DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	1	168
		I-530 - HWY. 79B (FRANKLIN ST. & 6TH AVE.) (PINE BLUFF) (S)				

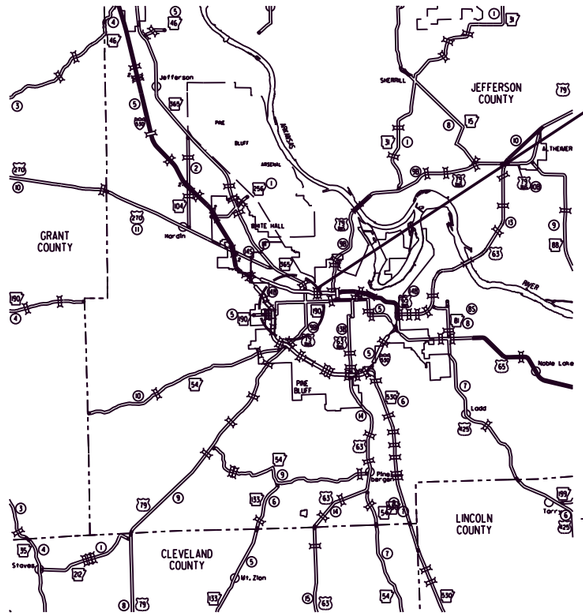
ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

I-530 - HWY. 79B (FRANKLIN ST. & 6TH AVE.) (PINE BLUFF) (S)

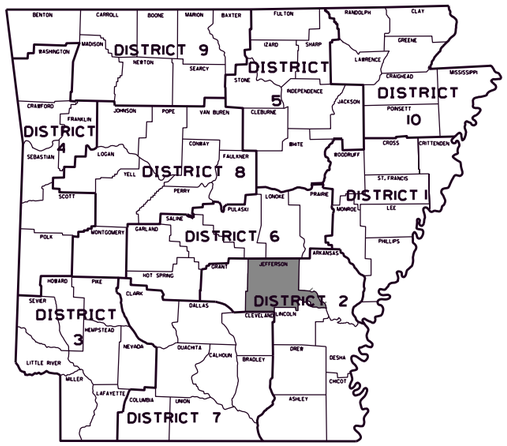
JEFFERSON COUNTY
ROUTE 190 SECTION 5

JOB 020628

FED. AID PROJ. STPC-STPLC-9345(42)



VICINITY MAP

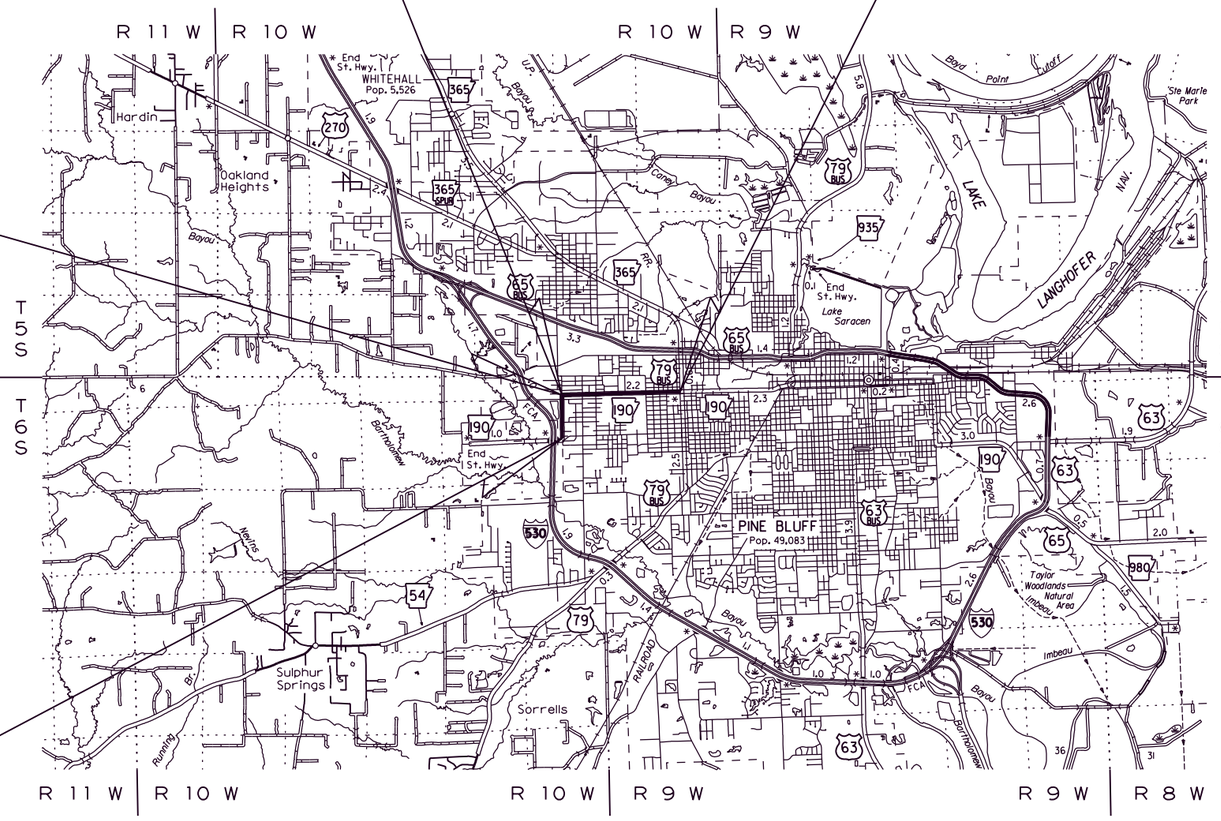


ARK. HWY. DIST. NO. 2

STA. 200+11.00
BEGIN HWY. 190 EAST
LOG MILE 1.68

STA. 276+22.00
END HWY. 190 EAST
& JOB 020628

NOT TO SCALE



STA. 129+93.51
END HWY. 190 NORTH

STA. 100+00.00
BEGIN JOB 020628
& HWY. 190 NORTH
LOG MILE 1.13

DESIGN TRAFFIC DATA

DESIGN YEAR	2045
2025 ADT	1,400
2045 ADT	1,600
2045 DHV	176
DIRECTIONAL DISTRIBUTION	0.60
TRUCKS	3%
DESIGN SPEED	35 MPH

APPROVED

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 12547
JESSIE XU JONES

CHIEF ENGINEER - PRECONSTRUCTION

	BEGIN PROJECT	MID-POINT OF PROJECT	END PROJECT
LATITUDE	N 34°12'57"	N 34°13'26"	N 34°13'26"
LONGITUDE	W 92°04'10"	W 92°03'41"	W 92°02'37"

LENGTH OF PROJECT CALCULATED ALONG C.L.

GROSS LENGTH OF PROJECT	10604.51	FEET	OR	2.008	MILES
NET	ROADWAY	10604.51	FEET		2.008	MILES
NET	BRIDGES	0.00	FEET		0.000	MILES
NET	PROJECT	10604.51	FEET		2.008	MILES

RB43088 6/18/2025
R020628.DGN

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	2	168
		INDEX OF SHEETS AND STANDARD DRAWINGS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

INDEX OF SHEETS

SHEET NO.		TITLE
1		TITLE SHEET
2		INDEX OF SHEETS AND STANDARD DRAWINGS
3		GOVERNING SPECIFICATIONS AND GENERAL NOTES
4		TYPICAL SECTIONS OF IMPROVEMENT
5		SPECIAL DETAILS
6	- 20	TEMPORARY EROSION CONTROL DETAILS
21	- 33	MAINTENANCE OF TRAFFIC DETAILS
34	- 38	PERMANENT PAVEMENT MARKING DETAILS
39	- 49	QUANTITIES
50		SUMMARY OF QUANTITIES AND REVISIONS
51	- 56	SURVEY CONTROL DETAILS
57	- 71	PLAN AND PROFILE SHEETS
72	- 168	CROSS SECTIONS

NOTE: CROSS SECTIONS NOT NORMALLY INCLUDED IN PLANS SOLD TO PROSPECTIVE BIDDERS, BUT MAY BE HAD UPON REQUEST.

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
CDP-1	CONCRETE DITCH PAVING	12-08-16
CG-1	CURBING DETAILS	11-29-07
DR-1	DETAILS OF DRIVEWAYS & ISLANDS	05-22-25
DR-2	DETAILS OF DRIVEWAYS & STREET TURNOUTS	05-19-22
FES-1	FLARED END SECTION	10-18-96
FES-2	FLARED END SECTION	10-18-96
FPC-9E	DETAILS OF DROP INLETS (TYPE C)	08-22-02
FPC-9M	DETAILS OF DROP INLET (TYPE MO)	08-22-02
MB-1	MAILBOX DETAILS	11-18-04
PCC-1	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PCM-1	METAL PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PCP-1	PLASTIC PIPE CULVERT (HIGH DENSITY POLYETHYLENE)	02-27-14
PCP-2	PLASTIC PIPE CULVERT (PVC F949)	02-27-14
PCP-3	PLASTIC PIPE CULVERT (POLYPROPYLENE)	02-27-20
PM-1	PAVEMENT MARKING DETAILS	02-27-20
PU-1	DETAILS OF PIPE UNDERDRAIN	12-08-16
SE-3	TABLES AND METHOD OF SUPERELEVATION FOR TWO-WAY TRAFFIC (4% MAXIMUM)	11-07-19
SI-1	DETAILS OF SPECIAL ITEMS	10-25-18
SI-3	CONCRETE WALK (TYPE SPECIAL)	11-05-20
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	05-20-21
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	05-22-25
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-2	TEMPORARY EROSION CONTROL DEVICES	06-02-94
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
WF-2	WIRE FENCE WATER GAPS	04-20-79
WF-3	CHAIN LINK FENCE	11-17-10
WF-4	WIRE FENCE TYPE C AND D	08-22-02
WR-1	WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS	11-10-05

RB43088 6/5/2025
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
07/22/2025		6	ARK.	020628	3	168
		GOVERNING SPECIFICATIONS AND GENERAL NOTES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
07/22/2025

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

NUMBER **TITLE**

ERRATA_____ ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273__ REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273__ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273__ SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273__ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273__ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273__ SUPPLEMENT - TRAINING PROGRAM - JOB 020628
FHWA-1273__ SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273__ SUPPLEMENT - WAGE RATE DETERMINATION
100-3_____ CONTRACTOR'S LICENSE
100-4_____ DEPARTMENT NAME CHANGE
102-2_____ ISSUANCE OF PROPOSALS
102-3_____ PREQUALIFICATION OF BIDDERS
103-2_____ CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS
105-4_____ MAINTENANCE DURING CONSTRUCTION
107-2_____ RESTRAINING CONDITIONS
108-1_____ LIQUIDATED DAMAGES
108-2_____ WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1_____ PROTECTION OF WATER QUALITY AND WETLANDS
210-1_____ UNCLASSIFIED EXCAVATION
303-1_____ AGGREGATE BASE COURSE
306-1_____ QUALITY CONTROL AND ACCEPTANCE
400-1_____ TACK COATS
400-4_____ DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5_____ PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6_____ LIQUID ANTI-STRIP ADDITIVE
400-7_____ TRACKLESS TACK
404-3_____ DESIGN OF ASPHALT MIXTURES
409-2_____ ASPHALT LABORATORY FACILITY
410-1_____ CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2_____ DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
410-4_____ EVALUATION OF ACHM SUBLOT REPLACEMENT MATERIAL
416-1_____ RECYCLED ASPHALT PAVEMENT
501-3_____ PORTLAND CEMENT CONCRETE PAVEMENT
502-1_____ WELDED WIRE REINFORCEMENT
505-1_____ PORTLAND CEMENT CONCRETE DRIVEWAY
600-2_____ INCIDENTAL CONSTRUCTION
603-1_____ LANE CLOSURE NOTIFICATION
604-1_____ RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3_____ TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
605-1_____ CONCRETE DITCH PAVING
606-1_____ PIPE CULVERTS FOR SIDE DRAINS
619-1_____ FENCES
620-1_____ MULCH COVER
621-1_____ FILTER SOCKS
633-1_____ CONCRETE WALKS, CONCRETE STEPS, AND HAND RAILING
634-1_____ CURBING
637-1_____ MAILBOXES
802-5_____ CONCRETE FOR STRUCTURES
JOB 020628__ ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS)
JOB 020628__ BIDDING REQUIREMENTS AND CONDITIONS
JOB 020628__ BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB 020628__ BUY AMERICA – CONSTRUCTION MATERIALS
JOB 020628__ CARGO PREFERENCE ACT REQUIREMENTS
JOB 020628__ COLD MILLING – COUNTY PROPERTY
JOB 020628__ CONSTRUCTION IN SPECIAL FLOOD HAZARD AREAS
JOB 020628__ DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
JOB 020628__ DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 020628__ FLEXIBLE BEGINNING OF WORK – CALENDAR DAY CONTRACT
JOB 020628__ GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 020628__ LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 020628__ MANDATORY ELECTRONIC CONTRACT
JOB 020628__ MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 020628__ PARTNERING REQUIREMENTS
JOB 020628__ PLASTIC PIPE
JOB 020628__ PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 020628__ PRICE ADJUSTMENT FOR FUEL
JOB 020628__ PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 020628__ SHORING FOR CULVERTS
JOB 020628__ SOIL STABILIZATION
JOB 020628__ STORM WATER POLLUTION PREVENTION PLAN
JOB 020628__ SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 020628__ TEXTURED COATING FINISH (CAST-IN PLACE RETAINING WALLS)
JOB 020628__ UTILITY ADJUSTMENTS
JOB 020628__ VALUE ENGINEERING
JOB 020628__ WARM MIX ASPHALT
JOB 020628__ WELLHEAD PROTECTION

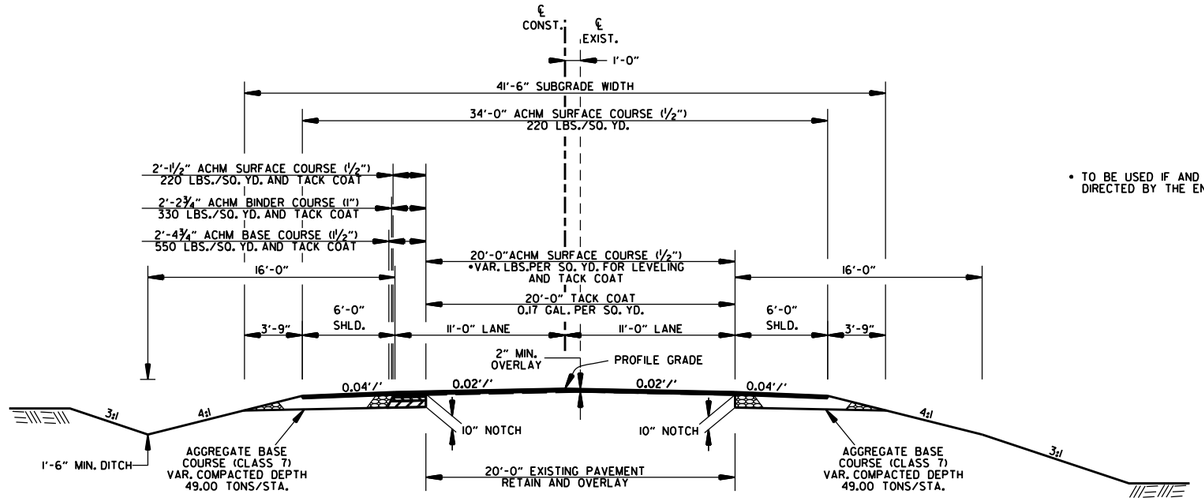
GENERAL NOTES

1. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
2. ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
3. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U.S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
5. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
6. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FENCE TO CONTROL LIVESTOCK IN AREAS WHERE PASTURES ARE SEVERED. WIRE FENCE MAY BE CONSTRUCTED INITIALLY, OR IN LIEU THEREOF, THE CONTRACTOR AT HIS OWN EXPENSE, MAY ELECT TO PROVIDE TEMPORARY FENCING SUITABLE TO CONTAIN LIVESTOCK.
8. THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.
9. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
10. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
11. THIS PROJECT IS COVERED UNDER A SECTION 404 NATIONWIDE 14 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2014, FOR PERMIT REQUIREMENTS.

RB43088 7/21/2025
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	4	168
		TYPICAL SECTIONS OF IMPROVEMENT				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

HWY. 190 NORTH
STA. 100+00.00 - STA. 129+93.51

NOTES:
THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.

REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

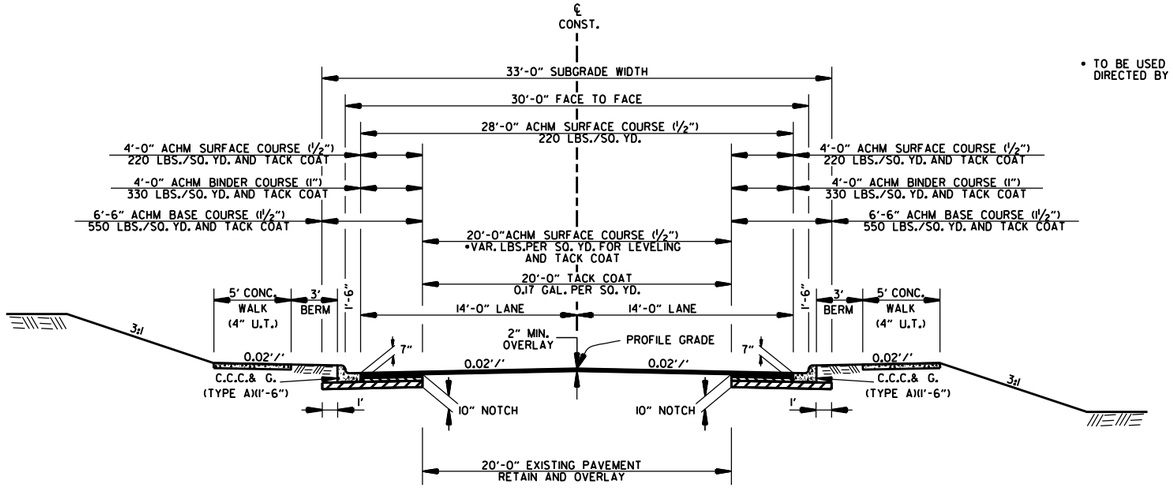
ASPHALT FOR LEVELING OF EXISTING PAVEMENT SHALL BE PLACED ONLY IF AND WHERE DIRECTED BY THE ENGINEER. CALCULATIONS FOR THE AMOUNT OF LEVELING AND LEVELING OPERATIONS SHALL BE PERFORMED BEFORE CONSTRUCTING NOTCH AND WIDENING. CALCULATIONS WILL NOT BE PAID FOR DIRECTLY, BUT PAYMENT WILL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS.

THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT LANE LINES.

REFER TO PLAN SHEETS FOR SIDEWALK LOCATIONS.

PRIOR TO AND DURING PLACEMENT OF PAVEMENT IN FRONT OF THE CURB AND GUTTER, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE WALKS AT 45' INTERVALS.



• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

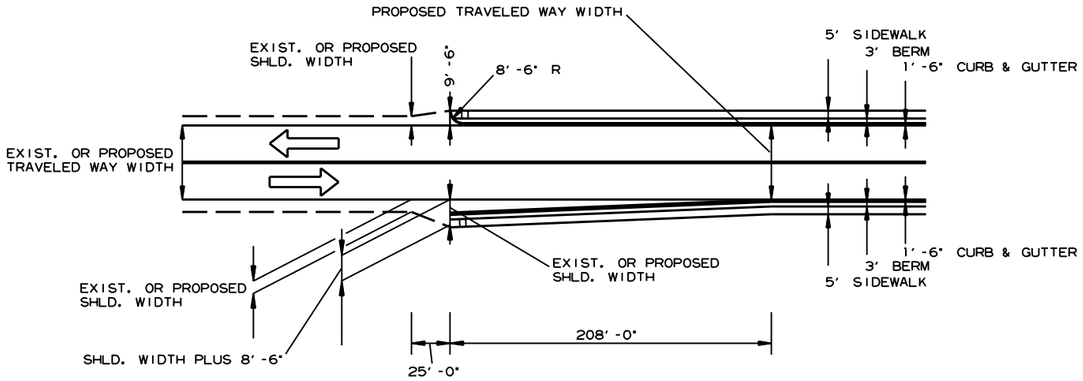
HWY. 190 EAST
STA. 200+11.00 - STA. 276+22.00

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

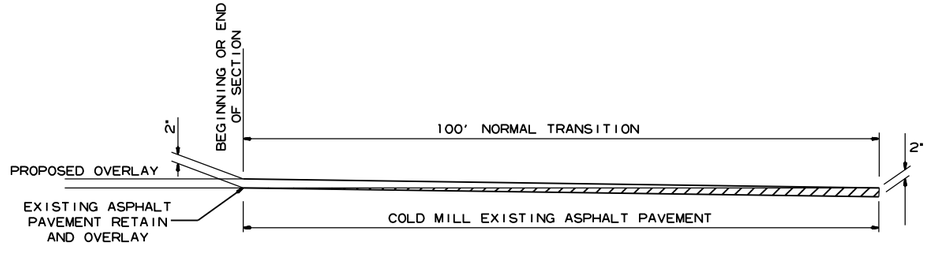
TYPICAL SECTIONS OF IMPROVEMENT

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	5	168
		SPECIAL DETAILS				

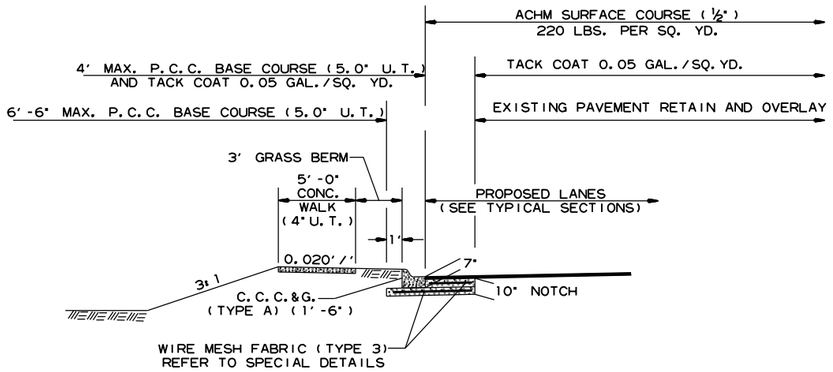
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025



TRANSITION FROM OPEN SHOULDER TO CURB & GUTTER SECTION

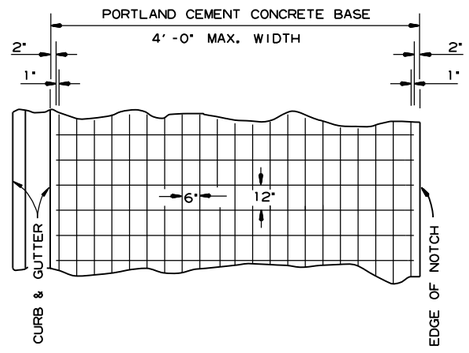


DETAIL FOR TRANSITIONS



P.C.C. BASE WIDENING DETAIL

STA.	STA.	SIDE
200+71	207+38	RT
214+09	221+64	RT
224+64	226+19	LT
226+19	236+05	RT
236+05	243+43	LT
243+43	250+85	LT & RT
250+85	260+27	LT
260+27	276+22	LT & RT



6" X 12" MESH FABRIC (TYPE 3) (W5.5 X W2.9) = 4.26 LBS./SQ.YD.

NOTES:

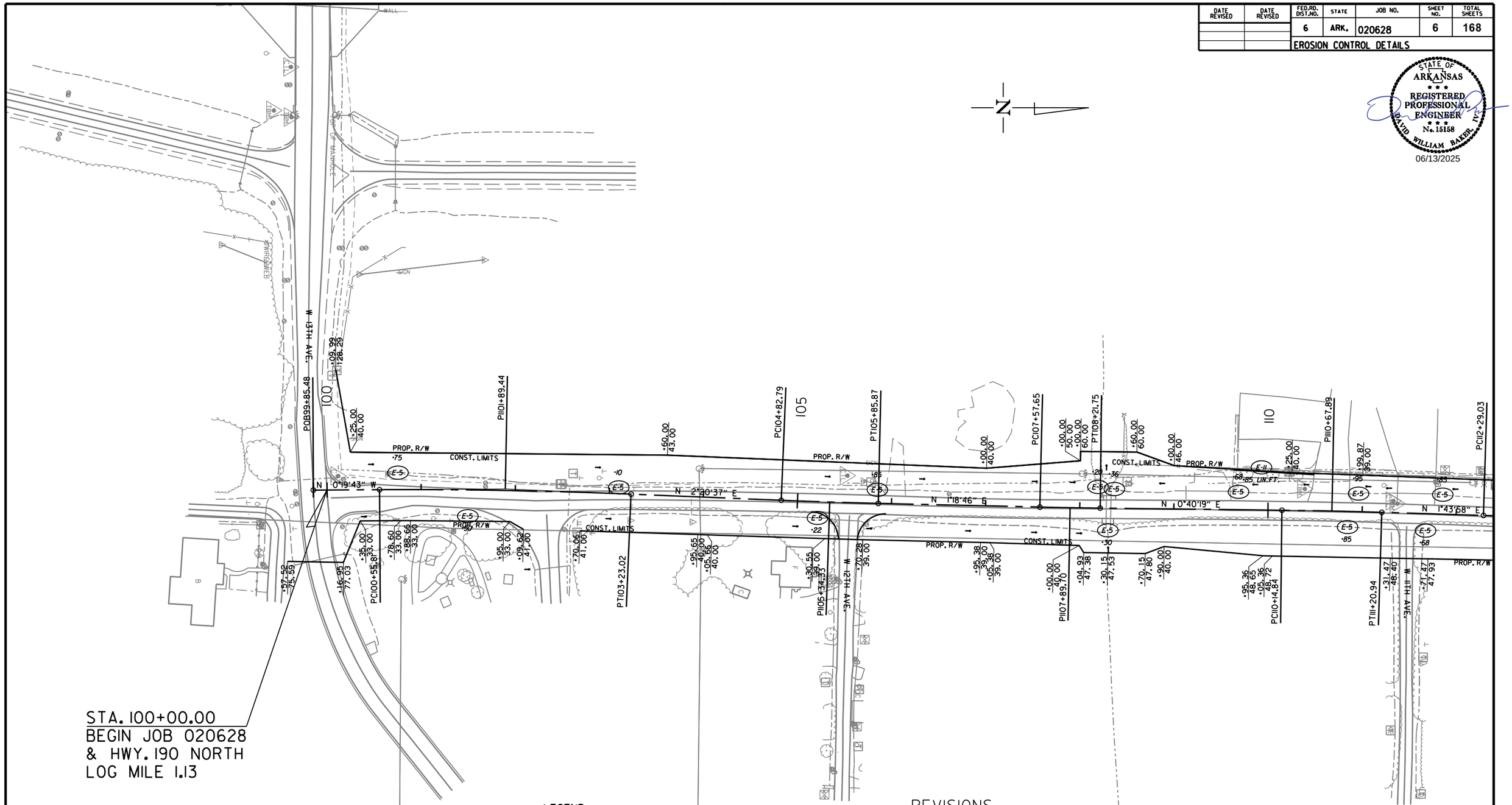
1. LAP MESH FABRIC MIN. 12" LONGITUDINALLY AND MIN. 6" TRANSVERSELY.
2. MESH FABRIC IS NOT REQUIRED WHEN WIDTH OF PORTLAND CEMENT CONCRETE BASE IS LESS THAN 12".
3. MESH FABRIC (TYPE 3) WILL NOT BE PAID FOR DIRECTLY, BUT FULL COMPENSATION THEREFORE WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE BID PER SQ. YD. FOR PORTLAND CEMENT CONCRETE BASE (XX" U.T.)

DETAIL OF REINFORCING STEEL FOR PAVEMENT (MESH FABRIC TYPE 3)

RB43088 8/6/2025
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	6	168
		EROSION CONTROL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



LEGEND

E-5	= SAND BAG DITCH CHECKS
E-11	= SILT FENCE

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

REVISIONS

DATE OF REVISION	REVISION

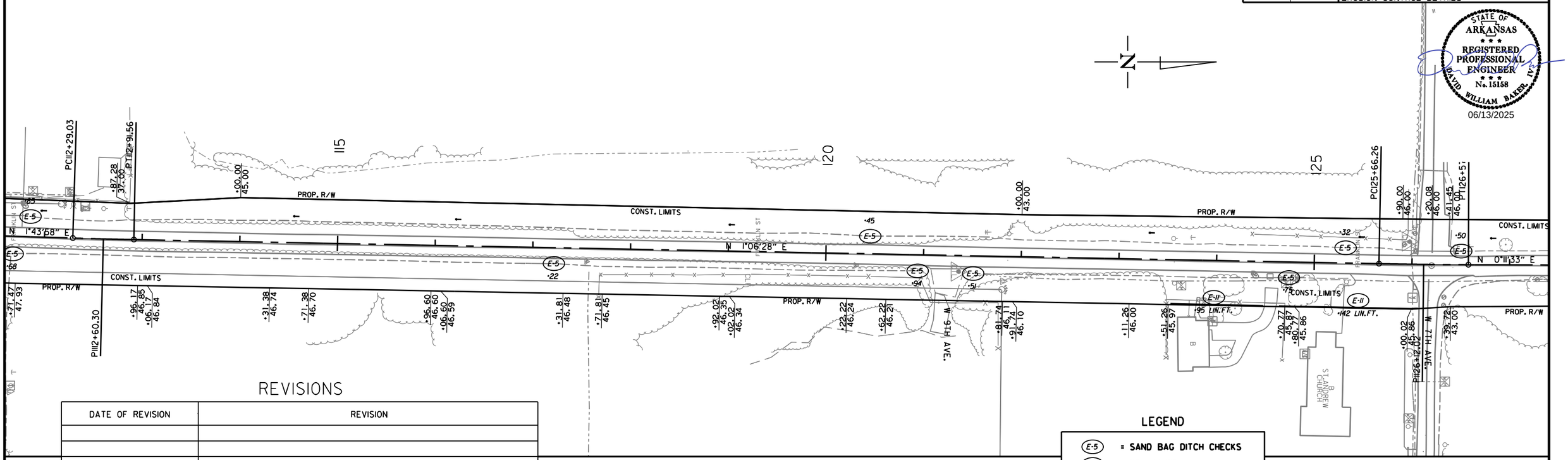
CLEARING AND GRUBBING
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	7	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



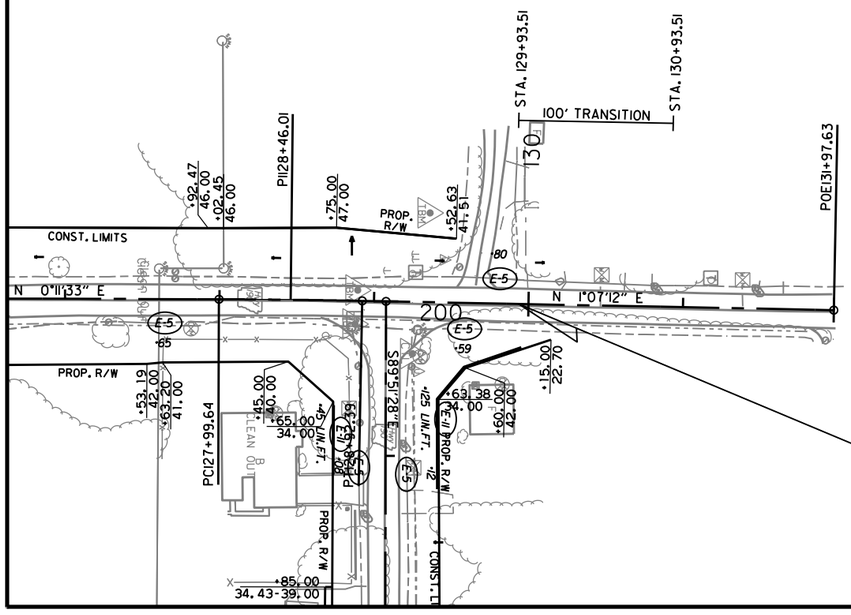
REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-5 = SAND BAG DITCH CHECKS
E-11 = SILT FENCE

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.



STA. 129+93.51
END HWY. 190 NORTH

CLEARING AND GRUBBING
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	8	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

STA. 200+11.00
BEGIN HWY. 190 EAST
LOG MILE 1.68

N

REVISIONS

DATE OF REVISION	REVISION

LEGEND

(E-5) = SAND BAG DITCH CHECKS
(E-11) = SILT FENCE

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

CLEARING AND GRUBBING
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	9	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-5 = SAND BAG DITCH CHECKS
E-II = SILT FENCE

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

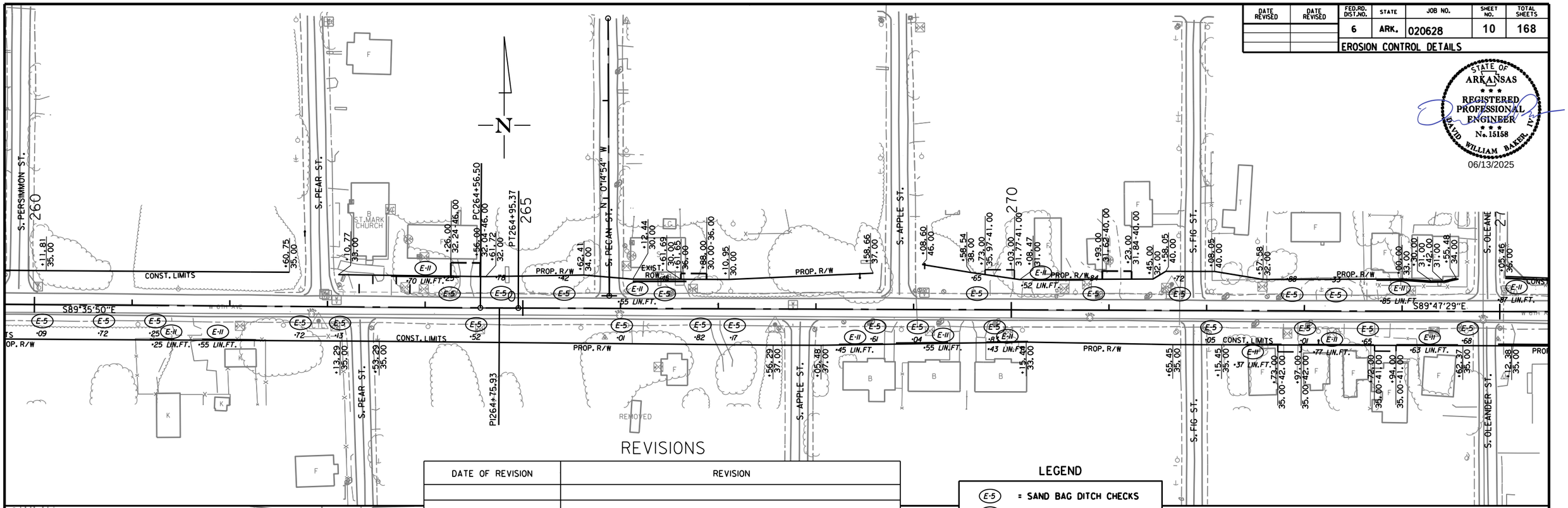
CLEARING AND GRUBBING
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	10	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



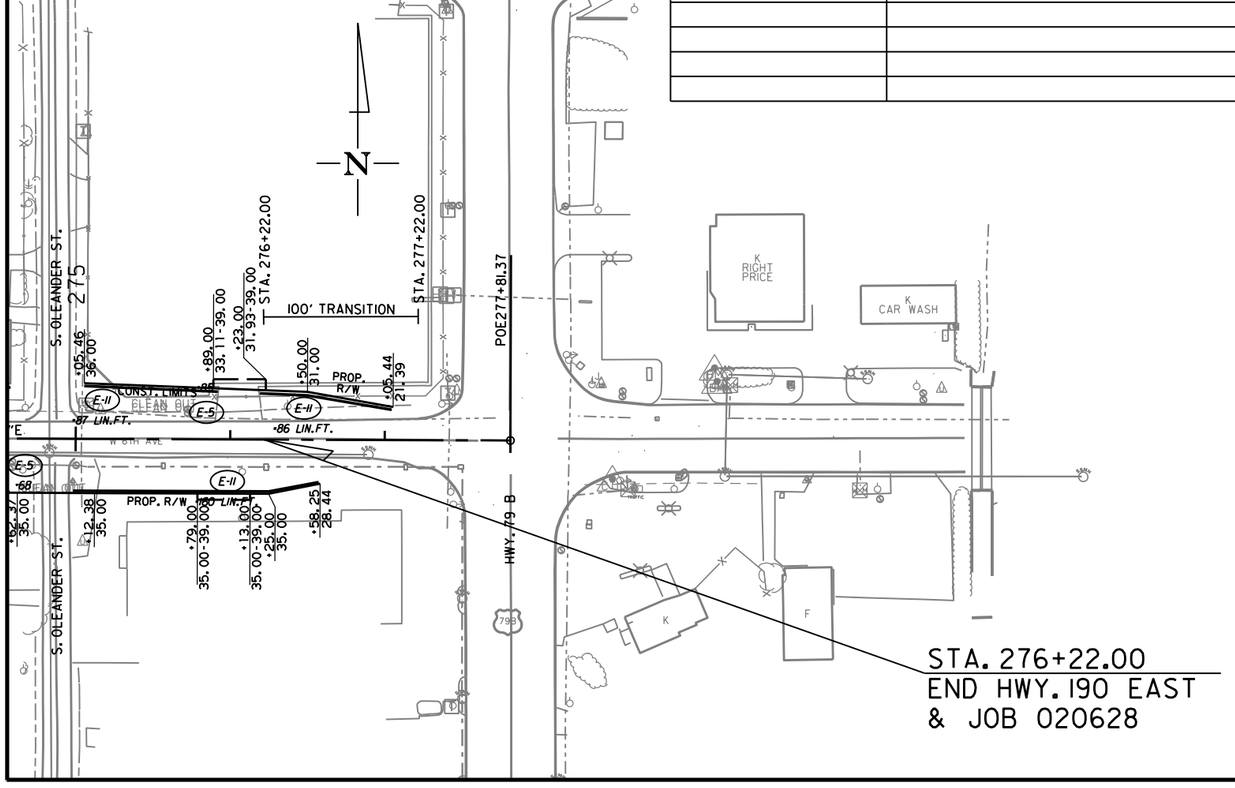
REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-5 = SAND BAG DITCH CHECKS
E-11 = SILT FENCE

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.



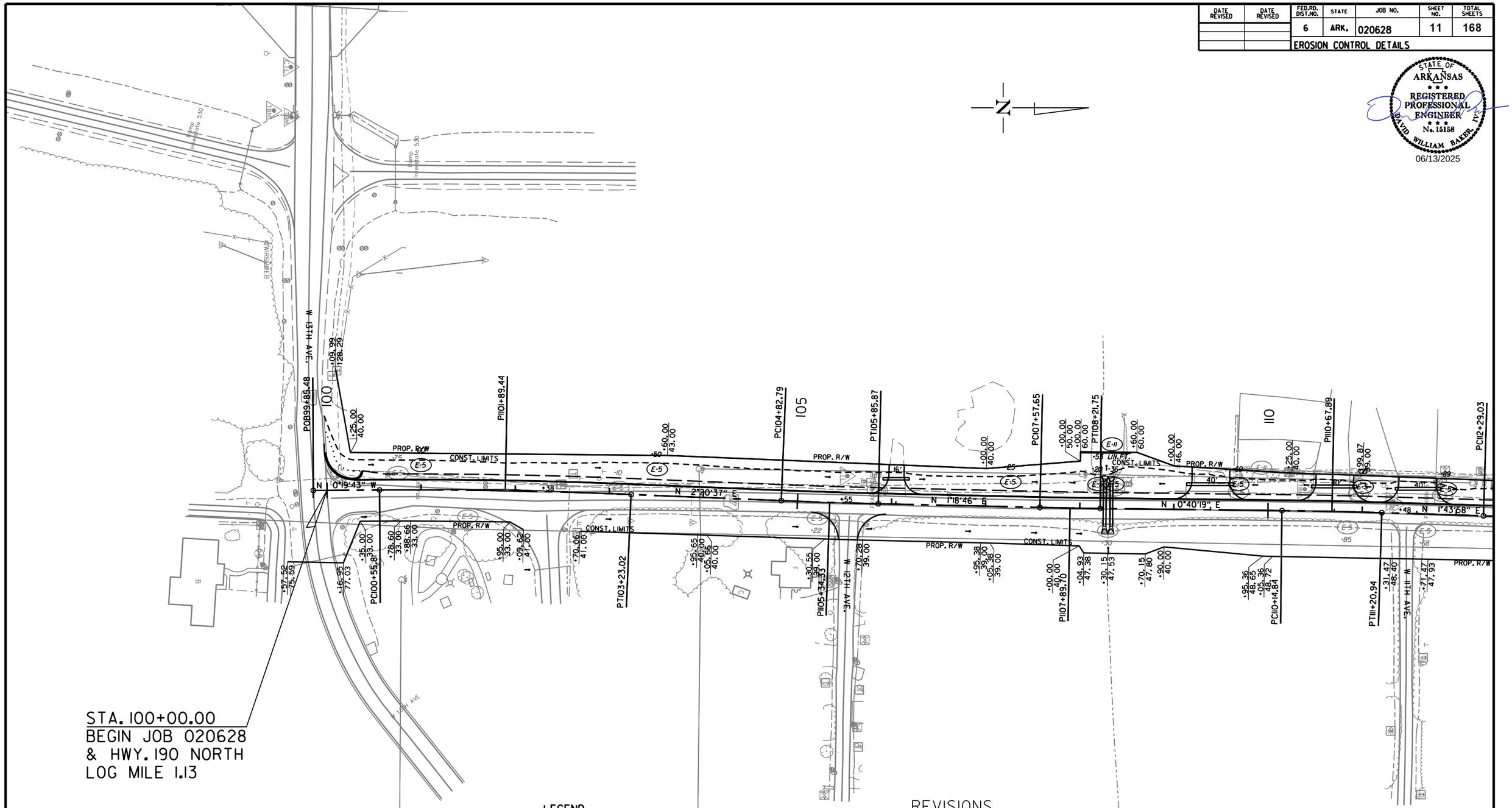
STA. 276+22.00
END HWY. 190 EAST
& JOB 020628

CLEARING AND GRUBBING
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	11	168
		EROSION CONTROL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



STA. 100+00.00
BEGIN JOB 020628
& HWY. 190 NORTH
LOG MILE 1.13

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-11	= SILT FENCE

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

REVISIONS

DATE OF REVISION	REVISION

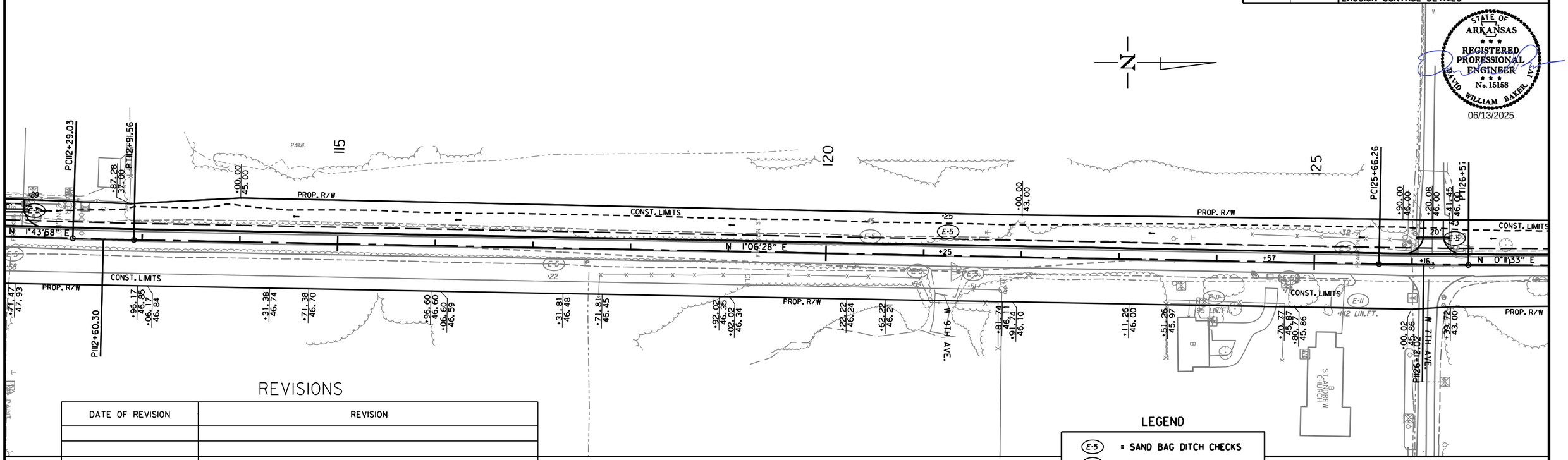
STAGE I
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	12	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



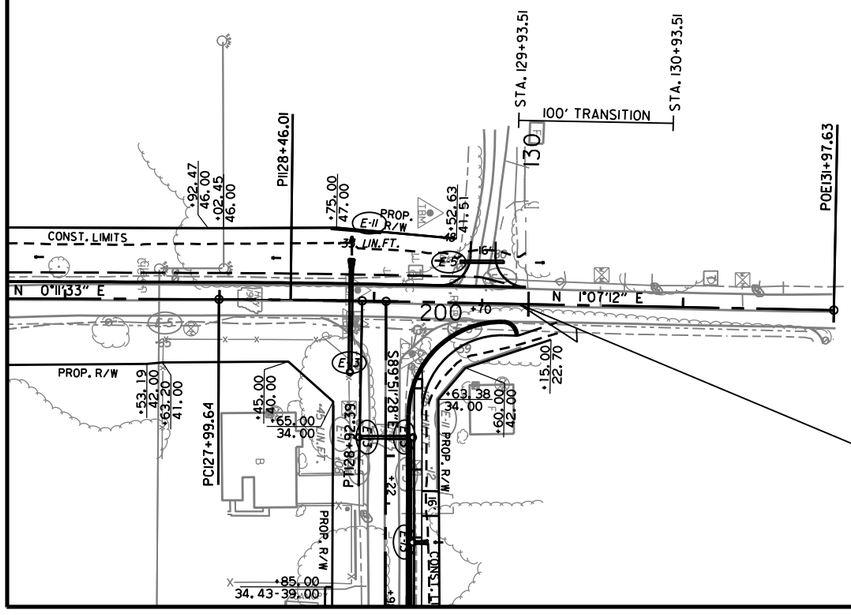
REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-5 = SAND BAG DITCH CHECKS
E-11 = SILT FENCE

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.



STA. 129+93.51
END HWY. 190 NORTH

STAGE I
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
RO20628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	13	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

STA. 200+11.00
BEGIN HWY. 190 EAST
LOG MILE 1.68

N

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- E-5 = SAND BAG DITCH CHECKS
- E-11 = SILT FENCE
- E-13 = FILTER SOCKS

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

STAGE I
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	14	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- E-5 = SAND BAG DITCH CHECKS
- E-11 = SILT FENCE
- E-13 = FILTER SOCKS

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

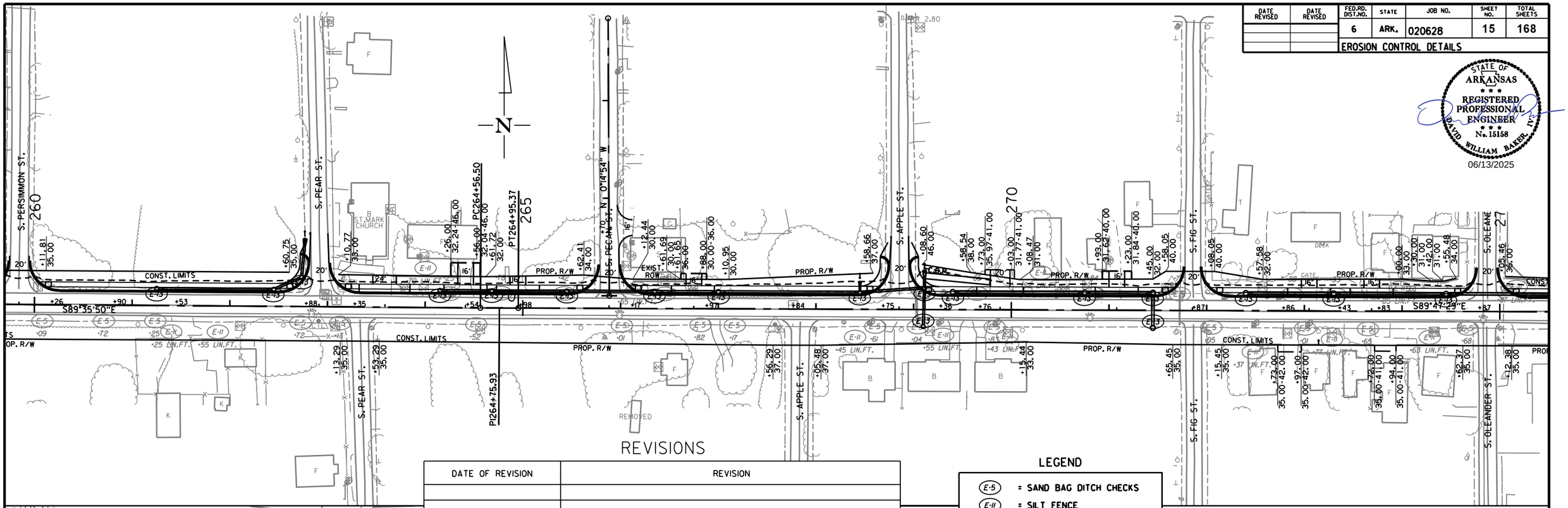
STAGE I
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	15	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



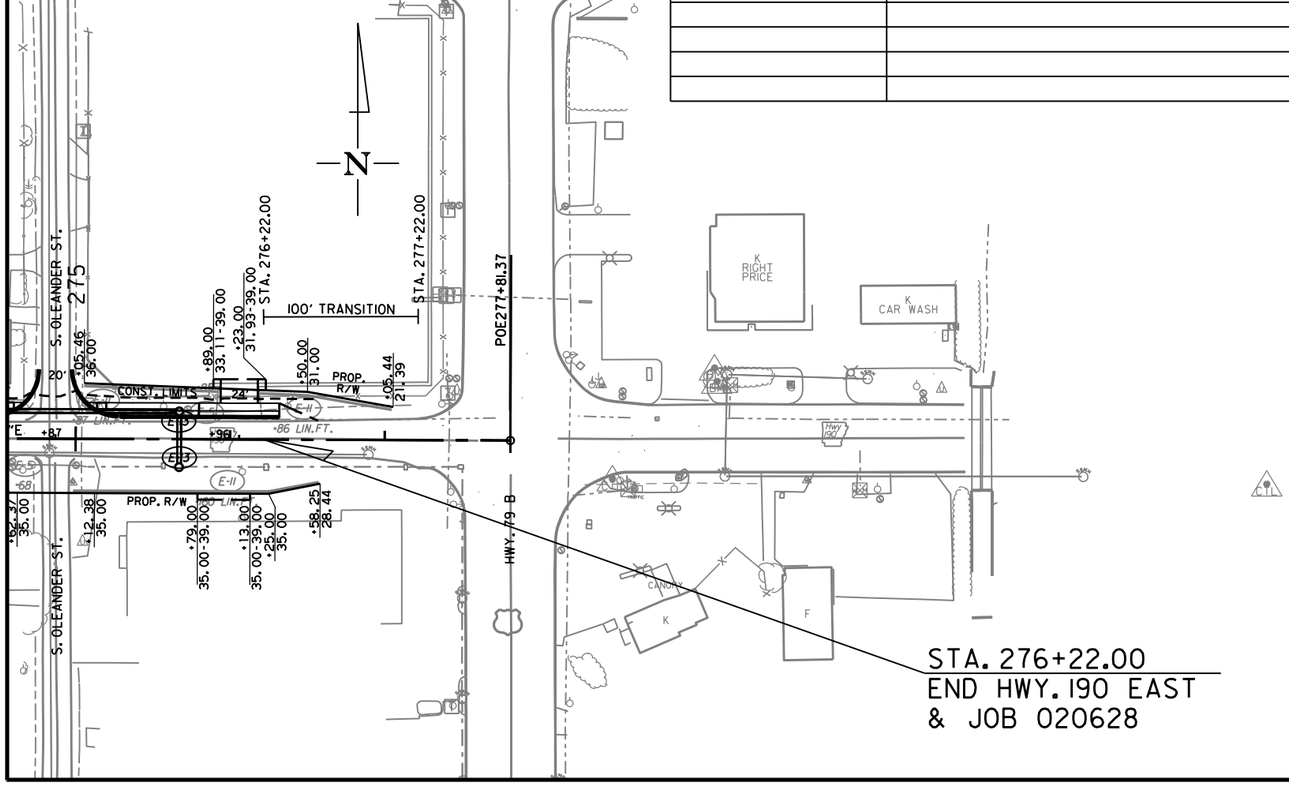
REVISIONS

DATE OF REVISION	REVISION

LEGEND

- E-5 = SAND BAG DITCH CHECKS
- E-11 = SILT FENCE
- E-13 = FILTER SOCKS

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.



STA. 276+22.00
END HWY. 190 EAST
& JOB 020628

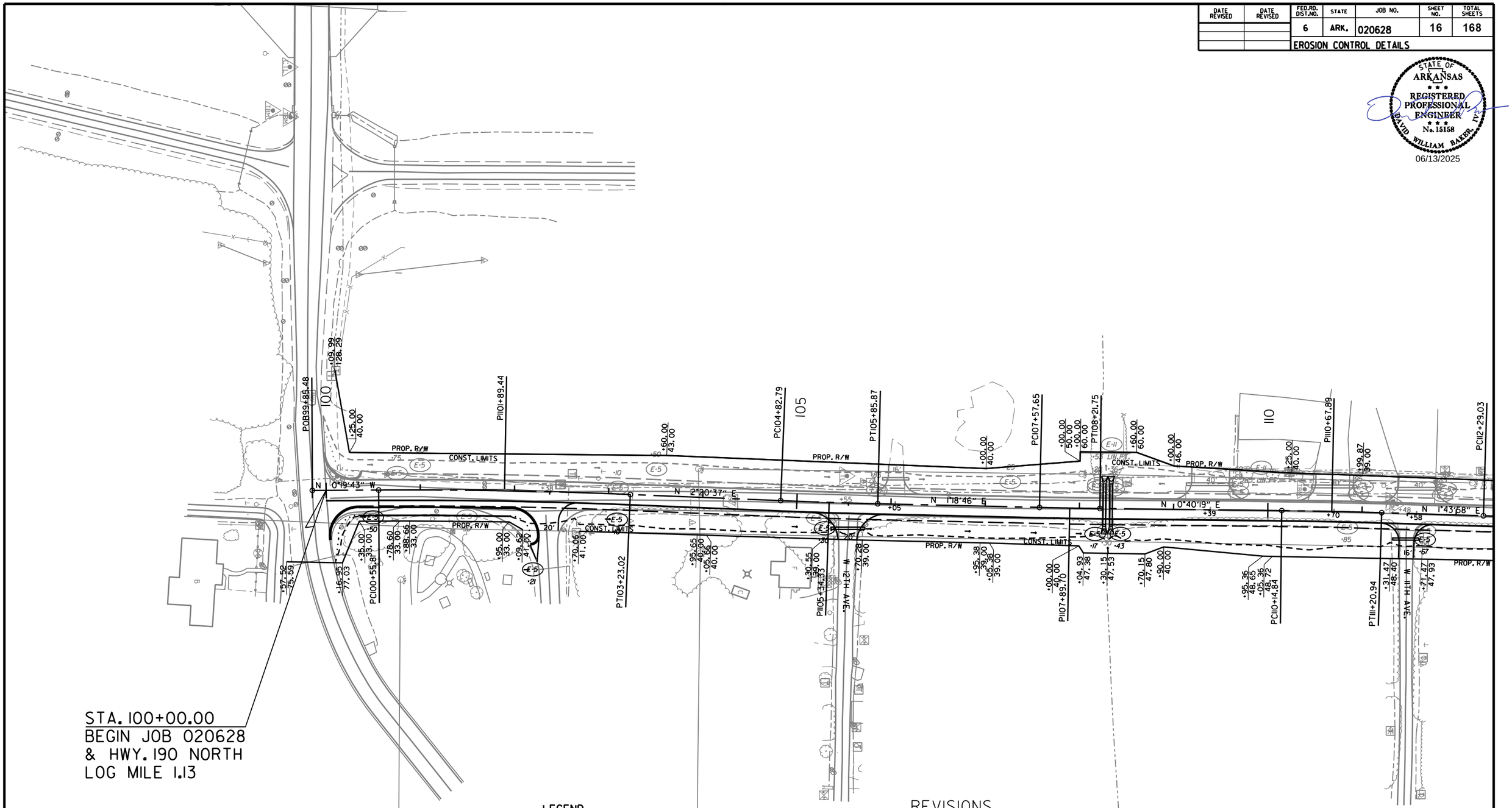
STAGE I
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	16	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



STA. 100+00.00
BEGIN JOB 020628
& HWY. 190 NORTH
LOG MILE 1.13

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-11	= SILT FENCE

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

REVISIONS

DATE OF REVISION	REVISION

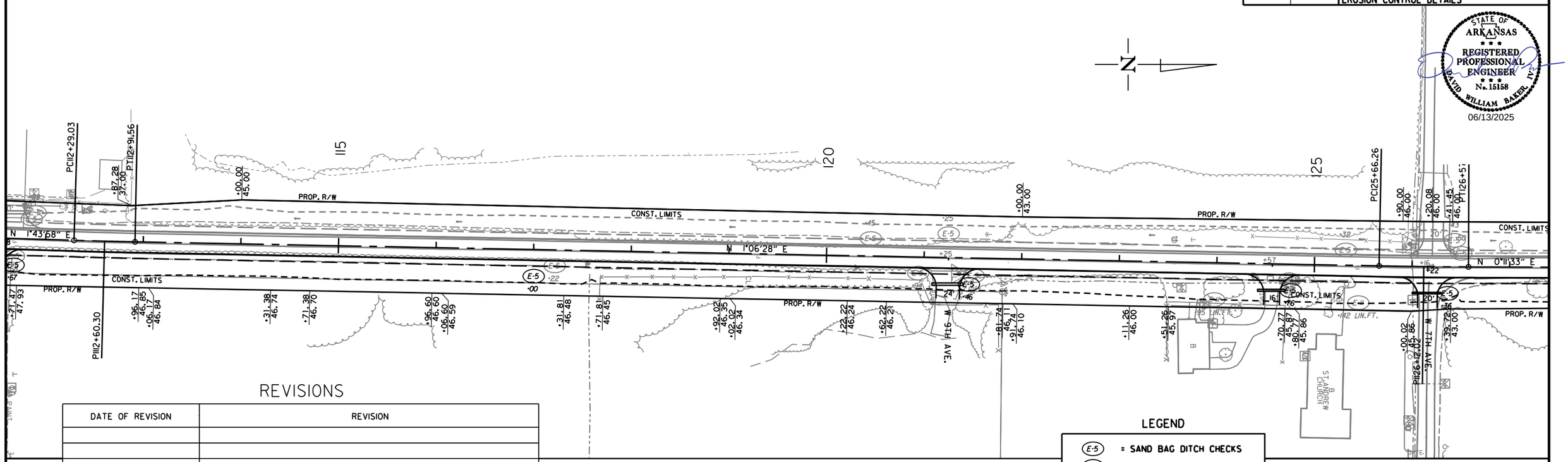
STAGE 2
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	17	168

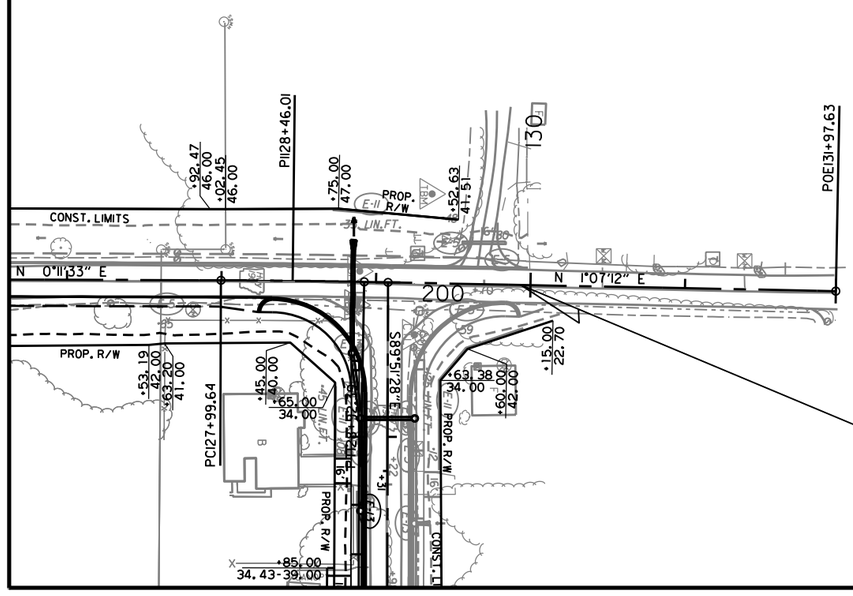
EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



REVISIONS

DATE OF REVISION	REVISION



STA. 129+93.51
END HWY. 190 NORTH

LEGEND

E-5 = SAND BAG DITCH CHECKS
E-11 = SILT FENCE

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	18	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

STA. 200+11.00
BEGIN HWY. 190 EAST
LOG MILE 1.68

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- E-5 = SAND BAG DITCH CHECKS
- E-11 = SILT FENCE
- E-13 = FILTER SOCKS

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	19	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-11) = SILT FENCE
- (E-13) = FILTER SOCKS

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

S. GRANT ST.
S. TAFT ST.
S. HEMLOCK ST.
S. PERSIMMON ST.
MATTHEW'S AUTO REPAIR
K/R UNITY TRIPLE

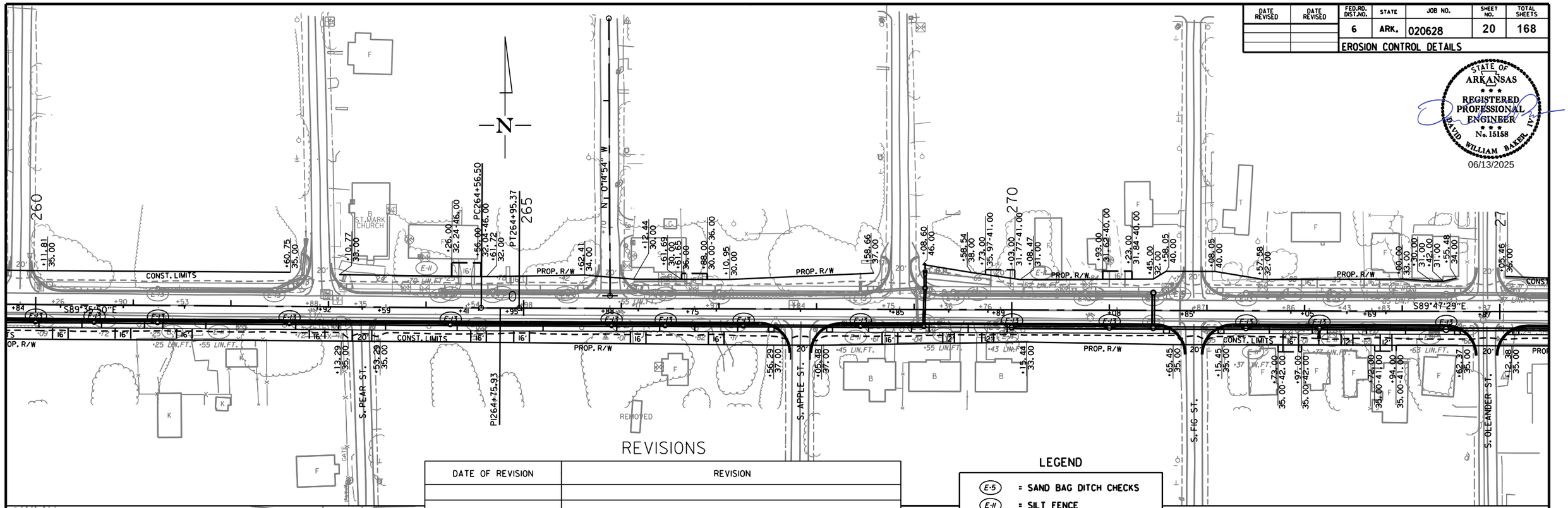
RB43088 6/5/2025
RO20628.DGN MicroStation v8.11.9.578

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	20	168

EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-11) = SILT FENCE
- (E-13) = FILTER SOCKS

Note: Perimeter controls shall be placed as clearing and grubbing operations are started.

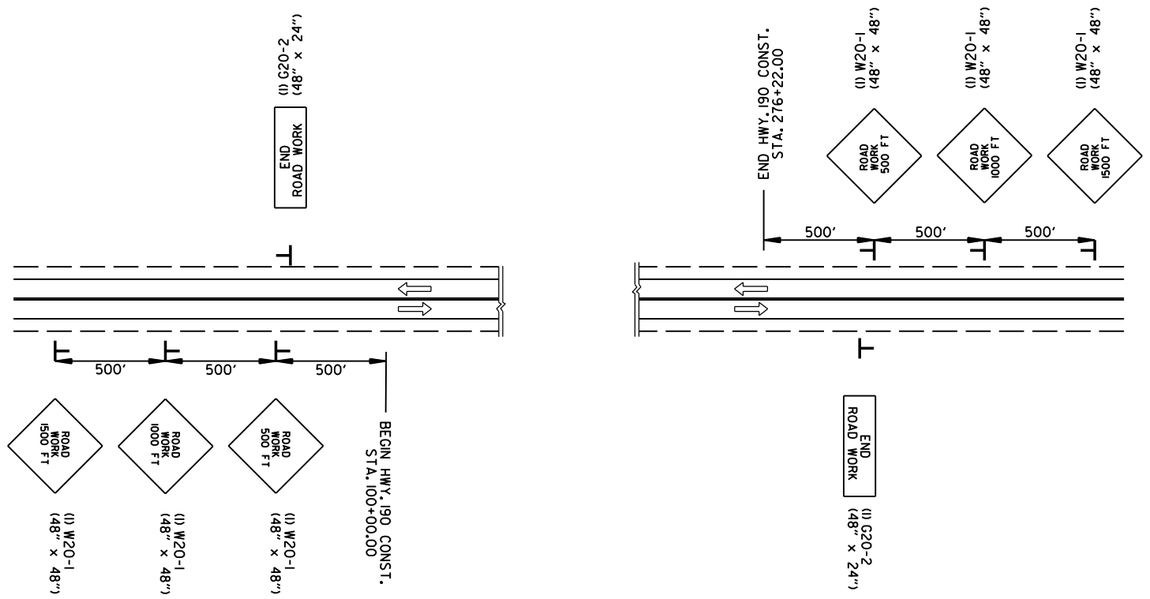
STA. 276+22.00
END HWY. 190 EAST
& JOB 020628

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

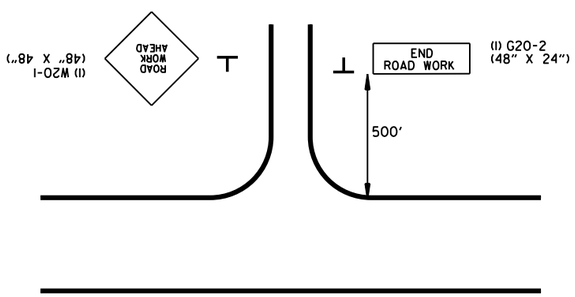
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	21	168
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



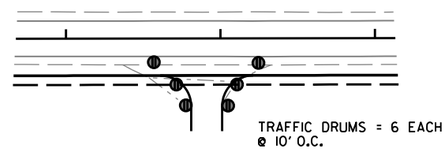
ADVANCE WARNING
(ALL STAGES)

BUMP	(2) W8-1 (30" X 30")	ALL STAGES TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER
DO NOT PASS	(4) R4-1 (24" X 30")	ALL STAGES SPACED AT 1/4 MILE INTERVALS
RIGHT SHOULDER CLOSED	(4) W21-5a (36" x 36")	ALL STAGES TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER



ADVANCE WARNING - SIDE ROADS
(ALL STAGES)

STA. 126+16 RT. - W. 7TH ST.
STA. 126+22 LT. - W. 7TH ST.
STA. 213+30 LT. & RT. - OAKWOOD RD.
STA. 217+69 LT. - S. PRYCE ST.
STA. 222+09 RT. - S. YOUNG ST.
STA. 222+14 LT. - S. YOUNG ST.
STA. 227+62 LT. - S. CROSS ST.
STA. 233+83 RT. - S. GRANT ST.
STA. 236+55 LT. - S. LEE ST.
STA. 241+05 LT. - S. TAFT ST.
STA. 241+34 RT. - S. TAFT ST.
STA. 254+47 LT. - S. HEMLOCK ST.
STA. 254+50 RT. - S. HEMLOCK ST.
STA. 258+94 RT. - S. PERSIMMON ST.
STA. 259+84 LT. - S. PERSIMMON ST.
STA. 262+92 LT. - S. PEAR ST.
STA. 263+35 RT. - S. PEAR ST.
STA. 265+88 LT. - S. PECAN ST.
STA. 267+84 RT. - S. APPLE ST.
STA. 268+85 LT. - S. APPLE ST.
STA. 271+85 LT. - S. FIG ST.
STA. 271+87 RT. - S. FIG ST.
STA. 274+87 LT. & RT. - S. OLEANDER ST.



DRIVEWAY/TRAFFIC DRUM DETAIL

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	22	168
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER
06/13/2025

STAGE 1 CONSTRUCTION SEQUENCE:

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE BEGINNING AND END OF JOB AS SHOWN ON THE ADVANCE WARNING DETAILS. INSTALL ROAD WORK AHEAD (W20-1) SIGN ON SIDE ROADS AS SHOWN IN THE ADVANCE WARNING DETAILS.

MAINTAIN TRAFFIC IN EXISTING LANES USING TRAFFIC DRUMS SPACED 35' O.C. USE TRAFFIC DRUMS TO DELINEATE DRIVEWAYS.

APPLY LEVELING COURSE IF AND WHERE DIRECTED BY THE ENGINEER.

INSTALL CONSTRUCTION PAVEMENT MARKINGS AND TRAFFIC DRUMS AS SHOWN IN THE STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

NOTCH AND WIDEN ON LEFT FROM STA. 100+00.00 - STA. 129+93.51 AND FROM STA. 200+11.00 - STA. 276+22.00.

CONSTRUCT DRAINAGE STRUCTURES LEFT OF CENTERLINE FROM STA. 100+00.00 - STA. 129+93.51 AND FROM STA. 200+11.00 - STA. 276+22.00, AND INSTALL CROSS DRAINS AT STA. 108+30, 213+14, 221+94, 241+55, 253+82, 258+43, 269+10, 271+45, AND 275+67.

MAINTENANCE OF TRAFFIC - STAGE 1 QUANTITIES

SIGNS = 664 SQ. FT.
TRAFFIC DRUMS = 568 EACH
CONSTRUCTION PAVEMENT MARKINGS = 42571 LIN. FT.

STAGE 2 CONSTRUCTION SEQUENCE:

RETAIN ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE BEGINNING AND END OF JOB AS SHOWN ON THE ADVANCE WARNING DETAILS.

APPLY CONSTRUCTION PAVEMENT MARKINGS AND TRAFFIC DRUMS AS SHOWN IN THE STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

SHIFT TRAFFIC TO STAGE 2 CENTERLINE AS SHOWN USING TRAFFIC DRUMS SPACED 35' O.C.
USE TRAFFIC DRUMS TO DELINEATE DRIVEWAYS.

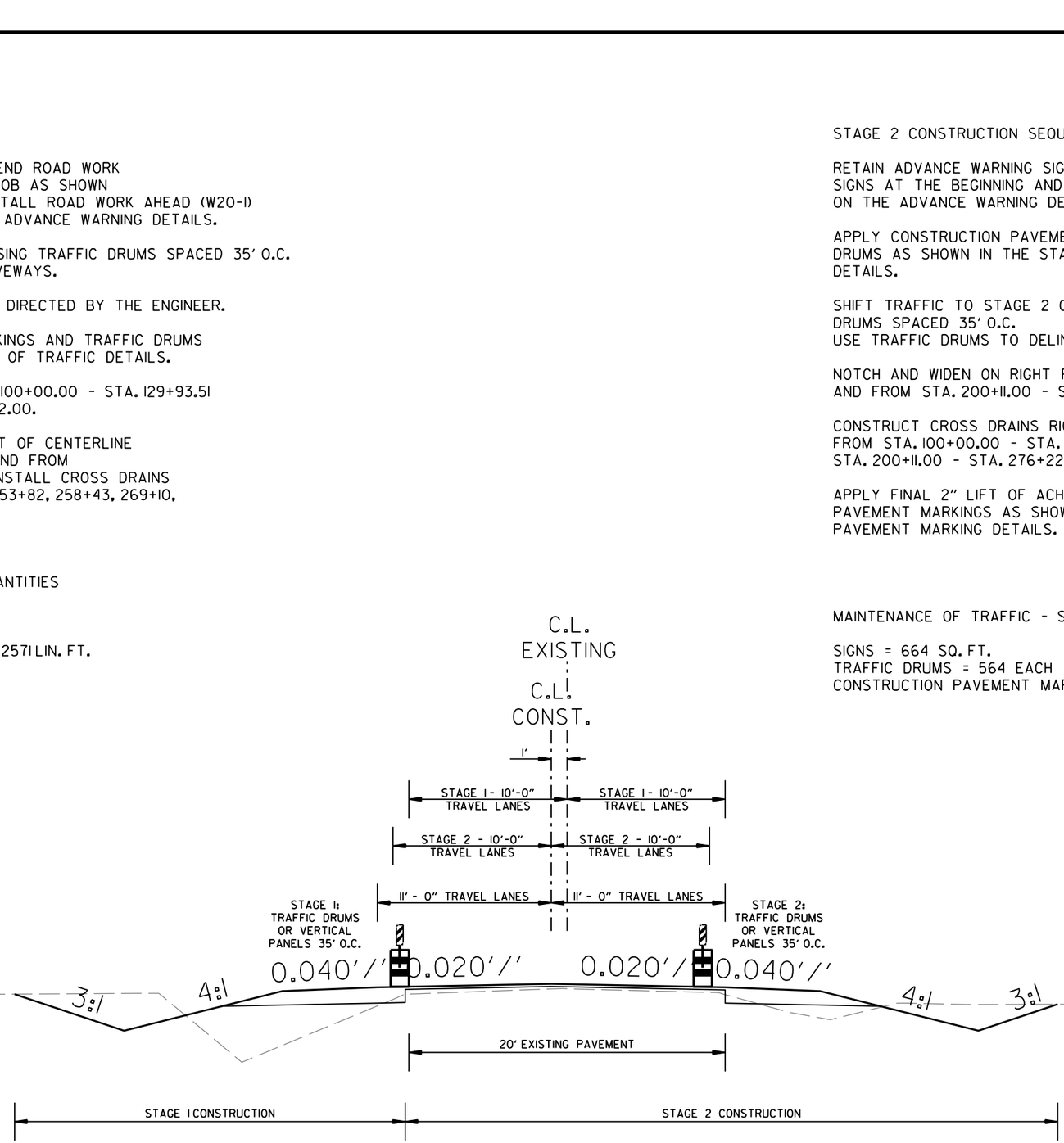
NOTCH AND WIDEN ON RIGHT FROM STA. 100+00.00 - STA. 129+93.51 AND FROM STA. 200+11.00 - STA. 276+22.00.

CONSTRUCT CROSS DRAINS RIGHT OF CENTERLINE FROM STA. 100+00.00 - STA. 129+93.51 AND FROM STA. 200+11.00 - STA. 276+22.00.

APPLY FINAL 2" LIFT OF ACHM AND PLACE PERMANENT PAVEMENT MARKINGS AS SHOWN IN THE PERMANENT PAVEMENT MARKING DETAILS.

MAINTENANCE OF TRAFFIC - STAGE 2 QUANTITIES

SIGNS = 664 SQ. FT.
TRAFFIC DRUMS = 564 EACH
CONSTRUCTION PAVEMENT MARKINGS = 43151 LIN. FT.

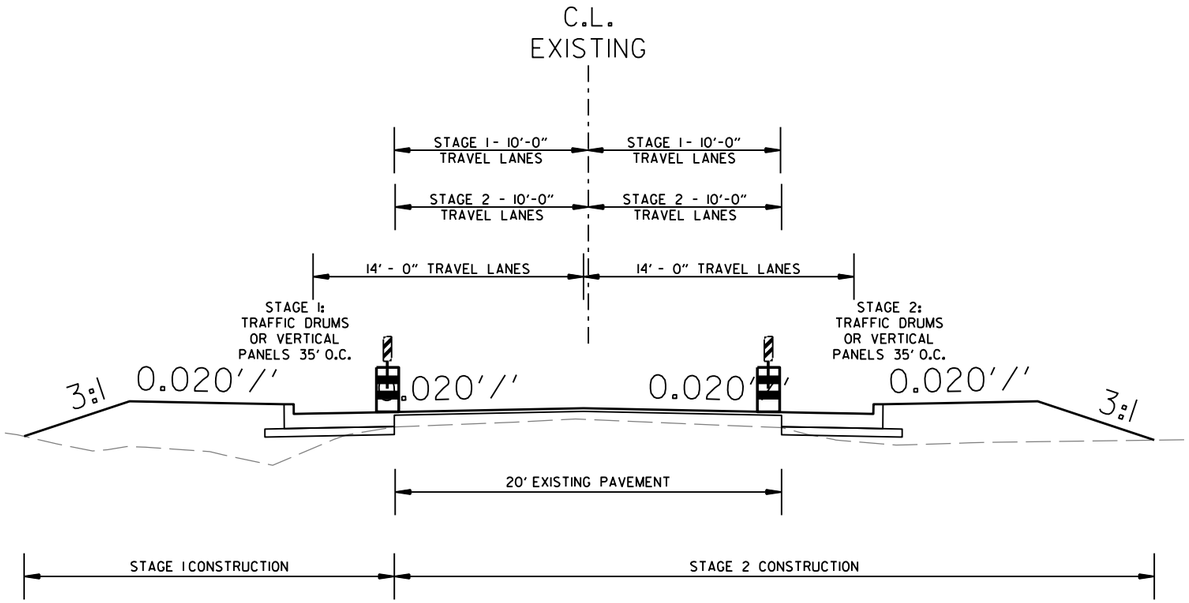


STAGE CONSTRUCTION
STA. 100+00.00 - STA. 129+93.51

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	23	168
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

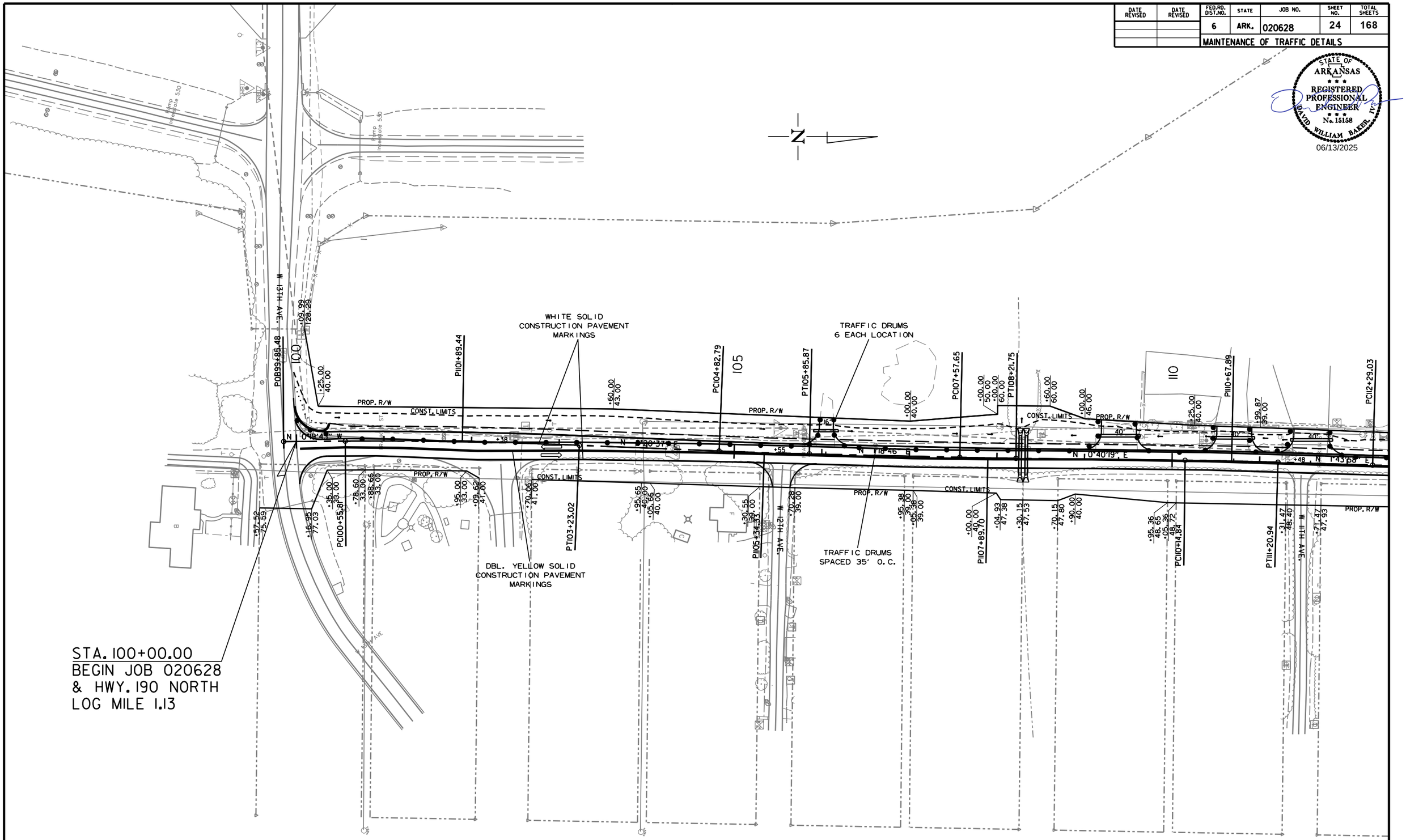


STAGE CONSTRUCTION
STA. 200+11.00 - STA. 276+22.00

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	24	168
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



STA. 100+00.00
BEGIN JOB 020628
& HWY. 190 NORTH
LOG MILE 1.13

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	25	168
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS 6 EACH LOCATION

TRAFFIC DRUMS SPACED 35' O.C.

