742
		CROSS SECTIONS				

STG. 1 AREA CUT 17 SF
STG. 1 AREA FILL 83 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STA. 26+25.00
END SP. DITCH LT. 0.70%
ELEV. = 428.83

STG. 1 CUT VOLUME 59 CY
STG. 1 FILL VOLUME 339 CY
STG. 3 CUT VOLUME 12 CY
STG. 3 FILL VOLUME 0 CY

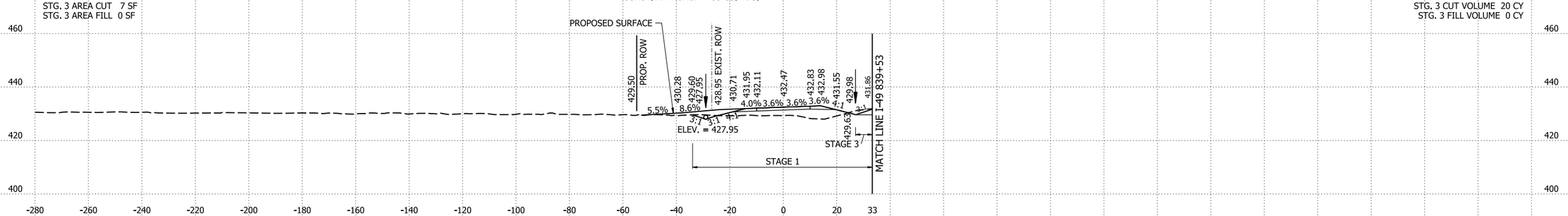


26+00.00

STG. 1 AREA CUT 15 SF
STG. 1 AREA FILL 100 SF
STG. 3 AREA CUT 7 SF
STG. 3 AREA FILL 0 SF

STA. 25+00.00 INSTALL
18" x 30' LT. SIDE DRAIN
CONST. APPROACH = 35 CU. YDS.

STG. 1 CUT VOLUME 53 CY
STG. 1 FILL VOLUME 324 CY
STG. 3 CUT VOLUME 20 CY
STG. 3 FILL VOLUME 0 CY

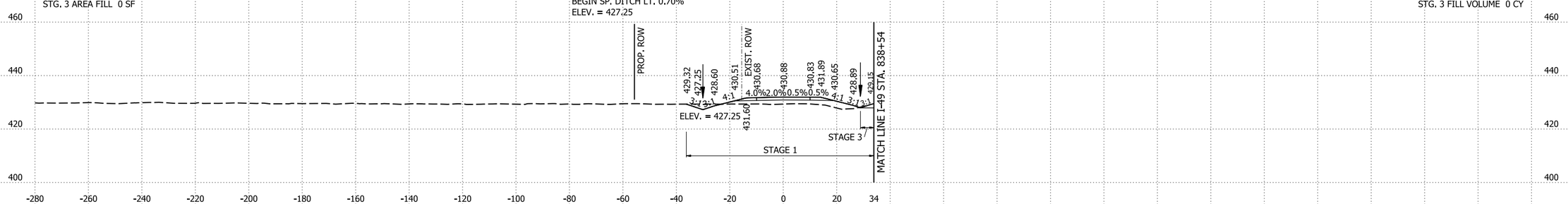


25+00.00

STG. 1 AREA CUT 18 SF
STG. 1 AREA FILL 75 SF
STG. 3 AREA CUT 4 SF
STG. 3 AREA FILL 0 SF

STA. 24+00.00
END SP. DITCH LT. 0.28%
BEGIN SP. DITCH LT. 0.70%
ELEV. = 427.25

STG. 1 CUT VOLUME 52 CY
STG. 1 FILL VOLUME 248 CY
STG. 3 CUT VOLUME 9 CY
STG. 3 FILL VOLUME 0 CY



24+00.00

COLLUM FR STA. 24+00 TO STA. 26+00

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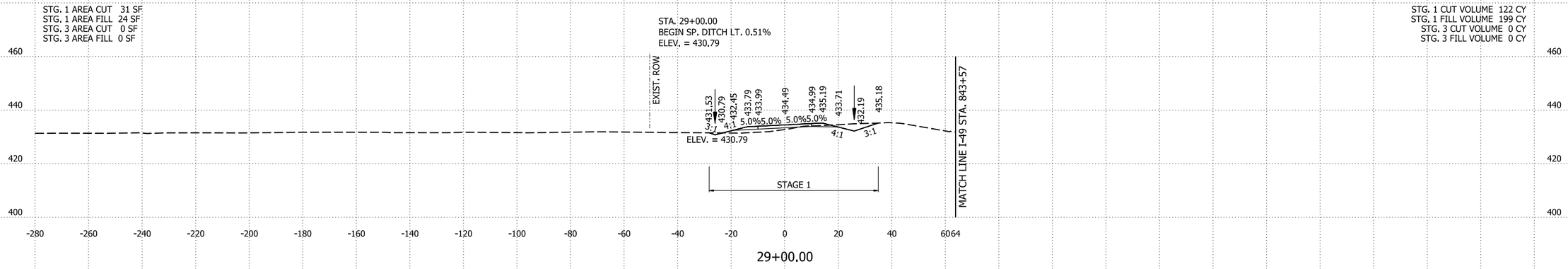
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	711	742
		CROSS SECTIONS				

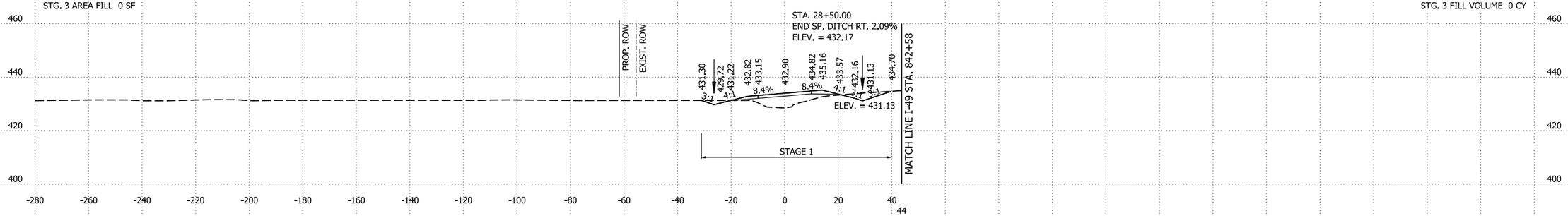
STG. 1 AREA CUT 31 SF
STG. 1 AREA FILL 24 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 122 CY
STG. 1 FILL VOLUME 199 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



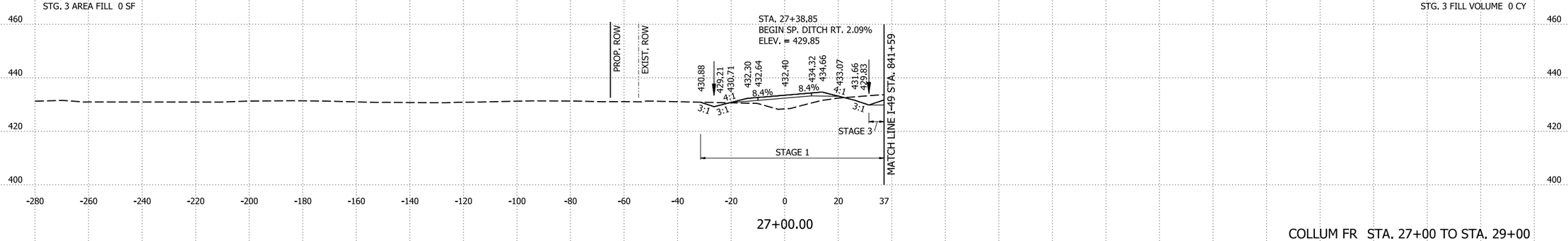
STG. 1 AREA CUT 35 SF
STG. 1 AREA FILL 83 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 137 CY
STG. 1 FILL VOLUME 314 CY
STG. 3 CUT VOLUME 10 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 39 SF
STG. 1 AREA FILL 87 SF
STG. 3 AREA CUT 5 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 103 CY
STG. 1 FILL VOLUME 314 CY
STG. 3 CUT VOLUME 10 CY
STG. 3 FILL VOLUME 0 CY



COLLUM FR STA. 27+00 TO STA. 29+00

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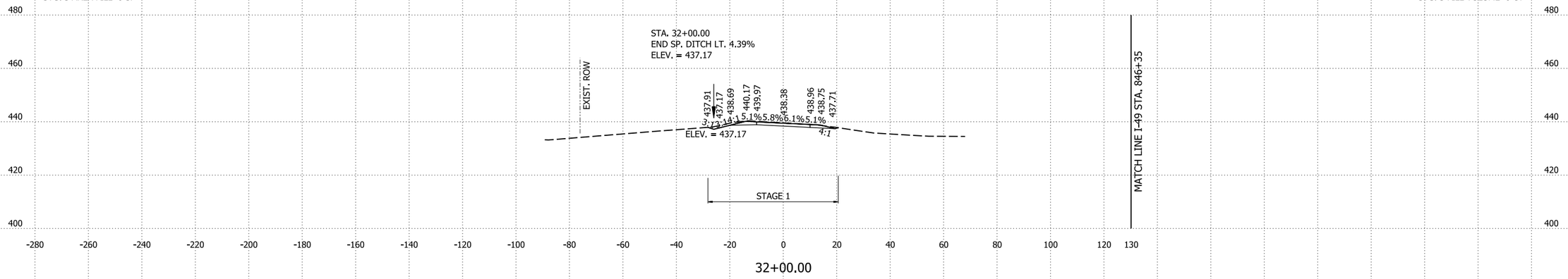
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	712	742
		CROSS SECTIONS				

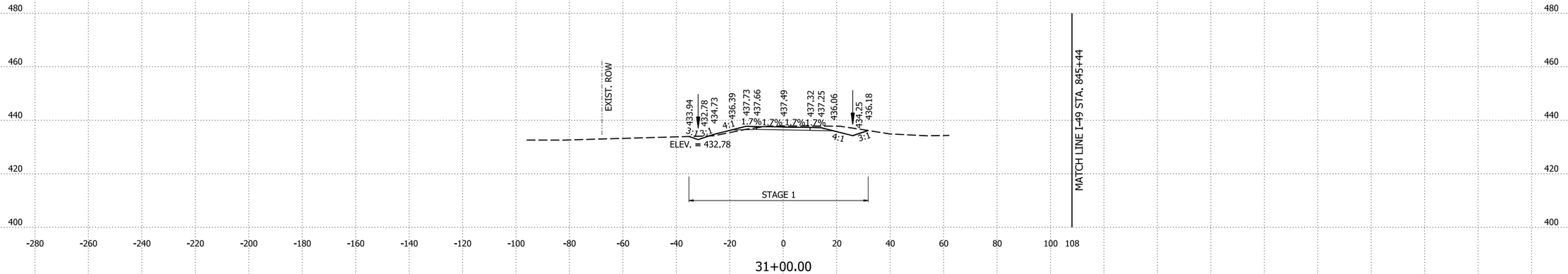
STG. 1 AREA CUT 52 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 233 CY
STG. 1 FILL VOLUME 13 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



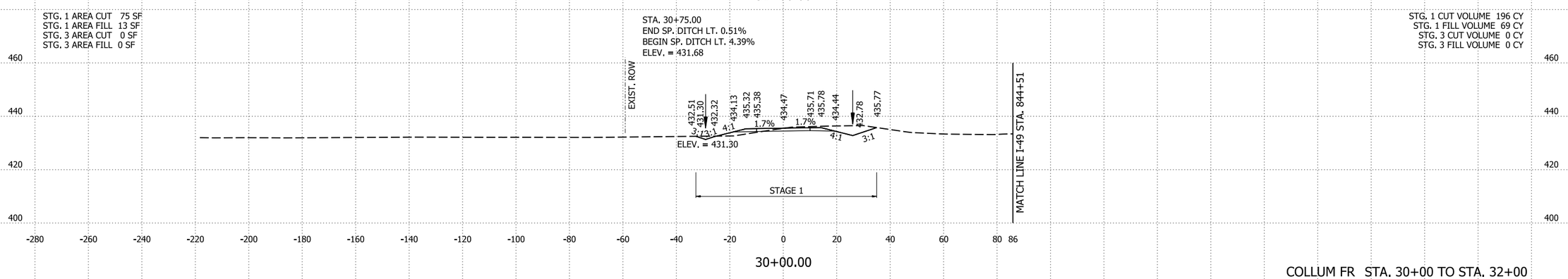
STG. 1 AREA CUT 74 SF
STG. 1 AREA FILL 7 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 277 CY
STG. 1 FILL VOLUME 37 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 75 SF
STG. 1 AREA FILL 13 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 196 CY
STG. 1 FILL VOLUME 69 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



COLLUM FR STA. 30+00 TO STA. 32+00

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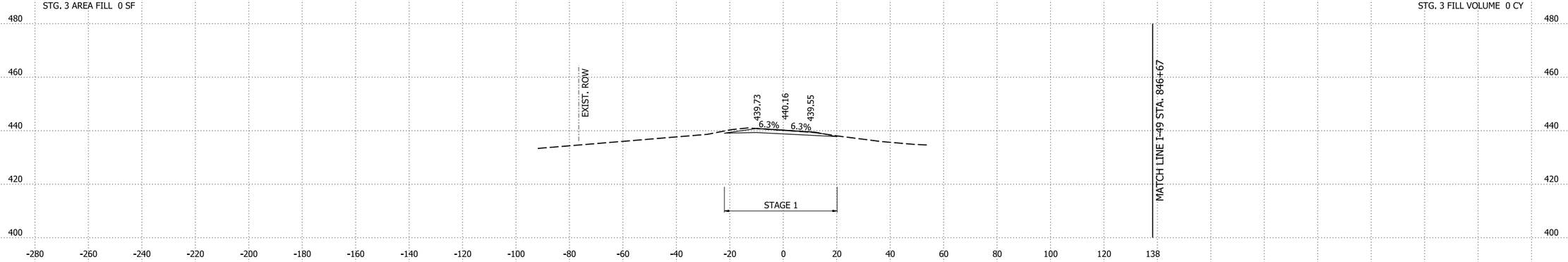
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	713	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 35 CY
STG. 1 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



32+36.54
END COLLUM FR

COLLUM FR STA. 32+36.54 TO STA. 32+36.54

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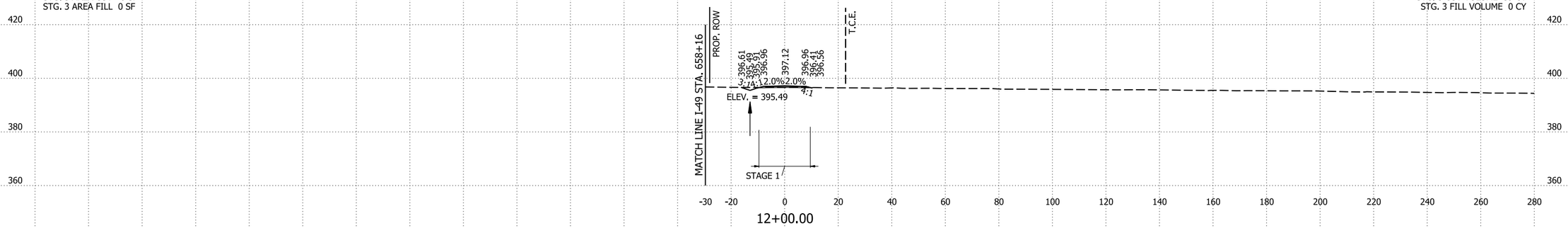
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	714	742
		CROSS SECTIONS				

STG. 1 AREA CUT 5 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

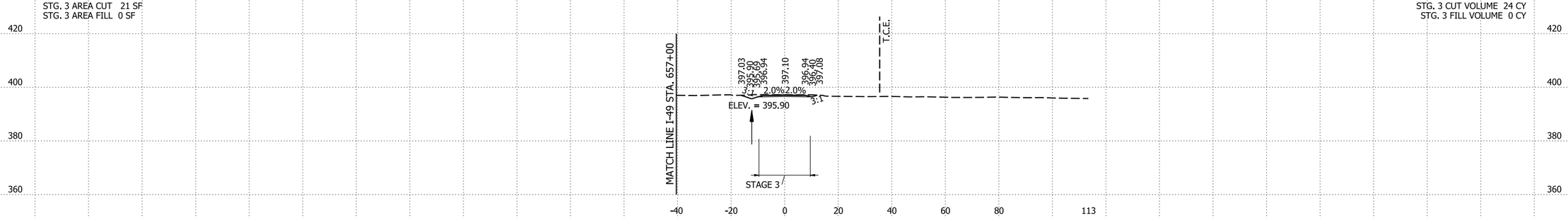
STG. 1 CUT VOLUME 9 CY
STG. 1 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 39 CY
STG. 3 FILL VOLUME 0 CY



12+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 21 SF
STG. 3 AREA FILL 0 SF

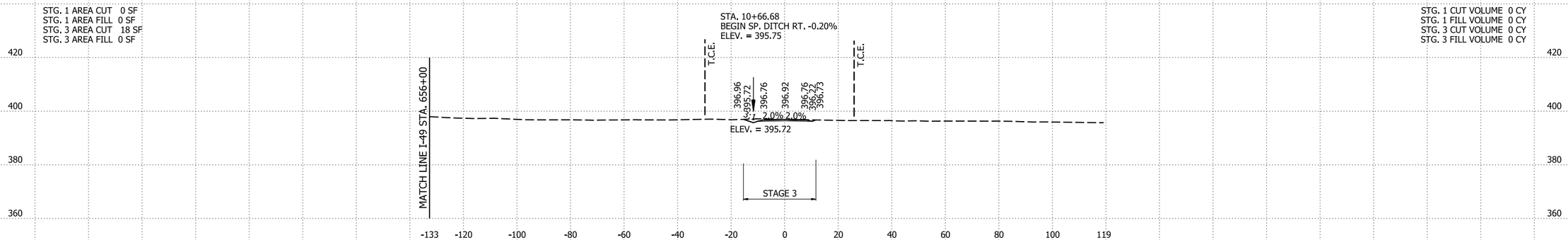
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 24 CY
STG. 3 FILL VOLUME 0 CY



11+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 18 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



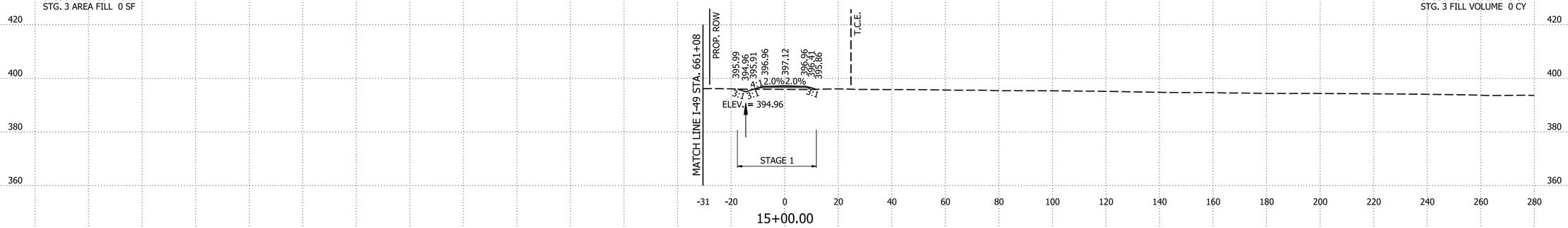
10+66.68
BEGIN DRIVEWAY 7

DRIVEWAY 7 STA. 10+66.68 TO STA. 12+00

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	715	742
		CROSS SECTIONS				

STG. 1 AREA CUT 3 SF
STG. 1 AREA FILL 14 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

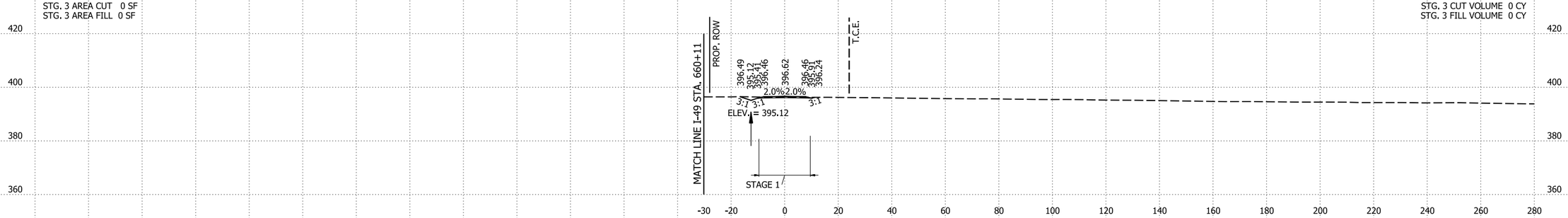
STG. 1 CUT VOLUME 24 CY
STG. 1 FILL VOLUME 27 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



15+00.00

STG. 1 AREA CUT 10 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 43 CY
STG. 1 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY

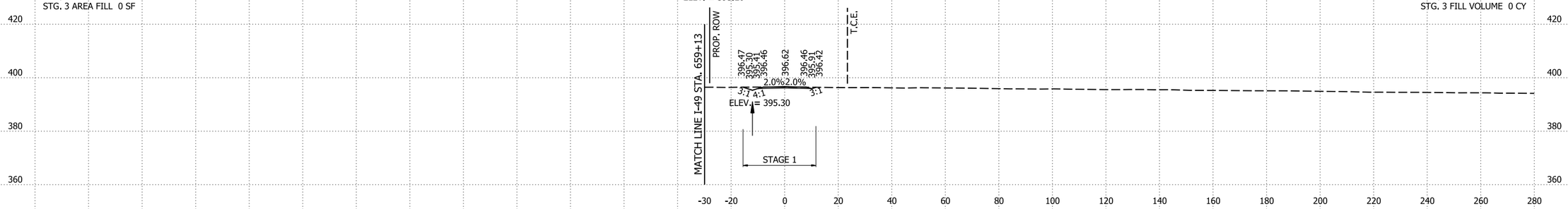


14+00.00

STA. 13+50.00
END SP. DITCH LT. -0.20%
BEGIN SP. DITCH RT. -0.16%
ELEV. = 395.20

STG. 1 AREA CUT 13 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 33 CY
STG. 1 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



13+00.00

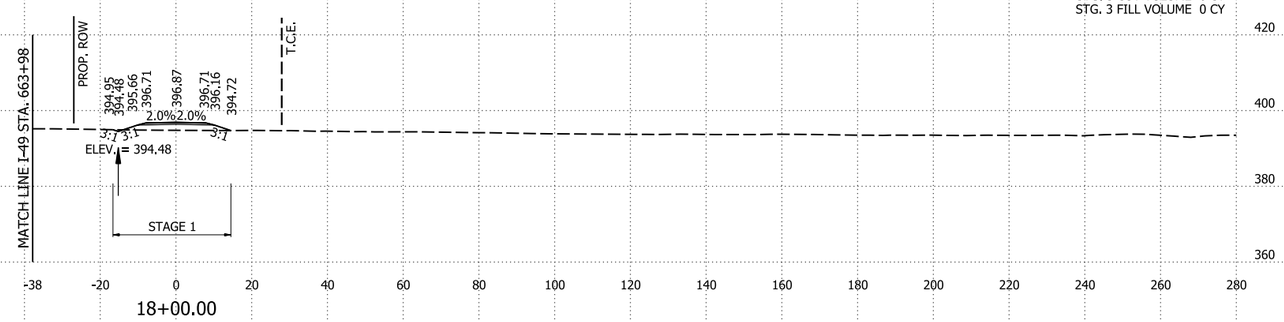
DRIVEWAY 7 STA. 13+00 TO STA. 15+00

4/30/2026 8:16:33 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	716	742
		CROSS SECTIONS				

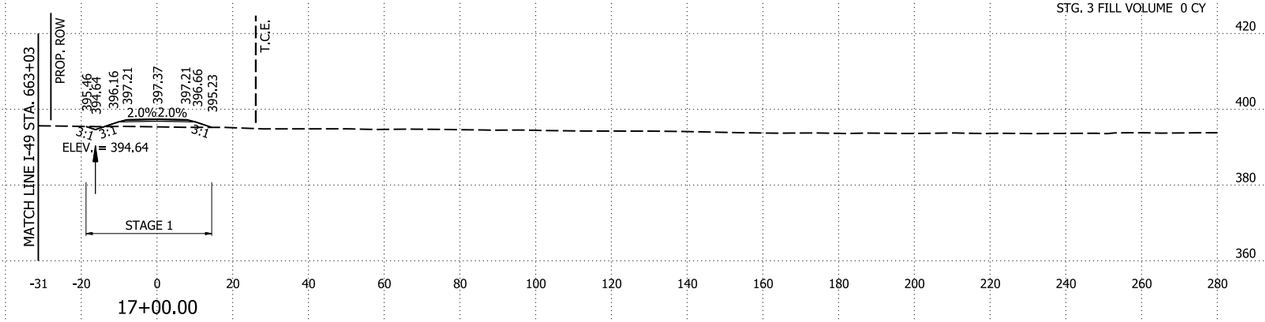
STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 36 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 5 CY
STG. 1 FILL VOLUME 128 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



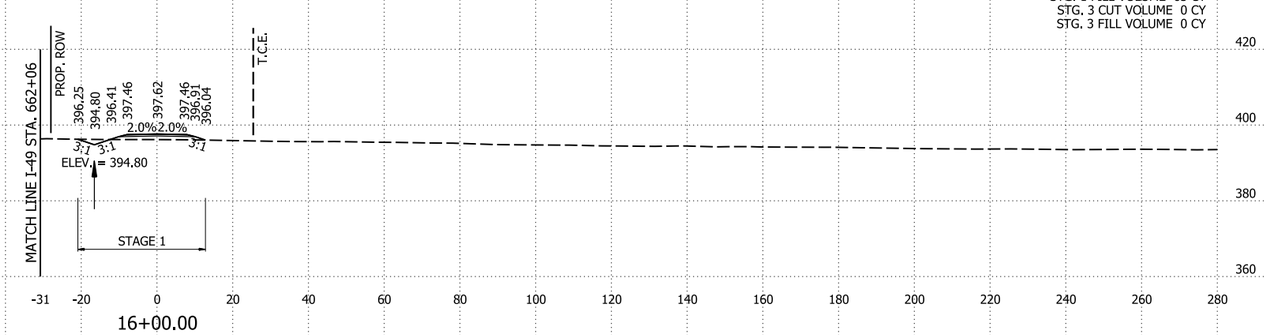
STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 34 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 15 CY
STG. 1 FILL VOLUME 99 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 6 SF
STG. 1 AREA FILL 20 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 16 CY
STG. 1 FILL VOLUME 63 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



DRIVEWAY 7 STA. 16+00 TO STA. 18+00

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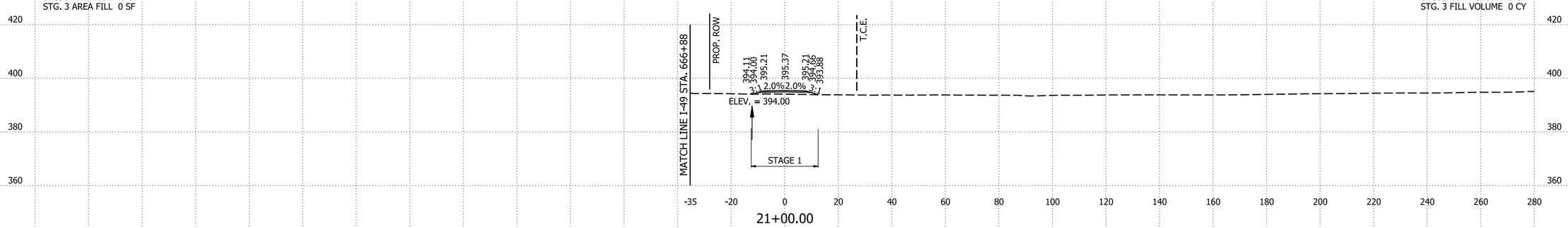
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	717	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 15 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STA. 21+00.00
END SP. DITCH LT. -0.16%
BEGIN SP. DITCH RT. -0.26%
ELEV. = 394.00

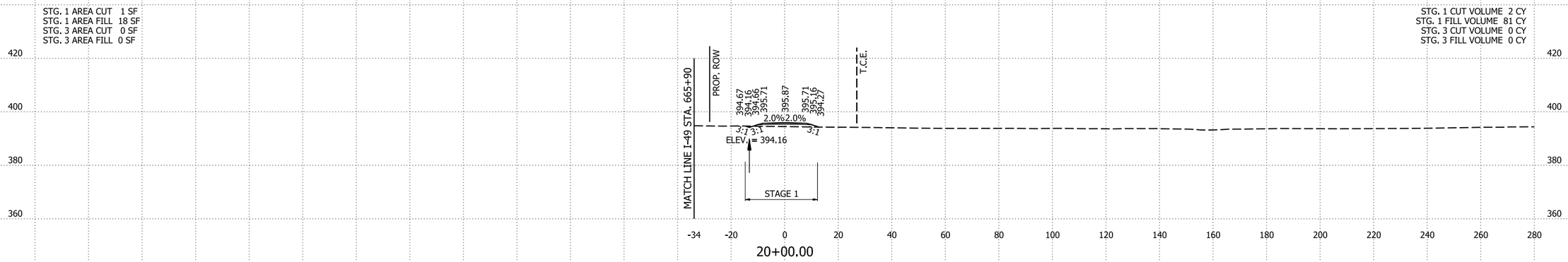
STA. 21+25.00
BEGIN SP. DITCH RT. -0.25%
ELEV. = 393.74

STG. 1 CUT VOLUME 1 CY
STG. 1 FILL VOLUME 62 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



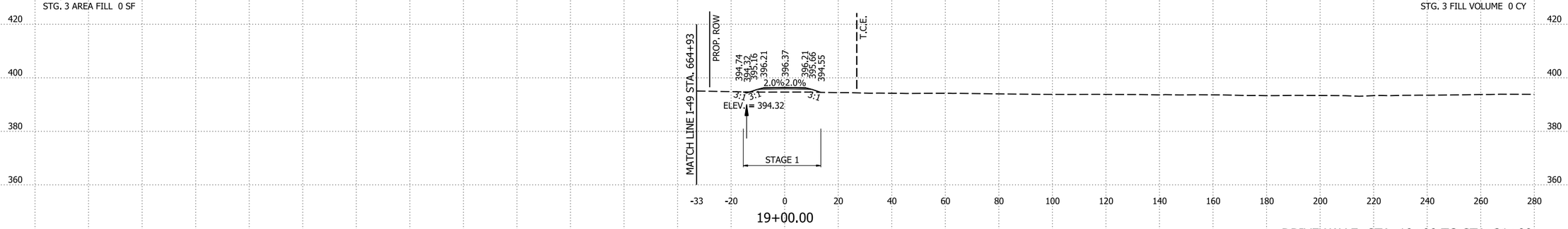
STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 18 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 81 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 26 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 113 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



DRIVEWAY 7 STA. 19+00 TO STA. 21+00

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	718	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 124 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

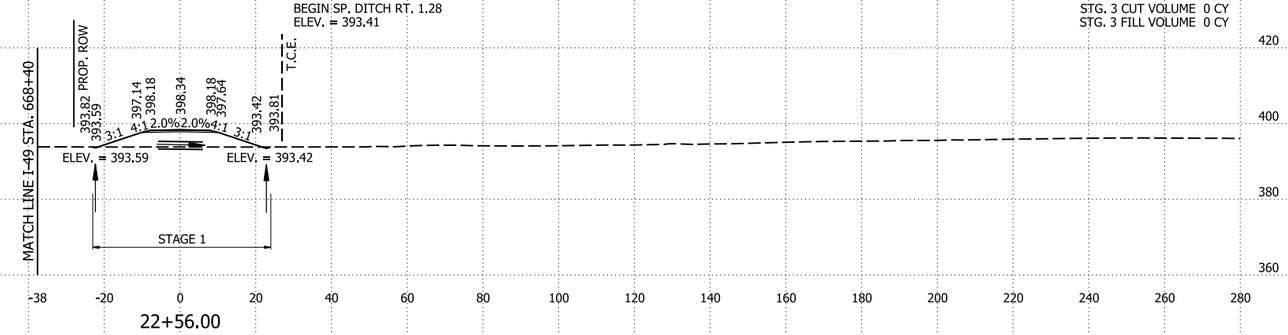
STA. 22+89.00
END SP. DITCH LT. -0.26%
ELEV. = 393.50

STA. 22+56.25 CONSTRUCT
DBL. 24" X 74' SIDE DRAIN

STA. 22+90.00
END SP. DITCH RT. 1.28%
ELEV. = 393.84

STA. 22+56.13
END SP. DITCH RT. -0.25%
BEGIN SP. DITCH RT. 1.28
ELEV. = 393.41

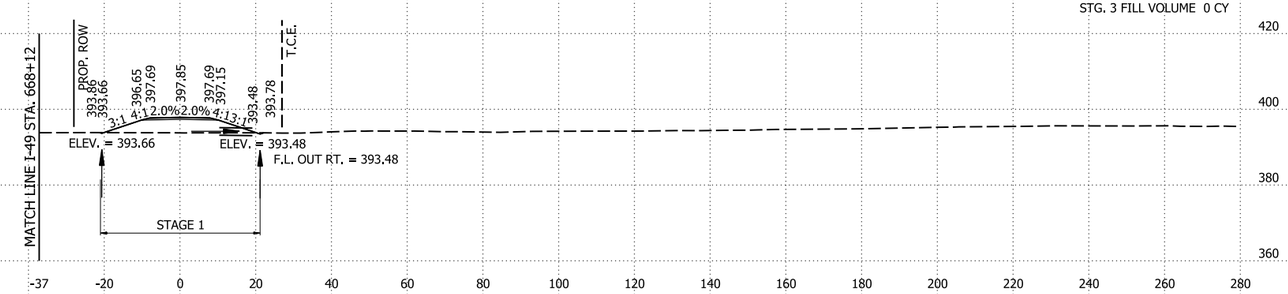
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 124 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



22+56.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 104 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

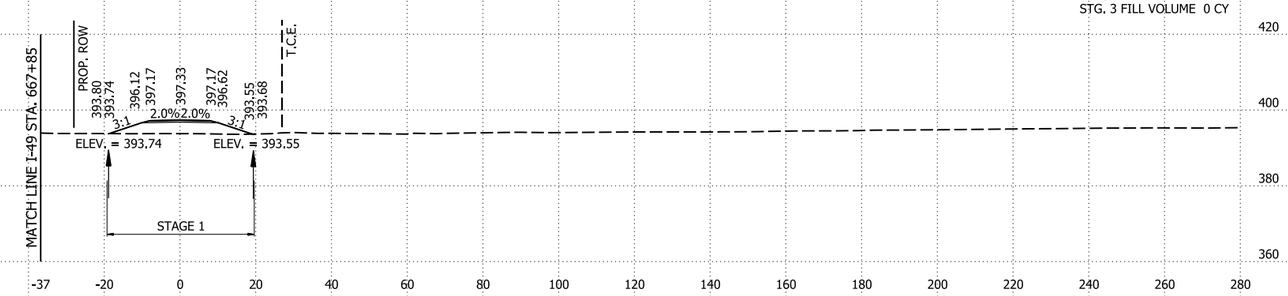
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 95 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



22+26.94

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 86F
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 188 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



22+00.00

DRIVEWAY 7 STA. 22+00 TO STA. 22+56.00

4/30/2026 8:16:34 AM
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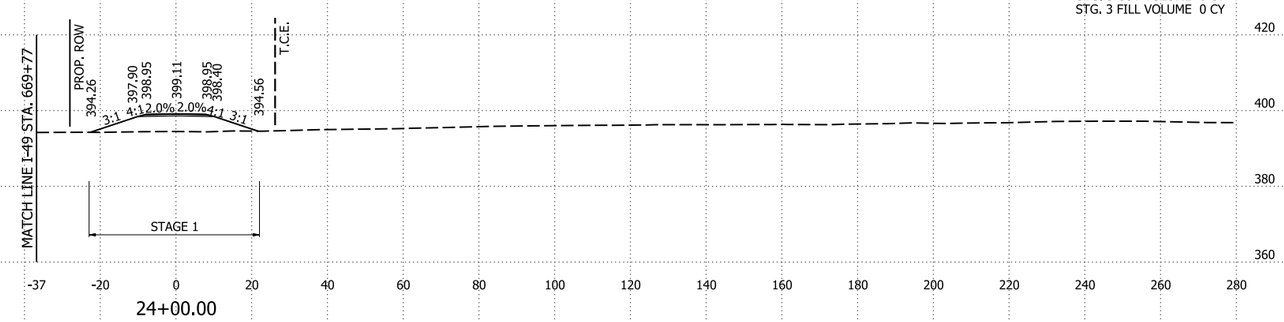
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	719	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 130 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

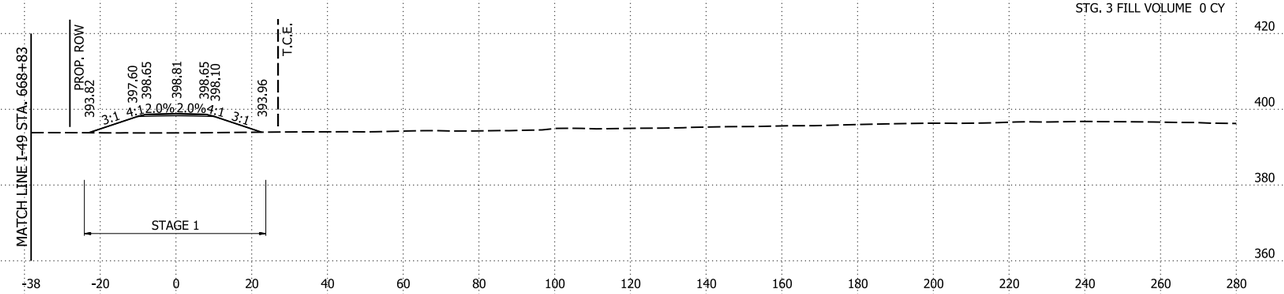
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 508 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



24+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 144 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

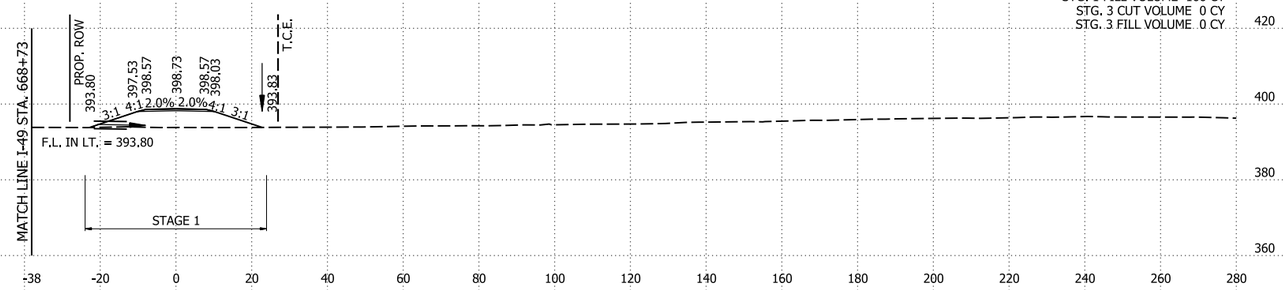
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 52 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



23+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 140 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 166 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



22+90.19

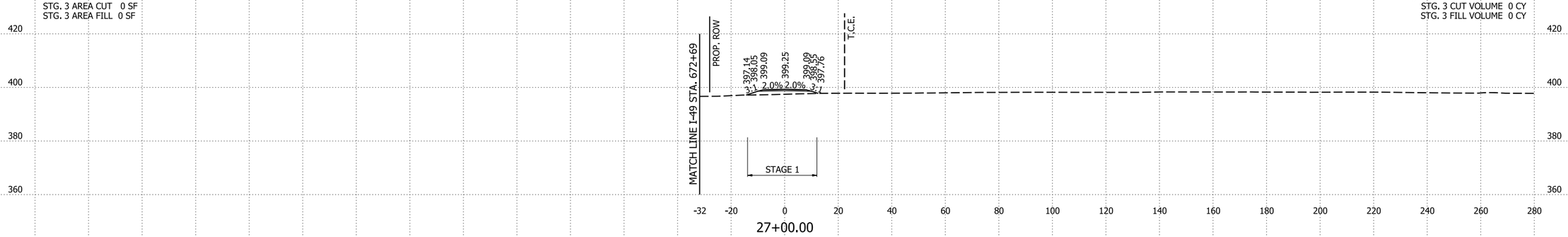
DRIVEWAY 7 STA. 22+90.19 TO STA. 24+00

4/30/2026 8:16:35 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	720	742
		CROSS SECTIONS				

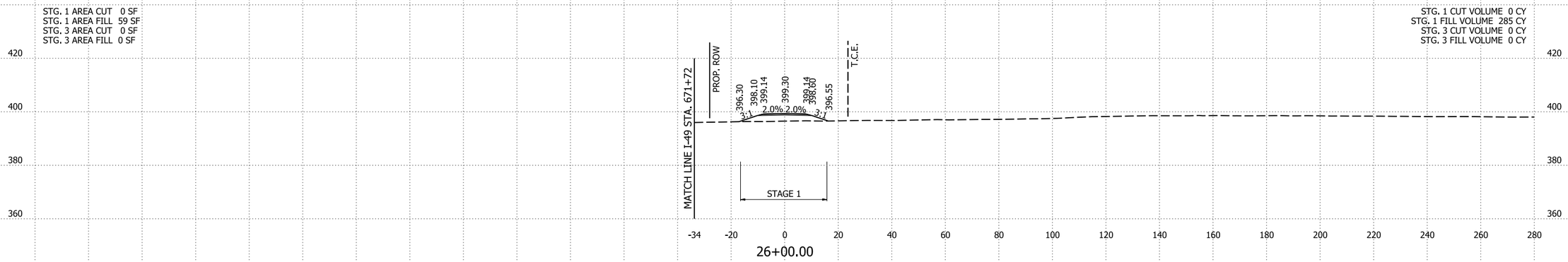
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 28 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 161 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



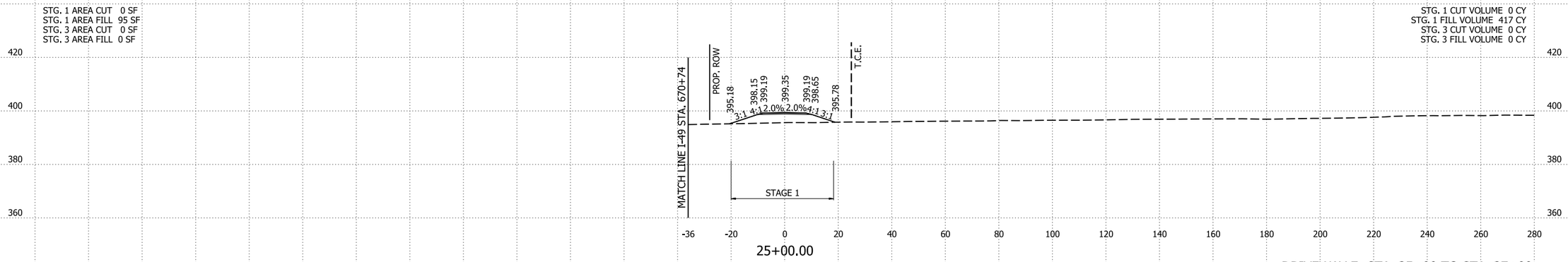
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 59 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 285 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 95 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 417 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



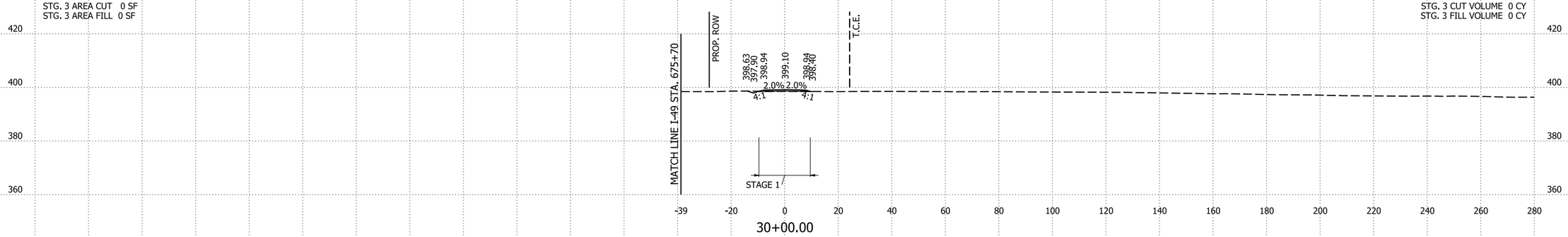
DRIVEWAY 7 STA. 25+00 TO STA. 27+00

4/30/2026 8:16:35 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	721	742
		CROSS SECTIONS				

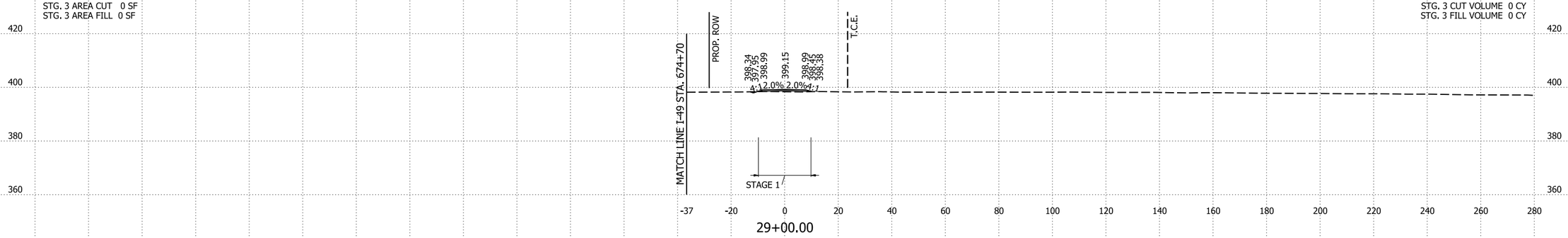
STG. 1 AREA CUT 2 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 5 CY
STG. 1 FILL VOLUME 8 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



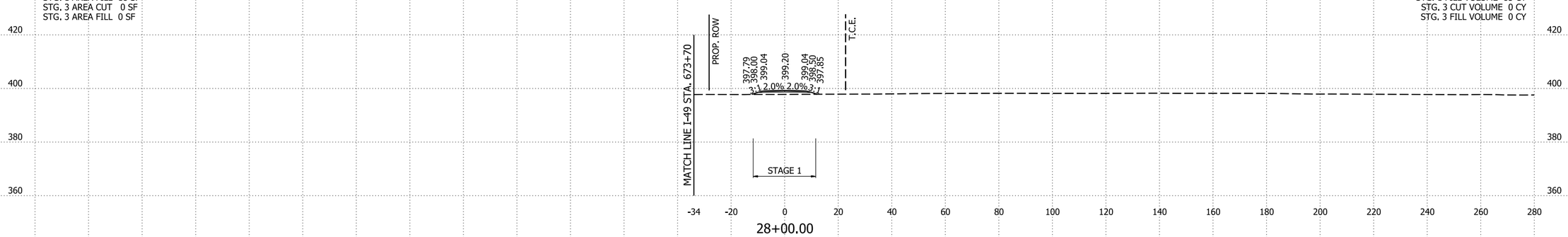
STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 4 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 1 CY
STG. 1 FILL VOLUME 40 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 18 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 85 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



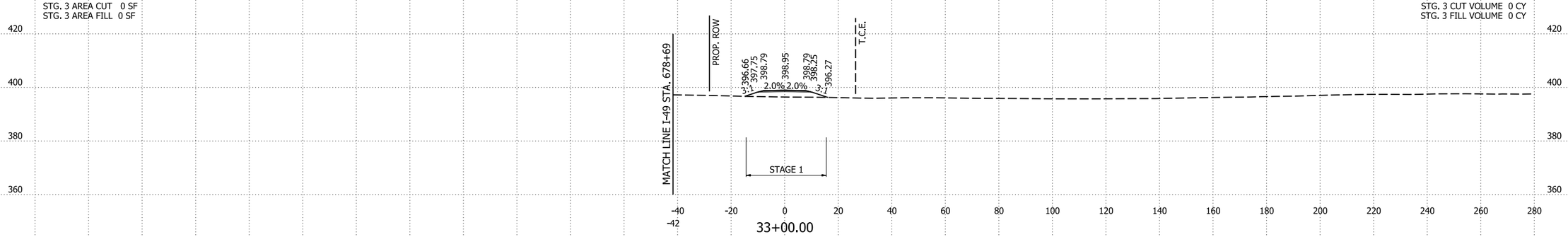
DRIVEWAY 7 STA. 28+00 TO STA. 30+00

4/30/2026 8:16:35 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	722	742
		CROSS SECTIONS				

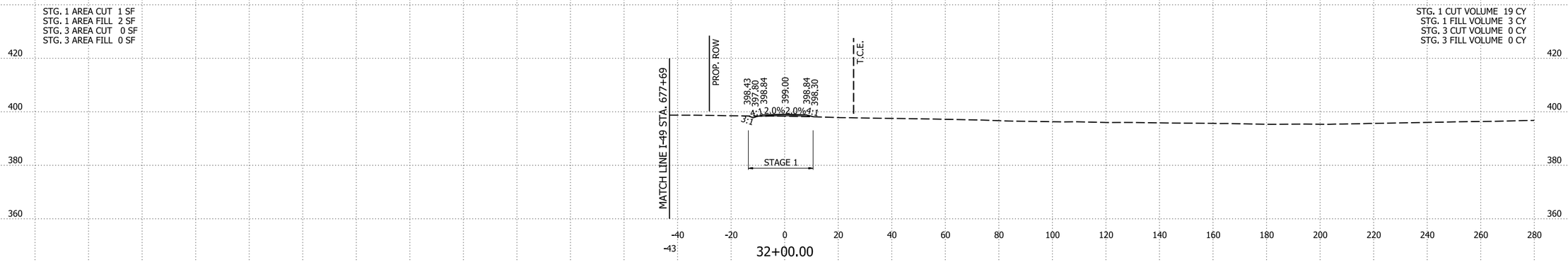
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 48 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 2 CY
STG. 1 FILL VOLUME 93 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



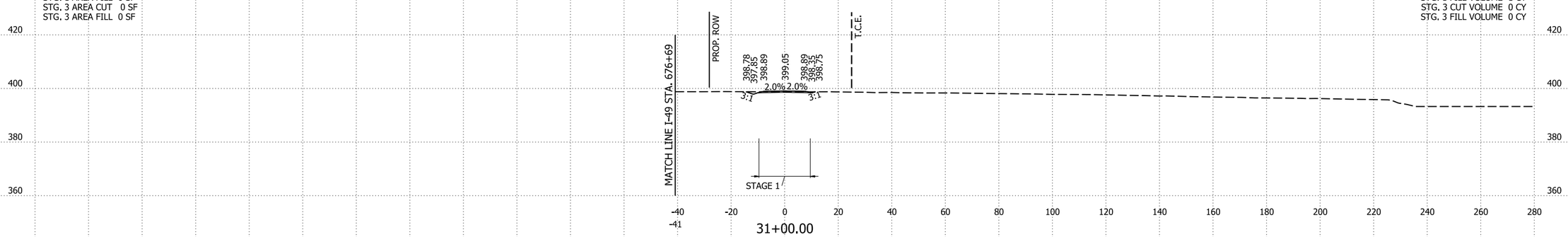
STG. 1 AREA CUT 1 SF
STG. 1 AREA FILL 2 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 19 CY
STG. 1 FILL VOLUME 3 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 9 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 20 CY
STG. 1 FILL VOLUME 1 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



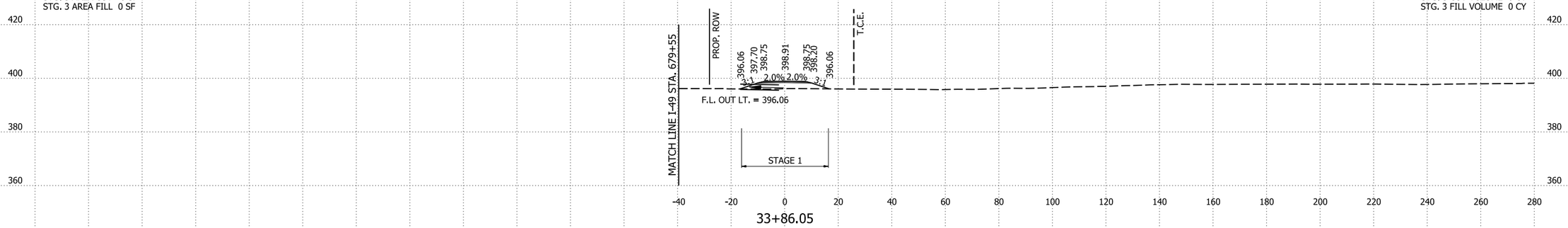
DRIVEWAY 7 STA. 31+00 TO STA. 33+00

4/30/2026 8:16:35 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	723	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 59 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 23 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY

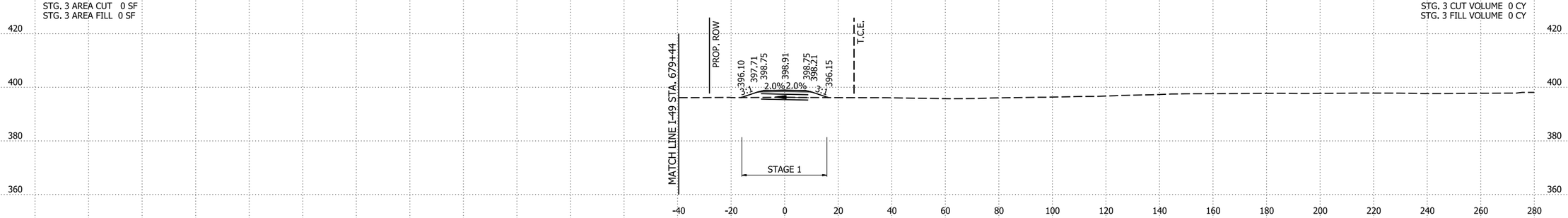


33+86.05

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 55 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STA. 33+75.00 CONSTRUCT
DBL. 24" X 34' SIDE DRAIN

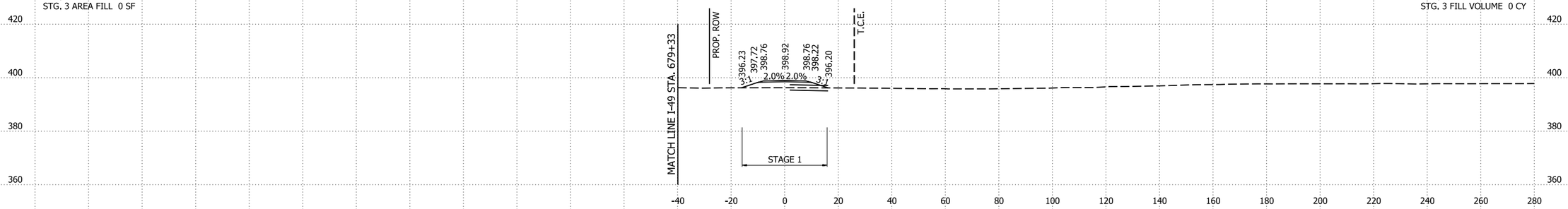
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 22 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



33+75.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 54 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 122 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



33+64.18

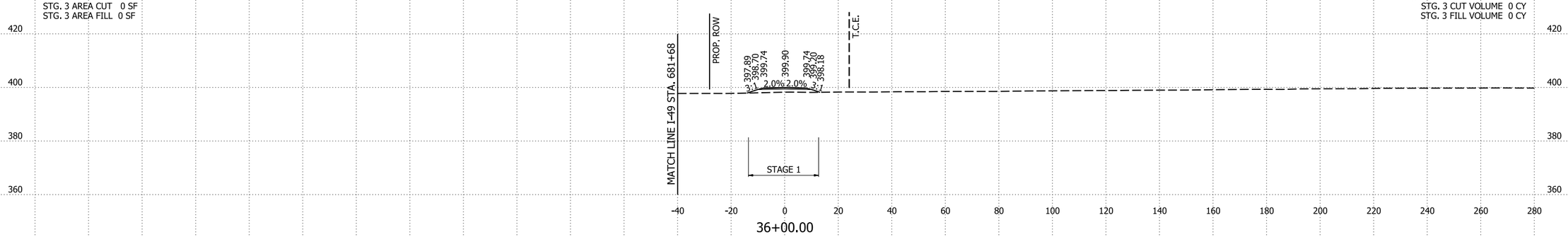
DRIVEWAY 7 STA. 33+64.18 TO STA. 33+86.05

4/30/2026 8:16:36 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	724	742
		CROSS SECTIONS				

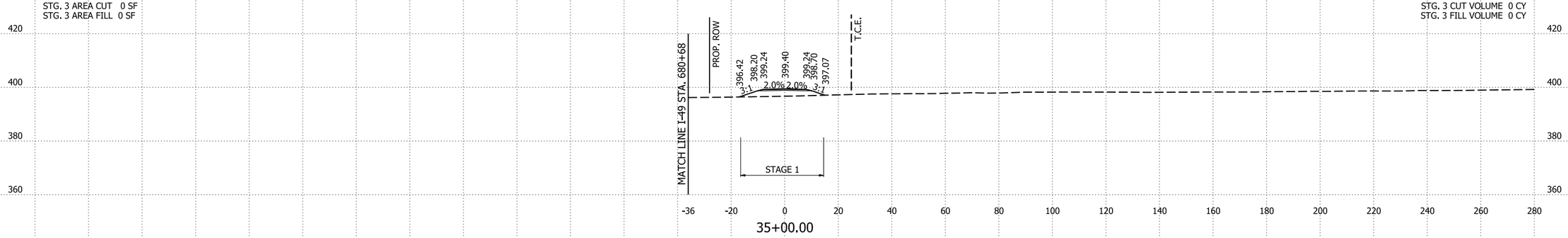
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 27 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 151 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



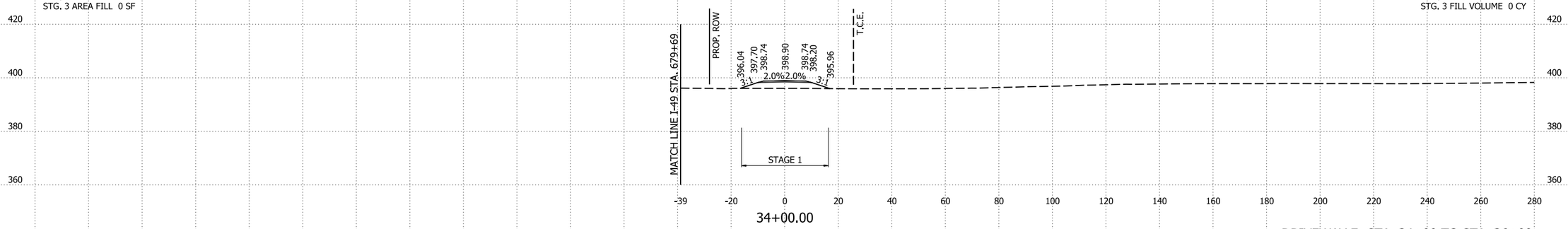
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 54 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 213 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 60 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 31 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



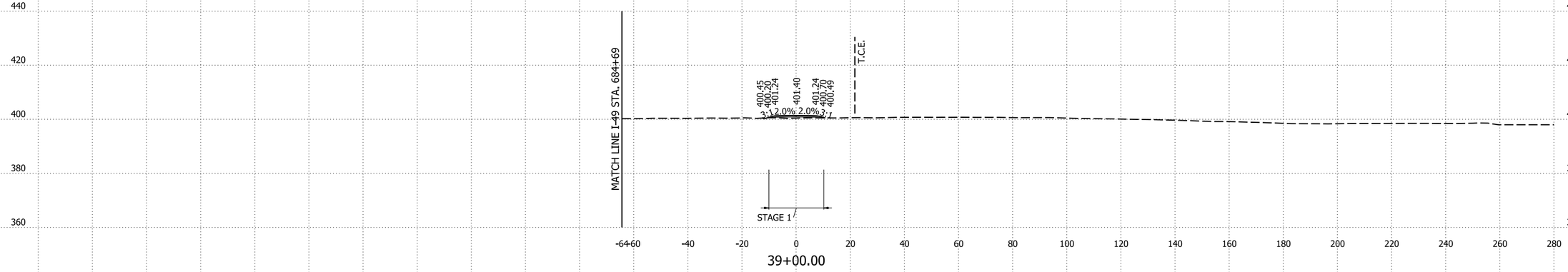
DRIVEWAY 7 STA. 34+00 TO STA. 36+00

4/30/2026 8:16:36 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	725	742
		CROSS SECTIONS				

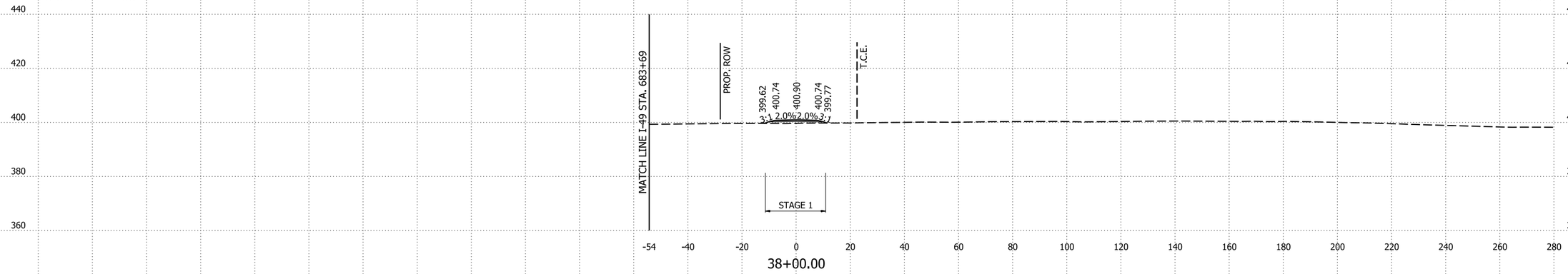
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 7 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 37 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



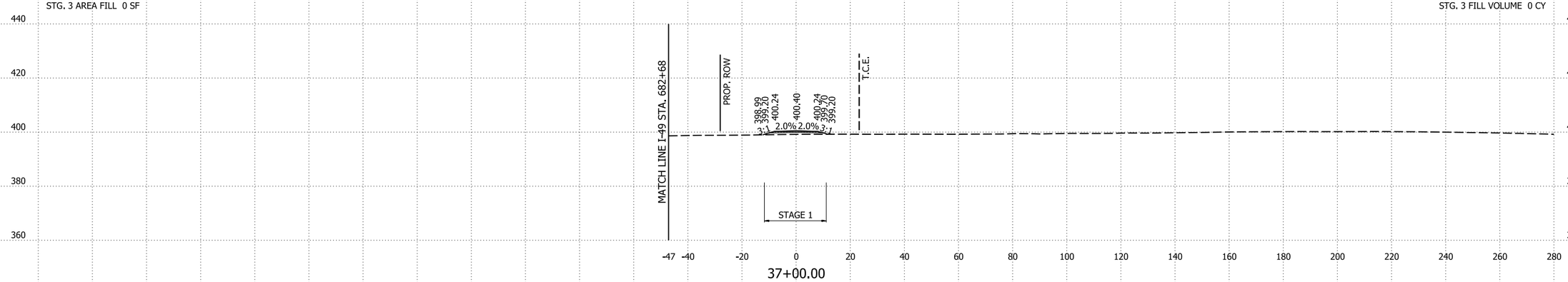
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 13 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 51 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 14 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 77 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



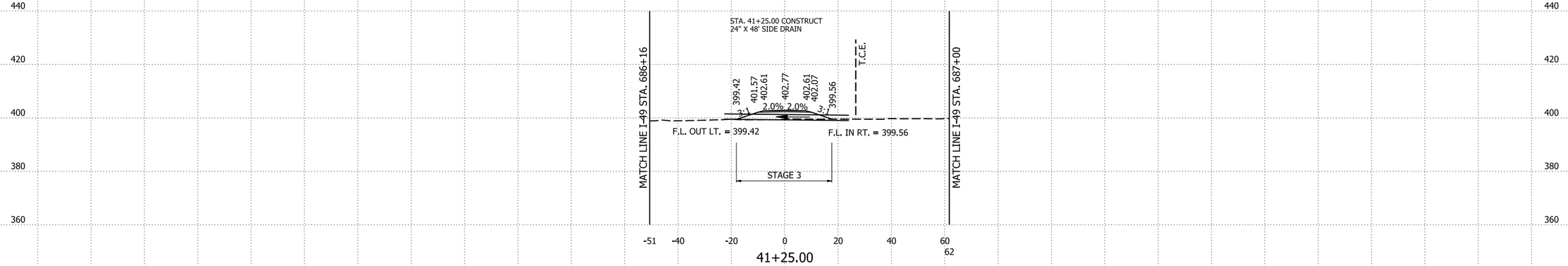
DRIVEWAY 7 STA. 37+00 TO STA. 39+00

4/30/2026 8:16:36 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	726	742
		CROSS SECTIONS				

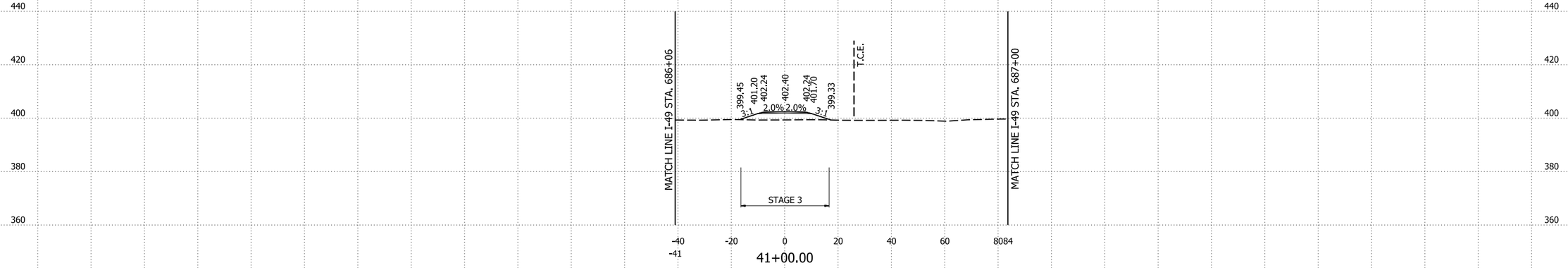
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 76 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 66 CY



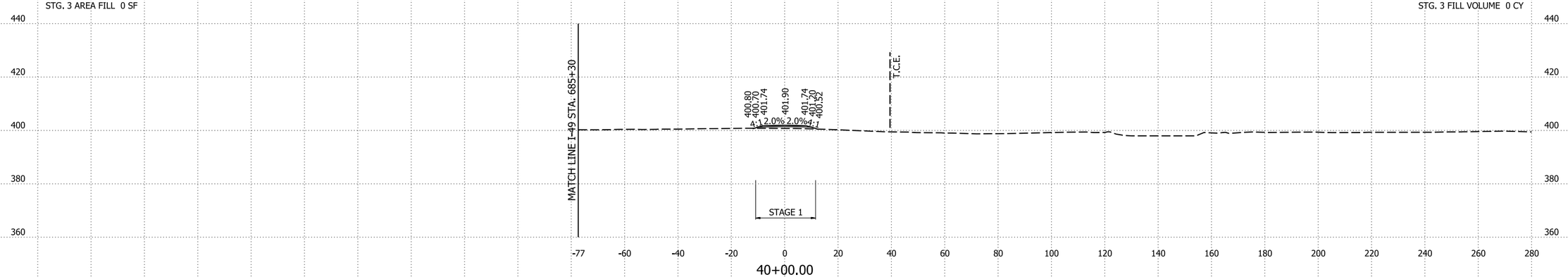
STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 66 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 23 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 122 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 12 SF
STG. 3 AREA CUT 0 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 35 CY
STG. 3 CUT VOLUME 0 CY
STG. 3 FILL VOLUME 0 CY



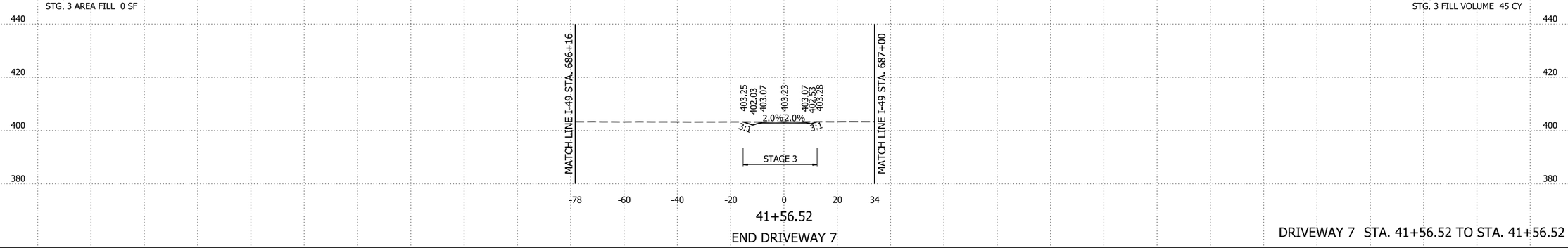
DRIVEWAY 7 STA. 40+00 TO STA. 41+25

4/30/2026 8:16:37 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	727	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 0 SF
STG. 3 AREA CUT 17 SF
STG. 3 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY
STG. 3 CUT VOLUME 10 CY
STG. 3 FILL VOLUME 45 CY



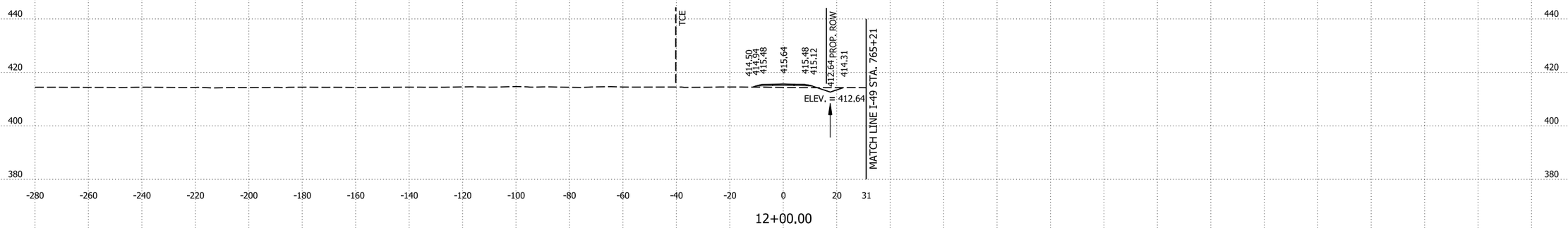
DRIVEWAY 7 STA. 41+56.52 TO STA. 41+56.52

4/30/2026 8:16:37 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	728	742
		CROSS SECTIONS				

STG. 1 AREA CUT 8 SF
STG. 1 AREA FILL 15 SF

STG. 1 CUT VOLUME 37 CY
STG. 1 FILL VOLUME 53 CY

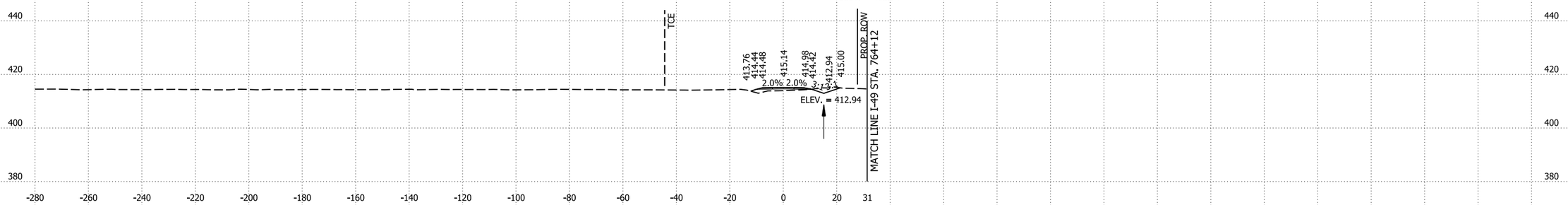


12+00.00

STG. 1 AREA CUT 12 SF
STG. 1 AREA FILL 14 SF

STA. 11+00.00
BEGIN SP. DITCH RT. -0.30%
ELEV. = 412.94

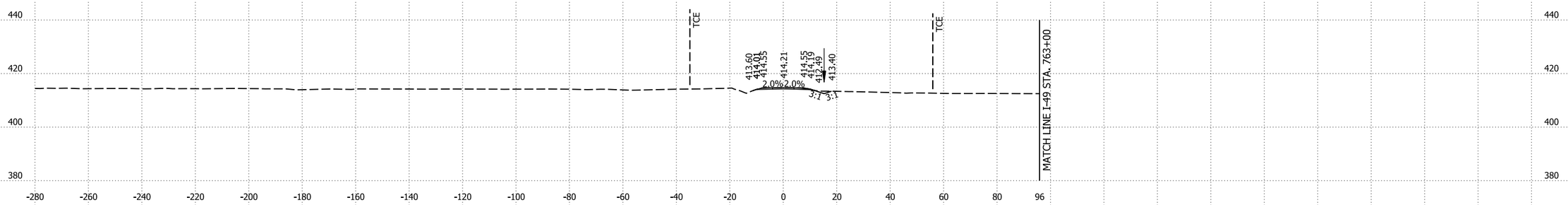
STG. 1 CUT VOLUME 39 CY
STG. 1 FILL VOLUME 22 CY



11+00.00

STG. 1 AREA CUT 13 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY



10+15.40
BEGIN OLD WIRE RD

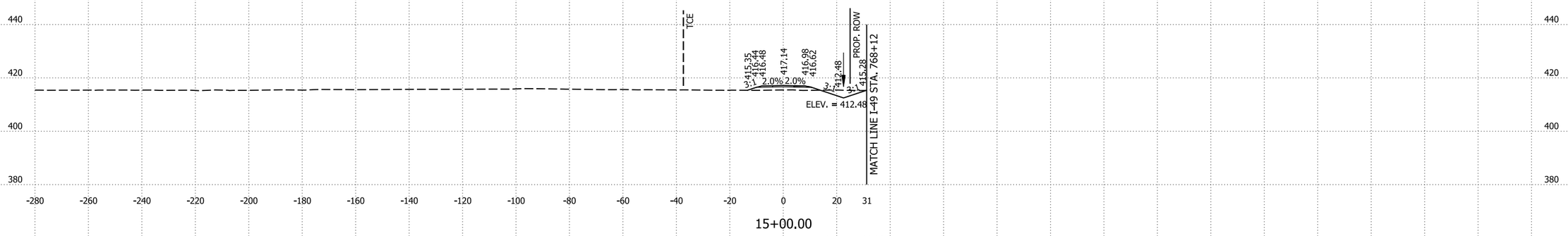
OLD WIRE RD STA. 10+15.40 TO STA. 12+00

4/30/2026 8:16:37 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	729	742
		CROSS SECTIONS				

STG. 1 AREA CUT 25 SF
STG. 1 AREA FILL 27 SF

STG. 1 CUT VOLUME 84 CY
STG. 1 FILL VOLUME 147 CY

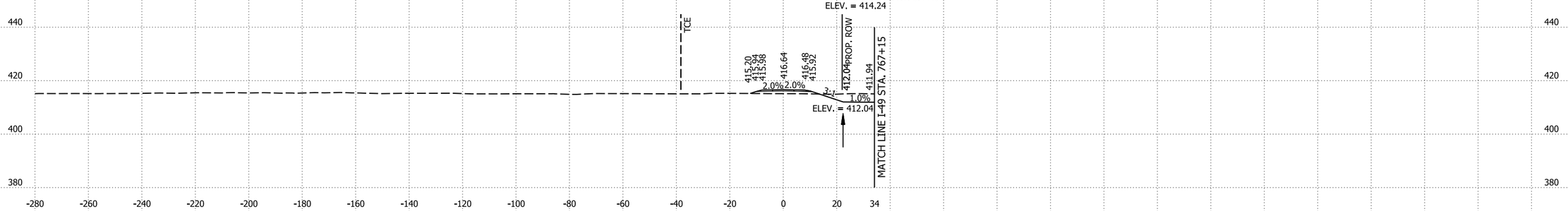


15+00.00

STG. 1 AREA CUT 21 SF
STG. 1 AREA FILL 49 SF

STA. 14+00.00
END SP. DITCH RT. -0.30%
BEGIN SP. DITCH RT. 0.44%
ELEV. = 414.24

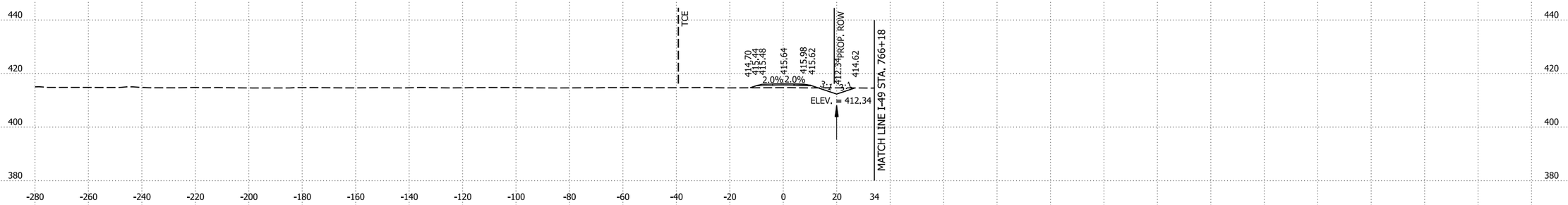
STG. 1 CUT VOLUME 68 CY
STG. 1 FILL VOLUME 127 CY



14+00.00

STG. 1 AREA CUT 16 SF
STG. 1 AREA FILL 19 SF

STG. 1 CUT VOLUME 45 CY
STG. 1 FILL VOLUME 62 CY



13+00.00

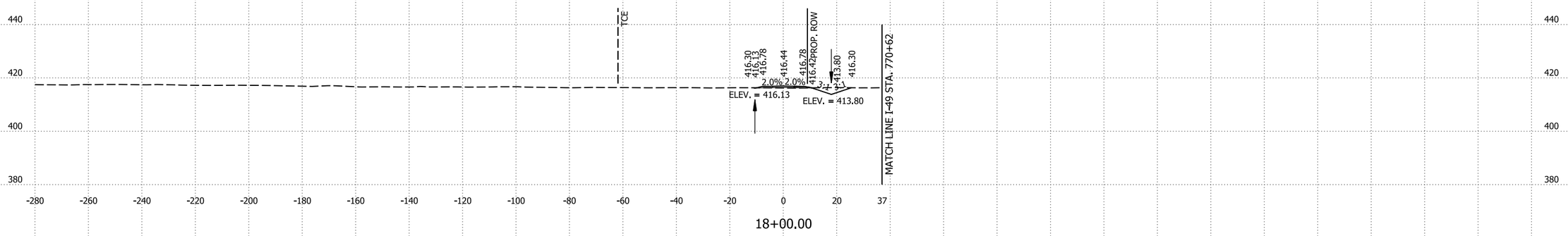
OLD WIRE RD STA. 13+00 TO STA. 15+00

4/30/2026 8:16:38 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	730	742
		CROSS SECTIONS				

STG. 1 AREA CUT 19 SF
STG. 1 AREA FILL 2 SF

STG. 1 CUT VOLUME 84 CY
STG. 1 FILL VOLUME 30 CY

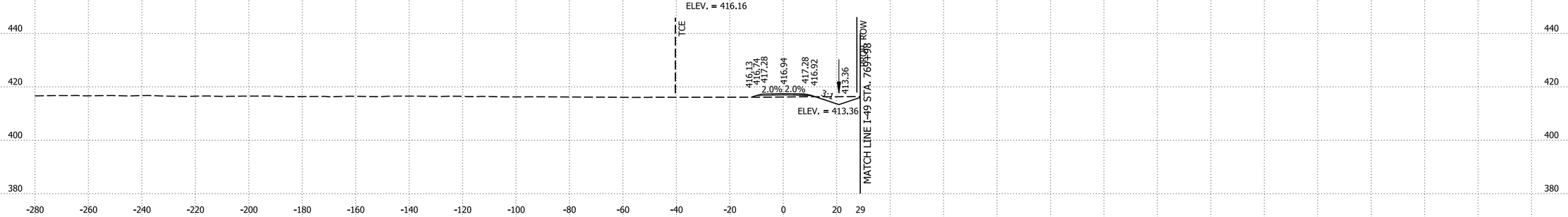


18+00.00

STG. 1 AREA CUT 26 SF
STG. 1 AREA FILL 14 SF

STA. 17+93.00
BEGIN SP. DITCH RT. -0.50%
ELEV. = 416.16

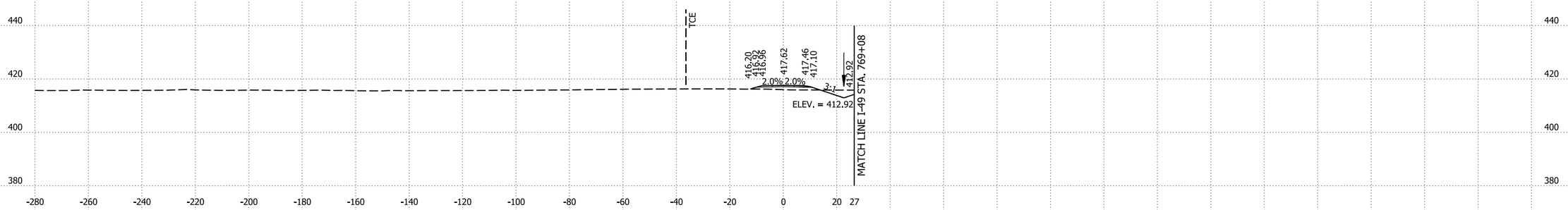
STG. 1 CUT VOLUME 88 CY
STG. 1 FILL VOLUME 68 CY



17+00.00

STG. 1 AREA CUT 22 SF
STG. 1 AREA FILL 23 SF

STG. 1 CUT VOLUME 86 CY
STG. 1 FILL VOLUME 93 CY



16+00.00

OLD WIRE RD STA. 16+00 TO STA. 18+00

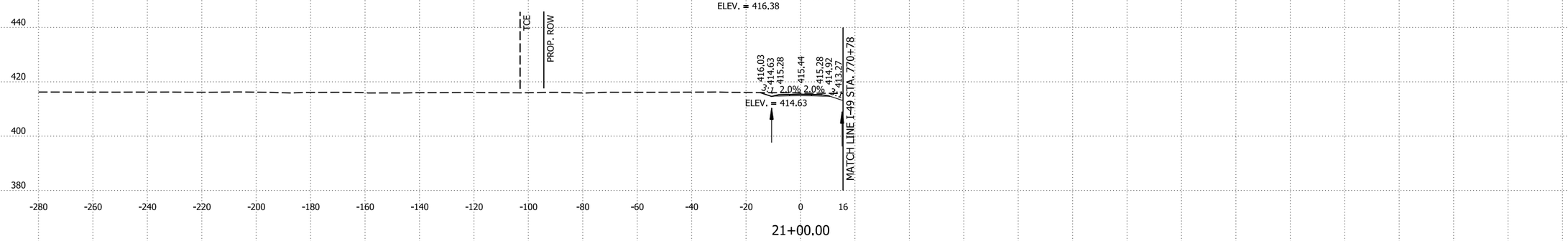
4/30/2026 8:16:38 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	731	742
		CROSS SECTIONS				

STG. 1 AREA CUT 34 SF
STG. 1 AREA FILL 0 SF

STA. 21+50.00
END SP. DITCH LT. -0.50%
BEGIN SP. DITCH RT. -0.06%
ELEV. = 416.38

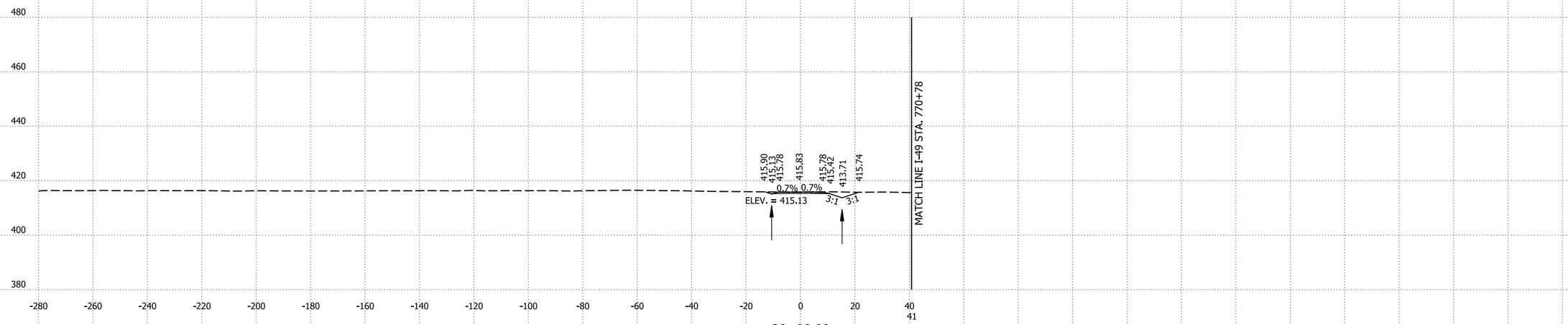
STG. 1 CUT VOLUME 112 CY
STG. 1 FILL VOLUME 0 CY



21+00.00

STG. 1 AREA CUT 26 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 121 CY
STG. 1 FILL VOLUME 0 CY

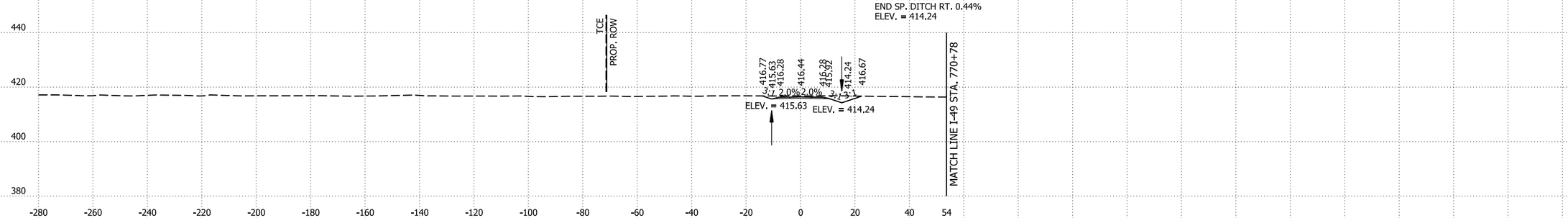


20+00.00

STG. 1 AREA CUT 40 SF
STG. 1 AREA FILL 0 SF

STA. 19+00.00
END SP. DITCH RT. 0.44%
ELEV. = 414.24

STG. 1 CUT VOLUME 104 CY
STG. 1 FILL VOLUME 4 CY



19+00.00

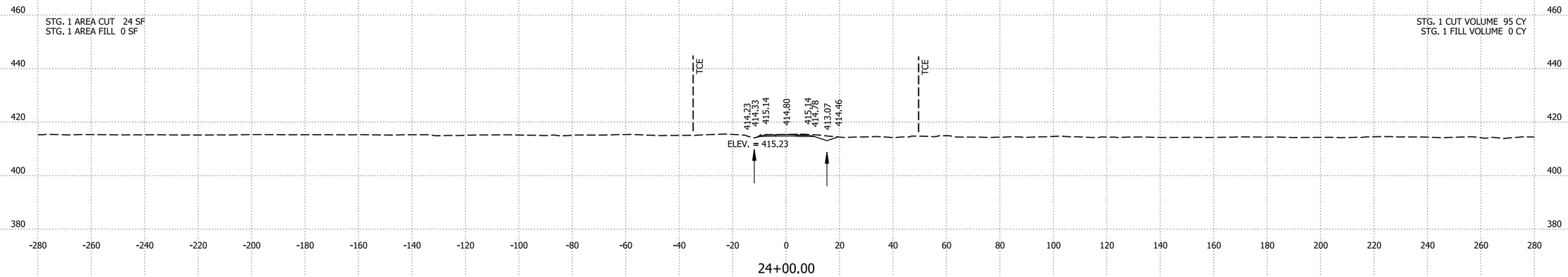
OLD WIRE RD STA. 19+00 TO STA. 21+00

4/30/2026 8:16:38 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	732	742
		CROSS SECTIONS				

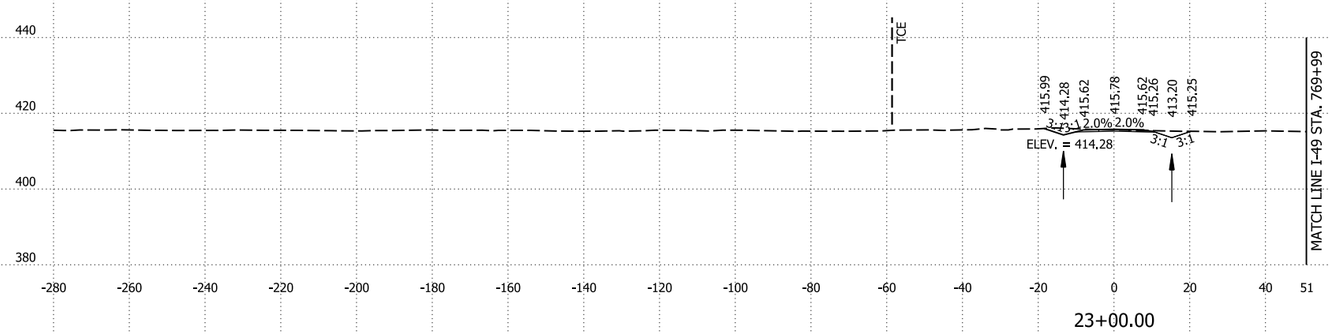
STG. 1 AREA CUT 24 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 95 CY
STG. 1 FILL VOLUME 0 CY



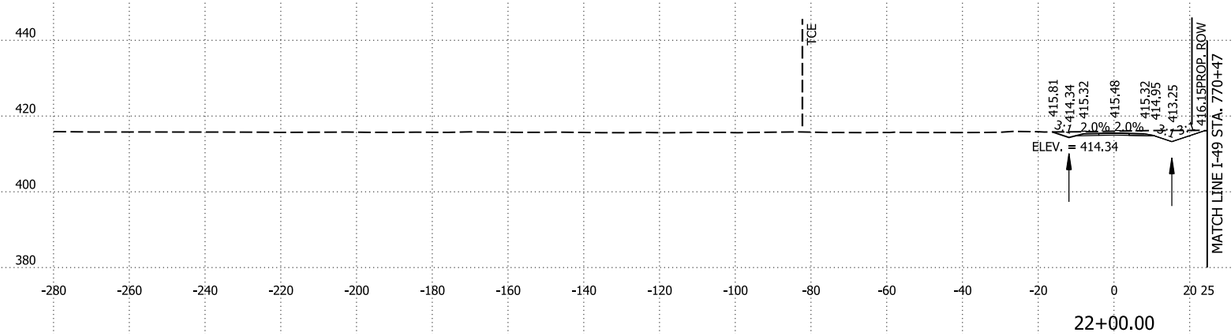
STG. 1 AREA CUT 28 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 148 CY
STG. 1 FILL VOLUME 0 CY



STG. 1 AREA CUT 52 SF
STG. 1 AREA FILL 0 SF

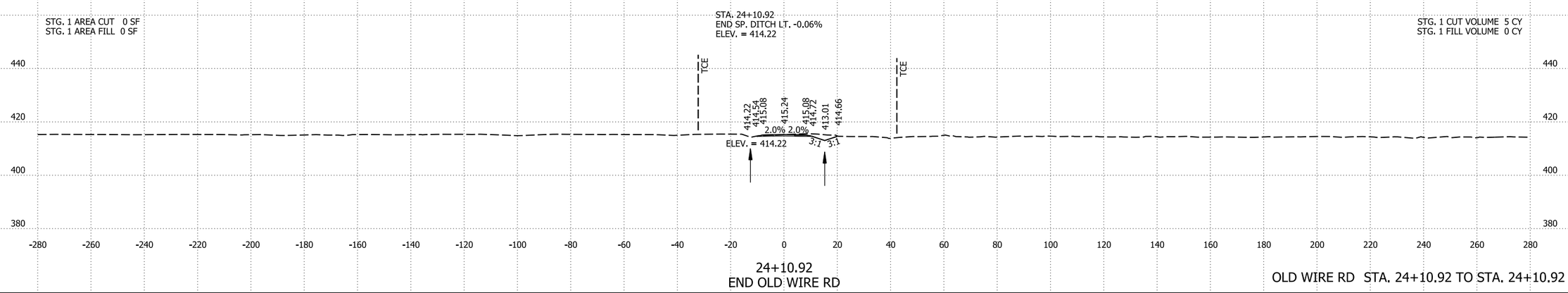
STG. 1 CUT VOLUME 161 CY
STG. 1 FILL VOLUME 0 CY



OLD WIRE RD STA. 22+00 TO STA. 24+00

4/30/2026 8:16:39 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	733	742
		CROSS SECTIONS				



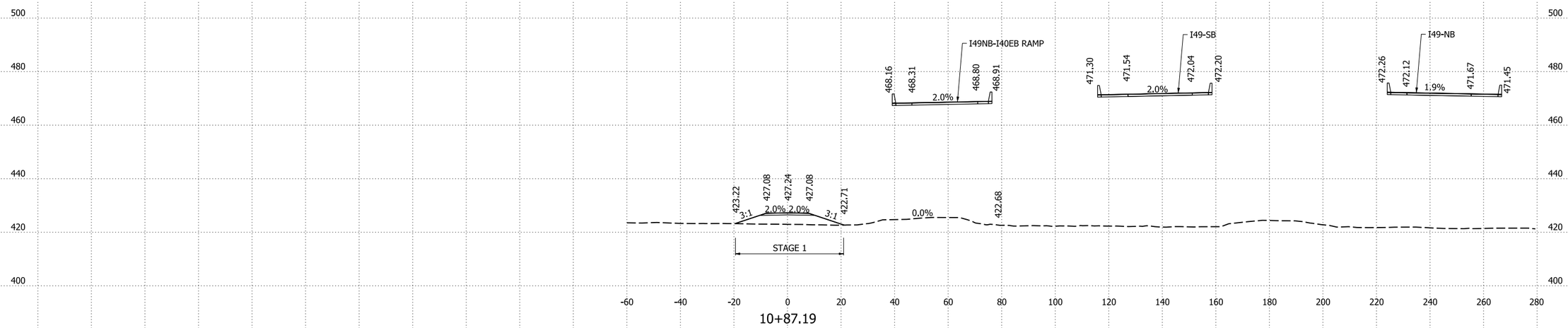
OLD WIRE RD STA. 24+10.92 TO STA. 24+10.92

4/30/2026 8:16:39 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	734	742
		CROSS SECTIONS				

STG. 1 AREA CUT 93 SF
STG. 1 AREA FILL 106 SF

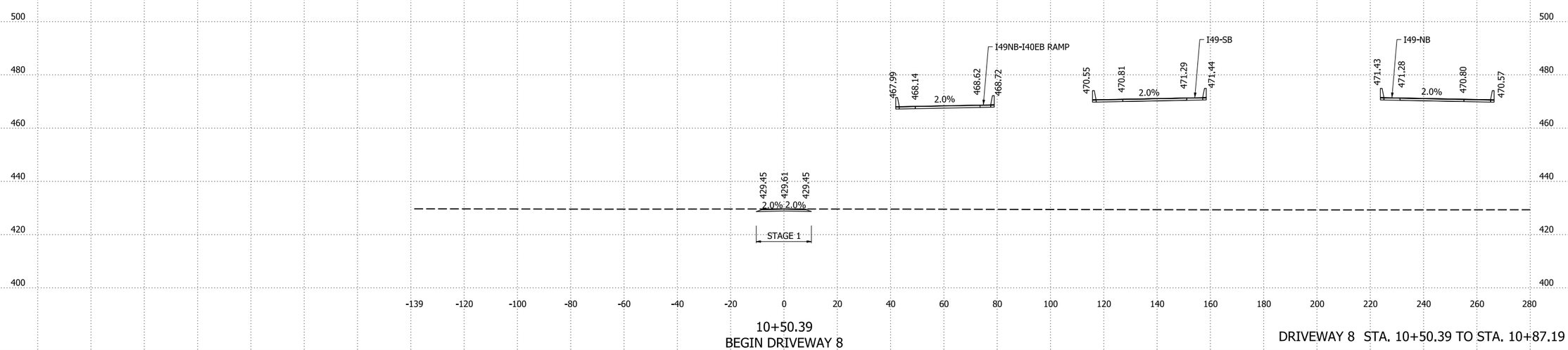
STG. 1 CUT VOLUME 74 CY
STG. 1 FILL VOLUME 72 CY



10+87.19

STG. 1 AREA CUT 15 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY



10+50.39
BEGIN DRIVEWAY 8

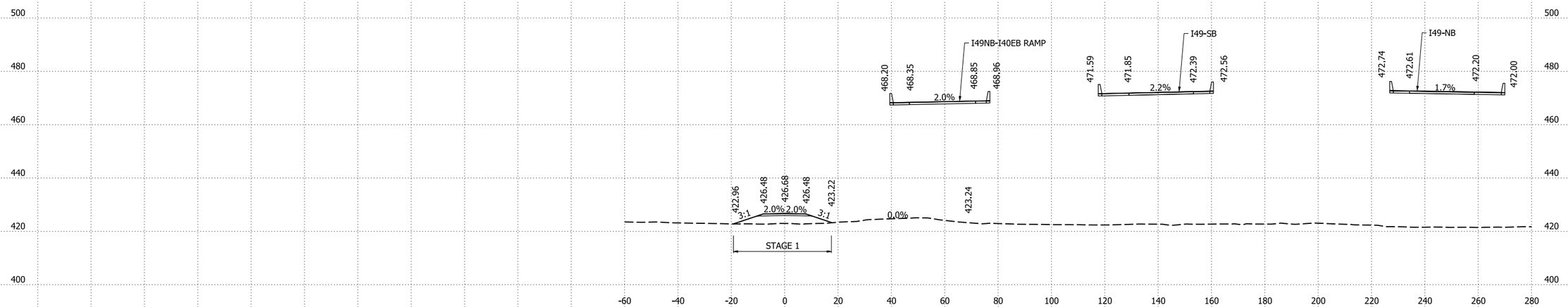
DRIVEWAY 8 STA. 10+50.39 TO STA. 10+87.19

4/30/2026 8:16:39 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	735	742
		CROSS SECTIONS				

STG. 1 AREA CUT 52 SF
STG. 1 AREA FILL 86 SF

STG. 1 CUT VOLUME 10 CY
STG. 1 FILL VOLUME 13 CY

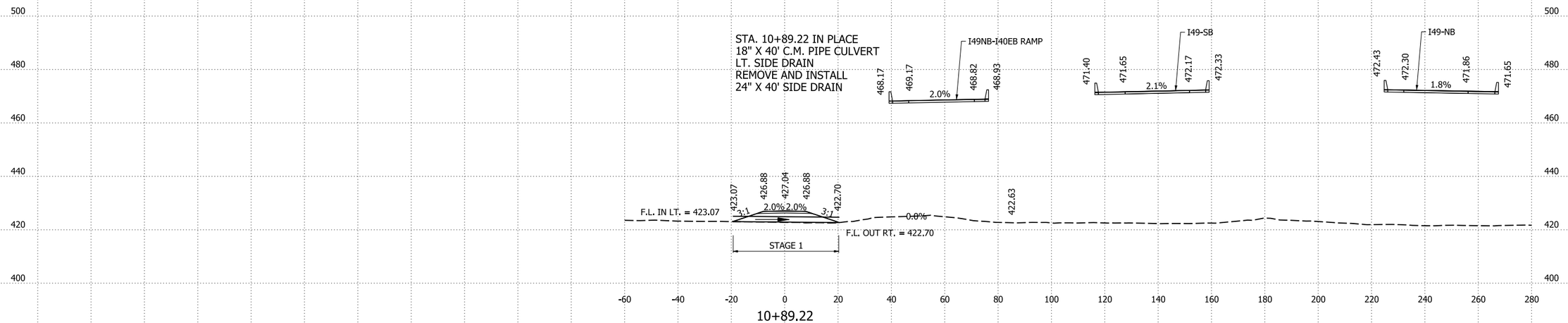


10+92.78

STG. 1 AREA CUT 94 SF
STG. 1 AREA FILL 104 SF

STG. 1 CUT VOLUME 7 CY
STG. 1 FILL VOLUME 8 CY

STA. 10+89.22 IN PLACE
18" X 40' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND INSTALL
24" X 40' SIDE DRAIN



10+89.22

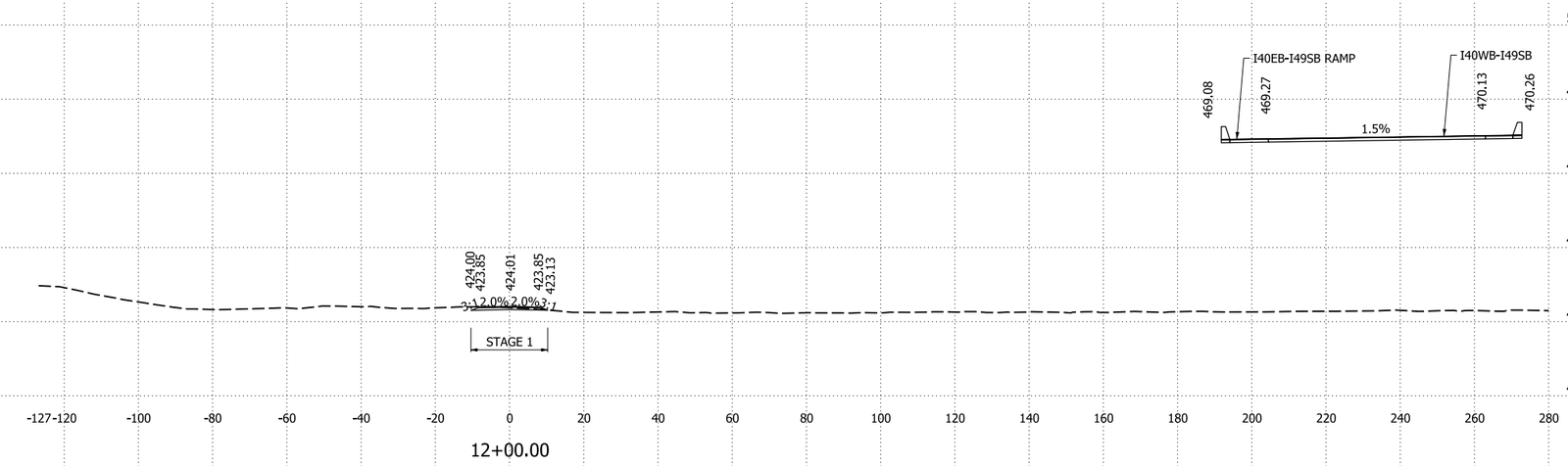
DRIVEWAY 8 STA. 10+89.22 TO STA. 10+92.78

4/30/2026 8:16:39 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	736	742
		CROSS SECTIONS				

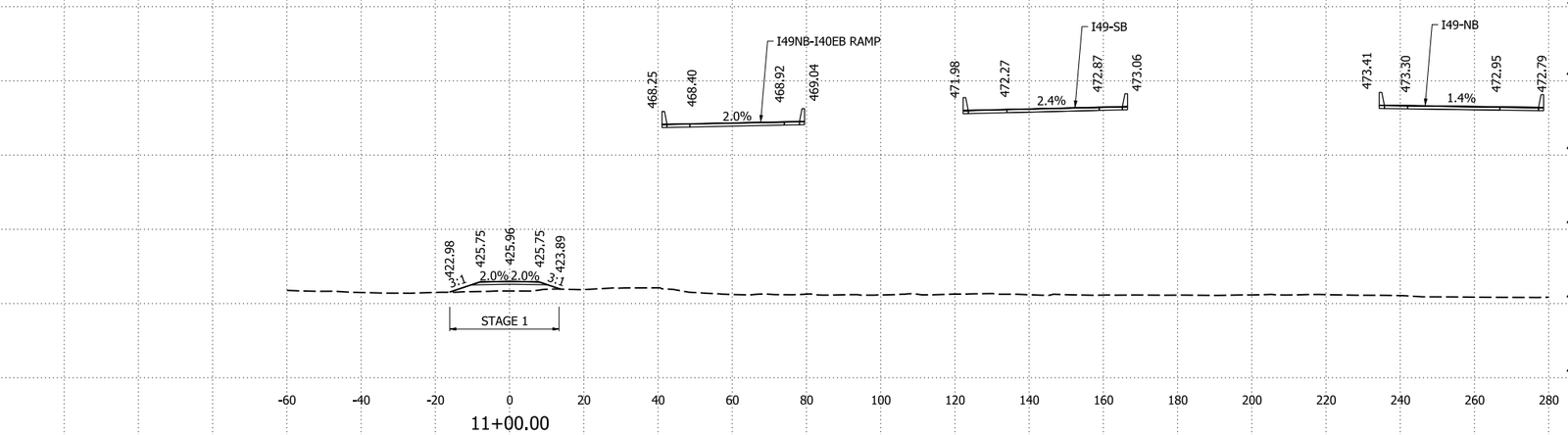
STG. 1 AREA CUT 10 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 19 CY
STG. 1 FILL VOLUME 80 CY



STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 43 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 17 CY



DRIVEWAY 8 STA. 11+00 TO STA. 12+00

4/30/2026 8:16:40 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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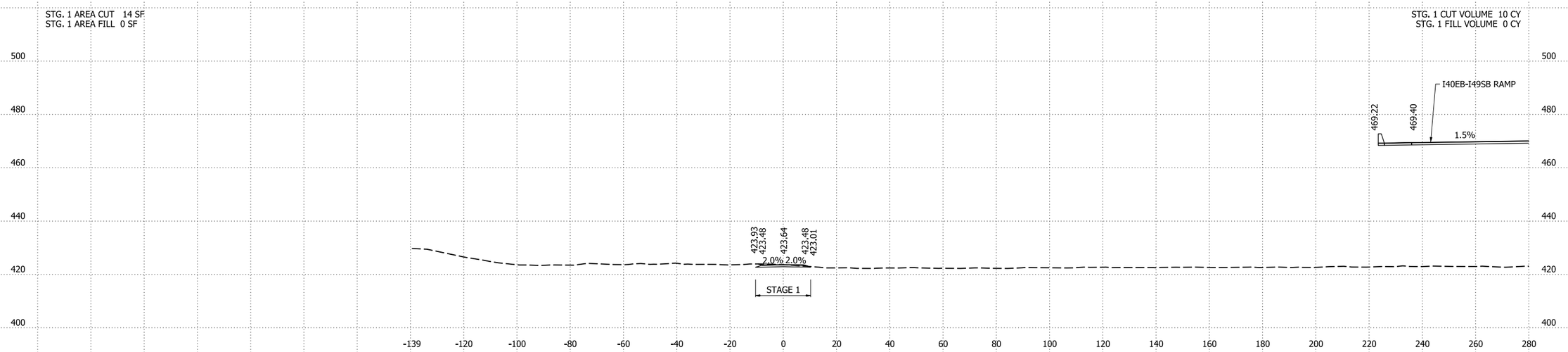
		CROSS SECTIONS				



12+22.63
END DRIVEWAY 8

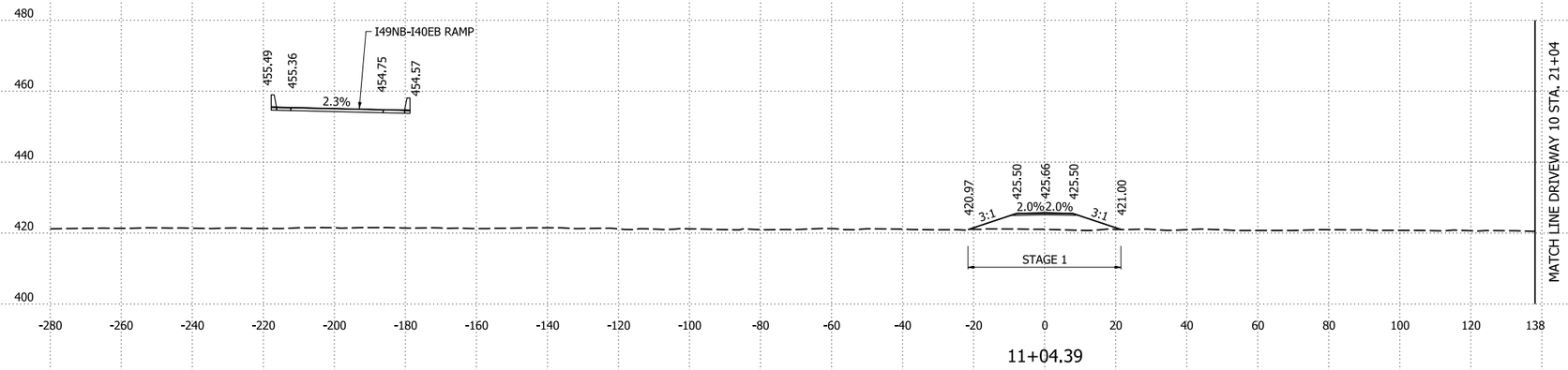
DRIVEWAY 8 STA. 12+22.63 TO STA. 12+22.63

4/30/2026 8:16:40 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	738	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 125 SF

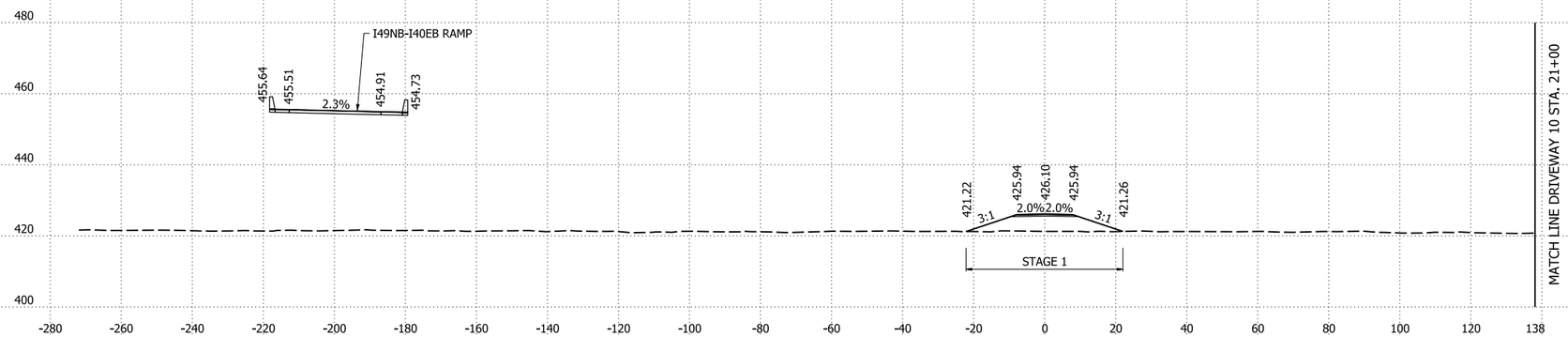
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 21 CY



11+04.39

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 133 SF

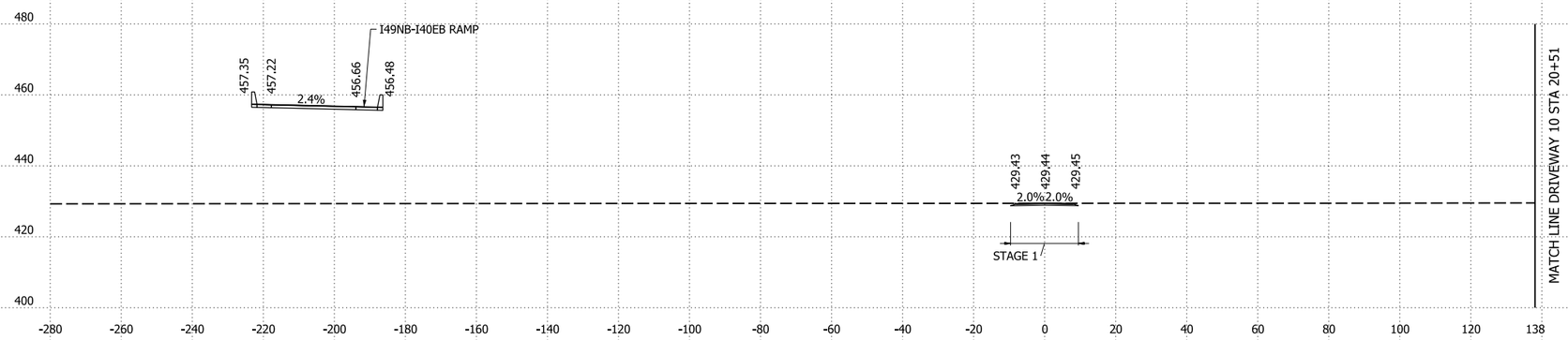
STG. 1 CUT VOLUME 9 CY
STG. 1 FILL VOLUME 120 CY



11+00.00

STG. 1 AREA CUT 10 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY



10+51.19
BEGIN DRIVEWAY 9

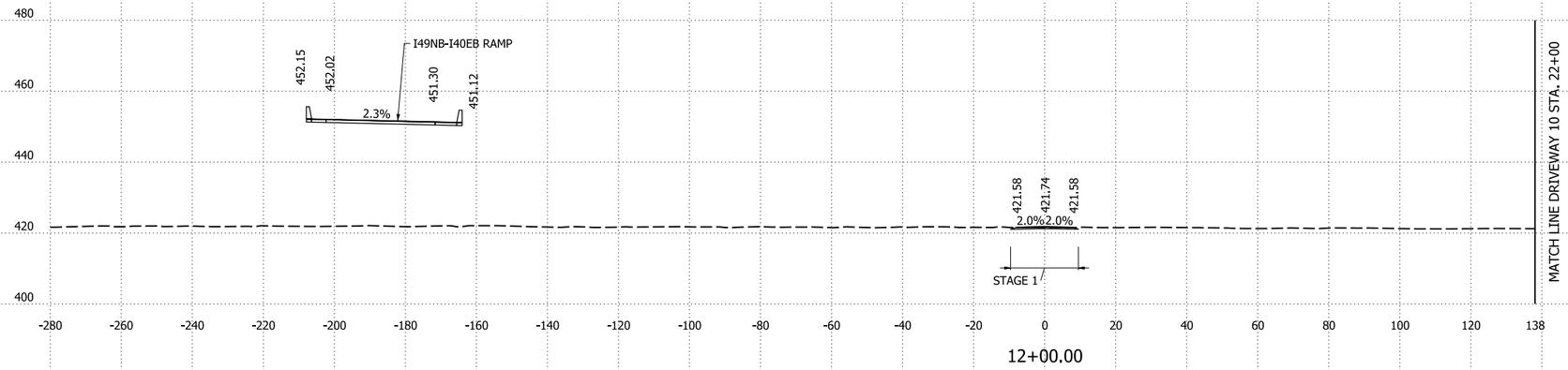
DRIVEWAY 9 STA. 10+51.19 TO STA. 11+04.39

4/30/2026 8:16:40 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	739	742
		CROSS SECTIONS				

STG. 1 AREA CUT 7 SF
STG. 1 AREA FILL 0 SF

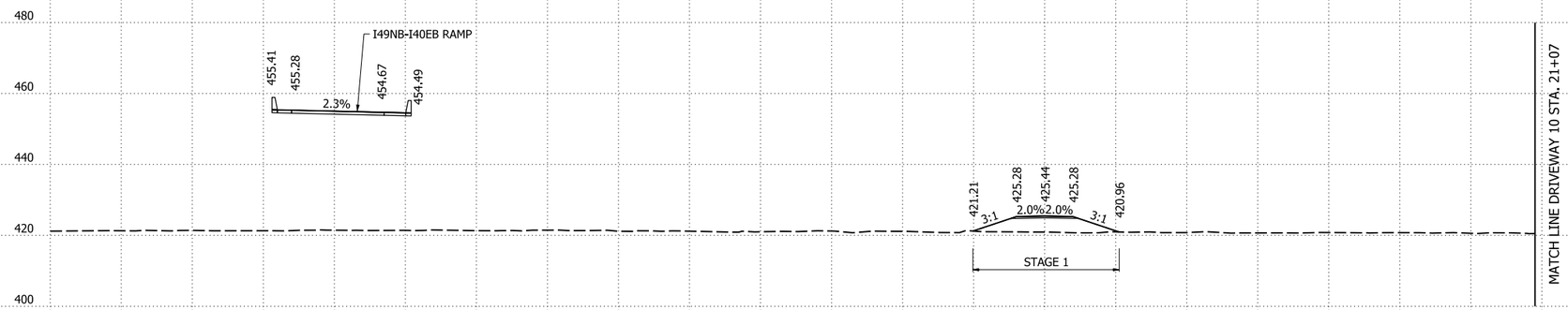
STG. 1 CUT VOLUME 12 CY
STG. 1 FILL VOLUME 207 CY



12+00.00

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 120 SF

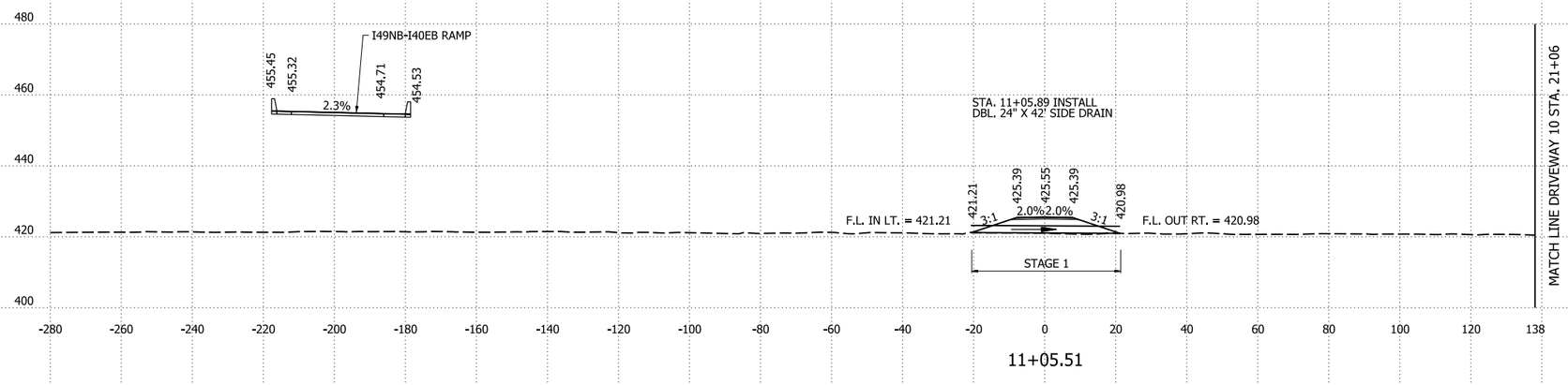
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 5 CY



11+06.61

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 122 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 5 CY



11+05.51

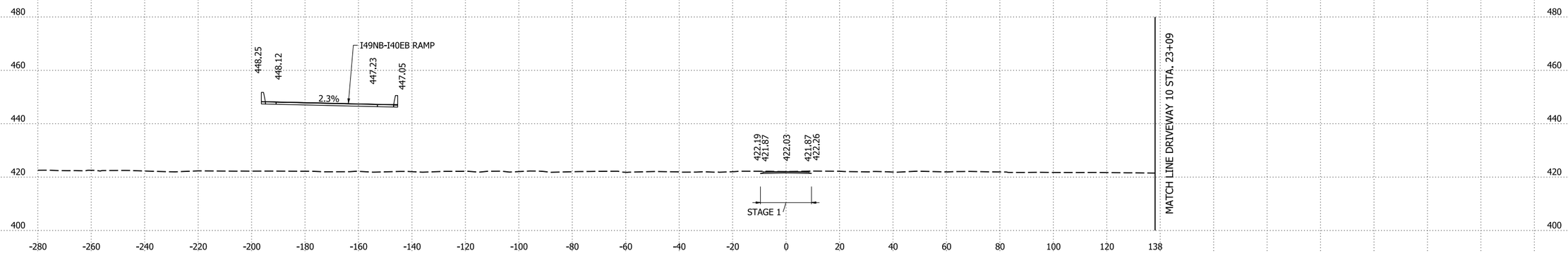
DRIVEWAY 9 STA. 11+05.51 TO STA. 12+00

4/30/2026 8:16:41 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	740	742
		CROSS SECTIONS				

STG. 1 AREA CUT 12 SF
STG. 1 AREA FILL 0 SF

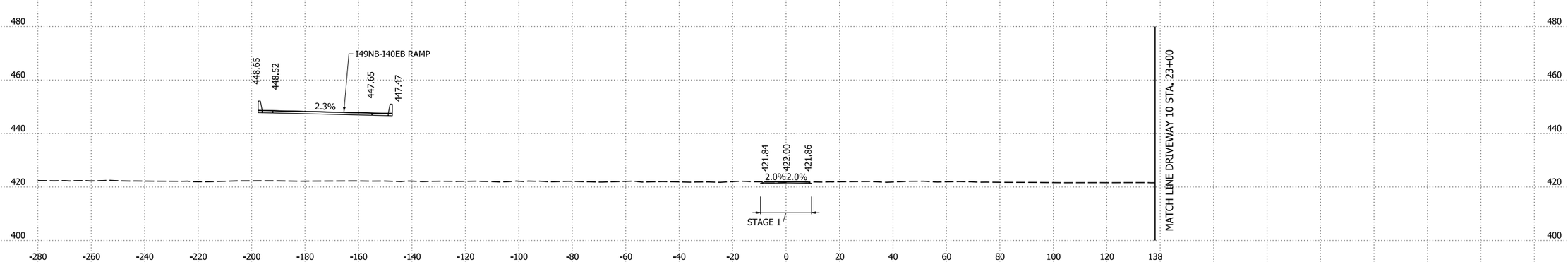
STG. 1 CUT VOLUME 4 CY
STG. 1 FILL VOLUME 0 CY



13+11.49
END DRIVEWAY 9

STG. 1 AREA CUT 8 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 28 CY
STG. 1 FILL VOLUME 0 CY



13+00.00

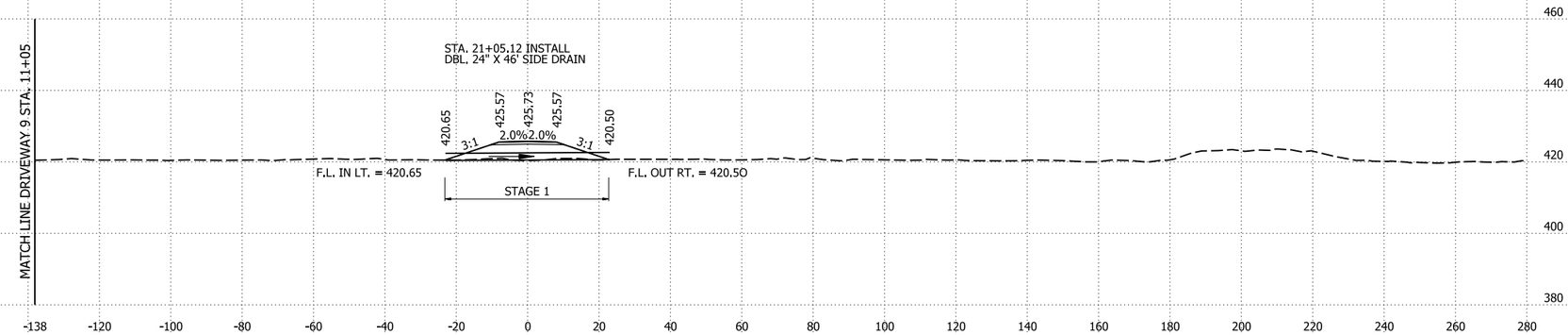
DRIVEWAY 9 STA. 13+00 TO STA. 13+11.49

4/30/2026 8:16:41 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	741	742
		CROSS SECTIONS				

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 138 SF

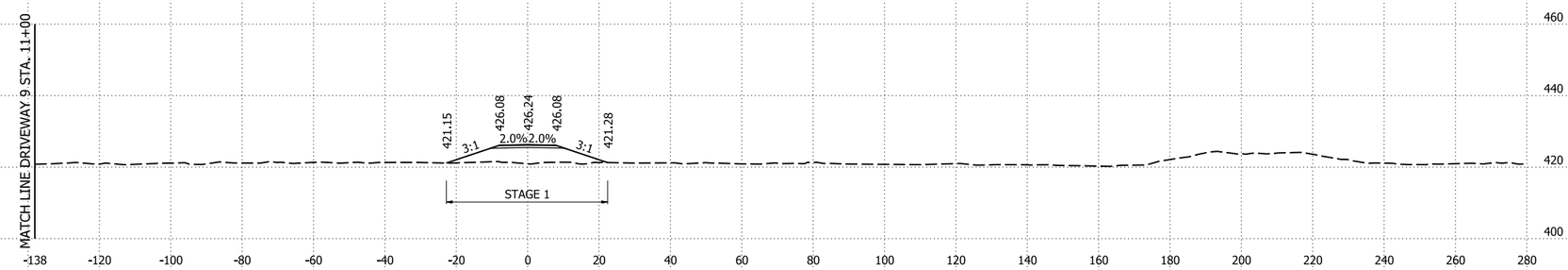
STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 26 CY



21+05.12

STG. 1 AREA CUT 0 SF
STG. 1 AREA FILL 135 SF

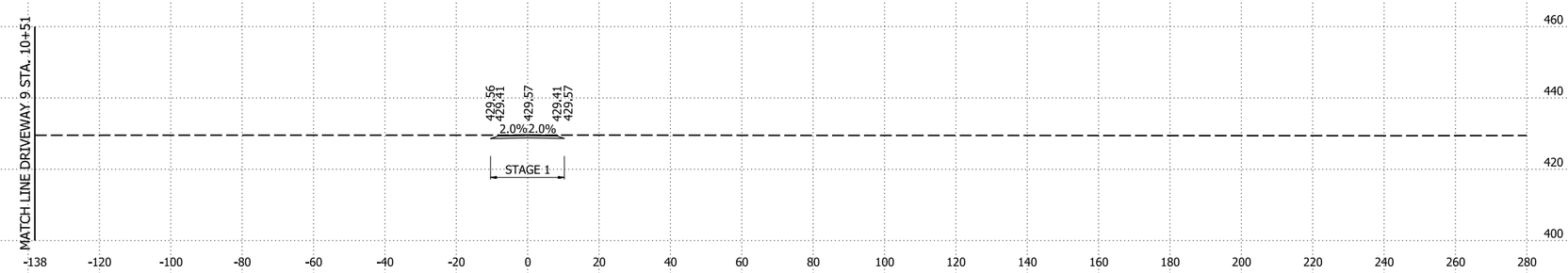
STG. 1 CUT VOLUME 13 CY
STG. 1 FILL VOLUME 121 CY



21+00.00

STG. 1 AREA CUT 15 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 0 CY
STG. 1 FILL VOLUME 0 CY



20+51.38
BEGIN DRIVEWAY 10

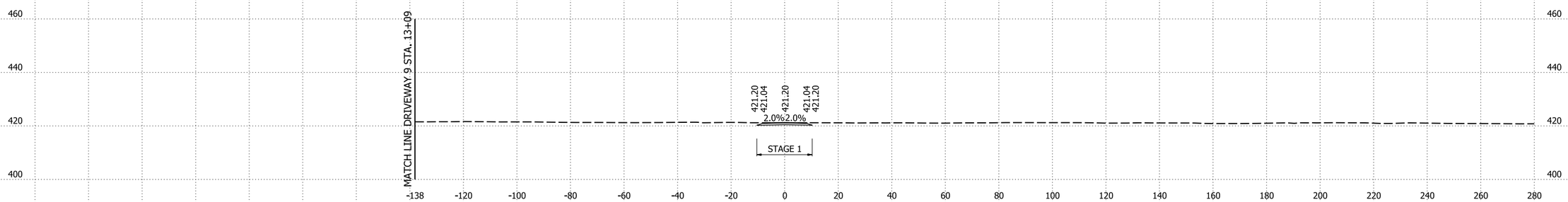
DRIVEWAY 10 STA. 20+51.38 TO STA. 21+05.12

4/30/2026 8:16:41 AM
R040904_22_CX.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040904	742	742
		CROSS SECTIONS				

STG. 1 AREA CUT 15 SF
STG. 1 AREA FILL 0 SF

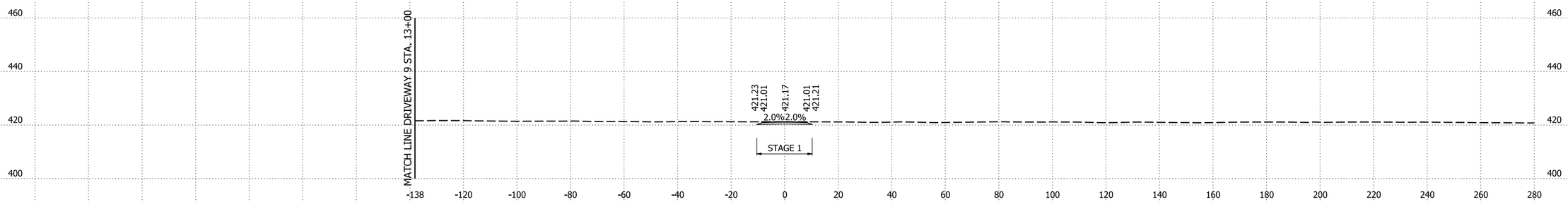
STG. 1 CUT VOLUME 5 CY
STG. 1 FILL VOLUME 0 CY



23+08.86
END DRIVEWAY 10

STG. 1 AREA CUT 16 SF
STG. 1 AREA FILL 0 SF

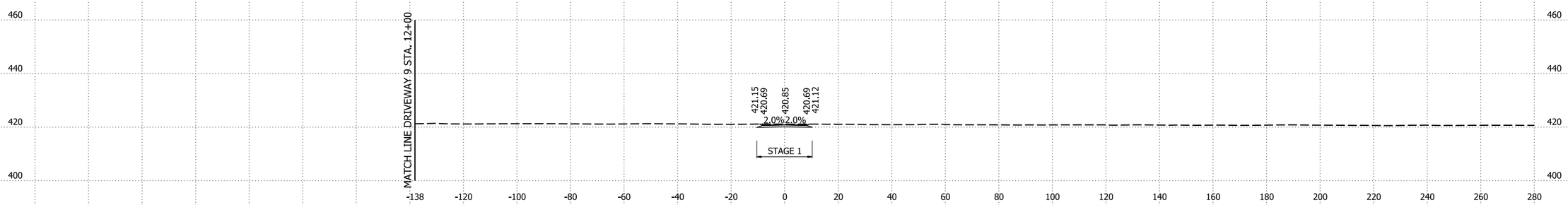
STG. 1 CUT VOLUME 66 CY
STG. 1 FILL VOLUME 0 CY



23+00.00

STG. 1 AREA CUT 20 SF
STG. 1 AREA FILL 0 SF

STG. 1 CUT VOLUME 35 CY
STG. 1 FILL VOLUME 242 CY



22+00.00

DRIVEWAY 10 STA. 22+00 TO STA. 23+06.86

4/30/2026 8:16:41 AM
R040904_22_CX.dgn

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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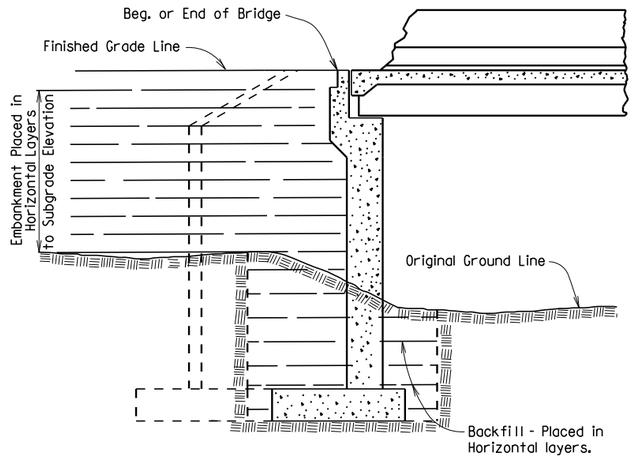
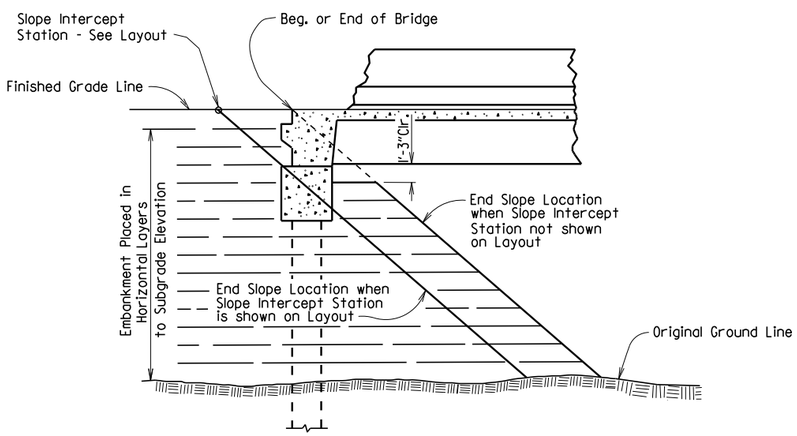
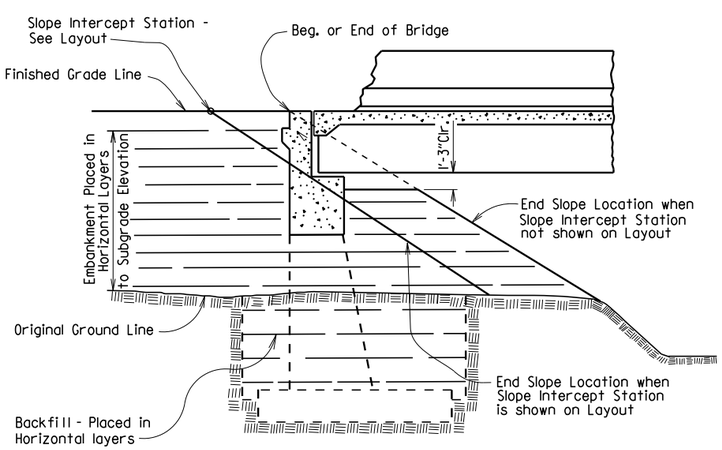
				JOB NO.				
				1	EMBANKMENT & BACKFILL		55000	



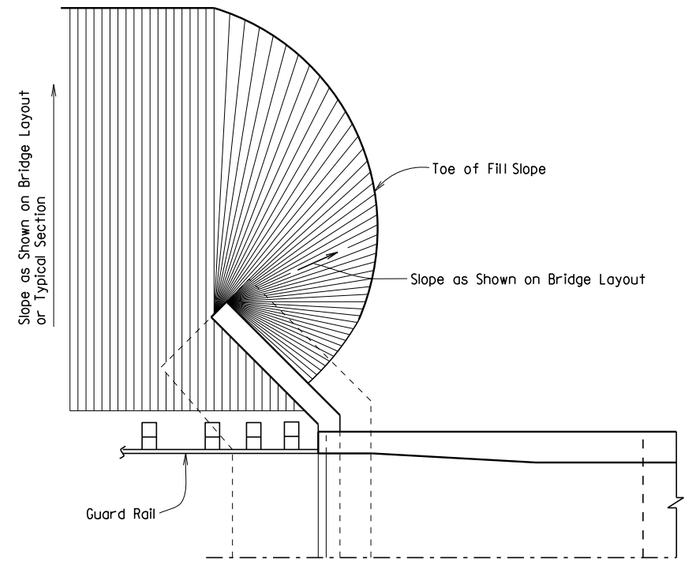
EMBANKMENT CONSTRUCTION AND FOOTING BACKFILL AT VERTICAL WALL ABUTMENTS



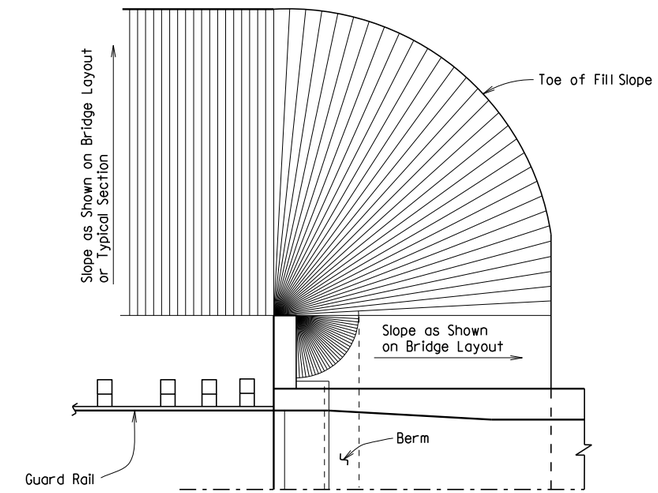
EMBANKMENT CONSTRUCTION AT SPILL-THROUGH PILE END BENTS



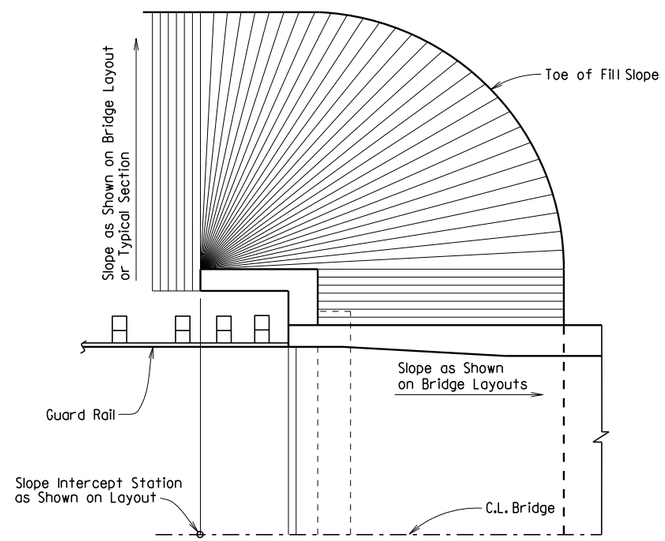
EMBANKMENT CONSTRUCTION AND FOOTING BACKFILL AT SPILL-THROUGH END BENTS



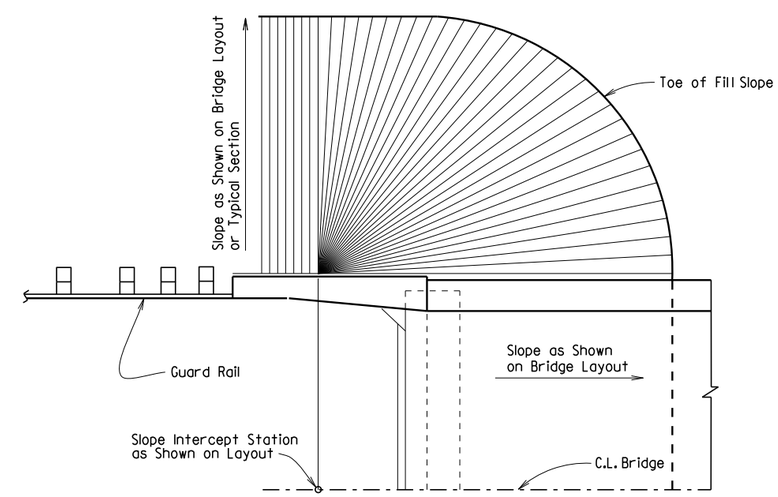
VERTICAL WALL ABUTMENTS



SPILL-THROUGH END BENTS WITH STUB WING



SPILL-THROUGH END BENTS WITH TURNBACK WING



SPILL-THROUGH END BENTS WITH TRANSITION WING

METHOD OF DETERMINING FILL SLOPE LOCATION AT BRIDGE ENDS

GENERAL NOTES

The Bridge End Embankment shall be defined as a section of embankment, not less than 20 feet long adjacent to the bridge end, together with the side slopes and slopes under the bridge end including around the end of wingwalls. Embankment adjacent to structures shall be constructed in 6 inch horizontal layers (loose measure) and compacted by the use of mechanical equipment to the satisfaction of the Engineer. Refer to Subsections 210.09, 210.10 and 801.08 for construction requirements.

STANDARD DETAILS FOR EMBANKMENT CONSTRUCTION AND BACKFILL AT BRIDGE ENDS

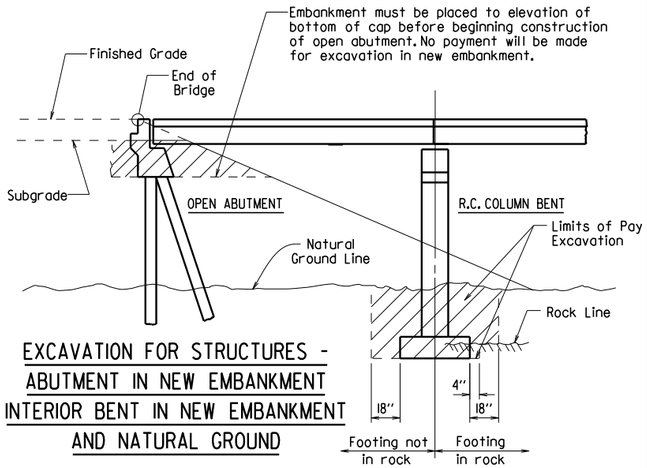
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

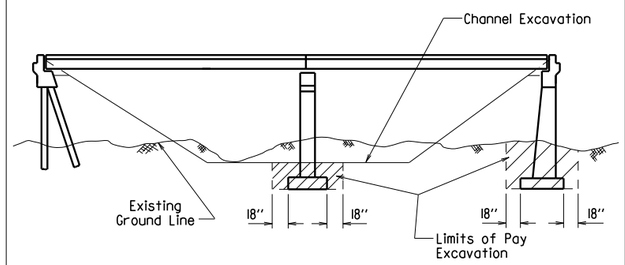
DRAWN BY:	KDH	DATE:	2-27-2014	FILENAME:	b55000.dgn
CHECKED BY:	BEF	DATE:	2-27-2014	SCALE:	NO SCALE
DESIGNED BY:	STD.	DATE:	-		

DRAWING NO. 55000

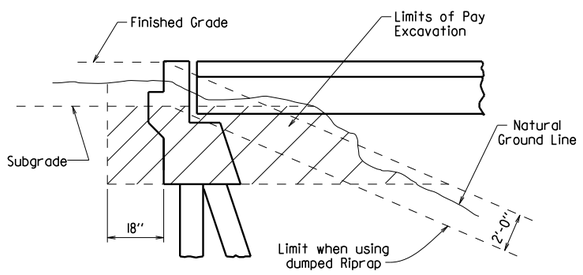
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
				1	RIPRAP & EXCAV. 55001			



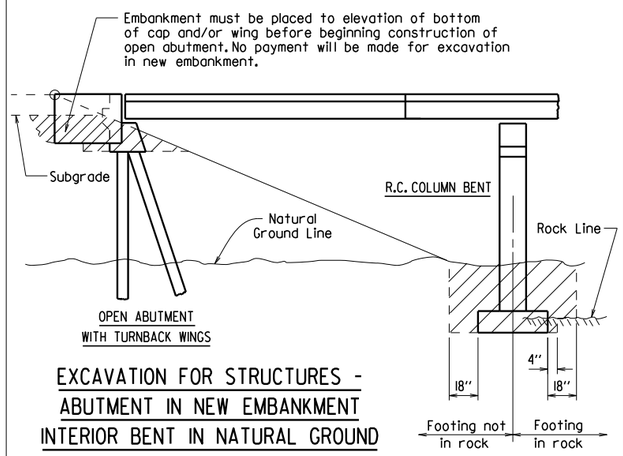
EXCAVATION FOR STRUCTURES - ABUTMENT IN NEW EMBANKMENT INTERIOR BENT IN NEW EMBANKMENT AND NATURAL GROUND



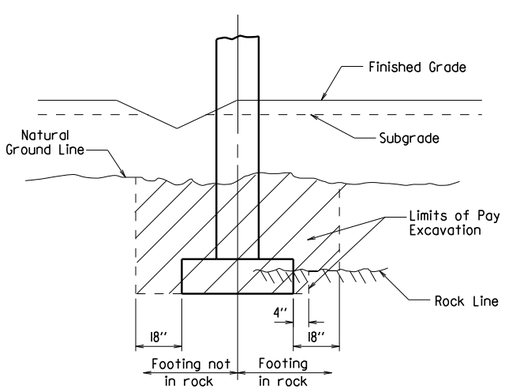
EXCAVATION FOR STRUCTURES - BRIDGE LOCATION WITH DESIGNATED CHANNEL CHANGE



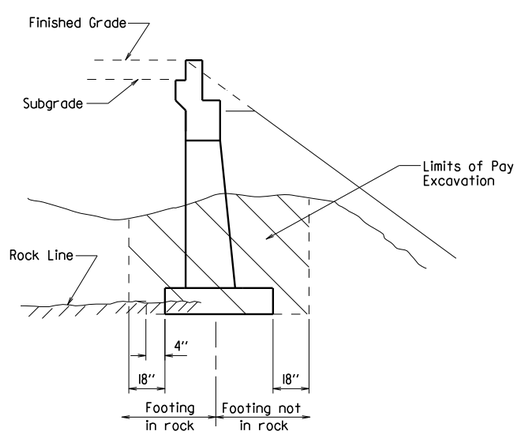
EXCAVATION FOR STRUCTURES - ABUTMENT IN NATURAL GROUND



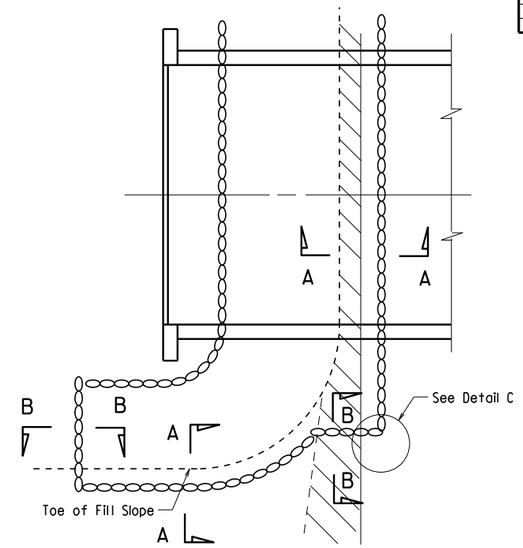
EXCAVATION FOR STRUCTURES - ABUTMENT IN NEW EMBANKMENT INTERIOR BENT IN NATURAL GROUND



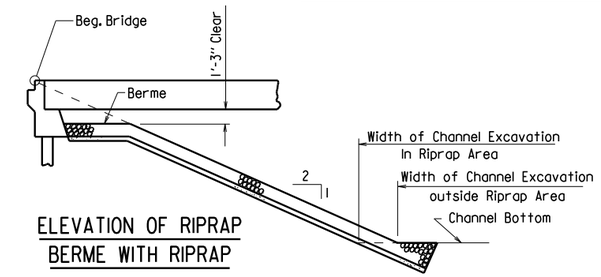
EXCAVATION FOR STRUCTURES - BENT IN ROADWAY FILL SECTION AND NATURAL GROUND



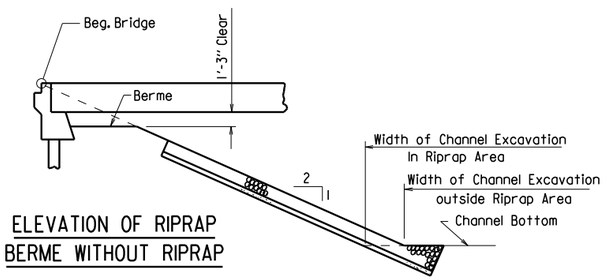
EXCAVATION FOR STRUCTURES - ABUTMENT IN NATURAL GROUND AND NEW EMBANKMENT



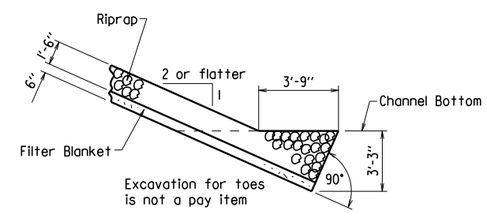
PLAN OF DUMPED RIPRAP



ELEVATION OF RIPRAP BERME WITH RIPRAP

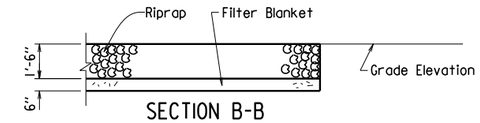


ELEVATION OF RIPRAP BERME WITHOUT RIPRAP

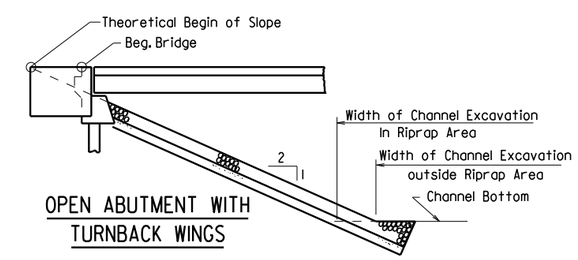


SECTION A-A

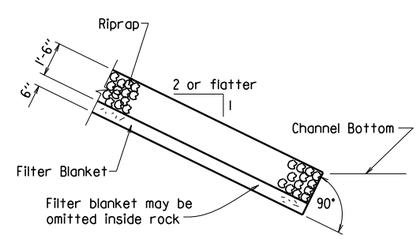
(Toe Excavation in Soil)



SECTION B-B



OPEN ABUTMENT WITH TURNBACK WINGS



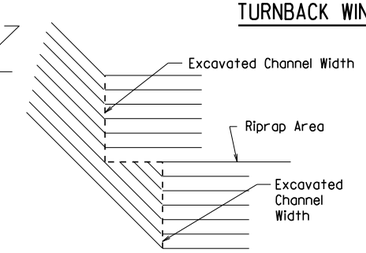
SECTION A-A

(Toe Excavation in Rock)

Note : Use this type of toe when rock is encountered which is in a stable condition.

Note : In lieu of an aggregate filter blanket, a synthetic fiber geotextile fabric complying with the requirements of Subsection 816.02(e) may be used.

Note : Details for computing excavation for structures are included for information as to how plan quantities were calculated and for use when adjusting quantities when changing footing elevation.



DETAIL C

STANDARD DETAILS FOR DUMPED RIPRAP AND FILTER BLANKET AND COMPUTING EXCAVATION FOR STRUCTURES

ARKANSAS STATE HIGHWAY COMMISSION

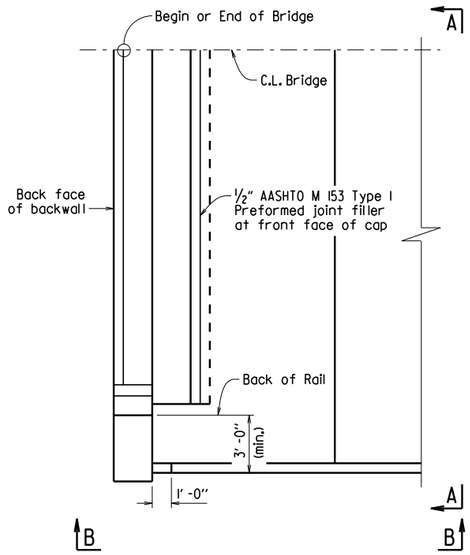
LITTLE ROCK, ARK.

DRAWN BY:	KDH	DATE:	2-27-2014	FILENAME:	b55001.dgn
CHECKED BY:	BEF	DATE:	2-27-2014	SCALE:	NO SCALE
DESIGNED BY:	STD.	DATE:			

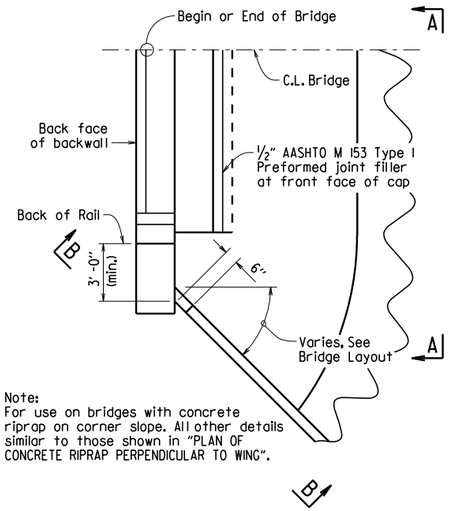
DRAWING NO. 55001

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
				1	CONCRETE RIPRAP 55002			

Note:
Sloped surfaces of concrete riprap to be marked off into blocks (construction joints optional) with an approved grooving tool, spacing the grooved lines about 5' apart.



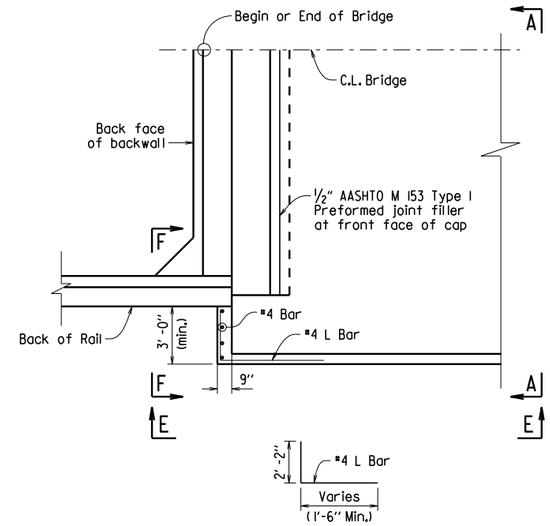
PLAN OF CONCRETE RIPRAP PERPENDICULAR TO WING
1/4" = 1'-0"



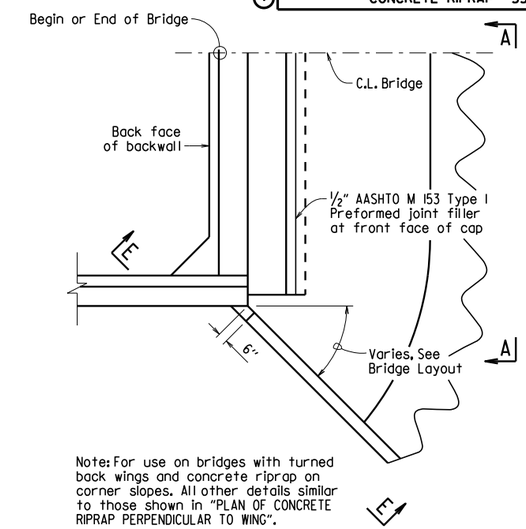
Note:
For use on bridges with concrete riprap on corner slope. All other details similar to those shown in "PLAN OF CONCRETE RIPRAP PERPENDICULAR TO WING".

PLAN OF CONCRETE RIPRAP AT ANGLE TO WING
1/4" = 1'-0"

Note:
For use on bridges with turned back wings. All other details similar to those shown in "PLAN OF CONCRETE RIPRAP PERPENDICULAR TO WING".



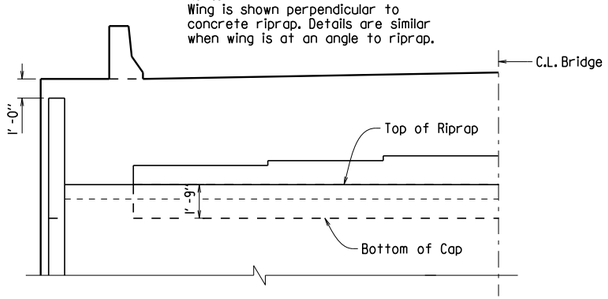
PLAN OF CONCRETE RIPRAP PERPENDICULAR TO TURNED BACK WING
1/4" = 1'-0"



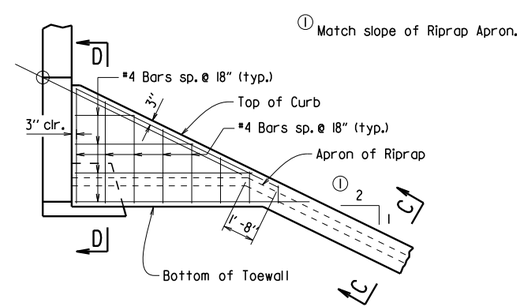
Note: For use on bridges with turned back wings and concrete riprap on corner slopes. All other details similar to those shown in "PLAN OF CONCRETE RIPRAP PERPENDICULAR TO WING".

PLAN OF CONCRETE RIPRAP AT ANGLE FROM TURNED BACK WING
1/4" = 1'-0"

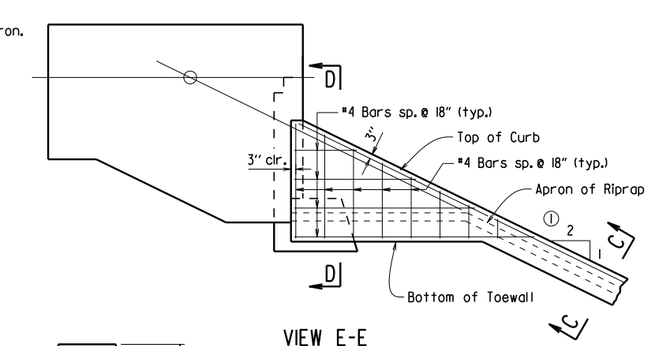
Note:
Wing is shown perpendicular to concrete riprap. Details are similar when wing is at an angle to riprap.



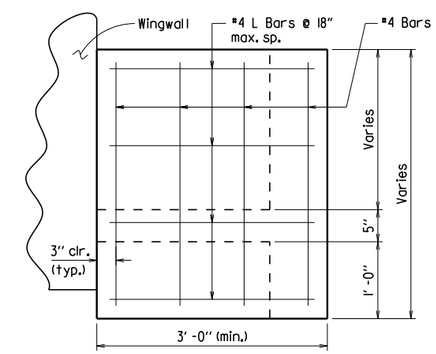
VIEW A-A
1/4" = 1'-0"



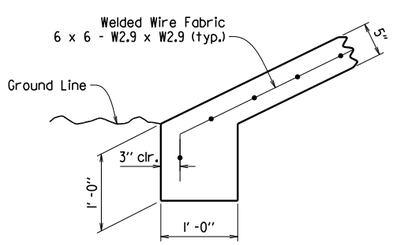
VIEW B-B
1/4" = 1'-0"



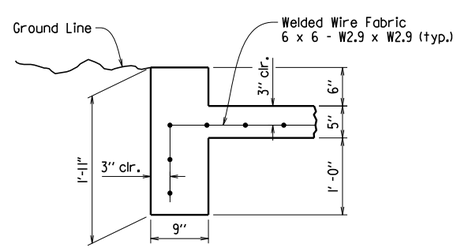
VIEW E-E
1/4" = 1'-0"



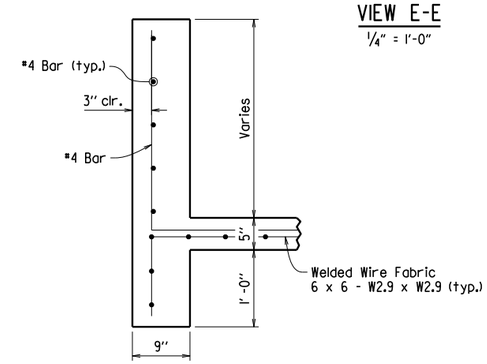
VIEW F-F
1" = 1'-0"



TOE OF CONCRETE RIPRAP
1" = 1'-0"



SECTION C-C
1" = 1'-0"



SECTION D-D
1" = 1'-0"

GENERAL NOTES

All concrete shall be Class A with a minimum compressive strength, f'c = 2,100 psi.

Welded wire fabric shall conform to AASHTO M55 or M221.

STANDARD DETAILS FOR CONCRETE RIPRAP

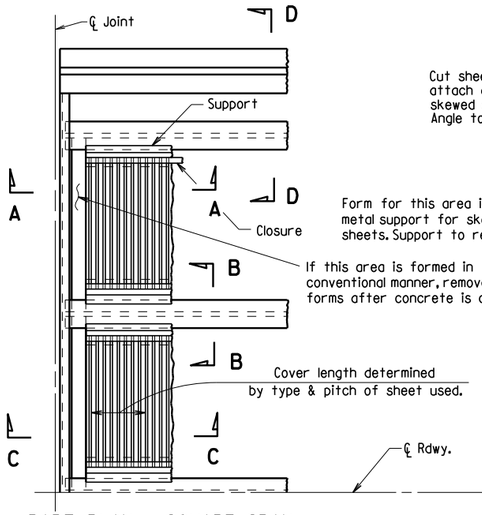
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY:	ACP	DATE:	2/27/2014	FILENAME:	b55002.dgn
CHECKED BY:	BEF	DATE:	2/27/2014	SCALE:	AS SHOWN
DESIGNED BY:	Std.	DATE:	---		

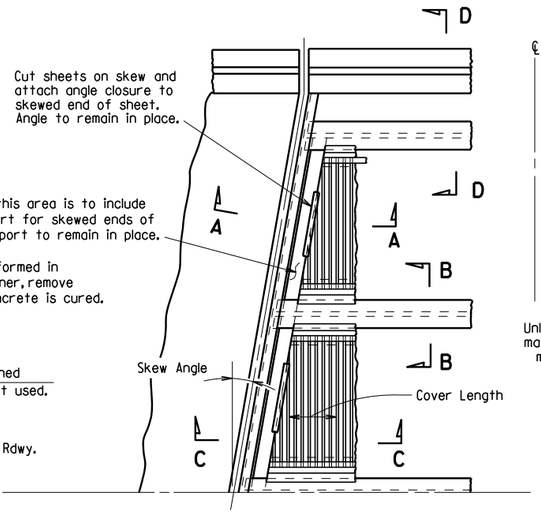
DRAWING NO. 55002

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3/24/16				6	ARK.			
				JOB NO.				
				① BRIDGE DECK FORMS			55005	



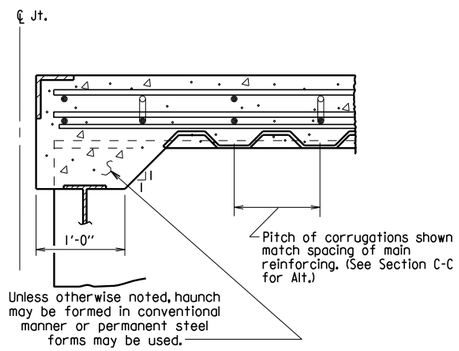
PART PLAN - SQUARE SPAN

3/8" = 1'-0"



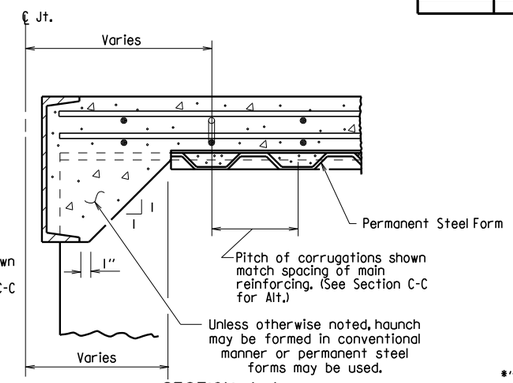
PART PLAN - SKEWED SPAN

3/8" = 1'-0"



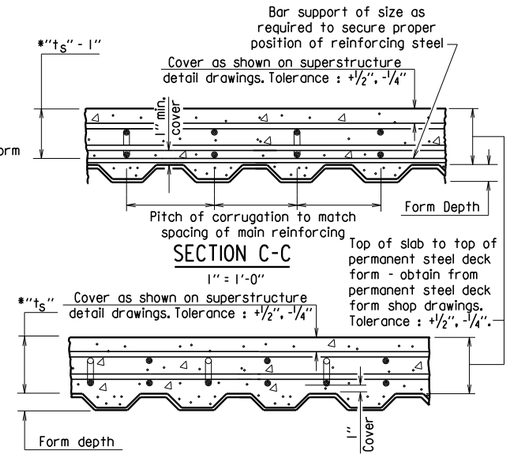
SECTION A-A

N.T.S.
(Angle at end of span)



SECTION A-A

N.T.S.
(Channel at end of span)

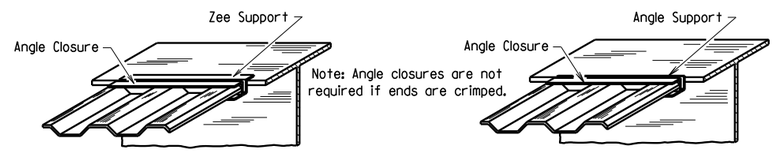


SECTION C-C

1" = 1'-0"

SECTION C-C - ALTERNATE

1" = 1'-0"
(Applicable when corrugations do not match spacing of main reinforcement)



SKETCH OF PERMISSIBLE SUPPORTS

N.T.S.

$*t_s$ = slab thickness as shown on superstructure detail drawings.

GENERAL NOTES

Permanent steel deck forms may be used at the Contractor's option and shall be at no additional cost to the Department. Such use may result in changes to the dead load deflection of the girder. Any cost for adjustments due to a change in the dead load deflection will be borne by the Contractor. Payment for deck concrete and structural steel will not be increased due to use of permanent steel deck forms.

Permanent steel deck forms shall conform to Subsection 802.14(b). Detailed plans, including detailed calculations and manufacturer's technical brochure, shall be submitted to and approved by the Engineer before work of forming the bridge deck is started.

Welding of form supports to the tension flange of steel girders will be permitted only in areas where shear connectors are used. When welding is not allowed, the method of fastening Z or ∠ supports to the flange must be approved by the Engineer.

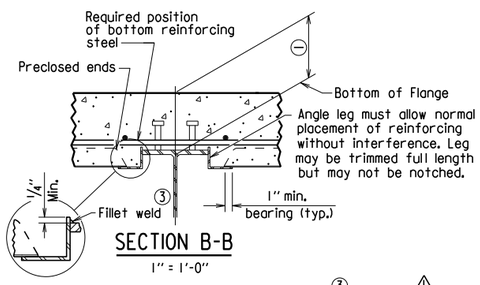
Form sheets shall be fastened to supporting members and to each other with galvanized metal screws sufficient in size and number to provide a secure attachment. Alternate methods of attachment must be approved by the Engineer.

When the pitch of form corrugations match the reinforcing spacing, transversely align form sheets across the bridge to maintain the correct orientation of continuous reinforcing bars in the corrugations.

Bar support rods, when used, shall be sized and spaced to adequately support the bottom reinforcing mat at the required position.

High chairs shall be sized to support the top mat of reinforcing at the proper position. High chairs shall be placed at locations shown on the detail drawings.

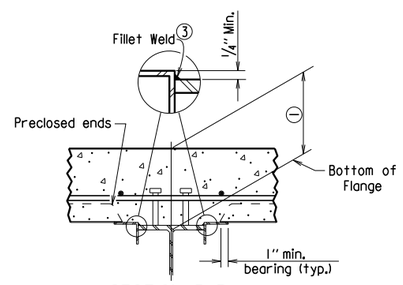
Specifications: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 Edition), with applicable Supplemental Specifications and Special Provisions.



SECTION B-B

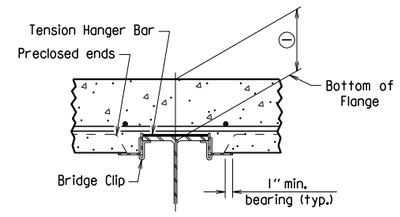
1" = 1'-0"
(Showing permissible support for tension flange where shear connectors are used, and for all compression flanges)

③ ⚠ Minimum weld: 1/8" x 1" @ 18". More weld may be required; maximum length per weld = 1 1/2" (typ.)



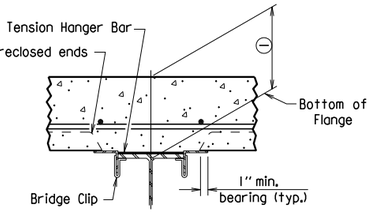
SECTION B-B

1" = 1'-0"
(Showing permissible support for tension flange where shear connectors are used and for all compression flanges)



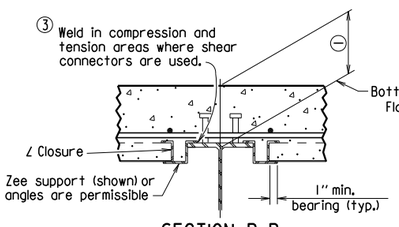
SECTION B-B

1" = 1'-0"
(Showing permissible support for tension flange where shear connectors are not used)



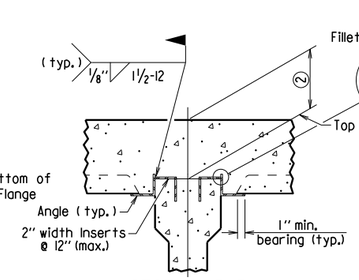
SECTION B-B

1" = 1'-0"
(Showing permissible support for tension flange where shear connectors are not used)



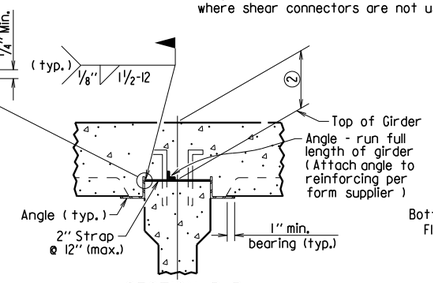
SECTION B-B

1" = 1'-0"
(Showing ∠ Closure)



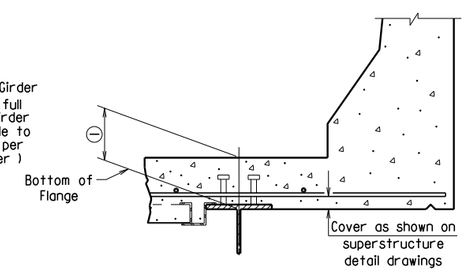
SECTION B-B
(FOR CONCRETE GIRDERS)

1" = 1'-0"
(Showing support by Insert cast in girder)



SECTION B-B
(FOR CONCRETE GIRDERS)

1" = 1'-0"
(Showing support by Strap)



SECTION D-D

1" = 1'-0"
Note: Only Bottom Reinforcing is shown.

① Distance from top of slab to bottom of top flange as measured at centerline girder and as shown on superstructure detail drawings. This dimension may vary within the following limits to maintain the grade and slab thickness tolerances : Minimum - occurs when either the top flange or the support angle leg contacts the bottom reinforcing steel; Maximum = t_s + 1 3/4" + flange thickness. See Section C-C for slab thickness tolerance between adjacent girder flanges.

② Distance from top of slab to top of girder as measured at centerline girder and as shown on superstructure detail drawings. This dimension may vary within the following limits to maintain the grade and slab thickness tolerances : Minimum - occurs when either the top of girder or the support angle leg contacts the bottom reinforcing steel; Maximum - value shown on the superstructure detail drawings when removable forms are used. See Section C-C for slab thickness tolerance between adjacent girder flanges.

⚠ Revised weld dimension by KWY, Ck'd. by BEF, 3/24/16.

STANDARD DETAILS FOR PERMANENT STEEL BRIDGE DECK FORMS FOR STEEL & CONCRETE GIRDER SPANS

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY:	KDH	DATE:	2-27-2014	FILENAME:	b55005.dgn
CHECKED BY:	BEF	DATE:	2-27-2014	SCALE:	NONE
DESIGNED BY:	STD.	DATE:	—		

DRAWING NO. 55005

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
				1		GENERAL NOTES	55006	

GENERAL NOTES

These GENERAL NOTES are applicable unless otherwise shown in the Plan Details, Special Provisions, or Supplemental Specifications.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 Edition) with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Standard Specifications.

DESIGN SPECIFICATIONS: See Bridge Layout(s).

SUPERSTRUCTURE NOTES:

MATERIALS AND STRENGTHS:

Class S(AE) Concrete	f'c =	4,000 psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A)	fy =	60,000 psi
Structural Steel (AASHTO M 270, Gr. 36)	Fy =	36,000 psi
Structural Steel (AASHTO M 270, Gr. 50)	Fy =	50,000 psi
Structural Steel (AASHTO M 270, Gr. 50W)	Fy =	50,000 psi
Structural Steel (AASHTO M 270, Gr. HPS70W)	Fy =	70,000 psi

See Plan Details for Grade(s) of Structural Steel required.

CONCRETE:

All concrete shall be Class S(AE) with a minimum 28 day compressive strength f'c = 4,000 psi. Concrete shall be poured in the dry and all exposed corners shall be chamfered 3/4" unless otherwise noted.

The superstructure details shown are for use when removable deck forming is used and are the basis for measurement of Class S(AE) Concrete. See Standard Drawing No. 55005 for allowable modifications and for tolerances when Permanent Steel Bridge Deck Forms are used.

Use of a longitudinal screed is not permitted on any span of a bridge deck with horizontal curvature.

The concrete deck (roadway surface) shall be given a tine finish in accordance with Subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish. Sidewalks shall receive a broomed finish as specified for final finishing in Subsection 802.19 for Class 6 Broomed Finish. Movement of the finishing machine across new concrete shall be on planks placed on the surface and shall be prohibited for 72 hours after finishing the pour. Sufficient concrete must be placed ahead of the strike-off to fully load the beam or girder. When permitted, the use of a longitudinal strike-off will require that a vertical camber adjustment be made in the strike-off to account for the future dead load deflection due to any railings, median barrier, and sidewalks.

REINFORCING STEEL:

All reinforcing steel shall be Grade 60 conforming to AASHTO M 31 or M 322, Type A, with mill test reports and shall be epoxy coated. The reinforcing steel is to be accurately located in the forms and firmly held in place by steel wire supports, sufficient in number and size to prevent displacement during the course of construction. The wire supports will not be paid for directly, but will be considered subsidiary to the item "Epoxy Coated Reinforcing Steel (Grade 60)".

STRUCTURAL STEEL (COMMON TO W-BEAMS AND PLATE GIRDERS):

Structural steel shall be AASHTO M 270 with grade and payment as specified in the plans. Grade 50W steel shall not be painted and all exposed surfaces shall be cleaned in accordance with Subsection 807.84(e). Grade 36 and Grade 50 steel shall be painted unless otherwise noted and all exposed surfaces shall be cleaned in accordance with Subsection 807.84. Structural steel completely embedded in concrete may be AASHTO M 270, Gr. 36, Gr. 50 or Gr. 50W unless otherwise noted.

Drawings show general features of design only. Shop drawings shall be made in accordance with the specifications, submitted and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Payment will be based on the basis of shapes and materials shown in the plans, and no additional compensation will be made for any adjustments due to substitutions.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether permanent or temporary, a formal request with detailed drawings shall be submitted to the Engineer for approval; however, additional welds used for attaching falsework support devices or screed rail supports to the structural steel that do not exceed the limitations of Subsection 802.13 will not require approval prior to construction. All welding shall conform to Subsection 807.26.

Unless otherwise noted, field connections shall be bolted with 3/4" ø high-strength bolts using 13/16" ø open holes. Holes for 3/4" ø high-strength bolts may be 15/16" ø if a washer is supplied for use under both the nut and head of the bolt. The use of oversized holes will not be allowed on main members unless otherwise noted. Bolts shall be placed with heads on the outside face of the exterior beam or girder webs and on the bottom of the beam or girder flanges.

All stud shear connectors shall be granular flux filled, solid fluxed, or equal and shall be automatically end welded in accordance with recommendations of the Manufacturer.

When painting is required, all structural steel except galvanized steel and steel completely encased in concrete shall be painted in accordance with Subsection 807.75. The color of paint shall be as specified in the plans.

STRUCTURAL STEEL (W-BEAMS):

All beams and field splice plates, and all diaphragms and connection plates attached to horizontally curved beams are considered main load carrying members and shall meet the Longitudinal Charpy V-Notch Test specified in Subsection 807.05. This work and material will not be paid for directly, but shall be considered subsidiary to the item "Structural Steel in Beam Spans (M 270, Gr. ___)".

All beams in continuous units and simple spans with field splices shall be blocked in their true position in the shop in groups as specified in Subsection 807.54(b)(2) with the webs horizontal. The camber, length of sections, distance between bearings, and openings of joints shall be measured and this information shall become part of the permanent records. The component parts shall be match marked in this assembly and these marks shall be shown on the erection diagram.

All beams in simple spans without field splices shall be blocked in their true position with webs horizontal. The camber, distance between bearings, and openings of joints shall be measured and this information shall become part of the permanent records.

Flange field splice plates shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses.

All beam dimensions are based on a temperature of 60 degrees F. A tolerance of 1/4" +/- is allowed for camber.

Bent plate diaphragms for horizontally curved beams shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses. Bent plate diaphragms for straight beams may be cut and fabricated in accordance with Subsection 807.35 or as required for horizontally curved beams.

Unless otherwise noted, diaphragms shall be installed as beams are erected. All bolts in diaphragms and field splices shall be installed and tightened in accordance with Subsection 807.71 prior to pouring the concrete deck.

STRUCTURAL STEEL (PLATE GIRDERS):

All references to cross-frames shall include "X" or "K" types.

All girder web and flange plates, all field splice plates, and all diaphragms, cross-frames and connection plates attached to horizontally curved girders are considered main load carrying members and shall meet the Longitudinal Charpy V-Notch Test specified in Subsection 807.05. This work and material will not be paid for directly, but shall be considered subsidiary to the item "Structural Steel in Plate Girder Spans (M 270, Gr. ___)".

All girders in continuous units and simple spans with field splices shall be assembled in the shop as specified in Subsection 807.54(b)(2) and blocked in their true position with webs horizontal. The camber, length of sections, distance between bearings, and openings of joints shall be measured and this information shall become part of the permanent records. The component parts shall be match marked in this assembly and these marks shall be shown on the erection diagram.

All girders in simple spans without field splices shall be blocked in their true position with webs horizontal. The camber, distance between bearings, and openings of joints shall be measured and this information shall become part of the permanent records.

Web and flange plates for main members and flange splice plates for main members shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses.

Girder webs may be made by shop splicing with minimum lengths of 25 feet for sections. Flange plates longer than 50 feet may be made by shop splicing with minimum lengths of 25 feet for sections. No additional payment will be made for shop welded splices.

All girder dimensions are based on a temperature of 60 degrees F. A tolerance of 1/4" +/- is allowed for camber.

Groove welds in web and flange plates shall be Quality Control (Q.C.) tested by nondestructive testing, as required in Subsection 807.23(b). Fillet welds at flange to web plate connections shall be Q.C. tested by the magnetic particle method. All Q.C. testing shall be considered subsidiary to the item "Structural Steel in Plate Girder Spans (M 270, Gr. ___)".

Bent plate diaphragms for horizontally curved girders shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses. Bent plate diaphragms for straight girders may be cut and fabricated in accordance with Subsection 807.35 or as required for horizontally curved girders.

Unless otherwise noted, cross-frames and diaphragms shall be installed as girders are erected. All bolts in cross-frames, diaphragms, and field splices shall be installed and tightened in accordance with Subsection 807.71 prior to pouring the concrete deck.

SUBSTRUCTURE NOTES:

CONCRETE:

Unless otherwise noted, concrete in caps, columns and footings (except seal footings) shall be Class "S" with a minimum 28 day compressive strength f'c = 3,500 psi and shall be poured in the dry. Seal Concrete for footings shall have a minimum 28 day compressive strength f'c = 2,100 psi.

Concrete in drilled shafts shall be Class "S" as modified by Job SP "Drilled Shaft Foundations".

All exposed corners shall be chamfered 3/4" unless otherwise noted.

REINFORCING STEEL:

All reinforcing steel shall be Grade 60 (yield strength = 60,000 psi) conforming to AASHTO M 31 or M 322, Type A, with mill test reports.

Top reinforcing bars in cap shall be properly placed to avoid interference with anchor bolts or sheet metal sleeves.

STRUCTURAL STEEL:

Structural steel in end bents shall be AASHTO M 270 with grade and payment as specified in the plans.

FOR ADDITIONAL INFORMATION AND NOTES, SEE LAYOUT(S) AND PLAN DETAILS.

STANDARD GENERAL NOTES
FOR STEEL BRIDGE STRUCTURES

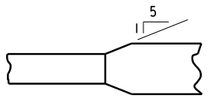
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY:	A.M.S.	DATE:	9-2-2015	FILENAME:	b55006.dgn
CHECKED BY:	B.E.F.	DATE:	9-2-2015	SCALE:	NO SCALE
DESIGNED BY:	STD.	DATE:			

DRAWING NO. 55006

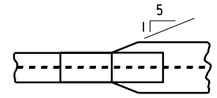
PRINT DATE: 11/7/2019

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
				1	STEEL BRIDGE STRUCTURES 55007			

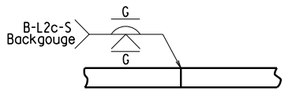


Plan-Unequal Width (Flg.)

FLANGE SPLICE

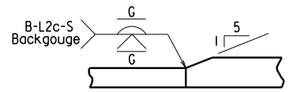


FLANGE SPLICE AT UNEQUAL BOTTOM FLANGE WIDTHS



Equal Thickness

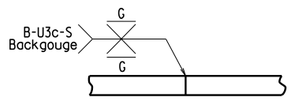
WEB & FLANGE SPLICE



Unequal Thickness

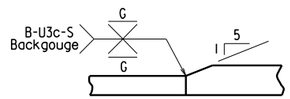
FLANGE SPLICE

(Use when Base Metal Thickness is Equal to or Less than 2")



Equal Thickness

WEB & FLANGE SPLICE

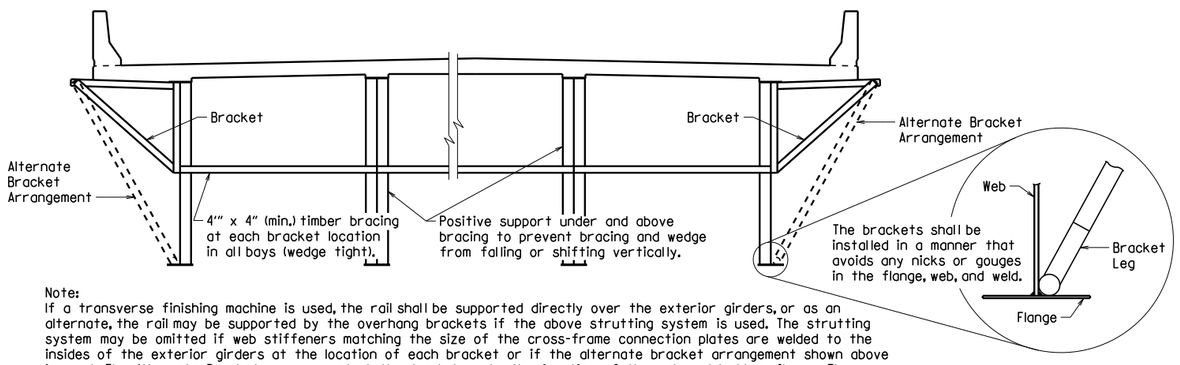


Unequal Thickness

FLANGE SPLICE

(Use when Base Metal Thickness is Greater than 2")

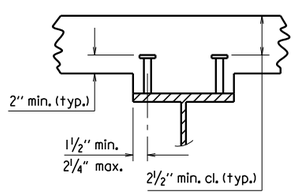
DETAILS OF WELDED SPLICES FOR PLATE GIRDERS



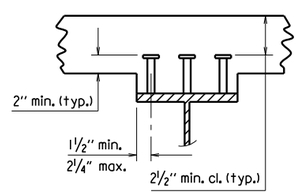
Note:
If a transverse finishing machine is used, the rail shall be supported directly over the exterior girders, or as an alternate, the rail may be supported by the overhang brackets if the above strutting system is used. The strutting system may be omitted if web stiffeners matching the size of the cross-frame connection plates are welded to the insides of the exterior girders at the location of each bracket or if the alternate bracket arrangement shown above is used. The Alternate Bracket arrangement shall extend down to the junction of the web and bottom flange. The stiffener shall conform to the details for cross frame connection plates shown on the plans. No direct payment will be made for brackets, timber bracing, supports, or welded stiffeners. Payment shall be subsidiary to "Structural Steel in Plate Girder Spans (____)".

SCREED RAIL SUPPORT FOR PLATE GIRDERS

(USE WHEN WEB DEPTHS ARE 48" OR GREATER)



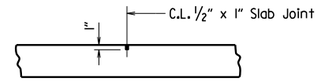
2 STUDS PER ROW



3 STUDS PER ROW

Stud Shear Connectors shall be automatically end welded to the beam or girder flange in accordance with the recommendations of the Manufacturer. See plan details for number and size.

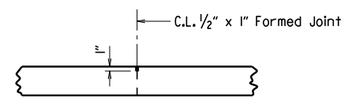
SHEAR CONNECTOR DETAIL



Use Type 3 or 4 Joint Sealer. See Subsections 501.02(h) and 501.05(j). Backer Rod filler will not be required. Joint Sealer shall be measured and paid for as Class S(AE) Concrete-Bridge. Slab Joints shall extend to the outside edge of the deck slab and shall align with open joints at the front face of the parapet. Slab joints shall be installed before the parapet railing is poured. If slab joints are to be sawed, they shall be sawed as soon as the concrete has sufficiently set to allow sawing of the joint without damage to the slab. Slab joints shall be placed at all pouring sequence construction joints and required slab joint locations. The joint sealer shall extend across the deck from gutterline to gutterline.

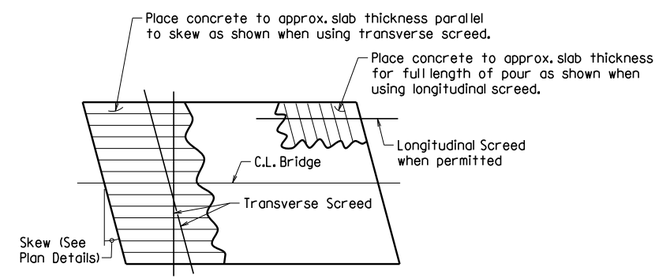
ADDITIONAL NOTES IF SIDEWALKS OR RAISED MEDIANS ARE REQUIRED:
Slab Joints shall be installed before the sidewalk or raised median is poured. After installation of the joint in the sidewalk or raised median and prior to pouring the parapet rail, the joint sealer shall be placed extending across the deck slab from gutterline to gutterline and acrosss the top of the sidwalk or raised median to the edge of the slab. No joint sealer shall be placed on the deck slab under the sidewalk or raised median.

TRANSVERSE SLAB JOINT DETAIL



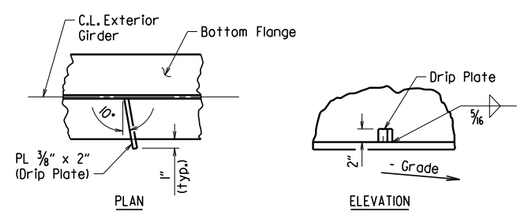
Use ½" x 1" Type 3 or 4 Joint Sealer. See Subsections 501.02(h) and 501.05(j). Backer Rod filler will not be required. Joint sealer shall be measured and paid for as Class S(AE) Concrete-Bridge. This joint shall be formed. Seal color shall be gray or other color similar to concrete.

LONGITUDINAL CONSTRUCTION JOINT



Note: At the Contractor's option, the transverse screed may be placed parallel to the skew or perpendicular to C.L. Bridge.

CONCRETE PLACEMENT PROCEDURE FOR BRIDGES WITH SKEW



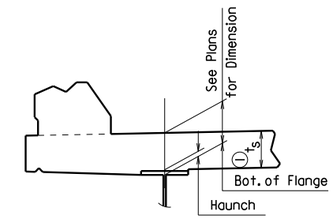
Drip Plate to be welded to the outer side of the bottom flange of the exterior girders.

Locate drip plate 5'-0" from C.L. Bearing on high side of each Bent, unless otherwise noted in the plans.

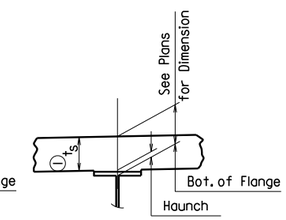
BOTTOM FLANGE DRIP PLATE

(USE WHEN WEB DEPTHS ARE 54" OR GREATER AND UNIT OR SPAN IS NOT IN LEVEL GRADE)

t_s = slab thickness. See "Typical Roadway Section" in the plans.



EXTERIOR BEAM OR GIRDER



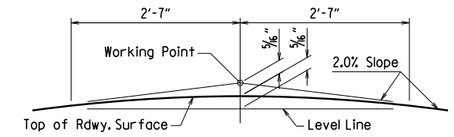
INTERIOR BEAM OR GIRDER

(1) Tolerance when removable deck forming is used is + ½", - ¼". Haunch forming is required and shall be adjusted to maintain slab thickness tolerance.

NOTES:
Haunch dimension may vary within the following limits to maintain the grade and slab thickness tolerance: Minimum occurs when top flange contacts bottom reinforcing steel; Maximum = top flange thickness plus 1¾" unless otherwise noted in the plans. No increase in concrete and structural steel quantities will be made to maintain tolerances.

Tolerances shown are applicable only when removable deck forming is used. See Std. Dwg. No. 55005 for tolerances when permanent steel deck forms are used. Payment for concrete shall be based on removable deck forming.

ADJUSTMENT FOR SLAB THICKNESS TOLERANCE



NOTE: Working Point matches Theoretical Roadway Grade.

ROUNDING DETAIL

BRIDGES IN NORMAL CROWN

WELD TABLE

Material Thickness of Thicker Part Joined (Inches)	Minimum Size of Fillet Weld (Inches)	Single Pass Weld Must Be Used
To ¾" Inclusive	¼"	
Over ¾"	5/16"	

NOTE: When a fillet weld size, as shown on the plans, is larger than the minimum, the first pass shall be that specified for minimum size of fillet weld.

SECTION AND SUBSECTION REFER TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION).

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

STANDARD DETAILS FOR STEEL BRIDGE STRUCTURES

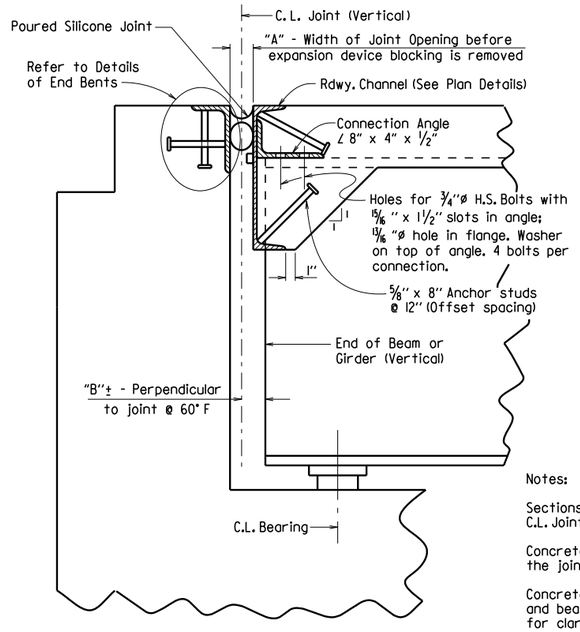
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY:	JYP	DATE:	2/11/2016	FILENAME:	b55007.dgn
CHECKED BY:	AMS	DATE:	2/11/2016	SCALE:	No Scale
DESIGNED BY:	STD.	DATE:	—		

DRAWING NO. 55007

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
				1	POURED SILICONE JOINT			55008



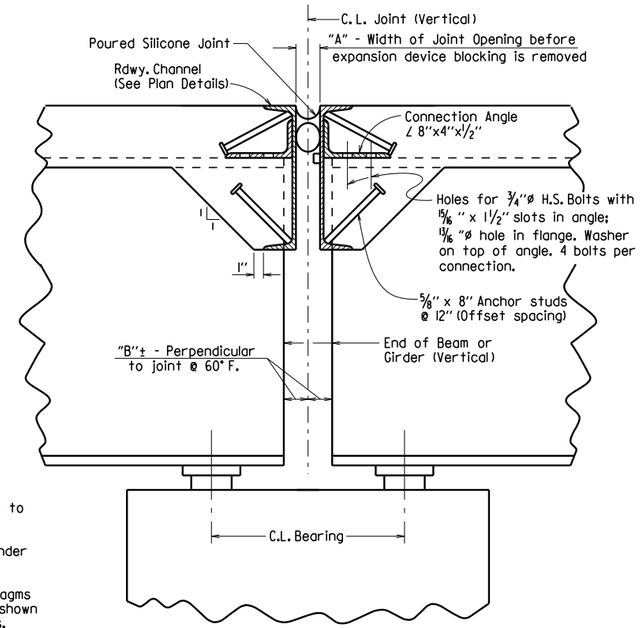
SECTION THRU JOINT AT END BENT

Notes:

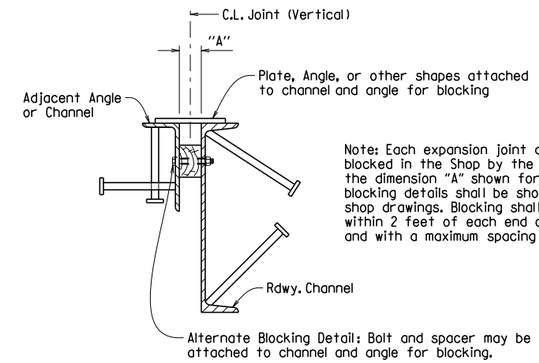
Sections are taken perpendicular to C.L. Joint.

Concrete shall be hand packed under the joint armor.

Concrete diaphragms, steel diaphragms and bearing stiffeners are not shown for clarity. See plans for details.



SECTION THRU JOINT AT INTERMEDIATE BENT



Note: Each expansion joint device shall be blocked in the Shop by the Fabricator to the dimension "A" shown for 60° F and the blocking details shall be shown on the shop drawings. Blocking shall be placed within 2 feet of each end of the device and with a maximum spacing of 8 feet.

DETAILS FOR BLOCKING EXPANSION JOINT DEVICE

EXPANSION DEVICE INSTALLATION AT END BENTS:

The Contractor may elect to install the expansion device using one of the following two alternatives:

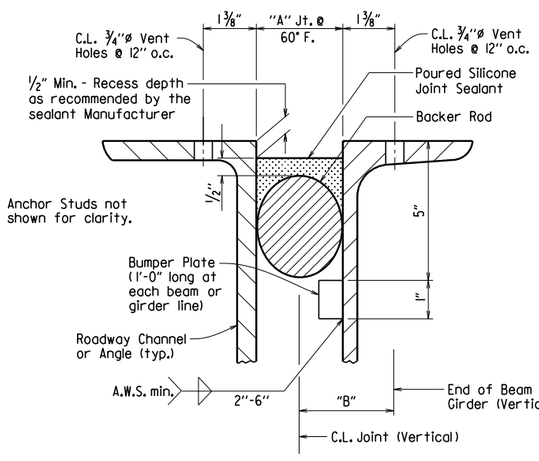
1) The concrete span pour adjacent to joint shall be placed before the end bent backwall is placed. After the end bent backwall forms are in place and the beams or girders erected, the blocked expansion device shall be installed and adjusted for grade. All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the bent. Immediately prior to pouring the backwall concrete, the blocking shall be removed, and the opening adjusted for temperature and grade.

2) The backwall shall be poured to the optional construction joint after beams or girders are erected. The blocked expansion device shall be installed and adjusted for grade. All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the bent. Immediately prior to pouring the remainder of the backwall concrete, the blocking shall be removed and the opening adjusted for temperature and grade.

EXPANSION DEVICE INSTALLATION AT INTERMEDIATE BENTS:

After all beams or girders on each side of the joint are erected the blocked expansion device shall be installed and adjusted for grade. Deck concrete shall be placed for the entire unit or span on one side of the joint before deck concrete on the other side is placed. Connection bolts for the first side to have deck concrete placed shall be completely bolted. Bolts on the other side shall be loosely installed so that thermal and rotational movements will not be restricted during concrete placement on the first side.

Connection bolts on the second side shall remain loose until the concrete pour adjacent to the joint is to be placed. Immediately prior to pouring the span concrete on the second side, the blocking shall be removed, the joint adjusted for temperature and grade, and the connection bolts tightened.



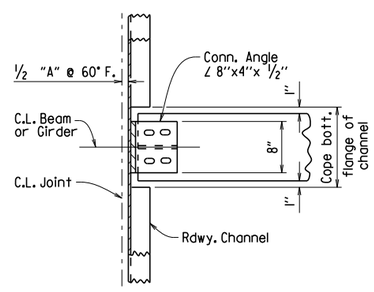
DETAIL OF POURED SILICONE JOINT

Silicone joint material and installation shall conform to Section 809. The temperature limitations recommended by the sealant Manufacturer shall be observed. The sealant shall be installed only when the average 24 hour air temperature is between 40° and 80° F.

Use an appropriately sized backer rod at the depth shown in the Manufacturer's literature based on the joint width at the time of sealing. Unless otherwise noted, do not install more backer rod than can be sealed in the same day.

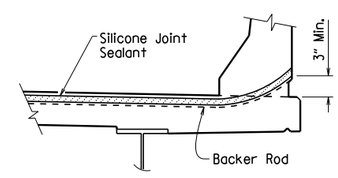
The Contractor shall verify separation of the backer rod from the joint material after the joint material has set.

When bridge deck is constructed in stages, backer rods shall be extended beyond length of poured joint in initial construction stage so that the two pieces can be properly spliced together prior to installing sealant in subsequent stages. Manufacturer's recommendations shall be followed to prevent sealant from "running out of joint" during stage construction.

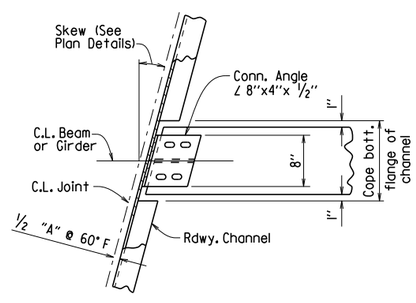


CHANNEL CONNECTION DETAIL

BENTS WITHOUT SKEW

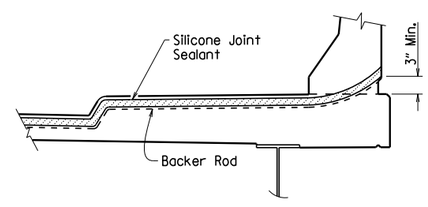


JOINT SEAL PLACEMENT AT RAIL



CHANNEL CONNECTION DETAIL

BENTS WITH SKEW



JOINT SEAL PLACEMENT AT SIDEWALK

SECTION AND SUBSECTION REFER TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION).

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS. SEE "TABLE OF SILICONE JOINT DATA" IN PLAN DETAILS FOR VARIABLES "A" AND "B", AND BUMPER PLATE SIZE.

STANDARD DETAILS FOR POURED SILICONE JOINTS

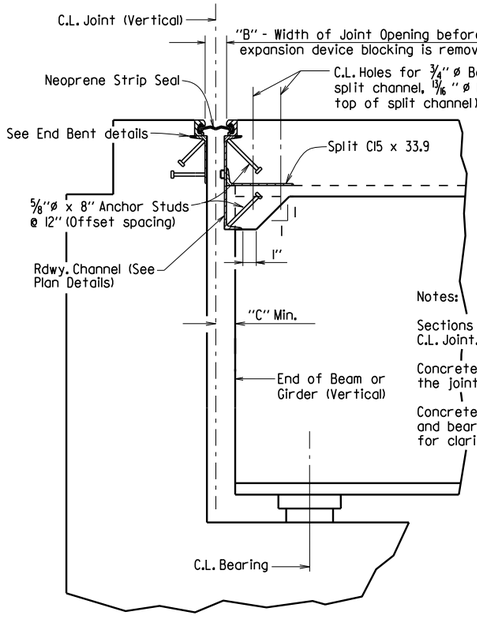
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

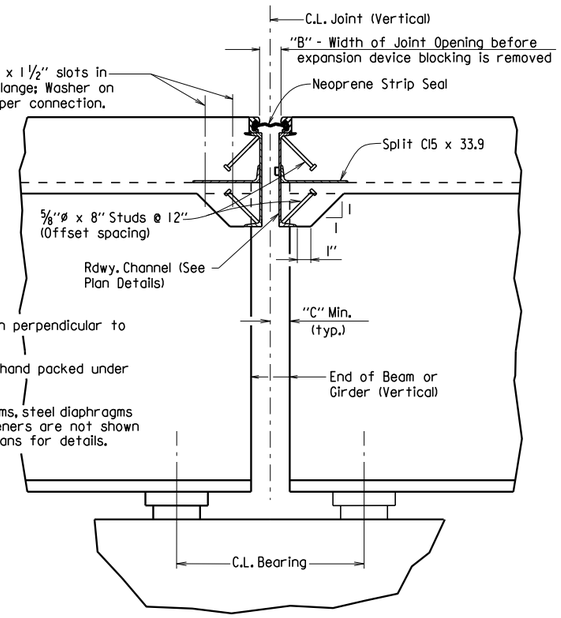
DRAWN BY:	A.C.P.	DATE:	2/11/2016	FILENAME:	b55008.dgn
CHECKED BY:	A.M.S.	DATE:	2/11/2016	SCALE:	No Scale
DESIGNED BY:	STD.	DATE:	—		

DRAWING NO. 55008

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
				1	STRIP SEAL JOINT		55009	



SECTION THRU JOINT AT END BENT



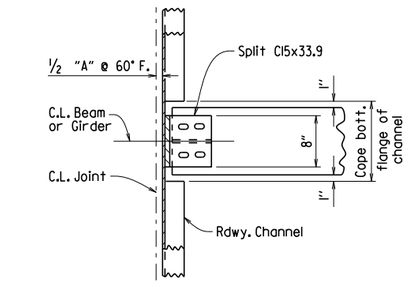
Notes:

Sections are taken perpendicular to C.L. Joint.

Concrete shall be hand packed under the joint armor.

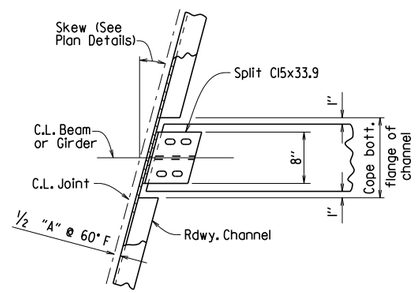
Concrete diaphragms, steel diaphragms and bearing stiffeners are not shown for clarity. See plans for details.

SECTION THRU JOINT AT INTERMEDIATE BENT



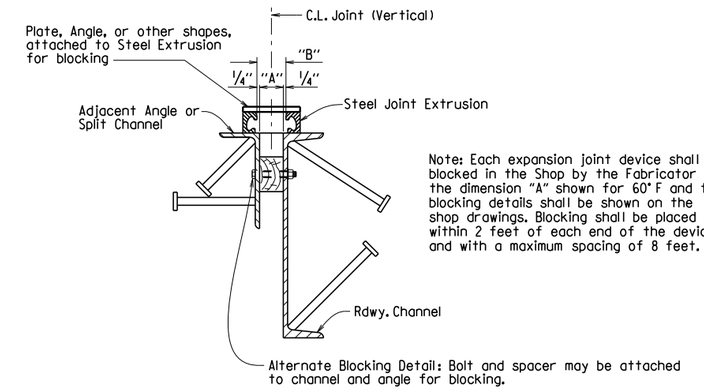
CHANNEL CONNECTION DETAIL

BENTS WITHOUT SKEW



CHANNEL CONNECTION DETAIL

BENTS WITH SKEW



Note: Each expansion joint device shall be blocked in the Shop by the Fabricator to the dimension "A" shown for 60° F and the blocking details shall be shown on the shop drawings. Blocking shall be placed within 2 feet of each end of the device and with a maximum spacing of 8 feet.

DETAILS FOR BLOCKING EXPANSION JOINT DEVICE

EXPANSION DEVICE INSTALLATION AT END BENTS:

The Contractor may elect to install the expansion device using one of the following two alternatives:

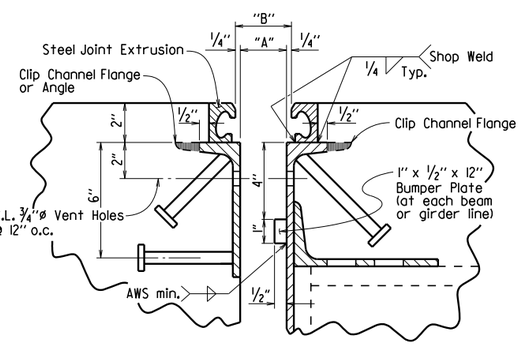
1) The concrete span pour adjacent to joint shall be placed before the end bent backwall is placed. After the end bent backwall forms are in place and the beams or girders erected, the blocked expansion device shall be installed and adjusted for grade. All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the bent. Immediately prior to pouring the backwall concrete, the blocking shall be removed, and the opening adjusted for temperature and grade.

2) The backwall shall be poured to the optional construction joint after beams or girders are erected. The blocked expansion device shall be installed and adjusted for grade. All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the bent. Immediately prior to pouring the remainder of the backwall concrete, the blocking shall be removed and the opening adjusted for temperature and grade.

EXPANSION DEVICE INSTALLATION AT INTERMEDIATE BENTS:

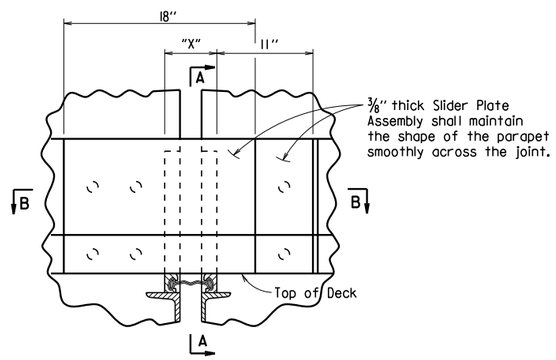
After all beams or girders on each side of the joint are erected the blocked expansion device shall be installed and adjusted for grade. Deck concrete shall be placed for the entire unit or span on one side of the joint before deck concrete on the other side is placed. Connection bolts for the first side to have deck concrete placed shall be completely bolted. Bolts on the other side shall be loosely installed so that thermal and rotational movements will not be restricted during concrete placement on the first side.

Connection bolts on the second side shall remain loose until the concrete pour adjacent to the joint is to be placed. Immediately prior to pouring the span concrete on the second side, the blocking shall be removed, the joint adjusted for temperature and grade, and the connection bolts tightened.



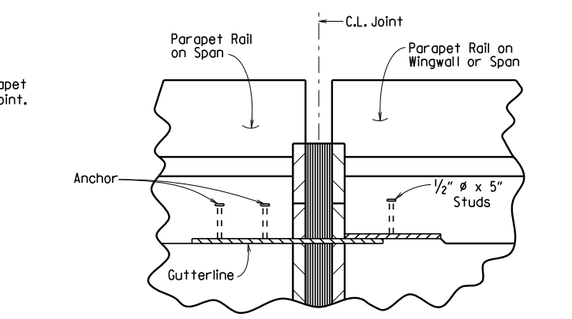
DETAIL OF STRIP SEAL JOINT

Detail shown at End Bent.
Details similar at Intermediate Bent



Dimension "X" equals the width of opening in parapet to allow for removal or repair of joint.

DETAIL OF PARAPET SLIDER PLATES



The method of attachment of the slider plate assembly shall allow for removal to provide for future replacement of the neoprene seal. Anchors shall not be paid for directly, but shall be considered subsidiary to the item "Armored Joint with Neoprene Strip Seal".

Method of installation and fabrication shall be determined by the Manufacturer.

SECTION B-B

BENTS WITHOUT SKEW SHOWN

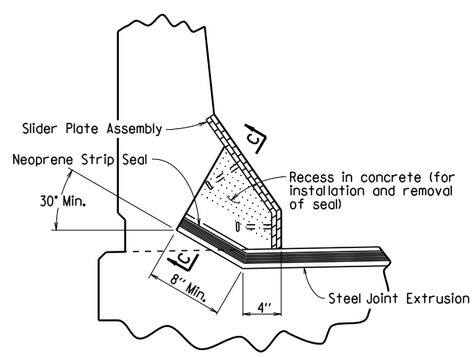
GENERAL NOTES FOR NEOPRENE STRIP SEAL JOINTS:

The steel extrusion and neoprene strip seal material and installation shall be in accordance with Section 809.

The expansion device shall provide for the movement rating(s) shown in the "TABLE OF STRIP SEAL JOINT DATA" in the plan details. The expansion joint shall be capable of sealing the deck surface and parapet area to prevent moisture and other contaminants from descending through the joint.

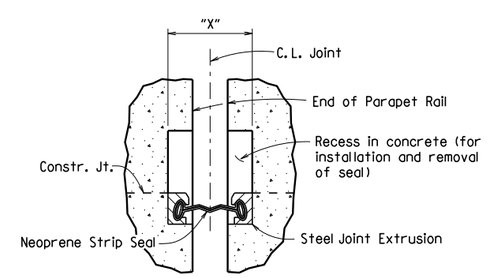
Details of proposed slider plate assembly shall be submitted to the Engineer for approval prior to the fabrication of any structural steel at the expansion device.

All structural steel shall conform to AASHTO M 270, Grade 50W and all exposed surfaces shall be cleaned in accordance with Subsection 807.84(e). The parapet slider plates and structural steel completely embedded in concrete shall conform to AASHTO M 270, Grade 36, 50 or 50W steel. Unless otherwise noted in the plans, all exposed surfaces of the parapet slider plates shall be cleaned and painted in accordance with Section 638. Painting shall not be paid for directly and structural steel completely embedded in concrete need not be painted. Payment for structural steel shall be as specified in the plans.



Details of Joint turn-up in parapet are general and show basic design controls only. See plan details for joint installation at sidewalks.

SECTION A-A



SECTION C-C

SECTION AND SUBSECTION REFER TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION).

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS. SEE "TABLE OF STRIP SEAL JOINT DATA" IN PLAN DETAILS FOR VARIABLES "A", "B", AND "C".

STANDARD DETAILS FOR NEOPRENE STRIP SEAL JOINTS

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

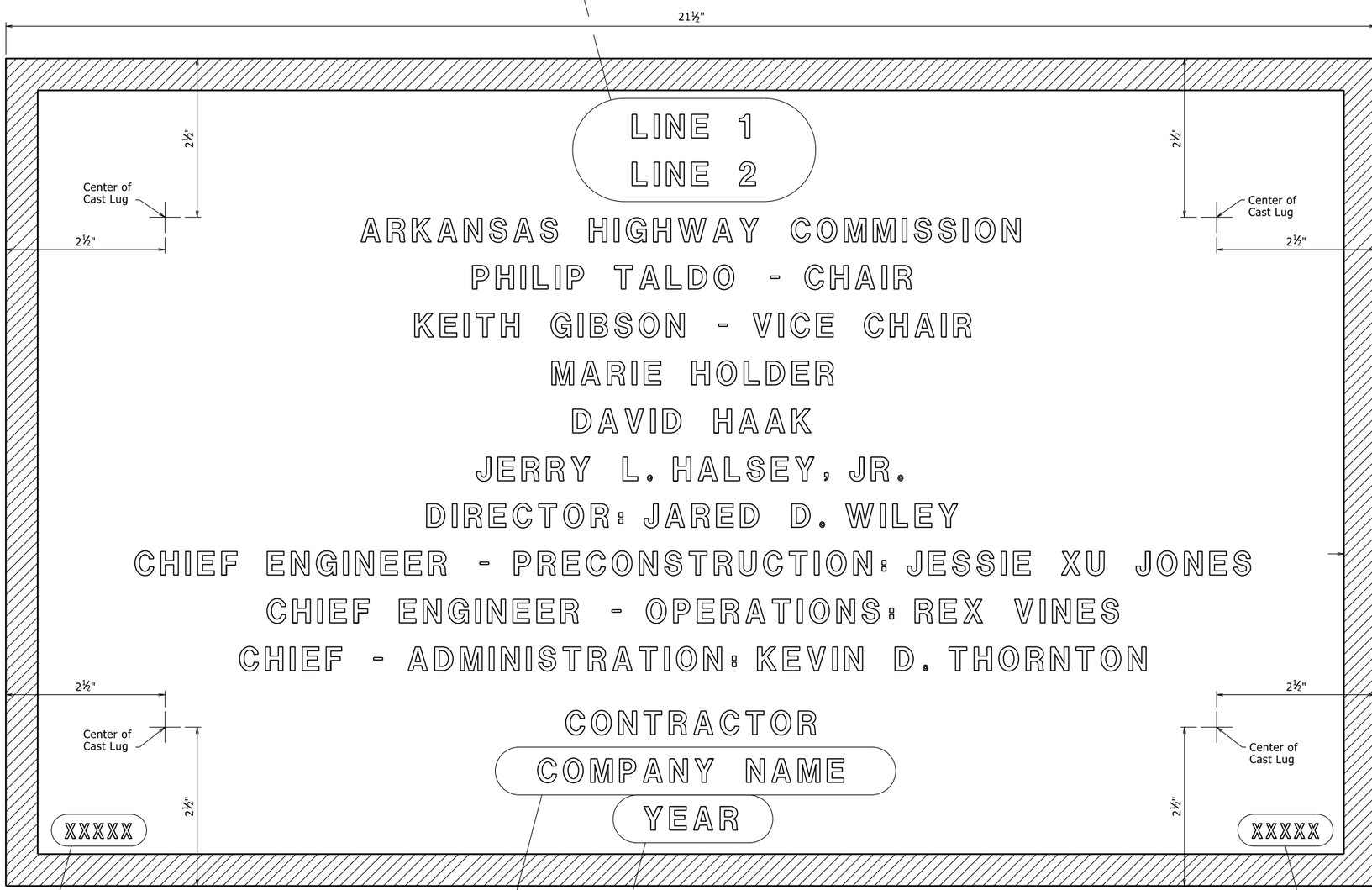
DRAWN BY:	L.J.B.	DATE:	2/11/2016	FILENAME:	b55009.dgn
CHECKED BY:	A.M.S.	DATE:	2/11/2016	SCALE:	No Scale
DESIGNED BY:	STD.	DATE:	—		

DRAWING NO. 55009

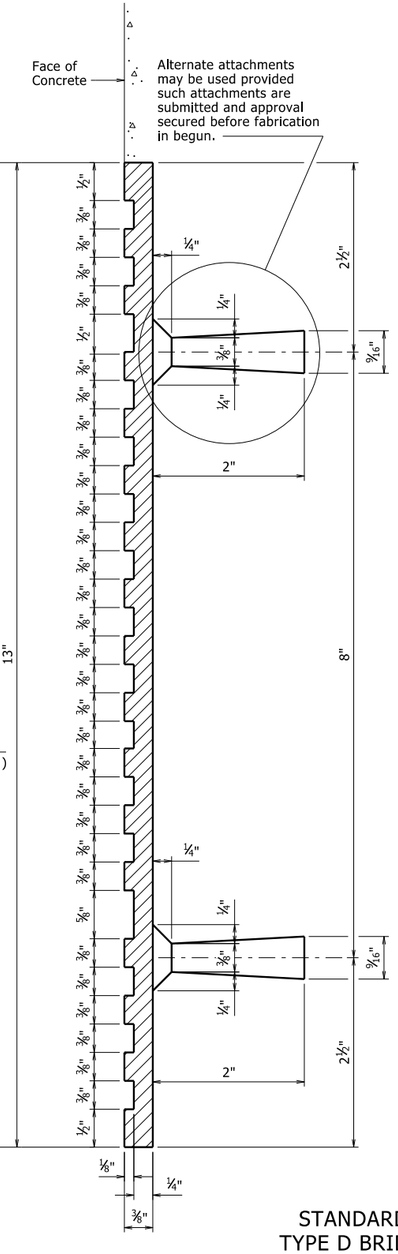
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
4-14-23		6	ARK.			
1-28-25		TYPE D NAME PLATE - 55010				

The name of the bridge as shown on the plans shall be placed on Lines 1 & 2 using ⅛" raised letters and numerals ⅜" high.

	Example 1	Example 2	Example 3	Example 4
Line 1	RED RIVER	SOUTHERN RAILROAD	SALINE RIVER	HIGHWAY 5
Line 2	RELIEF	OVERPASS		



TYPICAL BRIDGE NAME PLATE



GENERAL NOTES

Specifications: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, (2014 Edition) with applicable Supplemental Specifications and Special Provisions.

Name plates shall be cast bronze and shall meet the material requirements as specified in Section 812.

Body of plate shall be ¼" thick and shall include four tapering cone lugs ⅜" to 9/16" x 2" long. The border and all lettering shall be raised ⅛" above the face of plate and shall be polished.

All lettering shall be plain gothic, square cut and not tapered.

The number of plates required and the location and name on the plate for each bridge shall be as designated on the plans.

2 Updated names
1-28-25 CGP Checked By: CRE

1 Revised and Redrawn
4-14-23 CGP Checked By: CRE

STANDARD DETAILS FOR
TYPE D BRIDGE NAME PLATE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 2-27-2014 FILENAME: b55010.dgn
CHECKED BY: BEF DATE: 2-27-2014 SCALE: NO SCALE
DESIGNED BY: STD. DATE:

DRAWING NO. 55010

PRINT DATE: 1/28/2025

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3/24/16				6	ARK.			
				JOB NO.				
						STEEL H-PILES		55020

1

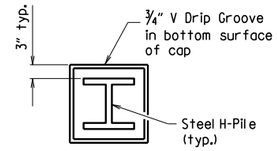
GENERAL NOTES FOR STEEL H-PILES:

Steel H-Piles shall conform to AASHTO M 270, Grade 36 or greater.

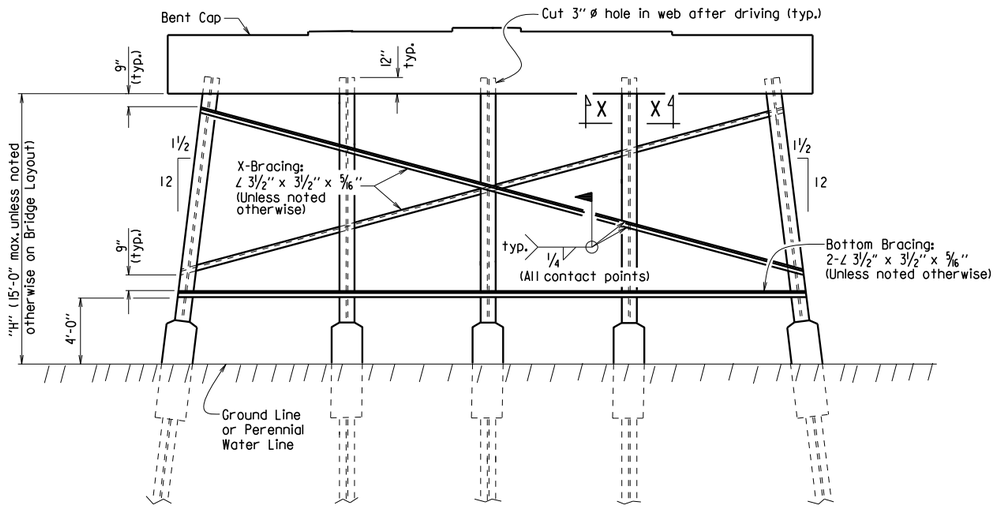
See Bridge Layout and Bent Details for pile size, estimated length, spacing, pile anchorage (if required) and for driving information.

Steel H-Piles that extend above the ground and are not protected by pile encasement shall be painted in accordance with Subsection 805.02.

Brackets, lugs, cap plates, pile tips, driving points, pile painting, splicing and welding shall not be paid for directly, but shall be considered subsidiary to the item "Steel Piling".



VIEW X-X



Notes:
All bracing shall be cut and welded in the field. Each brace shall be furnished in one piece. Payment shall be made under Item 807.

Unless noted otherwise, omit X-Bracing when "H" is less than 8 feet.

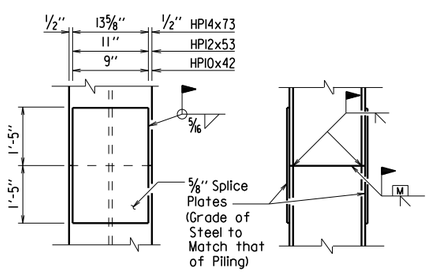
Omit X-Bracing and Bottom Bracing when "H" is 5 feet or less.

When required on the Bridge Layout sheet, pile encasements shall be constructed. See Notes and Details for H-Pile Encasements.

Omit all bracing (and V-groove in cap) when pile encasement is extended to bottom of bent cap.

TYPICAL DETAILS OF H-PILE TRESTLE INTERMEDIATE BENT

(Shown with Partial Height Encasement)



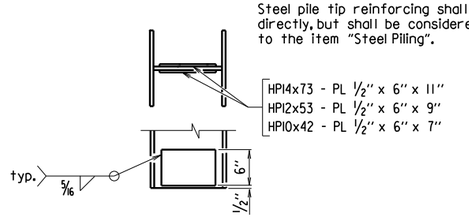
The Contractor may for his own convenience and at his own expense provide as many as three splices per pile. Minimum spacing between splices shall be 5 feet.

TYPICAL SPLICE DETAILS

⚠ H-pile splicers manufactured by Associated Pile and Fitting Corporation, LB Foster Piling, Skyline Steel or equivalent may be used in lieu of the "Typical Splice Details" shown. H-pile splicers shall match the same grade of steel specified for the piling and shall be welded to the pile with a 5/16" fillet weld around the entire perimeter of the splice. Flanges shall be welded with a complete penetration groove weld complying with AASHTO/AWS Joint Designation B-U4a or B-U4b. All welding shall conform to Subsection 807.26 of the AHTD Standard Specifcations for Highway Construction (2014 Edition).

Notes:
Steel pile tip reinforcing not required when approved H-Pile driving points are used.

Steel pile tip reinforcing shall not be paid for directly, but shall be considered subsidiary to the item "Steel Piling".



REINFORCING DETAIL FOR STEEL H-PILE TIP

GENERAL NOTES FOR H-PILE ENCASEMENTS:

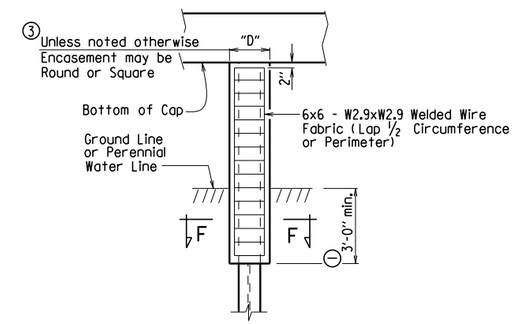
⚠ See Bridge Layout for additional notes, any pile encasement restrictions and required location of pile encasements.

All concrete shall be Class S with a minimum 28-day compressive strength, f'c = 3,500 psi. If concrete cannot be placed in the dry, Seal Concrete may be used from top to bottom of encasement.

Reinforcing steel shall be Grade 60 conforming to AASHTO M 31 or M 322, Type A.

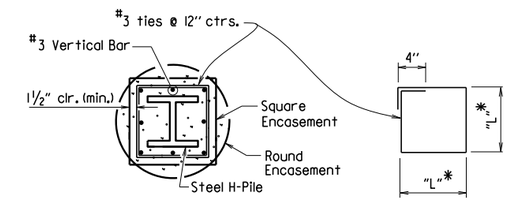
Welded Wire Fabric shall conform to AASHTO M 55 or M 221. Galvanized Corrugated Steel Pipe shall conform to AASHTO M 36 and M 218.

Concrete, welded wire fabric or reinforcing steel and galvanized pipe shall not be paid for directly, but shall be considered subsidiary to the item "Pile Encasement".



PILE ENCASEMENT DETAIL FOR STEEL H-PILES

4 (Shown with Encasement to Bottom of Cap)

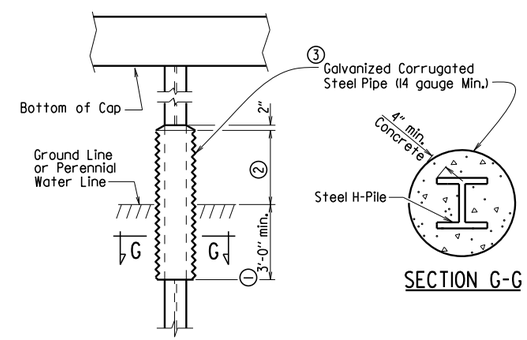


SECTION F-F

*Measured out-to-out of bar.

TABLE OF VARIABLES FOR PILE ENCASEMENT

Pile Size	"D" Square Encsmt.	"D" Round Encsmt.	"L"*
HP10x42	1'-7"	2'-0"	1'-4"
HP12x53	1'-8"	2'-2"	1'-5"
HP14x73	1'-11"	2'-6"	1'-8"



SECTION G-G

1 Unless otherwise noted on Bridge Layout.

2 3'-0" minimum or as shown on Bridge Layout.

3 Encasement dimensions shall be sized to maintain a minimum concrete cover of 4" from the H-Pile. Reinforcement shall be sized to provide a minimum concrete cover of 1 1/2" and a minimum clearance of 1 1/4" from the pile.

4 Alternate pile encasement, when not extended to bottom of cap, shall have 2" concrete taper for water runoff as shown in the Partial Height Encasement detail.

ALTERNATE PILE ENCASEMENT DETAIL FOR STEEL H-PILES

(Shown with Partial Height Encasement)

⚠ Added alternate method of splicing H-piles and revised pile encasement note.
3/24/2016 AMS

This document was originally issued and sealed by Charles R. Ellis, PE No. 9235, on March 24, 2016. This copy is not a signed and sealed document.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS

BRIDGE ENGINEER

STANDARD DETAILS FOR STEEL H-PILES AND PILE ENCASEMENTS

ARKANSAS STATE HIGHWAY COMMISSION

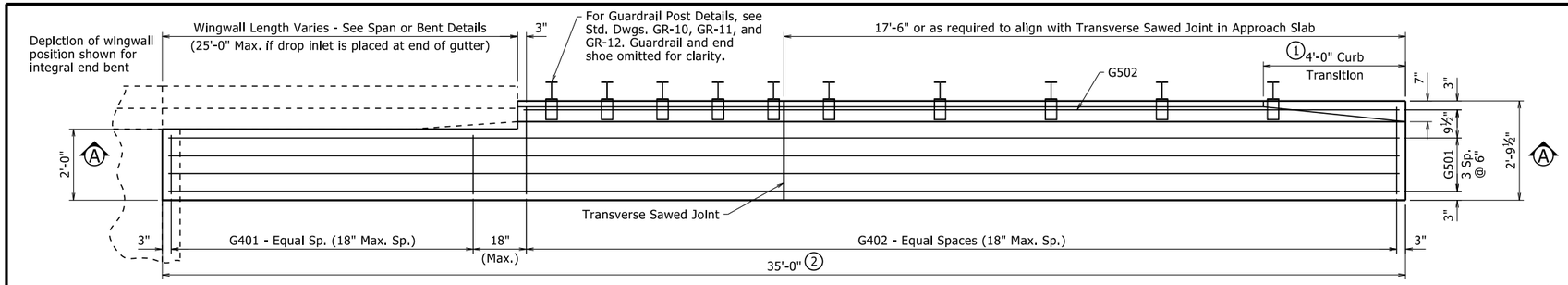
LITTLE ROCK, ARK.

DRAWN BY:	A.M.S.	DATE:	2/27/2014	FILENAME:	b55020.dgn
CHECKED BY:	B.E.F.	DATE:	2/27/2014	SCALE:	NO SCALE
DESIGNED BY:	STD.	DATE:	—		

DRAWING NO. 55020

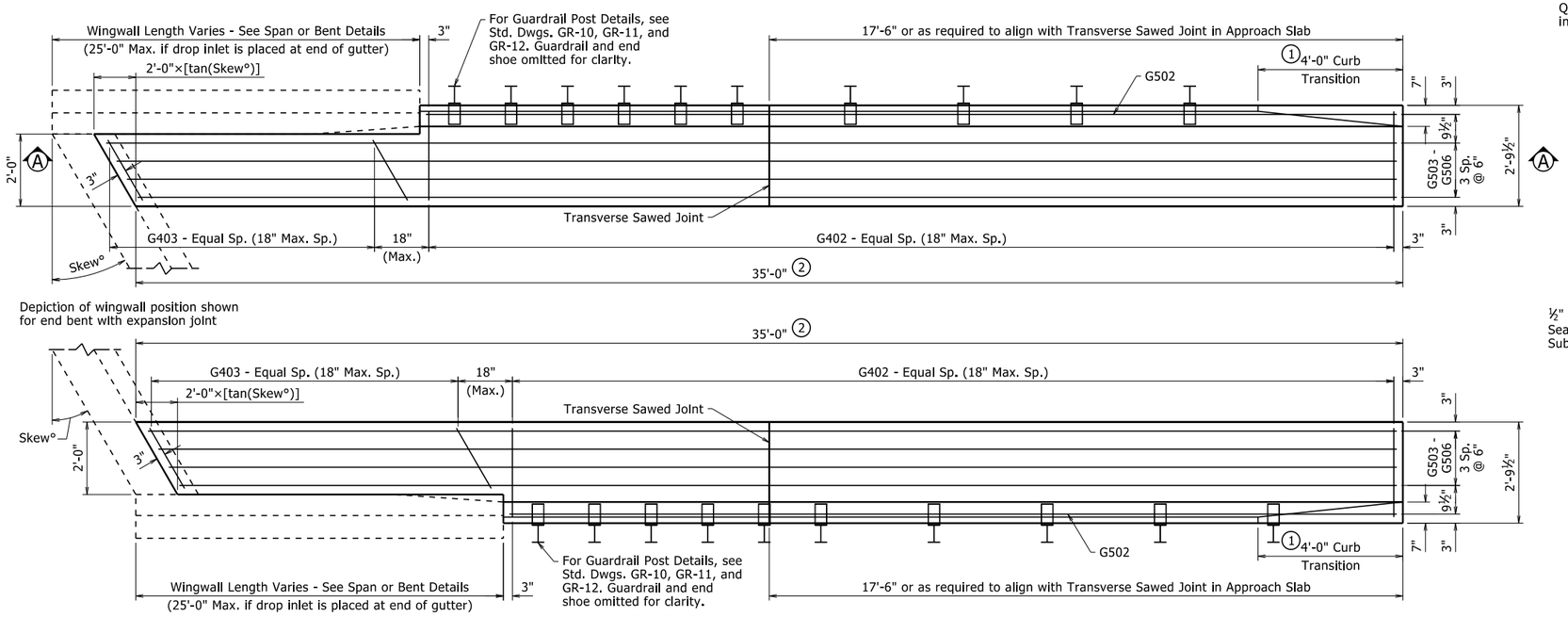
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				

(1) Type F Approach Gutters - 55030F



HALF PLAN OF APPROACH GUTTERS FOR SQUARE END BENT

½" = 1'-0"



PLAN OF SKEWED APPROACH GUTTERS FOR SKEWED END BENT

½" = 1'-0"

QUANTITIES FOR ONE APPROACH GUTTER

(For Information Only)

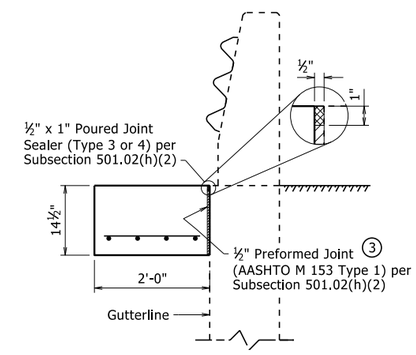
Reinforcing Steel (Lbs.)	Concrete (Cu. Yds.)
210	4.20

Quantities are based on one gutter for a square, integral end bent and a wingwall length of 10'-0"

BAR LIST FOR ONE APPROACH GUTTER

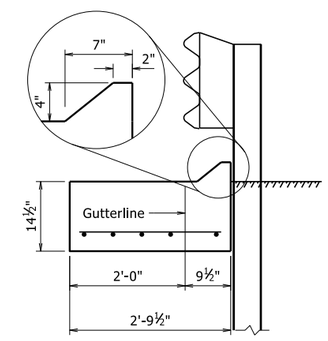
	Mark	No. Req'd.	Length
Square End Bent	G401	(4)	1'-8"
	G402	(4)	2'-5½"
	G501	4	34'-8"
	G502	1	(4)
Skewed End Bent	G402	(4)	2'-5½"
	G403	(4)	(4)
	G502	1	(4)
	G503 - G506	1 ea.	(4)

(4) Varies with Skew and/or Wingwall Length



SECTION B-B

¾" = 1'-0"



SECTION C-C

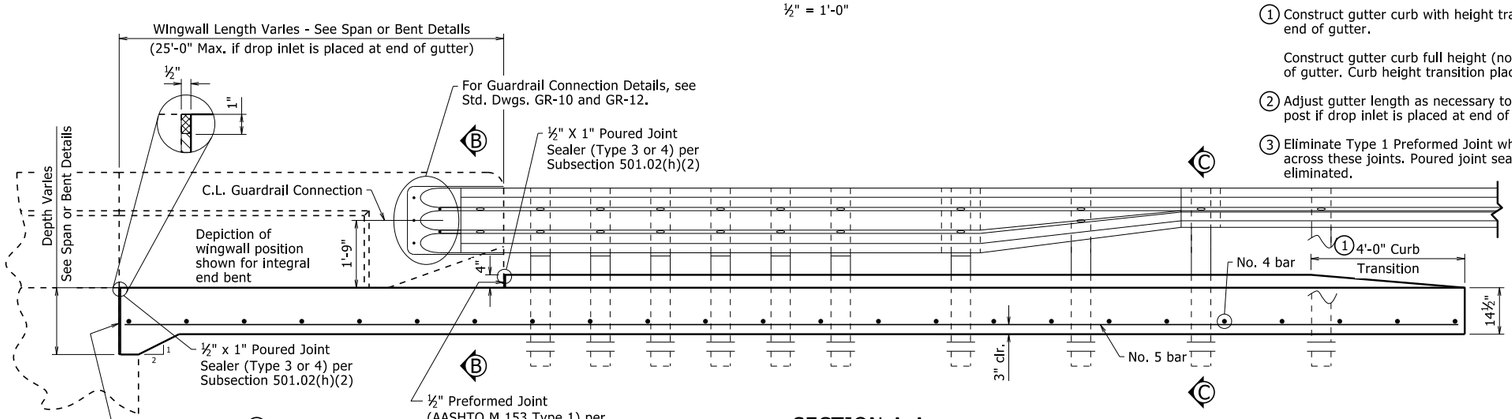
¾" = 1'-0"

(1) Construct gutter curb with height transition as shown if drop inlet is not placed at end of gutter.

Construct gutter curb full height (no height transition) if drop inlet is placed at end of gutter. Curb height transition placed on drop inlet.

(2) Adjust gutter length as necessary to avoid outlet pipe interference with guardrail post if drop inlet is placed at end of gutter.

(3) Eliminate Type 1 Preformed Joint when bridge details show reinforcing dowels across these joints. Poured joint sealer is required, however, backer rod shall be eliminated.



SECTION A-A

½" = 1'-0"

(Approach Gutter for Square End Bent Shown)

GENERAL NOTES

All concrete shall be Class S(AE) with a minimum 28 day compressive strength f'c = 4,000 psi and shall be poured in the dry.

All reinforcing steel shall be Grade 60 (yield strength = 60,000 psi) conforming to AASHTO M 31 or M 322, Type A, with mill test reports.

Approach Gutters will be measured and paid for in accordance with Section 504.

All longitudinal lines within the limits of horizontal curves shall be on curves concentric to C.L. Bridge. Adjustment to longitudinal bar lengths may be required. Transverse reinforcing shall be placed on radial lines to C.L. Bridge.

Scales shown are for 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

STANDARD DETAILS FOR
TYPE F APPROACH GUTTERS

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

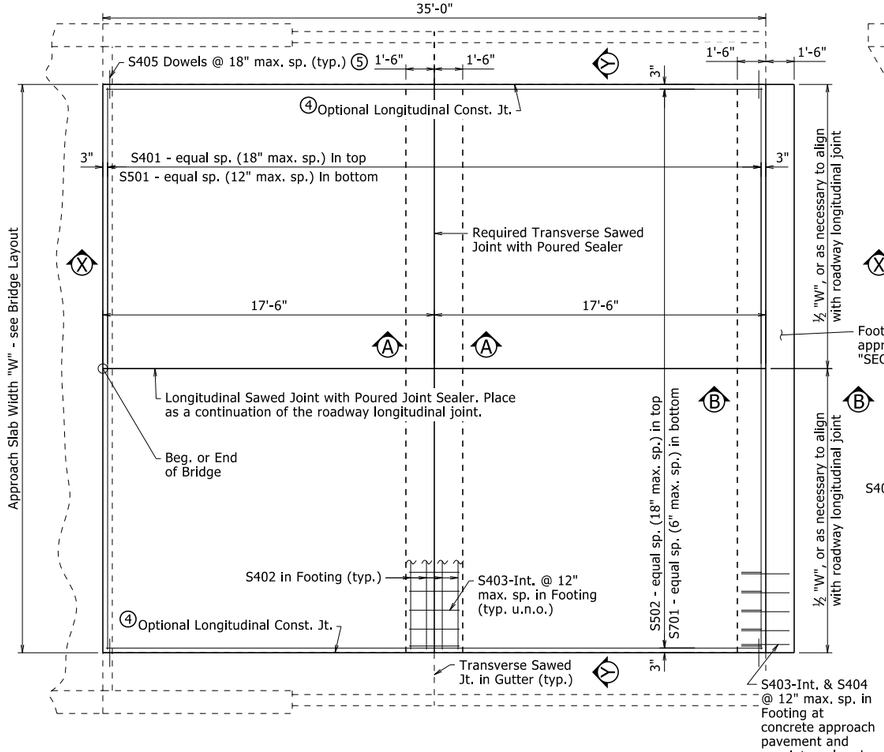
DRAWN BY:	NAC	DATE:	4-8-2021	FILENAME:	b55030f.dgn
CHECKED BY:	LJB	DATE:	4-8-2021	SCALE:	AS NOTED
DESIGNED BY:	STD	DATE:	-		

DRAWING NO. 55030F

PRINT DATE: 4/9/2021

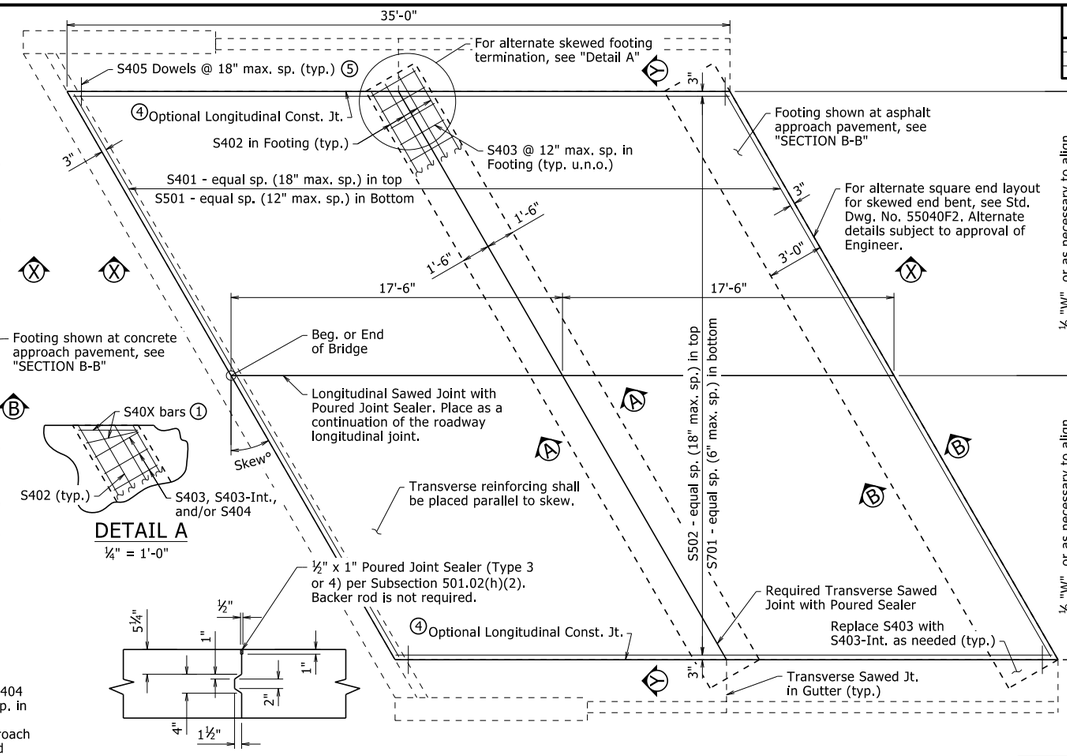
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			

Type F Approach Slab - 55040F1



PLAN - APPROACH SLAB AT SQUARE END BENT

Integral End Bent Shown
¼" = 1'-0"



DETAIL A

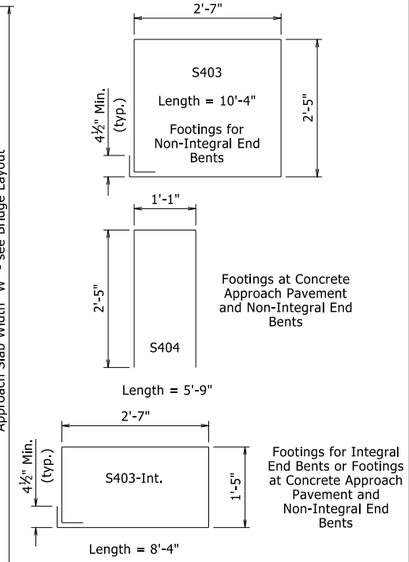
¼" = 1'-0"

LONGITUDINAL CONSTRUCTION JOINT

½" = 1'-0"

PLAN - APPROACH SLAB AT SKEWED END BENT

Non-Integral End Bent Shown
¼" = 1'-0"



BENDING DIAGRAMS

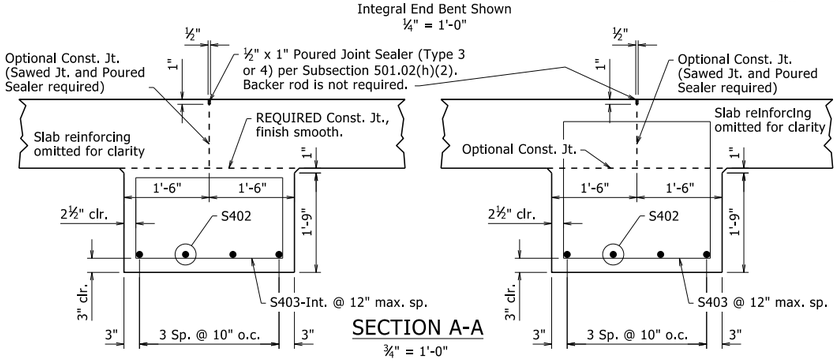
No Scale
Dimensions are out to out of bar
2" PIn Diameter (typ.)

BAR LIST - PER APPROACH SLAB

	Square End Bent		Skewed End Bent	
Mark	No. Req'd.	Length	No. Req'd.	Length
S401	24	"W" - 0.33'	24	("W" - 0.33') / cos (Skew°)
S402	8	"W" - 0.33'	8	"W"/cos(Skew°) + 3.0'×tan(Skew°) - 0.33'
S403	①	②	①	②
S403-Int.	①	②	①	②
S404	①	②	①	②
S405	48	1'-6"	48	1'-6"
S501	36	"W" - 0.33'	36	("W" - 0.33') / cos (Skew°)
S502	①	34'-8"	①	34'-8"
S701	①	34'-8"	①	34'-8"

All bar lengths are in feet.

① Varies with Approach Slab Type, Width and/or Skew.
② See "BENDING DIAGRAMS"

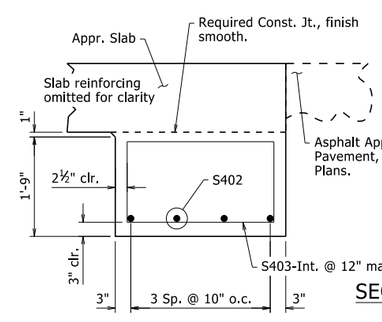


SECTION A-A

¾" = 1'-0"

INTERIOR FOOTING FOR INTEGRAL END BENT

INTERIOR FOOTING FOR NON-INTEGRAL END BENT

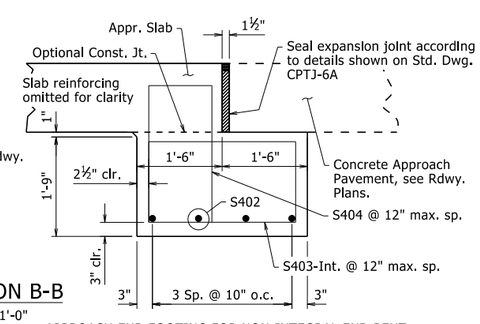


SECTION B-B

¾" = 1'-0"

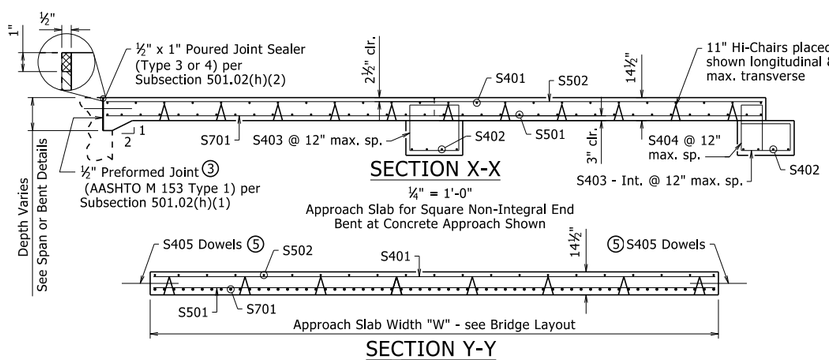
APPROACH END FOOTING FOR INTEGRAL END BENT

Asphalt Approach Shown. For Concrete Approach, adjust footing location by 1'-6" to add paving notch and include expansion joint.



APPROACH END FOOTING FOR NON-INTEGRAL END BENT

Concrete Approach Shown. For Asphalt Approach, adjust footing location by 1'-6", omit expansion joint, and replace bars S403-Int. & S404 with S403.



SECTION X-X

¼" = 1'-0"

Approach Slab for Square Non-Integral End Bent at Concrete Approach Shown

SECTION Y-Y

¼" = 1'-0"

GENERAL NOTES

All concrete shall be Class S(AE) with a minimum 28 day compressive strength f'c = 4,000 psi and shall be poured in the dry.

All reinforcing steel shall be Grade 60 (yield strength = 60,000 psi) conforming to AASHTO M 31 or M 322, Type A, with mill test reports.

The surface finish for Approach Slabs shall match that used on the bridge deck.

All longitudinal lines within the limits of horizontal curves shall be on curves concentric to C.L. Bridge. Adjustment to longitudinal bar lengths may be required. Transverse reinforcing shall be placed on radial lines to C.L. Bridge.

See Plans for actual Approach Slab Width, "W", end bent or span details, and approach pavement. Units of "W" are in Feet.

Approach Slabs will be measured and paid for in accordance with Section 504.

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

For Table of Quantities, see "SCHEDULE OF BRIDGE QUANTITIES".

③ Eliminate Type 1 Preformed Joint when bridge details show reinforcing dowels across these joints. Poured joint sealer is required, however, backer rod shall be eliminated.

④ When construction joint is eliminated, place 1" Sawed Joint with ½" x 1" Poured Joint Sealer (Type 3 or 4) per Subsection 501.02(h)(2). Backer rod is not required.

⑤ Eliminate dowels when approach slab is adjacent to curb and gutter, or as directed by the Engineer.

MINIMUM BAR LAP LENGTH

#4	1'-8"
#5	2'-0"
#7	2'-10"

The document was originally issued and sealed by Charles R. Ellis, PE No. 9235, on September 7, 2023. This copy is not a signed and sealed document.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS

BRIDGE ENGINEER

STANDARD DETAILS FOR
TYPE F APPROACH SLAB

ARKANSAS STATE HIGHWAY COMMISSION

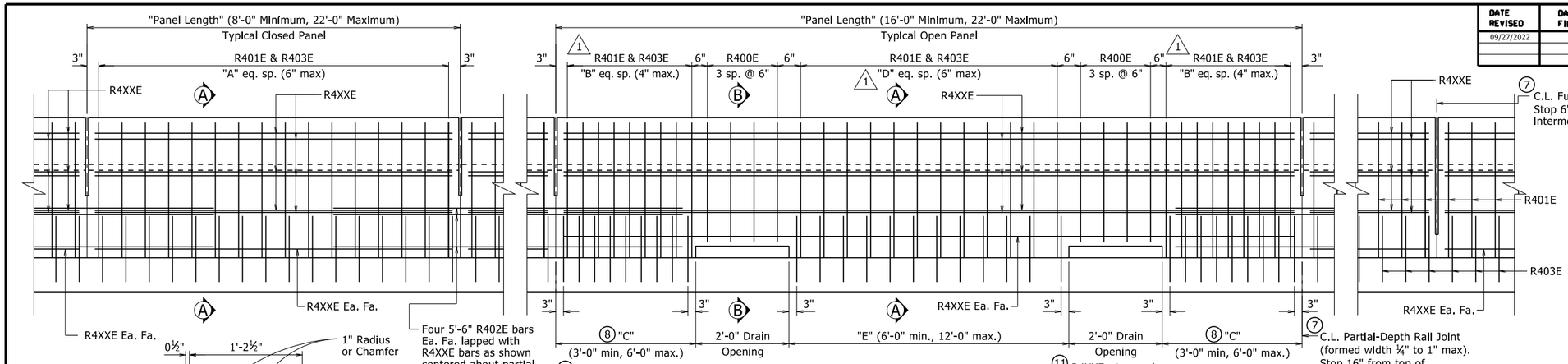
LITTLE ROCK, ARK.

DRAWN BY:	CGP	DATE:	05/12/2023	FILENAME:	b55040f.dgn
CHECKED BY:	JYP	DATE:	05/15/2023	SCALE:	AS NOTED
DESIGNED BY:	STD.	DATE:	-		

DRAWING NO. 55040F1

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
09/27/2022				6	ARK.			
				JOB NO.				

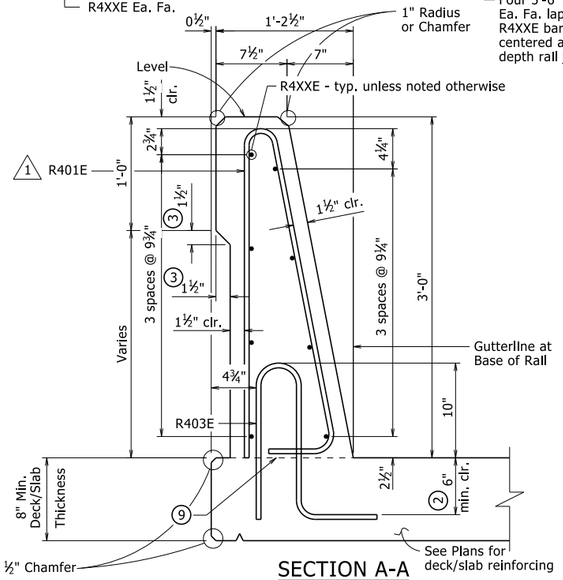
1 TYPE SSTR36 - 55070



1 ELEVATION - SINGLE SLOPE TRAFFIC RAIL

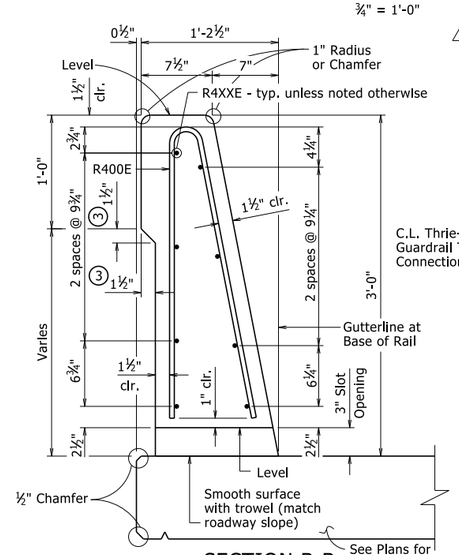
¾" = 1'-0"

1. All measurements shown are along gutterline at base of rail.
2. Minimum embedment into deck/slab.
3. Eliminate recess when formliner with architectural finish is used. See Plans for additional information.
4. C.L. 1" ø formed holes for ⅞" ø bolts. See Standard Drawings GR-10 and GR-12 for additional information.
5. Only applicable for bridges with rail cast directly on bridge deck/slab surface. Increase height as necessary for sidewalks, see Plans for additional information.
6. Field bend front leg of R401E bar as required to maintain minimum 1½" front face clearance within limits of taper.
7. When optional slip forming is used: to control cracking, all rail joints must be V-grooved around the perimeter of the rail prior to concrete set and sawing. Depth of V-groove shall be ½". Sawing of the joints shall be done as soon as practical to a width of ¼", and must be controlled so it will follow the V-Groove.
8. End posts shall be the same length within a panel.



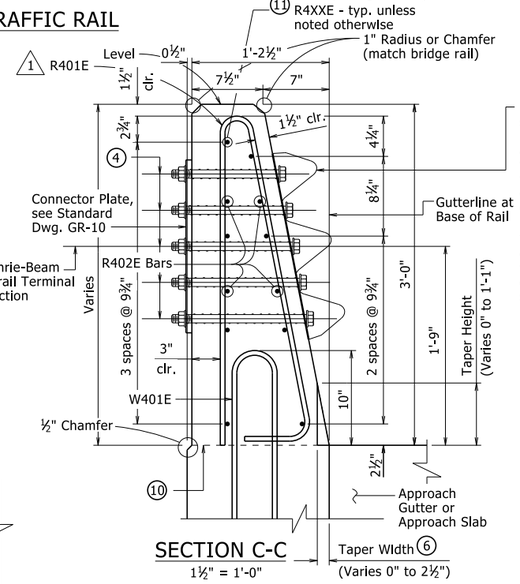
SECTION A-A

1½" = 1'-0"



SECTION B-B

1½" = 1'-0"

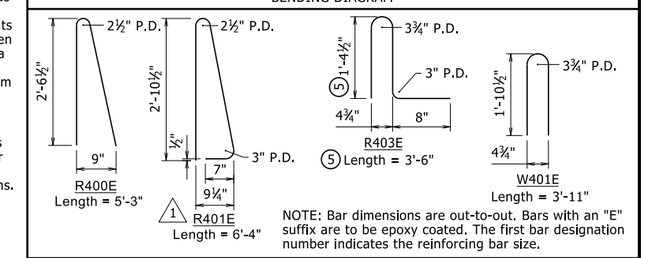


Bolt Special End Shoe to face of rail as shown. Tapered washers are not required between the head of the bolts and the sloped face of the rail. Tighten the five terminal connection bolts in a well distributed pattern to prevent damage or distortion of the thrie-beam connection. Cut bolts off after installation so as to extend no more than ¾" beyond nut. Paint ends of cut-off bolts with zinc-rich paint. This work and material will not be paid for directly but shall be considered subsidiary to associated contract items.

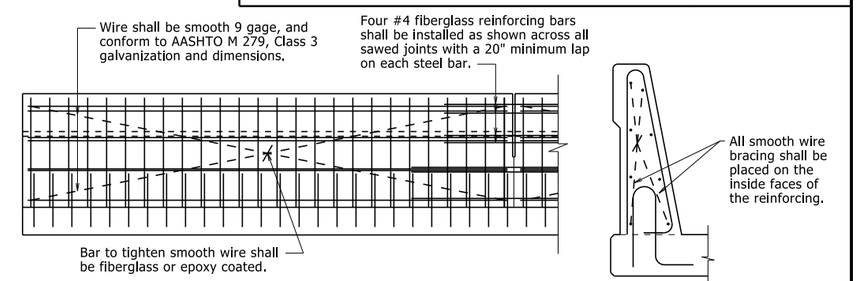
SECTION C-C

1½" = 1'-0"

BENDING DIAGRAM



NOTE: Bar dimensions are out-to-out. Bars with an "E" suffix are to be epoxy coated. The first bar designation number indicates the reinforcing bar size.



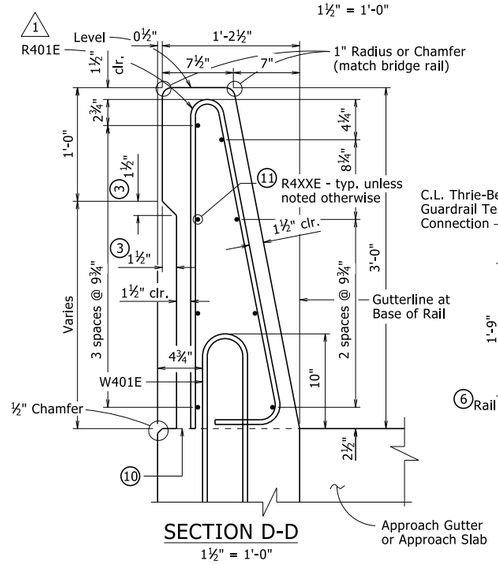
The extruded rail shall conform to the horizontal and vertical lines shown on the plans or as directed by the Engineer and shall present a smooth, uniform appearance and texture. Unless otherwise noted, exposed surfaces may be given a light brush finish or a Class 3, Textured Coating Finish in place of Class 2, Rubbed Finish.

All panels shall be braced as required to prevent racking.

Slip forming will not be allowed on bridges where formliner with architectural treatment is used unless approval from the Engineer is obtained.

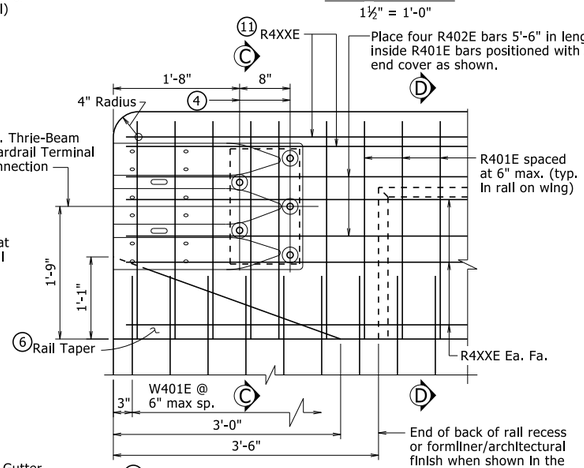
DETAILS OF OPTIONAL SLIP FORMING OF BRIDGE TRAFFIC RAIL

No Scale



SECTION D-D

1½" = 1'-0"



1 RAIL TERMINUS DETAILS

1" = 1'-0"

9 Required Construction Joint. Level where water flows away from rail, match roadway slope where water flows toward rail.

10 Top of Abutment Wing & Required Construction Joint (match bridge deck/slab construction joint slope). See Plans for Wing reinforcing.

11 These bars will not be included in the "Table of Variables". See Plans for details.

TABLE OF VARIABLES

Closed Rail Panels			Open Rail Panels					
Panel Length	A	R4XXE	Panel Length	B	C	D	E	R4XXE

See Plans for table with values.

GENERAL NOTES

This rail has been successfully evaluated by full-scale crash test to meet MASH TL-4 criteria.

Details shown are general for bridges without sidewalks. See Plans for additional details and requirements specific to bridges with sidewalks.

For Table of Variables, Rail Bar List, locations of Full and Partial Depth Rail Joints, and Wing & Rail Bar Lists, see Plans.

For location of drain openings, see Plans. Drain openings shown are not applicable for bridges with sidewalks. Drain openings will not be allowed over Railroad Right of Way, travelled roadways, and protected waterways.

Rail Terminus details, including Rail Taper, are not applicable for bridges with sidewalks or when bridge railing is continuous with roadway railing.

Scales shown are for 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

1 Modified bending diagram and spacing for R401E bar.

By: CGP, Checked by: CMW 09/27/2022

This document was originally issued and sealed by Charles R. Ellis, PE No. 9235, on November 5, 2020. This copy is not a signed and sealed document.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS

BRIDGE ENGINEER

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSTR36

ARKANSAS STATE HIGHWAY COMMISSION

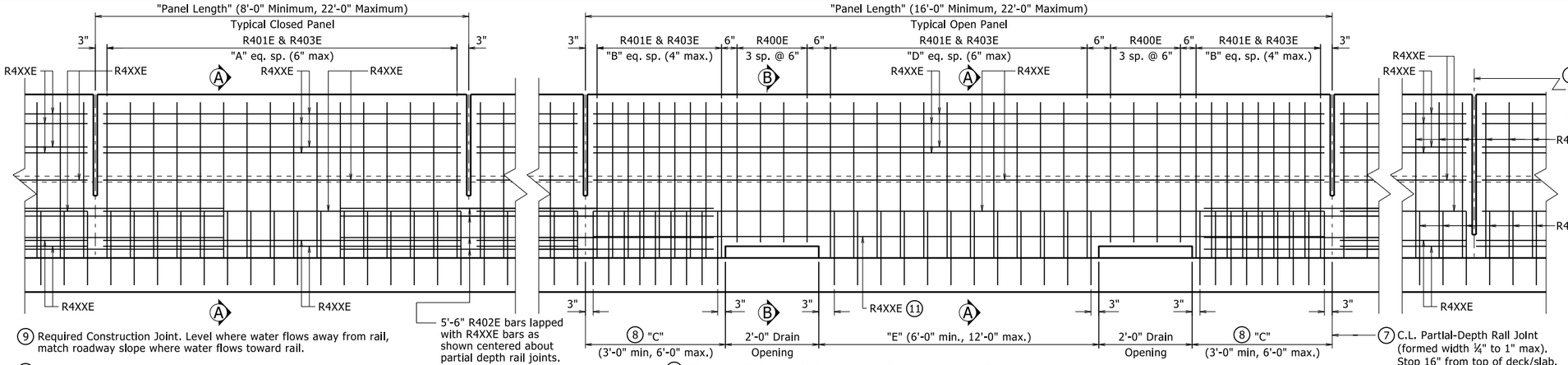
LITTLE ROCK, ARK.

DRAWN BY:	KWY	DATE:	11/5/2020	FILENAME:	b55070.dgn
CHECKED BY:	LJB	DATE:	11/5/2020	SCALE:	As Noted
DESIGNED BY:	STD.	DATE:	-----		

DRAWING NO. 55070

PRINT DATE: 10/6/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		TYPE SSTR42 - 55071				



1 ELEVATION - SINGLE SLOPE TRAFFIC RAIL

(9) Required Construction Joint. Level where water flows away from rail, match roadway slope where water flows toward rail.

(10) Top of Abutment Wing & Required Construction Joint (match bridge deck/slab construction joint slope). See Plans for Wing reinforcing.

(11) These bars shall be raised up over drain opening as shown in "SECTION B-B".

(7) C.L. Full-Depth Rail Joint (formed width ¼" to 1" max). Stop 6" from top of deck/slab. Place at all intermediate bent locations where rail is continuous.

(7) C.L. Partial-Depth Rail Joint (formed width ¼" to 1" max). Stop 16" from top of deck/slab. Place at all remaining locations other than at intermediate bents.

(1) All measurements shown are along gutterline at base of rail.

(2) Minimum embedment into deck/slab.

(3) Eliminate recess when formliner with architectural finish is used. See Plans for additional information.

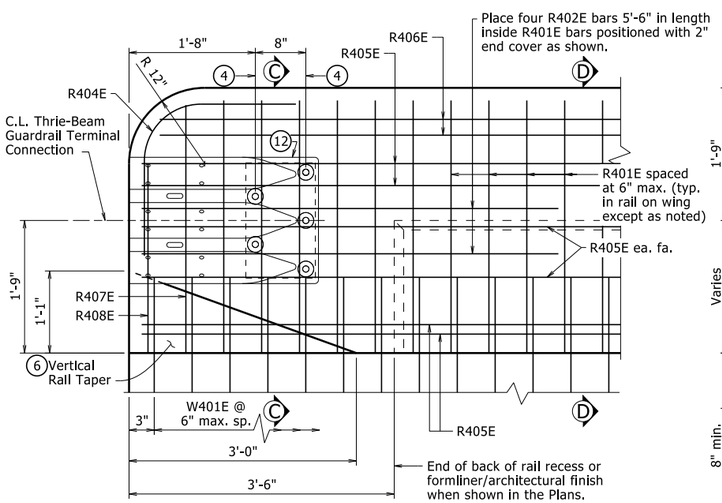
(4) C.L. 1" ø formed holes for ⅞" ø bolts. See Standard Drawings GR-10 and GR-12 for additional information.

(5) These bars will not be included in the "TABLE OF VARIABLES", see plans for additional information.

(6) Field bend front leg of R401E bar as required to maintain minimum 1½" front face clearance within limits of taper.

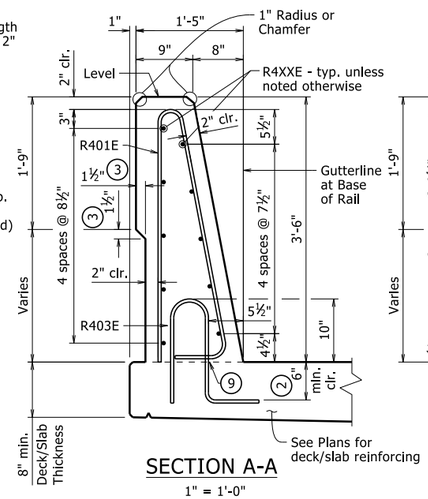
(7) When optional slip forming is used: to control cracking, all rail joints must be V-grooved around the perimeter of the rail prior to concrete set and sawing. Depth of V-groove shall be ½". Sawing of the joints shall be done as soon as practical to a width of ¼", and must be controlled so it will follow the V-Groove.

(8) End posts shall be the same length within a panel.



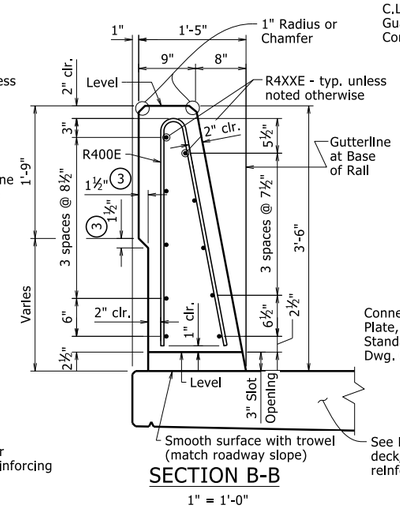
1 5 RAIL TERMINUS DETAIL

1" = 1'-0"



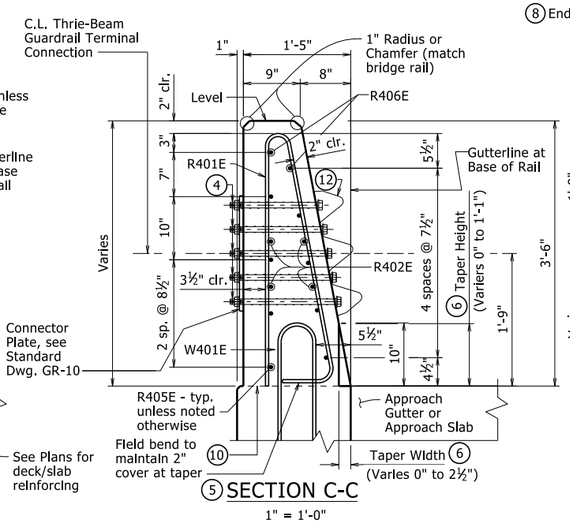
SECTION A-A

1" = 1'-0"



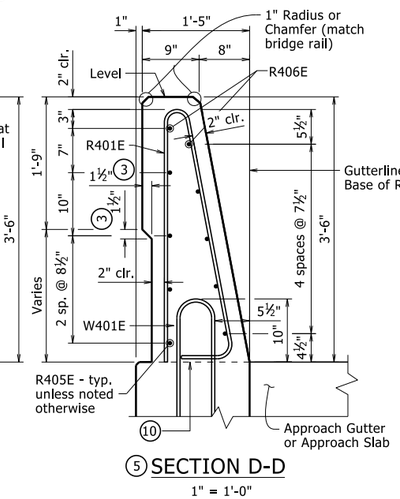
SECTION B-B

1" = 1'-0"



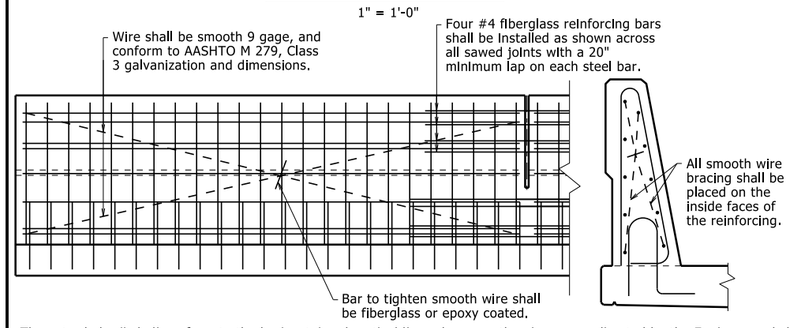
5 SECTION C-C

1" = 1'-0"



5 SECTION D-D

1" = 1'-0"



The extruded rail shall conform to the horizontal and vertical lines shown on the plans or as directed by the Engineer and shall present a smooth, uniform appearance and texture. Unless otherwise noted, exposed surfaces may be given a light brush finish or a Class 3, Textured Coating Finish in place of Class 2, Rubbed Finish.

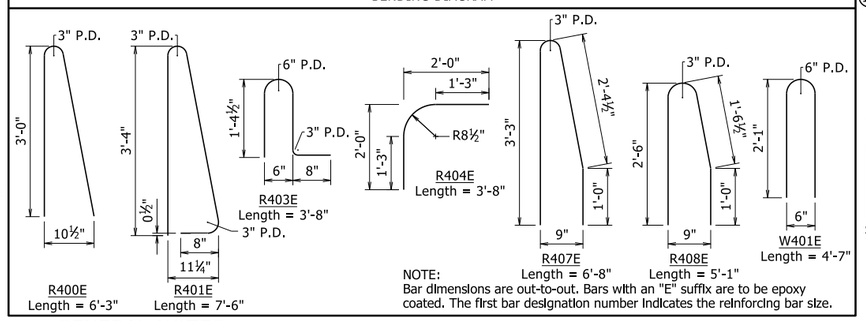
All panels shall be braced as required to prevent racking.

Slip forming will not be allowed on bridges where formliner with architectural treatment is used unless approval from the Engineer is obtained.

DETAILS OF OPTIONAL SLIP FORMING OF BRIDGE TRAFFIC RAIL

No Scale

BENDING DIAGRAM



NOTE: Bar dimensions are out-to-out. Bars with an "E" suffix are to be epoxy coated. The first bar designation number indicates the reinforcing bar size.

(12) Bolt Special End Shoe to face of rail as shown. Tapered washers are not required between the head of the bolts and the sloped face of the rail. Tighten the five terminal connection bolts in a well distributed pattern to prevent damage or distortion of the thrie-beam connection. Cut bolts off after installation so as to extend no more than ¾" beyond nut. Paint ends of cut-off bolts with zinc-rich paint. This work and material will not be paid for directly but shall be considered subsidiary to associated contract items.

TABLE OF VARIABLES

Closed Rail Panels			Open Rail Panels					
Panel Length	A	R4XXE	Panel Length	B	C	D	E	R4XXE

See Plans for table with values.

This document was originally issued and sealed by Charles R. Ellis, PE No. 9235, on July 06, 2022. This copy is not a signed and sealed document.

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

GENERAL NOTES

This rail has been evaluated and accepted to be of equal strength to railings with similar geometry, which have been evaluated by full-scale crash test to meet MASH TL-4 criteria.

For Table of Variables, Rail Bar List, locations of Full and Partial Depth Rail Joints, and Wing & Rail Bar Lists, see Plans.

For location of drain openings, see Plans. Drain openings will not be allowed over Railroad Right of Way, travelled roadways, and protected waterways.

Rail Terminus details, including Rail Taper, are not applicable when bridge railing is continuous with roadway railing.

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS

BRIDGE ENGINEER

STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSTR42

ARKANSAS STATE HIGHWAY COMMISSION

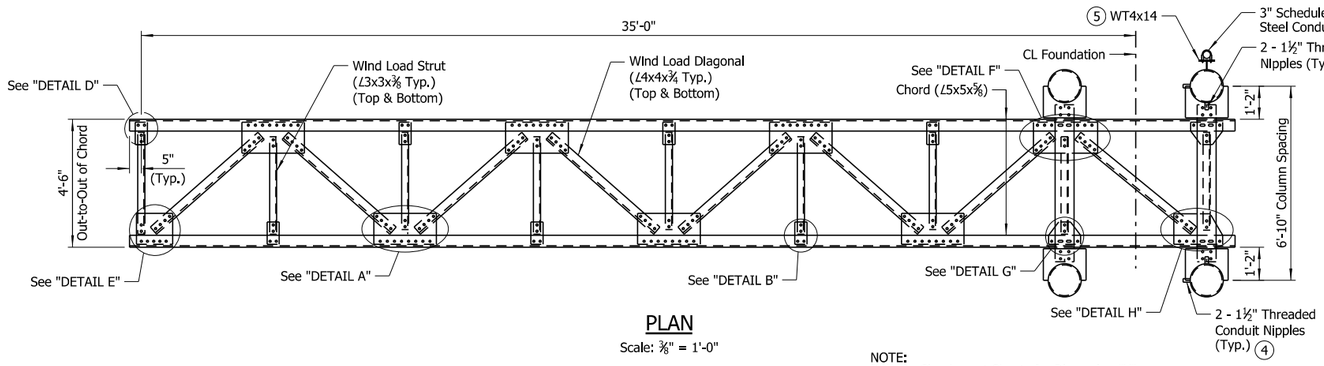
LITTLE ROCK, ARK.

DRAWN BY:	CGP	DATE:	06/30/2022	FILENAME:	b55071.dgn
CHECKED BY:	CMW	DATE:	07/01/2022	SCALE:	AS NOTED
DESIGNED BY:	STD.	DATE:	-		

DRAWING NO. 55071

PRINT DATE: 7/6/2022

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		CANTILEVER SIGN STR. (35') - 55090A				



PLAN

Scale: ⅜" = 1'-0"

NOTE:
Refer to Sign Layout Sheets for Dimension "X" and Foundation Type required for each structure.

NOTE:
WT4x14 member at top of column not shown in "ELEVATION - FOUNDATION A1" for clarity.

(1) The Contractor shall make field measurements to determine the following:

1) To verify that dimension "X" is sufficient to center the sign over the intended lane while maintaining minimum horizontal clearances.

2) To determine the column height "H" required to maintain the minimum vertical clearance with the centerline of the sign located at the CL of the truss. If the structure height "H" exceeds 30'-0", contact the Engineer.

These verifications and measurements are required prior to submittal of the shop drawings. The column height "H" shall be shown on the shop drawings with a note stating that the Contractor has made the required field measurements.

(2) Foundation A1 allowed only when foundation is outside clear zone or is protected by guardrail or barrier. For alternate drilled shaft foundation (Foundation A2), see Std. Dwg. 55090F.

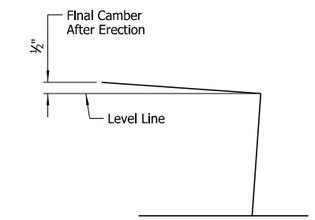
(3) 2" Non-Metallic Conduit (Schedule 80) with 16" Min. Bend Radius (2 Conduits per Outside Column). If cabling in the conduit is not required per Electrical and/or ITS plans, the end of conduit in the ground shall be capped for future use with a manufactured water-tight cap.

(4) Threaded Conduit Nipples shall be fitted with standard plugs until conduit is installed.

(5) See "SECTION U-U" on Std. Dwg. 55090C. WT4x14 always required. 3" Conduit and Clamping U-Bolts only required when necessary to support ITS equipment or as directed by the Engineer. See ITS Plans.

NOTES:
For "VIEW B-B" and "DETAIL J" thru "DETAIL M", see Std. Dwg. 55090B.

For "DETAIL A" thru "DETAIL H", see Std. Dwg. 55090C.

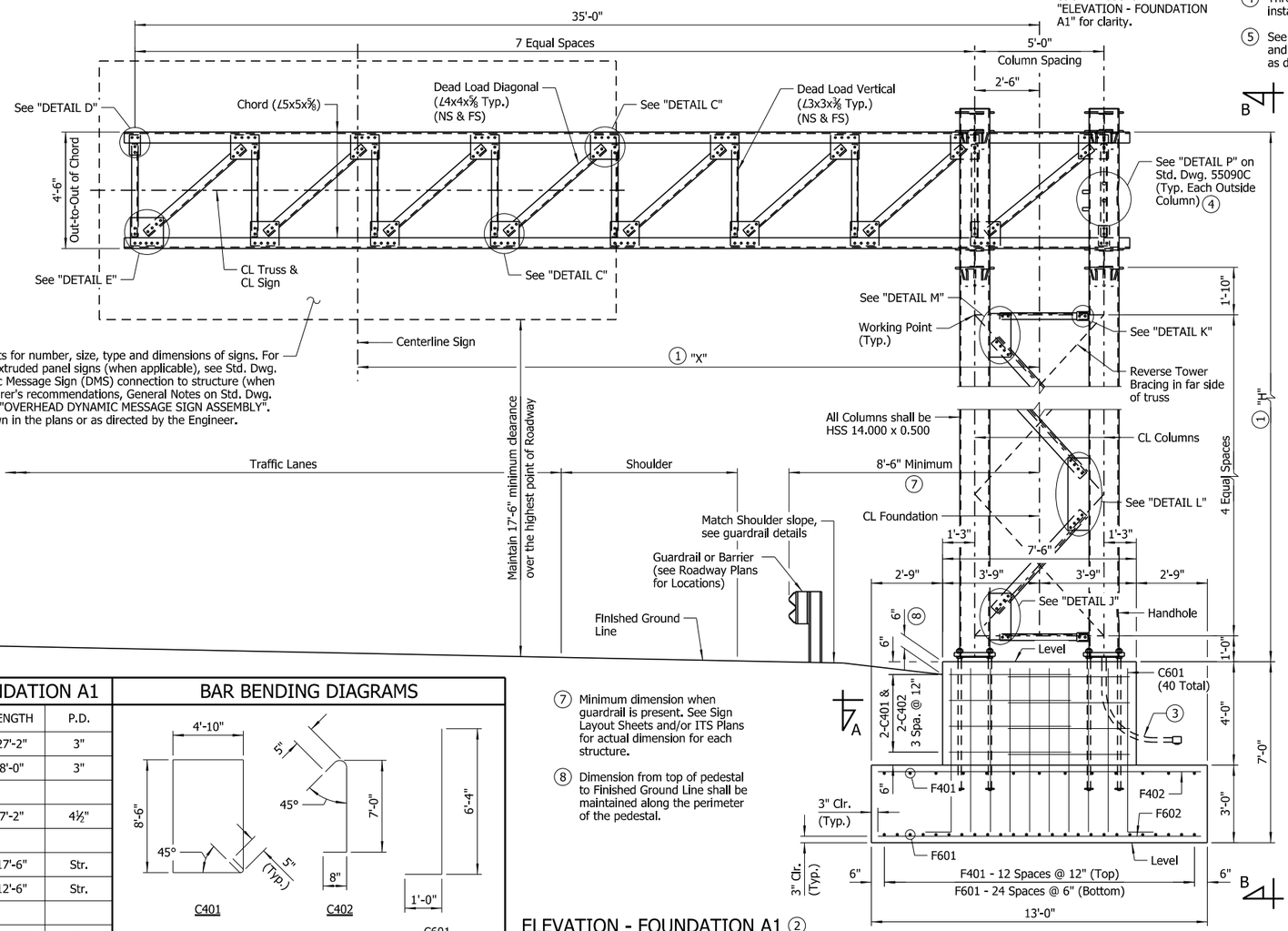


TRUSS CAMBER DIAGRAM

No Scale

LEGEND

NS = Near Side
FS = Far Side



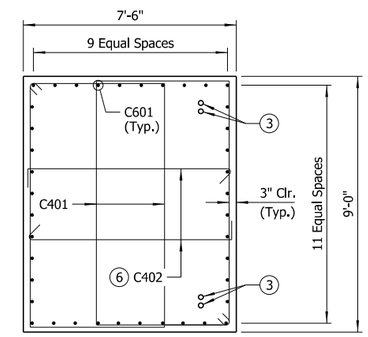
See sign details and plan sheets for number, size, type and dimensions of signs. For details of hanger spacing for extruded panel signs (when applicable), see Std. Dwg. 55090E. For details of Dynamic Message Sign (DMS) connection to structure (when applicable), refer to Manufacturer's recommendations, General Notes on Std. Dwg. 55090E, and Special Provision "OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY". Signs are to be placed as shown in the plans or as directed by the Engineer.

(7) Minimum dimension when guardrail is present. See Sign Layout Sheets and/or ITS Plans for actual dimension for each structure.

(8) Dimension from top of pedestal to Finished Ground Line shall be maintained along the perimeter of the pedestal.

ELEVATION - FOUNDATION A1 (2)

No Scale



SECTION A-A

Scale: ⅜" = 1'-0"

(6) Alternate C402 ties end for end at each layer of reinforcing.

BAR LIST - FOUNDATION A1

MARK	NO. REQ'D	LENGTH	P.D.
C401	8	27'-2"	3"
C402	8	8'-0"	3"
C601	40	7'-2"	4½"
F401	13	17'-6"	Str.
F402	18	12'-6"	Str.
F601	25	17'-6"	Str.
F602	35	12'-6"	Str.

BAR BENDING DIAGRAMS

NOTE:
Dimensions of bars are out-to-out.

APPROXIMATE QUANTITIES FOR FOUNDATION A1 (FOR INFORMATION ONLY)

CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
36.00	2,240	81

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 1 OF 6
STANDARD DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

This document was originally issued by ARDOT Bridge Division. A sealed and signed original is held on file. This copy is not a signed and sealed document.

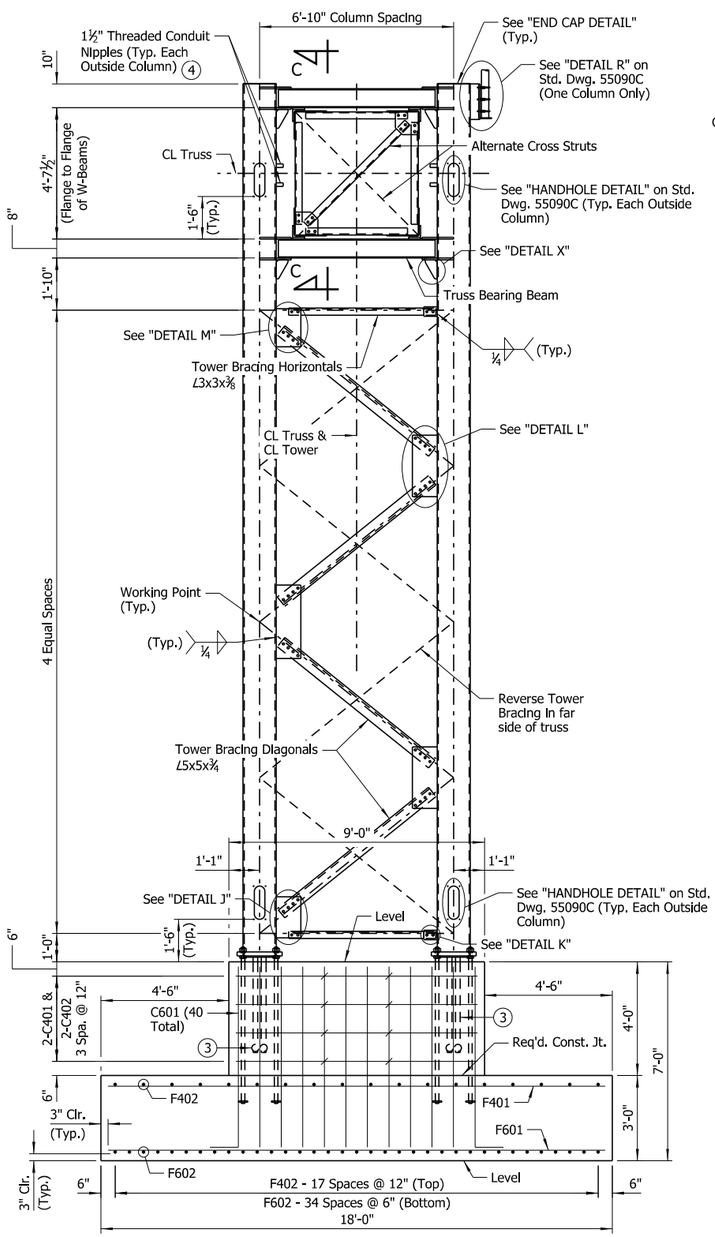
DRAWN BY:	CSW	DATE:	DEC. 2022	FILENAME:	b55090a.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55090A

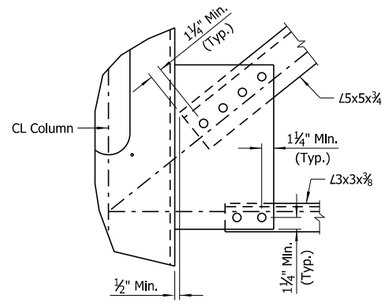
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		CANTILEVER SIGN STR. (35') - 55090B				



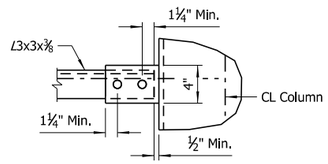
VIEW B-B

(Foundation A1)
No Scale



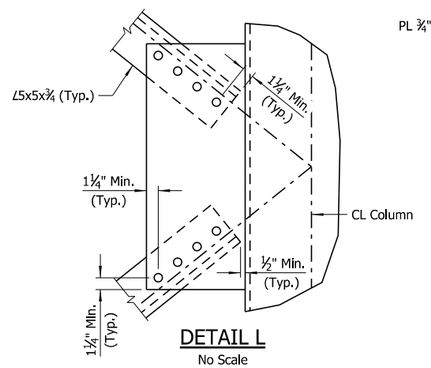
DETAIL J

No Scale



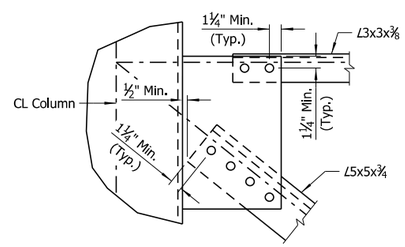
DETAIL K

No Scale



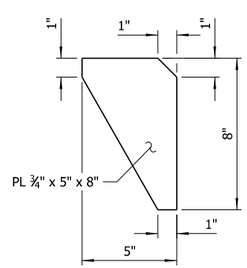
DETAIL L

No Scale



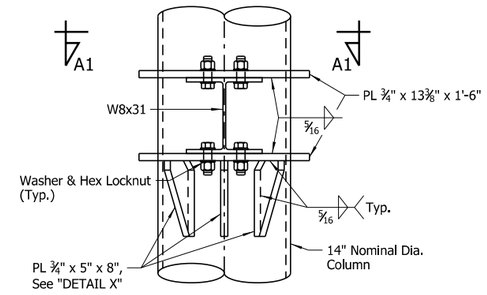
DETAIL M

No Scale



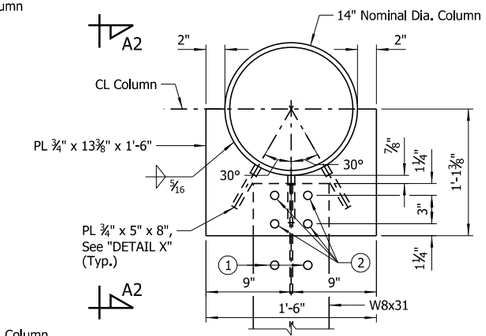
DETAIL X

Scale: 3" = 1'-0"



DETAIL - TRUSS BEARING SUPPORT

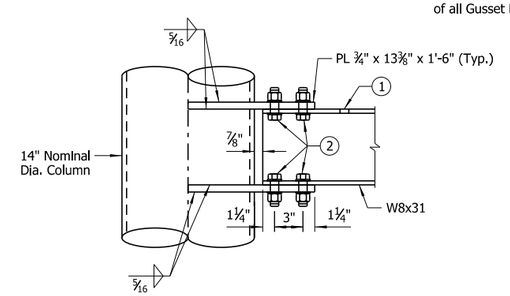
Scale: 1½" = 1'-0"



VIEW A1-A1

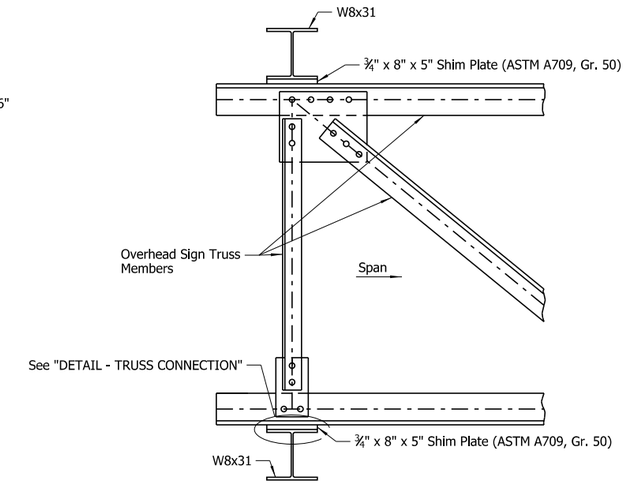
Scale: 1½" = 1'-0"

NOTE:
Unless noted otherwsie, thickness of all Gusset Plates shall be ⅜".



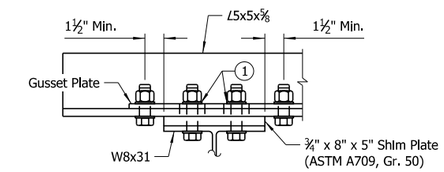
VIEW A2-A2

Scale: 1½" = 1'-0"
(¾" x 5" x 8" Plate not shown for clarity)



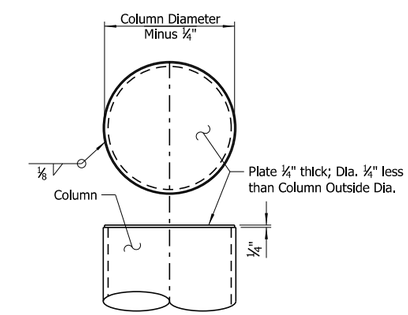
VIEW C-C

No Scale



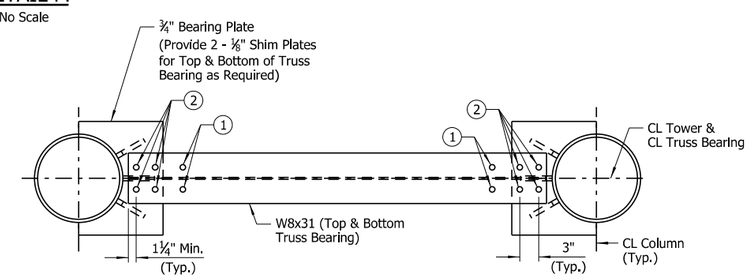
DETAIL - TRUSS CONNECTION

No Scale



END CAP DETAIL

Scale: 1½" = 1'-0"



PLAN AT TRUSS BEARING

Scale: 1" = 1'-0"

1. Bolts shall be ⅞"ø. Provide 15/16" x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Provide 15/16"ø holes in ¾" shim plate and top or bottom beam flanges as required.
2. Bolts shall be ⅞"ø. Provide 15/16"ø holes at top and bottom beam flanges and connection plates.
3. 2" Non-Metallic Conduit (Schedule 80) (2 Conduits per Outside Column). An insulated bushing shall be installed at the top end of each conduit.
4. Threaded Conduit Nipples shall be fitted with standard plugs until conduit is installed.

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 2 OF 6
STANDARD DETAILS OF 35' STEEL
CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY:	CSW	DATE:	DEC. 2022	FILENAME:	b55090b.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

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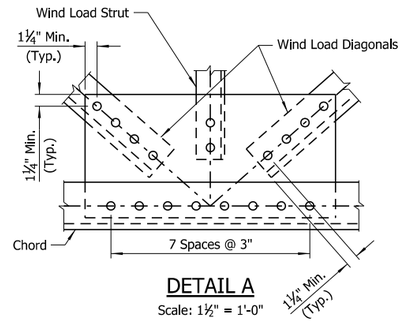
Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

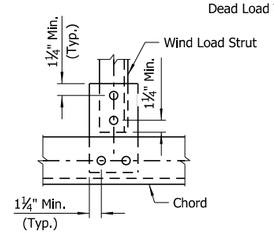
DRAWING NO. 55090B

6/17/2026

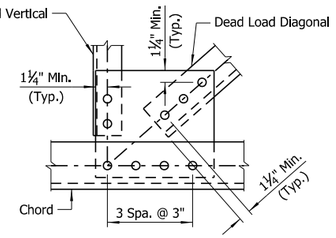
DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		CANTILEVER SIGN STR. (35') - 55090C				



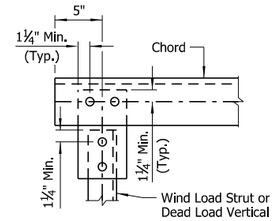
DETAIL A
Scale: 1½" = 1'-0"



DETAIL B
Scale: 1½" = 1'-0"

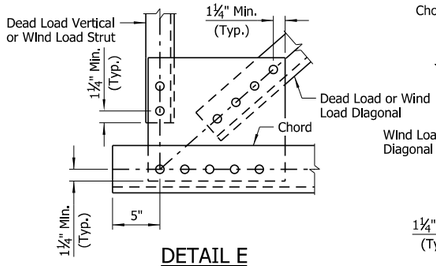


DETAIL C
Scale: 1½" = 1'-0"

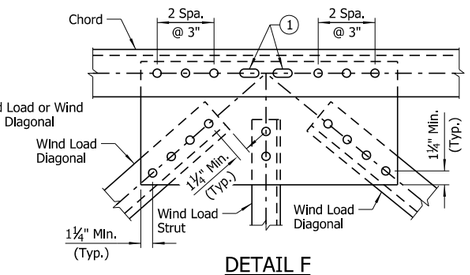


DETAIL D
Scale: 1½" = 1'-0"

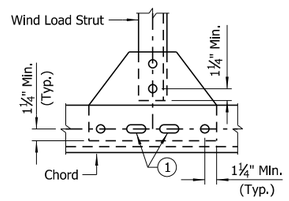
NOTE:
Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".



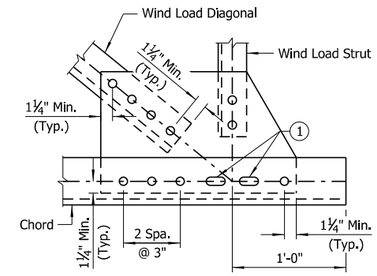
DETAIL E
Scale: 1½" = 1'-0"



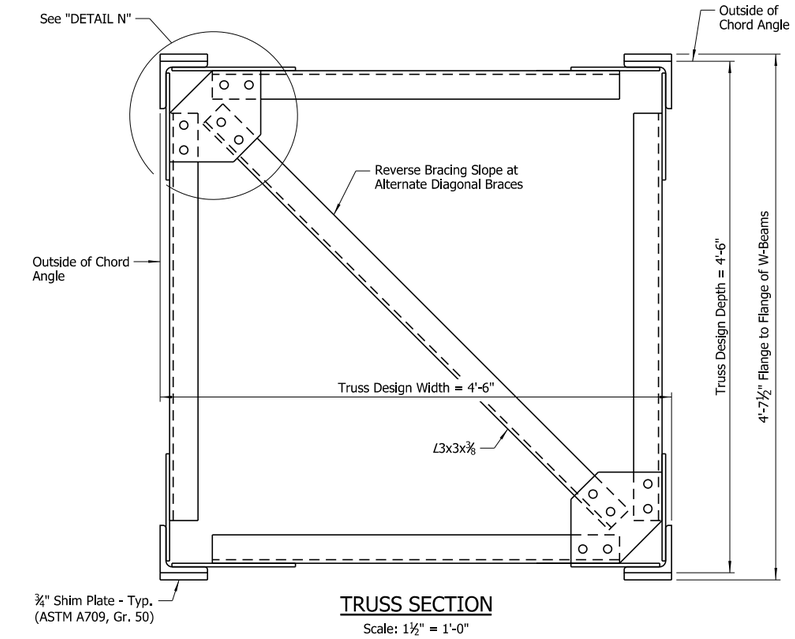
DETAIL F
Scale: 1½" = 1'-0"



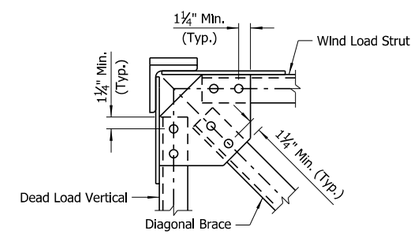
DETAIL G
Scale: 1½" = 1'-0"



DETAIL H
Scale: 1½" = 1'-0"

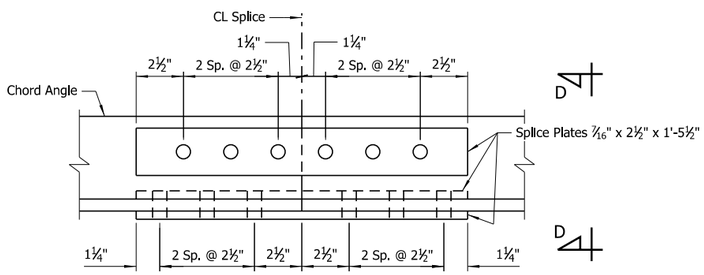


TRUSS SECTION
Scale: 1½" = 1'-0"



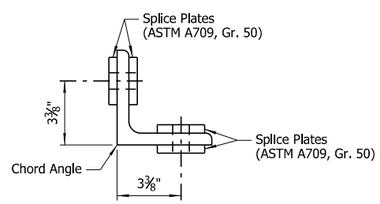
DETAIL N
Scale: 1½" = 1'-0"

1. Bolts shall be ⅞"ø. Provide 15/16" x 2" slotted holes in gusset plate and chord angle. Clearance between end of slot and adjacent bolt hole shall be no less than 1½". Use plate washer on gusset plate side.
2. Bolts shall be ¾"ø and open holes shall be 13/16"ø.
3. See details on Std. Dwgs. 55090A & 55090B for location and orientation of handholes and threaded conduit nipples.
4. Threaded conduit nipples shall be fitted with standard plugs until conduit is installed.
5. When required per plans to support ITS equipment, or as directed by the Engineer, Clamping U-Bolt with Rounded Mounting Plate Assembly product shall be included in shop drawings for approval. Assembly shall be galvanized and shall meet the requirements of ASTM A36 at a minimum. Install per Manufacturer's instructions.
6. WT4x14 with ¼" Temporary Support Plate always required. 3" Conduit and Clamping U-Bolts only required when necessary to support ITS equipment or as directed by the Engineer. See ITS Plans.