PC112+29.03
PT112+91.56
PI112+60.30
PC125+66.26
PT125+12.05
PROP. R/W
CONST. LIMITS
N 1°43'58" E
N 1°06'28" E
N 0°11'33" E
W 7TH AVE
W 9TH AVE
ST. ANDREW CHURCH

STA. 129+93.51
STA. 130+93.51
100' TRANSITION
PI128+46.01
PC127+99.64
PT128+92.39
POE131+97.63
N 1°07'12" E

STA. 129+93.51
END HWY. 190 NORTH

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	26	168

MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

STA. 200+11.00
BEGIN HWY. 190 EAST
LOG MILE 1.68

N 10°12' E

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

PROP. R/W

CONST. LIMITS

S89°51'28"E

S89°35'58"E

S89°57'30"E

N85°17'20"E

TRAFFIC DRUMS SPACED 35' O.C.

TRAFFIC DRUMS 6 EACH LOCATION

S. PRYCE ST.

S. YOUNG ST.

S. GROSS ST.

OAKWOOD RD.

CLEAN OUT

PI128+82.39

PC127+99.64

PI213+30.22

PC213+04.41

PT213+56.04

PC224+03.11

PI225+21.79

PC226+53.43

PT226+40.17

PI227+50.01

PT228+46.37

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	27	168

MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS 6 EACH LOCATION

TRAFFIC DRUMS SPACED 35' O.C.

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS SPACED 35' O.C.

TRAFFIC DRUMS 6 EACH LOCATION

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	28	168

MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
DAVID WILLIAM BAKER, IV
No. 15158
06/13/2025

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS SPACED 35' O.C.

TRAFFIC DRUMS 6 EACH LOCATION

STA. 276+22.00
END HWY. 190 EAST
& JOB 020628

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS 6 EACH LOCATION

100' TRANSITION

TRAFFIC DRUMS SPACED 35' O.C.

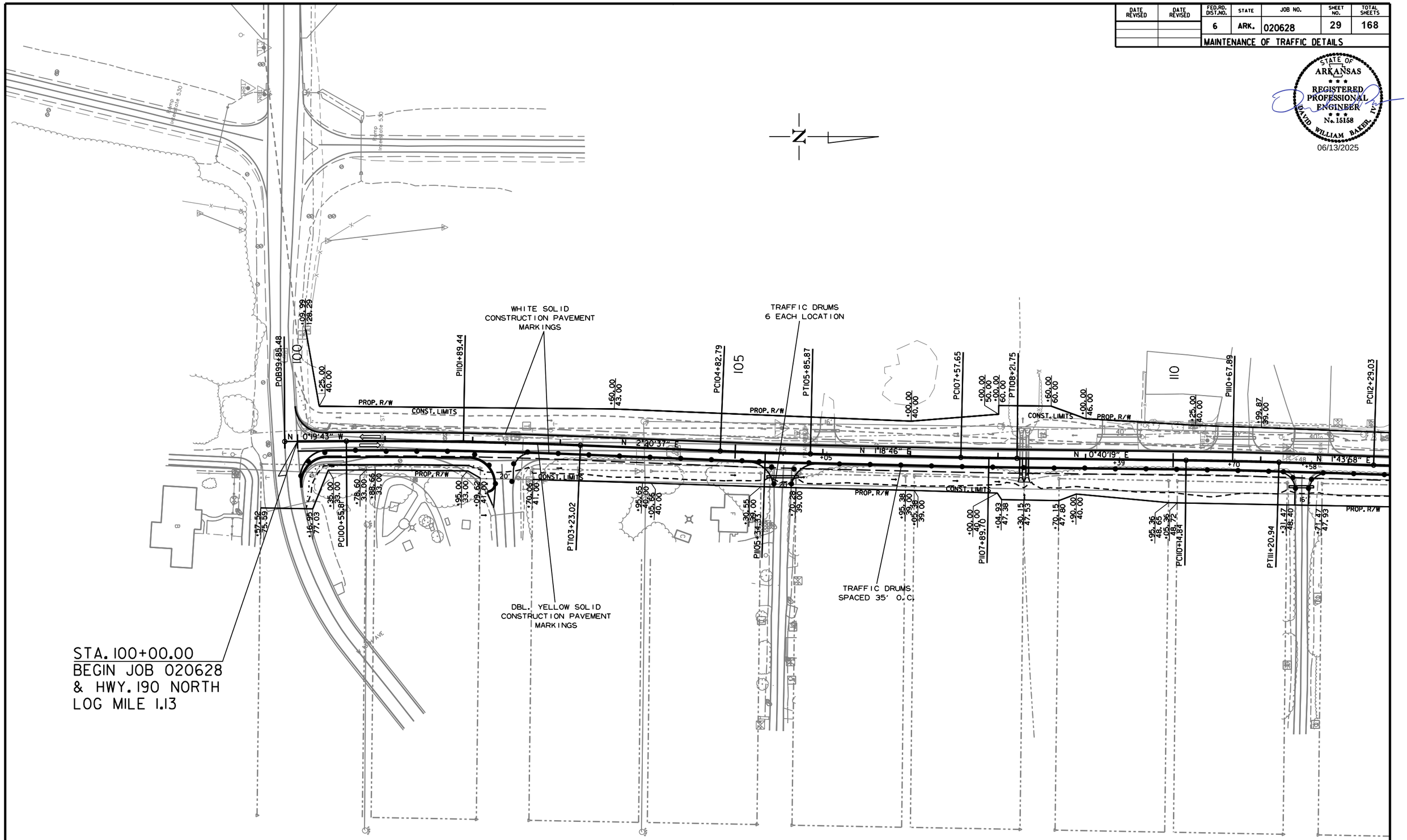
DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

RB43088 6/5/2025
RO20628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	29	168
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	30	168
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS SPACED 35' O.C.

TRAFFIC DRUMS 6 EACH LOCATION

PROP. R/W

CONST. LIMITS

N 1°43'58" E

N 1°06'28" E

N 0°11'33" E

PC112+29.03

PT112+91.56

PI112+60.30

PC125+66.26

PI125+12.02

PT125+41.45

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

STA. 129+93.51

STA. 130+93.51

100' TRANSITION

PI128+46.01

POE131+97.63

PC127+99.64

N 0°11'33" E

N 1°07'12" E

PROP. R/W

CONST. LIMITS

TRAFFIC DRUMS SPACED 35' O.C.

STA. 129+93.51
END HWY. 190 NORTH

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	31	168
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

STA. 200+11.00
BEGIN HWY. 190 EAST
LOG MILE 1.68

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS SPACED 35' O.C.

TRAFFIC DRUMS 6 EACH LOCATION

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS SPACED 35' O.C.

TRAFFIC DRUMS 6 EACH LOCATION

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	32	168

MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS SPACED 35' O.C.

TRAFFIC DRUMS 6 EACH LOCATION

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS 6 EACH LOCATION

TRAFFIC DRUMS SPACED 35' O.C.

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	33	168

MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

TRAFFIC DRUMS SPACED 35' O.C.

TRAFFIC DRUMS 6 EACH LOCATION

STA. 276+22.00
END HWY. 190 EAST
& JOB 020628

DBL. YELLOW SOLID CONSTRUCTION PAVEMENT MARKINGS

100' TRANSITION

TRAFFIC DRUMS SPACED 35' O.C.

WHITE SOLID CONSTRUCTION PAVEMENT MARKINGS

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

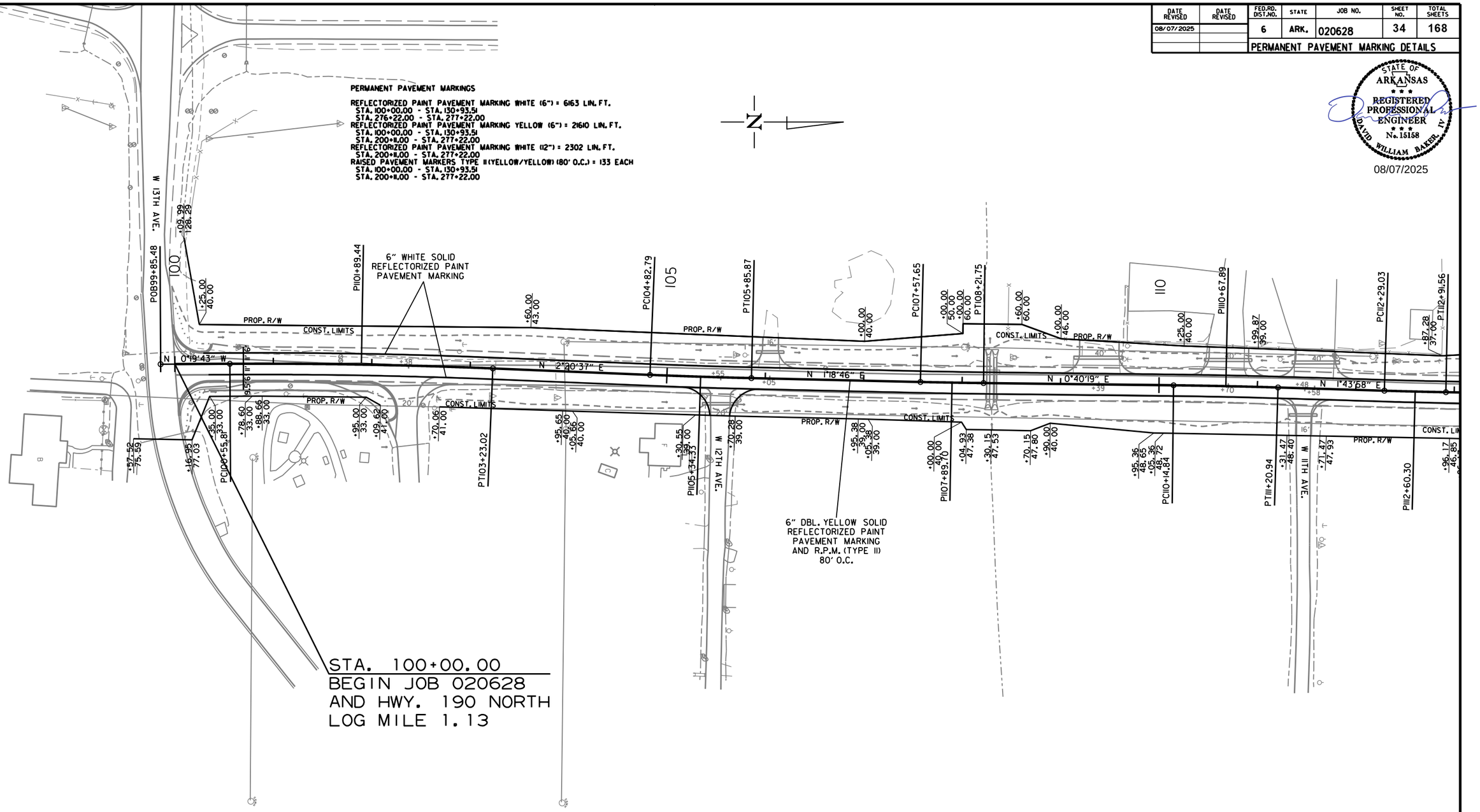
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	34	168
		PERMANENT PAVEMENT MARKING DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

PERMANENT PAVEMENT MARKINGS

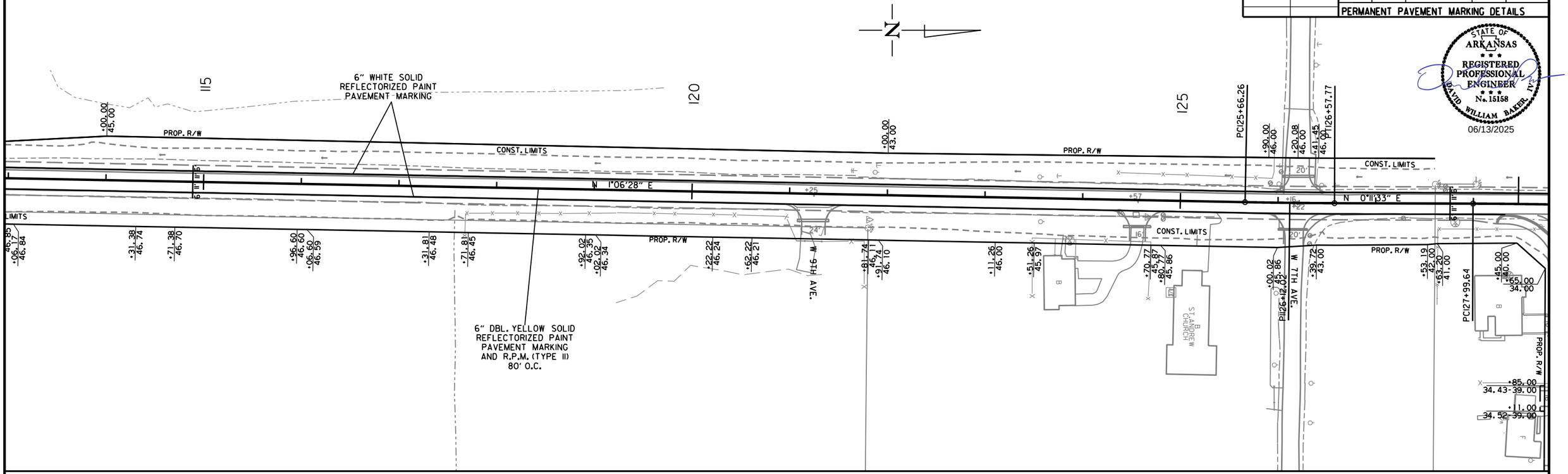
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (6") = 6163 LIN. FT.
STA. 100+00.00 - STA. 130+93.51
STA. 276+22.00 - STA. 277+22.00
REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (6") = 21610 LIN. FT.
STA. 100+00.00 - STA. 130+93.51
STA. 200+11.00 - STA. 277+22.00
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12") = 2302 LIN. FT.
STA. 200+11.00 - STA. 277+22.00
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW) (80' O.C.) = 133 EACH
STA. 100+00.00 - STA. 130+93.51
STA. 200+11.00 - STA. 277+22.00

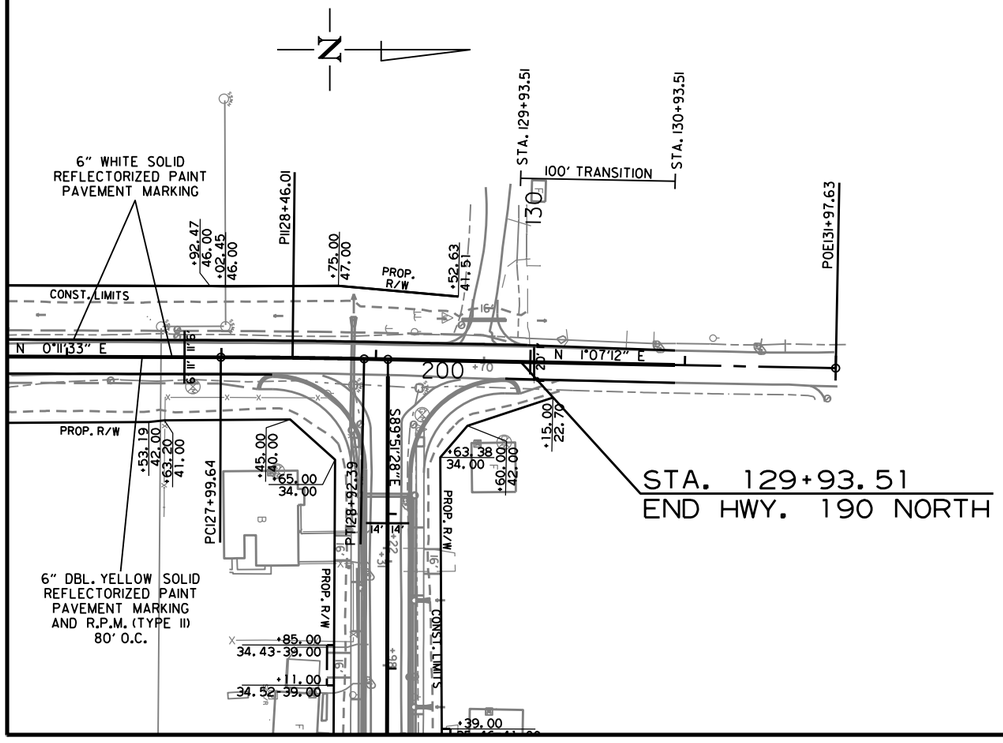


DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	35	168

PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025





STA. 129+93.51
END HWY. 190 NORTH

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	36	168

PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

STA. 200+11.00
BEGIN HWY. 190 EAST
LOG MILE 1.68

N

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

6" DBL. YELLOW SOLID REFLECTORIZED PAINT PAVEMENT MARKING AND R.P.M. (TYPE II) 80' O.C.

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

OAKWOOD RD.

S. PRYCE ST.

S. YOUNG ST.

S. CROSS ST.

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

6" DBL. YELLOW SOLID REFLECTORIZED PAINT PAVEMENT MARKING AND R.P.M. (TYPE II) 80' O.C.

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

PERMANENT PAVEMENT MARKING DETAILS

RB43088 8/7/2025
RO20628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	37	168

PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

6" DBL. YELLOW SOLID REFLECTORIZED PAINT PAVEMENT MARKING AND R.P.M. (TYPE II) 80' O.C.

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

6" DBL. YELLOW SOLID REFLECTORIZED PAINT PAVEMENT MARKING AND R.P.M. (TYPE II) 80' O.C.

PERMANENT PAVEMENT MARKING DETAILS

RB43088 8/7/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	38	168
		PERMANENT PAVEMENT MARKING DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

6" DBL. YELLOW SOLID REFLECTORIZED PAINT PAVEMENT MARKING AND R.P.M. (TYPE II) 80' O.C.

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

6" DBL. YELLOW SOLID REFLECTORIZED PAINT PAVEMENT MARKING AND R.P.M. (TYPE II) 80' O.C.

6" WHITE SOLID REFLECTORIZED PAINT PAVEMENT MARKING

12" WHITE REFLECTORIZED PAINT PAVEMENT MARKING CROSS WALK

STA. 276+22.00
END. HWY. 190 EAST
AND JOB 020628

R843088 8/7/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	39	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV

08/07/2025

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	STAGE 1	STAGE 2	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		VERTICAL PANELS	TRAFFIC DRUMS
			LIN. FT. - EACH			NO.	SQ. FT.	EACH	
W20-1	ROAD WORK 1500 FT.	48"x48"	2	2	2	2	32.0		
W20-1	ROAD WORK 1000 FT.	48"x48"	2	2	2	2	32.0		
W20-1	ROAD WORK 500 FT.	48"x48"	2	2	2	2	32.0		
W20-1	ROAD WORK AHEAD	48"x48"	23	23	23	23	368.0		
G20-2	END ROAD WORK	48"x24"	25	25	25	25	200.0		
R4-1	DO NOT PASS	24"x30"	8	8	8	8	40.0		
W21-5A	RIGHT SHOULDER CLOSED	36"x36"	8	8	8	8	72.0		
	VERTICAL PANELS		568	564	568			568	
	TRAFFIC DRUMS		568	564	568				568
TOTALS:							**776.0**	**568**	**568**

NOTE: THIS IS A LOW TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

THE QUANTITY OF VERTICAL PANELS PROVIDED IN THE CONTRACT IS FOR ONE SIDE OF THE ROADWAY FOR THE FULL LENGTH OF THE JOB. THIS IS THE MAXIMUM QUANTITY REQUIRED TO ALLOW THE CONTRACTOR TO NOTCH ONE MILE, BACKFILL TO A POINT WHERE THE VERTICAL DIFFERENTIAL IS 4" OR LESS, AND THEN NOTCH ANOTHER ONE-MILE SECTION. THIS IS THE MAXIMUM NUMBER OF VERTICAL PANELS THAT WILL BE PAID FOR. REFER TO SECTION 603.02 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS.

CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	STAGE 1	STAGE 2	END OF JOB	CONSTRUCTION PAVEMENT MARKINGS	REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	RAISED PAVEMENT MARKERS	REFLECTORIZED PAINT PAVEMENT MARKING		
						TYPE II	6"		12"
						(YELLOW/YELLOW)	WHITE	YELLOW	WHITE
	LIN. FT. - EACH			LIN. FT.	LIN. FT.	EACH	LIN. FT.		
CONSTRUCTION PAVEMENT MARKINGS	42571	43151		85722					
REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	2324				2324				
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW)			133			133			
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (6")			6163				6163		
REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (6")			21610					21610	
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")			2302						2302
TOTALS:				**85722**	**2324**	**133**	**6163**	**21610**	**2302**

NOTE: THIS IS A LOW TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

NOTE: THE 6" YELLOW STRIPING QUANTITY HAS BEEN ESTIMATED BASED ON A DOUBLE YELLOW CENTERLINE STRIPE FOR THE ENTIRE PROJECT.
THE PROJECT MUST BE MARKED FOR PASSING/NO PASSING ZONES PRIOR TO THE PLACEMENT OF ANY FINAL STRIPING.
CONTACT THE MAINTENANCE DIVISION AFTER THE FINAL LIFT OF SURFACE COURSE HAS BEEN PLACED TO SCHEDULE THE ZONING OF THE PROJECT.

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	40	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

REMOVAL AND DISPOSAL OF ITEMS

STATION	STATION	LOCATION	CURB	RETAINING WALLS	CONCRETE DRIVEWAYS	WALKS	SIGN FOUNDATIONS	SIGNS	PLANTERS
			LIN. FT.	LIN. FT.	SQ. YD.	SQ. YD.	EACH	EACH	EACH
111+37	111+77	HWY. 190 NORTH LT.			129				
124+50	124+63	HWY. 190 NORTH RT.			30				
201+11	301+32	HWY. 190 EAST RT.			42				
201+35	201+80	HWY. 190 EAST RT.		45					
203+29	203+45	HWY. 190 EAST RT.			42				
209+98	210+26	HWY. 190 EAST RT.			73				
212+56	212+96	HWY. 190 EAST RT.			24				
216+75	216+95	HWY. 190 EAST RT.			52				
219+65	219+91	HWY. 190 EAST LT.			22				
221+15	221+33	HWY. 190 EAST LT.			41				
221+45	221+49	HWY. 190 EAST LT.				5			
226+85	227+02	HWY. 190 EAST RT.			40				
226+93	227+08	HWY. 190 EAST LT.			41				
232+30	232+62	HWY. 190 EAST LT.			96				
233+64	233+95	HWY. 190 EAST LT.			54				
234+33	234+36	HWY. 190 EAST RT.				4			
234+89	235+08	HWY. 190 EAST RT.			46				
235+39	235+49	HWY. 190 EAST RT.			29				
235+65	235+98	HWY. 190 EAST LT.			56				
237+14	237+42	HWY. 190 EAST RT.			49				
240+32	240+38	HWY. 190 EAST LT.					1	1	1
256+56	256+76	HWY. 190 EAST RT.			42				
258+10	258+47	HWY. 190 EAST LT.			47				
259+03	259+06	HWY. 190 EAST LT.					1	1	
263+13	263+18	HWY. 190 EAST LT.						1	1
264+31	264+50	HWY. 190 EAST LT.			52				
264+82	264+86	HWY. 190 EAST LT.				3			
266+34	266+54	HWY. 190 EAST LT.				2			
266+56	266+65	HWY. 190 EAST LT.			12				
268+70	268+80	HWY. 190 EAST RT.			14				
269+37	269+47	HWY. 190 EAST RT.			13				
269+64	269+74	HWY. 190 EAST RT.			6				
274+36	274+40	HWY. 190 EAST LT.				2			
275+91	275+92	HWY. 190 EAST LT.	15		65				
276+18	276+20	HWY. 190 EAST LT.	12						
TOTALS:			**27**	**45**	**1117**	**16**	**2**	**3**	**2**

NOTE: THE QUANTITY SHOWN ABOVE FOR THE REMOVAL AND DISPOSAL OF GUARDRAIL SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL GUARDRAIL TERMINALS AND TERMINAL ANCHOR POSTS.

REMOVAL AND DISPOSAL OF FENCE

STATION	STATION	LOCATION	FENCE	GATES
			LIN. FT.	EACH
117+68	121+08	HWY. 190 NORTH RT.	372	
124+36	125+96	HWY. 190 NORTH LT.	179	
127+63	128+69	HWY. 190 NORTH RT.	120	
200+25	201+11	HWY. 190 EAST RT.	105	
201+32	201+83	HWY. 190 EAST RT.	75	
211+51	212+29	HWY. 190 EAST RT.	77	
219+63	219+74	HWY. 190 EAST LT.	20	
219+74	219+94	HWY. 190 EAST LT.		1
219+94	220+25	HWY. 190 EAST LT.	40	
223+78	224+13	HWY. 190 EAST LT.	47	
224+13	224+29	HWY. 190 EAST LT.		1
224+29	224+70	HWY. 190 EAST LT.	53	
226+44	226+86	HWY. 190 EAST RT.	63	
226+85	226+99	HWY. 190 EAST RT.		1
226+99	227+73	HWY. 190 EAST RT.	87	
229+86	230+22	HWY. 190 EAST LT.	56	
230+39	232+01	HWY. 190 EAST LT.	231	
232+21	232+21	HWY. 190 EAST LT.	13	
234+03	234+52	HWY. 190 EAST RT.	78	
236+56	237+24	HWY. 190 EAST RT.	80	
237+50	238+94	HWY. 190 EAST RT.	144	
242+14	242+30	HWY. 190 EAST LT.	21	
242+30	242+70	HWY. 190 EAST LT.		1
242+70	242+84	HWY. 190 EAST LT.	18	
247+88	250+97	HWY. 190 EAST RT.	333	
256+73	257+25	HWY. 190 EAST RT.	65	
257+25	257+38	HWY. 190 EAST RT.		1
257+38	257+50	HWY. 190 EAST RT.	25	
257+93	258+68	HWY. 190 EAST RT.	100	
258+60	258+84	HWY. 190 EAST LT.		1
259+19	258+42	HWY. 190 EAST LT.		1
261+04	262+37	HWY. 190 EAST RT.	135	
262+76	263+15	HWY. 190 EAST RT.	44	
273+77	274+67	HWY. 190 EAST LT.	98	
275+23	275+91	HWY. 190 EAST LT.	72	
275+91	276+19	HWY. 190 EAST LT.		1
276+19	276+50	HWY. 190 EAST LT.	31	
TOTALS:			**2782**	**8**

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	
ENTIRE	PROJECT	STAGE 1-MAIN LANES	2275	7915
ENTIRE	PROJECT	STAGE 2-MAIN LANES	2183	7322
ENTIRE	PROJECT	APPROACHES		1475
TOTALS:			**4458**	**16712**

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

SOIL STABILIZATION

STATION	STATION	LOCATION / DESCRIPTION	SOIL STABILIZATION
			TON
ENTIRE	PROJECT	TO BE USED IF AND WHERE	500
		DIRECTED BY THE ENGINEER	
TOTAL:			**500**

QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

CLEARING AND GRUBBING

STATION	STATION	LOCATION	CLEARING	GRUBBING
			STATION	
100+00	130+00	HWY. 190 NORTH	30	30
200+00	276+22	HWY. 190 EAST	77	77
TOTALS:			**107**	**107**

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	41	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

REMOVAL AND DISPOSAL OF CULVERTS AND DROP INLETS (BOX 1 OF 2)

STATION	DESCRIPTION	PIPE CULVERTS	DROP INLETS
		EACH	EACH
105+55	HWY. 190 NORTH RT.	1	
106+05	HWY. 190 NORTH LT.	1	
109+39	HWY. 190 NORTH LT.	1	
110+70	HWY. 190 NORTH LT.	1	
111+48	HWY. 190 NORTH RT.	1	
111+58	HWY. 190 NORTH LT.	1	
124+57	HWY. 190 NORTH RT.	1	
126+22	HWY. 190 NORTH LT.	1	
128+85	HWY. 190 NORTH RT.		1
129+29	HWY. 190 NORTH RT.		1
129+70	HWY. 190 NORTH LT.	1	
201+22	HWY. 190 EAST RT.	1	
201+31	HWY. 190 EAST LT.	1	
201+98	HWY. 190 EAST RT.	1	
202+52	HWY. 190 EAST LT.	1	
203+33	HWY. 190 EAST RT.	1	
203+54	HWY. 190 EAST LT.	1	
204+44	HWY. 190 EAST LT.	1	
205+29	HWY. 190 EAST LT.	1	
206+56	HWY. 190 EAST LT.	1	
208+80	HWY. 190 EAST LT.	1	
209+57	HWY. 190 EAST RT.	1	
209+73	HWY. 190 EAST LT.	1	
210+12	HWY. 190 EAST RT.	1	
210+48	HWY. 190 EAST LT.	1	
211+34	HWY. 190 EAST RT.	1	
211+67	HWY. 190 EAST LT.	1	
212+44	HWY. 190 EAST LT.	1	
212+46	HWY. 190 EAST RT.	1	
213+30	HWY. 190 EAST LT.	1	
214+59	HWY. 190 EAST LT.	1	
214+87	HWY. 190 EAST RT.	1	
215+67	HWY. 190 EAST RT.	1	
216+85	HWY. 190 EAST RT.	1	
217+69	HWY. 190 EAST LT.	1	
218+55	HWY. 190 EAST LT.	1	
219+40	HWY. 190 EAST LT.	1	
219+88	HWY. 190 EAST LT.	1	
220+59	HWY. 190 EAST LT.	1	
220+75	HWY. 190 EAST RT.	1	
221+26	HWY. 190 EAST LT.	1	
222+09	HWY. 190 EAST CROSS DRAIN	1	
222+79	HWY. 190 EAST LT.	1	
222+79	HWY. 190 EAST RT.	1	
224+21	HWY. 190 EAST LT.	1	
225+60	HWY. 190 EAST LT.	1	
226+47	HWY. 190 EAST LT.	1	
226+92	HWY. 190 EAST RT.	1	
227+02	HWY. 190 EAST LT.	1	
227+62	HWY. 190 EAST LT.	1	
228+14	HWY. 190 EAST RT.	1	
228+66	HWY. 190 EAST RT.	1	
229+36	HWY. 190 EAST RT.	1	
229+79	HWY. 190 EAST LT.	1	
230+19	HWY. 190 EAST RT.	1	
230+31	HWY. 190 EAST LT.	1	
231+18	HWY. 190 EAST RT.	1	
232+27	HWY. 190 EAST RT.	1	
232+45	HWY. 190 EAST LT.	1	
233+83	HWY. 190 EAST LT.	1	
233+83	HWY. 190 EAST RT.	1	
234+45	HWY. 190 EAST LT.	1	
234+96	HWY. 190 EAST LT.	1	
234+98	HWY. 190 EAST RT.	1	
235+44	HWY. 190 EAST RT.	1	
235+78	HWY. 190 EAST LT.	1	
236+55	HWY. 190 EAST LT.	1	
237+33	HWY. 190 EAST RT.	1	
238+17	HWY. 190 EAST RT.	1	
239+33	HWY. 190 EAST LT.	1	
239+56	HWY. 190 EAST RT.	1	
SUBTOTALS (BOX 1 OF 2):		**69**	**2**

NOTE: QUANTITIES SHOWN ABOVE SHALL INCLUDE REMOVAL & DISPOSAL OF ALL HEADWALLS AND FLARED END SECTIONS IF APPLICABLE.

REMOVAL AND DISPOSAL OF CULVERTS AND DROP INLETS (BOX 2 OF 2)

STATION	DESCRIPTION	PIPE CULVERTS	DROP INLETS
		EACH	EACH
241+05	HWY. 190 EAST LT.	1	
241+34	HWY. 190 EAST RT.	1	
242+43	HWY. 190 EAST LT.	1	
243+22	HWY. 190 EAST LT.	1	
246+57	HWY. 190 EAST RT.	1	
247+65	HWY. 190 EAST RT.	1	
251+36	HWY. 190 EAST RT.	1	
252+22	HWY. 190 EAST LT.	1	
252+61	HWY. 190 EAST RT.	1	
254+47	HWY. 190 EAST LT.	1	
254+50	HWY. 190 EAST RT.	1	
255+30	HWY. 190 EAST LT.	1	
255+73	HWY. 190 EAST RT.	1	
256+66	HWY. 190 EAST RT.	1	
257+31	HWY. 190 EAST RT.	1	
257+35	HWY. 190 EAST LT.	1	
257+85	HWY. 190 EAST RT.	1	
258+14	HWY. 190 EAST LT.	1	
258+28	HWY. 190 EAST RT.	1	
258+60	HWY. 190 EAST REMOVE 5' LT.	1	
258+94	HWY. 190 EAST RT.	1	
260+26	HWY. 190 EAST RT.	1	
260+90	HWY. 190 EAST RT.	1	
261+53	HWY. 190 EAST RT.	1	
262+88	HWY. 190 EAST RT.	1	
263+35	HWY. 190 EAST RT.	1	
264+41	HWY. 190 EAST LT.	1	
264+54	HWY. 190 EAST RT.	1	
264+95	HWY. 190 EAST LT.	1	
264+98	HWY. 190 EAST RT.	1	
265+88	HWY. 190 EAST LT.	1	
266+17	HWY. 190 EAST RT.	1	
266+61	HWY. 190 EAST LT.	1	
266+97	HWY. 190 EAST RT.	1	
267+84	HWY. 190 EAST RT.	1	
268+75	HWY. 190 EAST RT.	1	
269+03	HWY. 190 EAST REMOVE 10' LT. AND 4' RT.	1	
269+36	HWY. 190 EAST RT.	1	
269+76	HWY. 190 EAST RT.	1	
269+89	HWY. 190 EAST LT.	1	
271+02	HWY. 190 EAST LT.	1	
271+87	HWY. 190 EAST RT.	1	
272+86	HWY. 190 EAST RT.	1	
273+05	HWY. 190 EAST LT.	1	
273+43	HWY. 190 EAST RT.	1	
273+69	HWY. 190 EAST LT.	1	
273+83	HWY. 190 EAST RT.	1	
274+87	HWY. 190 EAST RT.	1	
275+56	HWY. 190 EAST RT.		1
276+06	HWY. 190 EAST LT.	1	
SUBTOTALS (BOX 1 OF 2):		**69**	**2**
SUBTOTALS (BOX 2 OF 2):		**49**	**1**
TOTALS:		**118**	**3**

NOTE: QUANTITIES SHOWN ABOVE SHALL INCLUDE REMOVAL & DISPOSAL OF ALL HEADWALLS AND FLARED END SECTIONS IF APPLICABLE.

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	42	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

CONCRETE COMBINATION CURB AND GUTTER

STATION	STATION	LOCATION	TYPE A (1' 6")
			LIN. FT.
200+12	213+20	HWY. 190 EAST MAIN LANES - LT.	1308
200+10	213+20	HWY. 190 EAST MAIN LANES - RT.	1310
213+40	217+59	HWY. 190 EAST MAIN LANES - LT.	419
213+40	221+99	HWY. 190 EAST MAIN LANES - RT.	859
217+79	222+04	HWY. 190 EAST MAIN LANES - LT.	425
222+19	233+73	HWY. 190 EAST MAIN LANES - RT.	1154
222+24	227+54	HWY. 190 EAST MAIN LANES - LT.	530
227+70	236+45	HWY. 190 EAST MAIN LANES - LT.	875
233+93	241+24	HWY. 190 EAST MAIN LANES - RT.	731
236+65	240+97	HWY. 190 EAST MAIN LANES - LT.	432
241+13	254+37	HWY. 190 EAST MAIN LANES - LT.	1324
241+44	254+40	HWY. 190 EAST MAIN LANES - RT.	1296
254+57	259+74	HWY. 190 EAST MAIN LANES - LT.	517
254+60	258+83	HWY. 190 EAST MAIN LANES - RT.	423
259+03	267+74	HWY. 190 EAST MAIN LANES - RT.	871
259+94	262+81	HWY. 190 EAST MAIN LANES - LT.	287
263+01	265+78	HWY. 190 EAST MAIN LANES - LT.	277
265+98	268+75	HWY. 190 EAST MAIN LANES - LT.	277
267+94	271+79	HWY. 190 EAST MAIN LANES - RT.	385
268+95	271+77	HWY. 190 EAST MAIN LANES - LT.	282
271+93	274+77	HWY. 190 EAST MAIN LANES - LT.	284
271+95	274+77	HWY. 190 EAST MAIN LANES - RT.	282
274+97	276+32	HWY. 190 EAST MAIN LANES - LT.	135
274+97	276+22	HWY. 190 EAST MAIN LANES - RT.	125
TOTAL:			14808

FENCING

STATION	STATION	LOCATION	WIRE FENCE (TYPE C)	* 4' CHAIN LINK FENCE	* 5' CHAIN LINK FENCE	* 16'-0" GATES
			LIN. FT.			EACH
108+46	109+09	HWY. 190 NORTH LT.	65			
117+68	121+08	HWY. 190 NORTH RT.	330			
124+36	125+96	HWY. 190 NORTH LT.	160			
127+63	128+54	HWY. 190 NORTH RT.		91		
200+25	201+11	HWY. 190 EAST RT.		98		
201+32	201+83	HWY. 190 EAST RT.		51		
211+51	212+29	HWY. 190 EAST RT.		80		
223+78	224+70	HWY. 190 EAST LT.		74		1
226+44	227+73	HWY. 190 EAST RT.		112		1
229+86	230+22	HWY. 190 EAST LT.		35		
230+39	232+01	HWY. 190 EAST LT.		161		
234+03	234+52	HWY. 190 EAST RT.		46		
236+56	237+24	HWY. 190 EAST RT.		69		
237+50	238+08	HWY. 190 EAST RT.		58		
238+26	238+94	HWY. 190 EAST RT.		68		
242+14	242+85	HWY. 190 EAST LT.		70		1
256+73	257+50	HWY. 190 EAST RT.		61		1
257+93	258+20	HWY. 190 EAST RT.		27		
258+37	258+68	HWY. 190 EAST RT.		45		
261+04	261+44	HWY. 190 EAST RT.		38		
261+61	262+37	HWY. 190 EAST RT.		75		
262+97	263+15	HWY. 190 EAST RT.		19		
273+78	274+67	HWY. 190 EAST RT.		88		
275+23	275+91	HWY. 190 EAST LT.			67	
276+19	276+50	HWY. 190 EAST LT.			31	
TOTALS:			555	1366	98	4

* DENOTES ALTERNATE BID ITEM.

4" PIPE UNDERDRAIN

STATION	STATION	LOCATIONS	4" PIPE UNDERDRAINS	UNDERDRAIN OUTLET PROTECTORS
			LIN. FT.	EACH
* ENTIRE PROJECT TO BE USED IF AND			6000	24
WHERE DIRECTED BY THE ENGINEER				
TOTALS:			6000	24

* NOTE: QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

UNDERDRAINS SHALL BE STUBBED INTO THE PROPOSED DROP INLET IF AND WHERE DIRECTED BY THE ENGINEER. PAYMENT FOR THIS TO BE INCLUDED IN THE UNIT PRICE BID FOR 4" PIPE UNDERDRAIN.

CONCRETE WALKS (TYPE SPECIAL)

STATION	STATION	LOCATION	CONCRETE WALKS (TYPE SPECIAL)	HAND RAILING	ARCHITECTURAL FINISH	TEXTURED COATING FINISH
			SQ. YD.	LIN. FT.	SQ. FT.	SQ. YD.
100+34	101+96	HWY. 190 NORTH RT.	144	162	259	17
TOTALS:			144	162	259	17

PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

STATION	LOCATION	WIDTH	LENGTH	TON
		FEET		
108+30	HWY. 190 NORTH	15.67	22	21
128+85	HWY. 190 NORTH	8.50	33	17
200+88	HWY. 190 EAST	8.50	20	10
213+14	HWY. 190 EAST	8.50	22	11
221+94	HWY. 190 EAST	9.08	22	12
241+56	HWY. 190 EAST	9.08	20	11
253+82	HWY. 190 EAST	8.50	20	10
258+49	HWY. 190 EAST	8.50	23	12
269+11	HWY. 190 EAST	8.50	21	11
271+45	HWY. 190 EAST	9.08	21	12
275+67	HWY. 190 EAST	9.08	23	13
TOTAL:				140

AVG. DEPTH = 10"

COLD MILLING ASPHALT PAVEMENT

STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FEET	SQ. YD.
129+93.51	130+93.51	MAIN LANES	22.00	244.44
276+22.00	277+22.00	MAIN LANES	24.00	266.67
TOTAL:				511.11

COORDINATE COLD MILLING STOCKPILE LOCATIONS WITH DISTRICT ENGINEER.
STOCKPILE LOCATIONS SHALL BE NO FARTHER THAN FIVE MILES FROM EACH SITE.

MAILBOXES

LOCATION	MAILBOXES	MAILBOX SUPPORTS (SINGLE)
	EACH	
ENTIRE PROJECT	45	45
TOTALS:	45	45

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	43	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

CONCRETE WALKS (BOX 1 OF 2)

STATION	STATION	LOCATION	LENGTH	CONCRETE WALKS
			LIN. FT.	SQ.YD.
200+56	201+09	HWY. 190 EAST LT.	53	29
200+57	201+00	HWY. 190 EAST RT.	43	24
201+44	201+76	HWY. 190 EAST RT.	32	18
201+53	202+30	HWY. 190 EAST LT.	77	43
202+20	202+78	HWY. 190 EAST RT.	58	32
202+74	203+32	HWY. 190 EAST LT.	58	32
203+22	209+35	HWY. 190 EAST RT.	613	341
203+76	204+22	HWY. 190 EAST LT.	46	26
204+66	205+07	HWY. 190 EAST LT.	41	23
205+51	206+34	HWY. 190 EAST LT.	83	46
206+78	209+51	HWY. 190 EAST LT.	273	152
209+79	209+86	HWY. 190 EAST RT.	7	4
209+95	210+26	HWY. 190 EAST LT.	31	17
210+38	211+12	HWY. 190 EAST RT.	74	41
210+70	211+45	HWY. 190 EAST LT.	75	42
211+56	212+24	HWY. 190 EAST RT.	68	38
211+89	212+22	HWY. 190 EAST LT.	33	18
212+66	212+96	HWY. 190 EAST LT.	30	17
212+68	212+97	HWY. 190 EAST RT.	29	16
213+63	214+37	HWY. 190 EAST LT.	74	41
213+63	213+83	HWY. 190 EAST RT.	20	11
214+35	214+65	HWY. 190 EAST RT.	30	17
214+81	217+36	HWY. 190 EAST LT.	255	142
215+09	215+45	HWY. 190 EAST RT.	36	20
215+89	216+61	HWY. 190 EAST RT.	72	40
217+09	220+53	HWY. 190 EAST RT.	344	191
218+02	218+33	HWY. 190 EAST LT.	31	17
218+77	219+17	HWY. 190 EAST LT.	40	22
219+61	219+67	HWY. 190 EAST LT.	6	3
220+11	220+37	HWY. 190 EAST LT.	26	14
220+81	221+03	HWY. 190 EAST LT.	22	12
220+97	221+76	HWY. 190 EAST RT.	79	44
221+47	221+81	HWY. 190 EAST LT.	34	19
222+42	222+57	HWY. 190 EAST RT.	15	8
222+47	222+57	HWY. 190 EAST LT.	10	6
223+01	223+99	HWY. 190 EAST LT.	98	54
223+01	223+99	HWY. 190 EAST RT.	98	54
224+43	225+37	HWY. 190 EAST LT.	94	52
224+50	226+70	HWY. 190 EAST RT.	220	122
225+82	226+25	HWY. 190 EAST LT.	43	24
226+68	226+80	HWY. 190 EAST LT.	12	7
227+15	227+91	HWY. 190 EAST RT.	76	42
227+23	227+32	HWY. 190 EAST LT.	9	5
227+92	229+57	HWY. 190 EAST LT.	165	92
228+36	228+44	HWY. 190 EAST RT.	8	4
228+88	229+14	HWY. 190 EAST RT.	26	14
229+58	229+97	HWY. 190 EAST RT.	39	22
230+01	230+09	HWY. 190 EAST LT.	8	4
230+41	230+96	HWY. 190 EAST RT.	55	31
230+53	232+16	HWY. 190 EAST LT.	163	91
231+40	231+98	HWY. 190 EAST RT.	58	32
232+56	233+50	HWY. 190 EAST RT.	94	52
232+74	233+52	HWY. 190 EAST LT.	78	43
233+96	234+23	HWY. 190 EAST LT.	27	15
234+16	234+76	HWY. 190 EAST RT.	60	33
234+67	234+73	HWY. 190 EAST LT.	6	3
235+17	235+56	HWY. 190 EAST LT.	39	22
235+20	235+22	HWY. 190 EAST RT.	2	1
236+00	236+22	HWY. 190 EAST LT.	22	12
235+66	237+03	HWY. 190 EAST RT.	137	76
236+88	239+11	HWY. 190 EAST LT.	223	124
237+47	237+95	HWY. 190 EAST RT.	48	27
238+39	239+34	HWY. 190 EAST RT.	95	53
239+55	240+13	HWY. 190 EAST LT.	58	32
239+78	240+48	HWY. 190 EAST RT.	70	39
SUBTOTALS (BOX 1 OF 2):				2748

CONCRETE WALKS (BOX 2 OF 2)

STATION	STATION	LOCATION	LENGTH	CONCRETE WALKS
			LIN. FT.	SQ.YD.
240+65	240+74	HWY. 190 EAST LT.	9	5
240+92	241+01	HWY. 190 EAST RT.	9	5
241+36	242+09	HWY. 190 EAST LT.	73	41
241+67	242+36	HWY. 190 EAST RT.	69	38
242+77	246+16	HWY. 190 EAST LT.	339	188
242+80	243+22	HWY. 190 EAST RT.	42	23
243+66	246+31	HWY. 190 EAST RT.	265	147
246+84	252+00	HWY. 190 EAST LT.	516	287
246+84	247+43	HWY. 190 EAST RT.	59	33
247+87	251+14	HWY. 190 EAST RT.	327	182
251+58	252+37	HWY. 190 EAST RT.	79	44
252+44	253+28	HWY. 190 EAST LT.	84	47
252+85	254+17	HWY. 190 EAST RT.	132	73
253+72	254+14	HWY. 190 EAST LT.	42	23
254+80	255+08	HWY. 190 EAST LT.	28	16
254+83	255+51	HWY. 190 EAST RT.	68	38
255+52	257+13	HWY. 190 EAST LT.	161	89
255+95	256+44	HWY. 190 EAST RT.	49	27
256+88	257+09	HWY. 190 EAST RT.	21	12
257+53	257+63	HWY. 190 EAST RT.	10	6
257+57	257+88	HWY. 190 EAST LT.	31	17
258+40	258+45	HWY. 190 EAST LT.	5	3
258+51	258+61	HWY. 190 EAST RT.	10	6
258+89	258+94	HWY. 190 EAST LT.	5	3
259+26	260+04	HWY. 190 EAST RT.	78	43
259+42	259+51	HWY. 190 EAST LT.	9	5
260+17	262+58	HWY. 190 EAST LT.	241	134
260+48	260+68	HWY. 190 EAST RT.	20	11
261+12	261+61	HWY. 190 EAST RT.	49	27
261+75	262+67	HWY. 190 EAST RT.	92	51
263+24	263+32	HWY. 190 EAST LT.	8	4
263+59	264+32	HWY. 190 EAST RT.	73	41
263+84	264+19	HWY. 190 EAST LT.	35	19
264+63	264+73	HWY. 190 EAST LT.	10	6
265+17	265+55	HWY. 190 EAST LT.	38	21
265+20	265+95	HWY. 190 EAST RT.	75	42
266+21	266+52	HWY. 190 EAST LT.	31	17
266+39	266+75	HWY. 190 EAST RT.	36	20
266+96	268+52	HWY. 190 EAST LT.	156	87
267+19	267+51	HWY. 190 EAST RT.	32	18
268+17	268+53	HWY. 190 EAST RT.	36	20
268+97	269+15	HWY. 190 EAST RT.	18	10
269+18	269+65	HWY. 190 EAST LT.	47	26
269+96	271+56	HWY. 190 EAST RT.	160	89
270+13	270+86	HWY. 190 EAST LT.	73	41
271+30	271+54	HWY. 190 EAST LT.	24	13
272+16	272+83	HWY. 190 EAST LT.	67	37
272+17	272+64	HWY. 190 EAST RT.	47	26
273+08	273+23	HWY. 190 EAST RT.	15	8
273+27	273+47	HWY. 190 EAST LT.	20	11
273+91	274+54	HWY. 190 EAST LT.	63	35
274+04	274+54	HWY. 190 EAST RT.	50	28
275+20	275+80	HWY. 190 EAST LT.	60	33
275+20	275+70	HWY. 190 EAST RT.	50	28
SUBTOTALS (BOX 1 OF 2):				2748
SUBTOTALS (BOX 2 OF 2):				2304
TOTAL:				5052

WHEELCHAIR RAMPS

STATION	LOCATION	TYPE 2	TYPE 3
		SQ.YD.	
200+44	HWY. 190 EAST RT		5.4
200+59	HWY. 190 EAST LT	19.6	
200+59	HWY. 190 EAST RT		5.4
212+99	HWY. 190 EAST LT		5.4
213+00	HWY. 190 EAST RT		5.4
213+60	HWY. 190 EAST LT		5.4
213+60	HWY. 190 EAST RT		5.4
217+39	HWY. 190 EAST LT		5.4
217+99	HWY. 190 EAST LT		5.4
221+79	HWY. 190 EAST RT		5.4
221+84	HWY. 190 EAST LT		5.4
222+39	HWY. 190 EAST RT		5.4
222+44	HWY. 190 EAST LT		5.4
227+35	HWY. 190 EAST LT		5.4
227+89	HWY. 190 EAST LT		5.4
233+53	HWY. 190 EAST RT		5.4
234+13	HWY. 190 EAST RT		5.4
236+25	HWY. 190 EAST LT		5.4
236+85	HWY. 190 EAST LT		5.4
240+77	HWY. 190 EAST LT		5.4
241+04	HWY. 190 EAST RT		5.4
241+33	HWY. 190 EAST LT		5.4
241+64	HWY. 190 EAST RT		5.4
254+16	HWY. 190 EAST LT		5.4
254+20	HWY. 190 EAST RT		5.4
254+77	HWY. 190 EAST LT		5.4
254+80	HWY. 190 EAST RT		5.4
258+63	HWY. 190 EAST RT		5.4
259+23	HWY. 190 EAST RT		5.4
259+54	HWY. 190 EAST LT		5.4
260+14	HWY. 190 EAST LT		5.4
262+61	HWY. 190 EAST LT		5.4
263+21	HWY. 190 EAST LT		5.4
265+58	HWY. 190 EAST LT		5.4
266+18	HWY. 190 EAST LT		5.4
267+54	HWY. 190 EAST RT		5.4
268+14	HWY. 190 EAST RT		5.4
268+55	HWY. 190 EAST LT		5.4
269+15	HWY. 190 EAST LT		5.4
271+57	HWY. 190 EAST LT		5.4
271+59	HWY. 190 EAST RT		5.4
272+13	HWY. 190 EAST LT		5.4
272+15	HWY. 190 EAST RT		5.4
274+57	HWY. 190 EAST LT		5.4
274+57	HWY. 190 EAST RT		5.4
275+17	HWY. 190 EAST LT		5.4
TOTALS:		19.6	243.0

RB43088 8/7/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	44	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

SOIL LOG

STATION	LATITUDE			LONGITUDE			LOCATION	DEPTH	LIQUID LIMIT	PLASTICITY INDEX	AASHTO CLASSIFICATION	COLOR
	DEG	MIN	SEC	DEG	MIN	SEC		FEET				
101+00	34	12	58.40	92	4	9.70	05RT	0-5	21	6	A-4(2)	BROWN
101+00	34	12	58.40	92	4	9.60	12RT	0-5	21	6	A-4(2)	BROWN
101+00	34	12	58.40	93	4	9.60	12RT	0-5	ND	NP	A-4(0)	BROWN
109+00	34	13	6.30	92	4	9.80	05LT	0-5	ND	NP	A-4(0)	BR/GR
117+00	34	13	14.20	92	4	9.40	05RT	0-5	28	14	A-6(9)	BROWN
117+00	34	13	14.20	92	4	9.30	12RT	0-5	17	2	A-4(0)	BROWN
124+00	34	13	21.30	92	4	9.30	05LT	0-5	20	6	A-4(1)	BROWN
124+00	34	13	21.30	92	4	9.40	12LT	0-5	ND	NP	A-4(0)	BROWN
202+00	34	13	25.60	92	4	6.60	05RT	0-5	ND	NP	A-4(0)	BROWN
202+00	34	13	25.50	92	4	6.60	12RT	0-5	21	6	A-4(2)	BROWN
210+00	34	13	25.70	92	3	57.10	05LT	0-5	24	8	A-4(5)	BROWN
218+00	34	13	25.50	92	3	47.80	05RT	0-5	25	9	A-4(5)	BROWN
218+00	34	13	25.50	92	3	47.80	12RT	0-5	26	11	A-6(4)	BROWN
242+00	34	13	25.80	92	3	19.10	05LT	0-5	22	6	A-4(3)	BROWN
250+00	34	13	25.60	92	3	9.60	05RT	0-5	20	5	A-4(1)	BROWN
250+00	34	13	25.50	92	3	9.60	12RT	0-5	21	4	A-4(0)	BROWN
258+00	34	13	25.70	92	3	0.00	05LT	0-5	19	3	A-4(0)	GRAY
274+00	34	13	25.60	92	2	41.00	05LT	0-5	ND	NP	A-4(0)	GRAY

SOIL CHARACTERISTICS TABULATED ABOVE ARE REPRESENTATIVE AT THE LOCATION OF THE SAMPLE, AND FROM SURFACE INDICATIONS ARE TYPICAL FOR THE LIMITS SHOWN. THESE DATA ARE SHOWN FOR INFORMATION ONLY. THE STATE WILL NOT BE RESPONSIBLE FOR VARIATIONS IN THE SOIL CHARACTERISTICS AND/OR EXTENT OF SAME DIFFERING FROM THE ABOVE TABULATIONS.
NP - NON-PLASTIC
ND - NOT DETERMINABLE

DUMPED RIPRAP AND FILTER BLANKET

STATION	LOCATION	DUMPED RIPRAP	FILTER BLANKET
		CU. YD.	SQ. YD.
	TO BE USED IF AND WHERE	108	215
	DIRECTED BY THE ENGINEER		
TOTALS:		**108**	**215**

*NOTE: QUANTITIES ESTIMATED.
SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS

NOTE: FILTER BLANKET SHALL BE GEOTEXTILE FABRIC (TYPE 5).

ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC

LOCATION	TON	TACK COAT
		GALLON
ENTIRE PROJECT - TO BE USED IF AND WHERE	50	100
DIRECTED BY THE ENGINEER		
TOTALS:	**50**	**100**

BASIS OF ESTIMATE:
ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC...25 TON/MILE
TACK COAT FOR MAINTENANCE OF TRAFFIC.....50 GAL./MILE

ACHM PATCHING OF EXISTING ROADWAY

DESCRIPTION	TON
ENTIRE PROJECT - TO BE USED IF AND WHERE	50
DIRECTED BY THE ENGINEER	
TOTAL:	**50**

NOTE: QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

CONCRETE DITCH PAVING

STATION	STATION	LOCATION	LENGTH	"W"	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
			LIN. FT.	FEET	SQ. YD.	SQ. YD.	M. GAL.
258+55.00	258+67.00	HWY. 190 EAST RT.	12.00	6.00	8.00	5.33	0.07
269+10.00	269+78.00	HWY. 190 EAST LT.	68.00	6.00	45.33	30.22	0.38
TOTALS:					**53.33**	**35.55**	**0.45**

BASIS OF ESTIMATE:
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING.

EROSION CONTROL MATTING

STATION	STATION	LOCATION	LENGTH	CLASS 3
			LIN. FT.	SQ. YD.
107+00.00	108+25.00	HWY. 190 NORTH LT.	125.00	111.11
108+35.00	110+00.00	HWY. 190 NORTH LT.	165.00	146.67
TOTAL:				**257.78**

NOTE: AVERAGE WIDTH = 8'-0"

SELECTED PIPE BEDDING

LOCATION	SELECTED PIPE BEDDING
	CU.YD.
ENTIRE PROJECT TO BE USED IF	
AND WHERE DIRECTED BY THE	340
ENGINEER	
TOTAL:	**340**

NOTE: QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL								
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS (E-5)	SILT FENCE (E-11)	DROP INLET FILTER SOCK (12") (E-13)	SEDIMENT BASIN (E-14)	OBLITERATION OF SEDIMENT BASIN	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	BAG	LIN. FT.	LIN. FT.	CU.YD.	CU.YD.	CU. YD.
ENTIRE	PROJECT	CLEARING AND GRUBBING						12.64	12.64	257.9	3058	3269				260
ENTIRE	PROJECT	STAGE 1	1.80	3.60	1.80	183.6	1.80	3.53	3.53	72.0	242	86	2185			14
ENTIRE	PROJECT	STAGE 2	1.70	3.40	1.70	173.4	1.70	3.68	3.68	75.1	242		1679			11
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			3.50	7.00	3.50	357.0	3.50	19.85	19.85	404.9	880	839	546	2960	2960	3031
TOTALS:			**7.00**	**14.00**	**7.00**	**714.0**	**7.00**	**39.70**	**39.70**	**809.9**	**4422**	**4194**	**4410**	**2960**	**2960**	**3316**

BASIS OF ESTIMATE:
LIME .....2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
FILTER SOCKS.....23 LIN. FT./ 4' DIA. INLET
NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

*QUANTITIES ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

R843088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	45	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

DRIVEWAYS & TURNOUTS (BOX 1 OF 2)

STATION	SIDE	LOCATION	WIDTH	**MODIFIED CURB		PORTLAND CEMENT CONCRETE DRIVEWAY	ACHM SURFACE COURSE (1/2") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7)	SIDE DRAINS				STANDARD DRAWINGS
										18"	24"	28"X20"	35"X24"	
			FEET	STATION	STATION	SQ. YD.	SQ. YD.	TON	TON	LIN. FT.				
102+38	RT	HWY. 190 NORTH	20				58.87	6.48	24.04					DR2
105+55	RT	HWY. 190 NORTH	20				72.60	7.99	29.65			28		DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
106+05	LT	HWY. 190 NORTH	16				49.54	5.45	20.23			28		DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
109+39	LT	HWY. 190 NORTH	40				125.54	13.81	51.26				52	DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
110+70	LT	HWY. 190 NORTH	40				105.54	11.61	43.10			50		DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
111+48	RT	HWY. 190 NORTH	16				60.65	6.67	24.77			28		DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
111+58	LT	HWY. 190 NORTH	40				100.20	11.02	40.92			50		DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
121+25	RT	HWY. 190 NORTH	24				83.28	9.16	34.01			34		DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
124+57	RT	HWY. 190 NORTH	16				58.61	6.45	23.93		30			DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
126+16	RT	HWY. 190 NORTH	20				67.76	7.45	27.67	34				DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
126+22	LT	HWY. 190 NORTH	20				70.43	7.75	28.76		32			DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
129+70	LT	HWY. 190 NORTH	16				46.43	5.11	18.96	28				DR-2, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
201+22	RT	HWY. 190 EAST	16	201+00	201+44	58.13								DR-1
201+31	LT	HWY. 190 EAST	16	201+09	201+53		58.67	6.45	23.96					DR-1
201+98	RT	HWY. 190 EAST	16	201+76	202+20		66.67	7.33	27.22					DR-1
202+52	LT	HWY. 190 EAST	16	202+30	202+74		70.22	7.72	28.67					DR-1
203+00	RT	HWY. 190 EAST	16	202+78	203+22		75.55	8.31	30.85					DR-1
203+54	LT	HWY. 190 EAST	16	203+32	203+76		79.11	8.70	32.30					DR-1
204+44	LT	HWY. 190 EAST	16	204+22	204+66		79.11	8.70	32.30					DR-1
205+29	LT	HWY. 190 EAST	16	205+07	205+51		93.33	10.27	38.11					DR-1
206+56	LT	HWY. 190 EAST	16	206+34	206+78		79.11	8.70	32.30					DR-1
209+57	RT	HWY. 190 EAST	16	209+35	209+79		91.55	10.07	37.38					DR-1
209+73	LT	HWY. 190 EAST	16	209+51	209+95		86.22	9.48	35.21					DR-1
210+12	RT	HWY. 190 EAST	24	209+86	210+38	81.95								DR-1
210+48	LT	HWY. 190 EAST	16	210+26	210+70		75.55	8.31	30.85					DR-1
211+34	RT	HWY. 190 EAST	16	211+12	211+56		75.55	8.31	30.85					DR-1
211+67	LT	HWY. 190 EAST	16	211+45	211+89		77.33	8.51	31.58					DR-1
212+44	LT	HWY. 190 EAST	16	212+22	212+66		75.55	8.31	30.85					DR-1
212+46	RT	HWY. 190 EAST	16	212+24	212+68		75.55	8.31	30.85					DR-1
213+30	LT	HWY. 190 EAST	20	213+06	213+54		109.34	12.03	44.65					DR-1, DR-2
213+30	RT	HWY. 190 EAST	20	213+06	213+54		131.56	14.47	53.72					DR-1, DR-2
214+09	RT	HWY. 190 EAST	24	213+83	214+35		100.89	11.10	41.20					DR-1
214+59	LT	HWY. 190 EAST	16	214+37	214+81		77.33	8.51	31.58					DR-1
214+87	RT	HWY. 190 EAST	16	214+65	215+09		79.11	8.70	32.30					DR-1
215+67	RT	HWY. 190 EAST	16	215+45	215+89		77.33	8.51	31.58					DR-1
216+85	RT	HWY. 190 EAST	20	216+61	217+09	88.23								DR-1
217+69	LT	HWY. 190 EAST	20	217+45	217+93		69.34	7.63	28.31					DR-1, DR-2
218+55	LT	HWY. 190 EAST	16	218+33	218+77		72.00	7.92	29.40					DR-1
219+40	LT	HWY. 190 EAST	16	219+18	219+62		80.89	8.90	33.03					DR-1
219+88	LT	HWY. 190 EAST	16	219+66	220+10		84.44	9.29	34.48					DR-1
220+59	LT	HWY. 190 EAST	16	220+37	220+81		93.33	10.27	38.11					DR-1
220+78	RT	HWY. 190 EAST	16	220+56	221+00		91.55	10.07	37.38					DR-1
221+26	LT	HWY. 190 EAST	16	221+04	221+48	72.00								DR-1
222+09	RT	HWY. 190 EAST	20	221+85	222+33		104.89	11.54	42.83					DR-1, DR-2
222+14	LT	HWY. 190 EAST	20	221+90	222+38		104.89	11.54	42.83					DR-1, DR-2
222+79	LT	HWY. 190 EAST	16	222+57	223+01		66.67	7.33	27.22					DR-1
222+79	RT	HWY. 190 EAST	16	222+57	223+01		75.55	8.31	30.85					DR-1
224+21	LT	HWY. 190 EAST	16	223+99	224+43		60.44	6.65	24.68					DR-1
224+25	RT.	HWY. 190 EAST	24	223+99	224+51		79.55	8.75	32.48					DR-1
225+60	LT	HWY. 190 EAST	16	225+38	225+82		56.89	6.26	23.23					DR-1
226+47	LT	HWY. 190 EAST	16	226+25	226+69		58.67	6.45	23.96					DR-1
226+92	RT	HWY. 190 EAST	16	226+70	227+14	70.22								DR-1
227+02	LT	HWY. 190 EAST	16	226+80	227+24	68.44								DR-1
227+62	LT	HWY. 190 EAST	16	227+40	227+84		39.11	4.30	15.97					DR-1, DR-2
228+14	RT	HWY. 190 EAST	16	227+92	228+36		73.78	8.12	30.13					DR-1
228+66	RT	HWY. 190 EAST	16	228+44	228+88		79.11	8.70	32.30					DR-1
229+36	RT	HWY. 190 EAST	16	229+14	229+58		82.67	9.09	33.76					DR-1
229+79	LT	HWY. 190 EAST	16	229+57	230+01		82.67	9.09	33.76					DR-1
230+19	RT	HWY. 190 EAST	16	229+97	230+41		70.22	7.72	28.67					DR-1
230+31	LT	HWY. 190 EAST	16	230+09	230+53		68.44	7.53	27.95					DR-1
231+18	RT	HWY. 190 EAST	16	230+96	231+40		82.67	9.09	33.76					DR-1
232+27	RT	HWY. 190 EAST	30	231+98	232+56		119.89	13.19	48.96					DR-1
232+45	LT	HWY. 190 EAST	30	232+16	232+74	109.89								DR-1
233+83	LT	HWY. 190 EAST	16	233+61	234+05	68.44								DR-1
233+83	RT	HWY. 190 EAST	20	233+59	234+07		47.11	5.18	19.24					DR-1, DR-2
234+45	LT	HWY. 190 EAST	16	234+23	234+67		84.44	9.29	34.48					DR-1
234+96	LT	HWY. 190 EAST	16	234+74	235+18		79.29	8.72	32.38					DR-1
234+98	RT	HWY. 190 EAST	16	234+76	235+20	73.78								DR-1
235+44	RT	HWY. 190 EAST	16	235+22	235+66	82.67								DR-1
SUBTOTALS (BOX 1 OF 2):						**773.75**	**4642.58**	**510.68**	**1895.76**	**62**	**62**	**218**	**52**	

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....94.2% MIN. AGGR.....5.8% ASPHALT BINDER

** FOR INFORMATION ONLY

NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.
NOTE: FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE SPECIFIED.

RB43088 8/7/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	46	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

DRIVEWAYS & TURNOUTS (BOX 2 OF 2)

STATION	SIDE	LOCATION	WIDTH	**MODIFIED CURB		PORTLAND CEMENT CONCRETE DRIVEWAY	ACHM SURFACE COURSE (1/2") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7)	SIDE DRAINS				STANDARD DRAWINGS
										18"	24"	28"X20"	35"X24"	
			FEET	STATION	STATION	SQ. YD.	SQ. YD.	TON	TON	LIN. FT.				
235+78	LT	HWY. 190 EAST	16	235+56	236+00	70.22								DR-1
236+55	LT	HWY. 190 EAST	20	236+31	236+79		42.67	4.69	17.42					DR-1, DR-2
237+25	RT	HWY. 190 EAST	16	237+03	237+47	72.89								DR-1
238+17	RT	HWY. 190 EAST	16	237+95	238+39		75.55	8.31	30.85					DR-1
239+33	LT	HWY. 190 EAST	16	239+11	239+55		68.44	7.53	27.95					DR-1
239+56	RT	HWY. 190 EAST	16	239+34	239+78		70.22	7.72	28.67					DR-1
240+39	LT	HWY. 190 EAST	24	240+13	240+65		100.89	11.10	41.20					DR-1
240+70	RT	HWY. 190 EAST	16	240+48	240+92		72.00	7.92	29.40					DR-1
241+05	LT	HWY. 190 EAST	16	240+83	241+27		49.78	5.48	20.33					DR-1, DR-2
241+34	RT	HWY. 190 EAST	20	241+10	241+58		111.56	12.27	45.55					DR-1, DR-2
242+43	LT	HWY. 190 EAST	40	242+09	242+77		160.44	17.65	65.51					DR-1
242+58	RT	HWY. 190 EAST	16	242+36	242+80		77.33	8.51	31.58					DR-1
243+44	RT	HWY. 190 EAST	16	243+22	243+66		70.22	7.72	28.67					DR-1
246+50	LT	HWY. 190 EAST	40	246+16	246+84		178.22	19.60	72.77					DR-1
246+57	RT	HWY. 190 EAST	24	246+31	246+83		90.22	9.92	36.84					DR-1
247+65	RT	HWY. 190 EAST	16	247+43	247+87		63.47	6.98	25.92					DR-1
251+09	LT	HWY. 190 EAST	16	250+87	251+31		70.22	7.72	28.67					DR-1
251+36	RT	HWY. 190 EAST	16	251+14	251+58		68.44	7.53	27.95					DR-1
252+22	LT	HWY. 190 EAST	16	252+00	252+44		68.44	7.53	27.95					DR-1
252+61	RT	HWY. 190 EAST	20	252+37	252+85		74.45	8.19	30.40					DR-1
253+50	LT	HWY. 190 EAST	16	253+28	253+72		68.44	7.53	27.95					DR-2
254+47	LT	HWY. 190 EAST	20	254+23	254+71		42.67	4.69	17.42					DR-1, DR-2
254+50	RT	HWY. 190 EAST	20	254+26	254+74		116.00	12.76	47.37					DR-1, DR-2
255+30	LT	HWY. 190 EAST	16	255+08	255+52		58.67	6.45	23.96					DR-1
255+73	RT	HWY. 190 EAST	16	255+51	255+95		64.89	7.14	26.50					DR-1
256+66	RT	HWY. 190 EAST	16	256+44	256+88		63.64	7.00	25.99					DR-1
257+31	RT	HWY. 190 EAST	16	257+09	257+53		80.89	8.90	33.03					DR-1
257+35	LT	HWY. 190 EAST	16	257+13	257+57		75.55	8.31	30.85					DR-1
257+85	RT	HWY. 190 EAST	16	257+63	258+07		62.22	6.84	25.41					DR-1
258+14	LT	HWY. 190 EAST	24	257+88	258+40	90.22								DR-1
258+28	RT	HWY. 190 EAST	16	258+06	258+50		79.11	8.70	32.30					DR-1
258+67	LT	HWY. 190 EAST	16	258+45	258+89		68.44	7.53	27.95					DR-1
258+94	RT	HWY. 190 EAST	20	258+70	259+18		58.23	6.41	23.78					DR-1, DR-2
259+18	LT	HWY. 190 EAST	20	258+94	259+42		67.11	7.38	27.40					DR-1
259+84	LT	HWY. 190 EAST	20	259+60	260+08		53.78	5.92	21.96					DR-1, DR-2
260+26	RT	HWY. 190 EAST	16	260+04	260+48		58.84	6.47	24.03					DR-1
260+90	RT	HWY. 190 EAST	16	260+68	261+12		57.95	6.37	23.66					DR-1
261+53	RT	HWY. 190 EAST	16	261+31	261+75		57.24	6.30	23.37					DR-1
262+88	RT	HWY. 190 EAST	16	262+66	263+10		55.29	6.08	22.58					DR-1
262+92	LT	HWY. 190 EAST	20	262+68	263+16		111.56	12.27	45.55					DR-1, DR-2
263+35	RT	HWY. 190 EAST	20	263+11	263+59		69.34	7.63	28.31					DR-1
263+59	LT	HWY. 190 EAST	24	263+33	263+85		70.75	7.78	28.89					DR-1
264+41	LT	HWY. 190 EAST	16	264+19	264+63	79.11								DR-1
264+54	RT	HWY. 190 EAST	16	264+32	264+76		60.80	6.69	24.83					DR-1
264+95	LT	HWY. 190 EAST	16	264+73	265+17		55.11	6.06	22.50					DR-1
264+98	RT	HWY. 190 EAST	16	264+76	265+20		60.98	6.71	24.90					DR-1
265+88	LT	HWY. 190 EAST	20	265+64	266+12		42.67	4.69	17.42					DR-1, DR-2
266+17	RT	HWY. 190 EAST	16	265+95	266+39		61.87	6.81	25.26					DR-1
266+74	LT	HWY. 190 EAST	16	266+52	266+96		61.33	6.75	25.04					DR-1
266+97	RT	HWY. 190 EAST	16	266+75	267+19		62.58	6.88	25.55					DR-1
267+84	RT	HWY. 190 EAST	20	267+60	268+08		58.23	6.41	23.78					DR-1, DR-2
268+75	RT	HWY. 190 EAST	16	268+53	268+97	59.73								DR-1
268+85	LT	HWY. 190 EAST	20	268+61	269+09		109.34	12.03	44.65					DR-1, DR-2
269+36	RT	HWY. 190 EAST	12	269+16	269+56	49.69								DR-1
269+76	RT	HWY. 190 EAST	12	269+56	269+96	48.89								DR-1
269+89	LT	HWY. 190 EAST	20	269+65	270+13		80.67	8.87	32.94					DR-1
271+08	LT	HWY. 190 EAST	16	270+86	271+30		68.44	7.53	27.95					DR-1
271+85	LT	HWY. 190 EAST	20	271+61	272+09		42.67	4.69	17.42					DR-1, DR-2
271+87	RT	HWY. 190 EAST	20	271+63	272+11		42.67	4.69	17.42					DR-1, DR-2
272+86	RT	HWY. 190 EAST	16	272+64	273+08		72.00	7.92	29.40					DR-1
273+05	LT	HWY. 190 EAST	16	272+83	273+27		55.11	6.06	22.50					DR-1
273+43	RT	HWY. 190 EAST	12	273+23	273+63		51.83	5.70	21.16					DR-1
273+69	LT	HWY. 190 EAST	16	273+47	273+91		55.64	6.12	22.72					DR-1
273+83	RT	HWY. 190 EAST	12	273+63	274+03		58.89	6.48	24.05					DR-1
274+87	LT	HWY. 190 EAST	20	274+63	275+11		42.67	4.69	17.42					DR-1, DR-2
274+87	RT	HWY. 190 EAST	20	274+63	275+11		42.67	4.69	17.42					DR-1, DR-2
275+96	RT	HWY. 190 EAST	24	275+70	276+22		87.55	9.63	35.75					DR-1
276+06	LT	HWY. 190 EAST	24	275+80	276+32	87.55								DR-1
* ENTIRE PROJECT TEMPORARY DRIVES									1370.00					
SUBTOTALS (BOX 1 OF 2):						**773.75**	**4642.58**	**510.68**	**1895.76**	**62**	**62**	**218**	**52**	
SUBTOTALS (BOX 2 OF 2):						**558.30**	**4226.89**	**464.93**	**3095.97**					
TOTALS:						**1332.05**	**8869.47**	**975.61**	**4991.73**	**62**	**62**	**218**	**52**	

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....94.2% MIN. AGGR.....5.8% ASPHALT BINDER

* QUANTITY ESTIMATED
SEE SECTION 104.03 OF THE STD. SPECS.
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

** FOR INFORMATION ONLY

NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.
NOTE: FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE SPECIFIED.

RB43088 8/7/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	47	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

STRUCTURES (BOX 1 OF 2)

STATION	DESCRIPTION	PIPE CULVERT ALTERNATES		PIPE CULVERT STORM DRAIN ALTERNATES 1, 2, 3, 4, AND 5				FLARED END SECTIONS FOR R.C. PIPE CULVERT AND STORM DRAIN ALTERNATES					DROP INLETS			YARD DRAINS	SOLID SODDING	WATER	STD. DWG. NOS.
		ALT. 1 (CLASS IV)	ALT. 2, 3, 4, 5, 6, AND 7 (WITH CLASS IV ALT. 1)										TYPE	EXT.					
		36"	36"	18"	24"	22"X14"	29"X18"	18"	24"	36"	22"X14"	29"X18"	MO	4'	8'	EACH	SQ.YD.	M.GAL.	
		LIN. FT.																	
108+30	INSTALL DBL. 36" X 46" PIPE CULVERT	88	88							4							56	0.71	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2
200+45	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET W/ F.E.S.					66					1		1				7	0.09	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
200+88	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					32							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
200+88	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					40							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
201+48	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					56							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
201+56	CONSTRUCT DROP INLET ON LT. W/ PIPE INTLET W/ F.E.S. AND W/ PIPE OUTLET			2		64		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
202+25	CONSTRUCT DROP INLET ON LT. W/ PIPE INTLET W/ F.E.S. AND W/ PIPE OUTLET			4		66		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
202+70	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		118		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
203+29	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET AND W/ PIPE OUTLET			4		100							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
203+70	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET AND W/ PIPE OUTLET			4		96							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
203+80	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					116							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
205+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					126							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
205+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					96							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
206+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					96							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
206+30	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET AND W/ PIPE OUTLET			4		48							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
206+82	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET AND W/ PIPE OUTLET			4		114							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
207+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					96							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
208+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					142							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
208+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					126							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
209+30	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET AND W/ PIPE OUTLET			4		48							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
209+45	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET AND W/ PIPE OUTLET			2		52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
209+82	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET AND W/ PIPE OUTLET			2		60							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
210+00	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET AND W/ PIPE OUTLET			2		72							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
210+45	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					62							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
210+75	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					62							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
211+10	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET AND W/ PIPE OUTLET			2		102							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
211+40	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					72							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
212+15	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
212+15	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
212+70	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					42							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
212+70	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					42							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
213+14	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					62							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
213+14	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET W/ F.E.S.						28					1	1				13	0.16	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
213+75	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET AND W/ PIPE OUTLET			4		60							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
213+75	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET AND W/ PIPE OUTLET			4		82							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
214+30	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
214+60	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					76							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
215+40	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET AND W/ PIPE OUTLET			4		112							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
216+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					122							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
216+55	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					110							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
217+25	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET AND W/ PIPE OUTLET			4		102							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
217+69	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					128							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
218+30	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					46							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
218+80	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					80							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
219+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					60							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
219+64	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					66							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
219+64	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					82							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
220+34	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					62							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
220+50	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					46							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
221+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					46							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
221+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					36							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
221+40	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					50							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
221+50	CONSTRUCT DROP INLET ON LT. W/ EXT. AND W/ PIPE OUTLET					40							1	1					FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
221+94	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET				30		56		1				1				8	0.10	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
221+94	CONSTRUCT DROP INLET ON RT. W/ EXT. AND W/ PIPE OUTLET W/ F.E.S.						28					1	1	1			13	0.16	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
222+50	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET						54						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
222+50	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET						56						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
223+95	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					140							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
223+95	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					142							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
224+50	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
224+55	CONSTRUCT DROP INLET ON RT. W/ EXT. AND W/ PIPE OUTLET					58							1		1				FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
225+30	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					76							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
226+20	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					80							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
226+20	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					164							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
226+60	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					76							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
226+75	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		52		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
227+30	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		68		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
227+40	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		96		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
228+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					98							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
228+40	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		66		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
229+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					46							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
229+10	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		76		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
229+50	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
229+90	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		52		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
230+05	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		48		1					1				5	0.06	FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
230+45	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		146		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
230+56	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		150		1					1				5	0.06	FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
231+95	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					102							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
232+10	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		126		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
233+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					36							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
233+40	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		66		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
233+40	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					126							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
234+10	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		58		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
234+70	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		78		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
234+70	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		104		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
235+50	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		52		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
235+78	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		58		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
236+05	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		92		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
236+40	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					56							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
237+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					202							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
237+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					86							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
237+90	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					136							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
239+05	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
SUBTOTALS (BOX 1 OF 2):		**88**	**88**	**102**	**30**	**7010**	**222**	**20**	**1**	**4**	**1**	**2**	**92**	**2**	**1**		**197**	**2.42**	

BASIS OF ESTIMATE:
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING

NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.