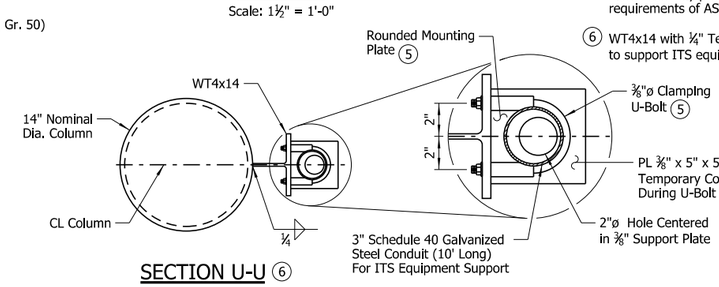


② CHORD SPLICE
Scale: 3 = 1'-0"

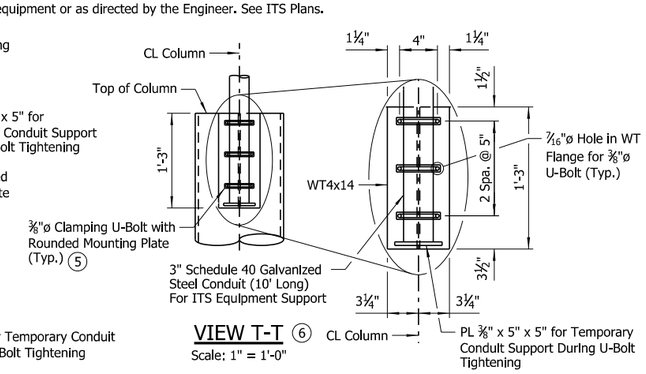
NOTE:
Chord angles may be spliced in convenient lengths for galvanizing and sign placement.



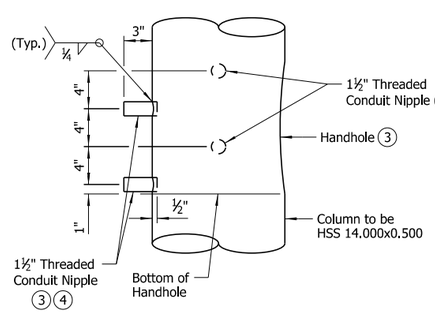
VIEW D-D
Scale: 3 = 1'-0"



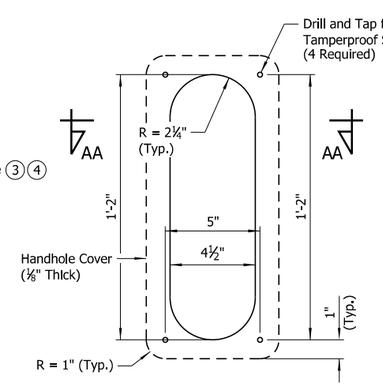
SECTION U-U 6
Scale: 1½" = 1'-0"



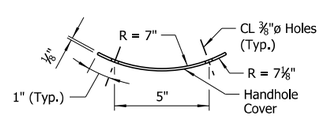
VIEW T-T 6
Scale: 1" = 1'-0"



DETAIL P
Scale: 1½" = 1'-0"



HANDHOLE DETAIL 3
Scale: 3" = 1'-0"

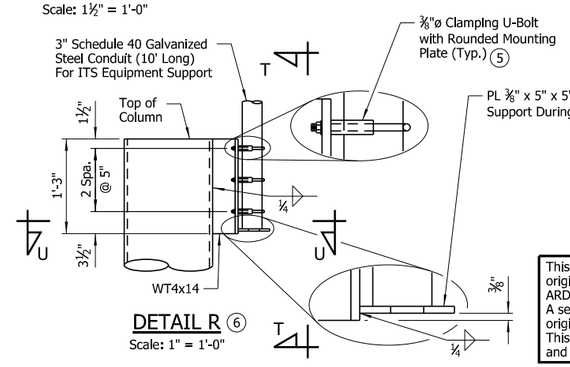


SECTION AA-AA
Scale: 3" = 1'-0"

NOTE:
Provide handhole covers with chain, waterproof grommet, and tamperproof screws.

Handhole covers shall be galvanized and meet the requirements of ASTM A36 at a minimum.

Tamperproof screws shall be galvanized and meet the requirements of ANSI/ASME B18.6.3.



DETAIL R 6
Scale: 1" = 1'-0"

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THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 3 OF 6
STANDARD DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY:	CSW	DATE:	DEC. 2022	FILENAME:	b55090c.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

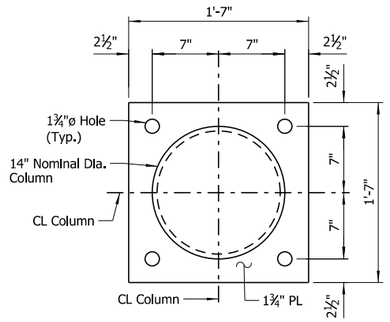
DRAWING NO. 55090C

6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		CANTILEVER SIGN STR. (35') - 55090D				

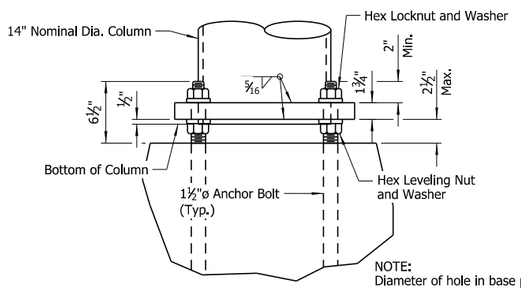
(1) All "Lindapter" connectors or approved equal shall be installed according to Manufacturer's recommendations. All connectors, bolts, nuts and washers shall be galvanized.

NOTE:
Install all support connectors clear of the gusset plates and splice locations.



PLAN - COLUMN BASE

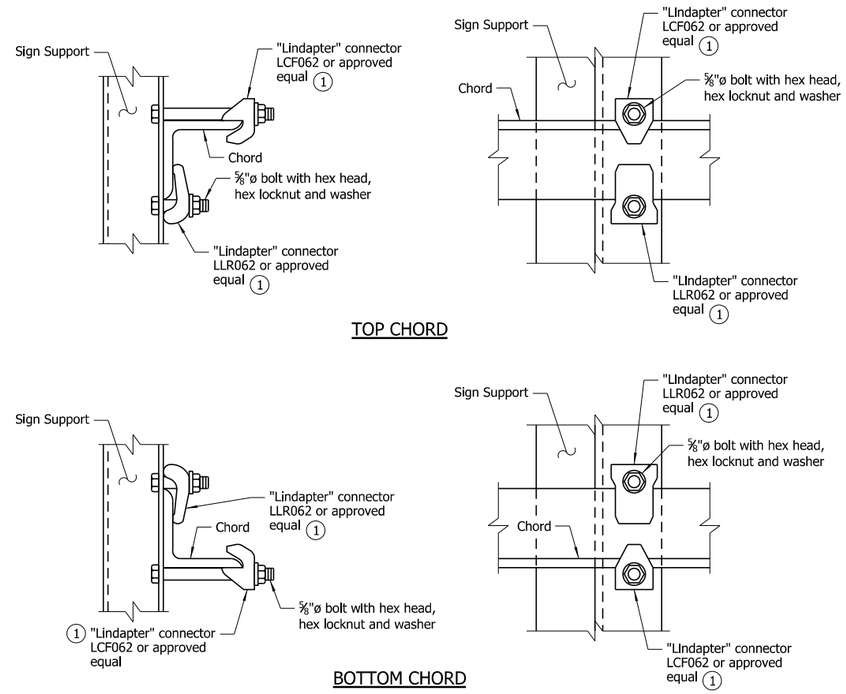
Scale: 1½" = 1'-0"



NOTE:
Diameter of hole in base plate to be ⅛" larger than column diameter.

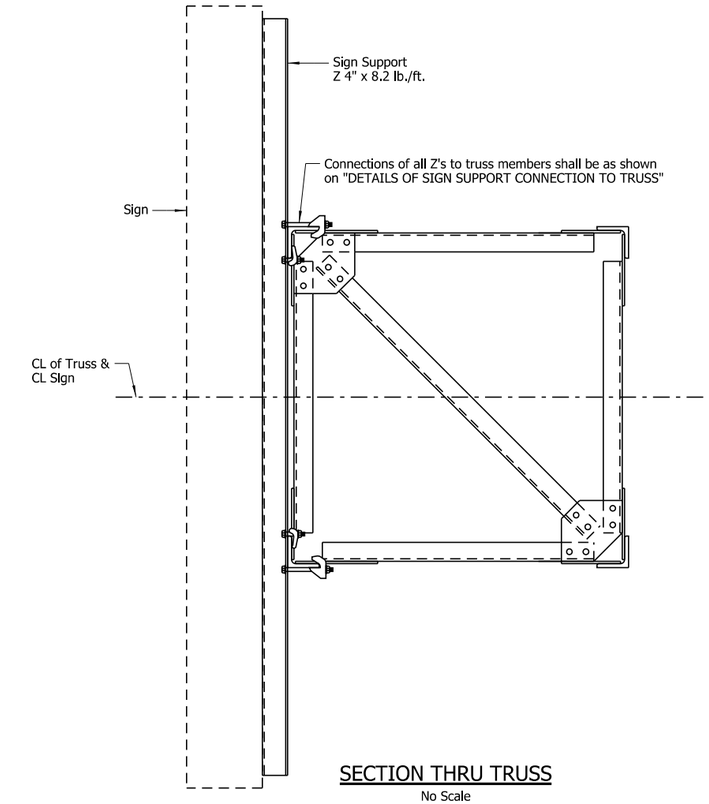
ELEVATION - COLUMN BASE

Scale: 1½" = 1'-0"



DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS

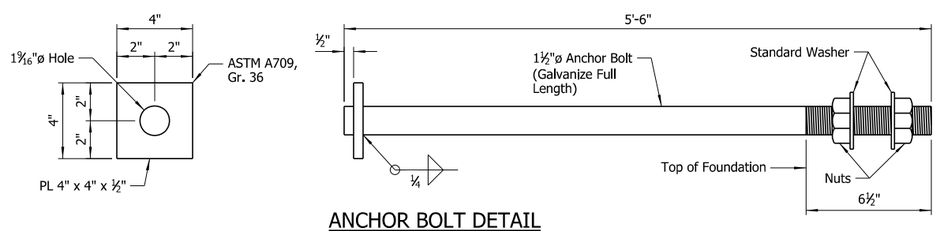
No Scale



SECTION THRU TRUSS

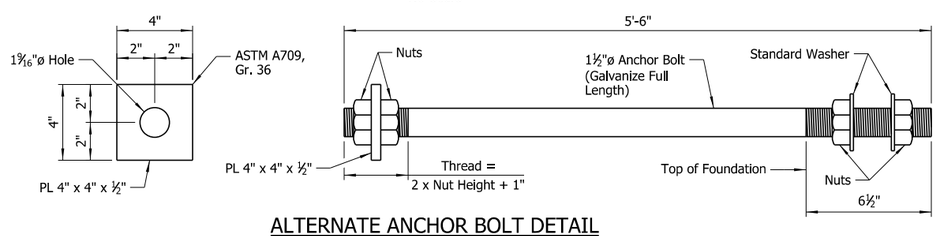
No Scale

NOTE:
Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".



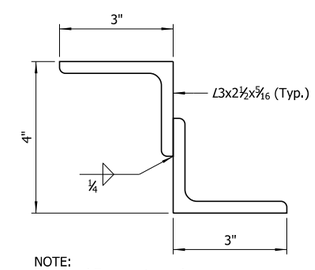
ANCHOR BOLT DETAIL

No Scale



ALTERNATE ANCHOR BOLT DETAIL

No Scale



NOTE:
Structural Z support may be fabricated from angles as shown.

DETAILS OF ALTERNATE Z SUPPORT

No Scale

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 4 OF 6
STANDARD DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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DRAWN BY:	CSW	DATE:	DEC. 2022	FILENAME:	b55090d.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55090D

6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		CANTILEVER SIGN STR. (35') - 55090E				

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014 Edition, with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, First Edition, 2015 with current interim revisions.

Basic Wind Speed = 120 mph
Fatigue Category: I

This structure is approved for 300 square feet of sign area and a maximum sign weight (total of all signs and hangers) of 3600 lbs. Use of additional sign area or a heavier sign must be approved by the Engineer. If the structure height ("H") exceeds 30'-0", contact the Engineer.

FOUNDATION MATERIALS AND STRENGTHS:
Class S Concrete f'c = 3,500 psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A) fy = 60,000 psi

Spread footings for the structure have been designed assuming a factored bearing resistance of 2.0 ksf. Contractor shall be responsible for evaluating and verifying that the foundation soils are adequate to achieve the assumed factored bearing capacity, utilizing SPT (Standard Penetration Test), CPT (Cone Penetration Test), DCP (Dynamic Cone Penetration) test, or other suitable means, prior to or after footing excavation, whichever is appropriate. If the foundation soils are verified to be adequate, then the footing shall be constructed in accordance with the planned dimensions. Otherwise, the Design Engineer shall be contacted. Costs for foundation soil evaluation and verification shall be included in the item "STEEL CANTILEVER SIGN STRUCTURE (_)".

Structural steel sign support members shall comply with the following specifications:

Angles:	ASTM A709, Grade 36 (Fy = 36,000 psi)
Plate, W-Section:	ASTM A709, Grade 50 (Fy = 50,000 psi)
(1) Pipe:	ASTM A139, Gr. C, straight-seam welded (Fy = 42,000 psi)
	ASTM A500, Gr. B (Fy = 42,000 psi)
	ASTM A501, Gr. B (Fy = 50,000 psi)
Z-Shapes:	ASTM A709, Grade 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM F3125, Grade A325, Type 1
Locknuts - Approved Type:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers:	ASTM F436
Nuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H

The Contractor shall make check measurements in the field and make any adjustments necessary to meet the required clearances and to fit the new structure to the existing and/or proposed conditions.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All steel shall be galvanized according to Subsection 807.19. Steel completely encased in concrete may not be galvanized. Galvanized coating damaged during transport, handling or erection shall be field repaired in accordance with Subsection 807.88.

All main load carrying tension members greater than ½" in thickness shall conform to the requirements of the Longitudinal Charpy V-Notch test specified for Zone 1 minimum service temperature. This work and materials shall be paid for in accordance with Special Provision "STEEL SIGN STRUCTURES".

Field splices shall be located in order to avoid sign panel connections. There shall be a maximum of two field splices, and they shall be spaced a minimum of 15 feet apart.

Truss field sections shall be shop assembled. Entire truss shall be fully assembled and lifted into place as one unit on to tower supports. All truss member connections shall be bolted connections.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26 except welding of tubular sections shall conform to AWS D1.1 Structural Welding Code.

No circumferential butt welds will be allowed in any pipe sections.

All fillet welds of critical members shall be tested according to AWS D1.1 Structural Welding Code - Steel using the magnetic particle method. Critical welds shall include: column to base plate and truss bottom support to column.

Connections shall be bolted with high-strength bolts. Unless otherwise noted, bolts shall be ⅞"ø and open holes shall be 15/16"ø. Bolt spacing shall be 2⅝" for ⅞"ø bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

All truss frame bolts shall comply with ASTM F3125, Grade A325, Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM F3125, Grade A325, Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

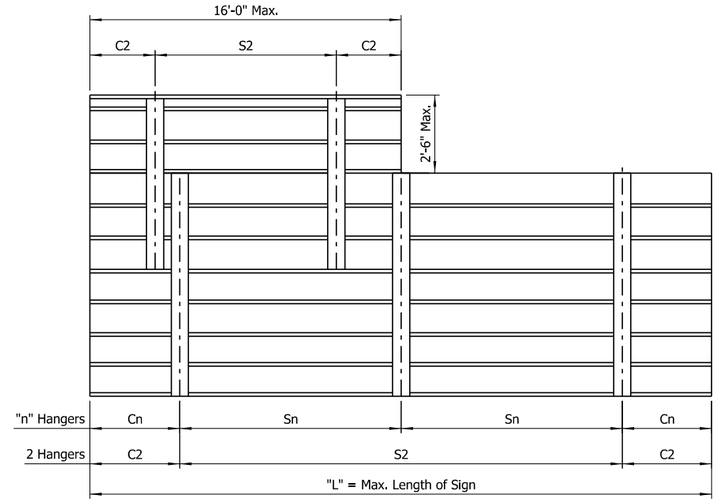
Locknuts shall be equipped with nylon locking inserts or other approved type locking system. Locknuts shall be installed according to Manufacturer's recommendations.

Anchor bolts shall comply with AASHTO M 314, Grade 55, including Supplementary Requirement S1, and shall be galvanized according to Subsection 807.07. Nuts and washers for anchor bolts shall be furnished and galvanized in accordance with Subsection 807.07. Anchor bolts shall be pretensioned in accordance with Special Provision "STEEL SIGN STRUCTURES".

Shoring may be required to protect existing shoulders or other elements during excavation. Any shoring required shall not be paid for directly, but shall be considered incidental to the item "STEEL CANTILEVER SIGN STRUCTURE (_)". The excavations for the footing shall be backfilled before the structure is attached to the foundation.

DYNAMIC MESSAGE SIGN (WHEN APPLICABLE): The Dynamic Message Sign (DMS) supplier shall be responsible for the attachment method and materials used to attach the DMS and its accessories to the structure. The method of attachment shall not facilitate any corrosion of the structure. For additional information regarding the DMS, see Special Provision "OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY".

For location of each 35' cantilever sign structure to be used, refer to ITS and/or Sign Plans.



NOTE:
See sign details and plan sheets for number, size and dimensions of signs.

HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

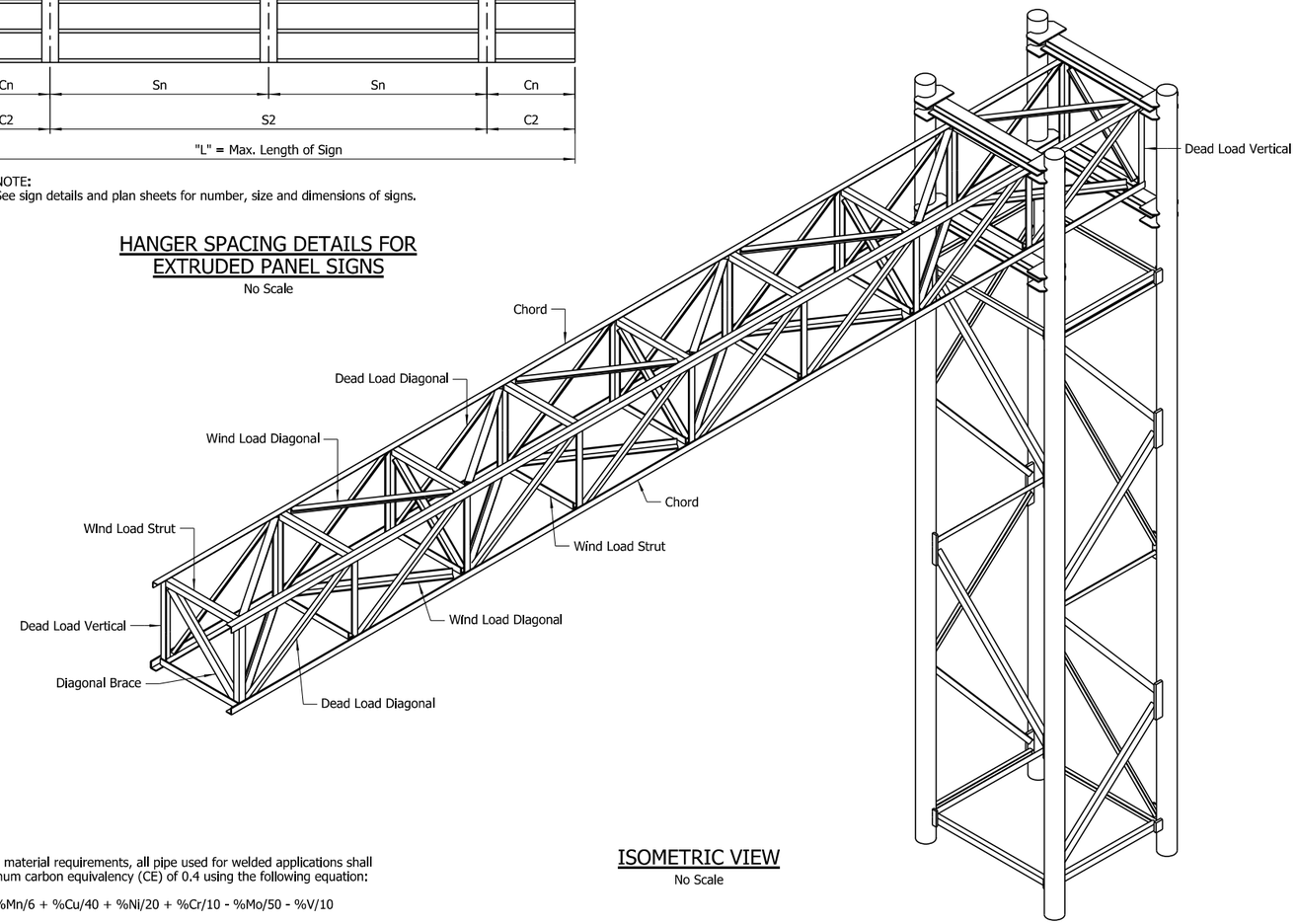
No Scale

HANGER VARIABLES

(For Extruded Panel Signs)

Max. Length of Sign = "L"	"n" Hangers	Cantilever Length "Cn"	Hanger Spacing "Sn"
15'-0"	2 Hangers	0.21 x "L"	0.58 x "L"
30'-0"	3 Hangers	0.145 x "L"	0.355 x "L"

NOTE:
Hanger spacing and cantilever length shall be rounded to the nearest inch.



ISOMETRIC VIEW

No Scale

(1) In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:

CE = %C + %Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10

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SHEET 5 OF 6
STANDARD DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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DRAWN BY:	CSW	DATE:	DEC. 2022	FILENAME:	b55090e.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

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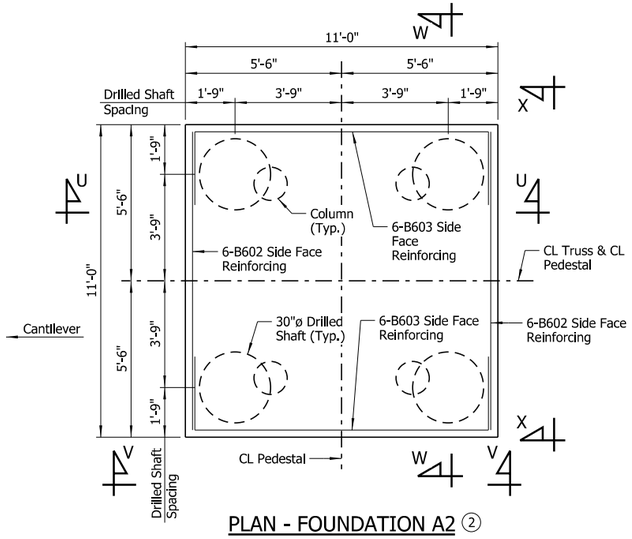
DRAWING NO. 55090E

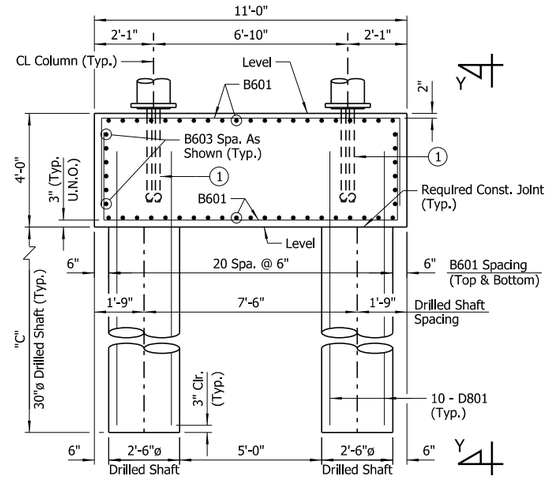
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		CANTILEVER SIGN STR. (35') - 55090F				



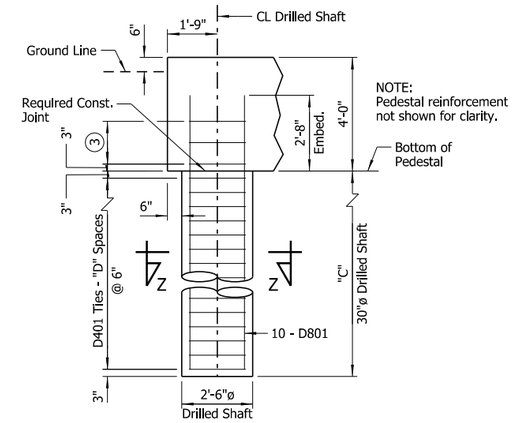
PLAN - FOUNDATION A2 (2)

Scale: ⅜" = 1'-0"



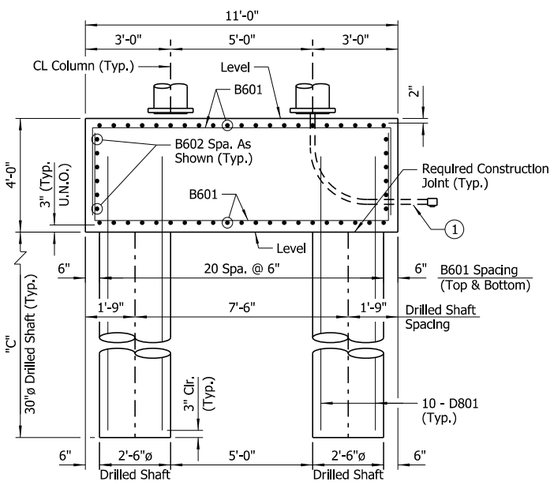
SECTION W-W

Scale: ⅜" = 1'-0"



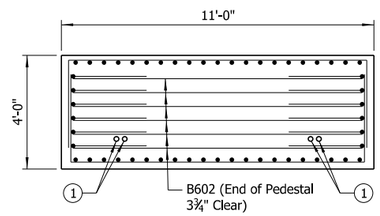
VIEW Y-Y

Scale: ⅜" = 1'-0"



SECTION U-U

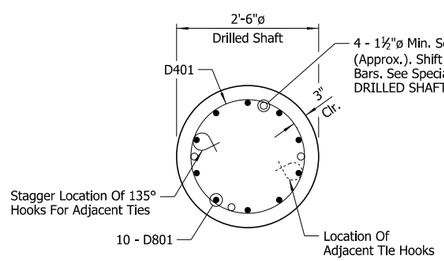
Scale: ⅜" = 1'-0"



VIEW X-X

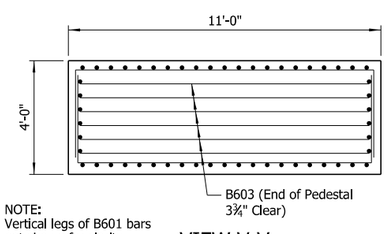
Scale: ⅜" = 1'-0"

NOTE:
Vertical legs of B601 bars not shown for clarity.



SECTION Z-Z

Scale: ¾" = 1'-0"



NOTE:
Vertical legs of B601 bars not shown for clarity.

VIEW V-V

Scale: ⅜" = 1'-0"

(1) 2" Non-Metallic Conduit (Schedule 80) with 16" Min. Bend Radius (2 Conduits per Outside Column). An Insulated bushing shall be installed at the top end of each conduit. If cabling in the conduit is not required per Electrical and/or ITS plans, the end of conduit in the ground shall be capped for future use with a manufactured water-tight cap.

(2) Foundation A2 allowed only when foundation is outside clear zone or is protected by guardrail or barrier.

(3) C401 Ties - 2 Spaces @ 9"

(4) Does not include Class S Concrete for Drilled Shafts

(5) Does not include D401 and D801 Bars in Drilled Shafts

(6) Tabulated SPT N60 values are raw SPT N values corrected by SPT hammer efficiency and represent average values along the plan shaft penetration. If the SPT N60 values in the foundation soils within 2 shaft diameters below the plan tip elevation are less than the average SPT N60 values along the plan shaft penetration, the Engineer shall be contacted.

(7) If final drilled shaft length is not shown in "TABLE OF VARIABLES" due to the presence of rock or other factors, variables "D" through "G" shall be determined as follows:

"D" = (Shaft Length in Ft. - 0.5) / 0.5
"E" = Shaft Length in Ft. x 8
"F" = Shaft Length + 2'-5"
"G" = Shaft Length x 4

(8) If "F" exceeds 60'-0", a lap splice is required for each D801 bar at the midpoint of the drilled shaft. Min. lap splice length for D801 bar = 3'-6". Length shown in table does not include the additional length required for a lap splice.

DRILLED SHAFT NOTES (FOUNDATION A2)

Drilled shafts shall conform to Special Provision "DRILLED SHAFT FOUNDATIONS FOR STEEL SIGN STRUCTURES". Drilled shafts will not be paid for directly but shall be considered subsidiary to the unit price bid for "STEEL CANTILEVER SIGN STRUCTURE (_)". Temporary casing may be required. Unless approved by the Engineer, permanent steel casing shall not be used.

Crosshole Sonic Logging (CSL) shall be performed on one drilled shaft at each foundation and as directed by the Engineer. Testing shall be performed in accordance with Special Provision "NONDESTRUCTIVE TESTING OF DRILLED SHAFTS FOR STEEL SIGN STRUCTURES".

Concrete and reinforcing steel placed in drilled shafts will not be paid for directly but shall be considered subsidiary to the unit price bid for "STEEL CANTILEVER SIGN STRUCTURE (_)". No additional payment shall be made for spacers, additional splices or bracing needed for assembly, shipping, handling or erecting.

Concrete in drilled shafts shall be Class "S" as modified by Special Provision "DRILLED SHAFT FOUNDATIONS FOR STEEL SIGN STRUCTURES".

Drilled shaft lengths shall be determined based on the results of exploratory borings, which shall be performed by the Contractor prior to shaft excavation.

If competent rock is not encountered in the exploratory boring, the Standard Penetration Test (SPT) blow count corrected by the hammer efficiency, N60, shall be used to determine shaft lengths. See "TABLE OF VARIABLES".

If competent rock is encountered in the exploratory boring within 25'-0" of planned top of drilled shaft, the shafts shall be founded a minimum of 3'-0" into rock and have a minimum length of 25'-0".

If competent rock is encountered in the exploratory boring below 25'-0" from planned top of drilled shaft, the shafts shall be founded a minimum of 3'-0" into rock or to the depth based on the SPT N60 value and associated shaft length in the "TABLE OF VARIABLES", whichever is shallower.

Testing results shall be submitted to the Engineer for review. Final drilled shaft lengths shall be approved by the Engineer prior to construction.

The cost of performing exploratory borings and in-situ strength testing shall be included in the item "STEEL CANTILEVER SIGN STRUCTURE (_)".

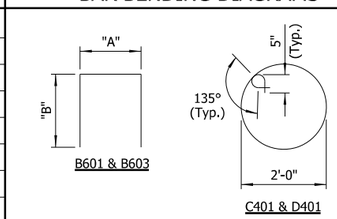
TABLE OF VARIABLES (7)

SPT N60 (6) (blows/ft.)	Min. Depth of Exploratory Boring	Drilled Shaft Length, "C"	"D"	"E"	"F" (8)	"G"
<5	-	Contact Engineer	-	-	-	-
5 To 7	75'-0"	70'-0"	139	560	72'-5"	280'-0"
7 To 9	63'-0"	58'-0"	115	464	60'-5"	232'-0"
9 To 11	47'-0"	42'-0"	83	336	44'-5"	168'-0"
11 To 13	37'-0"	32'-0"	63	256	34'-5"	128'-0"
>13	31'-0"	26'-0"	51	208	28'-5"	104'-0"

BAR LIST - FOUNDATION A2

MARK	NO. REQ'D	LENGTH	"A"	"B"	P.D.
B601	84	16'-4"	10'-6"	3'-1"	4½"
B602	12	10'-4"			Str.
B603	12	15'-2"	10'-4"	2'-7"	4½"
C401	12	7'-4"			3"
D401	"E"	7'-4"			3"
D801	40	"F"			Str.

BAR BENDING DIAGRAMS



NOTES:
Dimensions of bars are out-to-out.

Number of bars shown is for one Foundation A2.

APPROX. QUANTITIES FOR FOUNDATION A2 (FOR INFORMATION ONLY)

CLASS S CONCRETE (4) (CU. YDS.)	REINFORCING STEEL (LBS.) (5)	EXCAVATION (CU. YDS.)	DRILLED SHAFT (30" DIA.) (LIN. FT.)	CROSSHOLE SONIC LOGGING (30" DIA.) (EACH)
18.00	2,580	26	"G"	1

LEGEND

U.N.O. = Unless Noted Otherwise

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

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SHEET 6 OF 6
STANDARD DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

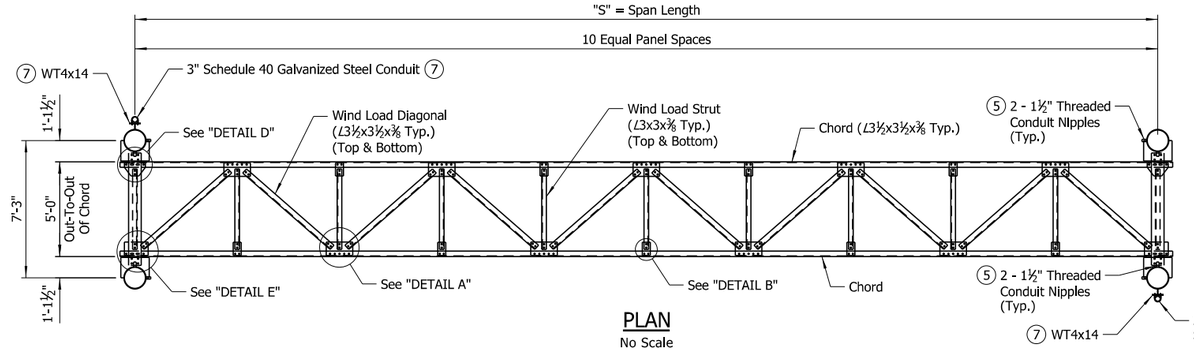
DRAWN BY:	CWT	DATE:	JAN. 2023	FILENAME:	b55090f.dgn
CHECKED BY:	CSW	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55090F

6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (40' TO 54') - 55092A				

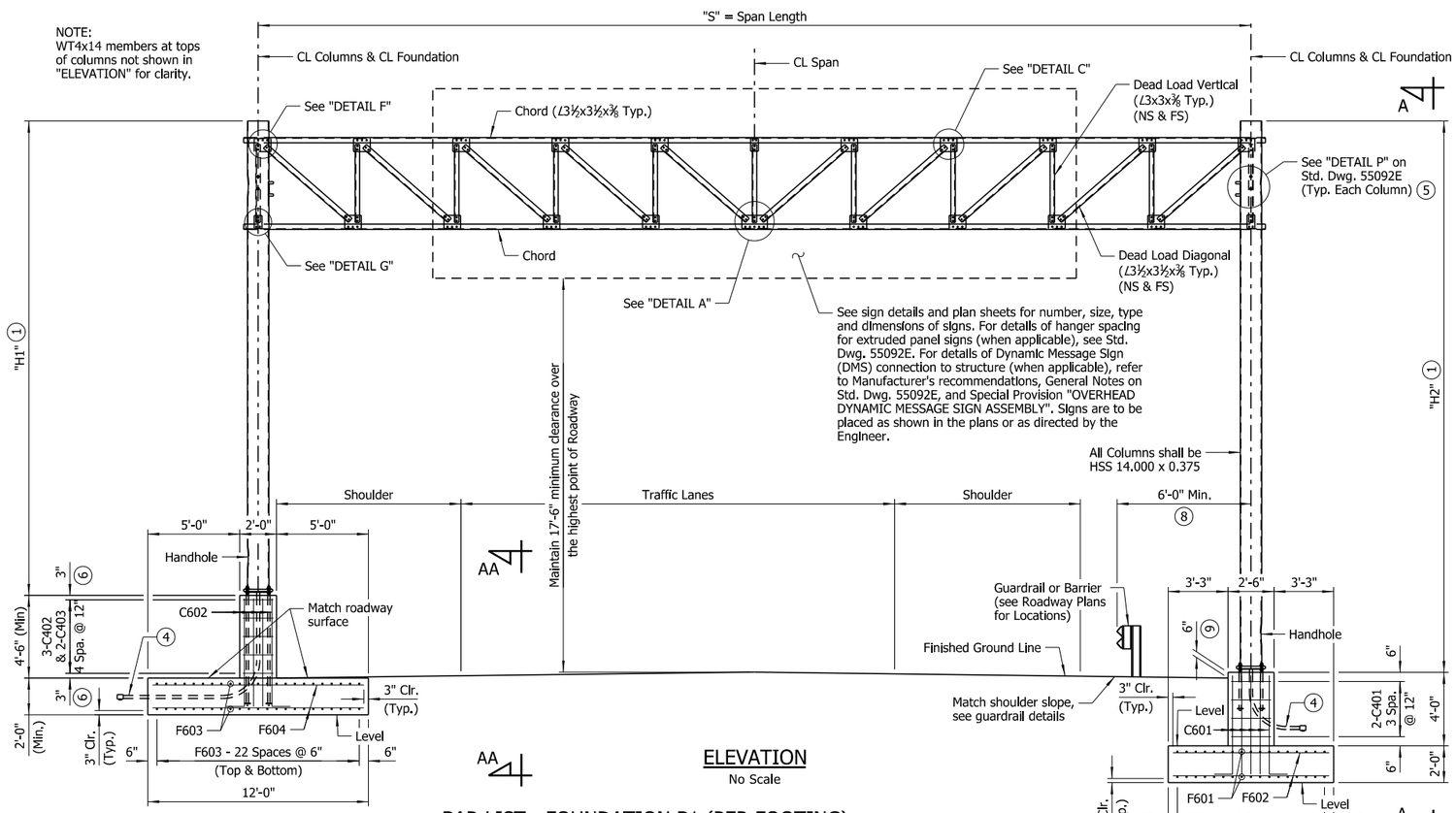


NOTE:
Refer to Sign Layout Sheets for Span Length "S" and Foundation Types required for each structure.

PLAN
No Scale

LEGEND
NS = Near Side
FS = Far Side

1. The Contractor shall make field measurements to determine the column heights "H1" and "H2" that are required to maintain the minimum vertical clearance with the centerline of the sign located at the centerline of the truss. These column heights shall be shown on the shop drawings with a note stating that the Contractor has made the required field measurements. If the structure height ("H1" or "H2") exceeds 30'-0", contact the Engineer. The Contractor shall also verify that the variable span length (40'-0" to 54'-0") is sufficient to meet the minimum clearances and to fit the new structure to the existing and/or proposed conditions.
2. Foundation A1 allowed only when foundation is outside clear zone or is protected by guardrail or barrier. For alternate drilled shaft foundation (Foundation A2), see Std. Dwg. 55092F.
3. Foundation B1 is required when the foundation is located in a median, within the clear zone, and is not protected by guardrail or barrier. Foundation B1 requires adjacent Roadway Median Barrier to transition to match the ends of the pedestal. For alternate drilled shaft foundation (Foundation B2), see Std. Dwg. 55092F.
4. 2" Non-Metallic Conduit (Schedule 80) with 16" Min. Bend Radius (2 Conduits per Column). At Foundation B1, conduit shall not be provided if cabling on that side of the sign structure is not required per Electrical and/or ITS plans. At Foundation A1, conduit shall always be provided. If cabling in the conduit at Foundation A1 is not required per Electrical and/or ITS plans, the end of conduit in the ground shall be capped for future use with a manufactured water-tight cap.
5. Threaded Conduit Nipples shall be fitted with standard plugs until conduit is installed.



3 FOUNDATION B1

ELEVATION
No Scale

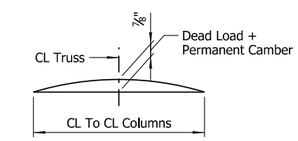
2 FOUNDATION A1

6. Minor adjustments are allowed to maintain C402 and C403 12" spacing for foundations located in longitudinal grades.
7. See "SECTION U-U" on Std. Dwg. 55092C. WT4x14 always required. 3" Conduit and Clamping U-Bolts only required when necessary to support ITS equipment or as directed by the Engineer. See ITS Plans.
8. Minimum dimension when guardrail is present. See Sign Layout Sheets and/or ITS Plans for actual dimension for each structure.
9. Dimension from top of pedestal to Finished Ground Line shall be maintained along the perimeter of the pedestal.

NOTES:
For "VIEW A-A", see Std. Dwg. 55092B.

For "DETAIL A" thru "DETAIL G", see Std. Dwg. 55092C.

For "VIEW AA-AA", see Std. Dwg. 55092D.

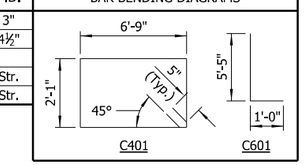


TRUSS CAMBER DIAGRAM
No Scale

BAR LIST - FOUNDATION A1 (PER FOOTING)

MARK	NO. REQ'D	LENGTH	P.D.
C401	8	18'-2"	3"
C601	46	6'-3"	4½"
F601	34	20'-6"	Str.
F602	82	8'-6"	Str.

BAR BENDING DIAGRAMS

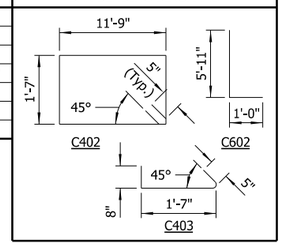


NOTE:
Dimensions of bars are out-to-out.

BAR LIST - FOUNDATION B1 (PER FOOTING)

MARK	NO. REQ'D	LENGTH	P.D.
C402	15	27'-2"	3"
C403	10	2'-7"	3"
C602	116	6'-9"	4½"
F603	46	27'-6"	Str.
F604	110	11'-6"	Str.

BAR BENDING DIAGRAMS



NOTE:
Dimensions of bars are out-to-out.

APPROXIMATE QUANTITIES FOR FOUNDATION A1 PER FOOTING (FOR INFORMATION ONLY)

CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
17.70	2,630	59

APPROXIMATE QUANTITIES FOR FOUNDATION B1 PER FOOTING (FOR INFORMATION ONLY)

CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
34.30	5,270	35

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

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SHEET 1 OF 6
STANDARD DETAILS OF 40' TO 54'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

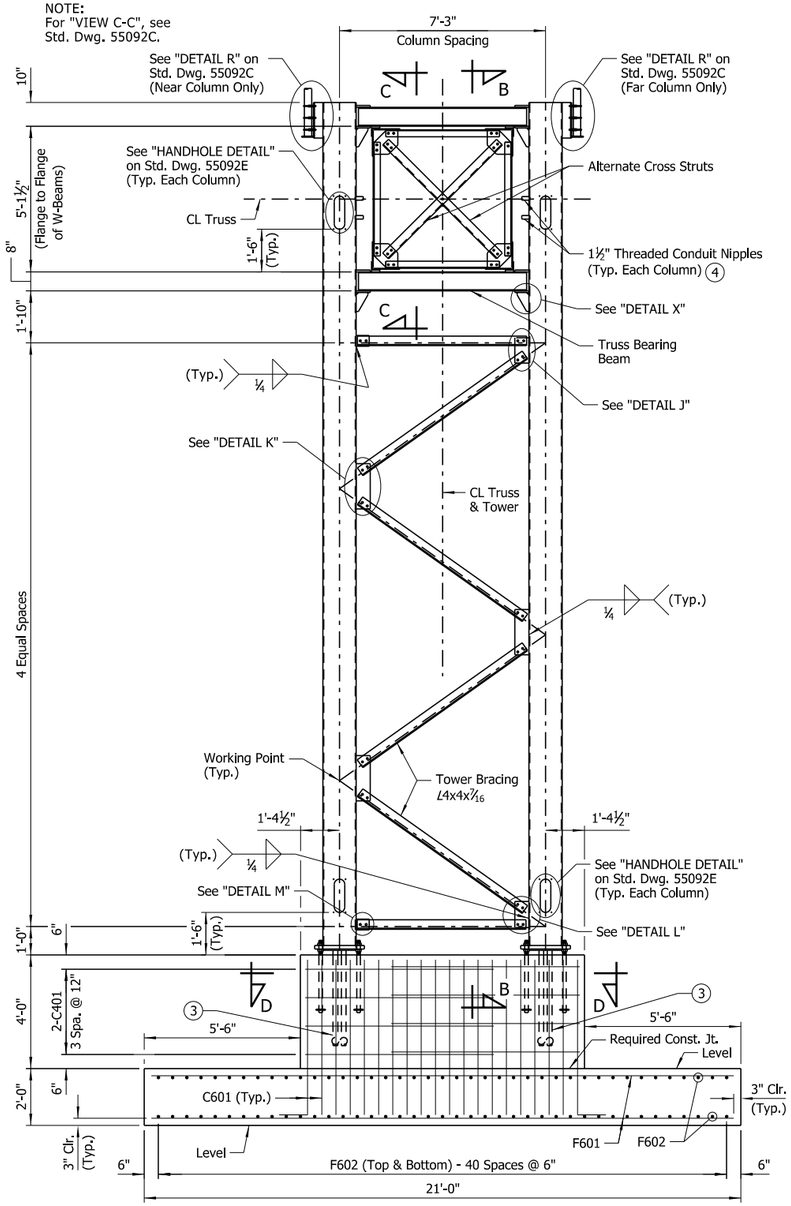
DRAWN BY: CWT DATE: NOV. 2022 FILENAME: b55092a.dgn
CHECKED BY: ABH DATE: JAN. 2023 SCALE: As Shown
DESIGNED BY: STD. DATE: -

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half. DRAWING NO. 55092A

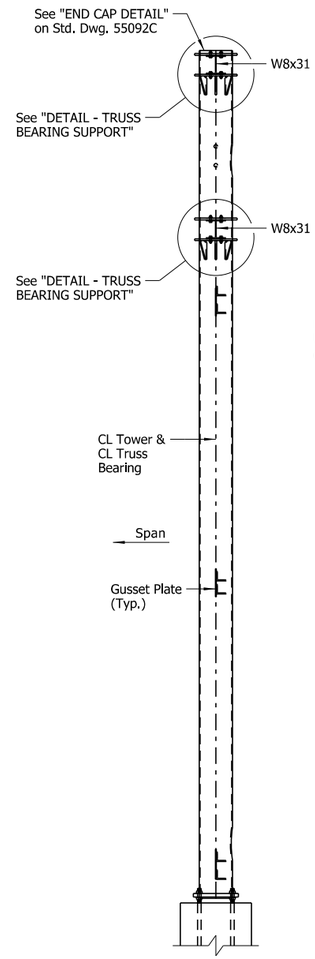
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (40' TO 54') - 55092B				

NOTE:
For "VIEW C-C", see Std. Dwg. 55092C.

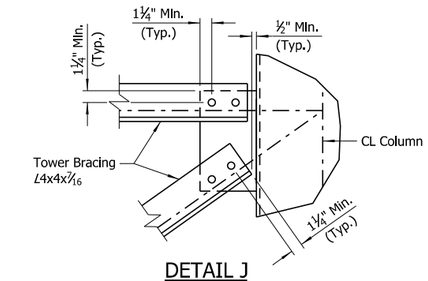


VIEW A-A
(Foundation A1)
No Scale

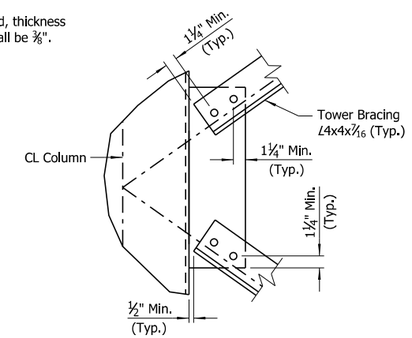


VIEW B-B
No Scale

NOTE:
Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".



DETAIL J
No Scale



DETAIL K
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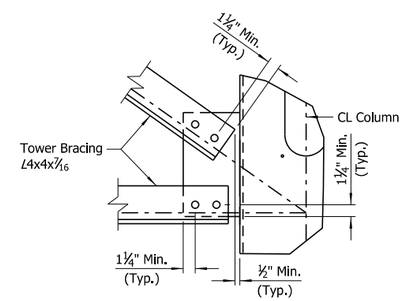
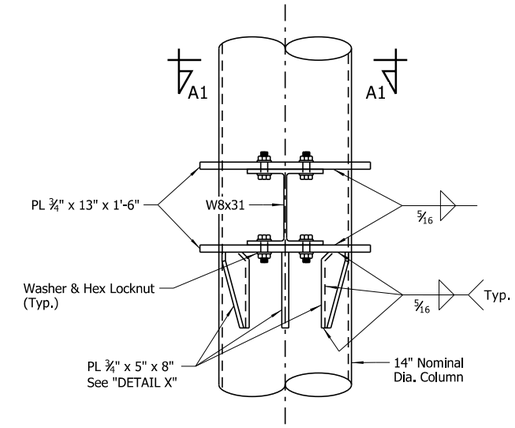
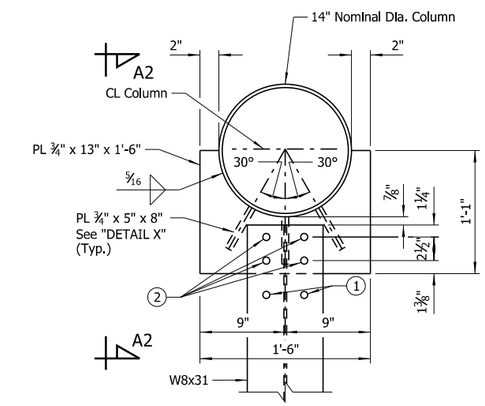


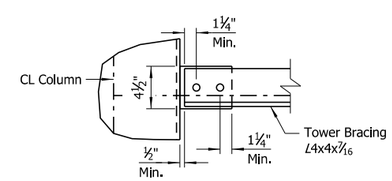
DETAIL L
No Scale



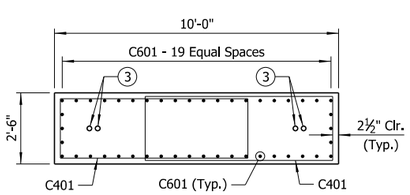
DETAIL - TRUSS BEARING SUPPORT
Scale: 1½" = 1'-0"



VIEW A1-A1
Scale: 1½" = 1'-0"

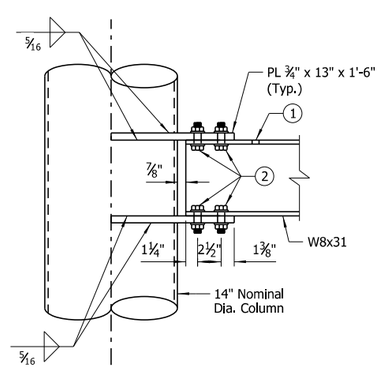


DETAIL M
No Scale

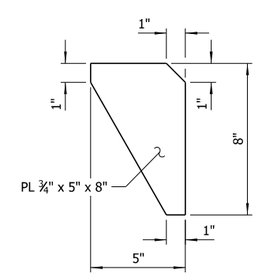


SECTION D-D
Scale: ⅜" = 1'-0"

1. Bolts shall be ¾"ø. Provide 13/16" x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Provide 13/16"ø holes in ¾" shim plate and top or bottom beam flanges as required.
2. Bolts shall be ¾"ø. Provide 13/16"ø holes at top and bottom beam flanges and connection plates.
3. 2" Non-Metallic Conduit (Schedule 80) (2 Conduits per Column). An insulated bushing shall be installed at the top end of each conduit.
4. Threaded Conduit Nipples shall be fitted with standard plugs until conduit is installed.



VIEW A2-A2
Scale: 1½" = 1'-0"
(¾" x 5" x 8" Plate not shown for clarity)



DETAIL X
Scale: 3" = 1'-0"

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 2 OF 6
STANDARD DETAILS OF 40' TO 54'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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DRAWN BY:	CWT	DATE:	NOV. 2022	FILENAME:	b55092b.dgn
CHECKED BY:	ABH	DATE:	JAN. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

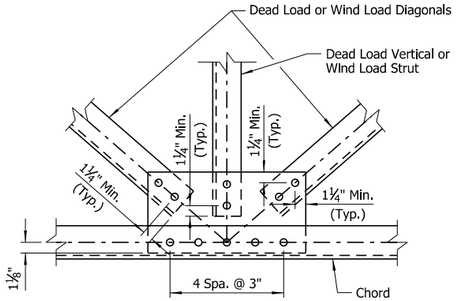
Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55092B

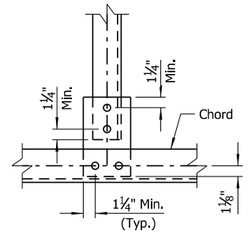
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (40' TO 54') - 55092C				

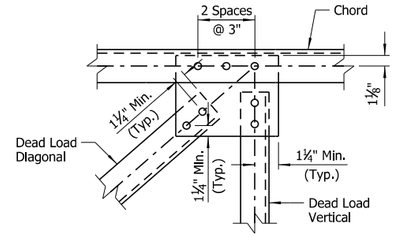
NOTE:
Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".



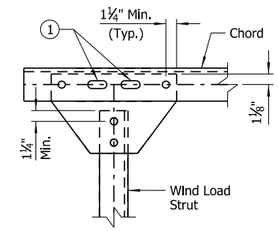
DETAIL A
No Scale



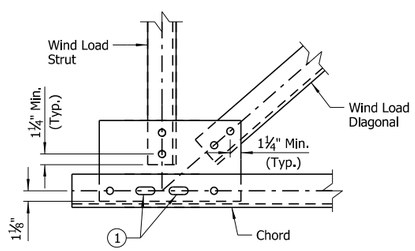
DETAIL B
No Scale



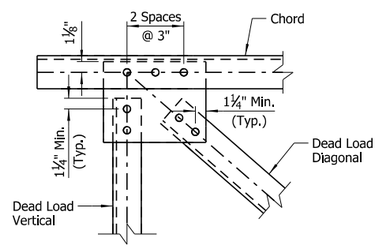
DETAIL C
No Scale



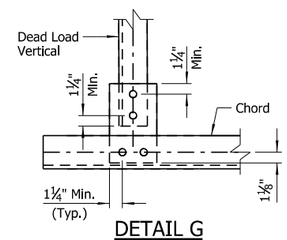
DETAIL D
No Scale



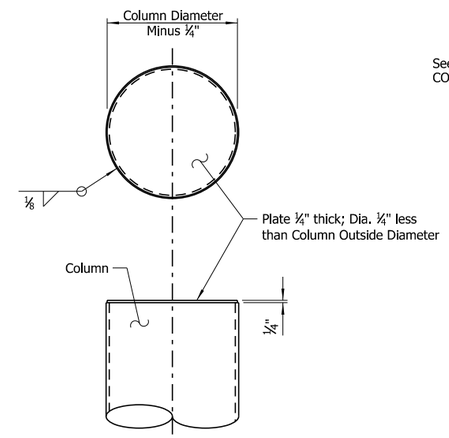
DETAIL E
No Scale



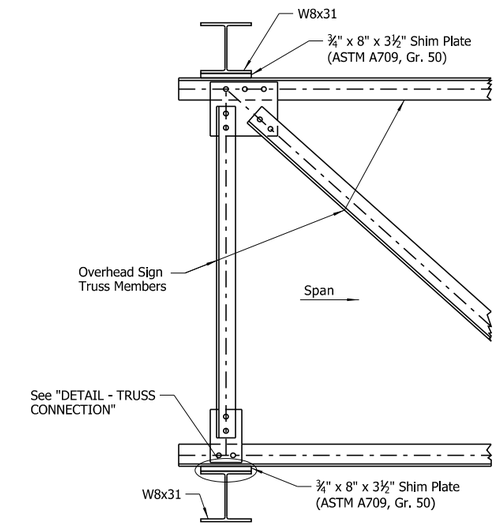
DETAIL F
No Scale



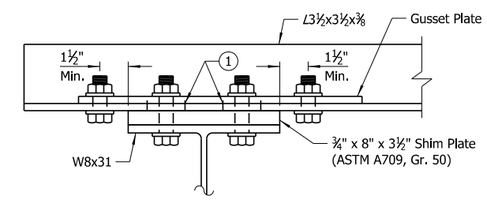
DETAIL G
No Scale



END CAP DETAIL
Scale: 1½" = 1'-0"

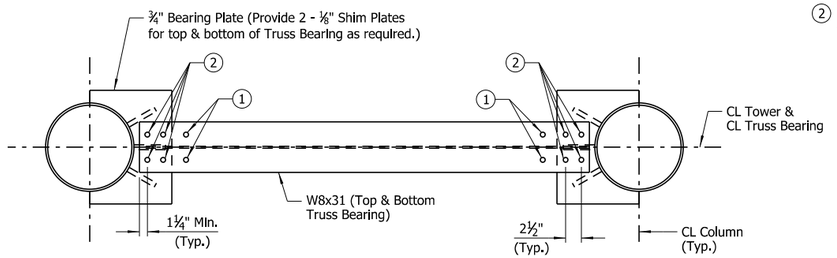


VIEW C-C
No Scale

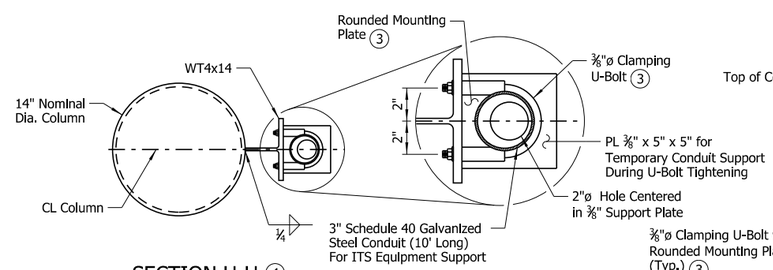


DETAIL - TRUSS CONNECTION
No Scale

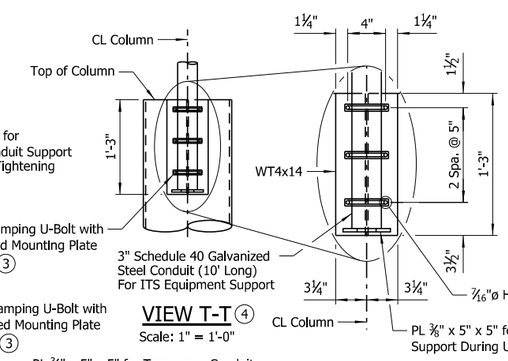
1. Bolts shall be ¾"ø. Provide 13/16" x 2" slotted holes in gusset plate and chord angle. Clearance between end of slot and adjacent bolt hole shall be no less than 1½". Provide 13/16"ø holes in ¾" shim plate and top or bottom beam flanges as required. Use plate washer on gusset plate side.
2. Bolts shall be ¾"ø. Provide 13/16"ø holes at top and bottom beam flanges and connection plates.



PLAN AT TRUSS BEARING
Scale: 1" = 1'-0"

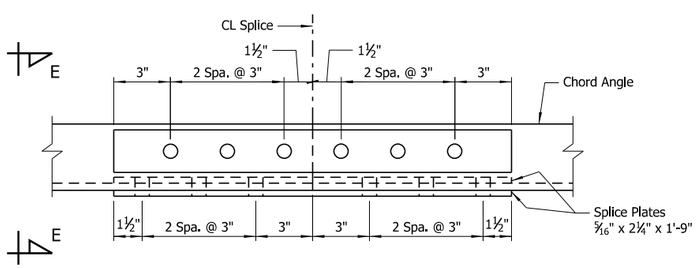


SECTION U-U 4
Scale: 1½" = 1'-0"



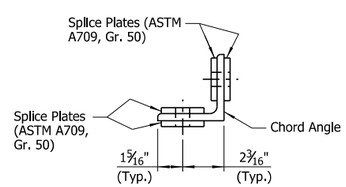
VIEW T-T 4
Scale: 1" = 1'-0"

3. When required per plans to support ITS equipment, or as directed by the Engineer, Clamping U-Bolt with Rounded Mounting Plate Assembly product shall be included in shop drawings for approval. Assembly shall be galvanized and shall meet the requirements of ASTM A36 at a minimum. Install per Manufacturer's instructions.
4. WT4x14 with ⅜" Temporary Support Plate always required. 3" Conduit and Clamping U-Bolts only required when necessary to support ITS equipment or as directed by the Engineer. See ITS Plans.

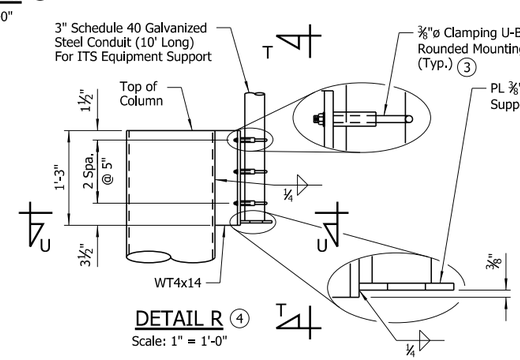


CHORD SPLICE
Scale: 3" = 1'-0"

NOTE:
Chord angles may be spliced in convenient lengths for galvanizing and sign placement.



VIEW E-E
Scale: 3" = 1'-0"



DETAIL R 4
Scale: 1" = 1'-0"

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

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SHEET 3 OF 6
STANDARD DETAILS OF 40' TO 54'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

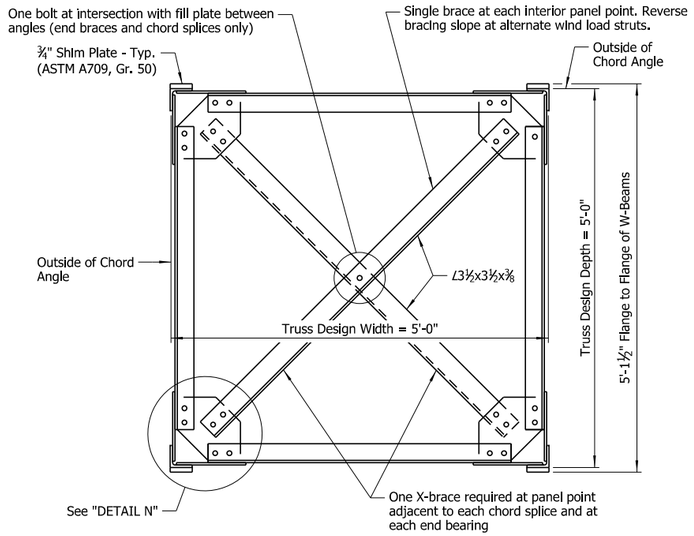
DRAWN BY:	CWT	DATE:	NOV. 2022	FILENAME:	b55092c.dgn
CHECKED BY:	ABH	DATE:	JAN. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55092C

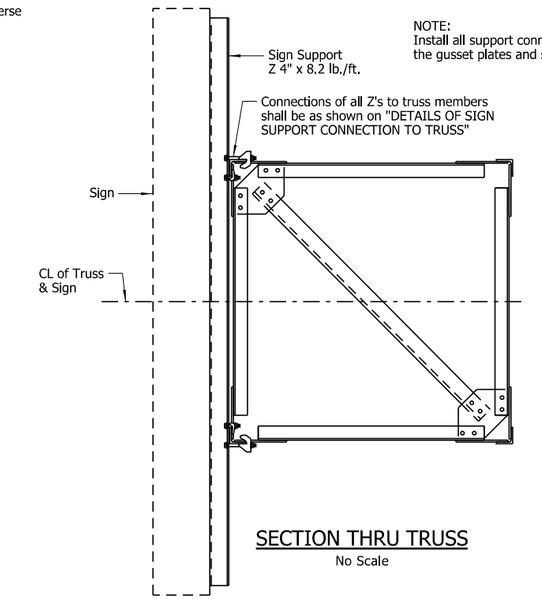
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (40' TO 54') - 55092D				



TRUSS SECTION

Scale: 1" = 1'-0"

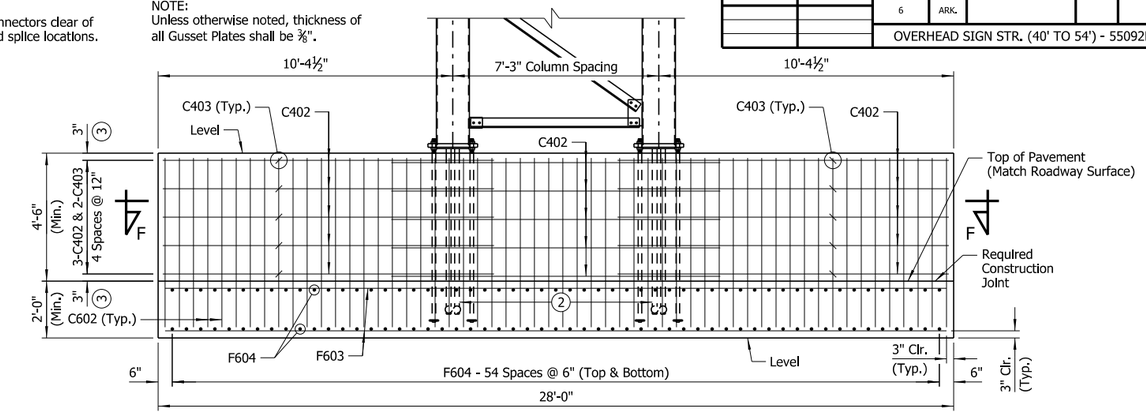


NOTE:
Install all support connectors clear of the gusset plates and splice locations.

SECTION THRU TRUSS

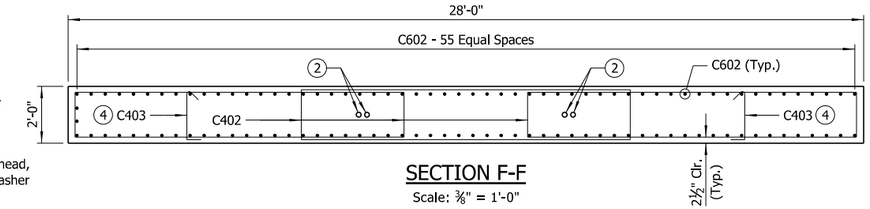
No Scale

NOTE:
Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".



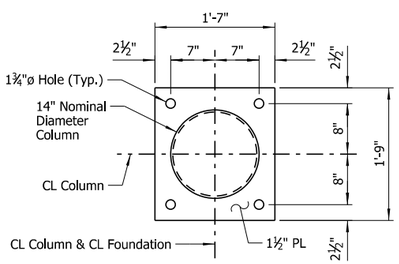
VIEW AA-AA

(Foundation B1)
Scale: ⅜" = 1'-0"



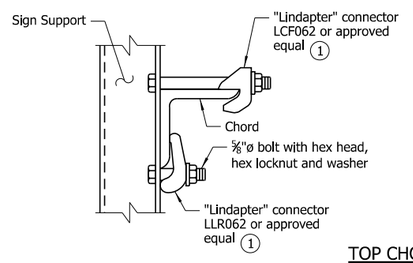
SECTION F-F

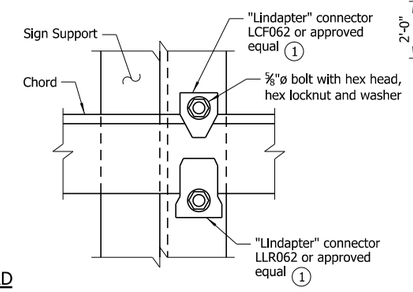
Scale: ⅜" = 1'-0"



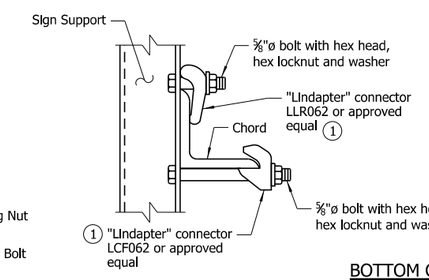
PLAN - COLUMN BASE

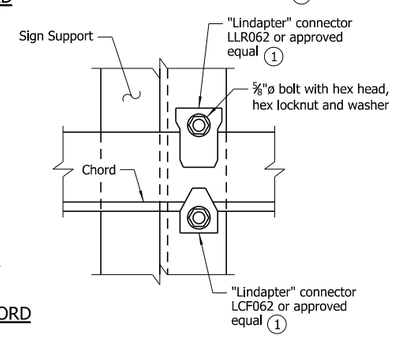
Scale: 1" = 1'-0"





TOP CHORD

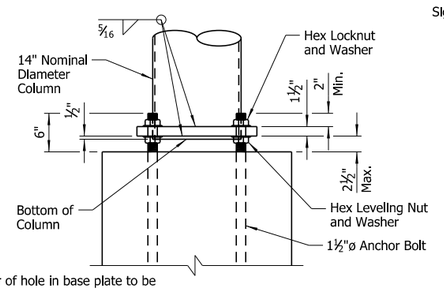




BOTTOM CHORD

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS

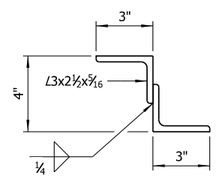
No Scale



NOTE:
Diameter of hole in base plate to be ⅛" larger than column diameter.

ELEVATION - COLUMN BASE

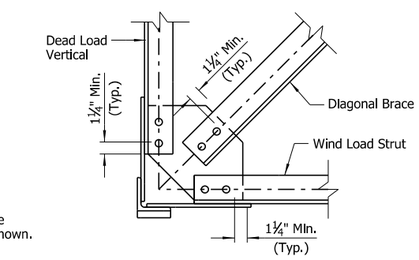
Scale: 1" = 1'-0"



NOTE:
Structural Z Support may be fabricated from angles as shown.

DETAILS OF ALTERNATE Z SUPPORT

No Scale



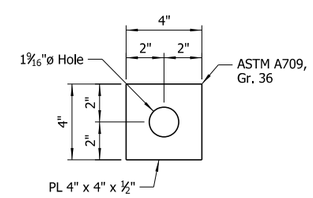
DETAIL N

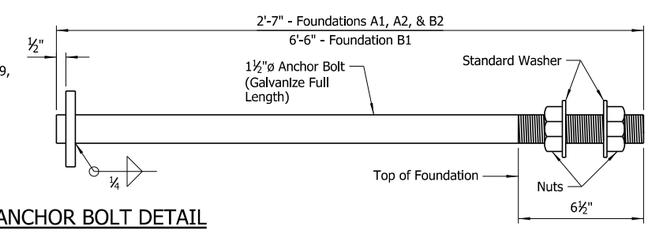
Scale: 1½" = 1'-0"

(2) 2" Non-Metallic Conduit (Schedule 80) (2 Conduits per Column). An insulated bushing shall be installed at the top end of each conduit. Conduit shall not be provided if cabling at Foundation B1 is not required per Electrical and/or ITS plans.

(3) Minor adjustments are allowed to maintain C402 and C403 12" spacing for foundations located in longitudinal grades.

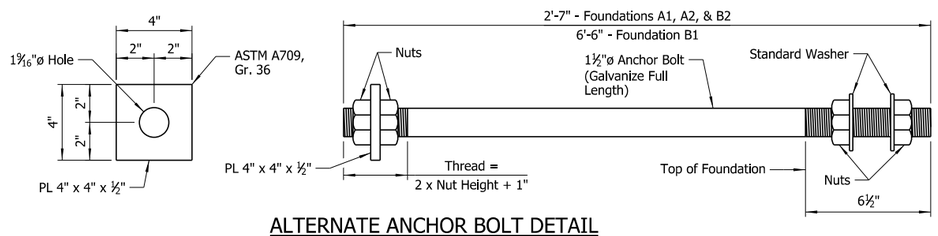
(4) Alternate C403 ties end for end at each layer of reinforcing.





ANCHOR BOLT DETAIL

No Scale



ALTERNATE ANCHOR BOLT DETAIL

No Scale

(1) All "Lindapter" connectors or approved equal shall be installed according to Manufacturer's recommendations. All connectors, bolts, nuts and washers shall be galvanized.

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 4 OF 6
STANDARD DETAILS OF 40' TO 54'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

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DRAWN BY:	CWT	DATE:	NOV. 2022	FILENAME:	b55092d.dgn
CHECKED BY:	ABH	DATE:	JAN. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55092D

6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (40' TO 54') - 55092E				

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014 Edition, with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, First Edition, 2015 with current interim revisions.

Basic Wind Speed = 120 mph
Fatigue Category: I

This structure is approved for a maximum sign area equal to 75% of the span length times a sign height of 15 feet. This structure is approved for a maximum sign weight (total of all signs and hangers) of 4,560 lbs. Use of additional sign area or a heavier sign must be approved by the Engineer. If the structure height ("H1" or "H2") exceeds 30'-0", contact the Engineer.

FOUNDATION MATERIALS AND STRENGTHS:
Class S Concrete f'c = 3,500 psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A) fy = 60,000 psi

Spread footings for the structure have been designed assuming a factored bearing resistance of 2.0 ksf. Contractor shall be responsible for evaluating and verifying that the foundation soils are adequate to achieve the assumed factored bearing capacity, utilizing SPT (Standard Penetration Test), CPT (Cone Penetration Test), DCP (Dynamic Cone Penetration) test, or other suitable means, prior to or after footing excavation, whichever is appropriate. If the foundation soils are verified to be adequate, then the footing shall be constructed in accordance with the planned dimensions. Otherwise, the Design Engineer shall be contacted. Costs for foundation soil evaluation and verification shall be included in the item "STEEL OVERHEAD SIGN STRUCTURE (_)".

Structural steel sign support members shall comply with the following specifications:

Angles:	ASTM A709, Gr. 36 (Fy = 36,000 psi)
Plate, W-Section:	ASTM A709, Gr. 50 (Fy = 50,000 psi)
(1) Pipe:	ASTM A139, Gr. C, straight-seam welded (Fy = 42,000 psi), ASTM A500, Gr. B (Fy = 42,000 psi), ASTM A501, Gr. B (Fy = 50,000 psi)
Z-Shapes:	ASTM A709, Grade 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM F3125, Grade A325, Type 1
Locknuts - Approved Type:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers:	ASTM F436
Nuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H

The Contractor shall make check measurements in the field and make any adjustments necessary to meet the required clearances and to fit the new structure to the existing and/or proposed conditions.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All steel shall be galvanized according to Subsection 807.19. Steel completely encased in concrete may not be galvanized. Galvanized coating damaged during transport, handling or erection shall be field repaired in accordance with Subsection 807.88.

All main load carrying tension members greater than ½" in thickness shall conform to the requirements of the Longitudinal Charpy V-Notch test specified for Zone 1 minimum service temperature. This work and materials shall be paid for in accordance with Special Provision "STEEL SIGN STRUCTURES".

Field splices shall be located in order to avoid sign panel connections. There shall be a maximum of two field splices, and they shall be spaced a minimum of 15 feet apart.

Truss field sections shall be shop assembled. Entire truss shall be fully assembled and lifted into place as one unit on to tower supports. All truss member connections shall be bolted connections.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26 except welding of tubular sections shall conform to AWS D1.1 Structural Welding Code.

No circumferential butt welds will be allowed in any pipe sections.

All fillet welds of critical members shall be tested according to AWS D1.1 Structural Welding Code - Steel using the magnetic particle method. Critical welds shall include: column to base plate and truss bottom support to column.

Connections shall be bolted with high-strength bolts. Unless otherwise noted, bolts shall be ¾" diameter and open holes shall be 13/16" diameter. Bolt spacing shall be 2½" for ¾" diameter bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

All truss frame bolts shall comply with ASTM F3125, Grade A325, Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM F3125, Grade A325, Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

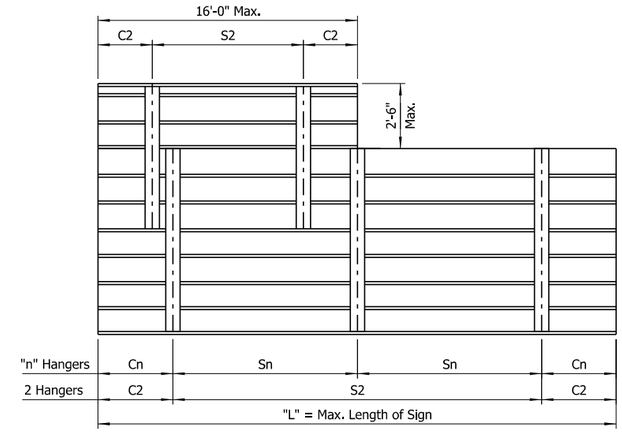
Locknuts shall be equipped with nylon locking inserts or other approved type locking system. Locknuts shall be installed according to Manufacturer's recommendations.

Anchor bolts shall comply with AASHTO M 314, Grade 55, including Supplementary Requirement S1, and shall be galvanized according to Subsection 807.07. Nuts and washers for anchor bolts shall be furnished and galvanized in accordance with Subsection 807.07. Anchor bolts shall be pretensioned in accordance with Special Provision "STEEL SIGN STRUCTURES".

Shoring may be required to protect existing shoulders or other elements during excavation. Any shoring required shall not be paid for directly, but shall be considered incidental to the item "STEEL OVERHEAD SIGN STRUCTURE (_)". The excavations for the footings shall be backfilled before the structure is attached to the foundations.

DYNAMIC MESSAGE SIGN (WHEN APPLICABLE): The Dynamic Message Sign (DMS) supplier shall be responsible for the attachment method and materials used to attach the DMS and its accessories to the structure. The method of attachment shall not facilitate any corrosion of the structure. For additional information regarding the DMS, see Special Provision "OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY".

For location of each 40' to 54' overhead sign structure to be used, refer to ITS and/or Sign Plans.



NOTE:
See sign details and plan sheets for number, size and dimensions of signs.

HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

No Scale

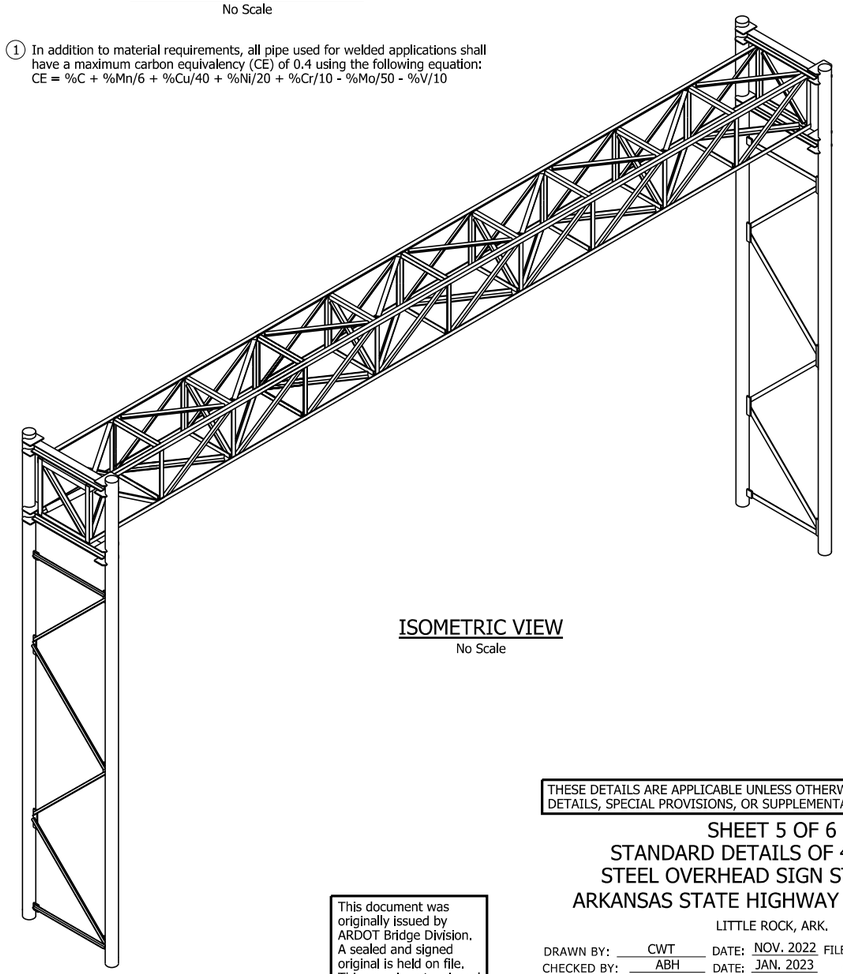
HANGER VARIABLES

(For Extruded Panel Signs)

Max. Length of Sign = "L"	"n" Hangers	Cantilever Length "Cn"	Hanger Spacing "Sn"
15'-0"	2 Hangers	0.21 x "L"	0.58 x "L"
30'-0"	3 Hangers	0.145 x "L"	0.355 x "L"
45'-0"	4 Hangers	0.107 x "L"	0.262 x "L"

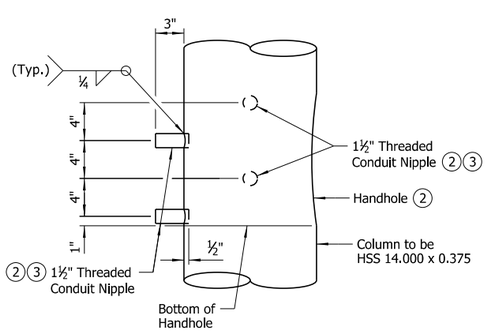
NOTE:
Hanger spacing and cantilever length shall be rounded to the nearest inch.

(1) In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:
CE = %C + %Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10



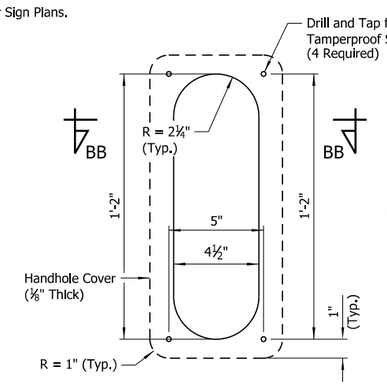
ISOMETRIC VIEW

No Scale



DETAIL P

Scale: 1½" = 1'-0"

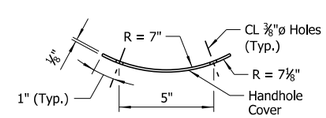


HANDHOLE DETAIL (2)

Scale: 3" = 1'-0"

(2) See details on Std. Dwgs. 55092A & 55092B for location and orientation of handholes and threaded conduit nipples.

(3) Threaded conduit nipples shall be fitted with standard plugs until conduit is installed.



SECTION BB-BB

Scale: 3" = 1'-0"

NOTE:
Provide handhole covers with chain, waterproof grommet, and tamperproof screws.

Handhole covers shall be galvanized and meet the requirements of ASTM A36 at a minimum.

Tamperproof screws shall be galvanized and meet the requirements of ANSI/ASME B18.6.3.

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 5 OF 6
STANDARD DETAILS OF 40' TO 54'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

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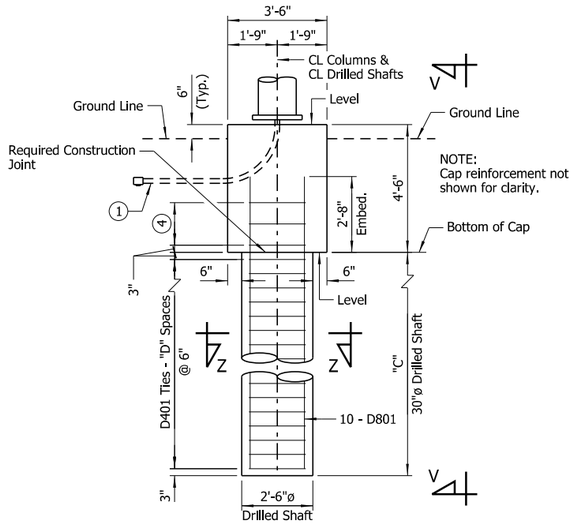
DRAWN BY:	CWT	DATE:	NOV. 2022	FILENAME:	b55092e.dgn
CHECKED BY:	ABH	DATE:	JAN. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55092E

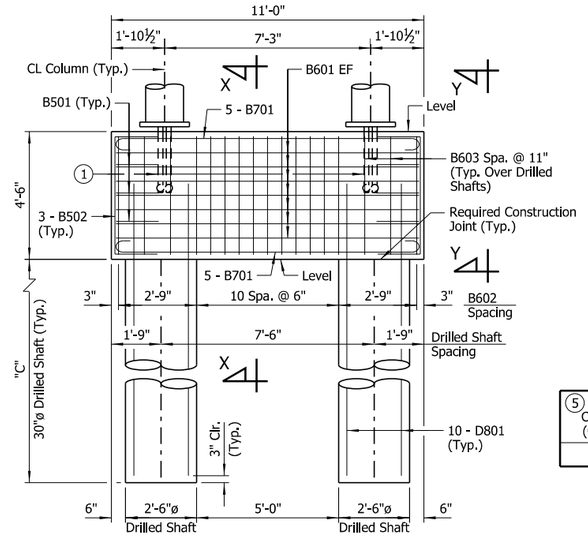
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (40' TO 54') - 55092F				



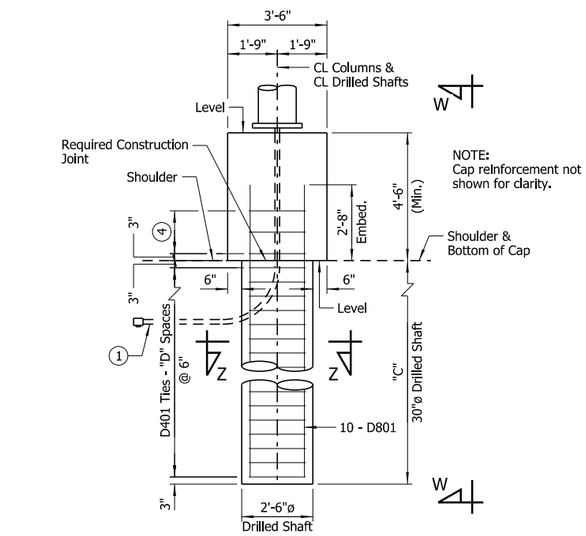
ELEVATION - FOUNDATION A2 ②

Scale: ⅜" = 1'-0"



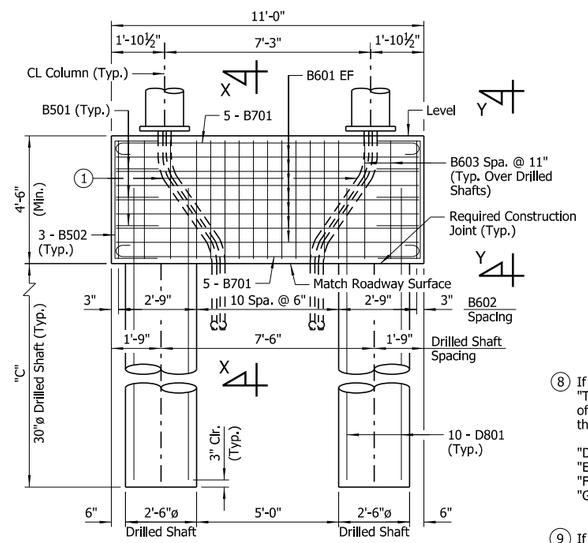
VIEW V-V

Scale: ⅜" = 1'-0"



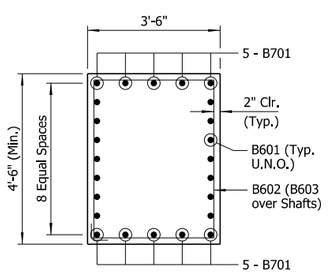
ELEVATION - FOUNDATION B2 ③

Scale: ⅜" = 1'-0"



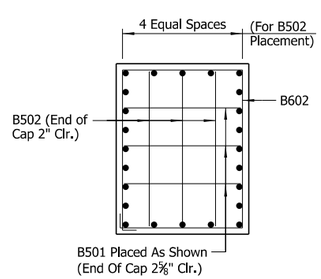
VIEW W-W

Scale: ⅜" = 1'-0"



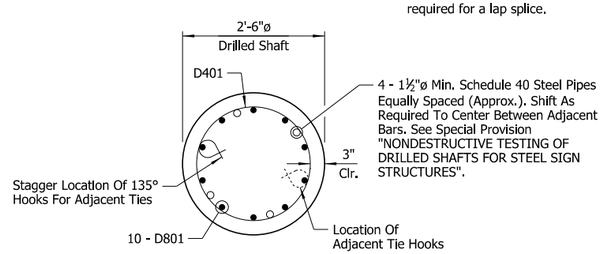
SECTION X-X

Scale: ½" = 1'-0"



VIEW Y-Y

Scale: ½" = 1'-0"



SECTION Z-Z

Scale: ¾" = 1'-0"

① 2" Non-Metallic Conduit (Schedule 80) with 16" Min. Bend Radius (2 Conduits per Column). An insulated bushing shall be installed at the top end of each conduit. At Foundation B2, conduit shall not be provided if cabling on that side of the sign structure is not required per Electrical and/or ITS plans. At Foundation A2, conduit shall always be provided. If cabling in the conduit at Foundation A2 is not required per Electrical and/or ITS plans, the end of conduit in the ground shall be capped for future use with a manufactured water-tight cap.

② Foundation A2 allowed only when foundation is outside clear zone or is protected by guardrail or barrier.

③ Foundation B2 is required when the foundation is located in a median, within the clear zone, and is not protected by guardrail or barrier. Foundation B2 requires adjacent Roadway Median Barrier to transition to match the ends of the cap. See Roadway Plans for additional information.

④ C401 Ties - 2 Spaces @ 9"

APPROX. QUANTITIES FOR FOUNDATION A2 (FOR INFORMATION ONLY)

⑤ CLASS S CONCRETE (CU. YDS.)	⑥ REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)	DRILLED SHAFT (30" DIA.) (LIN. FT.)	CROSSHOLE SONIC LOGGING (30" DIA.) (EACH)
6.50	970	14	"G"	1

APPROX. QUANTITIES FOR FOUNDATION B2 (FOR INFORMATION ONLY)

⑤ CLASS S CONCRETE (CU. YDS.)	⑥ REINFORCING STEEL (LBS.)	DRILLED SHAFT (30" DIA.) (LIN. FT.)	CROSSHOLE SONIC LOGGING (30" DIA.) (EACH)
6.50	970	"G"	1

⑤ Does not include Class S Concrete for Drilled Shafts

⑥ Does not include D401 and D801 Bars in Drilled Shafts

⑦ Tabulated SPT N60 values are raw SPT N values corrected by SPT hammer efficiency and represent average values along the plan shaft penetration. If the SPT N60 values in the foundation soils within 2 shaft diameters below the plan tip elevation are less than the average SPT N60 values along the plan shaft penetration, the Engineer shall be contacted.

⑧ If final drilled shaft length is not shown in "TABLE OF VARIABLES" due to the presence of rock or other factors, variables "D" through "G" shall be determined as follows:

"D" = (Shaft Length in Ft. - 0.5) / 0.5
"E" = Shaft Length in Ft. x 4
"F" = Shaft Length + 2'-5"
"G" = Shaft Length x 2

⑨ If "F" exceeds 60'-0", a lap splice is required for each D801 bar at the midpoint of the drilled shaft. Min. lap splice length for D801 bar = 3'-6". Length shown in table does not include the additional length required for a lap splice.

DRILLED SHAFT NOTES (FOUNDATIONS A2 & B2)

Drilled shafts shall conform to Special Provision "DRILLED SHAFT FOUNDATIONS FOR STEEL SIGN STRUCTURES". Drilled shafts will not be paid for directly but shall be considered subsidiary to the unit price bid for "STEEL OVERHEAD SIGN STRUCTURE (_)". Temporary casing may be required. Unless approved by the Engineer, permanent steel casing shall not be used.

Crosshole Sonic Logging (CSL) shall be performed on one drilled shaft at each foundation and as directed by the Engineer. Testing shall be performed in accordance with Special Provision "NONDESTRUCTIVE TESTING OF DRILLED SHAFTS FOR STEEL SIGN STRUCTURES".

Concrete and reinforcing steel placed in drilled shafts will not be paid for directly but shall be considered subsidiary to the unit price bid for "STEEL OVERHEAD SIGN STRUCTURE (_)". No additional payment shall be made for spacers, additional splices or bracing needed for assembly, shipping, handling or erecting.

Concrete in drilled shafts shall be Class "S" as modified by Special Provision "DRILLED SHAFT FOUNDATIONS FOR STEEL SIGN STRUCTURES".

Drilled shaft lengths shall be determined based on the results of exploratory borings, which shall be performed by the Contractor prior to shaft excavation.

If competent rock is not encountered in the exploratory boring, the Standard Penetration Test (SPT) blow count corrected by the hammer efficiency, N60, shall be used to determine shaft lengths. See "TABLE OF VARIABLES".

If competent rock is encountered in the exploratory boring within 25'-0" of planned top of drilled shaft, the shafts shall be founded a minimum of 3'-0" into rock and have a minimum length of 25'-0".

If competent rock is encountered in the exploratory boring below 25'-0" from planned top of drilled shaft, the shafts shall be founded a minimum of 3'-0" into rock or to the depth based on the SPT N60 value and associated shaft length in the "TABLE OF VARIABLES", whichever is shallower.

Testing results shall be submitted to the Engineer for review. Final drilled shaft lengths shall be approved by the Engineer prior to construction.

The cost of performing exploratory borings and in-situ strength testing shall be included in the item "STEEL OVERHEAD SIGN STRUCTURE (_)".

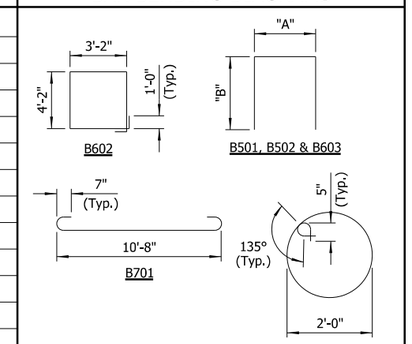
TABLE OF VARIABLES ⑧

SPT N60 ⑦ (blows/ft.)	Min. Depth of Exploratory Boring	Drilled Shaft Length, "C"	"D"	"E"	"F" ⑨	"G"
<5	-	Contact Engineer	-	-	-	-
5 To 7	75'-0"	70'-0"	139	280	72'-5"	140'-0"
7 To 9	63'-0"	58'-0"	115	232	60'-5"	116'-0"
9 To 11	47'-0"	42'-0"	83	168	44'-5"	84'-0"
11 To 13	37'-0"	32'-0"	63	128	34'-5"	64'-0"
>13	31'-0"	26'-0"	51	104	28'-5"	52'-0"

BAR LIST - FOUNDATION A2 OR B2

MARK	NO. REQ'D	LENGTH	"A"	"B"	P.D.
B501	6	5'-10"	3'-0"	1'-6"	2½"
B502	6	6'-10"	4'-0"	1'-6"	2½"
B601	14	10'-8"			Str.
B602	13	15'-10"			4½"
B603	4	11'-2"	3'-2"	4'-2"	4½"
B701	10	12'-4"			5¼"
C401	6	7'-4"			3"
D401	"E"	7'-4"			3"
D801	20	"F"			Str.

BAR BENDING DIAGRAMS



NOTES:
Dimensions of bars are out-to-out.

Number of bars shown is for one Foundation A2 or one Foundation B2.

LEGEND

U.N.O. = Unless Noted Otherwise
EF = Each Face

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

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SHEET 6 OF 6
STANDARD DETAILS OF 40' TO 54'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CWT DATE: JAN. 2023 FILENAME: b55092f.dgn
CHECKED BY: ABH DATE: JAN. 2023 SCALE: As Shown
DESIGNED BY: STD. DATE: -

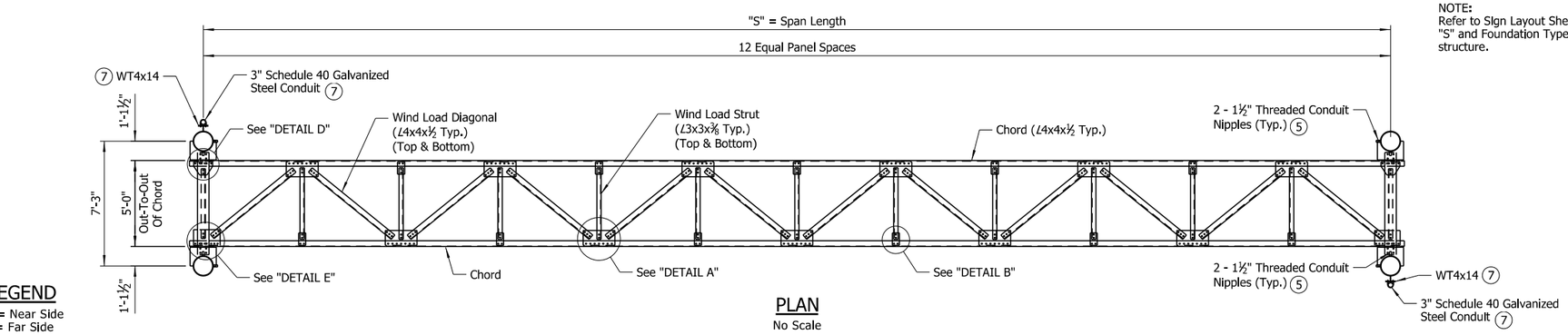
Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55092F

6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (55' TO 69') - 55093A				

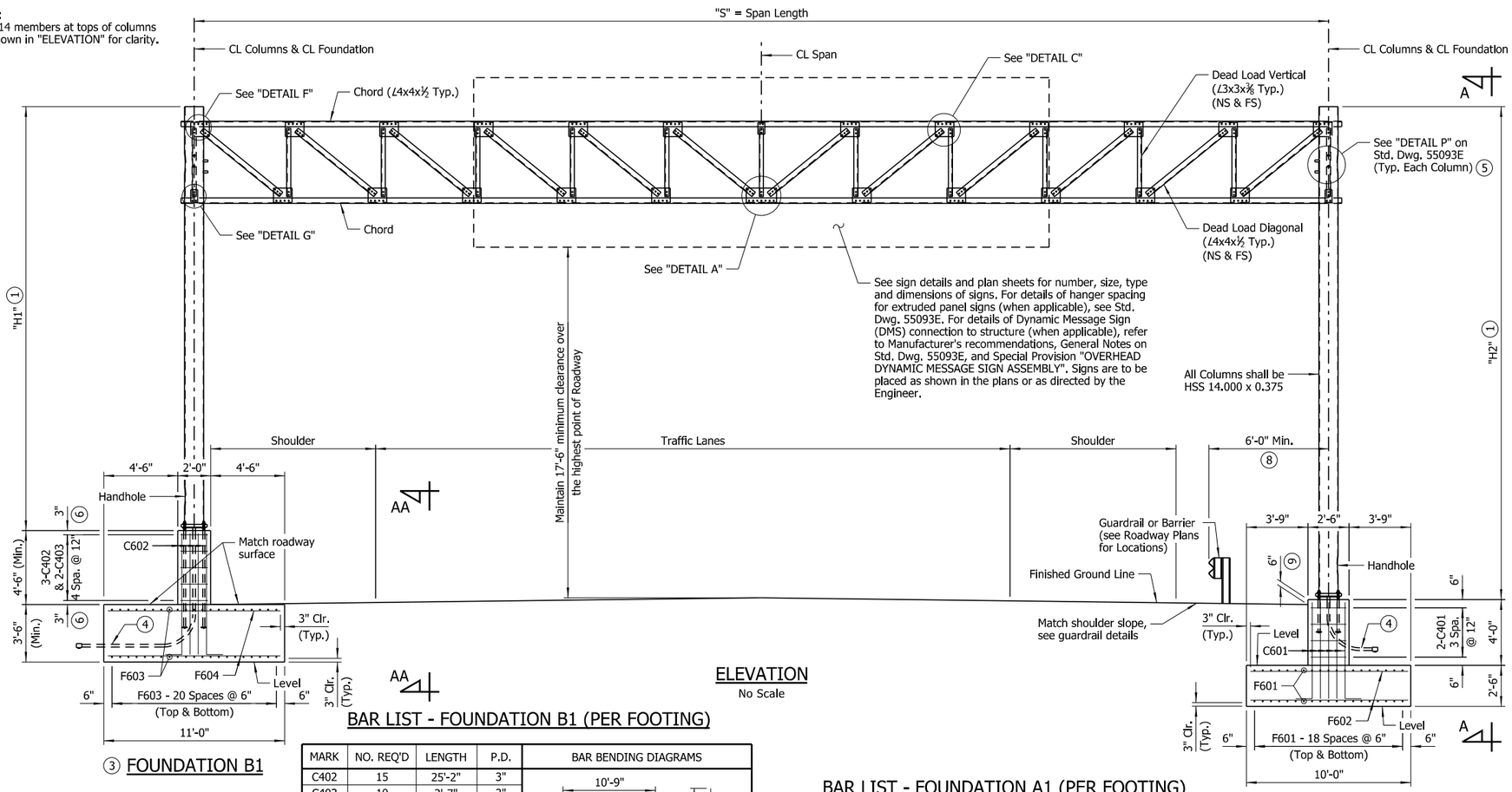
NOTE:
Refer to Sign Layout Sheets for Span Length "S" and Foundation Types required for each structure.



PLAN
No Scale

LEGEND
NS = Near Side
FS = Far Side

NOTE:
WT4x14 members at tops of columns not shown in "ELEVATION" for clarity.



③ FOUNDATION B1

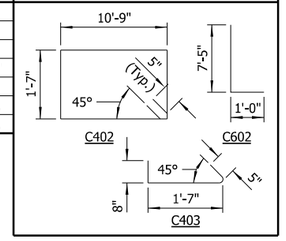
ELEVATION
No Scale

② FOUNDATION A1

BAR LIST - FOUNDATION B1 (PER FOOTING)

MARK	NO. REQ'D	LENGTH	P.D.
C402	15	25'-2"	3"
C403	10	2'-7"	3"
C602	104	8'-3"	4½"
F603	42	24'-6"	Str.
F604	98	10'-6"	Str.

BAR BENDING DIAGRAMS

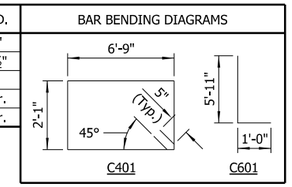


NOTE:
Dimensions of bars are out-to-out.

BAR LIST - FOUNDATION A1 (PER FOOTING)

MARK	NO. REQ'D	LENGTH	P.D.
C401	8	18'-2"	3"
C601	46	6'-9"	4½"
F601	38	20'-6"	Str.
F602	82	9'-6"	Str.

BAR BENDING DIAGRAMS



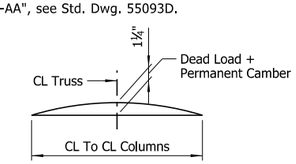
NOTE:
Dimensions of bars are out-to-out.

1. The Contractor shall make field measurements to determine the column heights "H1" and "H2" that are required to maintain the minimum vertical clearance with the centerline of the sign located at the centerline of the truss. These column heights shall be shown on the shop drawings with a note stating that the Contractor has made the required field measurements. If the structure height ("H1" or "H2") exceeds 30'-0", contact the Engineer. The Contractor shall also verify that the variable span length (55'-0" to 69'-0") is sufficient to meet the minimum clearances and to fit the new structure to the existing and/or proposed conditions.
2. Foundation A1 allowed only when foundation is outside clear zone or is protected by guardrail or barrier. For alternate drilled shaft foundation (Foundation A2), see Std. Dwg. 55093F.
3. Foundation B1 is required when the foundation is located in a median, within the clear zone, and is not protected by guardrail or barrier. Foundation B1 requires adjacent Roadway Median Barrier to transition to match the ends of the pedestal. For alternate drilled shaft foundation (Foundation B2), see Std. Dwg. 55093F.
4. 2" Non-Metallic Conduit (Schedule 80) with 16" Min. Bend Radius (2 Conduits per Column). At Foundation B1, conduit shall not be provided if cabling on that side of the sign structure is not required per Electrical and/or ITS plans. At Foundation A1, conduit shall always be provided. If cabling in the conduit at Foundation A1 is not required per Electrical and/or ITS plans, the end of conduit in the ground shall be capped for future use with a manufactured water-tight cap.
5. Threaded Conduit Nipples shall be fitted with standard plugs until conduit is installed.
6. Minor adjustments are allowed to maintain C402 and C403 12" spacing for foundations located in longitudinal grades.
7. See "SECTION U-U" on Std. Dwg. 55093C. WT4x14 always required. 3" Conduit and Clamping U-Bolts only required when necessary to support ITS equipment or as directed by the Engineer. See ITS Plans.
8. Minimum dimension when guardrail is present. See Sign Layout Sheets and/or ITS Plans for actual dimension for each structure.
9. Dimension from top of pedestal to Finished Ground Line shall be maintained along the perimeter of the pedestal.

NOTES:
For "VIEW A-A", see Std. Dwg. 55093B.

For "DETAIL A" thru "DETAIL G", see Std. Dwg. 55093C.

For "VIEW AA-AA", see Std. Dwg. 55093D.



TRUSS CAMBER DIAGRAM
No Scale

APPROXIMATE QUANTITIES FOR FOUNDATION A1 PER FOOTING (FOR INFORMATION ONLY)

CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
23.20	2,910	70

APPROXIMATE QUANTITIES FOR FOUNDATION B1 PER FOOTING (FOR INFORMATION ONLY)

CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
44.00	4,650	51

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 1 OF 6
STANDARD DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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DRAWN BY:	CWT	DATE:	NOV. 2022	FILENAME:	b55093a.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

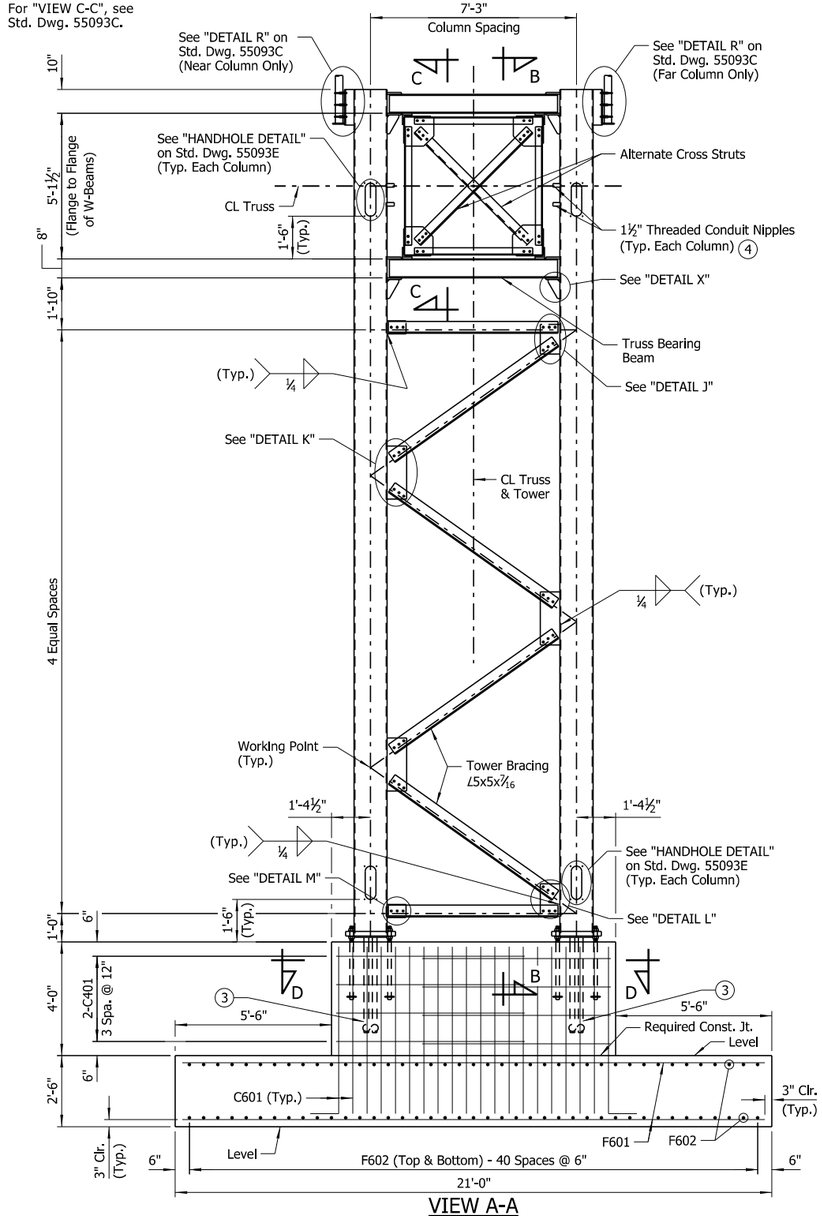
Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55093A

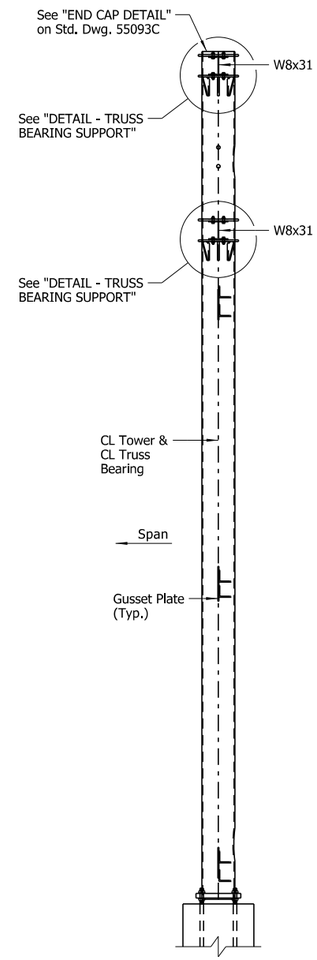
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (55' TO 69') - 55093B				

NOTE:
For "VIEW C-C", see Std. Dwg. 55093C.

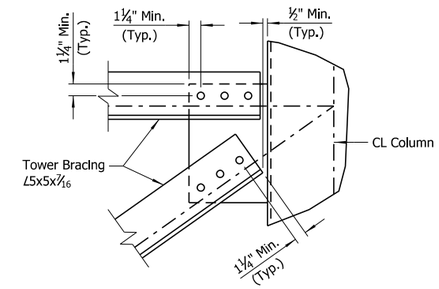


VIEW A-A
(Foundation A1)
No Scale

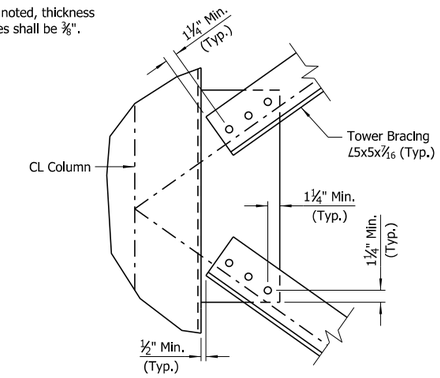


VIEW B-B
No Scale

NOTE:
Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".



DETAIL J
No Scale



DETAIL K
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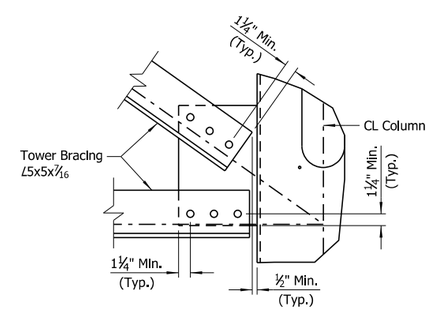
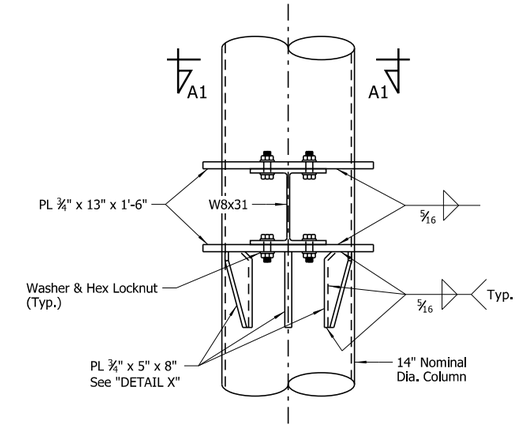
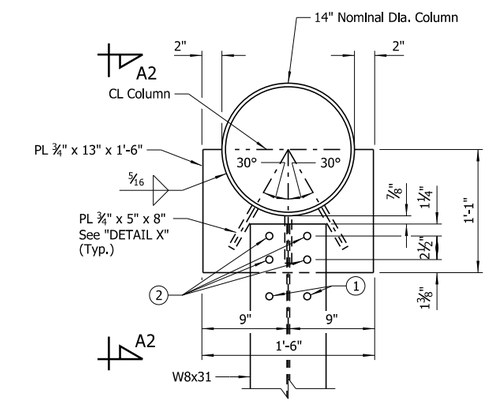


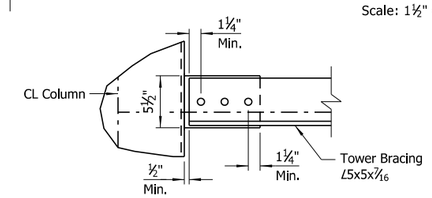
DETAIL L
No Scale



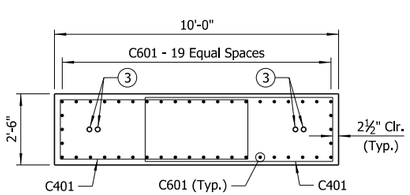
DETAIL - TRUSS BEARING SUPPORT
Scale: 1½" = 1'-0"



VIEW A1-A1
Scale: 1½" = 1'-0"

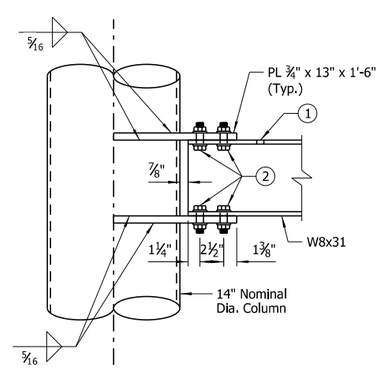


DETAIL M
No Scale

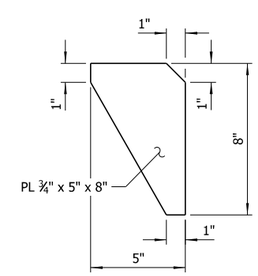


SECTION D-D
Scale: ⅜" = 1'-0"

1. Bolts shall be ¾"ø. Provide 13/16" x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Provide 13/16"ø holes in ¾" shim plate and top or bottom beam flanges as required.
2. Bolts shall be ¾"ø. Provide 13/16"ø holes at top and bottom beam flanges and connection plates.
3. 2" Non-Metallic Conduit (Schedule 80) (2 Conduits per Column). An insulated bushing shall be installed at the top end of each conduit.
4. Threaded Conduit Nipples shall be fitted with standard plugs until conduit is installed.



VIEW A2-A2
Scale: 1½" = 1'-0"
(¾" x 5" x 8" Plate not shown for clarity)



DETAIL X
Scale: 3" = 1'-0"

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 2 OF 6
STANDARD DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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DRAWN BY:	CWT	DATE:	NOV. 2022	FILENAME:	b55093b.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

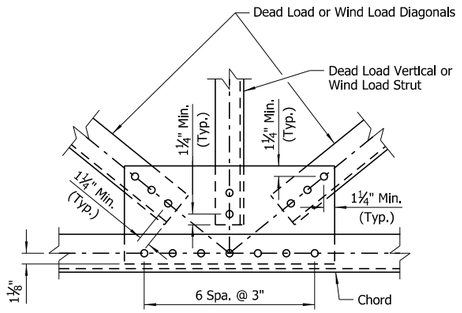
Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55093B

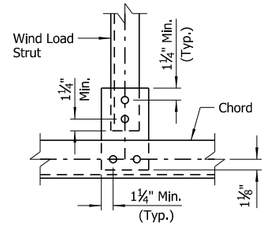
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (55' TO 69') - 55093C				

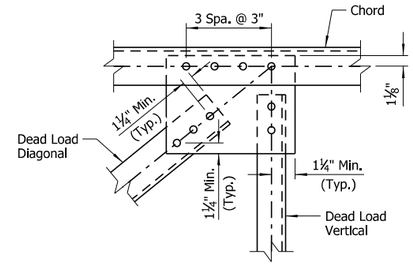
NOTE:
Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".



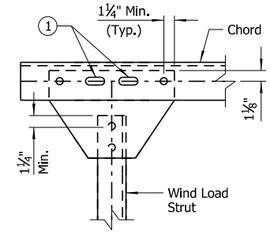
DETAIL A
No Scale



DETAIL B
No Scale



DETAIL C
No Scale



DETAIL D
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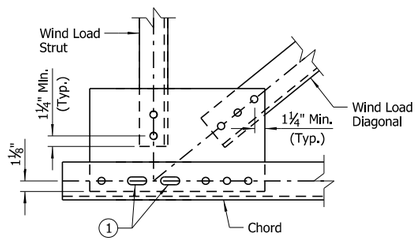

DETAIL E
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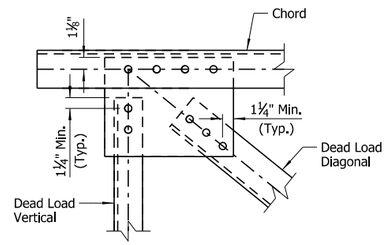
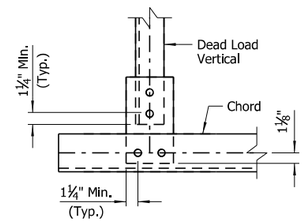


DETAIL F
No Scale



DETAIL G
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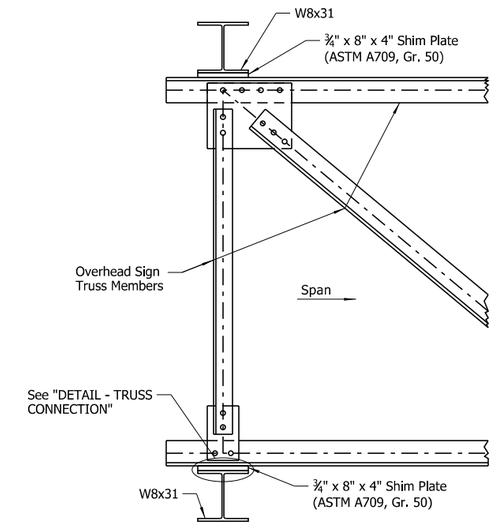
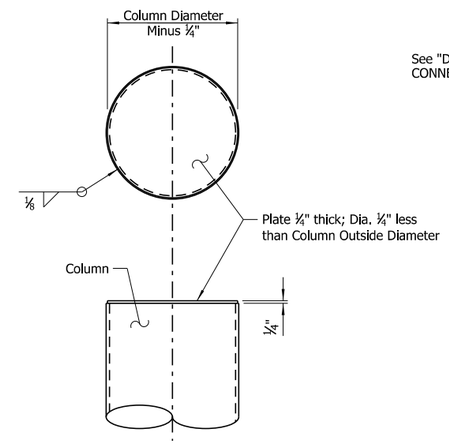
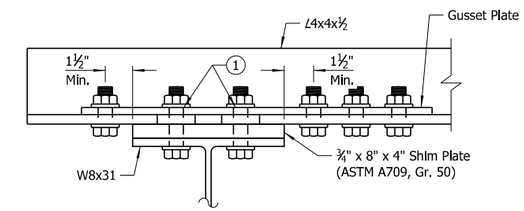


VIEW C-C
No Scale



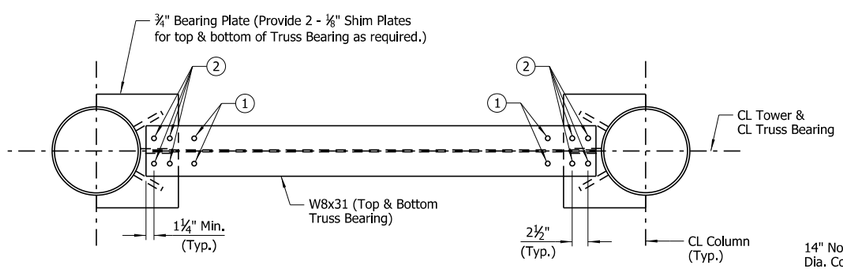
END CAP DETAIL
Scale: 1½" = 1'-0"



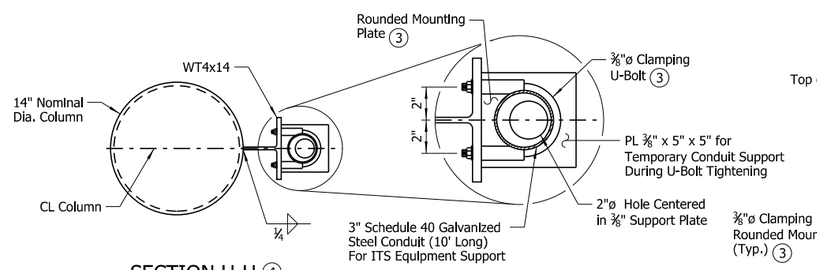
DETAIL - TRUSS CONNECTION
No Scale

① Bolts shall be ¾"ø. Provide 13/16" x 2" slotted holes in gusset plate and chord angle. Clearance between end of slot and adjacent bolt hole shall be no less than 1½". Provide 13/16"ø holes in ¾" shim plate and top or bottom beam flanges as required. Use plate washer on gusset plate side.

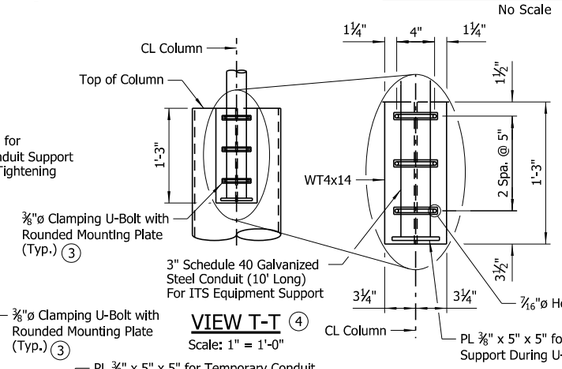
② Bolts shall be ¾"ø. Provide 13/16"ø holes at top and bottom beam flanges and connection plates.



PLAN AT TRUSS BEARING
Scale: 1" = 1'-0"



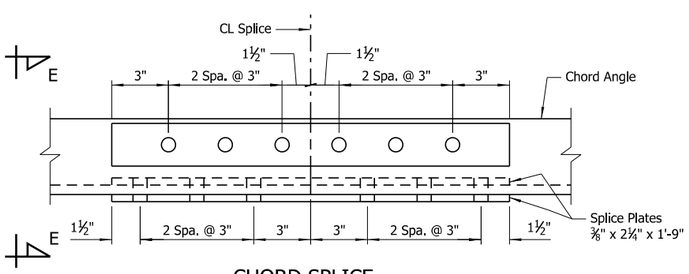
SECTION U-U ④
Scale: 1½" = 1'-0"



VIEW T-T ④
Scale: 1" = 1'-0"

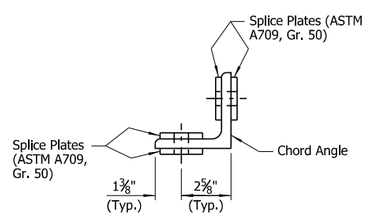
③ When required per plans to support ITS equipment, or as directed by the Engineer, Clamping U-Bolt with Rounded Mounting Plate Assembly product shall be included in shop drawings for approval. Assembly shall be galvanized and shall meet the requirements of ASTM A36 at a minimum. Install per Manufacturer's instructions.

④ WT4x14 with ¼" Temporary Support Plate always required. 3" Conduit and Clamping U-Bolts only required when necessary to support ITS equipment or as directed by the Engineer. See ITS Plans.

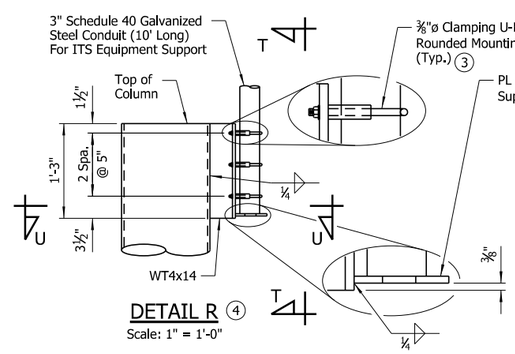


CHORD SPLICE
Scale: 3" = 1'-0"

NOTE:
Chord angles may be spliced in convenient lengths for galvanizing and sign placement.



VIEW E-E
Scale: 3" = 1'-0"



DETAIL R ④
Scale: 1" = 1'-0"

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 3 OF 6
STANDARD DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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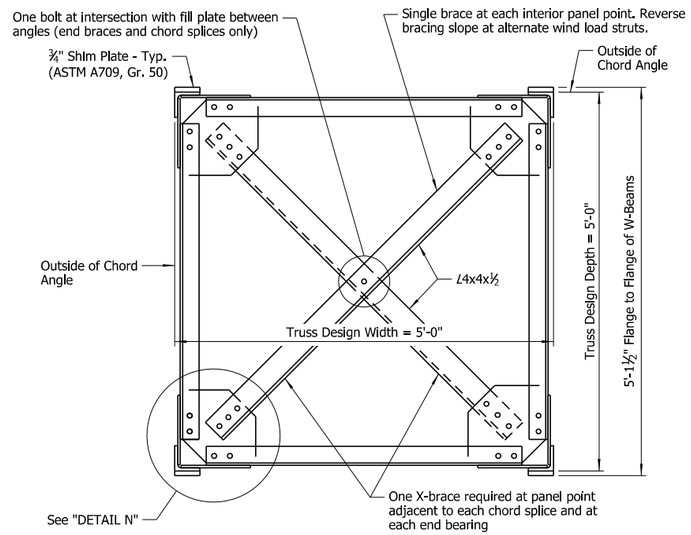
DRAWN BY:	CWT	DATE:	NOV. 2022	FILENAME:	b55093c.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55093C

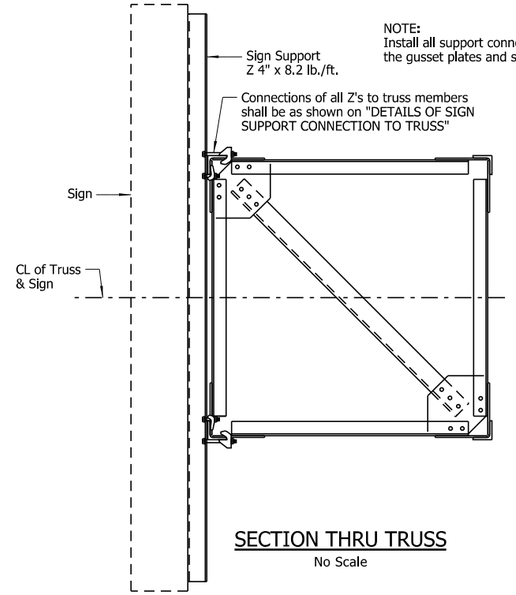
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (55' TO 69') - 55093D				



TRUSS SECTION

Scale: 1" = 1'-0"

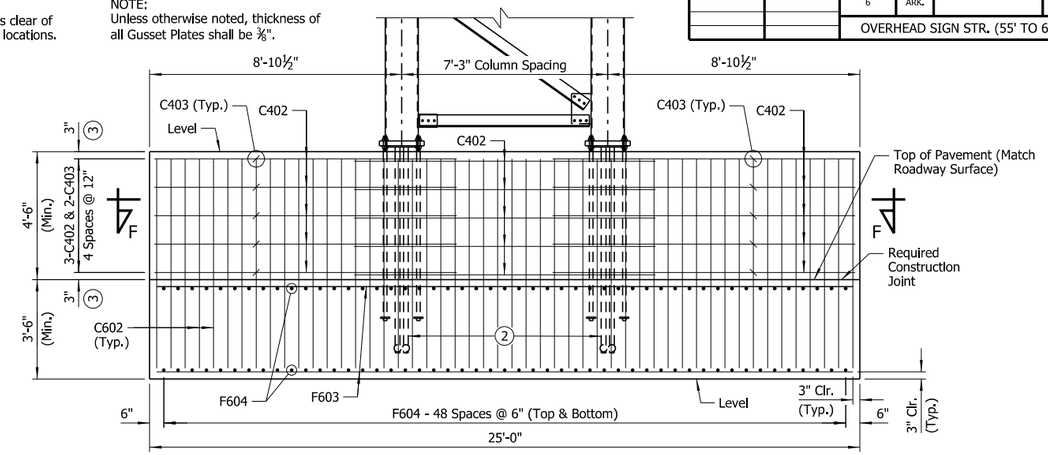


NOTE:
Install all support connectors clear of the gusset plates and splice locations.

SECTION THRU TRUSS

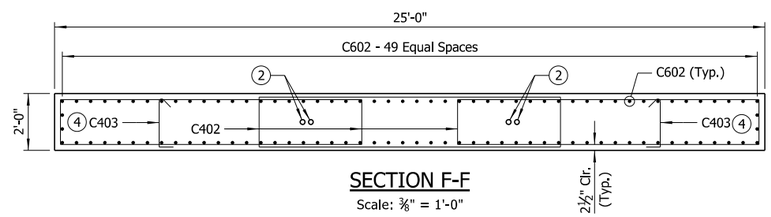
No Scale

NOTE:
Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".



VIEW AA-AA

(Foundation B1)
Scale: ⅜" = 1'-0"



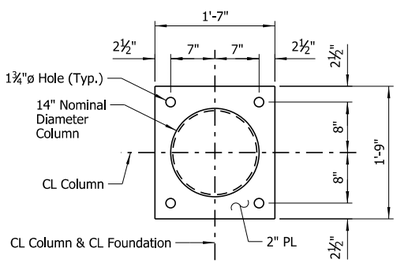
SECTION F-F

Scale: ⅜" = 1'-0"

② 2" Non-Metallic Conduit (Schedule 80) (2 Conduits per Column). An insulated bushing shall be installed at the top end of each conduit. Conduit shall not be provided if cabling at Foundation B1 is not required per Electrical and/or ITS plans.

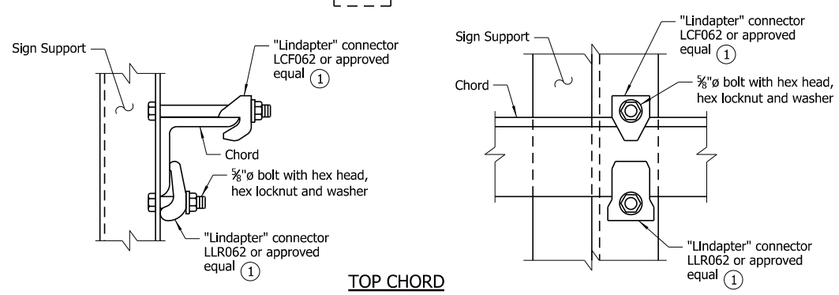
③ Minor adjustments are allowed to maintain C402 and C403 12" spacing for foundations located in longitudinal grades.

④ Alternate C403 ties end for end at each layer of reinforcing.

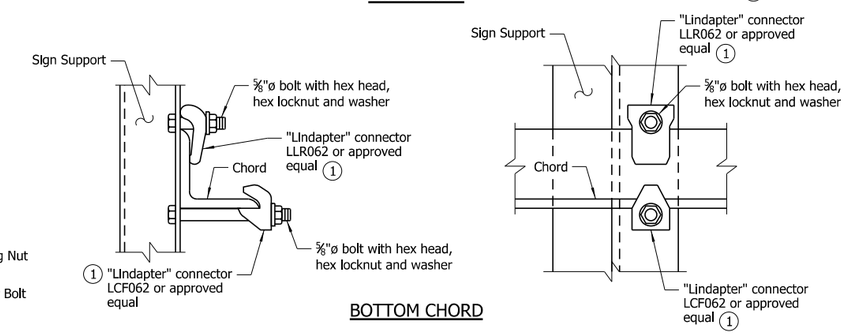


PLAN - COLUMN BASE

Scale: 1" = 1'-0"



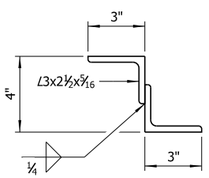
TOP CHORD



BOTTOM CHORD

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS

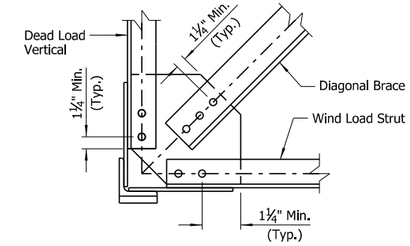
No Scale



NOTE:
Structural Z Support may be fabricated from angles as shown.

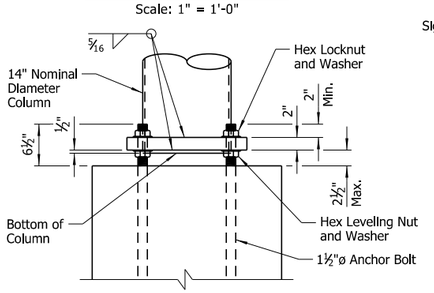
DETAILS OF ALTERNATE Z SUPPORT

No Scale



DETAIL N

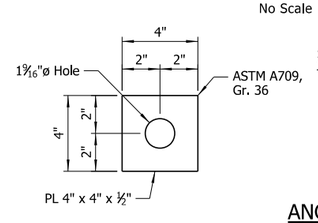
Scale: 1½" = 1'-0"

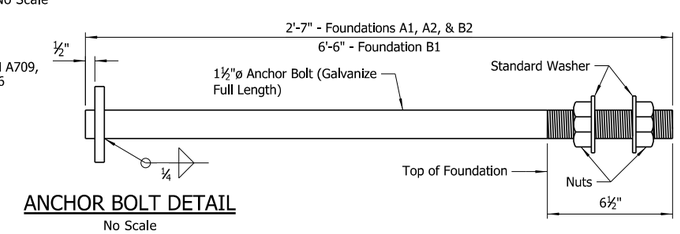


NOTE:
Diameter of hole in base plate to be ⅛" larger than column diameter.

ELEVATION - COLUMN BASE

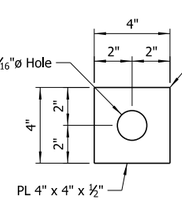
Scale: 1" = 1'-0"

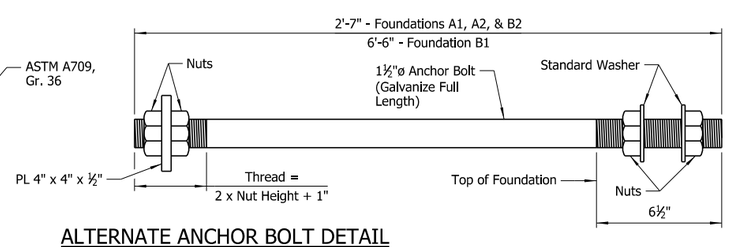




ANCHOR BOLT DETAIL

No Scale





ALTERNATE ANCHOR BOLT DETAIL

No Scale

① All "Lindapter" connectors or approved equal shall be installed according to Manufacturer's recommendations. All connectors, bolts, nuts and washers shall be galvanized.

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 4 OF 6
STANDARD DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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DRAWN BY:	CWT	DATE:	NOV. 2022	FILENAME:	b55093d.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55093D

6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (55' TO 69') - 55093E				

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014 Edition, with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, First Edition, 2015 with current interim revisions.

Basic Wind Speed = 120 mph
Fatigue Category: I

This structure is approved for a maximum sign area equal to 75% of the span length times a sign height of 15 feet. This structure is approved for a maximum sign weight (total of all signs and hangers) of 5,025 lbs. Use of additional sign area or a heavier sign must be approved by the Engineer. If the structure height ("H1" or "H2") exceeds 30'-0", contact the Engineer.

FOUNDATION MATERIALS AND STRENGTHS:
Class S Concrete f'c = 3,500 psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A) fy = 60,000 psi

Spread footings for the structure have been designed assuming a factored bearing resistance of 2.0 ksf. Contractor shall be responsible for evaluating and verifying that the foundation soils are adequate to achieve the assumed factored bearing capacity, utilizing SPT (Standard Penetration Test), CPT (Cone Penetration Test), DCP (Dynamic Cone Penetration) test, or other suitable means, prior to or after footing excavation, whichever is appropriate. If the foundation soils are verified to be adequate, then the footing shall be constructed in accordance with the planned dimensions. Otherwise, the Design Engineer shall be contacted. Costs for foundation soil evaluation and verification shall be included in the item "STEEL OVERHEAD SIGN STRUCTURE (_)".

Structural steel sign support members shall comply with the following specifications:

Angles:	ASTM A709, Gr. 36 (Fy = 36,000 psi)
Plate, W-Section:	ASTM A709, Gr. 50 (Fy = 50,000 psi)
(1) Pipe:	ASTM A139, Gr. C, straight-seam welded (Fy = 42,000 psi), ASTM A500, Gr. B (Fy = 42,000 psi), ASTM A501, Gr. B (Fy = 50,000 psi)
Z-Shapes:	ASTM A709, Grade 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM F3125, Grade A325, Type 1
Locknuts - Approved Type:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers:	ASTM F436
Nuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H

The Contractor shall make check measurements in the field and make any adjustments necessary to meet the required clearances and to fit the new structure to the existing and/or proposed conditions.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All steel shall be galvanized according to Subsection 807.19. Steel completely encased in concrete may not be galvanized. Galvanized coating damaged during transport, handling or erection shall be field repaired in accordance with Subsection 807.88.

All main load carrying tension members greater than ½" in thickness shall conform to the requirements of the Longitudinal Charpy V-Notch test specified for Zone 1 minimum service temperature. This work and materials shall be paid for in accordance with Special Provision "STEEL SIGN STRUCTURES".

Field splices shall be located in order to avoid sign panel connections. There shall be a maximum of two field splices, and they shall be spaced a minimum of 15 feet apart.

Truss field sections shall be shop assembled. Entire truss shall be fully assembled and lifted into place as one unit on to tower supports. All truss member connections shall be bolted connections.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26 except welding of tubular sections shall conform to AWS D1.1 Structural Welding Code.

No circumferential butt welds will be allowed in any pipe sections.

All fillet welds of critical members shall be tested according to AWS D1.1 Structural Welding Code - Steel using the magnetic particle method. Critical welds shall include: column to base plate and truss bottom support to column.

Connections shall be bolted with high-strength bolts. Unless otherwise noted, bolts shall be ¾" diameter and open holes shall be 13/16" diameter. Bolt spacing shall be 2½" for ¾" diameter bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

All truss frame bolts shall comply with ASTM F3125, Grade A325, Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM F3125, Grade A325, Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

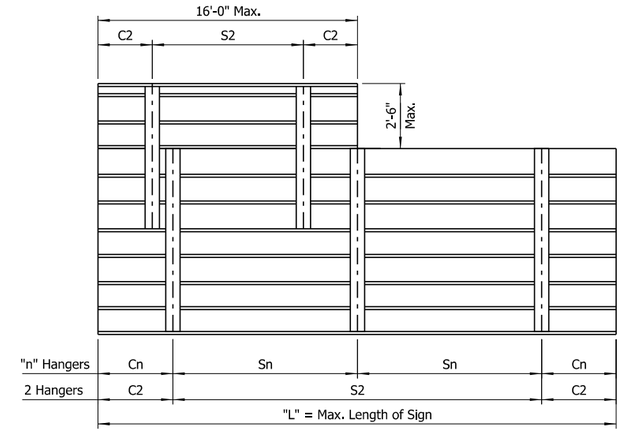
Locknuts shall be equipped with nylon locking inserts or other approved type locking system. Locknuts shall be installed according to Manufacturer's recommendations.

Anchor bolts shall comply with AASHTO M 314, Grade 55, including Supplementary Requirement S1, and shall be galvanized according to Subsection 807.07. Nuts and washers for anchor bolts shall be furnished and galvanized in accordance with Subsection 807.07. Anchor bolts shall be pretensioned in accordance with Special Provision "STEEL SIGN STRUCTURES".

Shoring may be required to protect existing shoulders or other elements during excavation. Any shoring required shall not be paid for directly, but shall be considered incidental to the item "STEEL OVERHEAD SIGN STRUCTURE (_)". The excavations for the footings shall be backfilled before the structure is attached to the foundations.

DYNAMIC MESSAGE SIGN (WHEN APPLICABLE): The Dynamic Message Sign (DMS) supplier shall be responsible for the attachment method and materials used to attach the DMS and its accessories to the structure. The method of attachment shall not facilitate any corrosion of the structure. For additional information regarding the DMS, see Special Provision "OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY".

For location of each 55' to 69' overhead sign structure to be used, refer to ITS and/or Sign Plans.



NOTE:
See sign details and plan sheets for number, size and dimensions of signs.

HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

No Scale

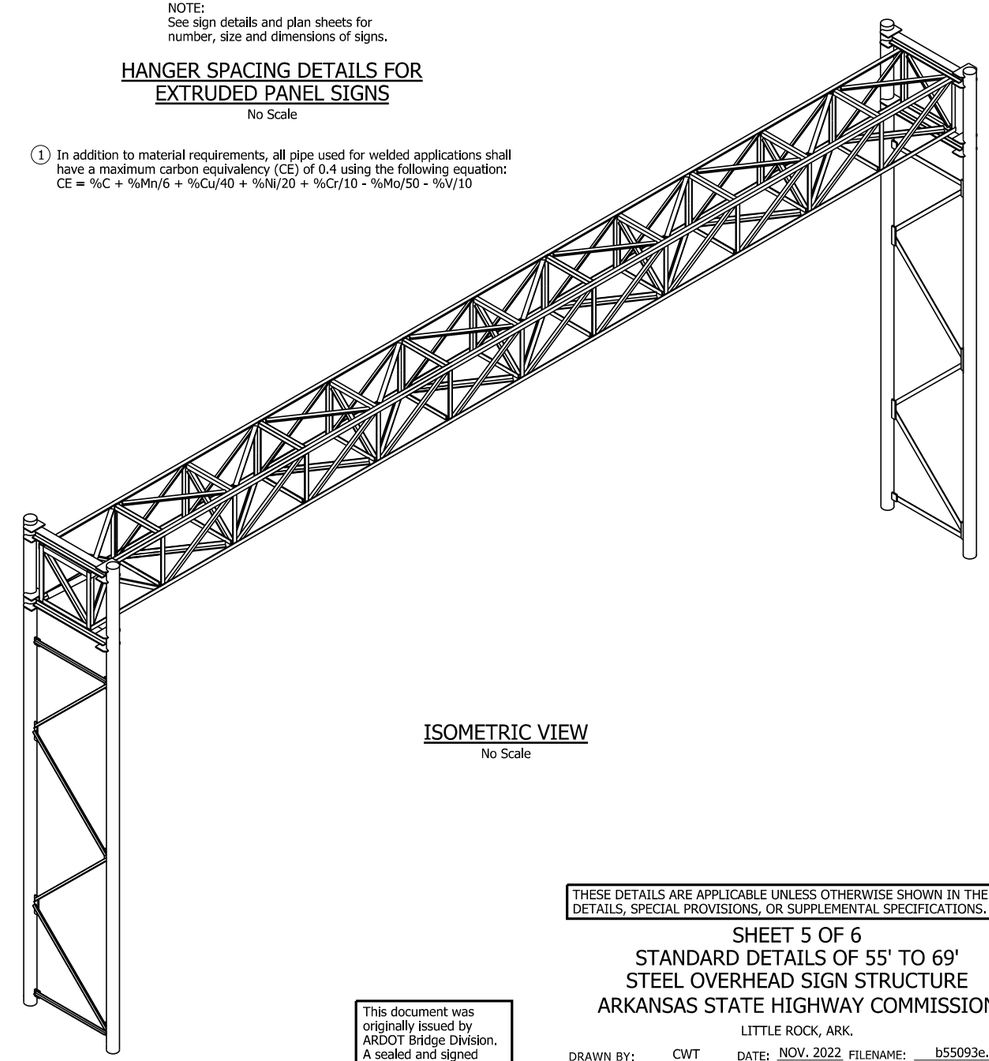
HANGER VARIABLES

(For Extruded Panel Signs)

Max. Length of Sign = "L"	"n" Hangers	Cantilever Length "Cn"	Hanger Spacing "Sn"
15'-0"	2 Hangers	0.21 x "L"	0.58 x "L"
30'-0"	3 Hangers	0.145 x "L"	0.355 x "L"
45'-0"	4 Hangers	0.107 x "L"	0.262 x "L"

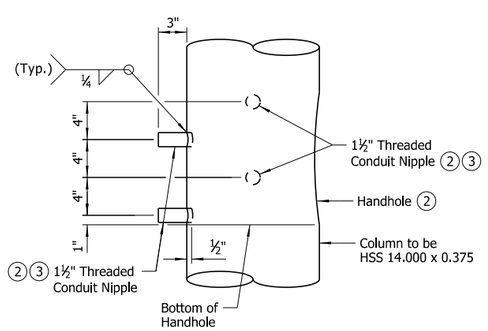
NOTE:
Hanger spacing and cantilever length shall be rounded to the nearest inch.

(1) In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:
CE = %C + %Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10



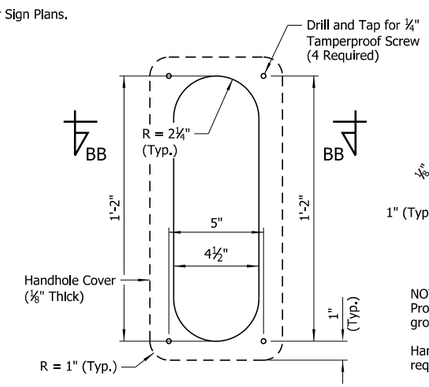
ISOMETRIC VIEW

No Scale



DETAIL P

Scale: 1½" = 1'-0"

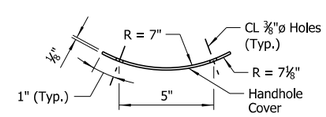


HANDHOLE DETAIL (2)

Scale: 3" = 1'-0"

(2) See details on Std. Dwgs. 55093A & 55093B for location and orientation of handholes and threaded conduit nipples.

(3) Threaded conduit nipples shall be fitted with standard plugs until conduit is installed.



SECTION BB-BB

Scale: 3" = 1'-0"

NOTE:
Provide handhole covers with chain, waterproof grommet, and tamperproof screws.

Handhole covers shall be galvanized and meet the requirements of ASTM A36 at a minimum.

Tamperproof screws shall be galvanized and meet the requirements of ANSI/ASME B18.6.3.

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SHEET 5 OF 6
STANDARD DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

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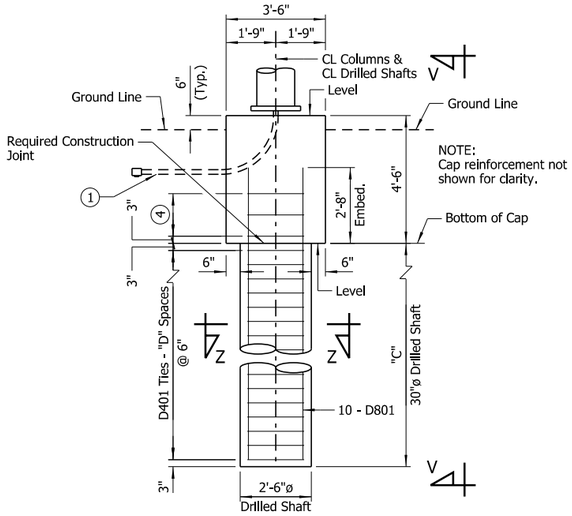
DRAWN BY:	CWT	DATE:	NOV. 2022	FILENAME:	b55093e.dgn
CHECKED BY:	ABH	DATE:	FEB. 2023	SCALE:	As Shown
DESIGNED BY:	STD.	DATE:	-		

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55093E

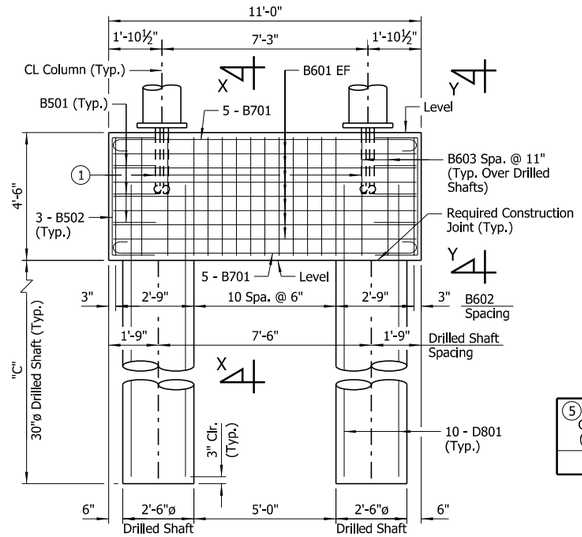
6/17/2026

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		OVERHEAD SIGN STR. (55' TO 69') - 55093F				



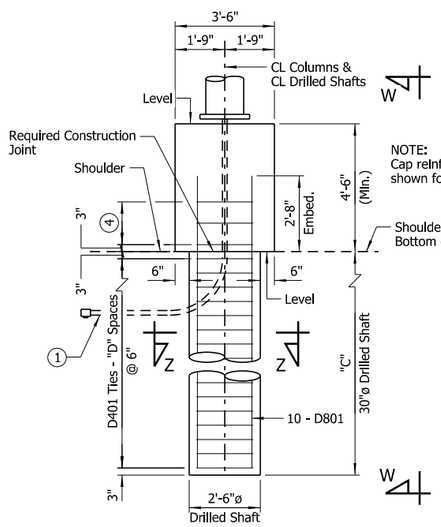
ELEVATION - FOUNDATION A2 (2)

Scale: ⅜" = 1'-0"



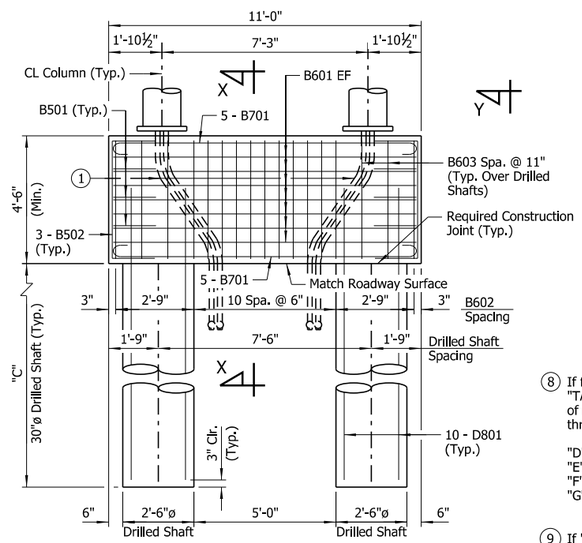
VIEW V-V

Scale: ⅜" = 1'-0"



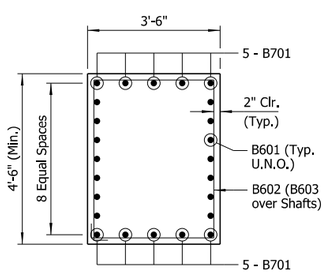
ELEVATION - FOUNDATION B2 (3)

Scale: ⅜" = 1'-0"



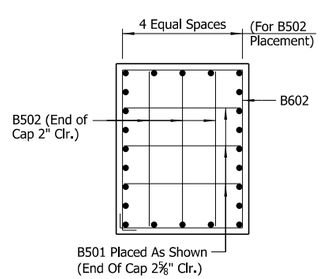
VIEW W-W

Scale: ⅜" = 1'-0"



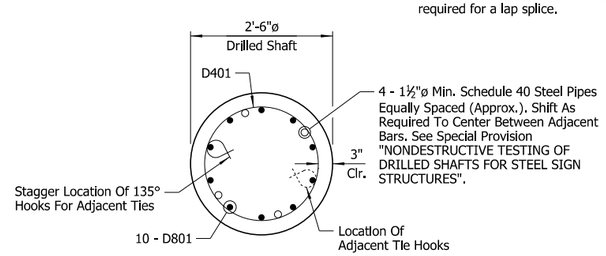
SECTION X-X

Scale: ½" = 1'-0"



VIEW Y-Y

Scale: ½" = 1'-0"



SECTION Z-Z

Scale: ¾" = 1'-0"

(1) 2" Non-Metallic Conduit (Schedule 80) with 16" Min. Bend Radius (2 Conduits per Column). An insulated bushing shall be installed at the top end of each conduit. At Foundation B2, conduit shall not be provided if cabling on that side of the sign structure is not required per Electrical and/or ITS plans. At Foundation A2, conduit shall always be provided. If cabling in the conduit at Foundation A2 is not required per Electrical and/or ITS plans, the end of conduit in the ground shall be capped for future use with a manufactured water-tight cap.