NOTE: FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE SPECIFIED.

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	48	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

STRUCTURES (BOX 2 OF 2)

STATION	DESCRIPTION	PIPE CULVERT ALTERNATES		PIPE CULVERT STORM DRAIN ALTERNATES 1, 2, 3, 4, AND 5				FLARED END SECTIONS FOR R.C. PIPE CULVERT AND STORM DRAIN ALTERNATES					DROP INLETS			YARD DRAINS	SOLID SODDING	WATER	STD. DWG. NOS.
		ALT. 1 (CLASS IV)	ALT. 2, 3, 4, 5, 6, AND 7 (WITH CLASS IV ALT. 1)										TYPE	EXT.					
		36"	36"	18"	24"	22"X14"	29"X18"	18"	24"	36"	22"X14"	29"X18"	MO	4'	8'		SQ.YD.	M.GAL.	
			LIN. FT.								EACH				EACH				
239+30	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
239+60	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		104		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
239+85	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					106							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
240+68	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET						82						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
240+95	CONSTRUCT DROP INLET ON RT. W/ EXT. AND W/ PIPE OUTLET						58						1	1					FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
241+55	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4			38	1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
241+55	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET W/ F.E.S.						38					1	1				13	0.16	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
242+05	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					46							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
242+30	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					70							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
242+85	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					76							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
242+85	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
245+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					36							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
245+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					36							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
245+40	CONSTRUCT DROP INLET ON LT. W/ EXT. AND W/ PIPE OUTLET					56							1	2					FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
245+40	CONSTRUCT DROP INLET ON RT. W/ EXT. AND W/ PIPE OUTLET					56							1	2					FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
246+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					136							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
246+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					96							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
247+00	CONSTRUCT DROP INLET ON RT. W/ EXT. AND W/ PIPE OUTLET					36							1		1				FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
247+40	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					56							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
247+40	CONSTRUCT DROP INLET ON RT. W/ EXT. AND W/ PIPE OUTLET					96							1		1				FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
248+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					36							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
248+40	CONSTRUCT DROP INLET ON LT. W/ EXT. AND W/ PIPE OUTLET					56							1	2					FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
248+40	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					262							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
249+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					96							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
250+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					76							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
250+80	CONSTRUCT DROP INLET ON LT. W/ EXT. AND W/ PIPE OUTLET					112							1		1				FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
251+05	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					122							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
251+95	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					184							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
252+30	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					148							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
253+82	CONSTRUCT DROP INLET ON LT. W/ EXT. AND W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			2		32		1					1	2			5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
253+82	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET						44						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
254+30	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET W/ F.E.S.						40					1	1				13	0.16	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
255+00	CONSTRUCT DROP INLET ON LT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		114		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
255+45	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S.			2				1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
256+20	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					116							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
256+20	CONSTRUCT DROP INLET ON RT. W/ EXT. AND W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4		72		1					1	2			5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
256+95	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					60							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
257+58	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					94							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
257+85	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					54							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
258+43	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					34							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
258+55	CONSTRUCT DROP INLET ON RT. W/ EXT. AND W/ PIPE OUTLET W/ F.E.S.					20					1		1	1			5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
258+92	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					46							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
259+40	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					56							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
260+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					56							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
260+60	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					62							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
261+25	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					116							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
261+25	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					132							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
262+45	CONSTRUCT DROP INLET ON LT. W/ EXT. AND W/ PIPE OUTLET					28							1	1					FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
262+60	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					162							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
262+75	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET W/ F.E.S.					32					1		1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
264+15	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					50							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
264+25	CONSTRUCT DROP INLET ON RT. W/ EXT. AND W/ PIPE OUTLET					162							1		1				FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
264+68	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					74							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
265+45	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					86							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
265+90	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					52							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
266+35	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					61							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
266+45	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					76							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
267+00	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET					141							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
267+25	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					116							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
268+45	CONSTRUCT DROP INLET ON LT. W/ PIPE INTLET W/ F.E.S. AND W/ PIPE OUTLET			4		64		1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
268+45	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					62							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
269+10	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET W/ F.E.S.					12					1		1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
269+10	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET					36							1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
269+40	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET						132						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
270+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET						96						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
270+75	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET						66						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
271+00	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET						40						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
271+45	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET						32						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
271+45	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET						90						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
272+40	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET						86						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
272+40	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET						72						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
273+15	CONSTRUCT DROP INLET ON RT. W/ PIPE INLET W/ F.E.S. AND W/ PIPE OUTLET			4			126	1					1				5	0.06	FES-1, FES-2, FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
273+30	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET						112						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
274+45	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET						118						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
274+45	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET						118						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
275+67	CONSTRUCT DROP INLET ON LT. W/ PIPE OUTLET						32						1						FPC-9E, FPC-9M, PCC-1, PCM-1, PCP-1, PCP-2, PCP-3
275+67	CONSTRUCT DROP INLET ON RT. W/ PIPE OUTLET						54						1						
ENTIRE PROJECT TO BE USED AS DIRECTED BY THE ENGINEER																6			
SUBTOTALS (BOX 1 OF 2):		**88**	**88**	**102**	**30**	**7010**	**222**	**20**	**1**	**4**	**1**	**2**	**92**	**2**	**1**		**197**	**2.42**	
SUBTOTALS (BOX 2 OF 2):				**26**		**4480**	**1474**	**8**			**3**	**2**	**77**	**13**	**4**	**6**	**81**	**0.98**	
TOTALS:		**88**	**88**	**128**	**30**	**11490**	**1696**	**28**	**1**	**4**	**4**	**4**	**169**	**15**	**5**	**6**	**278**	**3.40**	

BASIS OF ESTIMATE:
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING

NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.

NOTE: FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE SPECIFIED.

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	49	168
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT							ACHM BASE COURSE (1 1/2")				ACHM BINDER COURSE (1")				ACHM SURFACE COURSE (1/2")							
						(0.05 GAL. PER SQ. YD.)			(0.17 GAL. PER SQ. YD.)																			
				TON / STATION	TON	TOTAL WID.	SQ.YD.	GALLON	TOTAL WID.	SQ.YD.	GALLON	TOTAL GALLONS	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 64-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 64-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 64-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 64-22	TOTAL PG 64-22
			FEET			FEET			FEET				FEET			TON	FEET			TON	FEET			TON	FEET			TON	TON
MAIN LANES																												
100+00.00	129+93.51	HWY. 190 NORTH MAIN LANES	2993.51	98.00	2933.64	6.75	2245.13	112.26	20.00	6652.24	1130.88	1243.14	2.40	798.27	550.00	219.52	2.23	741.73	330.00	122.39	2.13	708.46	220.00	77.93	34.00	11308.82	220.00	1243.97	1321.90
129+93.51	130+93.51	HWY. 190 NORTH TRANSITION	100.00	32.75	32.75	3.38	37.56	1.88				1.88	1.20	13.33	550.00	3.67	1.20	13.33	330.00	2.20	1.20	13.33	220.00	1.47	34.00	377.78	220.00	41.56	43.03
200+11.00	200+71.00	HWY. 190 EAST MAIN LANES	60.00			29.00	193.33	9.67	20.00	133.33	22.67	32.34	13.00	86.67	550.00	23.83	8.00	53.33	330.00	8.80	8.00	53.33	220.00	5.87	28.00	186.67	220.00	20.53	26.40
200+71.00	207+38.00	HWY. 190 EAST MAIN LANES	667.00			29.00	2149.22	107.46	20.00	1482.22	251.98	359.44	6.50	481.72	550.00	132.47	4.00	296.44	330.00	48.91	4.00	296.44	220.00	32.61	28.00	2075.11	220.00	228.26	260.87
207+38.00	214+09.00	HWY. 190 EAST MAIN LANES	671.00			29.00	2162.11	108.11	20.00	1491.11	253.49	361.60	13.00	969.22	550.00	266.54	8.00	596.44	330.00	98.41	8.00	596.44	220.00	65.61	28.00	2087.56	220.00	229.63	295.24
214+09.00	224+64.00	HWY. 190 EAST MAIN LANES	1055.00			29.00	3399.44	169.97	20.00	2344.44	398.55	568.52	6.50	761.94	550.00	209.53	4.00	468.89	330.00	77.37	4.00	468.89	220.00	51.58	28.00	3282.22	220.00	361.04	412.62
224+64.00	226+19.00	HWY. 190 EAST MAIN LANES	155.00			29.00	499.44	24.97	20.00	344.44	58.55	83.52	6.50	111.94	550.00	30.78	4.00	68.89	330.00	11.37	4.00	68.89	220.00	7.58	28.00	482.22	220.00	53.04	60.62
226+19.00	236+05.00	HWY. 190 EAST MAIN LANES	986.00			29.00	3177.11	158.86	20.00	2191.11	372.49	531.35	6.50	712.11	550.00	195.83	4.00	438.22	330.00	72.31	4.00	438.22	220.00	48.20	28.00	3067.56	220.00	337.43	385.63
236+05.00	243+43.00	HWY. 190 EAST MAIN LANES	738.00			29.00	2378.00	118.90	20.00	1640.00	278.80	397.70	6.50	533.00	550.00	146.58	4.00	328.00	330.00	54.12	4.00	328.00	220.00	36.08	28.00	2296.00	220.00	252.56	288.64
243+43.00	250+85.00	HWY. 190 EAST MAIN LANES	742.00			29.00	2390.89	119.54	20.00	1648.89	280.31	399.85													28.00	2308.44	220.00	253.93	253.93
250+85.00	260+27.00	HWY. 190 EAST MAIN LANES	942.00			29.00	3035.33	151.77	20.00	2093.33	355.87	507.64	6.50	680.33	550.00	187.09	4.00	418.67	330.00	69.08	4.00	418.67	220.00	46.05	28.00	2930.67	220.00	322.37	368.42
260+27.00	276+22.00	HWY. 190 EAST MAIN LANES	1595.00			29.00	5139.44	256.97	20.00	3544.44	602.55	859.52													28.00	4962.22	220.00	545.84	545.84
276+22.00	277+22.00	HWY. 190 EAST TRANSITION	100.00			14.50	161.11	8.06				8.06	6.50	72.22	550.00	19.86	4.00	44.44	330.00	7.33	4.00	44.44	220.00	4.89	28.00	311.11	220.00	34.22	39.11
ADDITIONAL FOR LEVELING																												
100+00.00	102+00.00	HWY. 190 NORTH - LEVELING	200.00			20.00	444.44	22.22				22.22									20.00	444.44	VAR.	45.54				45.54
102+00.00	109+39.00	HWY. 190 NORTH - LEVELING	739.00			40.00	3284.44	164.22				164.22					20.00	1642.22	VAR.	266.84	20.00	1642.22	220.00	180.64				180.64
109+39.00	123+00.00	HWY. 190 NORTH - LEVELING	1361.00			20.00	3024.44	151.22				151.22									20.00	3024.44	VAR.	461.34				461.34
123+00.00	125+00.00	HWY. 190 NORTH - LEVELING	200.00			40.00	888.89	44.44				44.44					20.00	444.44	VAR.	52.09	20.00	444.44	220.00	48.89				48.89
125+00.00	128+00.00	HWY. 190 NORTH - LEVELING	300.00			20.00	666.67	33.33				33.33									20.00	666.67	VAR.	126.72				126.72
128+00.00	129+70.00	HWY. 190 NORTH - LEVELING	170.00			40.00	755.56	37.78				37.78					20.00	377.78	VAR.	15.89	40.00	755.56	220.00	83.11				83.11
129+70.00	129+93.51	HWY. 190 NORTH - LEVELING	23.51			20.00	52.24	2.61				2.61									20.00	52.24	VAR.	11.88				11.88
200+11.00	202+52.00	HWY. 190 EAST - LEVELING	241.00			20.00	535.56	26.78				26.78									20.00	535.56	VAR.	71.28				71.28
202+52.00	211+67.00	HWY. 190 EAST - LEVELING	915.00			40.00	4066.67	203.33				203.33					40.00	4066.67	VAR.	1633.65	40.00	4066.67	220.00	447.33				447.33
211+67.00	213+00.00	HWY. 190 EAST - LEVELING	133.00			20.00	295.56	14.78				14.78									20.00	295.56	VAR.	57.42				57.42
213+00.00	235+50.00	HWY. 190 EAST - LEVELING	2250.00			40.00	10000.00	500.00				500.00					20.00	5000.00	VAR.	1406.68	40.00	10000.00	220.00	1100.00				1100.00
235+50.00	240+00.00	HWY. 190 EAST - LEVELING	450.00			20.00	1000.00	50.00				50.00									20.00	1000.00	VAR.	215.82				215.82
240+00.00	253+00.00	HWY. 190 EAST - LEVELING	1300.00			40.00	5777.78	288.89				288.89					20.00	2888.89	VAR.	281.18	40.00	5777.78	220.00	635.56				635.56
253+00.00	255+30.00	HWY. 190 EAST - LEVELING	230.00			20.00	511.11	25.56				25.56									20.00	511.11	VAR.	65.34				65.34
255+30.00	257+85.00	HWY. 190 EAST - LEVELING	255.00			40.00	1133.33	56.67				56.67					20.00	566.67	VAR.	74.29	20.00	566.67	220.00	62.33				62.33
257+85.00	272+77.00	HWY. 190 EAST - LEVELING	1492.00			20.00	3315.56	165.78				165.78									20.00	3315.56	VAR.	522.72				522.72
272+77.00	276+22.00	HWY. 190 EAST - LEVELING	345.00			40.00	1533.33	76.67				76.67					20.00	766.67	VAR.	94.33	40.00	1533.33	220.00	168.67				168.67
TOTALS:					**2966.39**		**64253.69**	**3212.70**		**23565.55**	**4006.14**	**7218.84**		**5220.75**		**1435.70**		**19221.72**		**4397.24**		**38067.36**		**4682.46**		**35676.38**		**3924.38**	**8606.84**

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....94.2% MIN. AGGR.....5.8% ASPHALT BINDER
ACHM BINDER COURSE (1").....95.6% MIN. AGGR.....4.4% ASPHALT BINDER
ACHM BASE COURSE (1 1/2").....96.0% MIN. AGGR.....4.0% ASPHALT BINDER
TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

CONCRETE BASE

STATION	STATION	LOCATION	LENGTH	TACK COAT 0.05 GAL. PER SQ. YD.			PORTLAND CEMENT CONCRETE BASE	
				AVG. WID.	SQ. YD.	GAL.	AVG. WID.	5" U.T.
			FEET	FEET			FEET	SQ. YD.
200+71.00	207+38.00	HWY. 190 EAST MAIN LANES RT	667.00	4.00	296.44	14.82	10.50	778.17
214+09.00	224+64.00	HWY. 190 EAST MAIN LANES RT	1055.00	4.00	468.89	23.44	10.50	1230.83
224+64.00	226+19.00	HWY. 190 EAST MAIN LANES LT	155.00	4.00	68.89	3.44	10.50	180.83
226+19.00	236+05.00	HWY. 190 EAST MAIN LANES RT	986.00	4.00	438.22	21.91	10.50	1150.33
236+05.00	243+43.00	HWY. 190 EAST MAIN LANES LT	738.00	4.00	328.00	16.40	10.50	861.00
243+43.00	250+85.00	HWY. 190 EAST MAIN LANES LT & RT	742.00	8.00	659.56	32.98	21.00	1731.33
250+85.00	260+27.00	HWY. 190 EAST MAIN LANES LT	942.00	4.00	418.67	20.93	10.50	1099.00
260+27.00	276+22.00	HWY. 190 EAST MAIN LANES LT & RT	1595.00	8.00	1417.78	70.89	21.00	3721.67
TOTALS:					**4096.45**	**204.81**		**10753.16**

TACK COAT QUANTITIES WERE CALCULATED USING THE EMULISIFED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM		QUANTITY	UNIT
201	CLEARING		107	STATION
201	GRUBBING		107	STATION
202	REMOVAL AND DISPOSAL OF CURB		27	LIN. FT.
202	REMOVAL AND DISPOSAL OF FENCE		2782	LIN. FT.
202	REMOVAL AND DISPOSAL OF GATES		8	EACH
202	REMOVAL AND DISPOSAL OF RETAINING WALLS		45	LIN. FT.
202	REMOVAL AND DISPOSAL OF CONCRETE DRIVEWAYS		1117	SQ. YD.
202	REMOVAL AND DISPOSAL OF WALKS		16	SQ. YD.
202	REMOVAL AND DISPOSAL OF SIGN FOUNDATIONS		2	EACH
202	REMOVAL AND DISPOSAL OF DROP INLETS		3	EACH
202	REMOVAL AND DISPOSAL OF PIPE CULVERTS		118	EACH
202	REMOVAL AND DISPOSAL OF SIGNS		3	EACH
202	REMOVAL AND DISPOSAL OF PLANTERS		2	EACH
SP, SS, & 210	UNCLASSIFIED EXCAVATION		4458	CU. YD.
SP & 210	COMPACTED EMBANKMENT		16712	CU. YD.
SP & 210	SOIL STABILIZATION		500	TON
SP, SS, & 303	AGGREGATE BASE COURSE (CLASS 7)		7958	TON
SP, SS, & 309	PORTLAND CEMENT CONCRETE BASE (5" UNIFORM THICKNESS)		10753	SQ. YD.
SS & 401	TACK COAT		7524	GAL.
SP, SS, & 405	MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2")		1379	TON
SP, SS, & 405	ASPHALT BINDER (PG 64-22) IN ACHM BASE COURSE (1 1/2")		57	TON
SP, SS, & 406	MINERAL AGGREGATE IN ACHM BINDER COURSE (1")		4204	TON
SP, SS, & 406	ASPHALT BINDER (PG 64-22) IN ACHM BINDER COURSE (1")		193	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")		9026	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")		556	TON
SP & 412	COLD MILLING ASPHALT PAVEMENT		511	SQ. YD.
SP, SS, & 414	ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC		50	TON
SP, SS, & 415	ACHM PATCHING OF EXISTING ROADWAY		50	TON
SP, SS, & 505	PORTLAND CEMENT CONCRETE DRIVEWAY		1332.05	SQ. YD.
601	MOBILIZATION		1.00	LUMP SUM
SP & 602	FURNISHING FIELD OFFICE		1	EACH
SS & 603	MAINTENANCE OF TRAFFIC		1.00	LUMP SUM
SS & 604	SIGNS		776	SQ. FT.
SS & 604	TRAFFIC DRUMS		568	EACH
604	CONSTRUCTION PAVEMENT MARKINGS		85722	LIN. FT.
604	REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS		2324	LIN. FT.
SS & 604	VERTICAL PANELS		568	EACH
SP, SS, & 605	CONCRETE DITCH PAVING (TYPE B)		53	SQ. YD.
* SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	128	LIN. FT.
* SS & 606	18" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE	(ALTERNATE NO. 2)	128	LIN. FT.
* SP, SS, & 606	18" POLYPROPYLENE PIPE	(ALTERNATE NO. 3)	128	LIN. FT.
* SP, SS, & 606	18" HIGH DENSITY POLYETHYLENE PIPE	(ALTERNATE NO. 4)	128	LIN. FT.
* SP, SS, & 606	18" PVC PIPE	(ALTERNATE NO. 5)	128	LIN. FT.
* SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	30	LIN. FT.
* SS & 606	24" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE	(ALTERNATE NO. 2)	30	LIN. FT.
* SP, SS, & 606	24" POLYPROPYLENE PIPE	(ALTERNATE NO. 3)	30	LIN. FT.
* SP, SS, & 606	24" HIGH DENSITY POLYETHYLENE PIPE	(ALTERNATE NO. 4)	30	LIN. FT.
* SP, SS, & 606	24" PVC PIPE	(ALTERNATE NO. 5)	30	LIN. FT.
* SS & 606	36" REINFORCED CONCRETE PIPE CULVERTS (CLASS IV)	(ALTERNATE NO. 1)	88	LIN. FT.
* SS & 606	36" ASPHALT COATED CORRUGATED STEEL PIPE CULVERTS (14 GAUGE)	(ALTERNATE NO. 2)	88	LIN. FT.
* SS & 606	36" ALUMINUM COATED CORRUGATED STEEL PIPE CULVERTS (14 GAUGE)	(ALTERNATE NO. 3)	88	LIN. FT.
* SS & 606	36" POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE CULVERT (14 GAUGE)	(ALTERNATE NO. 4)	88	LIN. FT.
* SP, SS, & 606	36" POLYPROPYLENE PIPE	(ALTERNATE NO. 5)	88	LIN. FT.
* SP, SS, & 606	36" HIGH DENSITY POLYETHYLENE PIPE	(ALTERNATE NO. 6)	88	LIN. FT.
* SP, SS, & 606	36" PVC PIPE	(ALTERNATE NO. 7)	88	LIN. FT.
* SS & 606	22" X 14" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	11490	LIN. FT.
* SS & 606	21" X 15" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL ARCH PIPE	(ALTERNATE NO. 2)	11490	LIN. FT.
* SS & 606	29" X 18" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	1696	LIN. FT.
* SS & 606	28" X 20" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL ARCH PIPE	(ALTERNATE NO. 2)	1696	LIN. FT.
* SS & 606	18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	(ALTERNATE NO. 1)	28	EACH
* SS & 606	18" FLARED END SECTIONS FOR CORRUGATED STEEL PIPE CULVERTS	(ALTERNATE NO. 2)	28	EACH
* SS & 606	24" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	(ALTERNATE NO. 1)	1	EACH
* SS & 606	24" FLARED END SECTIONS FOR CORRUGATED STEEL PIPE CULVERTS	(ALTERNATE NO. 2)	1	EACH
* SS & 606	36" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	(ALTERNATE NO. 1)	4	EACH
* SS & 606	36" FLARED END SECTIONS FOR CORRUGATED STEEL PIPE CULVERTS	(ALTERNATE NO. 2)	4	EACH
* SS & 606	22" X 14" FLARED END SECTIONS FOR REINFORCED CONCRETE ARCH PIPE CULVERTS	(ALTERNATE NO. 1)	4	EACH
* SS & 606	21" X 15" FLARED END SECTIONS FOR CORRUGATED STEEL ARCH PIPE CULVERT	(ALTERNATE NO. 2)	4	EACH
* SS & 606	29" X 18" FLARED END SECTIONS FOR REINFORCED CONCRETE ARCH PIPE CULVERTS	(ALTERNATE NO. 1)	4	EACH
* SS & 606	28" X 20" FLARED END SECTIONS FOR CORRUGATED STEEL ARCH PIPE CULVERT	(ALTERNATE NO. 2)	4	EACH
SP, SS, & 606	18" SIDE DRAIN		62	LIN. FT.
SP, SS, & 606	24" SIDE DRAIN		62	LIN. FT.
SS & 606	28" X 20" SIDE DRAIN		218	LIN. FT.
SS & 606	35" X 24" SIDE DRAIN		52	LIN. FT.
SS & 606	SELECTED PIPE BEDDING		340	CU. YD.
SS & 609	DROP INLETS (TYPE MO)		169	EACH
SS & 609	DROP INLET EXTENSIONS (4')		15	EACH
SS & 609	DROP INLET EXTENSIONS (8')		5	EACH
SS & 609	YARD DRAINS		6	EACH
SS & 611	4" PIPE UNDERDRAINS		6000	LIN. FT.
SS & 611	UNDERDRAIN OUTLET PROTECTORS		24	EACH
SS & 615	PAVEMENT REPAIR OVER CULVERTS (ASPHALT)		140	TON
SS & 619	WIRE FENCE (TYPE C)		555	LIN. FT.
* SS & 619	4' STEEL CHAIN LINK FENCE	(ALTERNATE NO. 1)	1366	LIN. FT.
* SS & 619	5' STEEL CHAIN LINK FENCE	(ALTERNATE NO. 1)	98	LIN. FT.
* SS & 619	4' ALUMINUM CHAIN LINK FENCE	(ALTERNATE NO. 2)	1366	LIN. FT.
* SS & 619	5' ALUMINUM CHAIN LINK FENCE	(ALTERNATE NO. 2)	98	LIN. FT.
* SS & 619	16' STEEL GATES	(ALTERNATE NO. 1)	4	EACH
* SS & 619	16' ALUMINUM GATES	(ALTERNATE NO. 2)	4	EACH
620	LIME		14	TON
620	SEEDING		7.00	ACRE
SS & 620	MULCH COVER		46.70	ACRE
620	WATER		1527.8	M. GAL.
621	TEMPORARY SEEDING		39.70	ACRE
621	SILT FENCE		4194	LIN. FT.
621	SAND BAG DITCH CHECKS		4422	BAG
621	SEDIMENT BASIN		2950	CU. YD.
621	OBLITERATION OF SEDIMENT BASIN		2950	CU. YD.
621	SEDIMENT REMOVAL AND DISPOSAL		3316	CU. YD.
SS & 621	FILTER SOCK (12")		4410	LIN. FT.
623	SECOND SEEDING APPLICATION		7.00	ACRE
624	SOLID SODDING		314	SQ. YD.
626	EROSION CONTROL MATTING (CLASS 3)		258	SQ. YD.
SP, SS, & 633	CONCRETE WALKS		5052	SQ. YD.
SP, SS, & 633	CONCRETE WALKS (TYPE SPECIAL)		144	SQ. YD.
SS & 633	HAND RAILING		162	LIN. FT.
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")		14808	LIN. FT.
635	ROADWAY CONSTRUCTION CONTROL		1.00	LUMP SUM
637	MAILBOXES		45	EACH
SS & 637	MAILBOX SUPPORTS (SINGLE)		45	EACH
SP, SS, & 641	WHEELCHAIR RAMPS (TYPE 2)		20	SQ. YD.
SP, SS, & 641	WHEELCHAIR RAMPS (TYPE 3)		243	SQ. YD.
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (6")		6163	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")		2302	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (6")		21610	LIN. FT.
721	RAISED PAVEMENT MARKERS (TYPE II)		133	EACH
SP	ARCHITECTURAL FINISH		259	SQ. FT.
SP	TEXTURED COATING FINISH		17	SQ. YD.
SS & 816	FILTER BLANKET		215	SQ. YD.
SS & 816	DUMPED RIPRAP		108	CU. YD.

* DENOTES ALTERNATE BID ITEMS.

REVISIONS

DATE	REVISION	SHEET NUMBER
7/22/2025	REVISED FLEXIBLE BEGINNING OF WORK SPECIAL PROVISION.	3, 50
8/7/2025	REVISED P.C.C. BASE WIDENING SPECIAL DETAIL, WHEELCHAIR RAMPS, REMOVAL AND DISPOSAL QUANTITIES, DRIVEWAYS & TURNOUTS QUANTITIES, AND PERMANENT PAVEMENT MARKINGS.	5, 34, 36-40, 43, 45, 46, 50, 60, 68, & 70

SUMMARY OF QUANTITIES AND REVISIONS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER DAVID WILLIAM BAKER, IV No. 15158

DATE REVISED	DATE REVISED	DATE REVISED
07/22/2025		
08/07/2025		

FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	020628	50	168

SUMMARY OF QUANTITIES AND REVISIONS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	51	168
		SURVEY CONTROL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

SURVEY CONTROL COORDINATES

PROJECT NAME: S020628
DATE: 2/21/2018
COORDINATE SYSTEM: ARKANSAS STATE PLANE -SOUTH ZONE BASED ON GPS CONTROL, PROJECTED TO GROUND.
UNITS: U.S. SURVEY FOOT

POINT NAME	NORTHING	EASTING	ELEV	FEATURE	DESCRIPTION
1	1879067.0908	1300242.7418	228.51	CTL	STANDARD ARDOT CAP STAMPED PN: 1
2	1879064.8826	1299781.8223	229.40	CTL	STANDARD ARDOT CAP STAMPED PN: 2
3	1879068.2429	1299358.2988	230.18	CTL	STANDARD ARDOT CAP STAMPED PN: 3
4	1879122.0892	1298675.2182	230.51	CTL	STANDARD ARDOT CAP STAMPED PN: 4
5	1879080.8269	1298269.0791	231.33	CTL	STANDARD ARDOT CAP STAMPED PN: 5
6	1879084.4902	1297801.8241	232.79	CTL	STANDARD ARDOT CAP STAMPED PN: 6
7	1879117.1498	1297397.9322	233.68	CTL	STANDARD ARDOT CAP STAMPED PN: 7
8	1879079.7348	1296986.7217	233.70	CTL	STANDARD ARDOT CAP STAMPED PN: 8
9	1879133.4852	1296247.4465	235.78	CTL	STANDARD ARDOT CAP STAMPED PN: 9
10	1879104.1168	1295630.2132	236.68	CTL	STANDARD ARDOT CAP STAMPED PN: 10
11	1879100.3155	1295160.0159	237.51	CTL	STANDARD ARDOT CAP STAMPED PN: 11
12	1879138.5526	1294736.5624	238.31	CTL	STANDARD ARDOT CAP STAMPED PN: 12
13	1879108.7152	1294270.9455	237.54	CTL	STANDARD ARDOT CAP STAMPED PN: 13
14	1879121.3382	1293748.0990	240.44	CTL	STANDARD ARDOT CAP STAMPED PN: 14
15	1879093.5149	1293209.7001	240.89	CTL	STANDARD ARDOT CAP STAMPED PN: 15
16	1879090.3207	1292857.0294	243.00	CTL	STANDARD ARDOT CAP STAMPED PN: 16
17	1879096.1041	1292467.5157	242.19	CTL	STANDARD ARDOT CAP STAMPED PN: 17
18	1879122.9973	1291958.6222	242.96	CTL	STANDARD ARDOT CAP STAMPED PN: 18
19	1879128.2897	1291545.9586	243.57	CTL	STANDARD ARDOT CAP STAMPED PN: 19
20	1878801.0891	1291486.7318	243.03	CTL	STANDARD ARDOT CAP STAMPED PN: 20
21	1878339.4165	1291517.3763	241.63	CTL	STANDARD ARDOT CAP STAMPED PN: 21
22	1877336.9199	1291467.7763	239.15	CTL	STANDARD ARDOT CAP STAMPED PN: 22
23	1876757.0306	1291440.8341	238.34	CTL	STANDARD ARDOT CAP STAMPED PN: 23
24	1876215.9246	1291441.1801	242.52	CTL	STANDARD ARDOT CAP STAMPED PN: 24
25	1876165.7315	1291006.4817	244.53	CTL	STANDARD ARDOT CAP STAMPED PN: 25
26	1876161.7662	1290581.1741	244.15	CTL	STANDARD ARDOT CAP STAMPED PN: 26
27	1876220.9160	1290114.0550	245.83	CTL	STANDARD ARDOT CAP STAMPED PN: 27
100	1881985.9145	1306576.1486	222.27	GPS	ARDOT GPS MON. 350023
101	1876384.4623	1304278.1475	228.47	GPS	ARDOT GPS MON. 350031
900	1877242.8482	1291454.8822	239.74	TBM	CHISELED SQUARE
901	1879139.6367	1291454.8822	234.28	TBM	SE CORNER CONCRETE PAD 42.9' N
902	1879050.5744	1296173.7325	236.54	TBM	CHISELED SQUARE
903	1879146.3742	1294765.5538	238.52	TBM	CHISELED SQUARE
904	1879084.3192	1293706.6156	240.58	TBM	CHISELED SQUARE
905	18791438.8231	1293706.6156	242.25	TBM	CHISELED SQUARE
906	1879092.8069	1291504.8413	243.61	TBM	CHISELED SQUARE
907	1876147.5850	1291052.7095	244.00	TBM	CHISELED SQUARE
990	1879140.0197	1299424.3792	230.02	BM	NGS BM R288
991	1879057.9740	1302598.5367	228.35	BM	NGS BM S288

*NOTE - REBAR AND CAP - STANDARD - 5/8" REBAR WITH 2" ALUMINUM CAP STAMPED
*(STANDARD MARKINGS COMMON TO ALL CAPS), OR AS INDICATED
(OTHER MARKINGS INDICATED IN THE POINT DESCRIPTION OF THE INDIVIDUAL POINT).
ALL DISTANCES ARE GROUND.
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT.
A PROJECT CAF OF 0.9999185661 HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES.
THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.
GRID DISTANCE = GROUND DISTANCE X CAF.
GRID COORDINATES ARE STORED UNDER FILE NAME S020628G1.CTL
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88 POSITIONAL ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE AT A SPECIFIC POINT.

REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED.
REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL

BASIS OF BEARING:
ARKANSAS STATE PLANE GRID BEARINGS - 0302-SOUTH ZONE
DETERMINED FROM GPS CONTROL POINTS: 350023 - 350023A & 350031 - 350031A
CONVERGENCE ANGLE: 00-01-58 LEFT AT LAT N 34-13-25 LON W092-03-30
GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

HWY. 190 NORTH

POINT NO.	TYPE	STATION	NORTHING	EASTING
8000	POB	99+00.00	1876104.0003	1291456.6075
8001	PC	100+55.81	1876259.8087	1291455.7140
8003	PT	103+23.02	1876526.9519	1291460.4119
8004	PC	104+82.79	1876686.5936	1291466.9453
8006	PT	105+85.87	1876789.6106	1291470.2334
8007	PC	107+57.65	1876961.3537	1291474.1693
8009	PT	108+21.75	1877025.4418	1291475.2793
8010	PC	110+14.84	1877218.5124	1291477.5434
8012	PT	111+20.94	1877324.5922	1291479.7698
8013	PC	112+29.03	1877432.6357	1291483.0385
8015	PT	112+91.56	1877495.1403	1291484.5882
8016	PC	125+66.26	1878769.6026	1291509.2293
8018	PT	126+57.77	1878861.1126	1291510.2676
8019	PC	127+99.64	1879002.9746	1291510.7442
8021	PT	128+92.39	1879095.7153	1291511.8064
8022	POE	131+97.63	1879400.8994	1291517.7726

HWY. 190 EAST

POINT NO.	TYPE	STATION	NORTHING	EASTING
8024	POB	200+00.00	1879111.1017	1291512.1072
8025	PC	213+04.41	1879107.8616	1292816.5097
8027	PT	213+56.04	1879107.6171	1292868.1390
8028	PC	224+03.11	1879100.2986	1293915.1897
8030	PT	226+40.17	1879113.3389	1294151.7356
8031	PC	226+53.43	1879114.8882	1294164.9022
8033	PT	228+46.37	1879126.1051	1294357.4050
8034	PC	234+48.75	1879125.6669	1294959.7847
8036	PT	235+38.71	1879124.8951	1295049.7459
8037	PC	241+95.51	1879114.1047	1295706.4541
8039	PT	242+49.36	1879113.4731	1295760.2987
8040	PC	264+56.50	1879097.9545	1297967.3855
8042	PT	264+95.37	1879097.7471	1298006.2501
8043	POE	277+81.37	1879093.0667	1299292.2427

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	52	168
		SURVEY CONTROL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

PN25
POI STANDARD ARDOT CAP STAMPED PN2

SURVEY BASELINE S 83°24'48" W
437.59'

POB 99+00.00

99 100 101 102 103 104 105 106 107 108 109 110 111 112

N 0°19'43" W
155.81'

N 0°19'43" W
133.63'

N 2°20'37" E
133.63'

N 2°20'37" E
159.78'

N 2°20'37" E
51.54'

N 1°18'46" E
51.54'

N 1°18'46" E
171.79'

N 1°18'46" E
32.05'

N 0°40'19" E
32.05'

N 0°40'19" E
193.08'

N 0°40'19" E
53.05'

N 1°43'58" E
53.05'

N 1°43'58" E
108.09'

N 1°43'58" E
31.26'

N 1°06'28" E
31.26'

8000 8001 8003 8004 8006 8007 8009 8010 8012 8013 8015

HWY. 190 NORTH
PI = 101+89.44
Δ = 2°40'20"RT.
D = 1°00'00"
T = 133.63'
L = 267.21'
PC = 100+55.81
PT = 103+23.02
NO SUPER

P.I. 101+89.44

PC 100+55.81

PT 103+23.02

HWY. 190 NORTH
PI = 105+34.33
Δ = 1°01'51"LT.
D = 1°00'00"
T = 51.54'
L = 103.08'
PC = 104+82.79
PT = 105+85.87
NO SUPER

PC 104+82.79

PT 105+85.87

P.I. 105+34.33

SURVEY BASELINE

HWY. 190 NORTH
PI = 107+89.70
Δ = 0°38'27"LT.
D = 1°00'00"
T = 32.05'
L = 64.10'
PC = 107+57.65
PT = 108+21.75
NO SUPER

PC 107+57.65

PT 108+21.75

P.I. 107+89.70

P.I. 110+67.89

HWY. 190 NORTH
PI = 112+60.30
Δ = 0°37'30"LT.
D = 1°00'00"
T = 31.27'
L = 62.53'
PC = 112+29.03
PT = 112+91.56
NO SUPER

PC 112+29.03

PT 112+91.56

P.I. 112+60.30

HWY. 190 NORTH
PI = 110+67.89
Δ = 1°03'39"RT.
D = 1°00'00"
T = 53.05'
L = 106.10'
PC = 110+14.84
PT = 111+20.94
NO SUPER

PC 110+14.84

PT 111+20.94

PN2
POI STANDARD ARDOT CAP STAMPED PN2

C.L. HWY. 190

P.I. 105+34.33
POI STANDARD ARDOT CAP STAMPED PN2

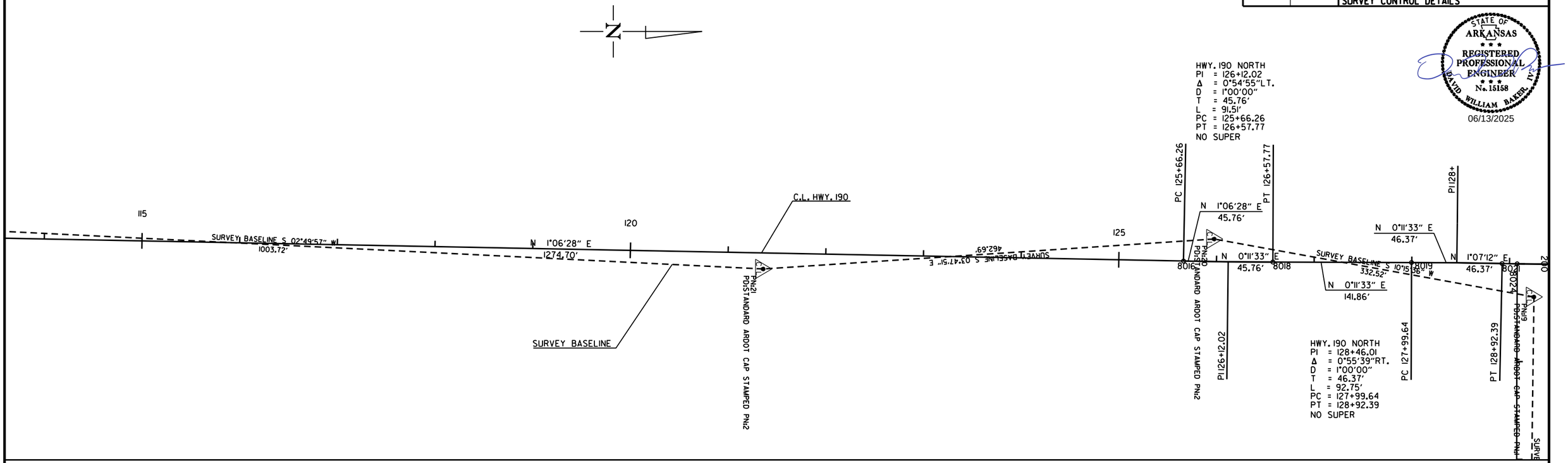
STA. 100+00.00
BEGIN JOB 020628
AND HWY. 190 NORTH
LOG MILE 1.13

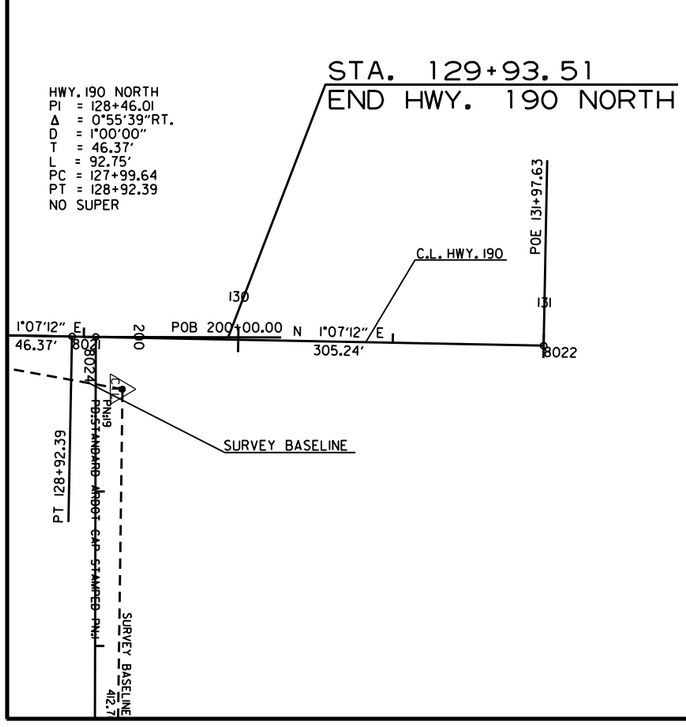
SURVEY CONTROL DETAILS

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R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	53	168
		SURVEY CONTROL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025





SURVEY CONTROL DETAILS

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	54	168

SURVEY CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

N

POB 200+00.00
N 1°07'12" E 305.24'
N 1°07'12" E 80.01'
N 1°07'12" E 46.37'
SURVEY BASELINE S 10°15'36" W 332.52'
N 0°11'33" E 141.86'
8024
8019
8018

200 205 210 215

SURVEY BASELINE N 89°15'55" W 412.70'
PN:9
PD:STANDARD ARDOT CAP STAMPED PN:1

PN:8
PD:STANDARD ARDOT CAP STAMPED PN:1

SURVEY BASELINE N 86°58'30" W 509.60'

S 89°51'28" E 1304.41'

PN:7
PD:STANDARD ARDOT CAP STAMPED PN:1

SURVEY BASELINE N 89°08'58" W 389.56'

PN:6
PD:STANDARD ARDOT CAP STAMPED PN:1

SURVEY BASELINE S 89°28' 352.69'

C.L. HWY. 190

PI 213+30.22

S 89°51'28" E 25.82'

S 89°35'58" E 25.82'

8025 8027

PT 128+92.39

PC 127+99.64

PC 213+04.41

PT 213+56.04

SURVEY BASELINE

STA. 200+11.00
BEGIN HWY. 190 EAST
LOG MILE 1.68

HWY. 190 EAST
PI = 213+30.22
Δ = 0°15'30"RT.
D = 0°30'00"
T = 25.81'
L = 51.63'
PC = 213+04.41
PT = 213+56.04
NO SUPER

N

215 220 225 230

SURVEY BASELINE S 89°28'52" W 352.69'

PN:5
PD:STANDARD ARDOT CAP STAMPED PN:1

S 89°35'58" E 1047.08'

SURVEY BASELINE S 87°02'30" W 339.12'

PN:4
PD:STANDARD ARDOT CAP STAMPED PN:1

SURVEY BASELINE

C.L. HWY. 190

PC 224+03.11

HWY. 190 EAST
PI = 225+21.79
Δ = 7°06'42"LT.
D = 3°00'00"
T = 118.68'
L = 237.06'
PC = 224+03.11
PT = 226+40.17
e = 0.024'/'
Ls = 125'

SURVEY BASELINE N 88°37'01" W 523.00'

S 89°35'58" E 118.68'

8028

PI 225+21.79

N 83°17'20" E 118.68'

PT 226+40.17

N 83°17'20" E 13.26'

PC 226+53.43

8030 8031

PI 227+50.01

S 89°57'30" E 96.58'

8033

PT 228+46.37

PN:3
PD:STANDARD ARDOT CAP STAMPED PN:1

SURVEY BASELINE S 86°20' 466.97'

HWY. 190 EAST
PI = 227+50.01
Δ = 6°45'10"RT.
D = 3°30'00"
T = 96.58'
L = 192.94'
PC = 226+53.43
PT = 228+46.37
e = 0.026'/'
Ls = 125'

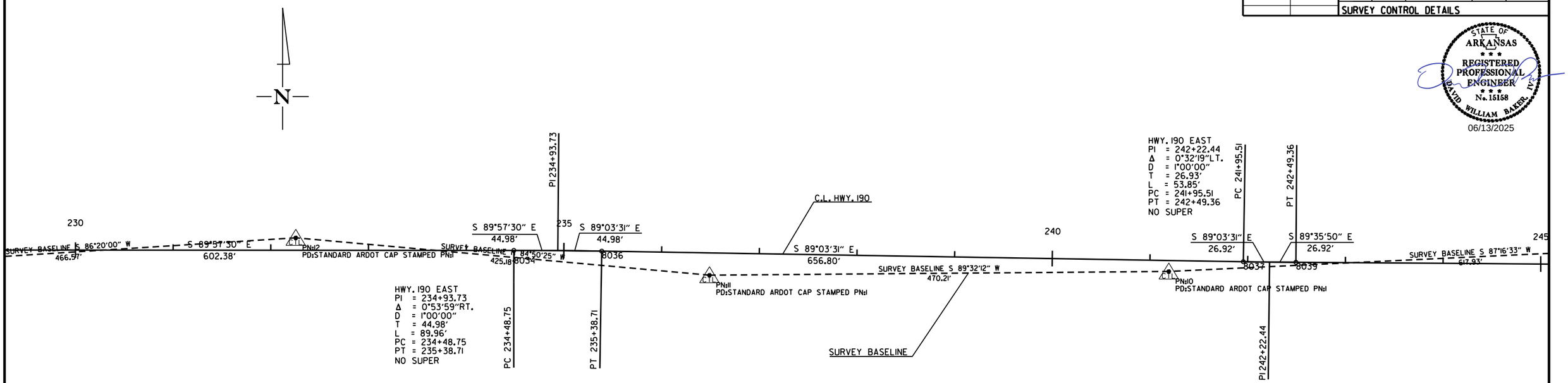
SURVEY CONTROL DETAILS

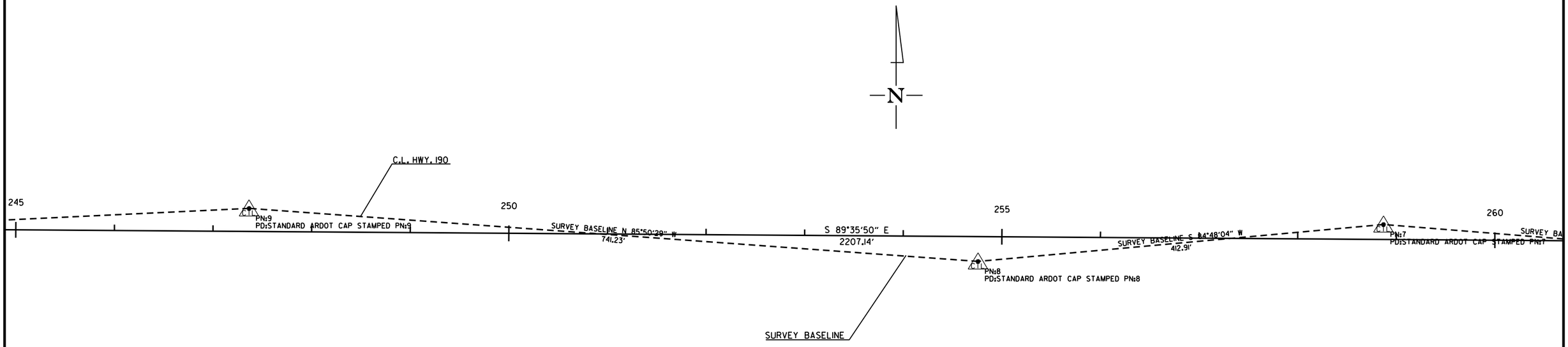
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	55	168

SURVEY CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



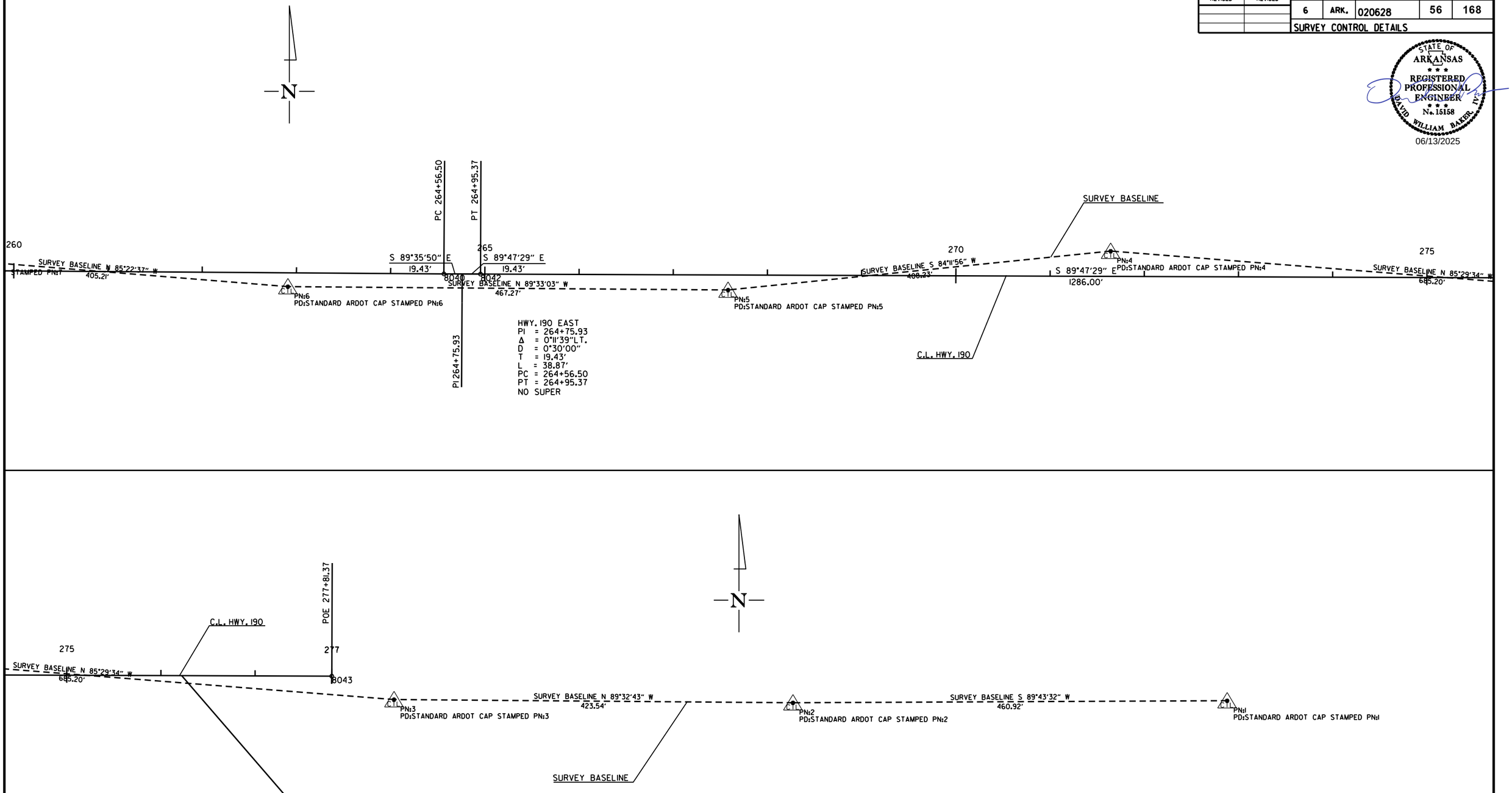


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SURVEY CONTROL DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	56	168
		SURVEY CONTROL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025



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SURVEY CONTROL DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	57	168
		PLAN AND PROFILE SHEETS				

STATE OF ARKANSAS
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No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

STA. 99+85.48 HWY. 190 EAST
Δ = 92°24'48"

POB 99+85.48

W 13TH AVE.

HWY. 190 NORTH
PI = 101+89.44
Δ = 2°40'20"RT.
D = 1°00'00"
T = 133.63'
L = 267.21'
PC = 100+55.81
PT = 103+23.02
NO SUPER

PI101+89.44

PROP. R/W
CONST. LIMITS

N 0°19'43" W

PC100+55.81

STA. 100+34 CONSTRUCT TYPE SPECIAL SIDEWALK ON RT. = 144. SQ. YD.

STA. 100+34 INSTALL HAND RAIL ON RT. = 162 LIN. FT.

STA. 102+38 CONSTRUCT APPROACH ON RT. = 20 CU. YD.

PT103+23.02

STA. 103+39 IN PLACE
24" X 30' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND INSTALL
29" X 18" X 28' ARCH PIPE CULVERT
CONSTRUCT APPROACH = 15 CU. YD.

STA. 103+30 IN PLACE
DBL. 30" X 36' C.M. PIPE CULVERT
REMOVE AND INSTALL
DBL. 36" X 44' PIPE CULVERT
W/ F.E.S. LT. AND RT.
Q25 = 31CFS D.A. = 28 ACRES
36" R.C. PIPE (CLASS IV)(TYPE 3) = 92 LIN. FT.
36" ACCSP (TYPE I) = 92 LIN. FT.
36" AICCSP (TYPE I) = 92 LIN. FT.
36" HDPE (TYPE 2) = 92 LIN. FT.
36" PVC (TYPE 2) = 92 LIN. FT.
36" PPMCCSP = 92 LIN. FT.
36" PLL = 92 LIN. FT.
36" F.E.S. = 4 EACH

HWY. 190 NORTH
PI = 105+34.33
Δ = 1°01'51"LT.
D = 1°00'00"
T = 51.54'
L = 103.08'
PC = 104+82.79
PT = 105+85.87
NO SUPER

PC104+82.79

STA. 105+55 IN PLACE
18" X 24' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND INSTALL
29" X 18" X 28' ARCH PIPE CULVERT
CONSTRUCT TURNOUT = 15 CU. YD.

PI105+34.33

W 12TH AVE.

PT105+85.87

STA. 109+39 IN PLACE
30" X 50' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND INSTALL
36" X 23" X 52' ARCH PIPE CULVERT
CONSTRUCT APPROACH = 50 CU. YD.

STA. 110+70 IN PLACE
24" X 50 C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND INSTALL
29" X 18" X 50' ARCH PIPE CULVERT
CONSTRUCT APPROACH = 30 CU. YD.

STA.	STA.	SIDE	TYPE	LIN. FT.
108+46	109+09	LT	C	65

STA. 111+48 IN PLACE
20" X 33' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND INSTALL
29" X 18" X 28' ARCH PIPE CULVERT
CONSTRUCT TURNOUT = 20 CU. YD.

PC107+57.65

PT108+21.75

HWY. 190 NORTH
PI = 107+89.70
Δ = 0°38'27"LT.
D = 1°00'00"
T = 32.05'
L = 64.10'
PC = 107+57.65
PT = 108+21.75
NO SUPER

PI107+89.70

STA. 111+58 IN PLACE
24" X 48' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND INSTALL
29" X 18" X 50' ARCH PIPE CULVERT
CONSTRUCT APPROACH = 35 CU. YD.

PI110+67.89

HWY. 190 NORTH
PI = 110+67.89
Δ = 1°03'39"RT.
D = 1°00'00"
T = 53.05'
L = 106.10'
PC = 110+14.84
PT = 111+20.94
NO SUPER

PC110+14.84

PT111+20.94

HWY. 190 NORTH
PI = 112+60.30
Δ = 0°37'30"LT.
D = 1°00'00"
T = 31.27'
L = 62.53'
PC = 112+29.03
PT = 112+91.56
NO SUPER

PC112+29.03

N 0°40'19" E

N 1°43'58" E

HWY. 190 NORTH

REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

STA. 100+00.00
BEGIN JOB 020628
& HWY. 190 NORTH
LOG MILE 1.13

NOTE:
FOR CONSTRUCTION OF TEMPORARY WORK RAMPS OR HAUL ROADS, THIS STREAM IS CLASSIFIED AS AN INTERMITTENT STREAM. THE STREAM BANK ELEVATION IS 234.0 FT. MSL. BETWEEN STATIONS 108+20 AND 108+30. REFER TO SECTION 110.05(C) OF THE STANDARD SPECIFICATIONS

P.V.I. 100+00.00 ELEV. 242.58
P.V.I. 101+03.23 ELEV. 242.40
P.V.C. 101+91.25 ELEV. 242.37
P.V.I. 102+26.25 ELEV. 242.36
P.V.C. 102+63.27 ELEV. 241.47
P.V.T. 102+61.25 ELEV. 241.52
P.V.I. 103+13.27 ELEV. 240.26
P.V.T. 103+63.27 ELEV. 240.06
P.V.C. 106+65.28 ELEV. 238.82
P.V.I. 107+00.00 235.72 LT.
P.V.I. 107+15.28 ELEV. 238.61
P.V.T. 107+65.28 ELEV. 238.88
P.V.C. 107+88.82 ELEV. 239.01
P.V.I. 108+25.00 233.86 LT.
P.V.I. 108+35.00 233.86 LT.
P.V.I. 108+38.82 ELEV. 239.28
P.V.T. 108+88.82 ELEV. 239.15
P.V.C. 109+37.76 ELEV. 239.01
P.V.I. 109+65.26 ELEV. 238.94
P.V.T. 109+92.76 ELEV. 239.17
P.V.I. 110+00.00 236.27 LT.

-0.18% -0.03% 2.41% -0.41% 0.54% -0.27% 0.83%

K=50.00 VC=100' e=0.25'
K=29.41 VC=70' e=-0.21'
K=105.26 VC=100' e=0.12'
K=123.46 VC=100' e=-0.10'
K=50.00 VC=55' e=0.08'

LT. D.G. -1.49%
LT. D.G. 0.00%
LT. D.G. 1.46%

265 260 255 250 245 240 235 230 225 220

97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00 112+00

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	58	168
		PLAN AND PROFILE SHEETS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

HWY. 190 NORTH
PI = 112+60.30
Δ = 0°37'30"LT.
D = 1°00'00"
T = 31.27'
L = 62.53'
PC = 112+29.03
PT = 112+91.56
NO SUPER

STA.	STA.	SIDE	TYPE	LIN. FT.
117+68	121+08	RT	C	330

STA. 126+22 IN PLACE
24" X 40' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND INSTALL
24" X 32' PIPE CULVERT
CONSTRUCT APPROACH = 30 CU. YD.

STA. 121+25 INSTALL
29" X 18" X 34' ARCH PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 20 CU. YD.

STA. 124+57 IN PLACE
20" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND INSTALL
24" X 30' PIPE CULVERT
CONSTRUCT APPROACH = 30 CU. YD.

STA. 126+16 INSTALL
18" X 34' R.C. PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 30 CU. YD.

HWY. 190 NORTH
PI = 126+12.02
Δ = 0°54'55"LT.
D = 1°00'00"
T = 45.76'
L = 91.51'
PC = 125+66.26
PT = 126+57.77
NO SUPER

REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

HWY. 190 NORTH

P.V.C. 112+15.98 ELEV. 241.02
0.83%
P.V.I. 112+65.98 ELEV. 241.43
K=181.82 VC=100' e=-0.07'
P.V.T. 113+15.98 ELEV. 241.57
0.28%
P.V.C. 115+58.27 ELEV. 242.25
P.V.I. 116+08.27 ELEV. 242.39
K=476.19 VC=100' e=-0.03'
P.V.T. 116+58.27 ELEV. 242.43
0.07%
P.V.C. 121+07.27 ELEV. 242.14
K=294.12 VC=100' e=0.04'
P.V.I. 121+57.27 ELEV. 242.78
122+00.00 239.99 RT.
122+00.00 239.99 LT.
P.V.T. 122+07.27 ELEV. 242.98
0.41%
P.V.C. 123+15.48 ELEV. 243.43
P.V.I. 123+65.48 ELEV. 243.63
K=400.00 VC=100' e=-0.03'
0.16%
P.V.T. 124+15.48 ELEV. 243.71
LT. D.G. 0.10%
RT. DITCH GRADE 0.10%
P.V.C. 125+46.20 ELEV. 243.92
P.V.I. 125+96.20 ELEV. 244.00
K=140.85 VC=100' e=-0.09'
0.55%
K=49.18 VC=60' e=0.09'
P.V.T. 126+46.20 ELEV. 243.73
127+00.00 240.48 RT.
127+00.00 240.48 LT.
P.V.C. 126+89.40 ELEV. 243.49

265 260 255 250 245 240 235 230 225 220

112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00 127+00

R843088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	59	168
		PLAN AND PROFILE SHEETS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

STA. 129+70 IN PLACE
18" X 23' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
CONSTRUCT APPROACH = 20 CU. YD.

STA.	STA.	SIDE	TYPE	LIN. FT.
124+36	125+96	LT	C	160
127+63	128+54	RT	4' CHAIN LINK	91

STA. 129+07.77 HWY. 190 NORTH=
STA. 200+00.00 HWY. 190 EAST
Δ = 90°00'00"

STA. 129+93.51
STA. 130+93.51
100' TRANSITION
POE 131+97.63
PI 128+46.01
CONST. LIMITS
PROP. R/W
N 0°11'33" E
N 1°07'12" E
200+70
PROP. R/W
HWY. 190 NORTH
PI = 128+46.01
Δ = 0°55'39"RT.
D = 1°00'00"
T = 46.37'
L = 92.75'
PC = 127+99.64
PT = 128+92.39
NO SUPER
PC 127+99.64
S 89°57'28" E
PROP. R/W
PROP. R/W

STA. 128+85 IN PLACE
DROP INLET ON RT.
AND 21" X 24' C.M. PIPE
AND 24" X 24' C.M. PIPE
AND 24" X 41' C.M. PIPE
REMOVE

STA. 129+29 IN PLACE
DROP INLET ON RT.
AND 24" X 24' C.M. PIPE
AND 20" X 26' C.M. PIPE
REMOVE

REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

STA. 129+93.51
END HWY. 190 NORTH

HWY. 190 NORTH

K=49.18
VC=60'
e=0.09'
P.V.T. 127+49.40
ELEV. 243.52
K=40.74
VC=55'
e=-0.09'
P.V.C. 128+90.04
ELEV. 244.47
P.V.I. 129+17.54
ELEV. 244.65
P.V.T. 129+93.51
ELEV. 244.14
0.67%
-0.68%
RT. D.G. 048%
LT. D.G. 0.23%
127+00.00 240.48 LT.
127+00.00 240.48 RT.
P.V.I. 127+19.40
ELEV. 243.32
128+33.00 241.12 RT.
128+85.00 240.91 LT.
STA. 128+85
F.L. OUTLET=240.91
P.V.T. 129+45.04
ELEV. 244.46

265 260 255 250 245 240 235 230 225 220
127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00 142+00

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	60	168
		PLAN AND PROFILE SHEETS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

STA. 200+59 CONSTRUCT
TYPE 2 WHEELCHAIR RAMP ON LT.
= 19.6 SQ. YDS.

STA. 200+88 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 32' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 200+88 RT.
DROP INLET H = 2'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 201+31 IN PLACE
24" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 201+56 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 64' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 200+88 LT.
DROP INLET H = 2'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 202+25 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 66' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 201+56 LT.
DROP INLET H = 2'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 202+52 IN PLACE
18" X 22' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 203+29 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 100' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 202+25 LT.
DROP INLET H = 2'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 203+54 IN PLACE
18" X 22' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 203+80 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 116' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 205+00 LT.
DROP INLET H = 2'-0"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 204+44 IN PLACE
18" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 20 CU. YD.

STA. 205+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 126' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 206+30 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 205+29 IN PLACE
24" X 16' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 30 CU. YD.

STA. 206+30 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 48' PIPE OUTLET
CONNECT TO DROP INLET
@ STA. 206+82 LT.
DROP INLET H = 2'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 206+56 IN PLACE
24" X 25' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 206+82 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 114' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 208+00 LT.
DROP INLET H = 2'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 208+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 142' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 209+45 LT.
DROP INLET H = 2'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 208+80 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE

STA. 209+45 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 210+00 LT.
DROP INLET H = 2'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 209+73 IN PLACE
18" X 26' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 210+00 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET
AND 22" X 14" X 72' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 210+75 LT.
DROP INLET H = 2'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 210+48 IN PLACE
18" X 20' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 210+75 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 62' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 211+40 LT.
DROP INLET H = 2'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 211+40 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 72' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 212+15 LT.
DROP INLET H = 2'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 211+67 IN PLACE
18" X 18' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 212+99 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 212+15 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 212+70 LT.
DROP INLET H = 2'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 212+44 IN PLACE
24" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 212+70 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 42' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 213+14 LT.
DROP INLET H = 2'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 213+14 IN PLACE
24" X 30' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 62' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 213+14 RT.
DROP INLET H = 2'-11"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 213+30 IN PLACE
24" X 26' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 10 CU. YD.

STA. 213+60 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 213+75 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 60' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 213+14 LT.
DROP INLET H = 3'-0"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 214+30 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET
@ STA. 213+75 LT.
DROP INLET H = 2'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 214+59 IN PLACE
18" X 26' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA.	STA.	SIDE	TYPE	LIN. FT.
200+25	201+11	RT	4' CHAIN LINK	98
201+32	201+83	RT	4' CHAIN LINK	51
211+51	212+29	RT	4' CHAIN LINK	80

STA. 200+00.00 HWY. 190 EAST=
STA. 129+07.77 HWY. 190 NORTH
Δ = 90°00'00"

STA. 200+11.00
BEGIN HWY. 190 EAST
LOG MILE 1.68

STA. 200+44 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 200+45 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 66' PIPE OUTLET W/ F.E.S.
DROP INLET H = 3'-1"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 200+59 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 200+88 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 40' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 200+45 RT.
DROP INLET H = 2'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 201+22 IN PLACE
18" X 25' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 201+48 CONSTRUCT
DROP INLET ON RT. W/OPENING IN BACK
AND 22" X 14" X 56' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 200+88 RT.
DROP INLET H = 3'-0"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 201+98 IN PLACE
18" X 28' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 202+70 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 118' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 201+48 RT.
DROP INLET H = 2'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1 EACH

STA. 203+00 CONSTRUCT
APPROACH ON RT. = 15 CU. YD.

STA. 203+33 IN PLACE
18" X 17' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE

STA. 203+70 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 202+70 RT.
DROP INLET H = 2'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 205+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 206+00 RT.
DROP INLET H = 2'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 206+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 207+00 RT.
DROP INLET H = 2'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 207+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 208+00 RT.
DROP INLET H = 2'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 208+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 126' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 209+30 RT.
DROP INLET H = 2'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 209+30 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 48' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 209+82 RT.
DROP INLET H = 2'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 209+57 IN PLACE
18" X 21' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 20 CU. YD.

STA. 209+82 CONSTRUCT
DROP INLET ON RT.
AND 18" X 2 PIPE INLET
AND 22" X 14" X 60' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 210+45 RT.
DROP INLET H = 2'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 210+12 IN PLACE
18" X 24' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 210+45 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 62' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 211+10 RT.
DROP INLET H = 2'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 211+10 CONSTRUCT
DROP INLET ON RT.
AND 18" X 2' PIPE INLET
AND 22" X 14" X 102' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 212+15 RT.
DROP INLET H = 2'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 211+34 IN PLACE
18" X 19' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 212+15 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 212+70 RT.
DROP INLET H = 2'-9"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 212+46 IN PLACE
18" X 18' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 212+70 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 42' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 213+14 RT.
DROP INLET H = 3'-0"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 213+00 CONSTRUCT
TYPE 3 WHEELCHAIR WHEELCHAIR ON RT.
= 5.4 SQ. YDS.

STA. 213+14 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 28' PIPE OUTLET W/ F.E.S.
DROP INLET H = 3'-0"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 213+30 CONSTRUCT
TURNOUT ON RT. = 5 CU. YD.

STA. 213+60 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 213+75 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 82' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 214+60 RT.
DROP INLET H = 3'-1"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 214+09 CONSTRUCT
APPROACH ON RT. = 20 CU. YD.

STA. 214+60 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 76' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 215+40 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 214+87 IN PLACE
18" X 18' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

HWY. 190 EAST
PI = 213+30.22
Δ = 0°15'30"RT.
D = 0°30'00"
T = 25.81'
L = 51.63'
PC = 213+04.41
PT = 213+56.04
NO SUPER

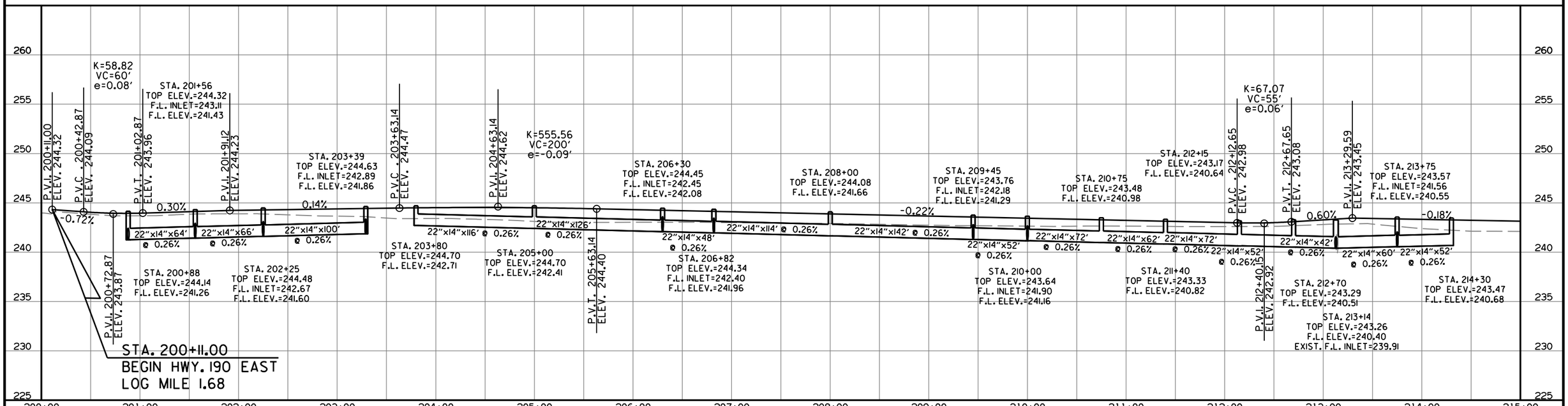
HWY. 190 EAST

RB43088 8/7/2025
R020628.DGN MicroStation v8.11.9.578

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

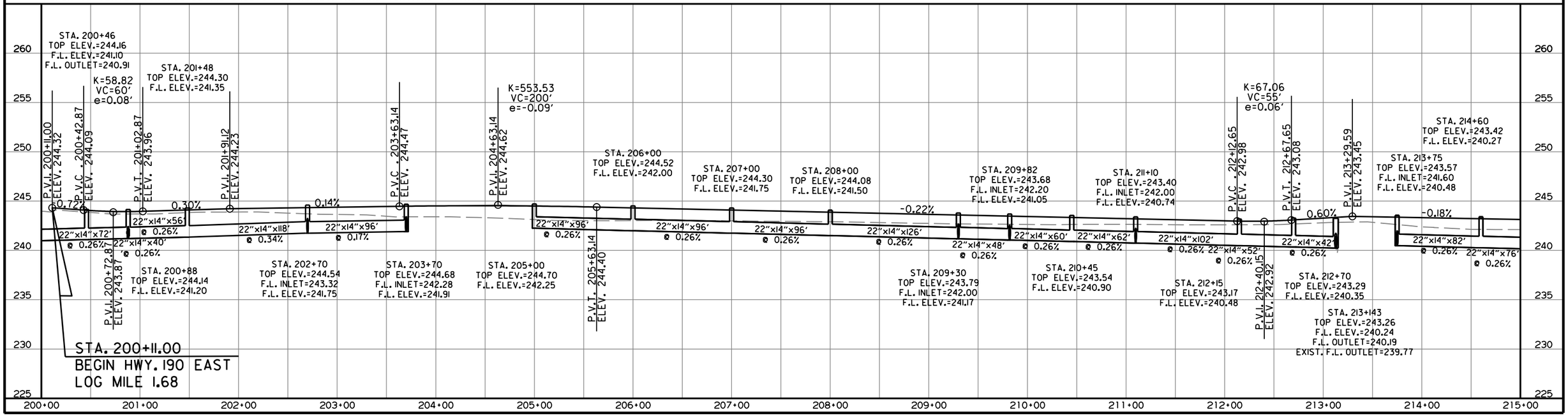
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	61	168
		PLAN AND PROFILE SHEETS				

LEFT SIDE OF HWY. 190 EAST



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

RIGHT SIDE OF HWY. 190 EAST



RB43088 6/5/2025
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	62	168
		PLAN AND PROFILE SHEETS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER
06/13/2025

STA. 216+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 122' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 217+25 LT.
DROP INLET H = 3'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 217+99 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 217+25 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 102' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 218+30 LT.
DROP INLET H = 3'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 217+39 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 217+69 IN PLACE
24" X 30' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 25 CU. YD.

STA. 218+30 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 46' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 218+80 LT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 218+55 IN PLACE
18" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 219+40 IN PLACE
18" X 26' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 219+64 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 66' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 220+34 LT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 219+88 IN PLACE
15" X 38' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 220+34 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 62' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+00 LT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 220+59 IN PLACE
12" X 20' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 221+00 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 46' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+50 LT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 221+26 IN PLACE
18" X 26' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 221+50 CONSTRUCT
DROP INLET ON LT. W/4' EXTENSION
W/OPENING IN BACK
AND 22" X 14" X 40' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+94 LT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 221+94 IN PLACE
24" X 32' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
DROP INLET ON LT.
AND 24" X 30' PIPE INLET W/F.E.S.
AND 29" X 18" X 56' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+94 RT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 222+00 CONSTRUCT
DROP INLET ON RT. W/OPENING IN BACK
AND 22" X 14" X 46' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+50 RT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 222+14 CONSTRUCT
TURNOUT ON LT. = 10 CU. YDS.

STA. 222+44 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 222+50 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 29" X 18" X 54' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+94 LT.
DROP INLET H = 3'-4"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 222+79 IN PLACE
15" X 19' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 223+95 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 140' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 222+50 LT.
DROP INLET H = 2'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 224+21 IN PLACE
18" X 20' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 224+50 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 223+95 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 225+30 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 76' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 224+50 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 225+60 IN PLACE
18" X 24' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 226+20 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 86' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 225+30 RT.
DROP INLET H = 1'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 226+47 IN PLACE
18" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 226+75 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 227+30 LT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 227+02 IN PLACE
18" X 18' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 227+30 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 68' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 228+00 LT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 227+35 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 227+62 IN PLACE
18" X 20' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 227+89 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 228+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 98' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 229+00 LT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 229+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 46' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 229+50 LT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 229+50 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 230+05 LT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 218+80 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 80' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 219+64 LT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

HWY. 190 EAST
PI = 225+21.79
Δ = 7°06'42"LT.
D = 3°00'00"
T = 118.68'
L = 237.06'
PC = 224+03.11
PT = 226+40.17
e = 0.024'/'
Ls = 125'

STA. 229+79 IN PLACE
C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

S. PRYCE ST.

S. GROSS ST.

S. YOUNG ST.

PROP. R/W

CONST. LIMITS

S89°35'58"E

N83°17'20"E

S89°57'30"E

STA. 215+40 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 112' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 216+55 RT.
DROP INLET H = 3'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 215+67 IN PLACE
18" X 24' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 216+55 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 110' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 217+69 RT.
DROP INLET H = 3'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 216+85 IN PLACE
18" X 24' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 217+69 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 128' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 219+00 RT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 219+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 60' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 219+64 RT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 219+64 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 82' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 220+50 RT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 220+50 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 46' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+00 RT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 220+75 IN PLACE
12" X 22' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 221+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 36' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+40 RT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 221+40 CONSTRUCT
DROP INLET ON RT. W/OPENING IN BACK
AND 22" X 14" X 50' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+94 RT.
DROP INLET H = 3'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 221+79 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 221+84 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 221+94 CONSTRUCT
DROP INLET ON RT. W/4' EXTENSION
AND 29" X 18" X 28' PIPE OUTLET W/F.E.S.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 222+09 IN PLACE
18" X 36' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
TURNOUT = 20 CU. YD.

STA. 222+39 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 222+50 CONSTRUCT
DROP INLET ON RT. W/OPENING IN BACK
AND 29" X 18" X 56' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 221+94 RT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 222+79 IN PLACE
24" X 16' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 223+95 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 142' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 222+50 RT.
DROP INLET H = 2'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 224+25 CONSTRUCT
APPROACH ON RT. = 5 CU. YD.