(2) Foundation A2 allowed only when foundation is outside clear zone or is protected by guardrail or barrier.

(3) Foundation B2 is required when the foundation is located in a median, within the clear zone, and is not protected by guardrail or barrier. Foundation B2 requires adjacent Roadway Median Barrier to transition to match the ends of the cap. See Roadway Plans for additional information.

(4) C401 Ties - 2 Spaces @ 9"

APPROX. QUANTITIES FOR FOUNDATION A2 (FOR INFORMATION ONLY)

(5) CLASS S CONCRETE (CU. YDS.)	(6) REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)	DRILLED SHAFT (30" DIA.) (LIN. FT.)	CROSSHOLE SONIC LOGGING (30" DIA.) (EACH)
6.50	970	14	"G"	1

APPROX. QUANTITIES FOR FOUNDATION B2 (FOR INFORMATION ONLY)

(5) CLASS S CONCRETE (CU. YDS.)	(6) REINFORCING STEEL (LBS.)	DRILLED SHAFT (30" DIA.) (LIN. FT.)	CROSSHOLE SONIC LOGGING (30" DIA.) (EACH)
6.50	970	"G"	1

(5) Does not include Class S Concrete for Drilled Shafts

(6) Does not include D401 and D801 Bars in Drilled Shafts

(7) Tabulated SPT N60 values are raw SPT N values corrected by SPT hammer efficiency and represent average values along the plan shaft penetration. If the SPT N60 values in the foundation soils within 2 shaft diameters below the plan tip elevation are less than the average SPT N60 values along the plan shaft penetration, the Engineer shall be contacted.

(8) If final drilled shaft length is not shown in "TABLE OF VARIABLES" due to the presence of rock or other factors, variables "D" through "G" shall be determined as follows:

"D" = (Shaft Length in Ft. - 0.5) / 0.5
"E" = Shaft Length in Ft. x 4
"F" = Shaft Length + 2'-5"
"G" = Shaft Length x 2

(9) If "F" exceeds 60'-0", a lap splice is required for each D801 bar at the midpoint of the drilled shaft. Min. lap splice length for D801 bar = 3'-6". Length shown in table does not include the additional length required for a lap splice.

DRILLED SHAFT NOTES (FOUNDATIONS A2 & B2)

Drilled shafts shall conform to Special Provision "DRILLED SHAFT FOUNDATIONS FOR STEEL SIGN STRUCTURES". Drilled shafts will not be paid for directly but shall be considered subsidiary to the unit price bid for "STEEL OVERHEAD SIGN STRUCTURE (_)". Temporary casing may be required. Unless approved by the Engineer, permanent steel casing shall not be used.

Crosshole Sonic Logging (CSL) shall be performed on one drilled shaft at each foundation and as directed by the Engineer. Testing shall be performed in accordance with Special Provision "NONDESTRUCTIVE TESTING OF DRILLED SHAFTS FOR STEEL SIGN STRUCTURES".

Concrete and reinforcing steel placed in drilled shafts will not be paid for directly but shall be considered subsidiary to the unit price bid for "STEEL OVERHEAD SIGN STRUCTURE (_)". No additional payment shall be made for spacers, additional splices or bracing needed for assembly, shipping, handling or erecting.

Concrete in drilled shafts shall be Class "S" as modified by Special Provision "DRILLED SHAFT FOUNDATIONS FOR STEEL SIGN STRUCTURES".

Drilled shaft lengths shall be determined based on the results of exploratory borings, which shall be performed by the Contractor prior to shaft excavation.

If competent rock is not encountered in the exploratory boring, the Standard Penetration Test (SPT) blow count corrected by the hammer efficiency, N60, shall be used to determine shaft lengths. See "TABLE OF VARIABLES".

If competent rock is encountered in the exploratory boring within 25'-0" of planned top of drilled shaft, the shafts shall be founded a minimum of 3'-0" into rock and have a minimum length of 25'-0".

If competent rock is encountered in the exploratory boring below 25'-0" from planned top of drilled shaft, the shafts shall be founded a minimum of 3'-0" into rock or to the depth based on the SPT N60 value and associated shaft length in the "TABLE OF VARIABLES", whichever is shallower.

Testing results shall be submitted to the Engineer for review. Final drilled shaft lengths shall be approved by the Engineer prior to construction.

The cost of performing exploratory borings and in-situ strength testing shall be included in the item "STEEL OVERHEAD SIGN STRUCTURE (_)".

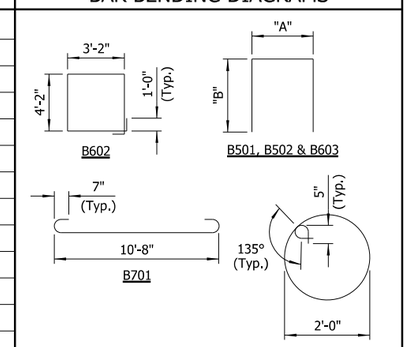
TABLE OF VARIABLES (8)

SPT N60 (7) (blows/ft.)	Min. Depth of Exploratory Boring	Drilled Shaft Length, "C"	"D"	"E"	"F" (9)	"G"
<5	-	Contact Engineer	-	-	-	-
5 To 7	92'-0"	87'-0"	173	348	89'-5"	174'-0"
7 To 9	77'-0"	72'-0"	143	288	74'-5"	144'-0"
9 To 11	58'-0"	53'-0"	105	212	55'-5"	106'-0"
11 To 13	46'-0"	41'-0"	81	164	43'-5"	82'-0"
>13	38'-0"	33'-0"	65	132	35'-5"	66'-0"

BAR LIST - FOUNDATION A2 OR B2

MARK	NO. REQ'D	LENGTH	"A"	"B"	P.D.
B501	6	5'-10"	3'-0"	1'-6"	2½"
B502	6	6'-10"	4'-0"	1'-6"	2½"
B601	14	10'-8"			Str.
B602	13	15'-10"			4½"
B603	4	11'-2"	3'-2"	4'-2"	4½"
B701	10	12'-4"			5¼"
C401	6	7'-4"			3"
D401	"E"	7'-4"			3"
D801	20	"F"			Str.

BAR BENDING DIAGRAMS



NOTES:
Dimensions of bars are out-to-out.

Number of bars shown is for one Foundation A2 or one Foundation B2.

LEGEND

U.N.O. = Unless Noted Otherwise
EF = Each Face

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

This document was originally issued by ARDOT Bridge Division. A sealed and signed original is held on file. This copy is not a signed and sealed document.

SHEET 6 OF 6
STANDARD DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

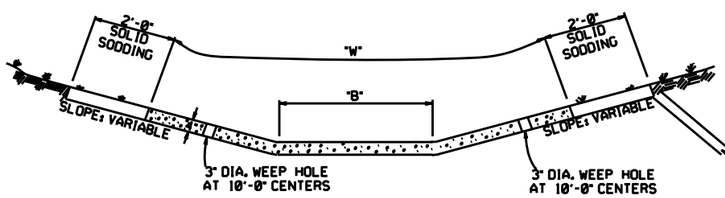
DRAWN BY: CWT DATE: JAN. 2023 FILENAME: b55093f.dgn
CHECKED BY: ABH DATE: JAN. 2023 SCALE: As Shown
DESIGNED BY: STD. DATE: -

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DRAWING NO. 55093F

6/17/2026

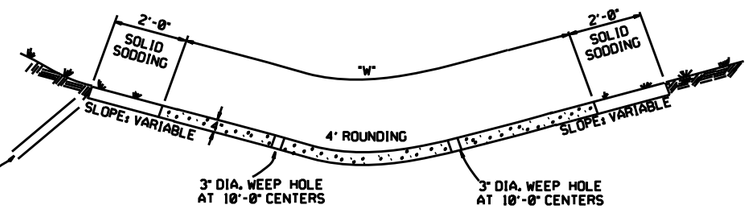
REFER TO TABULATION OF QUANTITIES FOR "W" & "B" DIMENSIONS



TYPE A

EXCAVATE TO NEAT LINES TO CONSTRUCT DITCH PAVING AND SOLID SODDING.

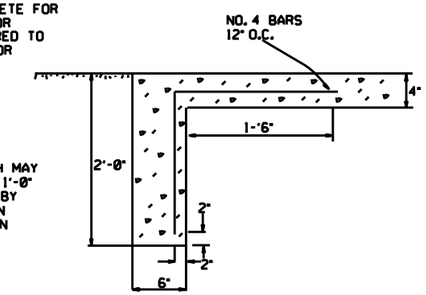
REFER TO TABULATION OF QUANTITIES FOR "W" DIMENSIONS



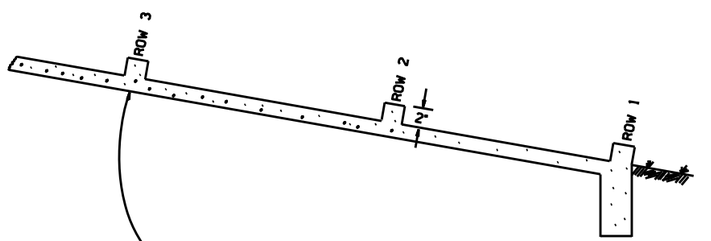
TYPE B

THE STEEL AND ADDITIONAL CONCRETE FOR THE WALLS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR "CONCRETE DITCH PAVING."

TOE WALL DEPTH MAY BE ALTERED TO 1'-0" WHEN DIRECTED BY THE ENGINEER IN ROCK EXCAVATION

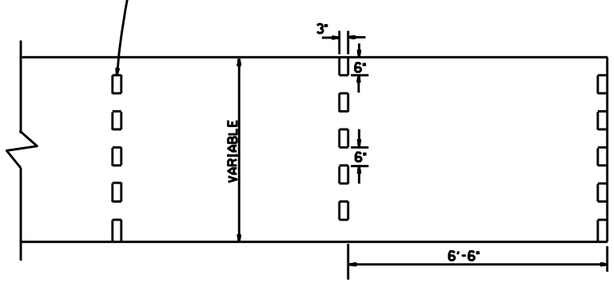


TOE WALL DETAIL FOR CONCRETE DITCH PAVING



NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED

ENERGY DISSIPATORS TO BE USED FOR THE ENTIRE LENGTH OF DITCH WHEN SLOPE OF DITCH PAVING EXCEEDS 7%. THE DISSIPATORS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR CONCRETE DITCH PAVING.



ENERGY DISSIPATORS
(NO SCALE)

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.

TOE WALLS TO BE CONSTRUCTED FULL WIDTH AT EACH END OF DITCH PAVING, AND POURED MONOLITHICALLY.

SOLID SOD ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.

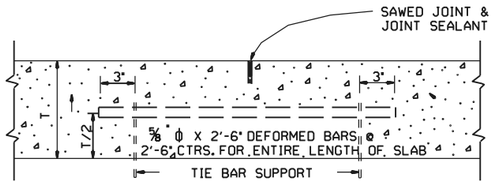
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

DATE	REVISION	DATE FILMED
12-8-16	CORRECTED ENERGY DISSIPATOR DRAWING AND NOTE	
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-8	ELIMINATED MIN. ROWS OF ELEMENTS	111-30-89
7-15-88	REVISED DISSIPATOR NOTE	653-7-15-88
4-3-87	REVISED ENERGY DISSIPATOR	671-4-3-87
1-9-87	MODIFIED NOTE ON ENERGY DISS.	532-1-9-87
11-3-86	ADDED NOTE TO ENERGY DISS.	599-12-1-86
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	508-11-1-84
11-1-84	EXCAVATION DETAILS ADDED TYPED A & B	
10-2-72	REVISED AND REDRAWN	508-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

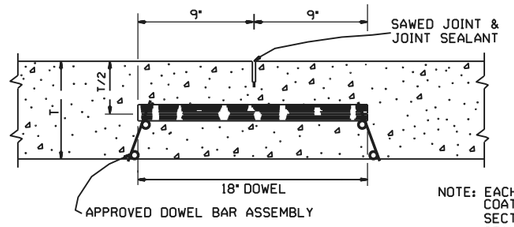
CONCRETE DITCH PAVING

STANDARD DRAWING CDP-1



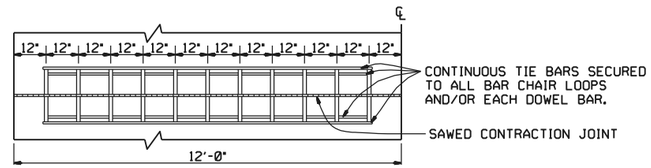
LONGITUDINAL JOINT

NOTE: THE TIE BAR SUPPORT SHOWN ABOVE MAY BE ELIMINATED IF OTHER APPROVED METHODS FOR PLACING AND SUPPORTING THE TIE BARS ARE PROVIDED.
TIE BARS SHALL BE 30" FROM TRANSVERSE JOINTS.



ROUND STEEL BAR DOWEL
1¼" DIA. WHEN T<10"
1½" DIA. WHEN T≥10"

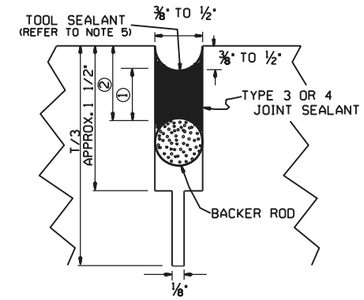
NOTE: EACH DOWEL TO BE COATED ACCORDING TO SECTION 502 OF THE STANDARD SPECIFICATIONS.



ONE-HALF 24' PAVEMENT
11 DOWELS
PLAN

NOTE: FOR 20' PAVEMENT USE 19 DOWELS @ 12" CTRS. WITH 12" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR.
FOR 15' PAVEMENT USE 14 DOWELS @ 12" CTRS. WITH 12" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR.
FOR 26' PAVEMENT USE 25 DOWELS @ 12" CTRS. WITH 12" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR.
FOR PAVEMENT WIDTHS OTHER THAN THOSE SHOWN ABOVE, USE DOWELS AT 12" CTRS. WITH 12" MAX. SPACING FROM C.L. TO FIRST BAR. DISTANCE FROM EDGE OF SLAB TO FIRST BAR SHALL BE ADJUSTED TO MAINTAIN 12" DOWEL BAR SPACING

CONTRACTION JOINT DETAILS



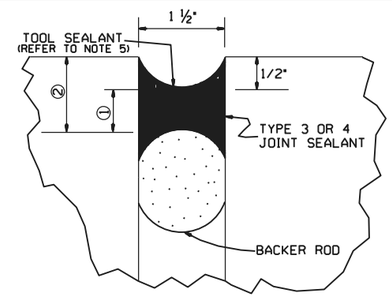
DETAIL OF SAWED CONTRACTION JOINT

JOINT CONFIGURATION FOR TYPE 3 OR 4 JOINT SEALANT

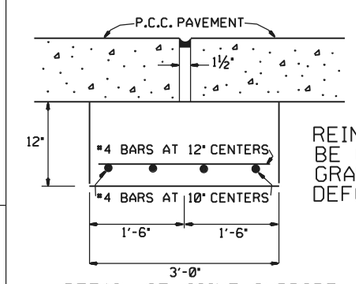
JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
¼	¼	⅜	½
⅜	¼	½	½
½	¼	⅝	½
⅝	5/16	¾	5/16
¾	⅜	⅞	⅞
1 ½	¾	2	1 ¼

JOINT CONFIGURATION FOR TYPE 5 JOINT SEALANT

JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
¼	½	⅜	¾
⅜	¾	½	1

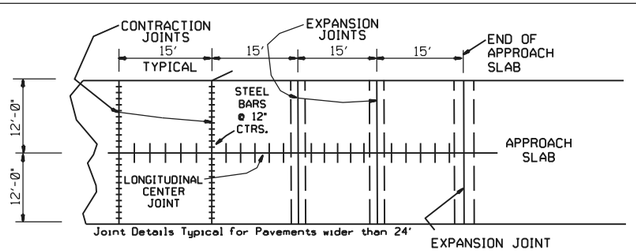


DETAIL OF EXPANSION JOINT

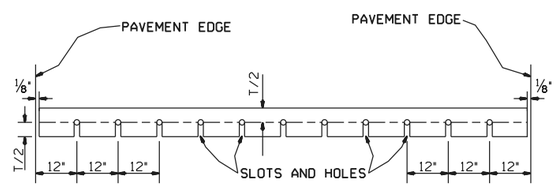


REINFORCING SHALL BE GRADE 40 OR GRADE 60 DEFORMED BARS.

DETAIL OF JOINT SUPPORT FOR EXPANSION JOINTS

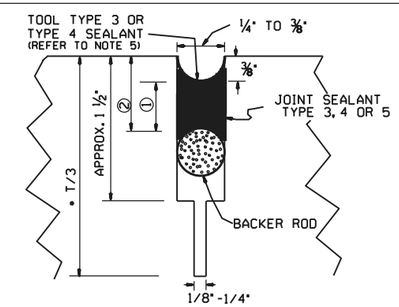


PLAN SHOWING EXPANSION JOINTS AT BRIDGE APPROACH SLABS



ELEVATION

NOTE: ALL DOWEL BARS SHALL CONFORM TO THE DETAILS FOR CONTRACTION JOINTS.

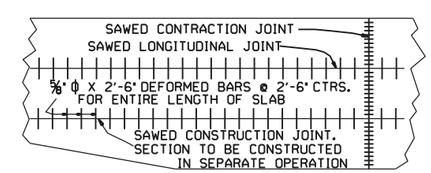


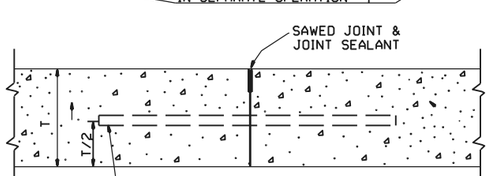
*NOTE: T/3 SAW CUT NOT REQUIRED FOR LONGITUDINAL CONSTRUCTION JOINT.

DETAIL OF SAWED LONGITUDINAL JOINT AND LONGITUDINAL CONSTRUCTION JOINT

GENERAL NOTES

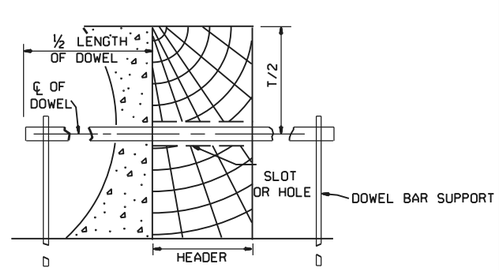
1. "T" DENOTES THICKNESS OF SLAB.
2. DOWEL BARS SHALL BE PLACED IN ACCORDANCE WITH THE DIMENSIONS SHOWN. A TOLERANCE OF PLUS OR MINUS ONE INCH WILL BE ALLOWED FOR THE VERTICAL AND LATERAL PLACEMENT AND A TOLERANCE OF PLUS OR MINUS ¼" WILL BE ALLOWED FOR THE TILT AND SKEW. DOWEL BARS SHALL BE FIELD COATED FOR A MINIMUM DISTANCE OF 2" GREATER THAN HALF THE LENGTH OF THE BAR WITH AN APPROVED GREASE AS A BOND BREAKER JUST PRIOR TO PLACEMENT OF CONCRETE.
3. THE EXPANSION JOINT SUPPORT MAY BE CONSTRUCTED WITH CLASS "A", "S" OR PAVING CONCRETE. PAYMENT FOR THE JOINT SUPPORT SHALL BE FOR THE CONTRACT UNIT PRICE BID FOR THE CLASS OF CONCRETE SPECIFIED IN THE PLANS. PAYMENT FOR ALL OTHER WORK AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE JOINT SUPPORT SHALL BE INCLUDED IN THE PRICE BID FOR THE ABOVE ITEMS.
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED ON 15' CENTERS.
5. TOOLING NOT REQUIRED FOR SELF-LEVELING SILICONE.
6. UNLESS OTHERWISE SPECIFIED IN THE PLANS, CONCRETE SHOULDERS SHALL BE CONSTRUCTED ACCORDING TO THE DETAILS SHOWN HEREON. CONTRACTION JOINTS SHALL MATCH CONTRACTION JOINTS IN THE LANES.
7. TIE WIRES IN DOWEL BAR ASSEMBLIES SHALL NOT BE CUT PRIOR TO PLACEMENT OF PAVING CONCRETE.





NOTE: TIE BARS SHALL BE 30" FROM TRANSVERSE JOINTS.

LONGITUDINAL CONSTRUCTION JOINT



SECTION

TRANSVERSE CONSTRUCTION JOINT

DATE	DESCRIPTION
11-06-25	REVISED TIE BAR AND DOWEL SPACING
11-07-19	REV. JOINT REF ON APP. SLAB
05-25-06	ADDED GENERAL NOTE 7
10-09-03	REMOVED TIE BAR COATING & REVISED GENERAL NOTES
11-16-01	ADDED TOOL SEALANT AND NOTE 5, REVISED NOTE 3

ARDOT ARKANSAS DEPARTMENT OF TRANSPORTATION

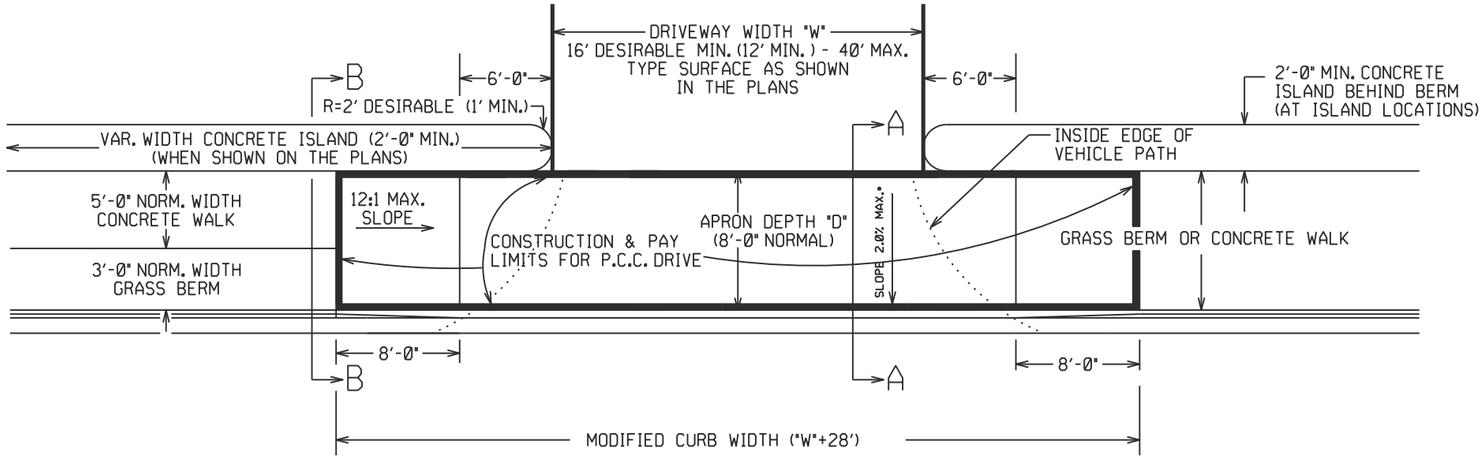
ARKANSAS STATE HIGHWAY COMMISSION

TRANSVERSE & LONGITUDINAL JOINTS FOR CONCRETE PAVEMENT (NON-REINFORCED)

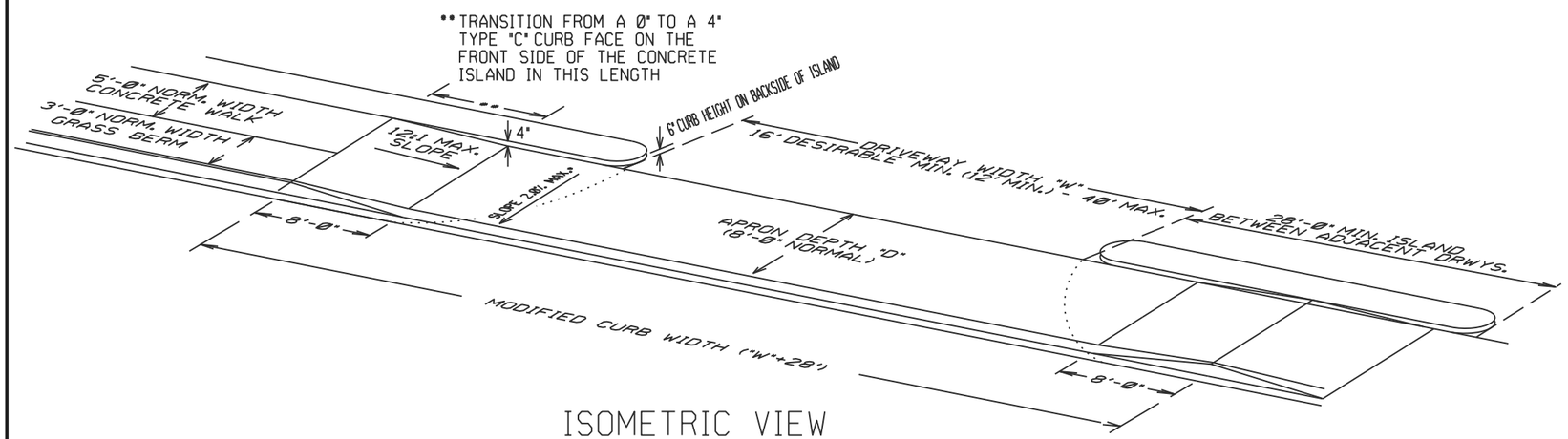
DATE EFFECTIVE 11-06-2025

STANDARD DRAWING

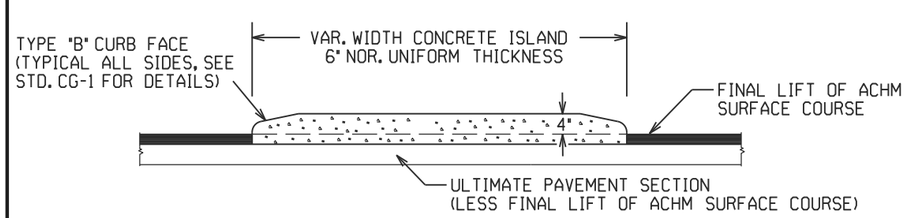
CPTJ-6A

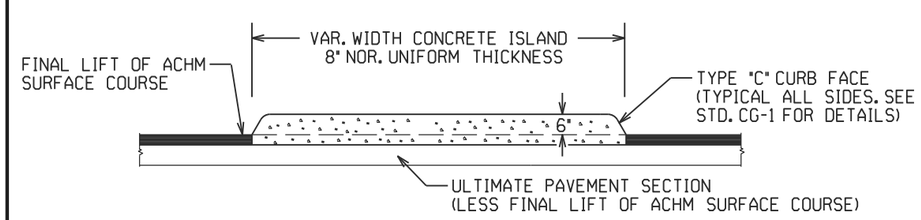


PLAN VIEW



ISOMETRIC VIEW



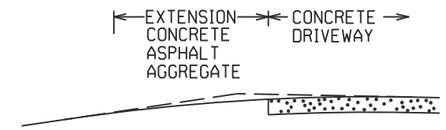


CURBED ISLANDS FOR CHANNELIZATION

CONCRETE ISLAND NOTES:

1. REFER TO PLANS FOR TYPE OF CURB FACE TO BE USED. NO DIRECT PAYMENT WILL BE MADE FOR THE CURB FACES SHOWN ON THE ISLAND DETAILS. PAYMENT FOR THE CURB FACE WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM "CONCRETE ISLAND".

2. TRANSVERSE EXPANSION JOINTS, NOT LESS THAN 1/2" WIDE, SHALL BE PLACED AT MINIMUM INTERVAL OF 45'. TRANSVERSE JOINT SHALL BE CONSTRUCTED USING A JOINT FILLER COMPLYING WITH AASHTO M213.



EXTENSION TYPICAL SECTIONS

1: CONCRETE - 6" P.C. CONCRETE DRIVEWAY

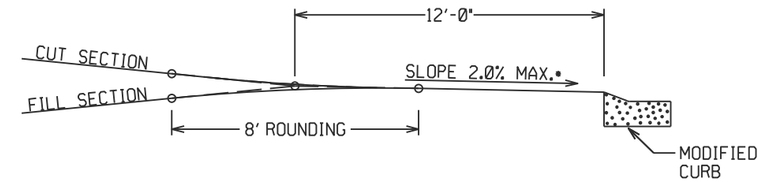
2: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
4" ACHM BINDER COURSE (1") OR
4" ACHM BASE COURSE (1-1/2")

3: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
7" AGGREGATE BASE COURSE

4: AGGREGATE - 6" AGGREGATE BASE COURSE

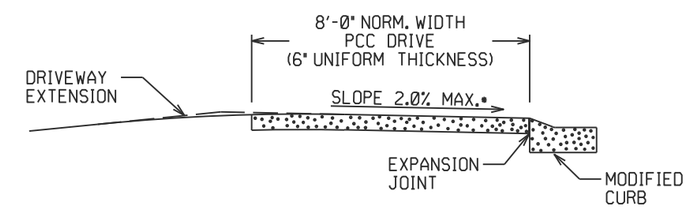
THE TYPE OF EXTENSION SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, SUBSTITUTE A LOWER NUMBERED TYPE OF EXTENSION IN LIEU OF THE TYPE SPECIFIED IN THE PLANS, BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.

DRIVEWAY EXTENSION DETAILS

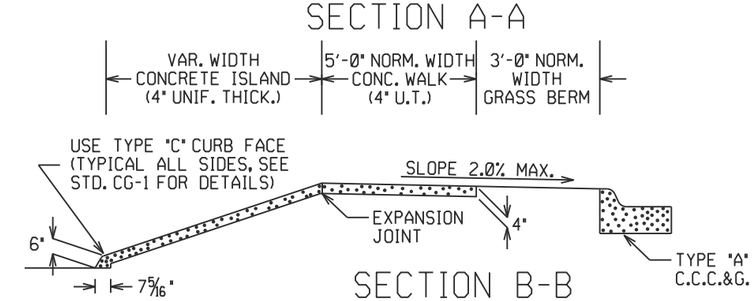


DRIVEWAY VERTICAL ALIGNMENT DETAILS

• NOTE: DRIVEWAYS MAY NOT BE SLOPED AWAY FROM THE ROADWAY UNLESS APPROVED BY THE ENGINEER.



SECTION A-A



SECTION B-B

CURBED ISLAND BEHIND WALK

DATE	DESCRIPTION
05-22-25	REVISED ISLAND DETAILS & ADDED DESIRABLE MIN. DRIVEWAY WIDTH
05-19-22	REVISED ISLAND NOTES
11-07-19	REVISED WALK DETAILS
02-27-14	REVISED PLAN & ISOMETRIC VIEW
11-29-07	ADDED CHANNELIZATION ISLAND DETAILS & REVISED DRIVEWAY SLOPE NOTE & VERTICAL ALIGNMENT DETAIL

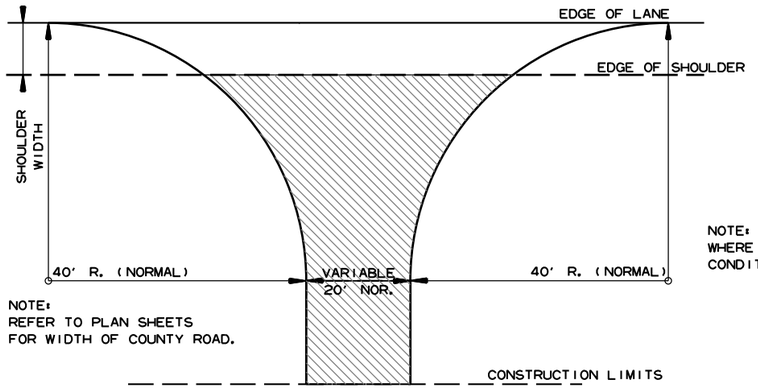
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DRIVEWAYS & ISLANDS

DATE EFFECTIVE 05-22-2025

STANDARD DRAWING

DR-1

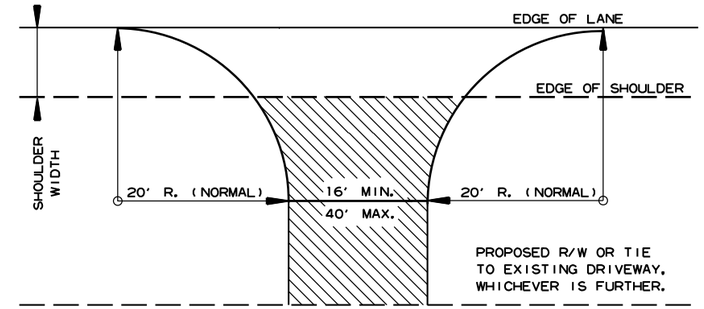


NOTE:
REFER TO PLAN SHEETS
FOR WIDTH OF COUNTY ROAD.

NOTE: TURNOUTS SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

ACHM SURFACE COURSE (1/2") (220 LBS. PER SQ. YD.) AND AGGREGATE BASE COURSE (CLASS 7) 7" COMP. DEPTH, UNLESS OTHERWISE SPECIFIED IN PLANS.

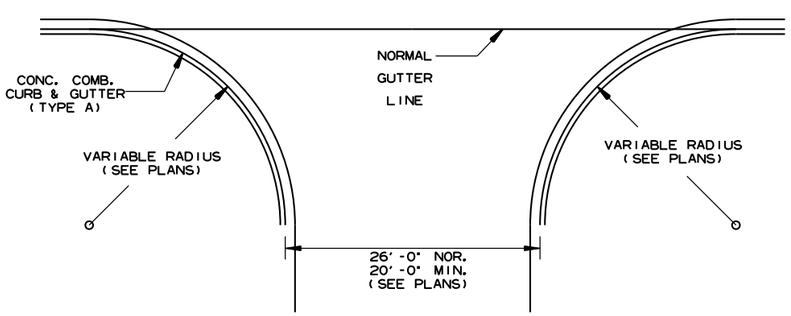
DETAIL FOR COUNTY ROAD TURNOUTS OPEN SHOULDER SECTION



NOTE: TURNOUTS AND PRIVATE DRIVES SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

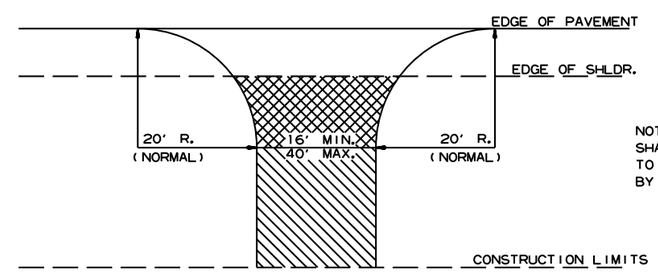
ACHM SURFACE COURSE (1/2") (220 LBS. PER SQ. YD.) AND AGGREGATE BASE COURSE (CLASS 7) 7" COMP. DEPTH IF ASPHALT OR GRAVEL DRIVE EXISTING; OR 6" CONCRETE IF CONCRETE DRIVE EXISTING.

DETAIL FOR DRIVEWAY TURNOUTS OPEN SHOULDER SECTION (ARTERIALS)



NOTE:
PAVEMENT STRUCTURE FOR STATE HIGHWAYS, CITY STREETS, & COUNTY ROADS TO BE SAME AS MAIN LANES.

DETAIL OF TURNOUTS, ASPHALT STREETS, COUNTY ROADS & STATE HIGHWAYS CURB & GUTTER SECTION



NOTE: TURNOUTS AND PRIVATE DRIVES SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

ASPHALT CONCRETE HOT MIX SURFACE COURSE (220 LBS. PER SQ. YD.) AGGREGATE BASE COURSE (CLASS 7) 7" COMP. DEPTH IF ASPHALT DRIVE EXIST OR 6" CONCRETE IF CONCRETE DRIVE EXIST.

AGGREGATE BASE COURSE (CLASS 7) 9" COMP. DEPTH OR CONFORM TO EXISTING DRIVEWAY

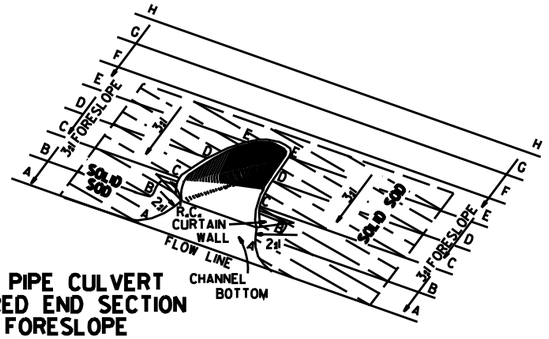
DETAIL FOR DRIVEWAY TURNOUTS (COLLECTORS)

DATE REV	DATE FILMED	DESCRIPTION
5-19-22		ISSUED

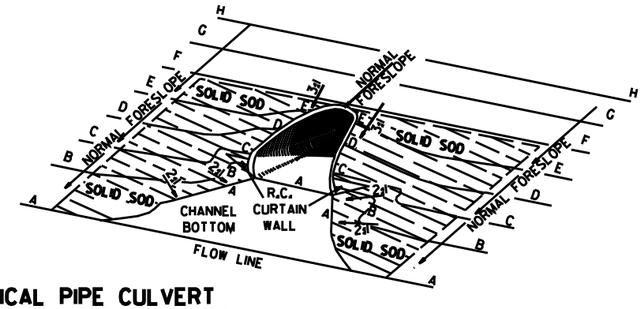
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DRIVEWAYS & STREET TURNOUTS

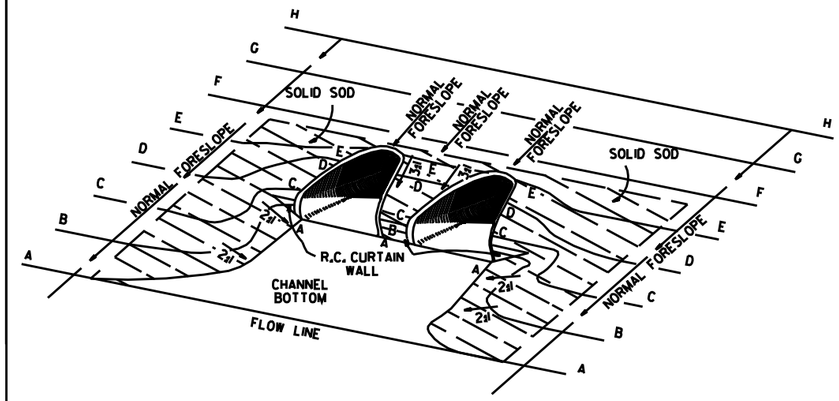
STANDARD DRAWING DR-2



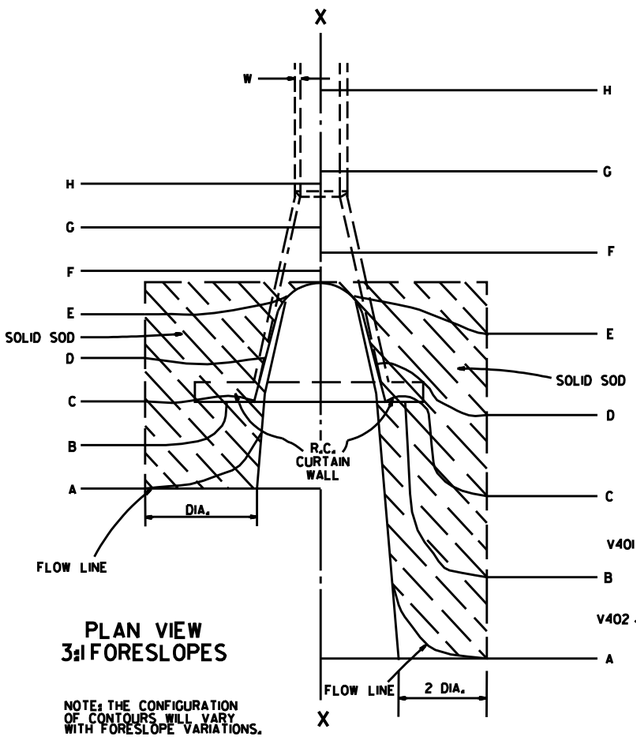
TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& 3:1 FORESLOPE



TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& FLATTENED ADJACENT SLOPES



TYPICAL MULTIPLE PIPE CULVERT
WITH FLARED END SECTIONS
& FLATTENED ADJACENT SLOPES



PLAN VIEW
3:1 FORESLOPES

NOTE: THE CONFIGURATION OF CONTOURS WILL VARY WITH FORESLOPE VARIATIONS.

PLAN VIEW
FLATTENED FORESLOPES

R.C. CURTAIN WALL DIMENSIONS & QUANTITIES

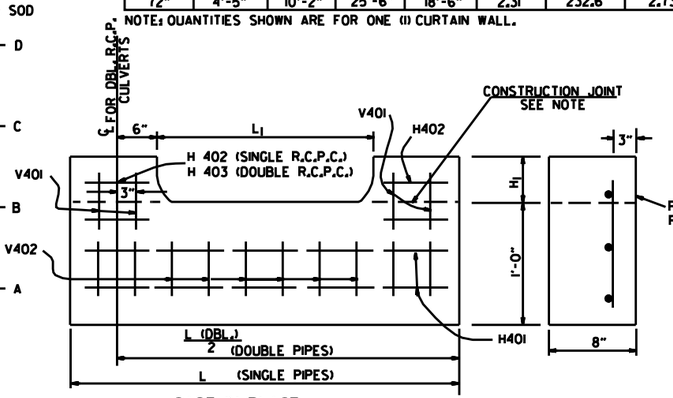
PIPE DIA.	H_1	L_1	L	L (DBL.)/2	SINGLE R.C.P.C. CONC.	SINGLE R.C.P.C. REINF. STEEL	DOUBLE R.C.P.C. CONC.	DOUBLE R.C.P.C. REINF. STEEL
					CU. YDS.	LBS.	CU. YDS.	LBS.
18"	11½"	3'-5"	8'-0"	6'-3"	0.31	27.7	0.45	39.5
24"	1'-0½"	4'-6"	9'-6"	7'-6"	0.37	33.4	0.53	48.0
30"	1'-3½"	5'-7"	11'-0"	9'-0"	0.45	39.0	0.67	59.0
36"	1'-7"	6'-8"	13'-0"	10'-6"	0.58	52.6	0.83	73.9
42"	2'-1½"	7'-3"	15'-6"	12'-0"	0.82	77.1	1.10	100.7
48"	2'-5"	7'-10"	17'-0"	13'-0"	0.98	94.9	1.27	120.4
54"	2'-9½"	8'-5"	18'-6"	14'-0"	1.16	115.8	1.47	143.7
60"	3'-4"	9'-0"	20'-6"	15'-6"	1.47	149.7	1.84	180.3
72"	4'-5"	10'-2"	25'-6"	18'-6"	2.31	232.6	2.73	271.0

NOTE: QUANTITIES SHOWN ARE FOR ONE (1) CURTAIN WALL.

REINFORCING STEEL SCHEDULE

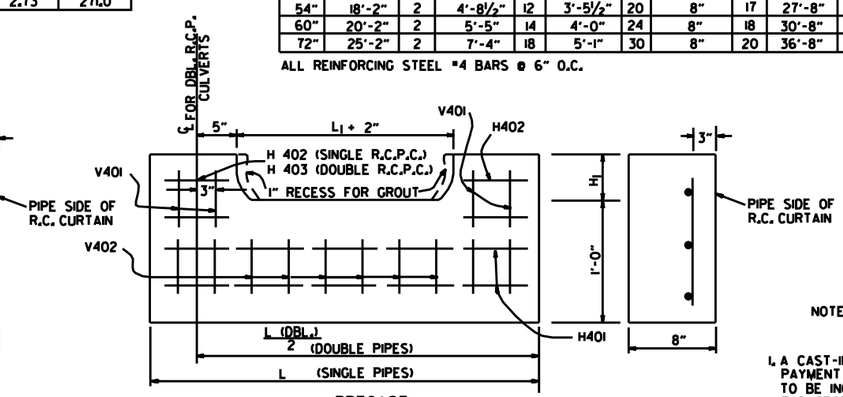
PIPE DIA.	SINGLE R.C. PIPE CULVERT H401 L	NO.	H402 L	NO.	V401 L	NO.	V402 L	NO.	DOUBLE R.C. PIPE CULVERT H401 L	NO.	H402 L	NO.	H403 L	NO.	V401 L	NO.	V402 L	NO.
18"	7'-8"	2	1'-11½"	4	1'-7½"	8	8"	8	12'-2"	2	1'-11½"	4	8"	2	1'-7½"	10	8"	14
24"	9'-2"	2	2'-2"	4	1'-8½"	10	8"	9	14'-8"	2	2'-2"	4	8"	2	1'-8½"	12	8"	18
30"	10'-8"	2	2'-4½"	4	1'-11½"	10	8"	12	17'-8"	2	2'-4½"	4	8"	2	1'-11½"	14	8"	22
36"	12'-8"	2	2'-10"	6	2'-3"	12	8"	14	20'-8"	2	2'-10"	6	8"	3	2'-3"	14	8"	28
42"	15'-2"	2	3'-9½"	8	2'-9½"	16	8"	15	23'-8"	2	3'-9½"	8	8"	4	2'-9½"	18	8"	30
48"	16'-8"	2	4'-3"	10	3'-1"	18	8"	16	25'-8"	2	4'-3"	10	8"	5	3'-1"	20	8"	32
54"	18'-2"	2	4'-8½"	12	3'-5½"	20	8"	17	27'-8"	2	4'-9"	12	8"	6	3'-5½"	22	8"	34
60"	20'-2"	2	5'-5"	14	4'-0"	24	8"	18	30'-8"	2	5'-5"	14	8"	7	4'-0"	26	8"	36
72"	25'-2"	2	7'-4"	18	5'-1"	30	8"	20	36'-8"	2	7'-4"	18	8"	9	5'-1"	33	8"	40

ALL REINFORCING STEEL #4 BARS @ 6" O.C.



CAST-IN-PLACE

NOTE: THE PORTION OF THE R.C. CURTAIN WALL BENEATH THE FLARED END SECTION (LOWER 1'-0") SHALL BE PLACED MONOLITHICALLY. THE FLARED END SECTION SHALL THEN BE SET IN PLACE & THE REMAINING PORTIONS OF THE R.C. CURTAIN WALL PLACED.



PRECAST

NOTE: THE PRECAST CURTAIN WALL WILL BE SET AND BACKFILLED WITH COMPACTED MATERIAL. THE FLARED END SECTION SHALL THEN BE SET IN PLACE AND THE 1" RECESS FILLED WITH GROUT. WHERE "L" EXCEEDS 11' THE CURTAIN WALL MAY BE CAST IN TWO (2) OR MORE SECTIONS. THE METHOD OF JOINING THE SECTIONS FOR INSTALLATION SHALL BE APPROVED BY THE ENGINEER.

R.C. CURTAIN WALL DETAILS

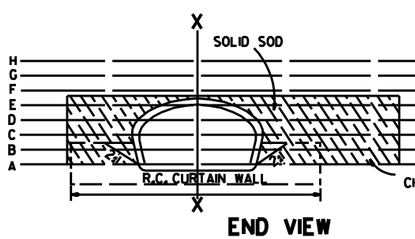
SOLID SODDING

PIPE DIA.	SINGLE R.C.P.C. 3:1	4:1	6:1	DOUBLE R.C.P.C. 3:1	4:1	6:1
	SQ. YDS.			SQ. YDS.		
18"	5	7	12	6	8	13
24"	8	12	19	9	13	20
30"	13	18	29	14	19	30
36"	17	26	41	18	28	43
42"	23	35	55	25	37	57
48"	29	46	68	31	48	70
54"	35	57	85	37	59	87
60"	45	62	104	48	65	107
72"	64	92	156	67	95	159

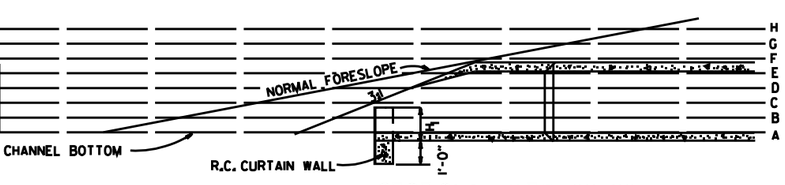
NOTE: QUANTITIES SHOWN ABOVE ARE FOR ONE (1) END OF F.E.S.

GENERAL NOTES

1. A CAST-IN-PLACE OR PRECAST CURTAIN WALL MAY BE USED. PAYMENT FOR THE CURTAIN WALL SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICE BID EACH FOR FLARED END SECTIONS OF THE SEVERAL SIZES, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS INCLUDING REINFORCING STEEL AND CONCRETE; FOR FORMS, MIXING AND PLACING; FOR EXCAVATION AND BACKFILL, AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
2. ALL EXPOSED EDGES SHALL BE CHAMFERED ¾".
3. CONCRETE FOR CURTAIN WALL SHALL MEET THE REQUIREMENTS FOR CLASS A OR S CONCRETE AS PROVIDED IN SECTION 802 OF THE STANDARD SPECIFICATIONS OR FOR PAVING CONCRETE AS PROVIDED IN SECTION 501 OF THE STANDARD SPECIFICATIONS.
4. WELDED WIRE MESH 3 × 3 W/10 × W10 MAY BE USED IN LIEU OF REINFORCING BARS.



END VIEW



SECTIONAL VIEW "X-X"

DATE	REVISION	FILMED
10-18-96	ADDED NOTE TO SOLID SODDING	
10-12-95	CORRECTED SPELLING	
11-3-94	ADDED GENERAL NOTE NO. 4	
8-15-91	REV. CURTAIN WALL QUANT. STEEL SCH. & SOLID SOD QUANT.	
3-2-81	ALLOW PRECAST IN 2 OR MORE PIECES CHAMFER EDGES	
5-15-80	ADDED PRECAST WALL & GENERAL NOTES	
10-2-72	REVISED AND REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

FLARED END SECTION

STANDARD DRAWING FES-1

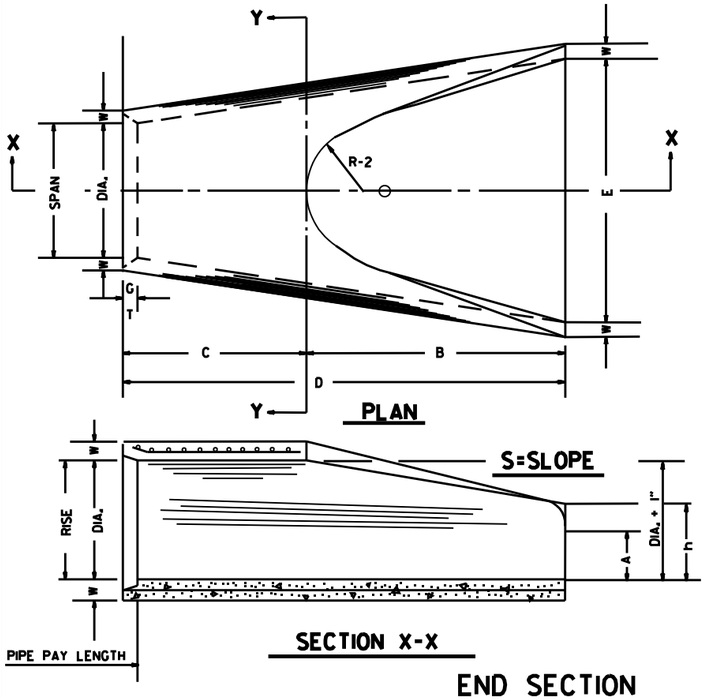


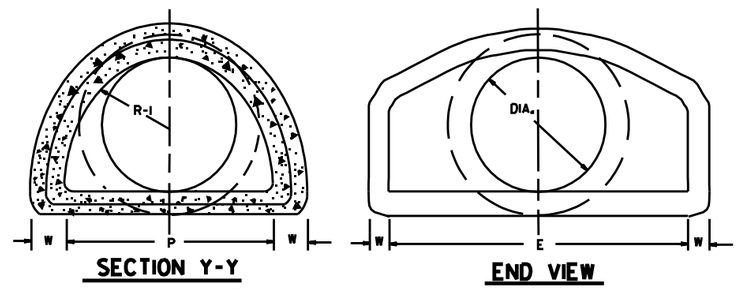
TABLE OF DIMENSIONS

DIA.	WALL	A	B	C	D	E	S	DIA. + 1"	P	R-1	R-2	G-T	WT.	h
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	3:1	19"	29"	15 1/2"	12"	2"	1000	1'-0 1/2"
24"	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	3:1	25"	33 3/16"	16 11/16"	14"	2 1/2"	1600	1'-1 1/2"
30"	3 1/2"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	3:1	31"	37"	18 1/2"	15"	3 1/4"	1940	1'-4 5/8"
36"	4"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	3:1	37"	47 11/16"	24 5/16"	20"	3 1/2"	4100	1'-8"
42"	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53 7/8"	27 1/2"	22"	3 1/2"	5380	2'-2 1/2"
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	3:1	49"	56 1/2"	28 1/2"	22"	3 1/2"	6550	2'-6"
54"	5 1/2"	2'-4"	6'-6"	1'-10"	8'-4"	7'-6"	3:1	55"	65 1/2"	33 1/8"	24"	4"	8750	2'-10 1/2"
60"	6"	2'-10"	6'-6"	1'-10"	8'-4"	8'-0"	3:1	61"	72 1/2"	36 11/16"	24"	4"	9270	3'-5"
72"	7"	3'-10"	6'-6"	1'-10"	8'-4"	9'-0"	3:1	73"	77 11/16"	38 15/16"	24"	5"	13250	4'-6"

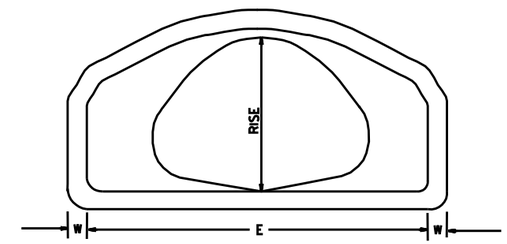
ARCH PIPE

EQUIV. DIA.	• SPAN AASHTO M 206	• SPAN AHD NOMINAL	• RISE AASHTO M 206	• RISE AHD NOMINAL	W	A	B	C	D	E	P	R2	G-T	S
INCHES														
15	18	18	11	11	2"	4"	2'-0"	4'-0"	6'-0"	3'-0"	29"	12"	1 1/2"	2 1/2:1
18	22	22	13 1/2	14	2 1/2"	5"	2'-0"	4'-1"	6'-1"	3'-6"	32 1/8"	13"	2 1/2"	2 1/2:1
21	26	26	15 1/2	16	2 3/4"	7"	2'-3"	3'-10"	6'-1"	4'-0"	34 1/8"	14"	2 1/2"	2 1/2:1
24	28 1/2	29	18	18	3"	9"	2'-3"	3'-10"	6'-1"	5'-0"	36 11/16"	15"	2 1/2"	2 1/2:1
30	36 1/4	36	22 1/2	23	3 1/2"	10"	3'-1"	3'-0 1/2"	6'-1 1/2"	6'-0"	47 11/16"	20"	3"	2 1/2:1
36	43 3/4	44	26 5/8	27	4"	10 1/2"	4'-0"	2'-11 1/2"	6'-1 1/2"	6'-6"	54 7/16"	22"	3 1/2"	2 1/2:1
42	51 1/8	51	31 5/16	31	4 1/2"	11 1/2"	4'-7"	1-10 1/4"	6'-5 1/4"	7'-2"	59 1/2"	23"	3 3/4"	2 1/2:1
48	58 1/2	59	36	36	5"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	7'-10"	70 3/16"	24"	4 1/4"	2 1/2:1
54	65	65	40	40	5 1/2"	1'-7"	5'-3"	2'-11"	8'-2"	8'-6"	72 1/16"	24"	4 3/4"	2 1/4:1
60	73	73	45	45	6"	1'-10"	5'-6"	2'-8"	8'-2"	9'-0"	77 11/16"	24"	5"	2 1/4:1

• THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PER CENT FROM THE VALUES SPECIFIED BY AASHTO M 206.

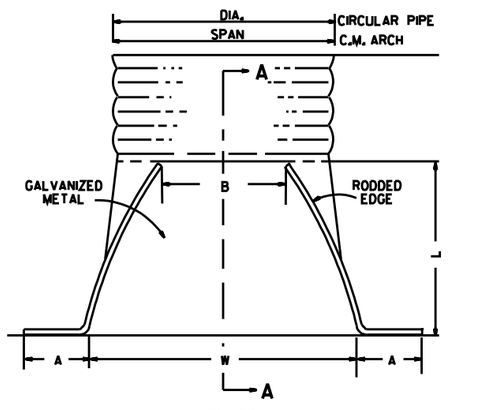


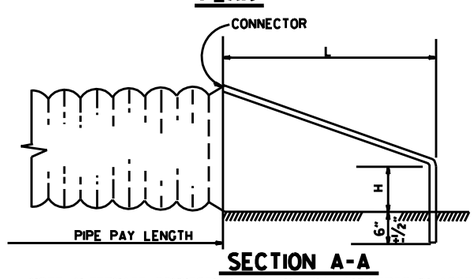
NOTE: TONGUE END ON UPSTREAM SECTION
GROOVE END ON DOWNSTREAM SECTION

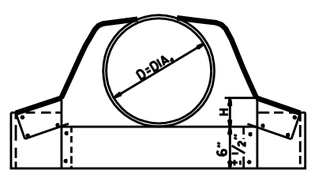


END VIEW
CONCRETE ARCH PIPE

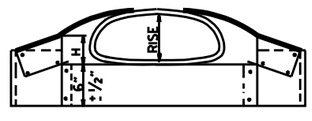
END SECTION
FOR REINFORCED CONCRETE PIPE CULVERTS







CIRCULAR PIPE



C.M. ARCH PIPE

CIRCULAR PIPE

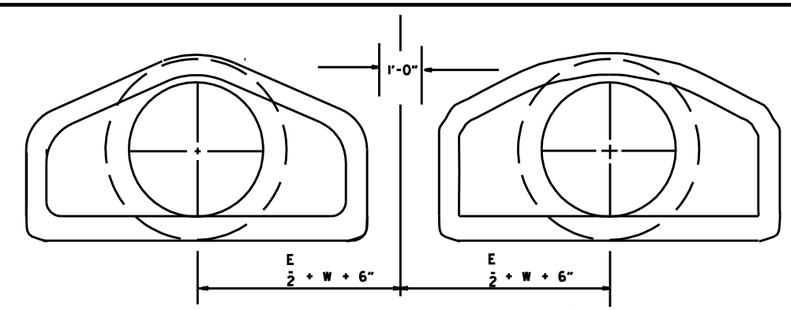
D. DIA.	GAUGE	A 1" ±	B. MAX.	H 1" ±	L 1 1/2" ±	W 2" ±	S
		INCHES					
12	16	6	6	6	21	24	2 1/2:1
15	16	7	8	6	26	30	2 1/2:1
18	16	8	10	6	31	36	2 1/2:1
21	16	9	12	6	36	42	2 1/2:1
24	16	10	13	6	41	48	2 1/2:1
30	14	12	16	8	51	60	2 1/2:1
36	14	14	19	9	60	72	2 1/2:1
42	12	16	22	11	69	84	2 1/2:1
48	12	18	27	12	78	90	2 1/2:1
54	12	18	30	12	84	102	2:1
60	12	18	33	12	87	114	1 3/4:1
66	12	18	36	12	87	120	1 1/2:1
72	12	18	39	12	87	126	1 1/3:1

C.M. ARCH PIPE

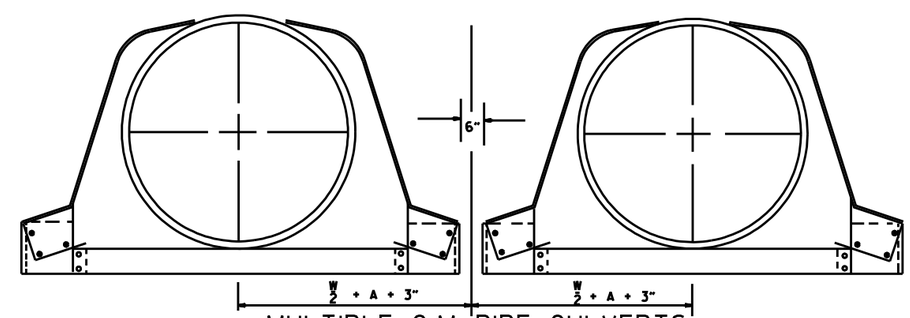
EQUIV. DIA.	SPAN	RISE	A 1" ±	B MAX.	H 1" ±	L 1 1/2" ±	W 2" ±	S	GAUGE
			INCHES						
15"	17	13	7	9	6	19	30	2 1/2:1	16
18"	21	15	7	10	6	23	36	2 1/2:1	16
21"	24	18	8	12	6	28	42	2 1/2:1	16
24"	28	20	9	14	6	32	48	2 1/2:1	16
30"	35	24	10	16	6	39	60	2 1/2:1	14
36"	42	29	12	18	8	46	75	2 1/2:1	14
42"	49	33	13	21	9	53	85	2 1/2:1	12
48"	57	38	18	26	12	63	90	2 1/2:1	12
54"	64	43	18	30	12	70	102	2 1/4:1	12
60"	71	47	18	33	12	77	114	2 1/4:1	12

NOTE: ALTERNATE CONNECTIONS TO THE PIPE CULVERTS, IN ACCORDANCE WITH MANUFACTURER'S STANDARD PRACTICES, MAY BE MADE SUBJECT TO THE APPROVAL OF THE ENGINEER.

END SECTIONS FOR CORRUGATED METAL PIPE CULVERTS



MULTIPLE R.C. PIPE CULVERTS



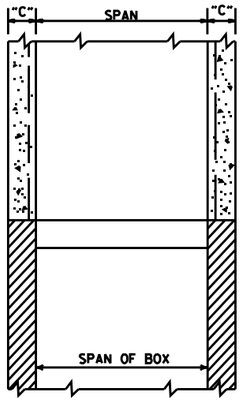
MULTIPLE C.M. PIPE CULVERTS

DATE	REVISION	FILMED
10-18-96	REVISED ASTM REF. TO AASHTO	
5-15-80	REVISED DISTANCE BETWEEN MULTIPLE R.C.P. F.E.S.	664-5-15-80
7-14-78	C.M. ARCH SIZES TO CONFORM WITH AASHTO SIZES	752-7-14-78
8-22-75	ADDED MULTIPLE PIPE CULVERTS	517-8-22-75
12-5-74	REMOVED NOTE RE REINF. FOR R.C. F.E.S.	500-12-5-74
5-24-73	CMP END SECTION, SHOW PIPE PAY LENGTH	627-5-24-73
10-2-72	REVISED AND REDRAWN	760-10-2-72

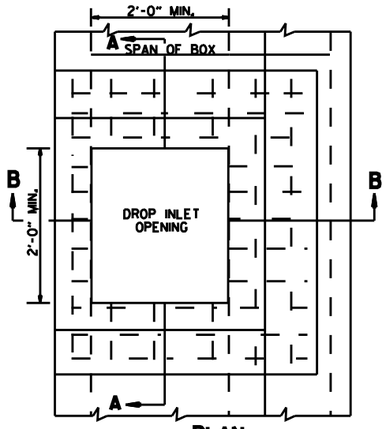
ARKANSAS STATE HIGHWAY COMMISSION

FLARED END SECTION

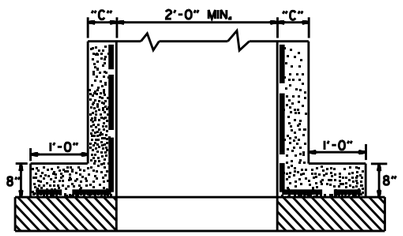
STANDARD DRAWING FES-2



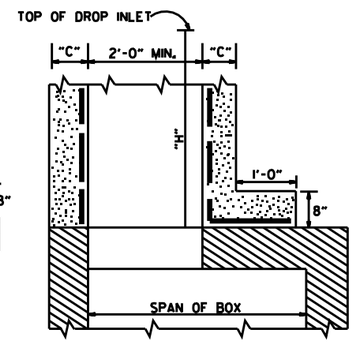
SECTION B-B



PLAN

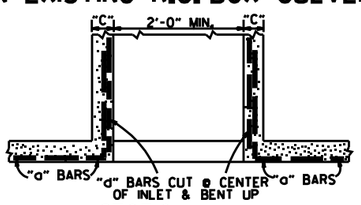


SECTION A-A

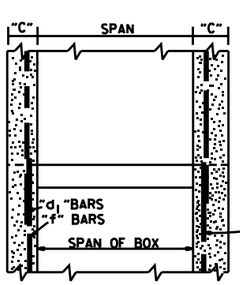


SECTION B-B

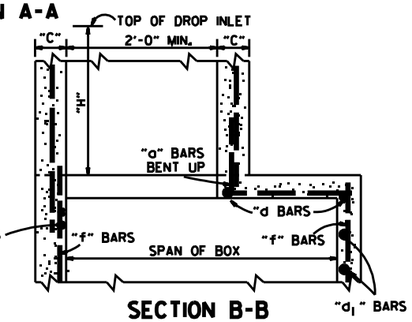
METHOD OF CONSTRUCTING DROP INLET ON EXISTING R.C. BOX CULVERT



SECTION A-A



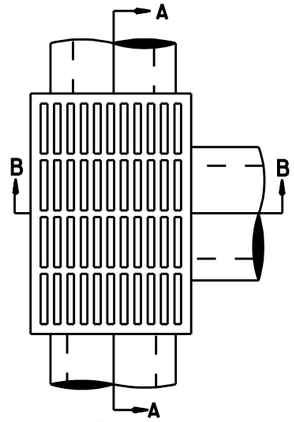
SECTION B-B



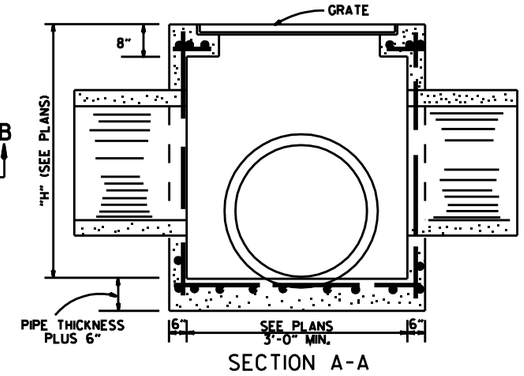
SECTION B-B

METHOD OF CONSTRUCTING DROP INLET ON NEW R.C. BOX CULVERT

NOTE: "C" DIMENSIONS AND REINFORCING BAR SIZES, SHALL CONFORM TO THOSE SHOWN ON STANDARD DRAWING FOR DROP INLET.

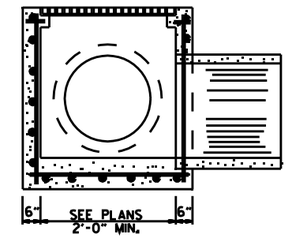


PLAN



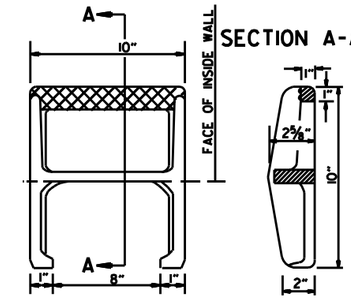
SECTION A-A

NOTE: REINF. BARS TO BE #4 BARS ON 6" CTRS. WITH 1½" MIN. COVER. THIS TYPE DROP INLET TO BE USED WHERE NOT SUBJECTED TO TRAFFIC.



SECTION B-B

DROP INLET (TYPE E)



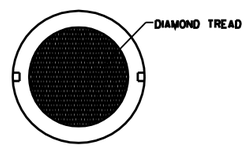
SECTION A-A

APPROX. WEIGHT = 11 LBS. (CAST IRON)

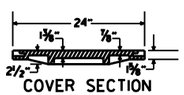
PLAN

NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

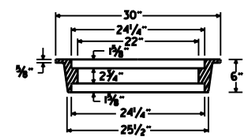
DETAIL OF STEP FOR DROP INLET



COVER FACE



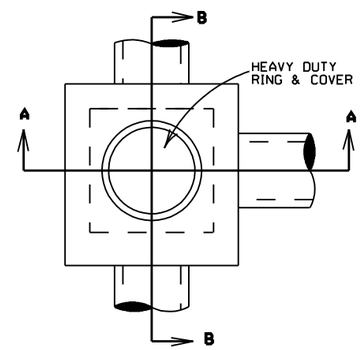
COVER SECTION



RING SECTION

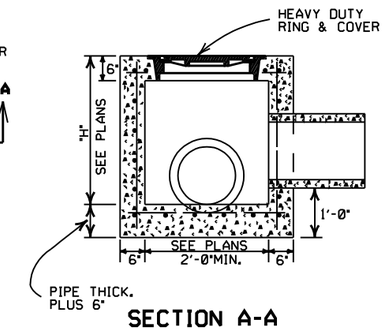
APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

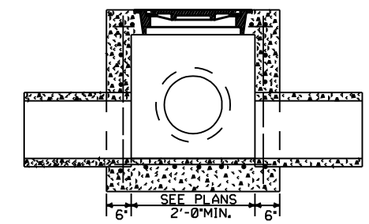


PLAN

NOTE: REINF. BARS TO BE #4 BARS ON 6" CTRS. WITH 1½" MIN. COVER. THIS TYPE JUNCTION BOX TO BE USED WHERE NOT SUBJECTED TO TRAFFIC.

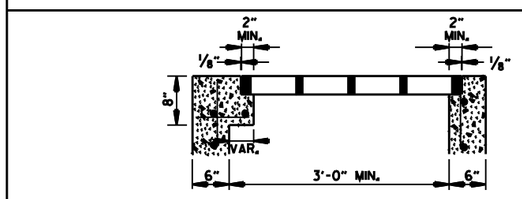


SECTION A-A

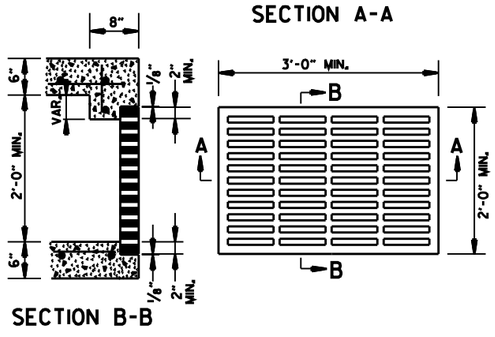


SECTION B-B

JUNCTION BOX (TYPE E)



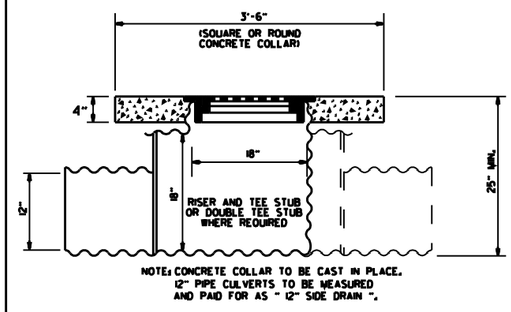
SECTION A-A



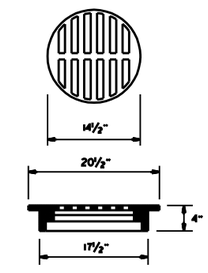
SECTION B-B

APPROXIMATE MINIMUM WATERWAY OPENING = 260 SQ. IN.

GRATE FOR TYPE E DROP INLET



NOTE: CONCRETE COLLAR TO BE CAST IN PLACE. 12" PIPE CULVERTS TO BE MEASURED AND PAID FOR AS " 12" SIDE DRAIN ".



USE NEENAH R-5901-C OR EQUIVALENT BICYCLE SAFE FRAME AND GRATE

DETAIL OF YARD DRAIN

GENERAL NOTES:

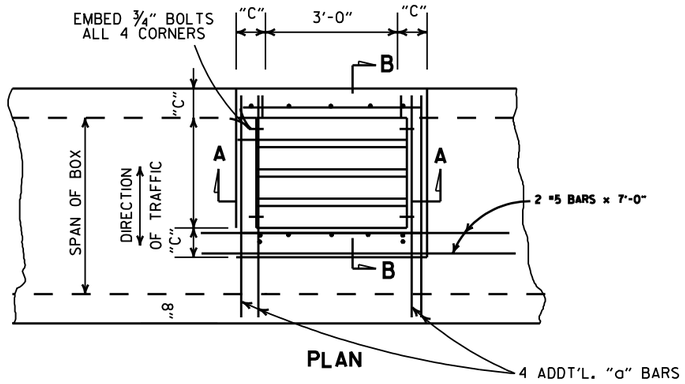
1. ALL EXPOSED CORNERS SHALL BE ¾" CHAMFERED.
2. STEPS SHALL BE INSTALLED ON 16" CENTERS ON ALL INLETS 4'-0" HIGH OR OVER, OR AS APPROVED BY THE ENGINEER.
3. EXPANSION JOINT MATERIAL SHALL BE ¾" PREFORMED FIBER.
4. GRATE OR GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105 CLASS 35B. GRATE MAY BE USED WITHOUT FRAME.
5. GRATE AND FRAME SHALL NOT BE PAINTED.
6. GRATE SHALL BE BICYCLE SAFE.
7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
8. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
9. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
10. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

DATE REV.	REVISION	DATE FILMED
11-16-01	ADDED NOTE 10	
1-12-00	REVISED HEAVY DUTY RING & COVER	
7-02-98	CHANGED GRATE DETAIL, DELETED DI (TYPE D), REPLACED RING & COVER W/HEAVY DUTY RING & COVER, ADDED JUNCTION BOX (TYPE E)	
6-26-97	ADDED DIMENSION TO TYPE IV-A	
10-18-96	ADDED DETAIL OF YARD DRAIN	
8-15-91	DELETE TYPE IV GRATE	
7-15-88	REVISED STEP DETAIL	
5-20-83	REVISED DETAILS OF GRATES (TYPE IV & IV-A)	
2-4-83	ADDED GENERAL NOTE NO. 4	
3-2-81	ADDED TYPE IV-A GRATE	
5-22-74	DELETED INLET (TYPE F) & GRATE (TYPE III)	
10-2-72	REVISED AND REDRAWN	

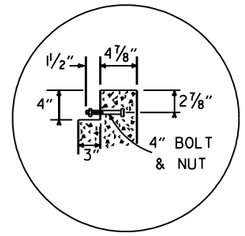
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS & JUNCTION BOXES

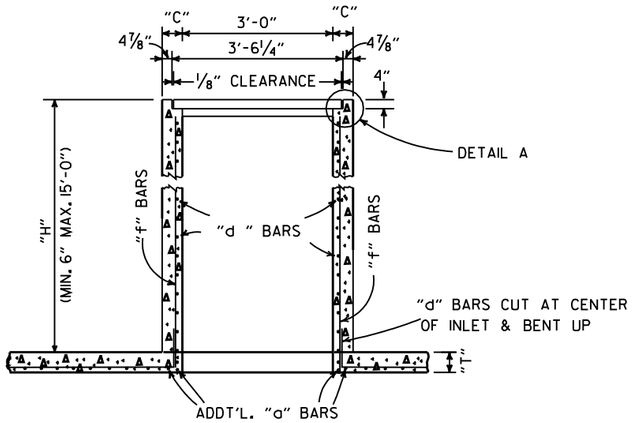
STANDARD DRAWING FPC-9



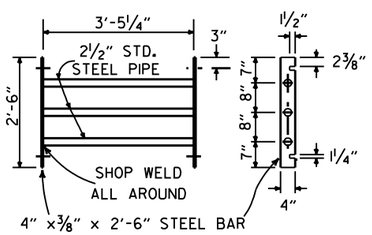
PLAN



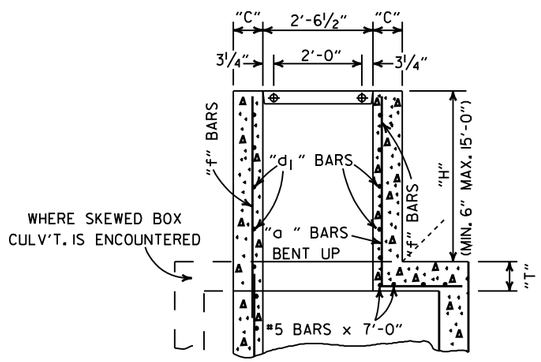
DETAIL A



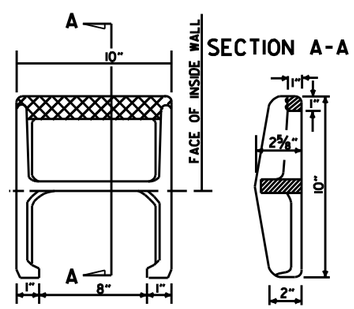
SECTION A-A



GRATE DETAIL



SECTION B-B



APPROX. WEIGHT = 11 LBS. (CAST IRON)

PLAN

NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

DETAIL OF STEP FOR DROP INLET

NOTE: ADDT'L. REINF. STEEL TO BE INCLUDED IN UNIT PRICE BID PER TYPE "TM" D.I.

DIMENSIONS & REINF. BARS FOR D.I. TO BE THE SAME AS THOSE SHOWN ON APPLICABLE STD. BARREL DRAWING FOR R.C. BOX CULVERTS.

DROP INLET TYPE "TM"
FOR REINFORCED CONC. BOX CULVERTS

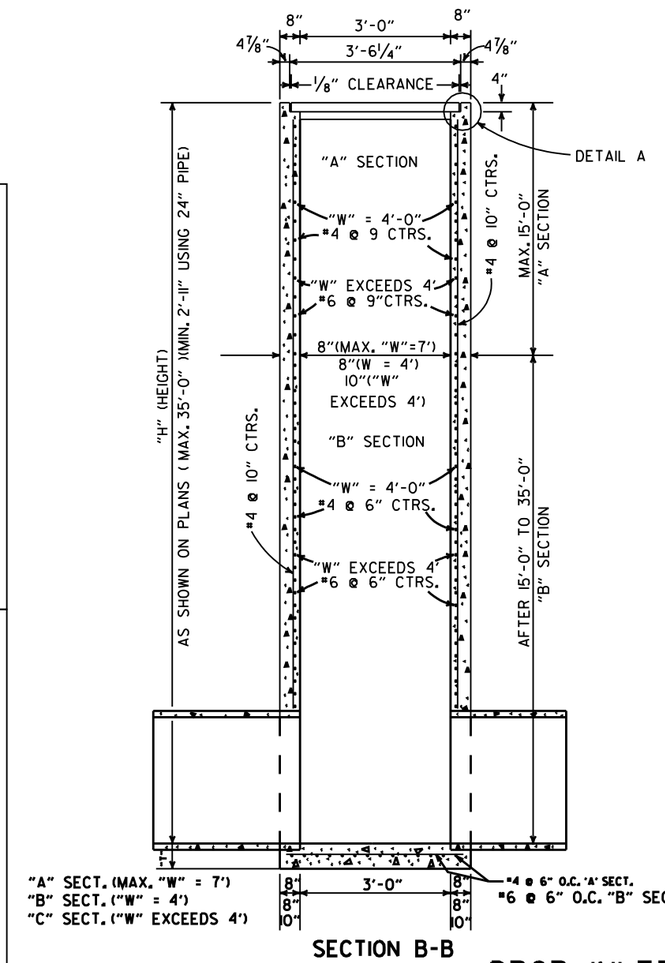
GENERAL NOTES:

1. STEEL PIPE FOR GRATES AND BOLTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 807. BOLTS SHALL CONFORM TO ONE OF THE FOLLOWING: ASTM A193, GRADE B8 CLASS 1OR 2, ASTM A307 OR AASHTO M 164.
2. STEEL PIPE FOR GRATES SHALL BE "STANDARD WEIGHT" PIPE CONFORMING TO ASTM A53 NATIONAL STANDARD PIPE.
3. BOLTS, NUTS, WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232 OR AASHTO M 298, CLASS 40 OR 50.
4. ALL EXPOSED CORNERS TO HAVE ¾" CHAMFER.
5. ALL #4 AND #5 REINFORCING BARS TO HAVE 1½" COVER. LARGER SIZES TO HAVE 2" COVER.
6. THE COMPLETE PIPE GRATE SHALL BE PAINTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

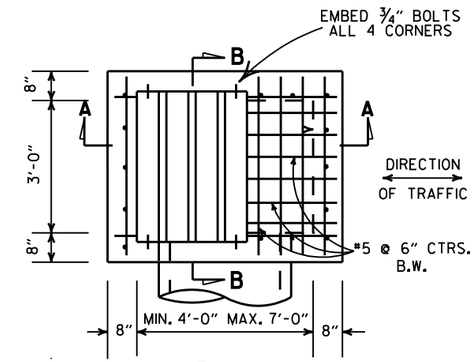
TABLE OF "W" DIMENSIONS

I.D. PIPE	SKEW OF CROSS DRAIN		
	STRAIGHT	30°	45°
	"W"	"W"	"W"
24"	4'-0"	4'-0"	4'-0"
30"	4'-0"	4'-0"	4'-5"
36"	4'-0"	4'-3"	5'-3"
42"	4'-3"	4'-11"	6'-1"
48"	4'-10"	5'-7"	6'-11"

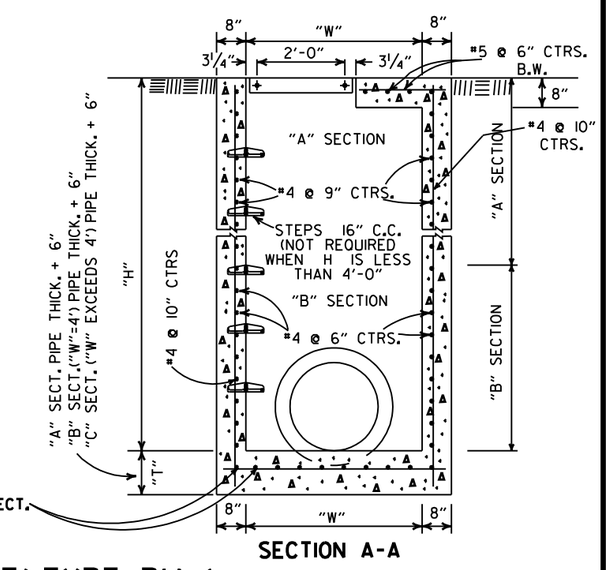
NOTE: DIMENSIONS SHOWN ABOVE ARE FOR PIPES INTERSECTING DROP INLET ON ONE SIDE ONLY. FOR SKEWED PIPES INTERSECTING BOTH SIDES OF DROP INLET, "W" WILL NEED TO BE INCREASED OR AXIS OF INTERSECTING PIPES WILL NEED TO BE SHIFTED.



SECTION B-B



PLAN



SECTION A-A

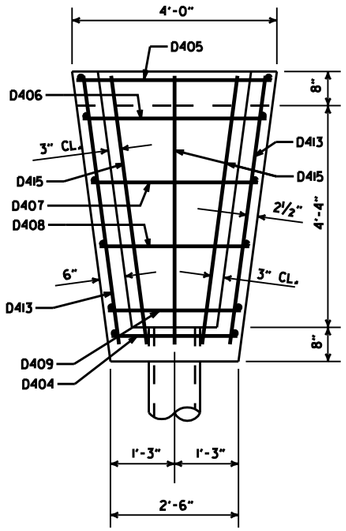
DROP INLET(TYPE RM)

REVISED		DATE FILMED
8-22-02	ADDED & REVISED DIMENSION TO SECTION A-A	
1-12-00	CORRECTED DIMENSION ON SECTION B-B	
11-06-97	ADDED DIMENSION TO SECTION A-A	
10-18-96	REVISED ASTM REF. TO AASHTO AND ADDED NOTE TO TABLE OF "W" DIMENSIONS	
10-1-92	ADDED DIRECTION OF TRAFFIC	10-1-92
8-15-91	ADDED NOTE ABOUT PAINTING OF GRATE	8-15-91
11-30-89	ALTERED DETAIL A	11-30-89
7-15-88	REVISED STEP DETAIL, TM & RM D.I. & GRATE DETAIL	719-7-15-88
10-2-72	REVISED AND REDRAWN	542-10-2-72

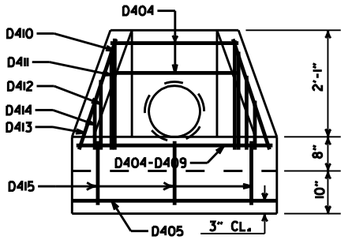
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS

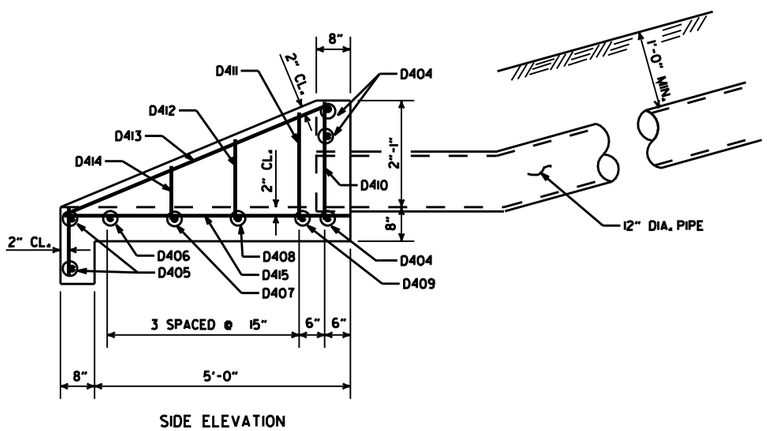
STANDARD DRAWING FPC-9D



PLAN



FRONT ELEVATION

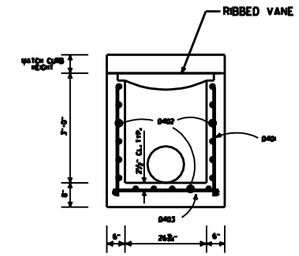


SIDE ELEVATION
CONCRETE SPILLWAY

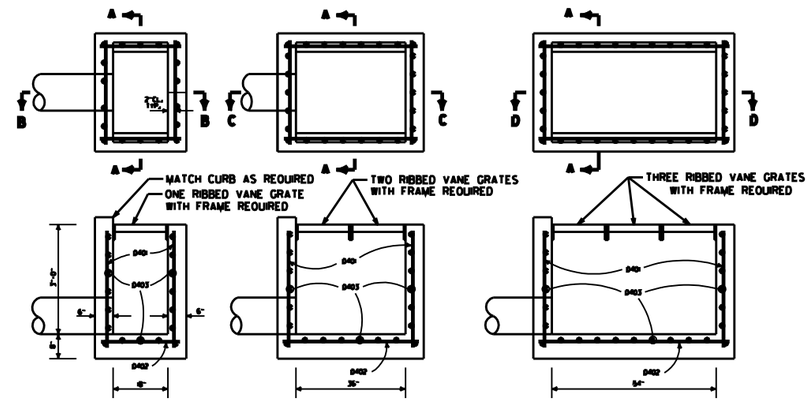
BAR LIST (CONCRETE SPILLWAY)

MARK	NO. REQ'D.	LENGTH	BENDING DIAGRAM
D404	3	2'-2"	5'-4"; 1'-2"; 2" P.D.; D415
D405	2	3'-8"	
D406	1	3'-5"	
D407	1	3'-1"	
D408	1	2'-9"	
D409	1	2'-5"	
D410	2	2'-5"	
D411	2	2'-2"	
D412	2	1'-9"	
D413	2	5'-6"	
D414	2	1'-2"	
D415	3	6'-5"	

DETAILS OF CONCRETE SPILLWAY (TYPE A)



SECTION A-A



SECTION B-B
DETAILS OF DROP INLET
(TYPE N-1)

SECTION C-C
DETAILS OF DROP INLET
(TYPE N-2)

SECTION D-D
DETAILS OF DROP INLET
(TYPE N-3)

BAR LIST (DROP INLET)

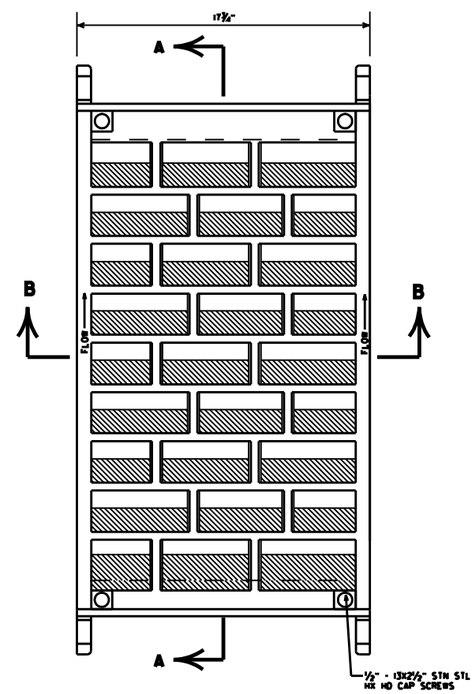
MARK	TYPE N-1		TYPE N-2		TYPE N-3	
	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH
D401	20	3'-0"	26	3'-0"	32	3'-0"
D402	19	2'-2"	19	3'-8"	19	5'-2"
D403	17	2'-11"	20	2'-11"	23	2'-11"

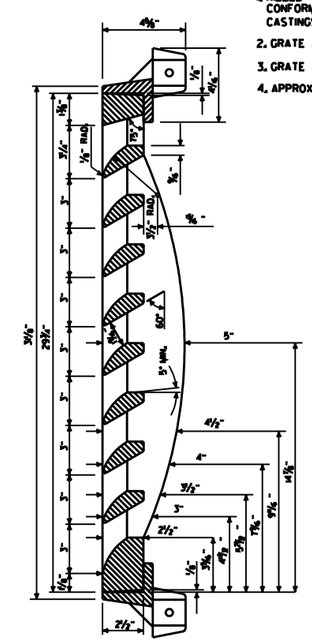
ALL BARS #4 @ 6" SPACING

DETAILS OF DROP INLET

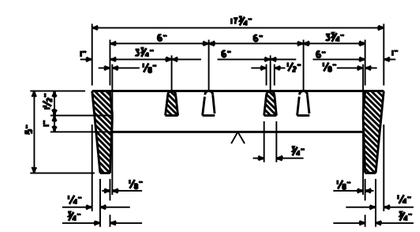
GENERAL NOTES (GRATE & FRAME)

1. RIBBED VANE GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105 CLASS 35B & AASHTO M 306.
2. GRATE AND FRAME SHALL NOT BE PAINTED.
3. GRATE AND FRAME SHALL BE INSTALLED IN DROP INLET IN ASSEMBLED POSITION.
4. APPROXIMATE WEIGHT OF GRATE SHALL BE 170 LBS.

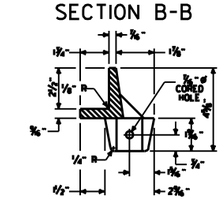




SECTION A-A



SECTION B-B



SECTION THRU FRAME

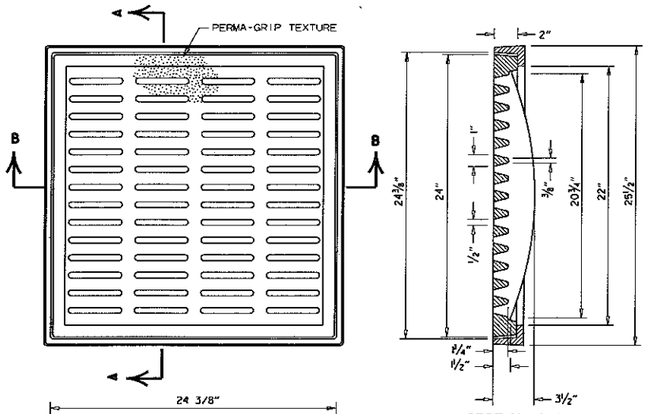
DETAILS OF RIBBED VANE GRATE AND FRAME

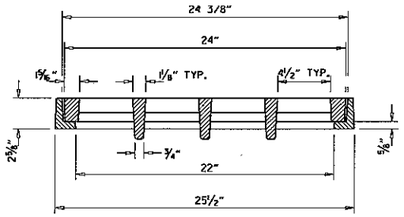
DATE REVISED	DATE FILMED	DESCRIPTION
7-02-98		REVISED SECT. A-A DETAIL OF DROP INLET & ADDED AASHTO REF. TO NOTE 1. REVISED GRATE
10-18-96		REVISED ASTM REF. TO AASHTO
8-15-91		ISSUED

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS AND SPILLWAY OUTLET

STANDARD DRAWING FPC-9N



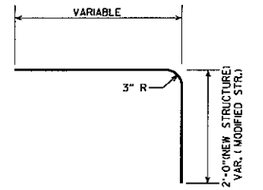


SECTION B-B

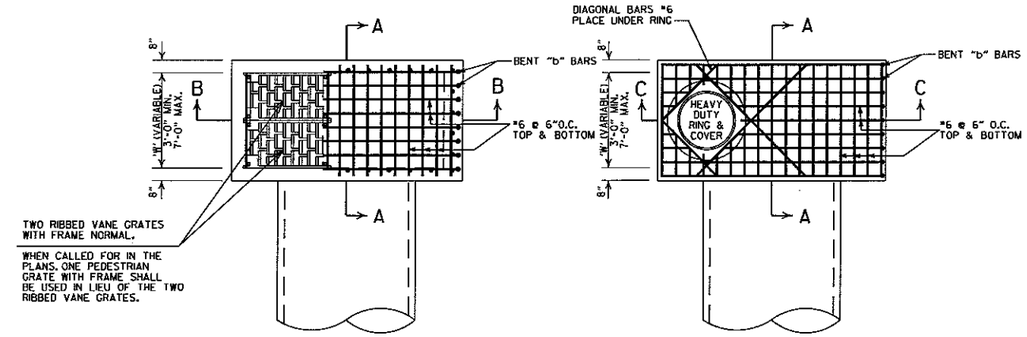
GENERAL NOTES (PEDESTRIAN GRATE & FRAME)

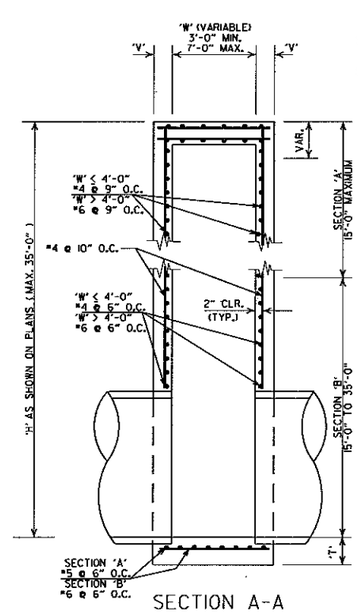
1. THE PEDESTRIAN GRATE SHALL BE ORIENTED IN THE TOP OF THE DROP INLET SO THAT THE 1/2" OPENINGS ARE PERPENDICULAR TO THE PATH OF PEDESTRIAN TRAVEL.
2. THE PEDESTRIAN GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B. & AASHTO M 306.
3. THE GRATE AND FRAME SHALL NOT BE PAINTED.
4. THE GRATE AND FRAME SHALL BE INSTALLED IN THE DROP INLET IN THE ASSEMBLED POSITION.
5. THE APPROXIMATE WEIGHT OF THE GRATE AND FRAME SHALL BE 211 LBS.
6. THE MINIMUM WATERWAY OPENING SHALL BE 122 SQ. IN.

DETAILS OF PEDESTRIAN GRATE AND FRAME



DETAIL OF BENT "b" BAR

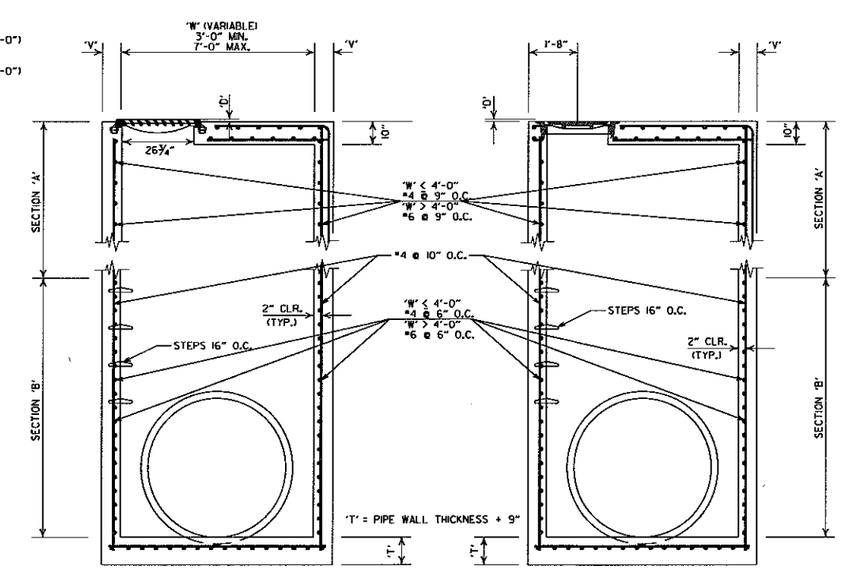




SECTION 'A'
'V' = 8"
SECTION 'B' (W≤4'-0")
'V' = 8"
SECTION 'B' (W>4'-0")
'V' = 10"

SECTION A-A

DETAILS OF DROP INLET (TYPE ST)



SECTION B-B

SECTION C-C

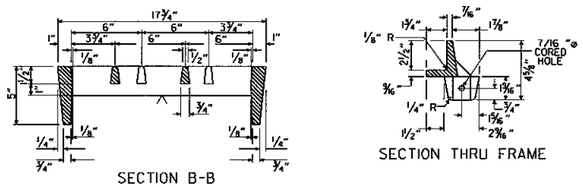
DETAILS OF JUNCTION BOX (TYPE ST)

GENERAL NOTES (TYPE ST DROP INLET & JUNCTION BOX)

1. THE 'D' DIMENSION SHALL MATCH THE FINAL LIFT OF ACHM SURFACE COURSE SHOWN IN THE PLANS WHEN ASPHALT PAVING SURROUNDS THE GRATE OR RING COVER, AND SHALL BE 0" AT OTHER INSTALLATIONS.
2. THE STEPS SHALL BE OMITTED WHERE 'H' IS LESS THAN 4'-0".
3. ALL EXPOSED CORNERS ARE TO HAVE A 3/4" CHAMFER.

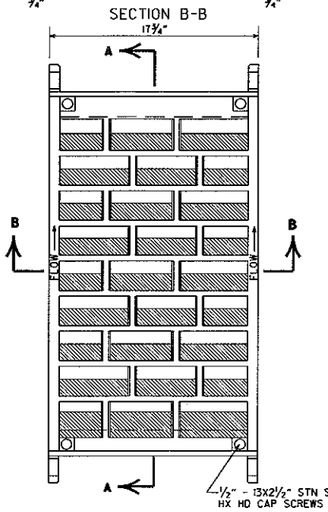
GENERAL NOTES (HEAVY DUTY RING & COVER):

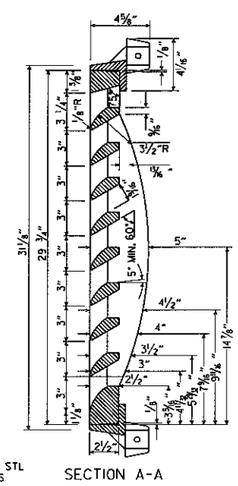
1. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B. & AASHTO M 306.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
4. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.



SECTION B-B

SECTION THRU FRAME



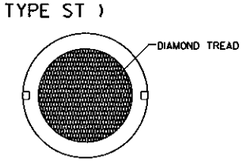


SECTION A-A

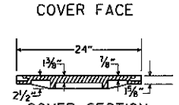
DETAILS OF RIBBED VANE GRATE AND FRAME

GENERAL NOTES (RIBBED VANE GRATE & FRAME)

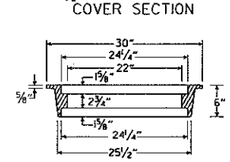
1. RIBBED VANE GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B. & AASHTO M 306.
2. GRATE AND FRAME SHALL NOT BE PAINTED.
3. GRATE AND FRAME SHALL BE INSTALLED IN DROP INLET IN ASSEMBLED POSITION.
4. APPROXIMATE WEIGHT OF GRATE SHALL BE 170 LBS.



COVER FACE



COVER SECTION



RING SECTION

HEAVY DUTY RING & COVER

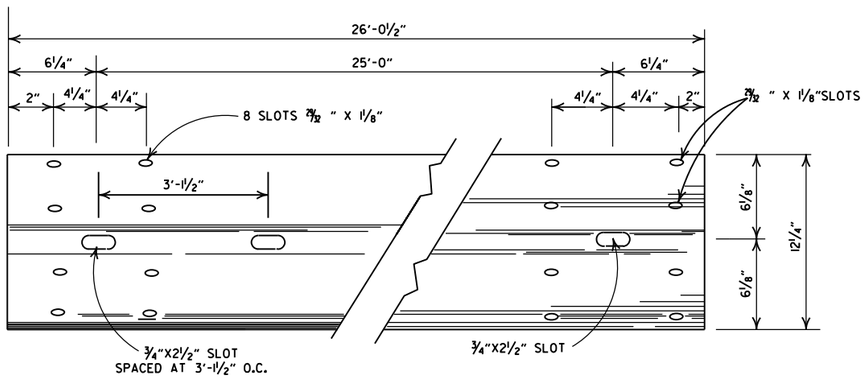
APPROXIMATE TOTAL WEIGHT = 333 LBS.

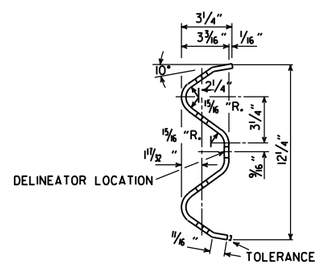
DATE REVISED	DATE FILMED	DESCRIPTION
7-26-12		REMOVED NOTE 4. REVISED 'T'. REVISED BOTTOM SLAB REBAR FOR SECTION 'A'. SHOWED REBAR CLEARANCE IN SECTIONS
11-16-01		ADDED NOTE 4
1-12-00		REVISED HEAVY DUTY RING & COVER
5-13-99		ADDED PEDESTRIAN FRAME & GRATE
7-02-98		REMOVED NOTE 5. REV. DIMENSIONS. ADDED HEAVY DUTY RING & COVER ADDED AASHTO REF. REVISED GRATE
10-18-96		REVISED ASTM REF. TO AASHTO
10-1-92		REVISED & REISSUED
8-15-91	8-15-91	REVISED & REISSUED

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLET & JUNCTION BOX (TYPE ST)

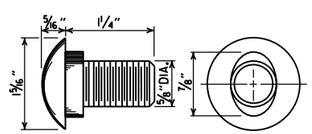
STANDARD DRAWING FPC-9S



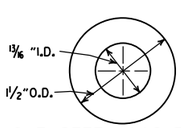


DETAILS OF W-BEAM GUARDRAIL

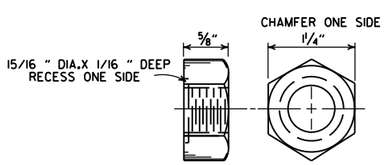
RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.



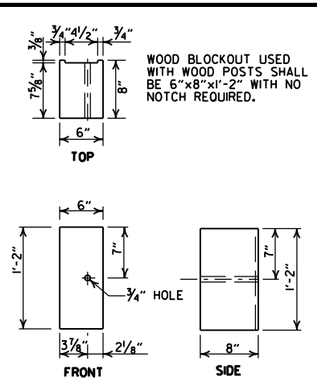
SPLICE BOLT
POST BOLT - SAME EXCEPT LENGTH



CUT STEEL WASHER

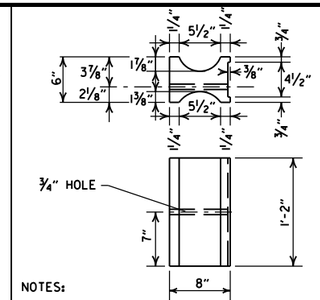


NUT



WOOD BLOCKOUT USED WITH WOOD POSTS SHALL BE 6"x8"x1'-2" WITH NO NOTCH REQUIRED.

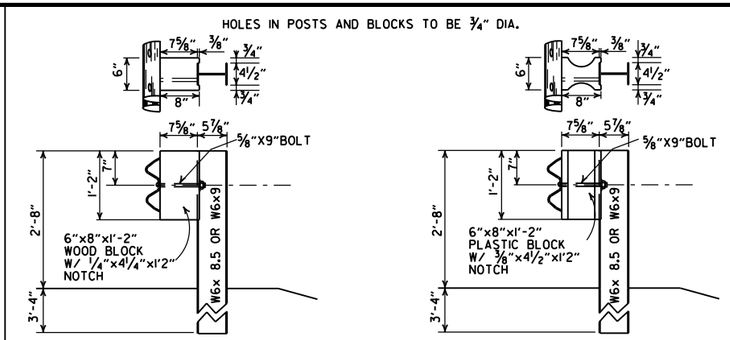
WOOD BLOCKOUT (W-BEAM)



NOTES:

1. SIMILAR SHAPED PLASTIC BLOCKOUTS MAY BE USED AS LONG AS THEY MEET REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
2. DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES.

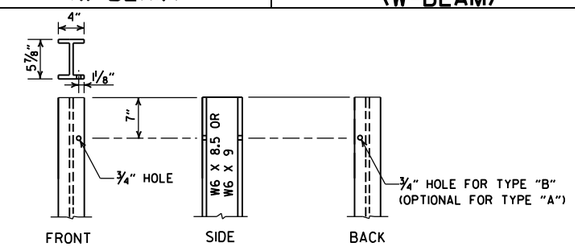
PLASTIC BLOCKOUT (W-BEAM)



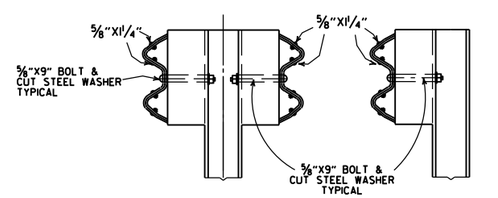
WOOD BLOCKOUT CONNECTIONS

PLASTIC BLOCKOUT CONNECTIONS

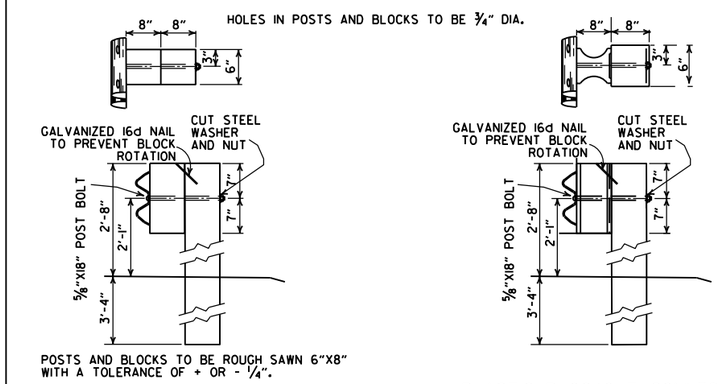
DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)



STEEL POST



DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)



WOOD BLOCKOUT CONNECTIONS

PLASTIC BLOCKOUT CONNECTIONS

DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)

-GENERAL NOTES-

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN ¾" BEYOND IT.

WHERE W-BEAM GUARDRAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.

W-BEAM GUARDRAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED ALONG THE ROADWAY FACE FROM CENTERLINE OF POST TO CENTERLINE OF POST.

USE W-BEAM GUARDRAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB. FOR EXTENSIONS OR MODIFICATION OF EXISTING GUARDRAIL, W-BEAM GUARDRAIL COMPONENTS OF THE SAME TYPE AS THOSE EXISTING SHALL BE USED.

ANY BACKFILLING UNDER OR AROUND POST SHALL BE DAMP SAND THOROUGHLY TAMPED IN PLACE.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

CONTRACTOR SHALL HAVE THE OPTION OF USING WOOD BLOCKOUTS FOR W-BEAM GUARDRAIL OR PLASTIC BLOCKOUTS, AS LONG AS BLOCKOUT USED MEETS REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR W-BEAM GUARDRAIL.

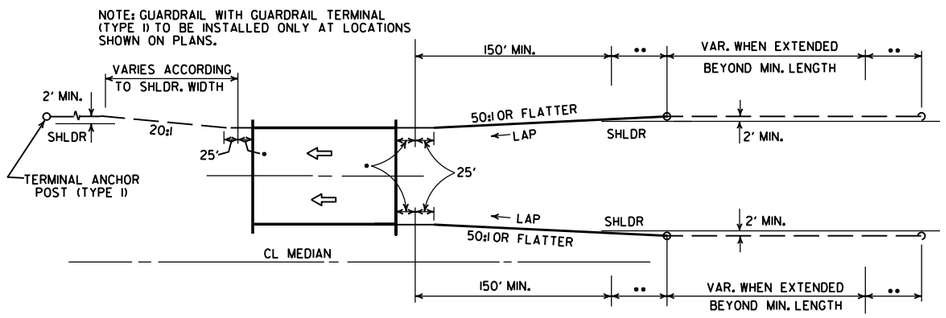
DELINEATORS SHALL BE MOUNTED AT 37.5' SPACING ON THE FRONT FACE OF THE GUARDRAIL. SPACING MAY BE REDUCED IN CURVES, AS DIRECTED BY THE ENGINEER. COLOR SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR DELINEATORS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID PER LIN. FT. FOR GUARDRAIL.

DATE	REVISION	FILMED
05-19-22	REVISED GENERAL NOTES. ADDED DELINEATOR LOCATION.	
11-07-19	RENUMBERED AND RENAMED	
11-16-17	REVISED GENERAL NOTES AND RAISED GUARDRAIL HEIGHT 3"	
07-14-10	RAISED HEIGHT OF GUARDRAIL 1"	
10-15-09	ADDED REFERENCE TO MASH	
04-10-03	REVISED GENERAL NOTES	
08-22-02	REVISED DIMENSION ON WOOD & PLASTIC BLOCKOUT CONNECTIONS & STEEL POST	
11-16-01	REVISED WOOD BLOCKOUT & DETAILS OF WOOD LINE POST CONNECTIONS	
03-30-00	REMOVED GUARDRAIL AT BRIDGE ENDS	
01-12-00	ADDED PLASTIC BLOCKOUT	
08-12-98	REV. BLOCKOUTS TO WOOD. DELETED CONC. POST & REV. GENERAL NOTE. DELETED DET. OF GUARDRAIL REPLACE. BEHIND CURB & DET. OF POST PLACE. IN SOLID ROCK. & ADDED DETAILS OF STEEL LINE POST CONN. REMOVED BACK-UP PLATE. REVISED HOLES IN STEEL POLES	
04-03-97	REMOVED "LAP IN DIRECTION OF TRAFFIC" NOTE & PLACED ARROWS ON WASHERS	
10-18-96	REVISED WOOD POST NOTE	
06-02-94	ADDED ALT. STEEL POST SIZE	
08-05-93	REVISED STEEL POST SIZE	8-5-93
10-01-92	REDRAWN & REVISED	10-1-92
08-15-91	REVISED WASHER NOTE	8-15-91
08-02-90	REV. GEN. NOTE & DEPTH OF ANC. POST IN ROCK	8-2-90
07-15-88	REVISED SECTION 3 & GENERAL NOTES	
03-04-88	REV. ANCHOR POST, ELEV. NOTES & POST IN ROCK	780-3-4-88
10-30-87	REVISED WOOD LINE POST DETAIL	546-10-30-87
10-09-87	REDRAWN & REVISED	802-10-9-87

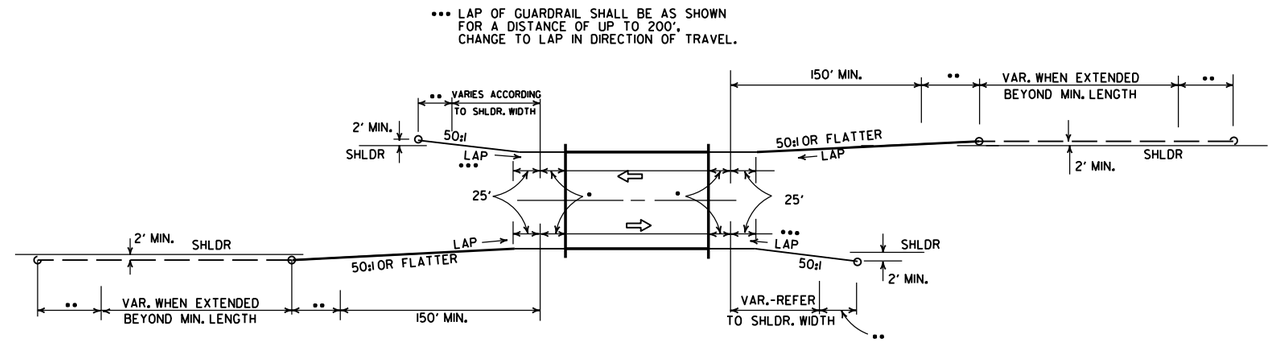
ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

STANDARD DRAWING GR-6



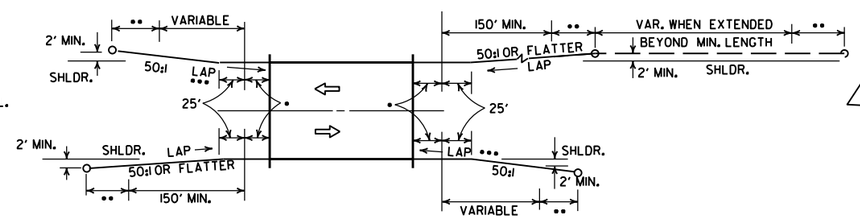
ONE-WAY TRAFFIC



TWO-WAY TRAFFIC

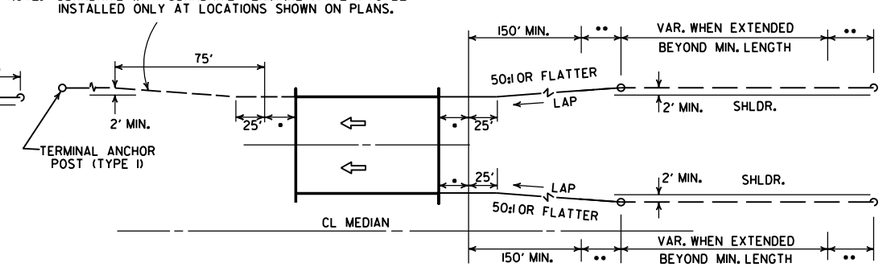
METHODS OF INSTALLATION OF GUARDRAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

••• LAP OF GUARDRAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



TWO-WAY TRAFFIC

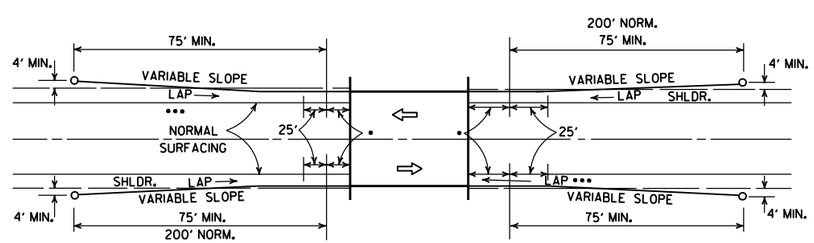
NOTE: GUARDRAIL WITH GUARDRAIL TERMINAL (TYPE I) TO BE INSTALLED ONLY AT LOCATIONS SHOWN ON PLANS.



ONE-WAY TRAFFIC

METHOD OF INSTALLATION OF GUARDRAIL AT FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

••• LAP OF GUARDRAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERMINAL (TYPE I) (FULL SHOULDER WIDTH OR LESS BRIDGES)

LEGEND

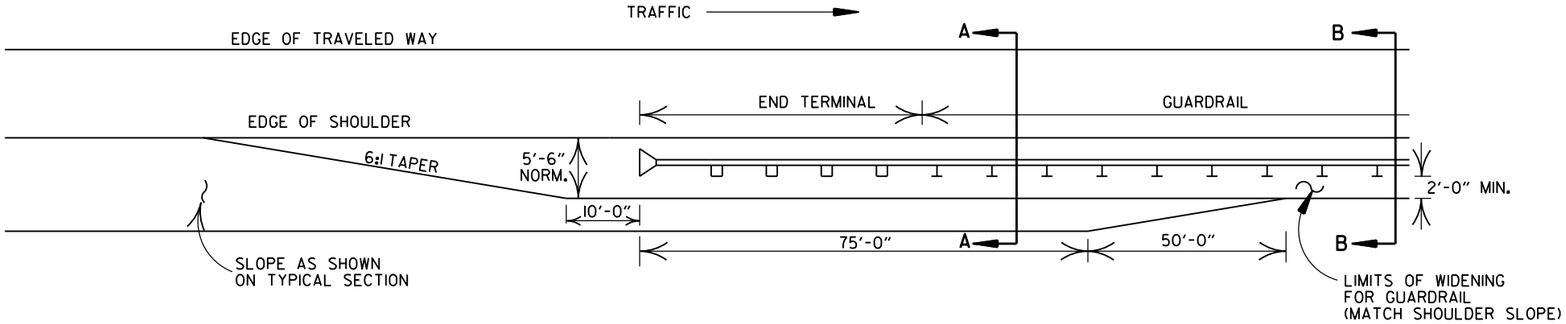
- • THRIE BEAM GUARDRAIL TERMINAL
- •• GUARDRAIL TERMINAL (TYPE 2)

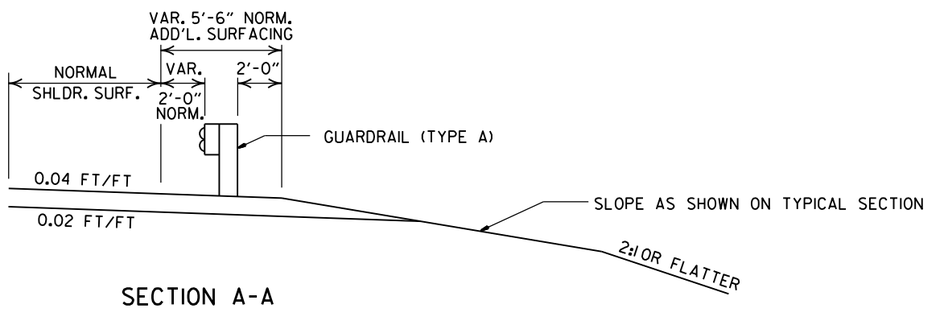
DATE	REVISION	DATE FILM
11-07-19	RENUMBERED AND RENAMED	
4-17-08	REVISED LAYOUTS	
11-10-05	REMOVED GUARDRAIL NOTES AND DETAILS	
11-16-01	DELETED NOTE-METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERM. (TY. I)	
1-12-00	ADDED CONSTRUCTION NOTE	1-12-00
6-26-97	REVISED LAYOUT	
10-1-92	REDRAWN & REVISED	10-1-92
	ADDED NOTE	
10-9-87	REDRAWN & REVISED	

ARKANSAS STATE HIGHWAY COMMISSION

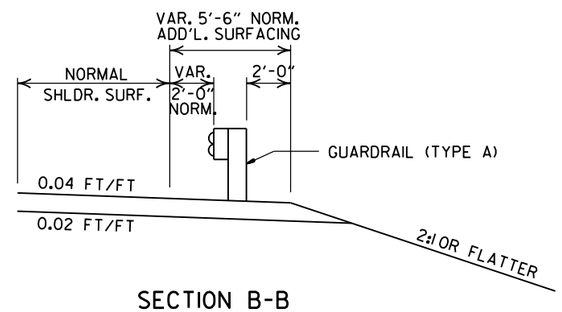
GUARDRAIL DETAILS

STANDARD DRAWING GR-8





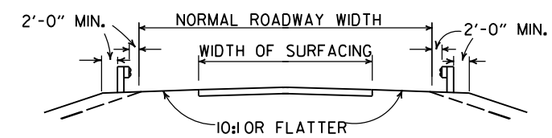
SECTION A-A



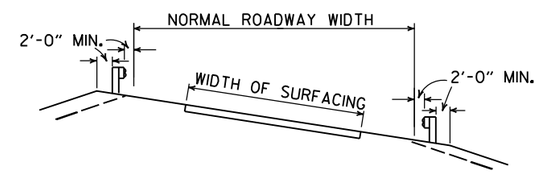
SECTION B-B

DETAILS OF WIDENING FOR GUARDRAIL

NOTE: NORMAL SECTION TO BE WIDENED APPROX. 5'-6" EACH SIDE TO SUPPORT GUARDRAIL.

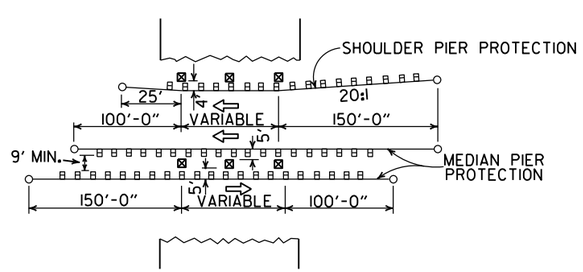


SECTION ON TANGENT



SECTION ON CURVE

DETAILS SHOWING POSITION OF GUARDRAIL ON HIGHWAY



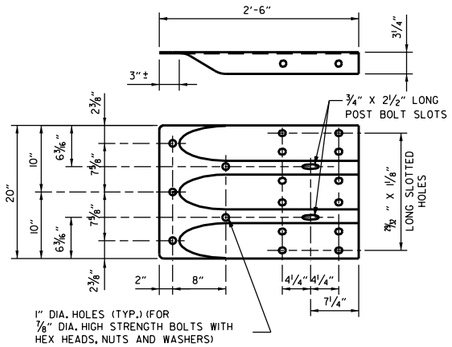
METHOD OF INSTALLATION OF GUARDRAIL AT FIXED OBSTACLE

DATE	REVISION	DATE FILM
11-07-19	RENUMBERED AND RENAMED	
4-17-08	MINOR REVISION	
11-10-05	DRAWN	

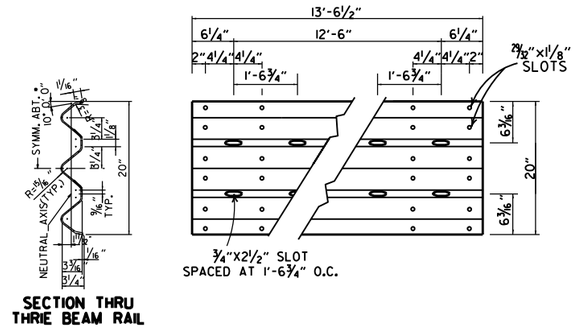
ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

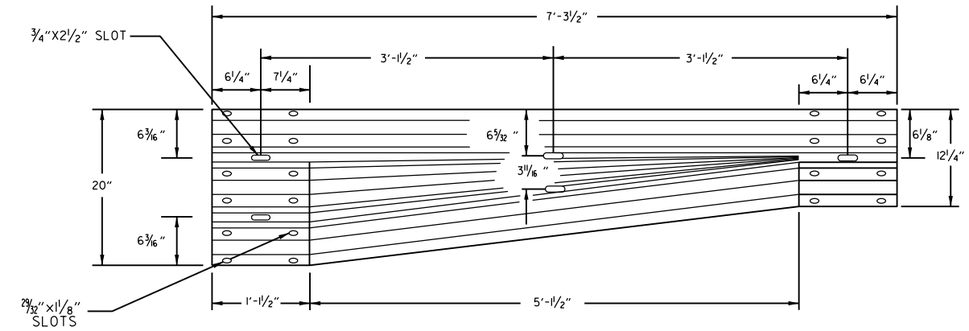
STANDARD DRAWING GR-9



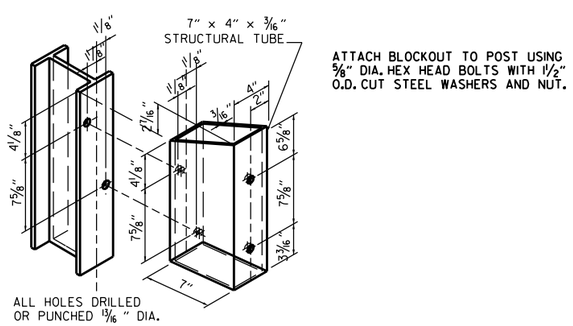
SPECIAL END SHOE



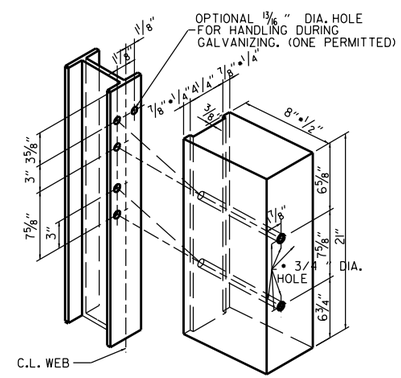
THRIE BEAM RAIL



TRANSITION SECTION



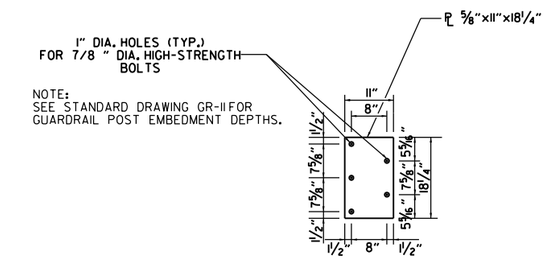
STRUCTURAL STEEL TUBING BLOCKOUT DETAIL



ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED

HOLE PUNCHING DETAIL FOR STEEL POST & WOOD OR PLASTIC BLOCKOUTS

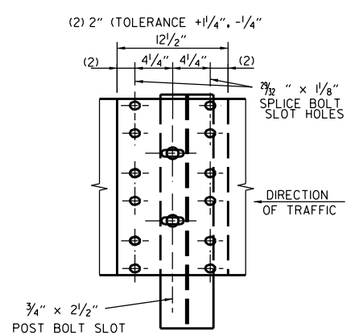
NOTE: BLOCKS SHALL BE THE SAME TYPE THROUGHOUT THE PROJECT LIMITS.



NOTE:
SEE STANDARD DRAWING GR-11 FOR GUARDRAIL POST EMBEDMENT DEPTHS.

CONNECTOR PLATE

CONNECTOR PLATE SHALL BE AASHTO M270, GR. 36 AND SHALL BE GALVANIZED AFTER FABRICATION. GALVANIZING SHALL CONFORM TO SUBSECTION 807.19 OF THE STANDARD SPECIFICATIONS. CONNECTOR PLATE TO BE BOLTED TO SPECIAL END SHOE USING 7/8" DIA. HIGH STRENGTH BOLTS, WITH THE HEADS PLACED ON THE TRAFFIC FACE. WASHERS SHALL BE USED UNDER THE HEAD AND NUT. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AND SHALL CONFORM TO SUBSECTION 807.06.



THRIE BEAM RAIL SPLICE AT POST

GENERAL NOTES:

THE THRIE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE I.

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3*4" BEYOND IT.

ALL LAP SPLICES, INCLUDING SPECIAL END SHOES, SHALL BE MADE IN THE DIRECTION SHOWN ON STANDARD DRAWINGS GR-8 & GR-13.

REFER TO STD. DRWG. GR-11 FOR POST DETAILS.

USE THRIE BEAM GUARDRAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.

THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.

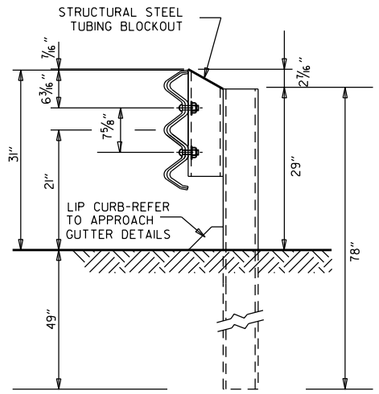
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

DATE	REVISION	FILMED
11-07-19	RENAMED AND REVISED REFERENCES	
11-16-17	REVISED TRANSITION SECTION, GUARD RAIL HEIGHT, AND GENERAL NOTES; MOVED THRIE BEAM GUARD RAIL CONNECTIONS AT BRIDGES ENDS TO STD. DRWG. GR-12	
07-14-10	RAISED HEIGHT OF W-BEAM 1"	
11-29-07	ADDED PLASTIC BLOCKOUTS	
11-10-05	ADDED NOTE FOR ATTACHING STEEL BLOCKOUT	
11-18-04	REVISED GENERAL NOTES	
10-9-03	REVISED GENERAL NOTES	
04-10-03	REVISED GENERAL NOTES	
08-22-02	REVISED NOTE (2)	
06-29-00	MOVED DIMENSION LINES	
05-18-00	ADDED NOTE	
03-30-00	DRAWN & ISSUED	

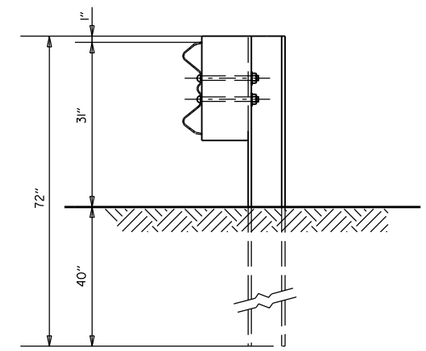
ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

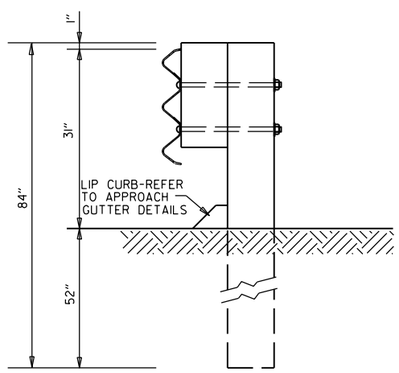
STANDARD DRAWING GR-10



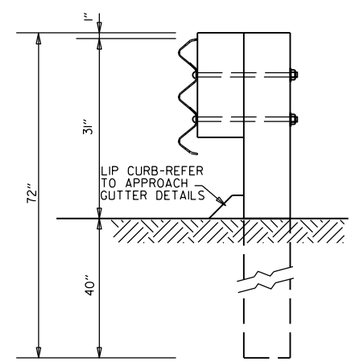
THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT
AND STEEL POST
POSTS 1-7



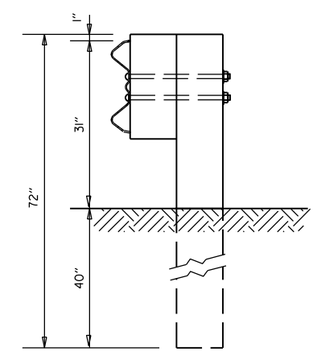
W-BEAM TO THRIE BEAM TRANSITION RAIL
WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST
POST 8



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUTS & WOOD POSTS
POSTS 1-6



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUT & WOOD POST
POST 7



W-BEAM TO THRIE BEAM
TRANSITION RAIL WITH WOOD OR
PLASTIC BLOCKOUT & WOOD POST
POST 8

GENERAL NOTES:

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

DATE	REVISION	FILMED
11-07-19	RENAMED	
11-16-17	REVISED GUARDRAIL HEIGHT, CHANGED STD. DWG. NUMBER FROM GR-10A TO GR-11	
07-14-10	REVISED POST 8 DIMENSIONS	
11-29-07	ADDED PLASTIC BLOCKOUTS	
08-22-02	REVISED LIP CURB NOTE	
03-30-00	DRAWN & ISSUED	

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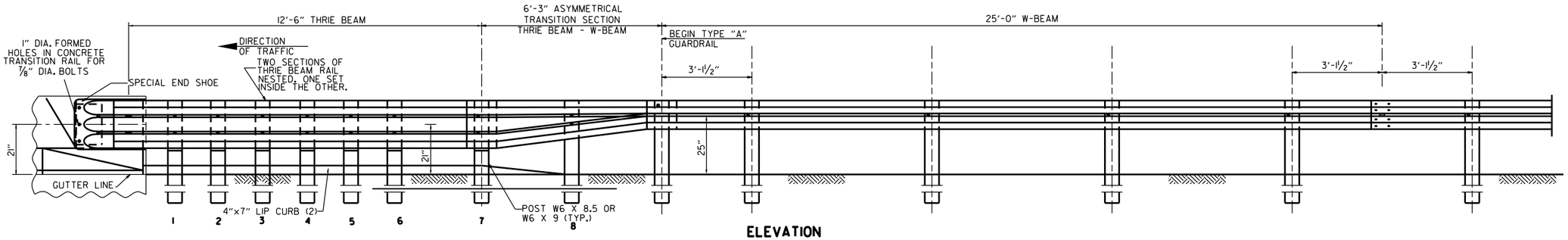
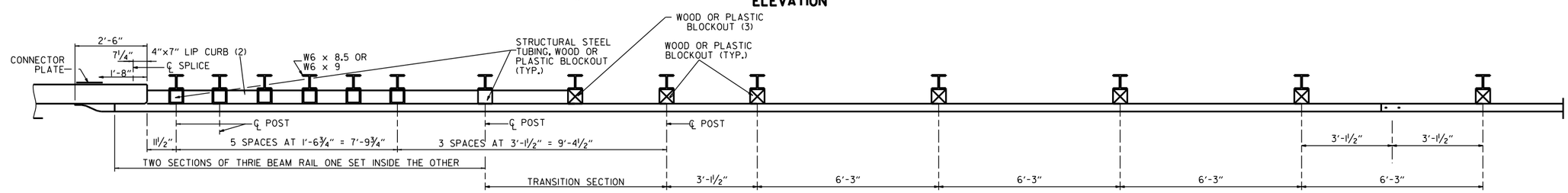
GUARDRAIL DETAILS

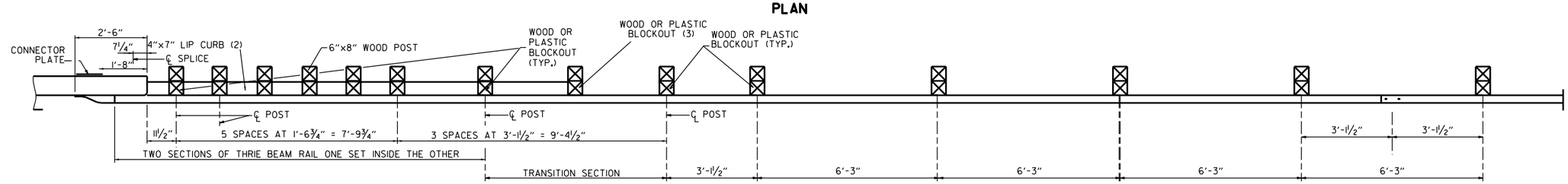
STANDARD DRAWING GR-11



ELEVATION



PLAN



PLAN

(1) VERIFY BOLT SPACING FROM RAIL TRANSITION PRODUCER.
(2) REFER TO APPROACH GUTTER DETAILS.
(3) LENGTH OF BLOCKOUT ON POST 8 TO BE MODIFIED TO FIT RAIL WIDTH.

THRIE BEAM GUARDRAIL CONNECTION AT BRIDGE ENDS

GENERAL NOTES:

THE THRIE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE I.

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.

ALL LAP SPLICES, INCLUDING SPECIAL END SHOES, SHALL BE MADE IN THE DIRECTION SHOWN ON STANDARD DRAWINGS GR-8 & GR-13.

REFER TO STD. DRWG. GR-11 FOR POST DETAILS.

USE THRIE BEAM GUARDRAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.

THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.

POSTS SHALL NOT BE PLACED AT SPLICE LOCATIONS ALONG W-BEAM RAILS.

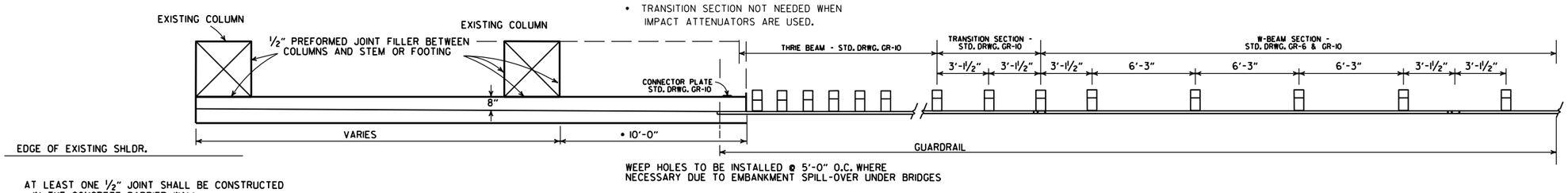
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

DATE	REVISION	FILMED
05-14-20	REVISED NOTES	
11-07-19	RENAMED & REVISED REFERENCES	
11-16-17	RE-DRAWN FROM STD. DWG. GR-10 & ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

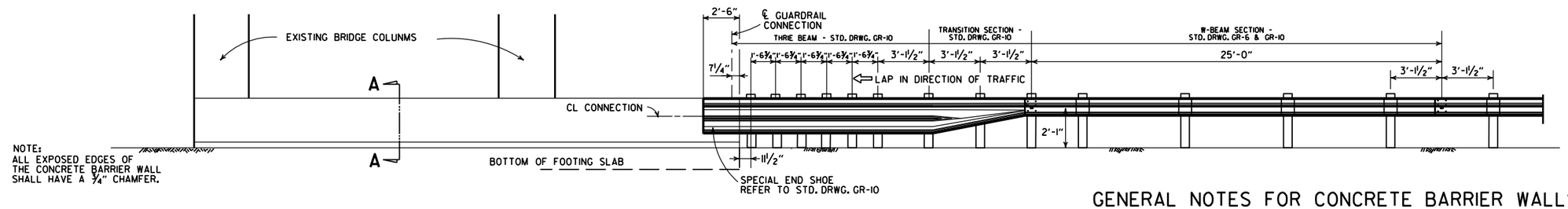
GUARDRAIL DETAILS

STANDARD DRAWING GR-12



AT LEAST ONE 1/2" JOINT SHALL BE CONSTRUCTED IN THE CONCRETE BARRIER WALL. JOINTS SHALL BE EQUALLY SPACED AT A MAXIMUM OF 25'-0" O.C. FILL JOINT WITH PREFORMED JOINT FILLER.

PLAN OF CONCRETE BARRIER WALL

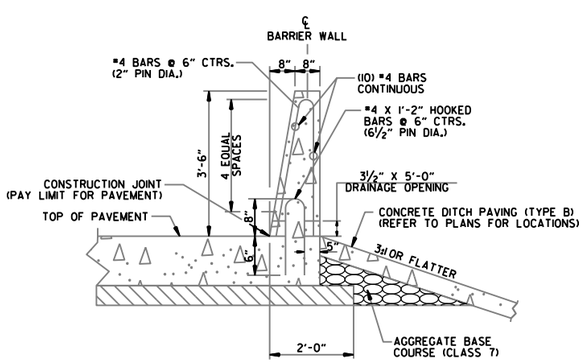


NOTE:
ALL EXPOSED EDGES OF THE CONCRETE BARRIER WALL SHALL HAVE A 3/4" CHAMFER.

ELEVATION OF CONCRETE BARRIER WALL

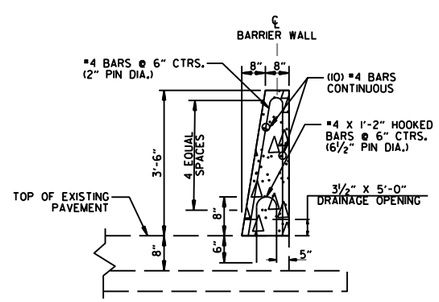
GENERAL NOTES FOR CONCRETE BARRIER WALLS

1. ALL BARRIER WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 631 OF THE STANDARD SPECIFICATIONS, 2014 EDITION.
2. CONTRACTION JOINTS REQUIRED @ 15'-0" MAXIMUM SPACING FOR BARRIER TYPES MEDIAN A, SIDE A. A 30'-0" MAXIMUM SPACING IS REQUIRED FOR TYPES MEDIAN C, SIDE C, D & E.
3. ALL CONTRACTION JOINTS TO BE FORMED IN FRESH CONCRETE ON TOP AND IN SIDES OF BARRIER WALL.
4. DOWEL BARS FOR BARRIER TYPES MEDIAN A, SIDE A WILL NOT BE REQUIRED IF BARRIER AND MINIMUM 4' WIDE BASE ARE CAST AS A COMPLETE UNIT.
5. CONTRACTION JOINTS ARE NOT PERMITTED AT THE DOWEL BAR LOCATIONS.
6. ALL EXPOSED EDGES OF CONCRETE BARRIER WALL SHALL HAVE A 3/4" CHAMFER.
7. THE DESIGN OF BARRIER WALL TYPES SIDE C, D & E IS BASED ON A MINIMUM FOUNDATION BEARING CAPACITY OF ONE TON PER SQUARE FOOT. UNSTABLE FOUNDATION MATERIAL SHALL BE REMOVED AND REPLACED TO PROVIDE A FIRM FOUNDATION AS DIRECTED BY THE ENGINEER.
8. SPACING BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 400 FT FOR BARRIER TYPES MEDIAN A AND SIDE A OR 120 FT FOR BARRIER TYPES SIDE C, D & E. EXPANSION JOINTS SHALL BE FORMED USING 1" PREFORMED JOINT FILLER. CONTINUOUS REINFORCEMENT SHALL BE CUT 2" CLEAR OF EXPANSION JOINTS.
9. CONSTRUCT DRAINAGE OPENINGS AT EVERY 50' O.C. AND AT SAGS IF SHOWN ON THE PLANS. DOWEL BARS SHALL NOT BE PLACED WITHIN 3" OF DRAINAGE OPENINGS.
10. MAINTAIN 3" CLEARANCE ON ALL FOOTING REINFORCEMENT AND 2" CLEARANCE ON ALL OTHER REINFORCEMENT.
11. REFER TO BARRIER MOUNTED LUMINARE SPECIAL DETAILS FOR INFORMATION REGARDING CONDUIT IN CONCRETE BARRIER WALLS. REFER TO ILLUMINATION LAYOUT FOR LOCATIONS OF CONDUIT RUNS.
12. BARRIER REINFORCING BARS ANCHORED INTO EXISTING CONCRETE PAVEMENT SHALL BE INSTALLED AND SECURED ACCORDING TO 804.06 USING AN APPROVED ANCHORING SYSTEM FROM OPL.



SECTION A-A
CONCRETE BARRIER WALL
(SIDE TYPE A)

NOTE: SIDE TYPE A IS FOR USE WITH PROPOSED PAVEMENT.



SECTION A-A
CONCRETE BARRIER WALL
(SIDE TYPE A-1)

NOTE: SIDE TYPE A-1 IS FOR USE WITH EXISTING PAVEMENT.

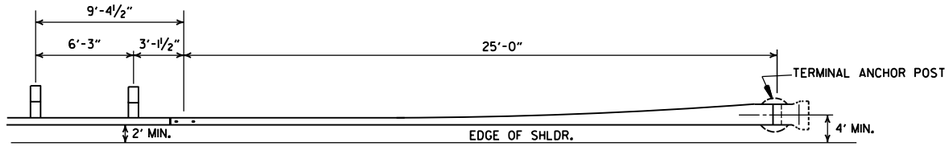
NOTE:
THE COST FOR THE MODIFICATION OF THE BARRIERS AND DROP INLETS ARE TO BE SUBSIDIARY TO CONCRETE BARRIER WALLS AND CURBS.

DATE	REVISION	FILMED
11-07-19	ADDED GENERAL NOTES.	
11-16-17	REVISED CONCRETE BARRIER WALL. RAISED GUARDRAIL HEIGHT 3" AND REVISED POST SPACING. CHANGED STD. DWG. NUMBER FROM GR-11 TO GR-13	
07-14-10	RAISED HEIGHT OF W-BEAM 1"	
08-22-02	REV. SECTION A-A OF DETAILS OF CONCRETE BARRIER WALL	
06-29-00	MOVED DIMENSION LINE	
05-18-00	ADDED NOTE	
03-30-00	REVISED TO INCLUDE THRIE BEAM	
06-02-94	ADDED TRANSITION SECTION NOTE	
10-01-92	REDRAWN & REVISED	10-1-92
08-15-91	REVISED DRAWING PLAN CONC. BARR.	8-15-91
02-16-89	ADDED SKEWED DETAILS	594-2-16-89
07-14-88	CHANGED TITLE	
10-09-87	REDRAWN & REVISED	

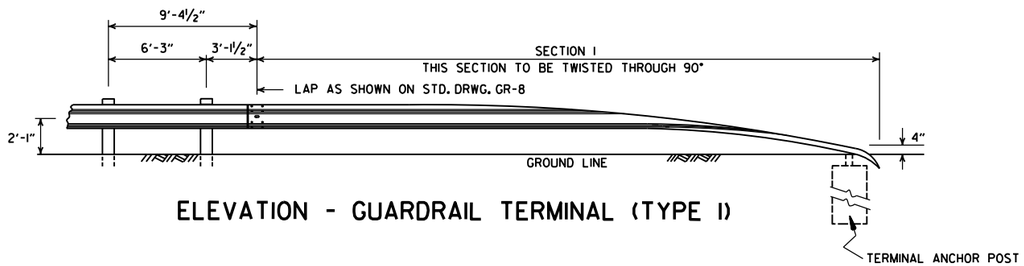
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE BARRIER WALL
(PIER PROTECTION TYPE A)

STANDARD DRAWING GR-13

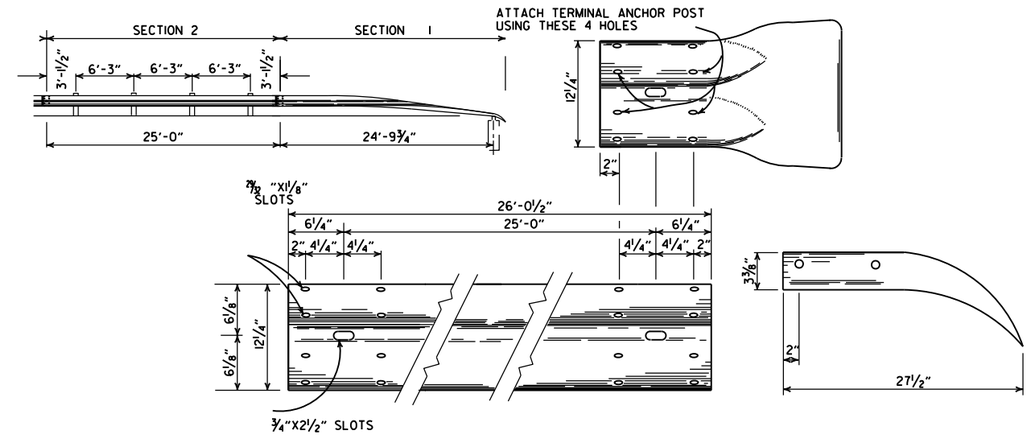


PLAN - GUARDRAIL TERMINAL (TYPE I)



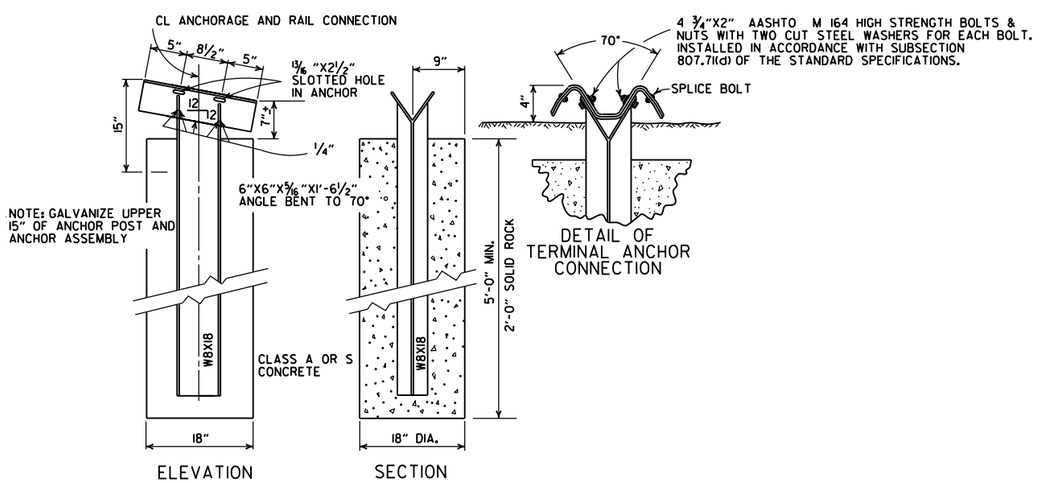
ELEVATION - GUARDRAIL TERMINAL (TYPE I)

NOTE:
SECTIONS 1 AND 2 OF GUARDRAIL TERMINAL
SHALL BE PAID FOR AT THE PRICE BID PER
LINEAR FOOT OF THE TYPE OF GUARDRAIL SPECIFIED.