STA. 224+55 CONSTRUCT
DROP INLET ON RT. W/8' EXTENSION
AND 22" X 14" X 58' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 223+95 RT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 226+20 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 164' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 224+55 RT.
DROP INLET H = 1'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 226+60 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 76' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 227+40 RT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 226+92 IN PLACE
18" X 17' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 227+40 CONSTRUCT
DROP INLET ON RT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 228+40 RT.
DROP INLET H = 2'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 228+14 IN PLACE
18" X 25' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 228+40 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 66' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 229+10 RT.
DROP INLET H = 2'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 228+66 IN PLACE
18" X 18' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 229+10 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 76' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 229+90 RT.
DROP INLET H = 2'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 229+36 IN PLACE
24" X 18' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 229+90 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 230+45 RT.
DROP INLET H = 2'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA.	STA.	SIDE	TYPE	LIN. FT.
223+78	224+70	LT	4' CHAIN LINK	74
226+44	227+73	RT	4' CHAIN LINK	112
229+86	230+22	LT	4' CHAIN LINK	35

HWY. 190 EAST
PI = 227+50.01
Δ = 6°45'10"RT.
D = 3°30'00"
T = 96.58'
L = 192.94'
PC = 226+53.43
PT = 228+46.37
e = 0.026'/'
Ls = 125'

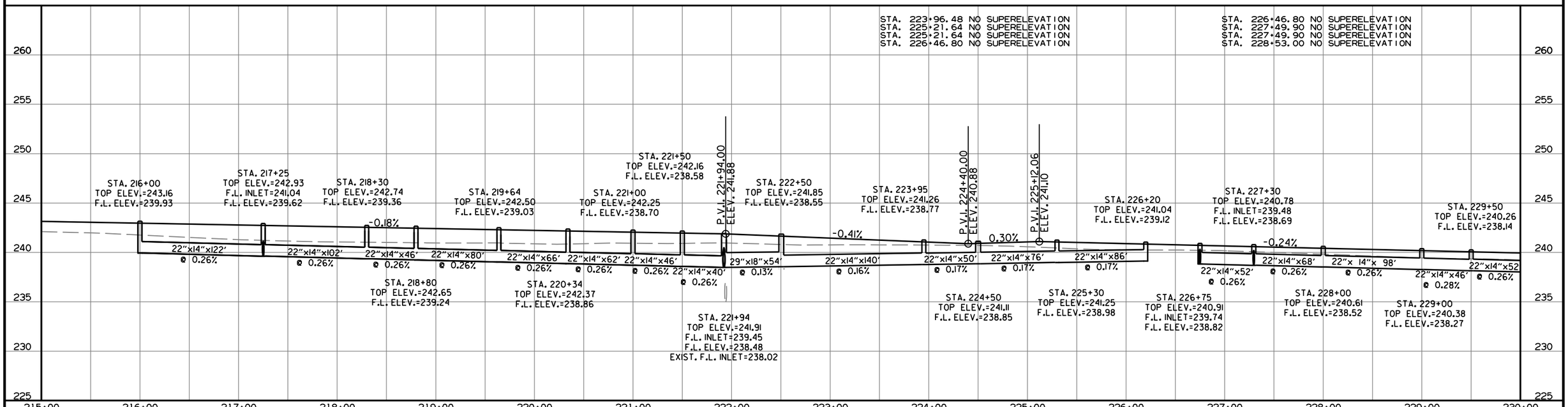
HWY. 190 EAST

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	63	168
		PLAN AND PROFILE SHEETS				

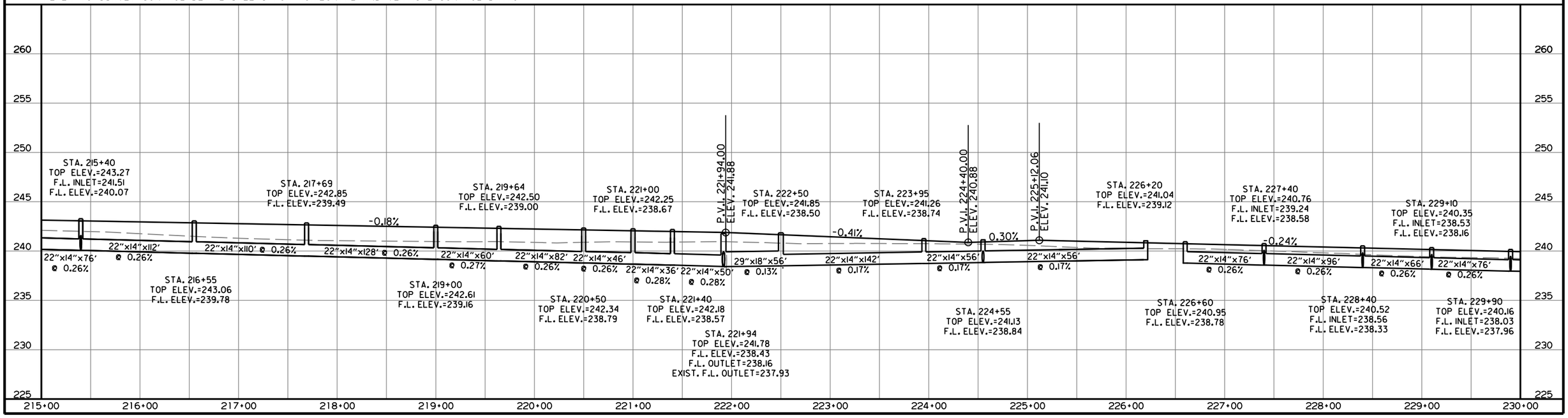
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

LEFT SIDE OF HWY. 190 EAST



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

RIGHT SIDE OF HWY. 190 EAST



RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	64	168
		PLAN AND PROFILE SHEETS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER
06/13/2025

STA. 230+05 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 48' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 230+56 LT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 230+31 IN PLACE
C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 230+56 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 150' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 232+10 LT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 232+10 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 126' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 233+40 LT.
DROP INLET H = 2'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 232+45 IN PLACE
18" X 64' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 233+40 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 66' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 234+10 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 233+83 IN PLACE
18" X 20' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 234+10 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 58' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 234+70 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 234+45 IN PLACE
24" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 234+70 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 78' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 235+50 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 234+96 IN PLACE
24" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 235+50 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 236+05 LT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 235+78 IN PLACE
24" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 236+05 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 92' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 237+00 LT.
DROP INLET H = 2'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 236+25 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 236+55 IN PLACE
18" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 236+85 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 237+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 202' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 239+05 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 239+05 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 239+60 LT.
DROP INLET H = 2'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 239+33 IN PLACE
18" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 239+60 CONSTRUCT
DROP INLET ON LT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 104' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 240+68 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 240+39 CONSTRUCT
APPROACH ON LT. = 10 CU. YD.

STA. 240+68 CONSTRUCT
DROP INLET ON LT.
AND 29" X 18" X 82' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 241+55 LT.
DROP INLET H = 2'-11"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 240+77 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 241+05 IN PLACE
24" X 30' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 15 CU. YD.

STA. 241+33 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 241+55 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 29" X 18" X 38' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 241+55 RT.
DROP INLET H = 3'-4"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

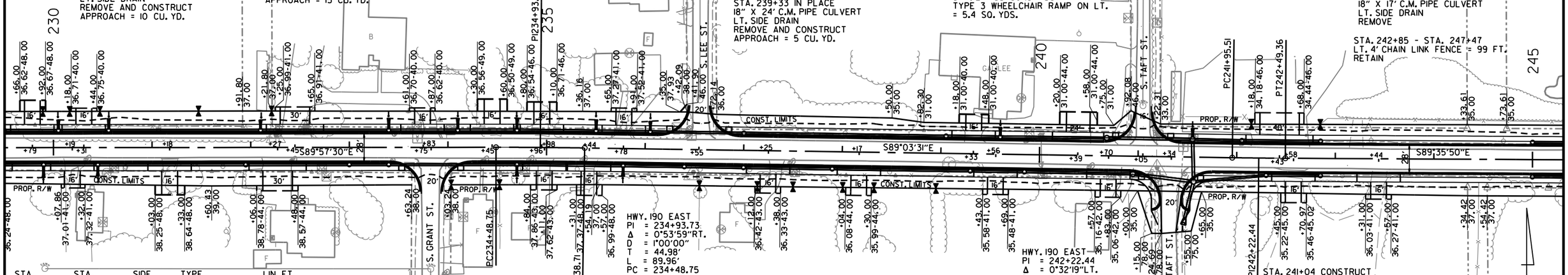
STA. 242+05 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 46' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 241+55 LT.
DROP INLET H = 3'-0"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 242+43 IN PLACE
18" X 62' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 25 CU. YD.

STA. 242+85 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 76' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 242+05 LT.
DROP INLET H = 2'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 243+22 IN PLACE
18" X 17' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE

STA. 242+85 - STA. 247+47
LT. 4' CHAIN LINK FENCE = 99 FT.
RETAIN



STA.	STA.	SIDE	TYPE	LIN. FT.
230+39	232+01	LT	4' CHAIN LINK	161
234+03	234+52	LT	4' CHAIN LINK	46
236+56	237+24	RT	4' CHAIN LINK	69
237+50	238+08	RT	4' CHAIN LINK	58
238+28	238+94	RT	4' CHAIN LINK	68
242+14	242+85	LT	4' CHAIN LINK	70

HWY. 190 EAST
PI = 234+93.73
Δ = 0°53'59"RT.
D = 1°00'00"
T = 44.98'
L = 89.96'
PC = 234+48.75
PT = 235+38.71
NO SUPER

HWY. 190 EAST
PI = 242+22.44
Δ = 0°32'19"LT.
D = 1°00'00"
T = 26.93'
L = 53.85'
PC = 241+95.51
PT = 242+49.36
NO SUPER

STA. 230+19 IN PLACE
24" X 24' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 230+45 CONSTRUCT
DROP INLET ON RT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 146' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 231+95 RT.
DROP INLET H = 2'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 231+18 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 231+95 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 102' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 233+00 RT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 232+27 IN PLACE
15" X 35' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 25 CU. YD.

STA. 233+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 36' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 233+40 RT.
DROP INLET H = 2'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 233+40 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 126' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 234+70 RT.
DROP INLET H = 2'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 233+53 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 233+83 IN PLACE
18" X 30' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 234+13 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 234+70 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 104' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 235+78 RT.
DROP INLET H = 2'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 234+98 IN PLACE
18" X 26' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 235+44 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 235+78 CONSTRUCT
DROP INLET ON RT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 58' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 236+40 RT.
DROP INLET H = 2'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 236+40 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 56' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 236+40 RT.
DROP INLET H = 2'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 237+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 86' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 237+90 RT.
DROP INLET H = 2'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 237+25 IN PLACE
18" X 28' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 237+90 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 136' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 239+30 RT.
DROP INLET H = 2'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 238+17 IN PLACE
18" X 17' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 239+30 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 239+85 RT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 239+56 IN PLACE
18" X 30' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 239+85 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 106' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 240+95 RT.
DROP INLET H = 2'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 240+70 CONSTRUCT
APPROACH ON RT. = 10 CU. YD.

STA. 240+95 CONSTRUCT
DROP INLET ON RT. W/4' EXTENSION
AND 29" X 18" X 58' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 241+55 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 241+04 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 241+34 IN PLACE
18" X 30' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 15 CU. YD.

STA. 241+55 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 38' PIPE OUTLET W/ F.E.S.
DROP INLET H = 3'-4"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 241+64 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 242+30 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 70' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 241+55 RT.
DROP INLET H = 2'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 242+58 CONSTRUCT
APPROACH ON RT. = 10 CU. YD.

STA. 242+85 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 52' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 242+30 RT.
DROP INLET H = 2'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'

STA. 243+44 CONSTRUCT
APPROACH ON RT. = 5 CU. YD.

N

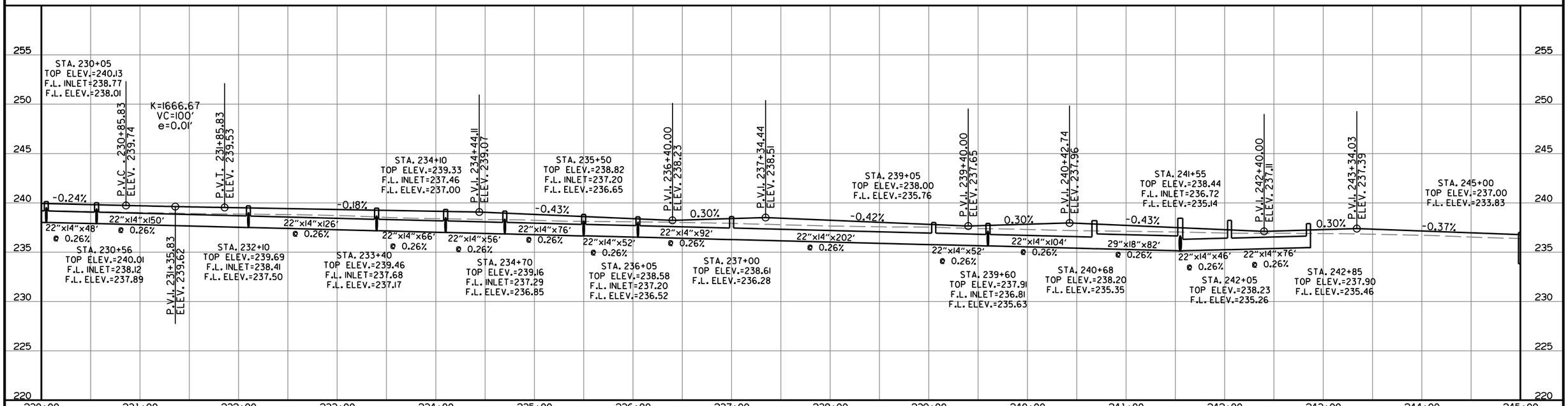
HWY. 190 EAST

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

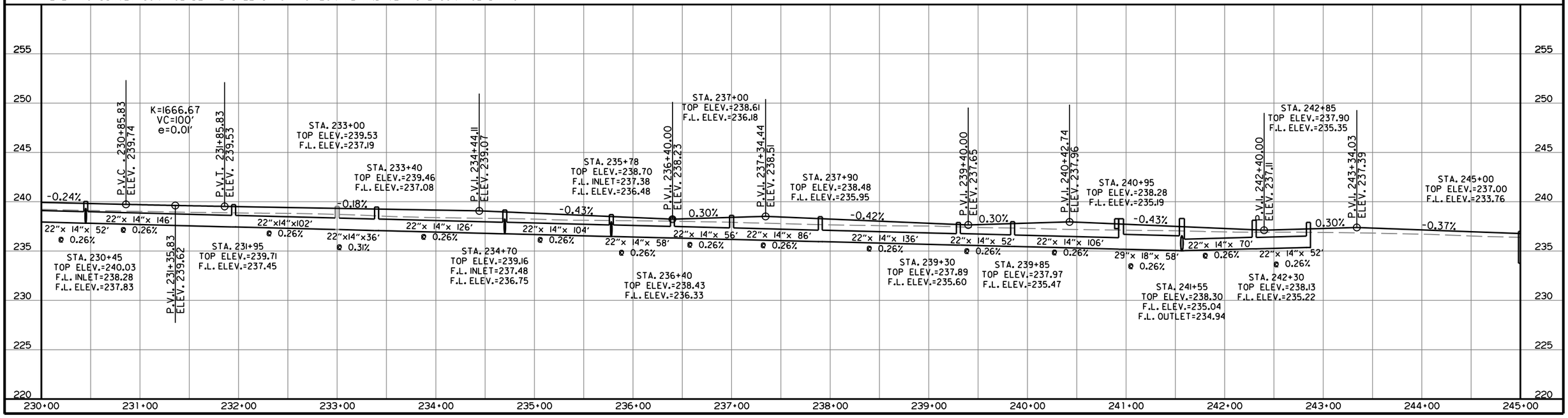
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	65	168
		PLAN AND PROFILE SHEETS				

LEFT SIDE OF HWY. 190 EAST



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

RIGHT SIDE OF HWY. 190 EAST



RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	66	168
		PLAN AND PROFILE SHEETS				

STA.	STA.	SIDE	TYPE	LIN. FT.
256+73	257+50	RT	4' CHAIN LINK	61
257+95	258+20	RT	4' CHAIN LINK	27
258+37	258+68	RT	4' CHAIN LINK	45

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, JR.
06/13/2025

STA. 245+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 36' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 245+40 LT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 36 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 36 LIN. FT.

STA. 245+40 CONSTRUCT
DROP INLET ON LT. W/4' EXTENSION LT. AND RT.
AND 22" X 14" X 56' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 246+00 LT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 56 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 56 LIN. FT.

STA. 246+00 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 136' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 247+40 LT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 136 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 136 LIN. FT.

STA. 246+50 CONSTRUCT
APPROACH ON LT. = 25 CU. Y

STA. 247+40 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 56' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 248+00 LT.
DROP INLET H = 3'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 56 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 56 LIN. FT.

STA. 248+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 36' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 248+40 LT.
DROP INLET H = 3'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 36 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 36 LIN. FT.

STA. 248+40 CONSTRUCT
DROP INLET ON LT. W/4' EXTENSION LT. AND RT.
AND 22" X 14" X 56' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 249+00 LT.
DROP INLET H = 3'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 56 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 56 LIN. FT.

STA. 249+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 250+00 LT.
DROP INLET H = 4'-1"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 96 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 96 LIN. FT.

STA. 250+00 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 76' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 250+80 LT.
DROP INLET H = 4'-1"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 76 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 76 LIN. FT.

STA. 250+80 CONSTRUCT
DROP INLET ON LT. W/8' EXTENSION
AND 22" X 14" X 112' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 251+95 LT.
DROP INLET H = 3'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 112 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 112 LIN. FT.

STA. 251+09 CONSTRUCT
APPROACH ON LT. = 5 CU. YD.

STA. 251+95 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 184' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 253+82 LT.
DROP INLET H = 3'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 184 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 184 LIN. FT.

STA. 252+22 IN PLACE
18" X 30' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 253+50 CONSTRUCT
APPROACH ON LT. = 5 CU. YD.

STA. 253+82 CONSTRUCT
DROP INLET ON LT. W/4' EXTENSION LT. AND RT.
AND 18" X 2' PIPE INLET W/F.E.S.
AND 22" X 14" X 32' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 253+82 RT.
DROP INLET H = 3'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III)(TYPE 3) = 2 LIN. FT.
18" F.E.S. = 1EACH
22" X 14" R.C. PIPE (CLASS V)(TYPE 3) = 32 LIN. FT.
22" X 14" ASPHALT CSP (TYPE 2) = 32 LIN. FT.
22" X 14" ALUMINUM CSP (TYPE 2) = 32 LIN. FT.
22" X 14" PCCS (TYPE 2) = 32 LIN. FT.

STA. 254+47 IN PLACE
24" X 30' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 10 CU. YD.

STA. 254+17 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 254+77 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 255+00 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 114' PIPE OUTLET
CONNECT TO DROP INLET AT STA. 253+82 LT
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III)(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1EACH
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 114 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 114 LIN. FT.

STA. 255+30 IN PLACE
18" X 25' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 256+20 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 116' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 255+00 LT.
DROP INLET H = 2'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 116 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 116 LIN. FT.

STA. 257+35 IN PLACE
18" X 32' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 257+85 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 54' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 258+43 LT.
DROP INLET H = 3'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 54 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 54 LIN. FT.

STA. 258+72 CONSTRUCT
APPROACH ON LT. = 5 CU. YD.

STA. 258+14 IN PLACE
18" X 31' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 258+43 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 34' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 258+55 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS V)(TYPE 3) = 34 LIN. FT.
22" X 14" ASPHALT CSP (TYPE 2) = 34 LIN. FT.
22" X 14" ALUMIMUM CSP (TYPE 2) = 34 LIN. FT.
22" X 14" PCCS (TYPE 2) = 34 LIN. FT.

STA. 258+60 IN PLACE
18" X 36' C.M. PIPE CULVERT
REMOVE 5' LT.
FILL AND ABANDON

STA. 258+92 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 46' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 258+43 LT.
DROP INLET H = 3'-1"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS V)(TYPE 3) = 46 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 46 LIN. FT.

STA. 259+18 CONSTRUCT
APPROACH ON LT. = 5 CU. YD.

STA. 259+54 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 259+84 CONSTRUCT
TURNOUT ON LT. = 10 CU. YD.

STA. 260+14 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 245+00 CONSTRUCT
DROP INLET ON RT. W/OPENING IN BACK
AND 22" X 14" X 36' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 245+40 RT.
DROP INLET H = 3'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 36 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 36 LIN. FT.

STA. 245+40 CONSTRUCT
DROP INLET ON RT. W/4' EXTENSION LT. AND RT.
W/OPENING IN BACK
AND 22" X 14" X 56' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 246+00 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 56 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 56 LIN. FT.

STA. 246+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 247+00 RT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 96 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 96 LIN. FT.

STA. 246+57 IN PLACE
15" X 24' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 247+00 CONSTRUCT
DROP INLET ON RT. W/8' EXTENSION
AND 22" X 14" X 36' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 247+40 RT.
DROP INLET H = 3'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 36 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 36 LIN. FT.

STA. 247+40 CONSTRUCT
DROP INLET ON RT. W/8' EXTENSION
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 248+40 RT.
DROP INLET H = 3'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 96 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 96 LIN. FT.

STA. 247+65 IN PLACE
18" X 16' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 248+40 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 262' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 251+05 RT.
DROP INLET H = 3'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 262 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 262 LIN. FT.

STA. 251+05 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 122' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 252+30 RT.
DROP INLET H = 4'-0"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 122 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 122 LIN. FT.

STA. 251+36 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 252+30 CONSTRUCT
DROP INLET ON RT. W/OPENING IN BACK
AND 22" X 14" X 148' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 253+82 RT.
DROP INLET H = 3'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 148 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 148 LIN. FT.

STA. 252+61 IN PLACE
15" X 30' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 253+82 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 44' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 254+30 RT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
29" X 18" R.C. PIPE (CLASS III)(TYPE 3) = 44 LIN. FT.
29" X 18" SLPCCS (TYPE 2) = 44 LIN. FT.

STA. 254+20 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 254+80 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 254+30 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 40' PIPE OUTLET W/F.E.S.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
29" X 18" R.C. PIPE (CLASS III)(TYPE 3) = 40 LIN. FT.
29" X 18" SLPCCS (TYPE 2) = 40 LIN. FT.
29" X 18" F.E.S. = 1EACH

STA. 254+50 IN PLACE
C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 10 CU. YD.

STA. 255+45 CONSTRUCT
DROP INLET ON RT.
AND 18" X 2' PIPE INLET W/F.E.S.
DROP INLET H = 3'-1"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III)(TYPE 3) = 2 LIN. FT.
18" F.E.S. = 1EACH

STA. 255+73 IN PLACE
18" X 17' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 256+20 CONSTRUCT
DROP INLET ON RT. W/4' EXTENSION LT. AND RT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 72' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 256+95 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III)(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1EACH
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 72 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 72 LIN. FT.

STA. 256+66 IN PLACE
18" X 24' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 256+95 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 60' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 257+58 RT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 60 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 60 LIN. FT.

STA. 257+31 IN PLACE
18" X 20' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 257+58 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 94' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 258+55 RT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 94 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 94 LIN. FT.

STA. 257+85 IN PLACE
18" X 25' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 258+28 IN PLACE
18" X 25' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

STA. 258+55 CONSTRUCT
DROP INLET ON RT. W/4' EXTENSION
AND 22" X 14" X 20' ARCH PIPE OUTLET W/F.E.S.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 20 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 20 LIN. FT.
22" X 14" F.E.S. = 1EACH

STA. 258+63 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 258+94 IN PLACE
18" X 30' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 15 CU. YD.

STA. 259+23 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 259+40 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 56' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 260+00 RT.
DROP INLET H = 3'-9"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 56 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 56 LIN. FT.

STA. 260+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 56' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 260+60 RT.
DROP INLET H = 3'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 56 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 56 LIN. FT.

245 250 255 260

S89°35'50"E

PROP. R/W CONST. LIMITS

S. HEMLOCK ST. S. PERSIMMON ST.

MATTHEW'S AUTO REPAIR

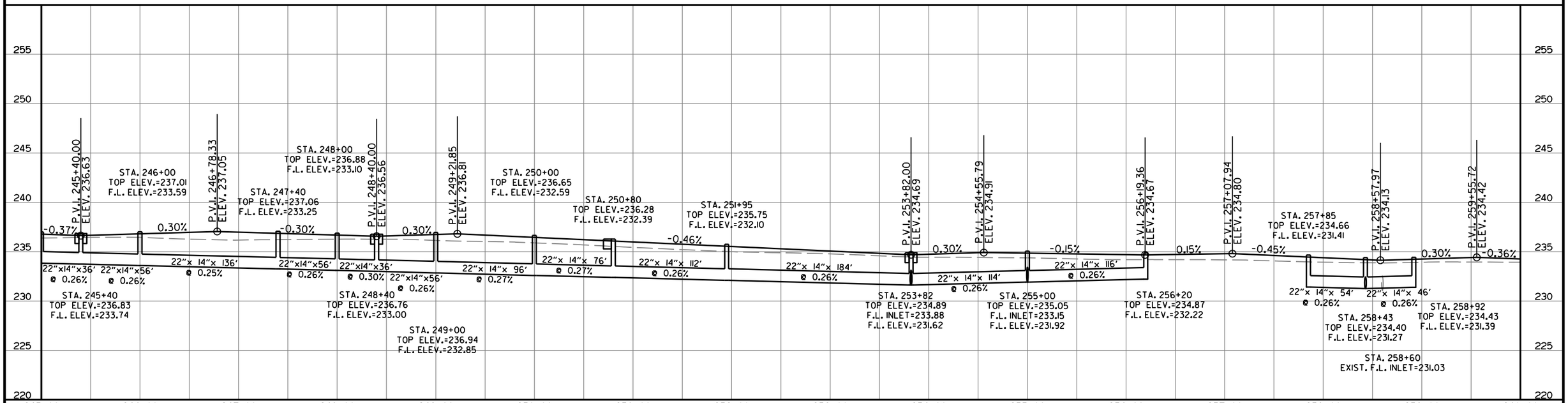
HWY. 190 EAST

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	67	168
		PLAN AND PROFILE SHEETS				

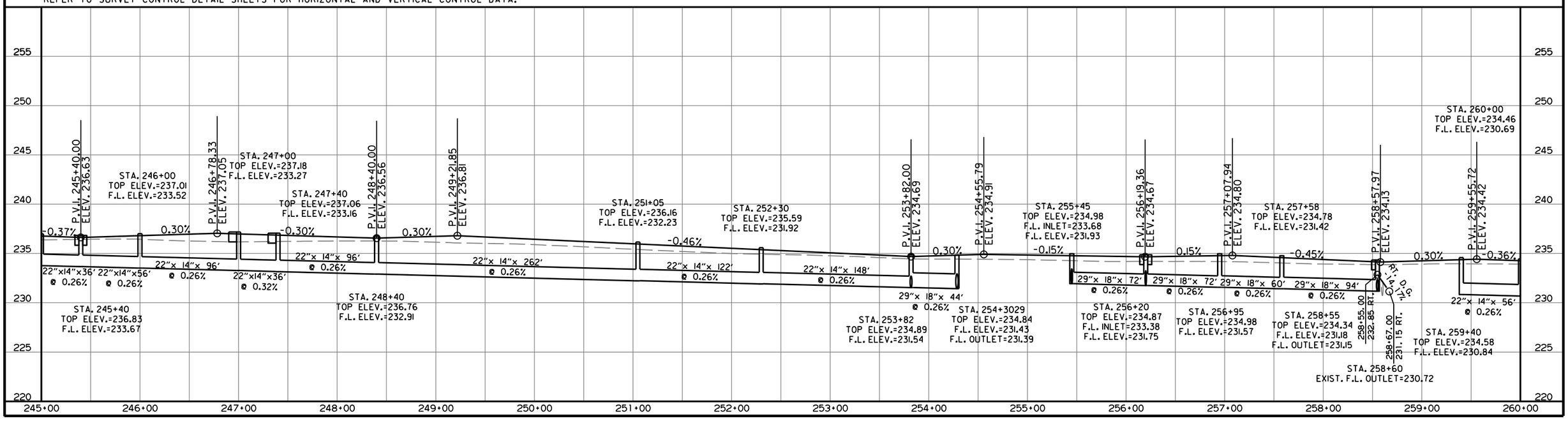
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

LEFT SIDE OF HWY. 190 EAST



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

RIGHT SIDE OF HWY. 190 EAST



RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	68	168
		PLAN AND PROFILE SHEETS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

N

STA. 261+25 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 116' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 262+45 LT.
DROP INLET H = 3'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 116 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 116 LIN. FT.

STA. 262+45 CONSTRUCT
DROP INLET ON LT. W/4' EXTENSION
AND 22" X 14" X 28' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 262+75 LT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 28 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 28 LIN. FT.

STA. 262+61 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 262+75 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 32' ARCH PIPE OUTLET W/F.E.S.
DROP INLET H = 2'-11"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 32 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 32 LIN. FT.
22" X 14" F.E.S. = 1EACH

STA. 262+92 CONSTRUCT
TURNOUT ON LT. = 5 CU. YD.

STA. 263+21 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 263+59 CONSTRUCT
APPROACH ON LT. = 5 CU. YD. UNC. EXC.

STA. 264+15 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 50' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 264+68 LT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 50 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 50 LIN. FT.

STA. 264+41 IN PLACE
18" X 32' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD. UNC. EXC.

STA. 264+68 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 74' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 265+45 LT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 74 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 74 LIN. FT.

STA. 264+95 IN PLACE
18" X 20' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 265+45 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 86' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 266+35 LT.
DROP INLET H = 3'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 86 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 86 LIN. FT.

STA. 265+58 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 265+88 IN PLACE
12" X 30' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 5 CU. YD.

STA. 266+18 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 266+35 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 61' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 266+90 LT.
DROP INLET H = 3'-3"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 62 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 62 LIN. FT.

STA. 266+61 IN PLACE
21" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE

STA. 266+75 CONSTRUCT
APPROACH ON LT. = 5 CU. YD.

STA. 267+00 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 22" X 14" X 141' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 268+45 LT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 142 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 142 LIN. FT.

STA. 00+70.00 CONSTRUCT
TURNOUT ON RT. = 5 CU. YD.

STA. 268+45 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 64' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 269+10 LT.
DROP INLET H = 3'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III)(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1EACH
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 64 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 64 LIN. FT.

STA. 268+85 CONSTRUCT
TURNOUT ON LT. = 10 CU. YD.

STA. 268+55 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 269+03 IN PLACE
24" X 40' R.C. PIPE CULVERT
REMOVE 10' LT. AND 4' RT.
PLUG AND ABANDON

STA. 269+10 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 12' ARCH PIPE OUTLET W/F.E.S.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 12 LIN. FT.
22" X 14" ASPHALT CSP (TYPE 2) = 12 LIN. FT.
22" X 14" ALUMIMUM CSP (TYPE 2) = 12 LIN. FT.
22" X 14" PCCS (TYPE 2) = 12 LIN. FT.
22" X 14" F.E.S. = 1EACH

STA. 269+15 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 269+40 CONSTRUCT
DROP INLET ON LT.
AND 29" X 18" X 132' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 270+75 LT.
DROP INLET H = 2'-10"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 132 LIN. FT.
29" X 18" SLPCCS ARCH PIPE (TYPE 2) = 132 LIN. FT.

STA. 269+89 IN PLACE
18" X 32' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 270+75 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 29" X 18" X 66' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 271+45 LT.
DROP INLET H = 3'-3"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 66 LIN. FT.
29" X 18" SLPCCS ARCH PIPE (TYPE 2) = 66 LIN. FT.

STA. 271+02 IN PLACE
18" X 24' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 271+45 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 29" X 18" X 32' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 271+45 RT.
DROP INLET H = 3'-3"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. PIPE (CLASS V)(TYPE 3) = 32 LIN. FT.
29" X 18" ASPHALT CSP (TYPE 2) = 32 LIN. FT.
29" X 18" ALUMIMUM CSP (TYPE 2) = 32 LIN. FT.
29" X 18" PCCS (TYPE 2) = 32 LIN. FT.

STA. 271+57 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 271+72 IN PLACE
12" X 32' R.C. PIPE CULVERT
PLUG AND ABANDON

STA. 271+85 CONSTRUCT
APPROACH ON LT. = 5 CU. YD.

STA. 272+13 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 272+40 CONSTRUCT
DROP INLET ON LT.
AND 29" X 18" X 86' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 273+30 LT.
DROP INLET H = 3'-1"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 86 LIN. FT.
29" X 18" SLPCCS ARCH PIPE (TYPE 2) = 86 LIN. FT.

STA. 273+05 IN PLACE
18" X 21' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 273+30 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 29" X 18" X 112' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 274+45 LT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 112 LIN. FT.
29" X 18" SLPCCS ARCH PIPE (TYPE 2) = 112 LIN. FT.

STA. 273+69 IN PLACE
18" X 41' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 274+45 CONSTRUCT
DROP INLET ON LT.
AND 29" X 18" X 118' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 275+67 LT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 118 LIN. FT.
29" X 18" SLPCCS ARCH PIPE (TYPE 2) = 118 LIN. FT.

STA. 274+57 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 274+87 CONSTRUCT
TURNOUT ON LT. = 10 CU. YD.

HWY. 190 EAST
PI = 264+75.93
Δ = 0°11'39"LT.
D = 0°30'00"
T = 19.43'
L = 38.87'
PC = 264+56.50
PT = 264+95.37
NO SUPER

STA. 00+00.00 S. PECAN ST.=
STA. 265+88.00 HWY. 190 EAST
Δ = 90°00'00"

S. PERSIMMON ST. 260 | S. PEAR ST. 265 | S. APPLE ST. 270 | S. FIG ST. | S. OLEANDER ST. 275

S89°35'50"E | S89°47'29"E

CONST. LIMITS | PROP. R/W | EXIST. ROW

STA.	STA.	SIDE	TYPE	LIN. FT.
261+04	261+44	RT	4' CHAIN LINK	38
261+61	262+37	RT	4' CHAIN LINK	75
262+97	263+15	RT	4' CHAIN LINK	19
273+78	274+67	RT	4' CHAIN LINK	88

STA. 260+26 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 260+60 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 62' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 261+25 RT.
DROP INLET H = 3'-9"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 62 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 62 LIN. FT.

STA. 260+90 IN PLACE
18" X 25' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 261+25 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 132' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 262+60 RT.
DROP INLET H = 3'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 132 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 132 LIN. FT.

STA. 261+53 IN PLACE
18" X 40' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 262+60 CONSTRUCT
DROP INLET ON RT. W/OPENING IN BACK
AND 22" X 14" X 162' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 264+25 RT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 162 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 162 LIN. FT.

STA. 262+88 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 263+35 IN PLACE
12" X 30' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

STA. 264+25 CONSTRUCT
DROP INLET ON RT. W/8' EXTENSION
AND 22" X 14" X 162' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 265+90 RT.
DROP INLET H = 3'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 162 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 162 LIN. FT.

STA. 264+54 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 264+98 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 265+90 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 52' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 266+45 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 52 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 52 LIN. FT.

STA. 266+17 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 266+45 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 76' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 267+25 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 76 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 76 LIN. FT.

STA. 266+97 IN PLACE
18" X 16' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 267+25 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 116' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 268+45 RT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 116 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 116 LIN. FT.

STA. 267+54 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 267+84 IN PLACE
18" X 30' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 15 CU. YD.

STA. 268+14 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 268+45 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 62' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 269+10 RT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 62 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 62 LIN. FT.

STA. 268+75 IN PLACE
18" X 17' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 269+10 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 36' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 269+10 LT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS IV)(TYPE 3) = 36 LIN. FT.
22" X 14" ASPHALT CSP (TYPE 2) = 36 LIN. FT.
22" X 14" ALUMIMUM CSP (TYPE 2) = 36 LIN. FT.
22" X 14" PCCS (TYPE 2) = 36 LIN. FT.

STA. 269+36 IN PLACE
18" X 17' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 269+76 IN PLACE
18" X 17' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 270+00 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 271+00 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. PIPE (CLASS III)(TYPE 3) = 96 LIN. FT.
29" X 18" SLPCCS PIPE (TYPE 2) = 96 LIN. FT.

STA. 271+00 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 40' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 271+45 RT.
DROP INLET H = 3'-3"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. PIPE (CLASS III)(TYPE 3) = 40 LIN. FT.
29" X 18" SLPCCS PIPE (TYPE 2) = 40 LIN. FT.

STA. 271+45 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 90' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 272+40 RT.
DROP INLET H = 3'-3"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 90 LIN. FT.
29" X 18" SLPCCS ARCH PIPE (TYPE 2) = 90 LIN. FT.

STA. 271+59 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 271+87 IN PLACE
24" X 24' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 5 CU. YD.

STA. 272+15 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 272+40 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 72' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 273+15 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 72 LIN. FT.
29" X 18" SLPCCS ARCH PIPE (TYPE 2) = 72 LIN. FT.

SPECIAL FLOOD HAZARD AREA

STA. 272+86 IN PLACE
15" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 273+15 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 29" X 18" X 126' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 274+45 RT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'

STA. 273+43 IN PLACE
18" X 24' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 273+83 IN PLACE
18" X 24' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA. 274+57 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON RT.
= 5.4 SQ. YDS.

STA. 274+45 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 118' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 275+67 RT.
DROP INLET H = 3'-8"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 118 LIN. FT.
29" X 18" SLPCCS ARCH PIPE (TYPE 2) = 118 LIN. FT.

STA. 274+87 IN PLACE
18" X 30' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
TURNOUT = 5 CU. YD.

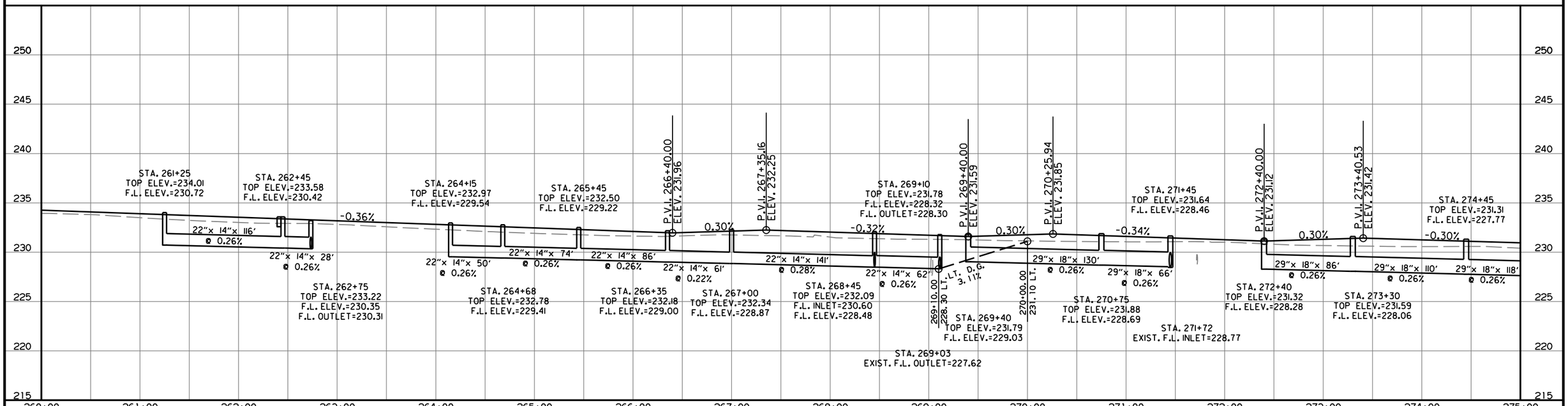
HWY. 190 EAST

RB43088 8/7/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	69	168
		PLAN AND PROFILE SHEETS				

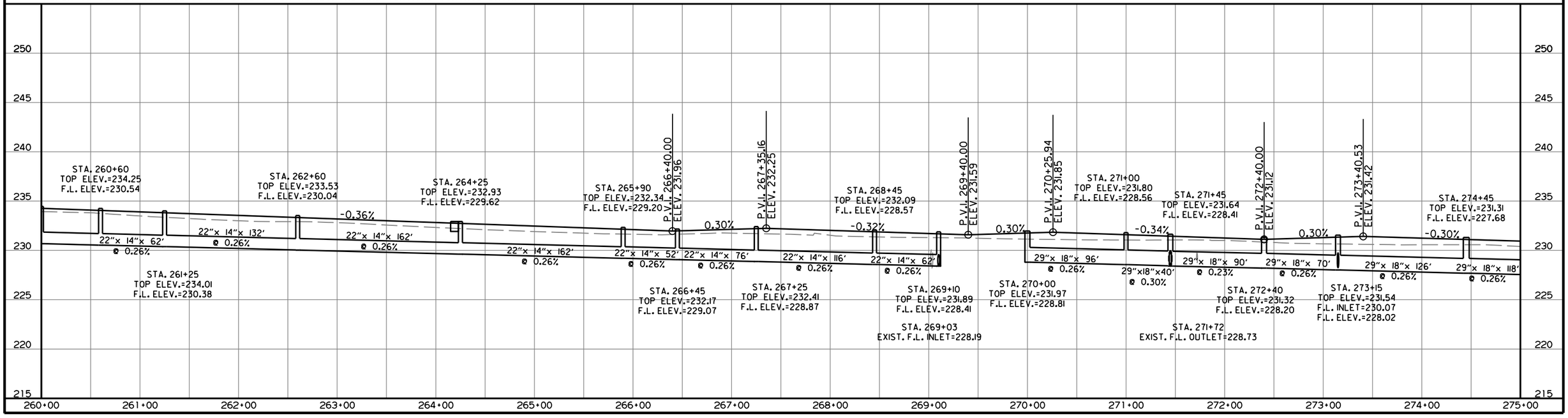
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

LEFT SIDE OF HWY. 190 EAST



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

RIGHT SIDE OF HWY. 190 EAST



RB43088 6/5/2025
RO20628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/07/2025		6	ARK.	020628	70	168
		PLAN AND PROFILE SHEETS				

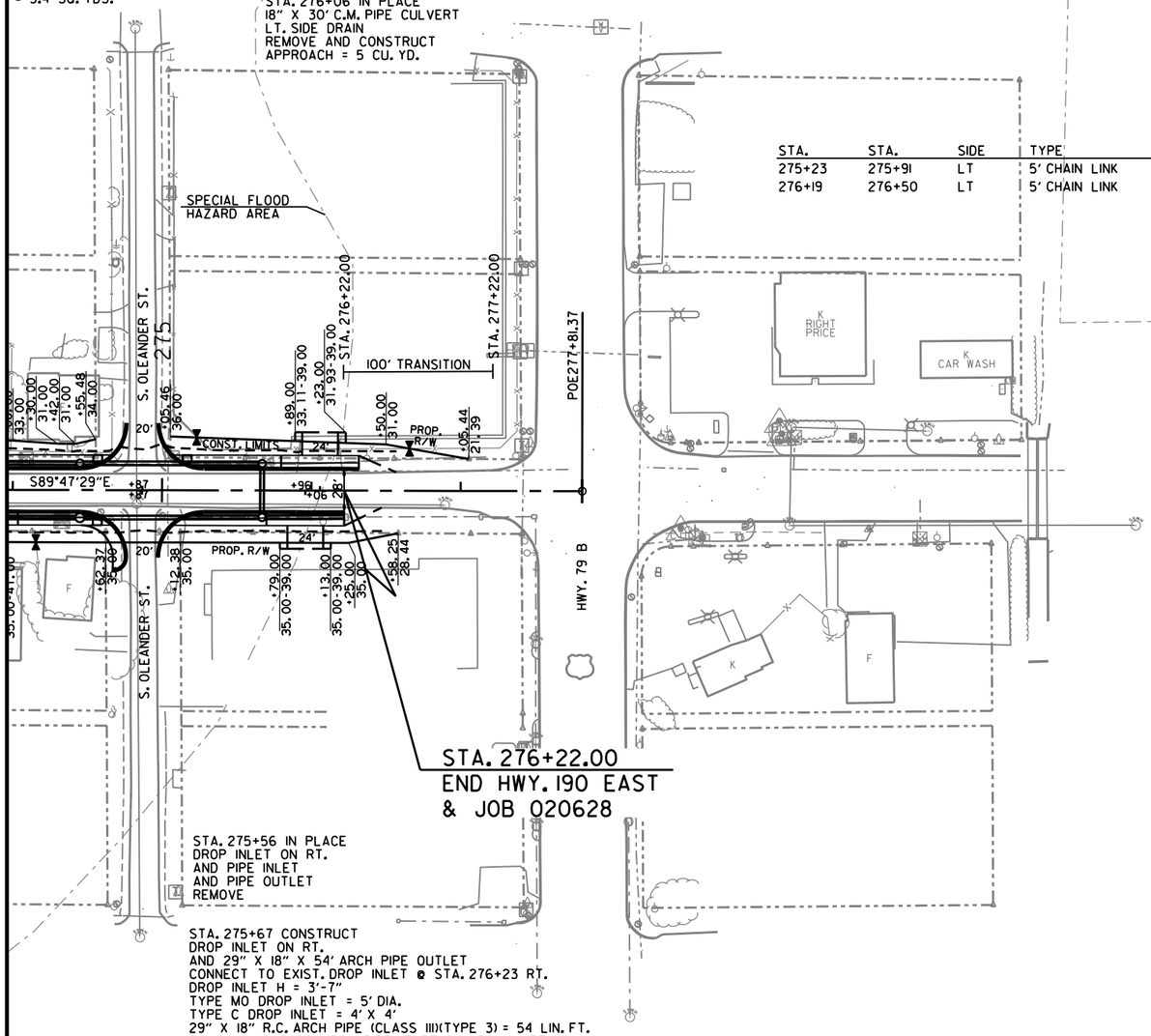
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
08/07/2025

STA. 275+67 CONSTRUCT
DROP INLET ON LT. W/OPENING IN BACK
AND 29" X 18" X 32' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 275+67 LT.
DROP INLET H = 3'-6"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. PIPE (CLASS V)(TYPE 3) = 32 LIN. FT.
29" X 18" ASPHALT CSP (TYPE 2) = 32 LIN. FT.
29" X 18" ALUMIMUM CSP (TYPE 2) = 32 LIN. FT.
29" X 18" PCCS (TYPE 2) = 32 LIN. FT.

STA. 275+17 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP ON LT.
= 5.4 SQ. YDS.

STA. 276+06 IN PLACE
18" X 30' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

STA.	STA.	SIDE	TYPE	LIN. FT.
275+23	275+91	LT	5' CHAIN LINK	67
276+19	276+50	LT	5' CHAIN LINK	31



STA. 276+22.00
END HWY. 190 EAST
& JOB 020628

STA. 275+56 IN PLACE
DROP INLET ON RT.
AND PIPE INLET
AND PIPE OUTLET
REMOVE

STA. 275+67 CONSTRUCT
DROP INLET ON RT.
AND 29" X 18" X 54' ARCH PIPE OUTLET
CONNECT TO EXIST. DROP INLET @ STA. 276+23 RT.
DROP INLET H = 3'-7"
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 4' X 4'
29" X 18" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 54 LIN. FT.
29" X 18" SLPCCS ARCH PIPE (TYPE 2) = 54 LIN. FT.

STA. 275+96 CONSTRUCT
APPROACH ON RT. = 5 CU. YD.

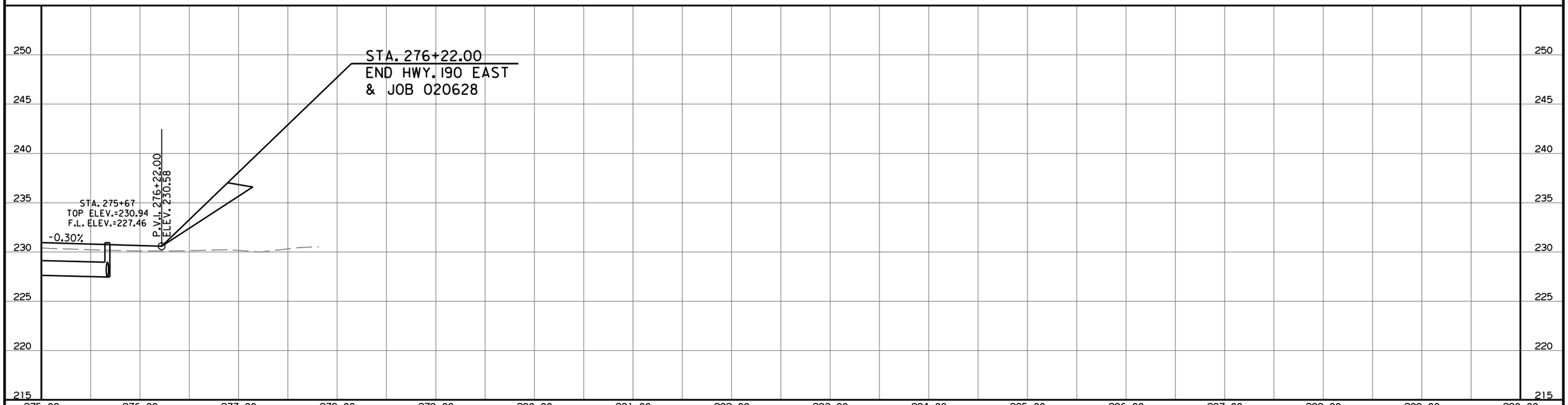
HWY. 190 EAST

RB43088 8/7/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	71	168
		PLAN AND PROFILE SHEETS				

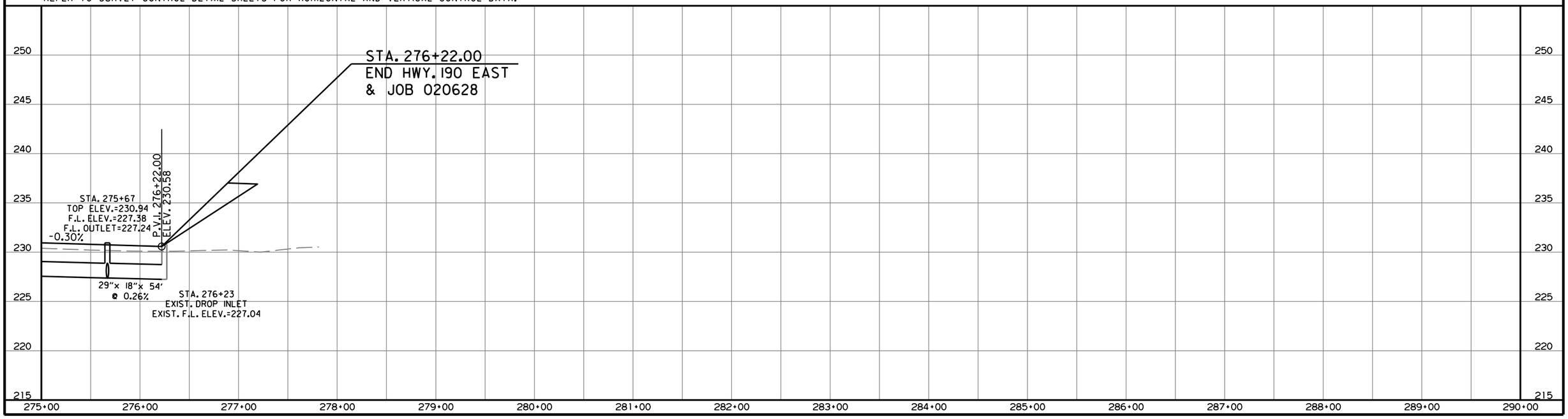
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15158
DAVID WILLIAM BAKER, IV
06/13/2025

LEFT SIDE OF HWY. 190 EAST



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

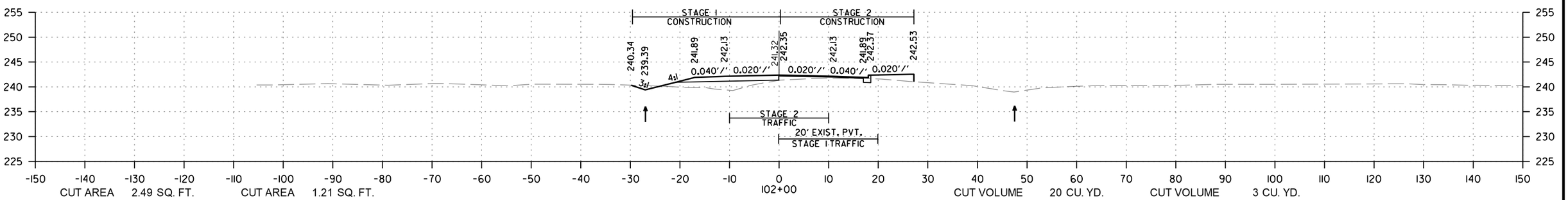
RIGHT SIDE OF HWY. 190 EAST



RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

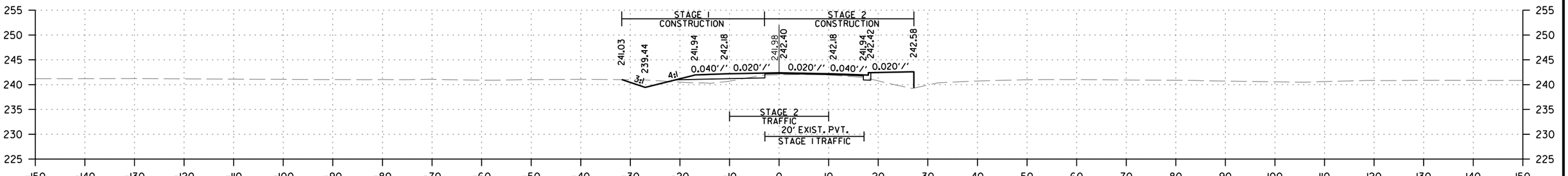
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	72	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



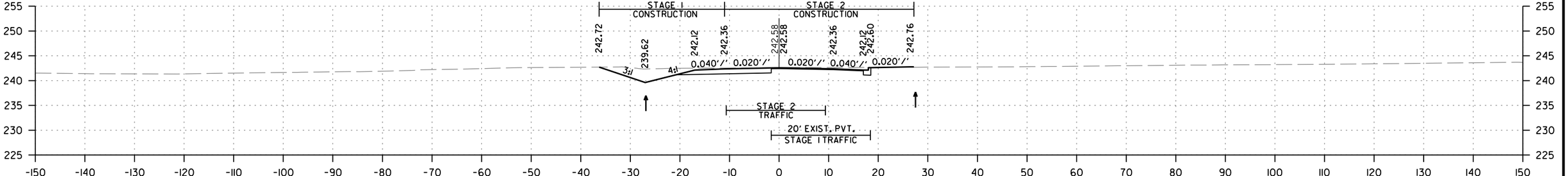
CUT AREA 2.49 SQ. FT. CUT AREA 1.21 SQ. FT.
FILL AREA 24.55 SQ. FT. FILL AREA 9.38 SQ. FT.

CUT VOLUME 20 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 61 CU. YD. FILL VOLUME 56 CU. YD.



CUT AREA 8.52 SQ. FT. CUT AREA 0.57 SQ. FT.
FILL AREA 8.36 SQ. FT. FILL AREA 20.82 SQ. FT.

CUT VOLUME 106 CU. YD. CUT VOLUME 19 CU. YD.
FILL VOLUME 15 CU. YD. FILL VOLUME 39 CU. YD.



CUT AREA 48.66 SQ. FT. CUT AREA 9.52 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0.22 SQ. FT.

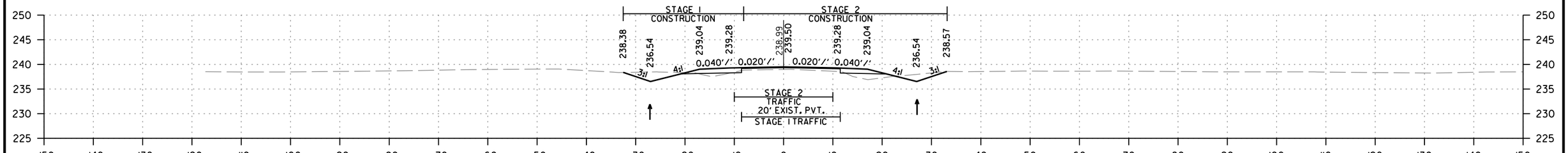
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.

HWY. 190 NORTH
STA. 100+00 TO STA. 102+00

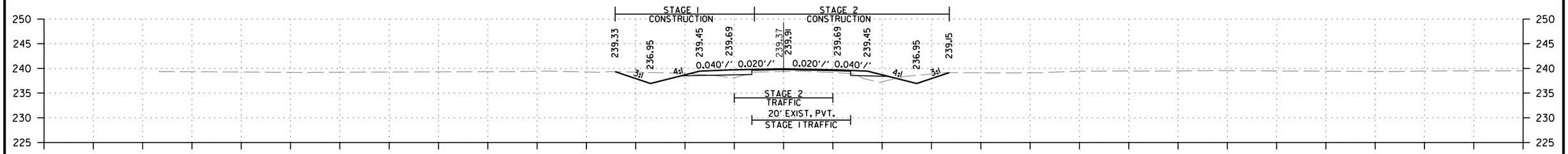
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	73	168
		CROSS SECTIONS				

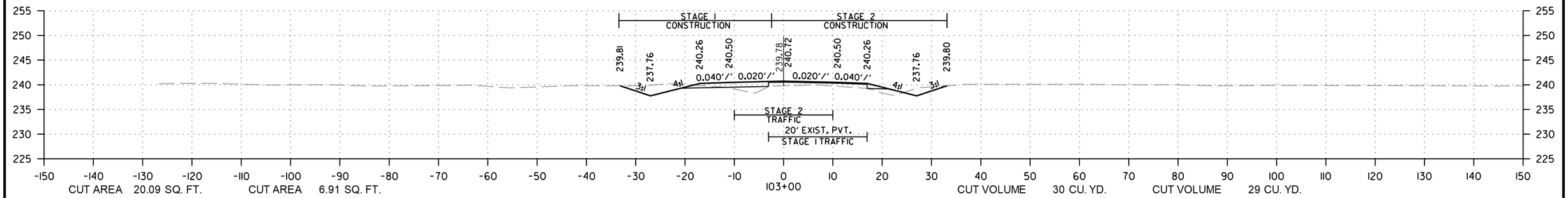
STAGE 1 STAGE 2 STAGE 1 STAGE 2



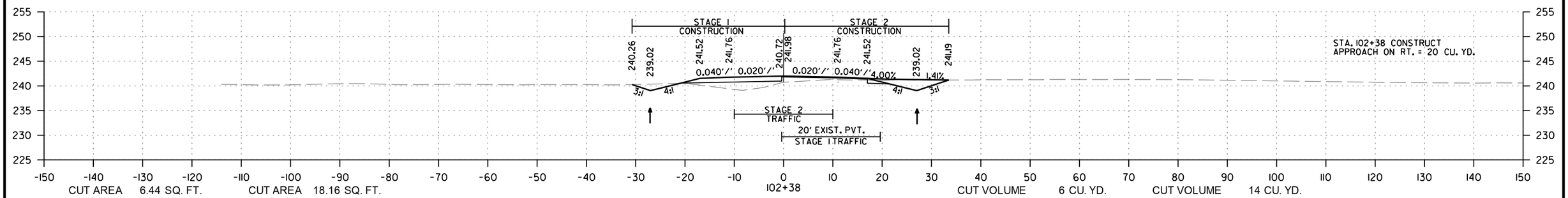
CUT AREA	13.51 SQ. FT.	CUT AREA	7.63 SQ. FT.
FILL AREA	2.43 SQ. FT.	FILL AREA	7.77 SQ. FT.
CUT VOLUME	60 CU. YD.	CUT VOLUME	32 CU. YD.
FILL VOLUME	9 CU. YD.	FILL VOLUME	25 CU. YD.



CUT AREA	18.66 SQ. FT.	CUT AREA	9.76 SQ. FT.
FILL AREA	2.28 SQ. FT.	FILL AREA	5.78 SQ. FT.
CUT VOLUME	72 CU. YD.	CUT VOLUME	31 CU. YD.
FILL VOLUME	15 CU. YD.	FILL VOLUME	19 CU. YD.



CUT AREA	20.09 SQ. FT.	CUT AREA	6.91 SQ. FT.
FILL AREA	5.68 SQ. FT.	FILL AREA	4.68 SQ. FT.
CUT VOLUME	30 CU. YD.	CUT VOLUME	29 CU. YD.
FILL VOLUME	29 CU. YD.	FILL VOLUME	5 CU. YD.



STA. 102+38 CONSTRUCT APPROACH ON RT. = 20 CU. YD.

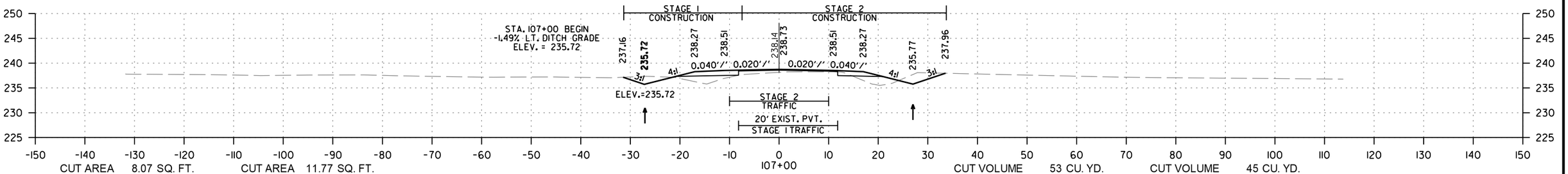
CUT AREA	6.44 SQ. FT.	CUT AREA	18.16 SQ. FT.
FILL AREA	19.69 SQ. FT.	FILL AREA	0 SQ. FT.
CUT VOLUME	6 CU. YD.	CUT VOLUME	14 CU. YD.
FILL VOLUME	31 CU. YD.	FILL VOLUME	7 CU. YD.

HWY. 190 NORTH
STA. 102+38 TO STA. 105+00

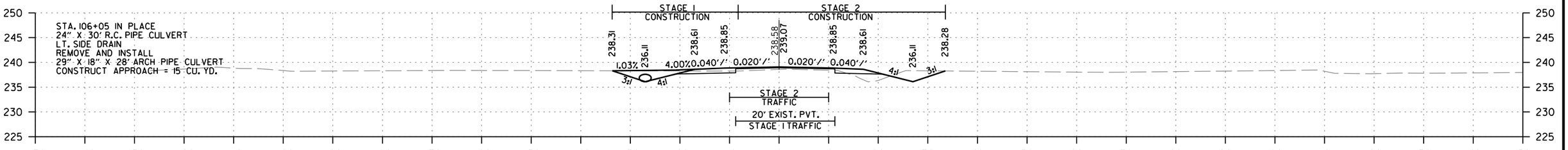
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	74	168
		CROSS SECTIONS				

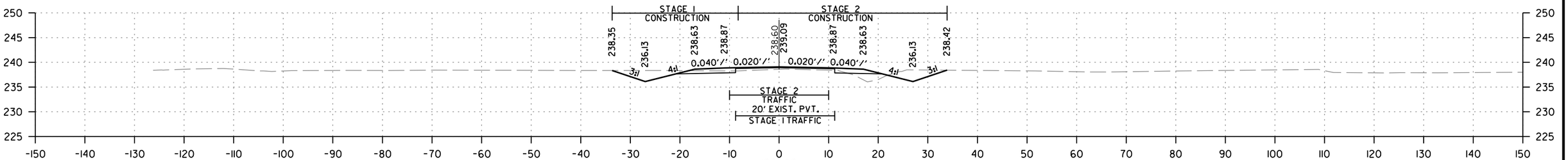
STAGE 1 STAGE 2 STAGE 1 STAGE 2



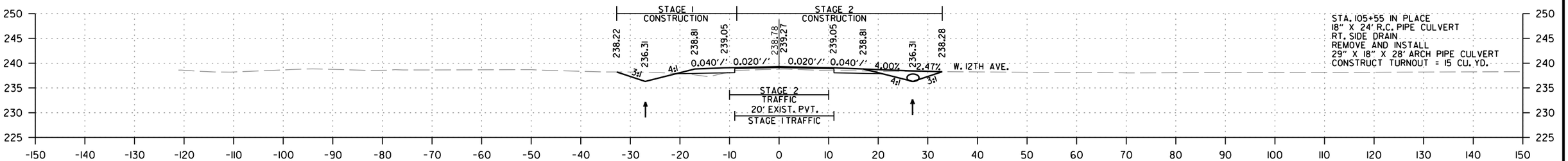
CUT AREA 8.07 SQ. FT. CUT AREA 11.77 SQ. FT. CUT VOLUME 53 CU. YD. CUT VOLUME 45 CU. YD.
FILL AREA 10.74 SQ. FT. FILL AREA 9.78 SQ. FT. FILL VOLUME 19 CU. YD. FILL VOLUME 31 CU. YD.



CUT AREA 22.02 SQ. FT. CUT AREA 14.02 SQ. FT. CUT VOLUME 4 CU. YD. CUT VOLUME 3 CU. YD.
FILL AREA 0 SQ. FT. FILL AREA 8.06 SQ. FT. FILL VOLUME 0 CU. YD. FILL VOLUME 1 CU. YD.



CUT AREA 22.44 SQ. FT. CUT AREA 15.65 SQ. FT. CUT VOLUME 29 CU. YD. CUT VOLUME 28 CU. YD.
FILL AREA 0 SQ. FT. FILL AREA 7.33 SQ. FT. FILL VOLUME 3 CU. YD. FILL VOLUME 6 CU. YD.



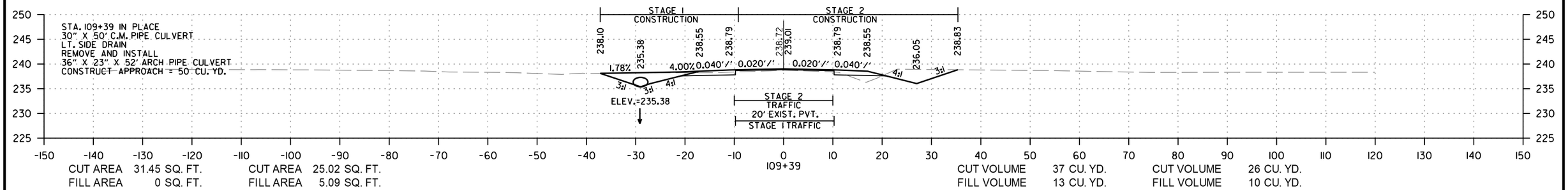
CUT AREA 11.81 SQ. FT. CUT AREA 18.42 SQ. FT. CUT VOLUME 26 CU. YD. CUT VOLUME 27 CU. YD.
FILL AREA 3.03 SQ. FT. FILL AREA 0 SQ. FT. FILL VOLUME 6 CU. YD. FILL VOLUME 8 CU. YD.

HWY. 190 NORTH
STA. 105+55 TO STA. 107+00

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

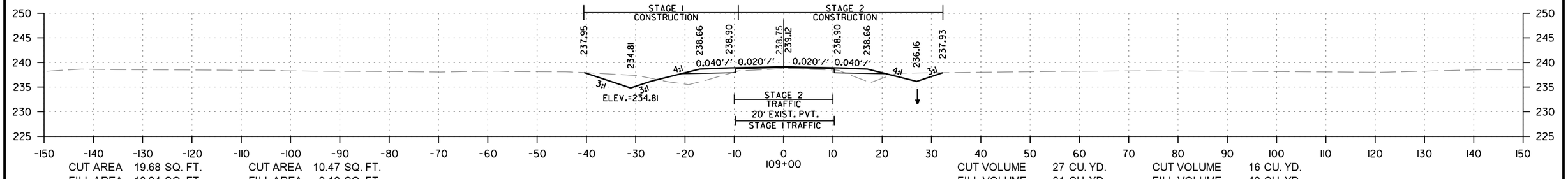
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	75	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



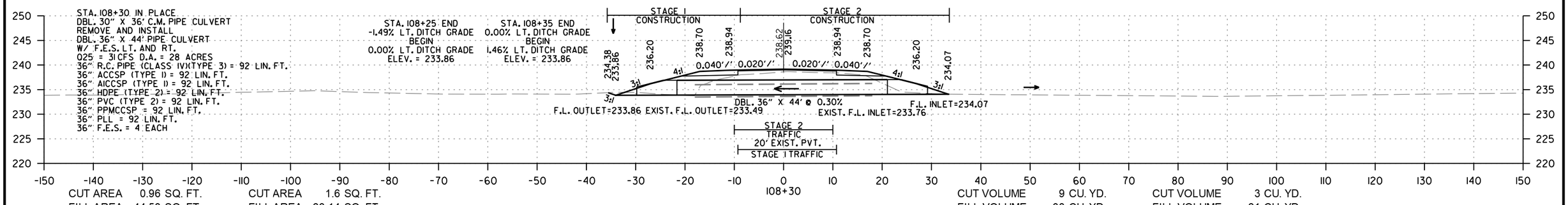
CUT AREA 31.45 SQ. FT. CUT AREA 25.02 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 5.09 SQ. FT.

CUT VOLUME 37 CU. YD. CUT VOLUME 26 CU. YD.
FILL VOLUME 13 CU. YD. FILL VOLUME 10 CU. YD.



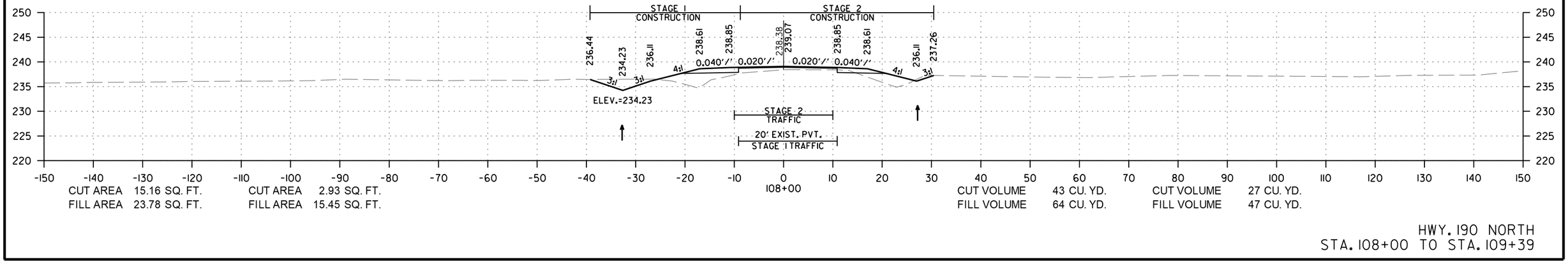
CUT AREA 19.68 SQ. FT. CUT AREA 10.47 SQ. FT.
FILL AREA 18.24 SQ. FT. FILL AREA 9.12 SQ. FT.

CUT VOLUME 27 CU. YD. CUT VOLUME 16 CU. YD.
FILL VOLUME 81 CU. YD. FILL VOLUME 42 CU. YD.



CUT AREA 0.96 SQ. FT. CUT AREA 1.6 SQ. FT.
FILL AREA 44.58 SQ. FT. FILL AREA 23.14 SQ. FT.

CUT VOLUME 9 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 38 CU. YD. FILL VOLUME 21 CU. YD.



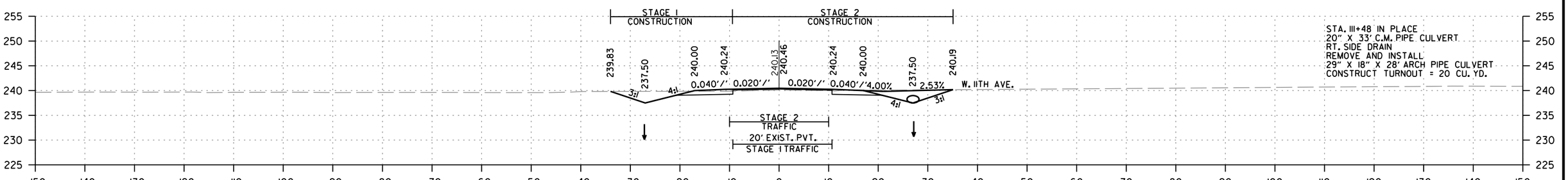
CUT AREA 15.16 SQ. FT. CUT AREA 2.93 SQ. FT.
FILL AREA 23.78 SQ. FT. FILL AREA 15.45 SQ. FT.

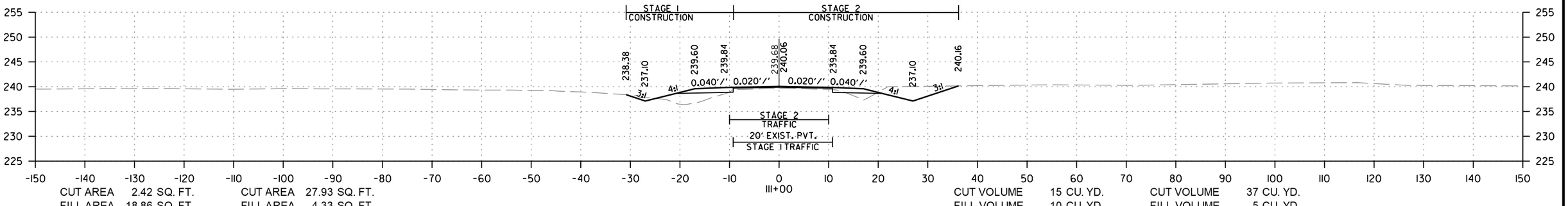
CUT VOLUME 43 CU. YD. CUT VOLUME 27 CU. YD.
FILL VOLUME 64 CU. YD. FILL VOLUME 47 CU. YD.

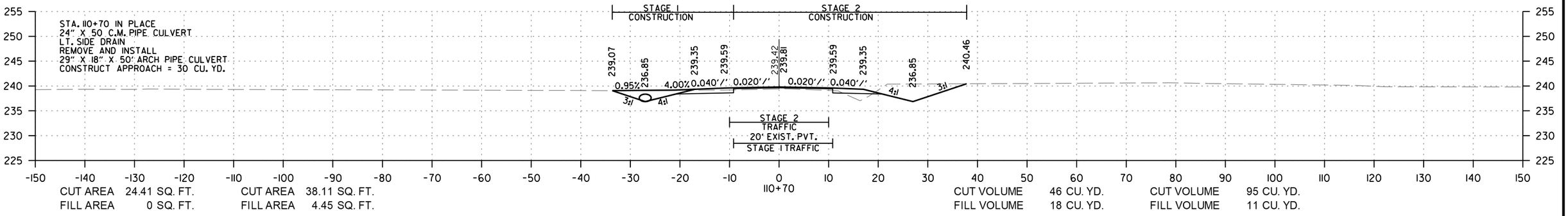
HWY. 190 NORTH
STA. 108+00 TO STA. 109+39

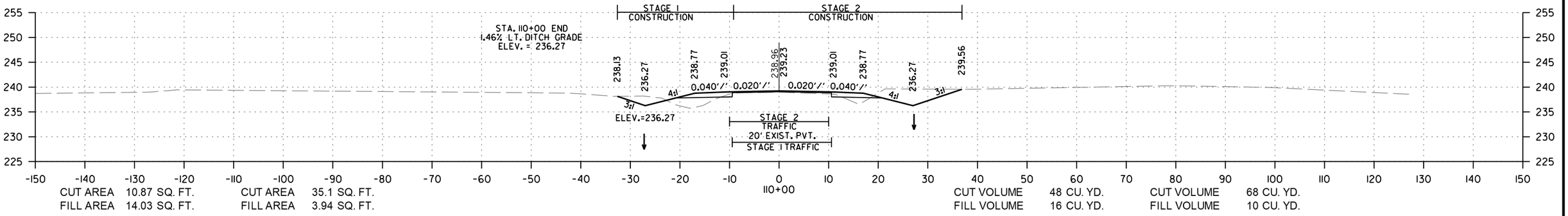
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	76	168
		CROSS SECTIONS				







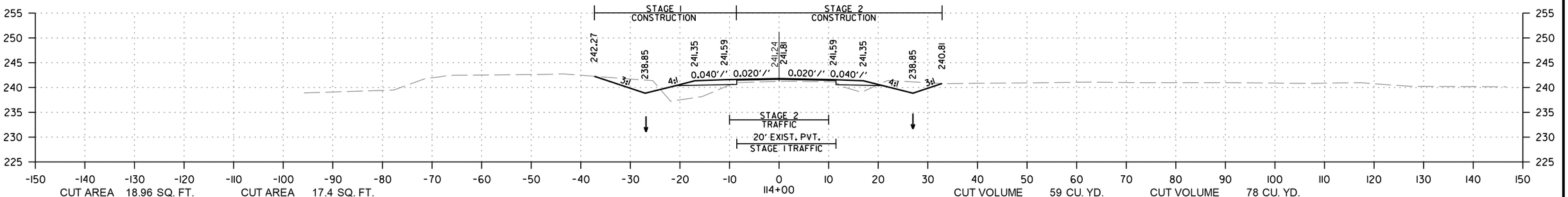


HWY. 190 NORTH
STA. 110+00 TO STA. 111+48

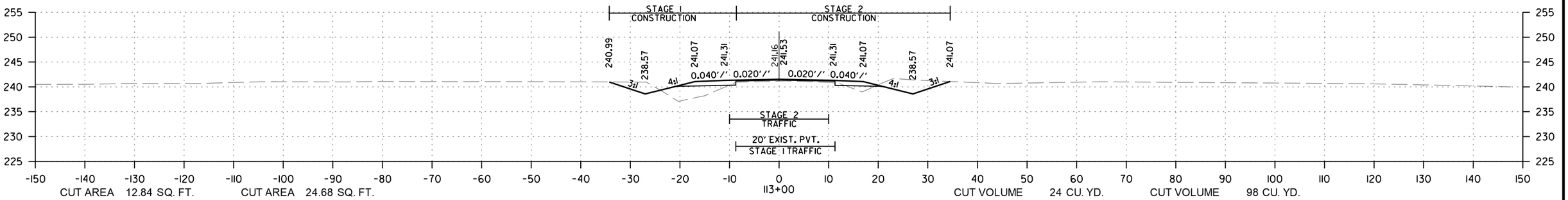
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	77	168
		CROSS SECTIONS				

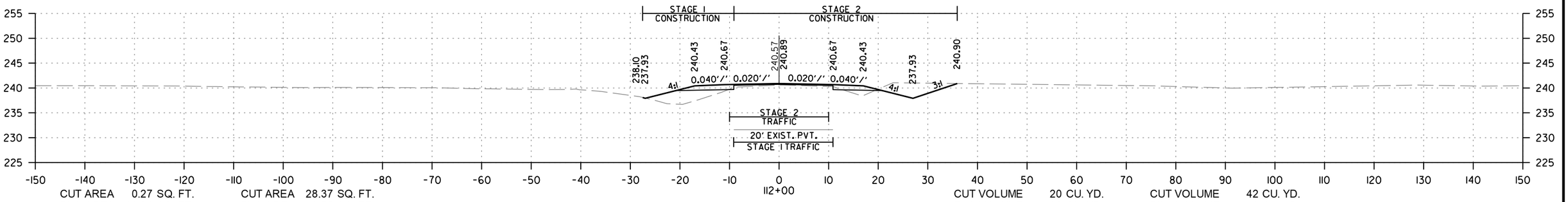
STAGE 1 STAGE 2 STAGE 1 STAGE 2



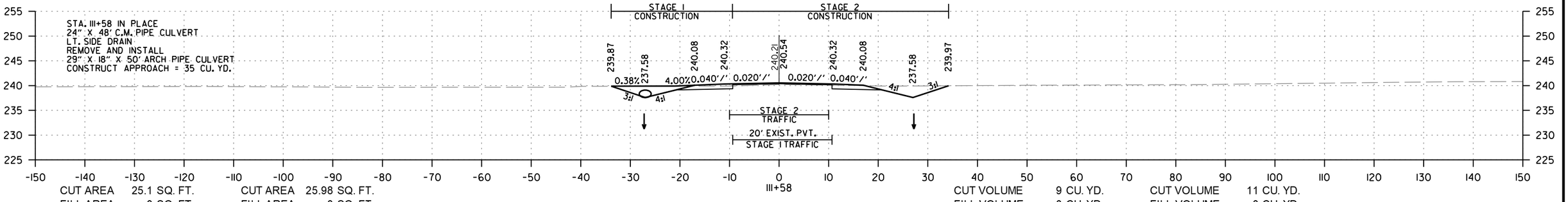
CUT AREA	18.96 SQ. FT.	CUT AREA	17.4 SQ. FT.	CUT VOLUME	59 CU. YD.	CUT VOLUME	78 CU. YD.
FILL AREA	27 SQ. FT.	FILL AREA	5.69 SQ. FT.	FILL VOLUME	94 CU. YD.	FILL VOLUME	17 CU. YD.



CUT AREA	12.84 SQ. FT.	CUT AREA	24.68 SQ. FT.	CUT VOLUME	24 CU. YD.	CUT VOLUME	98 CU. YD.
FILL AREA	23.92 SQ. FT.	FILL AREA	3.52 SQ. FT.	FILL VOLUME	93 CU. YD.	FILL VOLUME	13 CU. YD.



CUT AREA	0.27 SQ. FT.	CUT AREA	28.37 SQ. FT.	CUT VOLUME	20 CU. YD.	CUT VOLUME	42 CU. YD.
FILL AREA	26.24 SQ. FT.	FILL AREA	3.75 SQ. FT.	FILL VOLUME	20 CU. YD.	FILL VOLUME	3 CU. YD.



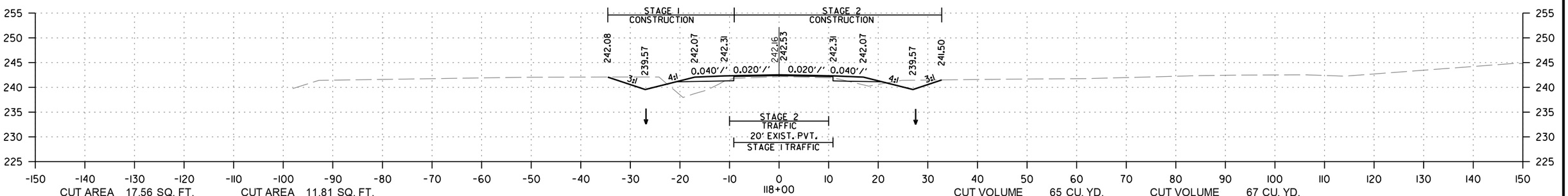
CUT AREA	25.1 SQ. FT.	CUT AREA	25.98 SQ. FT.	CUT VOLUME	9 CU. YD.	CUT VOLUME	11 CU. YD.
FILL AREA	0 SQ. FT.	FILL AREA	0 SQ. FT.	FILL VOLUME	0 CU. YD.	FILL VOLUME	0 CU. YD.