SECTION 1

TERMINAL SECTION



NOTE: RAIL MEMBERS MAY BE BOLTED TO ANGLE AT TERMINAL ANCHOR AND THE TWO ASSEMBLIES POSITIONED TO PROPER ALIGNMENT PRIOR TO PLACING CONCRETE AROUND 8 WF 17 POST IF CONTRACTOR SO DESIRES.

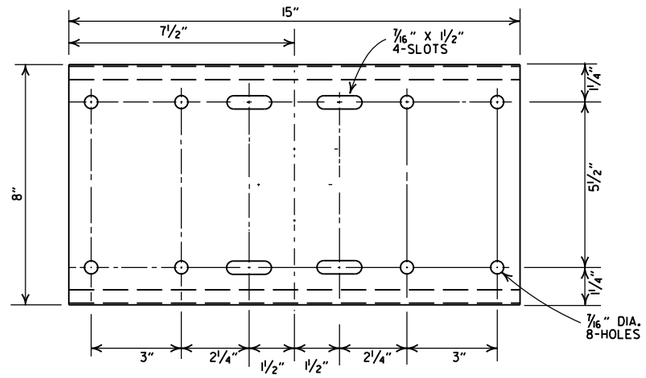
DETAIL OF TERMINAL ANCHOR POST (TYPE I)

DATE	REVISION	FILMED
11-07-19	RENAMED & REVISED REFERENCE.	
11-16-17	REVISED GUARDRAIL HEIGHT AND LOCATION OF POSTS	
07-14-10	RAISED HEIGHT OF GUARDRAIL 1"	
06-26-97	REVISED LAP NOTE	
10-18-96	REVISED ASTM REF. TO AASHTO	
11-03-94	DIMENSION TERMINAL DETAIL	
11-11-92	ADDED NOTE FOR PAYMENT	11-11-92
10-01-92	DRAWN & ISSUED	10-1-92

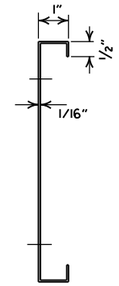
ARKANSAS STATE HIGHWAY COMMISSION

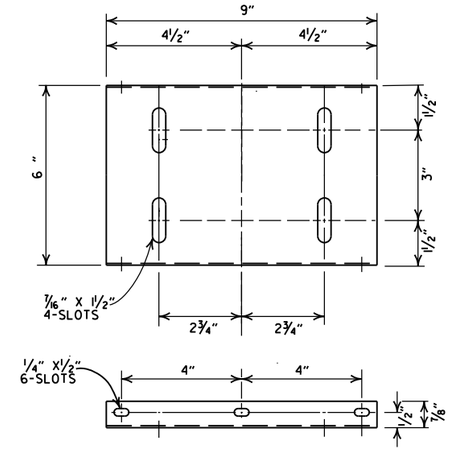
GUARDRAIL DETAILS

STANDARD DRAWING GRT-1

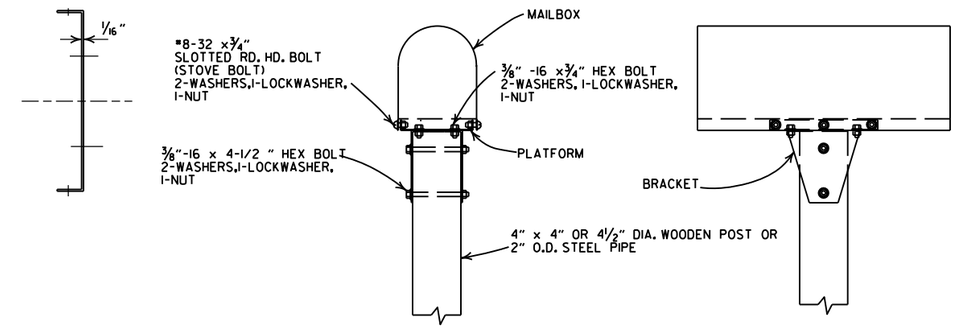


SHELF

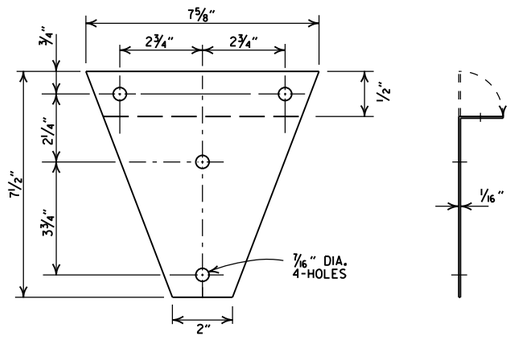




PLATFORM



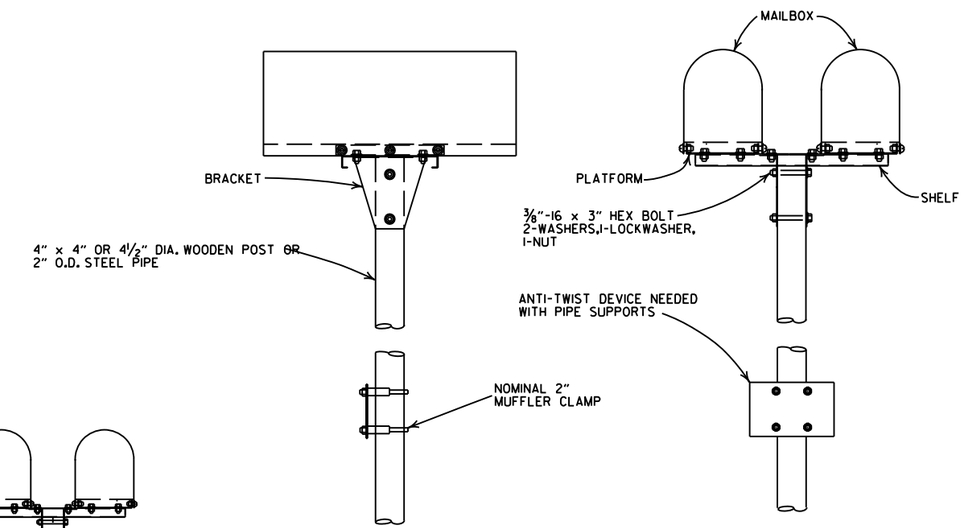
SINGLE INSTALLATION



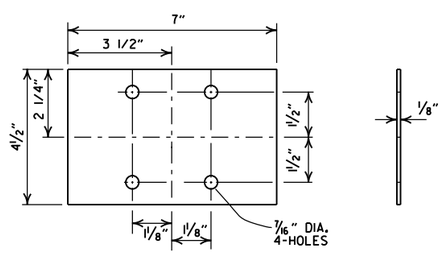
BRACKET

GENERAL NOTES

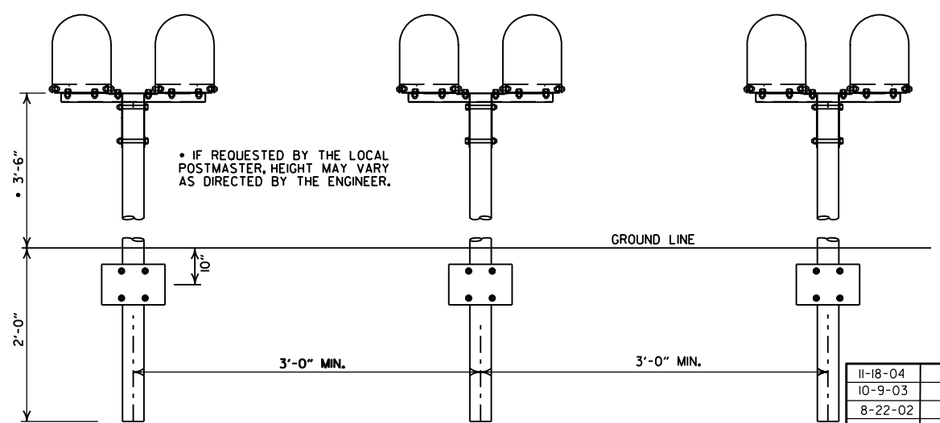
1. MAILBOX POSTS MAY BE WOOD OR METAL. WOOD POSTS SHALL BE PRESSURE TREATED FOR GROUND CONTACT IN ACCORDANCE WITH SECTION 637.02 OF THE STANDARD SPECIFICATIONS.
2. ANTI-TWIST PLATES SHALL BE USED ONLY ON METAL POSTS.
3. MAILBOX SHELF, BRACKET & PLATFORM SHALL BE GALVANIZED OR PAINTED STEEL, HOWEVER TREATED WOOD MAY BE USED WITH WOODEN POSTS. THE WOODEN SHELF, BRACKET & PLATFORM SHALL BE A MINIMUM OF ¾" THICK AND SHALL BE ASSEMBLED WITH BOLTS OF THE APPROPRIATE LENGTH WITH SIX 8 X ¾" FLATHEAD WOOD SCREWS USED TO ATTACH THE MAILBOX TO THE PLATFORM.
4. THE MAILBOX SHELF AND PLATFORM THAT IS SHOWN IS FOR STANDARD SIZE MAILBOXES. THE SHELF AND PLATFORM SIZE SHALL BE MODIFIED TO FIT MAILBOXES OF A DIFFERENT SIZE.
5. METAL PIPE FOR MAILBOX SUPPORT SHALL BE 2" OUTSIDE DIAMETER STEEL WITH A WALL THICKNESS OF 0.145" AND A WEIGHT OF 2.72 LBS PER FT. OUTSIDE DIAMETER AND WEIGHT SHALL HAVE A TOLERANCE OF +/- 5% ACCORDING TO AASHTO M 181.
6. MAILBOX SUPPORT SYSTEM DIFFERING FROM THOSE SHOWN MAY BE USED, PROVIDED THEY ARE ON THE ARDOT QUALIFIED PRODUCTS LIST FOR MAILBOX SUPPORTS.



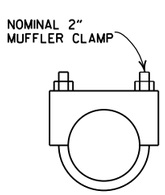
DOUBLE INSTALLATION



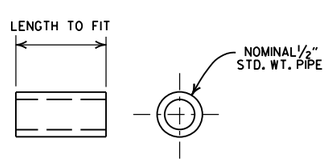
ANTI-TWIST PLATE



SPACING FOR MULTIPLE POST INSTALLATION



CLAMP



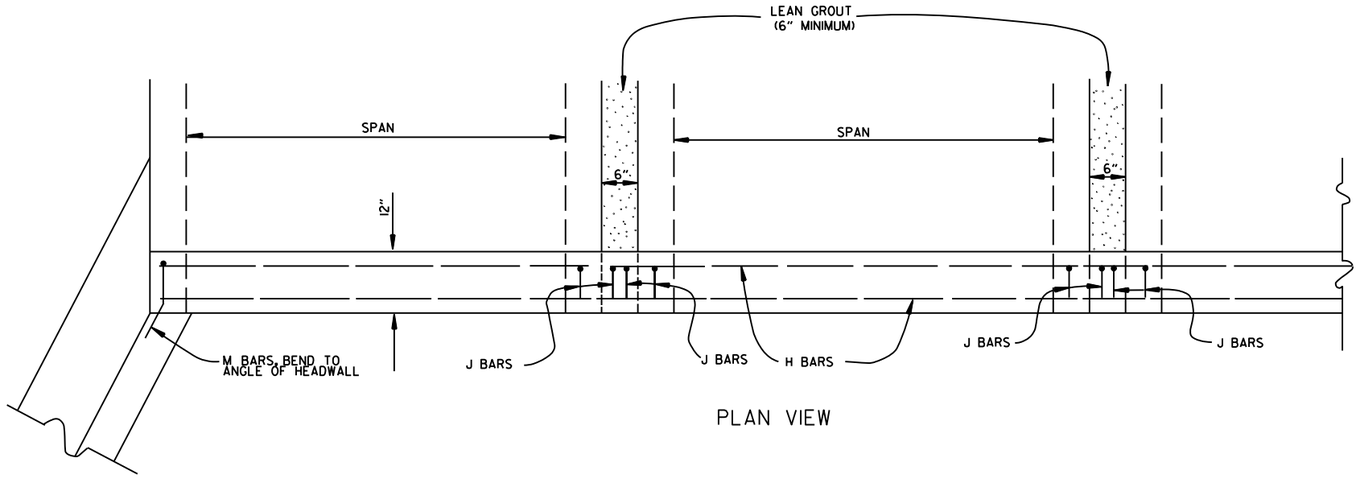
SPACER

DATE	FILMED	REVISION
11-18-04		REVISED NOTES
10-9-03		REVISED NOTE 6
8-22-02		REVISED NOTE 6
10-18-96		CORRECTED AASHTO
10-1-92		CORRECTED SPELLING
9-26-91		NEW PHONE NUMBER
8-15-91		ADDED NOTE
11-30-89		ADJUSTED HEIGHT & ADDED NOTE
2-16-89		DELETED SLOTS FROM SHELF & PLTF
11-17-88	10-1-92	ADJUSTED DIMENSIONS OF STEEL POSTS
7-15-88	20-7-15-88	ISSUED

ARKANSAS STATE HIGHWAY COMMISSION

MAILBOX DETAILS

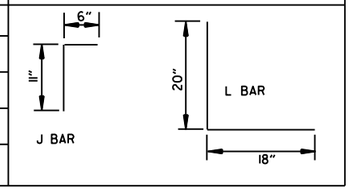
STANDARD DRAWING MB-1



PLAN VIEW

BAR LIST

BAR	NO.	SIZE	LENGTH	BAR BENDING DIAGRAM
H	2	#4	•	
I	•	#4	•	
J	•	#4	1'-5"	
L	•	#4	3'-2"	
M	•	#4	1'-8"	



• NOTE: LENGTH AND NUMBER OF BARS VARIES WITH SIZE OF CULVERT

GENERAL NOTES

WINGS, CURTAIN WALLS AND APRONS SHALL BE TIED TO THE PRECAST CULVERT SECTION BY CASTING BARS IN CULVERT END SECTIONS AS SHOWN OR BY DOWELING AND GROUTING. J BARS AND M BARS SHALL BE EMBEDDED A MINIMUM OF 10" IN PRECAST BOX.

WINGS, FOOTINGS, APRONS AND CURTAIN WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE WING DRAWING. STEEL AND CONCRETE QUANTITIES WILL BE ADJUSTED TO FIT THE IN-PLACE WIDTH & HEIGHT OF THE PRECAST CONCRETE BOX CULVERTS.

ALL EXPOSED CORNERS TO HAVE ¾" CHAMFERS.

WINGWALLS AND FOOTINGS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.

ALL CONCRETE, REINFORCING STEEL, LEAN GROUT, MEMBRANE WATERPROOFING, DRAINAGE FILL MATERIAL, GEOTEXTILE FILTER FABRIC, LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR INSTALLING PRECAST BOX CULVERTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR THE ITEMS AS SPECIFIED IN SECTION 607 OF THE STANDARD SPECIFICATIONS.

LEAN GROUT SHALL CONSIST OF A SAND CEMENT MIXTURE MEETING THE FOLLOWING REQUIREMENTS:
PORTLAND CEMENT SHALL BE TYPE I AND SHALL MEET THE REQUIREMENTS OF AASHTO M 85.
SAND SHALL MEET THE REQUIREMENTS OF FINE AGGREGATE AS SPECIFIED IN SECTION 802.02 OF THE STANDARD SPECIFICATIONS.
THE SAND CEMENT MIXTURE SHALL CONSIST OF NOT LESS THAN 1.5 SACKS OF PORTLAND CEMENT PER TON OF MATERIAL MIXTURE.
THE MIXTURE SHALL CONTAIN SUFFICIENT WATER TO HYDRATE THE CEMENTS. THE SAND CEMENT MIXTURE SHALL BE PLACED IN MAXIMUM 8 INCH THICK LIFTS, LOOSE MEASURE, AND THOROUGHLY RODDED AND TAMPED AROUND BOX TO THOROUGHLY FILL ALL VOIDS.

MEMBRANE WATERPROOFING CONFORMING TO THE REQUIREMENTS OF SECTION 815 OF THE STANDARD SPECIFICATIONS SHALL BE APPLIED TO ALL BOX CULVERT JOINTS.

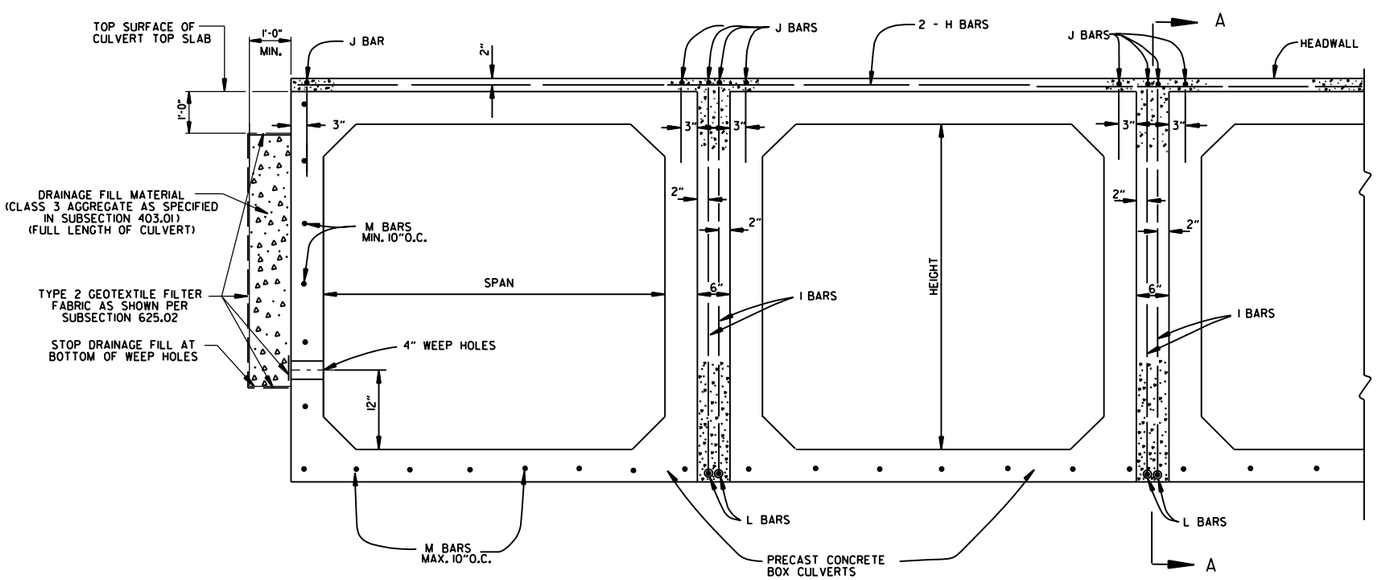
THE MEMBRANE WATERPROOFING WILL BE REQUIRED ON THE TOP EXTERNAL JOINT AND SHALL EXTEND 1 FOOT DOWN THE SIDES OF THE CULVERT.

IN OUTER BARRELS, ONE WEEP HOLE IS REQUIRED IN EXTERIOR WALLS OF EACH PRECAST CULVERT SECTION. WEEP HOLES SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 10'-0" IN THE ASSEMBLED CULVERT AND SHALL BE SPACED TO CLEAR ALL REINFORCING STEEL. THE DRAIN OPENING SHALL BE 4" DIAMETER AND SHALL BE PLACED 12" ABOVE THE TOP OF THE BOTTOM SLAB.

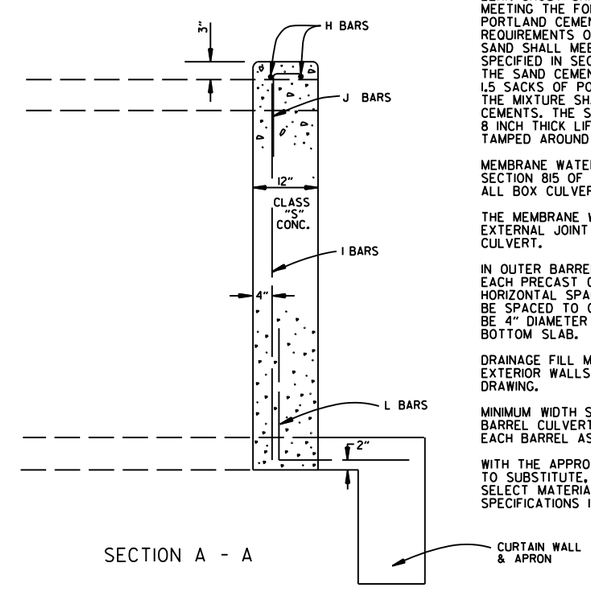
DRAINAGE FILL MATERIAL WITH GEOTEXTILE FABRIC IS REQUIRED AT THE EXTERIOR WALLS OF THE ASSEMBLED CULVERT, SEE DETAILS ON THIS DRAWING.

MINIMUM WIDTH SHALL BE 12" (6" ON EACH SIDE OF JOINT). ON MULTIPLE BARREL CULVERTS, MEMBRANE WATERPROOFING SHALL BE APPLIED TO EACH BARREL AS DESCRIBED ABOVE.

WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE, AT NO ADDITIONAL COST TO THE DEPARTMENT, FLOWABLE SELECT MATERIAL CONFORMING TO SECTION 206 OF THE STANDARD SPECIFICATIONS IN LIEU OF LEAN GROUT.



END VIEW



SECTION A - A

DATE	REVISION	DATE FILMED
1-28-15	REVISED GEOTEXTILE FABRIC PLACEMENT	
12-15-11	ADDED NOTE & DTLS FOR WEEP HOLE AND DRAINAGE FILL	
10-15-09	ADDED GENERAL NOTE	
11-10-05	REVISED SPACING OF "M" BARS	
4-10-03	REVISED GENERAL NOTES	
10-18-96	CORRECTED AASHTO REF.	
10-1-92	ADDED NOTE FOR MEMBRANE WATERPROOFING	
8-15-91	ADDED NOTE FOR LEAN GROUT	
11- 8-90	REVISED FOR 1991 SPECS	
11-30-89	ISSUED: JABE	

ARKANSAS STATE HIGHWAY COMMISSION

PRECAST CONCRETE BOX CULVERTS

STANDARD DRAWING PBC-1

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV. DIA.	SPAN		RISE	
	AASHTO M 206	ARDOT NOMINAL	AASHTO M 206	ARDOT NOMINAL
INCHES	INCHES			
15	18	18	11	11
18	22	22	13½	14
21	26	26	15½	16
24	28½	29	18	18
30	36¼	36	22½	23
36	43⅜	44	26⅝	27
42	51⅛	51	31⅝	31
48	58½	59	36	36
54	65	65	40	40
60	73	73	45	45
72	88	88	54	54
84	102	102	62	62
90	115	115	72	72
96	122	122	77½	77
108	138	138	87⅛	87
120	154	154	96⅞	97
132	168¾	169	106½	107

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206.

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

EQUIV. DIA.	AASHTO M 207	
	SPAN	RISE
INCHES	INCHES	
18	23	14
24	30	19
27	34	22
30	38	24
33	42	27
36	45	29
39	49	32
42	53	34
48	60	38
54	68	43
60	76	48
66	83	53
72	91	58
78	98	63
84	106	68

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M207.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE MIDDLE OF THE PIPE.
5. COMPLETE BACKFILL ACCORDING TO SUBSECTION 606.03.(f)(1).

NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPE.

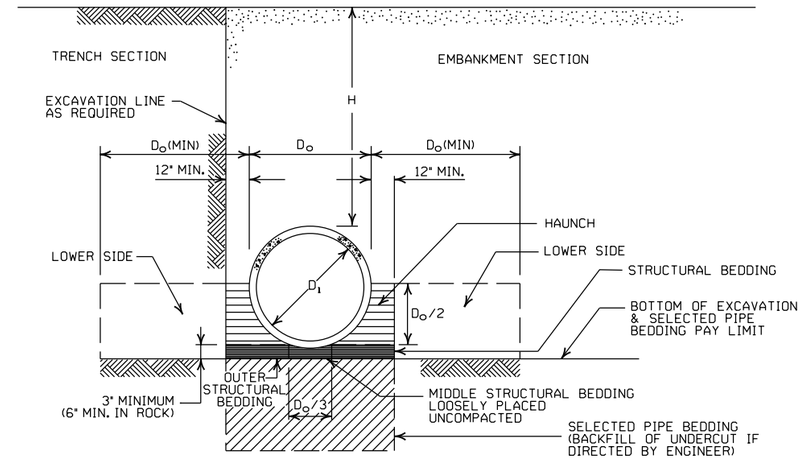
- LEGEND -

D_1 = NORMAL INSIDE DIAMETER OF PIPE
D_O = OUTSIDE DIAMETER OF PIPE
H = FILL COVER HEIGHT OVER PIPE (FEET)
MIN. = MINIMUM
= UNDISTURBED SOIL

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR HAUNCH AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 5 OR CLASS 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL*
TYPE 3**	AASHTO CLASSIFICATION A-1 THRU A-6 SOIL OR TYPE 1 OR 2 INSTALLATION MATERIAL

* SM-3 WILL NOT BE ALLOWED.

** MATERIALS SHALL NOT INCLUDE ORGANIC MATERIALS OR STONES LARGER THAN 3 INCHES.



EMBANKMENT AND TRENCH INSTALLATIONS

1. MATERIAL IN THE HAUNCH AND OUTER STRUCTURAL BEDDING SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. FOR TRENCHES WITH WALLS OF NATURAL SOIL, THE DENSITY OF THE SOIL IN THE LOWER SIDE ZONE SHALL BE AS FIRM AS THE 95% DENSITY REQUIRED FOR THE HAUNCH. IF THE EXISTING SOIL DOES NOT MEET THIS CRITERIA, IT SHALL BE REMOVED AND RECOMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OF MATERIAL USED.
3. FOR EMBANKMENTS, THE MATERIAL IN THE LOWER SIDE ZONE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

MINIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

	CLASS OF PIPE			
	CLASS III		CLASS IV	CLASS V
INSTALLATION TYPE	TYPE 1 OR 2	TYPE 3	ALL	ALL
PIPE ID (IN.)	FEET			
12-15	2	2.5	2	1
18-24	2.5	3	2	1
27-33	3	4	2	1
36-42	3.5	5	2	1
48	4.5	5.5	2	1
54-60	5	7	2	1
66-78	6	8	2	1
84-108	7.5	8	2	1

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE		
	CLASS III	CLASS IV	CLASS V
	FEET		
TYPE 1	21	32	50
TYPE 2	16	25	39
TYPE 3	12	20	30

NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

MINIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
	FEET	
TYPE 2 OR TYPE 3	2.5	1.5

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
	FEET	
TYPE 2	13	21
TYPE 3	10	16

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

GENERAL NOTES

1. CONCRETE PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONCRETE PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. ALL PIPE SHALL CONFORM TO SECTION 606. CIRCULAR R.C. PIPE CULVERTS SHALL CONFORM TO AASHTO M170. R.C. ARCH PIPE CULVERTS SHALL CONFORM TO AASHTO M206 AND HORIZONTAL ELLIPTICAL PIPE CULVERTS SHALL CONFORM TO AASHTO M207.
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. NOT MORE THAN ONE LIFTING HOLE MAY BE PROVIDED IN CONCRETE PIPE TO FACILITATE HANDLING. HOLE MAY BE CAST IN PLACE, CUT INTO THE FRESH CONCRETE AFTER FORMS ARE REMOVED, OR DRILLED. THE HOLE SHALL NOT BE MORE THAN TWO INCHES IN DIAMETER OR TWO INCHES SQUARE. CUTTING OR DISPLACEMENT OF REINFORCEMENT WILL NOT BE PERMITTED. SPALLED AREAS AROUND THE HOLE SHALL BE REPAIRED IN A WORKMANLIKE MANNER. LIFTING HOLE SHALL BE FILLED WITH MORTAR, CONCRETE, OR OTHER METHOD AS APPROVED BY THE ENGINEER.
9. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
10. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS THE HAUNCH), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REVISED FOR LRFD DESIGN SPECIFICATIONS	
5-18-00	REVISED TYPE 3 BEDDING & ADDED NOTE	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCC-1

CORRUGATED STEEL PIPE (ROUND)

PIPE DIAMETER (INCHES)	① MINUMUM COVER TOP OF PIPE TO TOP OF GROUND "H" (FEET)	MAX. FILL HEIGHT "H" ABOVE TOP OF PIPE (FEET)				
		METAL THICKNESS (INCHES)				
		0.064	0.079	0.109	0.138	0.168
2⅔ INCH BY ½ INCH CORRUGATION RIVETED, WELDED, OR HELICAL LOCK-SEAM						
12	1	84	91			
15	1	67	73			
18	1	56	61			
24	1	42	46	59		
30	2	34	36	47		
36	2		30	39	41	
42	2		43	67	70	73
48	2		37	58	61	64
② 3 INCH BY 1 INCH OR 5 INCH BY 1 INCH CORRUGATION RIVETED, WELDED, BOLTED, OR HELICAL LOCK-SEAM						
36	1	48	60	88	111	118
42	1	41	51	72	90	102
48	1	36	45	64	77	85
54	2	32	40	59	71	79
60	2	29	36	53	64	71
66	2	26	33	47	58	64
72	2	24	30	44	53	59
78	2		28	41	49	54
84	2		26	38	45	51
90	2		24	35	43	45
96	2		22	33	40	44
102	2			31	38	42
108	2			30	35	39
114	2			28	34	37
120	2			27	32	35

CORRUGATED ALUMINUM PIPE (ROUND)

PIPE DIAMETER (INCHES)	① MINUMUM COVER TOP OF PIPE TO TOP OF GROUND "H" (FEET)	MAX. FILL HEIGHT "H" ABOVE TOP OF PIPE (FEET)				
		METAL THICKNESS IN INCHES				
		0.060	0.075	0.105	0.135	0.164
		2 ⅔ INCH BY ½ INCH CORRUGATION RIVETED OR HELICAL LOCK-SEAM				
12	1	45	45			
18	2	30	30	52		
24	2	22	22	39	41	
30	2		18	31	32	34
36	2.5		15	26	27	28
42	2			43	43	44
48	2			40	41	43
54	2			35	37	38
60	2				33	34
66	2					31
72	2					29

CORRUGATED METAL PIPE ARCHES

EQUIV. DIA. (INCHES)	PIPE DIMENSION SPAN X RISE (INCHES)	MINUMUM CORNER RADIUS (INCHES)	STEEL				ALUMINUM		
			MIN. THICKNESS REQUIRED INCHES	① MIN. HEIGHT OF FILL, "H" (FT.)		MAX. HEIGHT OF FILL, "H" (FT.)	MIN. THICKNESS REQUIRED INCHES	① MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)
				INSTALLATION		INSTALLATION		INSTALLATION	INSTALLATION
				TYPE 1		TYPE 1		TYPE 1	TYPE 1
			2 ⅔ INCH BY ½ INCH CORRUGATION RIVETED, WELDED, OR HELICAL LOCK-SEAM				2 ⅔ INCH BY ½ INCH CORRUGATION RIVETED OR HELICAL LOCK-SEAM		
15	17x13	3	0.064	2		15	0.060	2	15
18	21x15	3	0.064	2		15	0.060	2	15
21	24x18	3	0.064	2.25		15	0.060	2.25	15
24	28x20	3	0.064	2.5		15	0.075	2.5	15
30	35x24	3	0.079	3		12	0.075	3	12
36	42x29	3½	0.079	3		12	0.105	3	12
42	49x33	4	0.079	3		12	0.105	3	12
48	57x38	5	0.109	3		13	0.135	3	13
54	64x43	6	0.109	3		14	0.135	3	14
60	71x47	7	0.138	3		15	0.164	3	15
66	77x52	8	0.168	3		15			
72	83x57	9	0.168	3		15			
			② 3 INCH BY 1 INCH OR 5 INCH BY 1 INCH CORRUGATION RIVETED, WELDED, OR HELICAL LOCK-SEAM						
				INSTALLATION		INSTALLATION			
				TYPE 2	TYPE 1	TYPE 2 TYPE 1			
36	40x31	5	0.079	3	2	12 15			
42	46x36	6	0.079	3	2	13 15			
48	53x41	7	0.079	3	2	13 15			
54	60x46	8	0.079	3	2	13 15			
60	66x51	9	0.079	3	2	13 15			
66	73x55	12	0.079	3	2	15 15			
72	81x59	14	0.079	3	2	15 15			
78	87x63	14	0.079	3	2	15 15			
84	95x67	16	0.109	3	2	15 15			
90	103x71	16	0.109	3	2	15 15			
96	112x75	18	0.109	3	2	15 15			
102	117x79	18	0.109	3	2	15 15			
108	128x83	18	0.138	3	2	15 15			

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. COMPLETE STRUCTURAL BACKFILL OPERATION BY WORKING FROM SIDE TO SIDE OF THE PIPE. THE SIDE TO SIDE STRUCTURAL BACKFILL DIFFERENTIAL SHALL NOT EXCEED 24 INCHES OR 1/3 THE SIZE OF THE PIPE, WHICHEVER IS LESS.

NOTE: STRUCTURAL BACKFILL AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF METAL PIPE.

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL ③

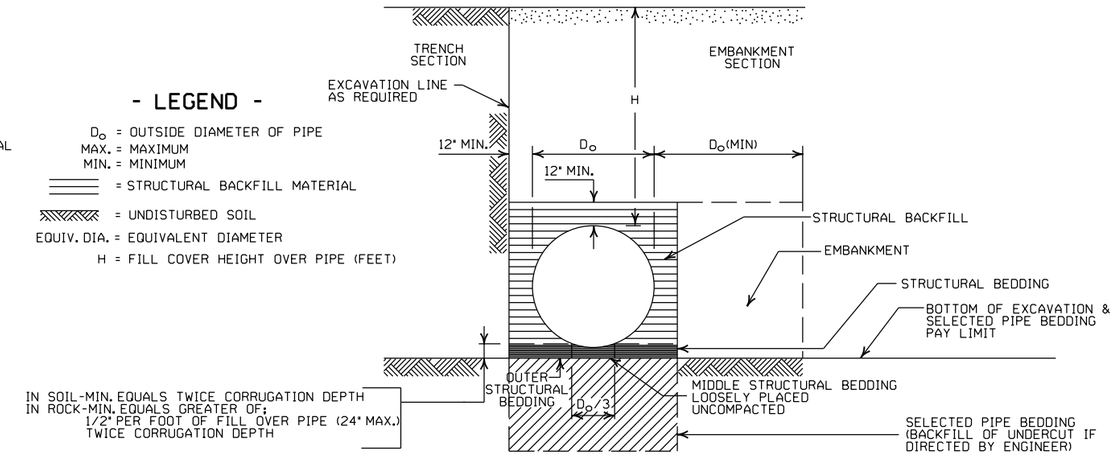
③ SM-3 WILL NOT BE ALLOWED.

EQUIVALENT METAL THICKNESSES AND GAUGES

METAL THICKNESS IN INCHES			GAUGE NUMBER
STEEL			
ZINC COATED	UNCOATED	ALUMINUM	
0.064	0.0598	0.060	16
0.079	0.0747	0.075	14
0.109	0.1046	0.105	12
0.138	0.1345	0.135	10
0.168	0.1644	0.164	8

- LEGEND -

D_o = OUTSIDE DIAMETER OF PIPE
MAX. = MAXIMUM
MIN. = MINIMUM
= STRUCTURAL BACKFILL MATERIAL
= UNDISTURBED SOIL
EQUIV. DIA. = EQUIVALENT DIAMETER
H = FILL COVER HEIGHT OVER PIPE (FEET)



EMBANKMENT AND TRENCH INSTALLATIONS

1. STRUCTURAL BACKFILL, EMBANKMENT, AND OUTER STRUCTURAL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. INSTALLATION TYPE 1 OR 2 MAY BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE (ROUND).
3. INSTALALTION TYPE 1 SHALL BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE ARCHES WITH 2⅔" X ½" CORRUGATION.
4. INSTALLATION TYPE 1 OR 2 MAY BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE ARCHES WITH 3" X 1" OR 5" X 1" CORRUGATION.

GENERAL NOTES

1. METAL PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. METAL PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. METAL PIPE CULVERT MATERIALS AND INSTALLATIONS SHALL CONFORM TO SECTION 606 AND JOB SPECIAL PROVISION "METAL PIPE".
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
9. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED AS STRUCTURAL BACKFILL), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

① FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM 12" OF PAVEMENT AND/OR BASE.

② WHERE THE STANDARD 2 2/3"× ½" CORRUGATION AND GAUGE IS SPECIFIED FOR A GIVEN DIAMETER, A PIPE OF THE SAME DIAMETER WITH A 3" × 1" OR 5" × 1" CORRUGATION MAY BE SUBSTITUTED, PROVIDING IT IS GAUGED FOR A FILL HEIGHT CONDITION EQUAL TO OR GREATER THAN THE MAXIMUM FILL HEIGHT CONDITION FOR THE SPECIFIED GAUGE AND CORRUGATION.

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REVISED FOR LRFD DESIGN SPECS	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

METAL PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCM-1

INSTALLATION TYPE	•• MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 2	•SELECTED MATERIALS (CLASS SM-1, SM-2 OR SM-4)

• AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7) MAY BE USED IN LIEU OF SELECTED MATERIAL.

SM3 WILL NOT BE ALLOWED.

•• STRUCTURAL BEDDING MATERIAL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 1 INCH. STRUCTURAL BACKFILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, STONES LARGER THAN 1.50 INCH IN GREATEST DIMENSION, OR FROZEN LUMPS.

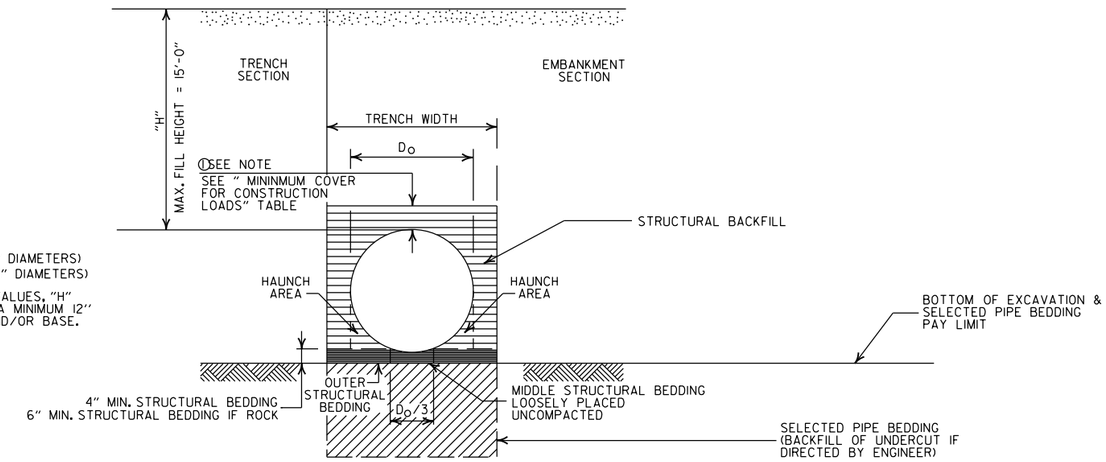
STRUCTURAL BACKFILL AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF HDPE PIPE.

MINIMUM TRENCH WIDTH BASED ON FILL HEIGHT "H"

PIPE DIAMETER	TRENCH WIDTH (FEET) "H" < 10'-0"	TRENCH WIDTH (FEET) "H" >OR= 10'-0"
18"	4'-6"	4'-6"
24"	5'-0"	6'-0"
30"	5'-6"	7'-6"
36"	6'-0"	9'-0"
42"	7'-0"	10'-6"
48"	8'-0"	12'-0"

①NOTE:
18" MIN. (18" - 30" DIAMETERS)
24" MIN. (36" - 48" DIAMETERS)

MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM 12" OF PAVEMENT AND/OR BASE.



TYPE 2 EMBANKMENT AND TRENCH INSTALLATIONS

1. STRUCTURAL BACKFILL, EMBANKMENT, AND OUTER STRUCTURAL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

MULTIPLE INSTALLATION OF HIGH DENSITY POLYETHYLENE PIPES

PIPE DIAMETER	CLEAR DISTANCE BETWEEN PIPES
18"	1'-6"
24"	2'-0"
30"	2'-6"
36"	3'-0"
42"	3'-6"
48"	4'-0"

MINIMUM COVER FOR CONSTRUCTION LOADS

PIPE DIAMETER	② MIN. COVER (FEET) FOR INDICATED CONSTRUCTION LOADS 18.0-50.0 (KIPS)	50.0-75.0 (KIPS)	75.0-110.0 (KIPS)	110.0-175.0 (KIPS)
36" OR LESS	2'-0"	2'-6"	3'-0"	3'-0"
42" OR GREATER	3'-0"	3'-0"	3'-6"	4'-0"

②MINIMUM COVER SHALL BE MEASURED FROM TOP OF PIPE TO TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE. THE SURFACE SHALL BE MAINTAINED.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. THE STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 8". THE LAYERS SHALL BE BROUGHT UP EVENLY AND SIMULTANEOUSLY TO THE ELEVATION OF THE MINIMUM COVER.
5. PIPE INSTALLATION MAY REQUIRE THE USE OF RESTRAINTS, WEIGHTING OR OTHER APPROVED METHODS IN ORDER TO HELP MAINTAIN GRADE AND ALIGNMENT.

GENERAL NOTES

1. PIPE SHALL CONFORM TO AASHTO M294, TYPE S. INSTALLATION SHALL CONFORM TO JOB SPECIAL PROVISION "PLASTIC PIPE" AND SECTION 606 OF THE STANDARD SPECIFICIATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).
2. PLASTIC PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PLUS A SUFFICIENT WIDTH TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER BACKFILL MATERIAL.
4. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
5. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
6. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS STRUCTURAL BACKFILL), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."
7. FOR PIPE TYPES THAT ARE NOT SMOOTH ON THE OUTSIDE (CORRUGATED OR PROFILE WALLS), BACKFILL GRADATIONS SHOULD BE SELECTED THAT WILL PERMIT THE FILLING OF THE CORRUGATION OR PROFILE VALLEY.
8. HIGH DENSITY POLYETHYLENE PIPES OF DIAMETERS OTHER THAN SHOWN WILL NOT BE ALLOWED.
9. JOINTS FOR HDPE PIPE SHALL MEET THE REQUIREMENTS FOR SOIL TIGHTNESS AS SPECIFIED IN AASHTO SECTION 26.4.2.4 AND 30.4.2 "AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS." JOINTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

- LEGEND -

H = FILL HEIGHT (FT.)
Ø = OUTSIDE DIAMETER OF PIPE
MAX. = MAXIMUM
MIN. = MINIMUM

= STRUCTURAL BACKFILL MATERIAL

= UNDISTURBED SOIL

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REVISED GENERAL NOTES & MINIMUM COVER NOTE	
11-17-10	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

PLASTIC PIPE CULVERT (HIGH DENSITY POLYETHYLENE)

STANDARD DRAWING PCP-1

INSTALLATION TYPE	•• MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 2	•SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4)

• AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7) MAY BE USED IN LIEU OF SELECTED MATERIAL.

SM3 WILL NOT BE ALLOWED.

•• STRUCTURAL BEDDING MATERIAL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 1INCH. STRUCTURAL BACKFILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, STONES LARGER THAN 1.50 INCH IN GREATEST DIMENSION, OR FROZEN LUMPS.

STRUCTURAL BACKFILL AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PVC PIPE.

MINIMUM TRENCH WIDTH BASED ON FILL HEIGHT "H"

PIPE DIAMETER	TRENCH WIDTH (FEET) "H" < 10'-0"	TRENCH WIDTH (FEET) "H" >OR= 10'-0"
18"	4'-6"	4'-6"
24"	5'-0"	6'-0"
30"	5'-6"	7'-6"
36"	6'-0"	9'-0"

MULTIPLE INSTALLATION OF PVC PIPES

PIPE DIAMETER	CLEAR DISTANCE BETWEEN PIPES
18"	1'-6"
24"	2'-0"
30"	2'-6"
36"	3'-0"

MAXIMUM FILL HEIGHT BASED ON STRUCTURAL BACKFILL

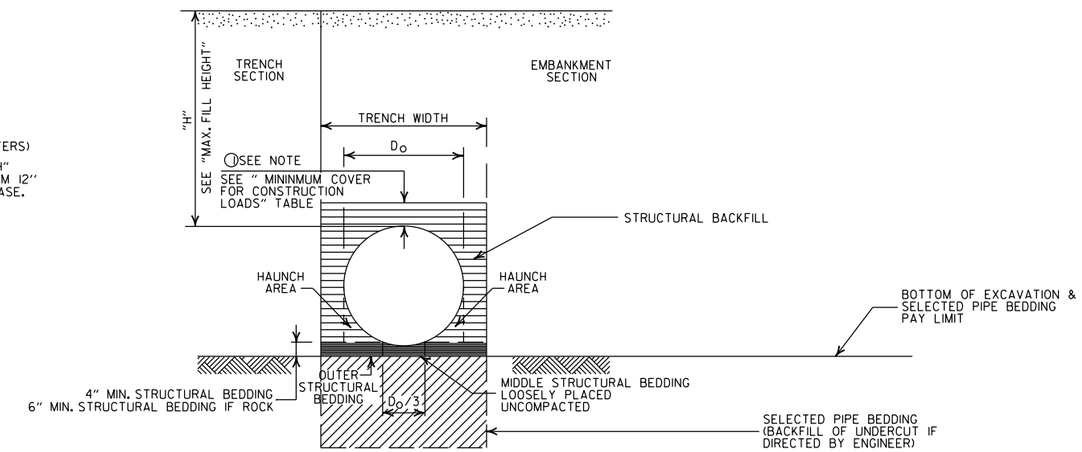
PIPE DIAMETER	"H"
18"	45'-0"
24"	45'-0"
30"	40'-0"
36"	40'-0"

① NOTE:
12" MIN. (18" - 36" DIAMETERS)
MINIMUM COVER VALUE, "H" SHALL INCLUDE A MINIMUM 12" OF PAVEMENT AND/OR BASE.

MINIMUM COVER FOR CONSTRUCTION LOADS

PIPE DIAMETER	② MIN. COVER (FEET) FOR INDICATED CONSTRUCTION LOADS 18.0-50.0 (KIPS)	50.0-75.0 (KIPS)	75.0-110.0 (KIPS)	110.0-175.0 (KIPS)
18" THRU 36"	2'-0"	2'-6"	3'-0"	3'-0"

②MINIMUM COVER SHALL BE MEASURED FROM TOP OF PIPE TO TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE. THE SURFACE SHALL BE MAINTAINED.



TYPE 2 EMBANKMENT AND TRENCH INSTALLATIONS

1. STRUCTURAL BACKFILL, EMBANKMENT, AND OUTER STRUCTURAL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. THE STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 8". THE LAYERS SHALL BE BROUGHT UP EVENLY AND SIMULTANEOUSLY TO THE ELEVATION OF THE MINIMUM COVER.
5. PIPE INSTALLATION MAY REQUIRE THE USE OF RESTRAINTS, WEIGHTING OR OTHER APPROVED METHODS IN ORDER TO HELP MAINTAIN GRADE AND ALIGNMENT.

GENERAL NOTES

1. PIPE SHALL CONFORM TO ASTM F949, CELL CLASS 12454. INSTALLATION SHALL CONFORM TO JOB SPECIAL PROVISION "PLASTIC PIPE" AND SECTION 606 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).
2. PLASTIC PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PLUS A SUFFICIENT WIDTH TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER BACKFILL MATERIAL.
4. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
5. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
6. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS STRUCTURAL BACKFILL), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."
7. FOR PIPE TYPES THAT ARE NOT SMOOTH ON THE OUTSIDE (CORRUGATED OR PROFILE WALLS), BACKFILL GRADATIONS SHOULD BE SELECTED THAT WILL PERMIT THE FILLING OF THE CORRUGATION OR PROFILE VALLEY.
8. PVC PIPES OF DIAMETERS OTHER THAN SHOWN WILL NOT BE ALLOWED.
9. JOINTS FOR PVC PIPE SHALL MEET THE REQUIREMENTS FOR SOIL TIGHTNESS AS SPECIFIED IN AASHTO SECTION 26.4.2.4 AND 30.4.2 "AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS." JOINTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

- LEGEND -

H = FILL HEIGHT (FT.)
D_O = OUTSIDE DIAMETER OF PIPE
MAX. = MAXIMUM
MIN. = MINIMUM

= STRUCTURAL BACKFILL MATERIAL

= UNDISTURBED SOIL

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REV GENERAL NOTES & MINIMUM COVER NOTE; DELETED SM3 MATERIAL	
11-17-10	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

PLASTIC PIPE CULVERT (PVC F949)

STANDARD DRAWING PCP-2

INSTALLATION TYPE	**MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7)
TYPE 2	*SELECTED MATERIALS (CLASS SM-1, SM-2 OR SM-4) OR TYPE 1 INSTALLATION MATERIAL

*SM3 WILL NOT BE ALLOWED.

** STRUCTURAL BEDDING MATERIAL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 1 INCH. STRUCTURAL BACKFILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, STONES LARGER THAN 1.50 INCH IN GREATEST DIMENSION, OR FROZEN LUMPS.

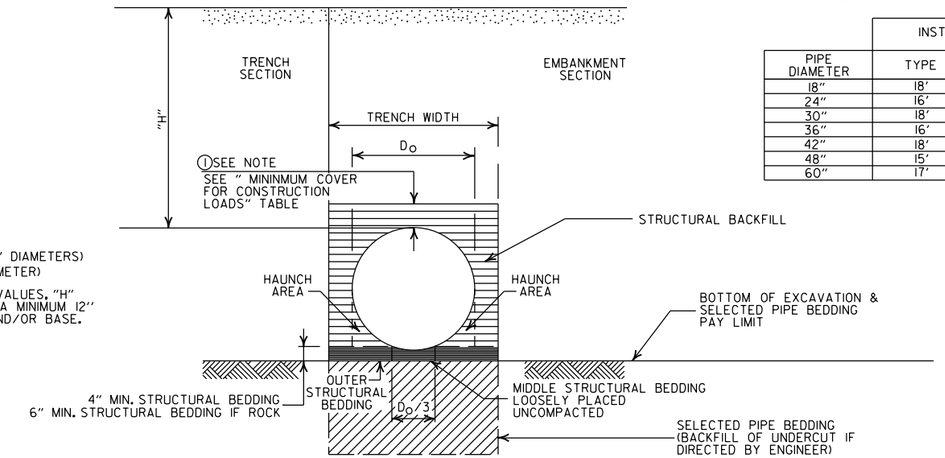
STRUCTURAL BACKFILL AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF POLYPROPYLENE PIPE.

MINIMUM TRENCH WIDTH BASED ON FILL HEIGHT "H"

PIPE DIAMETER	TRENCH WIDTH (FEET) "H" < 10'-0"	TRENCH WIDTH (FEET) "H" >OR= 10'-0"
18"	4'-6"	4'-6"
24"	5'-0"	6'-0"
30"	5'-6"	7'-6"
36"	6'-0"	9'-0"
42"	7'-0"	10'-6"
48"	8'-0"	12'-0"
60"	10'-0"	15'-0"

(1) NOTE:
12" MIN. (18" - 42" DIAMETERS)
24" MIN. (60" DIAMETER)

MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM 12" OF PAVEMENT AND/OR BASE.



MAXIMUM HEIGHT OF FILL "H"

PIPE DIAMETER	INSTALLATION TYPE TYPE 1	INSTALLATION TYPE TYPE 2
18"	18'	14'
24"	16'	12'
30"	18'	14'
36"	16'	12'
42"	18'	13'
48"	15'	11'
60"	17'	12'

MULTIPLE INSTALLATION OF POLYPROPYLENE PIPES

PIPE DIAMETER	CLEAR DISTANCE BETWEEN PIPES
18"	1'-6"
24"	2'-0"
30"	2'-6"
36"	3'-0"
42"	3'-6"
48"	4'-0"
60"	5'-0"

MINIMUM COVER FOR CONSTRUCTION LOADS

PIPE DIAMETER	(2) MIN. COVER (FEET) FOR INDICATED CONSTRUCTION LOADS 18.0-50.0 (KIPS)	50.0-75.0 (KIPS)	75.0-110.0 (KIPS)	110.0-150.0 (KIPS)
36" OR LESS	2'-0"	2'-6"	3'-0"	3'-0"
42" OR GREATER	3'-0"	3'-0"	3'-6"	4'-0"

(2) MINIMUM COVER SHALL BE MEASURED FROM TOP OF PIPE TO TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE. THE SURFACE SHALL BE MAINTAINED.

EMBANKMENT AND TRENCH INSTALLATIONS

1. STRUCTURAL BACKFILL, EMBANKMENT, AND OUTER STRUCTURAL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. THE STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 8". THE LAYERS SHALL BE BROUGHT UP EVENLY AND SIMULTANEOUSLY TO THE ELEVATION OF THE MINIMUM COVER.
5. PIPE INSTALLATION MAY REQUIRE THE USE OF RESTRAINTS, WEIGHTING OR OTHER APPROVED METHODS IN ORDER TO HELP MAINTAIN GRADE AND ALIGNMENT.

GENERAL NOTES

1. PIPE SHALL CONFORM TO AASHTO M330, TYPE S. INSTALLATION SHALL CONFORM TO JOB SPECIAL PROVISION "PLASTIC PIPE" AND SECTION 606 OF THE STANDARD SPECIFICIATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).
2. PLASTIC PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SIXTH EDITION (2012) WITH 2013 INTERIMS.
3. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PLUS A SUFFICIENT WIDTH TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER BACKFILL MATERIAL.
4. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
5. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
6. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS STRUCTURAL BACKFILL), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."
7. FOR PIPE TYPES THAT ARE NOT SMOOTH ON THE OUTSIDE (CORRUGATED OR PROFILE WALLS), BACKFILL GRADATIONS SHOULD BE SELECTED THAT WILL PERMIT THE FILLING OF THE CORRUGATION OR PROFILE VALLEY.
8. POLYPROPYLENE PIPES OF DIAMETERS OTHER THAN SHOWN WILL NOT BE ALLOWED.
9. JOINTS FOR POLYPROPYLENE PIPE SHALL MEET THE REQUIREMENTS FOR SOIL TIGHTNESS AS SPECIFIED IN SECTION 26.4.2.4 AND 30.4.2 OF THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS 3RD EDITION (2010) WITH 2012 INTERIMS. JOINTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

- LEGEND -

H = FILL HEIGHT (FT.)
D_O = OUTSIDE DIAMETER OF PIPE
MAX. = MAXIMUM
MIN. = MINIMUM

= STRUCTURAL BACKFILL MATERIAL
= UNDISTURBED SOIL

DATE	REVISION	DATE FILMED
02-27-20	REVISED	
11-07-19	ISSUED	

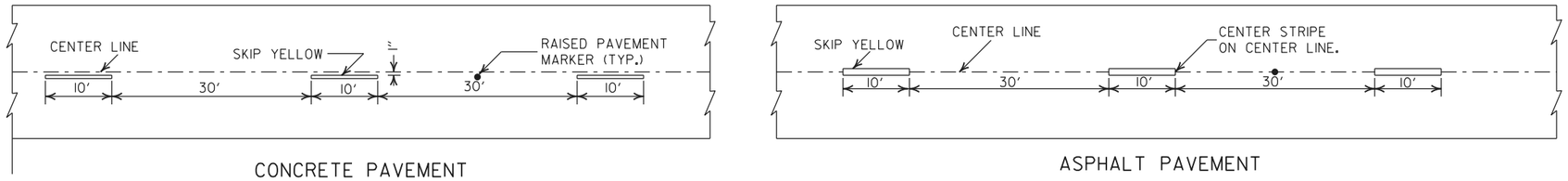
ARKANSAS STATE HIGHWAY COMMISSION

PLASTIC PIPE CULVERT (POLYPROPYLENE)

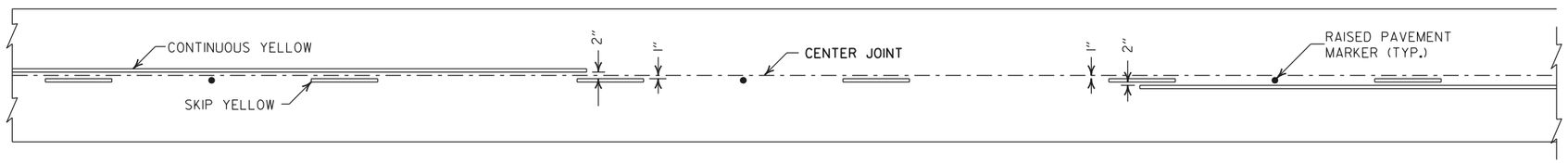
STANDARD DRAWING PCP-3

NOTES:

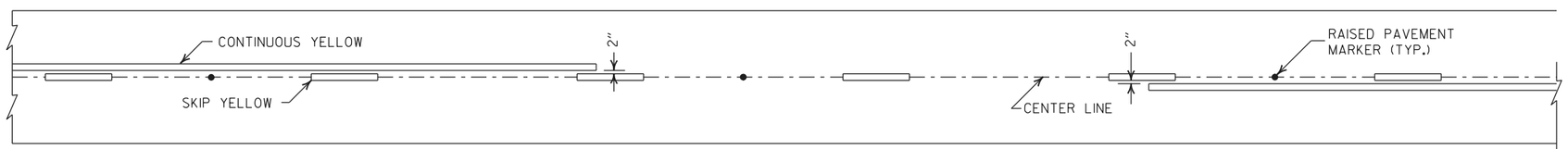
1. REFER TO THE STRIPING DETAILS FOR PAVEMENT MARKING LINE WIDTHS.
2. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
3. RAISED PAVEMENT MARKERS SHALL BE PLACED ON AN 80 FEET SPACING UNLESS OTHERWISE SHOWN IN THE PLANS.



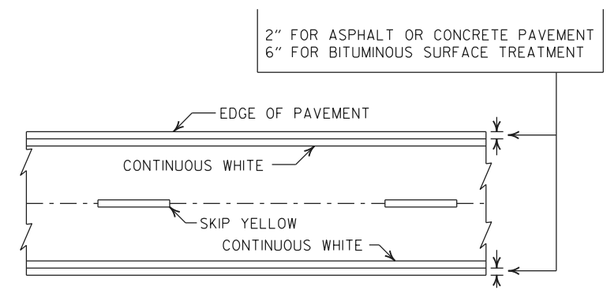
BROKEN LINE STRIPING



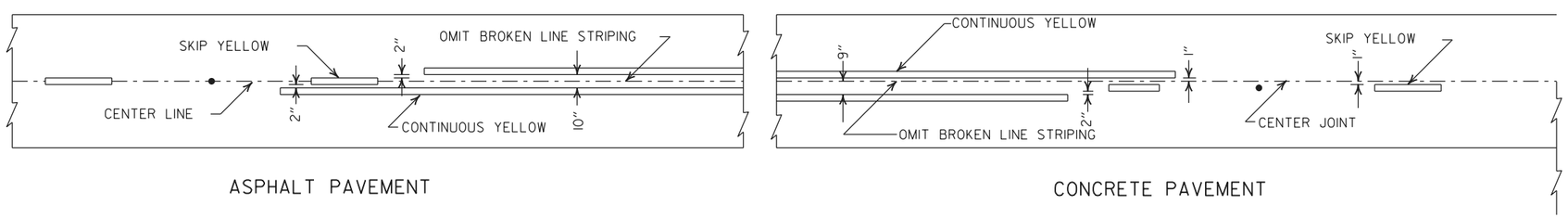
SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT



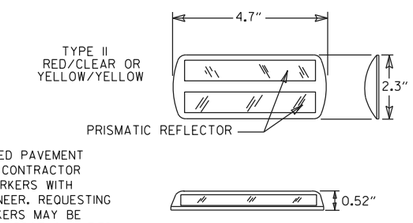
PAVEMENT EDGE LINE MARKING



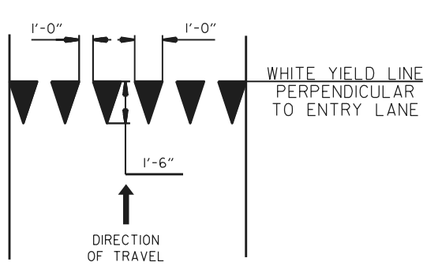
STRIPING AT ADJACENT NO PASSING LANES

NOTE:
THE RED LENS OF THE TYPE II R.P.M. SHALL FACE THE INCORRECT TRAFFIC MOVEMENT.

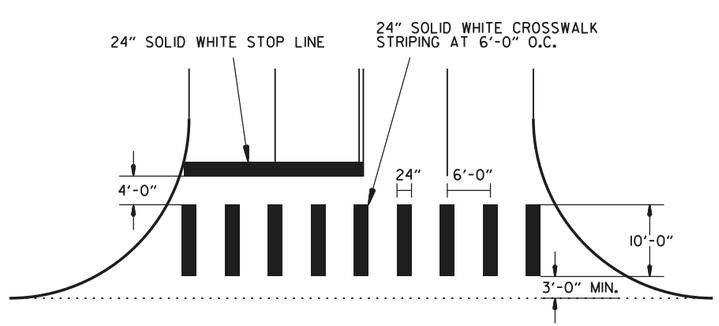
NOTE:
DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.



DETAIL OF STANDARD RAISED PAVEMENT MARKERS



YIELD LINE DETAIL



CROSSWALK AND STOP LINE DETAILS

DATE	REV	DESCRIPTION
04-09-26		REV. CROSSWALK & STOP LINE DETAILS
02-27-20		REV. STOP LINE DETAILS
06-01-17		ADDED YIELD LINE DETAIL
05-12-16		REVISED LINE WIDTHS, SPACING, & NOTES
09-12-13		REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS

ARDOT ARKANSAS DEPARTMENT OF TRANSPORTATION

ARKANSAS STATE HIGHWAY COMMISSION

PAVEMENT MARKING DETAILS

DATE EFFECTIVE 04-09-2026

STANDARD DRAWING

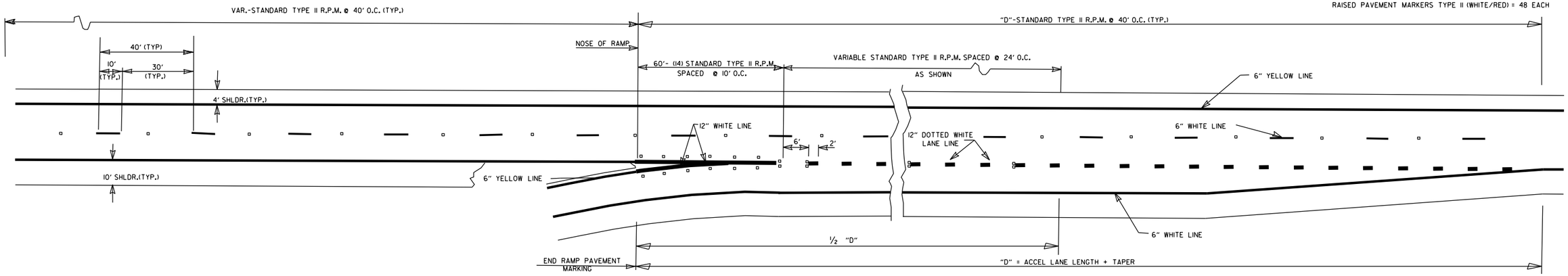
PM-1

PAVEMENT MARKING QUANTITIES
(BASED ON 700' ACCEL. LANE + 300' TAPER)

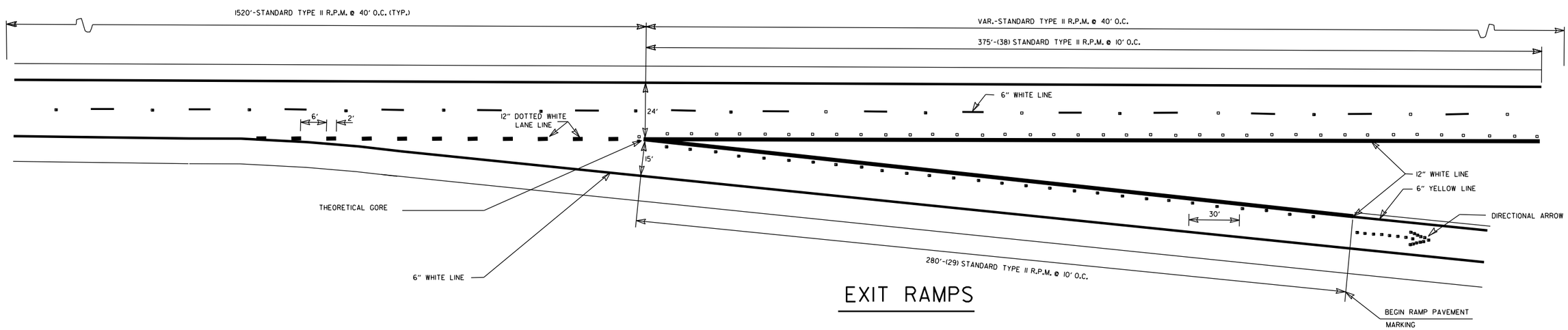
ENTRANCE RAMP

12" WHITE = 370 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 38 EACH

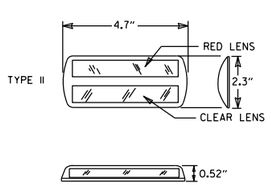
EXIT RAMP
6" WHITE = 280 LIN. FT.
12" WHITE = 815 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 38 EACH
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 48 EACH



ENTRANCE RAMPS

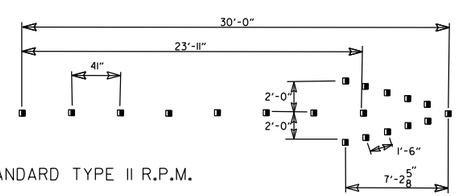


EXIT RAMPS



DETAIL OF
STANDARD
RAISED PAVEMENT MARKERS

NOTE:
THE RED LENS OF THE TYPE II R.P.M. SHALL FACE THE INCORRECT TRAFFIC MOVEMENT.



(19) STANDARD TYPE II R.P.M.

DIRECTIONAL ARROWS

GENERAL NOTES:

THIS DRAWING SHOULD BE CONSIDERED AS TYPICAL ONLY AND THE FINAL LOCATION OF THE STRIPING AND PAVEMENT MARKERS SHALL BE DETERMINED BY THE ENGINEER.

THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST REVISION.

NOTE:
DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.

DATE	REVISION	FILMED
05-14-20	REMOVED CROSSHATCH MARKINGS ON EXIT RAMPS	
11-07-19	REVISED DOTTED PAV'T MARKINGS; ADDED CROSSHATCH MARKINGS ON EXIT RAMPS	
12-8-16	REVISED RAISED PAV'T MARKERS FOR 80' SPACING; REVISED WIDTH OF STRIPING	
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS	
7-26-12	REVISED RPM NOTATION	
12-15-11	REVISED RPMs ACCORDING TO LATEST POLICY	
11-17-10	REMOVED PLOWABLE PAVEMENT MARKERS	
6-3-10	REVISED PER 2009 MUTCD	
11-18-04	REVISED NOTES	
8-22-02	ADDED & REVISED NOTES; REV. ENTRANCE & EXIT RAMPS	
5-18-00	REMOVED HASHMARKS	
7-02-98	CHANGED TYPES TO ROMAN NUMERALS	
4-26-96	ADDED DIMENSIONS & QUANTITIES; REVISED LANE WIDTH ON EXIT RAMP	
2-2-95	PLACED IN USE	2-2-95

ARKANSAS STATE HIGHWAY COMMISSION

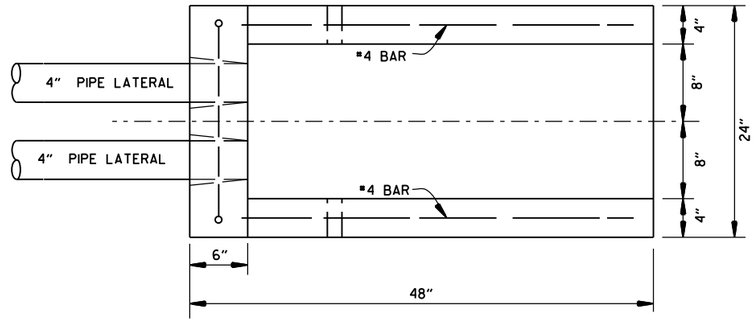
PAVEMENT MARKING DETAILS ON ACCESS CONTROLLED ROADWAYS

STANDARD DRAWING PM-2

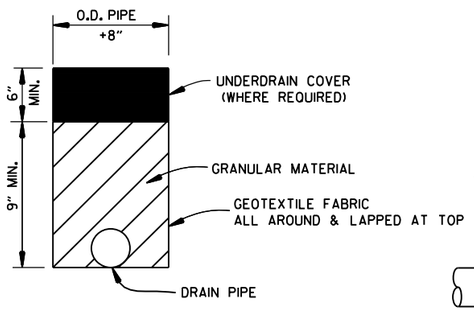
NOTE:

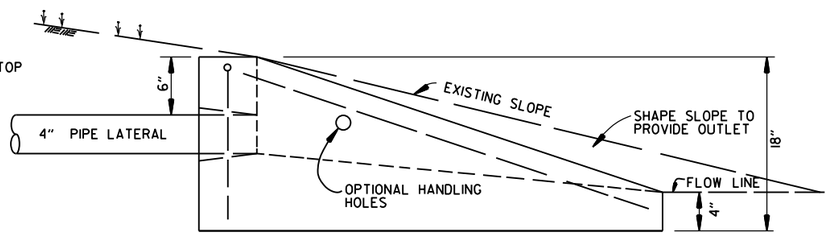
1. UNLESS OTHERWISE SPECIFIED ON THE PLANS, THE UNDERDRAIN COVER SHALL BE THOROUGHLY COMPACTED EARTH AND SHALL BE SUBSIDIARY TO PIPE UNDERDRAIN.

2. GRANULAR MATERIAL SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. LAP FABRIC 12" OR THE WIDTH OF THE TRENCH AT THE TOP.

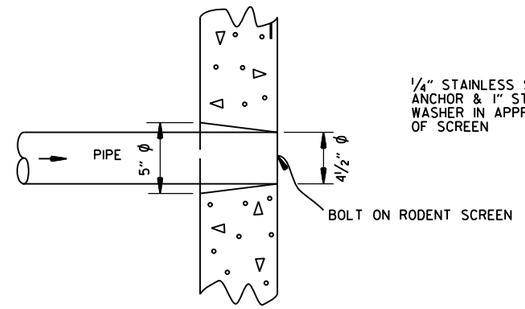


PLAN VIEW

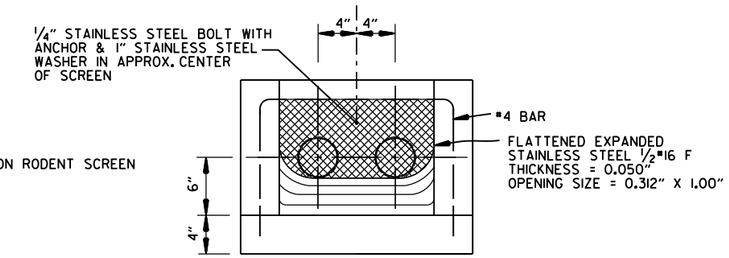




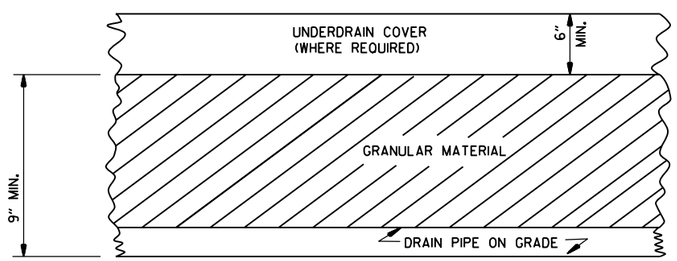
SIDE VIEW



DETAIL OF HOLE
FOR 4" PIPE

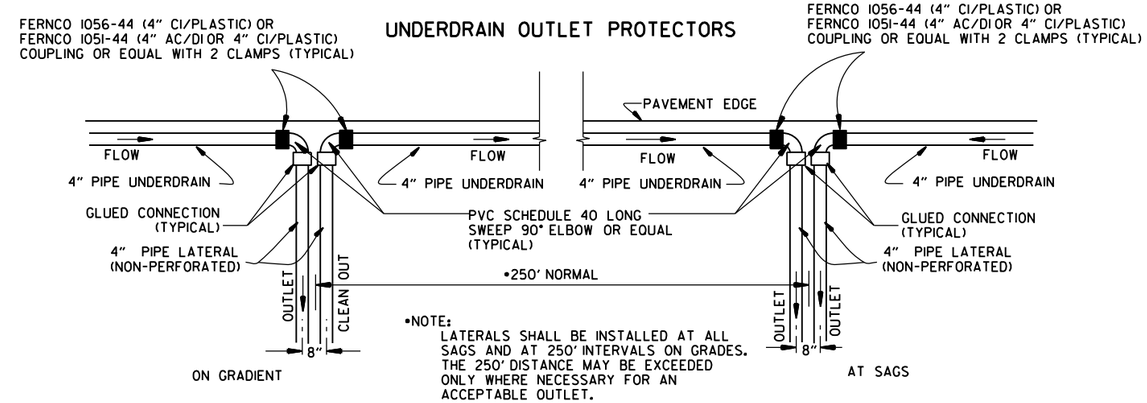


FRONT VIEW
(DETAIL OF RODENT SCREEN)



DETAILS OF PIPE UNDERDRAIN

UNDERDRAIN OUTLET PROTECTORS



•NOTE:
LATERALS SHALL BE INSTALLED AT ALL SAGS AND AT 250' INTERVALS ON GRADES. THE 250' DISTANCE MAY BE EXCEEDED ONLY WHERE NECESSARY FOR AN ACCEPTABLE OUTLET.

DETAIL OF PIPE UNDERDRAIN LATERALS WHEN PLACED ALONG PAVEMENT EDGE

NOTE: PVC PIPE FOR LATERALS SHALL MEET THE REQUIREMENTS OF ASTM D 1785 (LATEST REVISION) FOR SCHEDULE 40 PIPE.

NOTES FOR PIPE UNDERDRAINS

1. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF SECTION 625 FOR TYPE I. PAYMENT FOR GEOTEXTILE FABRIC AND GRANULAR FILTER MATERIAL SHALL BE INCLUDED IN THE PRICE BID PER LIN. FT. FOR "4" PIPE UNDERDRAINS" IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS.

2. 4" NON-PERFORATED SCHEDULE 40 PVC PIPE LATERALS WITH OUTLET PROTECTORS SHALL BE INSTALLED AS SHOWN HEREON. LATERALS WILL BE MEASURED AND PAID FOR AS "4" PIPE UNDERDRAINS." UNDERDRAIN OUTLET PROTECTORS WILL BE MEASURED AND PAID FOR BY THE UNIT IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS.

3. EXISTING 4" PIPE UNDERDRAINS MAY BE CONNECTED TO PROPOSED DROP INLETS OR EXTENDED WHERE DIRECTED BY THE ENGINEER. PAYMENT FOR CONNECTING TO DROP INLETS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR "4" PIPE UNDERDRAINS."

4. THE LOCATION OF ALL LATERALS SHALL BE MARKED WITH 4" X 12" PERMANENT PAVEMENT MARKING TAPE (TYPE III WHITE) AT THE OUTSIDE EDGE OF THE SHOULDER, PLACED TRANSVERSE TO TRAFFIC. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

5. PAYMENT FOR THE RODENT SCREEN SHALL BE INCLUDED IN THE PRICE BID PER EACH FOR "UNDERDRAIN OUTLET PROTECTORS."

6. ANY EXISTING UNDERDRAINS THAT INTERFERE WITH INSTALLATION OF THE NEW UNDERDRAIN SYSTEM SHALL BE REMOVED AND DISPOSED OF AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS. EXISTING UNDERDRAIN OUTLET PROTECTORS SHALL BE REMOVED UNDER THE ITEM "REMOVAL AND DISPOSAL OF UNDERDRAIN OUTLET PROTECTORS."

7. AT LOCATIONS WHERE A SINGLE LATERAL IS USED THE CONTRACTOR SHALL HAVE THE FOLLOWING OPTIONS: 1. INSTALL OUTLET PROTECTOR AS SHOWN ON STANDARD DRAWING PU-1 AND GROUT THE UNUSED HOLE OR 2. INSTALL AN OUTLET PROTECTOR WITH A SINGLE HOLE.

DATE	REVISION	DATE FILMED
12-8-16	ADDED NOTES FOR PIPE UNDERDRAINS, REVISED RODENT SCREEN DETAIL AND NOTES, REMOVED NOTE 1 FOR GRANULAR MATERIAL, ADDED NOTE FOR GEOTEXTILE FABRIC	
4-10-03	REVISED NOTE 3	
1-12-00	REVISED DETAIL OF UNDERDRAIN LATERALS	
11-18-98	REVISED NOTE	
10-18-96	REVISED MIN. DEPTH & GEOTEXTILE FABRIC	
4-26-96	ADDED LATERAL NOTE; 5½" TO 5"	
11-22-95	REVISED LATERALS	
7-20-95	REVISED LATERALS & ADDED NOTE	
11- 3-94	REVISED FOR DUAL LATERALS	11- 3-94
10- 1-92	SUBSTITUTED GEOTEXTILE	10- 1-92
8-15-91	ADDED POLYEDTHYLENE PIPE	8-15-91
11- 8-90	DELETED ALTERNATE NOTE	11- 8-90
1-25-90	ADDED 4" SNAP ADAPTER	1-25-90
11-30-89	DEL. (SUBGRADE); ADDED (WHERE REQUIRED)	11-30-89
7-15-88	ISSUED P.L.M.	647-7-15-88

ARKANSAS STATE HIGHWAY COMMISSION

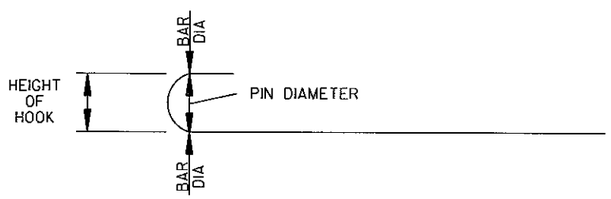
DETAILS OF PIPE UNDERDRAIN

STANDARD DRAWING PU-1

STEEL FABRICATION: REINFORCING STEEL FABRICATION SHALL CONFORM TO THE DIMENSIONS LISTED IN THE TABLE BELOW:

BAR SIZE	PIN DIAMETER	HOOK EXTENSION "K"
3	2¼"	4"
4	3 "	4½"
5	3¾"	5"
6	4½"	6"
7	5¼"	7"
8	6"	8"

IF THE OVERALL HEIGHT OF THE HOOK (SEE DIAGRAM BELOW) FOR A "b", "bl", "b2" or "b3" BENT BAR IS GREATER THAN THE CORRESPONDING TOP OR BOTTOM SLAB THICKNESS, LESS 2¾ INCHES, EACH BENT BAR SHALL BE REPLACED WITH ONE HOOKED BAR AND ONE STRAIGHT BAR, USING LENGTHS AS SHOWN IN THE TABLE BELOW. THE TWO BARS SHALL BE THE SAME DIAMETER AS, AND PLACED AT THE SAME SPACING AS, THE "b", "bl", "b2" OR "b3" BENT BARS THEY REPLACE.



NOTE: DIMENSIONS OF BARS ARE MEASURED OUT TO OUT OF BARS.

OVERALL HEIGHT OF HOOKED BAR DIAGRAM

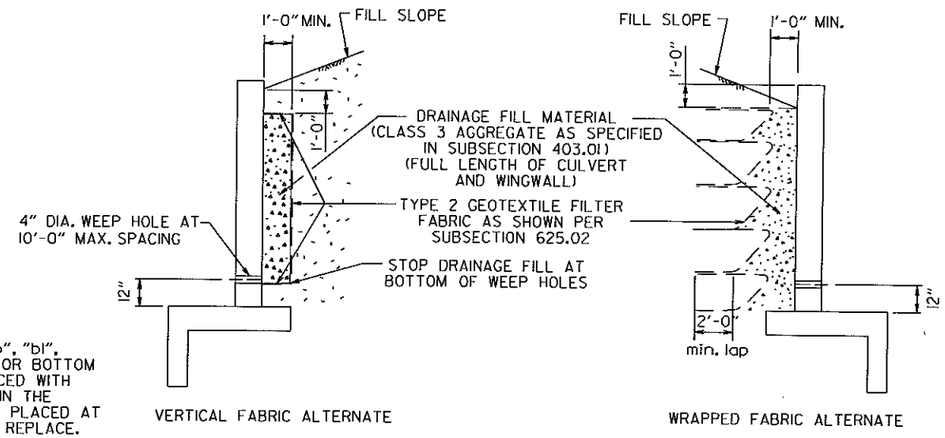
THE HOOKED BARS SHALL BE PLACED IN THE BOTTOM OF THE TOP SLAB AND THE TOP OF THE BOTTOM SLAB. THE STRAIGHT BARS SHALL BE PLACED IN THE TOP OF THE TOP SLAB AND THE BOTTOM OF THE BOTTOM SLAB. SEE TABLE BELOW FOR LENGTHS OF REPLACEMENT HOOKED AND STRAIGHT BARS.

FOR SKEWED CULVERTS, THE REPLACEMENT STRAIGHT BAR MAY HAVE TO BE CUT IN FIELD TO FIT.

REPLACEMENT BAR LENGTHS TABLE

BAR SIZE: "b", "bl", "b2" OR "b3"	LENGTH OF HOOKED BAR	LENGTH OF STRAIGHT BAR
#4	L + 1' - 0"	SEE "c" BAR LENGTH
#5	L + 1' - 2"	SEE "c" BAR LENGTH
#6	L + 1' - 4"	SEE "c" BAR LENGTH
#7	L + 1' - 8"	SEE "c" BAR LENGTH
#8	L + 1' - 10"	SEE "c" BAR LENGTH
#9	L + 2' - 6"	SEE "c" BAR LENGTH

L = "OW" - 3 INCHES



WINGWALL & CULVERT DRAINAGE DETAIL

REINFORCED CONCRETE BOX CULVERT GENERAL NOTES

CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI.

REINFORCING STEEL SHALL BE AASHTO M 31 OR M 53, GRADE 60.

CONSTRUCTION AND MATERIALS FOR WINGWALL & CULVERT DRAINAGE, INCLUDING WEEP HOLES AND GRANULAR MATERIAL, SHALL BE SUBSIDIARY TO THE BID ITEM, "CLASS S CONCRETE".

MEMBRANE WATERPROOFING SHALL CONFORM TO THE REQUIREMENTS OF SECTION 815 OF THE STANDARD SPECIFICATIONS.

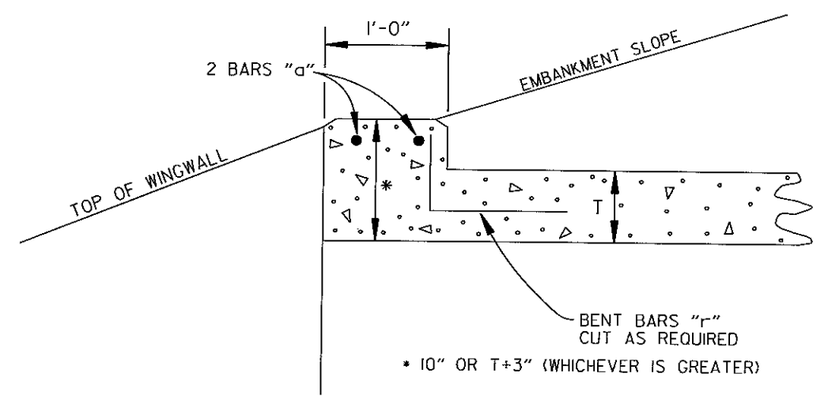
MEMBRANE WATERPROOFING SHALL BE APPLIED TO ALL CONSTRUCTION JOINTS IN THE TOP SLAB AND THE SIDEWALLS OF R.C. BOX CULVERTS AS DIRECTED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THIS ITEM, BUT PAYMENT WILL BE CONSIDERED TO BE INCLUDED IN THE VARIOUS ITEMS BID FOR THE R.C. BOX CULVERT.

REINFORCING STEEL TOLERANCES: THE TOLERANCES FOR REINFORCING STEEL SHALL MEET THOSE LISTED IN "MANUAL OF STANDARD PRACTICE" PUBLISHED BY CONCRETE REINFORCING STEEL INSTITUTE (CRSI) EXCEPT THAT THE TOLERANCE FOR TRUSS BARS SUCH AS FIGURE 3 ON PAGE 7-4 OF THE CRSI MANUAL SHALL BE MINUS ZERO TO PLUS ½ INCH.

WEEP HOLES IN BOX CULVERT WALLS SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 10'-0" AND SHALL BE SPACED TO CLEAR ALL REINFORCING STEEL. THE DRAIN OPENING SHALL BE 4" DIAMETER AND SHALL BE PLACED 12" ABOVE THE TOP OF THE BOTTOM SLAB.

WEEP HOLES IN WINGWALLS SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 10'-0" AND SHALL BE SPACED TO CLEAR ALL REINFORCING STEEL. THERE SHALL BE A MINIMUM OF TWO (2) WEEP HOLES IN EACH WINGWALL. THE DRAIN OPENING SHALL BE 4" DIAMETER AND SHALL BE PLACED 12" ABOVE THE TOP OF THE WINGWALL FOOTING.

THE REQUIREMENTS SHOWN ON THIS DRAWING SHALL SUPERCEDE THE CORRESPONDING REQUIREMENTS ON ALL REINFORCED CONCRETE BOX CULVERT STANDARD DRAWINGS.



NOTE: FOR ALL SKEWED R.C. BOX CULVERTS THE LENGTH "K" OF THE MODIFIED HEADWALL SHALL BE EQUAL TO THE ROADWAY LENGTH "RL". THE ENDS OF THE HEADWALL SHALL BE CONSTRUCTED PARALLEL TO THE SKEW ANGLE OF THE BOX CULVERT.

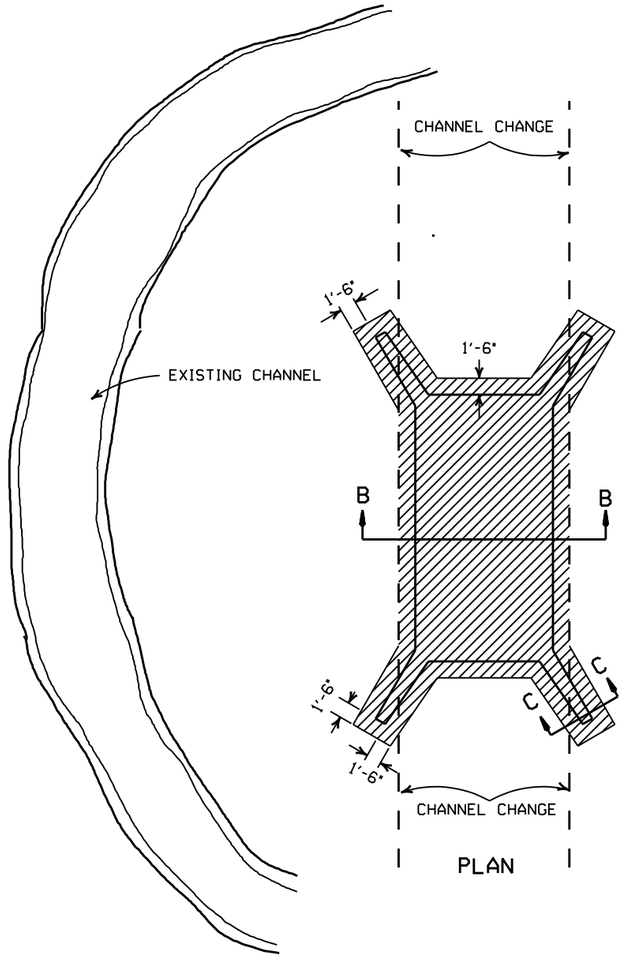
R.C. BOX CULVERT HEADWALL MODIFICATIONS

DATE	REVISION	DATE FILMED
7/26/12	REV. DRAINAGE FILL MATERIAL & DETAIL	
12/15/11	REQUIRE WEEP HOLES IN BOX CULVERT WALLS	
5-25-06	REV. GEN. NOTES AND DETAILS FOR WEEP HOLES; BAR DIAGRAM	
11-16-01	ADDED WINGWALL DRAINAGE DETAIL/EDITED GEN. NOTES	
10-18-96	REV. ASTM REF. TO AASHTO & ADDED BAR DIAGRAM	
10-12-95	MOVED SOLID SODDING DETAIL TO RCB-2	
6-2-94	ADDED SOLID SODDING PLAN DETAIL	
8-5-93	REVISED PIN DIAMETER TO SPECS.	
8-15-91	DRAWN AND ISSUED	

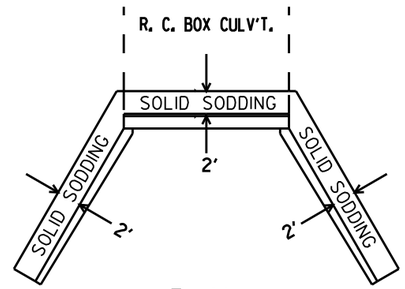
ARKANSAS STATE HIGHWAY COMMISSION

REINFORCED CONCRETE BOX CULVERT DETAILS

STANDARD DRAWING RCB-1



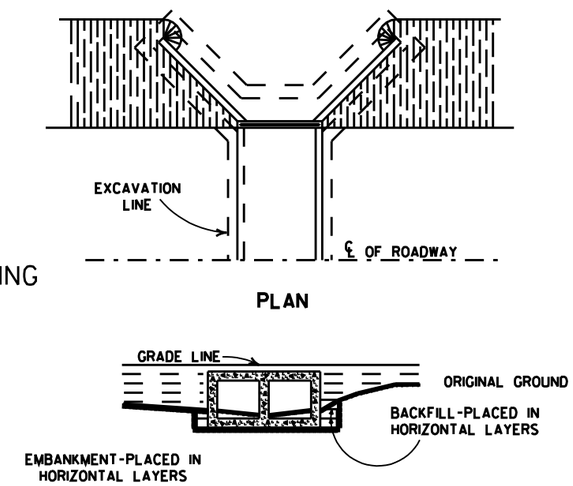
PLAN



PLAN

PARTIAL SECTION SHOWING SOLID SODDING AT HEADWALLS AND WING WALLS

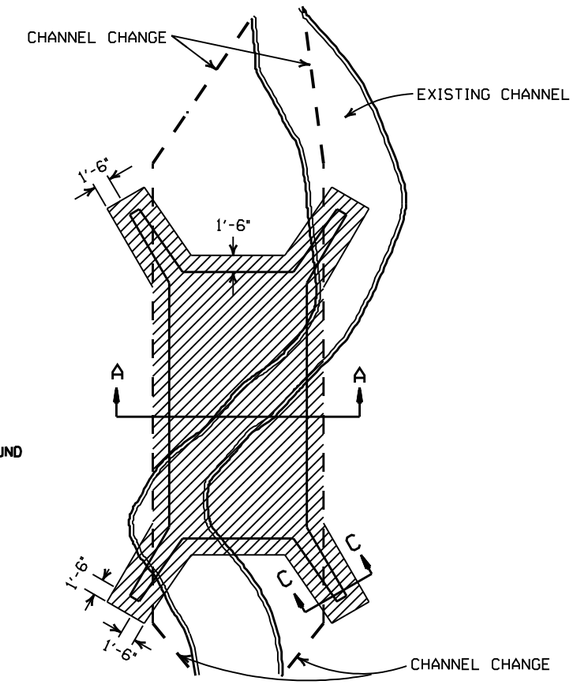
NOTE: LENGTH MEASURED ALONG THE CENTER OF 2' STRIP OF SOLID SODDING.



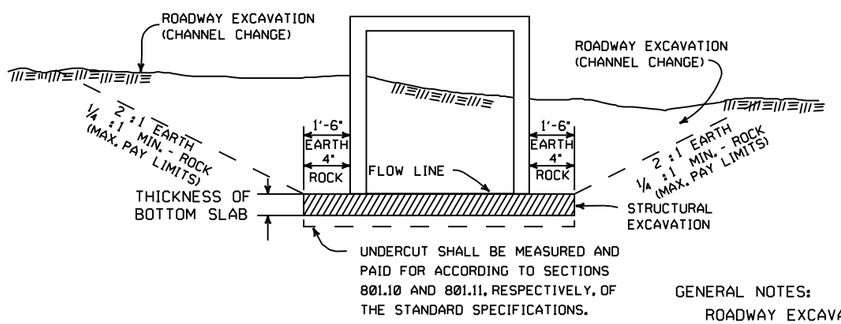
PLAN

LONGITUDINAL SECTION

BACKFILL DETAILS FOR BOX CULVERT

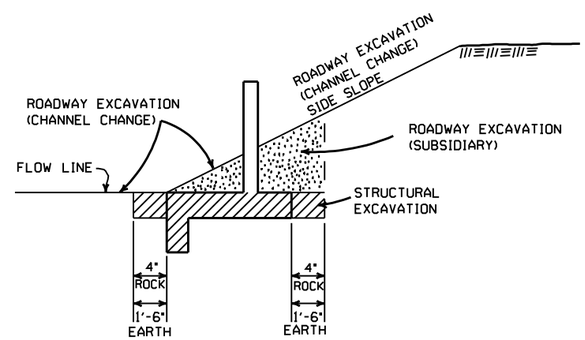


PLAN

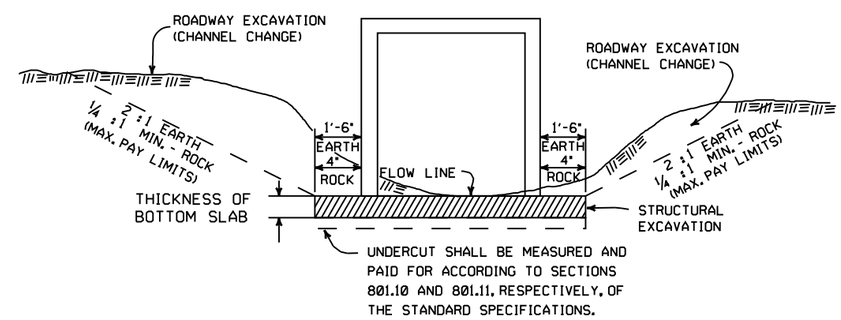


SECTION B-B

DETAILS FOR NEW CHANNELS



SECTION C-C



SECTION A-A

DETAILS THROUGH EXISTING CHANNELS

GENERAL NOTES:

ROADWAY EXCAVATION (CHANNEL CHANGE) WILL BE PAID FOR AT R.C. BOX CULVERT LOCATIONS. IT WILL BE PAID TO THE LIMITS ACTUALLY CUT AND WILL BE CONFINED TO THAT PORTION OF THE INDICATED AREA THAT IS ABOVE THE FLOW LINE. ROADWAY EXCAVATION (CHANNEL CHANGE) SHALL BE MEASURED BY CROSS SECTIONS AND VOLUMES COMPUTED BY AVERAGE END AREA METHOD. ALL CHANNEL CHANGES SHALL BE BROUGHT TO GRADE PRIOR TO MAKING ANY EXCAVATION FOR STRUCTURES.

EXCAVATION FOR STRUCTURES WILL BE PAID FOR AT ALL R.C. BOX CULVERT LOCATIONS. IT WILL BE PAID TO THE LIMITS SHOWN AND SHALL BE CONFINED TO THAT PORTION OF THE INDICATED AREA THAT IS BELOW THE CHANNEL FLOW LINE.

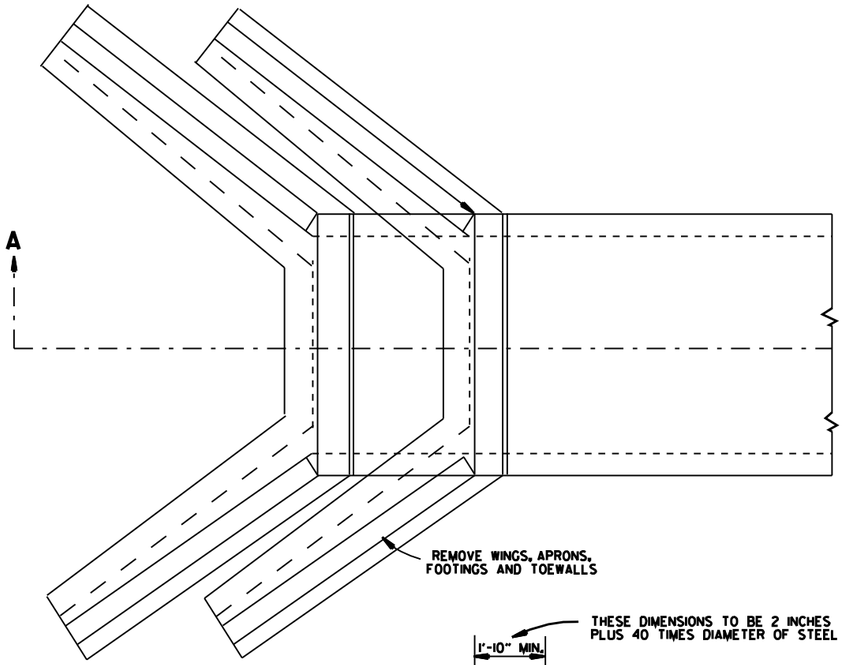
ROADWAY EXCAVATION SHOWN IN SECTION C-C ABOVE AS SUBSIDIARY WILL NOT BE MEASURED OR PAID FOR DIRECTLY, BUT PAYMENT WILL BE CONSIDERED TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION.

DATE	REVISION	FILMED
11-20-03	REVISED SECTION A-A NOTE	
8-22-02	REVISED SECTION B-B NOTE	
10-12-95	COMBINED 1891B AND 1888A	
1-4-83	REVISED GENERAL NOTES	674-1-4-83
	AND ADDED MAXIMUM PAY	
	LIMIT NOTES.	
2-2-76	EXCAV. PAY LIMITS	917-2-2-76
10-2-72	REVISED AND REDRAWN	564-10-16-72

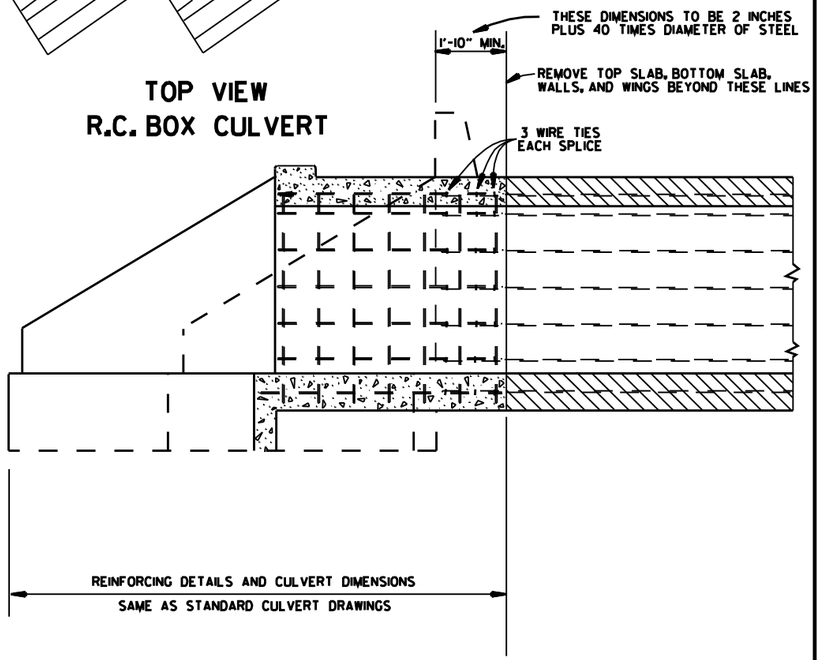
ARKANSAS STATE HIGHWAY COMMISSION

EXCAVATION PAY LIMITS, BACKFILL, & SOLID SODDING FOR BOX CULVERTS

STANDARD DRAWING RCB-2

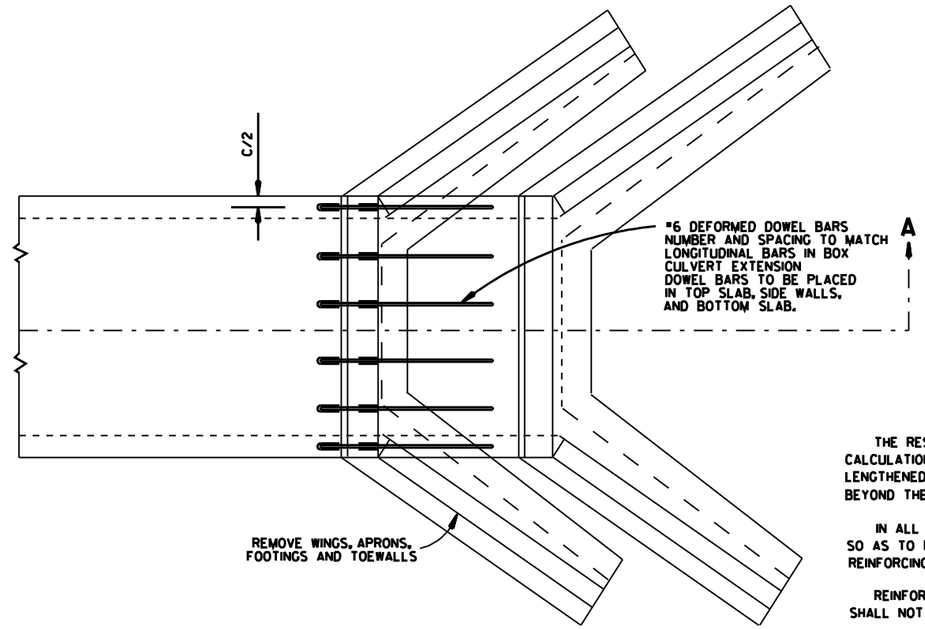


TOP VIEW
R.C. BOX CULVERT

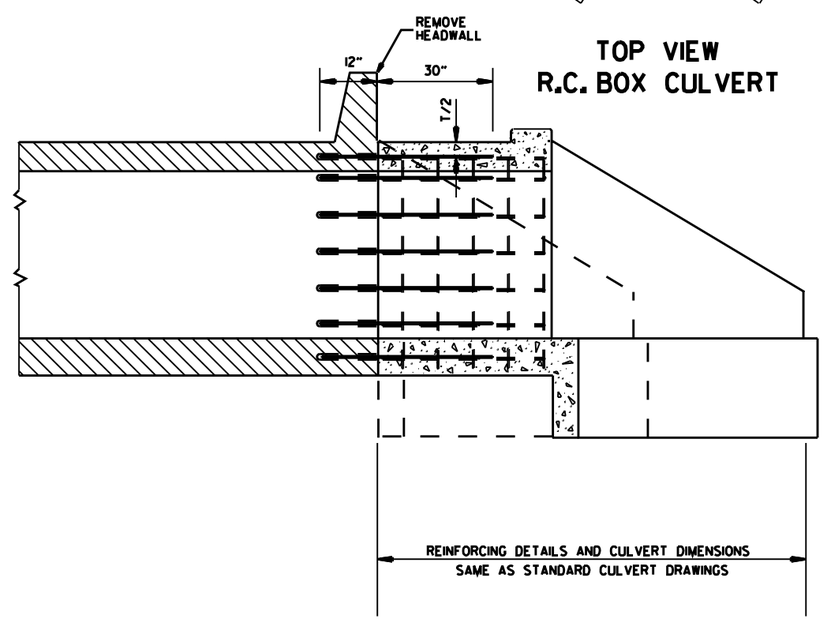


SECTION A-A

METHOD 1



TOP VIEW
R.C. BOX CULVERT



SECTION A-A

METHOD 2

GENERAL NOTES

	USE FOR METHOD
THE RESIDENT ENGINEER WILL MAKE INDIVIDUAL CALCULATIONS OF QUANTITIES FOR EACH STRUCTURE LENGTHENED, MAKING NO ALLOWANCE FOR OVERBREAKAGE BEYOND THE LINES INDICATED.	1
IN ALL INSTANCES CONCRETE SHALL BE REMOVED SO AS TO PERMIT FULL 40 DIAMETER SPLICE OF REINFORCING STEEL.	1
REINFORCING STEEL REMOVED FROM EXISTING STRUCTURE SHALL NOT BE REUSED IN CONSTRUCTING EXTENSION.	1&2
ON R.C. BOX CULVERTS THAT HAVE AN EXISTING CONCRETE APRON, THE CONCRETE APRON SHALL BE REMOVED WITH THE WINGS. THE COST OF REMOVING ALL OLD CONCRETE WILL BE INCLUDED IN THE PRICE BID PER CUBIC YARD FOR NEW CONCRETE OF THE CLASS SPECIFIED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.	1&2
MATERIALS FOR SECURING DOWEL BARS SHALL MEET THE REQUIREMENTS OF SECTION 507.02 OF THE STANDARD SPECIFICATIONS.	2
DOWEL BARS SHALL BE INSTALLED AS FOLLOWS: THE DRILLING PROCEDURE SHALL BE APPROVED BY THE ENGINEER. THE FILLING SYSTEM SHALL BE APPROVED BY THE ENGINEER, AND SHALL BE AN INJECTION-TYPE SYSTEM WHICH WILL INSURE THAT SUFFICIENT MATERIAL IS INJECTED SO IT COMPLETELY SURROUNDS THE BARS AND FILLS THE HOLES.	2
THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER METHOD 1 OR METHOD 2, REGARDLESS OF WHICH METHOD IS USED. PAY QUANTITIES WILL BE CALCULATED BASED ON METHOD 1.	1&2

NOTE:
NO PART OF THIS STANDARD IS TO BE USED FOR ANY DETAILS RELATIVE TO NEW CONSTRUCTION.

SEE STANDARD DRAWING LISTED IN TABULATION OF STRUCTURES FOR ALL NEW CONSTRUCTION DETAILS.

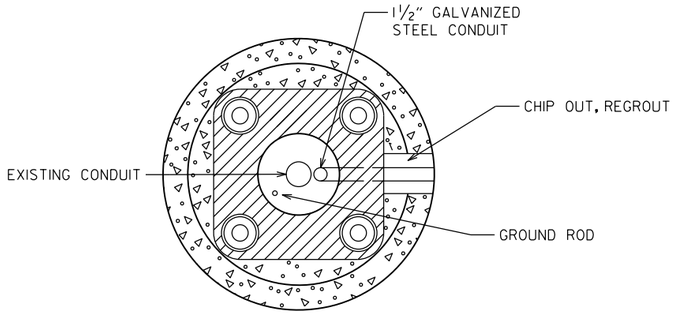
DATE	REVISION	DATE FILM
10-12-95	CHANGED DRAWING # FROM 144-A	
4-1-93	ADDED GENERAL NOTE	
10-1-92	ADDED ALT. METHOD OF EXTENSION	
11-30-89	REDRAWN	
1-4-83	ELIMINATED CONCRETE CLASS	
12-20-56	RETRACED	

ARKANSAS STATE HIGHWAY COMMISSION

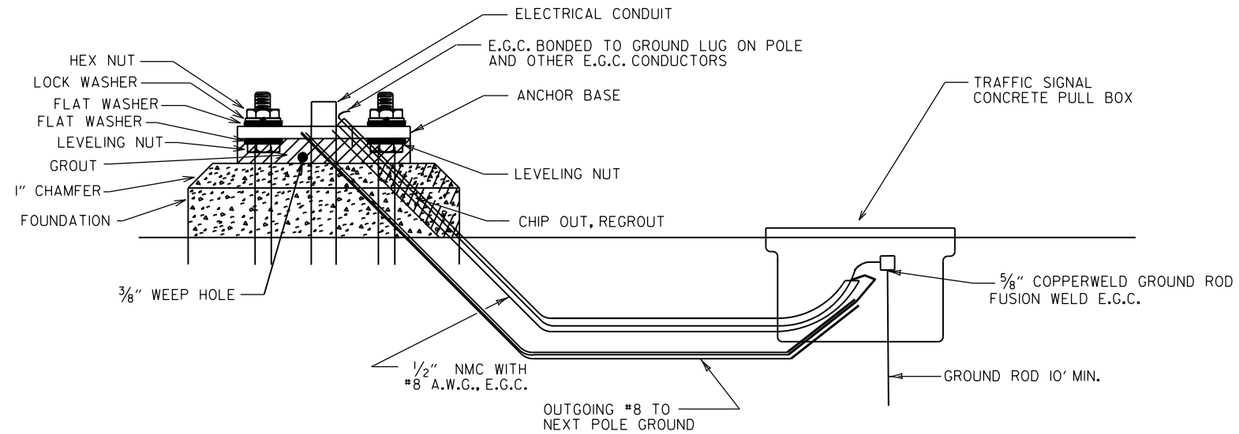
METHOD OF EXTENDING EXISTING R.C. BOX CULVERTS

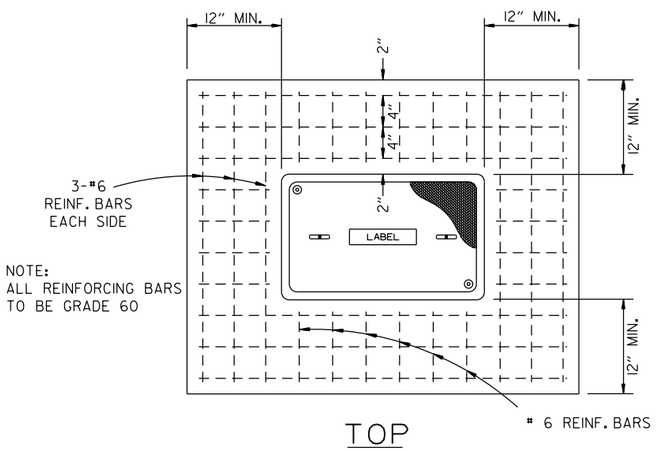
STANDARD DRAWING RCB-3

CONDUIT ENTRY TO EXISTING POLE BASE



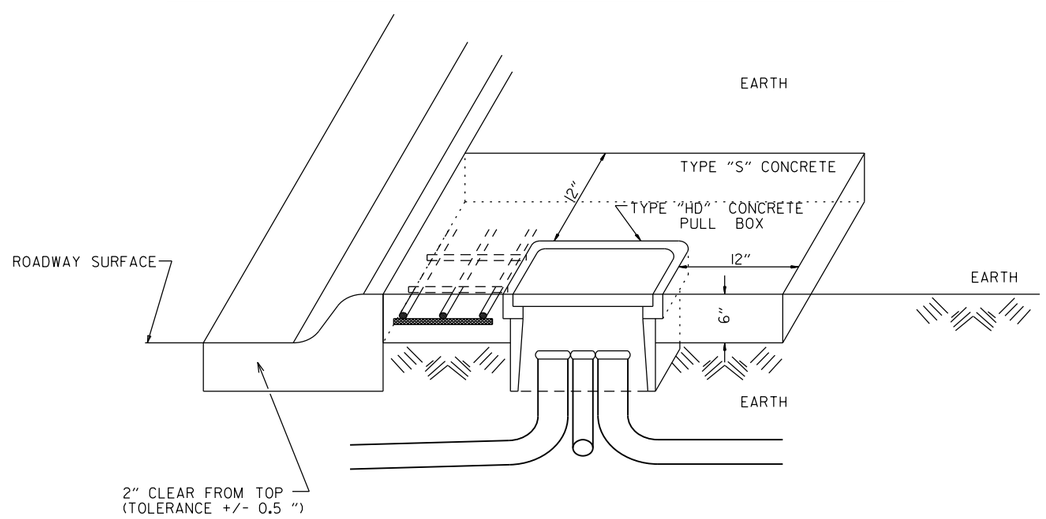
ANCHOR BASE



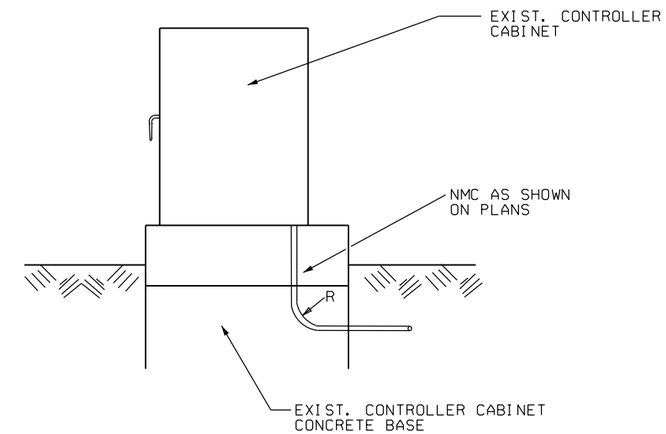


TOP

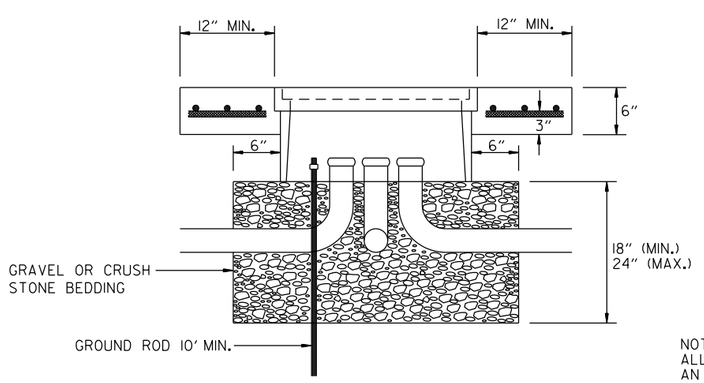
TYPE "HD" CONCRETE PULL BOX DETAIL



CONDUIT ENTRY TO EXISTING CONTROLLER CABINET



NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.



ELEVATION

NOTE:
ALL TYPE 1 HD, TYPE 2 HD, AND TYPE 3 HD CONCRETE PULL BOXES ARE INSTALLED WITH AN APRON OF CONCRETE 12" WIDE AND 6" IN DEPTH. ALL PAYMENT SHALL BE INCLUDED IN THE PRICE OF THE TYPE HD CONCRETE PULL BOX. THE CONCRETE PULL BOX SHALL BE INSTALLED FLUSH TO SURROUNDING GRADE UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. THE CONCRETE SHALL BE CLASS "S". THREE #6 REINFORCING BARS IN THE APRON ON ALL SIDES OF THE CONCRETE PULL BOX IS REQUIRED IN CONCRETE.

DATE	REVISION	FILMED
02-13-24	REVISED NOTES AND TYPE "HD" CONCRETE PULL BOX DETAILS	
11-16-17	REVISED NOTES	
09-02-15	REVISED PULL BOX DEPTH	
09-12-13	ISSUED AS STANDARD DRAWING	
05-21-09	REVISED GROUNDING	
07-31-08	ADDED & REVISED CONDUIT ENTRY	
06-23-04	REVISED CLEARANCE AT CURB ENTRY	
01-04-02	ADDED REINFORCING TO BOX APRON	
07-02-01	REVISED	
12-27-99	REVISED NOTES	
11-18-98	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

HEAVY DUTY PULL BOX

STANDARD DRAWING SD-6

SUPERELEVATION TABLE FOR ONE - WAY TRAFFIC

DEGREE OF CURVE	30 MPH			35 MPH			40 MPH			45 MPH		
	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE
0° 15'	NC			NC			NC			NC		
0° 30'	NC			NC			NC			NC		
0° 45'	NC			NC			NC			NC		
1° 00'	NC			NC			NC			RC	108	
1° 15'	NC			NC			RC	101		0.022	114	
1° 30'	NC			RC	94		0.022	106		0.028	130	
1° 45'	RC	86		RC	94		0.026	116		0.030	136	
2° 00'	RC	86		0.024	103		0.028	121		0.034	146	
2° 15'	RC	86		0.026	108		0.032	131		0.038	157	
2° 30'	0.022	90		0.028	113		0.034	136		0.042	168	
2° 45'	0.024	95		0.030	118		0.038	146		0.046	179	
3° 00'	0.026	100		0.034	126		0.040	151		0.050	190	300
3° 15'	0.028	103		0.036	131		0.044	161		0.052	194	
3° 30'	0.030	108		0.038	136		0.046	167	250	0.056	205	
3° 45'	0.032	112		0.040	140		0.050	176		0.058	211	
4° 00'	0.034	116		0.042	145	250	0.052	181		0.062	222	
4° 15'	0.036	120		0.044	150		0.054	186		0.064	227	
4° 30'	0.036	120		0.046	155		0.056	192		0.068	238	
4° 45'	0.038	125		0.048	160		0.060	202		0.070	244	
5° 00'	0.040	130		0.050	164		0.062	206		0.072	248	
5° 30'	0.044	138	250	0.054	173		0.066	217		0.078	265	
6° 00'	0.046	143		0.058	182		0.070	227		0.082	276	
6° 30'	0.050	151		0.062	192		0.074	238		0.086	287	
7° 00'	0.052	156		0.064	197		0.078	247		0.090	298	
7° 30'	0.054	160		0.068	206		0.080	252		0.092	302	350
8° 00'	0.058	168		0.070	211		0.084	263		0.094	308	
8° 30'	0.060	173		0.072	215		0.086	268	300	0.096	313	
9° 00'	0.062	178		0.076	224		0.088	272		0.098	319	
9° 30'	0.064	181		0.078	229		0.092	282		0.100	324	
10° 00'	0.066	186		0.080	234		0.094	288				
11° 00'	0.070	194		0.084	244		0.096	293				
12° 00'	0.074	203		0.088	253		0.098	298				
13° 00'	0.076	208		0.090	258	300	0.100	302	350			
14° 00'	0.080	216		0.094	266							
15° 00'	0.082	221		0.096	271							
16° 00'	0.086	229		0.098	276							
17° 00'	0.088	233		0.100	281							
18° 00'	0.090	238										
19° 00'	0.092	242										
20° 00'	0.094	246										
21° 00'	0.096	251	300									
22° 00'	0.096	251										
23° 00'	0.098	254										
24° 00'	0.098	254										
25° 00'	0.100	259										
	D MAX = 28° 30'			D MAX = 19° 30'			D MAX = 13° 45'			D MAX = 10° 30'		

DEGREE OF CURVE	50 MPH			55 MPH			60 MPH			65 MPH		
	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE
0° 15'	NC			NC			NC			NC		
0° 30'	NC			NC			RC	115		RC	115	
0° 45'	RC	115		RC	115		0.024	127		0.026	132	
1° 00'	0.022	121		0.026	132		0.030	144		0.034	156	
1° 15'	0.028	138		0.032	150		0.038	167		0.042	179	
1° 30'	0.032	150		0.038	167		0.044	185		0.050	202	350
1° 45'	0.036	161		0.044	185		0.050	202	350	0.056	218	
2° 00'	0.042	179		0.048	196		0.056	218		0.064	242	
2° 15'	0.046	190		0.054	214		0.062	236		0.070	259	
2° 30'	0.050	202		0.058	224	350	0.068	253		0.076	276	
2° 45'	0.054	214	300	0.064	242		0.072	265		0.082	294	
3° 00'	0.058	224		0.068	253		0.078	282		0.088	311	
3° 15'	0.062	236		0.072	265		0.082	294		0.092	323	400
3° 30'	0.066	247		0.076	276		0.086	305		0.096	334	
3° 45'	0.070	259		0.080	288		0.090	317		0.098	340	
4° 00'	0.072	265		0.084	300		0.094	329	400	0.100	346	
4° 15'	0.076	276		0.086	305		0.096	334				
4° 30'	0.078	282		0.090	317		0.098	340				
4° 45'	0.082	294		0.092	323		0.100	346				
5° 00'	0.084	300		0.094	329	400						
5° 30'	0.088	311		0.098	340							
6° 00'	0.092	323		0.100	346							
6° 30'	0.096	334	350									
7° 00'	0.098	340										
7° 30'	0.100	346										
8° 00'												
8° 30'												
9° 00'												
9° 30'												
10° 00'												
11° 00'												
12° 00'												
13° 00'												
14° 00'												
15° 00'												
16° 00'												
17° 00'												
18° 00'												
19° 00'												
20° 00'												
21° 00'												
22° 00'												
23° 00'												
24° 00'												
25° 00'												
	D MAX = 8° 25'			D MAX = 6° 30'			D MAX = 5° 15'			D MAX = 4° 15'		

DEGREE OF CURVE	70 MPH			75 MPH		
	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE	e	Ls (FT) MINIMUM	Ls (FT) DESIRABLE
0° 15'	NC			NC		
0° 30'	RC	115		0.022	121	
0° 45'	0.030	144		0.032	150	
1° 00'	0.038	167		0.042	179	350
1° 15'	0.046	190	350	0.052	208	
1° 30'	0.056	218		0.062	236	
1° 45'	0.064	242		0.070	259	
2° 00'	0.070	259		0.080	288	400
2° 15'	0.078	282		0.088	311	
2° 30'	0.086	305	400	0.096	334	450
2° 45'	0.092	323		0.100	346	
3° 00'	0.098	340	450			
3° 15'	0.100	346				
3° 30'						
3° 45'						
4° 00'						
4° 15'						
4° 30'						
4° 45'						
5° 00'						
5° 30'						
6° 00'						
6° 30'						
7° 00'						
7° 30'						
8° 00'						
8° 30'						
9° 00'						
9° 30'						
10° 00'						
11° 00'						
12° 00'						
13° 00'						
14° 00'						
15° 00'						
16° 00'						
17° 00'						
18° 00'						
19° 00'						
20° 00'						
21° 00'						
22° 00'						
23° 00'						
24° 00'						
25° 00'						
	D MAX = 3° 30'			D MAX = 2° 45'		

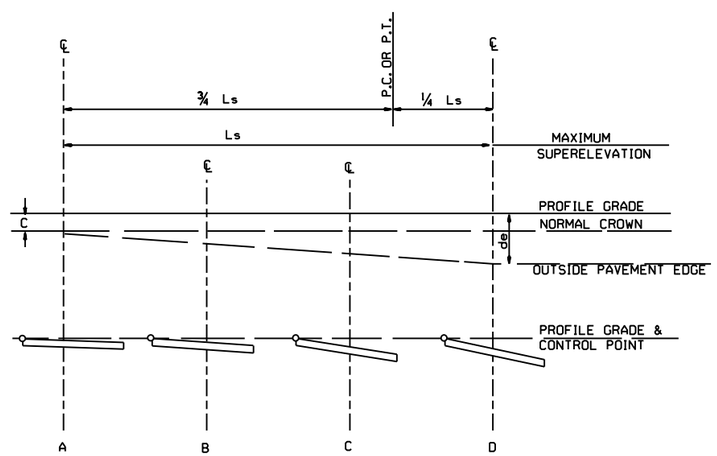
ABBREVIATIONS

NC - NORMAL CROWN
RC - REVERSE CROWN, SUPERELEVATION AT NORMAL CROWN SLOPE
S - SUPERELEVATION
L - DISTANCE FROM BEGINNING OF SUPERELEVATION TRANSITION TO ANY POINT (FT.)
d - WIDTH OF PAVEMENT
e - MAXIMUM RATE OF SUPERELEVATION (FT. PER FT.)
Ls - LENGTH OF SUPERELEVATION TRANSITION (FT.)
C - NORMAL CROWN (FT.)

GENERAL NOTES

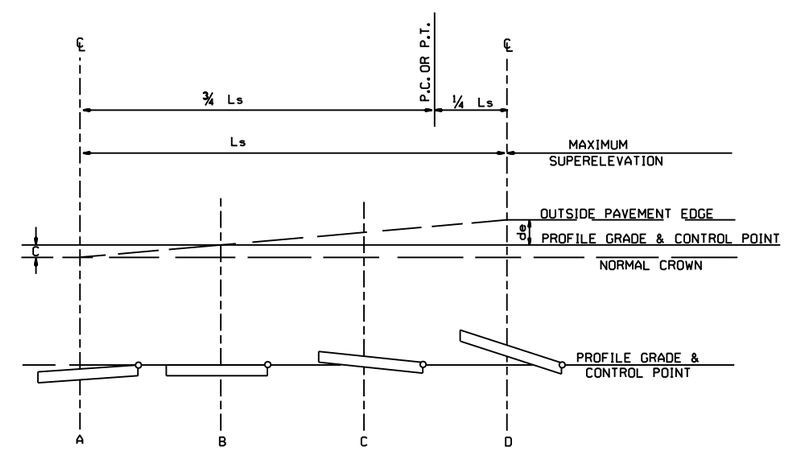
1. ON PAVEMENT WITH ONE-WAY TRAFFIC, THE SUPERELEVATION SHALL BE REVOLVED ON THE PROFILE GRADE POINT.
2. SUPERELEVATION VALUES SHOWN ON THE CROSS SECTIONS ARE VALUES (+) OR (-) TO BE ADDED OR SUBTRACTED FROM THE POINT OF CONTROL.
3. LENGTHS FOR Ls MAY BE ROUNDED IN MULTIPLES OF 25 FT. OR 50 FT. TO PERMIT SIMPLER CALCULATIONS.
4. MINIMUM Ls VALUES MAY BE USED FOR RAMPS; DESIRABLE VALUES SHALL APPLY TO MAIN LANES.
5. DIVIDED PAVEMENTS WIDER THAN 4 LANES SHALL HAVE ADDITIONAL TRANSITION LENGTHS AS FOLOWS:

6 LANE DIVIDED---------+20%
8 LANE DIVIDED---------+50%



ONE-WAY TRAFFIC INSIDE LANE

SUPERELEVATION FORMULA = $S = -\frac{L(de-C)}{Ls} - C$



ONE-WAY TRAFFIC OUTSIDE LANE

SUPERELEVATION FORMULA = $S = +\frac{L(de+C)}{Ls} - C$

DATE	REVISION	DATE FILMED
11-07-19	REVISED SUPERELEVATION TABLE	
01-09-87	ISSUED	578-1-15-87

ARKANSAS STATE HIGHWAY COMMISSION

TABLES AND METHOD OF SUPERELEVATION FOR ONE-WAY TRAFFIC

STANDARD DRAWING SE-1

SUPERELEVATION TABLE FOR TWO - WAY TRAFFIC

DEGREE OF CURVE	30 MPH e	30 MPH Ls (FT) MINIMUM	30 MPH Ls (FT) DESIRABLE	35 MPH e	35 MPH Ls (FT) MINIMUM	35 MPH Ls (FT) DESIRABLE	40 MPH e	40 MPH Ls (FT) MINIMUM	40 MPH Ls (FT) DESIRABLE	45 MPH e	45 MPH Ls (FT) MINIMUM	45 MPH Ls (FT) DESIRABLE	50 MPH e	50 MPH Ls (FT) MINIMUM	50 MPH Ls (FT) DESIRABLE	55 MPH e	55 MPH Ls (FT) MINIMUM	55 MPH Ls (FT) DESIRABLE	60 MPH e	60 MPH Ls (FT) MINIMUM	60 MPH Ls (FT) DESIRABLE	65 MPH e	65 MPH Ls (FT) MINIMUM	65 MPH Ls (FT) DESIRABLE	70 MPH e	70 MPH Ls (FT) MINIMUM	70 MPH Ls (FT) DESIRABLE	75 MPH e	75 MPH Ls (FT) MINIMUM	75 MPH Ls (FT) DESIRABLE
0° 15'	NC			NC			NC			NC			NC			NC			NC			NC			NC			NC		
0° 30'	NC			NC			NC			NC			NC			NC			RC	96		RC	96		RC	96		0.022	101	
0° 45'	NC			NC			NC			NC			RC	96		RC	96		0.024	106		0.026	110		0.030	120		0.032	125	
1° 00'	NC			NC			NC			RC	90		0.022	101		0.026	110		0.030	120		0.034	130		0.038	139		0.042	149	300
1° 15'	NC			NC			RC	84		0.022	95		0.028	115		0.032	125		0.038	139		0.042	149		0.046	158	300	0.052	173	
1° 30'	NC			RC	78		0.022	88		0.028	108		0.032	125		0.038	139		0.044	154		0.050	168		0.056	182		0.062	197	
1° 45'	RC	72		RC	78		0.026	97		0.030	113		0.036	134		0.044	154		0.050	168	300	0.056	182	300	0.064	202		0.070	216	
2° 00'	RC	72		0.024	86		0.028	101		0.034	122		0.042	149		0.048	163		0.056	182		0.064	202		0.070	216		0.080	240	
2° 15'	RC	72		0.026	90		0.032	109		0.038	131		0.046	158		0.054	178	300	0.062	197		0.070	216		0.078	235		0.088	259	350
2° 30'	0.022	75		0.028	94		0.034	113		0.042	140		0.050	168		0.058	187		0.068	211		0.076	230		0.086	254	350	0.096	278	
2° 45'	0.024	79		0.030	98		0.038	122		0.046	149	200	0.054	178	250	0.064	202		0.072	221		0.082	245		0.092	269		0.100	288	400
3° 00'	0.026	83		0.034	105		0.040	126		0.050	158		0.058	187		0.068	211		0.078	235		0.088	259		0.098	283		D MAX = 2° 45'		
3° 15'	0.028	86		0.036	109		0.044	134	200	0.052	162		0.062	197		0.072	221		0.082	245		0.092	269		0.100	288	400			
3° 30'	0.030	90		0.038	113		0.046	139		0.056	171		0.066	206		0.076	230		0.086	254		0.096	278	350	D MAX = 3° 30'					
3° 45'	0.032	93		0.040	117		0.050	147		0.058	176		0.070	216		0.080	240		0.090	264		0.098	283							
4° 00'	0.034	97		0.042	121	200	0.052	151		0.062	185		0.072	221		0.084	250		0.094	274	350	0.100	288							
4° 15'	0.036	100		0.044	125		0.054	155		0.064	189		0.076	230		0.086	254		0.096	278		D MAX = 4° 15'								
4° 30'	0.036	100	200	0.046	129		0.056	160		0.068	198		0.078	235		0.090	264		0.098	283										
4° 45'	0.038	104		0.048	133		0.060	168		0.070	203		0.082	245		0.092	269	350	0.100	288										
5° 00'	0.040	108		0.050	137		0.062	172		0.072	207		0.084	250		0.094	274		D MAX = 5° 15'										
5° 30'	0.044	115		0.054	144		0.066	181		0.078	221	250	0.088	259		0.098	283													
6° 00'	0.046	119		0.058	152		0.070	189		0.082	230		0.092	269		0.100	288													
6° 30'	0.050	126		0.062	160		0.074	198		0.086	239		0.096	278	300	D MAX = 6° 30'														
7° 00'	0.052	130		0.064	164		0.078	206		0.090	248		0.098	283																
7° 30'	0.054	133		0.068	172		0.080	210		0.092	252	300	0.100	288																
8° 00'	0.058	140		0.070	176		0.084	219		0.094	257		D MAX = 8° 25'																	
8° 30'	0.060	144		0.072	179		0.086	223	250	0.096	261																			
9° 00'	0.062	148		0.076	187		0.088	227		0.098	266																			
9° 30'	0.064	151		0.078	191		0.092	235		0.100	270																			
10° 00'	0.066	155		0.080	195		0.094	240		D MAX = 10° 30'																				
11° 00'	0.070	162		0.084	203		0.096	244																						
12° 00'	0.074	169		0.088	211	250	0.098	248																						
13° 00'	0.076	173		0.090	215		0.100	252	300																					
14° 00'	0.080	180		0.094	222		D MAX = 13° 45'																							
15° 00'	0.082	184		0.096	226																									
16° 00'	0.086	191		0.098	230																									
17° 00'	0.088	194		0.100	234																									
18° 00'	0.090	198	250	D MAX = 19° 30'																										
19° 00'	0.092	202																												
20° 00'	0.094	205																												
21° 00'	0.096	209																												
22° 00'	0.096	209																												
23° 00'	0.098	212																												
24° 00'	0.098	212																												
25° 00'	0.100	216																												
D MAX = 28° 30'																														

ABBREVIATIONS

NC - NORMAL CROWN
RC - REVERSE CROWN, SUPERELEVATION AT NORMAL CROWN SLOPE
e - RATE OF SUPERELEVATION (FT. PER FT.)
Ls - LENGTH OF SUPERELEVATION TRANSITION (FT.)
L - DISTANCE FROM BEGINNING OF SUPERELEVATION TRANSITION TO ANY POINT (FT.)
d - WIDTH OF PAVEMENT (FT.) OR WIDTH OF SUBGRADE (FT.)
C - NORMAL CROWN (FT.)

GENERAL NOTES

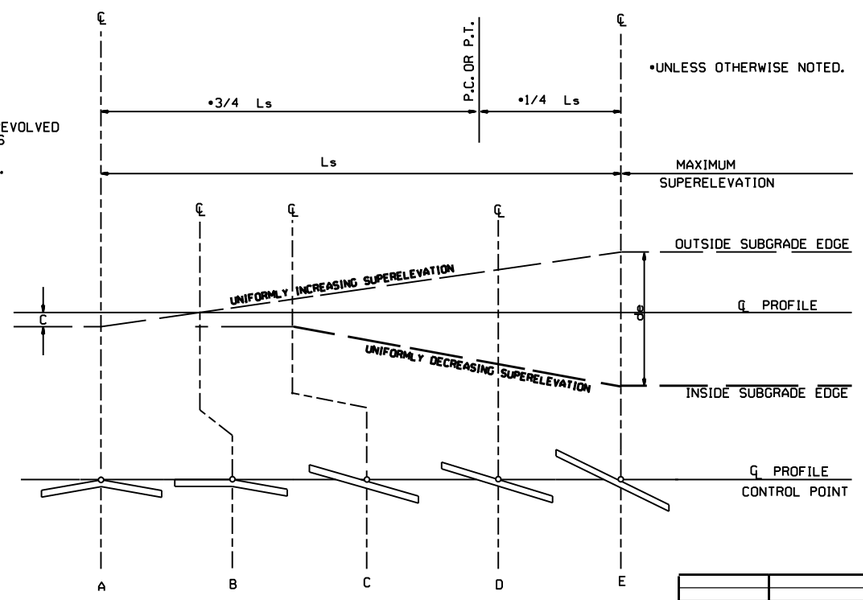
1. ON PAVEMENT WITH TWO-WAY TRAFFIC, THE SUPERELEVATION SHALL BE REVOLVED ON THE INSIDE PAVEMENT EDGE UNLESS OTHERWISE NOTED ON THE PLANS
2. SUPERELEVATION VALUES SHOWN ON THE CROSS SECTIONS ARE VALUES (+) OR (-) TO BE ADDED TO OR SUBTRACTED FROM THE POINT OF CONTROL.
3. LENGTHS FOR L MAY BE ROUNDED IN MULTIPLES OF 25 FT. OR 50 FT. TO PERMIT SIMPLER CALCULATIONS.
4. PAVEMENTS WIDER THAN 2 LANES SHALL HAVE ADDITIONAL TRANSITION LENGTHS AS FOLLOWS:

3 LANE UNDIVIDED - - - - - +20%
4 LANE UNDIVIDED - - - - - +50%
5 LANE UNDIVIDED - - - - - +80%
6 LANE UNDIVIDED - - - - - +100%

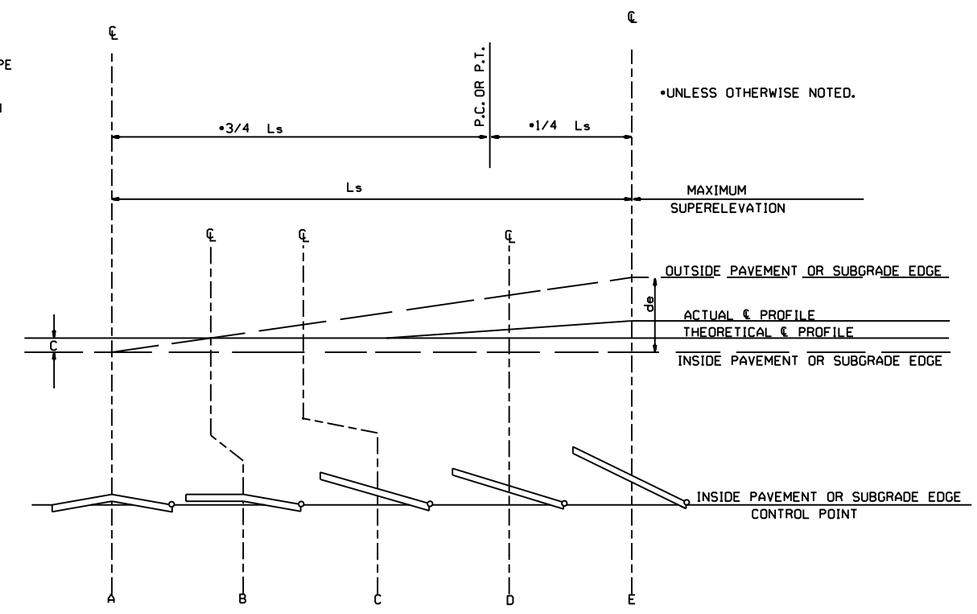
NOTE: MAINTAIN NORMAL CROWN ON INSIDE UNTIL SUPERELEVATION EXCEEDS 2C.

RATE OF SUPERELEVATION SHALL BE COMPUTED ON STRAIGHT LINE METHOD USING APPLICABLE Ls.

SUPERELEVATION FORMULA $= \frac{Lde}{Ls}$



STANDARD METHOD WHEN SUPERELEVATION REVOLVES AROUND CENTER LINE



STANDARD METHOD WHEN SUPERELEVATION REVOLVES AROUND INNER SUBGRADE POINT OR INNER PAVEMENT EDGE

NOTE: MAINTAIN NORMAL CROWN ON INSIDE UNTIL SUPERELEVATION EXCEEDS 2C.

DATE	REVISION	DATE FILMED
11-07-19	REVISED SUPERELEVATION TABLE	
10-18-96	ADDED FORMULA	
01-09-87	ISSUED	534-1-9-87

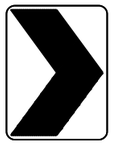
ARKANSAS STATE HIGHWAY COMMISSION

TABLES AND METHOD OF SUPERELEVATION FOR TWO-WAY TRAFFIC

STANDARD DRAWING SE-2

R1-1
30"X30"

W1-3
30"X30"
(LT. OR RT.)



W1-8
18"X24"

W2-5
30"X30"

W3-1
36"X36"

W5-1
36"X36"

M6-3
21"X15"

R1-2
36"X36"X36"

W1-4
30"X30"
(LT. or RT.)

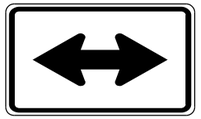
W2-1
30"X30"

S1-1
36"X36"

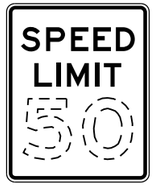
W3-2
36"X36"

County
Route Marker
M1-6
24"X24"

NOTE: REFLECTORIZED YELLOW LEGEND (COUNTY NAME, ROUTE LETTER & NUMBER) & BORDER ON A BLUE BACKGROUND.



M6-4
21"X15"



R2-1
24"X30"

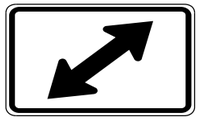
W1-5
30"X30"
(LT. or RT.)

W2-2
30"X30"

W5-2
36"X36"

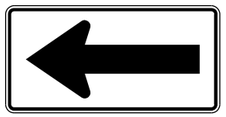
W8-3
36"X36"

R1-3P
18"X6"



M6-5
21"X15"

W1-1
30"X30"
(LT. or RT.)

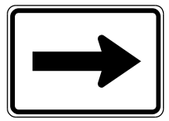


W1-6
48"X24"

W2-3
30"X30"
(LT. or RT.)

W5-3
36"X36"

W13-1P
18"X18"

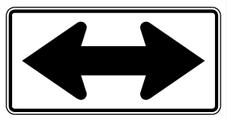


M6-1
21"X15"

NOTE: ALL M6 SIGNS TO BE MADE WITH REFLECTORIZED YELLOW ARROW & BORDER WITH BLUE BACKGROUND.

M6-6
21"X15"

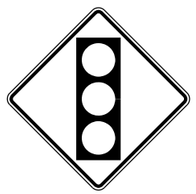
W1-2
30"X30"
(LT. or RT.)



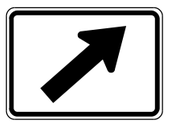
W1-7
48"X24"

W2-4
30"X30"

W10-1
36" DIAMETER



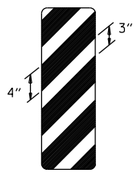
W3-3
36"X36"



M6-2
21"X15"

S4-3P
24"X8"

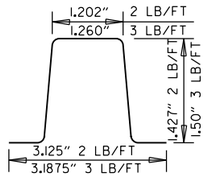
S4-2P
24"X10"



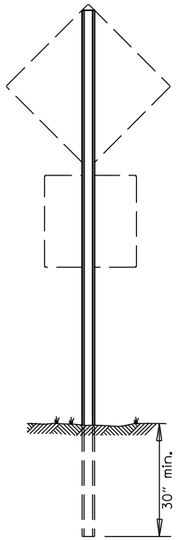
OM-3
12"X36"
(LT. or RT.)

MINIMUM DIMENSIONS SHOWN

SUPPORT SECTION

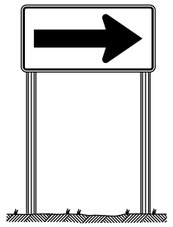


(U-CHANNEL)
STANDARD SUPPORT
ASSEMBLIES

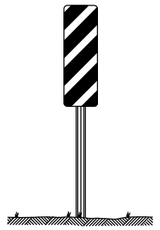


TYPE A

NOTE: LENGTH OF SIGN POSTS SHALL BE DETERMINED SO AS TO PROVIDE FOR MINIMUM VERTICAL CLEARANCES AS CALLED FOR IN THE SPECIFICATIONS PLUS A MINIMUM VERTICAL PENETRATION OF 30" IN THE SOIL.



TYPE B



TYPE C

MINIMUM WEIGHT

TYPE A & B = 3 LBS./FT.
TYPE C = 2 LBS./FT.

STANDARD HIGHWAY SIGNS

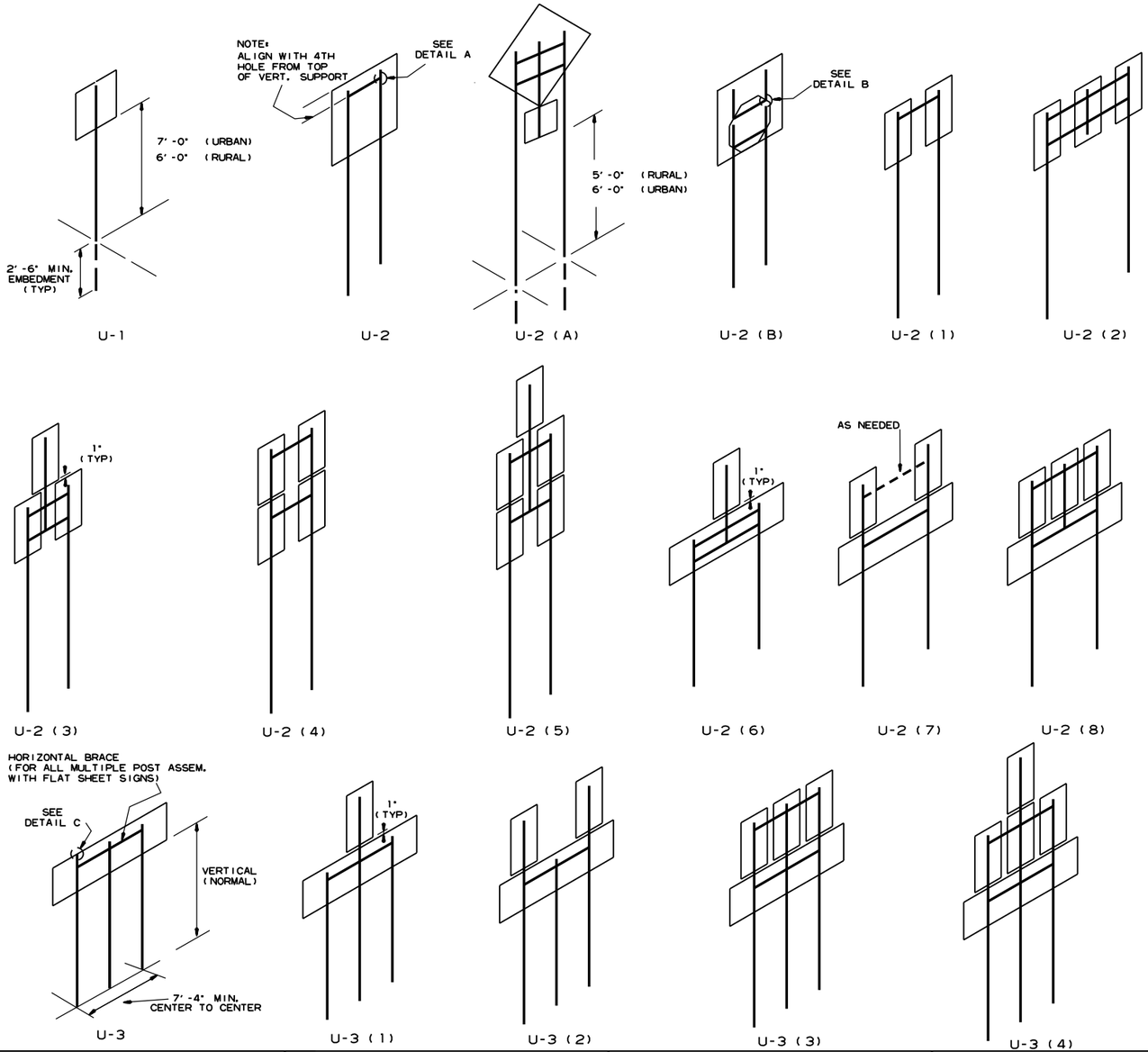
DATE	REVISION	DATE FILMED
9-12-13	DELETED JOB NO. BLOCK; REVISED R1-3 TO R1-3P	
4-17-08	REVISED SIGN DESIGNATION - W3-1 & W3-2	
4-10-03	REVISED W5-2, W8-3, OM-3; ADDED W1-8	
1-5-81	REDRAWN	960-1-15-81
9-15-78	ADDED W14-3	877-9-15-78
9-2-76	POST WT.	623-9-3-76
5-3-76	STEEL POST WT. FROM 2#-3#; ADDED S4-2 & S4-3	504-5-3-76
8-12-74	REV. HT. TYPE "C" ASSEMBLY	500-8-21-74
12-21-72	ADDED M6-2,3,4,5,6	500-12-21-72
12-1-72	ISSUED	562-12-1-72

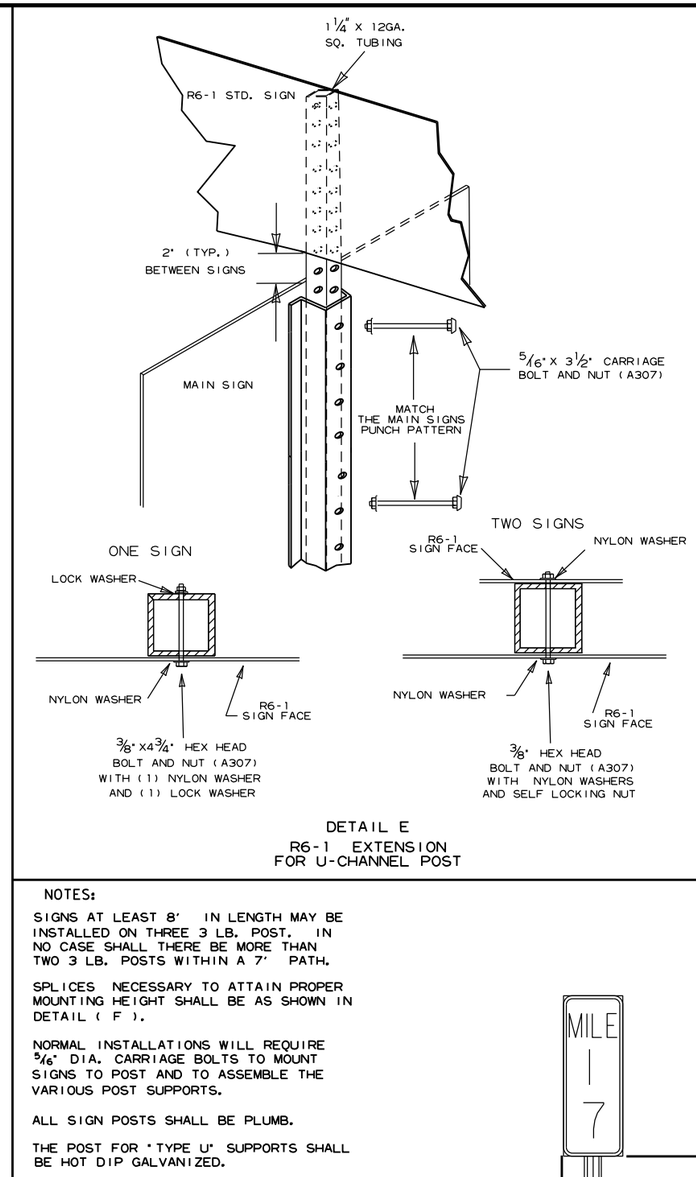
SUPPORT ASSEMBLIES

ARKANSAS STATE HIGHWAY COMMISSION

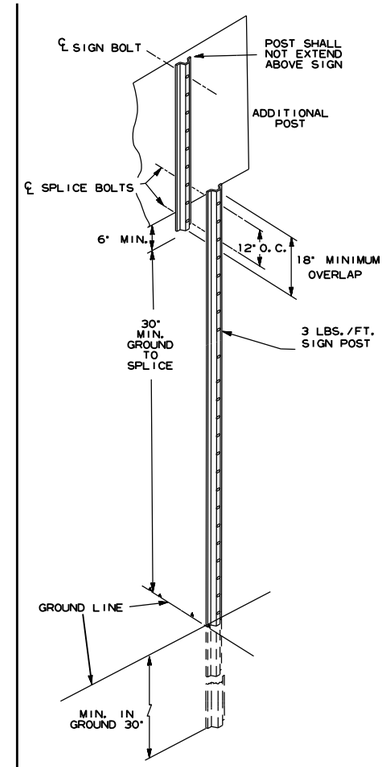
STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES

STANDARD DRAWING SHS-1





DETAIL E
R6-1 EXTENSION
FOR U-CHANNEL POST



DETAIL F
DETAIL OF SPLICES

NOTES:

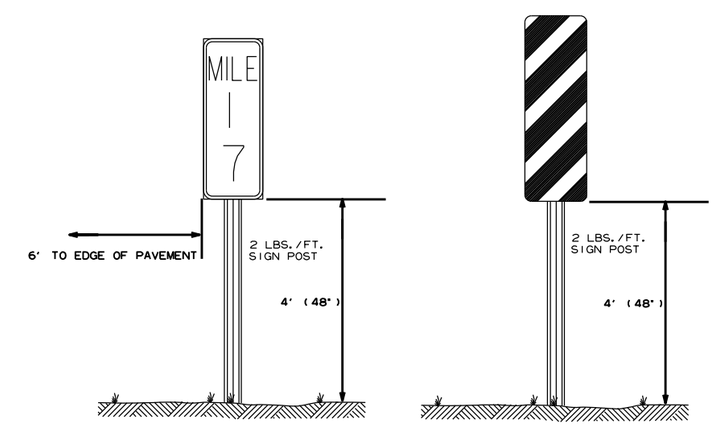
SIGNS AT LEAST 8' IN LENGTH MAY BE INSTALLED ON THREE 3 LB. POST. IN NO CASE SHALL THERE BE MORE THAN TWO 3 LB. POSTS WITHIN A 7' PATH.

SPLICES NECESSARY TO ATTAIN PROPER MOUNTING HEIGHT SHALL BE AS SHOWN IN DETAIL (F).

NORMAL INSTALLATIONS WILL REQUIRE 5/16" DIA. CARRIAGE BOLTS TO MOUNT SIGNS TO POST AND TO ASSEMBLE THE VARIOUS POST SUPPORTS.

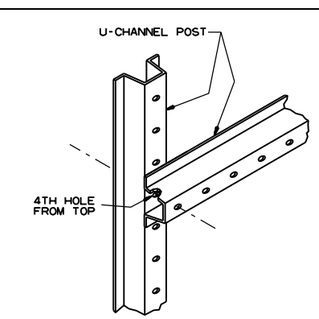
ALL SIGN POSTS SHALL BE PLUMB.

THE POST FOR "TYPE U" SUPPORTS SHALL BE HOT DIP GALVANIZED.

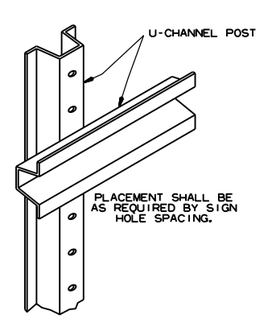


TYPICAL MILE MARKER INSTALLATION

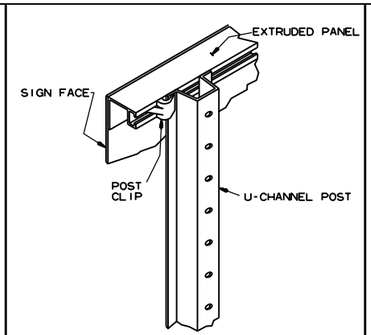
TYPICAL OM-3 INSTALLATION AT EDGE OF OBSTRUCTION



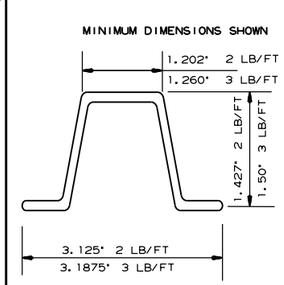
DETAIL A
SHOWING HORIZONTAL BRACE



DETAIL B
SHOWING BACK-TO-BACK INSTALLATION



DETAIL C
SHOWING GUIDE SIGN MOUNTING WITH EXTRUDED PANELS



DETAIL C
U-CHANNEL POST

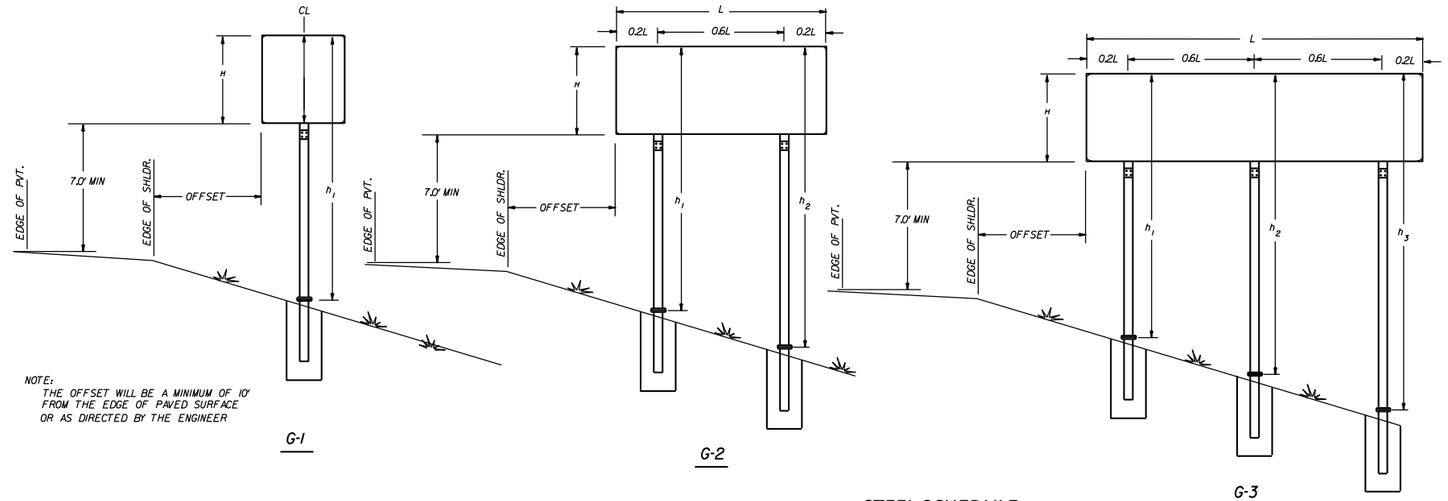
DATE	REVISION	FILMED
7-25-19	REVISED CARRIAGE BOLT WITH MATERIAL REQUIREMENT	
2-27-14	REVISED NOTES.	
9-12-13	REVISED U-2(3), U-2(6), U-3(1), DETAIL D; ADDED DETAILS E & F; ADDED TYPICAL MARKERS	
10-9-03	REMOVED ROUND POST & REVISED SPACING	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL	6-8-95
2-2-95	REDRAWN	2-2-95

ARKANSAS STATE HIGHWAY COMMISSION

U-CHANNEL POST ASSEMBLIES

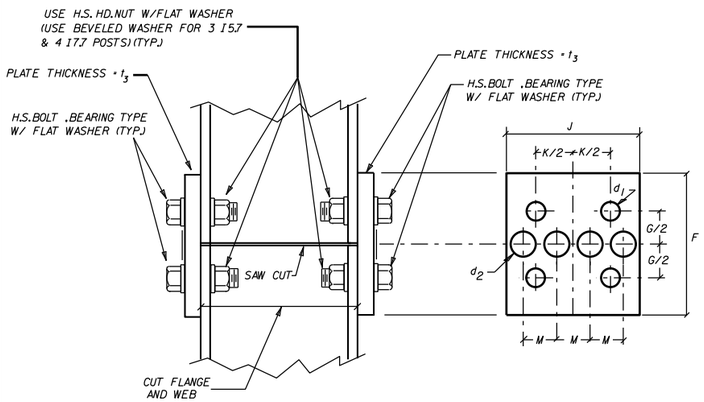
STANDARD DRAWING SHS-2

POST SIZE	BASE CONNECTION DATA											FUSE PLATE DATA										
	BOLT SIZE	BOLT TORQUE (INCH/LBS)	A	B	C	D	E	t_1	t_2	W	R	F	G		J	K	M	d_1	d_2	t_3	BOLT SIZE	WT. OF EACH FUSE PLATE LBS.
W 6X9	5/8" x 2 3/4"	450"-680"	5"	2"	1 1/4"	2 3/4"	1 1/8"	3/4"	1/2"	1/4"	11/32"	4 1/4"	2"		4"	2 1/4"	1"	9/16"	3/4"	1/4"	1/2" x 1 1/2"	1.01
W 6X12												5"	2 1/2"		6"	3 1/2"	1 1/2"	11/16"	1 1/4"	3/8"	5/8" x 2 1/4"	2.51
W 6X15												5"	2 1/2"		5 1/4"	2 3/4"	1 1/4"	13/16"	1 1/16"	3/8"	3/4" x 2 1/4"	2.26
W 8X18	3/4" x 3 1/2"	750"-1050"	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1"	3/4"	9/16"	13/32"	5 1/2"	2 1/2"		5 1/4"	2 3/4"	1 1/4"	13/16"	1"	1/2"	3/4" x 2 1/4"	3.35
W 8X21												6"	3"		5 3/4"	2 3/4"	1 3/8"	13/16"	1 1/8"	1/2"	3/4" x 2 1/4"	4.03
W 10X22												6"	3"		6 1/2"	3 1/2"	1 5/8"	13/16"	1 5/16"	1/2"	3/4" x 2 1/4"	4.47
W 10X26																						
W 12X26																						



NOTE:
THE OFFSET WILL BE A MINIMUM OF 10' FROM THE EDGE OF PAVED SURFACE OR AS DIRECTED BY THE ENGINEER

G-1 G-2 G-3



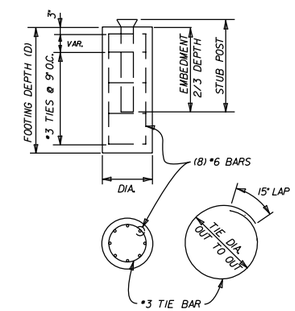
NOTE: USE H.S.HEX HEAD BOLTS.HEX HEAD NUTS AND BEVEL OR FLAT WASHERS (WHERE REQ.) UNDER NUTS. ALL HOLES SHALL BE DRILLED.ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS.HOWEVER FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE PERMITTED. STEEL FUSE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM-A36,ASTM-A441,ASTM-572 GRADE 50,OR ASTM-A588 MAY BE SUBSTITUTED FOR A36 AT THE OPTION OF THE FABRICATOR. STEEL USED SHALL HAVE AN ULTIMATE TENSILE STRENGTH NOT TO EXCEED 80 KSI.

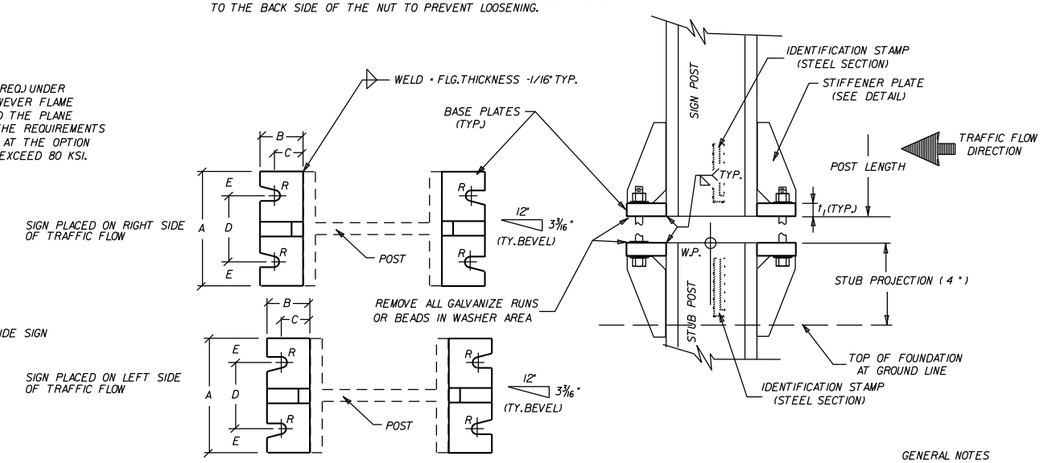
NOTE: SECTIONS SHOWN ARE FOR INSTALLATION ON THE RIGHT SHOULDER AND IN THE GORE. BOLT HOLES IN BASE PLATE ARE SLOTTED AND BEVELED AS SHOWN. USE H.S.BOLTS WITH HEX HD.,HEX NUT AND THREE FLAT WASHERS FOR EACH BOLT.SEE TABLE FOR BOLT DIA. AND TORQUE.
NOTE: ASSEMBLE SIGN POST TO STUB POST USING THE BOLTS SPEC.IN THE TABLE AND AS SHOWN IN THE ELEVATION DETAILS.THERE SHALL BE THREE FLAT WASHERS ON EACH BOLT LOCATED AS SHOWN IN THE ELEVATIONS.USE A SHIM TO PLUMB THE SIGN POST.THEN TIGHTEN THE BOLTS USING A 12" TO 15" WRENCH UNTIL THE WASHERS AND SHIMS ARE SEATED AND THE BOLT THREADS ARE CLEAR ,THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE (SEE TABLE).THE BURR THREADS ADJACENT TO THE BACK SIDE OF THE NUT TO PREVENT LOOSENING.

STEEL SCHEDULE

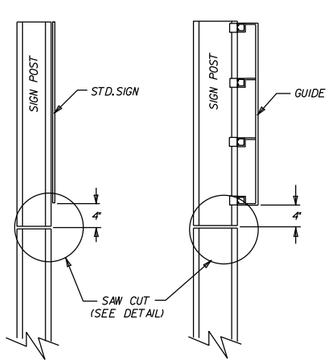
FOOTING DIAMETER	#3 TIE BARS DIAMETER	BAR LENGTH	POUNDS
INCHES	INCHES	FEET	
18	12	4.39	1.65
24	18	5.96	2.24
30	24	7.53	2.83
36	30	9.1	3.42

FOOTINIG DEPTH	#6 STRAIGHT BARS BAR LENGTH	NUMBER REQ'D.	POUNDS
FEET	FEET		
2.50	2.00	8	24.03
3.00	2.50	8	30.04
3.50	3.00	8	36.05
4.00	3.50	8	42.06
4.50	4.00	8	48.06
5.00	4.50	8	54.07
5.50	5.00	8	60.08
6.00	5.50	8	66.09
6.50	6.00	8	72.10
7.00	6.50	8	78.10
7.50	7.00	8	84.11
8.00	7.50	8	90.12





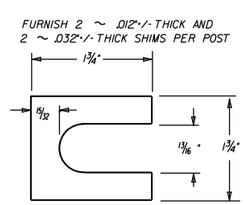
NOTE: BOLT HOLES,USED IN THE MOUNTING OF STANDARD SIGNS SHALL BE LOCATED IN THE FLANGE ADJACENT TO THE NEAR EDGE OF PAVEMENT FOR SINGLE POST ASSEMBLIES AND IN THE OUTSIDE FLANGES FOR MULTIPLE POST ASSEMBLIES.



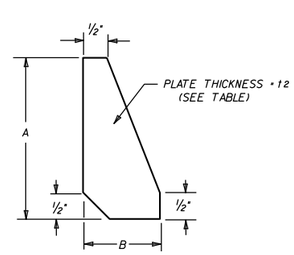
NOTE: POST SHALL BE SAW CUT AFTER GALVANIZING AND THE CUT SURFACE TREATED. AFTER PLATE IS INSTALLED AND ALL BOLTS FULLY TIGHTENED. REPAIR OF CUT SURFACES AFTER GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A123.

STANDARD SIGNS GUIDE SIGNS

FUSE PLATE DETAILS



SHIM DETAIL



STIFFENER PLATE DETAIL

GENERAL NOTES

TIGHTEN THE HIGH STRENGTH BOLTS IN THE BASE CONNECTION ONLY TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.

BASE PLATES AND STIFFENER PLATES SHALL BE OF THE SAME MATERIAL AS THE PRIMARY SUPPORT POSTS WHICH THEY ARE WELDED.

REFER TO THE PLANS FOR FOOTING DIMENSIONS.

EACH STUB POST AND SIGN POST SHALL HAVE A PERMANENT IDENTIFYING STAMP WHICH SPECIFIES THE STEEL SECTION USED. IF THE CONTRACTOR ELECTS TO SHIP THE STUB POST SEPARATE FROM THE SIGN POST A MATCH MARK SYSTEM WILL BE REQUIRED.

FOOTING QUANTITIES

FOOTINIG DEPTH	NUMBER TIE BARS REQ'D	18" DIAMETER CLASS S CONCRETE	18" DIAMETER REINF STEEL	24" DIAMETER CLASS S CONCRETE	24" DIAMETER REINF STEEL	30" DIAMETER CLASS S CONCRETE	30" DIAMETER REINF STEEL	36" DIAMETER CLASS S CONCRETE	36" DIAMETER REINF STEEL
FEET		CU. YD.	(GRADE 60)	CU. YD.	(GRADE 60)	CU. YD.	(GRADE 60)	CU. YD.	(GRADE 60)
2.50	4	0.16	31						
3.00	4	0.20	37						
3.50	5	0.23	44						
4.00	6	0.26	52	0.47	56				
4.50	6	0.29	58	0.52	62				
5.00	7	0.33	66	0.58	70	0.91	74		
5.50	8			0.64	78	1.00	83		
6.00	8			0.70	84	1.09	89	1.57	93
6.50	9					1.18	98	1.70	103
7.00	10					1.27	106	1.83	112
7.50	10							1.96	118
8.00	11							2.09	128

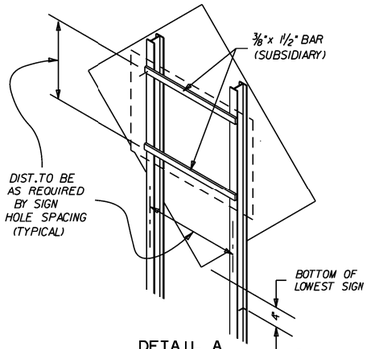
SIGN POST AND STUB POST

DATE	REVISION	FILMED
5-19-22	REVISED FUSE PLATE DETIALS' NOTE.	
9-12-13	ISSUED	

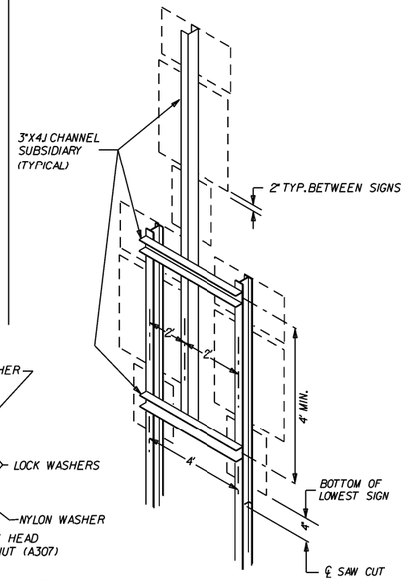
ARKANSAS STATE HIGHWAY COMMISSION

DETAIL OF BREAKAWAY SIGN SUPPORTS FOR GUIDE SIGNS

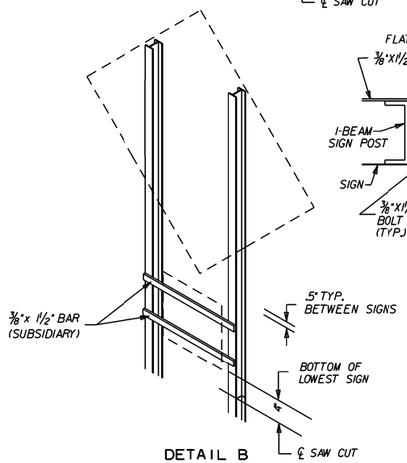
STANDARD DRAWING SHS-3



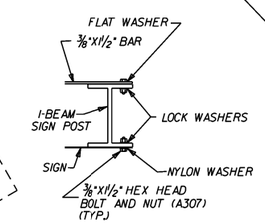
DETAIL A



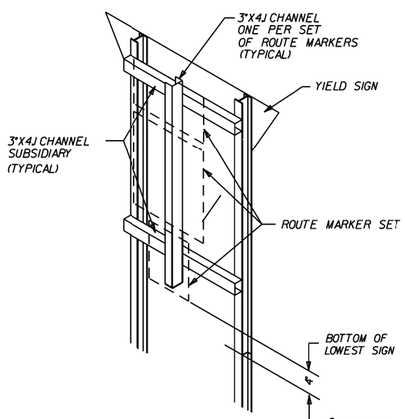
DETAIL D



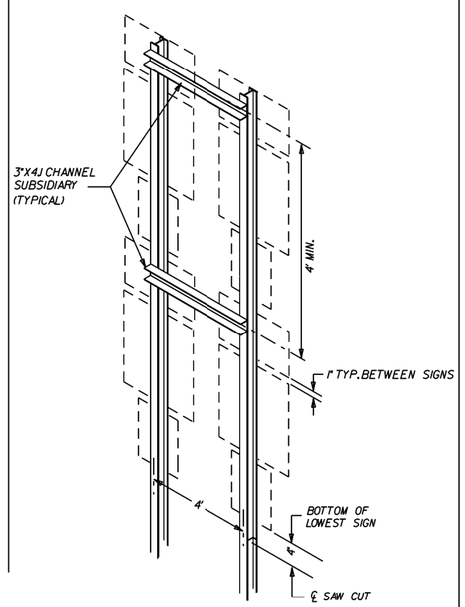
DETAIL B



DETAIL F



DETAIL C



DETAIL E

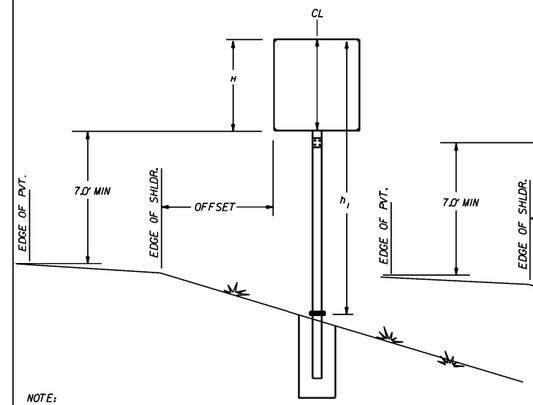
NOTE

ALL ADDITIONAL MOUNTING HARDWARE, BOLTS, NUTS, CHANNELS AND BAR STRAPS REQUIRED TO MOUNT SECONDARY SIGNS WILL BE CONSIDERED TO BE SUPPLEMENTAL TO THE MAIN SIGN SUPPORT SPECIFIED. PAYMENT WILL BE CONSIDERED SUBSIDIARY TO THE MAIN SUPPORT.

THE GALVANIZED STEEL CHANNEL AND BAR SUPPORTS MAY BE ASTM A-36.

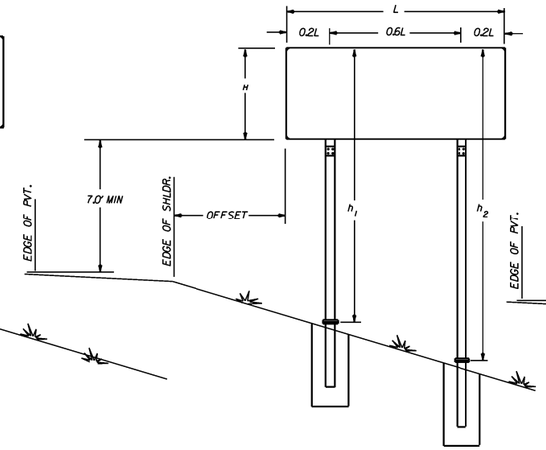
REFER TO THE P.C. RUTLEDGE FORMULA ON PAGE 58 OF THE AASHTO PUBLICATION "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

ALL BOLT HOLES SHALL BE 1/8" DIA. UNLESS OTHERWISE SHOWN.

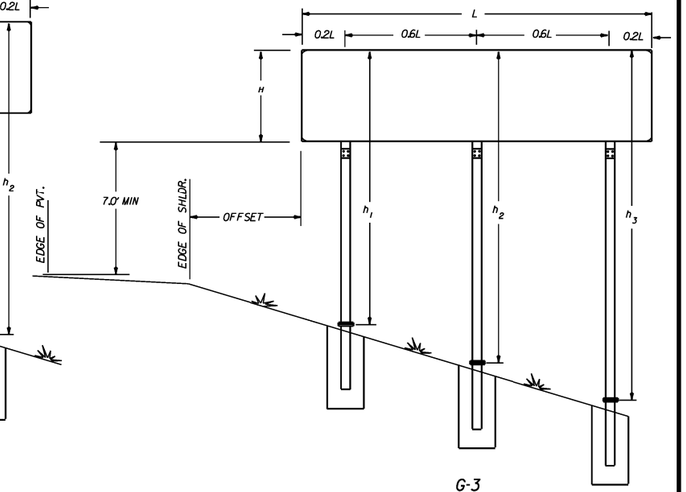


NOTE:
THE OFFSET WILL BE A MINIMUM OF 10' FROM THE EDGE OF PAVED SURFACE OR AS DIRECTED BY THE ENGINEER.

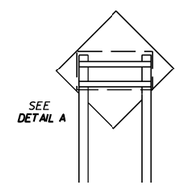
G-1



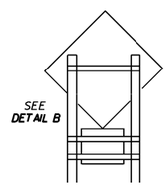
G-2



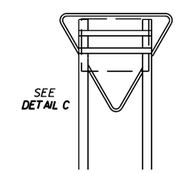
G-3



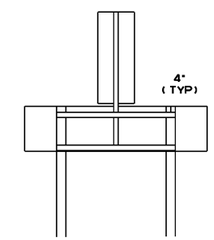
G2-1



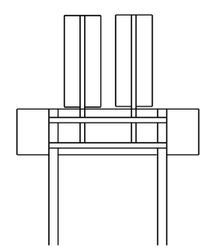
G2-2



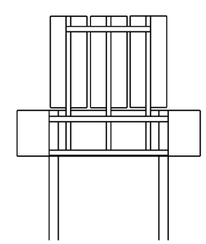
G2-3



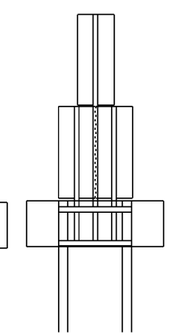
G2-4



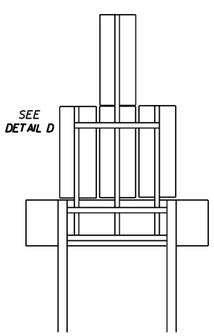
G2-5



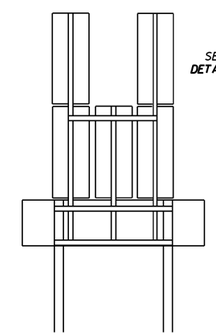
G2-6



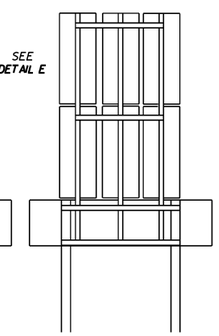
G2-7



G2-8



G2-9



G2-10

DATE	REVISION	FILMED
9-12-13	ISSUED	

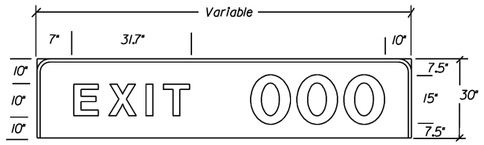
ARKANSAS STATE HIGHWAY COMMISSION

DETAIL OF BREAKAWAY SIGN SUPPORTS FOR STANDARD SIGNS

STANDARD DRAWING SHS-4

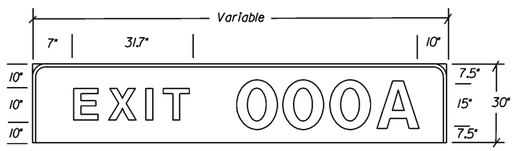
TYPICAL DETAIL

TYPE A



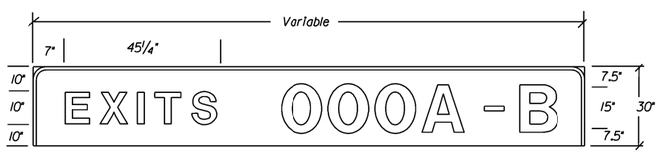
EXIT WITH 1 DIGIT 84"X30"=17.50 SF
EXIT WITH 2 DIGITS 96"X30"=20.0 SF
EXIT WITH 3 DIGITS 114"X30"=23.57 SF

TYPE B



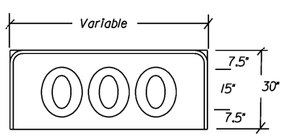
EXIT WITH 1 DIGIT PLUS "A"OR"B" 96"X30"=20.0 SF
EXIT WITH 2 DIGITS PLUS "A"OR"B" 114"X30"=23.57 SF
EXIT WITH 3 DIGITS PLUS "A"OR"B" 126"X30"=26.25 SF

TYPE C



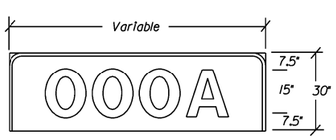
EXITS WITH 1 DIGIT PLUS "A"&"B" 132"X30"=27.50 SF
EXITS WITH 2 DIGITS PLUS "A"&"B" 150"X30"=31.25 SF
EXITS WITH 3 DIGITS PLUS "A"&"B" 168"X30"=35.00 SF

TYPE D



1 DIGIT 24"X30"=5.0 SF
2 DIGITS 42"X30"=8.75 SF
3 DIGITS 60"X30"=12.50 SF

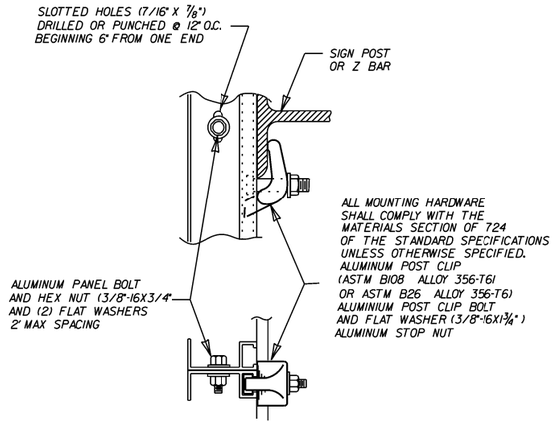
TYPE E

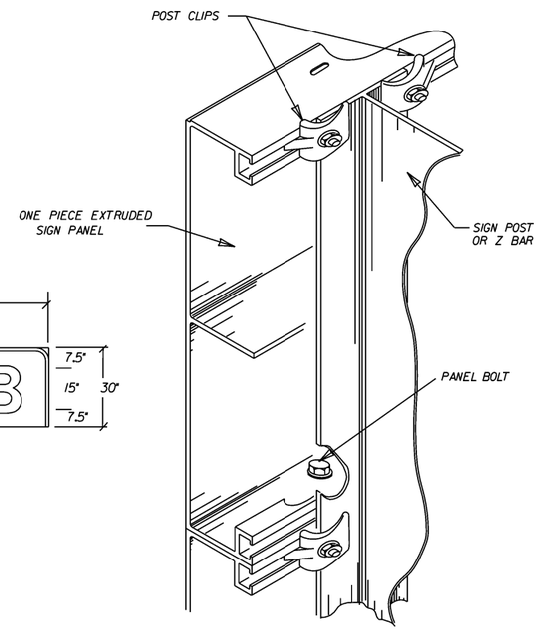


1 DIGIT PLUS "A"OR"B" 42"X30"=8.75 SF
2 DIGITS PLUS "A"OR"B" 60"X30"=12.50 SF
3 DIGITS PLUS "A"OR"B" 78"X30"=16.25 SF

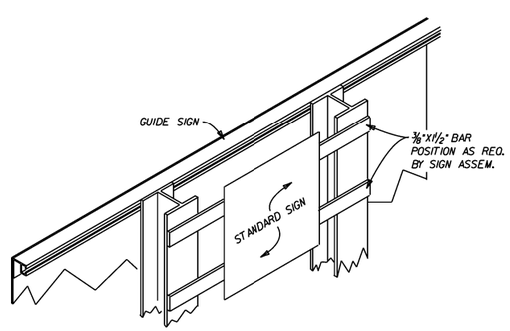
EXIT PANEL DETAILS

NOTE: EXIT NUMBER PANELS SHALL HAVE WHITE LEGENDS AND BORDERS. THE BACK GROUND COLOR WILL BE AS USE SPECIFIES. SHEETING TYPE WILL BE THE SAME AS THE GUIDE SIGN WHICH THE EXIT PANEL IS ATTACHED OR AS SPECIFIED IN THE PLANS. PAYMENT FOR ALL POST CLIPS, BOLTS, AND ANGLES SHALL BE SUBSIDIARY TO THE ITEM "EXIT NUMBER PANEL".

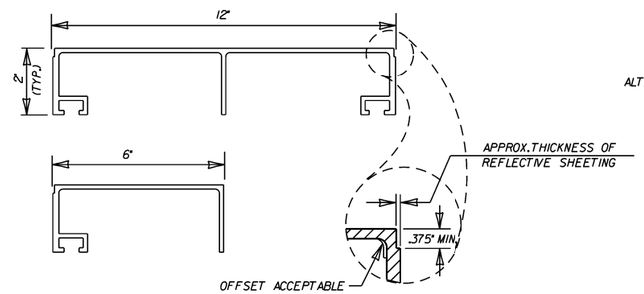




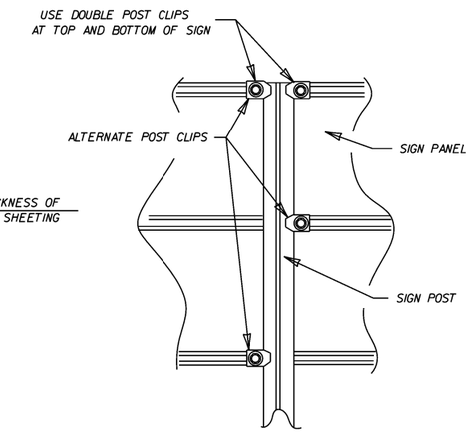
MOUNTING HARDWARE



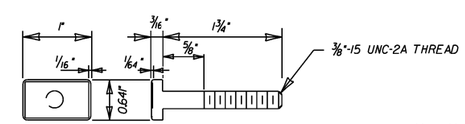
SECONDARY SIGN INSTALLATION ON BACKSIDE OF GUIDE SIGN



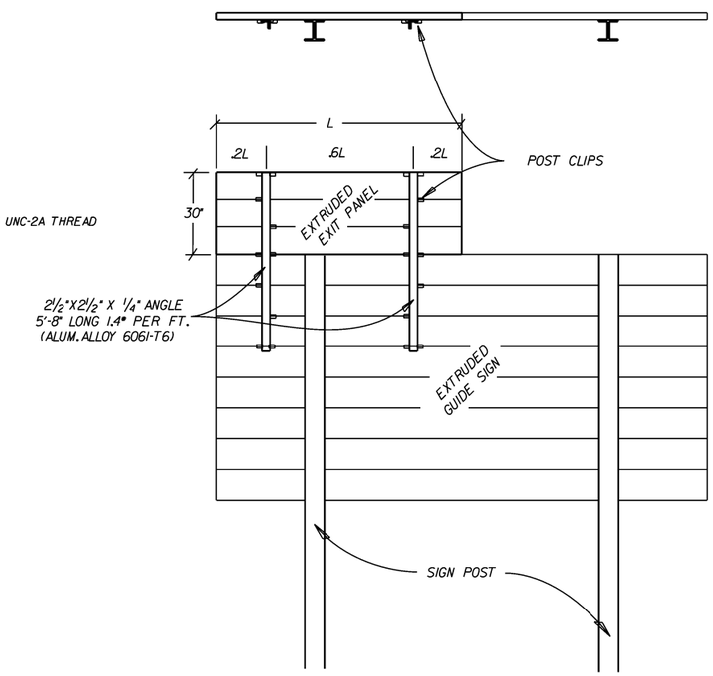
ONE PIECE EXTRUDED SIGN PANELS



POST CLIP PLACEMENT



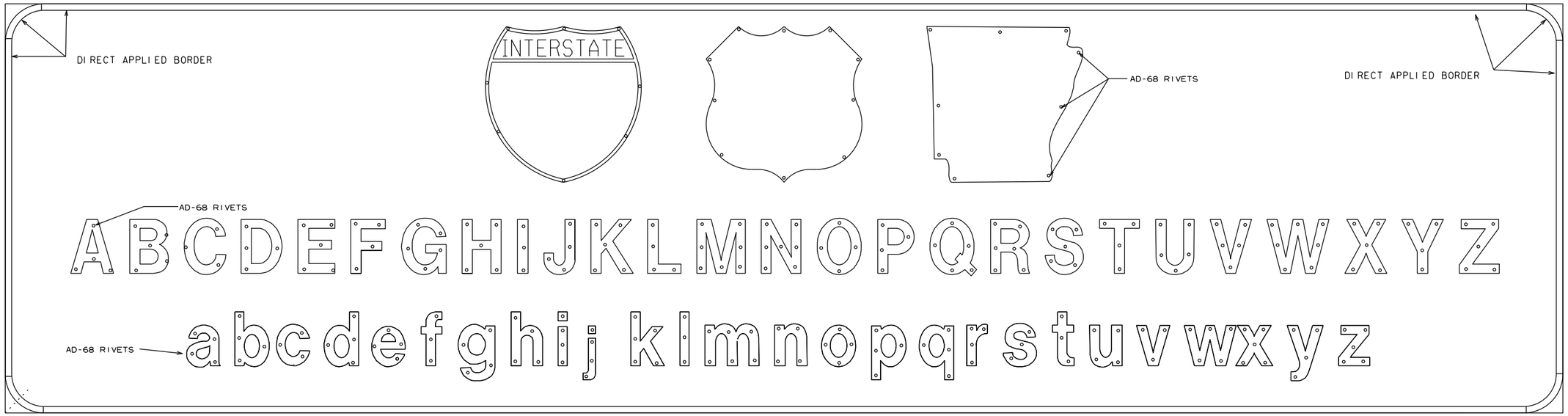
POST CLIP BOLT

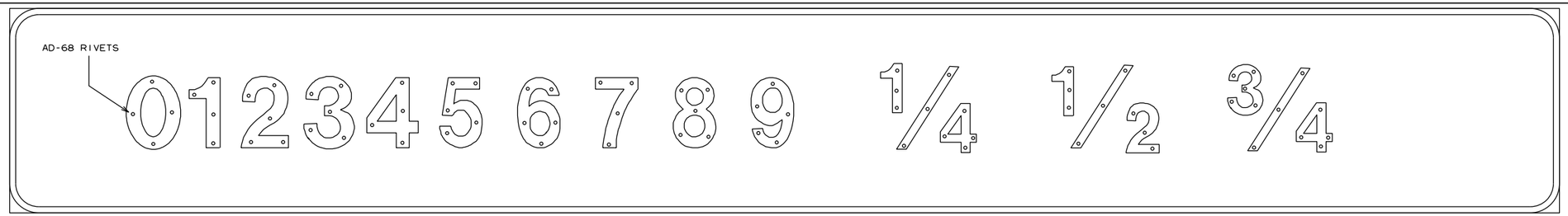


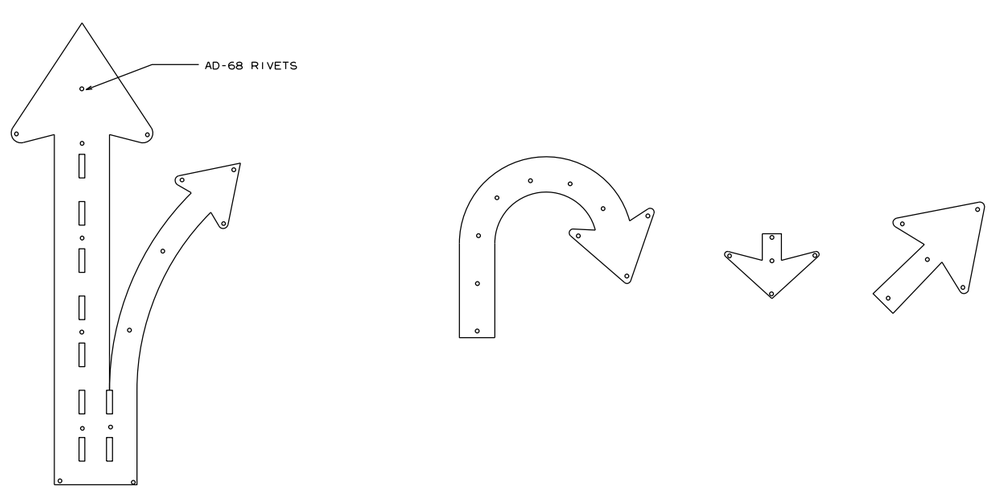
			ARKANSAS STATE HIGHWAY COMMISSION
			DETAILS OF GUIDE SIGN PANELS
9-12-13	ISSUED		STANDARD DRAWING SHS-5
DATE	REVISION	FILMED	

THE CONTRACTOR SHALL DRILL AND POP-RIVET LEGEND, SHIELDS, ARROWS, OR OTHER COPY AS SHOWN.

MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS







NOTES:

LEGEND ON GUIDE SIGNS ON THE MAIN LANES SHALL BE DEMOUNTABLE LEGEND. LEGEND ON GUIDE SIGNS ON CROSS ROADS AND RAMPS SHALL BE DIRECT APPLIED. THE DEMOUNTABLE AND DIRECT APPLIED LEGENDS SHALL BE TYPE IX SHEETING.

THE BACKGROUND ON ALL GUIDE SIGNS AND STANDARD SIGNS SHALL BE CONSTRUCTED USING TYPE III SHEETING.

TYPE IX SHEETING FOR BORDER, LEGEND, SHIELDS, ARROWS, OR OTHER COPY SHALL BE ORIENTED VERTICALLY AS PER MANUFACTURERS' DATUM MARKS, ORIENTATION MARKS, OR OTHER RECOMMENDATIONS.

SIGN LEGEND, SHIELDS, ARROWS OR OTHER COPY SHALL BE APPLIED WITH RIVETS ONLY.

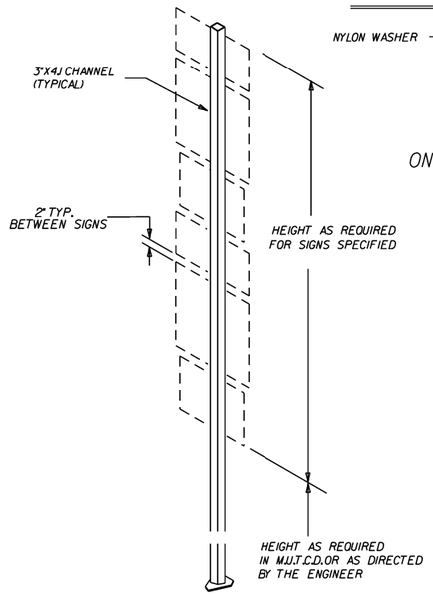
NO OTHER METHOD OF APPLYING CHARACTERS IS ALLOWED.

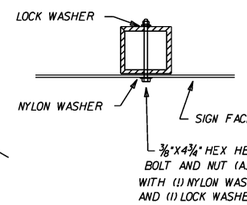
DATE	REVISION	FILMED
9-12-13	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

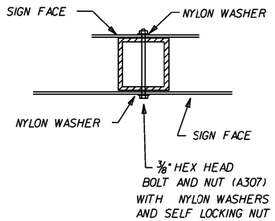
MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS

STANDARD DRAWING SHS-6





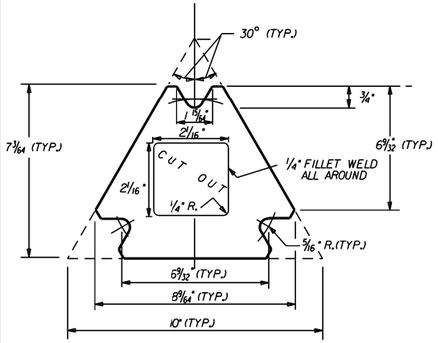
ONE SIGN



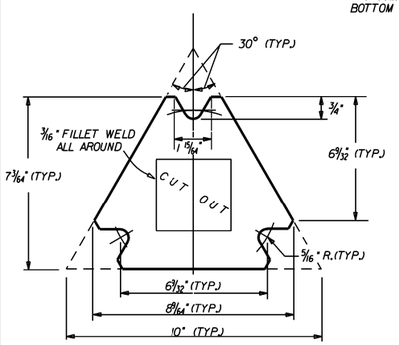
TWO SIGNS

CHANNEL SHALL BE FULL LENGTH OF RECTANGULAR AND SQUARE SIGNS AND SHALL EXTEND 1 1/2" BEYOND BOLT HOLES ON DIAMOND OR IRREGULAR SHAPED SIGNS.

MOUNTING HARDWARE



TOP PLATE



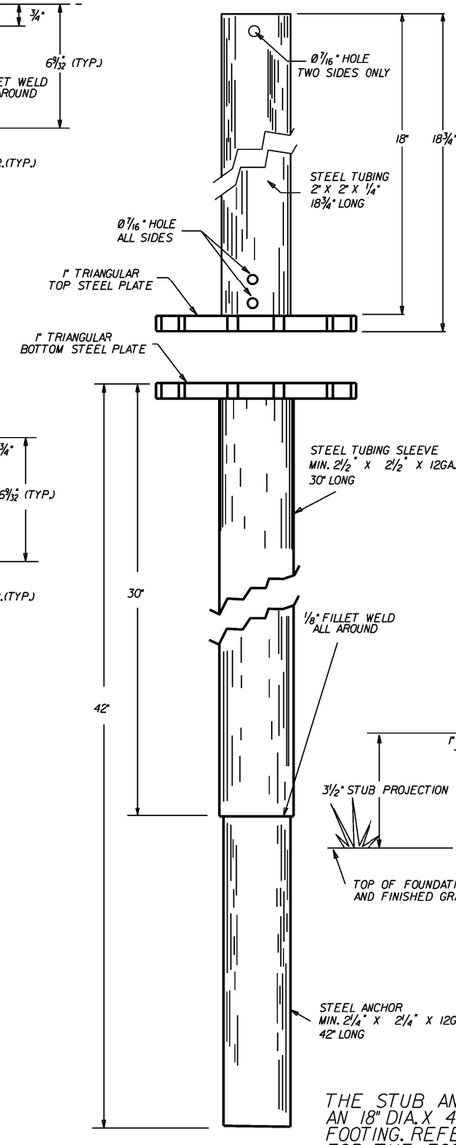
BOTTOM PLATE

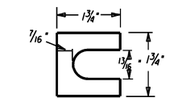
GENERAL NOTES:

THE TOP PLATE OF TRIANGULAR SLIP BASES SHALL HAVE THE SAME EXTERIOR DIMENSIONS AS THE BOTTOM PLATE.

INSIDE DIAMETER OF THE SIGN POST SHALL BE CUT THROUGH THE CENTER OF THE TOP PLATE WITH THE HOLE EDGE BEVELED AS SHOWN. THE BEVEL END SHALL BE TANGENT TO THE BOLT HOLE. ANY MISALIGNMENT SHALL BE REMOVED BY GRINDING. FACE OF BEVEL SHALL BE FINISHED TO A MINIMUM SMOOTHNESS OF 1-500.

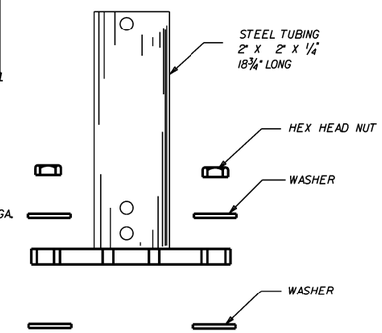
OTHER MASH COMPLIANT BREAKAWAY SIGN SUPPORTS THAT HAVE THE SAME TOP PLATE DIMENSIONS AND SUPPORT 2 1/4" X 2 1/4" SQUARE TUBE SIGN POSTS MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.

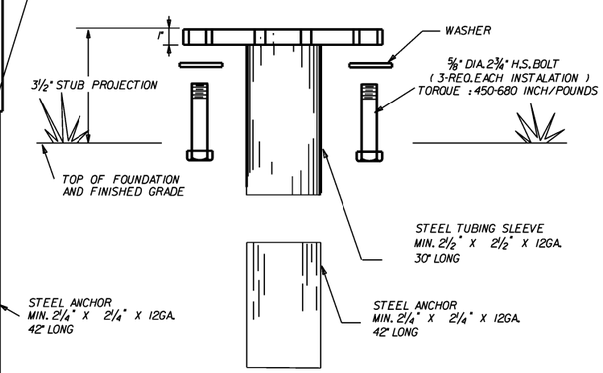




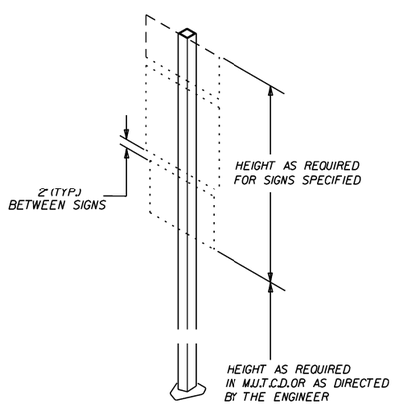
FURNISH (2) .012" THICK AND (2) .032" THICK SHIMS PER POST

SHIM DETAIL



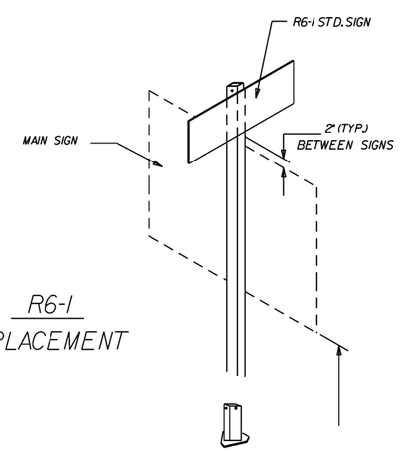


THE STUB ANCHOR SHALL BE SET IN AN 18" DIA. X 42" DEEP CONCRETE FOOTING. REFER TO STD. DRWG. SHS-3 FOR THE FOOTING DETAILS.



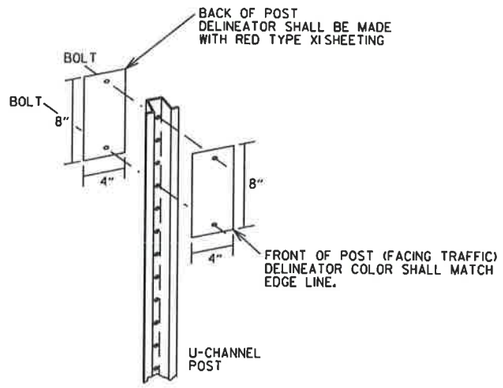
TYPE-1

BASIS OF ESTIMATE
APPROX. 100 lbs STEEL

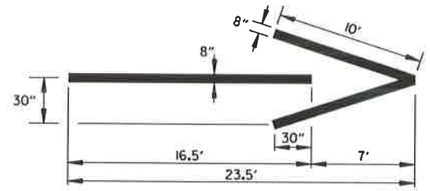


R6-1
PLACEMENT

			ARKANSAS STATE HIGHWAY COMMISSION
			DETAIL OF OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS
9-12-13	ISSUED		STANDARD DRAWING SHS-7
DATE	REVISION	FILMED	



TYPE 2 DELINEATOR DETAILS



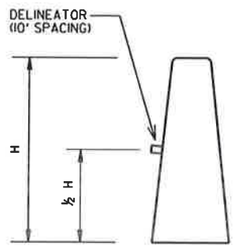
THERMOPLASTIC WRONG-WAY
PAVEMENT ARROWS

NOTE: THERMOPLASTIC WRONG-WAY PAVEMENT ARROWS TO BE PAID FOR AS THERMOPLASTIC PAVEMENT MARKING (ARROWS).

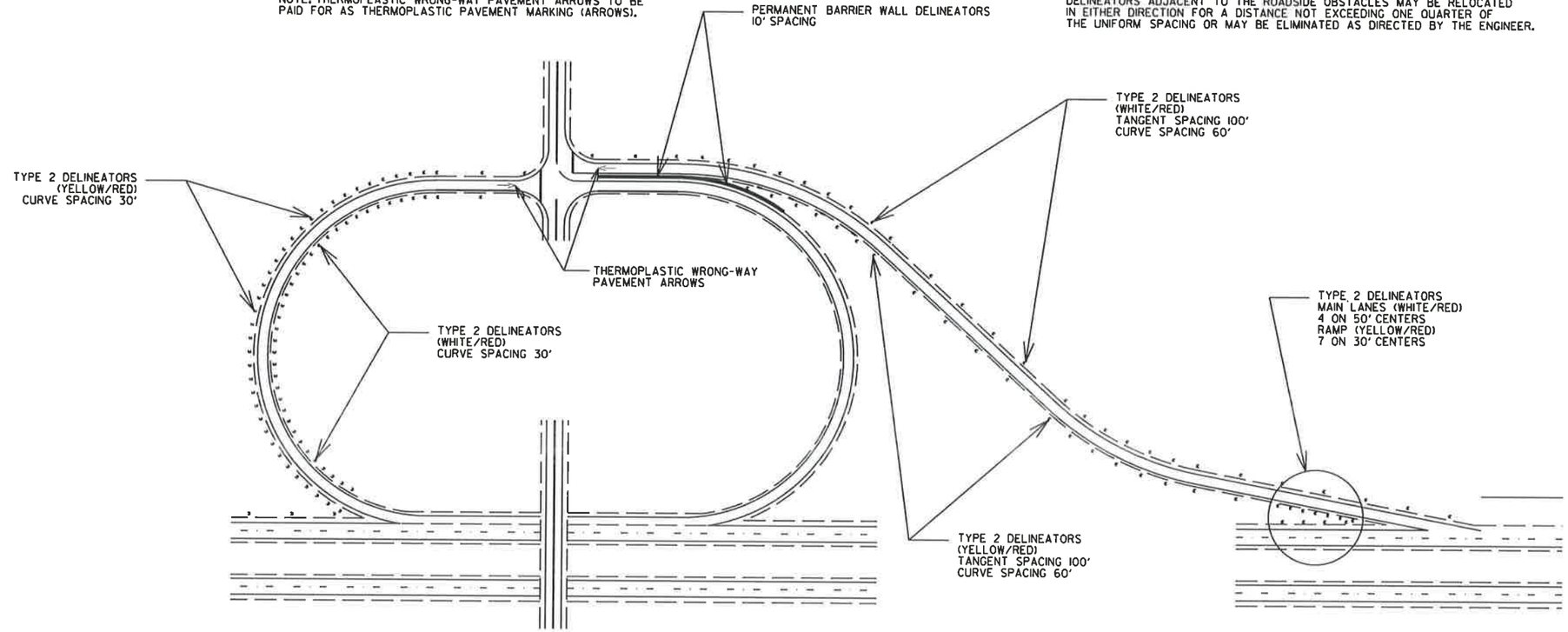
LEGEND

DELINEATOR

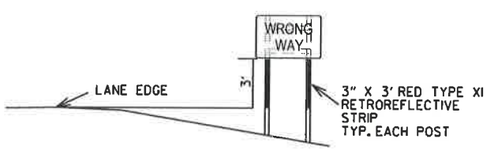
NOTE: WHEN UNIFORM SPACING IS INTERRUPTED BY ROADSIDE OBSTACLES, DELINEATORS ADJACENT TO THE ROADSIDE OBSTACLES MAY BE RELOCATED IN EITHER DIRECTION FOR A DISTANCE NOT EXCEEDING ONE QUARTER OF THE UNIFORM SPACING OR MAY BE ELIMINATED AS DIRECTED BY THE ENGINEER.



PERMANENT BARRIER WALL
DELINEATOR DETAIL

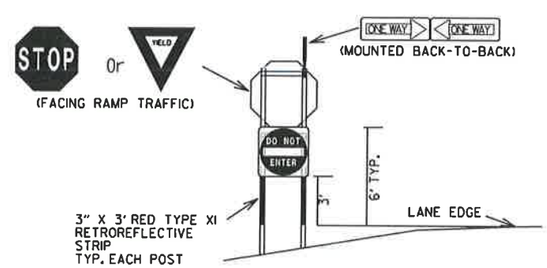


TYPICAL EXIT RAMP DELINEATOR PLACEMENT



WRONG-WAY SIGN ASSEMBLY DETAILS

NOTES
1. WRONG-WAY SIGNS MAY BE MOUNTED ON THE BACK SIDE OF EXISTING SIGN SUPPORTS WHERE POSSIBLE.
2. WRONG-WAY SIGNS ARE NORMALLY GATED, BUT MAY BE OFFSET WHEN BARRIER WALLS ARE PRESENT ON THE INSIDE SHOULDER. IN SUCH CASES, THE SIGN ON THE INSIDE SHOULDER SIDE MAY BE LOCATED PAST THE END OF THE BARRIER WALL. IN RARE CASES WHERE THE BARRIER WALL EXTENDS TO OR NEAR THE MAIN LANES, BOTH SIGNS MAY BE LOCATED ON THE OUTSIDE SHOULDER SIDE OF THE RAMP, WITH APPROXIMATELY 300' SPACING BETWEEN THE SIGNS.



RAMP INTERSECTION SIGN ASSEMBLY DETAILS

THE DELINEATORS SHALL BE PLACED AT A 4' HEIGHT MEASURED FROM THE PAVEMENT EDGE TO THE BOTTOM OF THE DELINEATOR. DELINEATOR POSTS SHALL BE PLACED 2 TO 8 FT. OUTSIDE THE OUTER EDGE OF THE SHOULDER, OR IF APPROPRIATE, IN LINE WITH THE ROADSIDE BARRIER THAT IS 8 FT. OR LESS OUTSIDE THE OUTER EDGE OF THE SHOULDER.

DELINEATOR SPACING IN CURVES SHALL BE REDUCED TO 30' WHEN THE RAMP ADVISORY SPEED IS 30 MPH OR LESS.

IF MULTIPLE LANES EXIST AT THE RAMP TERMINAL, THE THERMOPLASTIC WRONG-WAY ARROW SHALL BE PLACED AS CLOSE TO THE RAMP TERMINAL TURNOUT AS POSSIBLE.

DATE	REVISION	FILMED
11-16-17	ADDED NOTES	
06-01-17	RE-DRAWN	
09-12-13	ISSUED AS STANDARD DRAWING	

ARKANSAS STATE HIGHWAY COMMISSION

TYPICAL EXIT RAMP SIGN AND DELINEATOR DETAILS

STANDARD DRAWING SHS-8

R1-1 STOP STANDARD 30"X30" EXPRESSWAY 36"X36" SPECIAL 48"X48"	R1-2 YIELD STD. 36"X36"X36" EXPWY. 48"X48"X48" FWY. 60"X60"X60"	R2-1 SPEED LIMIT 50 STD. 24"X30" EXPWY. 36"X48" FWY. 48"X60"	W3-5 SPEED LIMIT XX STD. 36"X36" EXPWY. 48"X48" FWY. 48"X48"	W3-5a XX MPH SPEED ZONE AHEAD STD. 36"X36" EXPWY. 48"X48" FWY. 48"X48"	R4-1 DO NOT PASS STD. 24"X30" EXPWY. 36"X48" FWY. 48"X60"	R4-2 PASS WITH CARE STD. 24"X30" EXPWY. 36"X48" FWY. 48"X60"	R2-6aP FINES DOUBLE* WHEN WORKERS ARE PRESENT** 48"X36" * USE 6" C LETTERS ** USE 4" D LETTERS
R5-1 DO NOT ENTER STD. 30"X30" EXPWY. 36"X36" SPECIAL 48"X48"	R11-2 ROAD CLOSED 48"X30"	R11-3A ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY 60"X30"	R11-4 ROAD CLOSED TO THRU TRAFFIC 60"X30"	W21-5a RIGHT SHOULDER CLOSED STD. 36"X36" FWY. 48"X48"	W1-1 STD. 36"X36" FWY. 48"X48"	W1-2 STD. 36"X36" FWY. 48"X48"	R2-11 END HIGHER FINES ZONE 36"X48"
W1-3 STD. 48"X48"	W1-4 STD. 48"X48"	W1-6 STD. 48"X24" SPECIAL 60"X30"	W1-8 STD. 18"X24" SPECIAL 24"X30" EXPWY. 30"X36" FWY. 36"X48"	W3-1 STD. 36"X36" SPECIAL 48"X48"	W3-2 STD. 36"X36" SPECIAL 48"X48"	W4-2 STD. 36"X36" FWY. 48"X48"	R56-1 CONTROLLED ACCESS HWY. NO EXIT STD. 18"X18"
W5-1 ROAD NARROWS STD. 36"X36" SPECIAL 48"X48"	W6-3 EXPWY. 36"X36" SPECIAL 48"X48"	W8-7 LOOSE GRAVEL EXPWY. 36"X36" FWY. 48"X48"	W9-2 LANE ENDS MERGE RIGHT STD. 36"X36" FWY. 48"X48"	W13-1 XX M.P.H. STD. 24"X24"	W20-1 ROAD WORK XXXX STD. 48"X48"	W20-2 DETOUR XXXX STD. 48"X48"	W20-3 ROAD CLOSED XXXX STD. 48"X48"
W20-4 ONE LANE ROAD XXXX STD. 48"X48"	W20-5 RIGHT LANE CLOSED XXXX STD. 48"X48"	W20-7a 18" 500 FEET W16-2 24" STD. 36"X36" FWY. 48"X48"	W21-2 FRESH OIL STD. 30"X30" SPECIAL 36"X36"	W21-5 SHOULDER WORK STD. 30"X30" SPECIAL 36"X36"	W24-1 STD. 36"X36"	W1-4b STD. 48"X48"	
W8-11 UNEVEN LANES STD. 36"X36" FWY. 48"X48"	W8-9 LOW SHOULDER STD. 36"X36" FWY. 48"X48"	G20-1 ROAD WORK NEXT XX MILES 60"X24"	G20-2 END ROAD WORK 48"X24"	OM-3L OM-3R YELLOW BLACK 12"X36"	M4-9 DETOUR STD. 30"X24" SPECIAL 48"X36" SPECIAL 60"X48"	M4-10 DETOUR 48"X18"	

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.
3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.
4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE.
5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.
6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.
7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.
8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.
10. R2-6aP PLAQUES SHALL BE MOUNTED BELOW AN APPLICABLE ADVANCE WARNING SIGN THAT IS LOCATED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE PLAQUE SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE W3-5 "REDUCED SPEED AHEAD" SIGN. R2-11 SIGNS SHALL BE INSTALLED AT OR NEAR THE DOWNSTREAM END OF THE WORK ZONE. SEE STANDARD DRAWINGS TC-2, TC-3, AND TC-6 FOR TYPICAL PLACEMENT LOCATIONS.

* NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

DATE	REV	DESCRIPTION
08-14-25		REPLACED R55-1 WITH R2-6aP, ADDED R2-11 & REVISED NOTE 10
11-07-19		REVISED FOR MASH
04-13-17		DELETED RSP-1 & ADDED W21-5a
09-02-15		REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES
12-15-11		REVISED W24-1

ARDOT ARKANSAS DEPARTMENT OF TRANSPORTATION

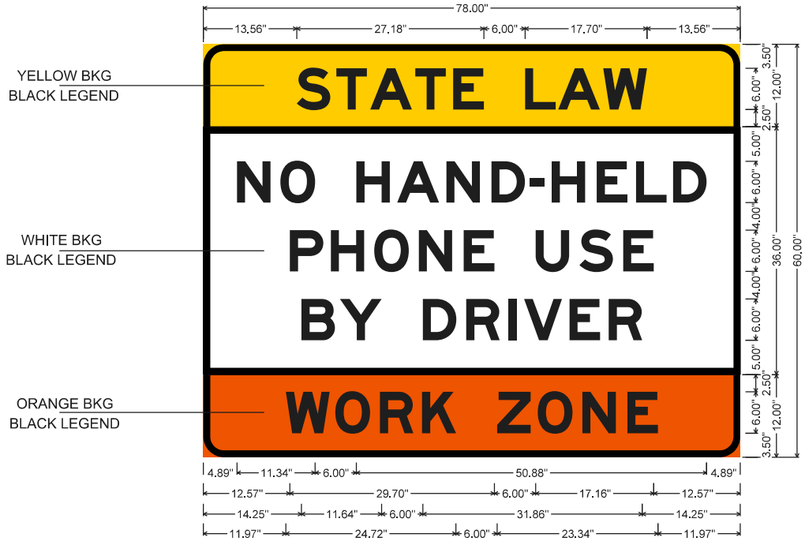
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

DATE EFFECTIVE 08-14-2025

STANDARD DRAWING

TC-1

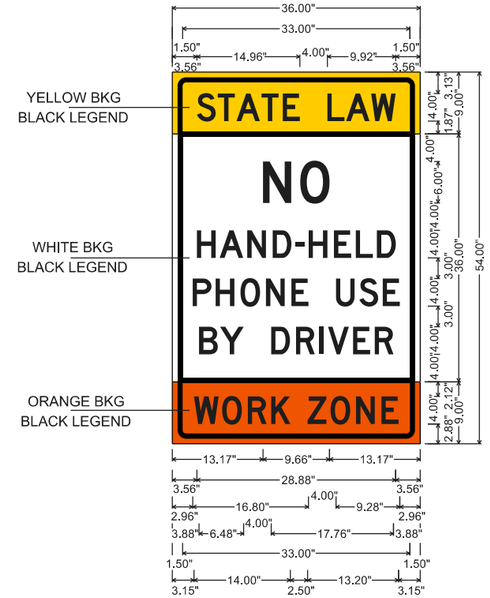


3.0" Radius, 1.0" Border, Black on Yellow;
"STATE LAW", E Mod 2K;

3.0" Radius, 1.0" Border, Black on White;
"NO HAND-HELD", E Mod 2K; "PHONE USE", E Mod 2K; "BY DRIVER", E Mod 2K;

3.0" Radius, 1.0" Border, Black on Orange;
"WORK ZONE", E Mod 2K;

WZ-4 (INTERSTATE) SIGN

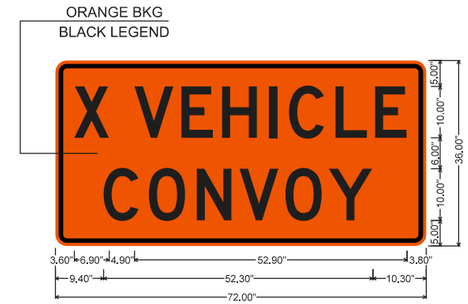


2.00" Radius, 0.75" Border, 0.75" Indent, Black on Yellow;
"STATE LAW", D 2K;

3.00" Radius, 0.75" Border, 0.75" Indent, Black on White;
"NO", D 2K; "HAND-HELD", D 2K;
"PHONE USE", D 2K;
"BY DRIVER", D 2K;

2.00" Radius, 0.75" Border, 0.75" Indent, Black on Orange;
"WORK", D 2K; "ZONE", D 2K;

WZ-4 (NON-INTERSTATE) SIGN

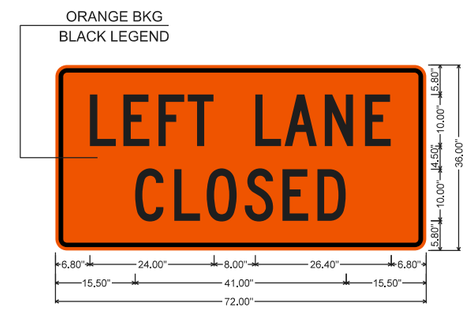


2.3" Radius, 0.9" Border, 0.6" Indent, Black on Orange;
"X", D; "VEHICLE", D; "CONVOY", D;

WZ-2 SIGN

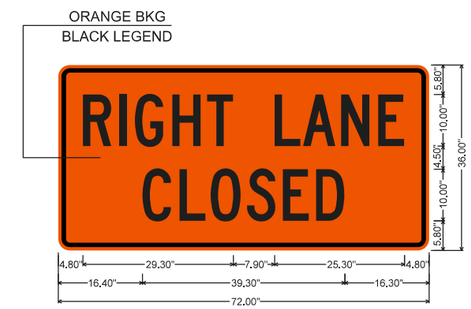
2.3" Radius, 0.9" Border, 0.6" Indent, Black on Orange;
"WORK", D; "CONVOY", D;

WZ-3 SIGN



2.3" Radius, 0.9" Border, 0.6" Indent, Black on Orange;
"LEFT LANE", C; "CLOSED", C;

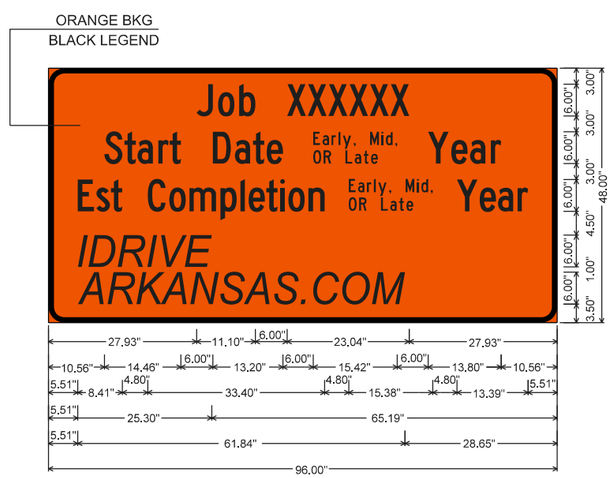
WZ-W20-5L SIGN



2.3" Radius, 0.9" Border, 0.6" Indent, Black on Orange;
"RIGHT", C specified length; "LANE", C specified length;
"CLOSED", C specified length;

WZ-W20-5R SIGN

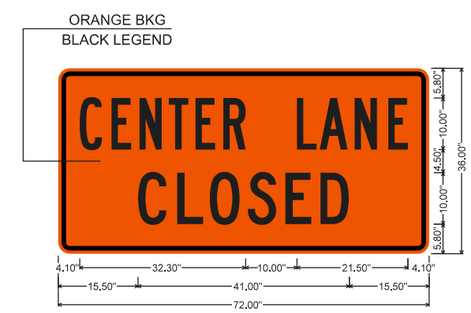
NOTE: REFER TO STANDARD DRAWING TC-1 FOR GENERAL NOTES.



3.0" Radius, 1.0" Border, Black on Orange;
"Job XXXXXX" C 2K; "Start Date Xxxx Year" C 2K;
"Est Completion Xxxx Year" C 2K 80% spacing;
"IDRIVE" Arial, Italic; "ARKANSAS.COM" Arial, Italic;

CONSTRUCTION PROJECT INFORMATION SIGN

WZ-1 (INTERSTATE) SIGN



2.3" Radius, 0.9" Border, 0.6" Indent, Black on Orange;
"CENTER LANE", B 2K; "CLOSED", C;

WZ-W20-5C SIGN

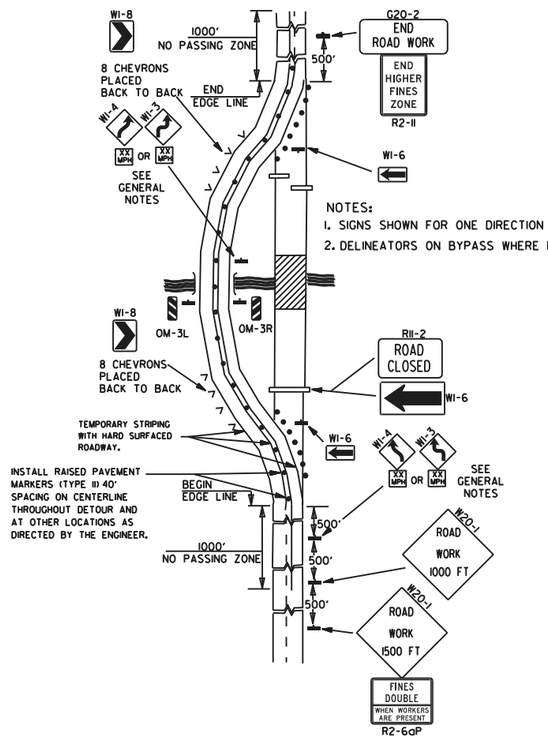
MOBILE WORK ZONE SIGNS

DATE REV	ISSUED	DESCRIPTION
	04-09-26	

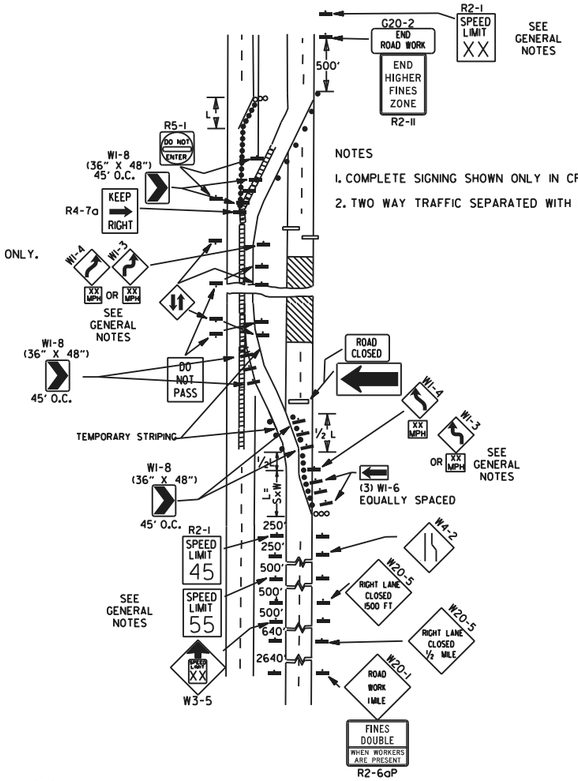
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

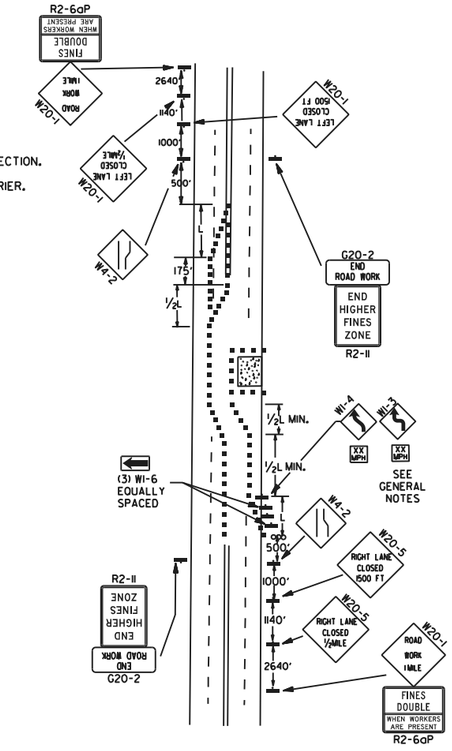
DATE EFFECTIVE	STANDARD DRAWING	TC-1A
04-09-2026		



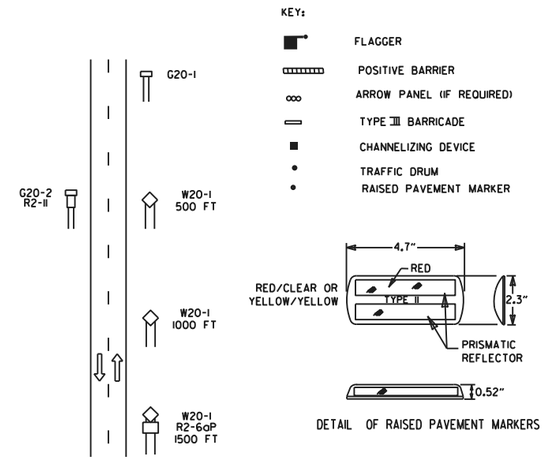
(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.



(B) TYPICAL APPLICATION - 4-LANE DIVIDED ROADWAY WHERE ONE ROADWAY IS CLOSED.



(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



TYPICAL ADVANCE WARNING SIGN PLACEMENT

TAPER FORMULAE:

L=SXW FOR SPEEDS OF 45MPH OR MORE.

$L = \frac{WS^2}{60}$ FOR SPEEDS OF 40MPH OR LESS.

WHERE:

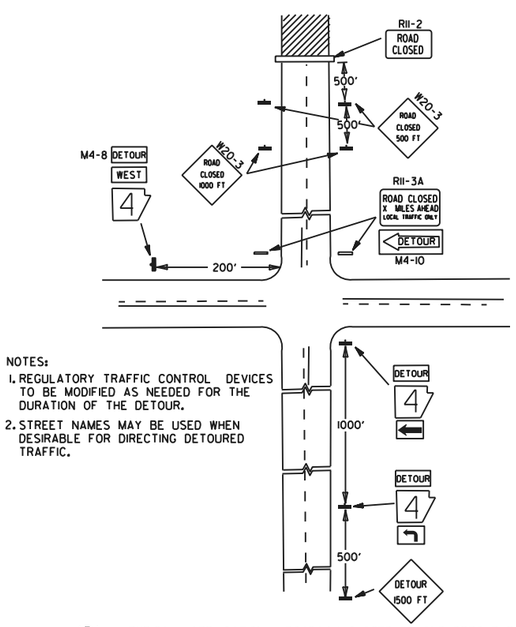
L= MINIMUM LENGTH OF TAPER.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

W= WIDTH OF OFFSET.

GENERAL NOTES:

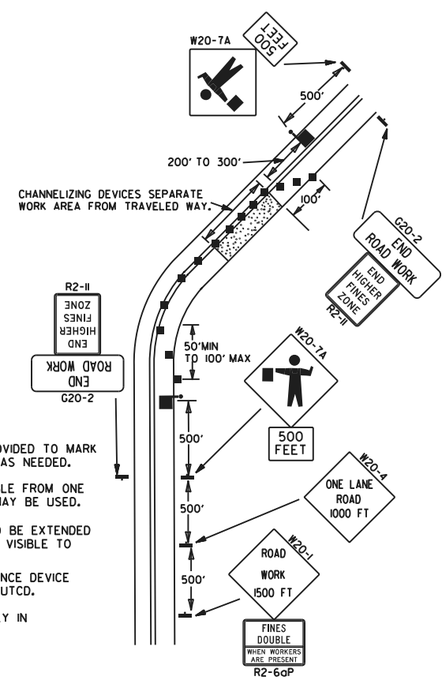
1. THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON W1-3 OR W1-4 CURVE WARNING SIGNS. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1 45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(45) SHALL BE OMITTED. ADDITIONAL R2-1 55MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
8. DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.
9. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



NOTES:

1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

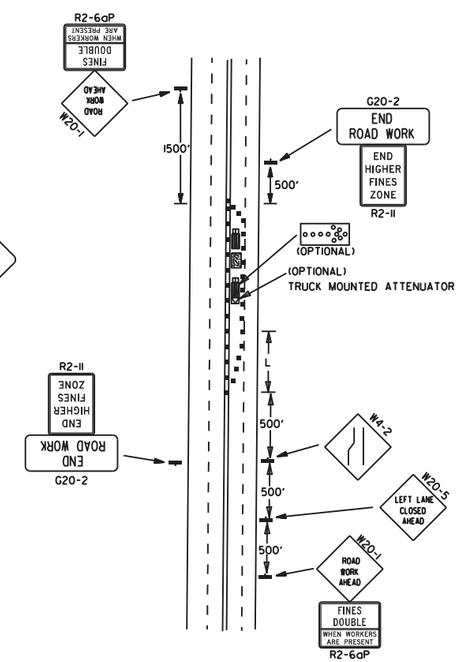
(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.



NOTES:

1. FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED.
3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
4. AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) OPTIONAL. REFER TO MUTCD.
5. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.

(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.



(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

DATE	REV	DESCRIPTION
08-14-25		ADDED R2-6aP AND R2-11
05-20-21		REVISED NOTE 7
11-07-19		REVISED NOTE 1. ADDED NOTE 9
09-02-15		REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWING (A) & REPLACED R2-5A WITH W3-5
09-12-13		REVISED DETAIL OF RAISED PAVEMENT MARKINGS

ARDOT ARKANSAS DEPARTMENT OF TRANSPORTATION

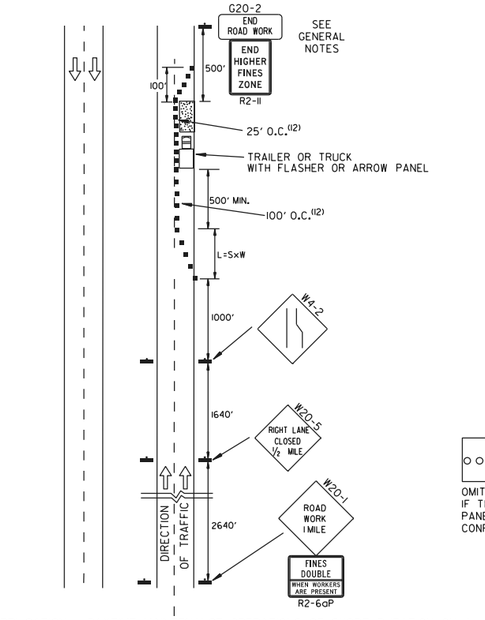
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

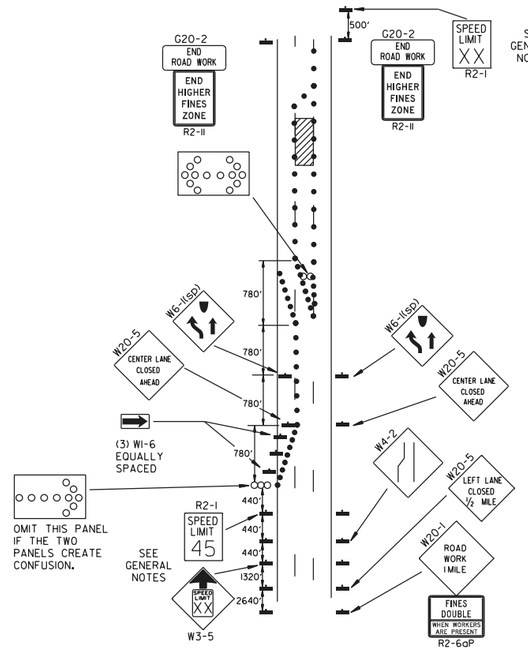
DATE EFFECTIVE 08-14-2025

STANDARD DRAWING

TC-2



(A) TYPICAL APPLICATION - DAYTIME MAINTENANCE OPERATIONS OF SHORT DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



(B) TYPICAL APPLICATION - 3-LANE ONEWAY ROADWAY WHERE CENTER LANE IS CLOSED.

KEY:

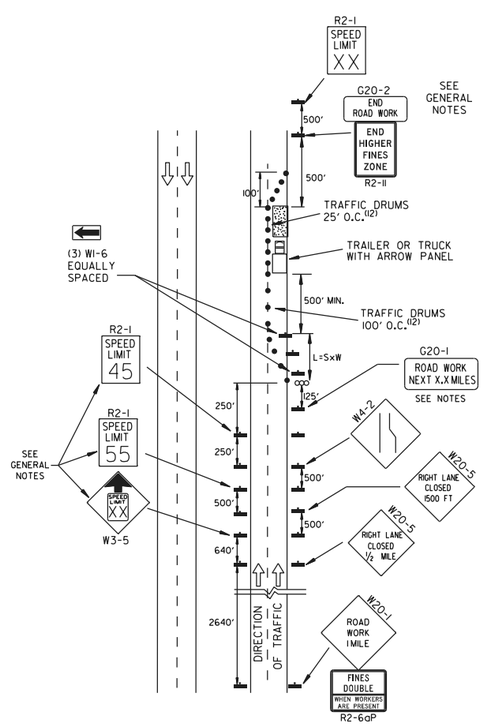
ooo ARROW PANEL (IF REQUIRED)

■ CHANNELIZING DEVICE

● TRAFFIC DRUM

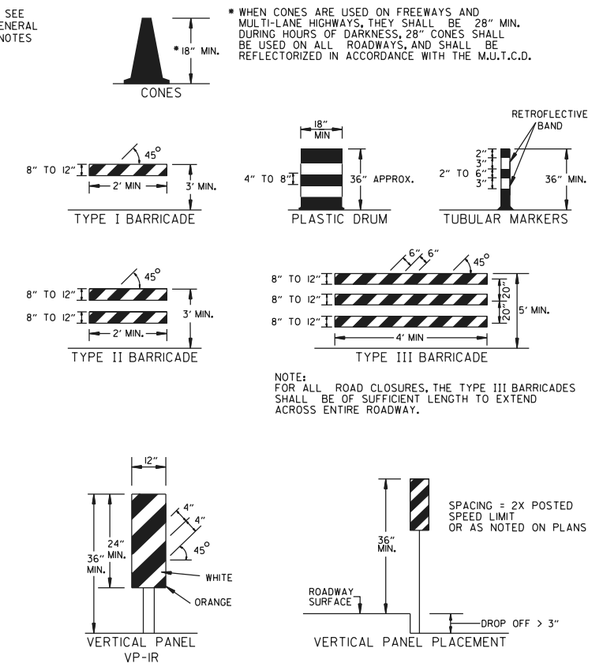
GENERAL NOTES:

1. A SPEED LIMIT REDUCTION MAY BE IMPLEMENTED ONLY WHEN DESIGNATED IN THE PLAN OR WHEN RECOMMENDED BY THE ROADWAY DESIGN DIVISION.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1 45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1 MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(45) SHALL BE OMITTED. ADDITIONAL R2-1 55MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1 MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. THE G20-1 SIGN SHOULD BE INSTALLED ON JOBS OF OVER TWO MILES IN LENGTH. WHEN THE LANE CLOSURE IS NOT AT THE BEGINNING OF THE PROJECT, THE G20-1 SIGN SHALL BE ERECTED 125' IN ADVANCE OF THE JOB LIMIT. ADDITIONAL W20-1 (1 MILE) SIGNS ARE NOT REQUIRED IN ADVANCE OF LANE CLOSURES THAT BEGIN INSIDE THE PROJECT LIMITS. THE DISTANCE DISPLAYED ON THE G20-1 SIGN SHALL BE STATED TO THE NEAREST WHOLE MILE.
8. FLAGGERS SHALL USE STOP/SLOW PADDLES FOR CONTROLLING TRAFFIC THROUGH WORK ZONES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. ALL PLASTIC DRUMS AND CONES SHALL MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
10. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
11. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
12. ONLY WHERE SPACE RESTRICTIONS DO NOT ALLOW FOR TRAFFIC DRUMS, TUBULAR MARKERS MAY BE USED AT 50' O.C. IN STABILIZATION ZONES AND AT 10' O.C. DIRECTLY ADJACENT TO CONSTRUCTION OPERATIONS AND AT EXIT TAPERS. TUBULAR MARKERS SHALL BE STABILIZED WITH WEIGHTED BASES IN ACCORDANCE WITH THE M.U.T.C.D.



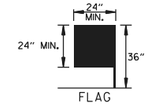
(C) TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

CHANNELIZING DEVICES

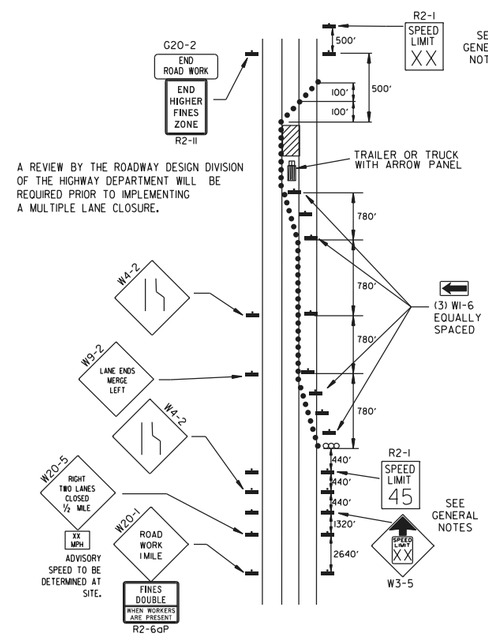


* WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.

NOTE:
FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES SHALL BE OF SUFFICIENT LENGTH TO EXTEND ACROSS ENTIRE ROADWAY.



FLAG SHALL BE OF GOOD GRADE RED MATERIAL



A REVIEW BY THE ROADWAY DESIGN DIVISION OF THE HIGHWAY DEPARTMENT WILL BE REQUIRED PRIOR TO IMPLEMENTING A MULTIPLE LANE CLOSURE.

(D) TYPICAL APPLICATION - CLOSING MULTIPLE LANES OF A MULTILANE HIGHWAY.

TRAFFIC CONTROL DEVICES

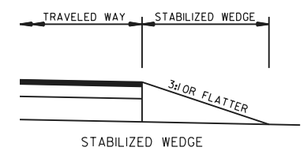
NON-INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45 MPH	> 45 MPH
≤ 1"	CENTERLINE	W8-11	W8-11
> 1" ≤ 3"	CENTERLINE	W8-11 AND CENTERLINE LANE STRIPING	W8-11 AND CENTERLINE LANE STRIPING
> 3"	CENTERLINE	STANDARD LANE CLOSURE(6)	STANDARD LANE CLOSURE(6)
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9 AND TRAFFIC DRUMS(1)	W8-9 AND TRAFFIC DRUMS(1)
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(1)	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(1)
> 6" ≤ 18"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(1)	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(2)
> 18" ≤ 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(1)	A STABILIZED WEDGE, W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(3)
> 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER(4) & EDGE LINES	PRECAST CONCRETE BARRIER(4) & EDGE LINES

INTERSTATE		
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL
≤ 3"	CENTERLINE	W8-11 AND LANE STRIPING
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND TRAFFIC DRUMS(2)
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(2)
> 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER & EDGE LINES

INTERSTATE AND NON-INTERSTATE		
FORESLOPE	HEIGHT	TRAFFIC CONTROL
1:1	> 2 FT	PRECAST CONCRETE BARRIER
2:1	≤ 5 FT	TRAFFIC DRUMS
2:1	> 5 FT	PRECAST CONCRETE BARRIER
Flatter than 2:1	N/A	TRAFFIC DRUMS

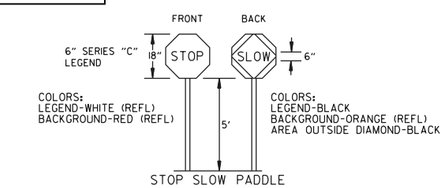
GENERAL NOTES:

1. WHEN THE SHOULDER AREA IS USED AS PART OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED.
2. WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, A STABILIZED WEDGE SHALL BE USED.
3. PRECAST CONCRETE BARRIER WALL CAN BE USED IN LIEU OF A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS, IF AND WHERE DIRECTED BY THE ENGINEER.
4. A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS CAN BE USED IN LIEU OF PRECAST CONCRETE BARRIER WALL, IF AND WHERE DIRECTED BY THE ENGINEER.
5. W21-5, W21-5a, AND/OR W21-5b SIGNS SHALL BE USED WHERE THE ROADWAY IS UNOBSTRUCTED IF AND WHERE DIRECTED BY THE ENGINEER.
6. TIME LIMITATIONS MUST CONFORM TO SECTION 603 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).



STABILIZED WEDGE

NOTE:
MATERIALS FOR THE STABILIZED WEDGE SHALL MEET THE REQUIREMENTS PROVIDED IN SECTION 603.02 OF THE STANDARD SPECIFICATIONS.

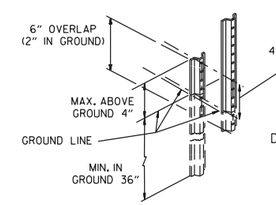


STOP SLOW PADDLE

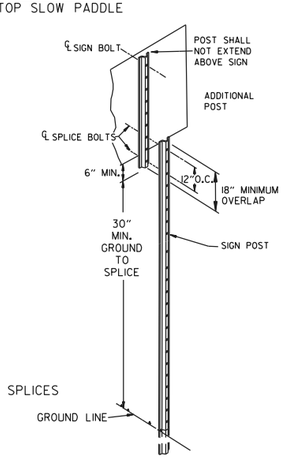
NOTES:
USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-2)

NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA. BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA. BOLTS TO ASSEMBLE THE VARIOUS POST SUPPORTS. EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS.

SIGN POSTS SHALL BE PAINTED GREEN; SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB.



DETAIL OF SPLICES



DATE	REV	DESCRIPTION
08-14-25		ADDED R2-6aP AND R2-11
05-22-25		REVISED TRAFFIC CONTROL DEVICES AND NOTES. ADDED NOTE 12
08-12-21		REVISED TRAFFIC CONTROL DEVICES AND NOTES
05-20-21		REVISED NOTE 10
02-27-20		REVISED TRAFFIC CONTROL DEVICES DETAILS

ARDOT ARKANSAS DEPARTMENT OF TRANSPORTATION

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

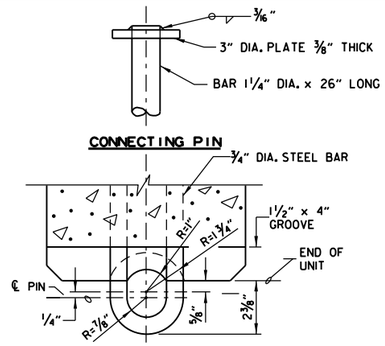
DATE EFFECTIVE 08-14-2025

STANDARD DRAWING

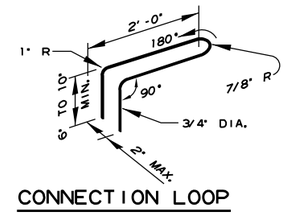
TC-3

REINFORCING BAR TABLE PER BARRIER UNIT

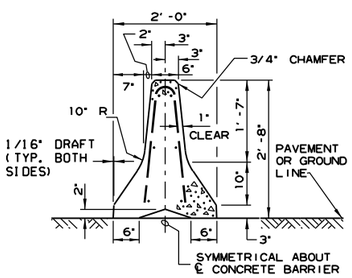
MARK	LOCATION	BAR SIZE	(NO. BARS)	SKETCH
H-1	HORIZONTAL IN BARRIER TIED INSIDE V-1 BARS	#5	(6)	19'-3"
H-2	CENTERED ABOVE DRAIN SLOTS LONG. & TRANSVERSELY	#5	(6)	6'-6"
H-3	TIED ABOVE H-1 BARS TO SUPPORT H-2, TIED TO V-1	#4	(2)	1'-6"
S-1	OVER LIFT HOLES	#4	(2)	2'-5", 90°, 3 3/8" R, LIFTING HOLE
S-2	HORIZ. AROUND SLOTS BETWEEN V-1'S @ DRAIN SLOTS	#4	(2)	1 1/2" R, SLOTS, 7", 1'-6", 1" MIN. CLEAR TO BAR; 5'-1" BAR W/(4) 1 1/2" R BENDS & MIN. 1'-0" OVERLAP
V-1	VERTICAL IN BARRIER(3) EACH END & (2) AT EACH DRAIN SLOTS	#5	(16)	TOTAL LENGTH 4'-9"; 2 3/16" R, 12°, 1 1/2", 9", 2'-1 3/8", 4 3/8"



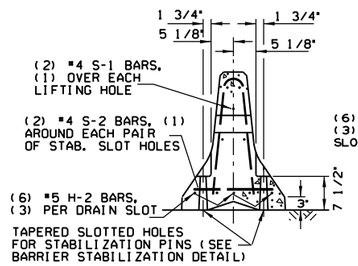
CONNECTION DETAILS



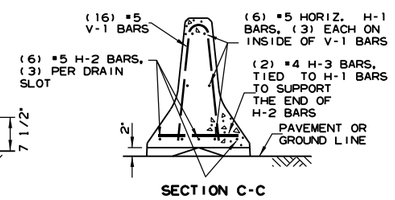
CONNECTION LOOP



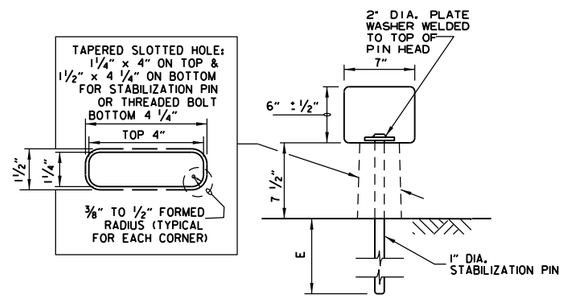
SECTION A-A



SECTION B-B



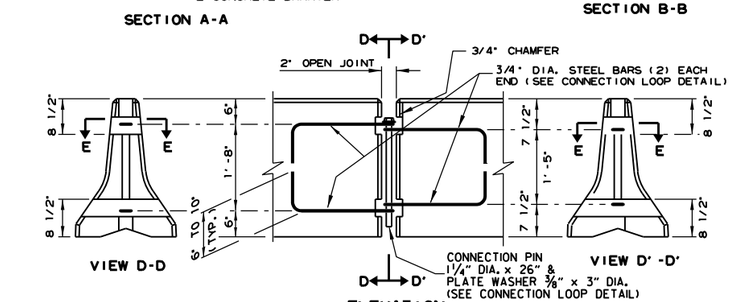
SECTION C-C



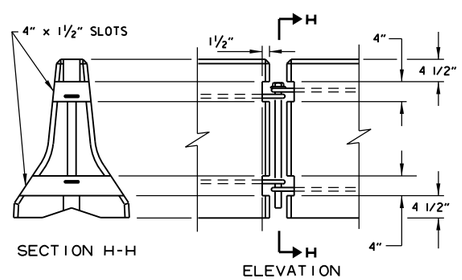
BARRIER STABILIZATION DETAIL

ROADWAY SECTION

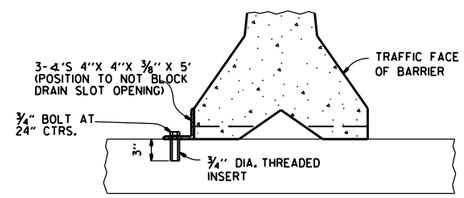
(E) 4" - CONCRETE PAVEMENT
8" - ASPHALT PAVEMENT
12" - SHOULDER AREAS



ELEVATION



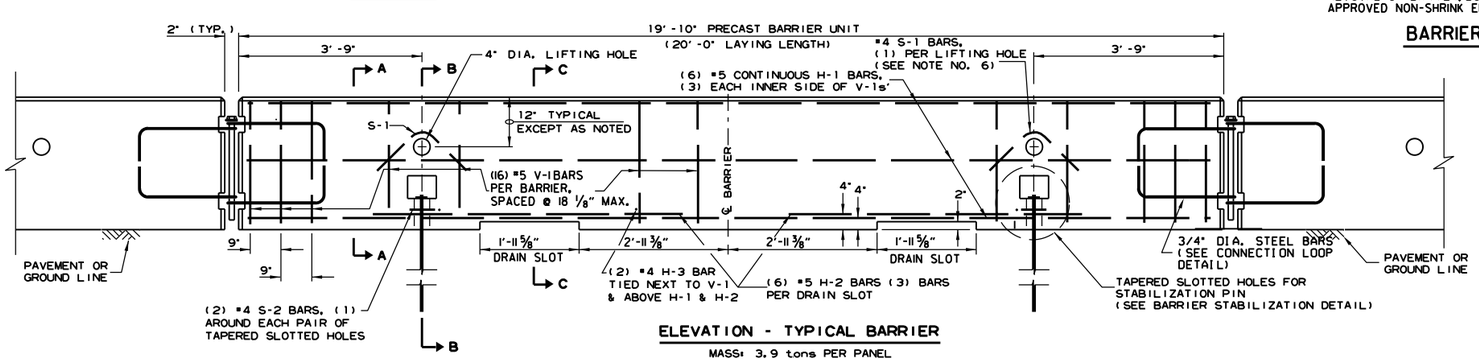
BARRIER REMOVAL SLOT DETAILS



NOTE: " THREADED INSERTS SHALL BE CAST IN PLACE FOR ALL NEW BRIDGE DECKS AND DRILLED AND GROUTED FOR EXISTING BRIDGE DECKS. INSERTS SHALL HAVE A MINIMUM ULTIMATE LOAD CAPACITY OF 8000 LBS. IN TENSION. AFTER REMOVAL OF BARRIER, BOLTS, AND ANGLES, THE INSERTS SHALL BE FILLED WITH APPROVED NON-SHRINK EPOXY.

BARRIER STABILIZATION DETAIL

BRIDGE DECKS



ELEVATION - TYPICAL BARRIER

MASS: 3.9 tons PER PANEL

GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH THE PRECAST CONCRETE BARRIER UNITS AND SHALL BE RESPONSIBLE FOR THE MANUFACTURE, SHIPMENT, STORAGE, PLACEMENT AND REMOVAL. AT THE COMPLETION OF THE PROJECT, THE PRECAST UNITS WILL REMAIN THE PROPERTY OF THE CONTRACTOR.

2. MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   CONCRETE: 2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
   REINFORCING STEEL: AASHTO M 31 OR M 53, GRADE 60
   STRUCTURAL STEEL: AASHTO-M270 GRADE 36 SHALL BE USED FOR THE CONNECTION PIN, CONNECTION LOOPS, AND STABILIZATION PINS. A ONE PIECE PIN WITH A 3" ROUNDED TOP MAY BE USED IN PLACE OF THE DETAILED CONNECTION PIN.
   DELINEATORS: DELINEATORS SHALL BE MOUNTED AT 10' SPACING ON TOP OF PRECAST BARRIER.

   IN APPLICATIONS WHERE BARRIER WALL IS WITHIN 6 FEET OF A TRAFFIC LANE, ADDITIONAL DELINEATORS SHALL BE PLACED ON THE BARRIER AT 10' SPACING APPROXIMATELY ONE (1) FOOT FROM THE TOP OF THE BARRIER. DELINEATORS SHALL BE ON THE ARDOT QUALIFIED PRODUCTS LIST FOR CONSTRUCTION CONCRETE BARRIER MARKERS.
   DELINEATOR COLOR SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   PAYMENT FOR DELINEATORS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID PER LIN. FT. FOR "FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER". THE CONTRACTOR SHALL CERTIFY TO THE ENGINEER THAT THE MATERIAL AND THE DESIGN USED IN THE PRECAST BARRIER UNITS MEETS THE REQUIREMENTS AS SHOWN ON THIS STANDARD DRAWING.

3. OTHER PRECAST CONCRETE BARRIERS THAT HAVE BEEN CRASH TESTED AND APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION TO MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) WILL BE ACCEPTED IN LIEU OF THE BARRIER SHOWN. DRAIN SLOTS SHALL BE PROVIDED AS NEEDED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH A CERTIFICATION OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) COMPLIANCE FOR ANY OTHER TYPES OF PRECAST BARRIER TO BE USED. THE CERTIFICATION SHALL STATE THAT THE PRECAST CONCRETE BARRIER MEETS THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). MIXING OF SHAPES WILL NOT BE ALLOWED IN A CONTINUOUS LINE OF UNITS.

4. DOWEL HOLES IN PAVEMENT OR BRIDGE SLABS THAT ARE TO REMAIN IN PLACE SHALL BE FILLED. HOLES IN CONCRETE PAVEMENT AND BRIDGE SLABS SHALL BE FILLED WITH AN APPROVED NON-SHRINK EPOXY GROUT. HOLES IN ASPHALT PAVEMENT SHALL BE FILLED WITH AN APPROVED ASPHALT JOINT FILLER. PAYMENT FOR DRILLING AND FILLING HOLES TO BE INCLUDED IN THE PRICE FOR VARIOUS BARRIER ITEMS.

5. ATTACH UNITS TO ROADWAY SURFACE WITH STABILIZATION PINS AND TO DECK SLABS USING BOLTS WHEN REQUIRED.

6. A 4" WHITE PVC SLEEVE MAY BE USED TO FORM THE LIFTING HOLE AND IF USED THE SLEEVE IS TO BE LEFT IN PLACE.

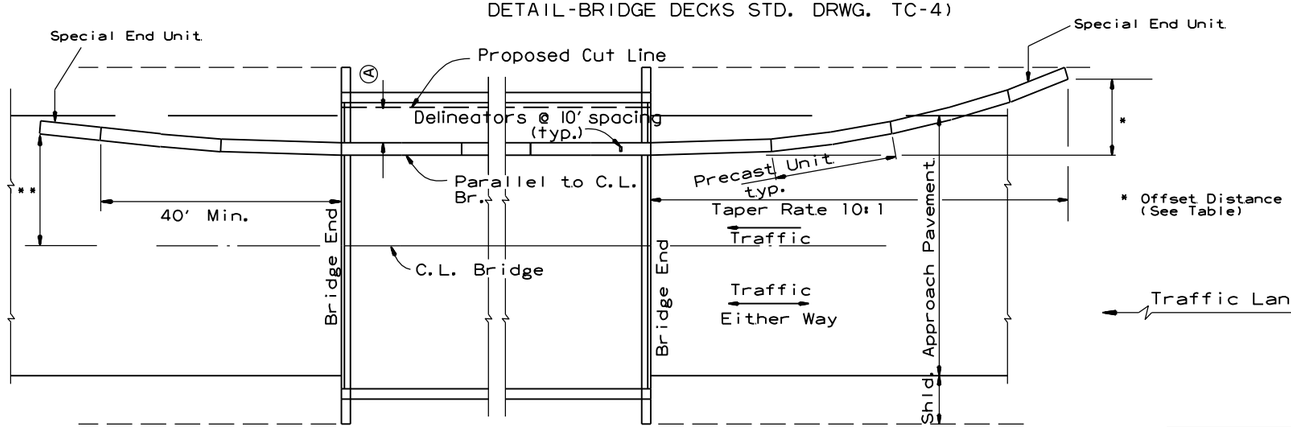
DATE	REVISION	FILMED
11-07-19	REVISED NOTE 3	
2-27-14	REVISED BARRIER STABILIZATION DETAIL	
10-15-09	ADDED REFERENCE TO MASH	
8-5-09	REV. NOTE 3 CONCERNING DRAIN SLOTS	
11-29-07	REVISED NOTE 3	
5-25-06	DELETED GENERAL NOTE 7	
11-18-04	REVISED BARRIER STABILIZATION DETAIL BRIDGE DECKS	
4-10-03	REVISED GENERAL NOTE 2	
8-22-02	ISSUED NEW DRAWING	

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

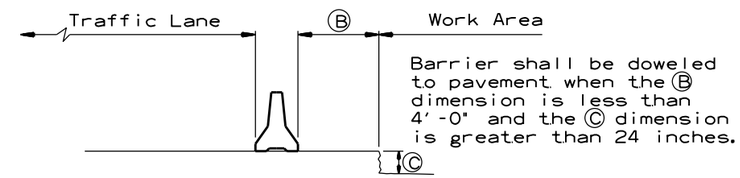
STANDARD DRAWING TC-4

Ⓐ 4 feet or greater preferred. If less than 4 feet, Precast Units shall be connected to slab (SEE BARRIER STABILIZATION DETAIL-BRIDGE DECKS STD. DRWG. TC-4)



BARRIER PLACEMENT ALONG BRIDGE WITH OFFSET

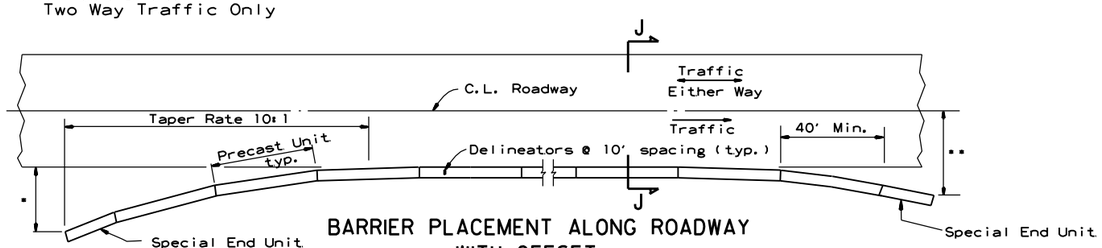
No Scale



Barrier shall be doweled to pavement when the Ⓑ dimension is less than 4'-0" and the Ⓒ dimension is greater than 24 inches.

SECTION J-J

No Scale



BARRIER PLACEMENT ALONG ROADWAY WITH OFFSET

No Scale

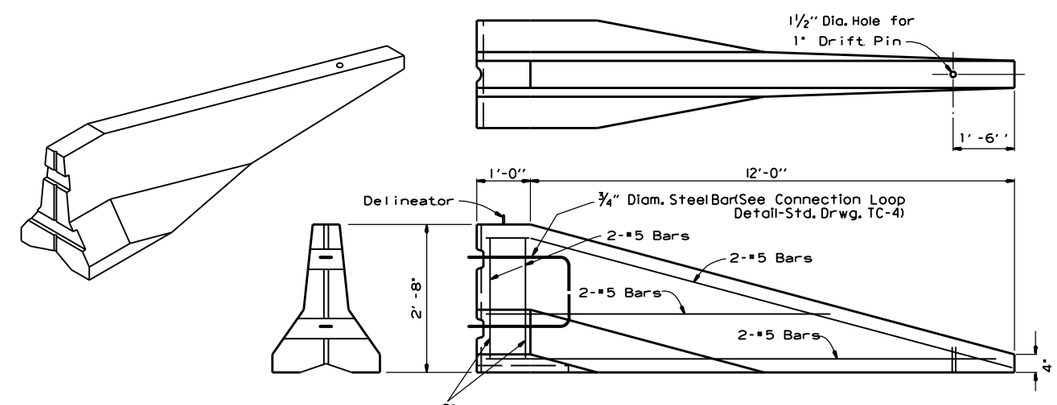
* Offset Distance (See Table)

** Offset Distance For Two Way Traffic Only

Offset Distance Table

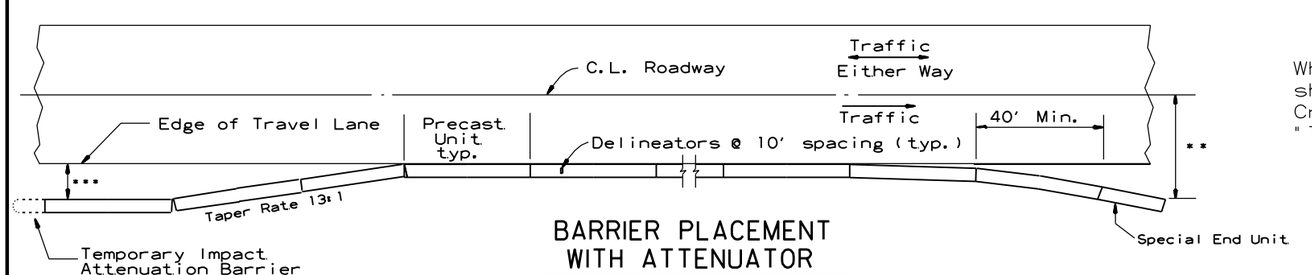
Speed (MPH)	Offset Distance (FT.)
≤ 45	12
> 45	18

If offset distance is not attainable, then see "Barrier Placement With Attenuator" Detail shown below.



SPECIAL END UNIT

No Scale



BARRIER PLACEMENT WITH ATTENUATOR

No Scale

*** Min. 3'-0" From Edge of Travel Lane to Nearest Edge of Attenuator

** Offset Distance For Two Way Traffic Only

General Notes

When shown on the Plans, the ends of the Temporary Precast Concrete Barrier shall be protected with a Manual For Assessing Safety Hardware (MASH) approved Crash Cushion. Payment for Crash Cushions shall be made under the item of "Temporary Impact Attenuation Barrier."

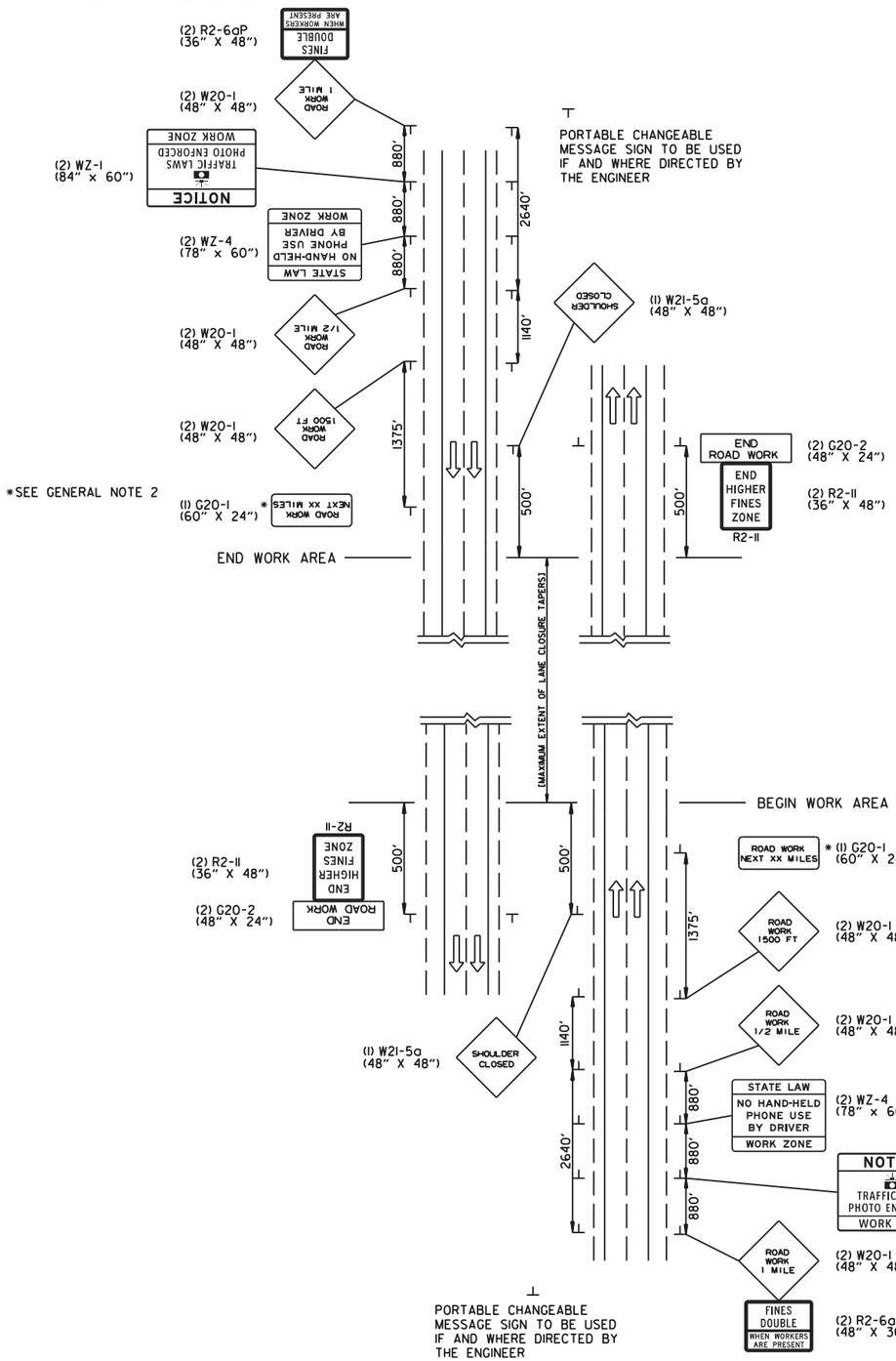
DATE	REVISION	FILMED
11-07-19	REVISED NOTE	
10-15-09	ADDED REFERENCE TO MASH	
5-25-06	REVISED BARRIER PLACEMENT	
8-22-02	ISSUED NEW DRAWING	

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

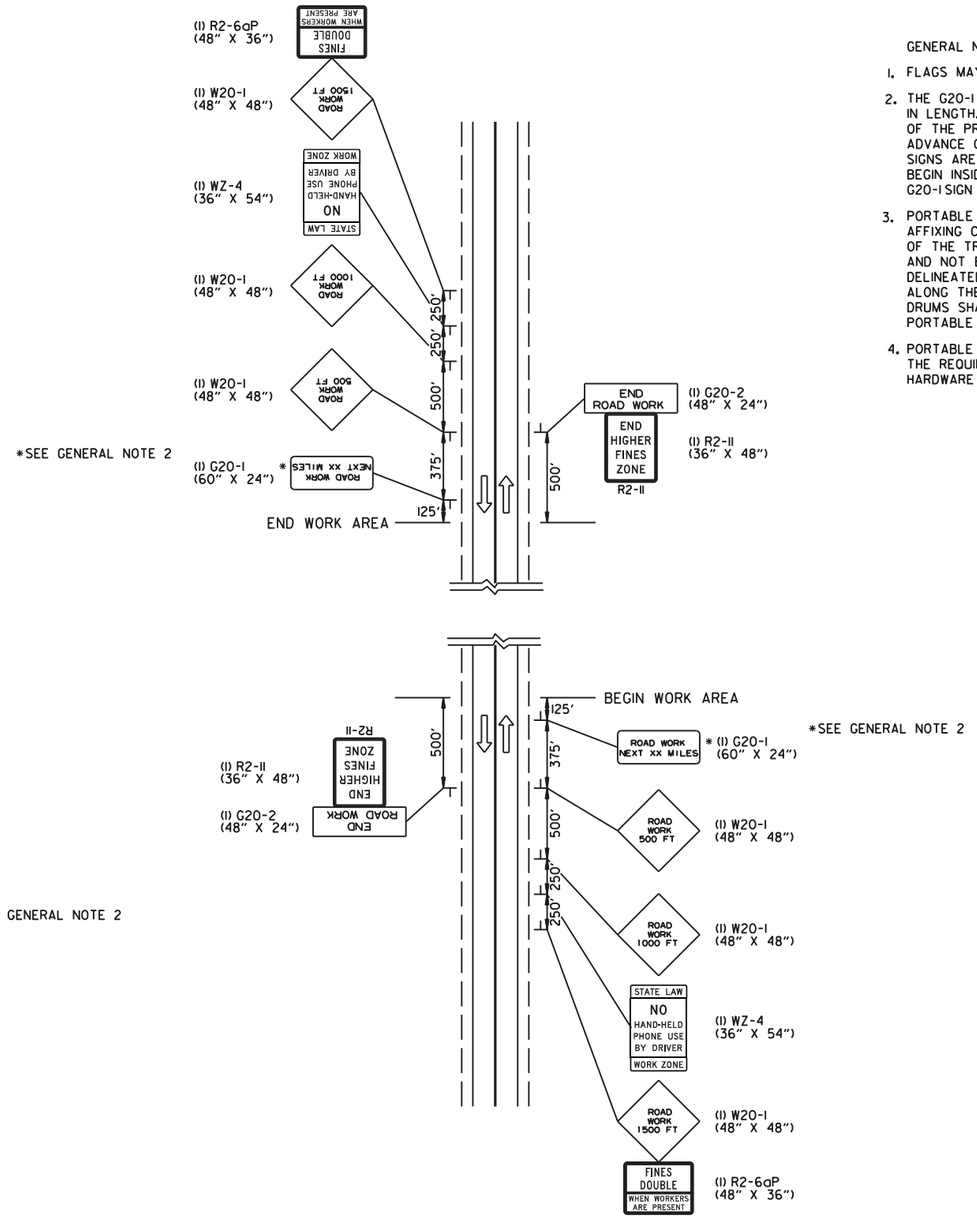
STANDARD DRAWING TC-5

NOTE : W20-1 (VARIOUS DISTANCE) ADVANCE SIGNS TO BE REPLACED AS NEEDED BY EQUIVALENT W20-5 SIGNS AS WORKING AREA SHIFTS.



NOTE : W20-1 (VARIOUS DISTANCE) ADVANCE SIGNS TO BE REPLACED AS NEEDED BY EQUIVALENT W20-5 SIGNS AS WORKING AREA SHIFTS.

(A) TYPICAL APPLICATION - ADVANCE WARNING SIGNS AT BEGINNING AND END OF JOB (FULLY CONTROLLED ACCESS FACILITIES) (ALL STAGES)



(B) TYPICAL APPLICATION - ADVANCE WARNING SIGNS AT BEGINNING AND END OF JOB (NON-FULLY CONTROLLED ACCESS FACILITIES) (ALL STAGES)

GENERAL NOTES:

1. FLAGS MAY BE MOUNTED TO SIGNS AT NIGHT AS NEEDED.
2. THE G20-1 SIGN SHOULD BE INSTALLED ON JOBS OF OVER TWO MILES IN LENGTH. WHEN THE LANE CLOSURE IS NOT AT THE BEGINNING OF THE PROJECT, THE G20-1 SIGN SHALL BE ERECTED 125' IN ADVANCE OF THE JOB LIMIT. ADDITIONAL W20-1 (1 MILE OR 1500 FT) SIGNS ARE NOT REQUIRED IN ADVANCE OF LANE CLOSURES THAT BEGIN INSIDE THE PROJECT LIMITS. THE DISTANCE DISPLAYED ON THE G20-1 SIGN SHALL BE STATED TO THE NEAREST WHOLE MILE.
3. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THIS DEVICE SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR PORTABLE CHANGEABLE MESSAGE SIGNS.
4. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).

DATE REV	DESCRIPTION
04-09-26	CORRECTED WZ-4 SIGN DIMENSIONS
01-22-26	ADDED WZ-4 AND REVISED GENERAL NOTE 1
11-06-25	REPLACED "SPEED" WITH "TRAFFIC LAWS" ON WZ-1
08-14-25	ISSUED

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

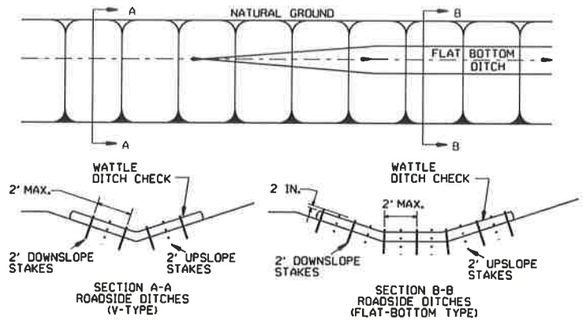
DATE EFFECTIVE 04-09-2026

STANDARD DRAWING

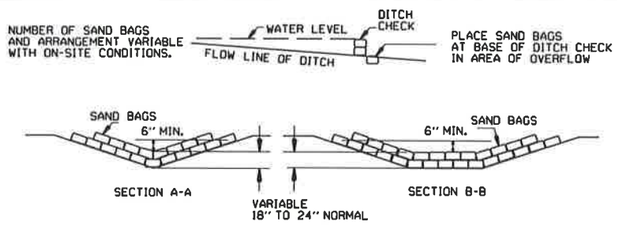
TC-6

GENERAL NOTES

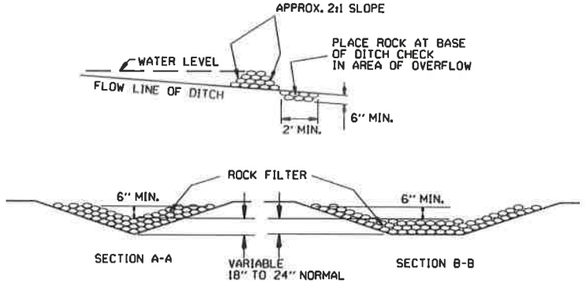
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

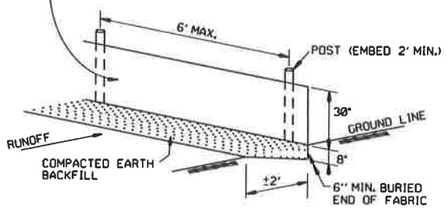


ROCK DITCH CHECK (E-6)

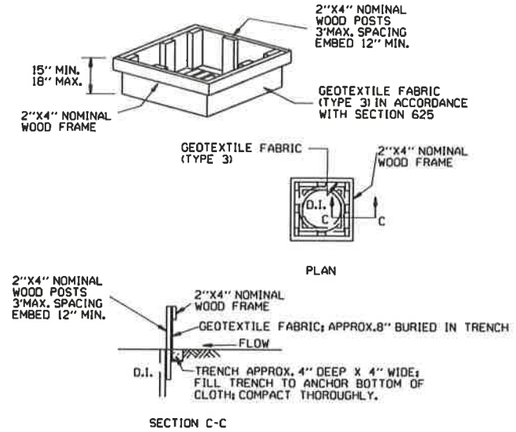
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

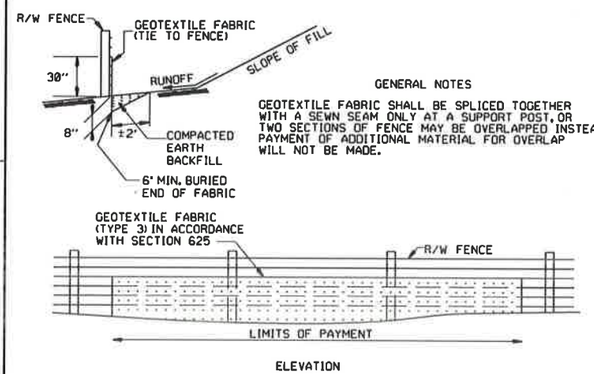
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)



DROP INLET SILT FENCE (E-7)



GENERAL NOTES

GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

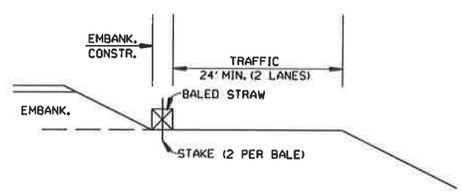
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

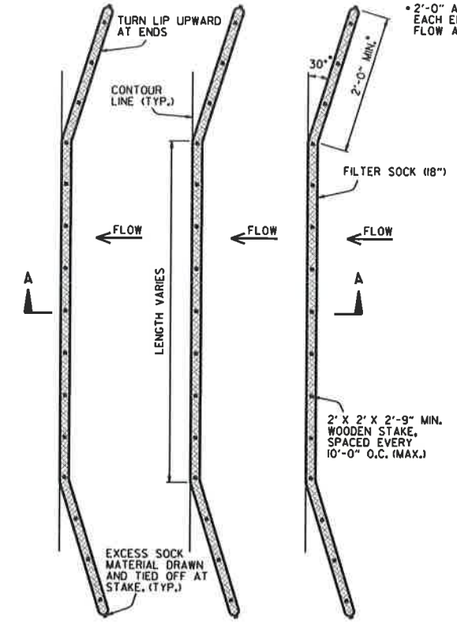
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

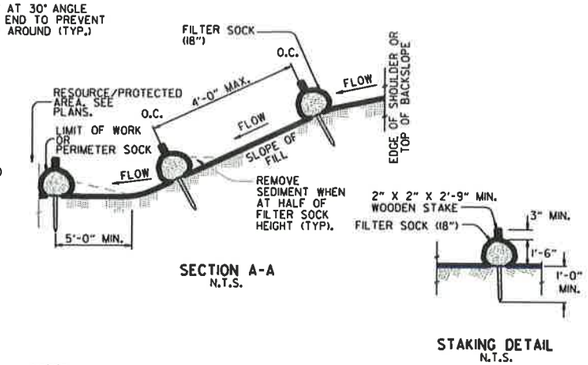
3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)



PLAN VIEW
N.T.S.



STAKING DETAIL
N.T.S.

NOTES:

1. FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF.

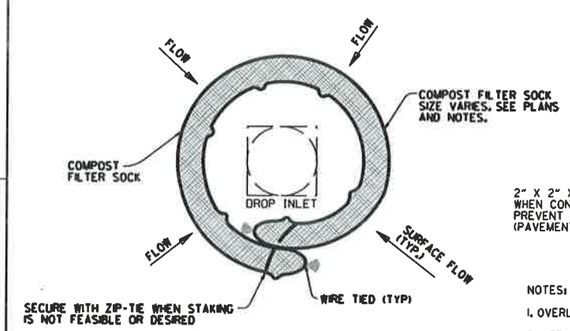
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR STEEL POSTS, BUT PRICE WILL BE CONSIDERED SUBIDIARY TO "FILTER SOCK (18")."

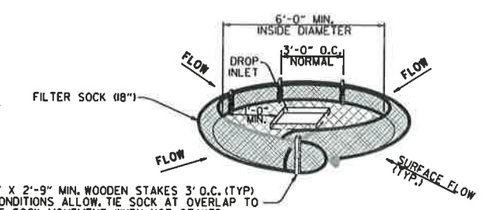
4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

5. INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.

FILTER SOCK ALONG SLOPE (E-3)



DROP INLET PLAN VIEW
N.T.S.



DROP INLET PERSPECTIVE VIEW
N.T.S.

NOTES:

1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).

2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

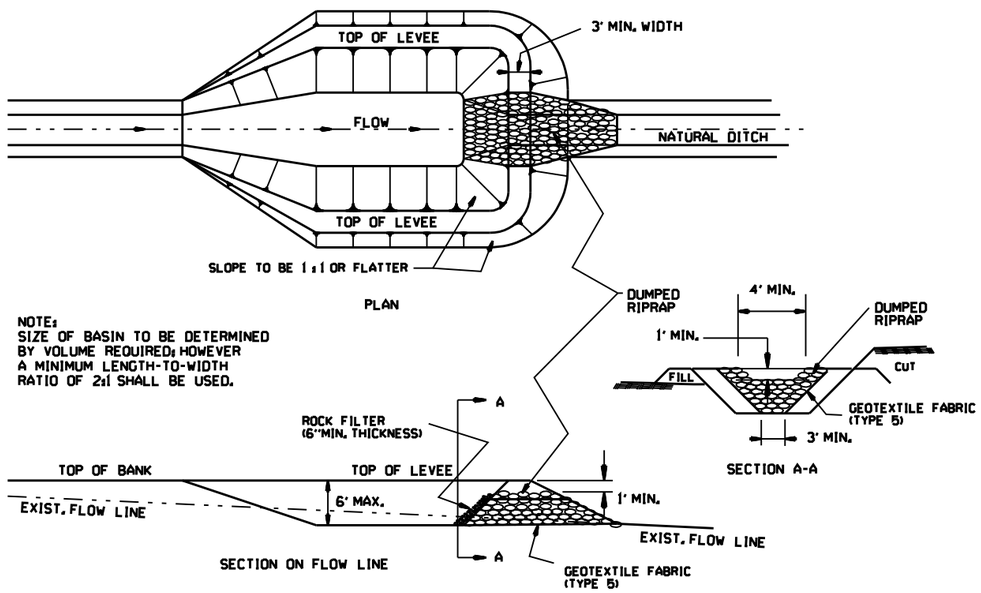
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

DATE	REVISION	FILMED
11-16-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC	
06-02-94	REVISED E-1,4,7 & 11; DELETED E-2 & 3	6-2-94
04-01-93	REDRAWN	
10-01-92	REDRAWN	
08-02-76	ISSUED R.D.M.	298-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

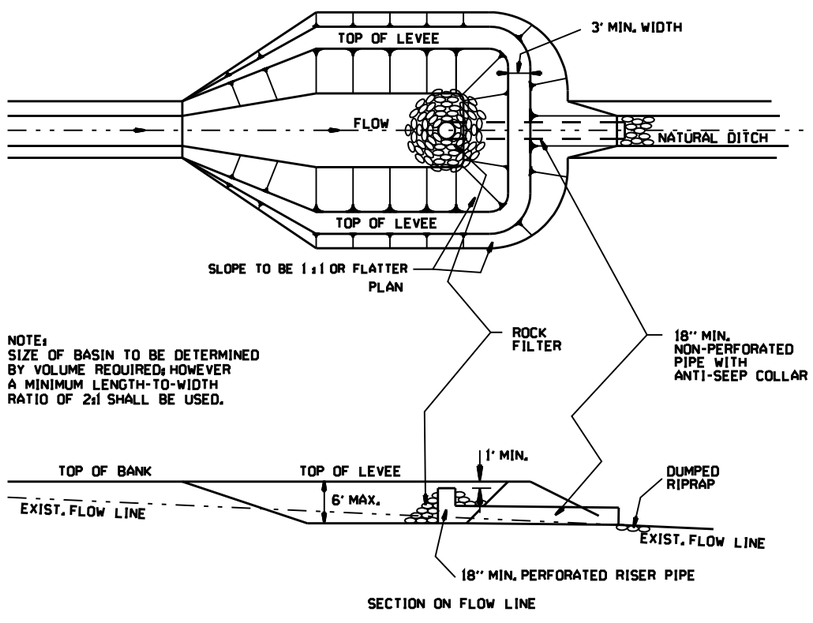
TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-1



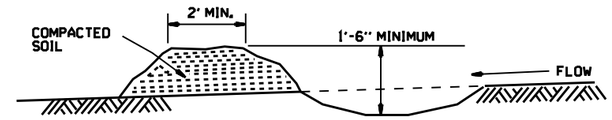
NOTE:
SIZE OF BASIN TO BE DETERMINED BY VOLUME REQUIRED; HOWEVER A MINIMUM LENGTH-TO-WIDTH RATIO OF 2:1 SHALL BE USED.

SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



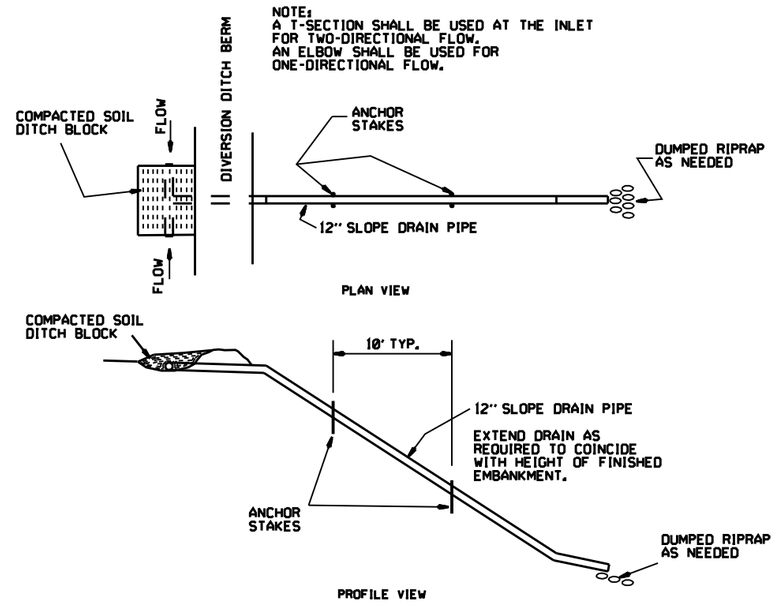
NOTE:
SIZE OF BASIN TO BE DETERMINED BY VOLUME REQUIRED; HOWEVER A MINIMUM LENGTH-TO-WIDTH RATIO OF 2:1 SHALL BE USED.

SEDIMENT BASIN WITH PIPE OUTLET (E-10)

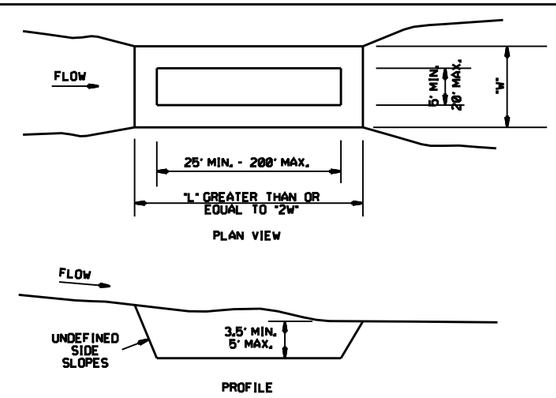


DIVERSION DITCH (E-8)

NOTE:
A T-SECTION SHALL BE USED AT THE INLET FOR TWO-DIRECTIONAL FLOW.
AN ELBOW SHALL BE USED FOR ONE-DIRECTIONAL FLOW.



SLOPE DRAIN (E-12)



SEDIMENT BASIN (E-14)

DATE	REVISION	FILMED
6-2-94	Revised E-8 & E-12; Added E-14 & Deleted E-13	
4-1-93	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

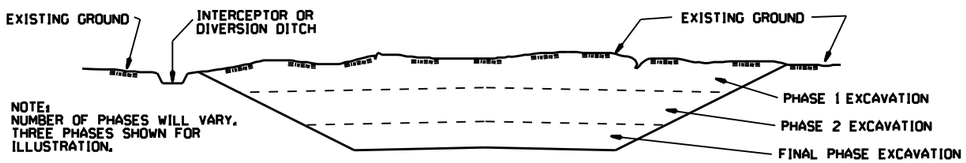
STANDARD DRAWING TEC-2

CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES , DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION



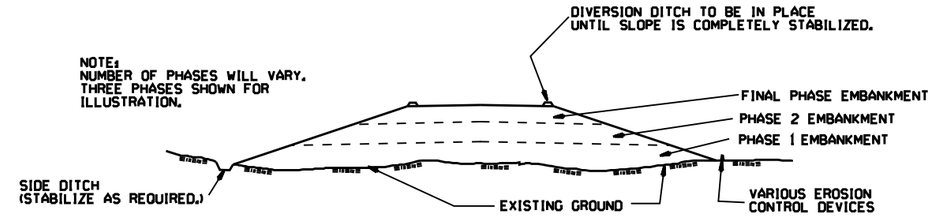
GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

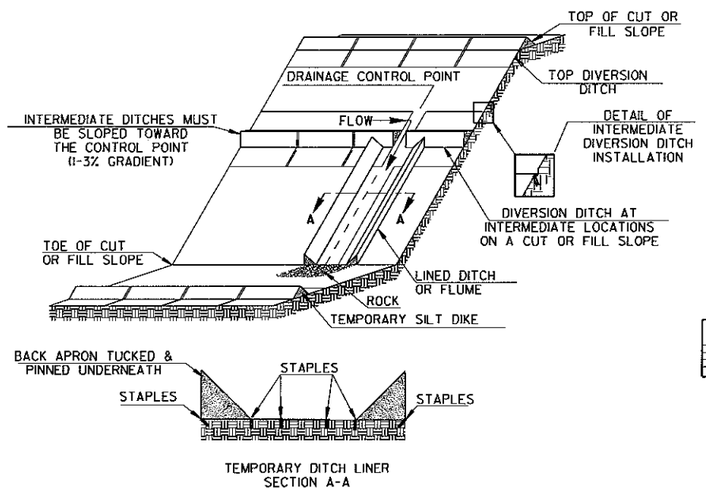
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

DATE	REVISION	FILMED
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94

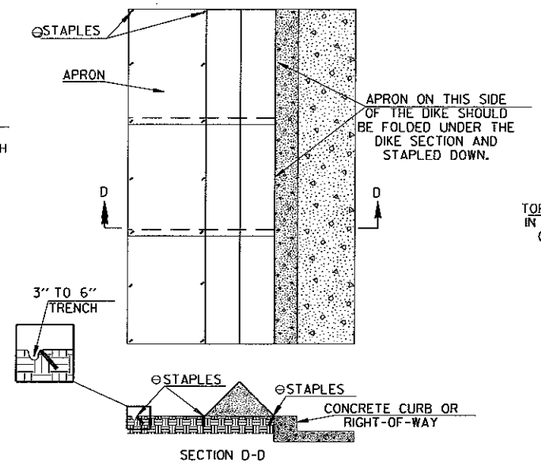
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

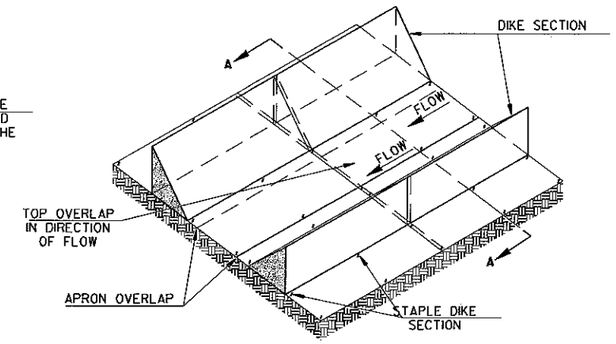
STANDARD DRAWING TEC-3



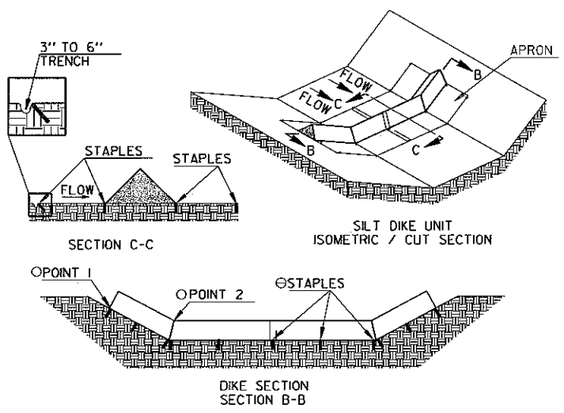
TRIANGULAR SILT DIKE INSTALLATION
FOR
DIVERSION DITCH AND/OR DITCH LINER



TRIANGULAR SILT DIKE INSTALLATION
FOR
CONTINUOUS BARRIER



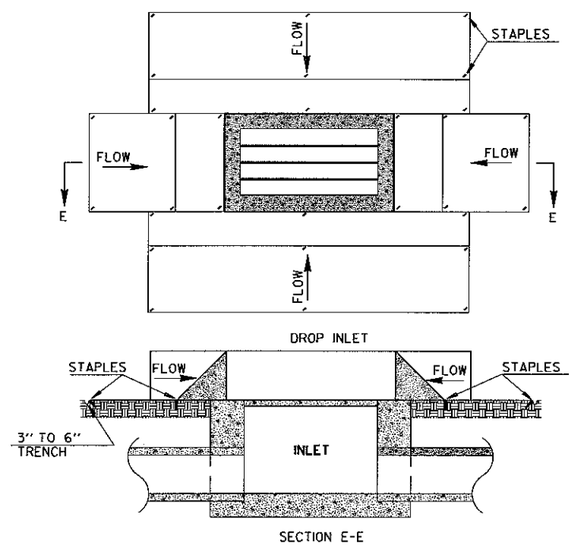
TRIANGULAR SILT DIKE INSTALLATION
FOR
TEMPORARY DITCH LINER



TRIANGULAR SILT DIKE INSTALLATION
FOR
ROADWAY DITCH OR DRAINAGE DITCH

O POINT "1" MUST BE HIGHER THAN POINT "2" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

⊖ STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN ON THE DIAGRAM.



TRIANGULAR SILT DIKE INSTALLATION
FOR
DROP INLETS

SYMBOLOGY

SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

NOTE: SILT DIKE SHOULD ONLY BE USED FOR DROP INLETS IN SUMP LOCATIONS.

GENERAL NOTES

1. THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, AND MAINTAINING THE TRIANGULAR SILT DIKE. THE DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR ACROSS THE ROADWAY DITCH TO CONTAIN SEDIMENT AND MINIMIZE EROSION, OR AS DIRECTED BY THE ENGINEER. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER.

2. TRIANGULAR SILT DIKE SHALL BE TRIANGULAR SHAPED HAVING A HEIGHT OF AT LEAST 8" TO 10" IN THE CENTER WITH EQUAL SIDES AND A 16" TO 20" BASE. THE TRIANGULAR SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. THE OUTER COVER SHALL BE A WOVEN GEOTEXTILE FABRIC PLACED AROUND THE INNER MATERIAL & ALLOWED TO EXTEND BEYOND BOTH SIDES OF THE TRIANGLE 24" TO 36". THIS FABRIC SHOULD BE MILDEW RESISTANT, ROT-PROOF AND RESISTANT TO HEAT AND ULTRAVIOLET RADIATION MEETING REQUIREMENTS FOR SEDIMENT CONTROL IN AASHTO M288. THE DIKES SHALL BE ATTACHED TO THE GROUND WITH WIRE STAPLES. THE STAPLES SHALL BE NO. 11 GAUGE WIRE AND BE AT LEAST 6" TO 8" LONG. STAPLES SHALL BE PLACED AS SHOWN ON THESE DETAILS.

   THE CONTRACTOR SHALL INSPECT ALL DIKES AFTER EACH RAINFALL EVENT OF AT LEAST 0.5" OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR. ACCUMULATED SILT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE DIKES ARE DAMAGED OR INADVERTENTLY MOVED DURING THE SILT REMOVAL PROCESS, THE CONTRACTOR SHALL IMMEDIATELY REPLACE AFTER DAMAGE OCCURS.

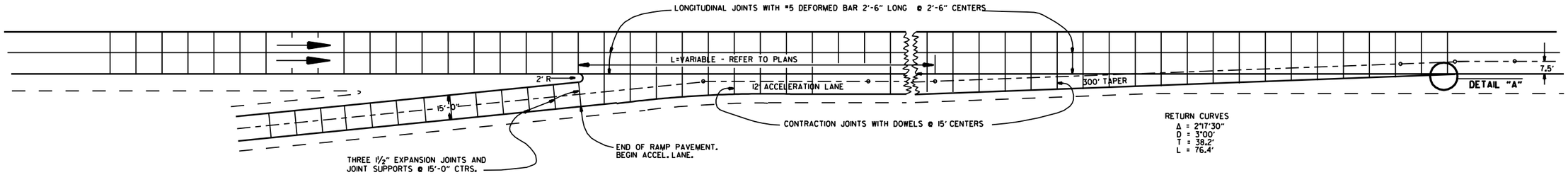
3. ACCEPTED TRIANGULAR SILT DIKE, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR TRIANGULAR SILT DIKE. PRICE BID WILL INCLUDE THE COST OF FURNISHING THE DIKES, INSTALLING, MAINTAINING AND REMOVAL WHEN DIRECTED BY THE ENGINEER.

DATE	REVISION	FILMED
7-26-12	REVISED GENERAL NOTE 2.	
12-15-11	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

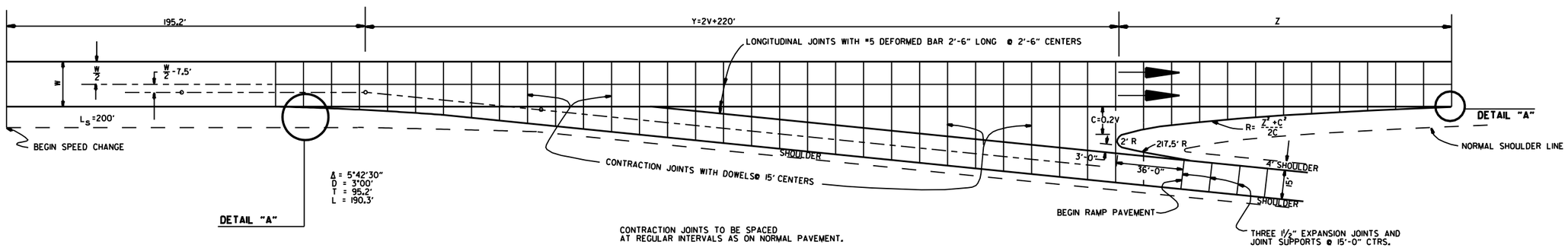
TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-4



ENTRANCE RAMP

NOTE: JOINT SPACING ON THE MAIN LANES SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO THESE JOINT LAYOUTS. THE MAIN LANE JOINT SPACING MAY BE REDUCED TO A 12' MINIMUM.

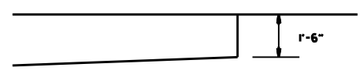


CONTRACTION JOINTS TO BE SPACED AT REGULAR INTERVALS AS ON NORMAL PAVEMENT.