HWY. 190 NORTH
STA. 111+58 TO STA. 114+00

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R020628.DGN MicroStation v8.11.9.578

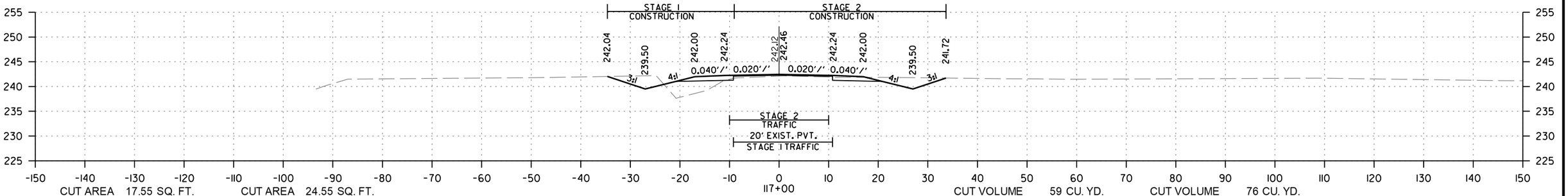
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	78	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



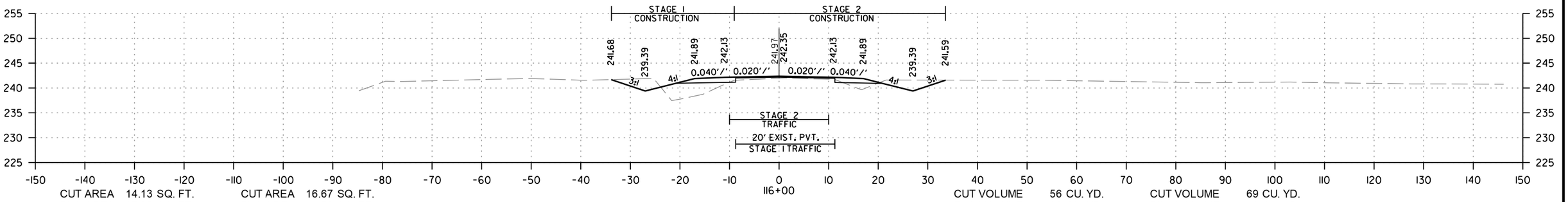
CUT AREA 17.56 SQ. FT. CUT AREA 11.81 SQ. FT.
FILL AREA 20.38 SQ. FT. FILL AREA 3.93 SQ. FT.

CUT VOLUME 65 CU. YD. CUT VOLUME 67 CU. YD.
FILL VOLUME 83 CU. YD. FILL VOLUME 7 CU. YD.



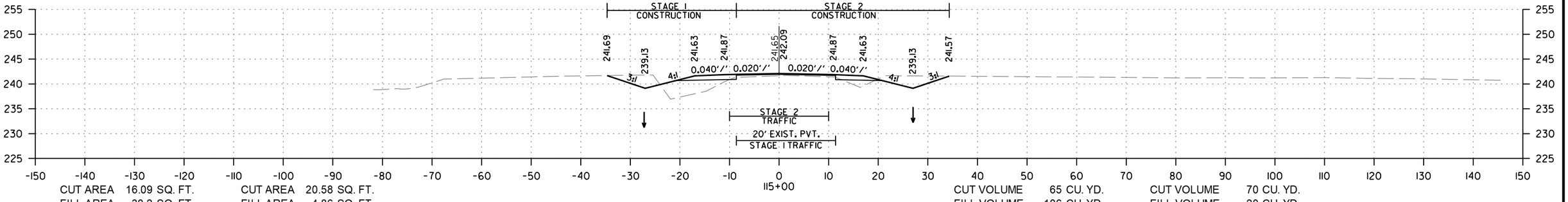
CUT AREA 17.55 SQ. FT. CUT AREA 24.55 SQ. FT.
FILL AREA 24.29 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 59 CU. YD. CUT VOLUME 76 CU. YD.
FILL VOLUME 97 CU. YD. FILL VOLUME 9 CU. YD.



CUT AREA 14.13 SQ. FT. CUT AREA 16.67 SQ. FT.
FILL AREA 27.97 SQ. FT. FILL AREA 4.78 SQ. FT.

CUT VOLUME 56 CU. YD. CUT VOLUME 69 CU. YD.
FILL VOLUME 108 CU. YD. FILL VOLUME 18 CU. YD.



CUT AREA 16.09 SQ. FT. CUT AREA 20.58 SQ. FT.
FILL AREA 30.2 SQ. FT. FILL AREA 4.86 SQ. FT.

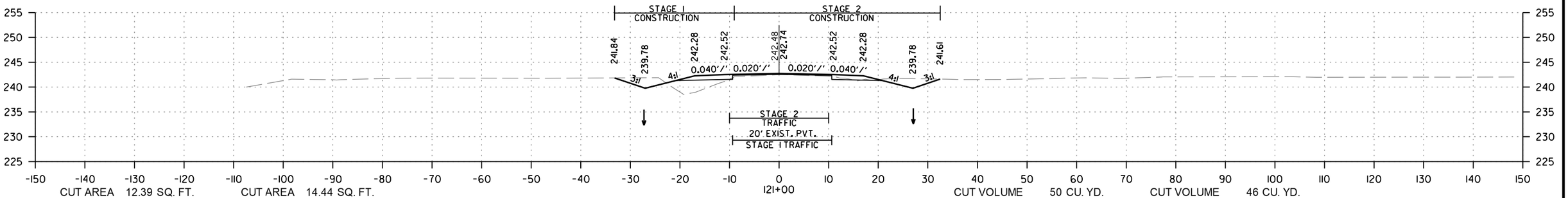
CUT VOLUME 65 CU. YD. CUT VOLUME 70 CU. YD.
FILL VOLUME 106 CU. YD. FILL VOLUME 20 CU. YD.

HWY. 190 NORTH
STA. 115+00 TO STA. 118+00

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	79	168
		CROSS SECTIONS				

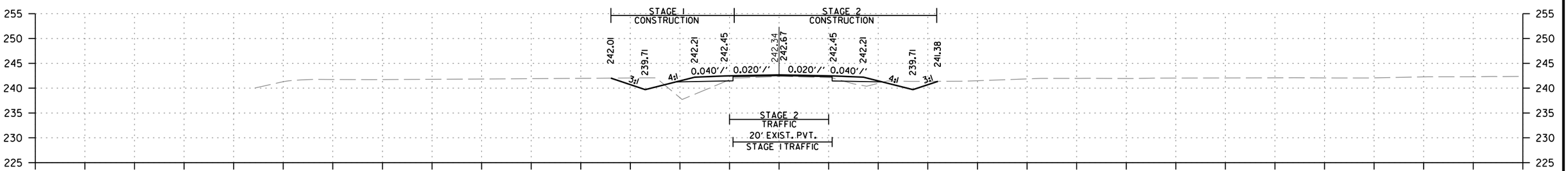
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 12.39 SQ. FT. CUT AREA 14.44 SQ. FT.
FILL AREA 20.01 SQ. FT. FILL AREA 0.14 SQ. FT.

121+00

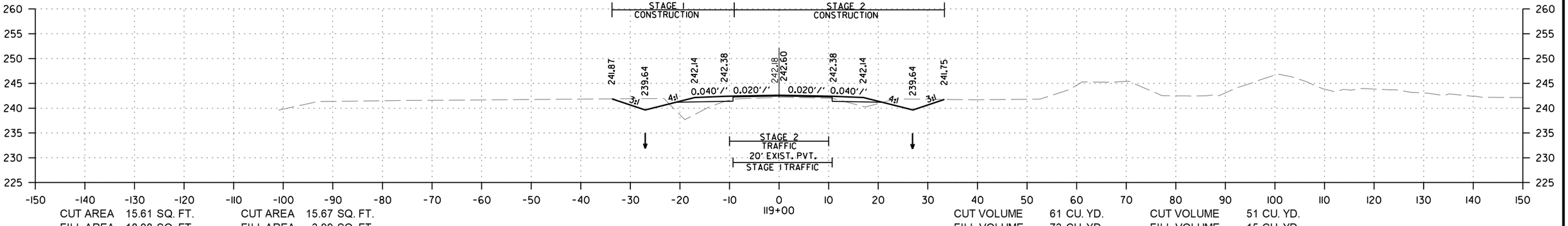
CUT VOLUME 50 CU. YD. CUT VOLUME 46 CU. YD.
FILL VOLUME 79 CU. YD. FILL VOLUME 8 CU. YD.



CUT AREA 14.55 SQ. FT. CUT AREA 10.53 SQ. FT.
FILL AREA 22.7 SQ. FT. FILL AREA 3.92 SQ. FT.

120+00

CUT VOLUME 56 CU. YD. CUT VOLUME 49 CU. YD.
FILL VOLUME 77 CU. YD. FILL VOLUME 15 CU. YD.



CUT AREA 15.61 SQ. FT. CUT AREA 15.67 SQ. FT.
FILL AREA 18.98 SQ. FT. FILL AREA 3.99 SQ. FT.

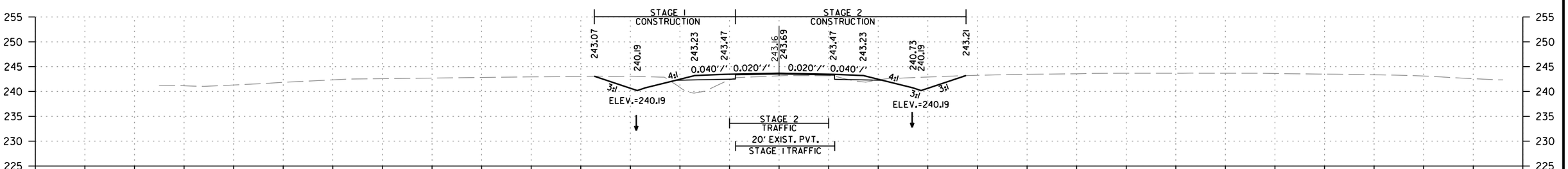
119+00

CUT VOLUME 61 CU. YD. CUT VOLUME 51 CU. YD.
FILL VOLUME 73 CU. YD. FILL VOLUME 15 CU. YD.

HWY. 190 NORTH
STA. 119+00 TO STA. 121+00

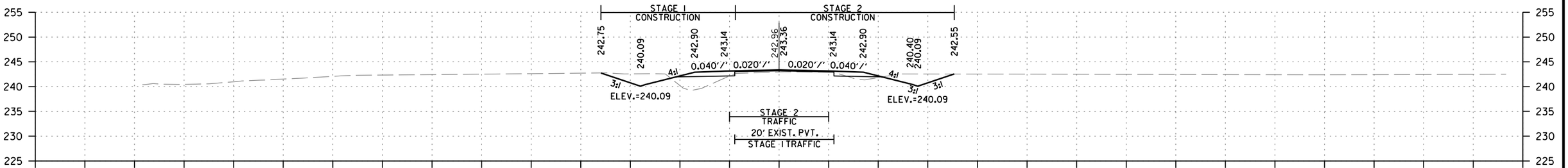
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	80	168
		CROSS SECTIONS				



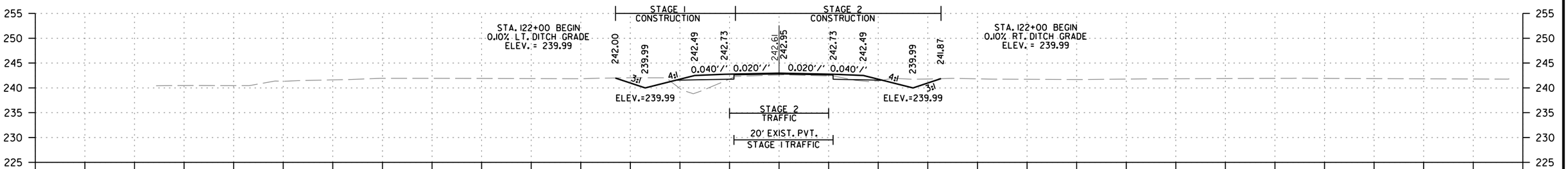
CUT AREA 24.07 SQ. FT. CUT AREA 24.31 SQ. FT.
FILL AREA 19.15 SQ. FT. FILL AREA 1.47 SQ. FT.

CUT VOLUME 81 CU. YD. CUT VOLUME 82 CU. YD.
FILL VOLUME 71 CU. YD. FILL VOLUME 8 CU. YD.



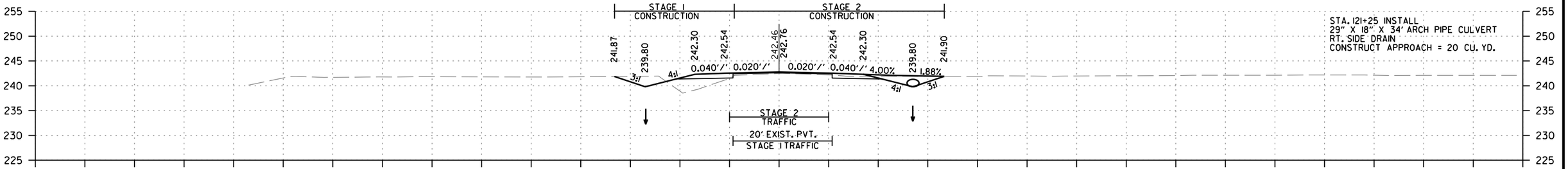
CUT AREA 19.62 SQ. FT. CUT AREA 19.72 SQ. FT.
FILL AREA 19.43 SQ. FT. FILL AREA 2.65 SQ. FT.

CUT VOLUME 61 CU. YD. CUT VOLUME 60 CU. YD.
FILL VOLUME 70 CU. YD. FILL VOLUME 7 CU. YD.



CUT AREA 13.3 SQ. FT. CUT AREA 12.69 SQ. FT.
FILL AREA 18.3 SQ. FT. FILL AREA 1.13 SQ. FT.

CUT VOLUME 36 CU. YD. CUT VOLUME 45 CU. YD.
FILL VOLUME 53 CU. YD. FILL VOLUME 2 CU. YD.



CUT AREA 12.68 SQ. FT. CUT AREA 19.97 SQ. FT.
FILL AREA 19.67 SQ. FT. FILL AREA 0 SQ. FT.

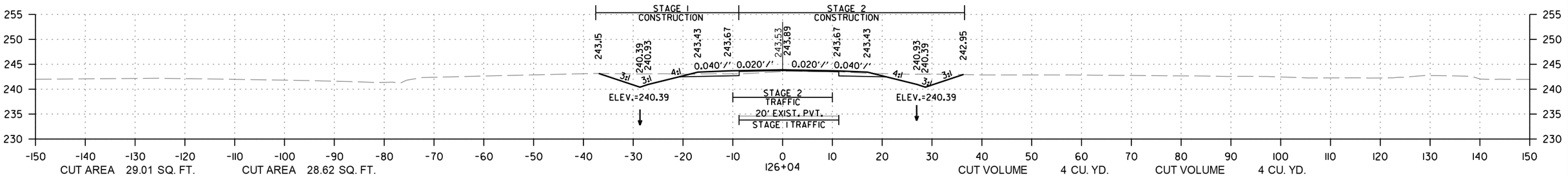
CUT VOLUME 12 CU. YD. CUT VOLUME 16 CU. YD.
FILL VOLUME 18 CU. YD. FILL VOLUME 0 CU. YD.

HWY. 190 NORTH
STA. 121+25 TO STA. 124+00

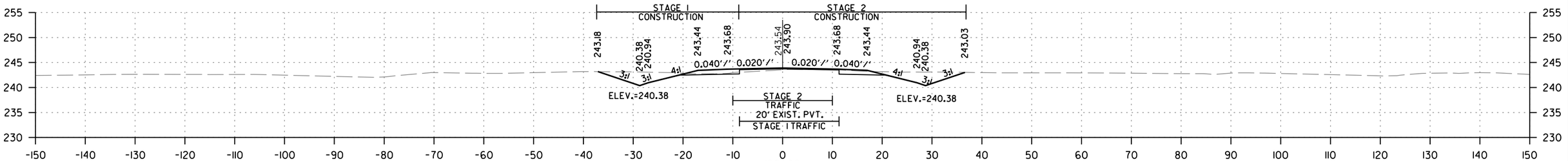
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	81	168
		CROSS SECTIONS				

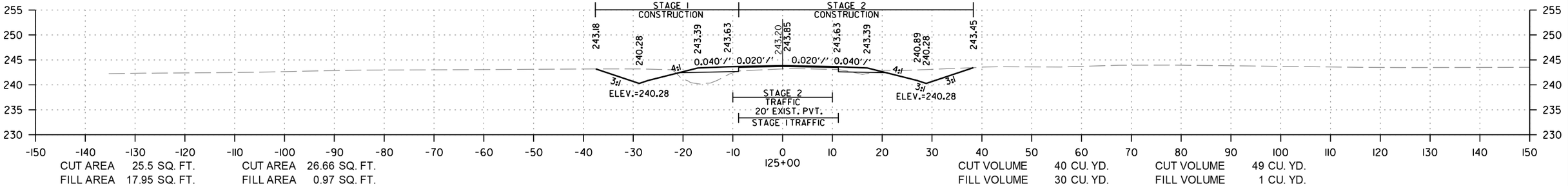
STAGE 1 STAGE 2 STAGE 1 STAGE 2



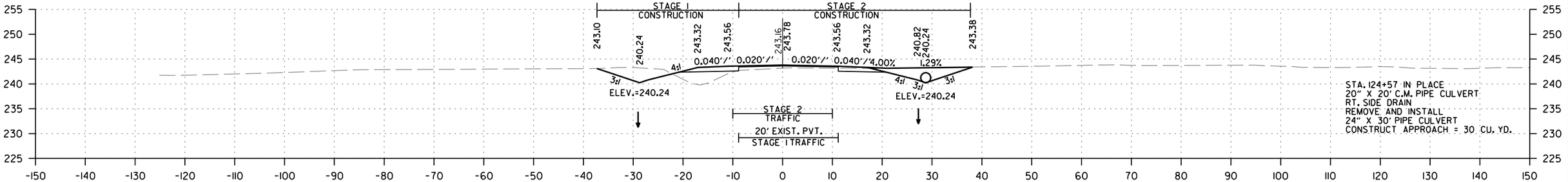
CUT AREA 29.01 SQ. FT. CUT AREA 28.62 SQ. FT. CUT VOLUME 4 CU. YD. CUT VOLUME 4 CU. YD.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT. FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 26.02 SQ. FT. CUT AREA 30.31 SQ. FT. CUT VOLUME 95 CU. YD. CUT VOLUME 106 CU. YD.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT. FILL VOLUME 33 CU. YD. FILL VOLUME 2 CU. YD.



CUT AREA 25.5 SQ. FT. CUT AREA 26.66 SQ. FT. CUT VOLUME 40 CU. YD. CUT VOLUME 49 CU. YD.
FILL AREA 17.95 SQ. FT. FILL AREA 0.97 SQ. FT. FILL VOLUME 30 CU. YD. FILL VOLUME 1 CU. YD.



STA. 124+57 IN PLACE
20" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND INSTALL
24" X 30' PIPE CULVERT
CONSTRUCT APPROACH = 30 CU. YD.

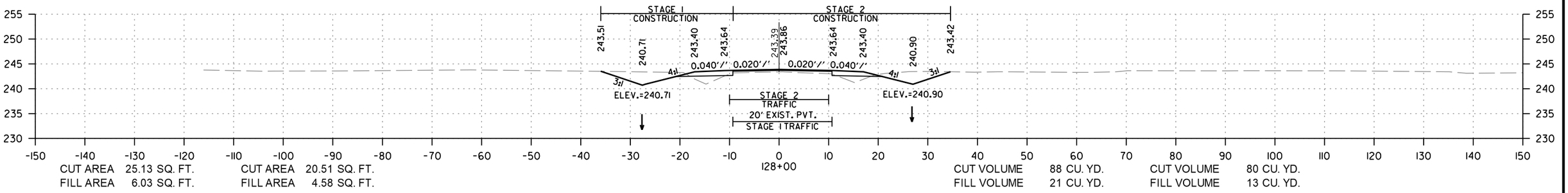
CUT AREA 24.76 SQ. FT. CUT AREA 34.89 SQ. FT. CUT VOLUME 52 CU. YD. CUT VOLUME 62 CU. YD.
FILL AREA 19.21 SQ. FT. FILL AREA 0 SQ. FT. FILL VOLUME 40 CU. YD. FILL VOLUME 2 CU. YD.

HWY. 190 NORTH
STA. 124+57 TO STA. 126+04

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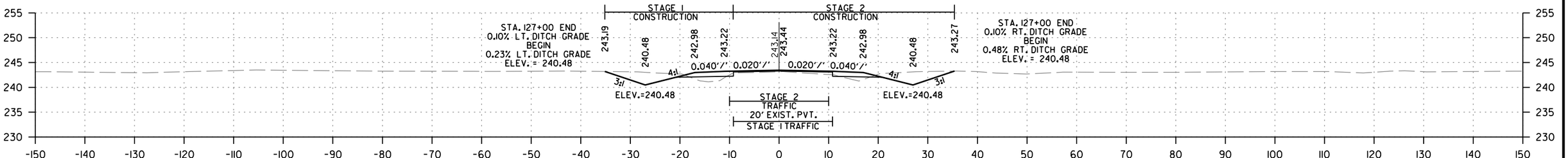
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	82	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



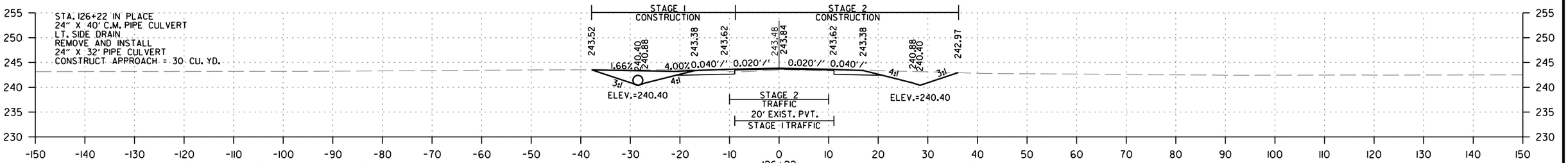
CUT AREA 25.13 SQ. FT. CUT AREA 20.51 SQ. FT.
FILL AREA 6.03 SQ. FT. FILL AREA 4.58 SQ. FT.

CUT VOLUME 88 CU. YD. CUT VOLUME 80 CU. YD.
FILL VOLUME 21 CU. YD. FILL VOLUME 13 CU. YD.



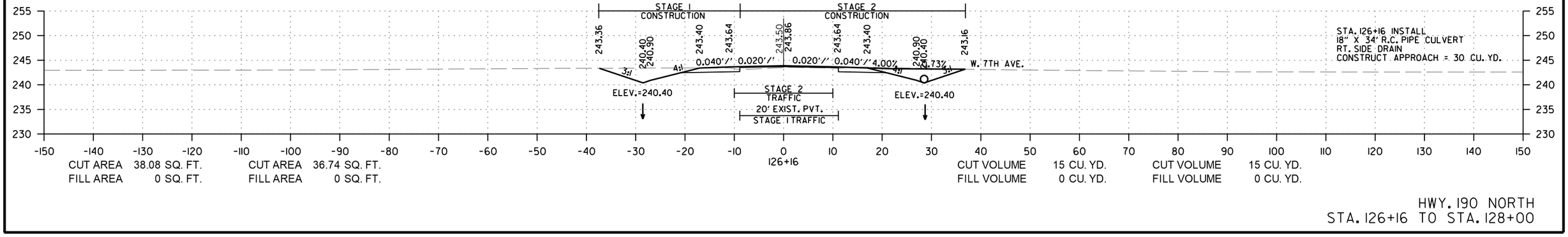
CUT AREA 22.36 SQ. FT. CUT AREA 22.89 SQ. FT.
FILL AREA 5.23 SQ. FT. FILL AREA 2.64 SQ. FT.

CUT VOLUME 92 CU. YD. CUT VOLUME 81 CU. YD.
FILL VOLUME 8 CU. YD. FILL VOLUME 4 CU. YD.



CUT AREA 41.28 SQ. FT. CUT AREA 33.11 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 9 CU. YD. CUT VOLUME 8 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 38.08 SQ. FT. CUT AREA 36.74 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

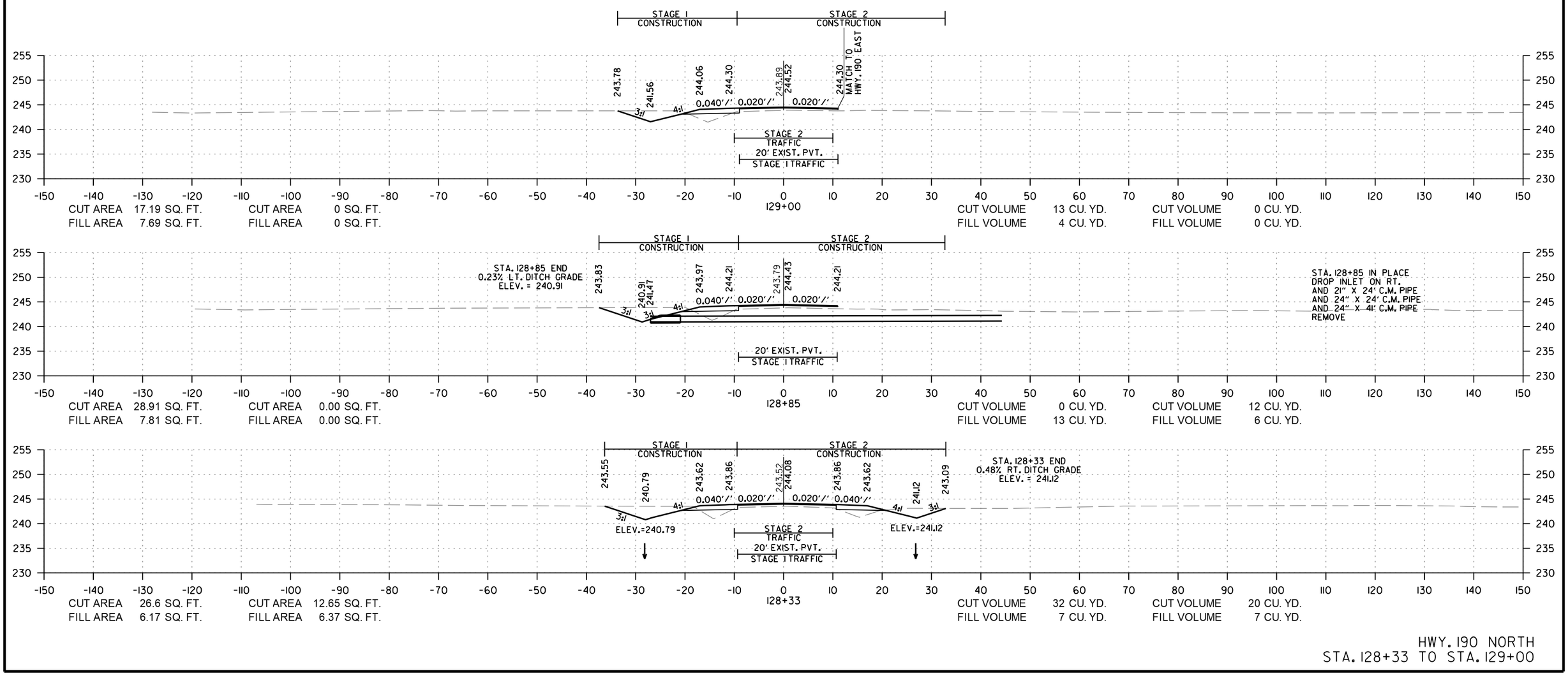
CUT VOLUME 15 CU. YD. CUT VOLUME 15 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.

HWY. 190 NORTH
STA. 126+16 TO STA. 128+00

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	83	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2

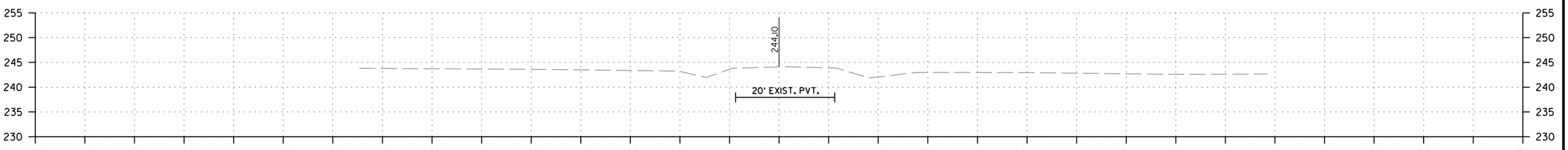


HWY. 190 NORTH
STA. 128+33 TO STA. 129+00

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	84	168
		CROSS SECTIONS				

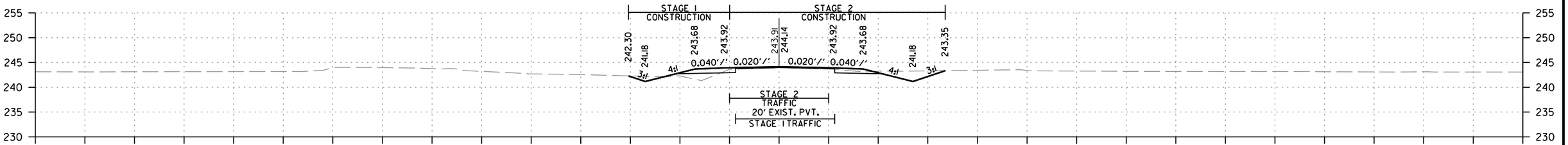
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

130+93.51
END 100' TRANSITION

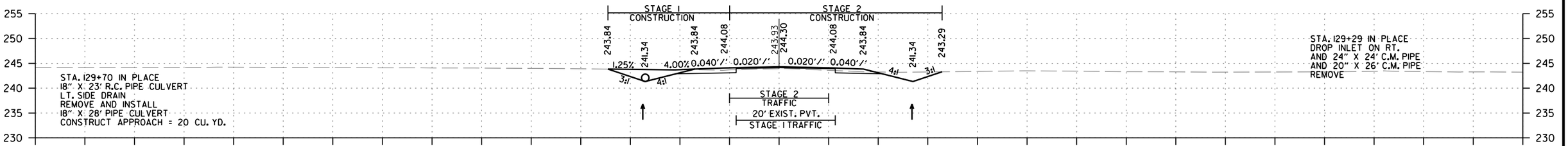
CUT VOLUME 9 CU. YD. CUT VOLUME 36 CU. YD.
FILL VOLUME 15 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 5.1 SQ. FT. CUT AREA 19.36 SQ. FT.
FILL AREA 8.18 SQ. FT. FILL AREA 0 SQ. FT.

129+93.51
END HWY. 190 NORTH
BEGIN 100' TRANSITION

CUT VOLUME 14 CU. YD. CUT VOLUME 15 CU. YD.
FILL VOLUME 4 CU. YD. FILL VOLUME 0 CU. YD.



STA. 129+70 IN PLACE
18" X 23' R.C. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
CONSTRUCT APPROACH = 20 CU. YD.

STA. 129+29 IN PLACE
DROP INLET ON RT.
AND 24" X 24' C.M. PIPE
AND 20" X 26' C.M. PIPE
REMOVE

CUT AREA 27.16 SQ. FT. CUT AREA 16.11 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

129+70
STA. 129+07.77 HWY. 190 NORTH=
STA. 200+00.00 HWY. 190 EAST
Δ = 90°00'00"

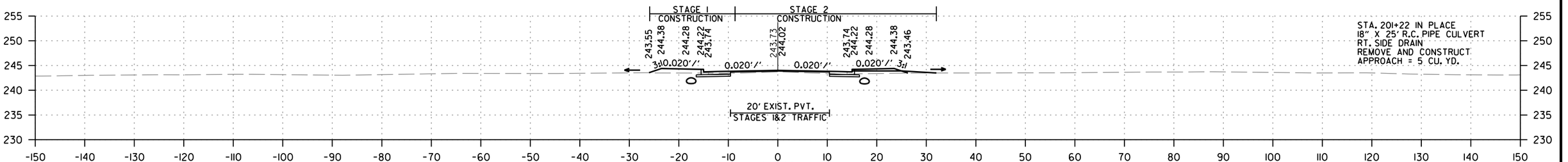
CUT VOLUME 57 CU. YD. CUT VOLUME 21 CU. YD.
FILL VOLUME 10 CU. YD. FILL VOLUME 0 CU. YD.

HWY. 190 NORTH
STA. 129+70 TO STA. 130+93.51

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

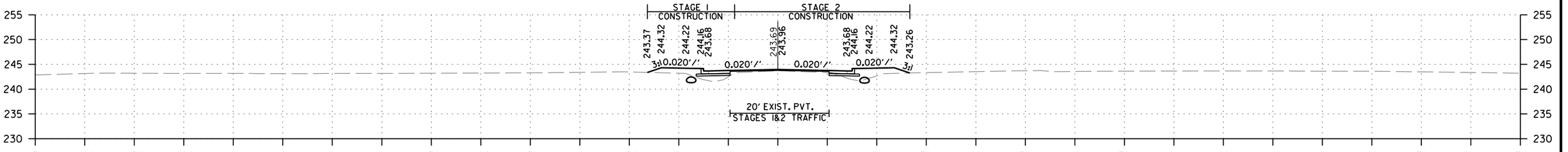
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	85	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



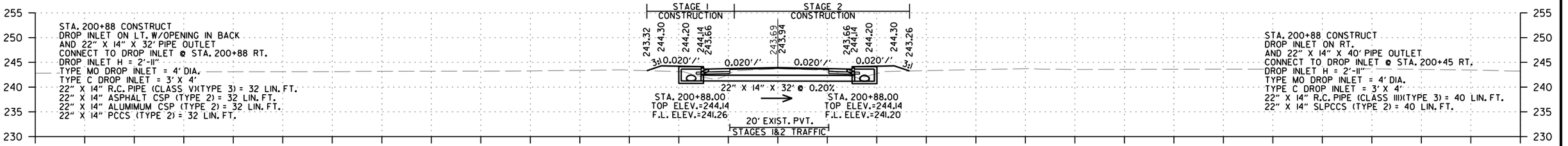
CUT AREA 4.65 SQ. FT. CUT AREA 2.89 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 7.63 SQ. FT. FILL AREA 8.7 SQ. FT. FILL VOLUME 10 CU. YD. FILL VOLUME 10 CU. YD.

201+22



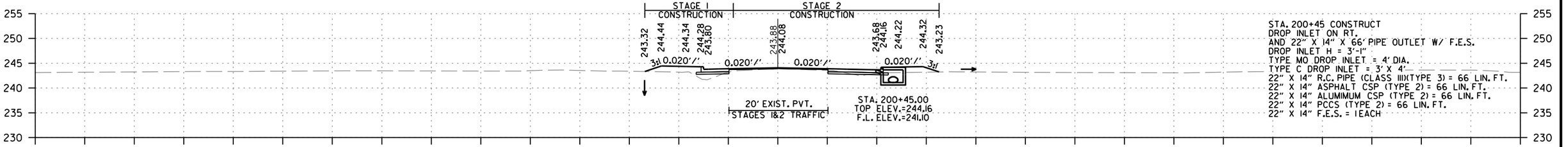
CUT AREA 0 SQ. FT. CUT AREA 0.79 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 16.06 SQ. FT. FILL AREA 16.59 SQ. FT. FILL VOLUME 7 CU. YD. FILL VOLUME 7 CU. YD.

201+00



CUT AREA 0 SQ. FT. CUT AREA 1.05 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 3 CU. YD.
FILL AREA 15.75 SQ. FT. FILL AREA 15.36 SQ. FT. FILL VOLUME 25 CU. YD. FILL VOLUME 21 CU. YD.

200+88



CUT AREA 0.2 SQ. FT. CUT AREA 2.7 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 15.42 SQ. FT. FILL AREA 11.37 SQ. FT. FILL VOLUME 10 CU. YD. FILL VOLUME 7 CU. YD.

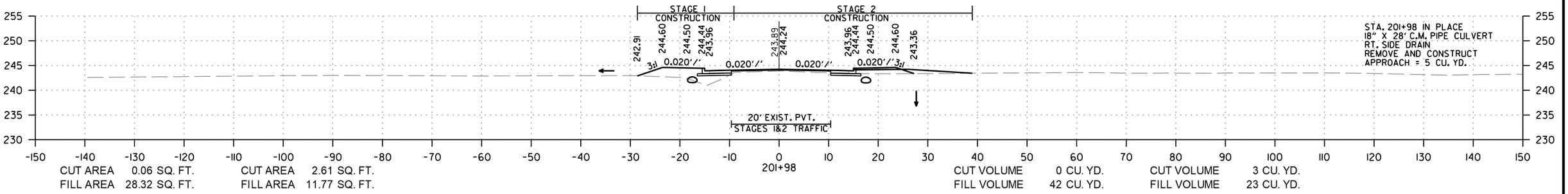
200+45
STA. 200+11.00
BEGIN HWY. 190 EAST
STA. 200+00.00 HWY. 190 EAST=
STA. 129+07.77 HWY. 190 NORTH
Δ = 90°00'00"

HWY. 190 EAST
STA. 200+45 TO STA. 201+22

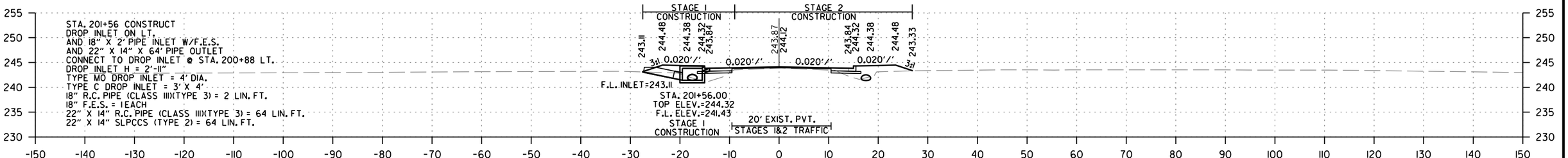
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	86	168
		CROSS SECTIONS				

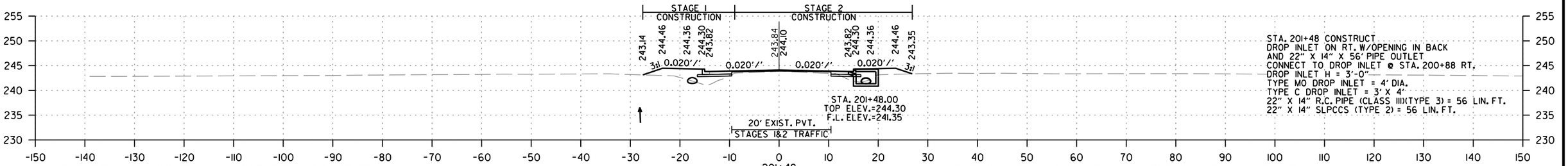
STAGE 1 STAGE 2 STAGE 1 STAGE 2



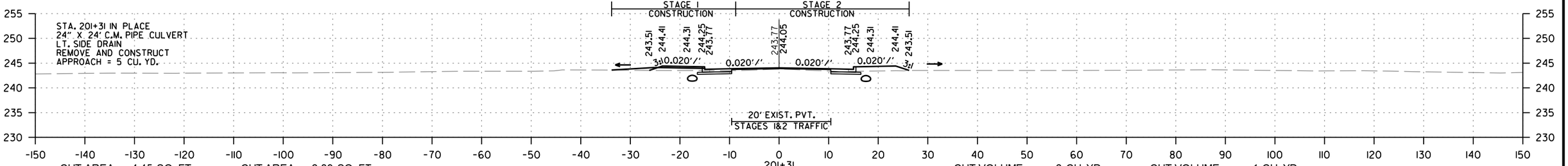
CUT AREA 0.06 SQ. FT. CUT AREA 2.61 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 3 CU. YD.
FILL AREA 28.32 SQ. FT. FILL AREA 11.77 SQ. FT. FILL VOLUME 42 CU. YD. FILL VOLUME 23 CU. YD.



CUT AREA 0.08 SQ. FT. CUT AREA 0.73 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 25.14 SQ. FT. FILL AREA 18.05 SQ. FT. FILL VOLUME 7 CU. YD. FILL VOLUME 5 CU. YD.



CUT AREA 0.41 SQ. FT. CUT AREA 0.79 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 24.15 SQ. FT. FILL AREA 17.9 SQ. FT. FILL VOLUME 10 CU. YD. FILL VOLUME 8 CU. YD.



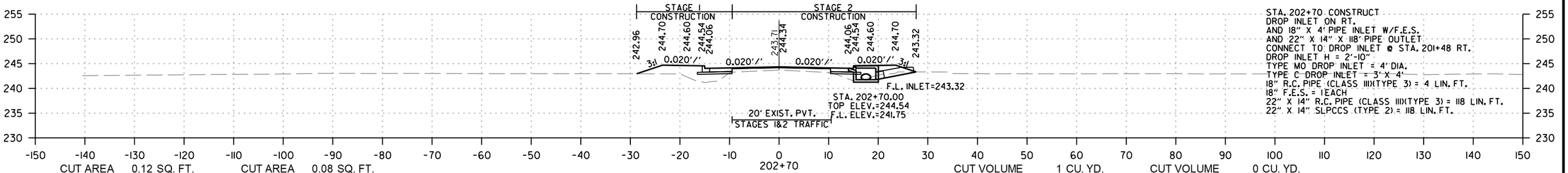
CUT AREA 4.45 SQ. FT. CUT AREA 2.89 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 7.92 SQ. FT. FILL AREA 8.68 SQ. FT. FILL VOLUME 3 CU. YD. FILL VOLUME 3 CU. YD.

HWY. 190 EAST
STA. 201+31 TO STA. 201+98

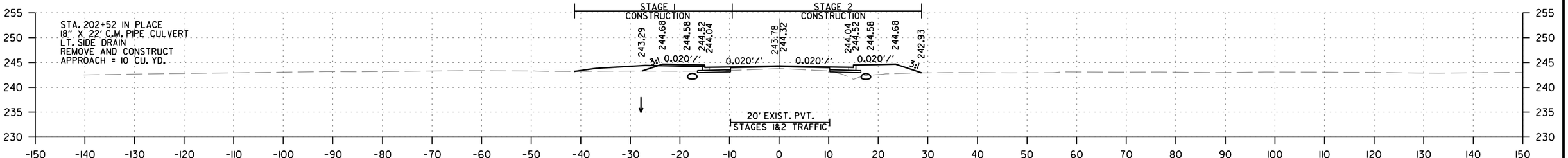
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	87	168
		CROSS SECTIONS				

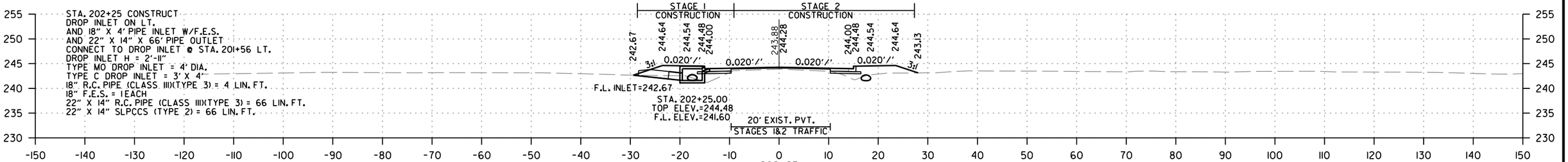
STAGE 1 STAGE 2 STAGE 1 STAGE 2



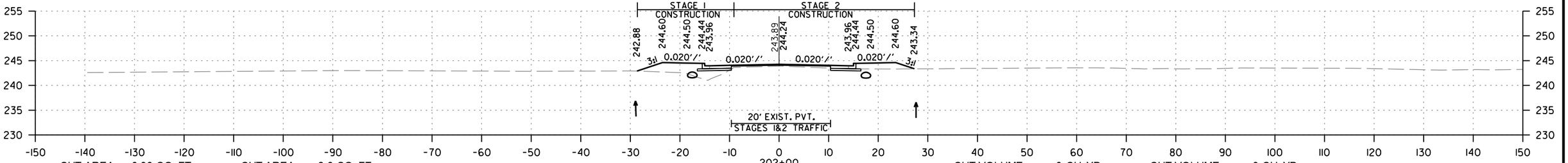
CUT AREA 0.12 SQ. FT. CUT AREA 0.08 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 28.52 SQ. FT. FILL AREA 22.96 SQ. FT. FILL VOLUME 14 CU. YD. FILL VOLUME 16 CU. YD.



CUT AREA 1.69 SQ. FT. CUT AREA 0.1 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 13.4 SQ. FT. FILL AREA 24.26 SQ. FT. FILL VOLUME 21 CU. YD. FILL VOLUME 22 CU. YD.



CUT AREA 0.08 SQ. FT. CUT AREA 0.34 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 28.95 SQ. FT. FILL AREA 19.9 SQ. FT. FILL VOLUME 27 CU. YD. FILL VOLUME 15 CU. YD.



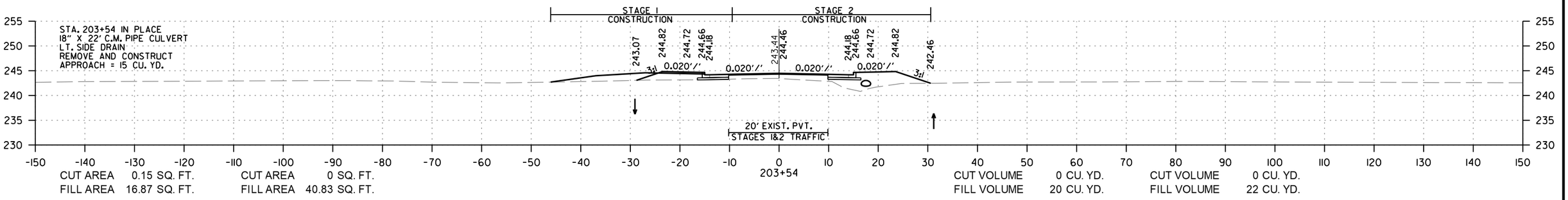
CUT AREA 0.06 SQ. FT. CUT AREA 2.6 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 28.54 SQ. FT. FILL AREA 12.04 SQ. FT. FILL VOLUME 2 CU. YD. FILL VOLUME 1 CU. YD.

HWY. 190 EAST
STA. 202+00 TO STA. 202+70

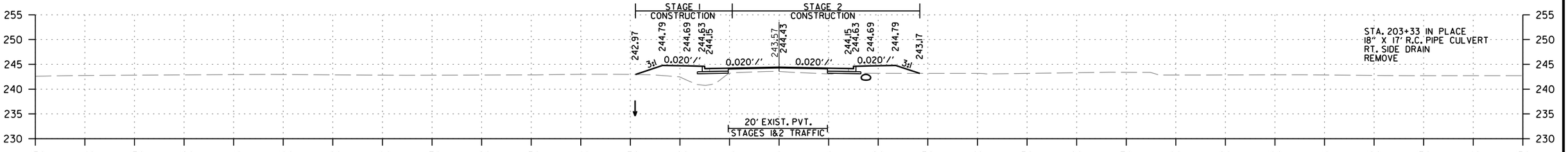
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	88	168
		CROSS SECTIONS				

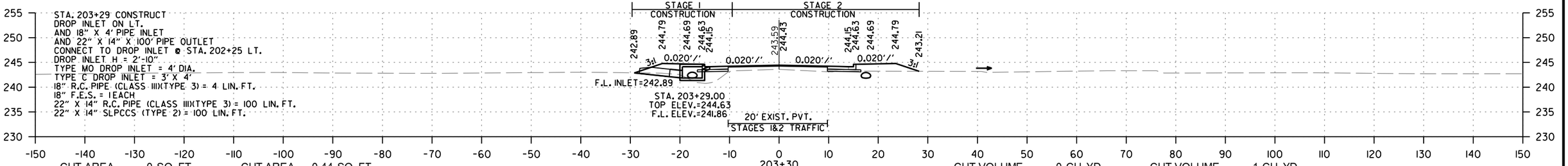
STAGE 1 STAGE 2 STAGE 1 STAGE 2



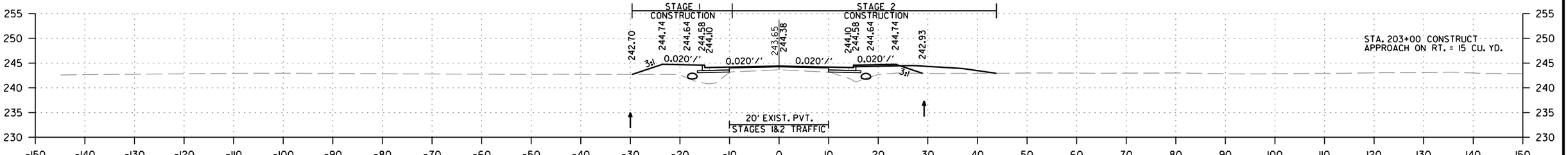
CUT AREA 0.15 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 16.87 SQ. FT. FILL AREA 40.83 SQ. FT. FILL VOLUME 20 CU. YD. FILL VOLUME 22 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0.24 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 35.64 SQ. FT. FILL AREA 16.09 SQ. FT. FILL VOLUME 4 CU. YD. FILL VOLUME 2 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0.44 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 35.33 SQ. FT. FILL AREA 15.55 SQ. FT. FILL VOLUME 32 CU. YD. FILL VOLUME 14 CU. YD.



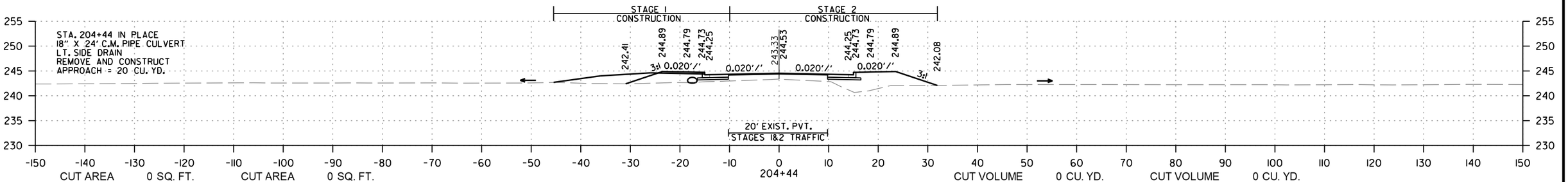
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 35.14 SQ. FT. FILL AREA 27.49 SQ. FT. FILL VOLUME 35 CU. YD. FILL VOLUME 28 CU. YD.

HWY. 190 EAST
STA. 203+00 TO STA. 203+54

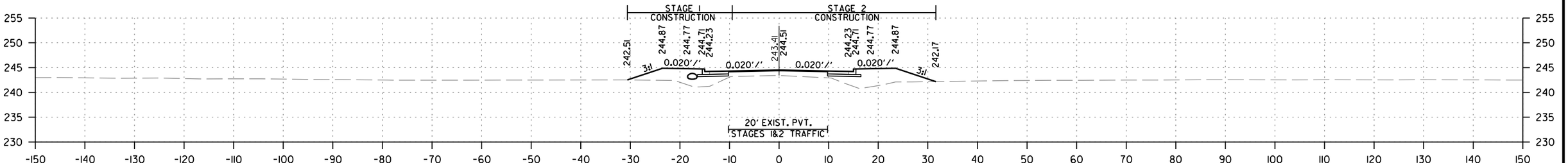
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	89	168
		CROSS SECTIONS				

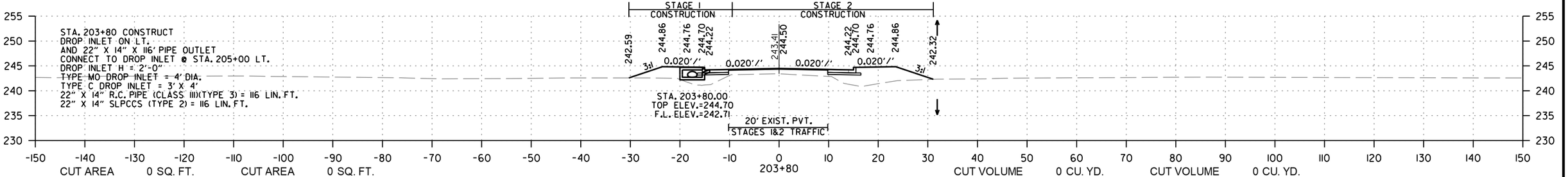
STAGE 1 STAGE 2 STAGE 1 STAGE 2



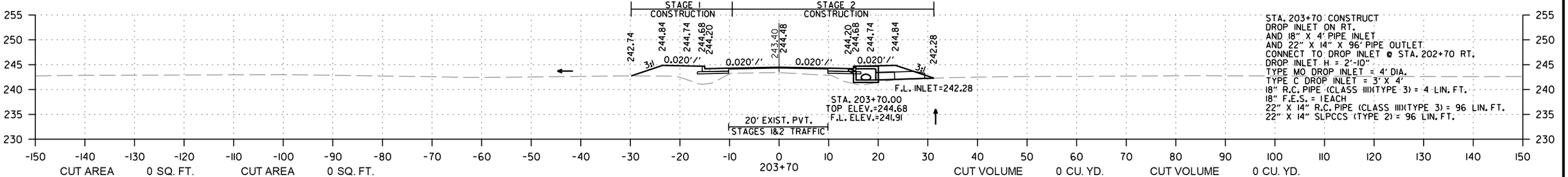
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 27.26 SQ. FT. FILL AREA 47.53 SQ. FT. FILL VOLUME 54 CU. YD. FILL VOLUME 76 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 39.33 SQ. FT. FILL AREA 45.43 SQ. FT. FILL VOLUME 28 CU. YD. FILL VOLUME 34 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 37.38 SQ. FT. FILL AREA 45.47 SQ. FT. FILL VOLUME 13 CU. YD. FILL VOLUME 17 CU. YD.



STA. 203+70 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 202+70 RT.
DROP INLET H = 2'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III)(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1 EACH
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 96 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 96 LIN. FT.

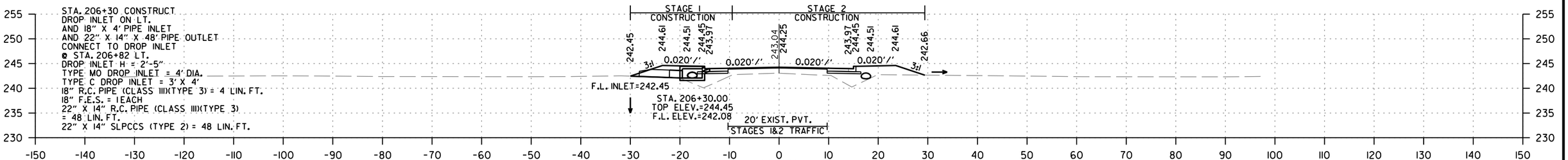
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 35.17 SQ. FT. FILL AREA 44.72 SQ. FT. FILL VOLUME 15 CU. YD. FILL VOLUME 25 CU. YD.

HWY. 190 EAST
STA. 203+70 TO STA. 204+44

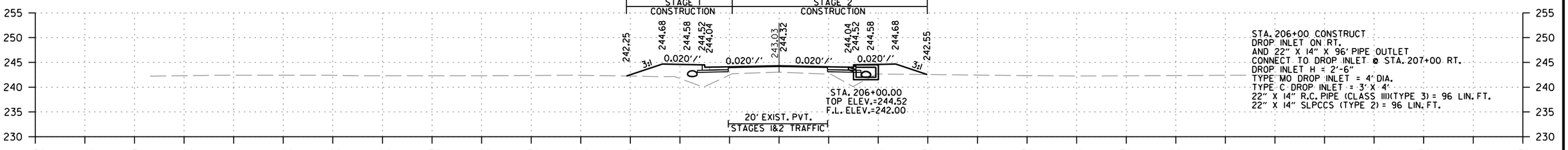
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	90	168
		CROSS SECTIONS				

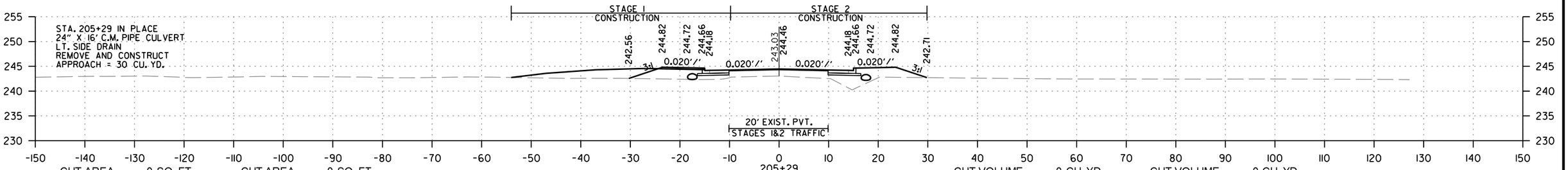
STAGE 1 STAGE 2 STAGE 1 STAGE 2



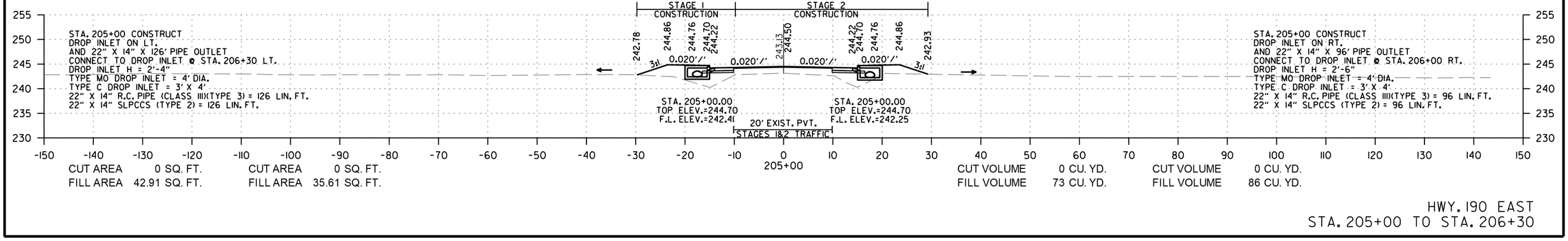
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 40.12 SQ. FT. FILL AREA 33.15 SQ. FT. FILL VOLUME 47 CU. YD. FILL VOLUME 38 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 44.43 SQ. FT. FILL AREA 35.91 SQ. FT. FILL VOLUME 99 CU. YD. FILL VOLUME 96 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 30.66 SQ. FT. FILL AREA 37.15 SQ. FT. FILL VOLUME 40 CU. YD. FILL VOLUME 39 CU. YD.



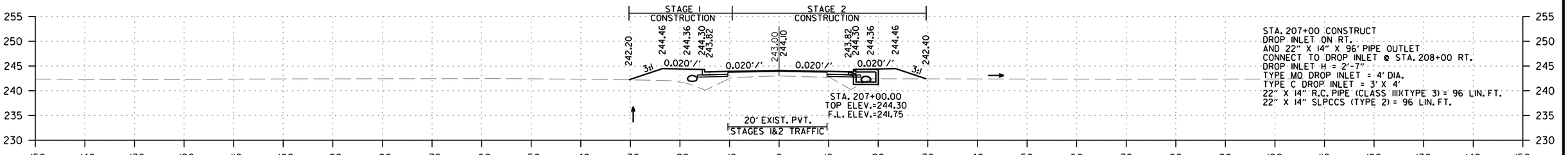
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 42.91 SQ. FT. FILL AREA 35.61 SQ. FT. FILL VOLUME 73 CU. YD. FILL VOLUME 86 CU. YD.

HWY. 190 EAST
STA. 205+00 TO STA. 206+30

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	91	168
		CROSS SECTIONS				

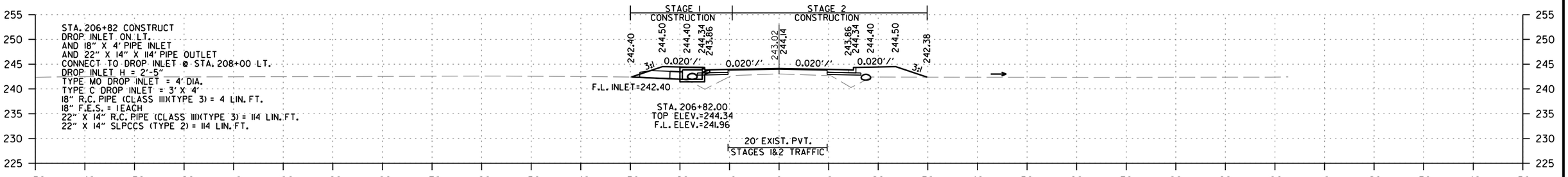
STAGE 1 STAGE 2 STAGE 1 STAGE 2



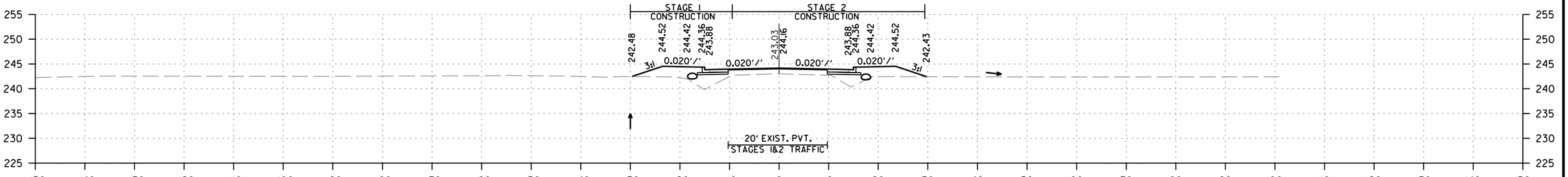
STA. 207+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 96' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 208+00 RT.
DROP INLET H = 2'-7"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 96 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 96 LIN. FT.

CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 39.6 SQ. FT. FILL AREA 32.1 SQ. FT.
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 26 CU. YD. FILL VOLUME 22 CU. YD.

STA. 206+82 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET
AND 22" X 14" X 114' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 208+00 LT.
DROP INLET H = 2'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III)(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1 EACH
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 114 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 114 LIN. FT.

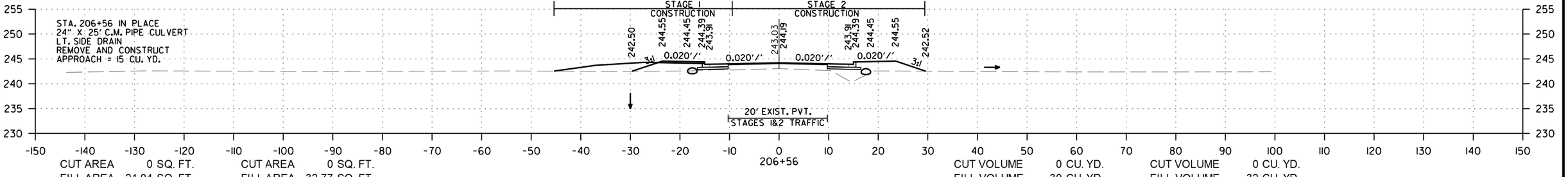


CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 38.29 SQ. FT. FILL AREA 33.02 SQ. FT.
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 14 CU. YD. FILL VOLUME 12 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 36.96 SQ. FT. FILL AREA 32.71 SQ. FT.
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 17 CU. YD. FILL VOLUME 19 CU. YD.

STA. 206+56 IN PLACE
24" X 25' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.



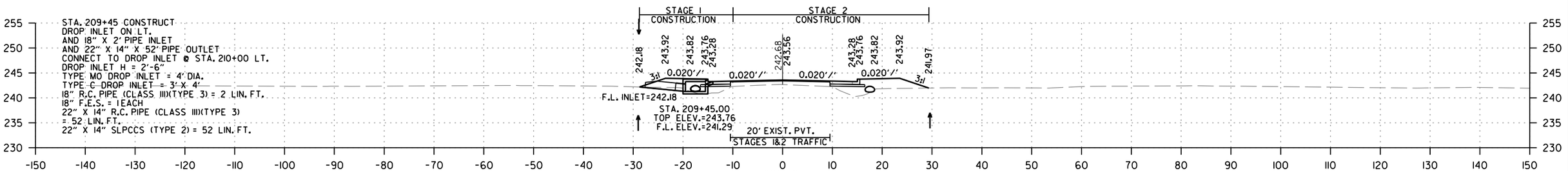
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 21.94 SQ. FT. FILL AREA 32.77 SQ. FT.
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 30 CU. YD. FILL VOLUME 32 CU. YD.

HWY. 190 EAST
STA. 206+56 TO STA. 207+00

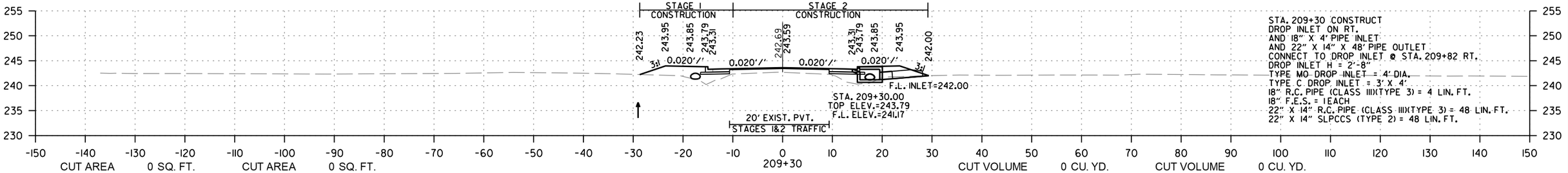
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	92	168
		CROSS SECTIONS				

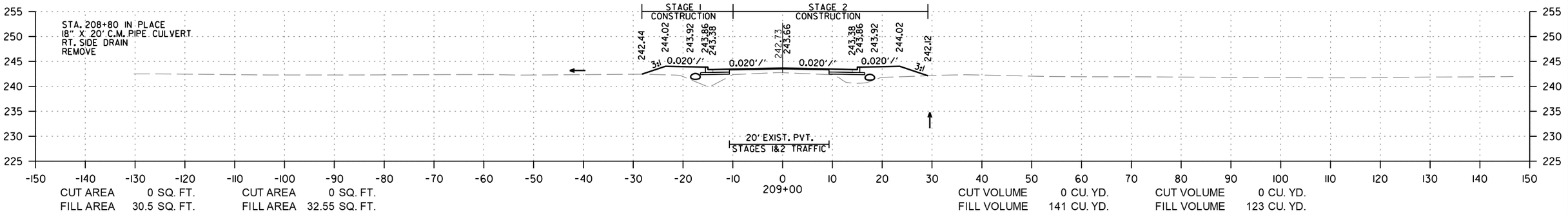
STAGE 1 STAGE 2 STAGE 1 STAGE 2



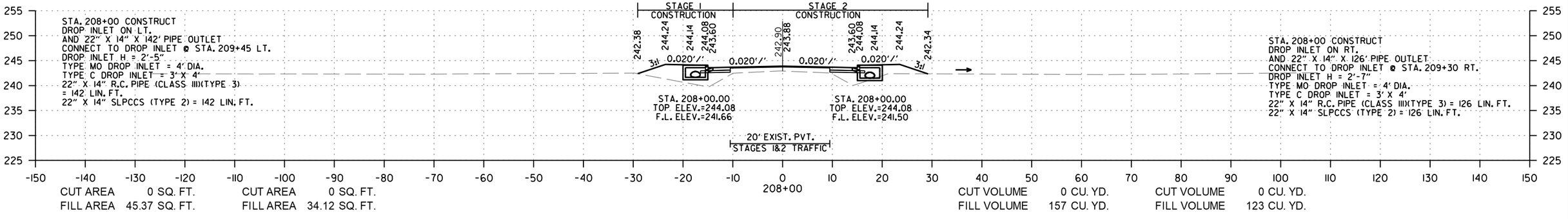
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 27.97 SQ. FT. FILL AREA 31.34 SQ. FT. FILL VOLUME 16 CU. YD. FILL VOLUME 18 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 28.36 SQ. FT. FILL AREA 34.15 SQ. FT. FILL VOLUME 33 CU. YD. FILL VOLUME 37 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 30.5 SQ. FT. FILL AREA 32.55 SQ. FT. FILL VOLUME 141 CU. YD. FILL VOLUME 123 CU. YD.



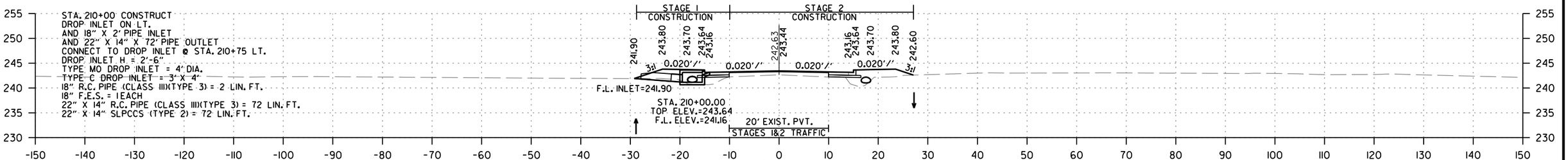
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 45.37 SQ. FT. FILL AREA 34.12 SQ. FT. FILL VOLUME 157 CU. YD. FILL VOLUME 123 CU. YD.

HWY. 190 EAST
STA. 208+00 TO STA. 209+45

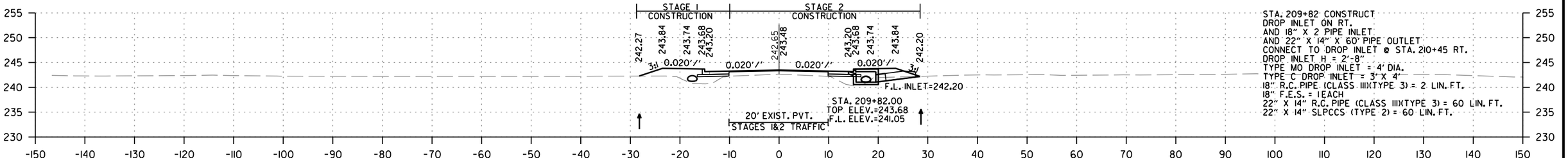
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	93	168
		CROSS SECTIONS				

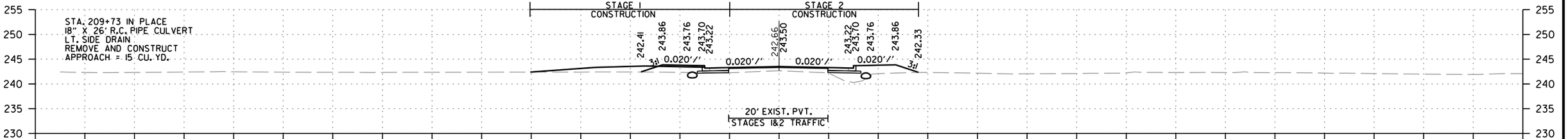
STAGE 1 STAGE 2 STAGE 1 STAGE 2



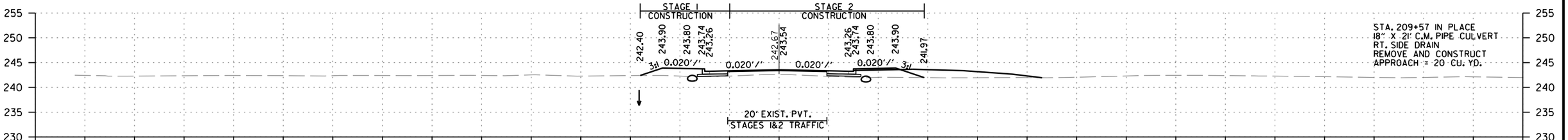
CUT AREA 0 SQ. FT. CUT AREA 0.09 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 29.68 SQ. FT. FILL AREA 21.64 SQ. FT. FILL VOLUME 18 CU. YD. FILL VOLUME 17 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 25.75 SQ. FT. FILL AREA 28.08 SQ. FT. FILL VOLUME 7 CU. YD. FILL VOLUME 9 CU. YD.



CUT AREA 0.27 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 14.45 SQ. FT. FILL AREA 27.21 SQ. FT. FILL VOLUME 9 CU. YD. FILL VOLUME 14 CU. YD.



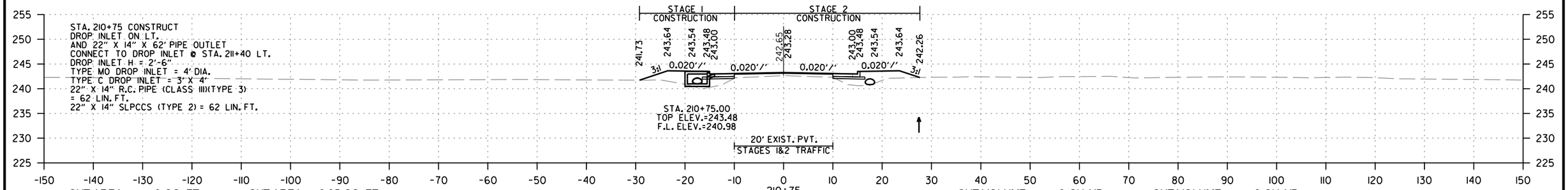
CUT AREA 0.04 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 15.56 SQ. FT. FILL AREA 20.16 SQ. FT. FILL VOLUME 10 CU. YD. FILL VOLUME 11 CU. YD.

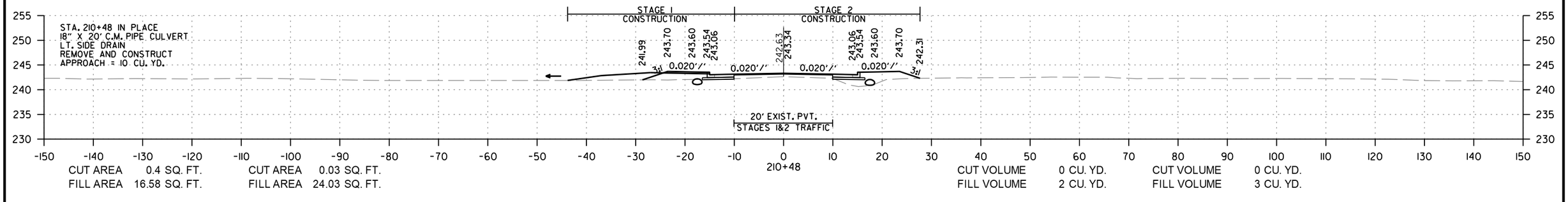
HWY. 190 EAST
STA. 209+57 TO STA. 210+00

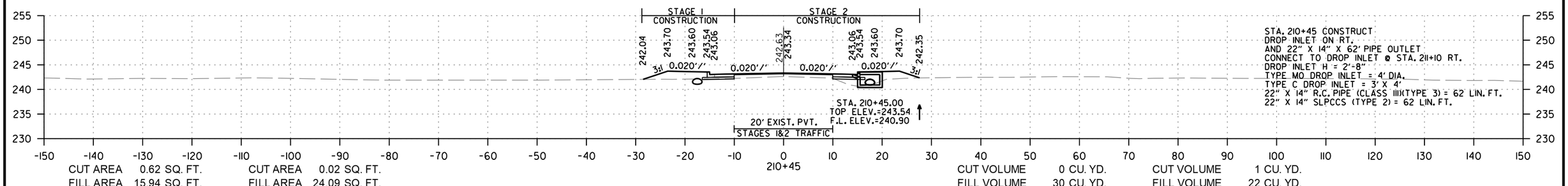
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

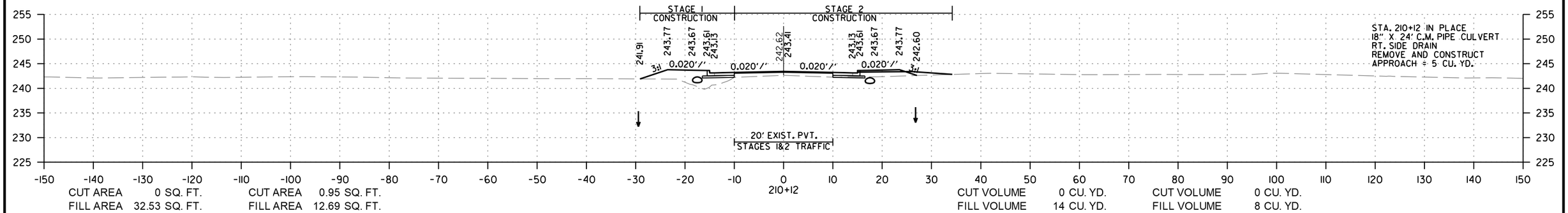
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	94	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2







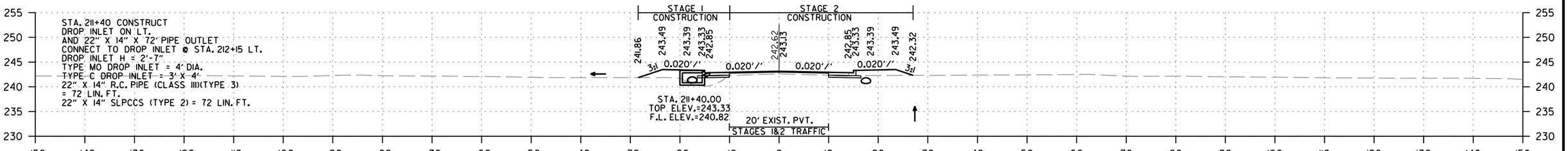


HWY. 190 EAST
STA. 210+12 TO STA. 210+75

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

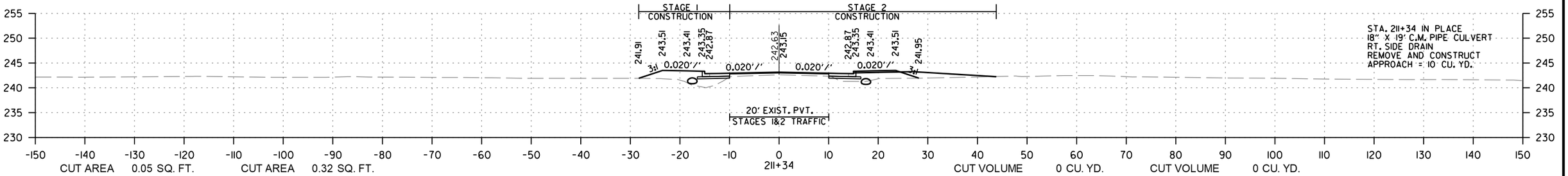
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	95	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



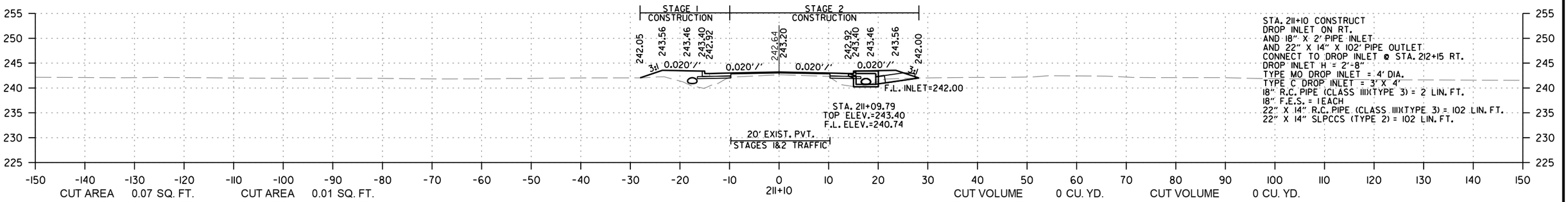
CUT AREA 0.07 SQ. FT. CUT AREA 2.59 SQ. FT.
FILL AREA 27.07 SQ. FT. FILL AREA 11.12 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 6 CU. YD. FILL VOLUME 3 CU. YD.



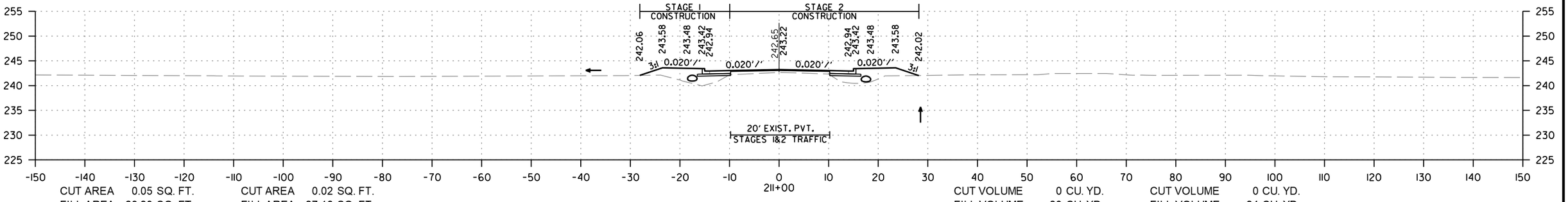
CUT AREA 0.05 SQ. FT. CUT AREA 0.32 SQ. FT.
FILL AREA 27.55 SQ. FT. FILL AREA 19.7 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 24 CU. YD. FILL VOLUME 21 CU. YD.