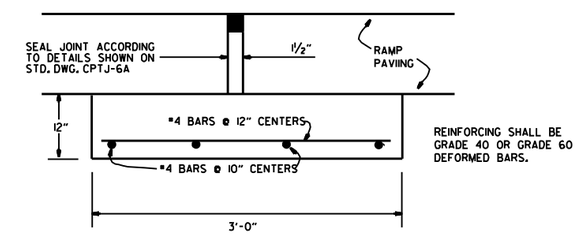
EXIT RAMP

EXIT RAMP

DESIGN SPEED V	Y	NOSE OFFSET C	LENGTH NOSE TAPER Z	RETURN RADIUS R	ADDITIONAL SURFACING SQ. YDS.
40	300.0	8.0	96.0	580.0	602.43
50	320.0	10.0	120.0	725.0	687.29
60	340.0	12.0	168.0	1182.0	790.55
70	360.0	14.0	210.0	1582.0	902.27



DETAIL "A"



DETAIL OF EXPANSION JOINT & JOINT SUPPORT

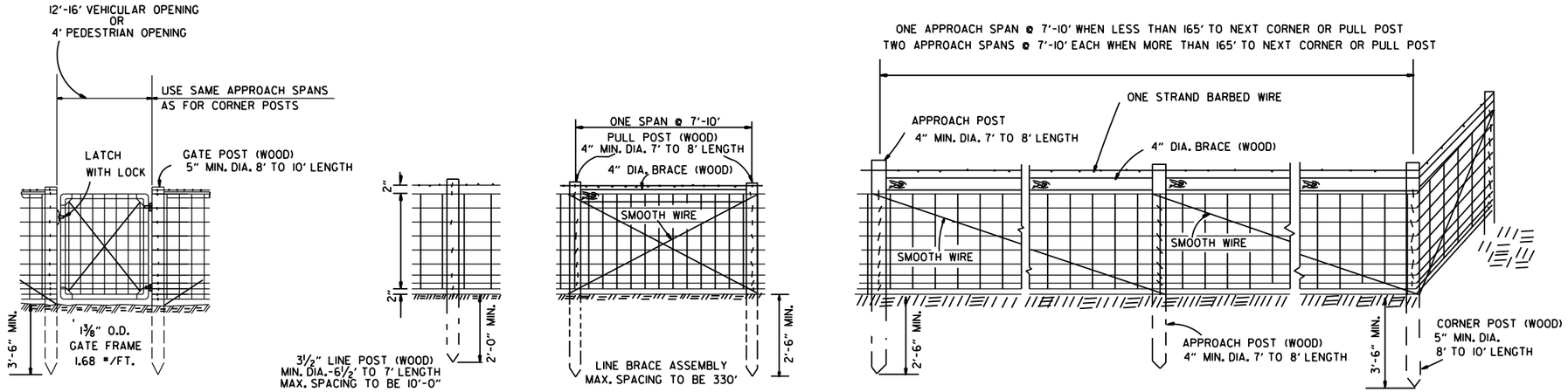
NOTE: THE EXPANSION JOINTS SHALL BE MEASURED AND PAID FOR AS P.C.C. PAVEMENT (RAMP THICKNESS). WHEN RAMP PAVING IS ASPHALT, EXPANSION JOINT IS NOT REQUIRED.
THE JOINT SUPPORT MAY BE CONSTRUCTED WITH CLASS "A", "S", OR PAVING CONCRETE. PAYMENT FOR THE JOINT SUPPORT SHALL BE FOR THE CONTRACT UNIT PRICE BID FOR THE CLASS OF CONCRETE USED. ALL OTHER WORK AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE JOINT SUPPORT SHALL BE INCLUDED IN THE PRICE BID FOR THE ABOVE ITEMS.

DATE	REVISION	DATE FILM'D
8-22-02	DELETED NOTE	
11-16-01	CORRECTED SPELLING ON ENTRANCE RAMP NOTE	
5-13-99	ADDED, EDITED AND DELETED NOTES	
11-03-94	ADDED NOTE RE: REINF. BARS	
10-1-92	ADDED DETAIL A & OTHER MINOR CHANGES	10-1-92
1-25-90	REVISED EXPANSION JOINT	1-25-90
7-15-88	CONFORM'D TO 1988 SPECIFICATIONS	65C-7-15-88
3-2-81	ISSUED	511-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF STANDARD TURNOUT FOR ENTRANCE & EXIT RAMPS (NON-REINFORCED)

STANDARD DRAWING TR-1A



NOTE: STAPLE AT LEAST TOP, BOTTOM AND ALTERNATE WIRES OF WOVEN FABRIC FOR WOOD LINE POSTS.

TYPE A FENCE (WOOD POSTS)

GENERAL NOTES:

STEEL LINE POSTS SHALL BE GALVANIZED, 7 FT. IN LENGTH.

TUBULAR END, CORNER, PULL, OR DIAGONAL BRACES MUST CONFORM TO THE DIMENSIONS AND WEIGHTS SPECIFIED ON STANDARD DRAWING WF-3 (CHAIN LINK).

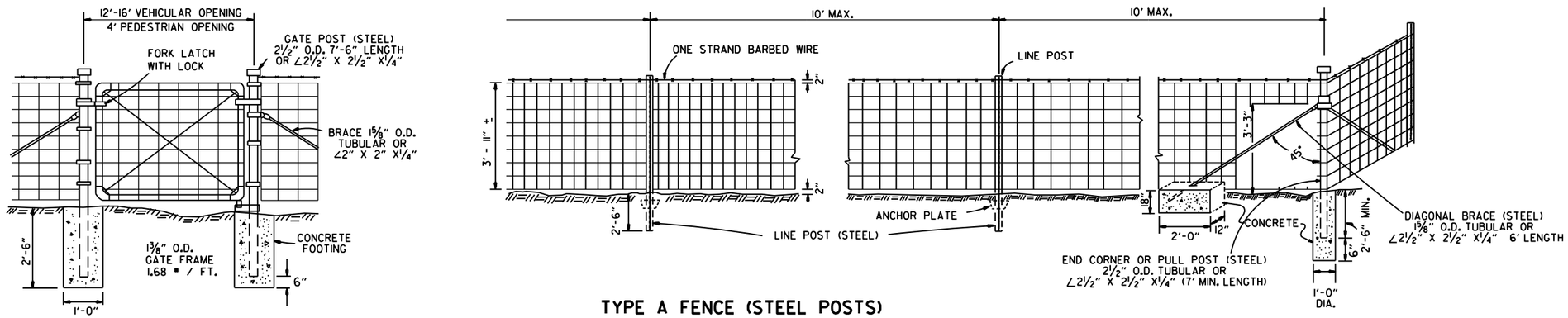
THE CONTRACTOR SHALL FURNISH AT LEAST 25% OF WOOD LINE POSTS OF 7' LENGTHS IN ORDER TO PROVIDE SUFFICIENT SET IN SOFT GROUND OR SMALL DEPRESSIONS.

GATE HINGES AND LATCHES WITH LOCKS TO BE OF A TYPE APPROVED BY THE ENGINEER. DRIVEWAY GATES, EITHER SINGLE 12' OR 16' OR DOUBLE 6' TO 8' OPENINGS OF THE SAME TYPE AS THE PEDESTRIAN GATE, SHALL BE INSTALLED ON THE RIGHT SIDE OF EACH THROUGH LANE ROAD AT LARGE CULVERTS OR BRIDGE CROSS FENCE FOR USE BY MAINTENANCE EQUIPMENT. LOCATION OF GATES TO BE SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER.

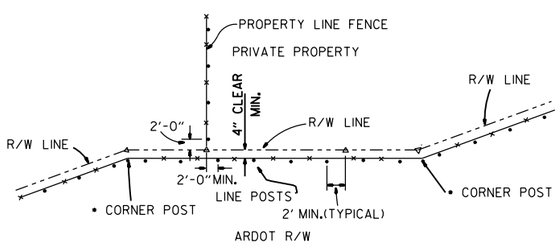
AT STREAM CROSSINGS THE FENCE SHALL NOT BE CONSTRUCTED ACROSS LARGE STREAMS. WHERE CLEARANCE IS SUFFICIENT FROM THE TOP OF BANK TO THE BRIDGE STRUCTURE, A CROSS CONNECTION SHALL BE CONSTRUCTED BETWEEN THE FENCE ON EACH SIDE OF THE ROAD. WHERE THE CLEARANCE IS NOT SUFFIEICNT, THE FENCE SHALL BE TERMINATED WITH CROSS CONNECTIONS AND END POSTS ADJACENT TO THE BRIDGE ABUTMENTS OR CULVERT WINGWALLS.

SPLICE FOR WOVEN WIRE BETWEEN PULL POST SHALL BE BY THE "WESTERN UNION METHOD" AS DESCRIBED AS FOLLOWS: THE VERTICAL WIRES FOR EACH END OF THE FENCE FABRIC SHALL BE PLACED SIDE BY SIDE AND THE PROJECTING HORIZONTAL WIRES SHALL BE WRAPPED A MINIMUM OF 4 TIMES AROUND THE HORIZONTAL WIRES OF THE FIRST WEB.

SPLICE FOR BARBED WIRE BETWEEN PULL POST ASSEMBLY SHALL BE BY THE "EYE METHOD"; AS DESCRIBED AS FOLLOWS: THE ENDS OF THE BARBED WIRE SHALL BE BENT TO FORM A LOOP. THE LOOPS SHALL BE CONNECTED. AFTER THE LOOPS ARE CONNECTED THE ENDS OF THE WIRE SHALL BE WRAPPED AROUND THE PROJECTING WIRE A MINIMUM OF 4 TIMES FOR EACH WIRE LOOP.



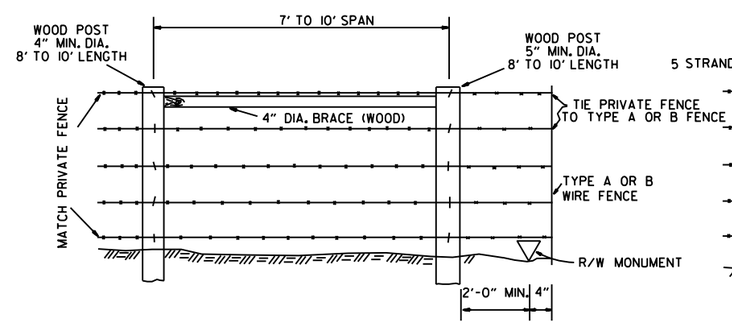
TYPE A FENCE (STEEL POSTS)



•NOTE: RIGHT-OF-WAY MONUMENTS SHALL NOT BE DISTURBED BY FENCE CONSTRUCTION. CORNER POSTS SHALL BE CONSTRUCTED 2' FROM THE RIGHT-OF-WAY MONUMENT OR AS DIRECTED BY THE ENGINEER.

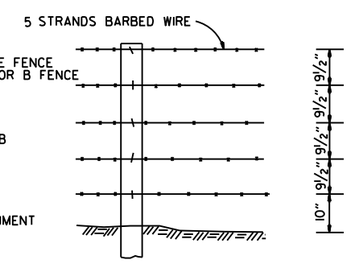
△ - R/W MONUMENTS
• - FENCE POSTS

RIGHT-OF-WAY FENCE LOCATION



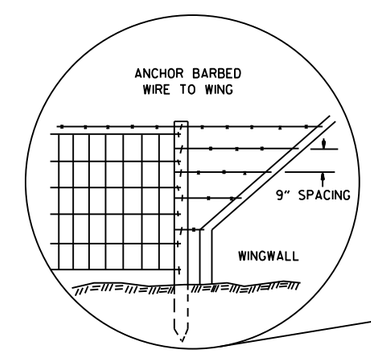
WHERE EXISTING PRIVATE FENCE CONSISTS OF STEEL POSTS, USE END POST ASSEMBLY AS SHOWN WITH TYPE A FENCE OR OTHER END POST ASSEMBLY AS APPROVED BY THE ENGINEER.

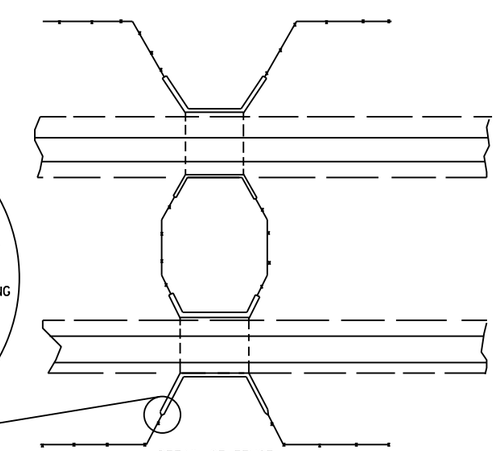
PRIVATE FENCE TERMINAL INSTALLATION



SPACING AND SIZE OF POSTS FOR TYPE B FENCE SHALL BE THE SAME AS TYPE A FENCE.

TYPE B FENCE





DETAIL OF FENCE CONSTRUCTION AT LARGE CULVERTS (5' IN HEIGHT AND OVER)

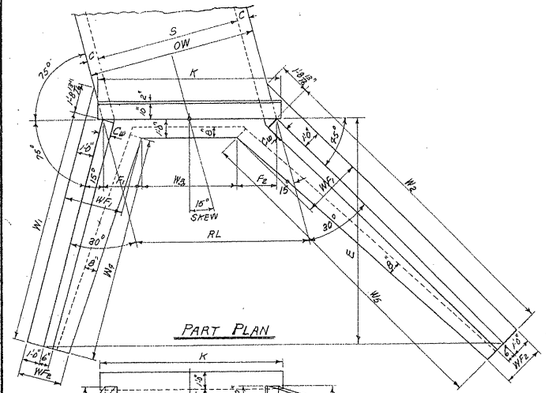
DATE	REVISION	DATE FILMED
8-22-02	REVISED GENERAL NOTES	
10-18-96	REVISED ASTM REF. TO AASHTO	
11-22-95	REVISED R-O-W LOCATION DETAIL	
6-2-94	ADDED CORNER POST NOTE	6-2-94
8-5-93	REVISED R-O-W LOCATION DETAIL	8-5-93
10-1-92	ADDED STAPLE NOTE	
8-2-90	REV'D PULL POST LENGTH	
11-30-89	DELETED CLASS CONC.	
7-15-88	ADDED SPLICE NOTES	
7-15-88	ADDED HEIGHT DIMENSION	
4-3-87	REVISED VARIOUS NOTES	
	AND GENERAL NOTES	
11-1-84	MAX. POST SPACING	
1-4-83	MIN. DIA. LINE POST	
10-2-72	REVISED & REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

WIRE FENCE
TYPE A AND B

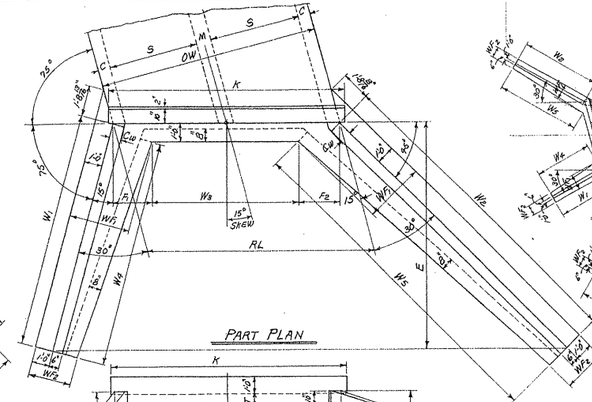
STANDARD DRAWING WF-1

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



SINGLE BARREL CULVERT-15° SKEW RIGHT FORWARD

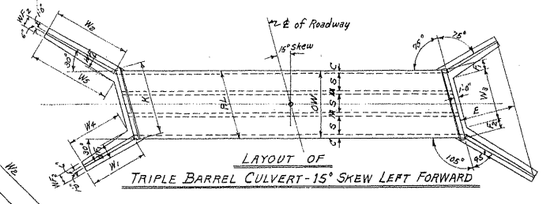
Details of Culvert with 15° Skew Left Forward is reversed, see Layout below.



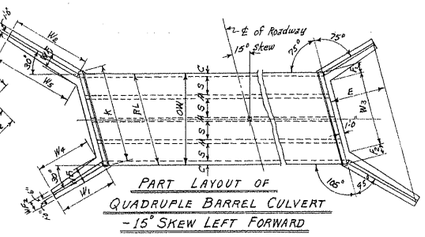
DOUBLE BARREL CULVERT-15° SKEW RIGHT FORWARD

Details of Culvert with 15° Skew Left Forward is reversed, see Layout below.

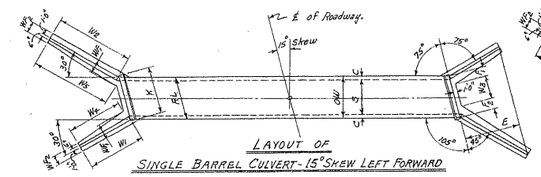
Note:- Plans and Elevations are not to scale.



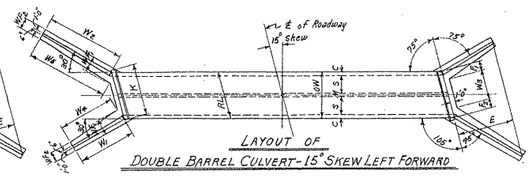
LAYOUT OF TRIPLE BARREL CULVERT-15° SKEW LEFT FORWARD



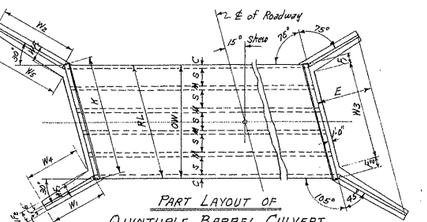
PART LAYOUT OF QUADRUPLE BARREL CULVERT -15° SKEW LEFT FORWARD



LAYOUT OF SINGLE BARREL CULVERT-15° SKEW LEFT FORWARD

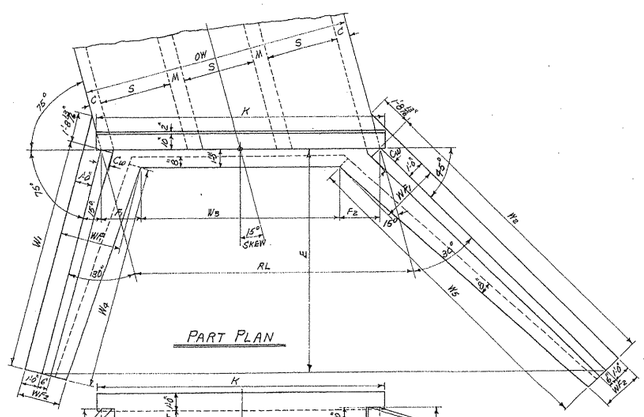


LAYOUT OF DOUBLE BARREL CULVERT-15° SKEW LEFT FORWARD



PART LAYOUT OF QUINTUPLE BARREL CULVERT -15° SKEW LEFT FORWARD

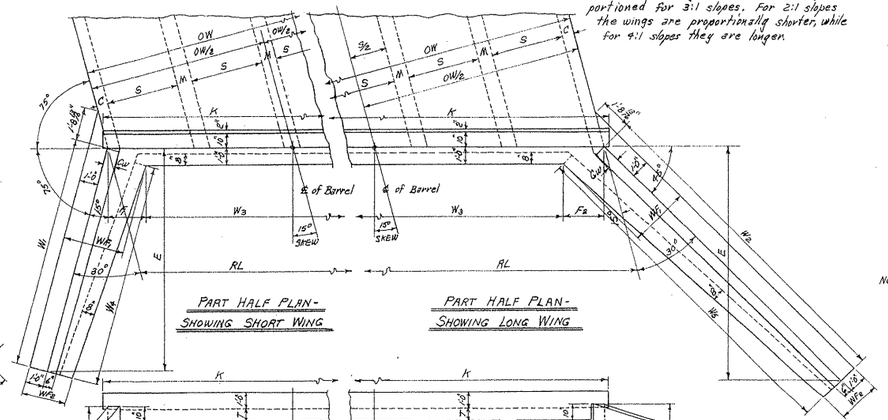
Note:- The length of the wings for the Plans, Elevations, and Layouts, as drawn, are proportioned for 3:1 slopes. For 2:1 slopes the wings are proportionally shorter, while for 4:1 slopes they are longer.



TRIPLE BARREL CULVERT - 15° SKEW RIGHT FORWARD

Details of Culvert with 15° Skew Left Forward is reversed, see Layout at top center of sheet.

Note:- Plans and Elevations are not to scale.



QUADRUPLE BARREL CULVERT- 15° SKEW RT. FWD.

Details of Culvert with 15° Skew Left Forward is reversed, see Layout at above center.

QUINTUPLE BARREL CULVERT- 15° SKEW RT. FWD.

Details of Culvert with 15° Skew Left Forward is reversed, see Layout above.

ROADWAY LENGTH RL — HEADWALL LENGTH K — APRON DIMENSION W_3

$RL = OW \times 1.035276$ — $K = RL + (6\frac{1}{2}'')$ — $W_3 = RL - (F_1 + F_2)$

USE WITH DRAWING No.	CLEAR SPAN S	CLEAR HEIGHT H	SUM OF SLOPE DIMENSIONS F_1 & F_2	SINGLE BARREL CULVERT OW	RL	K	W_3	DOUBLE BARREL CULVERT OW	RL	K	W_3	TRIPLE BARREL CULVERT OW	RL	K	W_3	QUADRUPLE BARREL CULVERT OW	RL	K	W_3	QUINTUPLE BARREL CULVERT OW	RL	K	W_3
W-X152-1, W-X153-1 OR W-X154-1 (FOR H=8'0" OR LESS)	4'	2'	2'-0"	5'-0"	5'-2 1/8"	5'-8 5/8"	3'-2 1/8"	9'-8"	10'-0"	10'-6 1/2"	8'-0"	14'-4"	14'-10"	15'-4 1/2"	12'-10"	19'-0"	19'-8"	20'-2 1/2"	17'-8"	23'-8"	24'-6"	25'-0 1/2"	22'-6"
		3'	2'-9 3/8"	5'-0"	"	"	2'-9 3/8"	9'-8"	"	"	7'-2 1/8"	14'-4"	"	"	12'-0 1/2"	19'-0"	"	"	16'-10 1/2"	23'-8"	"	"	21'-8 1/2"
		4'	3'-7 1/2"	5'-0"	"	"	1'-6 1/2"	9'-8"	"	"	6'-7 1/2"	14'-4"	"	"	11'-2 1/2"	19'-0"	"	"	16'-0 1/2"	23'-8"	"	"	20'-10 1/2"
		5'	4'-5 3/8"	5'-0"	"	"	0'-8 3/8"	9'-8"	"	"	5'-6 3/8"	14'-4"	"	"	10'-9 3/8"	19'-0"	"	"	15'-8 3/8"	23'-8"	"	"	20'-0 3/8"
		6'	5'-3 1/2"	5'-2"	5'-9 3/8"	5'-10 3/8"	0'-1"	9'-11"	10'-3 3/8"	10'-9 3/8"	5'-0"	14'-8"	15'-2 1/8"	15'-6 3/8"	9'-11"	19'-5"	20'-1 1/8"	20'-7 3/8"	14'-10"	24'-2"	25'-0 1/8"	25'-6 3/8"	19'-9"
	5'	3'	2'-9 3/8"	6'-0"	6'-2 1/2"	6'-9"	3'-4 1/2"	11'-8"	12'-1"	12'-7 1/2"	9'-3 1/8"	17'-4"	17'-11 3/8"	18'-3 3/8"	15'-1 1/2"	23'-0"	23'-9 3/8"	24'-4 3/8"	21'-0"	28'-8"	29'-8 1/8"	30'-2 1/2"	26'-10 1/2"
		4'	3'-7 1/2"	6'-0"	"	"	2'-7"	11'-8"	"	"	8'-5 1/8"	17'-4"	"	"	14'-3 1/8"	23'-0"	"	"	20'-2 1/8"	28'-8"	"	"	26'-0 1/8"
		5'	4'-5 3/8"	6'-0"	"	"	1'-9 1/8"	11'-8"	"	"	7'-7 1/8"	17'-4"	"	"	13'-6"	23'-0"	"	"	19'-4 1/2"	28'-8"	"	"	25'-2 1/2"
		6'	5'-3 1/2"	6'-2"	6'-9 1/2"	6'-11 1/8"	1'-1 1/2"	11'-11"	12'-4"	12'-10 1/8"	7'-10 1/8"	17'-8"	18'-3 1/2"	18'-10"	13'-10 1/8"	23'-5"	24'-2 1/8"	24'-9 1/2"	18'-11 3/8"	29'-2"	30'-2 1/2"	30'-8 1/2"	24'-11 1/8"
		7'	6'-5 1/2"	6'-3"	6'-5 3/8"	7'-0 1/8"	Ⓐ 0"	12'-1"	12'-6 1/8"	13'-0 1/2"	6'-0 1/8"	17'-11"	18'-6 1/8"	19'-1"	12'-0 1/8"	23'-9"	24'-7"	25'-1 1/2"	18'-1 1/8"	29'-7"	30'-7 1/2"	31'-2"	24'-1 1/8"
	6'	3'	2'-9 3/8"	7'-0"	7'-3"	7'-9 1/2"	4'-5 1/2"	13'-8"	14'-1 3/8"	14'-8 1/8"	11'-9"	20'-4"	21'-0 1/2"	21'-7"	18'-2 1/2"	27'-0"	27'-11 3/8"	28'-5 1/2"	25'-1 1/2"	33'-8"	34'-10 1/8"	35'-4 1/2"	32'-0 1/8"
		4'	3'-7 1/2"	7'-0"	"	"	3'-7 1/2"	13'-8"	"	"	10'-6 1/2"	20'-4"	"	"	17'-5"	27'-0"	"	"	24'-3 1/2"	33'-8"	"	"	31'-2 1/2"
		5'	4'-5 3/8"	7'-0"	"	"	2'-5 1/2"	13'-8"	"	"	9'-3 1/8"	20'-4"	"	"	14'-7 1/2"	27'-0"	"	"	23'-6"	33'-8"	"	"	30'-10 1/2"
		6'	5'-3 1/2"	7'-2"	7'-5"	7'-11 1/2"	2'-1 1/2"	13'-11"	14'-5"	14'-11 1/2"	9'-1 1/8"	20'-8"	21'-4 1/2"	21'-11 1/2"	16'-1 1/2"	27'-5"	28'-4 1/2"	28'-11"	23'-1 1/2"	34'-2"	35'-4 1/2"	35'-11"	30'-1 1/2"
		7'	6'-5 1/2"	7'-3"	7'-6"	8'-0 1/8"	1'-0 1/8"	14'-1"	14'-7"	15'-1 1/2"	8'-1 1/8"	20'-11"	21'-7 1/8"	22'-2 1/8"	15'-2"	27'-9"	28'-8 3/8"	29'-3 1/8"	22'-3"	34'-7"	35'-9 1/8"	36'-4"	29'-3 1/2"
		8'	7'-8 3/8"	7'-4"	7'-7 1/2"	8'-1 1/8"	Ⓐ 0"	14'-2"	14'-8"	15'-2 1/8"	6'-11 3/8"	21'-0"	21'-8 3/8"	22'-3 1/8"	14'-0 1/8"	27'-10"	28'-9 3/8"	29'-4 1/8"	21'-11 1/8"	34'-8"	35'-10 1/8"	36'-5"	28'-8"
	7'	4'	3'-7 1/2"	8'-0"	8'-3 3/8"	8'-9 3/8"	4'-7 1/8"	15'-8"	16'-2 1/8"	16'-9"	12'-7"	23'-4"	24'-1 1/8"	24'-10 1/8"	20'-6 1/8"	31'-0"	32'-1 1/8"	32'-7 1/8"	28'-5 1/2"	38'-8"	40'-0 3/8"	40'-6 3/8"	36'-7 3/8"
		5'	4'-5 3/8"	8'-0"	"	"	3'-10"	15'-8"	"	"	11'-3 1/8"	23'-4"	"	"	19'-8 1/8"	31'-0"	"	"	27'-7 1/8"	38'-8"	"	"	35'-7"
		6'	5'-3 1/2"	8'-2"	8'-5 1/2"	9'-0"	3'-2 1/8"	15'-11"	16'-5 3/8"	17'-0 1/8"	11'-2 1/8"	23'-8"	24'-4"	25'-0 1/8"	19'-2 1/8"	31'-5"	32'-6 1/8"	33'-0 1/8"	27'-3"	39'-2"	40'-6 1/8"	41'-1"	35'-3 1/2"
		7'	6'-5 1/2"	8'-3"	8'-6 1/2"	9'-1"	2'-0 1/8"	16'-1"	16'-7 1/8"	17'-2 1/8"	10'-2"	23'-11"	24'-9 1/8"	25'-3 1/2"	18'-3 1/8"	31'-9"	32'-10 1/8"	33'-5"	26'-4 1/8"	39'-7"	40'-11 1/8"	41'-6 1/8"	39'-6"
		8'	7'-8 3/8"	8'-4"	8'-7 1/2"	9'-2"	0'-11"	16'-2"	16'-8 1/8"	17'-3 1/8"	9'-0 1/8"	24'-0"	24'-10 1/8"	25'-3 1/2"	17'-1 1/8"	31'-10"	32'-11 1/2"	33'-6"	25'-3"	39'-8"	41'-0 1/8"	41'-7 1/8"	33'-9 1/2"
	8'	4'	3'-7 1/2"	9'-0"	9'-3 3/8"	9'-10 1/8"	5'-8 1/8"	17'-8"	18'-3 1/8"	18'-10"	14'-8"	26'-4"	27'-3 1/8"	27'-10 1/2"	23'-7 1/8"	35'-0"	36'-12 1/8"	36'-9 1/8"	32'-7 1/8"	43'-8"	45'-2 1/2"	45'-9"	41'-7"
		5'	4'-5 3/8"	9'-2"	9'-5 1/2"	10'-0 1/8"	5'-0 1/8"	17'-11"	18'-6 1/8"	19'-1"	14'-1 1/2"	26'-8"	27'-7 1/8"	28'-1 1/2"	23'-2"	35'-5"	36'-8"	37'-2 1/2"	32'-2 1/8"	44'-2"	45'-8 1/2"	46'-3 1/8"	41'-3 1/8"
		6'	5'-3 1/2"	9'-2"	"	"	4'-3 1/8"	17'-11"	"	"	13'-3 1/8"	26'-8"	"	"	22'-4"	36'-5"	"	"	31'-9 1/8"	44'-2"	"	"	40'-5 1/2"
		7'	6'-5 1/2"	9'-3"	9'-6 1/2"	10'-1 1/8"	3'-1"	18'-1"	18'-8 1/8"	19'-3"	12'-2 1/8"	26'-11"	27'-10 1/8"	28'-4 1/2"	21'-4 1/2"	35'-9"	37'-0 1/2"	37'-6 1/2"	30'-6 1/2"	44'-7"	46'-1 1/2"	46'-8 1/2"	39'-8"
		8'	7'-8 3/8"	9'-4"	9'-7"	10'-2 1/2"	1'-11 1/2"	18'-2"	18'-9 1/2"	19'-4 1/2"	11'-1 1/8"	27'-0"	27'-11 1/2"	28'-5 1/8"	20'-3 1/2"	35'-10"	37'-1 1/2"	37'-7 1/2"	29'-1 1/2"	44'-8"	46'-2 1/2"	46'-9 1/2"	38'-6 1/2"
	9'	5'	4'-5 3/8"	10'-2"	10'-6 1/2"	11'-0 1/8"	6'-1"	19'-11"	20'-7 1/2"	21'-2"	16'-2"	29'-8"	30'-8 1/2"	31'-3"	26'-3 1/2"	39'-5"	40'-9 1/2"	41'-4 1/2"	36'-9 1/2"	49'-2"	50'-10 1/2"	51'-5 1/2"	46'-5 1/2"
		6'	5'-3 1/2"	10'-3"	10'-7 3/8"	11'-1 3/8"	5'-9 1/8"	20'-1"	20'-9 1/2"	21'-4"	15'-6 1/8"	29'-11"	30'-11 1/8"	31'-6"	25'-8 1/2"	39'-9"	41'-1 1/2"	41'-8 1/8"	35'-10 1/2"	49'-7"	51'-4"	51'-10 1/2"	46'-0 1/8"
		7'	6'-5 1/2"	10'-3"	"	"	4'-7 1/2"	20'-1"	"	"	14'-9 3/8"	29'-11"	"	"	24'-5 1/8"	39'-9"	"	"	34'-1 8"	49'-7"	"	"	44'-1 1/8"
		8'	7'-8 3/8"	10'-4"	10'-8 3/8"	11'-2 3/8"	2'-11 3/8"	20'-2"	20'-10 1/2"	21'-5"	13'-2"	30'-0"	31'-0 3/8"	31'-7 1/8"	23'-9 1/8"	39'-10"	41'-2 1/2"	41'-9 1/8"	33'-4 1/8"	49'-8"	51'-5"	51'-11 1/2"	43'-3 1/8"
	10'	5'	4'-5 3/8"	11'-2"	11'-6 1/2"	12'-1 1/8"	7'-1 1/8"	21'-11"	22'-8 1/8"	23'-3 1/8"	18'-9"	32'-8"	33'-9 1/2"	34'-4 1/8"	29'-4 1/8"	43'-5"	44'-11 1/2"	45'-6"	40'-6"	54'-2"	56'-1"	56'-7 1/2"	51'-7 1/2"
		6'	5'-3 1/2"	11'-3"	11'-7 3/8"	12'-2 1/8"	6'-9 1/8"	22'-1"	22'-10 1/8"	23'-4 1/8"	17'-7 1/8"	32'-11"	34'-1"	34'-7 1/2"	28'-3 1/8"	43'-9"	45'-3 1/2"	45'-10"	40'-0 1/8"	54'-7"	56'-6"	57'-0 1/2"	51'-3"
		7'	6'-5 1/2"	11'-3"	"	"	5'-7 1/2"	22'-1"	"	"	16'-6 1/8"	32'-11"	"	"	27'-1"	43'-9"	"	"	38'-3 1/8"	54'-7"	"	"	50'-0 1/8"
		8'	7'-8 3/8"	11'-4"	11'-8 3/8"	12'-3 1/8"	4'-0 1/8"	22'-2"	22'-11 1/2"	23'-5 1/8"	15'-2 1/8"	33'-0"	34'-2"	34'-8 1/2"	26'-5 1/8"	43'-10"	45'-4 1/2"	45'-11"	37'-8"	54'-8"	56'-7 1/2"	57'-1 1/2"	48'-10 1/2"
	11'	6'	5'-3 1/2"	12'-0"	12'-3 1/2"	12'-9 1/2"	7'-6"	24'-2"	25'-0 1/2"	25'-6 1/2"	19'-9"	36'-0"	37'-3 1/2"	37'-9 1/2"	32'-0"	47'-10"	49'-6 1/2"	50'-0 1/2"	44'-3"	—	—	—	—
		7'	6'-5 1/2"	12'-0"	"	"	6'-3 1/2"	24'-2"	"	"	18'-6 1/2"	36'-0"	"	"	30'-9 1/2"	47'-10"	"	"	43'-0 1/2"	—	—	—	—
		8'	7'-8 3/8"	12'-0"	"	"	5'-0 1/8"	24'-2"	"	"	17'-3 1/8"	36'-0"	"	"	29'-6 1/2"	47'-10"	"	"	41'-9 1/8"	—	—	—	—
	12'	6'	5'-3 1/2"	13'-9"	13'-12 1/8"	14'-0"	8'-6 1/2"	26'-6"	27'-1"	27'-7 1/2"	21'-10"	39'-0"	40'-6 1/2"	40'-11"	35'-1 1/8"	51'-10"	53'-8"	54'-2 1/2"	48'-9 1/2"	—	—	—	—
		7'	6'-5 1/2"	13'-9"	"	"	7'-3 1/2"	26'-6"	"	"	20'-7 1/2"	39'-0"	"	"	33'-10 1/2"	51'-10"	"	"	46'-7 1/2"	—	—	—	—
		8'	7'-8 3/8"	13'-9"	"	"	6'-1"	26'-6"	"	"	19'-4 1/2"	39'-0"	"	"	32'-8"	51'-10"	"	"	45'-11 1/2"	—	—	—	—
W-X152-2, W-X153-2 OR W-X154-2 (FOR H=9'0" & OVER)	7'	9'	8'-11 1/8"	8'-6"	8'-9 3/8"	9'-4"	Ⓐ 0"	16'-5"	17'-0"	17'-6 1/2"	8'-0 1/8"	24'-4"	25'-2 1/2"	25'-8 1/8"	16'-3"	32'-8"	33'-4 1/2"	33'-11"	24'-5 1/2"	40'-2"	41'-7"	42'-1 1/2"	32'-7 1/8"
	8'	9'	8'-11 1/2"	9'-6"	9'-10"	10'-4 1/2"	0'-10 3/8"	18'-5"	19'-0 1/8"	19'-7 1/8"	10'-1 1/2"	27'-4"	28'-3 1/8"	28'-10"	19'-4 1/8"	36'-3"	37'-4 1/2"	38'-0 1/8"	28'-7"	45'-2"	46'-9 1/8"	47'-3 1/8"	37'-9 1/8"
		10'	10'-2"	9'-8"	10'-0 1/8"	10'-6 1/2"	Ⓐ 0"	18'-8"	19'-3 1/8"	19'-10 1/8"	9'-2"	27'-8"	28'-7 1/8"	29'-2 1/8"	18'-5 1/8"	36'-8"	37'-11 1/2"	38'-6"	27'-3 1/2"	45'-8"	47'-3 1/8"	47'-9 1/8"	37'-1 1/2"
	9'	9'	8'-11 1/8"	10'-6"	10'-10 1/8"	11'-5"	1'-11 1/8"	20'-5"	21'-1 1/8"	21'-8 1/8"	12'-2 1/2"	30'-4"	31'-5 1/8"	31'-11 1/2"	22'-5 1/2"	40'-3"	41'-8"	42'-2 1/2"	32'-8 1/2"	50'-2"	51'-11 1/2"	52'-5 1/2"	43'-0"
		10'	10'-2"	10'-8"	11'-0 1/2"	11'-7"	0'-10 1/8"	20'-8"	21'-3 1/8"	21'-11 1/8"	11'-2 1/8"	30'-8"	31'-9"	32'-3 1/2"	21'-7"	40'-8"	42'-1 1/2"	42'-7 1/8"	31'-11 1/2"	50'-8"	52'-5 1/2"	53'-0"	42'-3 1/2"
		11'	11'-0 3/8"	10'-10"	11'-2 1/8"	11'-9"	Ⓐ 0"	20'-10"	21'-6 1/8"	22'-1 1/8"	10'-2 1/8"	30'-10"	31'-11"	32'-5 1/2"	20'-4 1/2"	40'-10"	42'-3 1/8"	42'-9 1/8"	30'-10 1/8"	50'-10"	52'-7 1/2"	53'-2"	41'-2 1/8"
	10'	9'	8'-11 1/8"	11'-4"	11'-10 3/8"	12'-5 1/8"	2'-11 1/8"	22'-5"	23'-1 1/2"	23'-9"	14'-3 1/8"	33'-8"	34'-7 1/8"	35'-0 1/2"	25'-6 1/8"	44'-3"	45'-9 1/2"	46'-4 1/2"	36'-10 1/8"	55'-2"	57'-1 1/8"	57'-7 1/2"	48'-1 2"
		10'	10'-2"	11'-8"	12'-1"	12'-7 1/2"	1'-11"	22'-8"	23'-4 1/2"	24'-0"	13'-2 1/8"	33'-8"	34'-10 1/8"	35'-4 1/2"	26'-8 1/8"	44'-8"	46'-2 1/2"	46'-9 1/2"	34'-7"	55'-8"	57'-7 1/2"	58'-2"	47'-5 1/2"
		11'	11'-0 3/8"	11'-10"	12'-3"	12'-9 3/8"	0'-10 1/8"	22'-10"	23'-7 1/8"	24'-2"	12'-3"	33'-10"	35'-0 1/8"	35'-6 1/2"	23'-7 1/8"	44'-10"	46'-5"	46'-11 1/8"	35'-0 1/8"	55'-10"	57'-10 1/2"	58'-4"	46'-5"
		12'	12'-7 3/8"	12'-0"	12'-5 1/8"	12'-11 1/8"	Ⓐ 0"	23'-0"	23'-9 1/8"	24'-4 1/8"	11'-2 1/8"	34'-0"	35'-2 1/8"	35'-8 1/2"	22'-7"	45'-0"	46'-7"	47'-1 1/2"	33'-10 1/2"	56'-0"	57'-11 1/2"	58'-6"	45'-9 1/2"
	11'	9'	8'-11 1/8"	12'-6"	12'-10 1/2"	13'-5 1/8"	4'-0"	24'-5"	25'-3 1/8"	25'-9 1/8"	16'-4"	36'-4"	37'-7 1/8"	38'-1 3/8"	28'-8"	48'-3"	49'-10 1/8"	50'-5 1/8"	41'-0 1/2"	—	—	—	—
		10'	10'-2"	12'-8"	13'-1 1/8"	13'-7 1/8"	2'-11 1/8"	24'-8"	25'-6 1/2"	26'-1"	15'-2 1/8"	36'-8"	37'-11 1/2"	38'-6"	27'-9 1/2"	48'-8"	50'-4 1/8"	50'-11"	40'-2 1/2"	—	—	—	—
		11'	11'-0 3/8"	12'-10"	13'-3 1/8"	13'-10"	1'-10 1/8"	24'-10"	25'-8 1/8"	26'-3"	14'-3 1/8"	36'-10"	38'-1 1/8"	38'-8"	26'-9"	48'-10"	50'-6 1/8"	51'-1"	39'-1 2"	—	—	—	—
		12'	12'-7 3/8"	13'-0"	13'-5 1/8"	14'-0"	0'-10 1/8"	25'-0"	25'-10 1/8"	26'-5"	13'-3 1/8"	37'-0"	38'-3 1/8"	38'-10"	25'-8 1/8"	49'-0"	50'-8 1/8"	51'-3 1/8"	38'-1 1/2"	—	—	—	—
	12'	9'	8'-11 1/8"	13'-6"	13'-11 1/8"	14'-6 1/8"	5'-0 1/2"	26'-5"	27'-2 1/8"	27'-10 1/8"	18'-5"	39'-4"	40'-8 1/8"	41'-3"	31'-3 1/2"	52'-3"	54'-1 1/8"	54'-7 1/2"	45'-1 1/8"	—	—	—	—
		10'	10'-2"	13'-8"	14'-1 1/8"	14'-8 1/8"	3'-11 1/8"	26'-8"	27'-7 1/8"	28'-1 1/8"	17'-5 1/8"	39'-8"	41'-0 1/8"	41'-7 1/2"	30'-10 1/8"	52'-8"	54'-6 1/8"	55'-0 1/8"	42'-9 1/8"	—	—	—	—
		11'	11'-0 3/8"	13'-10"	14'-3 1/8"	14'-10 1/8"	2'-11 1/8"	26'-10"	27'-9 1/8"	28'-3 1/8"	16'-0 1/8"	39'-10"	41'-2 1/8"	41'-9 1/8"	29'-10 1/8"	52'-10"	54'-8 1/8"	55'-2 1/8"	40'-3 1/8"	—	—	—	—
		12'	12'-7 3/8"	14'-0"	14'-5 1/8"	15'-0 1/8"	1'-10 1/8"	27'-0"	27'-11 1/8"	28'-6"	15'-0"	40'-0"	41'-4 1/8"	41'-11 1/8"	28'-3 1/8"	53'-0"	54'-10 1/8"	55'-5 1/8"	38'-5"	—	—	—	—

Ⓐ Special case for these boxes, See Detail "A" and Table "A" for revised values of F_1, F_2, W_4 and W_5, when apron width is more than 1'-0 and $W_3 = 0$. For Detail "A" and Table "A" for each slope, see Drawing Nos. W-X152-1, W-X152-2, or W-X153-1, W-X153-2, or W-X154-1, W-X154-2.

NOTE:- This drawing to be used in conjunction with Standard Wing Drawings for 15° skews for each slope as listed below.

2:1 Slopes	3:1 Slopes	4:1 Slopes
W-X152-1 or W-X152-2	W-X153-1 or W-X153-2	W-X154-1 or W-X154-2.

This drawing to be used in conjunction with Std. Barrel Sections, Drawing Nos.

SINGLES	DOUBLES	TRIPLES	QUADRUPLES	QUINTUPLES
R-115X-0	R-215X-0	R-315X-0	R-415X-0	R-515X-0
R-115X-1	R-215X-1	R-315X-1	R-415X-1	R-515X-1
	R-215X-2	R-315X-2		

CLASS S CONCRETE

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF STANDARD WINGS FOR REINFORCED CONCRETE BOX CULVERTS 15° SKEW

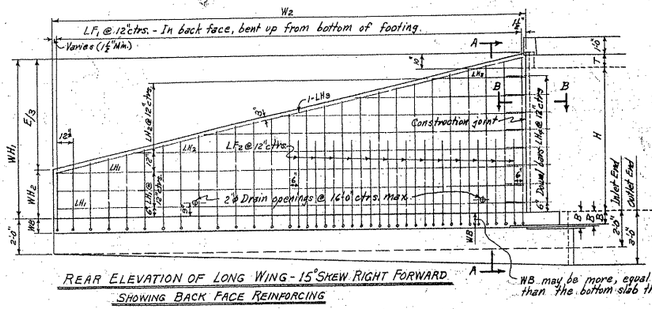
4', 5', 6', 7', 8', 9', 10', 11' & 12' SPANS — 2:1, 3:1 & 4:1 SLOPES

SINGLES, DOUBLES, TRIPLES, QUADRUPLES & QUINTUPLES. — ALL DEPTHS OF COVER H=2', 3', 4', 5', 6', 7', 8', 9', 10', 11' & 12'.

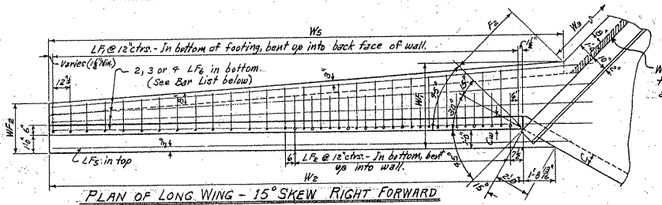
STANDARD DRAWING NO. W-X15

Designed by:- W.C.H. 5-22-63 Checked by:- Checked by:- J.E.M. 6-20-63 Checked by:-
Traced by:- W.C.H. 6-13-63 Quantities by:-

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					

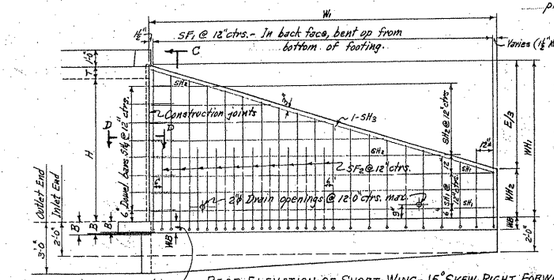


REAR ELEVATION OF LONG WING - 15° SKEW RIGHT FORWARD
SHOWING BACK FACE REINFORCING

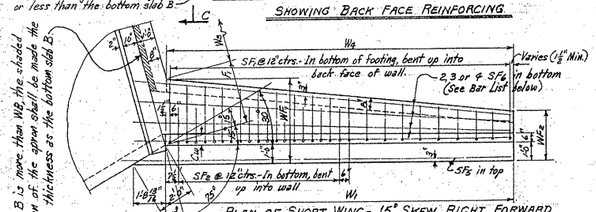


PLAN OF LONG WING - 15° SKEW RIGHT FORWARD
SHOWING FOOTING REINFORCING.

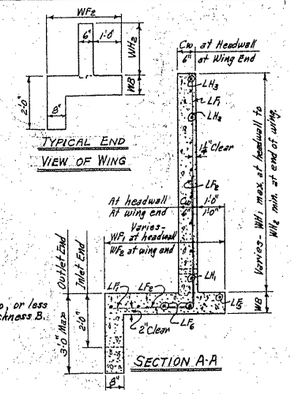
NOTE:- Payment for membrane waterproofing and roofing felt to be included in the price bid for Class S Concrete.

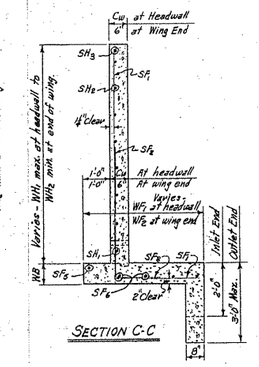


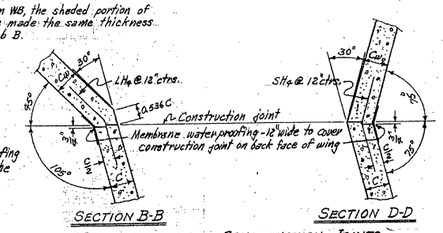
REAR ELEVATION OF SHORT WING - 15° SKEW RIGHT FORWARD
SHOWING BACK FACE REINFORCING



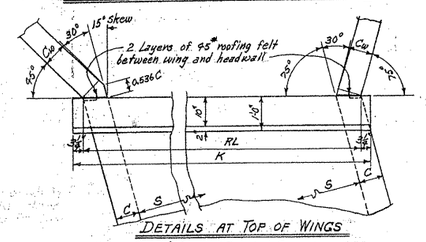
PLAN OF SHORT WING - 15° SKEW RIGHT FORWARD
SHOWING FOOTING REINFORCING







SECTIONS THRU CONSTRUCTION JOINTS



DETAILS AT TOP OF WINGS
15° SKEW RIGHT FORWARD

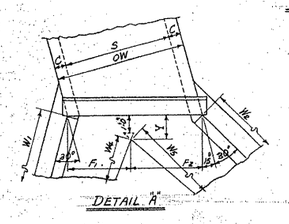


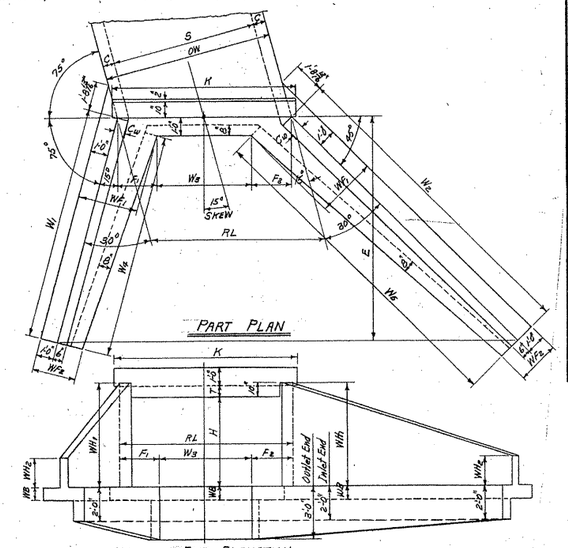
TABLE "A" - DIMENSIONS FOR DETAIL "A"

S	H	F1	F2	W4	W5	W3	Y
5'	7'	3'-0"	3'-5 5/16"	16'-10 1/16"	25'-0 3/16"	0"	1'-0 1/16"
6'	8'	3'-6"	4'-1 1/8"	19'-0 9/16"	28'-3 7/16"	0"	1'-1"

REGULAR WING DIMENSIONS - 3:1 SLOPES

CLEAR HEIGHT OF BOX	THICKNESS OF WING FOOTING	THICKNESS OF WING AT HEADWALL	WINGWALL HEIGHTS AT HEADWALL	WINGWALL HEIGHTS AT END OF WING	WIDTHS OF WING FOOTINGS AT HEADWALL	WIDTHS OF WING FOOTINGS AT END OF WING	FOOTING DIMENSION PARALLEL WITH HEADWALL SHORT WING	FOOTING DIMENSION PARALLEL WITH HEADWALL LONG WING	PERPENDICULAR DIST. FROM HDWL. TO END OF WING	LENGTHS OF WINGWALLS SHORT WING	LENGTHS OF WINGWALLS LONG WING	INSIDE FOOTING DIMENSIONS SHORT WING	INSIDE FOOTING DIMENSIONS LONG WING	* QUANTITY PER WING CLASS S CONCRETE INLET END SHORT WING	INLET END LONG WING	OUTLET END SHORT WING	OUTLET END LONG WING
H	WB	Cw	WH1	WH2	WF1	WF2	F1	F2	E	W1	W2	W4	W5	Cu.Yd.	Cu.Yd.	Cu.Yd.	Cu.Yd.
2'	7"	6"	2'-10"	0'-8"	2'-4"	2'-0"	1'-1 3/8"	0'-10 3/8"	6'-6"	6'-8 3/8"	9'-2 1/8"	6'-0 5/8"	9'-1 1/8"	0.789	1.094	0.876	1.212
3'	7"	6"	3'-10"	1'-0"	2'-8"	2'-1 1/8"	1'-5 1/8"	1'-4 1/8"	8'-6"	8'-3 1/8"	12'-0 1/8"	8'-2 5/8"	12'-3 1/8"	1.186	1.650	1.300	1.808
4'	7"	6"	4'-10"	1'-4"	3'-0"	2'-3"	1'-9 5/8"	1'-1'0"	10'-6"	10'-10 1/8"	14'-10 1/8"	10'-4 1/8"	15'-5 1/8"	1.656	2.305	1.797	2.502
5'	7"	6"	5'-10"	1'-8"	3'-4"	2'-4 1/2"	2'-1 3/8"	2'-3 3/8"	12'-6"	12'-11 1/8"	17'-8 1/2"	12'-6 1/8"	18'-7 1/8"	2.196	3.059	2.343	3.295
		7"	5'-10"	1'-8"	3'-4"	2'-4 1/2"	2'-1 3/8"	2'-3 3/8"	12'-6"	12'-11 1/8"	17'-8 1/2"	12'-6 1/8"	18'-7 1/8"	2.287	3.188	2.455	3.424
6'	8"	7"	6'-8"	2'-0"	3'-8"	2'-6"	2'-5 3/8"	2'-9 3/8"	14'-6"	15'-0 1/8"	20'-6"	14'-8 1/8"	21'-9"	3.052	4.242	3.296	4.517
		7 1/2"	6'-10"	2'-0"	3'-8"	2'-6"	2'-5 3/8"	2'-9 3/8"	14'-6"	15'-0 1/8"	20'-6"	14'-8 1/8"	21'-9"	3.114	4.329	3.309	4.605
		8"	6'-10"	2'-0"	3'-8"	2'-6"	2'-5 3/8"	2'-9 3/8"	14'-6"	15'-0 1/8"	20'-6"	14'-8 1/8"	21'-9"	3.177	4.417	3.371	4.693
⊗ 7'	8 1/2"	7 1/2"	7'-10"	2'-8"	4'-2"	2'-7 1/2"	3'-0 3/8"	3'-5 3/8"	16'-6"	17'-1"	23'-4"	16'-10 3/8"	25'-1"	3.998	5.560	4.220	5.877
		8"	7'-10"	2'-8"	4'-2"	2'-7 1/2"	3'-0 3/8"	3'-5 3/8"	16'-6"	17'-1"	23'-4"	16'-10 3/8"	25'-1"	4.079	5.675	4.301	5.991
⊗ 8'	9"	8"	8'-10"	2'-8"	4'-8"	2'-9"	3'-6 3/8"	4'-2 3/8"	18'-6"	19'-1 3/8"	26'-2"	19'-1 1/8"	28'-5"	5.111	7.111	5.360	7.470

* Quantity per wing does not include headwall or that portion of apron or toewall for the length W_5.
⊗ See Table "A" for special values of F_1 & F_2 and W_4 & W_5 for Single 5'x7' and 6'x8' Box Culverts.



SINGLE BARREL CULVERT - 15° SKEW RIGHT FORWARD
Details of Culvert with 15° Skew Left Forward is reversed, see Drwg. No. W-X.15

TYPICAL WING DETAILS

NOTE:- For remainder of General Plans and Elevations of Single, Double, Triple, Quadruple and Quintuple Span Culverts, see Std. Drawing No. W-X.15. For values of RL, K, and W_3 for each box, see the above Std. also.

MEMBRANE:- A membrane waterproofing 18" wide, consisting of three moppings of waterproofing asphalt and two alternate layers of treated cotton fabric shall be applied to the back face of wing to cover the construction joints in wings.

QUANTITIES

CLEAR SPAN S	CLEAR HEIGHT H	THICKNESS OF WING AT HEADWALL Cw	THICKNESS OF WING FOOTING WB	⊗ REINFORCING STEEL - LB.	CLASS S CONCRETE - 4 WINGS HEADWALLS, WINGWALLS, FOOTINGS, TOEWALLS AND APRONS: SINGLE BARREL CULVERT Cu.Yd.	DOUBLE BARREL CULVERT Cu.Yd.	TRIPLE BARREL CULVERT Cu.Yd.	QUADRUPLE BARREL CULVERT Cu.Yd.	QUINTUPLE BARREL CULVERT Cu.Yd.
4'	2'	6"	7"	117	4.79	5.78	6.77	7.77	8.76
	3'	6"	7"	176	6.65	7.64	8.63	9.63	10.62
	4'	6"	7"	267	8.85	9.84	10.84	11.83	12.82
	5'	6"	7"	379	11.40	12.38	13.38	14.37	15.36
	6'	7"	8"	626	15.95	16.96	17.98	18.51	19.53
5'	3'	6"	7"	176	6.87	8.07	9.28	10.48	11.69
	4'	6"	7"	267	9.08	10.28	11.48	12.69	13.90
	5'	6"	7"	379	11.61	12.81	14.02	15.23	16.44
	6'	7"	8"	626	15.67	16.90	18.14	19.38	20.61
	7'	7 1/2"	8 1/2"	1210	20.11	21.34	22.62	23.88	25.14
6'	3'	6"	7"	176	7.09	8.52	9.92	11.36	12.78
	4'	6"	7"	267	9.29	10.73	12.13	13.56	14.98
	5'	6"	7"	379	11.83	13.26	14.67	16.10	17.53
	6'	7"	8"	626	15.89	17.35	18.79	20.25	21.70
	7'	7 1/2"	8 1/2"	1210	20.33	21.81	23.28	24.76	26.24
	8'	8"	9"	1533	25.56	27.05	28.53	30.02	31.50
7'	4'	6"	7"	267	9.52	11.18	12.81	14.47	16.09
	5'	6"	7"	379	12.05	13.72	15.35	17.01	18.63
	6'	7"	8"	626	16.12	17.80	19.45	21.13	22.78
	7'	7 1/2"	8 1/2"	1210	20.56	22.26	23.94	25.64	27.33
	8'	8"	9"	1533	25.80	27.50	29.20	30.90	32.60
8'	4'	6"	7"	267	9.75	11.65	13.51	15.41	17.23
	5'	7"	7"	379	12.74	14.68	16.55	18.47	20.31
	6'	7"	8"	626	16.34	18.26	20.14	22.06	23.90
	7'	7 1/2"	8 1/2"	1210	20.78	22.72	24.62	26.55	28.42
	8'	8"	9"	1533	26.03	27.96	29.86	31.80	33.71
9'	5'	7"	7"	379	12.99	15.15	17.25	19.40	21.45
	6'	7 1/2"	8"	626	16.89	18.07	21.19	23.34	25.42
	7'	7 1/2"	8 1/2"	1210	21.01	23.19	25.31	27.48	29.58
	8'	8"	9"	1533	26.25	28.42	30.55	32.72	34.78
10'	5'	7"	7"	379	13.23	16.62	17.95	20.24	22.59
	6'	7 1/2"	8"	626	17.19	19.54	21.89	24.20	26.56
	7'	7 1/2"	8 1/2"	1210	21.44	23.66	26.01	28.32	30.68
	8'	8"	9"	1533	26.48	28.89	31.25	33.56	35.92
11'	6'	8"	8"	626	17.67	20.34	22.92	25.98	——
	7'	8"	8 1/2"	1210	21.88	24.55	27.13	29.69	——
	8'	8"	9"	1533	26.70	29.37	31.94	34.52	——
12'	6'	8"	8"	626	17.91	20.84	23.64	26.96	——
	7'	8"	8 1/2"	1210	22.11	25.04	27.85	30.67	——
	8'	8"	9"	1533	26.93	29.86	32.67	35.99	——

⊗ For reinforcing steel in Headwalls and Aprons, see Drawings listed below.

GENERAL NOTES:-

CONCRETE:- All concrete to be Class S, and shall be poured in the dry. All exposed corners to have ¾" chamfers.

REINFORCING STEEL:- Reinforcing steel to be deformed bars of intermediate or hard grade.

CONSTRUCTION JOINTS:- Construction joints between wingwall, footings and sidewalls shall be only where shown on plans.

SPECIFICATIONS:- Arkansas State Highway Commission Standard Specifications for Highway Construction and applicable special Provisions.

UNIT STRESSES:-
Class S Concrete (n=10) 1200 #/□"
Reinforcing Steel 20,000 #/□"

NOTE:-
This drawing to be used in conjunction with Std. Barrel Sections, Drawing Nos.

SINGLES	DOUBLES	TRIPLES	QUADRUPLES	QUINTUPLES
R-115X-0	R-215X-0	R-315X-0	R-415X-0	R-515X-0
R-115X-1	R-215X-1	R-315X-1	R-415X-1	R-515X-1
	R-215X-2	R-315X-2		

BAR LIST FOR ONE SHORT AND ONE LONG WING - 2 EACH REQUIRED

CLEAR HEIGHT H	WING LOCATION	SF1 & LF1 BENT: In bottom of footing, bent up into back face of wing. One bar of each length. SIZE	SPACING	No. REQD	LENGTHS VARY MIN.	MAX.	X MIN.	X MAX.	Y MIN.	Y MAX.	SF2 & LF2 BENT: In bottom of footing, bent up into back face of wing. Alt. with F1 bars. SIZE	SPACING	No. REQD	LENGTH	X	Y	SF3 & LF3 STRAIGHT: Longitudinal in top of wing footing heel. SIZE	No. REQD	LENGTH	SF4 & LF4 STRAIGHT: Longitudinal in bottom of wing footing toe. SIZE	No. REQD	LENGTH	SH1 & LH1 STRAIGHT: Horizontal in back face of wing. SIZE	SPACING	No. REQD	LENGTH
2'	Short	#3	12"	7	1'-7"	3'-11"	0'-8"	1'-0"	1'-0"	3'-0"	—	—	—	—	—	—	#3	1	9'-2"	#3	2	7'-10"	#3	12"	1	6'-5"
	Long	#3	12"	10	1'-7"	3'-11"	0'-8"	1'-0"	0'-10"	3'-0"	—	—	—	—	—	—	#3	1	11'-8"	#3	2	10'-10"	#3	12"	1	8'-11"
3'	Short	#3	12"	9	2'-2"	5'-8"	0'-10"	1'-4"	1'-5"	4'-0"	—	—	—	—	—	—	#3	1	11'-3"	#3	2	10'-0"	#3	12"	1	8'-6"
	Long	#3	12"	13	1'-11"	5'-2"	0'-10"	1'-3"	1'-2"	4'-0"	—	—	—	—	—	—	#3	1	14'-6"	#3	2	14'-0"	#3	12"	1	11'-9"
4'	Short	#3	12"	11	2'-7"	6'-7"	0'-11"	1'-0"	1'-9"	5'-0"	—	—	—	—	—	—	#3	1	13'-6"	#3	3	18'-2"	#3	12"	1	10'-7"
	Long	#3	12"	15	2'-6"	6'-6"	0'-11"	1'-7"	1'-8"	5'-0"	—	—	—	—	—	—	#3	1	17'-4"	#3	3	17'-12"	#3	12"	1	14'-7"
5'	Short	#3	12"	13	3'-1"	7'-11"	1'-1"	2'-0"	2'-1"	6'-0"	#3	12"	4	3'-6"	1'-1"	2'-6"	#3	1	15'-5"	#3	3	19'-9"	#3	12"	2	12'-8"
	Long	#3	12"	18	3'-0"	7'-10"	1'-1"	1'-11"	2'-0"	6'-0"	#3	12"	5	3'-6"	1'-1"	2'-6"	#3	1	20'-2"	#3	3	20'-6"	#3	12"	2	17'-5"
6'	Short	#4	12"	16	3'-6"	9'-4"	1'-2"	2'-4"	2'-3"	7'-1"	#3	12"	4	4'-6"	1'-4"	3'-3"	#3	1	17'-6"	#3	3	16'-6"	#3	12"	3	14'-8"
	Long	#4	12"	21	3'-5"	9'-3"	1'-2"	2'-3"	2'-4"	7'-1"	#3	12"	5	4'-6"	1'-4"	3'-3"	#3	1	23'-0"	#3	3	23'-6"	#3	12"	4	19'-5"
7'	Short	#4	12"	18	3'-9"	10'-10"	1'-3"	2'-10"	2'-7"	8'-1"	#4	12"	7	5'-6"	1'-7"	4'-0"	#4	1	19'-7"	#4	4	18'-9"	#4	12"	2	16'-10"
	Long	#4	12"	24	3'-10"	10'-8"	1'-3"	2'-8"	2'-8"	8'-1"	#4	12"	9	5'-6"	1'-7"	4'-0"	#4	1	25'-10"	#4	4	26'-3"	#4	12"	2	23'-1"
8'	Short	#4	12"	20	4'-4"	12'-5"	1'-5"	3'-4"	3'-0"	9'-2"	#4	12"	10	6'-6"	1'-10"	4'-9"	#4	1	21'-8"	#4	4	21'-0"	#4	12"	3	18'-11"
	Long	#4	12"	27	4'-3"	12'-8"	1'-5"	3'-2"	3'-0"	9'-2"	#4	12"	13	6'-6"	1'-10"	4'-9"	#4	1	28'-8"	#4	4	30'-3"	#4	12"	3	25'-11"

SH2 & LH2 STRAIGHT: Horizontal in back face of wing. One bar of each length. SIZE	SPACING	No. REQD	LENGTHS VARY MAX.	MIN.	SH3 & LH3 STRAIGHT: In back face of wing at top - on slope. SIZE	No. REQD	LENGTH	SH4 & LH4 BENT: Dowels thru construction joint at headwall. SIZE	SPACING	No. REQD	LENGTH	X
#8	12"	1	—	3'-6"	#3	1	6'-10"	#3	12"	2	2'-8"	1'-9"
#9	12"	1	—	4'-8"	#3	1	9'-1"	#3	12"	2	"	"
#9	12"	2	6'-7"	3'-6"	#3	1	9'-0"	#3	12"	3	"	"
#9	12"	2	8'-11"	4'-9"	#3	1	12'-0"	#3	12"	3	"	"
#9	12"	2	10'-5"	5'-6"	#3	1	11'-12"	#3	12"	4	"	"
#9	12"	3	18'-2"	9'-8"	#3	1	16'-11"	#3	12"	4	"	"
#9	12"	3	19'-8"	10'-5"	#3	1	17'-11"	#3	12"	5	"	"
#9	12"	3	18'-2"	9'-8"	#3	1	15'-6"	#3	12"	6	"	"
#9	12"	3	19'-8"	10'-5"	#3	1	17'-0"	#3	12"	5	"	"
#9	12"	4	12'-9"	6'-8"	#3	1	20'-9"	#3	12"	6	2'-8"	1'-4"
#9	12"	4	17'-5"	9'-8"	#3	1	17'-8"	#4	12"	7	3'-6"	1'-9"
#9	12"	5	15'-10"	8'-6"	#4	1	17'-8"	#4	12"	7	"	"
#9	12"	5	21'-8"	11'-8"	#4	1	23'-8"	#4	12"	8	"	"
#9	12"	5	15'-10"	8'-6"	#4	1	19'-10"	#4	12"	8	"	"
#9	12"	5	21'-8"	11'-8"	#4	1	26'-7"	#4	12"	9	3'-6"	1'-9"

BAR BENDING DIAGRAM: SF1 & SF2, LF1 & LF2; SH4 & LH4; Note:- Dimensions are to bar centers.

QUANTITY: REINFORCING STEEL PER WING - LBS. SHORT WING	LONG WING
24.9	33.4
37.7	50.3
57.3	76.4
81.1	108.4
134.8	178.1
259.5	345.2
328.0	438.3

NOTE:- Bars for short wing shall be marked with prefix letter "S", while those for long wing shall be marked with letter "L".

REVISIONS:- Membrane Added. 5-10-66 W.C.H.

CLASS S CONCRETE

ARKANSAS STATE HIGHWAY COMMISSION
DETAILS OF STANDARD WINGS
FOR
REINFORCED CONCRETE BOX CULVERTS
15° SKEW

4, 5, 6, 7, 8, 9, 10, 11 & 12 SPANS — 3:1 SLOPES
SINGLES, DOUBLES, TRIPLES, QUADRUPLES & QUINTUPLES — ALL DEPTHS OF COVER FOR H = 8'-0" OR LESS

STANDARD DRAWING NO. W-X153-1

Designed By:- W.C.H. 5-13-63 Checked By:-
Drawn By:- W.C.H. 6-20-63 Checked By:- RWS 8-7-63
Quantities By:- W.C.H. 9-23-63 Checked By:-

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					

BAR LIST FOR VARIOUS SECTIONS OF BARREL

SECTION & BAR GROUP	LENGTH OF SECTIONS	DEPTH OF COVER D	CLEAR SPAN S	CLEAR HEIGHT H	"a" bars STRAIGHT In Top and Bottom Slabs of Barrel. 2 Add'l in Apron and Headwall - Each. SIZE	SPACING	NUMBER REQ'D 3:1	NUMBER REQ'D 4:1	LENGTH	"b" bars BENT - See Diagram at Right. In Top and Bottom Slabs of Barrel. Alternate with "a" bars. SIZE	SPACING	NUMBER REQ'D 3:1	NUMBER REQ'D 4:1	LENGTH	X	"d" bars STRAIGHT Longitudinal in Top Slab of Barrel SIZE	SPACING	No. REQ'D	LENGTH	"d" bars STRAIGHT Longitudinal in Sidewalls SIZE	SPACING	No. REQ'D	LENGTH	"d" bars STRAIGHT Longitudinal in Bottom Slab of Barrel SIZE	SPACING	No. REQ'D	LENGTH	"f" bars STRAIGHT Verticals in Sidewalls SIZE	SPACING	NUMBER REQ'D 3:1	NUMBER REQ'D 4:1	LENGTH
SECTION "A" & BAR GROUP "A"	4:1 = 32'-0"	10'-0" TO 0'	1 @ 7'	5'	#5	12"	48	68	7'-9"	#6	12"	44	64	8'-10"	7'-8"	#4	12"	8		#4	12"	10		#4	12"	8		#4	12"	8		12"	44	64	6'-1"
				6'			48	68	7'-11"			44	64	9'-0"	7'-10"			12				14				8				8		14"	44	64	7'-1"
				7'			48	68	8'-0"			44	64	9'-7"	7'-11"			14				16				8				8		11"	48	70	8'-1"
				8'			48	68	8'-1"			44	64	9'-9"	8'-0"			16				18				8				8		12"	44	64	9'-1"
				9'			48	68	8'-3"			44	64	9'-9"	8'-2"			18								8				8		11"	48	70	10'-1"
			1 @ 8'	6'	#6	12"	48	68	8'-11"	#6	12"	44	64	10'-0"	8'-10"	#4	12"	9		#4	12"	12		#4	12"	9		#4	12"	9		12"	44	64	7'-3"
				7'			48	68	9'-0"			44	64	10'-1"	8'-11"			9				14				9				9		12"	44	64	8'-3"
				8'			48	68	9'-7"			44	64	10'-2"	9'-0"			9				16				9				9		12"	44	64	9'-5"
				9'			48	68	9'-9"			44	64	10'-4"	9'-2"			9				18				9				9		11"	48	70	10'-3"
				10'			48	68	9'-5"			44	64	10'-6"	9'-4"			9				20				9				9		10"	54	78	11'-8"
			1 @ 8'	7'	#6	11"	52	74	10'-0"	#7	11"	48	70	11'-5"	9'-11"	#4	12"	10		#4	12"	14		#4	12"	10		#4	12"	10		12"	44	64	8'-5"
				8'			52	74	10'-1"			48	70	11'-6"	10'-2"			10				16				10				10		12"	44	64	9'-5"
				9'			52	74	10'-3"			48	70	11'-8"	10'-4"			10				18				10				10		11"	48	70	10'-5"
				10'			52	74	10'-5"			48	70	11'-10"	10'-6"			10				20				10				10		10"	54	78	11'-5"
				11'			52	74	10'-7"			48	70	11'-10"	10'-6"			10				22				10				10		12"	44	64	12'-5"
			1 @ 10'	8'	#7	12"	48	68	11'-1"	#7	12"	44	64	12'-4"	11'-0"	#4	12"	11		#4	12"	16		#4	12"	11		#4	12"	11		12"	44	64	9'-7"
				9'			48	68	11'-3"			44	64	12'-6"	11'-2"			11				18				11				11		12"	44	64	10'-7"
				10'			48	68	11'-5"			44	64	12'-8"	11'-4"			11				20				11				11		10"	54	78	11'-7"
				11'			48	68	11'-7"			44	64	12'-10"	11'-6"			11				22				11				11		12"	44	64	12'-7"
				12'			48	68	11'-9"			44	64	13'-0"	11'-8"			11				24				11				11		11"	48	70	13'-7"
SECTION "B" & BAR GROUP "B"	4:1 = 16'-0"	15'-0" TO 10'-0"	1 @ 7'	5'	#6	11"	24	36	7'-9"	#6	11"	24	34	8'-10"	7'-8"	#4	12"	8		#4	12"	10		#4	12"	8		#4	12"	8		12"	22	32	6'-8"
				6'			24	36	7'-11"			24	34	9'-0"	7'-10"			12				12				8				8		12"	22	32	7'-9"
				7'			24	36	8'-0"			24	34	9'-7"	7'-11"			14				14				8				8		12"	22	32	8'-8"
				8'			24	36	8'-1"			24	34	9'-9"	8'-0"			16				16				8				8		12"	22	32	9'-7"
				9'			24	36	8'-3"			24	34	9'-9"	8'-2"			18				18				8				8		12"	22	32	10'-5"
			1 @ 8'	6'	#7	12"	22	32	8'-11"	#6	12"	22	32	10'-0"	8'-10"	#4	12"	9		#4	12"	12		#4	12"	9		#4	12"	9		12"	22	32	7'-5"
				7'			22	32	9'-0"			22	32	10'-1"	8'-11"			9				14				9				9		12"	22	32	8'-5"
				8'			22	32	9'-1"			22	32	10'-2"	9'-0"			9				16				9				9		10"	28	40	9'-5"
				9'			22	32	9'-3"			22	32	10'-4"	9'-2"			9				18				9				9		12"	22	32	10'-5"
				10'			22	32	9'-5"			22	32	10'-6"	9'-4"			9				20				9				9		10"	28	40	11'-5"
			1 @ 8'	7'	#7	12"	22	32	10'-0"	#7	12"	22	32	11'-3"	9'-11"	#4	12"	10		#4	12"	14		#4	12"	10		#4	12"	10		12"	22	32	8'-7"
				8'			22	32	10'-1"			22	32	11'-5"	10'-1"			10				16				10				10		12"	22	32	9'-5"
				9'			22	32	10'-3"			22	32	11'-6"	10'-2"			10				18				10				10		12"	22	32	10'-3"
				10'			22	32	10'-5"			22	32	11'-8"	10'-4"			10				20				10				10		10"	28	40	11'-3"
				11'			22	32	10'-7"			22	32	11'-10"	10'-6"			10				22				10				10		12"	22	32	12'-1"
			1 @ 10'	8'	#8	12"	22	32	11'-1"	#7	12"	22	32	12'-4"	11'-0"	#4	12"	12		#4	12"	16		#4	12"	12		#4	12"	12		12"	22	32	9'-9"
				9'			22	32	11'-3"			22	32	12'-6"	11'-2"			12				18				12				12		12"	22	32	10'-9"
				10'			22	32	11'-5"			22	32	12'-8"	11'-4"			12				20				12				12		11"	24	34	11'-9"
				11'			22	32	11'-7"			22	32	12'-10"	11'-6"			12				22				12				12		12"	22	32	12'-9"
				12'			22	32	11'-9"			22	32	13'-0"	11'-8"			12				24				12				12		11"	24	36	13'-9"
SECTION "C" & BAR GROUP "C"	4:1 = 16'-0"	20'-0" TO 15'-0"	1 @ 7'	5'	#7	13"	20	30	7'-9"	#7	13"	20	30	9'-0"	7'-8"	#4	12"	8		#4	12"	10		#4	12"	8		#4	12"	8		12"	22	32	6'-5"
				6'			20	30	7'-11"			20	30	9'-2"	7'-10"			12				12				8				8		12"	22	32	7'-5"
				7'			20	30	8'-0"			20	30	9'-3"	7'-11"			14				14				8				8		10"	28	38	8'-5"
				8'			20	30	8'-1"			20	30	9'-4"	8'-0"			16				16				8				8		12"	24	36	9'-5"
				9'			20	30	8'-3"			20	30	9'-6"	8'-2"			18				18				8				8		12"	22	32	10'-5"
			1 @ 8'	6'	#8	12"	22	32	8'-11"	#7	12"	22	32	10'-2"	8'-10"	#4	11"	10		#4	12"	12		#4	11"	10		#4	11"	10		10"	28	40	7'-7"
				7'			22	32	9'-0"			22	32	10'-3"	8'-11"			10				14				10				10		10"	28	40	8'-7"
				8'			22	32	9'-2"			22	32	10'-5"	9'-1"			10				16				10				10		12"	22	32	9'-7"
				9'			22	32	9'-3"			22	32	10'-6"	9'-2"			10				18				10				10		10"	28	38	10'-7"
				10'			22	32	9'-5"			22	32	10'-8"	9'-4"			10				20				10				10		12"	22	32	11'-7"
			1 @ 8'	7'	#8	12"	22	32	10'-1"	#7	12"	22	32	11'-4"	10'-0"	#4	11"	11		#4	12"	14		#4	11"	11		#4	11"	11		12"	22	32	8'-10"
				8'			22	32	10'-3"			22	32	11'-5"	10'-1"			11				16				11				11		12"	22	32	9'-10"
				9'			22	32	10'-3"			22	32	11'-6"	10'-2"			11				18				11				11		10"	28	38	10'-7"
				10'			22	32	10'-5"			22	32	11'-8"	10'-4"			11				20				11				11		12"	22	32	11'-7"
				11'			22	32	10'-7"			22	32	11'-10"	10'-6"			11				22				11				11		12"	22	32	12'-7"
			1 @ 10'	8'	#8	12"	22	32	11'-1"	#7	12"	22	32	12'-4"	11'-0"	#4	11"	12		#4	12"	16		#4	11"	12		#4	11"	12		12"	22	32	9'-9"
				9'			22	32	11'-3"			22	32	12'-6"	11'-2"			12				18				12				12		12"	22	32	10'-9"
				10'			22	32	11'-5"			22	32	12'-8"	11'-4"			12				20				12				12		11"	24	34	11'-9"
				11'			22	32	11'-7"			22	32	12'-10"	11'-6"			12				22				12				12		12"	22	32	12'-9"
				12'			22	32	11'-9"			22	32	13'-0"	11'-8"			12				24				12				12		11"	24	36	13'-9"
SECTION "D" & BAR GROUP "D"	4:1 = 16'-0"	25'-0" TO 20'-0"	1 @ 7'	5'			20	30	7'-10"			20	30	9'-1"	7'-9"			9				10				9				9		12"	22	32	6'-7"
				6'			20	30	8'-0"			20	30	9'-3"	7'-11"			9				12				9				9		12"	22	32	7'-7"
				7'			20	30	8'-1"			20	30	9'-4"	8'-0"			9				14				9				9		10"	28	40	8'-7"
				8'			20	30	8'-3"			20	30	9'-6"	8'-2"			9				16				9				9		12"	22	32	9'-7"
				9'			20	30	8'-5"			20	30	9'-7"	8'-3"			9				18				9				9		10"	28	38	10'-7"
			1 @ 8'	6'	#8	12"	22	32	8'-11"	#7	12"	22	32	10'-2"	8'-10"	#4	11"	10		#4	12"	12		#4	11"	10		#4	11"	10		12"	22	32	7'-5"
				7'			22	32	9'-0"			22	32	10'-3"	8'-11"			10				14				10				10		12"	22	32	8'-5"
				8'			22	32	9'-2"			22	32	10'-5"	9'-1"			10				16				10				10		10"	28	38	9'-7"
				9'			22	32	9'-3"			22	32	10'-6"	9'-2"			10				18				10				10		10"	28	38	10'-7"
				10'			22	32	9'-5"			22	32	10'-8"	9'-4"			10				20				10				10		12"	22	32	11'-7"
			1 @ 8'	7'	#8	12"	22	32	10'-1"	#7	12"	22	32	11'-4"	10'-0"	#4	10"	11		#4	12"	14		#4	10"	11		#4	10"	11		12"	22	32	8'-10"
				8'			22	32	10'-3"			22	32	11'-5"	10'-1"			11				16				11				11		12"	22	32	9'-10"
				9'			22	32	10'-3"			22	32	11'-6"	10'-2"			11				18				11				11		10"	28	38	10'-7"
				10'			22	32	10'-5"			22	32	11'-8"	10'-4"			11				20				11				11		12"	22	32	11'-7"
				11'			22	32	10'-7"			22	32	11'-10"	10'-6"			11				22				11				11		12"	22	32	12'-7"
			1 @ 10'	8'	#9	12"	22	32	10'-11"	#8	12"	22	32	12'-2"	10'-9"	#4	9½"	14		#4	12"	16		#4	9½"	14		#4	9½"	14		12"	22	32	9'-7"
				9'			22	32	11'-1"			22	32	12'-4"	10'-11"			14				18				14				14		12"	22	32	10'-7"
				10'			22	32	11'-3"			22	32	12'-6"	11'-1"			14				20				14				14		12"	22	32	11'-7"
				11'			22	32	11'-5"			22	32	12'-8"	11'-3"			14				22				14				14		12"	22	32	12'-7"
				12'			22	32	11'-7"			22	32	12'-10"	11'-5"			14				24				14				14		12"	22	32	13'-7"
SECTION "E" & BAR GROUP "E"	Varies with Length of Barrel	30'-0" TO 25'-0"	1 @ 8'	5'			20	30	7'-11"			20	30	9'-2"	7'-10"			9				10				9				9		12"	22	32	6'-6"
				6'			20	30	8'-1"			20	30	9'-4"	8'-0"			9				12				9				9		12"	22	32	7'-6"
				7'			20	30	8'-3"			20	30	9'-6"	8'-2"			9				14				9				9		10"	28	40	8'-6"
				8'			20	30	8'-4"			20	30	9'-7"	8'-3"			9				16				9				9		12"	22	32	9'-6"
				9'			20	30	8'-6"			20	30	9'-9"	8'-5"			9				18				9				9		10"	28	38	10'-6"
			1 @ 8'	6'	#8	12"	22	32	9'-1"	#7	11"	22	32	10'-4"	9'-0"	#4	10"	11		#4	12"	12		#4	10"	11		#4	10"	11		12"	22	32	7'-4"
				7'			22	32	9'-3"			22	32	10'-6"	9'-2"			11				14				11				11		12"	22	32	8'-4"
				8'			22	32	9'-5"			22	32	10'-8"	9'-4"			11				16				11				11		10"	28	38	9'-4"
				9'			22	32	9'-7"			22	32	10'-9"	9'-6"			11				18				11				11		10"	28	38	10'-4"
				10'			22	32	9'-9"			22	32	10'-11"	9'-8"			11				20				11				11		12"	22	32	11'-4"
			1 @ 8'	7'	#8	12"	22	32	10'-3"	#8	11"	22	32	11'-8"	10'-2"	#4	9"	13		#4	12"	14		#4	9"	13		#4	9"	13		12"	22	32	9'-2"
				8'			22	32	10'-5"			22	32	11'-10"	10'-4"			13				16				13				13		12"	22	32	10'-2"
				9'			22	32	10'-7"			22	32	12'-0"	10'-6"			13				18				13				13		12"	22	32	11'-2"
				10'			22	32	10'-9"			22	32	12'-2"	10'-8"			13				20				13				13		12"	22	32	12'-2"
				11'			22	32	10'-11"			22	32	12'-4"	10'-10"			13				22				13				13		12"	22	32	13'-2"

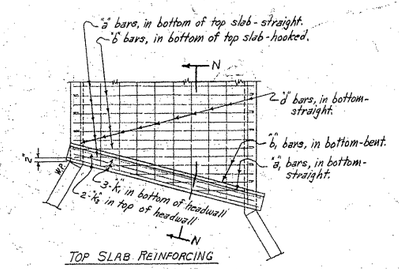
NOTE:- Bars for each Section to be marked with the Section letter thus for Section B, the bars should be marked Ba, Bb, Bc, Bd, Be and Bf.

Designed By:- W.C.H. 7-18-62. Checked By:- RHS 7-25-62
Drawn By:- W.C.H. 8-3-62. Checked By:- RHS 8-10-62
Quantities By:- W.C.H. 8-1-62. Checked By:- RHS 8-10-62

DIMENSIONS / QUANTITIES

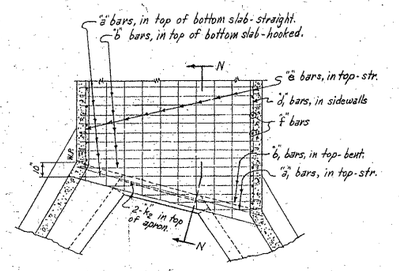
MAX. DESIGN DEPTH OF COVER D	BARREL DIMENSIONS CLEAR SPAN S	CLEAR HEIGHT H	SQ. FT. OPENING A	OVERALL WIDTH OW	THICKNESS OF TOP SLAB T	THICKNESS OF SIDEWALLS C	THICKNESS OF BOTTOM SLAB B	OVERALL HEIGHT OH	UNIT QUANTITIES CLASS S CONC. PER LIN. FT OF BARREL CU.YD.	REINFORCING STEEL PER LIN. FT. OF BARREL LB.	ADDITIONAL PER LAP LB.	TWO HEADWALLS & APRONS LB
SECTION "A" - 10'-0"	1 @ 7'	5'	35	8'-0"	8"	6"	8½"	6'-4½"	0.593	68.20	2.71	107.42
		6'	42	8'-2"		7"		7'-4½"	0.676	71.72	23.38	108.81
		7'	49	8'-3"		7½"		8'-4½"	0.744	75.80	25.05	109.50
		8'	56	8'-4"		8"		9'-4½"	0.819	84.72	26.72	110.20
		9'	63	8'-6"		9"		10'-4½"	0.933	90.91	28.39	111.59
	1 @ 8'	6'	48	9'-2"	8½"	7"	9½"	7'-6"	0.769	86.55	25.05	157.02
		7'	56	9'-3"		7½"		8'-6"	0.838	89.72	26.72	158.02
		8'	64	9'-4"		8"		9'-6"	0.914	99.84	28.39	159.02
		9'	72	9'-6"		9"		10'-6"	1.028	106.20	30.06	161.03
		10'	80	9'-8"		10"		11'-6"	1.154	113.38	31.73	163.03
	1 @ 9'	7'	63	10'-3"	9½"	7½"	10½"	8'-8"	0.957	116.90	28.39	177.61
		8'	72	10'-4"		8"		9'-8"	1.033	127.28	30.06	178.61
		9'	81	10'-6"		9"		10'-8"	1.148	133.97	31.73	180.61
		10'	90	10'-8"		10"		11'-8"	1.276	141.46	33.40	182.62
		11'	99	10'-10"		11"		12'-8"	1.416	152.81	35.07	184.62
	1 @ 10'	8'	80	11'-2"	10½"	8"	11½"	9'-10"	1.165	141.10	31.73	249.37
		9'	90	11'-6"		9"		10'-10"	1.281	145.89	33.40	252.10
		10'	100	11'-8"		10"		11'-10"	1.909	155.50	35.07	254.82
		11'	110	11'-10"		11"		12'-10"	1.550	167.01	36.74	257.55
		12'	120	12'-0"		12"		13'-10"	1.704	176.92	38.41	260.27
SECTION "B" - 15'-0"	1 @ 7'	5'	35	8'-0"	8¾"	6"	9¼"	6'-6"	0.680	80.06	21.71	
		6'	42	8'-2"		7"		7'-6"	0.713	83.83	23.38	
		7'	49	8'-3"		7½"		8'-6"	0.782	93.23	25.05	
		8'	56	8'-4"		8"		9'-6"	0.858	105.69	26.72	
		9'	63	8'-6"		9"		10'-6"	0.972	111.13	28.39	
	1 @ 8'	6'	48	9'-2"	9¾"	7"	10¾"	7'-8½"	0.839	96.44	25.05	
		7'	56	9'-3"		7½"		8'-8½"	0.909	106.02	26.72	
		8'	67	9'-4"		8"		9'-8½"	0.986	113.96	28.39	
		9'	72	9'-6"		9"		10'-8½"	1.101	124.80	30.06	
		10'	80	9'-8"		10"		11'-8½"	1.229	136.58	31.73	
	1 @ 9'	7'	63	10'-3"	10¾"	7½"	11¾"	8'-10½"	1.036	127.99	28.39	
		8'	72	10'-4"		8"		9'-10½"	1.113	135.59	30.06	
		9'	81	10'-6"		9"		10'-10½"	1.229	146.09	31.73	
		10'	90	10'-8"		10"		11'-10½"	1.358	158.75	33.40	
		11'	99	10'-10"		11"		12'-10½"	1.499	171.14	35.07	
	1 @ 10'	8'	80	11'-2"	11¾"	8"	12¾"	10'-0½"	1.252	160.73	33.40	
		9'	90	11'-6"		9"		11'-0½"	1.370	171.52	35.07	
		10'	100	11'-8"		10"		12'-0½"	1.499	180.64	36.74	
		11'	110	11'-10"		11"		13'-0½"	1.642	197.17	38.41	
		12'	120	12'-0"		12"		14'-0½"	1.796	203.27	40.08	
SECTION "C" - 20'-0"	1 @ 7'	5'	35	8'-0"	9¾"	6"	10¾"	6'-8"	0.679	89.15	21.71	
		6'	42	8'-2"		7"		7'-8"	0.763	98.64	23.38	
		7'	49	8'-3"		7½"		8'-8"	0.833	106.20	25.05	
		8'	56	8'-4½"		8½"		9'-8"	0.924	117.96	26.72	
		9'	63	8'-6½"		9½"		10'-8"	1.041	132.28	28.39	
	1 @ 8'	6'	48	9'-2"	11"	7"	11½"	7'-10½"	0.896	111.55	26.72	
		7'	56	9'-3"		7½"		8'-10½"	0.966	122.89	28.39	
		8'	64	9'-5"		8½"		9'-10½"	1.074	132.89	30.06	
		9'	72	9'-6½"		9½"		10'-10½"	1.177	144.87	31.73	
		10'	80	9'-8½"		10½"		11'-10½"	1.307	156.17	33.40	
	1 @ 9'	7'	63	10'-4"	12"	8"	13"	9'-11"	1.143	192.65	30.06	
		8'	72	10'-5"		8½"		10'-11"	1.224	135.88	31.73	
		9'	81	10'-6½"		9½"		11'-11"	1.327	167.52	33.40	
		10'	90	10'-8½"		10½"		12'-11"	1.459	179.75	35.07	
		11'	99	10'-10½"		11½"		13'-11"	1.603	197.28	36.74	
	1 @ 10'	8'	80	11'-2½"	13½"	8½"	14½"	10'-11½"	1.405	173.91	35.07	
		9'	90	11'-4"		9½"		11'-11½"	1.511	194.05	36.74	
		10'	100	11'-6½"		10½"		12'-11½"	1.626	203.28	38.41	
		11'	110	11'-10½"		11½"		13'-11½"	1.772	221.81	40.08	
		12'	120	12'-0½"		12½"		14'-11½"	1.929	241.22	41.75	
SECTION "D" - 25'-0"	1 @ 7'	5'	35	8'-1"	10¾"	6¾"	11¾"	6'-10"	0.749	96.65	23.38	
		6'	42	8'-3"		7¾"		7'-10"	0.838	106.38	25.05	
		7'	49	8'-4¾"		8¾"		8'-10"	0.925	114.06	26.72	
		8'	56	8'-6"		9"		9'-10	1.022	126.68	28.39	
		9'	63	8'-8"		10"		10'-10	1.144	141.24	30.06	
	1 @ 8'	6'	48	9'-3"	12"	7¾"	12¾"	8'-0½"	0.977	128.84	28.39	
		7'	56	9'-4¾"		8¾"		9'-0½"	1.065	136.70	30.06	
		8'	64	9'-6¾"		9¾"		10'-0½"	1.178	146.99	31.73	
		9'	72	9'-8¾"		10¾"		11'-0½"	1.304	159.36	33.40	
		10'	80	9'-10¾"		11¾"		12'-0½"	1.441	175.92	35.07	
	1 @ 9'	7'	63	10'-5"	13¾"	8¾"	14¾"	9'-11½"	1.251	160.30	31.73	
		8'	72	10'-7"		9¾"		10'-11½"	1.367	179.69	33.40	
		9'	81	10'-8¾"		10¾"		11'-11½"	1.478	186.52	35.07	
		10'	90	10'-10¾"		11¾"		12'-11½"	1.617	193.04	36.74	
		11'	99	10'-10¾"		12¾"		13'-11½"	1.769	216.88	38.41	
	1 @ 10'	8'	80	11'-7"	15¾"	9¾"	16¾"	10'-6"	1.542	200.20	36.74	
		9'	90	11'-9"		10¾"		11'-6"	1.671	214.77	38.41	
		10'	100	11'-10¾"		11¾"		12'-6"	1.794	230.33	40.08	
		11'	110	12'-0¾"		12¾"		13

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



TOP SLAB REINFORCING

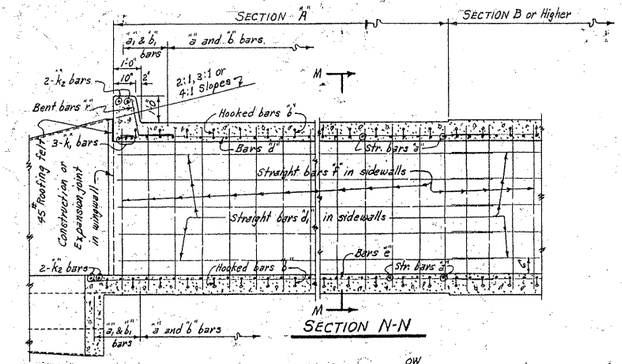
PART PLAN AT END OF CULVERT

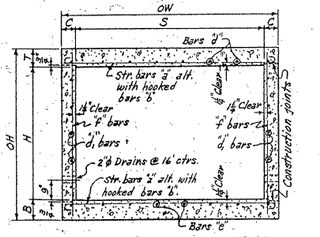


BOTTOM SLAB REINFORCING

PART PLAN AT END OF CULVERT

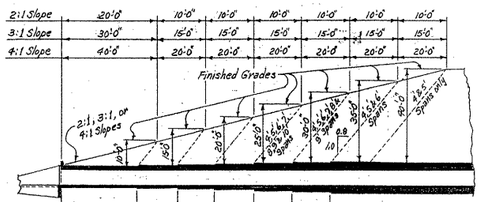
NOTE:- The "d₁" "d₂" and "e" bars vary in length. They should extend 1'-9" into SECTION B.





TYPICAL SECTION M-M

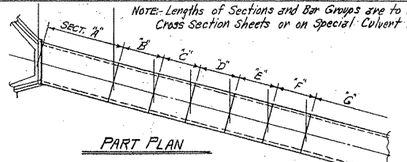
2:1 Slope	20'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	
3:1 Slope	30'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	
4:1 Slope	40'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	



2:1 Slope = SECTIONS	A=12'-0"	B=6'-0"	C=6'-0"	D=6'-0"	E=6'-0"	F=6'-0"	MID-SECTION G-Varies	These lengths are perpendicular to ℄ of roadway. See Table of Skew Lengths below.
Bar Group	A	B	C	D	E	F	G	
3:1 Slope = SECTIONS	A=22'-0"	B=11'-0"	C=11'-0"	D=11'-0"	E=11'-0"	F=11'-0"	MID-SECTION G-Varies	
Bar Group	A	B	C	D	E	F	G	
4:1 Slope = SECTIONS	A=32'-0"	B=16'-0"	C=16'-0"	D=16'-0"	E=16'-0"	F=16'-0"	MID-SECTION G-Varies	
Bar Group	A	B	C	D	E	F	G	

TYPICAL LONGITUDINAL SECTION - SHOWING SECTIONS AND BAR GROUPS FOR VARIOUS DEPTHS OF COVER

NOTE:- Lengths of Sections and Bar Groups are to be shown on Cross Section Sheets or on Special Culvert Layout Sheet.



PART PLAN

LENGTH OF SECTIONS ON 15° SKEW

SLOPE	2:1		3:1		4:1	
SECTIONS	A	B, C, D, E & F	A	B, C, D, E & F	A	B, C, D, E & F
LENGTHS	12'-5"	6'-2½"	22'-9½"	11'-4⅝"	33'-1½"	16'-6¾"

NOTE:- For Details and Bar Lists for Sections B thru G, see Barrel Drawing Nos. R-100X-X.1 or R-100X-X.2.

SECTIONS AND BAR GROUPS TO BE USED FOR VARIOUS DEPTHS OF COVER

DEPTHS OF COVER	SECTIONS & BAR GROUPS FOR END SECTIONS A	B	C	D	E	F	MID-SECTION AND BAR GROUP
5.0' to 9.5'	A						A
10.0' to 14.5'	A						B
15.0' to 19.5'	A	B					C
20.0' to 24.5'	A	B	C				D
25.0 to 29.5	A	B	C	D			E
30.0' to 34.5'	A	B	C	D	E		F
35.0 to 40.0'	A	B	C	D	E	F	G

OR ALT.

DEPTHS OF COVER	SECTIONS & BAR GROUPS FOR END SECTIONS A	B	C	D	E	F	MID-SECTION AND BAR GROUP
5.0' to 9.5'	A						A
10.0' to 14.5'	A						B
15.0' to 19.5'	A	B					C
20.0' to 24.5'	A	2@C					D
25.0 to 29.5	A	B	2@D				E
30.0 to 34.5'	A	2@C	2@E				F
35.0 to 40.0	A	2@D	2@E	2@F			G

BAR SIZE	PIN DIAM.	K	ADD FOR 2 HOOKS	BENDING DIAGRAM FOR BARS "b"
#4	2"	4"	0'-10⅝"	K, Pin diam., X
#5	2½"	4⅝"	0'-11½"	
#6	3"	5"	1'-2"	
#7	3½"	5⅝"	1'-4"	

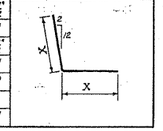
NOTE:- Dimensions are to centers of bars ("b" and "b₁").

BAR SIZE	PIN DIAM.	K	ADD FOR 1 HOOK	BENDING DIAGRAM FOR BARS "b₁"
#4	2"	4"	0'-5¼"	K, Pin diam., X
#5	2½"	4⅝"	0'-5⅞"	
#6	3"	5"	0'-7"	
#7	3½"	5⅝"	0'-8"	

DOWEL BARS FOR ONE HEADWALL

SPAN	SIZE	SPACING	No. REQD	LENGTH	X
4'	#4	12"±	6	2'-5"	1'-2½"
5'	#4	12"±	7	2'-6"	1'-3"
6'	#4	12"±	8	2'-7"	1'-3½"
7'	#4	12"±	9	2'-8"	1'-4"
8'	#4	12"±	10	2'-10"	1'-5"
9'	#4	12"±	11	3'-0"	1'-6"
10'	#4	12"±	12	3'-2"	1'-7"

Dowel bars "r" in One Headwall.



DESIGN LIVE LOAD

H20-S16 LOADING A.A.S.H.O. 1961

AND

SPECIAL MILITARY LOADING

Two 24,000 Lb. Axles @ 4'-0" ctrs.

UNIT STRESSES:-

Class S Concrete (n=10) 1200#/□"

Reinforcing Steel 20,000#/□"

GENERAL NOTES

CONCRETE:- All concrete to be Class S, and shall be poured in the dry. All exposed corners to have ¾" chamfers.

REINFORCING STEEL:- Reinforcing to be deformed bars of intermediate or hard grade.

CONSTRUCTION JOINTS:- Construction joints between wingwalls, sidewalls and slabs shall be only where shown on plans.

SPECIFICATIONS:- Arkansas State Highway Commission Standard Specifications for Highway Construction and applicable Special Provisions.

MAX. DESIGN DEPTH OF COVER	BARREL DIMENSIONS: CLEAR SPANS	CLEAR HEIGHT	SQ. FT. OPENING	OVERALL WIDTH	THICKNESS OF TOP SLAB	THICKNESS OF SIDEWALLS	THICKNESS OF BOTTOM SLAB	OVERALL HEIGHT	ROADWAY LENGTH	LENGTH OF HEADWALL	* QUANTITIES - ONE SECTION "A": CLASS S CONCRETE, BARREL ONLY 2:1	3:1	4:1	REINFORCING STEEL, BARREL, APRON AND HEADWALL 2:1	3:1	4:1
D	S	H	A	OW	T	C	B	OH	RL	K	CU.YD.	CU.YD.	CU.YD.	LB.	LB.	LB.
1 @ 4'	2'	8	5'-0"		6"			3'-1"	5'-2⅜"	5'-0⅝"	3.41	6.26	9.11	410	682	963
	3'	12	5'-0"		6"			4'-1"	"	"	3.87	7.10	10.34	446	796	1054
	4'	16	5'-0"	6½"	6"	6½"		5'-1"	"	"	4.33	7.95	11.56	482	809	1146
	5'	20	5'-0"		6"			6'-1"	"	"	4.79	8.79	12.79	518	873	1237
	6'	24	5'-2"		7"			7'-1"	5'-4⅞"	5'-10⅝"	5.80	10.43	15.47	562	947	1344
1 @ 5'	3'	15	6'-0"		6"			4'-2"	6'-2½"	6'-9"	4.59	8.43	12.26	619	1068	1518
	4'	20	6'-0"		6"			5'-2"	"	"	5.05	9.27	13.48	655	1132	1610
	5'	25	6'-0"	7"	6"	7"		6'-2"	"	"	5.51	10.11	14.71	691	1195	1701
	6'	30	6'-2"		7"			7'-2"	6'-9⅜"	6'-11⅝"	6.53	11.98	17.42	747	1287	1827
	7'	35	6'-3"		7½"			8'-2"	6'-5⅝"	7'-0⅝"	7.38	13.53	19.68	800	1395	1989
1 @ 6'	3'	18	7'-0"		6"			4'-3"	7'-3"	7'-9½"	5.40	9.91	14.91	800	1391	1975
	4'	24	7'-0"		6"			5'-3"	"	"	5.86	10.75	16.64	836	1454	2066
	5'	30	7'-0"	7½"	6"	7½"		6'-3"	"	"	6.32	11.59	16.86	872	1518	2158
	6'	36	7'-2"		7"			7'-3"	7'-5"	7'-11½"	7.34	13.46	19.58	921	1602	2279
	7'	42	7'-3"		7½"			8'-3"	7'-6"	8'-0⅝"	8.20	15.03	21.86	974	1714	2444
	8'	48	7'-4"		8"			9'-3"	7'-7⅝"	8'-1⅝"	9.13	16.74	24.35	1112	1943	2774
1 @ 7'	4'	28	8'-0"		6"			5'-4⅜"	8'-3⅝"	8'-9⅝"	6.90	12.66	18.42	959	1696	2310
	5'	35	8'-0"		6"			6'-4⅜"	"	"	7.36	13.50	19.64	994	1770	2402
	6'	42	8'-2"	8"	7"	8"	8½"	7'-4⅜"	8'-5½"	9'-0"	8.38	15.37	22.36	1045	1795	2523
	7'	49	8'-3"		7½"			8'-4⅜"	8'-6⅝"	9'-1"	9.24	16.94	24.65	1098	1891	2662
	8'	56	8'-4"		8"			9'-4⅜"	8'-7½"	9'-2"	10.17	18.65	27.13	1218	2100	2964
	9'	63	8'-6"		9"			10'-4⅜"	8'-9⅜"	9'-9"	11.59	21.25	30.91	1298	2244	3173
1 @ 8'	4'	32	9'-0"		6"			5'-6"	9'-3⅜"	9'-10⅝"	8.05	14.76	21.47	1177	1985	2826
	5'	40	9'-2"		7"			6'-6"	9'-5⅞"	10'-0⅝"	9.00	16.51	24.02	1229	2074	2953
	6'	48	9'-2"	8½"	7"	9½"		7'-6"	"	"	9.55	17.51	25.47	1265	2137	3044
	7'	56	9'-3"		7½"			8'-6"	9'-6⅝"	10'-1⅝"	10.41	19.08	27.76	1309	2213	3154
	8'	64	9'-4"		8"			9'-6"	9'-8"	10'-2½"	11.35	20.81	30.28	1443	2449	3495
	9'	72	9'-6"		9"			10'-6"	9'-10"	10'-4½"	12.76	23.41	34.05	1526	2576	3669
	10'	80	9'-8"		10"			11'-6"	10'-0⅝"	10'-6⅝"	14.33	26.28	38.23	1613	2708	3847
1 @ 9'	5'	45	10'-2"		7"			6'-8"	10'-6⅝"	11'-0⅝"	10.48	19.22	27.96	1549	2716	3883
	6'	54	10'-3"		7½"			7'-8"	10'-7⅝"	11'-1⅝"	11.30	20.72	30.16	1609	2796	3957
	7'	63	10'-3"		7½"			8'-8"	"	"	11.88	21.79	31.70	1642	2859	4048
	8'	72	10'-4"	9½"	8"	10½"		9'-8"	10'-8⅝"	11'-2⅝"	12.83	23.52	34.22	1783	3101	4398
	9'	81	10'-6"		9"			10'-8"	10'-10⅝"	11'-5"	14.25	26.14	38.03	1870	3259	4626
	10'	90	10'-8"		10"			11'-8"	11'-0⅝"	11'-7"	15.84	29.06	42.27	1961	3435	4878
	11'	99	10'-10"		11"			12'-8"	11'-2⅝"	11'-9"	17.58	32.24	46.91	2127	3703	5267
1 @ 10'	5'	50	11'-2"		7"			6'-10"	11'-6⅝"	12'-1⅝"	12.09	22.18	32.26	1808	3105	4362
	6'	60	11'-3"		7½"			7'-10"	11'-7⅝"	12'-2⅝"	12.94	23.73	34.52	1854	3186	4477
	7'	70	11'-3"		7½"			8'-10"	"	"	13.51	24.78	36.04	1902	3272	4592
	8'	80	11'-4"	10½"	8"	11½"		9'-10"	11'-8⅝"	12'-3⅝"	14.47	26.53	38.59	2031	3494	4925
	9'	90	11'-6"		9"			10'-10"	11'-10⅝"	12'-5⅝"	15.91	29.17	42.43	2098	3612	5091
	10'	100	11'-8"		10"			11'-10"	12'-1"	12'-7⅝"	17.50	32.08	46.67	2213	3837	5413
	11'	110	11'-10"		11"			12'-10"	12'-3"	12'-9⅝"	19.25	35.30	51.34	2382	4099	5746
	12'	120	12'-0"		12"			13'-10"	12'-5⅝"	12'-11⅝"	21.16	38.80	56.95	2502	4328	6124

* For remainder of quantities see Std. Wing and Barrel Drawings listed below.

NOTE:- This drawing to be used in conjunction with Standard Wing Drawing Nos. W-X152-1 or W-X152-2, W-X153-1 or W-X153-2, and W-X154-1 or W-X154-2. Also W-X15.
For Barrels of 4', 5' & 6' Spans, See Drawing No. R-100X-X.1.
For Barrels of 7', 8', 9' & 10' Spans, See Drawing No. R-100X-X.2.

CLASS S CONCRETE

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF STANDARD BARREL SECTIONS
FOR
REINFORCED CONCRETE BOX CULVERTS
15° SKEW ~ SECTIONS "A" ONLY

4, 5, 6, 7, 8, 9 & 10 SPANS — 2:1, 3:1 OR 4:1 SLOPES
SINGLES — OVER 5'-0" COVER

STANDARD DRAWING No. R-115X-1

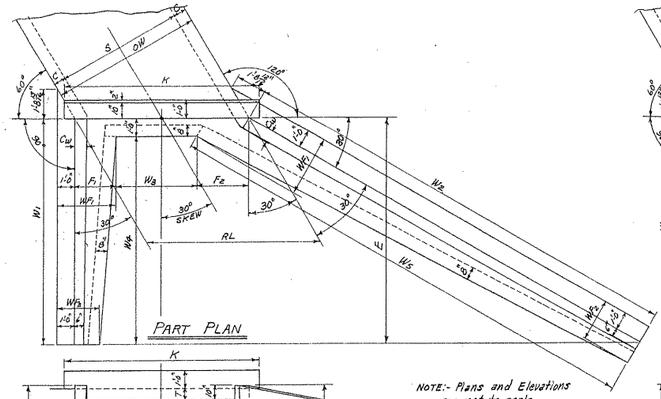
BAR LIST FOR SECTION "A" ON 15° SKEW - ONE END ONLY.

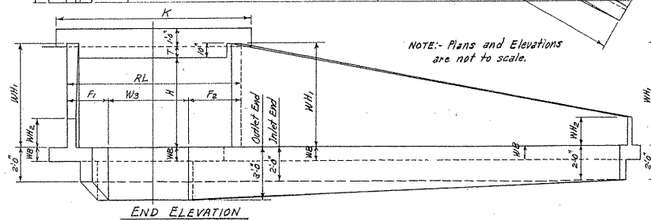
SECTION "A" & BAR GROUP "A"

0'-0" TO 10'-0" MAXIMUM.

SECTION & BAR GROUP: LENGTH OF SECTION	DEPTH OF COVER D	CLEAR SPAN S	CLEAR HEIGHT H	"a" bars STRAIGHT In Top and Bottom Slabs of Barrel: SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	"a₁" bars STRAIGHT In Top and Bottom Slab of Barrel - (Two of each Length.) (Two of each Length): SIZE	SPACING	NUMBER REQ'D	LENGTH	"b" bars BENT - See Diagrams at Right. In Top and Bottom Slabs of Barrel - hooked. Alternate with "a" bars.: SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	"b₁" bars BENT - See Diagrams at Right. In Top and Bottom Slabs of Barrel - one end hooked. (Two of each Length.) Alternate with "a₁" bars.: SIZE	SPACING	NO. REQ'D	LENGTH MAX.	MIN.	X MAX.	MIN.
2:1 = 12'-5"	1 @ 4'	2'	8'	#4	12"	25	45	67	4'-9"	—	—	—	—	#4	12"	25	45	65	5'-7"	6'-8½"	2	3'-3"	—	2'-10"
		3'	12'			25	45	67	"							25	45	65	"	"	2	"	—	"
		4'	16'			25	45	67	"							25	45	65	"	"	2	"	—	"
		5'	20'			25	45	67	"							25	45	65	"	"	2	"	—	"
		6'	24'			25	45	67	4'-11"							25	45	65	5'-9"	9'-10½"	2	3'-5"	—	3'-0"
	1 @ 5'	3'	15'	#5	12"	25	45	67	5'-9"	—	—	—	—	#5	12"	25	45	65	6'-8"	5'-8½"	2	4'-9"	—	3'-10"
		4'	20'			25	45	67	"							23	45	65	"	"	2	"	—	"
		5'	25'			25	45	67	"							23	45	65	"	"	2	"	—	"
		6'	30'			25	45	67	5'-11"							23	45	65	6'-10"	5'-10½"	2	4'-7"	—	4'-1"
		7'	35'			25	45	67	6'-0"							23	45	65	6'-11"	5'-11½"	2	4'-7"	—	4'-1"
	1 @ 6'	3'	18'	#5	12"	25	45	67	6'-9"			2	3'-0"	#5	12"	23	45	65	7'-10"	6'-8"	2	5'-5"	—	4'-10"
		4'	24'			25	45	67	"			2	"			23	45	65	"	"	2	"	—	"
		5'	30'			25	45	67	"			2	"			23	45	65	"	"	2	"	—	"
		6'	36'			25	45	67	6'-11"			2	3'-2"			23	45	65	8'-0"	6'-10"	2	5'-7"	—	5'-0"
		7'	42'			25	45	67	7'-0"			2	3'-3"			23	45	65	8'-1"	6'-11"	2	5'-8"	—	5'-1"
		8'	48'			25	45	67	7'-1"			2	3'-4"			23	45	65	8'-2"	7'-0"	2	5'-9"	—	5'-2"
	1 @ 7'	4'	28'	#5	12"	25	45	65	7'-9"			2	4'-0"	#6	12"	23	45	65	8'-10"	7'-8"	2	6'-5"	—	5'-10"
		5'	35'			25	45	65	"			2	"			23	45	65	"	"	2	"	—	"
		6'	42'			25	45	65	7'-11"			2	4'-2"			23	45	65	9'-10"	7'-10"	2	6'-7"	—	6'-0"
		7'	49'			25	45	65	8'-0"			2	4'-3"			23	45	65	9'-11"	7'-11"	2	6'-8"	—	6'-1"
		8'	56'			25	45	65	8'-1"			2	4'-4"			23	45	65	9'-12"	8'-0"	2	6'-9"	—	6'-2"
		9'	63'			25	45	65	8'-3"			2	4'-6"			23	45	65	9'-9"	8'-2"	2	6'-11"	—	6'-4"
	1 @ 8'	4'	32'	#6	12"	25	45	65	8'-9"	#6	12"	2	5'-0"	#6	12"	23	45	65	9'-10"	8'-8"	4	7'-5"	3'-8"	6'-10"
		5'	40'			25	45	65	8'-11"			2	5'-2"			23	45	65	10'-0"	8'-10"	4	7'-7"	3'-10"	7'-0"
		6'	48'			25	45	65	"			2	"			23	45	65	"	"	4	"	"	"
		7'	56'			25	45	65	9'-0"			2	5'-3"			23	45	65	10'-1"	8'-11"	4	7'-8"	3'-11"	7'-1"
		8'	64'			25	45	65	9'-1"			2	5'-4"			23	45	65	10'-2"	9'-0"	4	7'-9"	4'-0"	7'-2"
		9'	72'			25	45	65	9'-3"			2	5'-6"			23	45	65	10'-4"	9'-2"	4	7'-11"	4'-2"	7'-4"
		10'	80'			25	45	65	9'-5"			2	5'-8"			23	45	65	10'-6"	9'-4"	4	8'-1"	4'-4"	7'-6"
	1 @ 9'	5'	45'	#7	12"	25	49	71	9'-11"	#7	11"	4	6'-4"	#7	11"	25	47	69	11'-2"	9'-10"	4	8'-8"	5'-3"	8'-0"
		6'	54'			25	49	71	10'-0"			4	6'-7"			25	47	69	11'-3"	9'-11"	4	8'-9"	5'-4"	8'-1"
		7'	63'			25	49	71	"			4	"			25	47	69	"	"	4	"	"	"
		8'	72'			25	49	71	10'-1"			4	6'-10"			25	47	69	11'-4"	10'-0"	4	8'-10"	5'-5"	8'-2"
		9'	81'			25	49	71	10'-3"			4	6'-11"			25	47	69	11'-6"	10'-2"	4	9'-0"	5'-7"	8'-4"
		10'	90'			25	49	71	10'-5"			4	7'-0"			25	47	69	11'-8"	10'-4"	4	9'-2"	5'-9"	8'-6"
		11'	99'			25	49	71	10'-7"			4	7'-2"			25	47	69	11'-10"	10'-6"	4	9'-4"	5'-11"	8'-8"
	1 @ 10'	5'	50'	#7	12"	23	45	65	10'-11"	#7	12"	4	7'-2"	#7	12"	23	43	63	12'-2"	10'-10"	4	9'-6"	5'-11"	8'-10"
		6'	60'			23	45	65	11'-0"			4	7'-3"			23	43	63	12'-3"	10'-11"	4	9'-9"	6'-0"	9'-0"
		7'	70'			23	45	65	"			4	"			23	43	63	"	"	4	"	"	"
		8'	80'			23	45	65	11'-1"			4	7'-6"			23	43	63	12'-4"	11'-0"	4	9'-10"	6'-2"	9'-2"
		9'	90'			23	45	65	11'-3"			4	7'-7"			23	43	63	12'-6"	11'-2"	4	9'-11"	6'-3"	9'-4"
		10'	100'			23	45	65	11'-5"			4	7'-8"			23	43	63	12'-8"	11'-4"	4	10'-0"	6'-4"	9'-6"
		11'	110'			23	45	65	11'-7"			4	7'-10"			23	43	63	12'-10"	11'-6"	4	10'-2"	6'-5"	9'-8"
		12'	120'			23

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					

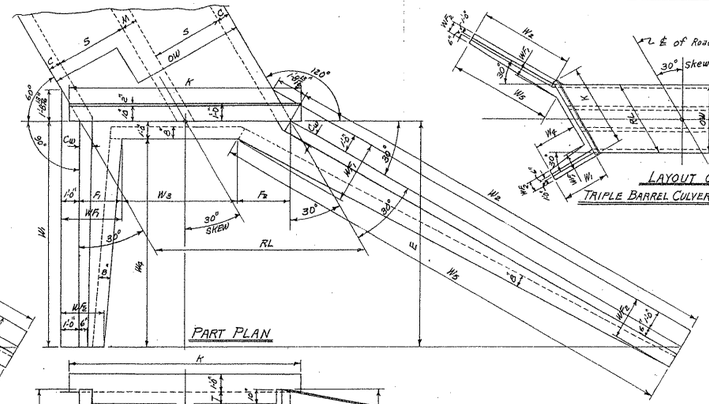


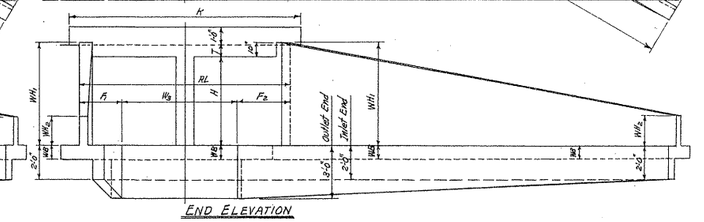


END ELEVATION

SINGLE BARREL CULVERT-30° SKEW RIGHT FORWARD

Details of Culvert with 30° Skew Left Forward is reversed, see Layout below.

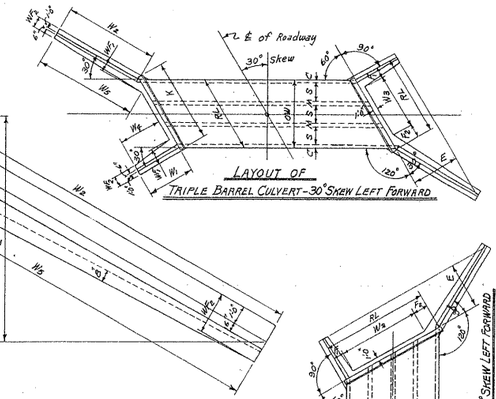




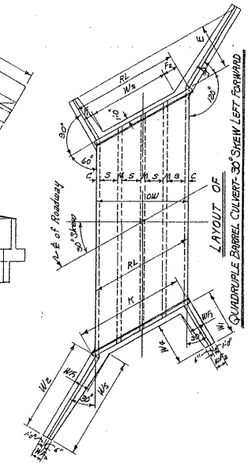
END ELEVATION

DOUBLE BARREL CULVERT-30° SKEW RIGHT FORWARD

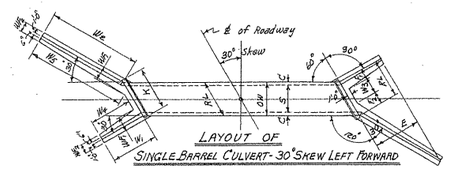
Details of Culvert with 30° Skew Left Forward is reversed, see Layout below.



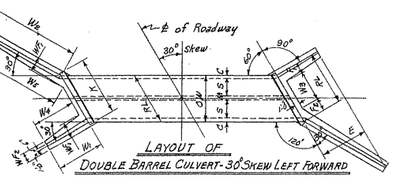
LAYOUT OF TRIPLE BARREL CULVERT-30° SKEW LEFT FORWARD



LAYOUT OF QUADRUPLE BARREL CULVERT-30° SKEW LEFT FORWARD

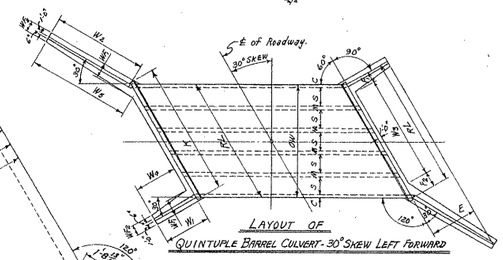


LAYOUT OF SINGLE BARREL CULVERT-30° SKEW LEFT FORWARD

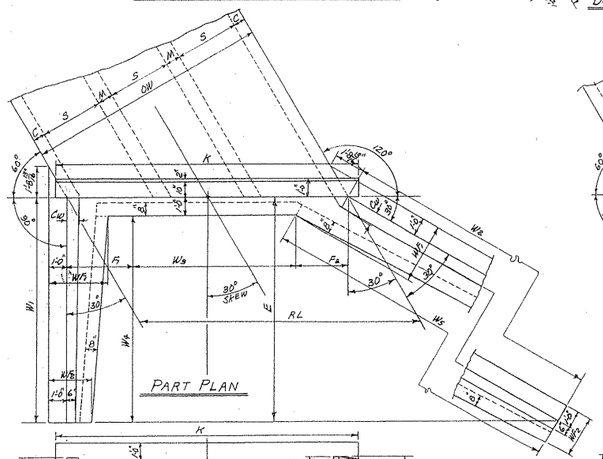


LAYOUT OF DOUBLE BARREL CULVERT-30° SKEW LEFT FORWARD

NOTE:- The length of the wings for the Plans, Elevations, and Layouts, as drawn, are proportioned for 3:1 slopes. For 2:1 slopes the wings are proportionally shorter, while for 4:1 slopes they are longer.



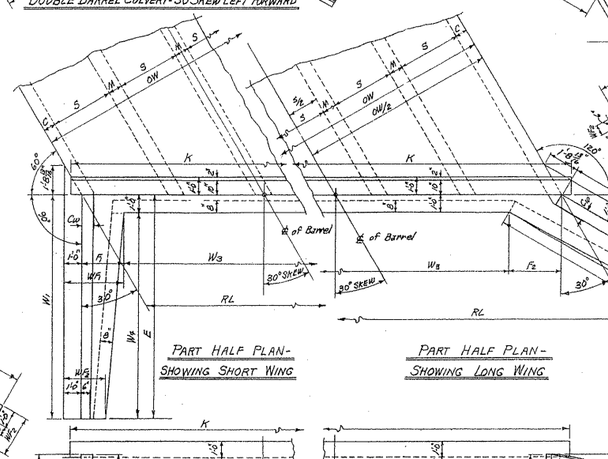
LAYOUT OF QUINTUPLE BARREL CULVERT-30° SKEW LEFT FORWARD



END ELEVATION

TRIPLE BARREL CULVERT-30° SKEW RIGHT FORWARD

Details of Culvert with 30° Skew Left Forward is reversed, see Layout at top center of sheet.



PART END ELEVATION

QUADRUPLE BARREL CULVERT-30° SKEW RT. FWD.

Details of Culvert with 30° Skew Left Forward is reversed, see Layout at above center.

PART END ELEVATION

QUINTUPLE BARREL CULVERT-30° SKEW RT. FWD.

Details of Culvert with 30° Skew Left Forward is reversed, see Layout above.

NOTE:- Plans and Elevations are not to scale.

USE WITH DRAWING No.	CLEAR SPAN S	CLEAR HEIGHT H	SUM OF FOOTING DIMENSIONS F_1+F_2	SINGLE BARREL CULVERT (RL = OW x 1.154+7) OW	RL	K	W_3	DOUBLE BARREL CULVERT OW	RL	K	W_3	TRIPLE BARREL CULVERT (K = RL + (2'-1 3/8")) OW	RL	K	W_3	QUADRUPLE BARREL CULVERT (W_3 = RL - (F_1 + F_2)) OW	RL	K	W_3	QUINTUPLE BARREL CULVERT OW	RL	K	W_3
W-X302-1, W-X303-1 OR W-X304-1.	4'	2'	2'-3 1/4"	5'-0"	5'-9 1/4"	6'-11 1/8"	3'-6"	9'-8"	11'-2"	12'-3 3/8"	8'-10 3/8"	14'-6"	16'-6 5/8"	17'-8 1/2"	14'-3 3/8"	19'-0"	21'-11 1/8"	23'-1"	19'-8"	23'-8"	27'-4"	28'-5 5/8"	25'-0 3/8"
		3'	2'-3 1/4"	5'-0"	"	"	2'-6"	9'-8"	"	"	7'-10 3/8"	14'-9"	"	"	13'-3 3/8"	19'-0"	"	"	18'-8"	28'-8"	"	"	29'-4 1/8"
		4'	4'-3 1/4"	5'-0"	"	"	1'-6"	9'-8"	"	"	6'-10 3/8"	14'-9"	"	"	12'-3 3/8"	19'-0"	"	"	17'-8"	23'-8"	"	"	23'-10 5/8"
		5'	5'-3 1/4"	5'-0"	5'-9 1/4"	6'-11 1/8"	0'-6"	9'-8"	11'-2"	12'-3 3/8"	5'-10 3/8"	14'-9"	16'-6 5/8"	17'-8 1/2"	11'-3 3/8"	19'-0"	21'-11 1/8"	23'-1"	16'-8"	23'-8"	27'-4"	28'-5 5/8"	22'-0 3/8"
		6'	6'-3 1/4"	5'-2"	5'-11 5/8"	7'-1 1/2"	Ⓐ 0"	9'-11"	11'-5 1/4"	12'-7 1/2"	5'-2 1/8"	14'-8"	16'-11 1/8"	18'-1"	10'-8"	19'-5"	22'-5"	23'-7"	16'-3 1/8"	24'-2"	27'-10 5/8"	29'-0 3/8"	21'-7 3/8"
	5'	3'	3'-3 1/4"	6'-0"	6'-11 5/8"	8'-1"	3'-7 1/8"	11'-8"	13'-5 3/8"	14'-7 1/2"	10'-2 5/8"	17'-4"	20'-0 1/8"	21'-2"	16'-9"	23'-0"	26'-6 3/8"	27'-8 1/2"	23'-3 1/8"	28'-8"	33'-1 1/4"	34'-3"	29'-4"
		4'	4'-3 1/4"	6'-0"	"	"	2'-7 3/8"	11'-8"	"	"	9'-12 5/8"	17'-4"	"	"	15'-9"	23'-0"	"	"	22'-3 1/8"	28'-8"	"	"	28'-10"
		5'	5'-3 1/4"	6'-0"	6'-11 5/8"	8'-1"	1'-7 3/8"	11'-8"	13'-5 3/8"	14'-7 1/2"	8'-12 5/8"	17'-4"	20'-0 1/8"	21'-2"	14'-9"	23'-0"	26'-6 3/8"	27'-8 1/2"	21'-3 1/8"	28'-8"	33'-1 1/4"	34'-3"	27'-10"
		6'	6'-3 1/4"	6'-2"	7'-1 1/2"	8'-3 1/4"	0'-10 5/8"	11'-11"	13'-9 1/8"	14'-11"	7'-5 3/8"	17'-8"	20'-4 3/8"	21'-6 1/2"	14'-1 1/2"	23'-5"	27'-0 1/2"	28'-2 1/2"	20'-9 1/2"	29'-2"	33'-8 1/2"	34'-10"	27'-5"
		7'	7'-9 1/4"	6'-3"	7'-2 5/8"	8'-4 1/4"	Ⓐ 0"	12'-1"	13'-11 1/2"	15'-1 1/8"	6'-2 1/8"	17'-11"	20'-8 1/8"	21'-10"	12'-11"	23'-9"	27'-5 1/2"	28'-7"	19'-8"	29'-12"	34'-2"	35'-3 1/2"	26'-9 3/8"
	6'	3'	3'-3 1/4"	7'-0"	8'-1"	9'-2 1/2"	4'-9 3/8"	13'-8"	15'-9 3/8"	16'-11 1/8"	12'-6 1/8"	20'-4"	23'-5 5/8"	24'-7 1/2"	20'-2 1/2"	27'-0"	31'-2 1/2"	32'-4"	27'-11"	33'-8"	38'-10 5/8"	40'-0 1/2"	35'-7 3/8"
		4'	4'-3 1/4"	7'-0"	"	"	3'-9 3/8"	13'-8"	"	"	11'-6 1/8"	20'-4"	"	"	19'-2 5/8"	27'-0"	"	"	26'-11"	33'-8"	"	"	34'-7 1/2"
		5'	5'-3 1/4"	7'-0"	8'-1"	9'-2 1/2"	2'-9 3/8"	13'-8"	15'-9 3/8"	16'-11 1/8"	10'-6 1/8"	20'-4"	23'-5 5/8"	24'-7 1/2"	18'-2 1/2"	27'-0"	31'-2 1/2"	32'-4"	25'-11"	33'-8"	38'-10 5/8"	40'-0 1/2"	33'-7 1/2"
		6'	6'-3 1/4"	7'-2"	8'-3 1/4"	9'-5 1/2"	2'-0"	13'-11"	16'-0 5/8"	17'-2 3/8"	9'-9 1/8"	20'-8"	23'-10 5/8"	25'-0 1/2"	17'-7 1/2"	27'-5"	31'-7 1/2"	32'-9 3/8"	25'-0 3/8"	34'-2"	39'-5 1/2"	40'-7 1/2"	33'-2 1/2"
		7'	7'-9 1/4"	7'-3"	8'-4 1/4"	9'-6 3/8"	0'-7 1/2"	14'-1"	16'-3 1/8"	17'-5"	8'-1"	20'-11"	24'-1 1/2"	25'-3 3/8"	16'-4 1/2"	27'-9"	32'-0 1/2"	33'-2 1/2"	24'-3 1/2"	34'-7"	39'-11 1/2"	41'-1"	32'-2"
		8'	9'-3 1/4"	7'-4"	8'-5 5/8"	9'-7 1/2"	Ⓐ 0"	14'-2"	16'-4 5/8"	17'-6 1/2"	7'-1"	21'-0"	24'-3"	25'-4 3/8"	14'-11 3/8"	27'-10"	32'-1"	33'-3 1/2"	22'-10 1/2"	34'-8"	40'-0 3/8"	41'-2 1/2"	30'-9 1/2"
	7'	4'	4'-3 1/4"	8'-0"	9'-2 1/2"	10'-4 3/8"	4'-11 3/8"	15'-8"	18'-1 1/2"	19'-3"	13'-9 3/8"	23'-4"	26'-11 3/8"	28'-1 1/2"	22'-8"	31'-0"	35'-9 1/2"	36'-11 1/2"	31'-6"	38'-8"	44'-7 1/2"	45'-9 3/8"	40'-4 1/2"
		5'	5'-3 1/4"	8'-0"	9'-2 1/2"	10'-4 3/8"	3'-11 3/8"	15'-8"	18'-1 1/2"	19'-3"	12'-9 3/8"	23'-4"	26'-11 3/8"	28'-1 1/2"	21'-8"	31'-0"	35'-9 1/2"	36'-11 1/2"	30'-6"	38'-8"	44'-7 1/2"	45'-9 3/8"	39'-4 1/2"
		6'	6'-3 1/4"	8'-2"	9'-5 1/2"	10'-7"	3'-2"	15'-11"	18'-4 1/2"	19'-6 1/2"	12'-1 1/8"	23'-8"	27'-1"	28'-3 1/2"	21'-0 3/8"	31'-5"	36'-3 1/2"	37'-5 1/2"	30'-0"	39'-2"	45'-2 1/2"	46'-4 1/2"	38'-11 1/2"
		7'	7'-9 1/4"	8'-3"	9'-6 1/2"	10'-8 1/2"	1'-9"	16'-1"	18'-6 1/2"	19'-8 1/2"	10'-3 1/8"	23'-11"	27'-2 3/8"	28'-9 1/2"	19'-10 1/8"	31'-9"	36'-8"	37'-9 1/2"	28'-10 1/8"	39'-7"	45'-8 1/2"	46'-10 1/8"	37'-11 1/8"
		8'	9'-3 1/4"	8'-4"	9'-7 1/2"	10'-9 3/8"	0'-7 1/8"	16'-2"	18'-8"	19'-9 3/8"	9'-4 3/8"	24'-0"	27'-8 1/2"	28'-10 1/2"	18'-5 1/8"	31'-10"	36'-9 1/2"	37'-11"	27'-6"	39'-8"	45'-9 1/8"	46'-11 1/8"	36'-6 1/8"
(FOR H=8'-0" OR LESS)	8'	4'	4'-3 1/4"	9'-0"	10'-4 3/8"	11'-6 1/2"	6'-1 1/8"	17'-8"	20'-9 3/8"	21'-6 3/8"	16'-1 1/8"	26'-4"	30'-4 3/8"	31'-6 1/8"	26'-1 1/8"	35'-0"	40'-5"	41'-6 1/8"	36'-1 1/8"	43'-8"	50'-5 5/8"	51'-7"	46'-1 3/8"
		5'	5'-3 1/4"	9'-2"	10'-7"	11'-8 1/2"	5'-3 1/2"	17'-11"	20'-8 1/8"	21'-9"	15'-5"	26'-8"	30'-9 1/2"	31'-11 1/8"	25'-6 1/8"	35'-5"	40'-10 3/8"	42'-0 1/2"	35'-7 1/2"	44'-2"	51'-0"	52'-1 1/8"	45'-8 1/8"
		6'	6'-3 1/4"	9'-2"	10'-7"	11'-8 1/2"	4'-3 1/2"	17'-11"	20'-8 1/8"	21'-10"	14'-5"	26'-8"	30'-9 1/2"	31'-11 1/8"	24'-6 1/8"	35'-5"	40'-10 3/8"	42'-0 1/2"	34'-7 1/2"	44'-2"	51'-0"	52'-1 1/8"	44'-8 1/8"
		7'	7'-9 1/4"	9'-3"	10'-8 1/8"	11'-10"	2'-11"	18'-1"	20'-10 1/8"	22'-0 1/2"	13'-1 1/8"	26'-11"	31'-1"	32'-2 3/8"	23'-3 1/8"	35'-9"	41'-3 1/8"	42'-5 1/8"	33'-6 1/2"	44'-7"	51'-5 3/8"	52'-7 1/2"	43'-8 1/8"
		8'	9'-3 1/4"	9'-4"	10'-9 3/8"	11'-11 1/8"	1'-6 1/8"	18'-2"	20'-11 1/8"	22'-1 1/8"	11'-8 1/2"	27'-0"	31'-2 1/8"	32'-4"	21'-11"	35'-10"	41'-7 1/2"	42'-9 1/2"	32'-1 1/8"	44'-8"	51'-7 1/2"	52'-8 3/8"	42'-3 3/8"
	9'	5'	5'-3 1/4"	10'-2"	11'-8 1/2"	12'-10 1/2"	6'-5 3/8"	19'-11"	23'-0"	24'-1 1/2"	17'-0 3/8"	29'-8"	34'-3 3/8"	35'-5"	28'-11 1/8"	39'-5"	45'-1 1/2"	46'-8"	40'-3"	49'-2"	56'-3 1/2"	57'-11 1/8"	51'-6"
		6'	6'-3 1/4"	10'-3"	11'-10"	13'-0"	5'-6 1/2"	20'-1"	23'-2 1/8"	24'-4 1/2"	16'-1 1/8"	29'-11"	34'-6 5/8"	35'-8 1/2"	28'-3 1/8"	39'-9"	45'-8 1/2"	47'-0 1/8"	39'-7 1/2"	49'-7"	57'-1 3/8"	58'-5"	50'-11 3/8"
		7'	7'-9 1/4"	10'-3"	11'-10"	13'-0"	4'-0 1/2"	20'-1"	23'-2 1/8"	24'-4"	15'-5"	29'-11"	34'-6 5/8"	35'-8 1/2"	26'-9 1/8"	39'-9"	45'-10 3/8"	47'-0 1/8"	38'-1 1/2"	49'-7"	57'-1 3/8"	58'-5"	49'-5 1/8"
		8'	9'-3 1/4"	10'-4"	11'-11 5/8"	13'-1"	2'-8"	20'-2"	23'-3 5/8"	24'-5 1/2"	14'-10 1/8"	30'-0"	34'-7 3/8"	35'-9 1/2"	25'-9 1/2"	39'-10"	46'-0"	47'-1 1/8"	36'-8 3/8"	49'-8"	57'-2 1/8"	58'-6"	48'-1"
	10'	5'	5'-3 1/4"	11'-2"	12'-10 3/8"	14'-0 1/2"	7'-7 1/2"	21'-8"	25'-3 3/8"	26'-5 1/2"	20'-0 1/8"	32'-8"	37'-8 3/8"	38'-10 1/2"	32'-5 1/2"	43'-5"	50'-1 3/8"	51'-3 1/2"	44'-10 1/2"	54'-2"	62'-6 1/2"	63'-8 1/2"	57'-3 1/2"
		6'	6'-3 1/4"	11'-3"	12'-11 1/8"	14'-1 3/8"	6'-8 3/8"	22'-1"	25'-6"	26'-7 3/8"	19'-2 3/8"	32'-11"	38'-0 1/8"	39'-2"	31'-9"	43'-9"	50'-6 1/2"	51'-8"	44'-1"	54'-7"	63'-0 1/2"	64'-2 1/2"	56'-9"
		7'	7'-9 1/4"	11'-3"	12'-11 1/8"	14'-1 3/8"	5'-2 3/8"	22'-1"	25'-6"	26'-7 3/8"	17'-8 3/8"	32'-11"	38'-0 1/8"	39'-2"	30'-3"	43'-9"	50'-6 1/2"	51'-8"	42'-9"	54'-7"	63'-0 1/2"	64'-2 1/2"	55'-8"
		8'	9'-3 1/4"	11'-4"	12'-1"	14'-2"	3'-9 3/8"	22'-2"	25'-7 1/2"	26'-9"	16'-4"	33'-0"	38'-1 1/8"	39'-3"	28'-10"	43'-10"	50'-7 1/2"	51'-9 1/2"	41'-9 1/2"	54'-8"	63'-1 1/2"	64'-3 1/2"	53'-10 1/2"
	11'	6'	6'-3 1/4"	12'-4"	14'-2 5/8"	15'-6 1/2"	7'-11 1/2"	24'-2"	27'-10 5/8"	29'-0 3/8"	21'-7 3/8"	36'-0"	41'-6 1/8"	42'-8 1/2"	35'-3 1/2"	47'-11"	55'-2 1/2"	56'-4 1/2"	48'-11 1/2"	—	—	—	—
		7'	7'-9 1/4"	12'-4"	"	"	6'-5 3/8"	24'-2"	"	"	20'-1 1/8"	36'-0"	"	"	33'-3 3/8"	47'-11"	"	"	47'-5 1/2"	—	—	—	—
		8'	9'-3 1/4"	12'-4"	"	"	4'-11 1/2"	24'-2"	"	"	18'-7 3/8"	36'-0"	"	"	32'-3 3/8"	47'-11"	"	"	45'-11 1/2"	—	—	—	—
	12'	6'	6'-3 1/4"	13'-4"	15'-9 3/8"	16'-11 1/2"	9'-1 1/2"	26'-2"	30'-2 5/8"	31'-9 1/2"	23'-11 1/8"	39'-10"	45'-5 3/8"	46'-12 1/2"	38'-9 1/2"	51'-10"	59'-10 1/2"	61'-0"	53'-2"	—	—	—	—
		7'	7'-9 1/4"	13'-4"	"	"	7'-7 1/2"	26'-2"	"	"	22'-5 1/2"	39'-10"	"	"	37'-1 3/8"	51'-10"	"	"	52'-1"	—	—	—	—
		8'	9'-3 1/4"	13'-4"	"	"	6'-1 1/2"	26'-2"	"	"	20'-11 1/8"	39'-10"	"	"	35'-9 3/8"	51'-10"	"	"	50'-7"	—	—	—	—
(FOR H=9'-0" & OVER) W-X302-2, W-X303-2 OR W-X304-2.	7'	9'	10'-9 1/4"	8'-6"	9'-9 3/8"	10'-11 1/8"	Ⓐ 0"	16'-5"	19'-11 1/2"	20'-1 1/8"	8'-2 1/8"	28'-4"	28'-11 1/2"	29'-3"	17'-9"	32'-3"	37'-2 3/8"	38'-9 3/8"	26'-5 3/8"	40'-2"	46'-9 3/8"	47'-6 1/2"	35'-7 1/2"
	8'	9'	10'-9 1/4"	9'-6"	10'-11 1/8"	12'-1 1/2"	0'-2 3/8"	18'-5"	21'-3 1/2"	22'-5"	10'-6"	27'-10"	31'-6 3/8"	32'-8 1/2"	20'-9 1/2"	36'-3"	41'-10 1/8"	43'-0 1/2"	31'-1"	45'-2"	52'-1 1/2"	53'-3 1/8"	41'-8 1/8"
		10'	12'-3 1/4"	9'-8"	11'-2"	12'-3 3/8"	Ⓐ 0"	18'-8"	21'-6 3/8"	22'-8 1/2"	9'-3 1/2"	27'-8"	31'-11 3/8"	33'-1 1/2"	19'-8 1/8"	36'-8"	42'-1 1/2"	43'-3"	30'-0 3/8"	45'-8"	52'-8 1/2"	53'-10 1/8"	40'-5 1/2"
	9'	9'	10'-9 1/4"	10'-6"	12'-1 1/2"	13'-3 1/4"	1'-9 1/8"	20'-5"	23'-6 5/8"	24'-8 3/8"	12'-9 3/8"	30'-9"	35'-0 1/8"	36'-2 1/2"	22'-3"	40'-3"	46'-5 1/2"	47'-7 1/2"	35'-8 1/2"	50'-2"	57'-11 1/8"	59'-1"	47'-2"
		10'	12'-3 1/4"	10'-8"	12'-3 3/8"	13'-5 3/8"	0'-10 5/8"	20'-8"	23'-10 3/8"	25'-0 1/2"	11'-7 1/8"	30'-8"	35'-9 1/2"	36'-11 1/8"	23'-1 1/8"	40'-8"	46'-11 1/8"	48'-1 1/8"	34'-8 1/8"	50'-8"	58'-6"	59'-8"	46'-12 3/8"
		11'	13'-9 1/4"	10'-10"	12'-6 1/8"	13'-8"	Ⓐ 0"	20'-10"	24'-0 3/8"	25'-2 1/2"	10'-3 1/2"	30'-10"	35'-7 1/8"	36'-9"	21'-10"	40'-10"	47'-1 1/8"	48'-3 1/8"	33'-9 1/2"	50'-10"	58'-10 3/8"	59'-10 1/2"	44'-11 1/2"
	10'	9'	10'-9 1/4"	11'-6"	13'-2 3/8"	14'-5 1/2"	2'-6 1/2"	22'-5"	25'-10 3/8"	27'-0 1/2"	15'-1 3/8"	33'-4"	38'-5 3/8"	39'-7 1/2"	27'-8 1/2"	44'-3"	51'-1 1/8"	52'-3"	40'-9"	55'-2"	63'-8 1/2"	64'-10 1/2"	52'-11 1/8"
		10'	12'-3 1/4"	11'-8"	13'-5 3/8"	14'-7 1/2"	1'-2 1/2"	22'-8"	26'-2 1/2"	27'-4"	13'-3 1/2"	33'-8"	38'-10 1/2"	40'-0"	26'-7 1/2"	44'-8"	51'-7"	52'-8 1/2"	39'-3 1/2"	55'-8"	64'-3 1/2"	65'-5 1/2"	52'-10"
		11'	13'-9 1/4"	11'-10"	13'-8"	14'-9 3/8"	Ⓐ 0"	22'-10"	26'-4 1/2"	27'-6"	12'-7 1/2"	33'-10"	39'-0 1/8"	40'-2 1/2"	25'-3 1/2"	44'-10"	51'-9 1/2"	52'-11"	38'-0"	55'-10"	64'-5 1/2"	65'-7 1/2"	50'-8 1/2"
		12'	15'-3 1/4"	12'-0"	13'-10 1/2"	15'-0 1/8"	Ⓐ 0"	23'-0"	26'-6 1/2"	27'-8 1/2"	11'-3 3/8"	34'-0"	39'-3 1/8"	40'-5"	24'-0"	45'-0"	51'-11 1/2"	53'-1 1/2"	36'-8 1/2"	56'-0"	64'-8"	65'-9 1/2"	49'-10 3/8"
	11'	9'	10'-9 1/4"	12'-6"	14'-5 1/2"	15'-7"	3'-8"	24'-5"	28'-2 3/8"	29'-4 1/2"	17'-5"	36'-4"	41'-11 1/2"	43'-1 1/2"	31'-2 1/2"	49'-3"	55'-10 1/2"	56'-10 1/2"	44'-11 1/2"	—	—	—	—
		10'	12'-3 1/4"	12'-8"	14'-7 1/2"	15'-9 1/2"	2'-9 1/2"	24'-8"	28'-5 1/2"	29'-7 1/2"	15'-2 1/2"	36'-8"	42'-3 1/2"	43'-4"	30'-1 1/2"	49'-8"	56'-2 1/2"	57'-4 1/2"	43'-1 1/2"	—	—	—	—
		11'	13'-9 1/4"	12'-10"	14'-9 3/8"	15'-11 1/2"	1'-0 3/8"	24'-10"	28'-8 1/2"	29'-10"	14'-1"	36'-10"	42'-6 1/2"	43'-8"	28'-9 1/2"	49'-10"	56'-5 1/2"	57'-6 1/2"	42'-1 1/2"	—	—	—	—
		12'	15'-3 1/4"	13'-0"	15'-0 1/8"	16'-2"	Ⓐ 0"	25'-0"	28'-10 3/8"	30'-0 1/2"	13'-7 1/2"	37'-0"	42'-9 3/8"	43'-10 1/2"	27'-5 1/2"	49'-0"	56'-7"	57'-8 1/2"	41'-3 3/8"	—	—	—	—
	12'	9'	10'-9 1/4"	13'-6"	15'-7 1/2"	16'-9"	4'-9 3/8"	26'-5"	30'-6"	31'-8"	19'-8 3/8"	39'-3"	45'-5"	46'-7"	34'-7 1/2"	52'-3"	60'-9"	61'-3 1/2"	49'-6 1/2"	—	—	—	—
		10'	12'-3 1/4"	13'-8"	15'-9 3/8"	16'-11 1/8"	3'-6 3/8"	26'-8"	30'-9 1/2"	31'-11 1/8"	18'-4 3/8"	39'-8"	45'-9 3/8"	46'-10 1/2"	33'-6 1/2"	52'-8"	60'-9 3/8"	61'-11 1/2"	48'-6 1/2"	—	—	—	—
		11'	13'-9 1/4"	13'-10"	15'-11 1/8"	17'-1 1/2"	2'-2 1/2"	26'-10"	30'-11 1/8"	32'-1 1/2"	17'-2 1/2"	39'-10"	46'-0"	47'-1 1/2"	32'-2 1/2"	52'-10"	61'-0 1/8"	62'-2"	47'-2 1/2"	—	—	—	—
		12'	15'-3 1/4"	14'-0"	16'-2"	17'-3 1/2"	0'-10 5/8"	27'-0"	31'-2 1/2"	32'-4"	15'-11"	40'-0"	46'-2 1/2"	47'-4"	30'-11"	53'-0"	61'-2 1/2"	62'-4 1/2"	45'-11 1/2"	—	—	—	—

Designed by - W.C.H. 5-16-63 Checked by -
Drawn by - W.C.H. 7-15-63 Checked by - RMS - 8-21-63
Quantities by - Checked by -

Ⓐ Special case for these boxes. See Detail 'A' and Table 'A' for revised values of F_1, F_2, W_2 and W_3, when apron width is more than 1'-0" and W_3=0".
For Details 'A' and Tables 'A' for each slope, see Drawing Nos. W-X302-1, W-X302-2, or W-X303-1, W-X303-2, or W-X304-1, W-X304-2.

NOTE:- This drawing to be used in conjunction with Standard Wing Drawings for 30° Skews for each slope as listed below.

2:1 Slopes	3:1 Slopes	4:1 Slopes
W-X302-1 or W-X302-2	W-X303-1 or W-X303-2	W-X304-1 or W-X304-2.

NOTE:-
This drawing to be used in conjunction with Standard Barrel Sections, Drawing Nos.-

SINGLES	DOUBLES	TRIPLES	QUADRUPLES	QUINTUPLES
R-130X-0	R-230X-01	R-330X-01	R-430X-01	R-530X-01
	R-230X-02	R-330X-02	R-430X-02	R-530X-02
R-130X-1	R-230X-1	R-330X-1	R-430X-1	R-530X-1
	R-230X-2	R-330X-2		

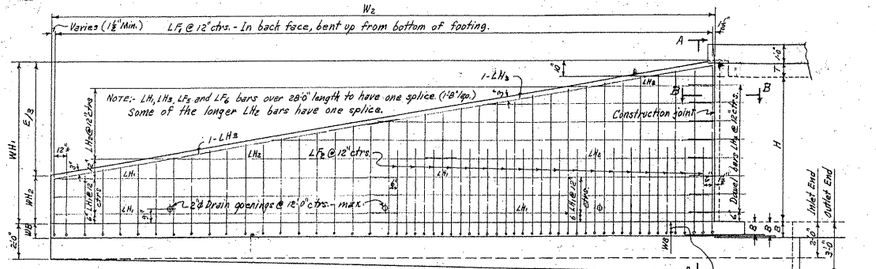
CLASS S CONCRETE

ARKANSAS STATE HIGHWAY COMMISSION
DETAILS OF STANDARD WINGS
FOR
REINFORCED CONCRETE BOX CULVERTS
30° SKEW

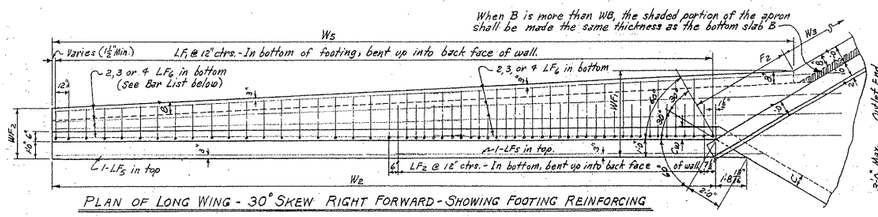
4', 5', 6', 7', 8', 9', 10', 11' & 12' SPANS — 2:1, 3:1 & 4:1 SLOPES
SINGLES, DOUBLES, TRIPLES, QUADRUPLES & QUINTUPLES. — ALL DEPTHS OF COVER H=2', 3', 4', 5', 6', 7', 8', 9', 10', 11' & 12'.