CUT AREA 0.07 SQ. FT. CUT AREA 0.01 SQ. FT.
FILL AREA 26.83 SQ. FT. FILL AREA 27.96 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 10 CU. YD. FILL VOLUME 10 CU. YD.



CUT AREA 0.05 SQ. FT. CUT AREA 0.02 SQ. FT.
FILL AREA 29.29 SQ. FT. FILL AREA 27.18 SQ. FT.

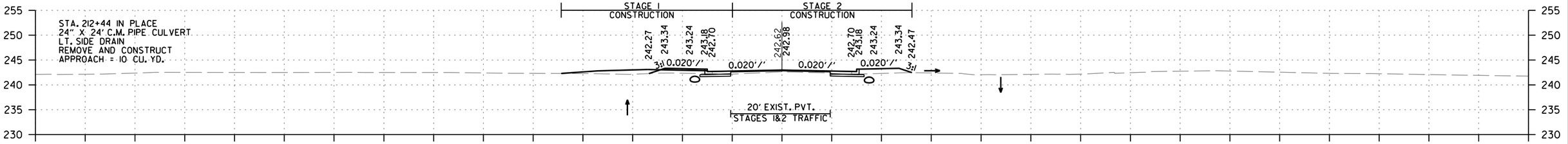
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 29 CU. YD. FILL VOLUME 24 CU. YD.

HWY. 190 EAST
STA. 211+00 TO STA. 211+40

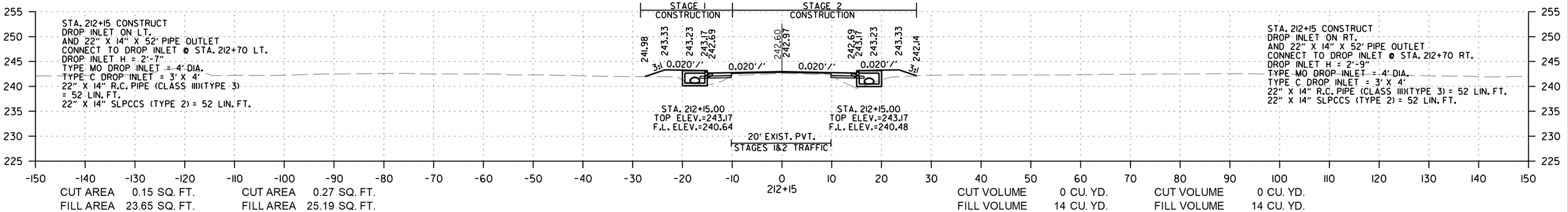
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	96	168
		CROSS SECTIONS				

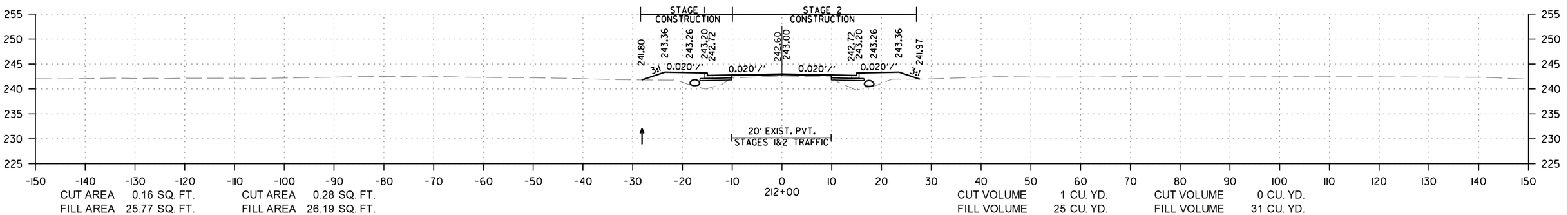
STAGE 1 STAGE 2 STAGE 1 STAGE 2



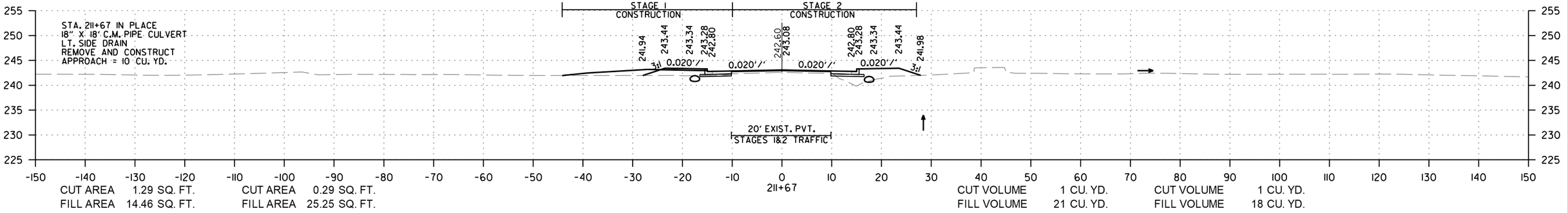
CUT AREA 2.97 SQ. FT. CUT AREA 3.29 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 9.01 SQ. FT. FILL AREA 8.83 SQ. FT. FILL VOLUME 18 CU. YD. FILL VOLUME 18 CU. YD.



CUT AREA 0.15 SQ. FT. CUT AREA 0.27 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 23.65 SQ. FT. FILL AREA 25.19 SQ. FT. FILL VOLUME 14 CU. YD. FILL VOLUME 14 CU. YD.



CUT AREA 0.16 SQ. FT. CUT AREA 0.28 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 25.77 SQ. FT. FILL AREA 26.19 SQ. FT. FILL VOLUME 25 CU. YD. FILL VOLUME 31 CU. YD.



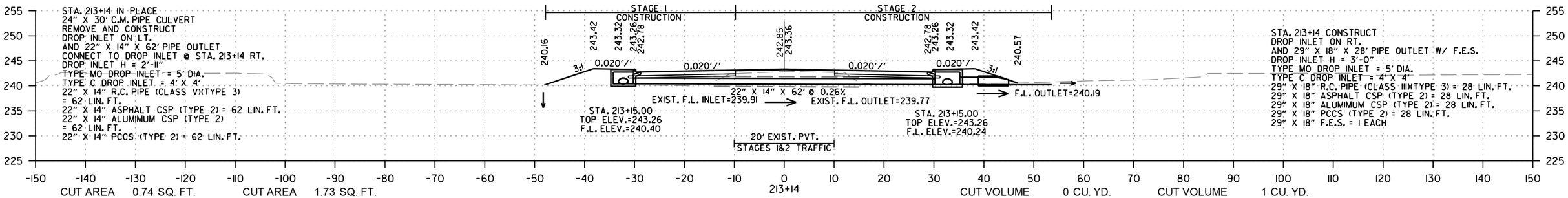
CUT AREA 1.29 SQ. FT. CUT AREA 0.29 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 14.46 SQ. FT. FILL AREA 25.25 SQ. FT. FILL VOLUME 21 CU. YD. FILL VOLUME 18 CU. YD.

HWY. 190 EAST
STA. 211+67 TO STA. 212+44

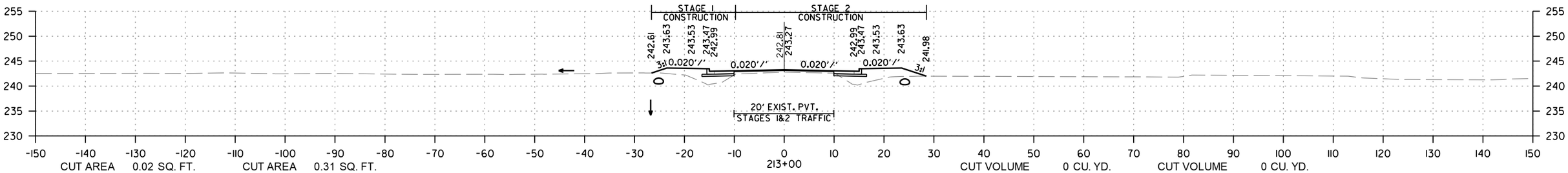
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	97	168
		CROSS SECTIONS				

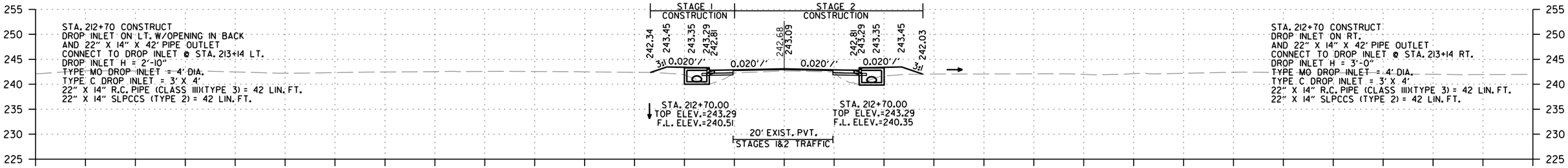
STAGE 1 STAGE 2 STAGE 1 STAGE 2



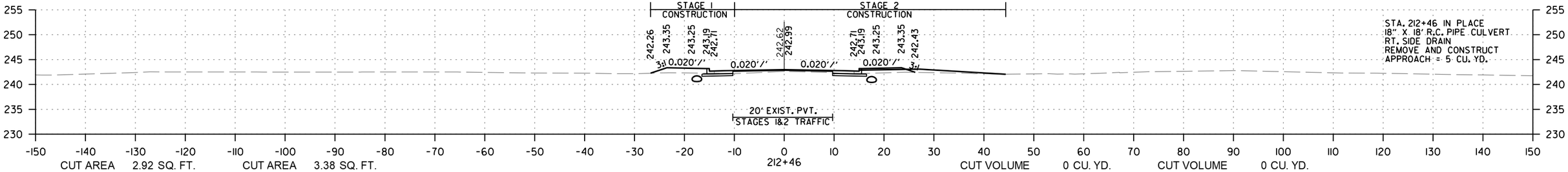
CUT AREA 0.74 SQ. FT. CUT AREA 1.73 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 67.79 SQ. FT. FILL AREA 58.55 SQ. FT. FILL VOLUME 23 CU. YD. FILL VOLUME 22 CU. YD.



CUT AREA 0.02 SQ. FT. CUT AREA 0.31 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 21.12 SQ. FT. FILL AREA 26.41 SQ. FT. FILL VOLUME 24 CU. YD. FILL VOLUME 28 CU. YD.



CUT AREA 0.02 SQ. FT. CUT AREA 0.29 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 22.12 SQ. FT. FILL AREA 24.78 SQ. FT. FILL VOLUME 14 CU. YD. FILL VOLUME 15 CU. YD.



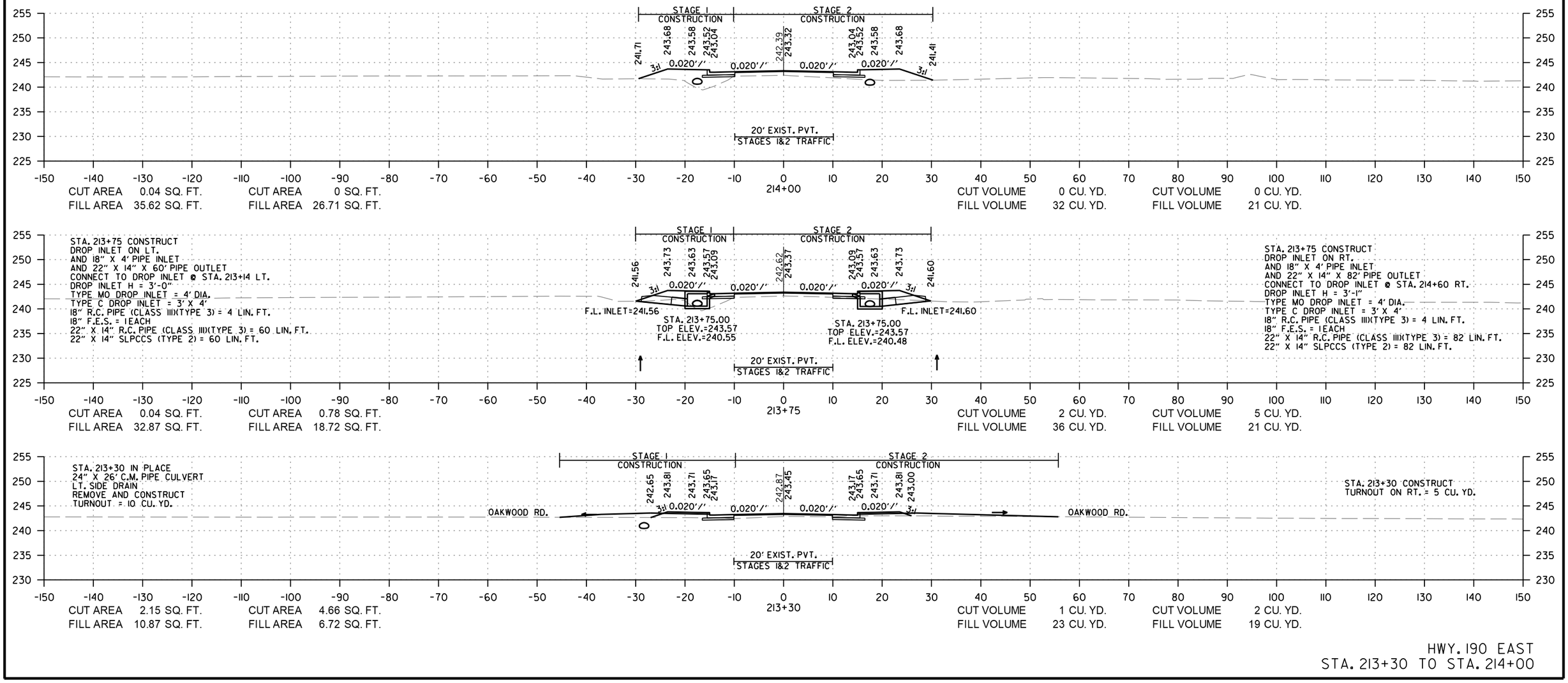
CUT AREA 2.92 SQ. FT. CUT AREA 3.38 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 9.24 SQ. FT. FILL AREA 8.72 SQ. FT. FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.

HWY. 190 EAST
STA. 212+46 TO STA. 213+14

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R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	98	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	0.04 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	0 CU. YD.
FILL AREA	35.62 SQ. FT.	FILL AREA	26.71 SQ. FT.	FILL VOLUME	32 CU. YD.
214+00					
CUT AREA	0.04 SQ. FT.	CUT AREA	0.78 SQ. FT.	CUT VOLUME	2 CU. YD.
FILL AREA	32.87 SQ. FT.	FILL AREA	18.72 SQ. FT.	FILL VOLUME	36 CU. YD.
213+75					
CUT AREA	2.15 SQ. FT.	CUT AREA	4.66 SQ. FT.	CUT VOLUME	1 CU. YD.
FILL AREA	10.87 SQ. FT.	FILL AREA	6.72 SQ. FT.	FILL VOLUME	23 CU. YD.
213+30					

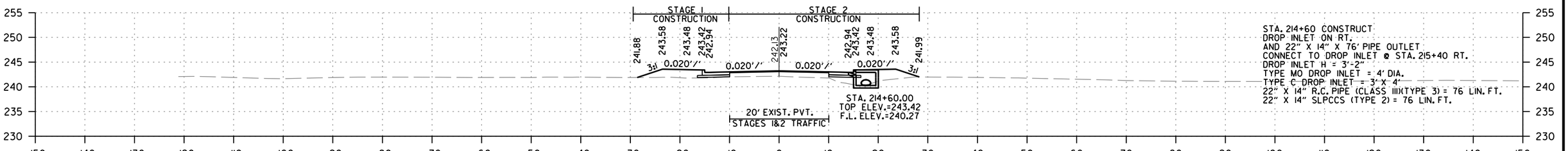
CUT VOLUME	0 CU. YD.	CUT VOLUME	0 CU. YD.	
FILL VOLUME	21 CU. YD.	FILL VOLUME	21 CU. YD.	
CUT VOLUME	5 CU. YD.			
FILL VOLUME	21 CU. YD.			
CUT VOLUME	2 CU. YD.			
FILL VOLUME	19 CU. YD.			

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R020628.DGN MicroStation v8.11.9.578

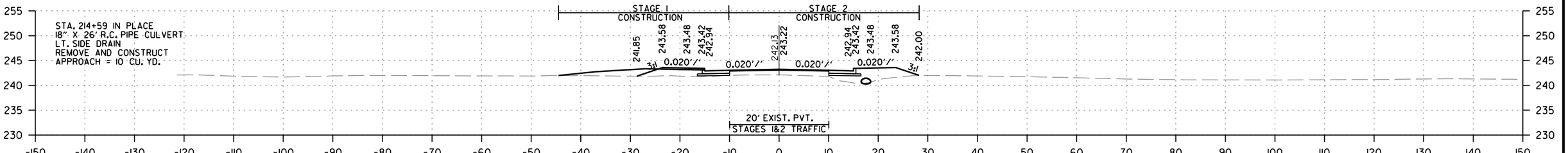
HWY. 190 EAST
STA. 213+30 TO STA. 214+00

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	99	168
		CROSS SECTIONS				

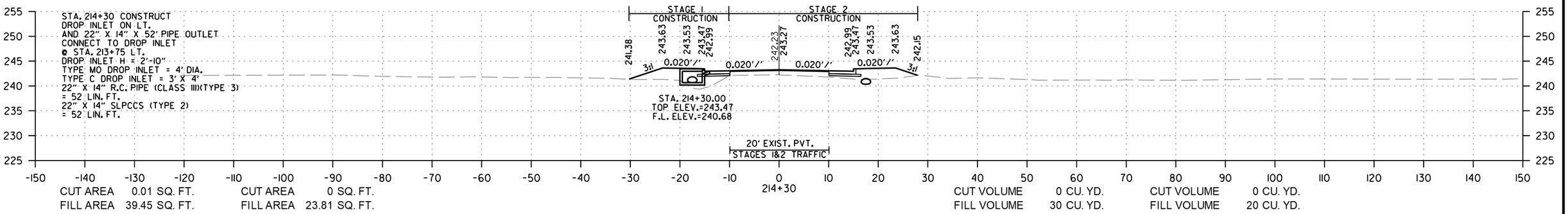
STAGE 1 STAGE 2 STAGE 1 STAGE 2



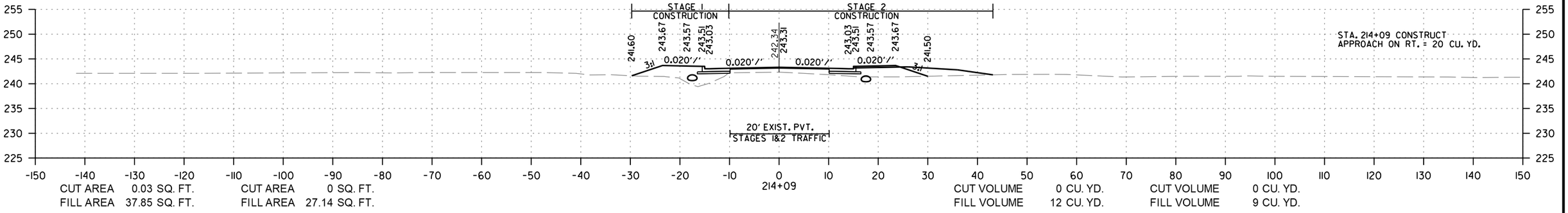
CUT AREA 0.04 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 17.51 SQ. FT. FILL AREA 30.14 SQ. FT. FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.



CUT AREA 0.03 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 17.55 SQ. FT. FILL AREA 30.09 SQ. FT. FILL VOLUME 31 CU. YD. FILL VOLUME 29 CU. YD.



CUT AREA 0.01 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 39.45 SQ. FT. FILL AREA 23.81 SQ. FT. FILL VOLUME 30 CU. YD. FILL VOLUME 20 CU. YD.

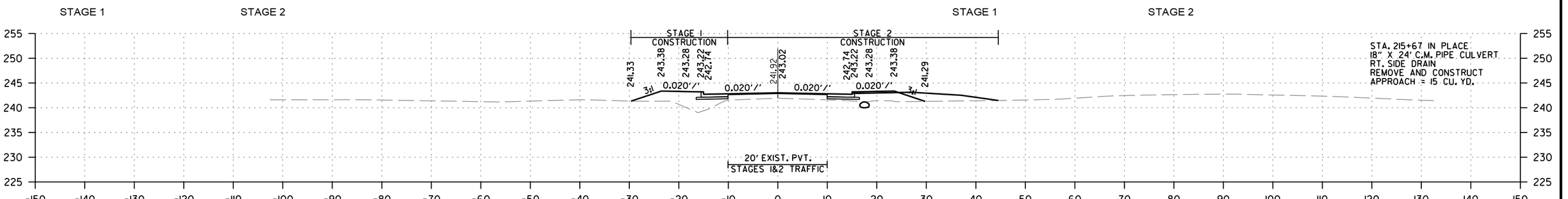


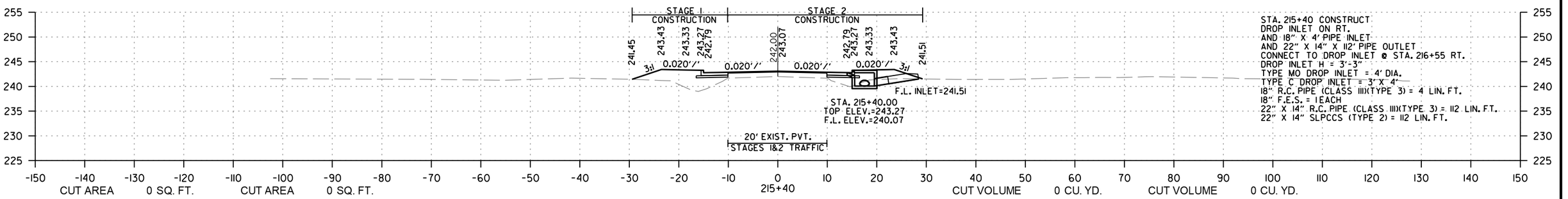
CUT AREA 0.03 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 37.85 SQ. FT. FILL AREA 27.14 SQ. FT. FILL VOLUME 12 CU. YD. FILL VOLUME 9 CU. YD.

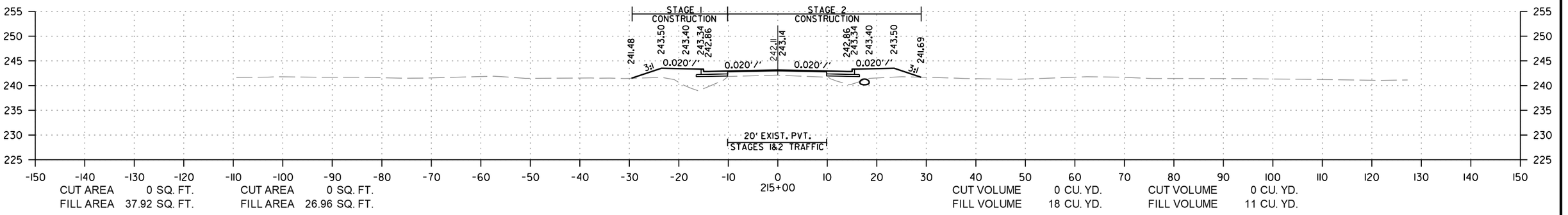
HWY. 190 EAST
STA. 214+09 TO STA. 214+60

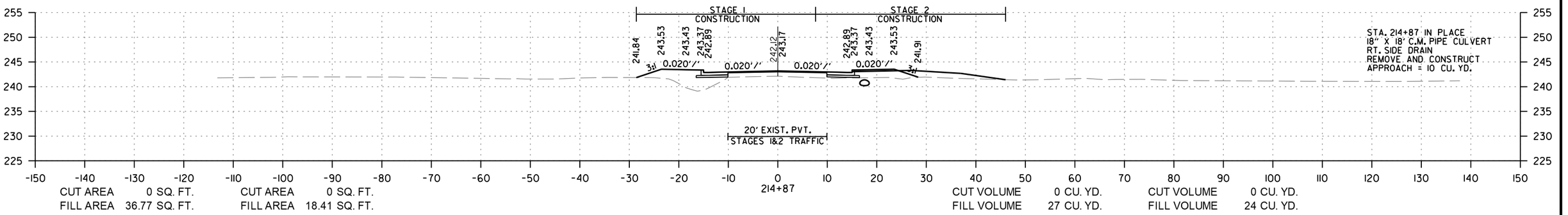
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	100	168
		CROSS SECTIONS				





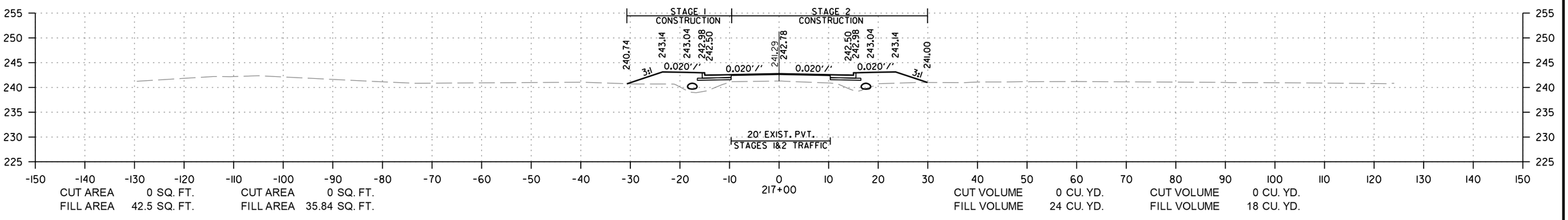


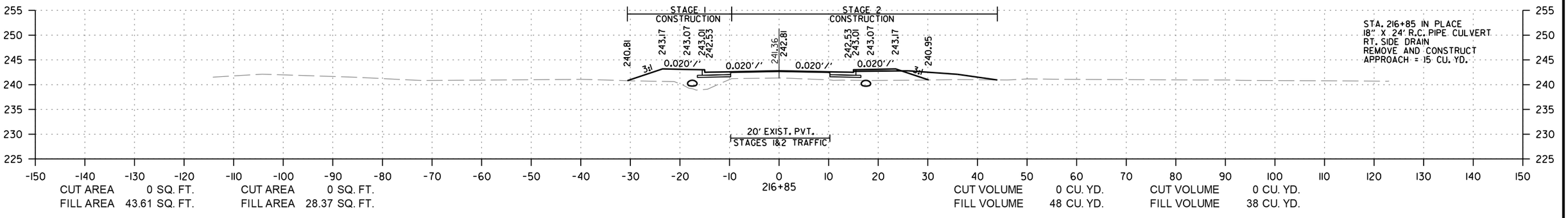


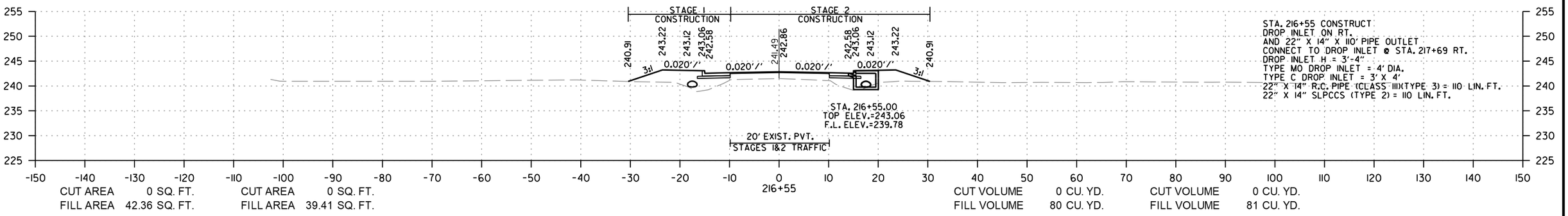
HWY. 190 EAST
STA. 214+87 TO STA. 215+67

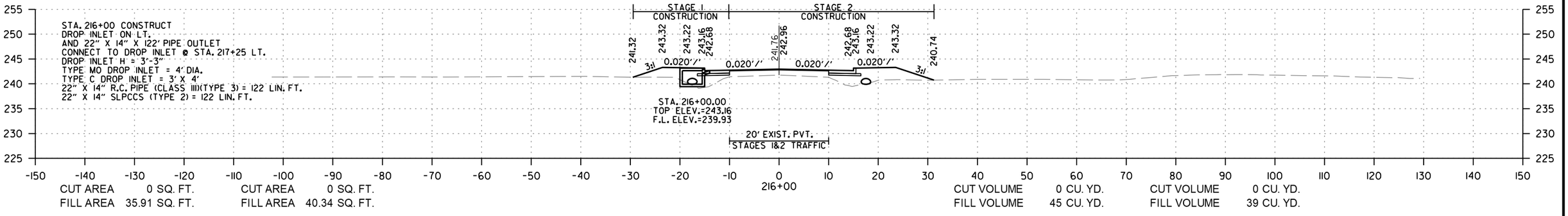
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	101	168
		CROSS SECTIONS				





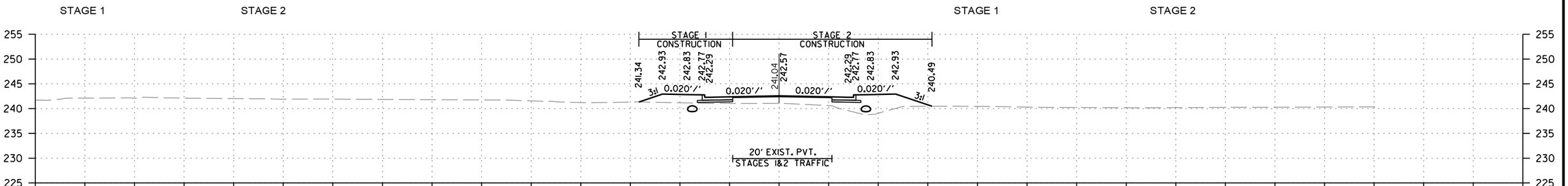


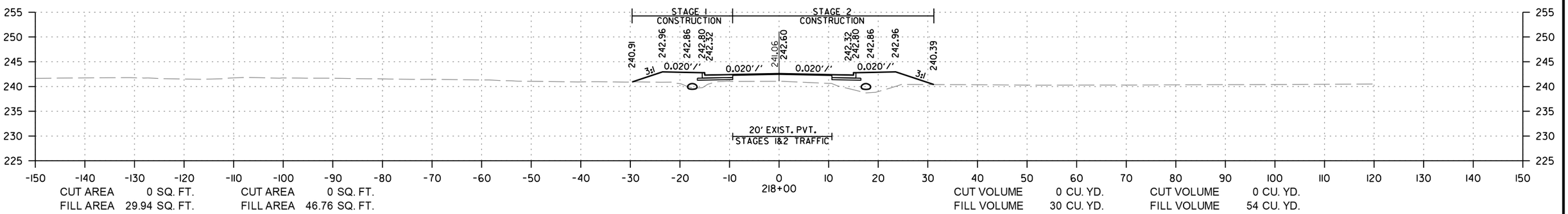


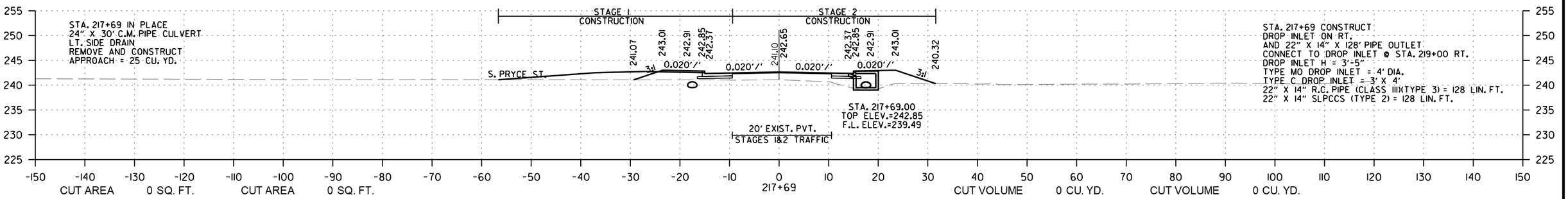
HWY. 190 EAST
STA. 216+00 TO STA. 217+00

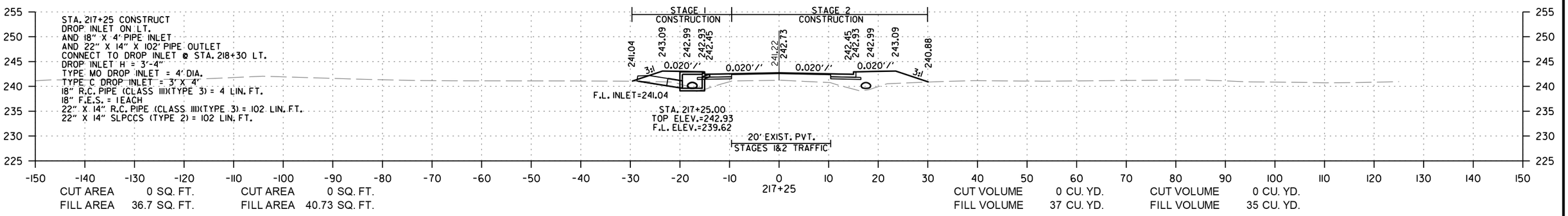
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R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	102	168
		CROSS SECTIONS				





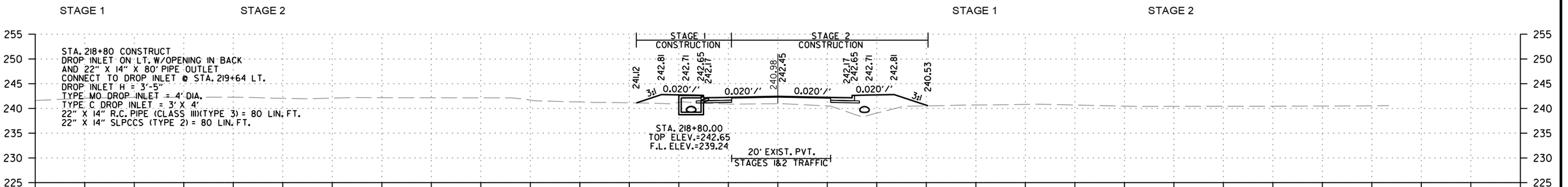


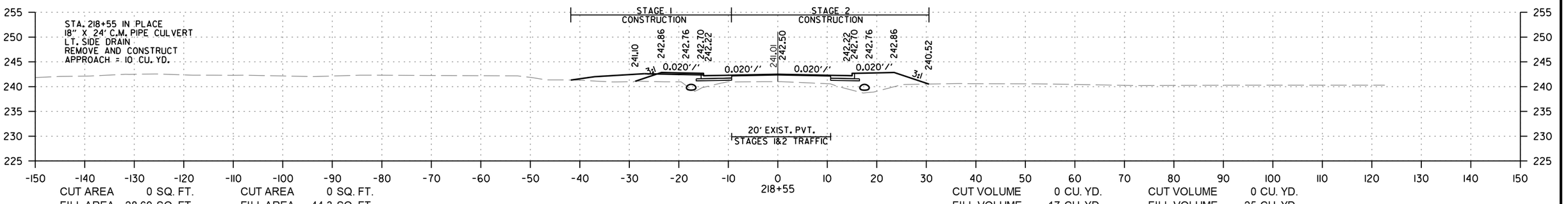


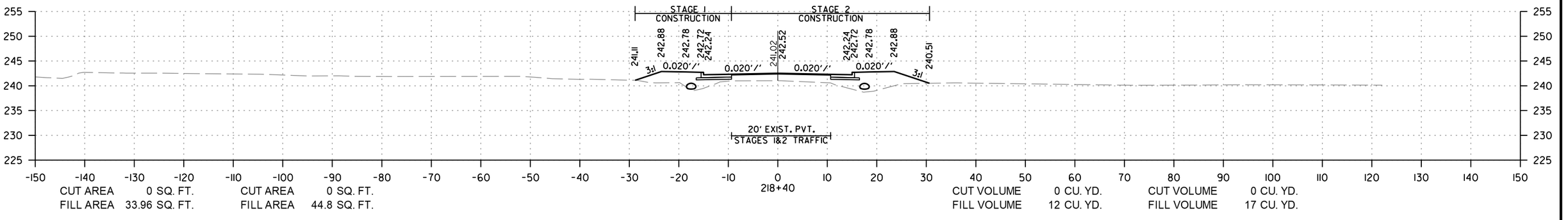
HWY. 190 EAST
STA. 217+25 TO STA. 218+15

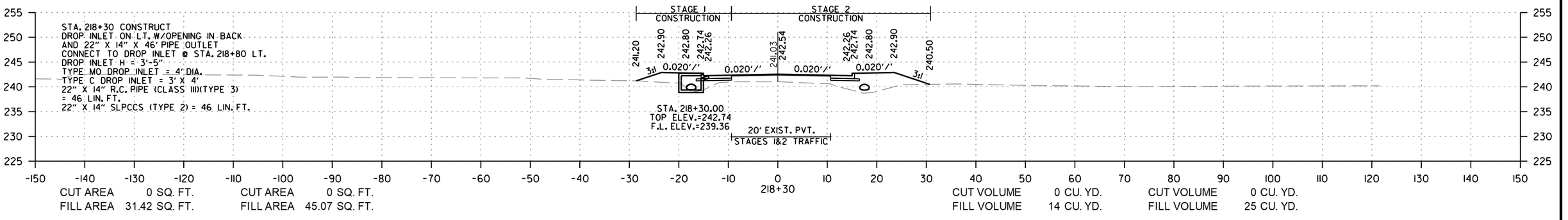
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	103	168
		CROSS SECTIONS				





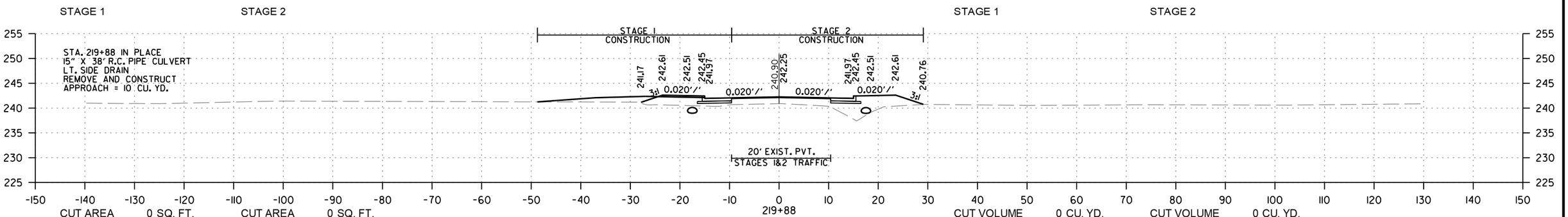


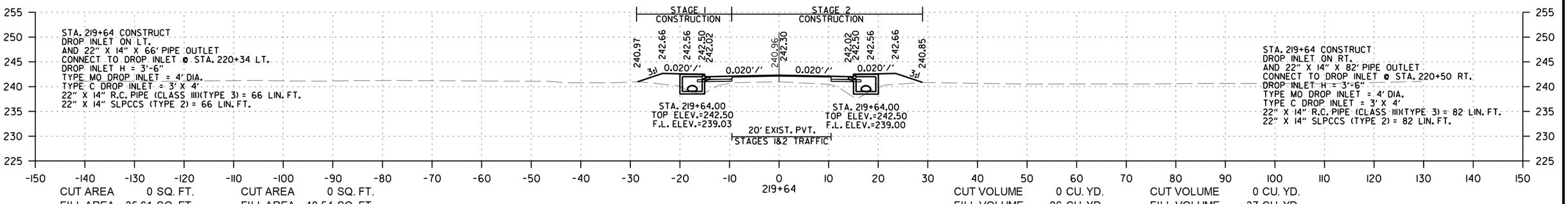


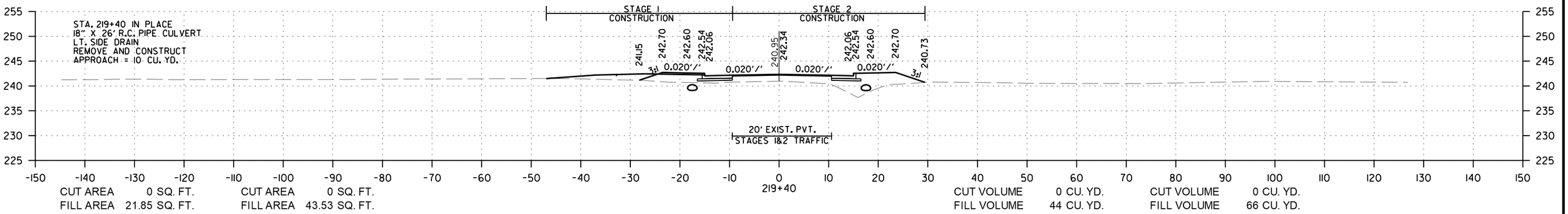
HWY. 190 EAST
STA. 218+30 TO STA. 218+80

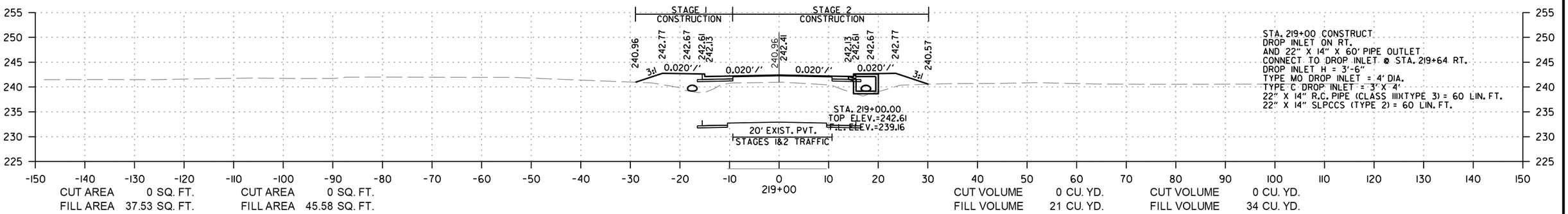
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	104	168
		CROSS SECTIONS				





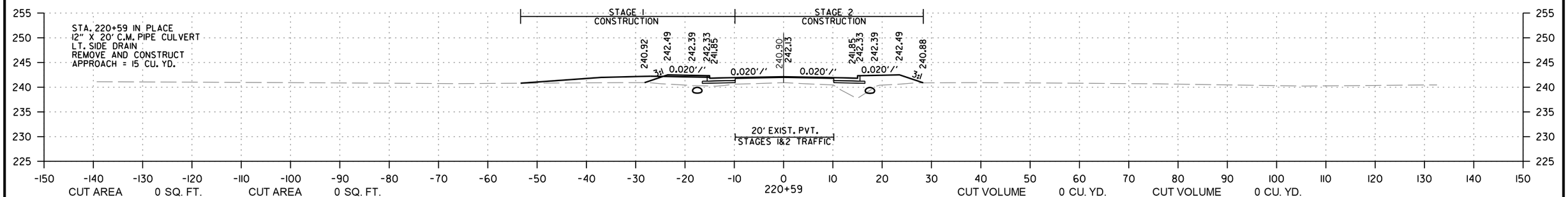


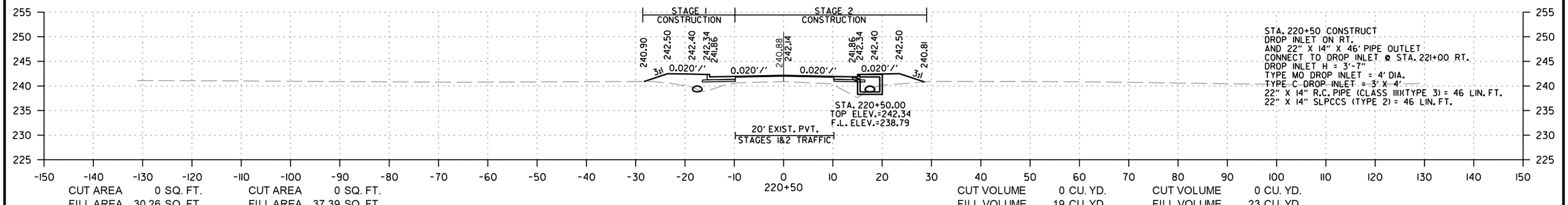


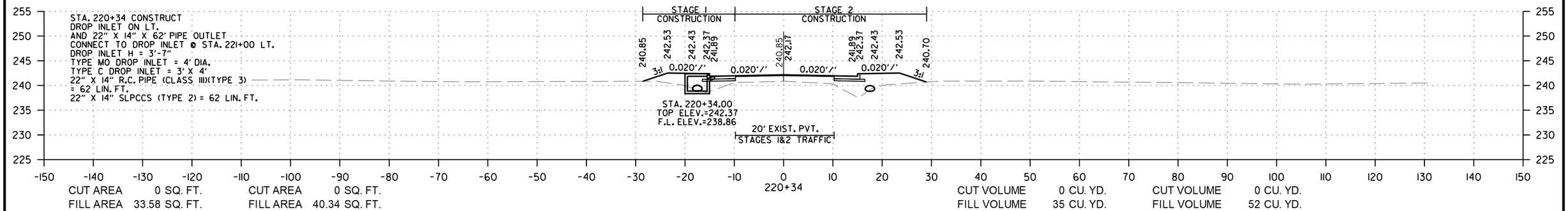
HWY. 190 EAST
STA. 219+00 TO STA. 219+88

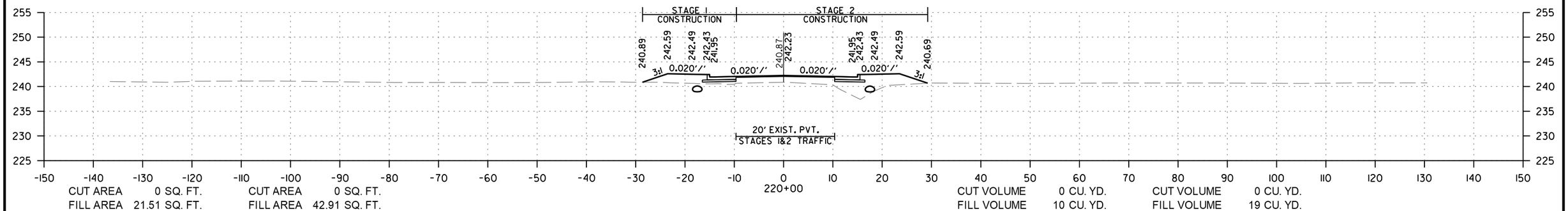
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	105	168
		CROSS SECTIONS				





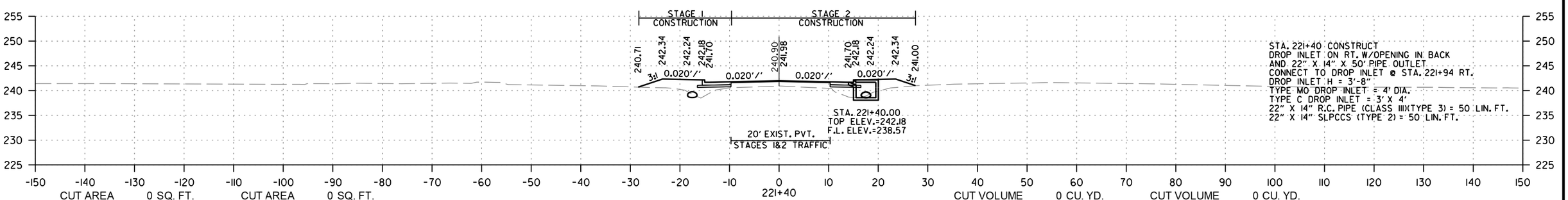




HWY. 190 EAST
STA. 220+00 TO STA. 220+59

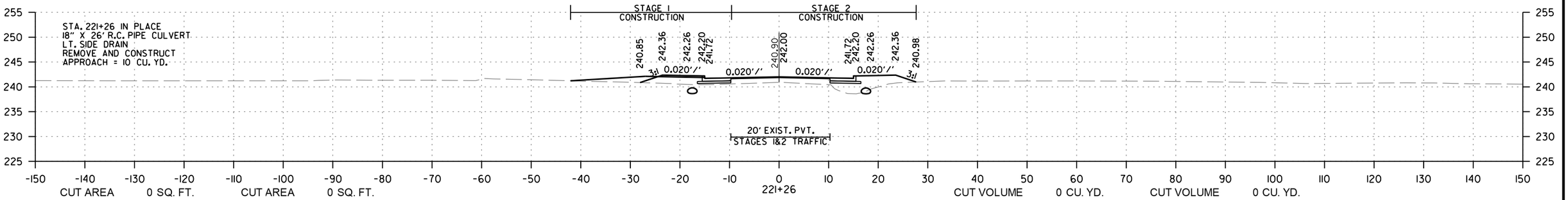
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	106	168
		CROSS SECTIONS				



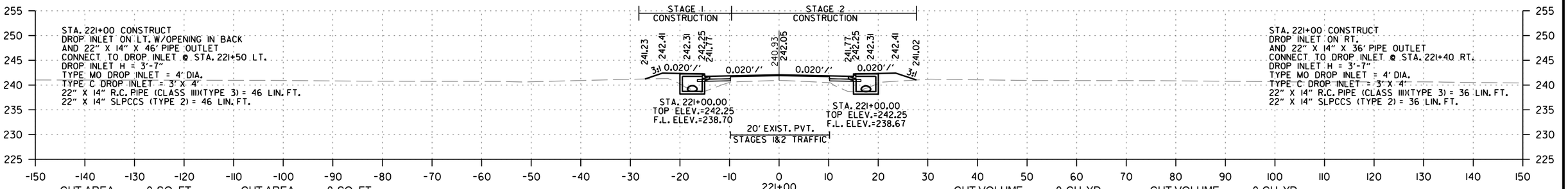
CUT AREA	0 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	27.75 SQ. FT.	FILL AREA	31.46 SQ. FT.

CUT VOLUME	0 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	12 CU. YD.	FILL VOLUME	16 CU. YD.



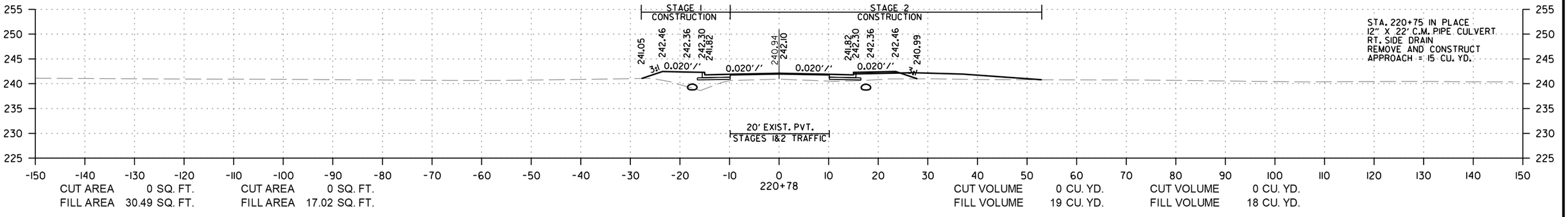
CUT AREA	0 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	18.73 SQ. FT.	FILL AREA	31.46 SQ. FT.

CUT VOLUME	0 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	22 CU. YD.	FILL VOLUME	30 CU. YD.



CUT AREA	0 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	27.21 SQ. FT.	FILL AREA	30.06 SQ. FT.

CUT VOLUME	0 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	24 CU. YD.	FILL VOLUME	19 CU. YD.



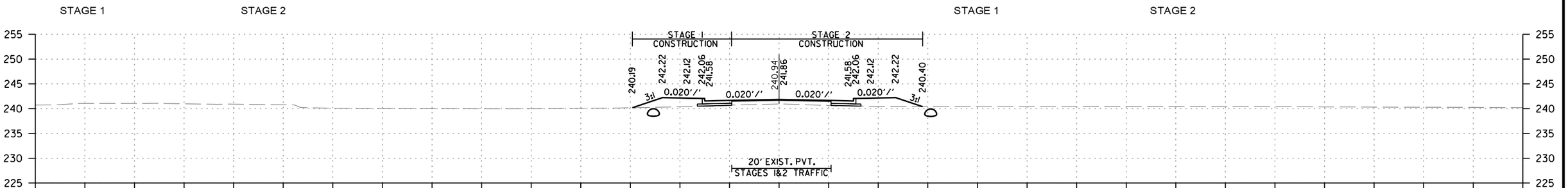
CUT AREA	0 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	30.49 SQ. FT.	FILL AREA	17.02 SQ. FT.

CUT VOLUME	0 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	19 CU. YD.	FILL VOLUME	18 CU. YD.

HWY. 190 EAST
STA. 220+78 TO STA. 221+40

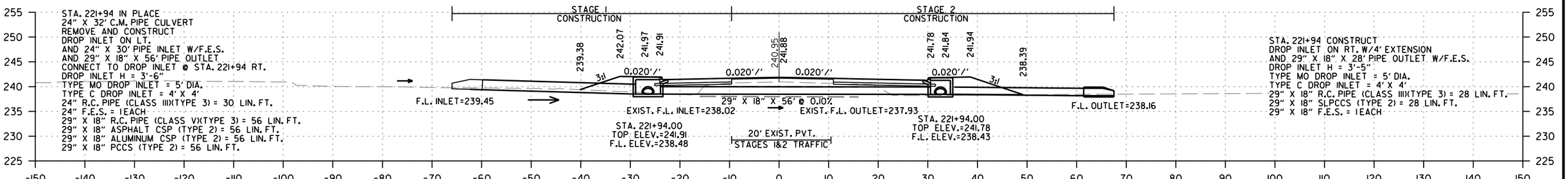
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	107	168
		CROSS SECTIONS				



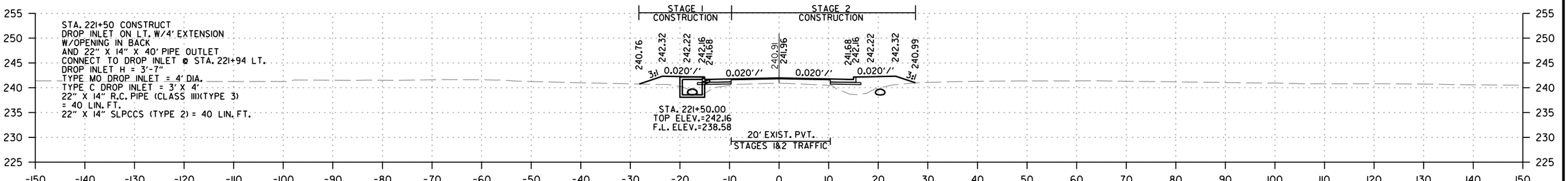
CUT AREA 0.03 SQ. FT. CUT AREA 0.03 SQ. FT.
FILL AREA 19.71 SQ. FT. FILL AREA 18 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 8 CU. YD. FILL VOLUME 4 CU. YD.



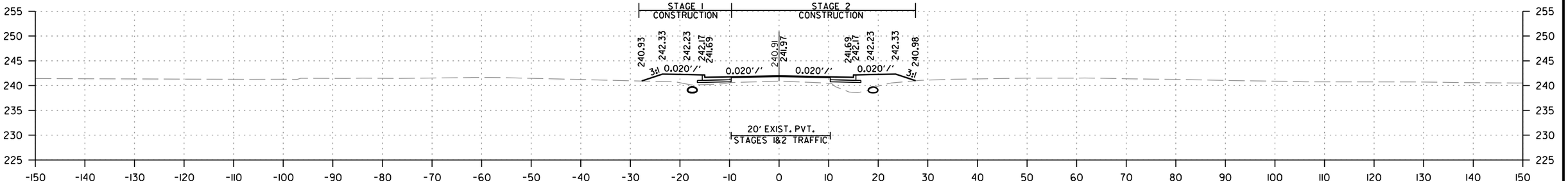
CUT AREA 0.38 SQ. FT. CUT AREA 0.89 SQ. FT.
FILL AREA 53.32 SQ. FT. FILL AREA 18.08 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 66 CU. YD. FILL VOLUME 40 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 27.07 SQ. FT. FILL AREA 30.95 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 4 CU. YD. FILL VOLUME 6 CU. YD.



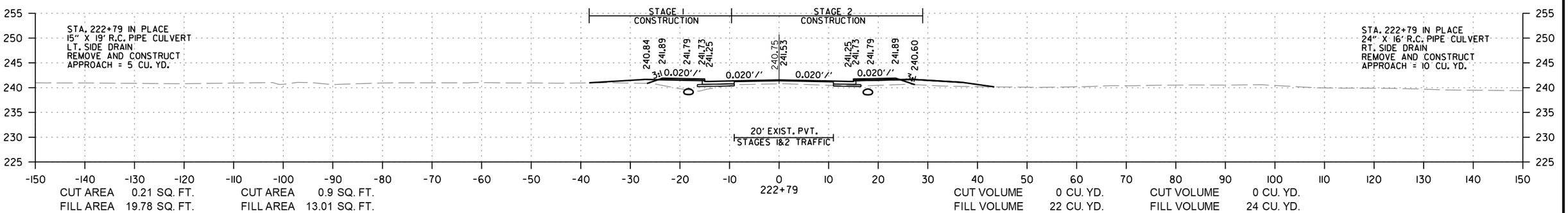
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 19.14 SQ. FT. FILL AREA 31.23 SQ. FT.

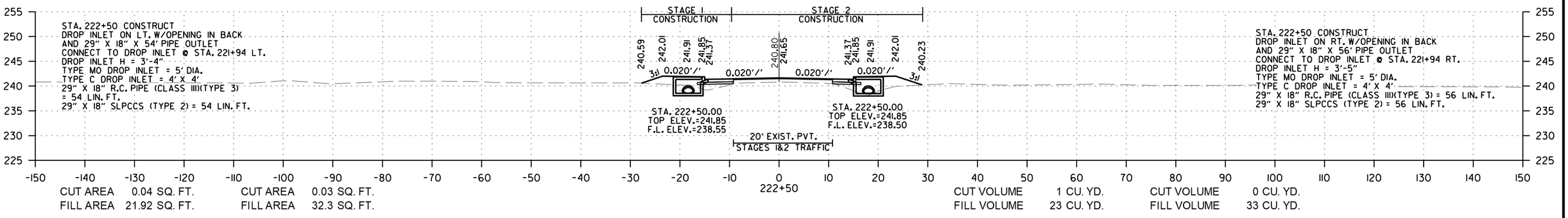
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 4 CU. YD. FILL VOLUME 6 CU. YD.

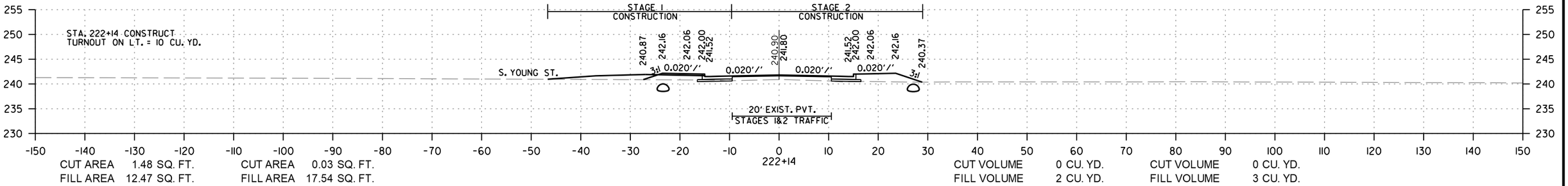
HWY. 190 EAST
STA. 221+45 TO STA. 222+00

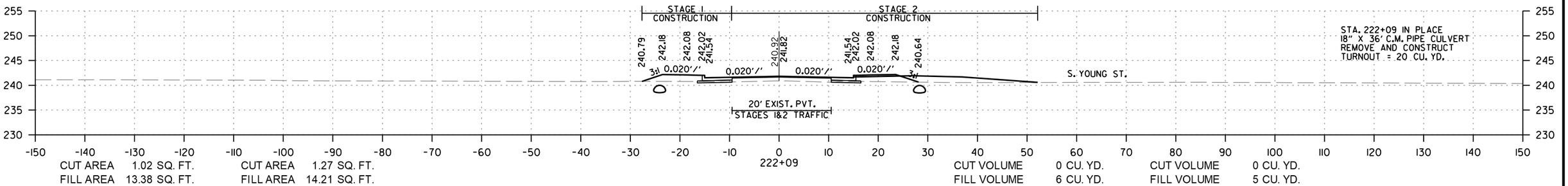
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	108	168
		CROSS SECTIONS				





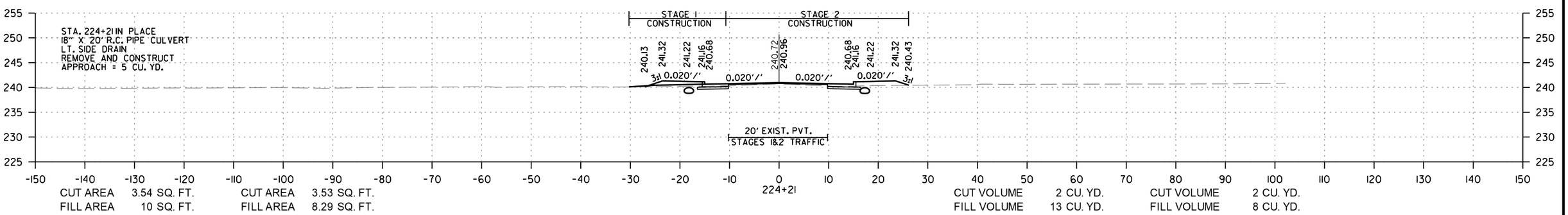


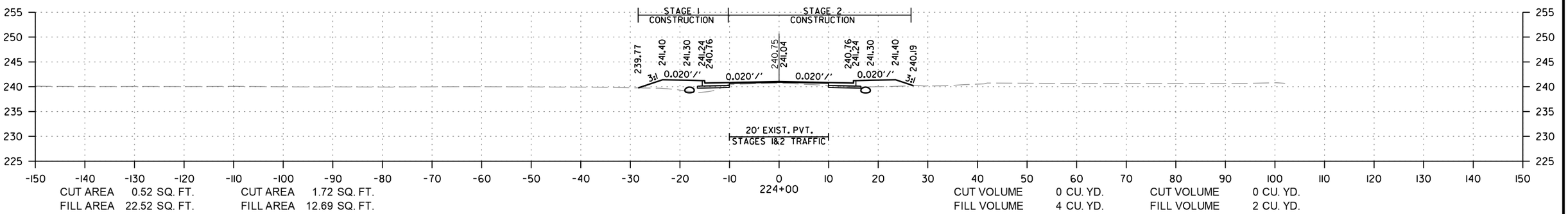


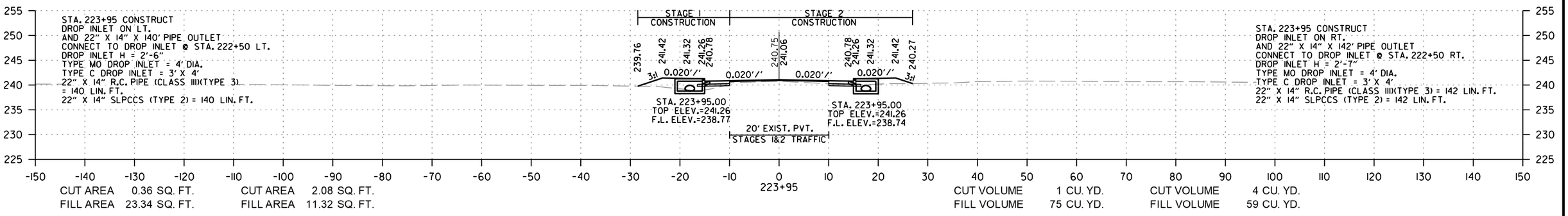
HWY. 190 EAST
STA. 222+09 TO STA. 222+79

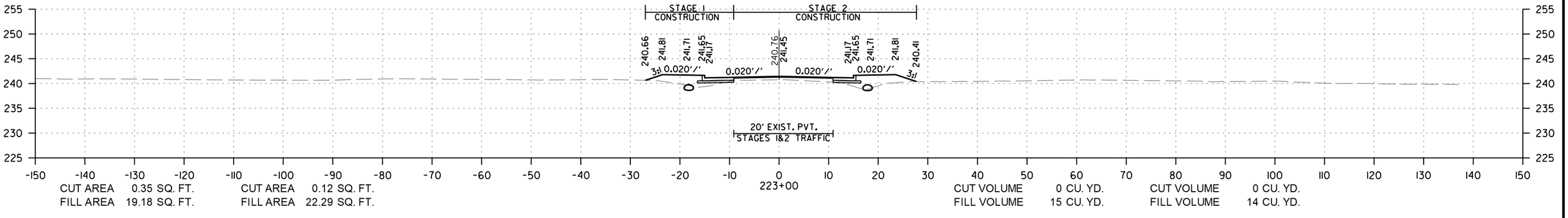
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	109	168
		CROSS SECTIONS				





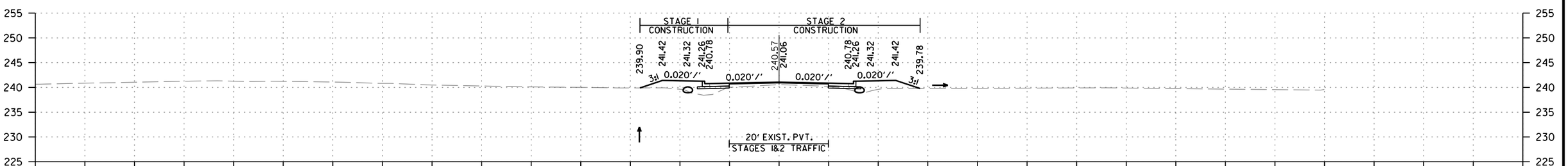




HWY. 190 EAST
STA. 223+00 TO STA. 224+21

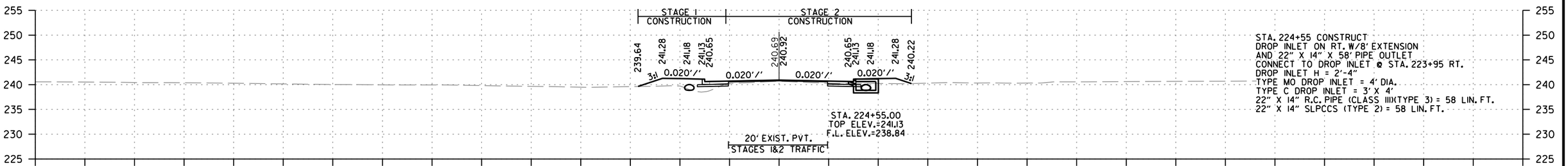
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	110	168
		CROSS SECTIONS				



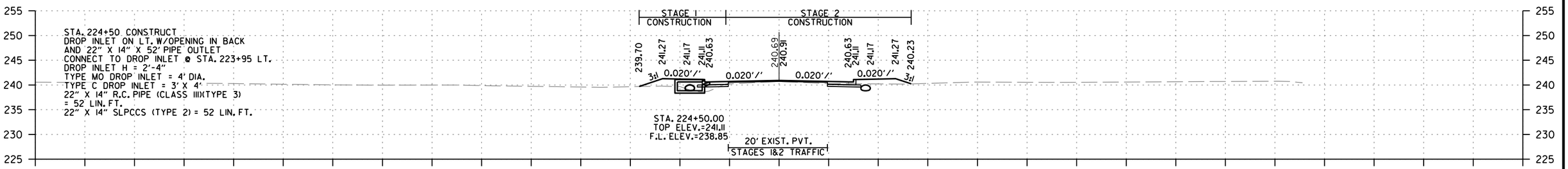
CUT AREA 0.07 SQ. FT. CUT AREA 0.55 SQ. FT.
FILL AREA 23.19 SQ. FT. FILL AREA 19.62 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 4 CU. YD.
FILL VOLUME 37 CU. YD. FILL VOLUME 24 CU. YD.



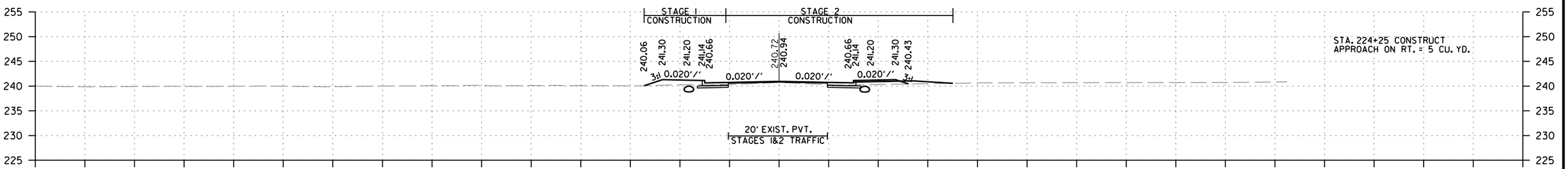
CUT AREA 0.53 SQ. FT. CUT AREA 3.79 SQ. FT.
FILL AREA 21.05 SQ. FT. FILL AREA 9.59 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 4 CU. YD. FILL VOLUME 2 CU. YD.



CUT AREA 0.58 SQ. FT. CUT AREA 3.9 SQ. FT.
FILL AREA 20.25 SQ. FT. FILL AREA 9.42 SQ. FT.

CUT VOLUME 2 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 14 CU. YD. FILL VOLUME 8 CU. YD.



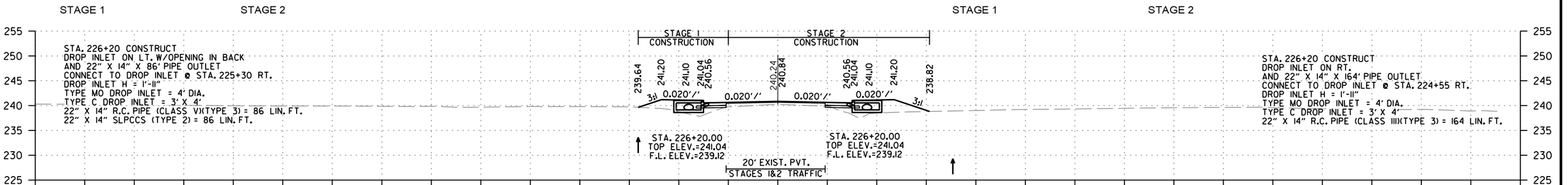
CUT AREA 3.61 SQ. FT. CUT AREA 3.46 SQ. FT.
FILL AREA 9.87 SQ. FT. FILL AREA 8.48 SQ. FT.

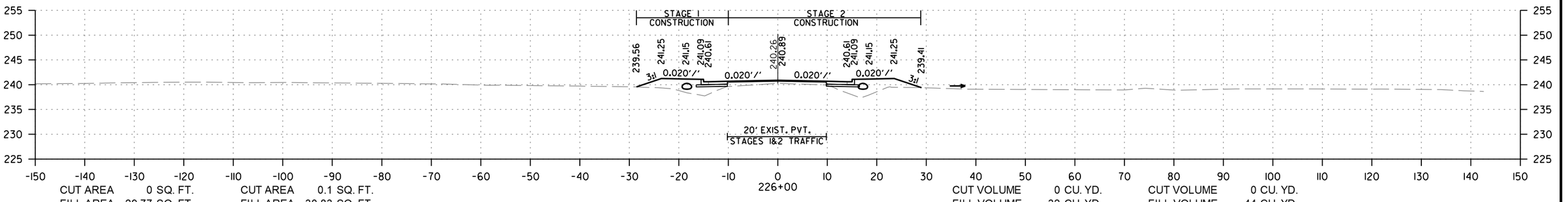
CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.

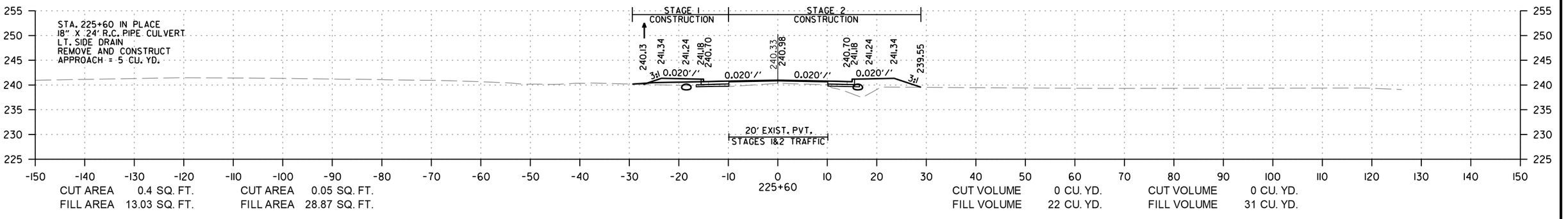
HWY. 190 EAST
STA. 224+25 TO STA. 225+00

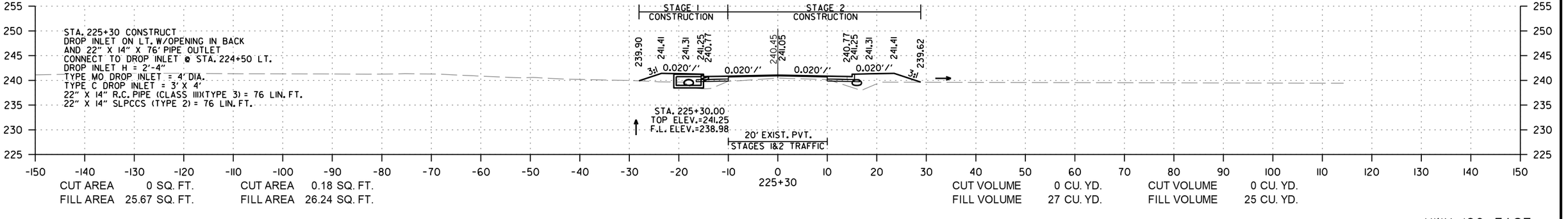
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	111	168
		CROSS SECTIONS				





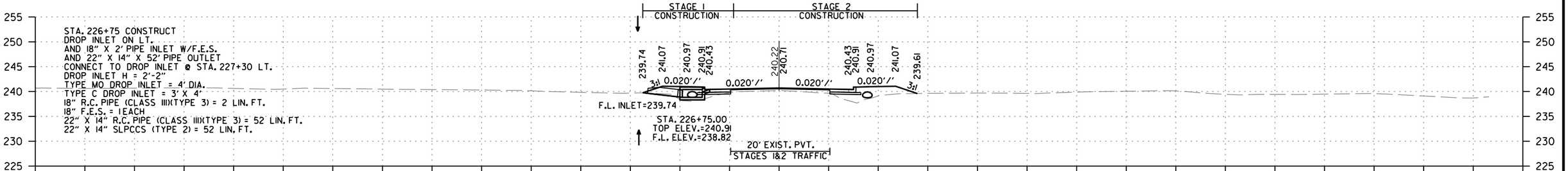


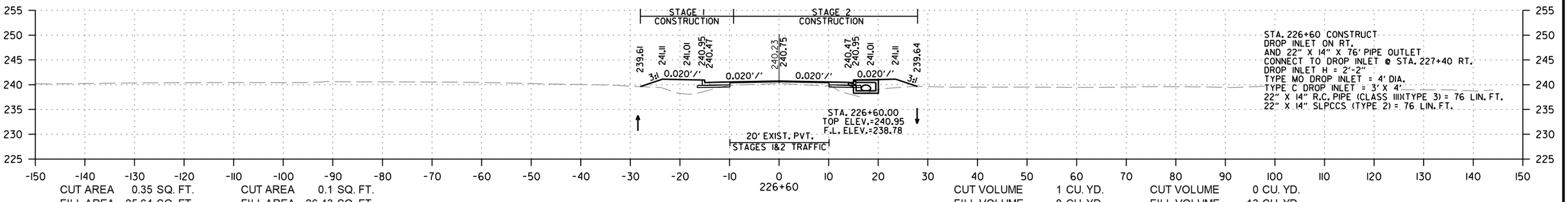


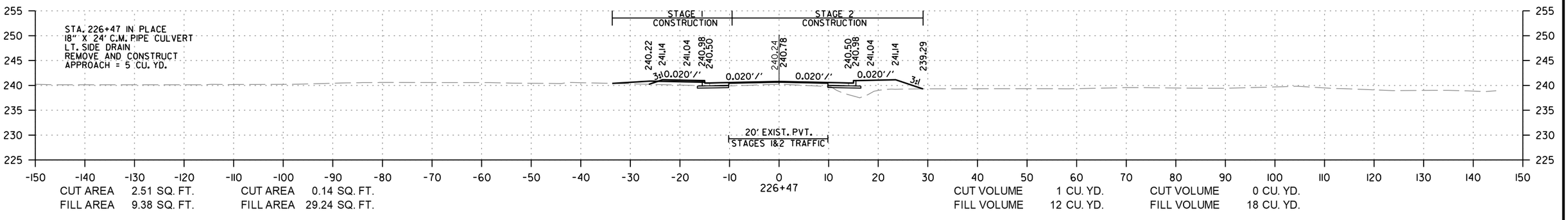
HWY. 190 EAST
STA. 225+30 TO STA. 226+20

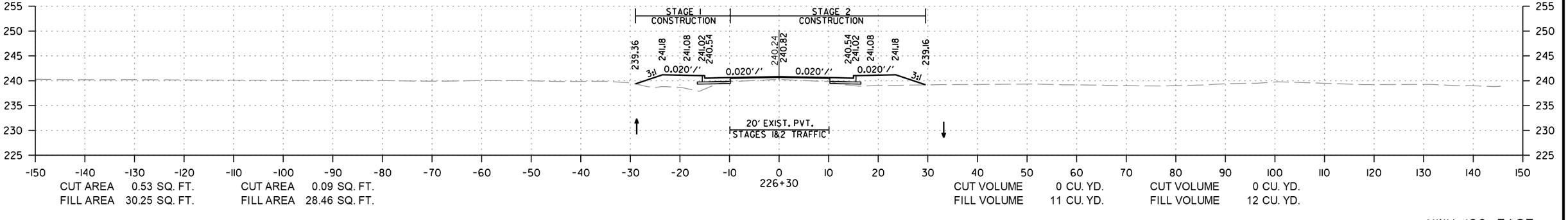
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	112	168
		CROSS SECTIONS				







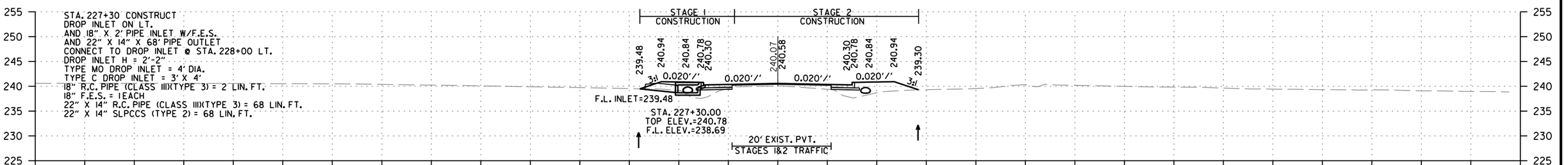


HWY. 190 EAST
STA. 226+30 TO STA. 226+75

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R020628.DGN MicroStation v8.11.9.578

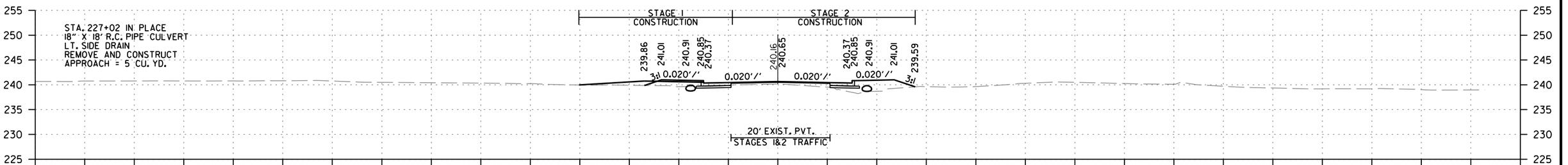
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	113	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



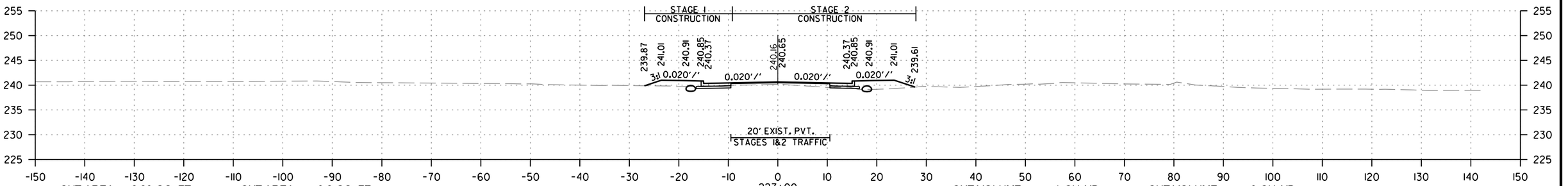
CUT AREA 0.27 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 24.53 SQ. FT. FILL AREA 27.37 SQ. FT.

CUT VOLUME 2 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 19 CU. YD. FILL VOLUME 26 CU. YD.



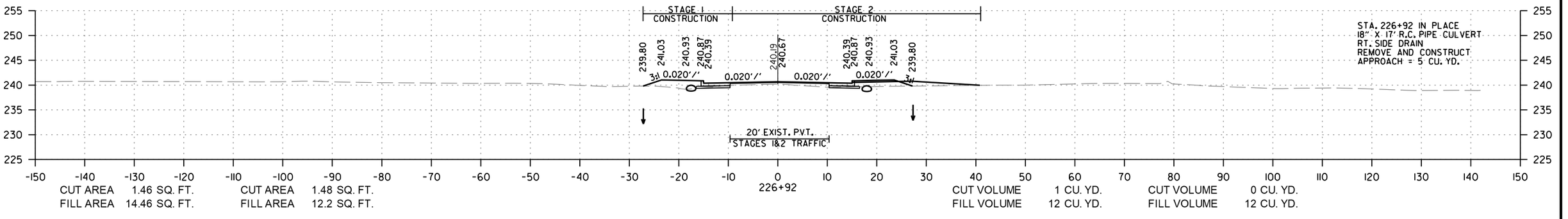
CUT AREA 2.65 SQ. FT. CUT AREA 0.03 SQ. FT.
FILL AREA 11.79 SQ. FT. FILL AREA 23.25 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.



CUT AREA 2.89 SQ. FT. CUT AREA 0.8 SQ. FT.
FILL AREA 11.46 SQ. FT. FILL AREA 17.08 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 4 CU. YD. FILL VOLUME 4 CU. YD.



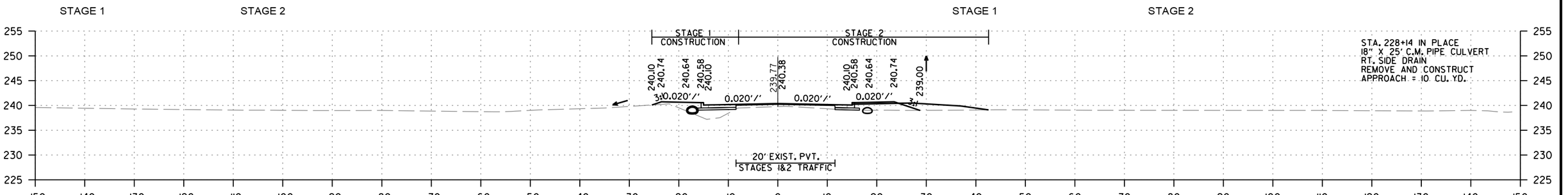
CUT AREA 1.46 SQ. FT. CUT AREA 1.48 SQ. FT.
FILL AREA 14.46 SQ. FT. FILL AREA 12.2 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 12 CU. YD. FILL VOLUME 12 CU. YD.

HWY. 190 EAST
STA. 226+92 TO STA. 227+30

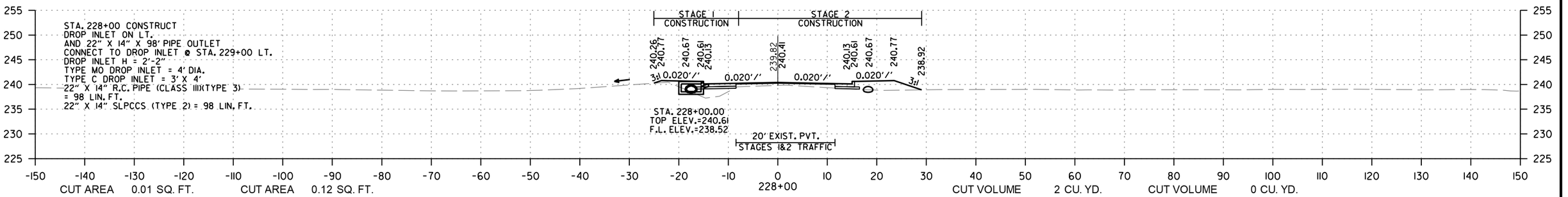
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	114	168
		CROSS SECTIONS				



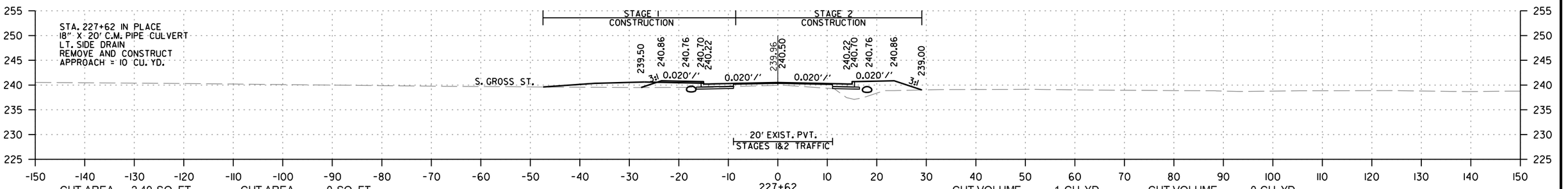
CUT AREA 0 SQ. FT. CUT AREA 0.29 SQ. FT.
FILL AREA 20.53 SQ. FT. FILL AREA 17.07 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 11 CU. YD. FILL VOLUME 9 CU. YD.



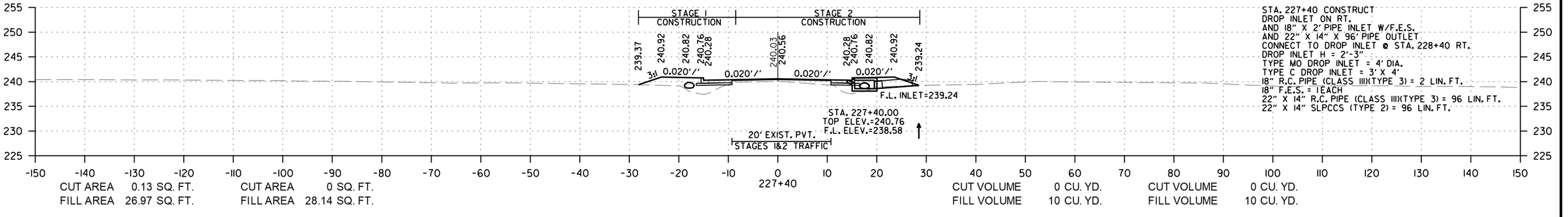
CUT AREA 0.01 SQ. FT. CUT AREA 0.12 SQ. FT.
FILL AREA 20 SQ. FT. FILL AREA 19.47 SQ. FT.

CUT VOLUME 2 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 23 CU. YD. FILL VOLUME 36 CU. YD.



CUT AREA 2.49 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 12.74 SQ. FT. FILL AREA 31.58 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 16 CU. YD. FILL VOLUME 24 CU. YD.



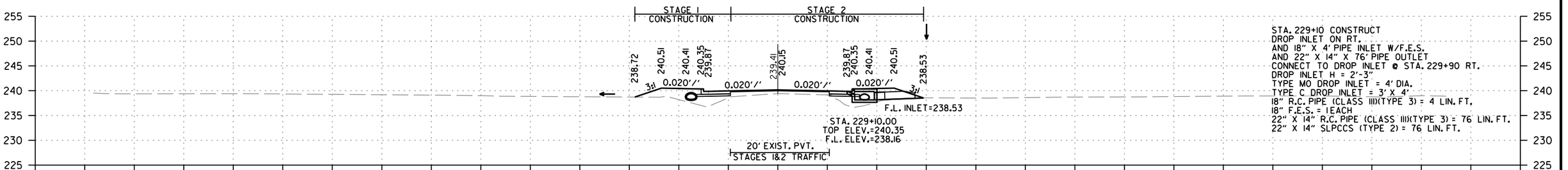
CUT AREA 0.13 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 26.97 SQ. FT. FILL AREA 28.14 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 10 CU. YD. FILL VOLUME 10 CU. YD.

HWY. 190 EAST
STA. 227+40 TO STA. 228+14

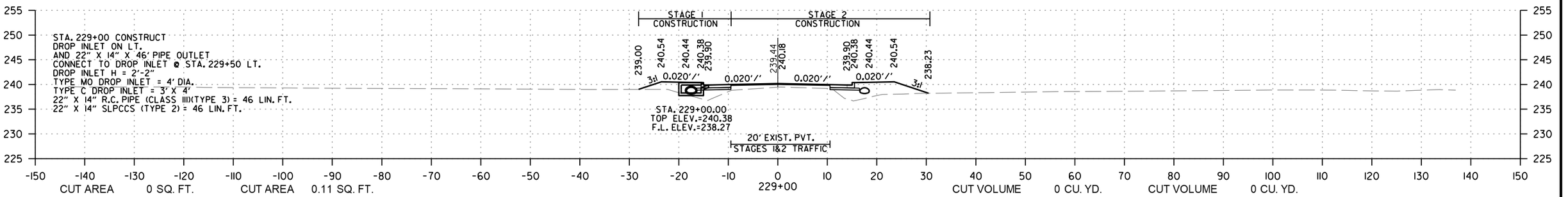
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	115	168
		CROSS SECTIONS				



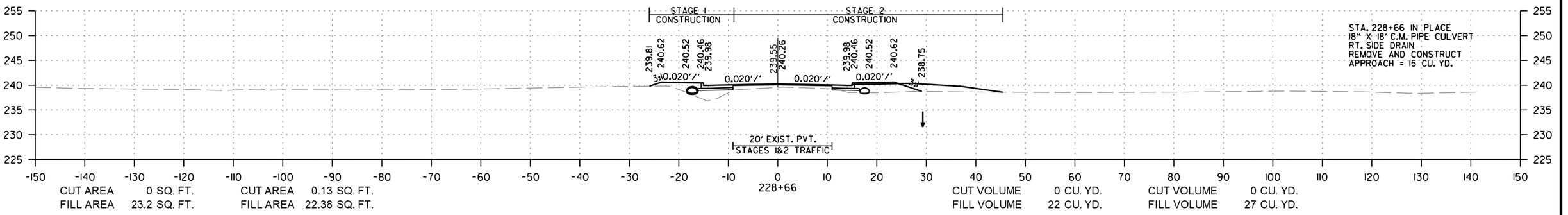
CUT AREA 0 SQ. FT. CUT AREA 0.1 SQ. FT.
FILL AREA 31.52 SQ. FT. FILL AREA 35.58 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 11 CU. YD. FILL VOLUME 14 CU. YD.



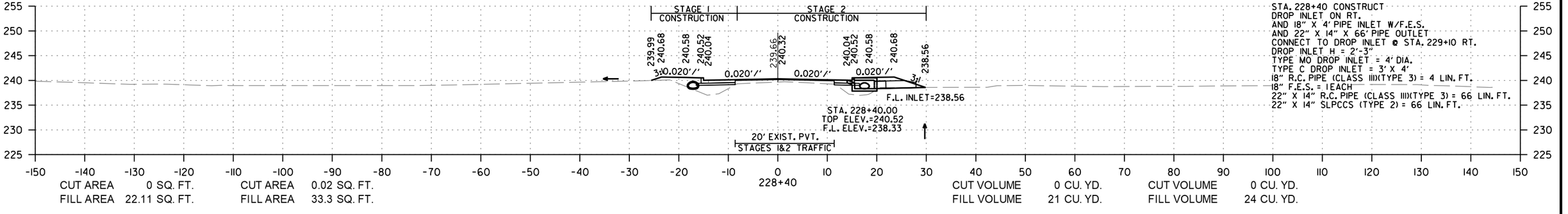
CUT AREA 0 SQ. FT. CUT AREA 0.11 SQ. FT.
FILL AREA 29.26 SQ. FT. FILL AREA 37.45 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 33 CU. YD. FILL VOLUME 38 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0.13 SQ. FT.
FILL AREA 23.2 SQ. FT. FILL AREA 22.38 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 22 CU. YD. FILL VOLUME 27 CU. YD.



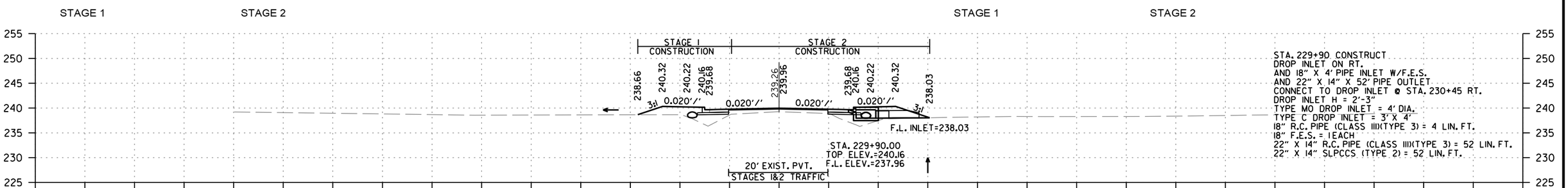
CUT AREA 0 SQ. FT. CUT AREA 0.02 SQ. FT.
FILL AREA 22.11 SQ. FT. FILL AREA 33.3 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 21 CU. YD. FILL VOLUME 24 CU. YD.

HWY. 190 EAST
STA. 228+40 TO STA. 229+10

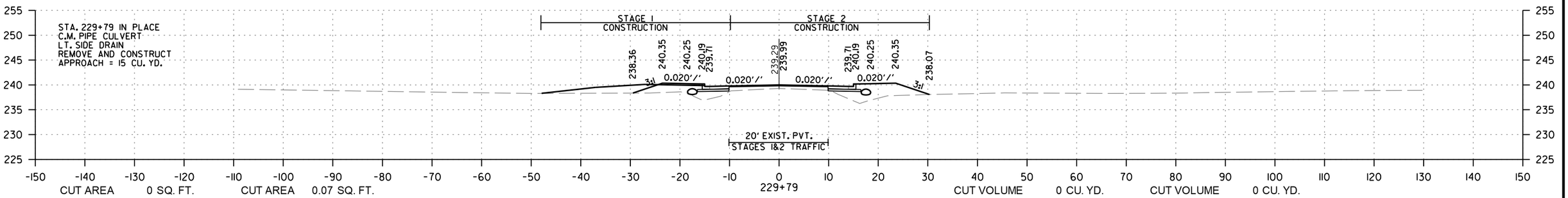
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	116	168
		CROSS SECTIONS				



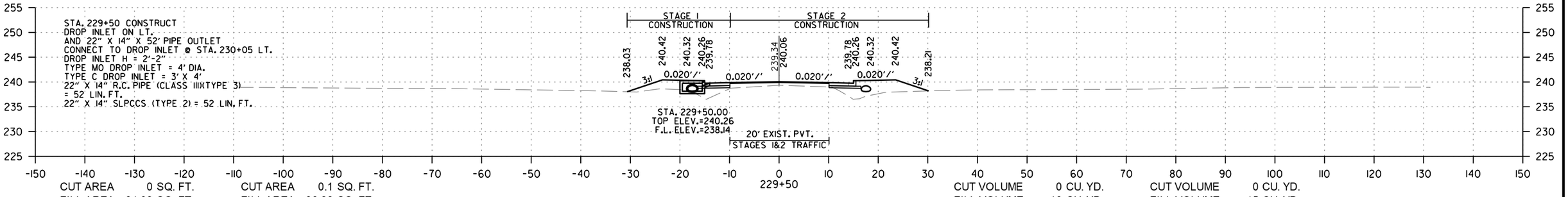
CUT AREA 0 SQ. FT. CUT AREA 0.06 SQ. FT.
FILL AREA 27.46 SQ. FT. FILL AREA 37.35 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 11 CU. YD. FILL VOLUME 15 CU. YD.



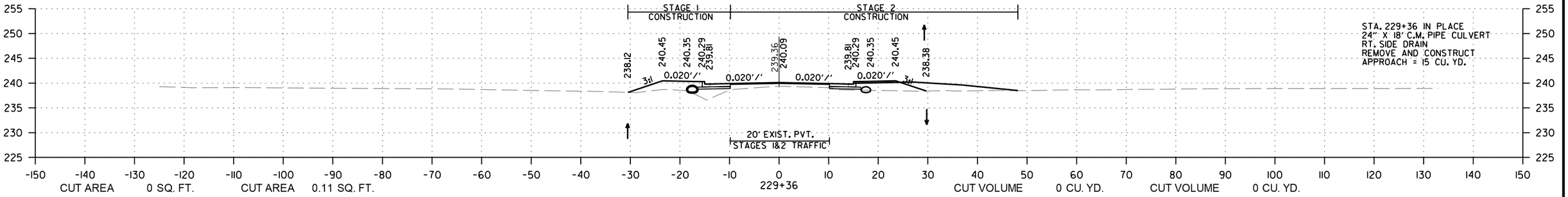
CUT AREA 0 SQ. FT. CUT AREA 0.07 SQ. FT.
FILL AREA 28.38 SQ. FT. FILL AREA 38.33 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 32 CU. YD. FILL VOLUME 40 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0.1 SQ. FT.
FILL AREA 31.08 SQ. FT. FILL AREA 36.28 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 16 CU. YD. FILL VOLUME 15 CU. YD.



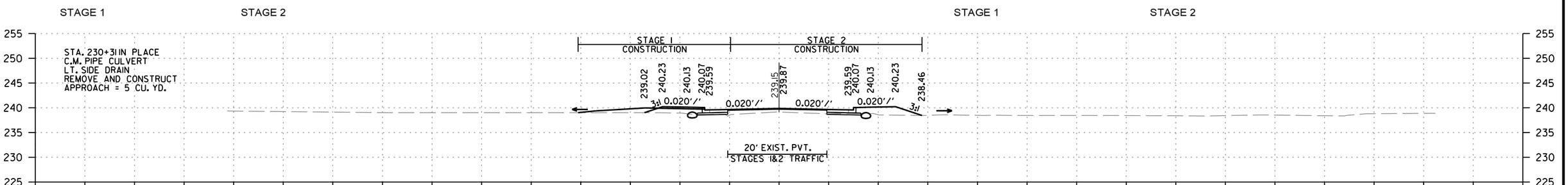
CUT AREA 0 SQ. FT. CUT AREA 0.11 SQ. FT.
FILL AREA 30.68 SQ. FT. FILL AREA 21.66 SQ. FT.

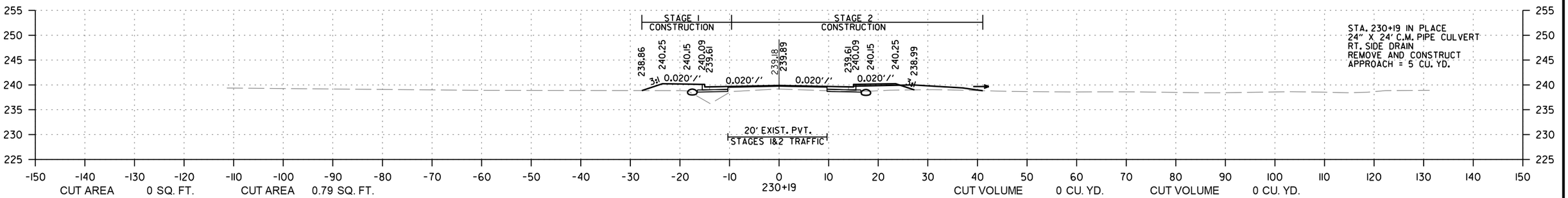
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 30 CU. YD. FILL VOLUME 28 CU. YD.

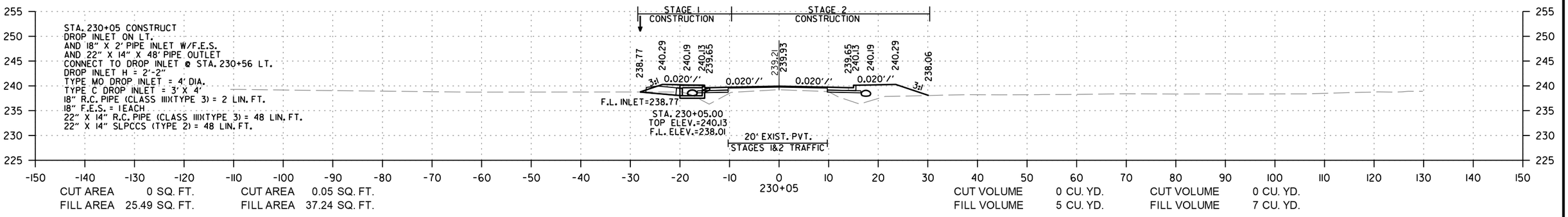
HWY. 190 EAST
STA. 229+36 TO STA. 229+90

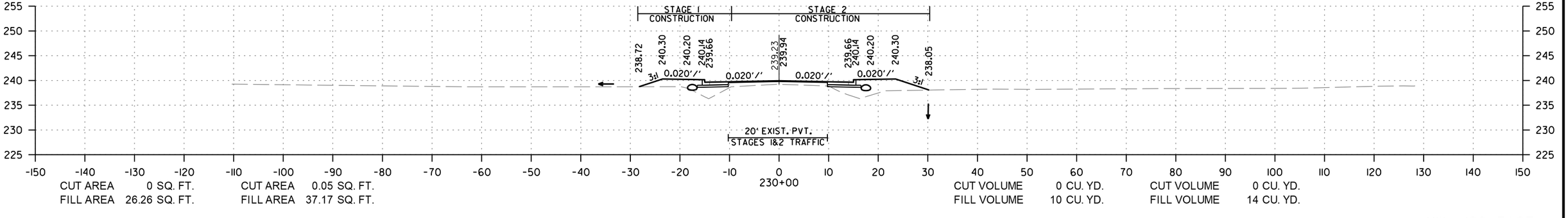
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R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	117	168
		CROSS SECTIONS				





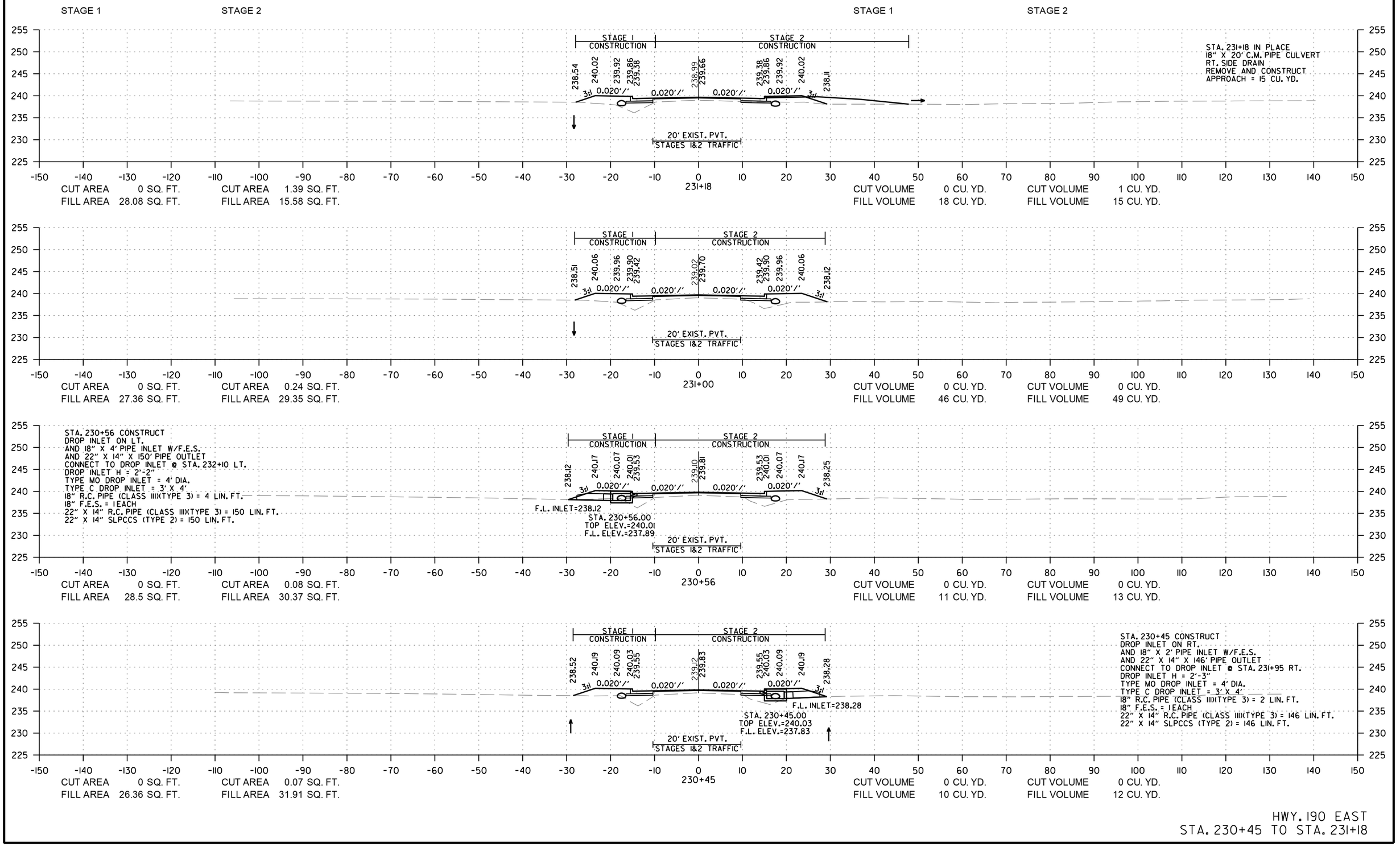




HWY. 190 EAST
STA. 230+00 TO STA. 230+31

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R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	118	168
		CROSS SECTIONS				

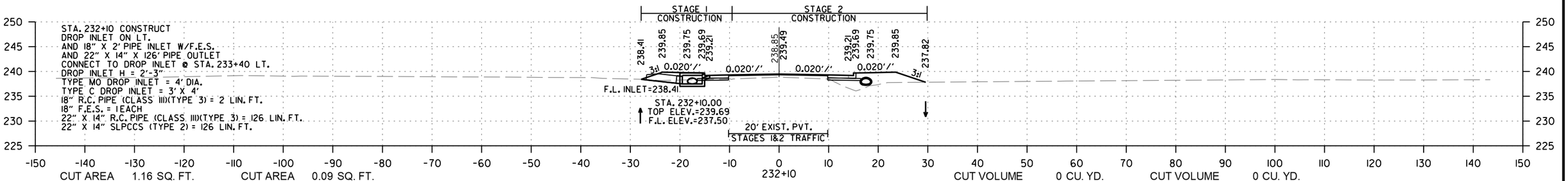


HWY. 190 EAST
STA. 230+45 TO STA. 231+18

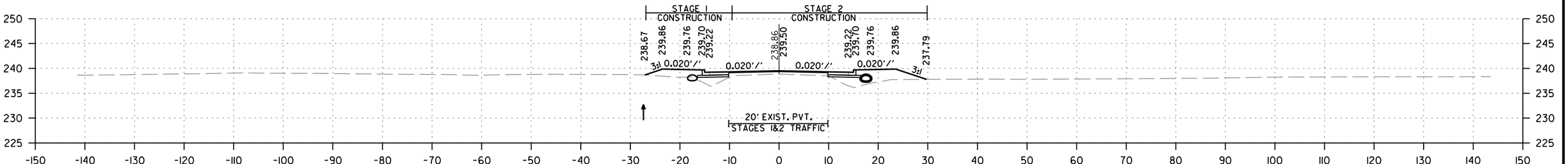
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	119	168
		CROSS SECTIONS				

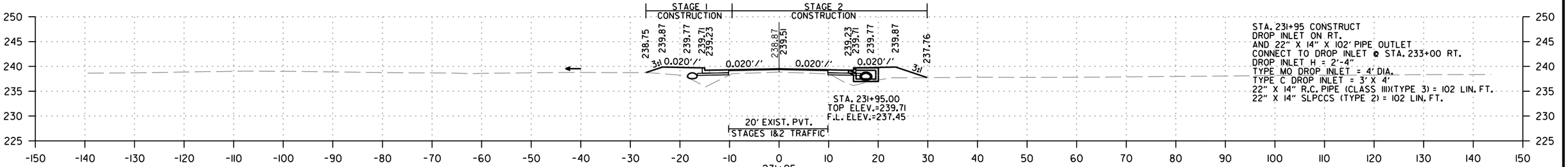
STAGE 1 STAGE 2 STAGE 1 STAGE 2



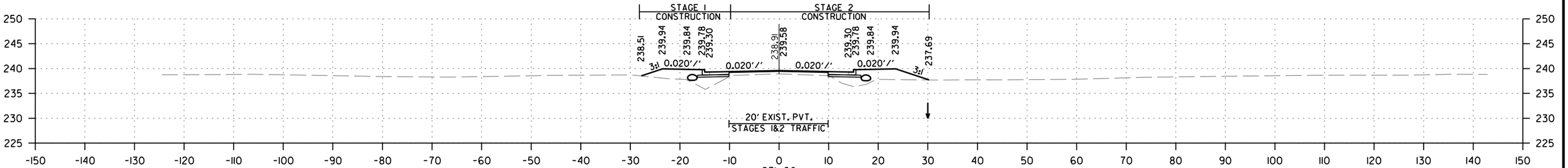
CUT AREA 1.16 SQ. FT. CUT AREA 0.09 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 15.43 SQ. FT. FILL AREA 32.39 SQ. FT. FILL VOLUME 7 CU. YD. FILL VOLUME 12 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0.08 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 21.29 SQ. FT. FILL AREA 33.54 SQ. FT. FILL VOLUME 4 CU. YD. FILL VOLUME 6 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0.08 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 24.74 SQ. FT. FILL AREA 33.85 SQ. FT. FILL VOLUME 35 CU. YD. FILL VOLUME 43 CU. YD.

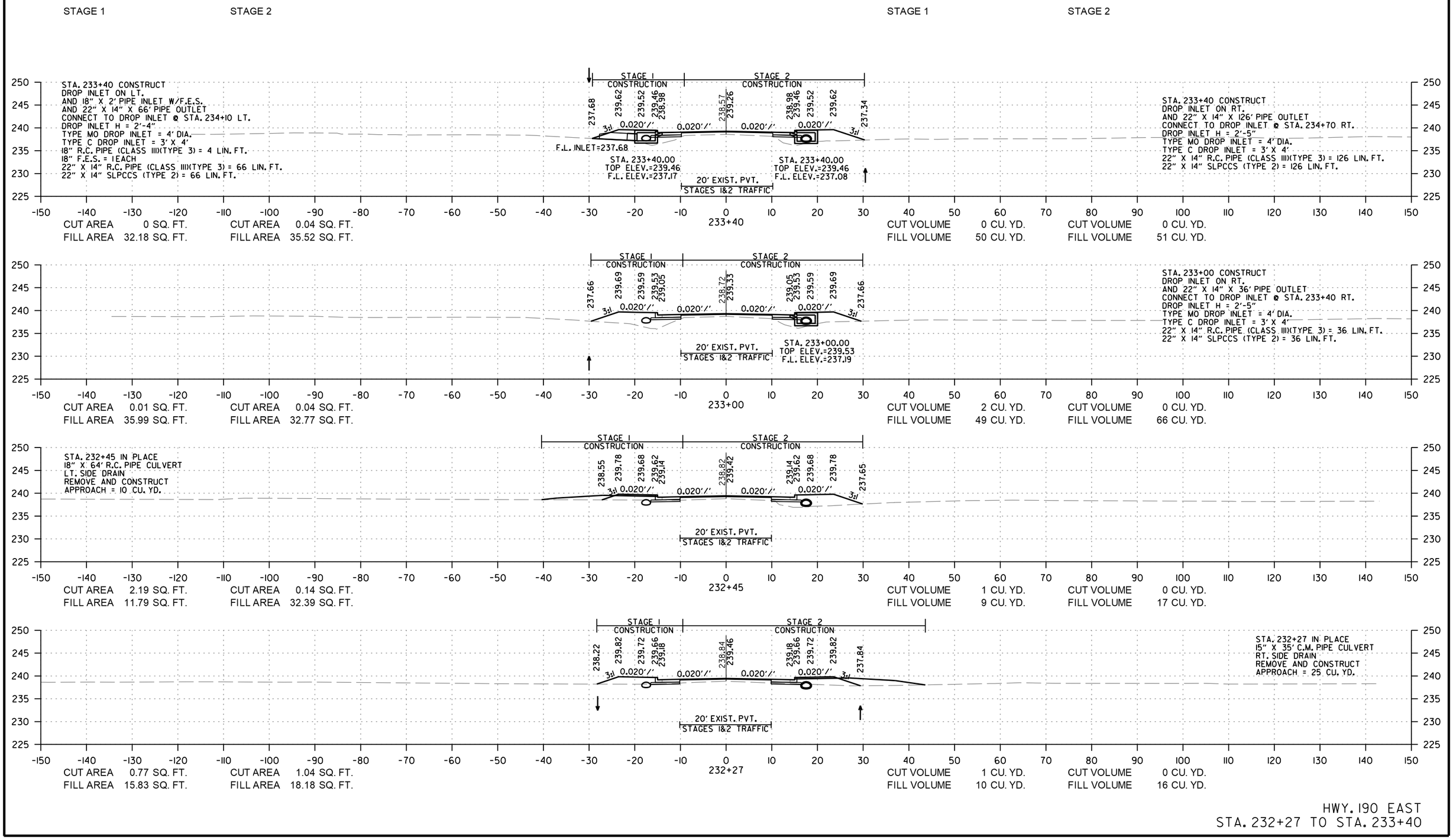


CUT AREA 0 SQ. FT. CUT AREA 0.07 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 29.64 SQ. FT. FILL AREA 33.02 SQ. FT. FILL VOLUME 45 CU. YD. FILL VOLUME 38 CU. YD.

HWY. 190 EAST
STA. 231+60 TO STA. 232+10

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	120	168
		CROSS SECTIONS				

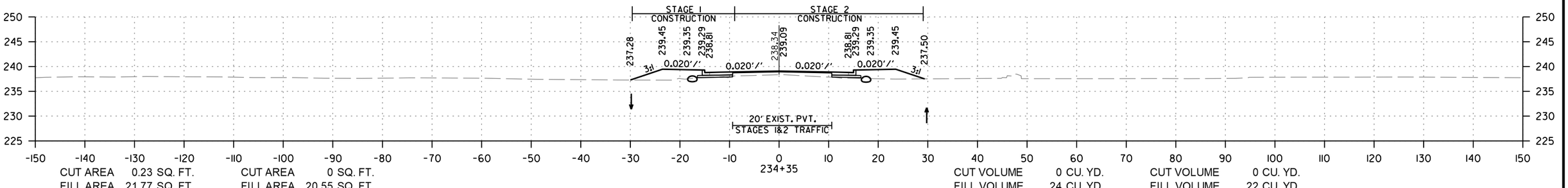


HWY. 190 EAST
STA. 232+27 TO STA. 233+40

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R020628.DGN MicroStation v8.11.9.578

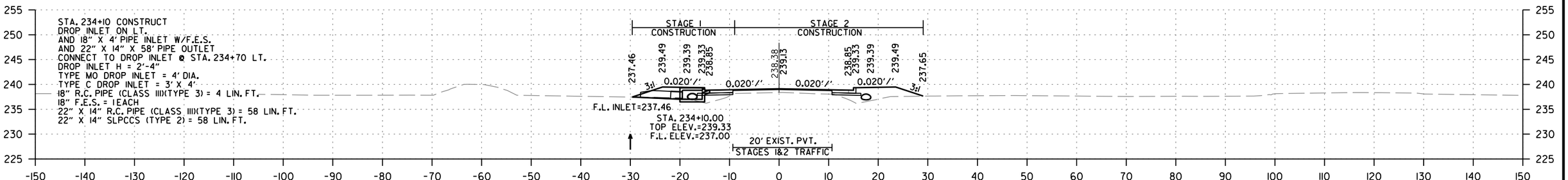
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	121	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2

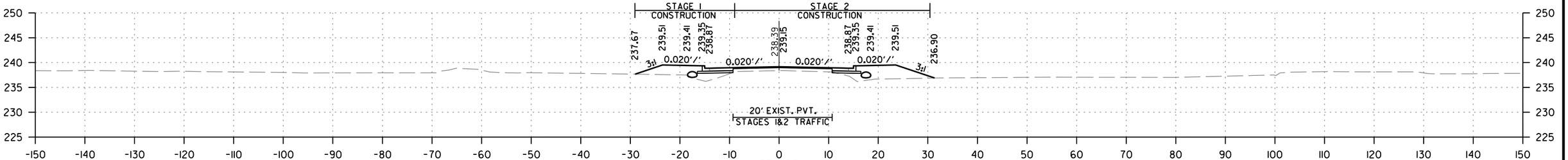


CUT AREA 0.23 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 21.77 SQ. FT. FILL AREA 20.55 SQ. FT. FILL VOLUME 24 CU. YD. FILL VOLUME 22 CU. YD.

STA. 234+10 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 58' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 234+70 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III)(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1 EACH
22" X 14" R.C. PIPE (CLASS III)(TYPE 3) = 58 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 58 LIN. FT.

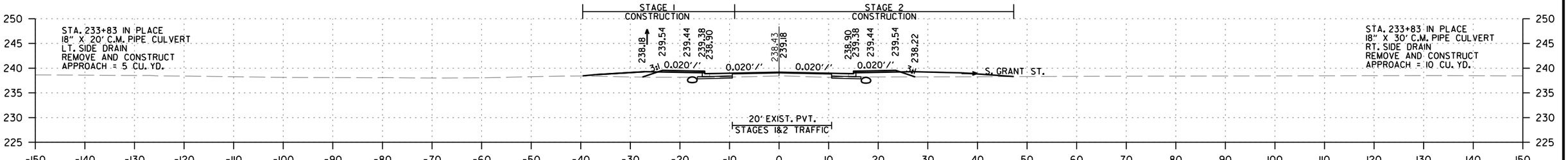


CUT AREA 0.01 SQ. FT. CUT AREA 0.06 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 30.77 SQ. FT. FILL AREA 27.85 SQ. FT. FILL VOLUME 11 CU. YD. FILL VOLUME 12 CU. YD.



CUT AREA 0.01 SQ. FT. CUT AREA 0.09 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 27.86 SQ. FT. FILL AREA 35.67 SQ. FT. FILL VOLUME 13 CU. YD. FILL VOLUME 15 CU. YD.

STA. 233+83 IN PLACE
18" X 20' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.



STA. 233+83 IN PLACE
18" X 30' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

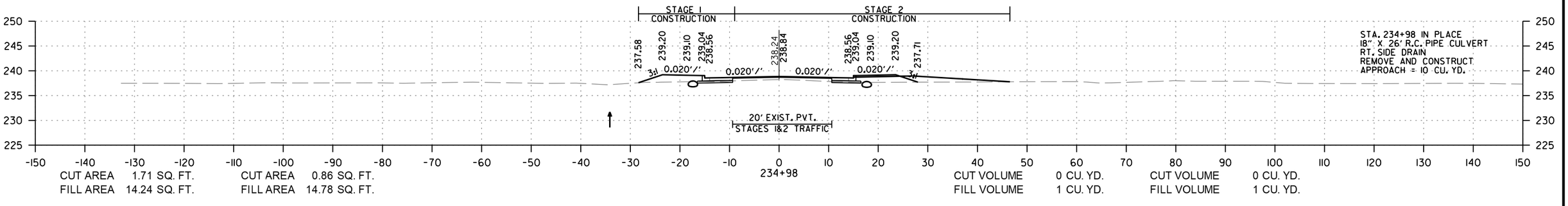
CUT AREA 1.83 SQ. FT. CUT AREA 1.78 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 12.96 SQ. FT. FILL AREA 12.57 SQ. FT. FILL VOLUME 36 CU. YD. FILL VOLUME 38 CU. YD.

HWY. 190 EAST
STA. 233+83 TO STA. 234+35

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R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	122	168
		CROSS SECTIONS				

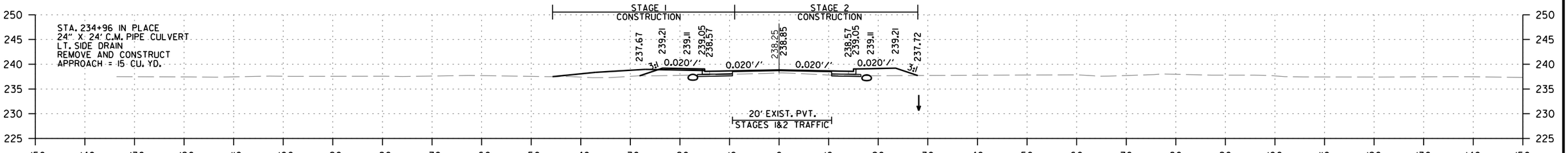
STAGE 1 STAGE 2 STAGE 1 STAGE 2



STA. 234+98 IN PLACE
18" X 26' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 10 CU. YD.

CUT AREA 1.71 SQ. FT. CUT AREA 0.86 SQ. FT.
FILL AREA 14.24 SQ. FT. FILL AREA 14.78 SQ. FT.

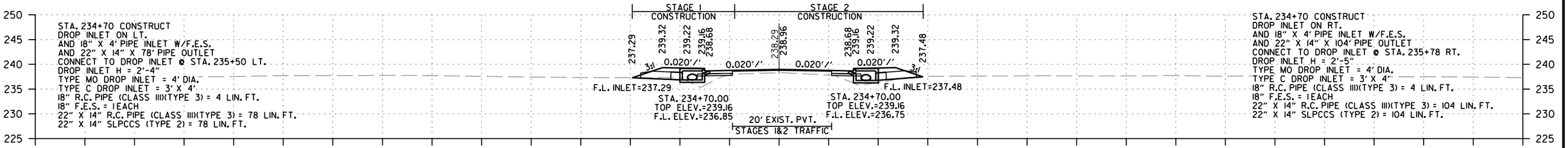
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.



STA. 234+96 IN PLACE
24" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

CUT AREA 1.89 SQ. FT. CUT AREA 0.84 SQ. FT.
FILL AREA 14.41 SQ. FT. FILL AREA 14.76 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 22 CU. YD. FILL VOLUME 23 CU. YD.

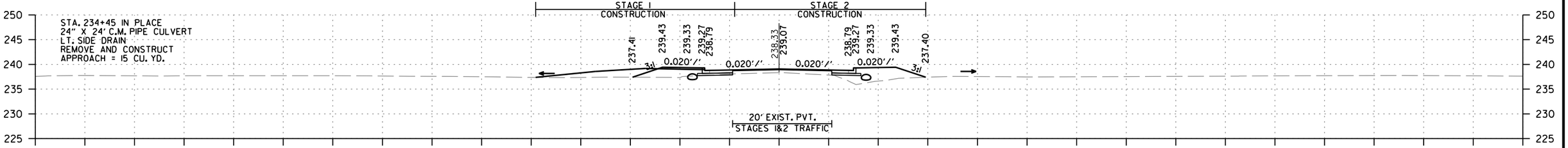


STA. 234+70 CONSTRUCT
DROP INLET ON LT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 78' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 235+50 LT.
DROP INLET H = 2'-4"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1EACH
22" X 14" R.C. PIPE (CLASS III(TYPE 3) = 78 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 78 LIN. FT.

STA. 234+70 CONSTRUCT
DROP INLET ON RT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 104' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 235+78 RT.
DROP INLET H = 2'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1EACH
22" X 14" R.C. PIPE (CLASS III(TYPE 3) = 104 LIN. FT.
22" X 14" SLPCCS (TYPE 2) = 104 LIN. FT.

CUT AREA 0.11 SQ. FT. CUT AREA 0.03 SQ. FT.
FILL AREA 30.58 SQ. FT. FILL AREA 32.99 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 24 CU. YD. FILL VOLUME 31 CU. YD.



STA. 234+45 IN PLACE
24" X 24' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 15 CU. YD.

CUT AREA 0.51 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 20.47 SQ. FT. FILL AREA 33.06 SQ. FT.

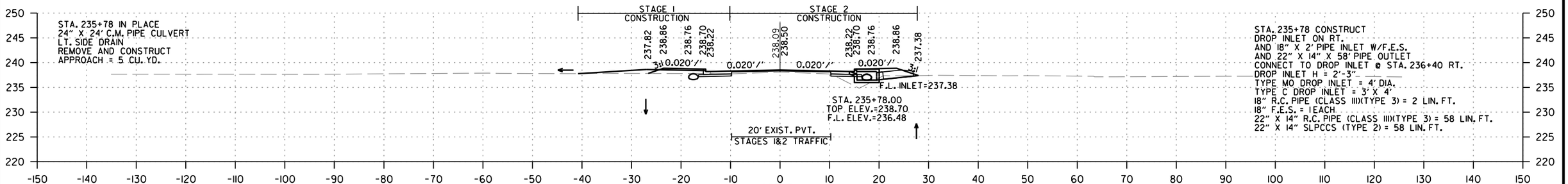
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 8 CU. YD. FILL VOLUME 10 CU. YD.

HWY. 190 EAST
STA. 234+45 TO STA. 234+98

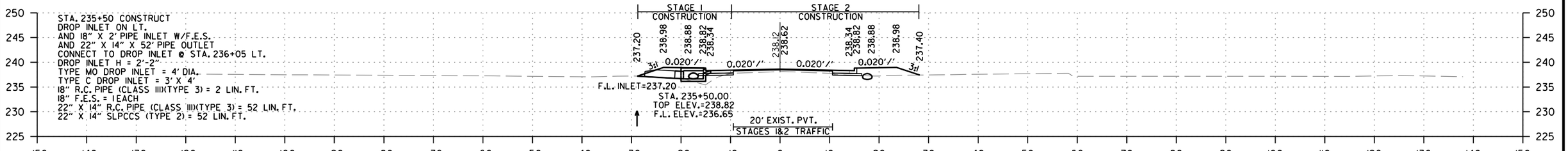
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	123	168
		CROSS SECTIONS				

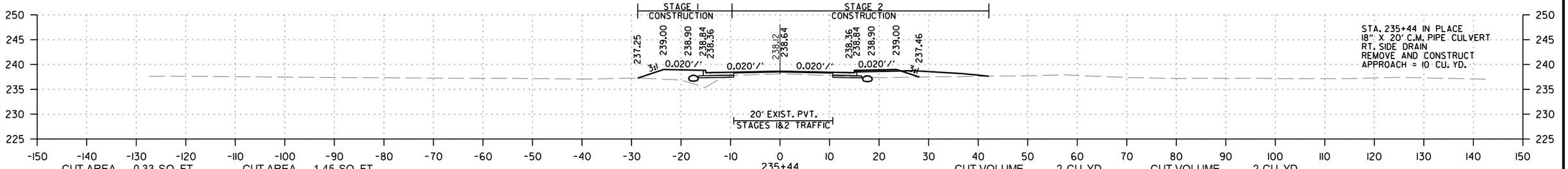
STAGE 1 STAGE 2 STAGE 1 STAGE 2



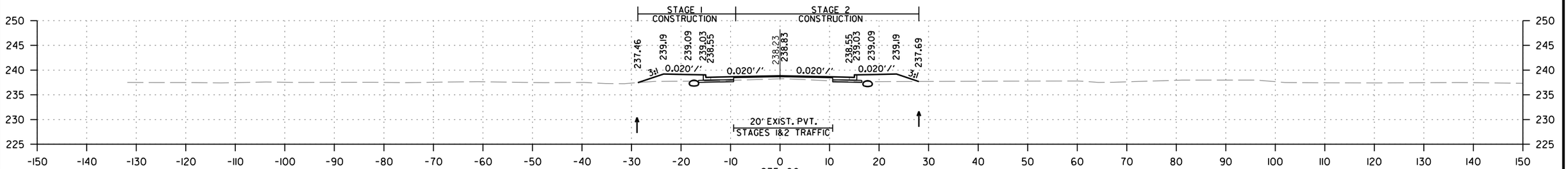
CUT AREA 3.37 SQ. FT. CUT AREA 0.18 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 9.36 SQ. FT. FILL AREA 26.26 SQ. FT. FILL VOLUME 19 CU. YD. FILL VOLUME 22 CU. YD.



CUT AREA 0.38 SQ. FT. CUT AREA 0.52 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 28.15 SQ. FT. FILL AREA 16.33 SQ. FT. FILL VOLUME 6 CU. YD. FILL VOLUME 4 CU. YD.



CUT AREA 0.33 SQ. FT. CUT AREA 1.45 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 28.11 SQ. FT. FILL AREA 15.47 SQ. FT. FILL VOLUME 35 CU. YD. FILL VOLUME 25 CU. YD.

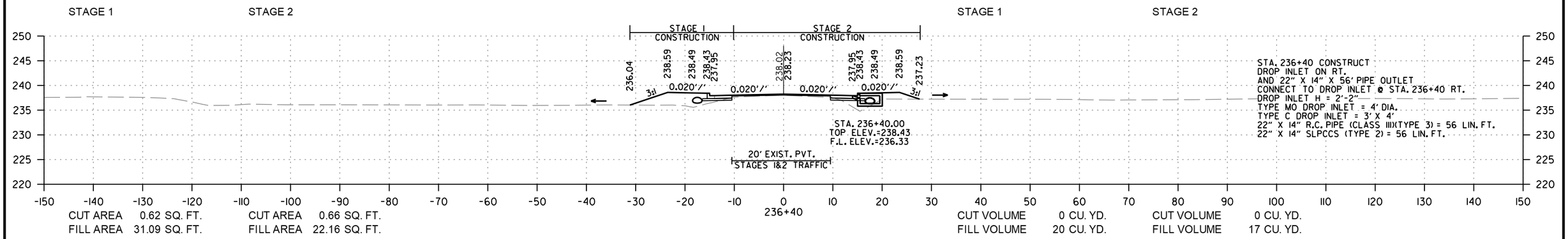


CUT AREA 1.53 SQ. FT. CUT AREA 0.88 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 14.43 SQ. FT. FILL AREA 14.83 SQ. FT. FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.

HWY. 190 EAST
STA. 235+00 TO STA. 235+78

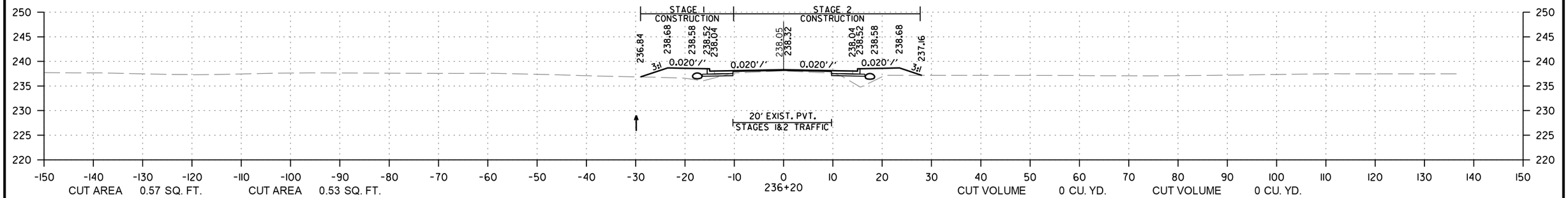
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	124	168
		CROSS SECTIONS				



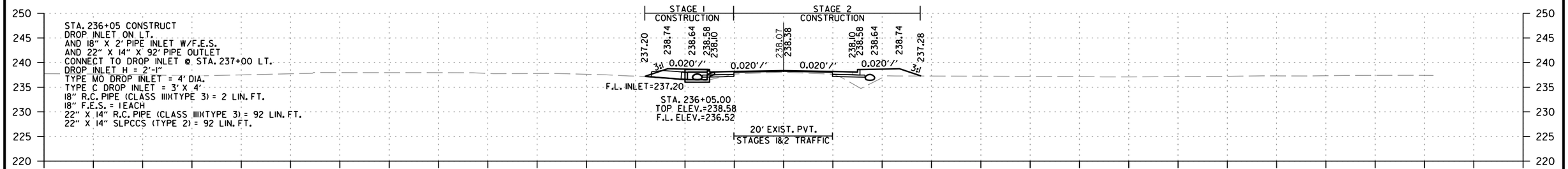
CUT AREA	0.62 SQ. FT.	CUT AREA	0.66 SQ. FT.	CUT VOLUME	0 CU. YD.
FILL AREA	31.09 SQ. FT.	FILL AREA	22.16 SQ. FT.	FILL VOLUME	20 CU. YD.

CUT VOLUME	0 CU. YD.	CUT VOLUME	0 CU. YD.		
FILL VOLUME	17 CU. YD.				



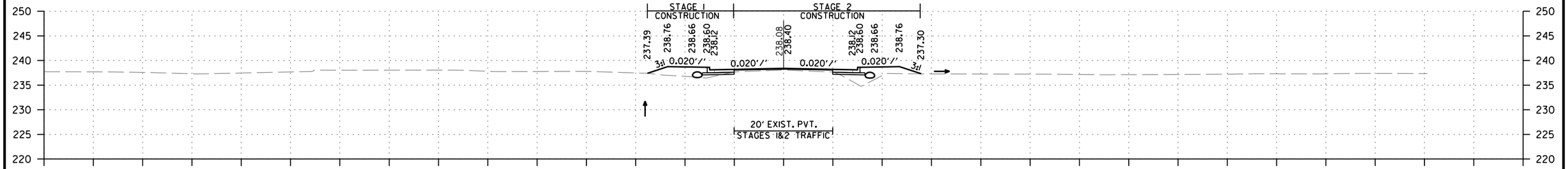
CUT AREA	0.57 SQ. FT.	CUT AREA	0.53 SQ. FT.	CUT VOLUME	0 CU. YD.
FILL AREA	23.33 SQ. FT.	FILL AREA	24.91 SQ. FT.	FILL VOLUME	12 CU. YD.

CUT VOLUME	0 CU. YD.		
FILL VOLUME	14 CU. YD.		



CUT AREA	0.56 SQ. FT.	CUT AREA	0.35 SQ. FT.	CUT VOLUME	0 CU. YD.
FILL AREA	20.92 SQ. FT.	FILL AREA	25.05 SQ. FT.	FILL VOLUME	4 CU. YD.

CUT VOLUME	0 CU. YD.		
FILL VOLUME	5 CU. YD.		



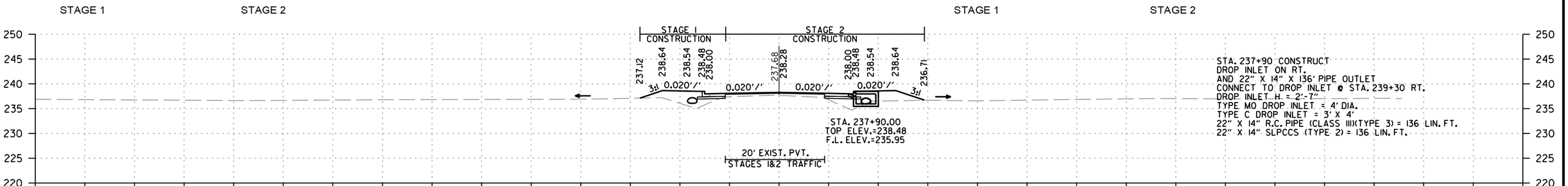
CUT AREA	0.57 SQ. FT.	CUT AREA	0.32 SQ. FT.	CUT VOLUME	2 CU. YD.
FILL AREA	19.86 SQ. FT.	FILL AREA	25.14 SQ. FT.	FILL VOLUME	12 CU. YD.

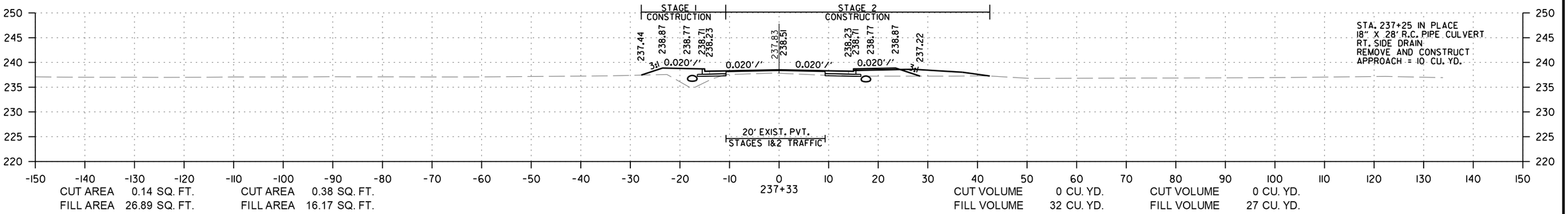
CUT VOLUME	0 CU. YD.		
FILL VOLUME	21 CU. YD.		

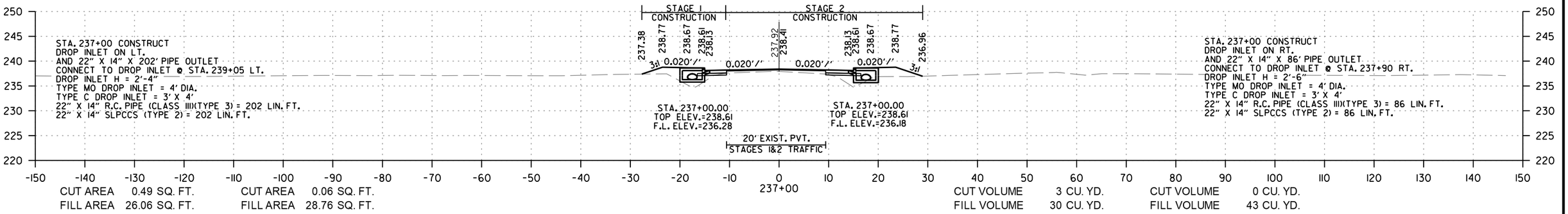
HWY. 190 EAST
STA. 236+00 TO STA. 236+40

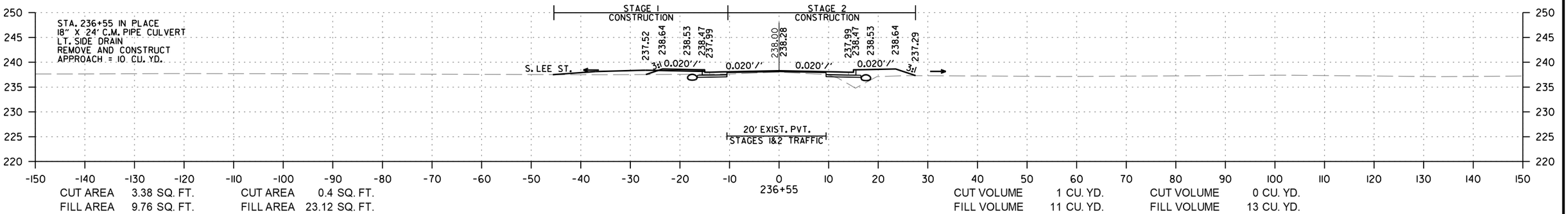
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	125	168
		CROSS SECTIONS				







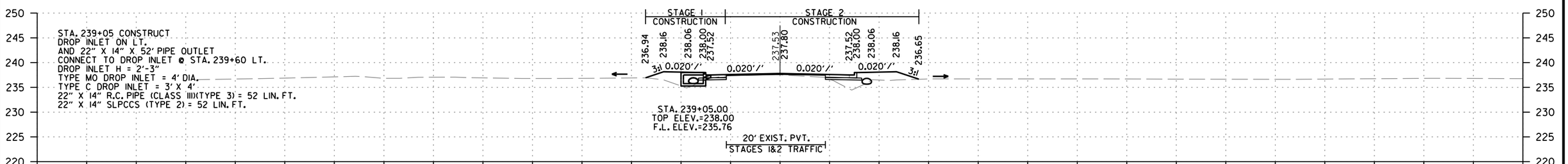


HWY. 190 EAST
STA. 236+55 TO STA. 237+90

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R020628.DGN MicroStation v8.11.9.578

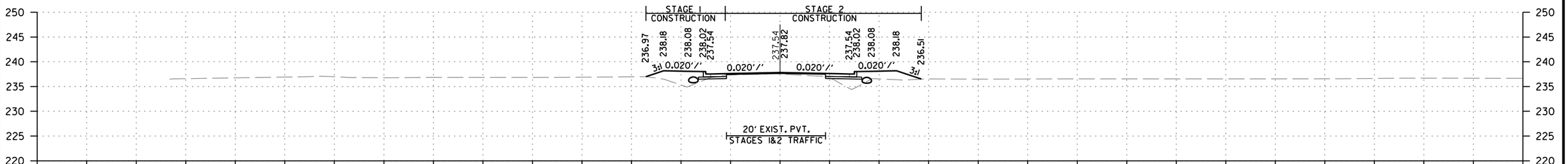
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	126	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



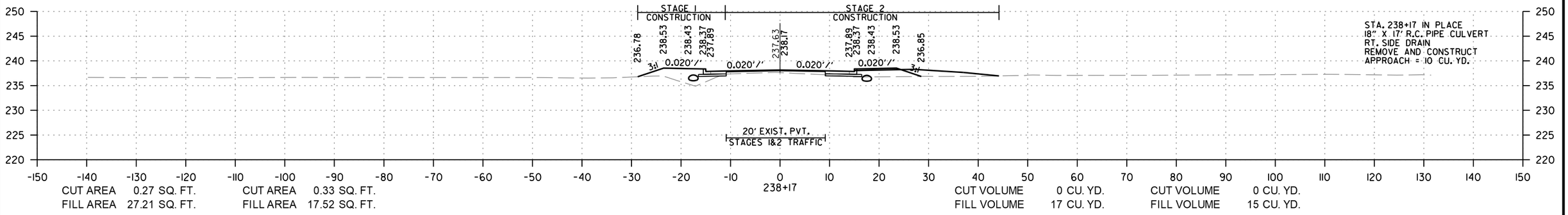
CUT AREA 1.92 SQ. FT. CUT AREA 0.17 SQ. FT.
FILL AREA 22.01 SQ. FT. FILL AREA 24.83 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 4 CU. YD. FILL VOLUME 5 CU. YD.



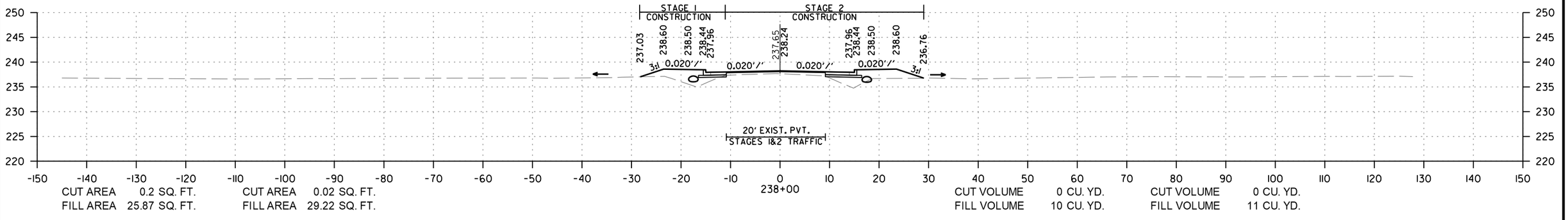
CUT AREA 1.76 SQ. FT. CUT AREA 0.18 SQ. FT.
FILL AREA 22.35 SQ. FT. FILL AREA 25.96 SQ. FT.

CUT VOLUME 3 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 76 CU. YD. FILL VOLUME 67 CU. YD.



CUT AREA 0.27 SQ. FT. CUT AREA 0.33 SQ. FT.
FILL AREA 27.21 SQ. FT. FILL AREA 17.52 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 17 CU. YD. FILL VOLUME 15 CU. YD.



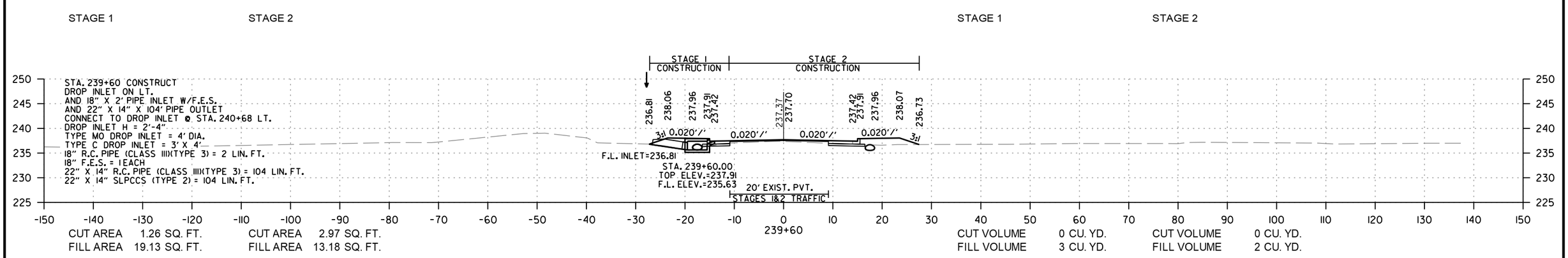
CUT AREA 0.2 SQ. FT. CUT AREA 0.02 SQ. FT.
FILL AREA 25.87 SQ. FT. FILL AREA 29.22 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 10 CU. YD. FILL VOLUME 11 CU. YD.

HWY. 190 EAST
STA. 238+00 TO STA. 239+05

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

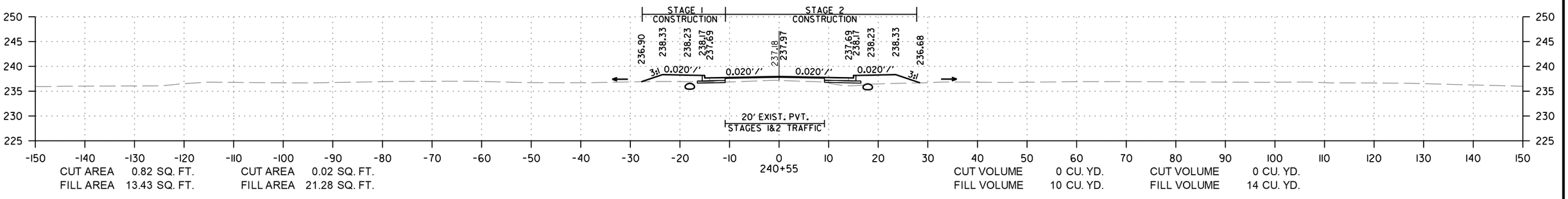
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	127	168
		CROSS SECTIONS				

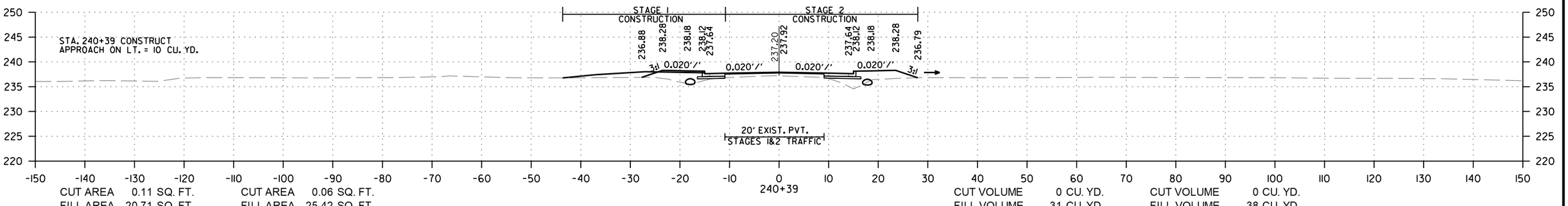


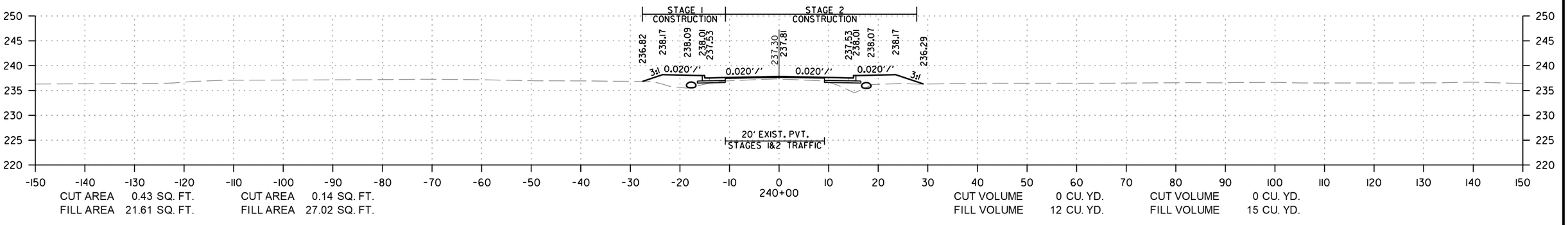
HWY. 190 EAST
STA. 239+30 TO STA. 239+60

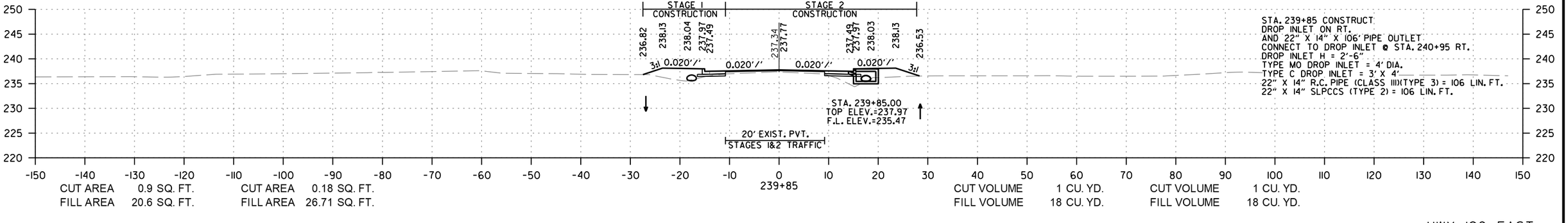
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	128	168
		CROSS SECTIONS				





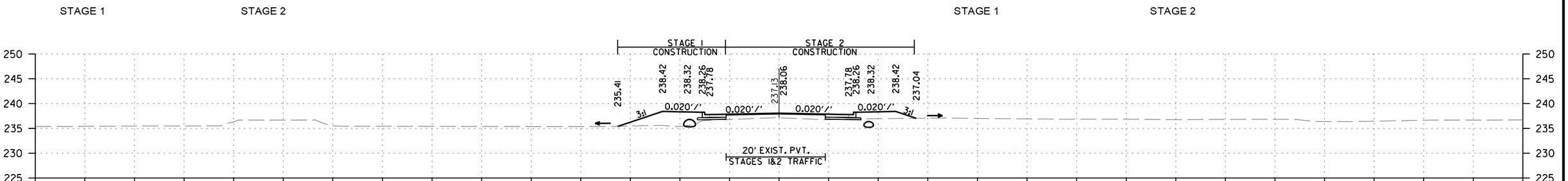




HWY. 190 EAST
STA. 239+85 TO STA. 240+55

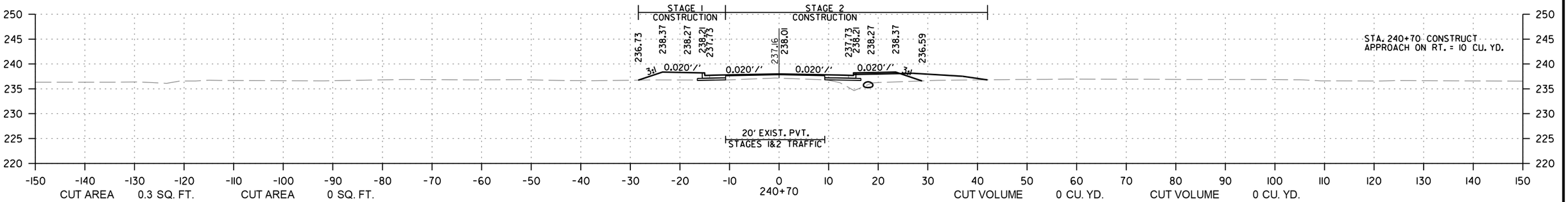
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	129	168
		CROSS SECTIONS				



CUT AREA 0.02 SQ. FT. CUT AREA 0.61 SQ. FT.
FILL AREA 34.26 SQ. FT. FILL AREA 13.95 SQ. FT.

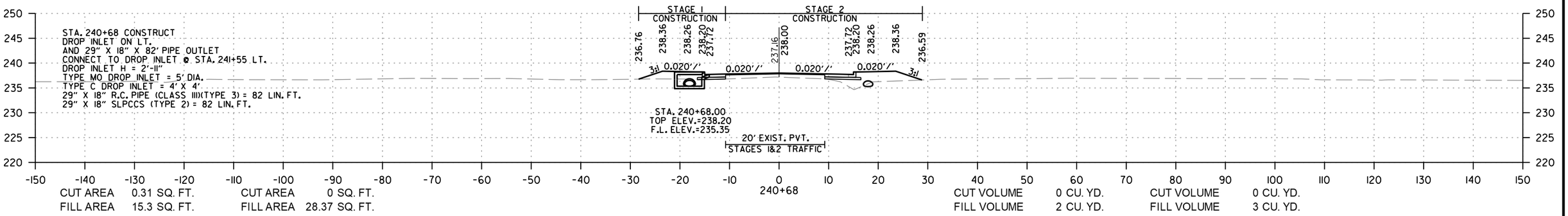
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 18 CU. YD. FILL VOLUME 16 CU. YD.



STA. 240+70 CONSTRUCT
APPROACH ON RT. = 10 CU. YD.

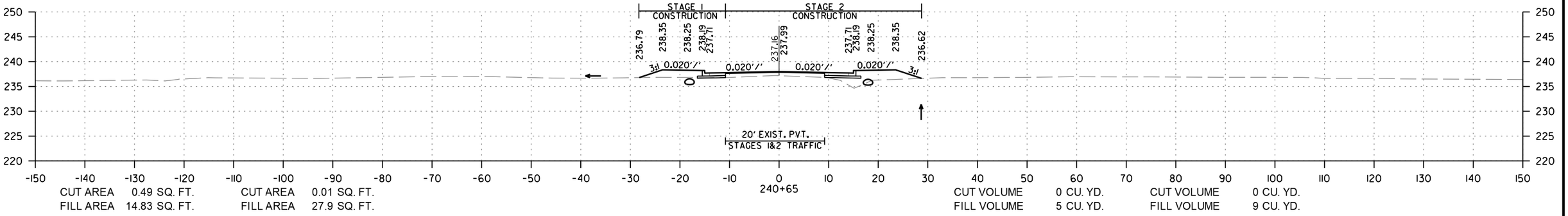
CUT AREA 0.3 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 15.62 SQ. FT. FILL AREA 28.47 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 1 CU. YD. FILL VOLUME 2 CU. YD.



CUT AREA 0.31 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 15.3 SQ. FT. FILL AREA 28.37 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 2 CU. YD. FILL VOLUME 3 CU. YD.



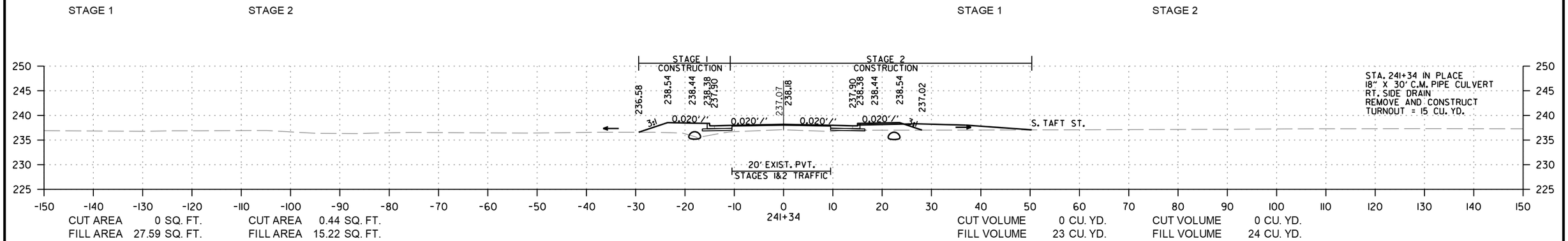
CUT AREA 0.49 SQ. FT. CUT AREA 0.01 SQ. FT.
FILL AREA 14.83 SQ. FT. FILL AREA 27.9 SQ. FT.

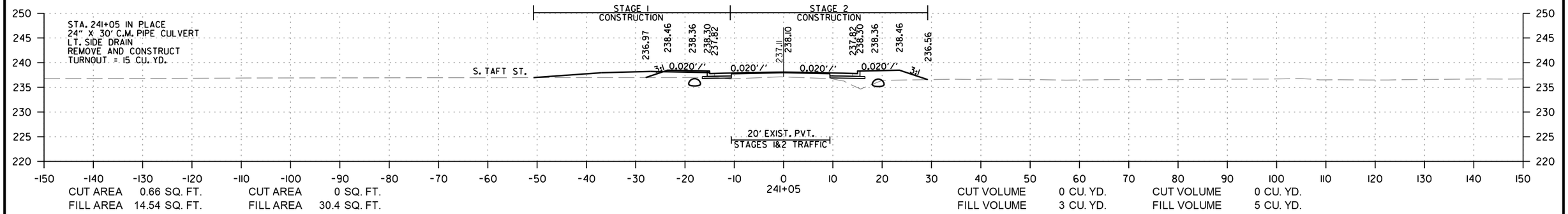
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 5 CU. YD. FILL VOLUME 9 CU. YD.