STANDARD DRAWING No. W-X30

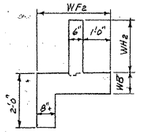
FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



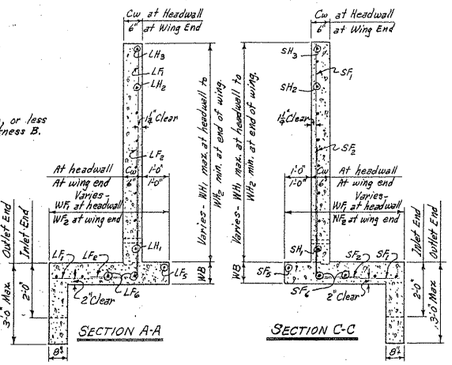
REAR ELEVATION OF LONG WING - 30° SKEW RIGHT FORWARD - SHOWING BACK FACE REINFORCING

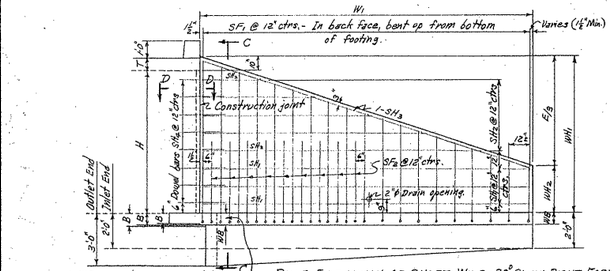


PLAN OF LONG WING - 30° SKEW RIGHT FORWARD - SHOWING FOOTING REINFORCING

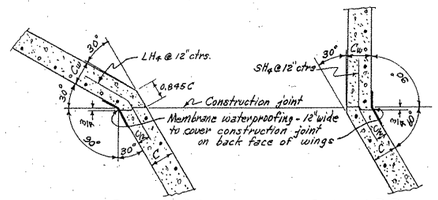


TYPICAL END VIEW OF WING



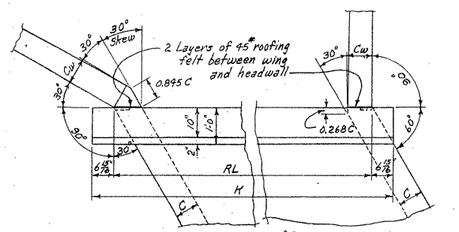


REAR ELEVATION OF SHORT WING - 30° SKEW RIGHT FORWARD SHOWING BACK FACE REINFORCING

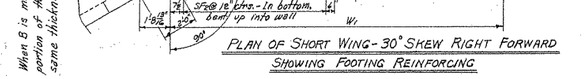


SECTIONS THRU CONSTRUCTION JOINTS

NOTE:- Payment for membrane waterproofing and roofing felt to be included in the price bid for Class S Concrete.



DETAILS AT TOP OF WINGS - 30° SKEW RIGHT FORWARD



PLAN OF SHORT WING - 30° SKEW RIGHT FORWARD SHOWING FOOTING REINFORCING

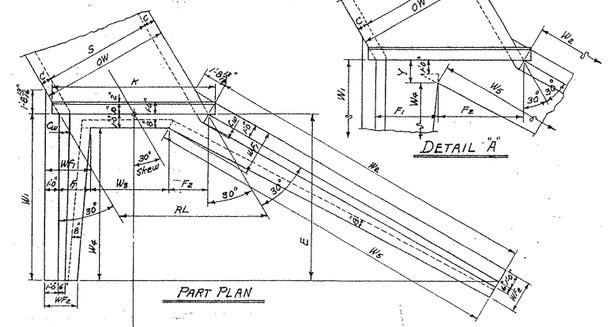
REGULAR WING DIMENSIONS - 3:1 SLOPES

CLEAR HEIGHT OF BOX	THICKNESS OF WING FOOTING	THICKNESS OF WING AT HEAD = C	WINGWALL HEIGHTS		WIDTHS OF WING FOOTINGS		FOOTING PARALLEL WITH HEADWALL		PERPENDICULAR DIST. FROM HDWL TO END OF WING	LENGTHS OF WINGWALLS		INSIDE FOOTING DIMENSION		* QUANTITY PER WING CLASS S CONCRETE			
			AT HEADWALL	AT END OF WING	AT HEADWALL	AT END OF WING	SHORT WING	LONG WING						INLET END		OUTLET END	
														SHORT WING	LONG WING	SHORT WING	LONG WING
H	WB	Cw	WH1	WH2	WF3	WF4	F1	F2	E	W1	W2	W4	W5	CU.YD.	CU.YD.	CU.YD.	CU.YD.
2'	7"	6"	2'-10"	0'-8"	2'-6"	2'-0"	1'-4"	0'-11⅛"	6'-6"	6'-6"	13'-0"	5'-6"	13'-3⅜"	0.752	1.599	0.836	1.717
3'	7"	6"	3'-10"	1'-0"	2'-8"	2'-1½"	1'-8"	1'-7⅛"	8'-6"	8'-6"	17'-0"	7'-6"	17'-10⅜"	1.130	2.340	1.239	2.565
4'	7"	6"	4'-10"	1'-4"	3'-0"	2'-3"	2'-0"	2'-3⅛"	10'-6"	10'-6"	21'-0"	9'-6"	22'-5⅛"	1.577	3.270	1.711	3.552
5'	7"	6"	5'-10"	1'-8"	3'-4"	2'-4½"	2'-4"	2'-11⅛"	12'-6"	12'-6"	25'-0"	11'-6"	27'-0½"	2.093	4.341	2.252	4.680
		7"	5'-10"	1'-8"	3'-4"	2'-4½"	2'-4"	2'-11⅛"	12'-6"	12'-6"	25'-0"	11'-6"	27'-0½"	2.179	4.524	2.337	4.862
⊛ 6'	8"	7"	6'-10"	2'-0"	3'-8"	2'-6"	2'-8"	3'-7⅛"	14'-6"	14'-6"	29'-0"	13'-6"	31'-7⅛"	2.908	6.029	3.092	6.419
		7½"	6'-10"	2'-0"	3'-8"	2'-6"	2'-8"	3'-7⅛"	14'-6"	14'-6"	29'-0"	13'-6"	31'-7⅛"	2.944	6.147	3.150	6.549
		8"	6'-10"	2'-0"	3'-8"	2'-6"	2'-8"	3'-7⅛"	14'-6"	14'-6"	29'-0"	13'-6"	31'-7⅛"	3.025	6.272	3.208	6.667
7'	8½"	7½"	7'-10"	2'-4"	4'-2"	2'-7½"	3'-2"	4'-7⅛"	16'-6"	16'-6"	33'-0"	15'-6"	36'-5⅜"	3.811	7.895	4.019	8.350
		8"	7'-10"	2'-4"	4'-2"	2'-7½"	3'-2"	4'-7⅛"	16'-6"	16'-6"	33'-0"	15'-6"	36'-5⅜"	3.887	8.057	4.095	8.512
⊛ 8'	9"	8"	8'-10"	2'-8"	4'-8"	2'-9"	3'-8"	5'-7⅛"	18'-6"	18'-6"	37'-0"	17'-6"	41'-4⅛"	4.874	10.097	5.107	10.612

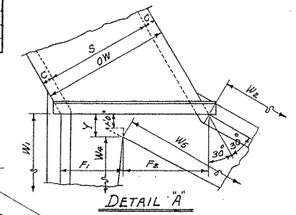
* Quantity per wing does not include headwall or that portion of apron or toewall for the length W_5.
⊛ See Table "A" for special values of F_1 & F_2 and W_4 & W_5 for Single 4x6, 5x7 and 6x8 Box Culverts.

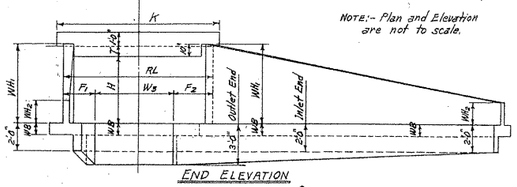
TABLE "A" - DIMENSIONS FOR DETAIL "A"

S	H	F1	F2	W3	Y	W4	W5
4'	6'	2'-7⅞"	3'-3⅜"	0"	1'-1⅞"	13'-4⅛"	31'-3⅜"
5'	7'	3'-1⅞"	4'-1"	0"	1'-3⅜"	15'-2⅜"	35'-10⅜"
6'	8'	3'-7⅞"	4'-10⅛"	0"	1'-4⅝"	17'-1⅛"	40'-6"



NOTE:- Plan and Elevation are not to scale.





END ELEVATION

SINGLE BARREL CULVERT - 30° SKEW RIGHT FORWARD

Details of Culvert with 30° Skew Left Forward is reversed, see Drawing No. W-X30.

TYPICAL WING DETAILS

NOTE:-
For remainder of General Plans and Elevations of Single, Double, Triple, Quadruple and Quintuple Span Culverts, see Std. Drawing No. W-X30.
For values of RL, K and W_5 for each box, see above Std. also.

MEMBRANE:- A membrane waterproofing 12" wide, consisting of three mappings of waterproofing asphalt and two alternate layers of treated cotton fabric shall be applied to the back face of wing to cover the construction joints of wings.

QUANTITIES

CLEAR SPAN	CLEAR HEIGHT	THICKNESS OF WING AT HEADWALL	THICKNESS OF WING FOOTING	⊛ REINFORCING STEEL - FOR 4 WINGS	CLASS S CONCRETE - 4 WINGS HEADWALLS, WINGWALLS, FOOTINGS, TOEWALLS AND APRONS				
					SINGLE BARREL CULVERT	DOUBLE BARREL CULVERT	TRIPLE BARREL CULVERT	QUADRUPLE BARREL CULVERT	QUINTUPLE BARREL CULVERT
S	H	Cw	WB	LB.	CU.YD.	CU.YD.	CU.YD.	CU.YD.	CU.YD.
4'	2'	6"	7"	141	5.80	6.90	8.01	9.12	10.23
	3'	6"	7"	213	8.08	9.18	10.29	11.40	12.51
	4'	6"	7"	327	10.78	11.88	12.99	14.10	15.21
	5'	6"	7"	460	13.90	15.00	16.11	17.22	18.32
	6'	7"	8"	762	18.85	19.99	21.13	22.27	23.41
5'	3'	6"	7"	213	8.33	9.47	11.01	12.36	13.70
	4'	6"	7"	327	11.03	12.36	13.71	15.06	16.40
	5'	6"	7"	460	14.14	15.48	16.83	18.17	19.52
	6'	7"	8"	762	19.11	20.48	21.86	23.24	24.62
	7'	7½"	8½"	1474	24.51	25.94	27.35	28.75	30.16
6'	3'	6"	7"	213	8.57	10.17	11.73	13.33	14.92
	4'	6"	7"	327	11.27	12.86	14.43	16.03	17.62
	5'	6"	7"	460	14.38	15.98	17.55	19.15	20.73
	6'	7"	8"	762	19.35	20.98	22.59	24.21	25.83
	7'	7½"	8½"	1474	24.79	26.44	28.08	29.73	31.38
	8'	8"	9"	1870	31.15	32.87	34.51	36.17	37.83
7'	4'	6"	7"	327	11.52	13.37	15.19	17.05	18.85
	5'	6"	7"	460	14.63	16.49	18.31	20.16	21.97
	6'	7"	8"	762	19.61	21.48	23.32	25.20	27.04
	7'	7½"	8½"	1474	25.05	26.94	28.82	30.71	32.59
	8'	8"	9"	1870	31.47	33.37	35.25	37.16	39.05
8'	4'	6"	7"	327	11.77	13.89	15.97	18.09	20.12
	5'	7"	7"	460	15.46	17.60	19.70	21.83	23.89
	6'	7"	8"	762	19.86	21.98	24.05	26.17	28.20
	7'	7½"	8½"	1474	25.30	27.46	29.58	31.73	33.81
	8'	8"	9"	1870	31.72	33.88	36.00	38.16	40.27
9'	5'	7"	7"	460	15.72	18.13	20.47	22.87	25.15
	6'	7½"	8"	762	20.50	22.93	25.29	27.71	30.01
	7'	7½"	8½"	1474	25.55	27.98	30.34	32.76	35.07
	8'	8"	9"	1870	31.97	34.39	36.76	39.18	41.49
10'	5'	7"	7"	460	15.98	18.65	21.25	23.80	26.92
	6'	7½"	8"	762	20.74	23.45	26.07	28.64	31.28
	7'	7½"	8½"	1474	25.81	28.50	31.12	33.70	36.34
	8'	8"	9"	1870	32.22	34.91	37.54	40.12	42.76
11'	6'	8"	8"	762	21.39	24.38	27.25	30.11	—
	7'	8"	8½"	1474	26.55	29.53	32.41	35.27	—
	8'	8"	9"	1870	32.47	35.45	38.33	41.19	—
12'	6'	8"	8"	762	21.66	24.93	28.05	31.20	—
	7'	8"	8½"	1474	26.81	30.08	33.21	36.36	—
	8'	8"	9"	1870	32.73	35.99	39.13	42.28	—

⊛ For reinforcing steel in Headwalls and Aprons, see Drawing Nos. of Barrel Sections listed below.

GENERAL NOTES:-

CONCRETE:- All concrete to be Class S, and shall be poured in the dry. All exposed corners to have ¾" chamfers.
REINFORCING STEEL:- Reinforcing steel to be deformed bars of intermediate or hard grade.
CONSTRUCTION JOINTS:- Construction joints between wingwall, footings and sidewalls shall be only where shown on plans.
SPECIFICATIONS:- Arkansas State Highway Commission Standard Specifications for Highway Construction and applicable Special Provisions.
UNIT STRESSES:-
Class S Concrete (n=10) 1200#/□"
Reinforcing steel 20,000#/□"

NOTE:-
This drawing to be used in conjunction with Standard Barrel Sections, Drawing Nos.-

SINGLES	DOUBLES	TRIPLES	QUADRUPLES	QUINTUPLES
R-130X-0	R-230X-01	R-330X-01	R-430X-01	R-530X-01
	R-230X-02	R-330X-02	R-430X-02	R-530X-02
R-130X-1	R-230X-1	R-330X-1	R-430X-1	R-530X-1
	R-230X-2	R-330X-2		

BAR LIST FOR ONE SHORT AND ONE LONG WING - 2 EACH REQUIRED

CLEAR HEIGHT	WING LOCATION	SF1 & LF1 BENT In bottom of footing, bent up into back face of wing. One bar (or two bars) of each length							SF2 & LF2 BENT In bottom of footing, bent up into back face of wing. Alt. with F1 bars.						SF3 & LF3 STRAIGHT Longitudinal in top of wing footing heel.			SF4 & LF4 STRAIGHT Longitudinal in bottom of wing footing toe.		
		SIZE	SPACING	NO. READ	LENGTHS VARY MIN.	MAX.	X MIN.	X MAX.	SIZE	SPACING	NO. READ	LENGTH	X	Y	SIZE	NO. READ	LENGTH	SIZE	NO. READ	LENGTH
H	SHORT OR LONG						Y MIN.	Y MAX.												
2'	Short	#3	12"	7	1'-7"	3'-11"	0'-8"	1'-0"	3'-0"	—	—	—	—	—	#3	1	9'-0"	#3	2	8'-0"
	Long	#3	12"	14	1'-5"	3'-11"	0'-8"	1'-0"	6'-10"	3'-0"	—	—	—	—	#3	1	15'-6"	#3	2	15'-6"
3'	Short	#3	12"	9	2'-1"	5'-3"	0'-10"	1'-4"	1'-9"	4'-0"	—	—	—	—	#3	1	11'-0"	#3	2	10'-6"
	Long	#3	12"	18	1'-11"	5'-3"	0'-10"	1'-4"	1'-2"	4'-0"	—	—	—	—	#3	1	19'-4"	#3	2	20'-2"
4'	Short	#3	12"	11	2'-6"	6'-7"	0'-11"	1'-8"	1'-9"	5'-0"	—	—	—	—	#3	1	13'-0"	#3	3	12'-0"
	Long	#3	12"	22	2'-4"	6'-6"	0'-11"	1'-7"	1'-6"	5'-0"	—	—	—	—	#3	1	23'-6"	#3	3	24'-6"
5'	Short	#3	12"	13	2'-11"	7'-11"	1'-0"	2'-0"	2'-0"	6'-0"	#3	12"	3	3'-6"	1'-11"	2'-6"	#3	1	15'-0"
	Long	#3	12"	26	2'-9"	7'-10"	1'-0"	1'-11"	1'-10"	6'-0"	#3	12"	6	3'-6"	1'-11"	2'-6"	#3	1	27'-6"
6'	Short	#4	12"	15	3'-6"	9'-4"	1'-2"	2'-6"	2'-5"	7'-1"	#3	12"	3	4'-6"	1'-4"	3'-3"	#3	1	17'-0"
	Long	#4	12"	30	3'-4"	9'-3"	1'-2"	2'-5"	2'-3"	7'-1"	#3	12"	6	4'-6"	1'-4"	3'-3"	#3	2	16'-8"
7'	Short	#4	12"	17	3'-11"	10'-10"	1'-8"	2'-10"	2'-9"	8'-1"	#4	12"	6	5'-6"	1'-7"	4'-0"	#4	1	19'-0"
	Long	#4	12"	34	3'-9"	10'-8"	1'-8"	2'-8"	2'-7"	8'-1"	#4	12"	12	5'-6"	1'-7"	4'-0"	#4	2	18'-8"
8'	Short	#4	12"	19	4'-6"	12'-5"	1'-5"	3'-4"	3'-2"	9'-2"	#4	12"	9	6'-6"	1'-10"	4'-9"	#4	1	21'-0"
	Long	#4	12"	38	4'-4"	12'-3"	1'-5"	3'-2"	3'-0"	9'-2"	#4	12"	18	6'-6"	1'-10"	4'-9"	#4	2	20'-8"

CLEAR HEIGHT	WING LOCATION	SH1 & LH1 STRAIGHT Horizontal in back face of wing.				SH2 & LH2 STRAIGHT Horizontal in back face of wing. One bar of each length.				SH3 & LH3 In back face of wing at top - on slope.			SH4 & LH4 BENT Dowels thru construction joint at headwall.					BAR BENDING DIAGRAM	QUANTITY REINFORCING STEEL PER WING - LBS.	
		SIZE	SPACING	NO. READ	LENGTH	SIZE	SPACING	NO. READ	LENGTHS VARY MAX.	MIN.	SIZE	NO. READ	LENGTH	SIZE	SPACING	NO. READ	LENGTH	X	SF5 & SF6 LF5 & LF6 Y 3" Pin X	SHORT WING	LONG WING
H	SHORT OR LONG																		SH4 & LH4 X X 1/2		
2'	Short	#3	12"	1	6'-3"	#3	12"	1	—	3'-3"	#3	1	6'-7"	#3	12"	2	2'-8"	1'-4"	NOTE:- Dimensions are to bar centers.	29.7	45.6
	Long	#3	12"	1	12'-8"	#3	12"	1	—	6'-6"	#3	1	12'-11"	#3	12"	2	"	"			
3'	Short	#3	12"	2	8'-3"	#3	12"	2	6'-3"	3'-3"	#3	1	8'-8"	#3	12"	3	"	"		37.0	69.5
	Long	#3	12"	2	16'-8"	#3	18"	2	12'-6"	6'-6"	#3	1	16'-11"	#3	12"	3	"	"			
4'	Short	#3	12"	1	10'-3"	#3	12"	3	9'-3"	3'-3"	#3	1	10'-9"	#3	12"	4	"	"		56.2	107.2
	Long	#3	12"	1	20'-8"	#3	12"	3	18'-6"	6'-6"	#3	1	21'-0"	#3	12"	4	"	"			
5'	Short	#3	12"	2	12'-3"	#3	12"	3	9'-3"	3'-3"	#3	1	12'-11"	#3	12"	5	"	"		78.0	152.2
	Long	#3	12"	2	24'-6"	#3	12"	3	18'-6"	6'-6"	#3	1	25'-1"	#3	12"	5	"	"			
6'	Short	#3	12"	2	14'-3"	#3	12"	4	12'-3"	3'-3"	#3	1	15'-0"	#3	12"	6	"	"		127.8	253.1
	Long	#3	12"	4	15'-2"	#3	12"	4	24'-6"	6'-6"	#3	2	15'-6"	#3	12"	6	2'-8"	1'-4"			
7'	Short	#4	12"	2	16'-3"	#4	12"	5	15'-3"	3'-3"	#4	1	17'-1"	#4	12"	7	3'-6"	1'-9"		267.0	989.8
	Long	#4	12"	4	17'-2"	#4	12"	5	30'-6"	6'-6"	#4	2	17'-5"	#4	12"	7	"	"			
8'	Short	#4	12"	2	18'-3"	#4	12"	5	15'-3"	3'-3"	#4	1	19'-3"	#4	12"	8	"	"		312.9	622.3
	Long	#4	12"	6	19'-2"	#4	12"	5	30'-6"	6'-6"	#4	2	19'-6"	#4	12"	8	3'-6"	1'-9"			

NOTE:- Bars for short wing shall be marked with prefix letter "S", while those for long wing shall be marked with letter "L".

* Length without splice. Bars over 28'-0" length may be spliced. (1'-8" lgs.)

REVISIONS:- Membrane Added. 5-10-66 W.C.H.

Designed By:- W.C.H. 5-13-63 Checked By:- EBWS 8-19-63
Drawn By:- W.C.H. 7-26-63 Checked By:- DMT 7-15-68
Quantities By:- W.C.H. 1-7-69 Checked By:-

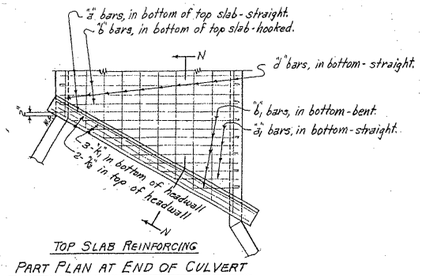
CLASS S CONCRETE

ARKANSAS STATE HIGHWAY COMMISSION
DETAILS OF STANDARD WINGS
FOR
REINFORCED CONCRETE BOX CULVERTS
30° SKEW

4', 5', 6', 7', 8', 9', 10', 11' & 12' SPANS — 3:1 SLOPES.
SINGLES, DOUBLES, TRIPLES, QUADRUPLES & QUINTUPLES. — ALL DEPTHS OF COVER FOR H = 8'-0" OR LESS

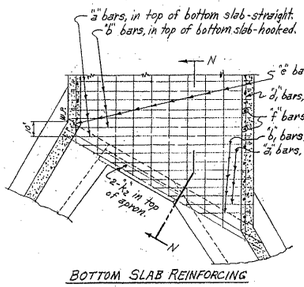
STANDARD DRAWING No. W-X303-1

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



TOP SLAB REINFORCING

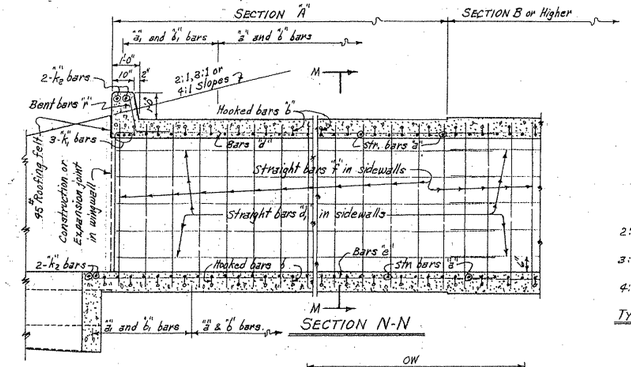
PART PLAN AT END OF CULVERT

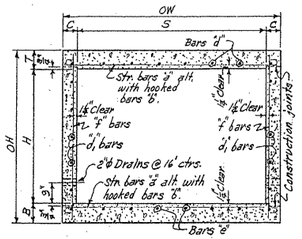


BOTTOM SLAB REINFORCING

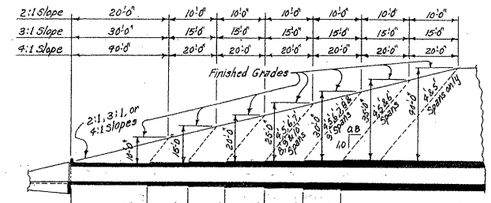
PART PLAN AT END OF CULVERT

NOTE:- The "d", "d₁" and "a" bars vary in length. They should extend 1'-9" min. into SECTION "B".





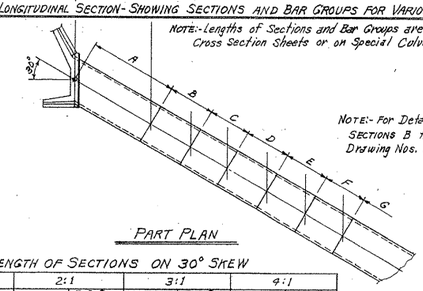
TYPICAL SECTION M-M



2:1 Slope =	SECTIONS	A=12'-0"	B=6'-0"	C=6'-0"	D=6'-0"	E=6'-0"	F=6'-0"	MID-SECTION G-Varies	These lengths are perpendicular to ℄ of roadway. See Table of Skew Lengths below.
	Bar Group	A	B	C	D	E	F	G	
3:1 Slope =	SECTIONS	A=22'-0"	B=11'-0"	C=11'-0"	D=11'-0"	E=11'-0"	F=11'-0"	MID-SECTION G-Varies	
	Bar Group	A	B	C	D	E	F	G	
4:1 Slope =	SECTIONS	A=32'-0"	B=16'-0"	C=16'-0"	D=16'-0"	E=16'-0"	F=16'-0"	MID-SECTION G-Varies	
	Bar Group	A	B	C	D	E	F	G	

TYPICAL LONGITUDINAL SECTION - SHOWING SECTIONS AND BAR GROUPS FOR VARIOUS DEPTHS OF COVER

NOTE:- Lengths of Sections and Bar Groups are to be shown on Cross Section Sheets or on Special Culvert Layout Sheet.



PART PLAN

NOTE:- For Details and Bar Lists for SECTIONS B thru G, see Barrel Drawing Nos. R-100X-X.1 or R-100X-X.2.

LENGTH OF SECTIONS ON 30° SKEW

SLOPE	2:1		3:1		4:1	
SECTIONS	A	B, C, D, E & F	A	B, C, D, E & F	A	B, C, D, E & F
LENGTHS	13'-10⅛"	6'-11⅝"	25'-8⅜"	12'-8⅜"	36'-11⅛"	18'-5⅜"

NOTE:- Minimum ℄ Length of SECTION "A" on 30° Skew = (0.288675 OW+2").

SECTIONS AND BAR GROUPS TO BE USED FOR VARIOUS DEPTHS OF COVER

DEPTHS OF COVER	SECTIONS & BAR GROUPS FOR END SECTIONS A	B	C	D	E	F	MID-SECTION AND BAR GROUP
5.0' to 9.5'	A						A
10.0' to 19.5'	A						B
15.0' to 19.5'	A	B					C
20.0' to 29.5'	A	B	C				D
25.0' to 29.5'	A	B	C	D			E
30.0' to 39.5'	A	B	C	D	E		F
35.0' to 90.0'	A	B	C	D	E	F	G

OR ALT.

DEPTHS OF COVER	SECTIONS & BAR GROUPS FOR END SECTIONS A	B	C	D	E	F	MID-SECTION AND BAR GROUP
5.0' to 9.5'	A						A
10.0' to 19.5'	A						B
15.0' to 19.5'	A	B					C
20.0' to 29.5'	A	2@C					D
25.0' to 29.5'	A	B	2@D				E
30.0' to 39.5'	A	2@C		2@E			F
35.0' to 90.0'	A	B	2@D		2@F		G

BAR SIZE	PIN DIAM.	K	ADD FOR 2 HOOKS	BENDING DIAGRAM FOR BARS "b"
#4	2"	4"	0'-10⅝"	K, Pin diam., X
#5	2½"	4½"	0'-11⅝"	
#6	3"	5"	1'-2"	
#7	3½"	5½"	1'-4"	

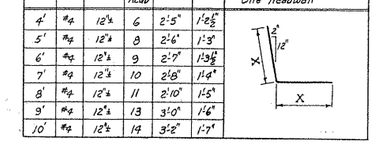
BAR SIZE	PIN DIAM.	K	ADD FOR 1 HOOK	BENDING DIAGRAM FOR BARS "b₁"
#4	2"	4"	0'-5⅞"	K, Pin diam., X
#5	2½"	4½"	0'-5¾"	
#6	3"	5"	0'-7"	
#7	3½"	5½"	0'-8"	

Note:- Dimensions are to centers of bars. ("b" and "b₁")

DOWEL BARS FOR ONE HEADWALL

SPAN	SIZE	SPACING	No. REQD	LENGTH	X
4'	#4	12"±	6	2'-5"	1'-2½"
5'	#4	12"±	8	2'-6"	1'-3"
6'	#4	12"±	9	2'-7"	1'-3½"
7'	#4	12"±	10	2'-8"	1'-4"
8'	#4	12"±	11	2'-10"	1'-5"
9'	#4	12"±	13	3'-0"	1'-6"
10'	#4	12"±	14	3'-2"	1'-7"

Dowel bars "r" in One Headwall



DESIGN LIVE LOAD

H20-S16 LOADING A.A.S.H.O. 1961

AND

SPECIAL MILITARY LOADING

Two 24,000 Lb. Axles @ 4'-0" ctrs.

UNIT STRESSES:-

Class S Concrete (n=10) 1200#/□"

Reinforcing Steel 20,000#/□"

GENERAL NOTES

CONCRETE:- All concrete to be Class S, and shall be poured in the dry. All exposed corners to have ¾" chamfers.

REINFORCING STEEL:- Reinforcing to be deformed bars of intermediate or hard grade.

CONSTRUCTION JOINTS:- Construction joints between wingwalls, sidewalls and slabs shall be only where shown on plans.

SPECIFICATIONS:- Arkansas State Highway Commission Standard Specifications for Highway Construction and applicable Special Provisions.

BAR LIST FOR SECTION "A" ON 30° SKEW – ONE END ONLY.

SECTION "A" & BAR GROUP "A"

2:1 = 13'-10⅛" , 3:1 = 25'-8⅜" , 4:1 = 36'-11⅛"

0'-0" TO 10'-0" MAXIMUM.

SECTION & BAR GROUP	LENGTH OF SECTION	DEPTH OF COVER	CLEAR SPAN	CLEAR HEIGHT	"a" bars STRAIGHT In Top and Bottom Slabs of Barrel. SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	"a₁" bars STRAIGHT In Top and Bottom Slab of Barrel - (two of each Length.) SIZE	SPACING	No. REQ'D	LENGTH
A	2:1 = 13'-10⅛"	0'-0"	1@4'	2'	#4	12"	27	49	73	4'-9"	#4	12"	2	3'-0"
				3'			27	49	73	"			2	"
				4'			27	49	73	"			2	"
				5'			27	49	73	"			2	"
				6'			27	49	73	4'-11"			2	3'-2"
			1@5'	3'			25	49	73	6'-9"			4	4'-0"
				4'			25	49	73	"			4	"
				5'	#5	12"	25	49	73	"	#5	12"	4	4'-2"
				6'			25	49	73	6'-10"			4	4'-3"
				7'			25	49	73	6'-10"			4	4'-3"
			1@6'	3'			25	49	71	6'-9"			4	5'-0"
				4'			25	49	71	"			4	"
				5'	#5	12"	25	49	71	"	#5	12"	4	5'-2"
				6'			25	49	71	6'-11"			4	5'-3"
				7'			25	49	71	7'-1"			4	5'-4"
				8'			25	49	71	7'-1"			4	5'-4"
			1@7'	4'			25	47	71	7'-9"			6	6'-0"
				5'			25	47	71	"			6	"
				6'	#5	12"	25	47	71	7'-11"	#5	12"	6	6'-2"
				7'			25	47	71	8'-0"			6	6'-3"
				8'			25	47	71	8'-1"			6	6'-4"
				9'			25	47	71	8'-3"			6	6'-6"
			1@8'	4'			25	47	71	8'-9"			6	7'-0"
				5'			25	47	71	8'-11"			6	"
				6'	#6	12"	25	47	71	9'-0"	#6	12"	6	7'-1"
				7'			25	47	71	9'-1"			6	7'-2"
				8'			25	47	71	9'-3"			6	7'-4"
				9'			25	47	71	9'-5"			6	7'-6"
			1@9'	4'			25	47	71	9'-9"			6	8'-0"
				5'			25	47	71	9'-11"			6	"
				6'	#6	12"	25	47	71	10'-0"	#6	12"	6	8'-1"
				7'			25	47	71	10'-1"			6	8'-2"
				8'			25	47	71	10'-3"			6	8'-4"
				9'			25	47	71	10'-5"			6	8'-6"
				10'			25	47	71	10'-7"			6	8'-8"
			1@10'	5'			25	51	75	11'-1"			8	9'-0"
				6'			25	51	75	10'-10"			8	"
				7'	#6	11"	25	51	75	10'-11"	#6	11"	8	9'-1"
				8'			25	51	75	10'-11"			8	9'-1"
				9'			25	51	75	10'-11"			8	9'-1"
				10'			25	51	75	10'-11"			8	9'-1"
				11'			25	51	75	10'-7"			8	9'-0"
B	3:1 = 25'-8⅜"	0'-0"	1@4'	5'			23	65	69	10'-11"			10	9'-2"
				6'			23	65	69	11'-0"			10	9'-3"
				7'			23	65	69	"			10	"
			1@5'	5'			23	65	69	11'-11"			10	9'-9"
				6'	#5	12"	23	65	69	12'-0"	#5	12"	10	9'-10"
				7'			23	65	69	12'-1"			10	9'-11"
				8'			23	65	69	12'-3"			10	10'-1"
				9'			23	65	69	12'-5"			10	10'-3"
			1@6'	6'			23	65	69	12'-10"			10	10'-7"
				7'	#6	12"	23	65	69	12'-11"	#6	12"	10	10'-8"
				8'			23	65	69	13'-1"			10	10'-10"
				9'			23	65	69	13'-3"			10	11'-0"
				10'			23	65	69	13'-5"			10	11'-2"
			1@7'	6'			23	67	69	13'-10"			10	11'-6"
				7'	#7	12"	23	67	69	13'-11"	#7	12"	10	11'-7"
				8'			23	67	69	14'-1"			10	11'-9"
				9'			23	67	69	14'-3"			10	11'-11"
				10'			23	67	69	14'-5"			10	12'-1"
				11'			23	67	69	14'-7"			10	12'-3"
			1@8'	7'			23	67	69	14'-11"			10	12'-7"
				8'			23	67	69	15'-0"			10	12'-8"
				9'			23	67	69	15'-2"			10	12'-10"
				10'			23	67	69	15'-4"			10	13'-0"
				11'			23	67	69	15'-6"			10	13'-2"
				12'			23	67	69	15'-8"			10	13'-4"
C	4:1 = 36'-11⅛"	0'-0"	1@4'	5'			21	65	69	12'-12"			10	13'-9"
				6'			21	65	69	12'-13"			10	13'-10"
				7'			21	65	69	"			10	"
			1@5'	5'			21	65	69	12'-9"			10	13'-6"
				6'	#5	12"	21	65	69	12'-10"	#5	12"	10	13'-7"
				7'			21	65	69	12'-11"			10	13'-8"
				8'			21	65	69	13'-1"			10	13'-10"
				9'			21	65	69	13'-3"			10	14'-0"
			1@6'	6'			21	65	69	13'-8"			10	14'-5"
				7'	#6	12"	21	65	69	13'-9"	#6	12"	10	14'-6"
				8'			21	65	69	13'-11"			10	14'-8"
				9'			21	65	69	14'-1"			10	14'-10"
				10'			21	65	69	14'-3"			10	15'-0"
				11'			21	65	69	14'-5"			10	15'-2"
			1@7'	6'			21	67	69	14'-10"			10	15'-6"
				7'	#7	12"	21	67	69	14'-11"	#7	12"	10	15'-7"
				8'			21	67	69	15'-1"			10	15'-9"
				9'			21	67	69	15'-3"			10	15'-11"
				10'			21	67	69	15'-5"			10	16'-1"
				11'			21	67	69	15'-7"			10	16'-3"
				12'			21	67	69	15'-9"			10	16'-5"

SECTION & BAR GROUP	"b" bars BENT - See Diagrams of Right. In Top and Bottom Slabs of Barrel - hooked. Alternate with "a" bars. SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	"b₁" bars BENT - See Diagrams of Right. In Top and Bottom Slabs of Barrel - one end hooked. (two of each Length) Alternate with "a₁" bars. SIZE	SPACING	No. REQ'D	LENGTH MAX.	MIN.	X MAX.	MIN.
A	#4	12"	25	49	71	5'-7"	#4	12"	4	4'-3"	2'-6"	3'-10"	2'-1"
			25	49	71	"			4	"	"	"	"
			25	49	71	"			4	"	"	"	"
			25	49	71	"			4	"	"	"	"
			25	49	71	5'-9"			4	4'-10½"	2'-9"	4'-10"	2'-9"
			25	49	71	"			4	"	"	"	"
			25	49	71	"			4	"	"	"	"
			25	49	71	6'-8"			4	5'-2"	3'-5"	5'-0"	3'-3"
			25	49	71	"			4	"	"	"	"
			25	49	71	"			4	"	"	"	"
			25	47	71	7'-10"			6	5'-6"	3'-10"	5'-10"	3'-9"
			25	47	71	"			6	"	"	"	"
			25	47	71	"			6	"	"	"	"
			25	47	71	8'-10"			6	6'-7"	3'-11"	6'-10"	3'-11"
			25	47	71	9'-1"			6	6'-8"	3'-12"	6'-11"	3'-12"
			25	47	71	9'-3"			6	6'-9"	3'-13"	6'-12"	3'-13"
			25	47	71	9'-5"			6	6'-10"	3'-14"	6'-13"	3'-14"
			23	47	69	8'-10"			8	7'-5"	3'-11"	6'-10"	3'-11"
			23	47	69	"			8	"	"	"	"
			23	47	69	9'-10"			8	7'-7"	4'-1"	7'-10"	3'-6"
			23	47	69	9'-11"			8	7'-8"	4'-2"	7'-11"	3'-7"
			23	47	69	9'-13"			8	7'-9"	4'-3"	7'-12"	3'-8"
			23	47	69	9'-15"			8	7'-11"	4'-5"	7'-14"	3'-10"
			23	47	69	10'-8"			8	8'-5"	3'-2"	7'-10"	3'-7"
			23	47	69	10'-9"			8	8'-7"	3'-4"	8'-0"	2'-9"
			23	47	69	"			8	"	"	"	"
			23	47	69	10'-7"			8	8'-9"	3'-5"	8'-1"	2'-10"
			23	47	69	10'-8"			8	8'-10"	3'-6"	8'-2"	2'-11"
			23	47	69	10'-10"			8	8'-11"	3'-8"	8'-4"	3'-1"
			23	47	69	10'-12"			8	8'-13"	3'-10"	8'-6"	3'-3"
			21	49	75	11'-8"			10	9'-9"	3'-5"	9'-7"	2'-9"
			21	49	75	"			10	9'-10"	3'-6"	9'-8"	2'-10"
			21	49	75	"			10	"	"	"	"
			21	49	75	11'-9"			10	9'-11"	3'-7"	9'-9"	2'-11"
			21	49	75	11'-6"			10	10'-1"	3'-9"	9'-15"	3'-1"
			21	49	75	11'-8"			10	10'-3"	3'-11"	9'-17"	3'-3"
			21	49	75	11'-10"			10	10'-5"	4'-1"	9'-19"	3'-5"
B	#4	12"	21	65	69	12'-2"	#4	12"	10	10'-8"	3'-8"	10'-0"	3'-0"
			21	65	69	12'-3"			10	10'-9"	3'-9"	10'-1"	3'-1"
			21	65	69	"			10	"	"	"	"
			21	65	69	12'-8"			10	10'-10"	3'-10"	10'-2"	3'-2"
			21	65	69	12'-9"			10	11'-0"	4'-0"	10'-4"	3'-4"
			21	65	69	12'-11"			10	11'-2"	4'-2"	10'-6"	3'-6"
			21	65	69	13'-0"			10	11'-4"	4'-4"	10'-8"	3'-8"
			21	65	69	13'-2"			10	11'-6"	4'-6"	10'-10"	3'-10"
			21	65	69	13'-4"			10	11'-8"	4'-8"	10'-12"	3'-12"
			21	65	69	13'-6"			10	11'-10"	4'-10"	10'-14"	3'-14"
C	#4	12"	21	65	69	12'-12"	#4	12"	10	10'-8"	3'-8"	10'-0"	3'-0"
			21	65	69	12'-13"			10	10'-9"	3'-9"	10'-1"	3'-1"
			21	65	69	"			10	"	"	"	"
			21	65	69	12'-9"			10	10'-10"	3'-10"	10'-2"	3'-2"
			21	65	69	12'-10"			10	11'-0"	4'-0"	10'-4"	3'-4"
			21	65	69	12'-12"			10	11'-2"	4'-2"	10'-6"	3'-6"
			21	65	69	12'-14"			10	11'-4"	4'-4"	10'-8"	3'-8"
			21	65	69	12'-16"			10	11'-6"	4'-6"	10'-10"	3'-10"
			21	65	69	12'-18"			10	11'-8"	4'-8"	10'-12"	3'-12"
			21	65	69	12'-20"			10	11'-10"	4'-10"	10'-14"	3'-14"

SECTION & BAR GROUP	"d" bars STRAIGHT Longitudinal in Top Slab of Barrel. SIZE	SPACING	No. REQ'D	LENGTH	"d₁" bars STRAIGHT Longitudinal in Sidewalls SIZE	SPACING	No. REQ'D	LENGTH	"e" bars STRAIGHT Longitudinal in Bottom Slab of Barrel. SIZE	SPACING	No. REQ'D	LENGTH
A	#4	12"	5		#4	12"	4		#4	12"	5	
			5				6				5	
			5				8				5	
			5				10				5	
			5				12				5	
	#5	12"	6		#5	12"	6		#5	12"	6	
			6				8				6	
			6				10				6	
			6				12				6	
			6				14				6	
	#6	12"	7		#6	12"	6		#6	12"	7	
			7				8				7	
			7				10				7	
			7				12				7	
			7				14				7	
	#7	12"	8		#7	12"	8		#7	12"	8	
			8				10				8	
			8				12				8	
			8				14				8	
			8				16				8	
			8				18				8	
			9				8				9	
			9				10				9	
			9				12				9	
			9				14				9	
			9				16				9	
			9				18				9	
			9				20				9	
			10				10				10	
			10				12				10	
			10				14				10	
			10				16				10	
			10				18				10	
			10				20				10	
			10				22				10	
			11				10				11	
			11				12				11	
			11				14				11	
			11				16				11	
			11				18				11	
			11				20				11	
			11				22				11	
			11				24				11	

SECTION & BAR GROUP	"f" bars STRAIGHT Verticals in Sidewalls. SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	"k₁" bars STRAIGHT In Bottom of Headwall. SIZE	No. REQ'D	LENGTH	"k₂" bars STRAIGHT In Top of Headwall and Apron. (2 Each) SIZE	No. REQ'D	LENGTH
A	#4	12"	28	51	74	2'-10"	#5	3	5'-6"	#5	4	6'-8"
			28	51	74	3'-10"		3	"		4	"
			28	51	74	4'-10"		3	"		4	"
			28	51	74	5'-10"		3	"		4	"
			28	51	74	6'-10"		3	5'-8"		4	6'-10"
	#5	12"	28	51	74	3'-11"	#5	3	6'-8"	#5	4	7'-10"
			28	51	74	4'-11"		3	"		4	"
			28	51	74	5'-11"		3	"		4	"
			28	51	74	6'-11"		3	6'-10"		4	8'-0"
			28	51	74	7'-11"		3	6'-11"		4	8'-1"
	#6	12"	28	51	74	3'-10"	#6	3	7'-10"	#6	4	9'-0"
			28	51	74	5'-0"		3	"		4	"
			28	51	74	6'-0"	#5	3	8'-0"	#5	4	9'-2"
			28	51	74	7'-0"		3	"		4	"
			28	51	74	8'-0"		3	8'-1"		4	9'-3"
	#7	12"	28	51	74	3'-11"		3	8'-2"		4	9'-4"
			28	51	74	5'-11"		3	9'-0"		4	10'-2"
			28	51	74	6'-11"		3	"		4	"
			28	51	74	7'-11"	#6	3	9'-2"	#6	4	10'-4"
			28	51	74	8'-11"		3	9'-3"		4	10'-5"
			28	51	74	9'-11"		3	9'-4"		4	10'-6"
			28	51	74	10'-11"		3	9'-6"		4	10'-8"
			28	51	74	5'-3"		3	10'-1"		4	11'-3"
			28	51	74	6'-3"		3	10'-2"		4	11'-4"
			28	51	74	7'-3"		3	"		4	"
	#6	12"	28	51	74	8'-3"	#6	3	10'-5"	#6	4	11'-7"
			28	51	74	9'-3"		3	10'-6"		4	11'-8"
			28	51	74	10'-3"		3	10'-8"		4	11'-10"
			28	51	74	11'-3"		3	10'-11"		4	12'-0"
			28	51	74	6'-5"		3	11'-5"		4	12'-7"
			28	51	74	7'-5"		3	11'-7"		4	12'-9"
			28	51	74	8'-5"		3	"		4	"
	#7	12"	28	51	74	9'-5"	#7	3	11'-8"	#7	4	12'-10"
			28	51	74	10'-5"		3	11'-10"		4	13'-0"
			28	51	74	11'-5"		3	12'-1"		4	13'-2"
			28	51	74	12'-5"		3	12'-3"		4	13'-4"
			28	51	74	6'-7"		3	12'-7"		4	13'-9"
			28	51	74	7'-7"		3	12'-8"		4	13'-10"
			28	51	74	8'-7"		3	"		4	"
	#7	12"	28	51	74	9'-7"	#7	3	12'-10"	#7	4	14'-0"
			28	51	74	10'-7"		3	13'-0"		4	14'-2"
			28	51	74	11'-7"		3	13'-2"		4	14'-4"
			28	51	74	12'-7"		3	13'-4"		4	14'-6"
			28	51	74	13'-7"		3	13'-7"		4	14'-9"

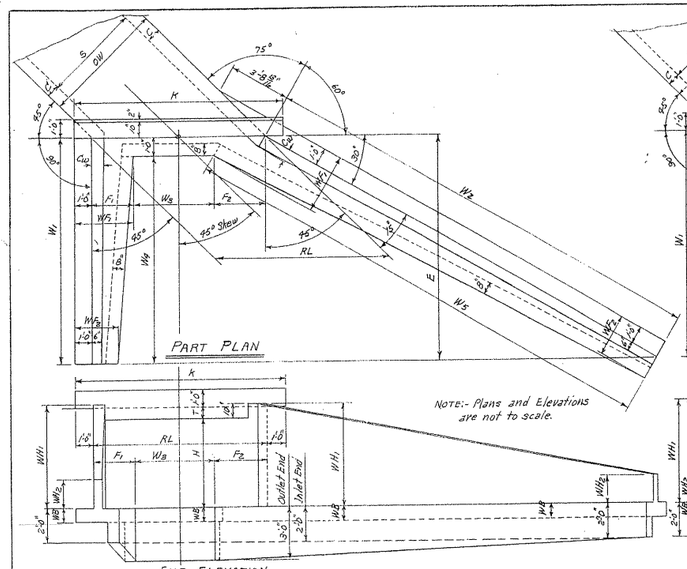
Lengths Vary - Average Length; 2:1 = 15'-6" , 3:1 = 27'-1" , 4:1 = 38'-8"

Lengths Vary - Average Length; 2:1 = 16'-8" , 3:1 = 28'-3" , 4:1 = 39'-10"

▼ These bars are in the skewed portion of barrel only. The length of "a" bars and overall length X of "b₁" bars vary by 1'-9" for 12" spacing and 1'-7" for 11" spacing.

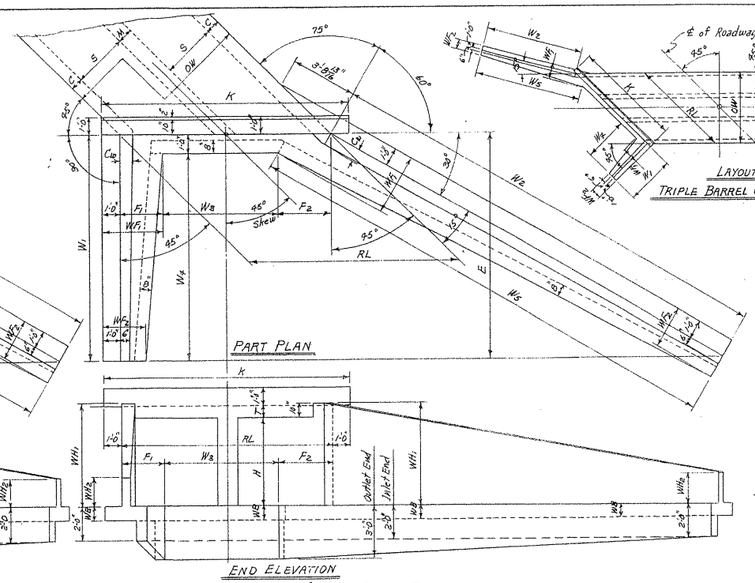
MAX. DESIGN DEPTH OF COVER	CLEAR SPANS	CLEAR HEIGHT	SQ.FT. OPENING	OVERALL WIDTH	THICKNESS OF TOP SLAB	THICKNESS OF SIDEWALLS	THICKNESS OF BOTTOM SLAB	OVERALL HEIGHT	ROADWAY LENGTH	LENGTH OF HEADWALL	* QUANTITIES - ONE SECTION "A" CLASS S CONCRETE BARREL ONLY 2:1	3:1	4:1	REINFORCING STEEL BARREL, APRON AND HEADWALL. 2:1	3:1	4:1
D	S	H	A	OW	T	C	B	OH	AL	K	CU.YD.	CU.YD.	CU.YD.	LB.	LB.	LB.
SECTION "A" = 10'-0"	1@4'	2'	8	5'-0"	6½"	6"	6½"	3'-1"	5'-9¼"	6'-11⅛"	3.81	6.98	10.16	953	764	1074
		3'	12	5'-0"		6"		4'-1"	"	"	4.32	7.32	11.53	992	834	1175
		4'	16	5'-0"		6"		5'-1"	"	"	4.84	8.86	12.89	531	904	1276
		5'	20	5'-0"		6"		6'-1"	"	"	5.35	9.80	14.24	571

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



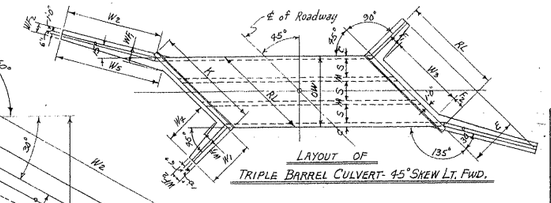
SINGLE BARREL CULVERT-45° SKEW RIGHT FORWARD

Details of Culvert with 45° Skew Left Forward is reversed, see Layout below.

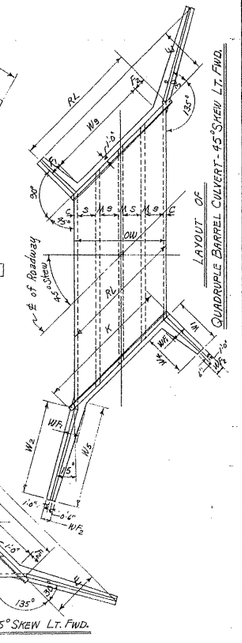


DOUBLE BARREL CULVERT-45° SKEW RIGHT FORWARD

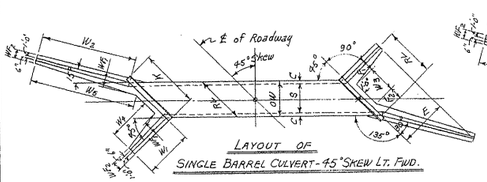
Details of Culvert with 45° Skew Left Forward is reversed, see Layout below.



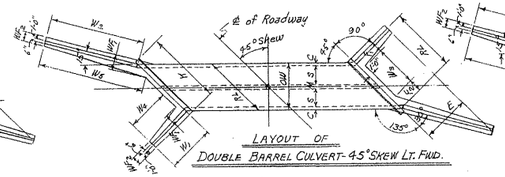
LAYOUT OF TRIPLE BARREL CULVERT-45° SKEW LT. FWD.



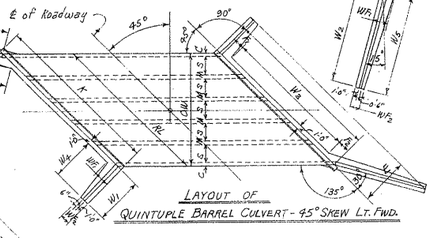
LAYOUT OF QUADRUPLE BARREL CULVERT-45° SKEW LT. FWD.



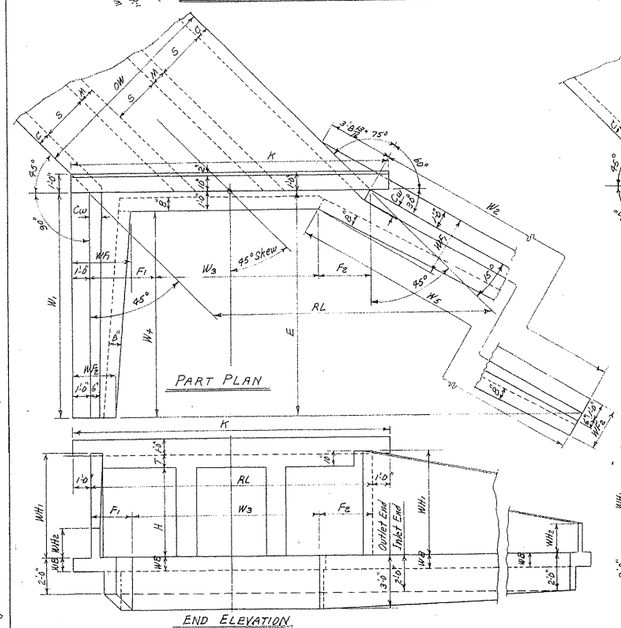
LAYOUT OF SINGLE BARREL CULVERT-45° SKEW LT. FWD.



LAYOUT OF DOUBLE BARREL CULVERT-45° SKEW LT. FWD.

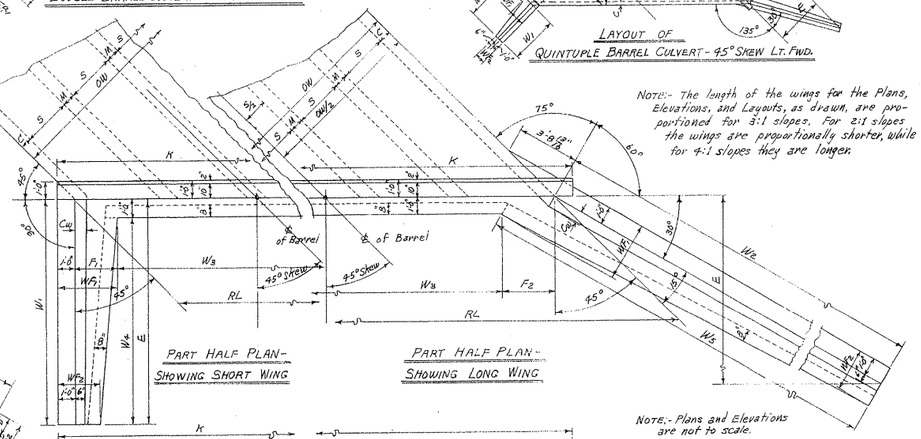


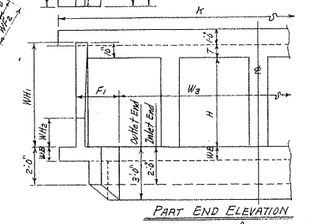
LAYOUT OF QUINTUPLE BARREL CULVERT-45° SKEW LT. FWD.



TRIPLE BARREL CULVERT-45° SKEW RIGHT FORWARD

Details of Culvert with 45° Skew Left Forward is reversed, see Layout at top center of sheet.

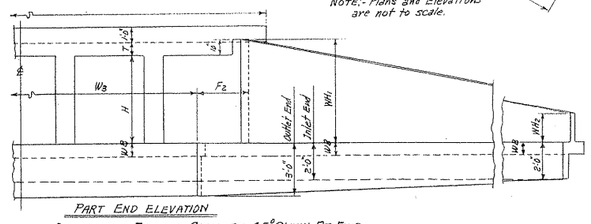




PART END ELEVATION

QUADRUPLE BARREL CULVERT-45° SKEW RT. FWD.

Details of Culvert with 45° Skew Left Forward is reversed, see Layout at above center.



PART END ELEVATION

QUINTUPLE BARREL CULVERT-45° SKEW RT. FWD.

Details of Culvert with 45° Skew Left Forward is reversed, see Layout above.

USE WITH DRAWING No.	CLEAR SPAN S	CLEAR HEIGHT H	SUM OF FILLETS F_1+F_2	ROADWAY LENGTH RL = OW x 1.41421				HEADWALL LENGTH K = RL+(2'-0")				APRON DIMENSION W_3 = RL-(F_1+F_2)			
				SINGLE BARREL CULVERT				DOUBLE BARREL CULVERT				TRIPLE BARREL CULVERT			
				OW	RL	K	W_3	OW	RL	K	W_3	OW	RL	K	W_3
W-X452-1, W-X453-1 OR W-X454-1. (FOR H=8'-0" OR LESS)	4'	2'	2'-3 1/8"	5'-0"	7'-0 7/8"	9'-0 7/8"	4'-9 7/8"	9'-8"	13'-8"	15'-8"	11'-4 7/8"	14'-4"	20'-3 1/8"	22'-3 1/8"	18'-8"
		3'	3'-3 1/8"	5'-0"	"	"	3'-9 7/8"	9'-8"	"	"	10'-4 7/8"	14'-4"	"	"	17'-0"
		4'	4'-3 1/8"	5'-0"	"	"	2'-9 7/8"	9'-8"	"	"	9'-4 7/8"	14'-4"	"	"	16'-0"
		5'	5'-3 1/8"	5'-0"	7'-0 7/8"	9'-0 7/8"	1'-9 7/8"	9'-8"	13'-8"	15'-8"	8'-4 7/8"	14'-4"	20'-3 1/8"	22'-3 1/8"	15'-0"
		6'	6'-3 1/8"	5'-0"	7'-3 5/8"	9'-3 5/8"	1'-0 5/8"	9'-11"	14'-0 1/8"	16'-0 1/8"	7'-0 1/8"	14'-8"	20'-8 7/8"	22'-8"	14'-5 3/8"
	5'	3'	3'-3 1/8"	6'-0"	8'-5 3/8"	10'-5 3/8"	5'-2 3/8"	11'-8"	16'-6"	18'-6"	13'-2 3/8"	17'-4"	24'-6 1/8"	26'-6 1/8"	21'-3"
		4'	4'-3 1/8"	6'-0"	"	"	4'-2 3/8"	11'-8"	"	"	12'-2 3/8"	17'-4"	"	"	20'-3"
		5'	5'-3 1/8"	6'-0"	8'-5 7/8"	10'-5 7/8"	3'-2 7/8"	11'-8"	16'-6"	18'-6"	11'-2 7/8"	17'-4"	24'-6 1/8"	26'-6 1/8"	19'-3"
		6'	6'-3 1/8"	6'-2"	8'-8 3/8"	10'-8 3/8"	2'-5 3/8"	11'-11"	16'-10 1/8"	18'-10 1/8"	10'-7"	17'-8"	24'-10 1/8"	27'-0"	18'-8 3/8"
		7'	7'-3 1/8"	6'-3"	8'-10 1/8"	10'-10 1/8"	1'-0 1/8"	12'-1"	17'-1"	19'-1"	9'-3 1/8"	17'-11"	25'-4"	27'-4"	17'-4 1/8"
	6'	3'	3'-3 1/8"	7'-0"	9'-10 3/8"	11'-10 3/8"	6'-7 3/8"	13'-8"	19'-3 3/8"	21'-9"	16'-0 3/8"	20'-4"	28'-9 1/8"	30'-9"	25'-3 3/8"
		4'	4'-3 1/8"	7'-0"	"	"	5'-7 3/8"	13'-8"	"	"	15'-0 3/8"	20'-4"	"	"	24'-3 3/8"
		5'	5'-3 1/8"	7'-0"	9'-10 3/8"	11'-10 3/8"	4'-7 3/8"	13'-8"	19'-3 3/8"	21'-9"	14'-0 3/8"	20'-4"	28'-9 1/8"	30'-9"	23'-3 3/8"
		6'	6'-3 1/8"	7'-2"	10'-1 7/8"	12'-1 7/8"	3'-10 7/8"	13'-11"	19'-8 7/8"	21'-8 7/8"	13'-5"	20'-8"	29'-2 7/8"	31'-2 7/8"	22'-11 1/8"
		7'	7'-3 1/8"	7'-3"	10'-3"	12'-3"	2'-5 7/8"	14'-1"	19'-11"	21'-11"	12'-1 7/8"	20'-11"	29'-7"	31'-7"	21'-9 7/8"
		8'	8'-3 1/8"	7'-4"	10'-4 7/8"	12'-4 7/8"	1'-1 7/8"	14'-2"	20'-0 7/8"	22'-0 7/8"	10'-9 7/8"	21'-0"	29'-8 7/8"	31'-8"	20'-5"
	7'	4'	4'-3 1/8"	8'-0"	11'-3 3/8"	13'-3 3/8"	7'-0 1/8"	15'-8"	22'-1 7/8"	24'-1 7/8"	17'-10 1/8"	23'-4"	33'-0"	35'-0"	28'-8 3/8"
		5'	5'-3 1/8"	8'-0"	11'-3 3/8"	13'-3 3/8"	6'-0 1/8"	15'-9"	22'-1 7/8"	24'-1 7/8"	16'-10 1/8"	23'-4"	33'-0"	35'-0"	27'-8 3/8"
		6'	6'-3 1/8"	8'-2"	11'-6 5/8"	13'-6 5/8"	5'-3 3/8"	15'-11"	22'-6 5/8"	24'-6"	16'-2 3/8"	23'-8"	33'-5 5/8"	35'-5 5/8"	27'-2 1/8"
		7'	7'-3 1/8"	8'-3"	11'-8"	13'-8"	4'-3 1/8"	16'-1"	22'-9"	24'-9"	14'-11 3/8"	23'-11"	33'-9 3/8"	35'-11 1/8"	26'-0 3/8"
		8'	8'-3 1/8"	8'-4"	11'-9 3/8"	13'-9 3/8"	2'-6 3/8"	16'-2"	22'-10 3/8"	24'-10 3/8"	13'-7"	24'-0"	33'-11 1/8"	35'-11 1/8"	24'-8"
	8'	4'	4'-3 1/8"	9'-0"	12'-0 3/8"	14'-0 3/8"	8'-5 1/8"	17'-8"	24'-11 1/8"	26'-11 1/8"	20'-9 1/8"	26'-9"	37'-2 7/8"	39'-3"	32'-11 3/8"
		5'	5'-3 1/8"	9'-2"	12'-11 1/8"	14'-11 1/8"	7'-8 3/8"	17'-11"	25'-1"	27'-1"	20'-0 3/8"	26'-8"	37'-9 1/8"	39'-9 1/8"	32'-1 5/8"
		6'	6'-3 1/8"	9'-2"	12'-11 1/8"	14'-11 1/8"	6'-8 3/8"	17'-11"	25'-1"	27'-1"	19'-0 3/8"	26'-8"	37'-9 1/8"	39'-9 1/8"	31'-5 1/8"
		7'	7'-3 1/8"	9'-3"	13'-1"	15'-1"	5'-3 3/8"	18'-1"	25'-4 1/8"	27'-1"	17'-9 3/8"	26'-11"	38'-0 1/8"	40'-0 1/8"	30'-8 3/8"
		8'	8'-3 1/8"	9'-4"	13'-2 1/8"	15'-2 1/8"	3'-11 1/8"	18'-2"	25'-8 1/8"	27'-8 1/8"	16'-5"	27'-0"	38'-2 1/8"	40'-2 1/8"	28'-11"
	9'	5'	5'-3 1/8"	10'-2"	14'-3 1/8"	16'-3 1/8"	9'-7 3/8"	19'-11"	28'-2"	30'-2"	22'-10 3/8"	28'-8"	41'-1 1/8"	43'-1 1/8"	36'-8 3/8"
		6'	6'-3 1/8"	10'-3"	14'-6"	16'-6"	8'-2 3/8"	20'-1"	28'-4 1/8"	30'-4 1/8"	22'-1 5/8"	28'-11"	42'-3 3/8"	44'-3 3/8"	36'-0"
		7'	7'-3 1/8"	10'-3"	14'-6"	16'-6"	6'-8 3/8"	20'-1"	28'-4 1/8"	30'-4 1/8"	20'-7 1/8"	29'-11"	42'-3 3/8"	44'-3 3/8"	34'-1 5/8"
		8'	8'-3 1/8"	10'-4"	14'-7 3/8"	16'-7 3/8"	5'-5 3/8"	20'-2"	28'-6 1/8"	30'-6 1/8"	19'-3"	30'-0"	42'-5 3/8"	44'-5"	33'-2"
	10'	5'	5'-3 1/8"	11'-2"	15'-9 3/8"	17'-9 3/8"	10'-6 1/8"	21'-11"	31'-0"	33'-0"	25'-8 3/8"	32'-8"	46'-2 3/8"	48'-2 3/8"	40'-11"
		6'	6'-3 1/8"	11'-3"	15'-11"	17'-11"	9'-7 3/8"	22'-1"	31'-2 3/8"	33'-2 3/8"	24'-11 1/8"	32'-11"	46'-6 3/8"	48'-6 3/8"	39'-5 3/8"
		7'	7'-3 1/8"	11'-3"	15'-11"	17'-11"	8'-1 3/8"	22'-1"	31'-2 3/8"	33'-2 3/8"	23'-5 1/8"	32'-11"	46'-6 3/8"	48'-6 3/8"	38'-0 3/8"
		8'	8'-3 1/8"	11'-4"	16'-0 3/8"	18'-0 3/8"	6'-9 3/8"	22'-2"	31'-4 3/8"	33'-4 3/8"	22'-1"	33'-0"	46'-8"	48'-8"	37'-1 3/8"
	11'	6'	6'-3 1/8"	12'-0"	17'-0 1/8"	19'-0 1/8"	11'-2 7/8"	24'-2"	34'-2 7/8"	36'-2"	27'-11"	36'-0"	50'-11"	52'-11"	44'-7 3/8"
		7'	7'-3 1/8"	12'-0"	"	"	9'-8 1/8"	24'-2"	"	"	26'-5"	36'-0"	"	"	43'-1 3/8"
		8'	8'-3 1/8"	12'-0"	"	"	8'-2 1/8"	24'-2"	"	"	24'-11"	36'-0"	"	"	41'-7 3/8"
	12'	6'	6'-3 1/8"	13'-1"	18'-10 1/8"	20'-10 1/8"	12'-7 7/8"	26'-2"	37'-0 7/8"	39'-0"	30'-8 3/8"	39'-0"	55'-1 7/8"	57'-1 7/8"	48'-10 3/8"
		7'	7'-3 1/8"	13'-1"	"	"	11'-1 7/8"	26'-2"	"	"	29'-2 3/8"	39'-0"	"	"	47'-4 3/8"
		8'	8'-3 1/8"	13'-1"	"	"	9'-7 7/8"	26'-2"	"	"	27'-8 3/8"	39'-0"	"	"	45'-10 3/8"
W-X452-2, W-X453-2 OR W-X454-2 (FOR H=9'-0" & OVER.)	7'	9'	10'-9 3/8"	8'-6"	12'-0 1/8"	14'-0 1/8"	1'-3"	16'-5"	23'-2 5/8"	25'-2 5/8"	12'-5 3/8"	24'-4"	34'-5"	36'-5"	23'-7 3/8"
	8'	9'	10'-9 3/8"	9'-6"	13'-5 3/8"	15'-5 3/8"	2'-8"	18'-5"	26'-0 5/8"	28'-0 5/8"	15'-3 1/8"	27'-9"	38'-7 7/8"	40'-8"	27'-10 3/8"
		10'	12'-3 3/8"	9'-8"	13'-8"	15'-8"	1'-9 3/8"	18'-8"	26'-9 3/8"	28'-9 3/8"	14'-1 5/8"	27'-8"	39'-1 1/8"	41'-1 1/8"	26'-10 3/8"
	9'	9'	10'-9 3/8"	10'-6"	14'-10 1/8"	16'-10 1/8"	4'-1"	20'-5"	28'-10 1/8"	30'-10 1/8"	18'-1 5/8"	30'-9"	42'-10 3/8"	44'-10 3/8"	32'-1 1/8"
		10'	12'-3 3/8"	10'-8"	15'-1"	17'-1"	2'-9 3/8"	20'-8"	29'-2 3/8"	31'-2 3/8"	16'-11 5/8"	30'-8"	43'-1 3/8"	45'-1 3/8"	30'-8"
		11'	13'-3 3/8"	10'-10"	15'-3 3/8"	17'-3 3/8"	1'-6 3/8"	20'-10"	29'-5 5/8"	31'-5 5/8"	15'-8 3/8"	30'-10"	43'-3 3/8"	45'-3 3/8"	29'-10"
	10'	9'	10'-9 3/8"	11'-6"	16'-3 5/8"	18'-3 5/8"	5'-6"	22'-5"	31'-8 3/8"	33'-8 3/8"	20'-11 1/8"	33'-9"	47'-1 7/8"	49'-1 7/8"	35'-1 3/8"
		10'	12'-3 3/8"	11'-8"	16'-6"	18'-6"	4'-2 3/8"	22'-8"	32'-0 3/8"	34'-0 3/8"	19'-9 1/8"	33'-8"	47'-7 7/8"	49'-7 7/8"	35'-4 1/8"
		11'	13'-9 3/8"	11'-10"	16'-8 7/8"	18'-8 7/8"	2'-11 5/8"	22'-10"	32'-2 3/8"	34'-2 3/8"	18'-6 3/8"	33'-10"	47'-10 1/8"	49'-10 1/8"	34'-1"
		12'	15'-3 3/8"	12'-0"	16'-11 7/8"	18'-11 7/8"	1'-8 3/8"	23'-0"	32'-4 1/8"	34'-4 1/8"	17'-3"	34'-0"	48'-1"	50'-1"	32'-9 3/8"
	11'	9'	10'-9 3/8"	12'-6"	17'-10 1/8"	19'-10 1/8"	6'-10 5/8"	24'-5"	34'-6 1/8"	36'-6 1/8"	28'-9 1/8"	36'-9"	51'-4 5/8"	53'-4 5/8"	40'-11 5/8"
		10'	12'-3 3/8"	12'-8"	17'-11"	19'-11"	5'-7 3/8"	24'-8"	34'-10 1/8"	36'-10 1/8"	22'-7 5/8"	36'-8"	51'-10 1/8"	53'-10 1/8"	39'-7"
		11'	13'-9 3/8"	12'-10"	18'-1 3/8"	20'-1 3/8"	4'-4 5/8"	24'-10"	35'-1 3/8"	37'-1 3/8"	21'-4 1/8"	36'-10"	52'-1 1/8"	54'-1"	38'-3 1/8"
		12'	15'-3 3/8"	13'-0"	18'-2 5/8"	20'-2 5/8"	3'-1 3/8"	25'-0"	35'-2 5/8"	37'-2 5/8"	20'-1"	37'-0"	52'-3 5/8"	54'-3 5/8"	37'-0 3/8"
	12'	9'	10'-9 3/8"	13'-6"	19'-1 7/8"	21'-1"	8'-3 7/8"	26'-5"	37'-1 7/8"	39'-1 7/8"	26'-7"	39'-9"	55'-7 7/8"	57'-7 7/8"	44'-10 3/8"
		10'	12'-3 3/8"	13'-8"	19'-3 3/8"	21'-3"	7'-0 3/8"	26'-8"	37'-10 3/8"	39'-10 3/8"	25'-5 5/8"	39'-8"	56'-1 1/8"	58'-1 1/8"	43'-10"
		11'	13'-9 3/8"	13'-10"	19'-6 3/8"	21'-6 3/8"	5'-10 3/8"	26'-10"	37'-11 3/8"	39'-11 3/8"	24'-2 5/8"	39'-10"	56'-4"	58'-4"	42'-6 3/8"
		12'	15'-3 3/8"	14'-0"	19'-9 3/8"	21'-9 3/8"	4'-6 3/8"	27'-0"	38'-2 5/8"	40'-2 5/8"	22'-11"	40'-0"	56'-6 7/8"	58'-6 7/8"	41'-3 5/8"

NOTE:- This drawing to be used in conjunction with Standard Wing Drawings for 45° Skews for each slope as listed below.

2:1 Slopes	3:1 Slopes	4:1 Slopes
W-X452-1 or W-X452-2	W-X453-1 or W-X453-2	W-X454-1 or W-X454-2.

NOTE:-
This drawing to be used in conjunction with Standard Barrel Sections, Drawing Nos.-

SINGLES	DOUBLES	TRIPLES	QUADRUPLES	QUINTUPLES
R-145X-0	R-245X-01	R-345X-01	R-445X-01	R-545X-01
	R-245X-02	R-345X-02	R-445X-02	R-545X-02
R-145X-1	R-245X-1	R-345X-1	R-445X-1	
	R-245X-2	R-345X-2		

CLASS S CONCRETE

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF STANDARD WINGS FOR REINFORCED CONCRETE BOX CULVERTS 45° SKEW

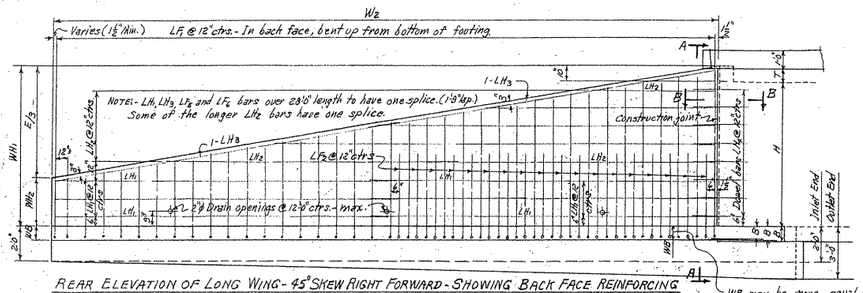
4', 5', 6', 7', 8', 9', 10', 11' & 12' SPANS — 2:1, 3:1 & 4:1 SLOPES

SINGLES, DOUBLES, TRIPLES, QUADRUPLES & QUINTUPLES — ALL DEPTHS OF COVER H= 2', 3', 4', 5', 6', 7', 8', 9', 10', 11' & 12'

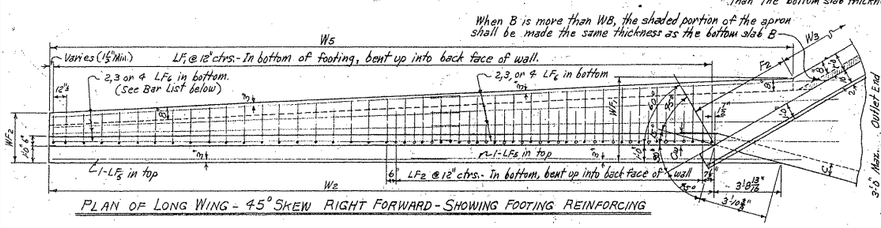
STANDARD DRAWING No. W-X45

Designed by:- W.C.H. 5-16-63 Checked by:-
Drawn by:- W.C.H. 6-15-63 Checked by:- J.E.M. 6-23-63
Quantities by:- Checked by:-

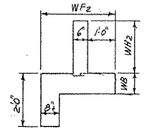
FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



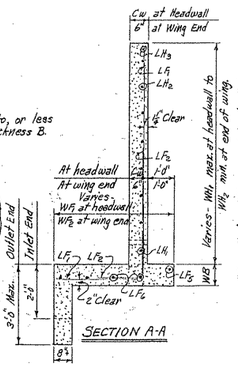
REAR ELEVATION OF LONG WING - 45° SKEW RIGHT FORWARD - SHOWING BACK FACE REINFORCING



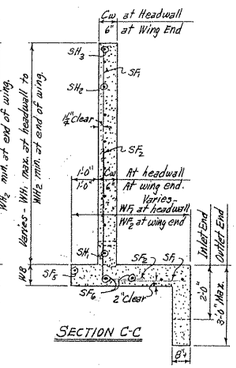
PLAN OF LONG WING - 45° SKEW RIGHT FORWARD - SHOWING FOOTING REINFORCING



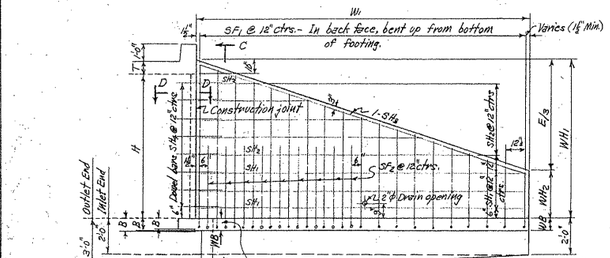
TYPICAL END VIEW OF WING



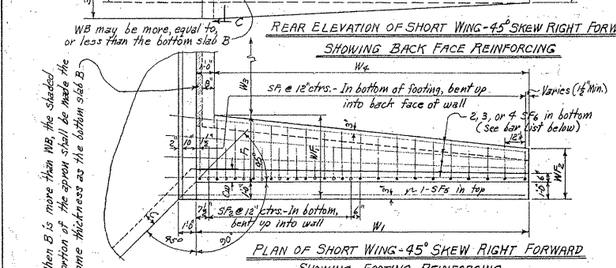
SECTION A-A



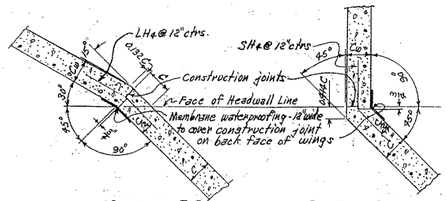
SECTION C-C



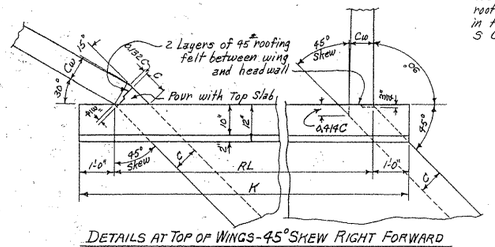
REAR ELEVATION OF SHORT WING - 45° SKEW RIGHT FORWARD - SHOWING BACK FACE REINFORCING



PLAN OF SHORT WING - 45° SKEW RIGHT FORWARD SHOWING FOOTING REINFORCING



SECTIONS THRU CONSTRUCTION JOINTS



DETAILS AT TOP OF WINGS - 45° SKEW RIGHT FORWARD

NOTE:- Payment for the membrane waterproofing and roofing felt to be included in the price bid for Class S Concrete.

REGULAR WING DIMENSIONS - 3:1 SLOPES

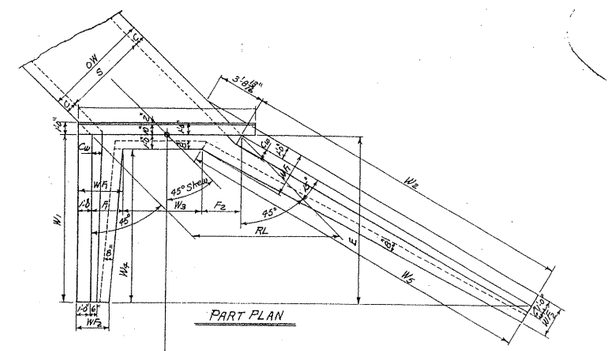
CLEAR HEIGHT OF BOX	THICKNESS OF WING FOOTING	THICKNESS OF WING AT TOP & C	WINGWALL HEIGHTS AT HEADWALL	WINGWALL HEIGHTS AT END OF WING	WIDTHS OF WING FOOTINGS AT HEADWALL	WIDTHS OF WING FOOTINGS AT END OF WING	FOOTING DIMENSION PARALLEL WITH HEADWALL		PERPENDICULAR DIST. FROM HDWL TO END OF WING	LENGTHS OF WINGWALLS		INSIDE FOOTING DIMENSION		* QUANTITY PER WING — CLASS S CONCRETE — INLET END		OUTLET END	
										SHORT WING	LONG WING	SHORT WING	LONG WING	SHORT WING	LONG WING	SHORT WING	LONG WING
H	WB	Cw	WH1	WH2	WF1	WF2	F1	F2	E	W1	W2	W4	W5	CU.YD.	CU.YD.	CU.YD.	CU.YD.
2'	7"	6"	2'-10"	0'-8"	2'-9"	2'-10"	1'-4"	0'-11⅝"	6'-6"	6'-6"	13'-0"	5'-6"	13'-3⅜"	0.793	1.572	0.827	1.791
3'	7"	6"	3'-10"	1'-0"	2'-8"	2'-11½"	1'-8"	1'-7⅝"	8'-6"	8'-6"	17'-0"	7'-6"	17'-10⅜"	1.180	2.369	1.229	2.590
4'	7"	6"	4'-10"	1'-4"	3'-0"	2'-3"	2'-0"	2'-3⅝"	10'-6"	10'-6"	21'-0"	9'-6"	22'-5½"	1.567	3.295	1.700	3.577
5'	7"	6"	5'-10"	1'-8"	3'-9"	2'-4½"	2'-4"	2'-11⅝"	12'-6"	12'-6"	25'-0"	11'-6"	27'-0½"	2.082	4.367	2.241	4.705
		7"	5'-10"	1'-8"	3'-9"	2'-4½"	2'-4"	2'-11⅝"	12'-6"	12'-6"	25'-0"	11'-6"	27'-0½"	2.166	4.551	2.325	4.889
6'	8"	7"	6'-10"	2'-0"	3'-8"	2'-6"	2'-8"	3'-7⅝"	14'-6"	14'-6"	29'-0"	13'-6"	31'-7½"	2.894	6.055	3.078	6.450
		7½"	6'-10"	2'-0"	3'-8"	2'-6"	2'-8"	3'-7⅝"	14'-6"	14'-6"	29'-0"	13'-6"	31'-7½"	2.952	6.180	3.135	6.575
		8"	6'-10"	2'-0"	3'-8"	2'-6"	2'-8"	3'-7⅝"	14'-6"	14'-6"	29'-0"	13'-6"	31'-7½"	3.009	6.305	3.192	6.700
7'	8½"	7½"	7'-10"	2'-4"	4'-0"	2'-7½"	3'-2"	4'-2⅝"	16'-6"	16'-6"	33'-0"	15'-6"	36'-5⅜"	3.794	7.930	9.003	8.385
		8"	7'-10"	2'-4"	4'-0"	2'-7½"	3'-2"	4'-2⅝"	16'-6"	16'-6"	33'-0"	15'-6"	36'-5⅜"	3.870	8.093	9.078	8.598
8'	9"	8"	8'-10"	2'-8"	4'-8"	2'-9"	3'-8"	5'-7½"	18'-6"	18'-6"	37'-0"	17'-6"	41'-4⅝"	4.855	10.136	5.088	10.651

* Quantity per wing does not include headwall or that portion of apron or toewall for the length W5.

QUANTITIES

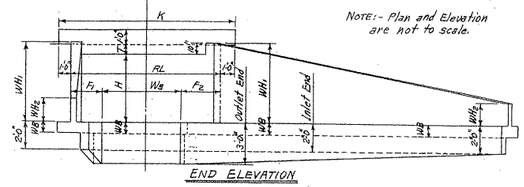
CLEAR SPAN S	CLEAR HEIGHT H	THICKNESS OF WING AT HEADWALL Cw	THICKNESS OF WING FOOTING WB	REINFORCING STEEL ⊕ FOR 4 WINGS LB.	CLASS S CONCRETE - 4 WINGS — HEADWALLS, WINGWALLS, FOOTINGS, TOEWALLS AND APRONS: SINGLE BARREL CULVERT	DOUBLE BARREL CULVERT	TRIPLE BARREL CULVERT	QUADRUPLE BARREL CULVERT	QUINTUPLE BARREL CULVERT
					CU.YD.	CU.YD.	CU.YD.	CU.YD.	CU.YD.
4'	2'	6"	7"	142	6.15	7.50	8.86	10.22	11.58
	3'	6"	7"	214	8.44	9.79	11.14	12.50	13.86
	4'	6"	7"	328	11.13	12.48	13.84	15.20	16.56
	5'	6"	7"	463	14.25	15.60	16.96	18.32	19.68
	6'	7"	8"	763	19.23	20.62	22.02	23.41	24.81
5'	3'	6"	7"	214	8.74	10.38	12.03	13.67	15.32
	4'	6"	7"	328	11.48	13.07	14.72	16.37	18.02
	5'	6"	7"	463	14.55	16.19	17.84	19.49	21.14
	6'	7"	8"	763	19.53	21.21	22.90	24.59	26.28
	7'	7½"	8½"	1475	24.98	26.69	28.41	30.14	31.86
6'	3'	6"	7"	214	9.03	10.99	12.91	14.86	16.79
	4'	6"	7"	328	11.73	13.69	15.60	17.56	19.48
	5'	6"	7"	463	14.85	16.80	18.72	20.68	22.60
	6'	7"	8"	763	19.83	21.82	23.79	25.78	27.76
	7'	7½"	8½"	1475	25.28	27.30	29.31	31.33	33.35
	8'	8"	9"	1872	31.70	33.74	35.75	37.79	39.81
7'	4'	6"	7"	328	12.04	14.21	16.54	18.81	21.02
	5'	6"	7"	463	15.15	17.93	19.65	21.93	24.13
	6'	7"	8"	763	20.14	22.44	24.69	26.99	29.24
	7'	7½"	8½"	1475	25.59	27.91	30.21	32.58	34.83
	8'	8"	9"	1872	32.02	34.36	36.66	38.99	41.31
8'	4'	6"	7"	328	12.35	14.95	17.49	20.08	22.57
	5'	7"	7"	463	16.06	18.67	21.24	23.86	26.37
	6'	7"	8"	763	20.95	23.07	25.64	28.24	30.77
	7'	7½"	8½"	1475	25.90	28.54	31.13	33.78	36.32
	8'	8"	9"	1872	32.33	34.97	37.56	40.21	42.80
9'	5'	7"	7"	463	16.32	19.32	22.18	25.02	27.91
	6'	7½"	8"	763	21.16	24.18	27.02	29.89	32.81
	7'	7½"	8½"	1475	26.21	29.18	32.08	34.94	37.86
	8'	8"	9"	1872	32.43	35.61	38.51	41.37	44.29
10'	5'	7"	7"	463	16.69	19.96	23.14	26.27	29.47
	6'	7½"	8"	763	21.48	24.77	27.99	31.18	34.36
	7'	7½"	8½"	1475	26.53	29.82	33.07	36.19	39.42
	8'	8"	9"	1872	32.95	36.25	39.46	42.62	45.86
11'	6'	8"	8"	763	22.18	25.83	29.35	32.84	——
	7'	8"	8½"	1475	27.33	30.99	34.51	38.01	——
	8'	8"	9"	1872	33.86	36.91	40.43	43.93	——
12'	6'	8"	8"	763	22.50	26.51	30.33	34.19	——
	7'	8"	8½"	1475	27.66	31.66	35.49	39.36	——
	8'	8"	9"	1872	33.58	37.58	41.41	45.27	——

⊕ For reinforcing steel in Headwalls and Aprons, see Drawing Nos. of Barrel Sections listed below.



PART PLAN

NOTE:- Plan and Elevation are not to scale.



END ELEVATION

SINGLE BARREL CULVERT - 45° SKEW RIGHT FORWARD

Details of Culvert with 45° Skew Left Forward is reversed, see Drawing No. W-X45.

TYPICAL WING DETAILS

NOTE:-
For remainder of General Plans and Elevations of Single, Double, Triple, Quadruple and Quintuple-Span Culverts, see Std. Drawing No. W-X45.
For values of RL, K and W3 for each box, see above Std. also.

MEMBRANE:- A membrane waterproofing 12" wide, consisting of three applications of waterproofing asphalt and two alternate layers of treated cotton fabric shall be applied to the back face of wing to cover the construction joints in wings.

NOTE:- Payment for the membrane waterproofing and roofing felt to be included in the price bid for Class S Concrete.

GENERAL NOTES:-

CONCRETE:- All concrete to be Class S, and shall be poured in the dry. All exposed corners to have ¾" chamfers.

REINFORCING STEEL:- Reinforcing steel to be deformed bars of intermediate or hard grade.

CONSTRUCTION JOINTS:- Construction joints between wingwall, footings and sidewalls shall be only where shown on plans.

SPECIFICATIONS:- Arkansas State Highway Commission Standard Specifications for Highway Construction and applicable Special Provisions.

UNIT STRESSES:-
Class S Concrete (n=10) 1200 #/□"
Reinforcing Steel 20,000 #/□"

NOTE:-
This drawing to be used in conjunction with Standard Barrel Sections, Drawing Nos.-

SINGLES	DOUBLES	TRIPLES	QUADRUPLES	QUINTUPLES
R-145X-0	R-245X-01	R-345X-01	R-445X-01	R-545X-01
	R-245X-02	R-345X-02	R-445X-02	R-545X-02
R-145X-1	R-245X-1	R-345X-1	R-445X-1	
	R-245X-2	R-345X-2		

BAR LIST FOR ONE SHORT AND ONE LONG WING — 2 EACH REQUIRED

CLEAR HEIGHT H	WING LOCATION: SHORT OR LONG	SF1 & LF1 BENT — In bottom of footing, bent up into back face of wing. One bar (or two bars) of each length. SIZE	SPACING	NO. REQD	LENGTHS VARY MIN.	MAX.	X MIN.	X MAX.	Y MIN.	Y MAX.	SF2 & LF2 BENT — In bottom of footing, bent up into back face of wing. Alt. with F1 bars SIZE	SPACING	NO. REQD	LENGTH	X	Y
2'	Short	#3	12"	7	1'-7"	3'-11"	0'-8"	1'-0"	1'-0"	3'-0"	—	—	—	—	—	—
	Long	#3	12"	14	1'-5"	3'-11"	0'-8"	1'-0"	0'-10"	3'-0"	—	—	—	—	—	—
3'	Short	#3	12"	9	2'-1"	5'-3"	0'-10"	1'-4"	1'-4"	4'-10"	—	—	—	—	—	—
	Long	#3	12"	18	1'-11"	5'-3"	0'-10"	1'-4"	1'-2"	4'-10"	—	—	—	—	—	—
4'	Short	#3	12"	11	2'-6"	6'-7"	0'-11"	1'-8"	1'-8"	5'-6"	—	—	—	—	—	—
	Long	#3	12"	22	2'-4"	6'-6"	0'-11"	1'-7"	1'-6"	5'-6"	—	—	—	—	—	—
5'	Short	#3	12"	13	2'-11"	7'-11"	1'-0"	2'-0"	2'-0"	6'-10"	#3	12"	3	3'-6"	1'-1"	2'-6"
	Long	#3	12"	26	2'-9"	7'-10"	1'-0"	1'-11"	1'-10"	6'-10"	#3	12"	6	3'-4"	1'-1"	2'-6"
6'	Short	#4	12"	15	3'-6"	9'-4"	1'-2"	2'-4"	2'-5"	7'-11"	#3	12"	3	4'-6"	1'-4"	3'-3"
	Long	#4	12"	30	3'-4"	9'-3"	1'-2"	2'-3"	2'-3"	7'-11"	#3	12"	6	4'-4"	1'-4"	3'-3"
7'	Short	#4	12"	17	3'-11"	10'-10"	1'-3"	2'-10"	2'-9"	8'-11"	#4	12"	6	5'-4"	1'-7"	4'-0"
	Long	#4	12"	34	3'-9"	10'-9"	1'-3"	2'-8"	2'-7"	8'-11"	#4	12"	12	5'-4"	1'-7"	4'-0"
8'	Short	#4	12"	19	4'-6"	12'-5"	1'-5"	3'-4"	3'-2"	9'-10"	#4	12"	9	6'-4"	1'-10"	4'-9"
	Long	#4	12"	38	4'-4"	12'-3"	1'-5"	3'-2"	3'-0"	9'-2"	#4	12"	18	6'-6"	1'-10"	4'-9"

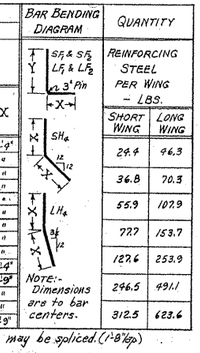
CLEAR HEIGHT H	WING LOCATION: SHORT OR LONG	SF3 & LF3 STRAIGHT — Longitudinal in top of wing footing heel. SIZE	NO. REQD	LENGTH	SF4 & LF4 STRAIGHT — Longitudinal in bottom of wing footing toe. SIZE	NO. REQD	LENGTH	SH1 & LH1 STRAIGHT — Horizontal in back face of wing. SIZE	SPACING	NO. REQD	LENGTH	SH2 & LH2 STRAIGHT — Horizontal in back face of wing. One bar of each length.* SIZE	SPACING	NO. REQD	LENGTHS VARY MAX.	MIN.
2'	Short	#3	1	8'-9"	#3	2	8'-0"	#3	12"	1	6'-3"	#3	12"	1	—	3'-9"
	Long	#3	1	17'-6"	#3	2	15'-6"	#3	12"	1	12'-9"	#3	12"	1	—	6'-6"
3'	Short	#3	1	10'-9"	#3	2	10'-0"	#3	12"	1	8'-3"	#3	12"	2	6'-9"	3'-9"
	Long	#3	1	21'-6"	#3	2	20'-0"	#3	12"	1	16'-9"	#3	12"	2	13'-6"	6'-6"
4'	Short	#3	1	12'-9"	#3	3	12'-0"	#3	12"	1	10'-9"	#3	12"	3	9'-9"	3'-9"
	Long	#3	1	25'-6"	#3	3	24'-0"	#3	12"	1	20'-9"	#3	12"	3	16'-6"	6'-6"
5'	Short	#3	1	14'-6"	#3	3	14'-0"	#3	12"	2	12'-9"	#3	12"	3	9'-9"	3'-9"
	Long	#3	1	29'-6"	#3	6	28'-0"	#3	12"	2	24'-9"	#3	12"	3	19'-6"	6'-6"
6'	Short	#3	1	16'-9"	#3	3	16'-0"	#3	12"	2	16'-9"	#3	12"	4	12'-9"	3'-9"
	Long	#3	1	33'-6"	#3	6	32'-0"	#3	12"	4	28'-6"	#3	12"	4	22'-6"	6'-6"
7'	Short	#3	2	17'-8"	#4	4	18'-0"	#4	12"	2	16'-9"	#4	12"	5	15'-9"	3'-9"
	Long	#3	2	35'-4"	#4	8	36'-0"	#4	12"	4	27'-3"	#4	12"	5	30'-6"	6'-6"
8'	Short	#3	2	19'-8"	#4	4	20'-0"	#4	12"	3	19'-9"	#4	12"	5	18'-9"	3'-9"
	Long	#3	2	39'-4"	#4	8	40'-0"	#4	12"	6	31'-6"	#4	12"	5	36'-6"	6'-6"

CLEAR HEIGHT H	WING LOCATION: SHORT OR LONG	SH3 & LH3 STRAIGHT — In back face of wing at top - on slope SIZE	NO. REQD	LENGTH	SH4 & LH4 BENT — Dowels thru construction joint at headwall. SIZE	SPACING	NO. REQD	LENGTH	X
2'	Short	#3	1	6'-7"	#3	12"	2	2'-8"	1'-9"
	Long	#3	1	12'-11"	#3	12"	2	"	"
3'	Short	#3	1	8'-8"	#3	12"	3	"	"
	Long	#3	1	16'-11"	#3	12"	3	"	"
4'	Short	#3	1	10'-9"	#3	12"	4	"	"
	Long	#3	1	20'-9"	#3	12"	4	"	"
5'	Short	#3	1	12'-11"	#3	12"	5	"	"
	Long	#3	1	25'-0"	#3	12"	5	"	"
6'	Short	#3	1	15'-0"	#3	12"	6	"	"
	Long	#3	1	29'-6"	#3	12"	6	2'-8"	1'-9"
7'	Short	#4	1	17'-11"	#4	12"	7	3'-6"	1'-9"
	Long	#4	2	17'-2"	#4	12"	7	"	"
8'	Short	#4	1	19'-9"	#4	12"	8	"	"
	Long	#4	2	19'-6"	#4	12"	8	3'-6"	1'-9"

NOTE:- Bars for short wing shall be marked with prefix letter "S", while those for long wing shall be marked with letter "L".

* Length without splice. Bars over 28'0" length may be spliced. (1'-8" lap)

BAR BENDING DIAGRAM



QUANTITY — REINFORCING STEEL PER WING - LBS. SHORT WING	LONG WING
29.4	46.3
36.8	70.3
55.9	102.9
77.7	153.7
127.6	253.9
246.5	491.1
312.5	623.6

REVISIONS:- Membrane Added. 5-10-66 W.C.H.

Designed By:- W.C.H. 5-13-63 Checked By:- J.E.M. 7-21-64
Drawn By:- W.C.H. 6-5-64 Checked By:- J.E.M. 7-21-64
Quantities By:- W.C.H. 7-2-64 Checked By:- J.E.M. 7-21-64

CLASS S CONCRETE

ARKANSAS STATE HIGHWAY COMMISSION
DETAILS OF STANDARD WINGS
FOR
REINFORCED CONCRETE BOX CULVERTS
45° SKEW

4', 5', 6', 7', 8', 9', 10', 11' & 12' SPANS — 3:1 SLOPES
SINGLES, DOUBLES, TRIPLES, QUADRUPLES & QUINTUPLES — ALL DEPTHS OF COVER FOR H = 8'-0" OR LESS

STANDARD DRAWING No. W-X453-1

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					

BAR LIST FOR VARIOUS SECTIONS OF BARREL

DIMENSIONS

Section & Bar Group	Lengths of Section D	Depth of Cover S	Clear Span H	Clear Height	"a" bars Straight — In Top and Bottom Slab of Barrel 2 Rod's in Apron and Headwall - Each. Size	Spacing	Number Req'd 3:1	Number Req'd 4:1	Length	"b" bars Bent - See Diagram below. In Bottom of Top Slab bent up over Division Wall - hooked. Alternate with "a" and "c" bars. Size	Spacing	Number Req'd 3:1	Number Req'd 4:1	Length	X	Y	Z
Section "A" & Bar Group "A" 3:1 = 32'-0" 4:1 = 22'-0"	0' TO 10'-0"	2 @ 8'	5'	6'	#5	12"	46	64	17'-8"	#6	12"	20	29	19'-1"	0'-5⅜"	3'-8"	6'-6"
			6'	7'			46	64	17'-8"			20	29	19'-1"	0'-5⅜"	3'-8"	6'-6"
			7'	8'			46	64	17'-11"			20	29	19'-9"	0'-5⅜"	3'-9"	6'-7"
			8'	9'			46	64	17'-11"			20	29	19'-9"	0'-5⅜"	3'-10"	6'-7"
			9'	10'			46	64	18'-2"			20	29	19'-10"	0'-5⅜"	3'-11"	6'-8"
			10'				46	64	18'-5"			20	29	19'-10"	0'-5⅜"	3'-11"	6'-8"
Section "B" & Bar Group "B" 3:1 = 16'-0" 4:1 = 14'-0"	0' TO 15'-0"	2 @ 8'	5'	6'	#5	12"	48	68	21'-10	#6	12"	22	32	23'-9"	0'-7⅜"	4'-6"	7'-11⅜"
			6'	7'			48	68	21'-10"			22	32	23'-9"	0'-7⅜"	4'-7⅜"	7'-11⅜"
			7'	8'			48	68	21'-11"			22	32	23'-10"	0'-7⅜"	4'-7⅜"	8'-0"
			8'	9'			48	68	22'-2"			22	32	23'-10"	0'-7⅜"	4'-8⅜"	8'-1"
			9'	10'			48	68	22'-2"			22	32	24'-10"	0'-8"	4'-8⅜"	8'-2"
			10'				48	68	22'-7"			22	32	24'-10"	0'-8"	4'-8⅜"	8'-2"
			11'				48	68	22'-9"			22	32	24'-9"	0'-8"	4'-8⅜"	8'-4"
Section "C" & Bar Group "C" 3:1 = 11'-0" 4:1 = 14'-0"	10'-0" TO 20'-0"	2 @ 10'	6'	7'	#5	12"	52	74	25'-11"	#6	12"	24	35	27'-8"	0'-8⅜"	5'-2⅜"	9'-6"
			7'	8'			52	74	25'-11"			24	35	27'-8"	0'-8⅜"	5'-2⅜"	9'-6"
			8'	9'			52	74	25'-11"			24	35	27'-8"	0'-8⅜"	5'-2⅜"	9'-6"
			9'	10'			52	74	26'-2"			24	35	27'-10"	0'-8⅜"	5'-2⅜"	9'-7"
			10'	11'			52	74	26'-2"			24	35	28'-1"	0'-8⅜"	5'-2⅜"	9'-8"
			11'	12'			52	74	26'-9"			24	35	28'-2"	0'-8⅜"	5'-2⅜"	9'-8"
			12'				52	74	26'-9"			24	35	28'-2"	0'-8⅜"	5'-2⅜"	9'-10"
Section "D" & Bar Group "D" Varies with Length of Barrel	20'-0" TO 25'-0"	2 @ 8'	5'	6'	#5	12"	22	32	17'-8"	#6	12"	11	16	19'-2"	0'-6⅜"	3'-6"	6'-6"
			6'	7'			22	32	17'-8"			11	16	19'-2"	0'-6⅜"	3'-6"	6'-6"
			7'	8'			22	32	17'-10"			11	16	19'-4"	0'-6⅜"	3'-7"	6'-6⅜"
			8'	9'			22	32	17'-11"			11	16	19'-5"	0'-6⅜"	3'-7"	6'-7"
			9'	10'			22	32	18'-2"			11	16	19'-8"	0'-6⅜"	3'-8"	6'-8"
			10'				22	32	18'-5"			11	16	19'-8"	0'-6⅜"	3'-9"	6'-9"
Section "E" & Bar Group "E" Varies with Length of Barrel	25'-0" TO 30'-0"	2 @ 10'	6'	7'	#5	12"	22	32	21'-10"	#6	12"	11	16	23'-7"	0'-8⅜"	4'-5⅜"	7'-11⅜"
			7'	8'			22	32	21'-10"			11	16	23'-7"	0'-8⅜"	4'-5⅜"	7'-11⅜"
			8'	9'			22	32	21'-11"			11	16	23'-8"	0'-8⅜"	4'-5⅜"	8'-0"
			9'	10'			22	32	22'-2"			11	16	23'-11"	0'-8⅜"	4'-6⅜"	8'-1"
			10'	11'			22	32	22'-5"			11	16	24'-2"	0'-8⅜"	4'-7⅜"	8'-2"
			11'	12'			22	32	22'-7"			11	16	24'-4"	0'-8⅜"	4'-7⅜"	8'-3"
			12'				22	32	22'-9"			11	16	24'-6"	0'-8⅜"	4'-7⅜"	8'-4"
Section "F" & Bar Group "F" Varies with Length of Barrel	30'-0" TO 35'-0"	2 @ 10'	6'	7'	#5	12"	20	30	25'-11"	#6	12"	10	15	28'-8"	0'-10⅜"	5'-1"	9'-6"
			7'	8'			20	30	25'-11"			10	15	28'-11"	0'-10⅜"	5'-1"	9'-6"
			8'	9'			20	30	25'-11"			10	15	28'-11"	0'-10⅜"	5'-1"	9'-6"
			9'	10'			20	30	26'-8"			10	15	28'-3"	0'-10⅜"	5'-2"	9'-7"
			10'	11'			20	30	26'-5"			10	15	28'-6"	0'-10⅜"	5'-3"	9'-8"
			11'	12'			20	30	26'-9"			10	15	28'-10"	0'-10⅜"	5'-3"	9'-9"
			12'				20	30	26'-9"			10	15	28'-10"	0'-10⅜"	5'-3"	9'-10"
Section "G" & Bar Group "G" Varies with Length of Barrel	35'-0" TO 40'-0"	2 @ 10'	6'	7'	#5	12"	22	32	29'-8"	#6	12"	11	16	33'-5"	0'-12⅜"	6'-4"	9'-6"
			7'	8'			22	32	29'-8"			11	16	33'-5"	0'-12⅜"	6'-4"	9'-6"
			8'	9'			22	32	29'-11"			11	16	33'-6"	0'-12⅜"	6'-4"	9'-7"
			9'	10'			22	32	30'-2"			11	16	33'-8"	0'-12⅜"	6'-5"	9'-8"
			10'	11'			22	32	30'-5"			11	16	33'-9"	0'-12⅜"	6'-5"	9'-9"
			11'	12'			22	32	30'-7"			11	16	33'-9"	0'-12⅜"	6'-5"	9'-10"
			12'				22	32	30'-9"			11	16	33'-9"	0'-12⅜"	6'-5"	9'-10"
Section "H" & Bar Group "H" Varies with Length of Barrel	40'-0" TO 45'-0"	2 @ 10'	6'	7'	#5	12"	24	34	33'-7"	#6	12"	12	17	38'-2"	0'-12⅜"	7'-8⅜"	9'-6"
			7'	8'			24	34	33'-7"			12	17	38'-2"	0'-12⅜"	7'-8⅜"	9'-6"
			8'	9'			24	34	33'-10"			12	17	38'-3"	0'-12⅜"	7'-8⅜"	9'-7⅜"
			9'	10'			24	34	34'-3"			12	17	38'-6"	0'-12⅜"	7'-9⅜"	9'-8"
			10'	11'			24	34	34'-5"			12	17	38'-8"	0'-12⅜"	7'-9⅜"	9'-9"
			11'	12'			24	34	34'-7"			12	17	38'-8"	0'-12⅜"	7'-9⅜"	9'-10"
			12'				24	34	34'-9"			12	17	39'-0"	0'-12⅜"	7'-9⅜"	9'-10"
Section "I" & Bar Group "I" Varies with Length of Barrel	45'-0" TO 50'-0"	2 @ 8'	5'	6'	#5	11"			17'-8"	#6	11"			19'-9"	0'-9⅜"	3'-2"	6'-6"
			6'	7'					17'-9"					19'-9"	0'-9⅜"	3'-2"	6'-6⅜"
			7'	8'					18'-0"					19'-9"	0'-9⅜"	3'-3"	6'-7"
			8'	9'					18'-1"					19'-9"	0'-9⅜"	3'-3"	6'-8"
			9'	10'					18'-4"					20'-0"	0'-9⅜"	3'-4"	6'-9"
			10'						18'-7"					20'-3"	0'-9⅜"	3'-5"	6'-10"
Section "J" & Bar Group "J" Varies with Length of Barrel	50'-0" TO 55'-0"	2 @ 10'	6'	7'	#5	12"			21'-10"	#6	12"			24'-1"	0'-10⅜"	4'-0⅜"	8'-0"
			7'	8'					22'-0"					24'-1"	0'-10⅜"	4'-0⅜"	8'-0⅜"
			8'	9'					22'-1"					24'-3"	0'-10⅜"	4'-0⅜"	8'-1⅜"
			9'	10'					22'-4"					24'-6"	0'-10⅜"	4'-1⅜"	8'-2⅜"
			10'	11'					22'-7"					24'-9"	0'-10⅜"	4'-1⅜"	8'-3⅜"
			11'	12'					22'-9"					24'-10"	0'-10⅜"	4'-2⅜"	8'-3"
			12'						22'-10"					25'-0"	0'-10⅜"	4'-2⅜"	8'-3"
Section "K" & Bar Group "K" Varies with Length of Barrel	55'-0" TO 60'-0"	2 @ 10'	6'	7'	#5	12"			25'-11"	#6	12"			28'-3"	0'-11⅜"	4'-5⅜"	9'-6"
			7'	8'					26'-0"					28'-4"	0'-11⅜"	4'-5⅜"	9'-6⅜"
			8'	9'					26'-2"					28'-6"	0'-11⅜"	4'-5⅜"	9'-7⅜"
			9'	10'					26'-5"					28'-9"	0'-11⅜"	4'-6⅜"	9'-8⅜"
			10'	11'					26'-7"					29'-0"	0'-11⅜"	4'-6⅜"	9'-9⅜"
			11'	12'					26'-9"					29'-2"	0'-11⅜"	4'-6⅜"	9'-10⅜"
			12'						26'-11"					29'-3"	0'-11⅜"	4'-7⅜"	9'-10⅜"

Section	"c" bars Straight — In Top and Bottom Slab of Barrel. Alternate with "a" and "b" bars. Size	Spacing	Number Req'd 3:1	Number Req'd 4:1	Length	X	Y	Z	"d" bars Straight — Longitudinal in Top Slab of Barrel. Size	Spacing	No. Req'd	Length	"d₁" bars Straight — Longitudinal in Sidewalls and Division Walls. Size	Spacing	No. Req'd	Length	"e" bars Straight — Longitudinal in Bottom Slab of Barrel. Size	Spacing	Number Req'd	Length	"f" bars Straight — Vertical in Sidewalls and Division Walls. Size	Spacing	Number Req'd 3:1	Number Req'd 4:1	Length
Section "A" & Bar Group "A"	#7	13"	42	60	8'-9"						23		#4	12"	20		#4	12"	23		#4	12"	88	128	6'-9"
			42	60	8'-10"						23				24				23				88	128	7'-9"
			42	60	8'-10"				#4	12"	23				28				23		#5	10"	108	156	8'-6"
			42	60	8'-11"						23				32				23				108	156	9'-4"
			42	60	8'-11"						23				36				23				108	156	10'-4"
			42	60	9'-0"						23				40				23		#6	12"	88	128	11'-6"
Section "B" & Bar Group "B"			44	64	10'-10"						27		#4	12"	24		#4	12"	27		#4	12"	88	128	7'-7"
			44	64	10'-10"						27				28				27				108	156	8'-7"
			44	64	10'-10"						27				32				27		#5	12"	88	128	9'-7"
			44	64	10'-11"						27				36				27				108	156	10'-7"
			44	64	11'-0"						27				40				27				88	128	11'-7"
			44	64	11'-0"						27				44				27		#6	12"	108	156	13'-7"
			44	64	11'-0"						27				48				27				108	156	13'-7"
Section "C" & Bar Group "C"			98	70	10'-10"						31		#4	12"	29		#4	12"	31		#4	12"	88	128	7'-11"
			98	70	12'-10"						31				28				31				88	128	8'-11"
			98	70	12'-11"				#4	12"	31				32		#4	12"	31		#5	12"	88	128	9'-11"
			98	70	12'-11"						31				36				31				108	156	10'-11"
			98	70	13'-0"						31				40				31		#6	12"	88	128	11'-11"
			98	70	13'-0"						31				44				31				96	140	12'-11"
			98	70	13'-0"						31				48				31				120	172	13'-11"
Section "D" & Bar Group "D"			22	32	8'-9"						23		#4	12"	20		#4	12"	23		#4	12"	44	64	6'-6"
			22	32	8'-9"						23				24				23				44	64	7'-6"
			22	32	8'-10"				#4	12"	23				28		#4	12"	23		#5	12"	44	64	8'-6"
			22	32	8'-11"						23				32				23				60	89	9'-6"
			22	32	9'-0"						23				36				23		#6	12"	88	128	10'-6"
			22	32	9'-0"						23				40				23				56	80	11'-6"
Section "E" & Bar Group "E"			22	32	10'-10"						27		#4	12"	24		#4	12"	27		#4	12"	44	64	7'-10"
			22	32	10'-10"						27				28				27		#5	12"	44	64	8'-10"
			22	32	11'-0"				#4	12"	27				32		#4	12"	27				60	88	9'-10"
			22	32	11'-0"						27				36				27		#6	12"	44	64	10'-10"
			22	32	11'-0"						27				40				27				56	80	11'-10"
			22	32	11'-0"						27				44				27				88	128	12'-10"
			22	32	11'-0"						27				48				27		#7	12"	96	140	13'-10"
Section "F" & Bar Group "F"			30	30	12'-10"						31		#4	12"	24		#4	12"	31		#4	12"	44	69	8'-2"
			30	30	12'-10"						31				28				31				60	88	9'-2"
			30	30	12'-10"				#4	12"	31				32		#4	12"	31		#5	12"	44	69	10'-2"
			30	30	12'-11"						31				36				31		#6	12"	60	88	11'-2"
			30	30	13'-0"						31				40				31				56	80	12'-2"
			30	30	13'-0"						31				44				31		#7	12"	96	140	13'-2"
			30	30	13'-0"						31				48				31				52	76	13'-2"
Section "G" & Bar Group "G"			22	32	8'-9"						23		#4	12"	20		#4	12"	23		#4	12"	44	69	6'-8"
			22	32	8'-9"						23				24				23				44	69	7'-8"
			22	32	8'-10"				#4	12"	23				28		#4	12"	23		#5	11"	48	68	8'-8"
			22	32	8'-10"						23				32				23				60	88	9'-8"
			22	32	8'-11"						23				36				23		#6	10"	52	76	10'-8"
			22	32	8'-11"						23				40				23				52	76	11'-8"
Section "H" & Bar Group "H"			24	34	10'-10"						27		#4	12"	24		#4	12"	27		#4	12"	44	64	8'-0"
			24	34	10'-10"						27				28				27		#5	12"	44	64	9'-0"
			24	34	10'-10"				#4	12"	27				32		#4	12"	27		#6	12"	44	64	10'-0"
			24	34	10'-11"						27				36				27				52	76	11'-0"
			24	34	11'-0"						27				40				27		#7	10"	52	76	13'-0"
			24	34	11'-0"						27				44				27				60	88	14'-0"
			24	34	11'-0"						27				48				27				52	76	14'-0"
Section "I" & Bar Group "I"					8'-9"						23		#4	12"	20		#4	12"	23		#4	12"	44	64	6'-10"
					8'-9"						23				24				23				44	64	7'-10"
					8'-10"				#4	12"	23				28		#4	12"	23		#5	10"			8'-10"
					8'-11"						23				32				23						9'-10"
					9'-0"						23				36				23		#6	11"			10'-10"
					9'-0"						23				40				23						11'-10"
Section "J" & Bar Group "J"					10'-10"						27		#4	12"	24		#4	12"	27		#4	12"			8'-2"
					10'-10"						27				28				27		#5	11"			9'-2"
					10'-10"				#4	12"	27				32		#4	12"	27		#6	10"			10'-2"
					10'-11"						27				36				27						11'-2"
					11'-0"						27				40				27		#7	9"			12'-2"
					11'-0"						27				44				27						13'-2"
					11'-0"						27				48				27			8"			14'-2"
Section "K" & Bar Group "K"					12'-10"						35		#4	12"	24		#4	12"	35		#4	12"			8'-8"
					12'-10"						35				28				35		#5	11"			9'-8"
					12'-10"				#4	10½"	35				32		#4	12"	35		#6	10"			10'-8"
					12'-11"						35				36				35						11'-8"
					13'-0"						35				40				35		#7	9"			12'-8"
					13'-0"						35				44				35						13'-8"
					13'-0"						35				48				35			8"			14'-8"

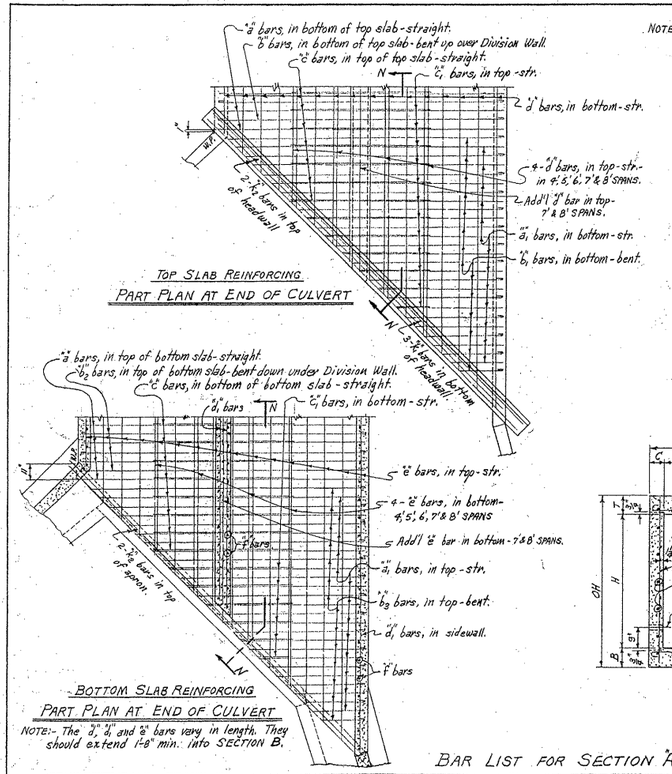
NOTE:- Bars for each Section to be marked with the Section letter. Thus for Section B, the bars should be marked Ba, Bb, Bbz, Bc, Bd, Bd₁, Be and Bf.

Designed by:- W.C. Haigh 6-26-62 Checked by:- R.H.S. 7-16-62
Drawn by:- W.C. Haigh 7-6-62 Checked by:- R.H.S. 7-20-62
Quantities by:- W.C. Haigh 7-5-62 Checked by:- R.H.S. 7-19-62

QUANTITIES

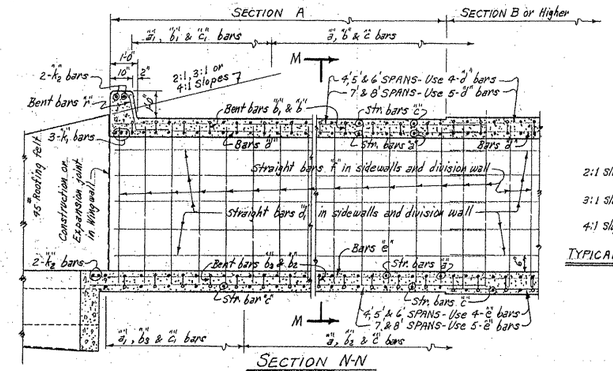
Section	D	S	H	A	OW	T	C	M	B	OH	Max. Design Depth of Cover	Class S Conc. Per Lin. Ft. Barrel Cu.Yd.	Reinforcing Steel Unit Quantities Per Lin. Ft. Barrel Lb.	Reinforcing Steel Additional Per Lap Lb.	Reinforcing Steel Additional Turn Headwalls & Aprons Lb.
Section "A" - 10'-0"	2 @ 8'	5'	80	17'-11"	9½"	7"	9"	9⅝"	11½"	6'-7"	10'-0"	1.404	181.08	55.11	250.28
		6'	96	17'-11"		7"	9"			7'-7"		1.477	184.82	58.45	250.28
		7'	112	18'-1"		7½"	10"			8'-7"		1.601	192.32	61.79	251.67
		8'	128	18'-2"		7½"	10"			9'-7"		1.707	216.14	65.13	252.37
		9'	144	18'-5"		9"	11"			10'-7"		1.886	229.54	68.47	254.46
		10'	160	18'-8"		10"	12"			11'-7"		2.082	250.08	71.81	256.54
	2 @ 10'	6'	120	22'-11"	10½"	7½"	10"	11½"	13½"	7'-10½"	10'-0"	1.979	246.98	65.13	315.55
		7'	140	22'-11"		7½"	10"			8'-10½"		2.057	265.91	68.47	315.55
		8'	160	22'-2"		8"	10"			9'-10½"		2.169	271.67	71.81	316.25
		9'	180	22'-5"		9"	11"			10'-10½"		2.345	288.86	75.15	318.34
		10'	200	22'-8"		10"	12"			11'-10½"		2.544	308.06	78.49	320.42
		11'	220	22'-10"		11"	12"			12'-10½"		2.722	326.26	81.83	322.81
		12'	240	23'-0"		12"	12"			13'-10½"		2.913	344.24	85.17	323.20
Section "B" - 15'-0"	2 @ 8'	5'	80	17'-11"	10½"	7"	9"	10½"	12"	6'-9"	15'-0"	1.516	191.78	55.11	
		6'	96	17'-11"		7"	9"			7'-9"		1.587	197.13	58.45	
		7'	112	18'-1"		7½"	10"			8'-9"		1.712	216.41	61.79	
		8'	128	18'-2"		8"	10"			9'-9"		1.819	236.89	65.13	
		9'	144	18'-5"		9"	11"			10'-9"		1.999	257.15	68.47	
		10'	160	18'-8"		10"	12"			11'-9"		2.198	275.52	71.81	
	2 @ 10'	6'	120	22'-1"	12"	7½"	10"	13"	15"	8'-1"	15'-0"	2.167	223.01	65.13	
		7'	140	22'-1"		7½"	10"			9'-1"		2.244	291.60	68.47	
		8'	160	22'-2"		8"	10"			10'-1"		2.352	312.69	71.81	
		9'	180	22'-5"		9"	11"			11'-1"		2.535	322.68	75.15	
		10'	200	22'-8"		10"	12"			12'-1"		2.737	352.57	78.49	
		11'	220	22'-10"		11"	12"			13'-1"		2.916	373.76	81.83	
		12'	240	23'-0"		12"	12"			14'-1"		3.108	399.33	85.17	
Section "C" - 20'-0"	2 @ 10'	6'	144	26'-2"	14½"	8"	10"	15"	18"	8'-3½"	20'-0"	2.849	369.91	71.81	
		7'	168	26'-2"		8"	10"			9'-3½"		2.924	383.92	75.15	
		8'	192	26'-2"		8"	10"			10'-3½"		3.004	419.52	78.49	
		9'	216	26'-5"		9"	11"			11'-3½"		3.190	431.74	81.83	
		10'	240	26'-8"		10"	12"			12'-3½"		3.395	461.14	85.17	
		11'	264	26'-10"		11"	12"			13'-3½"		3.577	486.07	88.51	
		12'	288	27'-0"		12"	12"			14'-3½"		3.771	510.58	91.85	
Section "D" - 25'-0"	2 @ 10'	5'	80	17'-11"	11½"	7"	9"	11½"	13½"	6'-11"	25'-0"	1.627	203.81	55.11	
		6'	96	17'-11"		7"	9"			7'-11"		1.710	206.85	58.45	
		7'	112	18'-1"		7½"	10"			8'-11"		1.838	217.97	61.79	
		8'	128	18'-2"		8½"	10"			9'-11"		1.997	228.58	65.13	
		9'	144	18'-5"		9½"	11"			10'-11"		2.180	276.52	68.47	
		10'	160	18'-8"		10½"	12"			11'-11"		2.331	318.47	71.81	
	2 @ 10'	6'	120	22'-2"	13½"	8"	10"	14½"	16"	8'-9½"	25'-0"	2.380	320.35	65.13	
		7'	140	22'-2"		8"	10"			9'-9½"		2.460	339.19	68.47	
		8'	160	22'-3"		8½"	10"			10'-9½"		2.572	365.09	71.81	
		9'	180	22'-6"		9½"	11"			11'-9½"		2.760	389.39	75.15	
		10'	200	22'-9"		10½"	12"			12'-9½"		2.948	413.08	78.49	
		11'	220	22'-10"		11"	12"			13'-9½"		3.110	446.06	81.83	
		12'	240	23'-0"		12"	12"			14'-9½"		3.303	475.09	85.17	
Section "E" - 30'-0"	2 @ 10'	6'	144	26'-2"	16"	8"	10"	16½"	18"	8'-8½"	30'-0"	3.106	426.82	75.15	
		7'	168	26'-2"		8"	10"			9'-8½"		3.186	449.87	78.49	
		8'	192	26'-3"		8½"	10"			10'-8½"		3.316	473.02	81.83	
		9'	216	26'-6"		9½"	11"			11'-8½"		3.992	498.31	85.17	
		10'	240	26'-8"		10½"	12"			12'-8½"		3.682	531.56	88.51	
		11'	264	26'-10"		11½"	12"			13'-8½"		3.867	554.63	91.85	
		12'	288	27'-0"		12½"	12"			14'-8½"		4.064	605.99	95.19	
Section "F" - 35'-0"	2 @ 10'	5'	80	17'-11"	12½"	7"	9"	12½"	14"	6'-10"	35'-0"	1.737	216.88	55.11	
		6'	96	18'-0"		7½"	9"			7'-10"		1.844	226.87	58.45	
		7'	112	18'-1"		8"	10"			8'-10"		1.992	250.52	61.79	
		8'	128	18'-2"		8½"	10"			9'-10"		2.122	278.89	65.13	
		9'	144	18'-7"		10"	11"			10'-10"		2.295	300.76	68.47	
		10'	160	18'-10"		11"	12"			11'-10"		2.503	325.17	71.81	
	2 @ 10'	6'	120	22'-2"	14"	8"	10"	15"	17"	8'-5½"	35'-0"	2.517	341.80	65.13	
		7'	140	22'-3"		8½"	10"			9'-5½"		2.626	365.09	68.47	
		8'	160	22'-4"		9½"	10"			10'-5½"		2.758	388.03	71.81	
		9'	180	22'-7"		10½"	11"			11'-5½"		2.952	412.78	75.15	
		10'	200	22'-10"		11½"	12"			12'-5½"		3.165	446.10	78.49	
		11'	220	23'-0"		12"	12"			13'-5½"		3.334	469.97	81.83	
		12'	240	23'-3"		12½

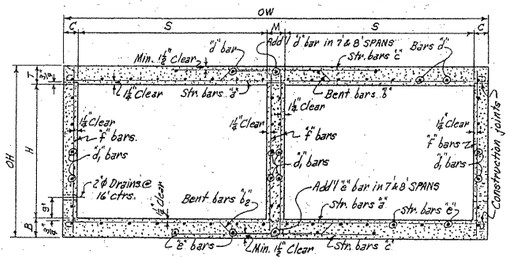
FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



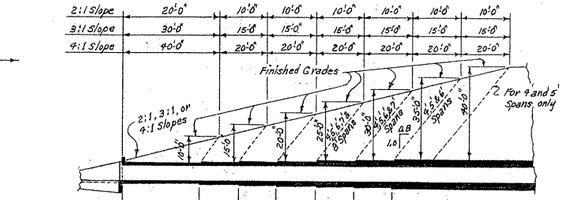
NOTE:- The "d1" "d1" and "b" bars vary in length. They should extend 1'-8" min. into SECTION B.

NOTE:- For Details of Standard Wings and bar lists, see Drawing No. W-X452-1 or W-X452-2; W-X453-1 or W-X453-2, and W-X454-1 or W-X454-2. Also W-X45.





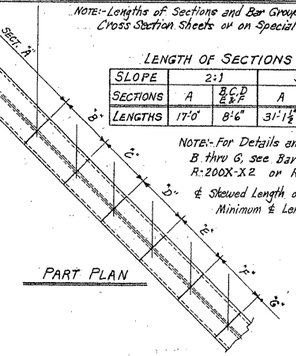
TYPICAL SECTION M-M



2:1 Slope	20'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"			
3:1 Slope	30'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"			
4:1 Slope	40'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"			
2:1 Slope = SECTIONS	A=12'-0"	B=6'-0"	C=6'-0"	D=6'-0"	E=6'-0"	F=6'-0"	MID-SECTION G-Varies	These lengths are perpendicular to ℄ of roadway. See Table of Skew Lengths below.		
Bar Group	A	B	C	D	E	F	G			
3:1 Slope = SECTIONS	A=22'-0"	B=11'-0"	C=11'-0"	D=11'-0"	E=11'-0"	F=11'-0"	MID-SECTION G-Varies			
Bar Group	A	B	C	D	E	F	G			
4:1 Slope = SECTIONS	A=32'-0"	B=16'-0"	C=16'-0"	D=16'-0"	E=16'-0"	F=16'-0"	MID-SECTION G-Varies			
Bar Group	A	B	C	D	E	F	G			

TYPICAL LONGITUDINAL SECTION - SHOWING SECTIONS AND BAR GROUPS FOR VARIOUS DEPTHS OF COVER

NOTE:- Lengths of Sections and Bar Groups are to be shown on Cross Section Sheets or on Special Culvert Layout Sheet.



LENGTH OF SECTIONS ON 45° SKEW

SLOPE	2:1		3:1		4:1	
SECTIONS	A	B,C,D E&F	A	B,C,D E&F	A	B,C,D E&F
LENGTHS	17'-0"	8'-6"	31'-1½"	15'-6¾"	45'-3"	22'-7½"

NOTE:- For Details and Bar Lists for SECTION B thru G, see Barrel Drawing Nos. R-200X-X1, R-200X-X2 or R-200X-X3.

℄ Skewed Length of A = 1.41421 A.
Minimum ℄ Length on skew = (0.5 OW + 1').

DESIGN LIVE LOAD
H20-S16 LOADING A.A.S.H.O. 1961
AND
SPECIAL MILITARY LOADING
Two 24,000 Lb. Axles @ 4'-0" ctrs

UNIT STRESSES:-
Class S Concrete (n=10) 1200 #/□"
Reinforcing Steel 20,000 #/□"

MAX. DESIGN DEPTH OF COVER		BARREL DIMENSIONS											* QUANTITIES - ONE SECTION "A"					
	CLEAR SPANS	CLEAR HEIGHT	SQ. FT. OPENING	OVERALL WIDTH	THICKNESS OF BP SLAB	THICKNESS OF SIDEWALLS	THICKNESS OF DIVISION WALL	THICKNESS OF BOTTOM SLAB	OVERALL HEIGHT	ROADWAY LENGTH	LENGTH OF HEADWALL	CLASS S CONCRETE BARREL ONLY			REINFORCING STEEL BARREL, APRON AND HEADWALL		
												2:1	3:1	4:1	2:1	3:1	4:1
D	S	H	A	OW	T	C	M	B	OH	RL	K	CU.YD.	CU.YD.	CU.YD.	LB.	LB.	LB.
SECTION "A" = 10'-0"	4'ø	2'	16	9'-8"	6"	6"	8"	6"	3'-0"	13'-8"	15'-8"	8.18	14.97	21.77	1288	2203	3197
		3'	24	9'-8"		6"	8"		4'-0"	"	"	9.23	16.90	26.57	1384	2374	3337
		4'	32	9'-8"		6"	8"		5'-0"	"	"	10.28	18.83	27.38	1479	2545	3697
		5'	40	9'-8"		6"	8"		6'-0"	"	"	11.34	20.76	30.18	1575	2716	3897
		6'	48	9'-11"		7"	9"		7'-0"	14'-0½"	16'-0½"	13.98	24.68	35.88	1689	2916	4187
	5'ø	3'	30	11'-8"	6½"	6"	8"	6½"	4'-1"	16'-6"	18'-6"	11.10	20.33	29.55	1935	3292	4712
		4'	40	11'-8"		6"	8"		5'-1"	"	"	12.16	22.25	32.35	2030	3463	4962
		5'	50	11'-8"		6"	8"		6'-1"	"	"	13.21	24.18	35.16	2126	3634	5212
		6'	60	11'-11"		7"	9"		7'-1"	16'-10½"	18'-10½"	15.37	28.14	40.91	2229	3855	5528
		7'	70	12'-1"		7½"	10"		8'-1"	17'-1"	19'-1"	17.92	31.30	46.38	2547	4408	6339
	6'ø	3'	36	13'-8"	7¼"	6"	8"	7¾"	4'-3"	19'-3¾"	21'-4"	13.91	25.46	37.01	2216	3777	5378
		4'	48	13'-8"		6"	8"		5'-3"	"	"	14.96	27.39	39.82	2312	3948	5628
		5'	60	13'-8"		6"	8"		6'-3"	"	"	16.00	29.29	42.58	2407	4119	5878
		6'	72	13'-11"		7"	9"		7'-3"	19'-10½"	21'-8½"	18.19	33.30	48.42	2494	4337	6192
		7'	84	14'-1"		7½"	10"		8'-3"	19'-11"	21'-11"	20.26	37.10	53.94	2821	4999	7033
		8'	96	14'-2"		8"	10"		9'-3"	20'-0⅝"	22'-0⅝"	22.07	40.40	58.73	3017	5232	7536
	7'ø	4'	56	15'-8"	8¼"	6"	8"	8¾"	5'-5"	22'-1½"	24'-1½"	18.17	33.27	48.37	2952	5013	7123
		5'	70	15'-8"		6"	8"		6'-5"	"	"	19.23	35.20	51.18	3098	5184	7373
		6'	84	15'-11"		7"	9"		7'-5"	22'-6⅝"	24'-6"	21.44	39.25	57.06	3125	5909	7496
		7'	98	16'-1"		7½"	10"		8'-5"	22'-9"	24'-9"	23.59	43.08	62.63	3467	5957	8555
		8'	112	16'-2"		8"	10"		9'-5"	22'-10⅝"	24'-10⅝"	25.33	46.38	67.42	3666	6296	9066
		9'	126	16'-5"		9"	11"		10'-5"	23'-2⅝"	25'-2⅝"	28.84	51.88	75.43	3914	6798	9632
	8'ø	4'	64	17'-8"	9¼"	6"	8"	9¾"	5'-7"	24'-9⅝"	26'-11⅝"	21.81	38.93	58.06	3415	5871	8461
		5'	80	17'-11"		7"	9"		6'-7"	25'-4"	27'-4"	23.90	43.76	63.62	3585	6237	8845
		6'	96	17'-11"		7"	9"		7'-7"	"	"	25.11	45.97	66.83	3680	6408	9095
		7'	112	18'-1"		7½"	10"		8'-7"	25'-6⅝"	27'-7"	27.22	49.85	72.44	3882	6667	9505
		8'	128	18'-2"		8"	10"		9'-7"	25'-8⅝"	27'-8⅝"	29.02	53.13	77.24	4154	7149	10,215
		9'	144	18'-5"		9"	11"		10'-7"	26'-0⅝"	28'-0⅝"	32.06	58.70	85.34	4401	7557	10,819
		10'	160	18'-8"		10"	12"		11'-7"	26'-4⅝"	28'-9⅝"	35.39	64.80	94.21	4847	8368	11,973

* For remainder of quantities see Std. Wing and Barrel Drawings listed below.

SECTIONS AND BAR GROUPS TO BE USED FOR VARIOUS DEPTHS OF COVER

DEPTHS OF COVER	SECTIONS & BAR GROUPS FOR END SECTIONS A	B	C	D	E	F	MID-SECTION AND BAR GROUP
5.0' to 9.5'	A						A
10.0' to 14.5'	A						B
15.0' to 19.5'	A	B					C
20.0' to 24.5'	A	B	C				D
25.0' to 29.5'	A	B	C	D			E
30.0' to 39.5'	A	B	C	D	E		F
35.0' to 40.0'	A	B	C	D	E	F	G

OR ALT.

DEPTHS OF COVER	SECTIONS & BAR GROUPS FOR END SECTIONS A	B	C	D	E	F	MID-SECTION AND BAR GROUP
5.0' to 9.5'	A						A
10.0' to 14.5'	A						B
15.0' to 19.5'	A	B					C
20.0' to 24.5'	A		2@C				D
25.0' to 29.5'	A	B		2@D			E
30.0' to 39.5'	A		2@C		2@E		F
35.0' to 40.0'	A	B		2@D		2@F	G

BAR LIST FOR SECTION "A" ON 45° SKEW - ONE END ONLY.

SECTION & BAR GROUP	DEPTH OF COVER	CLEAR SPAN	CLEAR HEIGHT	"a" bars STRAIGHT In Top and Bottom Slab of Barrel. SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	"a1" bars STRAIGHT In Top and Bottom Slab of Barrel (Two of each Length) SIZE	SPACING	NO. REQ'D	LENGTH MAX.	MIN.
SECTION "A" & BAR GROUP "A"	LENGTH OF SECTION 4:1 = 45'-3"													
	3:1 = 31'-1½"													
	2:1 = 17'-0"	D	S	H										
	0'-0" TO 10'-0" MAXIMUM.	4'ø	2'	#4	13"	25	51	77	9'-5"	#4	13"	12	8'-4"	2'-11"
			3'			25	51	77	"			12	"	"
			4'			25	51	77	"			12	"	"
			5'			25	51	77	"			12	"	"
			6'			25	51	77	9'-8"			12	8'-7"	3'-2"
		5'ø	3'	#4	11"	27	57	87	11'-5"	#4	11"	18	10'-6"	3'-2"
			4'			27	57	87	"			18	"	"
			5'			27	57	87	"			18	"	"
			6'			25	57	87	11'-8"			20	10'-9"	2'-6"
			7'			25	57	87	11'-10"			20	10'-11"	2'-8"
		6'ø	3'	#4	12"	23	51	79	13'-5"	#4	12"	22	12'-5"	2'-5"
			4'			23	51	79	"			22	"	"
			5'			23	51	79	"			22	"	"
			6'			21	51	79	13'-8"			22	12'-8"	2'-8"
			7'			21	49	79	13'-10"			22	12'-10"	2'-10"
			8'			21	49	79	13'-11"			22	12'-11"	2'-11"
		7'ø	4'	#4	12"	21	49	77	15'-5"	#4	12"	24	14'-5"	2'-5"
			5'			21	49	77	"			24	"	"
			6'			19	49	77	15'-8"			24	14'-8"	2'-8"
			7'			19	47	77	15'-10"			24	14'-10"	2'-10"
			8'			19	47	77	15'-11"			24	14'-11"	2'-11"
			9'			19	47	75	16'-2"			24	15'-2"	3'-2"
		8'ø	4'	#4	13"	17	43	69	17'-5"	#4	13"	26	16'-5"	3'-5"
			5'			17	43	69	17'-10"			26	16'-7"	2'-10"
			6'			17	43	69	"			26	"	"
			7'			17	43	69	17'-10"			28	16'-9"	2'-8"
			8'			17	43	69	17'-11"			28	16'-10"	2'-9"
			9'			17	43	69	18'-2"			28	17'-1"	3'-0"
			10'			17	43	69	18'-5"			28	17'-4"	3'-3"

SECTION & BAR GROUP	"b" bars BENT - See Diagrams below. In Bottom of Top Slab bent up over Division Wall - hooked. Alternate with "a1" and "c" bars. SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	X	Y	Z	"b1" bars BENT - See Diagrams below. In Bottom of Top Slab - some bent up over Division Wall - live end hooked. Alternate with "a1" and "c1" bars. SIZE	SPACING	NO. REQ'D	LENGTH MAX.	MIN.	L MAX.	MIN.
SECTION "A" & BAR GROUP "A"																
3:1 = 31'-1½"																
2:1 = 17'-0"																
0'-0" TO 10'-0" MAXIMUM.																
4'ø	#4	13"	11	24	37	10'-5"	0'-2⅝"	2'-1"	3'-5"	#4	13"	7	9'-5"	2'-9"	8'-10"	2'-8"
			11	24	37	"	"	"	"			7	"	"	"	"
			11	24	37	"	"	"	"			7	"	"	"	"
			11	24	37	"	"	"	"			7	"	"	"	"
			11	24	37	10'-8"	0'-2⅝"	2'-2"	3'-6"			7	9'-8"	3'-0"	9'-1"	2'-7"
5'ø	#5	11"	12	27	43	12'-6"	0'-3"	2'-6½"	4'-2"	#5	11"	10	11'-7"	3'-2"	10'-11"	2'-8"
			12	27	43	"	"	"	"			10	"	"	"	"
			12	27	43	"	"	"	"			10	"	"	"	"
			12	27	43	12'-9"	"	2'-7½"	4'-3"			10	11'-10"	3'-5"	11'-2"	2'-11"
			12	27	43	12'-11"	0'-3"	2'-8½"	4'-3½"			10	12'-0"	3'-7"	11'-4"	3'-1"
6'ø	#5	12"	10	28	38	14'-7"	0'-3⅝"	2'-1"	4'-11"	#5	12"	11	13'-7"	3'-4"	12'-10"	2'-10"
			10	28	38	"	"	"	"			11	"	"	"	"
			10	28	38	"	"	"	"			11	"	"	"	"
			10	28	38	14'-10"	"	3'-0"	5'-0"			11	13'-10"	3'-7"	13'-1"	3'-1"
			10	28	38	15'-0"	"	3'-1"	5'-0⅝"			11	14'-0"	3'-9"	13'-3"	3'-3"
			10	28	38	15'-1"	0'-3⅝"	3'-1"	5'-1"			11	14'-1"	3'-10"	13'-4"	3'-4"
7'ø	#6	12"	9	23	37	16'-10"	0'-4⅝"	3'-4⅝"	5'-7"	#6	12"	13	15'-9"	3'-5"	14'-10"	2'-10"
			9	23	37	"	"	"	"			13	"	"	"	"
			9	23	37	17'-1"	"	3'-5⅝"	5'-8"			13	16'-0"	3'-8"	15'-1"	3'-1"
			9	23	37	17'-3"	"	3'-6⅝"	5'-8⅝"			13	16'-2"	3'-10"	15'-3"	3'-3"
			9	23	37	17'-4"	"	"	5'-9"			13	16'-3"	3'-11"	15'-4"	3'-4"
			9	23	37	17'-7"	0'-4⅝"	3'-6⅝"	5'-10"			14	16'-6"	3'-2"	15'-7"	2'-7"
8'ø	#6	12"	7	20	34	18'-10"	0'-5⅝"	3'-7"	6'-5"	#6	12"	16	17'-9"	3'-4"	16'-10"	2'-9"
			7	20	33	19'-1"	"	3'-8"	6'-6"			16	18'-0"	3'-7"	17'-1"	3'-0"
			7	20	33	"	"	"	"			16	"	"	"	"
			7	20	33	19'-3"	"	3'-9"	6'-6½"			8	21	34	19'-4"	"
			7	20	33	19'-5"	"	3'-10"	6'-7"			8	21	34	19'-5"	"
			7	20	33	19'-6"	0'-5⅝"	3'-11"	6'-9"			8	21	34	19'-6"	0'-6⅝"

SECTION & BAR GROUP	"b2" bars BENT - See Diagrams below. In Top of Bottom Slab down under Division Wall - hooked. Alternate with "a" and "c" bars. SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	X	Y	Z	"b3" bars. In Top of Bottom Slab - some bent down under Division Wall - one end hooked. Alternate with "a1" and "c1" or "c2" bars. SIZE	SPACING	NO. REQ'D	LENGTH MAX.	MIN.	L MAX.	MIN.
SECTION "A" & BAR GROUP "A"																
3:1 = 31'-1½"																
2:1 = 17'-0"																
0'-0" TO 10'-0" MAXIMUM.																
4'ø	#4	13"	12	25	38	10'-5"	0'-2⅝"	2'-1"	3'-5"	#4	13"	7	9'-5"	2'-9"	8'-10"	2'-8"
			12	25	38	"	"	"	"			7	"	"	"	"
			12	25	38	"	"	"	"			7	"	"	"	"
			12	25	38	"	"	"	"			7	"	"	"	"
			12	25	38	10'-8"	0'-2⅝"	2'-2"	3'-6"			7	9'-8"	3'-0"	9'-1"	2'-7"
5'ø	#5	11"	13	26	44	12'-6"	0'-3"	2'-6½"	4'-2"	#5	11"	10	11'-7"	3'-2"	10'-11"	2'-8"
			13	26	44	"	"	"	"			10	"	"	"	"
			13	26	44	"	"	"	"			10	"	"	"	"
			13	26	44	12'-9"	"	2'-7½"	4'-3"			10	11'-10"	3'-5"	11'-2"	2'-11"
			13	26	44	12'-11"	0'-3"	2'-8½"	4'-3½"			10	12'-0"	3'-7"	11'-4"	3'-1"
6'ø	#5	12"	11	25	39	14'-7"	0'-4⅝"	2'-10"	4'-11"	#5	12"	11	13'-7"	3'-4"	12'-10"	2'-10"
			11	25	39	"	"	"	"			11	"	"	"	"
			11	25	39	"	"	"	"			11	"	"	"	"
			11	25	39	14'-10"	"	3'-0"	5'-0"			11	13'-10"	3'-7"	13'-1"	3'-1"
			11	25	39	15'-0"	"	3'-0"	5'-0⅝"			11	14'-0"	3'-9"	13'-3"	3'-3"
			11	25	39	15'-1"	0'-4⅝"	3'-0"	5'-1"			11	14'-1"	3'-10"	13'-4"	3'-4"
7'ø	#6	12"	10	24	38	16'-10"	0'-5⅝"	3'-3⅝"	5'-7"	#6	12"	13	15'-9"	3'-5"	14'-10"	2'-10"
			10	24	38	"	"	"	"			13	"	"	"	"
			10	24	38	17'-1"	"	3'-4⅝"	5'-8"			13	16'-0"	3'-8"	15'-1"	3'-1"
			10	24	38	17'-3"	"	3'-5⅝"	5'-8⅝"			13	16'-2"	3'-10"	15'-3"	3'-3"
			10	24	38	17'-4"	"	"	5'-9"			13	16'-3"	3'-11"	15'-4"	3'-4"
			10	24	38	17'-7"	0'-5⅝"	3'-6⅝"	5'-10"			14	16'-6"	3'-2"	15'-7"	2'-7"
8'ø	#6	12"	8	21	35	18'-11"	0'-6⅝"	3'-6"	6'-5"	#6	12"	16	17'-9"	3'-4"	16'-10"	2'-9"
			8	21	34	19'-2"	"	3'-7"	6'-6"			16	18'-0"	3'-7"	17'-1"	3'-0"
			8	21	34	"	"	"	"			16	"	"	"	"
			8	21	34	19'-4"	"	3'-8"	6'-6½"			8	21	34	19'-4"	"
			8	21	34	19'-5"	"	"	6'-7"			8	21	34	19'-5"	"
			8	21	34	19'-6"	"	3'-9"	6'-8"			8	21	34	19'-6"	0'-6⅝"

SECTION & BAR GROUP	"c" bars STRAIGHT In Top and Bottom Slab of Barrel. Alternate with "b" and "b2" bars. SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	"c1" bars STRAIGHT In Top and Bottom Slab of Barrel. All with "b" & "b3" bars. (Two of each Length) SIZE	SPACING	NO. REQ'D	LENGTH MAX.	MIN.	"d" bars STRAIGHT Longitudinal in Top Slab of Barrel. SIZE	SPACING	NO. REQ'D	LENGTH
SECTION "A" & BAR GROUP "A"															
3:1 = 31'-1½"															
2:1 = 17'-0"															
0'-0" TO 10'-0" MAXIMUM.															
4'ø	#4	13"	29	55	81	4'-8"	#4	13"	4	3'-10"	2'-9"	#4	12"	14	
			29	55	81	"			4	"	"			14	
			29	55	81	"			4	"	"			14	
			29	55	81	"			4	"	"			14	
			29	55	81	4'-9"			4	4'-0"	2'-11"			14	
5'ø	#5	11"	33	63	93	5'-8"	#5	11"	6	4'-11"	3'-1"	#4	12"	16	@ 4:1 = 46'-10",
			33	63	93	"			6	"	"			16	
			33	63	93	"			6	"	"			16	
			31	63	93	5'-9"			6	5'-1"	2'-8"			16	
			33	63	93	5'-10"			6	5'-2"	2'-5"			16	
6'ø	#5	12"	29	57	85	6'-8"	#6	12"	8	6'-1"	3'-1"	#4	12"	18	3:1 = 34'-1",
			29	57	85	"			8	"	"			18	
			29	57	85	"			8	"	"			18	
			27	57	85	6'-9"			8	6'-3"	3'-3"			18	
			27	57	85	6'-10"			10	6'-4"	2'-8"			18	
			27	57	85	6'-10"			10	6'-5"	2'-5"			18	
7'ø	#6	12"	29	57	85	7'-8"	#6	12"	8	6'-7"	2'-7"	#4	12"	21	
			29	57	85	"			8	"	"			21	
			27	57	85	7'-9"			8	6'-9"	2'-9"			21	
			27	55	85	7'-10"			8	6'-10"	2'-10"			21	
			27	55	85	7'-10"			8	6'-11"	2'-11"			21	
			27	55	83	7'-11"			8	7'-1"	3'-1"			21	
8'ø	#4	12"	25	51	77	8'-8"	#4	12"	10	7'-8"	3'-4"	#4	12"	23	
			25	51	77	8'-9"			10	7'-10"	2'-5"			23	
			25	51	77	"			10	"	"			23	
			25	51	77	8'-10"			10	7'-11"	2'-6"			23	
			25	51	77	8'-11"			10	8'-0"	2'-7"			23	
			25	51	77	9'-0"			10	8'-1"	2'-8"			23	

SECTION & BAR GROUP	"a1" bars STRAIGHT Longitudinal in Sidewalls and Division Wall. SIZE	SPACING	NO. REQ'D	LENGTH	"d1" bars STRAIGHT Longitudinal in Bottom Slab of Barrel. SIZE	SPACING	NO. REQ'D	LENGTH	"f" bars STRAIGHT Verticals in Sidewalls and Division Wall. SIZE	SPACING	NUMBER REQ'D 2:1	3:1	4:1	LENGTH	"k1" bars STRAIGHT In Bottom of Headwall. SIZE	NO. REQ'D	LENGTH	"k2" bars STRAIGHT In Top of Headwall and Apron. (2 Each) SIZE	NO. REQ'D	LENGTH
SECTION "A" & BAR GROUP "A"																				
3:1 = 31'-1½"																				
2:1 = 17'-0"																				
0'-0" TO 10'-0" MAXIMUM.																				
4'ø	#4	12"	14		#4	12"	14		#4	12"	69	125	182	2'-9"	#5	3	13'-3"	#5	4	15'-5"
			14				14				69	125	182	3'-9"		3	"		4	"
			14				14				69	125	182	4'-9"		3	"		4	"
			14				14				69	125	182	5'-9"		3	13'-7"		4	15'-9"
5'ø	#4	12"	16		#4	12"	16		#4	12"	69	125	182	3'-10"	#5	3	16'-7"	#5	4	18'-9"
			16				16				69	125	182	4'-10"		3	"		4	"
			16				16				69	125	182	5'-10"		3	16'-5"		4	18'-7"
			16				16				69	125	182	6'-10"		3	16'-8"		4	18'-10"
6'ø	#4	12"	18		#4	12"	18		#5	12"	69	125	182	4'-0"	#5	3	18'-11"	#5	4	21'-1"
			18				18				69	125	182	5'-0"		3	"		4	"
			18				18				69	125	182	6'-0"		3	"		4	"
			18				18				69	125	182	7'-0"	#6	3	19'-3"	#6	4	21'-5"
			18				18		#5	12"	69	125	182	8'-0"		3	19'-6"		4	21'-8"
			18				18			11"	76	136	200	9'-0"		3	19'-7"		4	21'-9"
7'ø