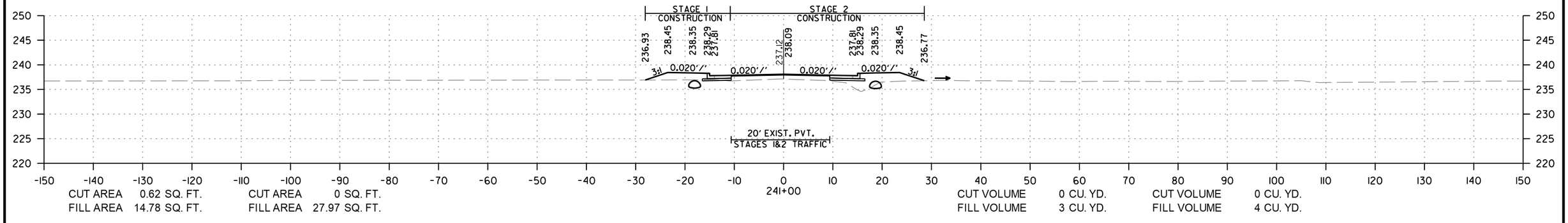
HWY. 190 EAST
STA. 240+65 TO STA. 240+90

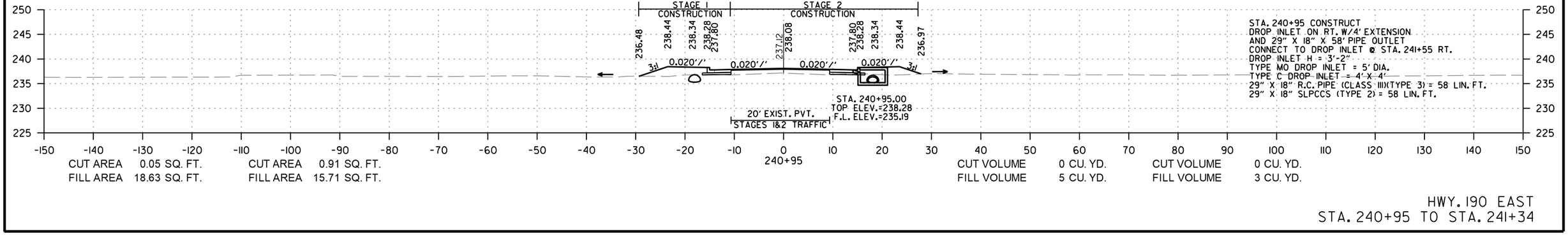
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	130	168
		CROSS SECTIONS				





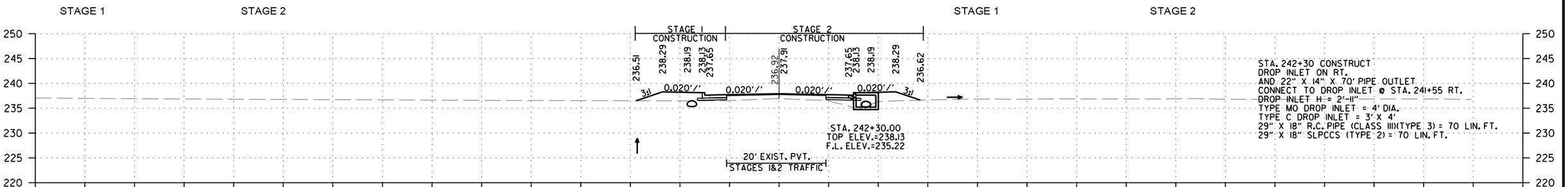


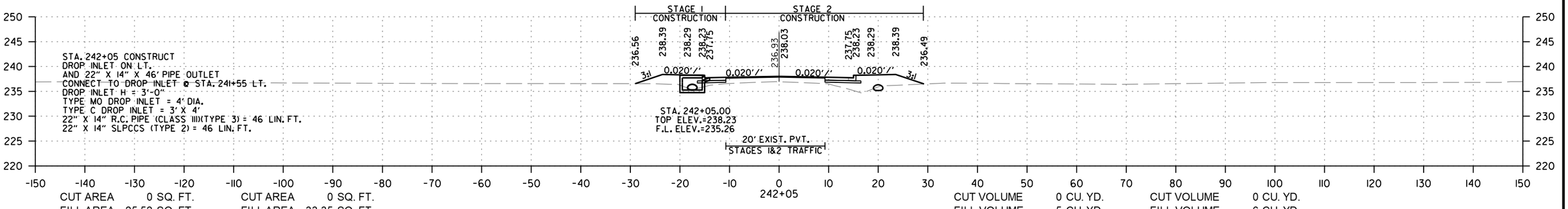


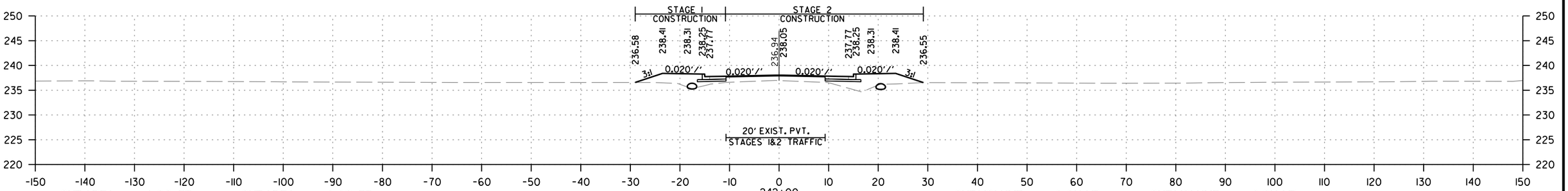
HWY. 190 EAST
STA. 240+95 TO STA. 241+34

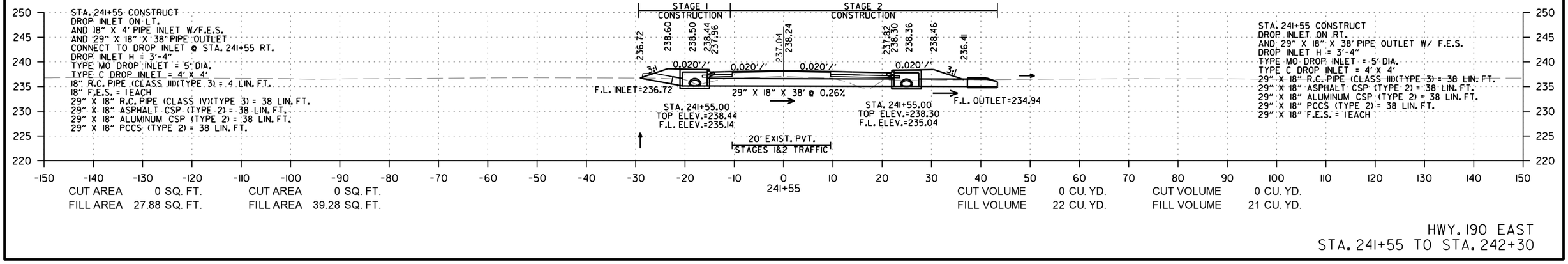
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	131	168
		CROSS SECTIONS				





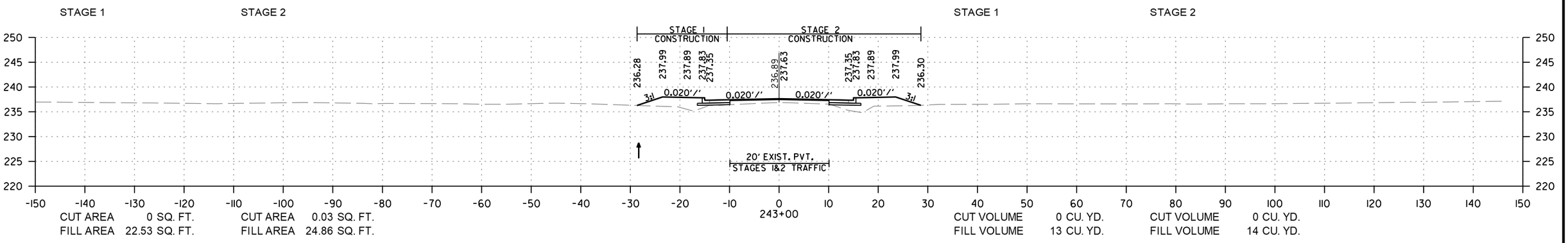




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R020628.DGN MicroStation v8.11.9.578

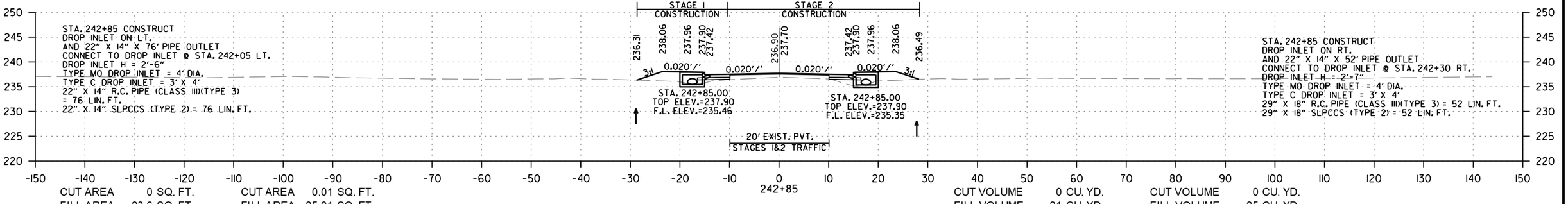
HWY. 190 EAST
STA. 241+55 TO STA. 242+30

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	132	168
		CROSS SECTIONS				



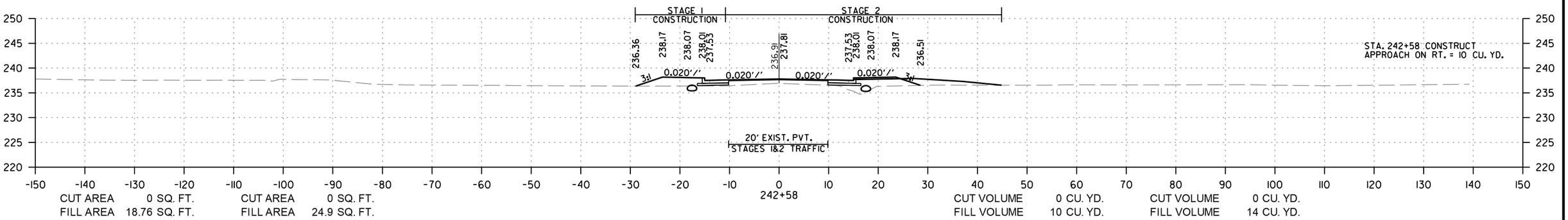
CUT AREA 0 SQ. FT. CUT AREA 0.03 SQ. FT.
FILL AREA 22.53 SQ. FT. FILL AREA 24.86 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 13 CU. YD. FILL VOLUME 14 CU. YD.



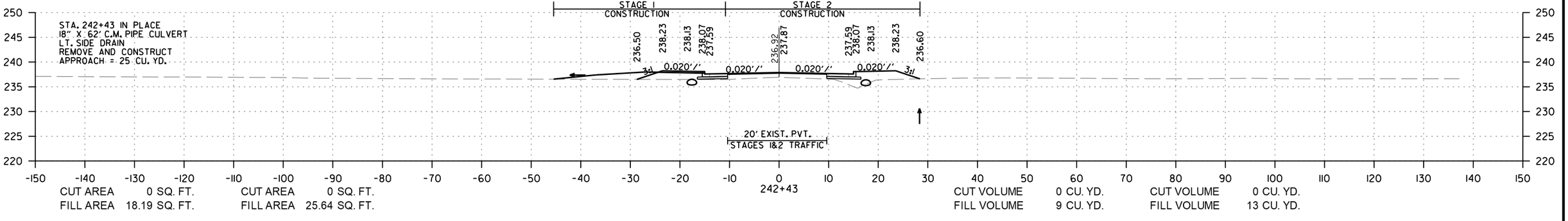
CUT AREA 0 SQ. FT. CUT AREA 0.01 SQ. FT.
FILL AREA 23.6 SQ. FT. FILL AREA 25.01 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 21 CU. YD. FILL VOLUME 25 CU. YD.



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 18.76 SQ. FT. FILL AREA 24.9 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 10 CU. YD. FILL VOLUME 14 CU. YD.



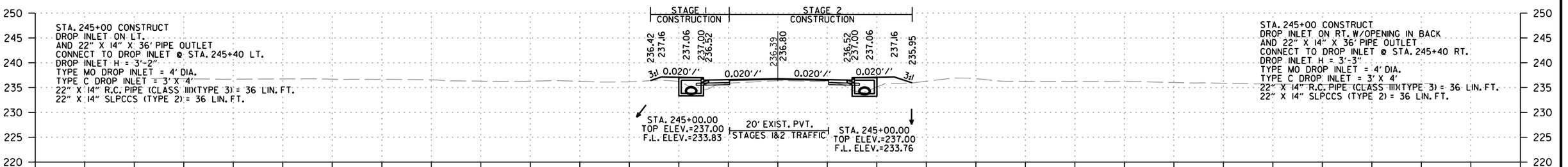
CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 18.19 SQ. FT. FILL AREA 25.64 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 9 CU. YD. FILL VOLUME 13 CU. YD.

HWY. 190 EAST
STA. 242+43 TO STA. 243+00

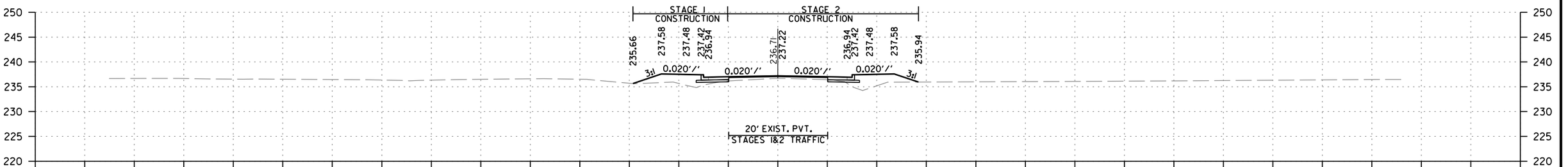
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	133	168
		CROSS SECTIONS				



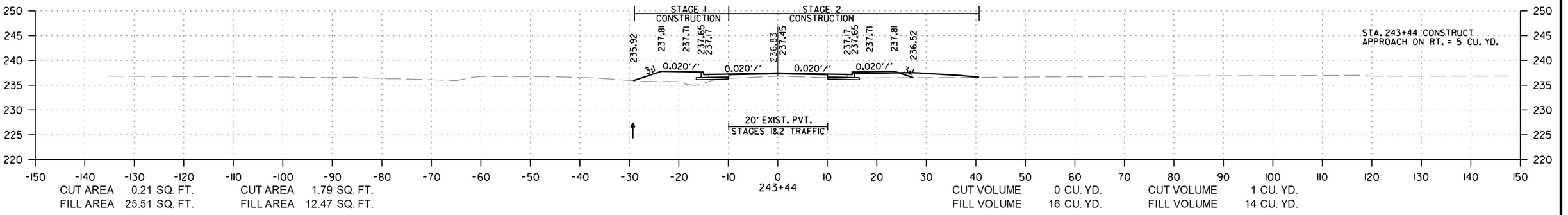
CUT AREA	0.42 SQ. FT.	CUT AREA	1.04 SQ. FT.
FILL AREA	13.03 SQ. FT.	FILL AREA	20.46 SQ. FT.

CUT VOLUME	1 CU. YD.	CUT VOLUME	4 CU. YD.
FILL VOLUME	65 CU. YD.	FILL VOLUME	82 CU. YD.



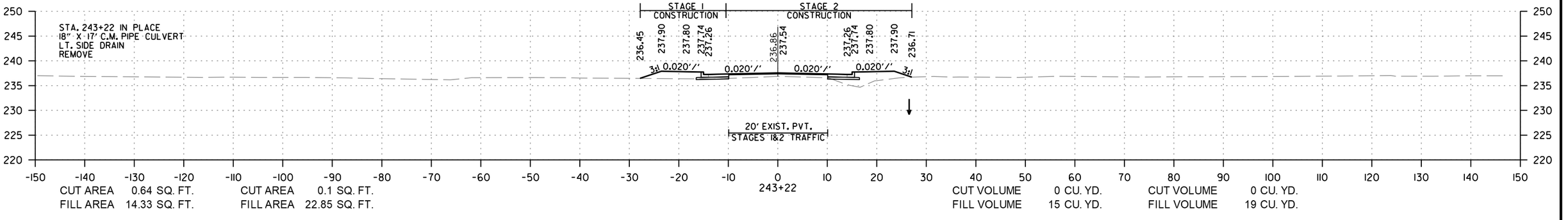
CUT AREA	0.13 SQ. FT.	CUT AREA	0.96 SQ. FT.
FILL AREA	21.9 SQ. FT.	FILL AREA	23.87 SQ. FT.

CUT VOLUME	0 CU. YD.	CUT VOLUME	3 CU. YD.
FILL VOLUME	49 CU. YD.	FILL VOLUME	38 CU. YD.



CUT AREA	0.21 SQ. FT.	CUT AREA	1.79 SQ. FT.
FILL AREA	25.51 SQ. FT.	FILL AREA	12.47 SQ. FT.

CUT VOLUME	0 CU. YD.	CUT VOLUME	1 CU. YD.
FILL VOLUME	16 CU. YD.	FILL VOLUME	14 CU. YD.



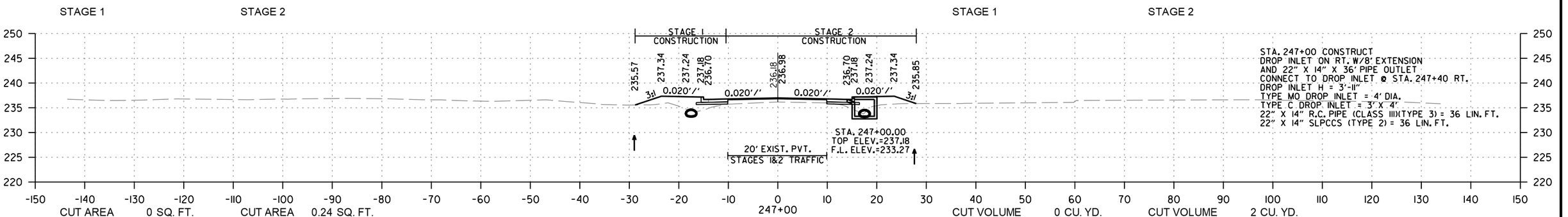
CUT AREA	0.64 SQ. FT.	CUT AREA	0.1 SQ. FT.
FILL AREA	14.33 SQ. FT.	FILL AREA	22.85 SQ. FT.

CUT VOLUME	0 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	15 CU. YD.	FILL VOLUME	19 CU. YD.

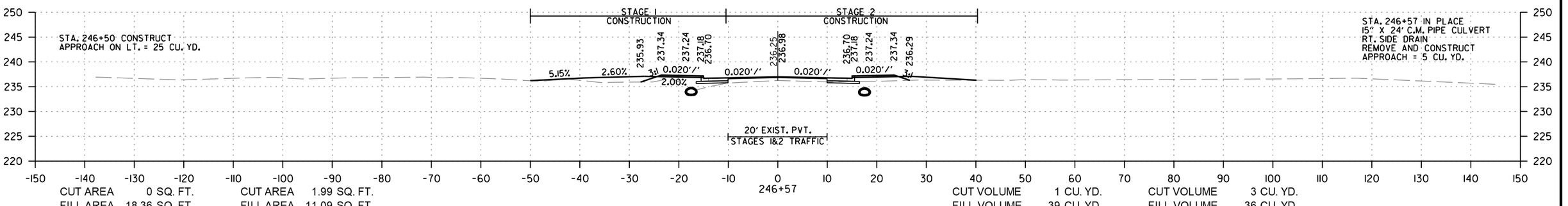
HWY. 190 EAST
STA. 243+22 TO STA. 245+00

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

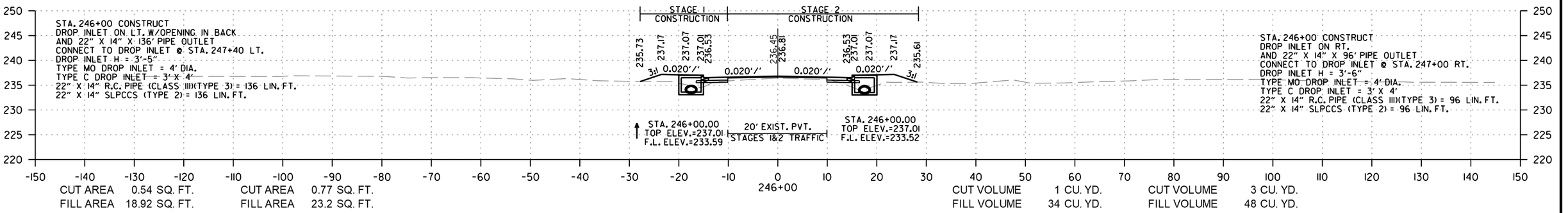
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	134	168
		CROSS SECTIONS				



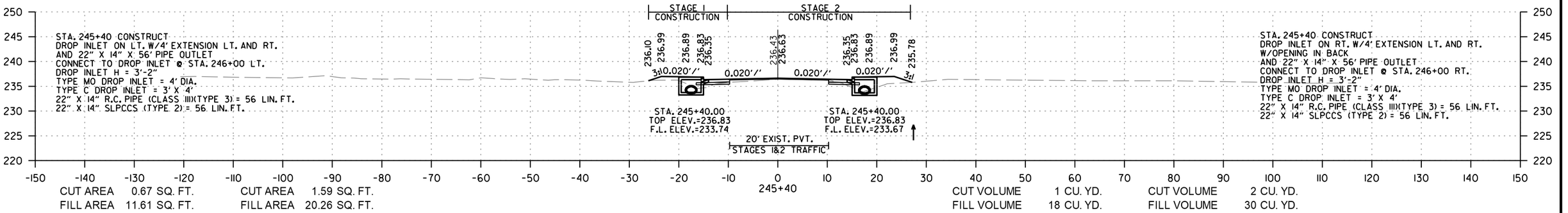
CUT AREA 0 SQ. FT.	CUT AREA 0.24 SQ. FT.	CUT VOLUME 0 CU. YD.	CUT VOLUME 2 CU. YD.
FILL AREA 24.13 SQ. FT.	FILL AREA 22.63 SQ. FT.	FILL VOLUME 34 CU. YD.	FILL VOLUME 27 CU. YD.



CUT AREA 0 SQ. FT.	CUT AREA 1.99 SQ. FT.	CUT VOLUME 1 CU. YD.	CUT VOLUME 3 CU. YD.
FILL AREA 18.36 SQ. FT.	FILL AREA 11.09 SQ. FT.	FILL VOLUME 39 CU. YD.	FILL VOLUME 36 CU. YD.



CUT AREA 0.54 SQ. FT.	CUT AREA 0.77 SQ. FT.	CUT VOLUME 1 CU. YD.	CUT VOLUME 3 CU. YD.
FILL AREA 18.92 SQ. FT.	FILL AREA 23.2 SQ. FT.	FILL VOLUME 34 CU. YD.	FILL VOLUME 48 CU. YD.



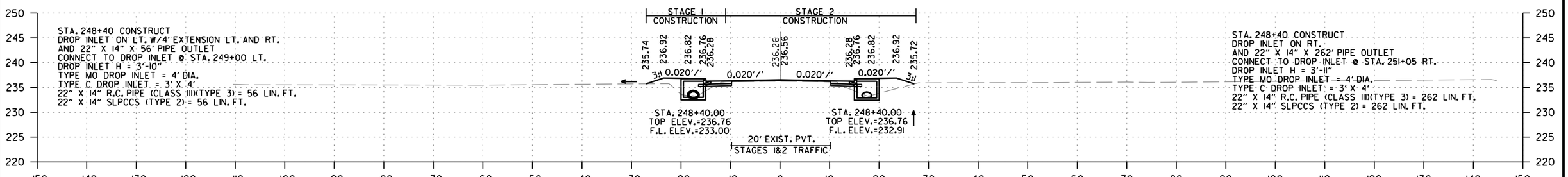
CUT AREA 0.67 SQ. FT.	CUT AREA 1.59 SQ. FT.	CUT VOLUME 1 CU. YD.	CUT VOLUME 2 CU. YD.
FILL AREA 11.61 SQ. FT.	FILL AREA 20.26 SQ. FT.	FILL VOLUME 18 CU. YD.	FILL VOLUME 30 CU. YD.

HWY. 190 EAST
STA. 245+40 TO STA. 247+00

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	135	168
		CROSS SECTIONS				

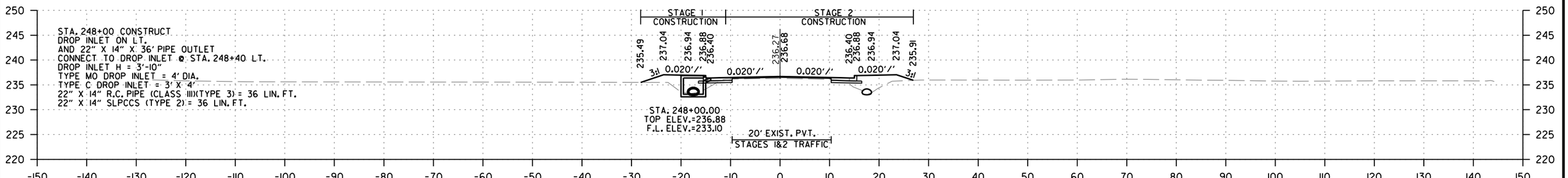
STAGE 1 STAGE 2 STAGE 1 STAGE 2



248+40

CUT AREA	2.17 SQ. FT.	CUT AREA	1.46 SQ. FT.	CUT VOLUME	3 CU. YD.
FILL AREA	24.44 SQ. FT.	FILL AREA	28.67 SQ. FT.	FILL VOLUME	39 CU. YD.

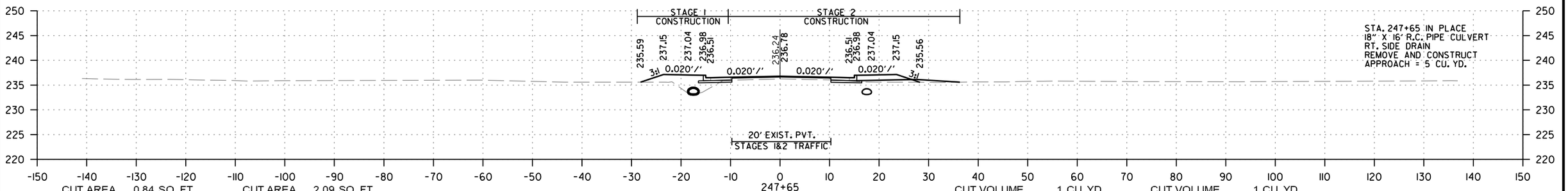
CUT VOLUME	2 CU. YD.
FILL VOLUME	38 CU. YD.



248+00

CUT AREA	1.73 SQ. FT.	CUT AREA	1.77 SQ. FT.	CUT VOLUME	2 CU. YD.
FILL AREA	28.59 SQ. FT.	FILL AREA	23.07 SQ. FT.	FILL VOLUME	37 CU. YD.

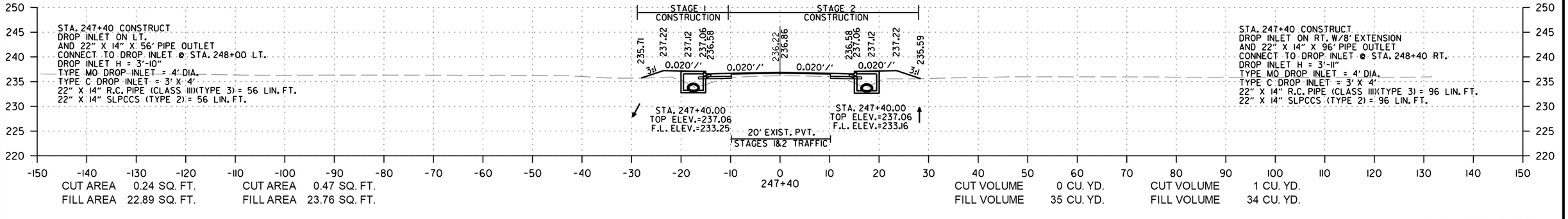
CUT VOLUME	3 CU. YD.
FILL VOLUME	25 CU. YD.



247+65

CUT AREA	0.84 SQ. FT.	CUT AREA	2.09 SQ. FT.	CUT VOLUME	1 CU. YD.
FILL AREA	28.41 SQ. FT.	FILL AREA	15.05 SQ. FT.	FILL VOLUME	24 CU. YD.

CUT VOLUME	1 CU. YD.
FILL VOLUME	18 CU. YD.



247+40

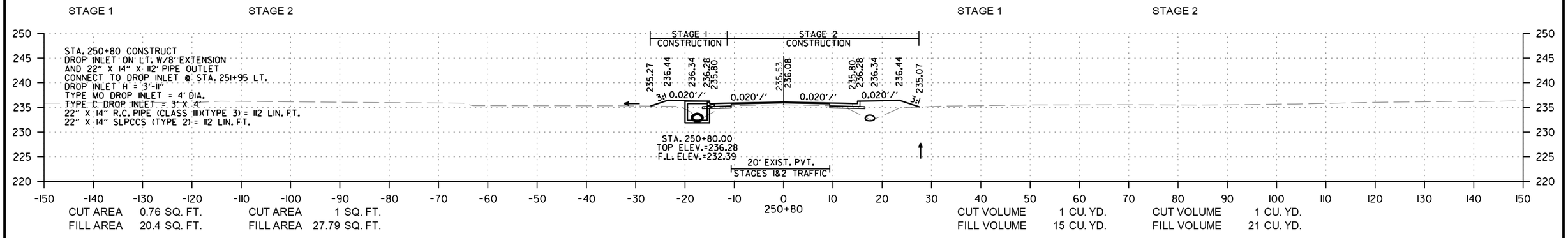
CUT AREA	0.24 SQ. FT.	CUT AREA	0.47 SQ. FT.	CUT VOLUME	0 CU. YD.
FILL AREA	22.89 SQ. FT.	FILL AREA	23.76 SQ. FT.	FILL VOLUME	35 CU. YD.

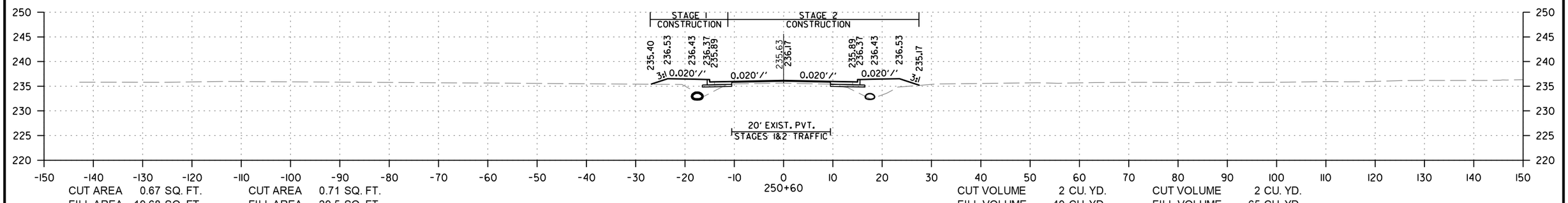
CUT VOLUME	1 CU. YD.
FILL VOLUME	34 CU. YD.

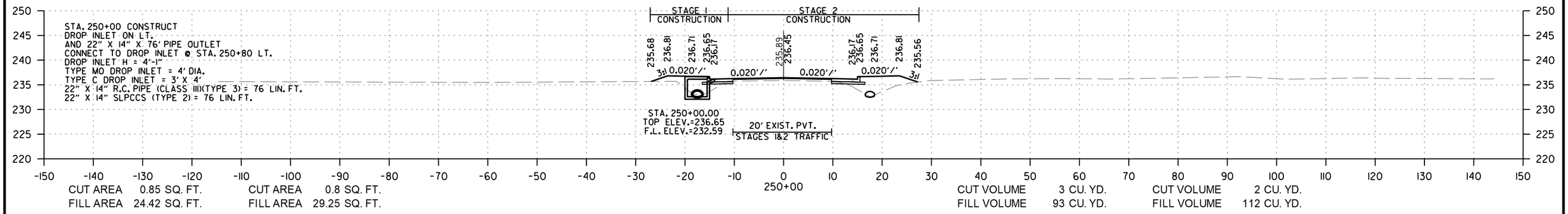
HWY. 190 EAST
STA. 247+40 TO STA. 248+40

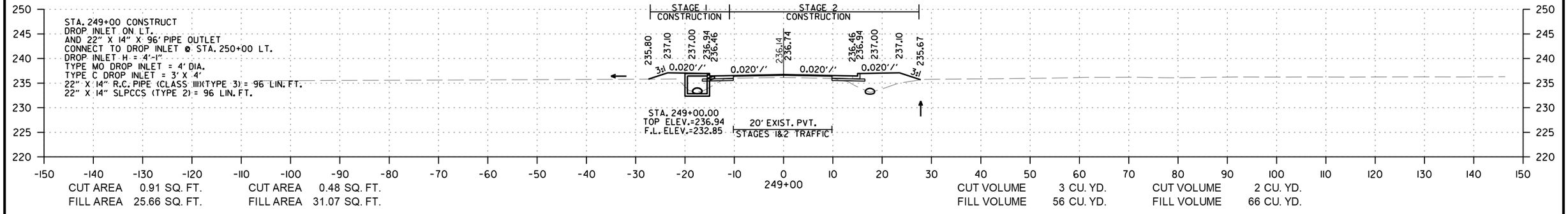
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	136	168
		CROSS SECTIONS				





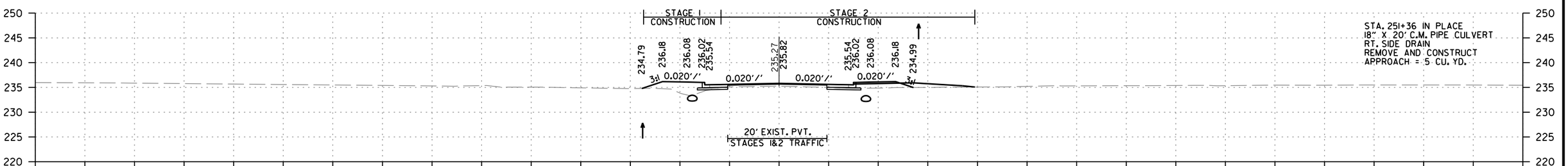




HWY. 190 EAST
STA. 249+00 TO STA. 250+80

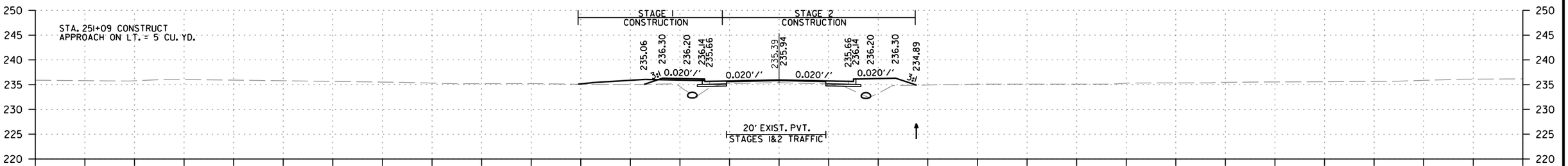
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	137	168
		CROSS SECTIONS				



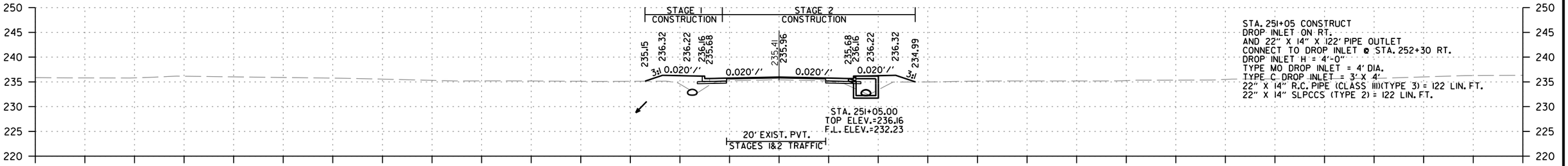
CUT AREA 1.2 SQ. FT. CUT AREA 2.41 SQ. FT.
FILL AREA 19.46 SQ. FT. FILL AREA 11.95 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 2 CU. YD.
FILL VOLUME 20 CU. YD. FILL VOLUME 19 CU. YD.



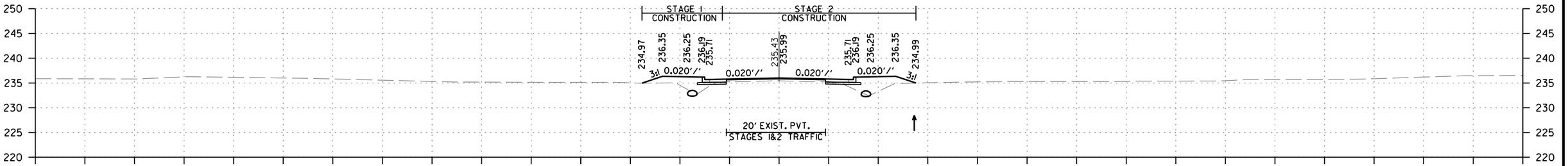
CUT AREA 0.77 SQ. FT. CUT AREA 0.77 SQ. FT.
FILL AREA 19.82 SQ. FT. FILL AREA 26.11 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 3 CU. YD. FILL VOLUME 4 CU. YD.



CUT AREA 1.01 SQ. FT. CUT AREA 0.82 SQ. FT.
FILL AREA 19.89 SQ. FT. FILL AREA 25.35 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 4 CU. YD. FILL VOLUME 5 CU. YD.



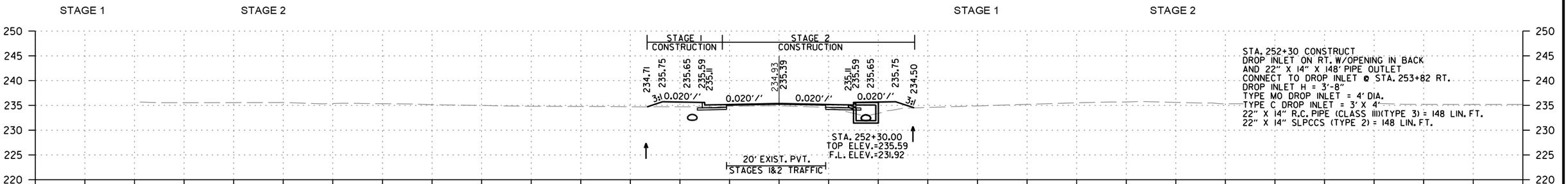
CUT AREA 1.07 SQ. FT. CUT AREA 0.89 SQ. FT.
FILL AREA 20.86 SQ. FT. FILL AREA 26.43 SQ. FT.

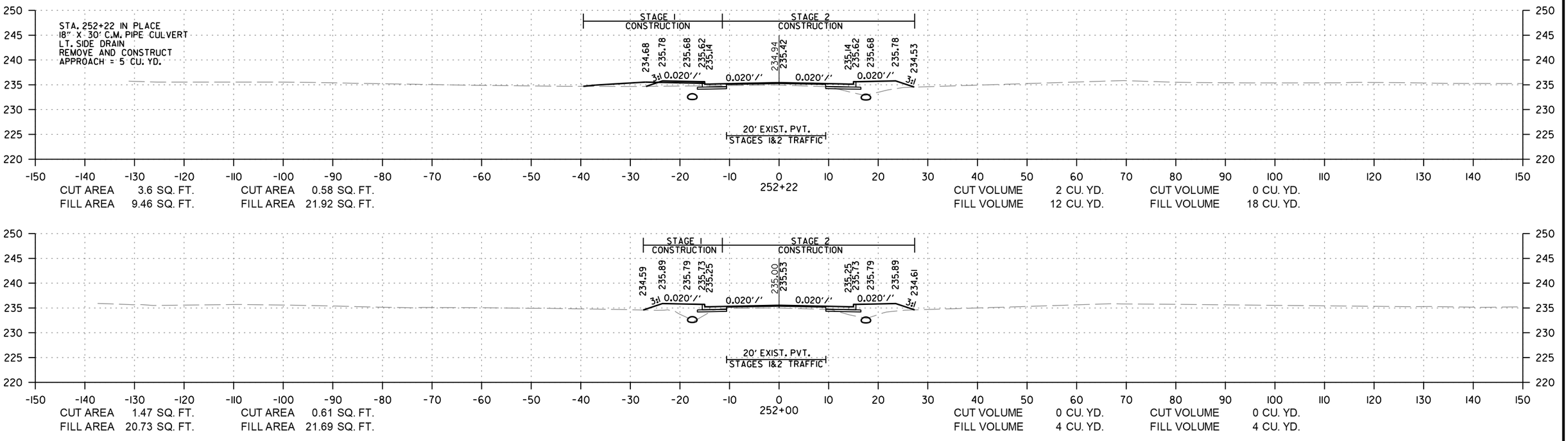
CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 15 CU. YD. FILL VOLUME 20 CU. YD.

HWY. 190 EAST
STA. 251+00 TO STA. 251+36

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	138	168
		CROSS SECTIONS				

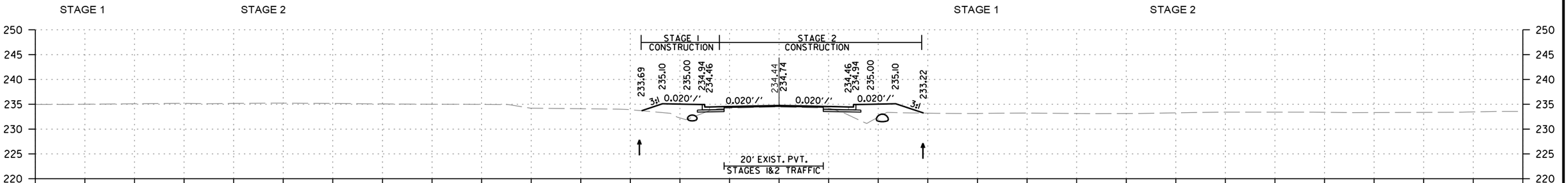




HWY. 190 EAST
STA. 251+95 TO STA. 252+30

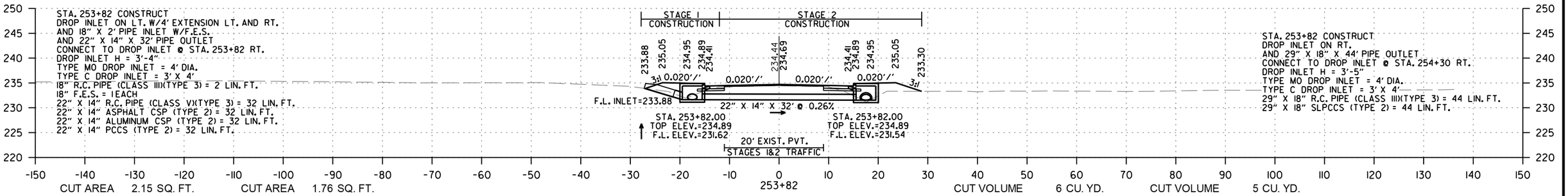
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	139	168
		CROSS SECTIONS				



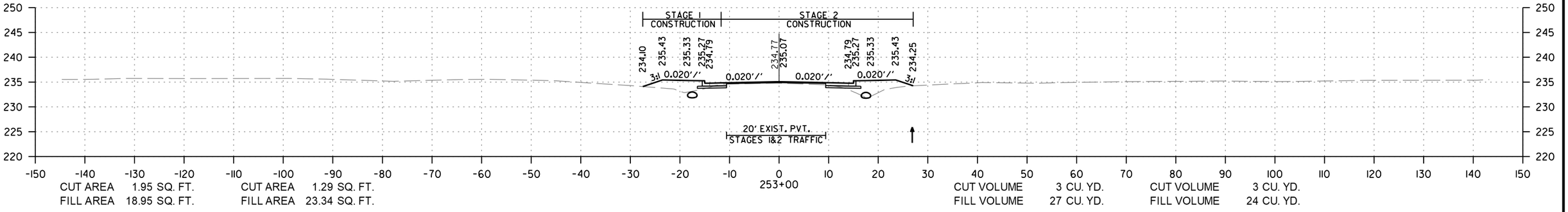
CUT AREA 1.65 SQ. FT. CUT AREA 1.62 SQ. FT.
FILL AREA 22.63 SQ. FT. FILL AREA 28.26 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 14 CU. YD. FILL VOLUME 18 CU. YD.



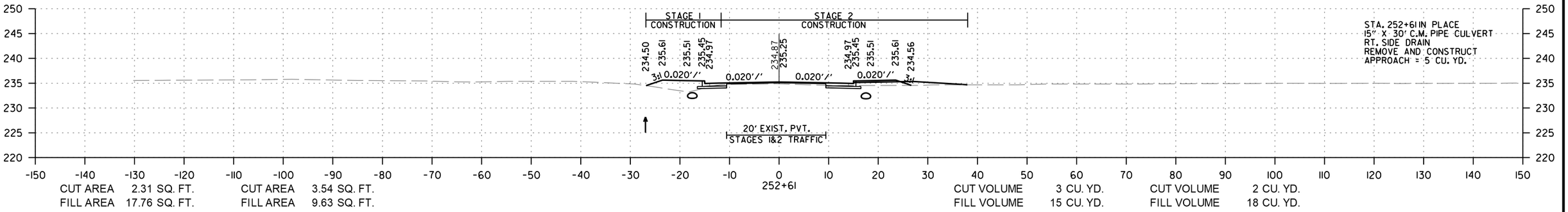
CUT AREA 2.15 SQ. FT. CUT AREA 1.76 SQ. FT.
FILL AREA 20.66 SQ. FT. FILL AREA 26.86 SQ. FT.

CUT VOLUME 6 CU. YD. CUT VOLUME 5 CU. YD.
FILL VOLUME 60 CU. YD. FILL VOLUME 76 CU. YD.



CUT AREA 1.95 SQ. FT. CUT AREA 1.29 SQ. FT.
FILL AREA 18.95 SQ. FT. FILL AREA 23.34 SQ. FT.

CUT VOLUME 3 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 27 CU. YD. FILL VOLUME 24 CU. YD.



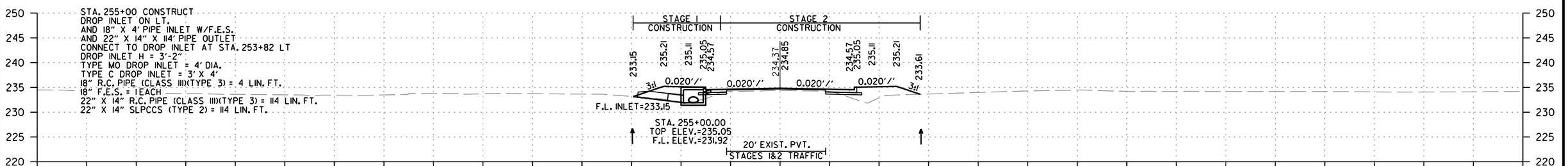
CUT AREA 2.31 SQ. FT. CUT AREA 3.54 SQ. FT.
FILL AREA 17.76 SQ. FT. FILL AREA 9.63 SQ. FT.

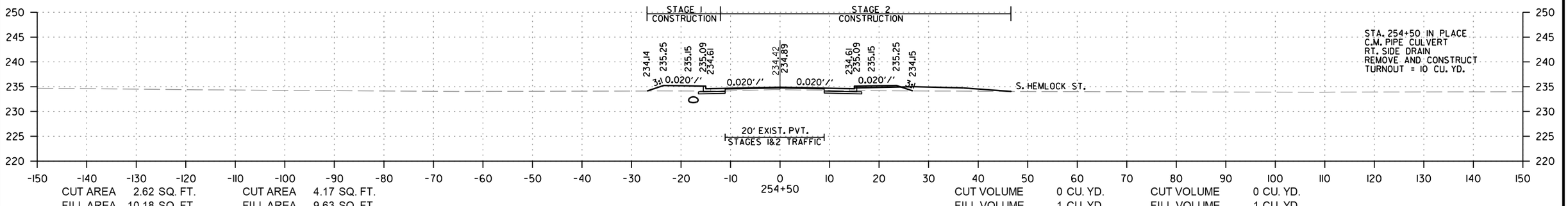
CUT VOLUME 3 CU. YD. CUT VOLUME 2 CU. YD.
FILL VOLUME 15 CU. YD. FILL VOLUME 18 CU. YD.

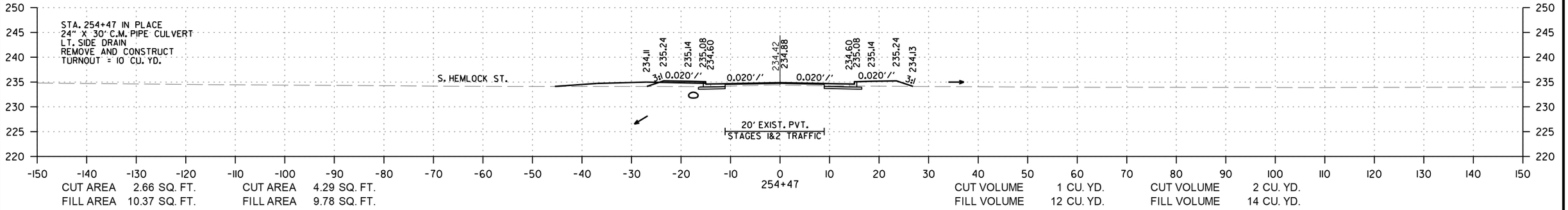
HWY. 190 EAST
STA. 252+61 TO STA. 254+00

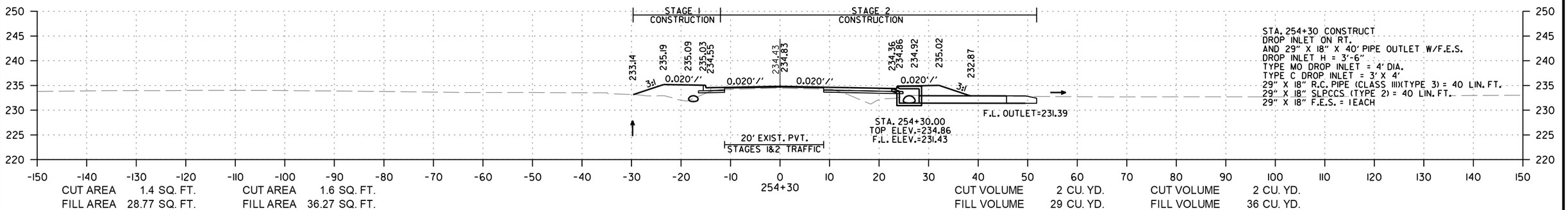
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	140	168
		CROSS SECTIONS				







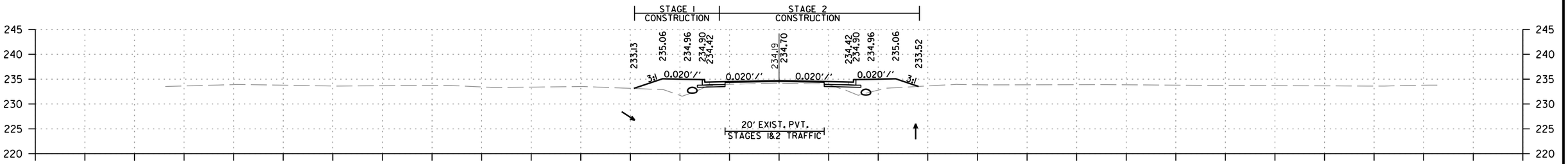


HWY. 190 EAST
STA. 254+30 TO STA. 255+00

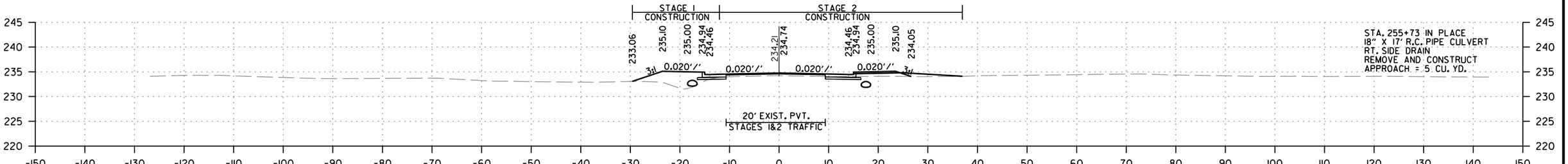
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	141	168
		CROSS SECTIONS				

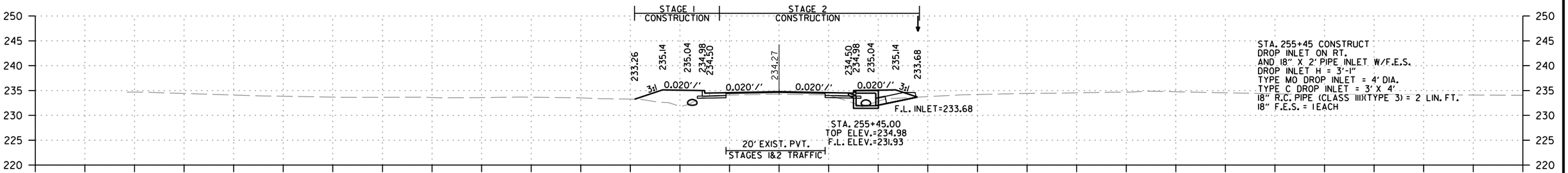
STAGE 1 STAGE 2 STAGE 1 STAGE 2



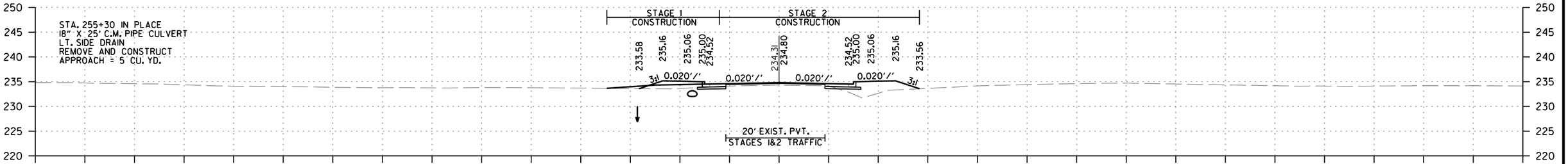
CUT AREA 1.19 SQ. FT. CUT AREA 0.69 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 27.61 SQ. FT. FILL AREA 25.52 SQ. FT. FILL VOLUME 29 CU. YD. FILL VOLUME 17 CU. YD.



CUT AREA 1.11 SQ. FT. CUT AREA 3.81 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 29.79 SQ. FT. FILL AREA 9.04 SQ. FT. FILL VOLUME 30 CU. YD. FILL VOLUME 18 CU. YD.



CUT AREA 1.8 SQ. FT. CUT AREA 0.79 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 27.36 SQ. FT. FILL AREA 24.71 SQ. FT. FILL VOLUME 12 CU. YD. FILL VOLUME 14 CU. YD.



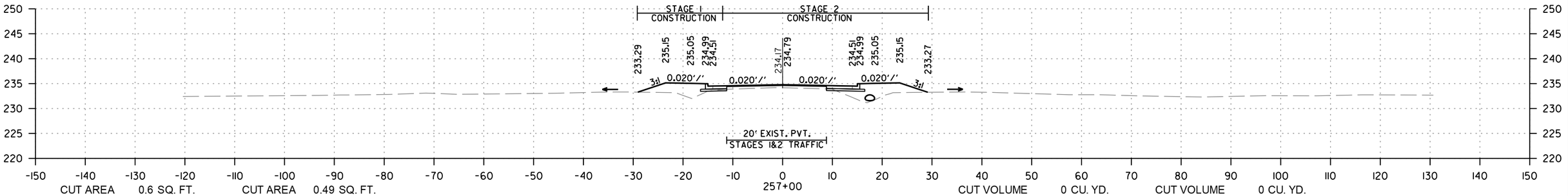
CUT AREA 2.38 SQ. FT. CUT AREA 0.84 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 15.09 SQ. FT. FILL AREA 26.34 SQ. FT. FILL VOLUME 26 CU. YD. FILL VOLUME 28 CU. YD.

HWY. 190 EAST
STA. 255+30 TO STA. 256+00

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

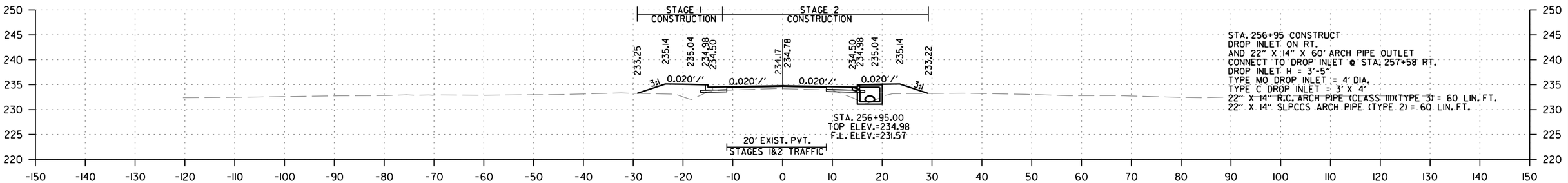
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	142	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	0.6 SQ. FT.	CUT AREA	0.49 SQ. FT.	CUT VOLUME	0 CU. YD.
FILL AREA	23.62 SQ. FT.	FILL AREA	32.3 SQ. FT.	FILL VOLUME	4 CU. YD.

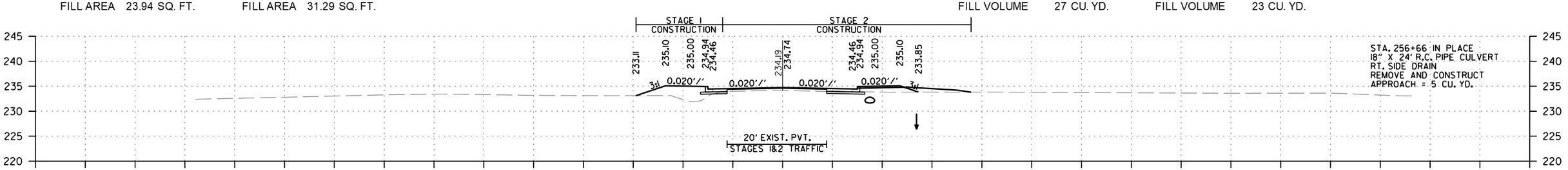
CUT VOLUME 0 CU. YD.
FILL VOLUME 6 CU. YD.



STA. 256+95 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 60' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 257+58 RT.
DROP INLET H = 3'-5"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 60 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 60 LIN. FT.

CUT AREA	0.91 SQ. FT.	CUT AREA	0.54 SQ. FT.	CUT VOLUME	1 CU. YD.
FILL AREA	23.94 SQ. FT.	FILL AREA	31.29 SQ. FT.	FILL VOLUME	27 CU. YD.

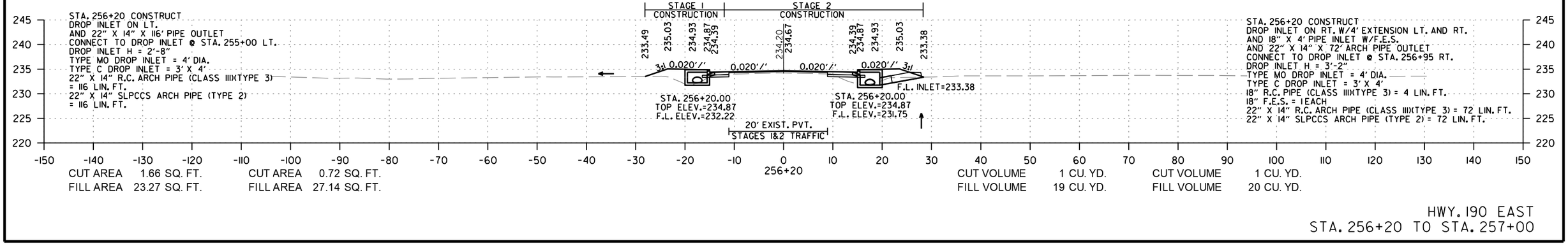
CUT VOLUME 2 CU. YD.
FILL VOLUME 23 CU. YD.



STA. 256+66 IN PLACE
18" X 24' R.C. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

CUT AREA	0.77 SQ. FT.	CUT AREA	3.08 SQ. FT.	CUT VOLUME	2 CU. YD.
FILL AREA	26.7 SQ. FT.	FILL AREA	11.77 SQ. FT.	FILL VOLUME	43 CU. YD.

CUT VOLUME 3 CU. YD.
FILL VOLUME 33 CU. YD.



STA. 256+20 CONSTRUCT
DROP INLET ON LT.
AND 22" X 14" X 116' PIPE OUTLET
CONNECT TO DROP INLET @ STA. 255+00 LT.
DROP INLET H = 2'-8"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3)
= 116 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2)
= 116 LIN. FT.

STA. 256+20 CONSTRUCT
DROP INLET ON RT. W/4' EXTENSION LT. AND RT.
AND 18" X 4' PIPE INLET W/F.E.S.
AND 22" X 14" X 72' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 256+95 RT.
DROP INLET H = 3'-2"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
18" R.C. PIPE (CLASS III)(TYPE 3) = 4 LIN. FT.
18" F.E.S. = 1EACH
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 72 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 72 LIN. FT.

CUT AREA	1.66 SQ. FT.	CUT AREA	0.72 SQ. FT.	CUT VOLUME	1 CU. YD.
FILL AREA	23.27 SQ. FT.	FILL AREA	27.14 SQ. FT.	FILL VOLUME	19 CU. YD.

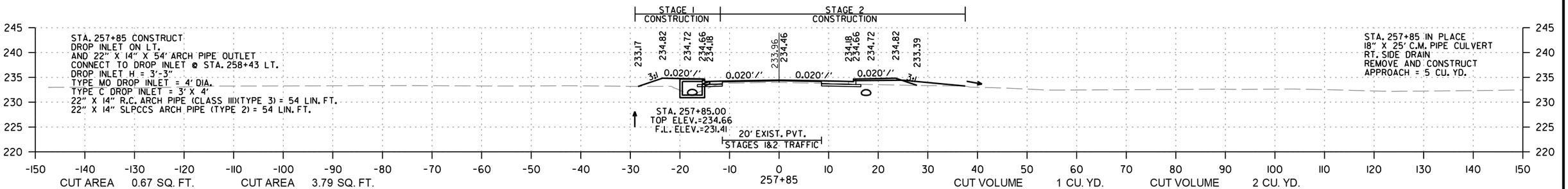
CUT VOLUME 1 CU. YD.
FILL VOLUME 20 CU. YD.

HWY. 190 EAST
STA. 256+20 TO STA. 257+00

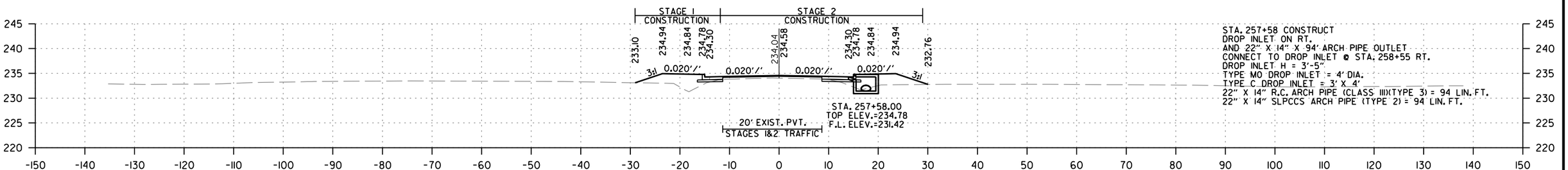
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	143	168
		CROSS SECTIONS				

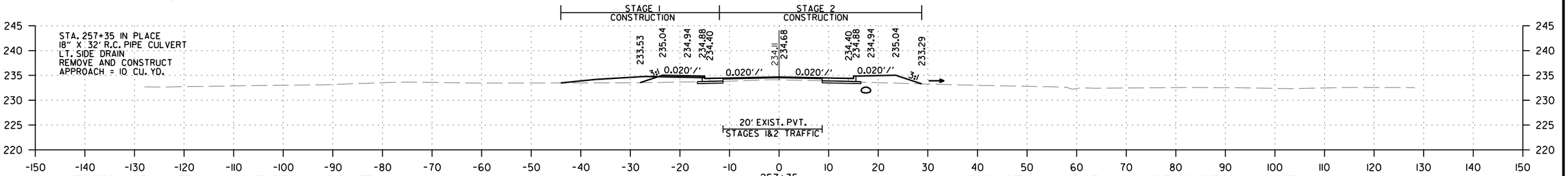
STAGE 1 STAGE 2 STAGE 1 STAGE 2



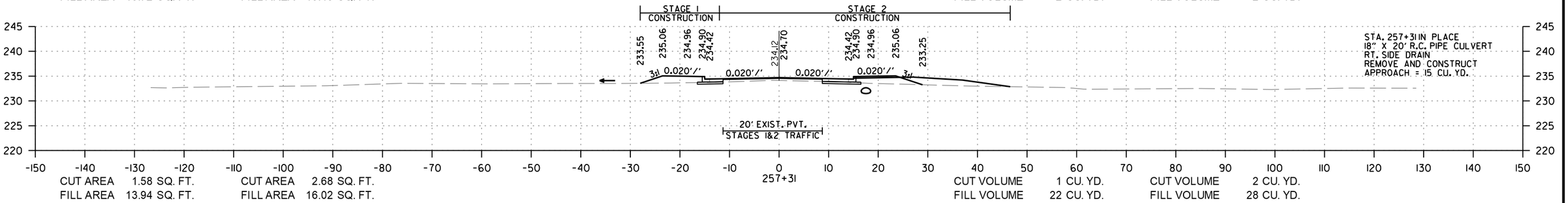
CUT AREA 0.67 SQ. FT. CUT AREA 3.79 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 23.58 SQ. FT. FILL AREA 12.46 SQ. FT. FILL VOLUME 25 CU. YD. FILL VOLUME 21 CU. YD.



CUT AREA 0.61 SQ. FT. CUT AREA 0.96 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 25.78 SQ. FT. FILL AREA 29.17 SQ. FT. FILL VOLUME 17 CU. YD. FILL VOLUME 19 CU. YD.



CUT AREA 1.76 SQ. FT. CUT AREA 2.65 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 13.72 SQ. FT. FILL AREA 15.45 SQ. FT. FILL VOLUME 2 CU. YD. FILL VOLUME 2 CU. YD.



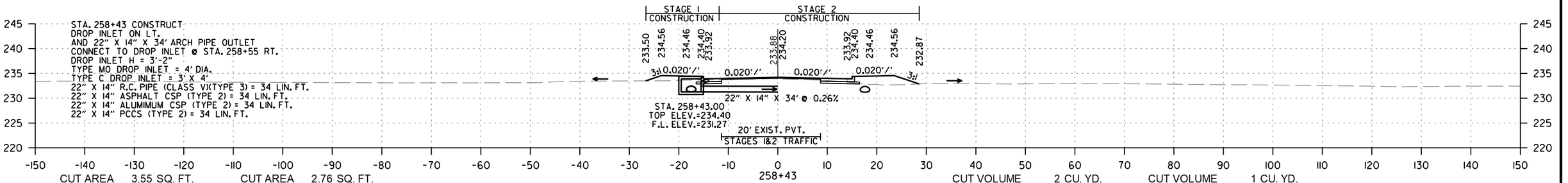
CUT AREA 1.58 SQ. FT. CUT AREA 2.68 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 13.94 SQ. FT. FILL AREA 16.02 SQ. FT. FILL VOLUME 22 CU. YD. FILL VOLUME 28 CU. YD.

HWY. 190 EAST
STA. 257+31 TO STA. 257+85

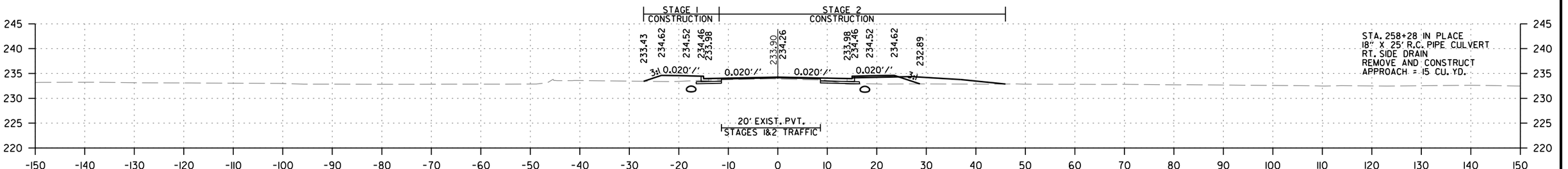
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	144	168
		CROSS SECTIONS				

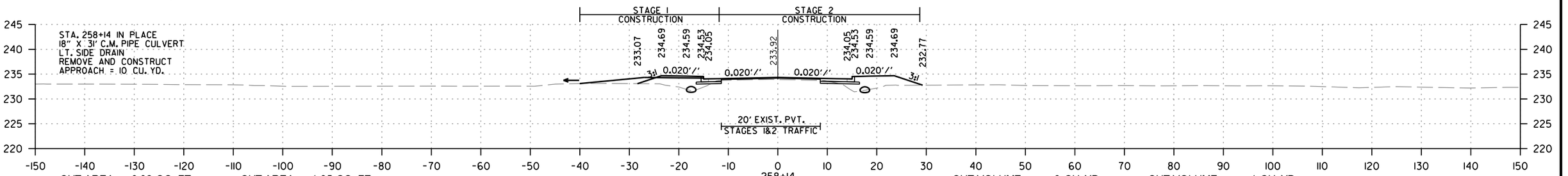
STAGE 1 STAGE 2 STAGE 1 STAGE 2



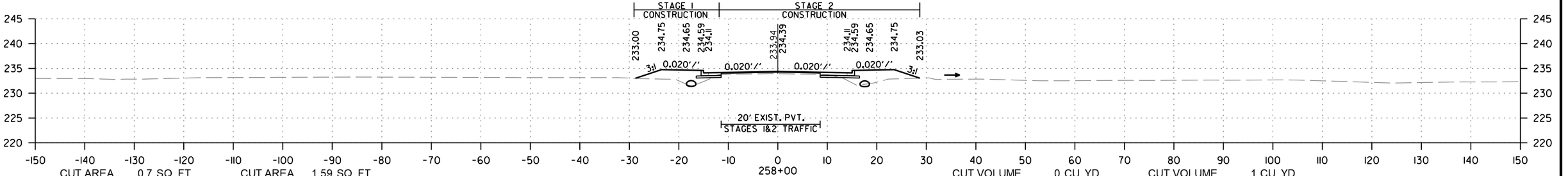
CUT AREA 3.55 SQ. FT. CUT AREA 2.76 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 8.72 SQ. FT. FILL AREA 18.03 SQ. FT. FILL VOLUME 5 CU. YD. FILL VOLUME 10 CU. YD.



CUT AREA 3.28 SQ. FT. CUT AREA 1.49 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 10.94 SQ. FT. FILL AREA 17.69 SQ. FT. FILL VOLUME 9 CU. YD. FILL VOLUME 12 CU. YD.



CUT AREA 0.92 SQ. FT. CUT AREA 1.35 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 23.34 SQ. FT. FILL AREA 27.08 SQ. FT. FILL VOLUME 13 CU. YD. FILL VOLUME 14 CU. YD.



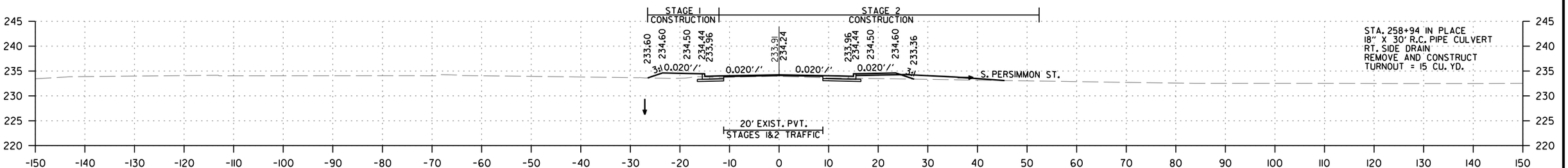
CUT AREA 0.7 SQ. FT. CUT AREA 1.59 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 24.91 SQ. FT. FILL AREA 25.71 SQ. FT. FILL VOLUME 13 CU. YD. FILL VOLUME 11 CU. YD.

HWY. 190 EAST
STA. 258+00 TO STA. 258+43

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R020628.DGN MicroStation v8.11.9.578

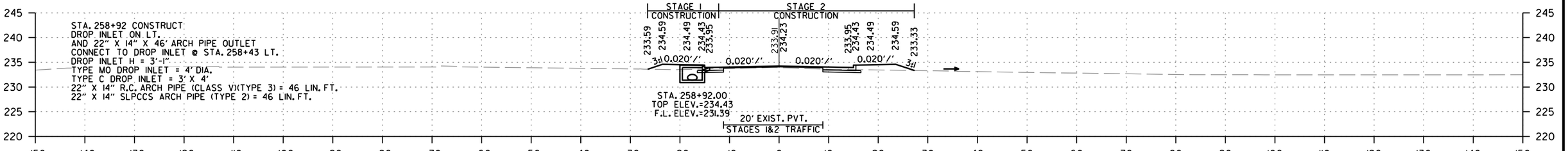
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	145	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



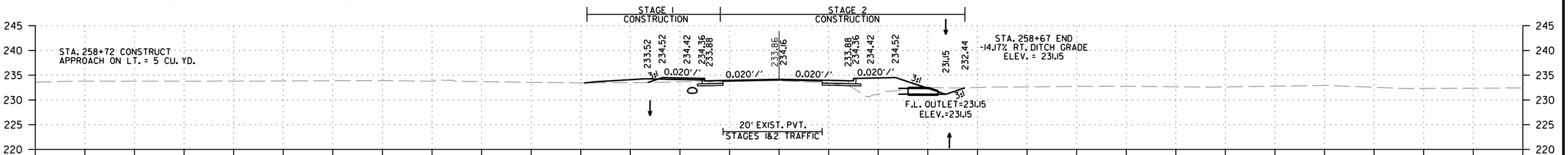
CUT AREA 3.78 SQ. FT. CUT AREA 4.34 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 8.66 SQ. FT. FILL AREA 10.6 SQ. FT. FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.

258+94



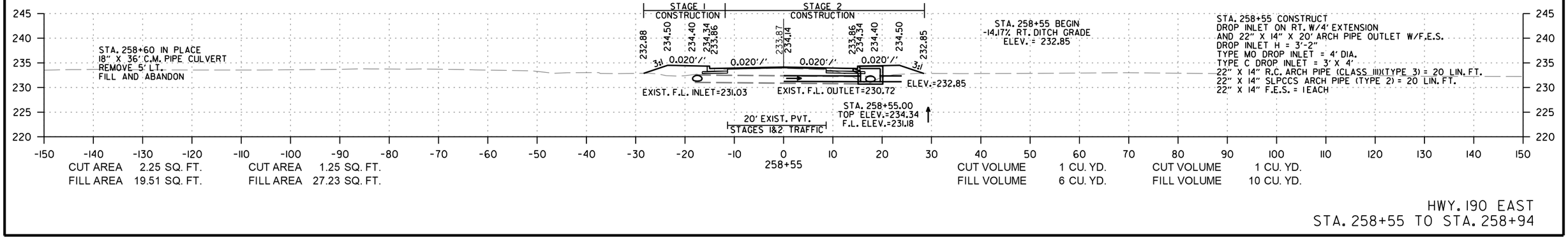
CUT AREA 3.69 SQ. FT. CUT AREA 4.2 SQ. FT. CUT VOLUME 3 CU. YD. CUT VOLUME 3 CU. YD.
FILL AREA 9.28 SQ. FT. FILL AREA 10.83 SQ. FT. FILL VOLUME 8 CU. YD. FILL VOLUME 20 CU. YD.

258+92



CUT AREA 3.83 SQ. FT. CUT AREA 1.46 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 7.56 SQ. FT. FILL AREA 32.28 SQ. FT. FILL VOLUME 6 CU. YD. FILL VOLUME 13 CU. YD.

258+67



CUT AREA 2.25 SQ. FT. CUT AREA 1.25 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 19.51 SQ. FT. FILL AREA 27.23 SQ. FT. FILL VOLUME 6 CU. YD. FILL VOLUME 10 CU. YD.

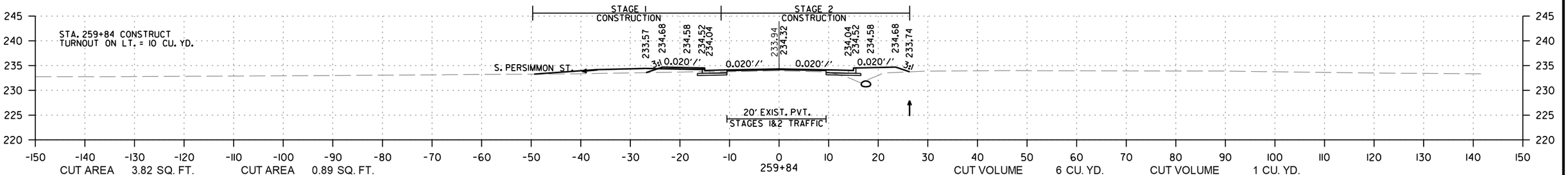
258+55

HWY. 190 EAST
STA. 258+55 TO STA. 258+94

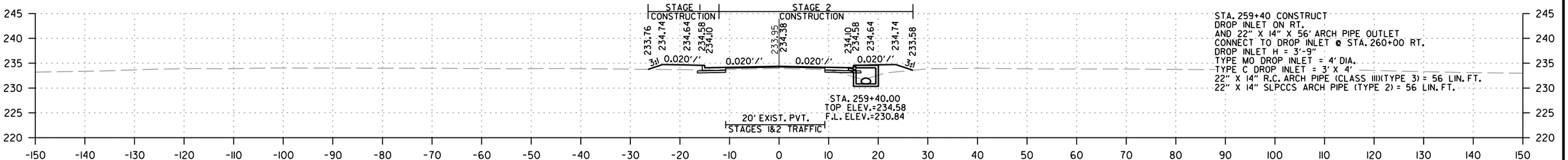
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	146	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2

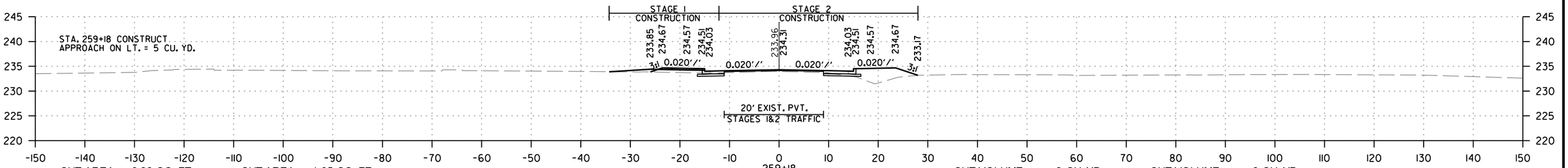


CUT AREA 3.82 SQ. FT. CUT AREA 0.89 SQ. FT. CUT VOLUME 6 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 8.98 SQ. FT. FILL AREA 17.66 SQ. FT. FILL VOLUME 15 CU. YD. FILL VOLUME 32 CU. YD.

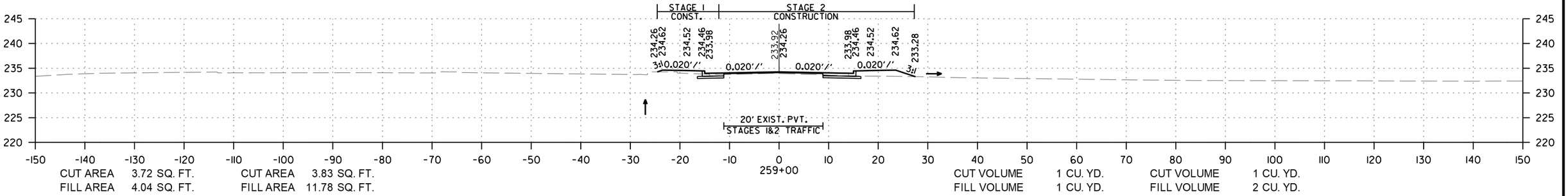


STA. 259+40 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 56' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 260+00 RT.
DROP INLET H = 3'-9"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 56 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 56 LIN. FT.

CUT AREA 3.05 SQ. FT. CUT AREA 0.82 SQ. FT. CUT VOLUME 3 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 9.22 SQ. FT. FILL AREA 21.34 SQ. FT. FILL VOLUME 7 CU. YD. FILL VOLUME 18 CU. YD.



CUT AREA 3.28 SQ. FT. CUT AREA 1.65 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 8.03 SQ. FT. FILL AREA 24 SQ. FT. FILL VOLUME 4 CU. YD. FILL VOLUME 12 CU. YD.



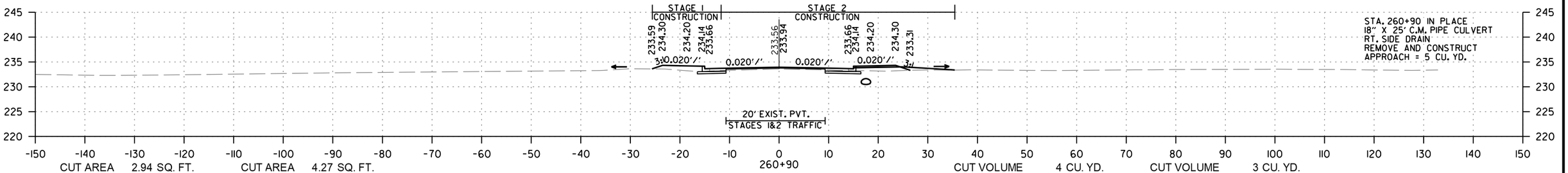
CUT AREA 3.72 SQ. FT. CUT AREA 3.83 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 4.04 SQ. FT. FILL AREA 11.78 SQ. FT. FILL VOLUME 1 CU. YD. FILL VOLUME 2 CU. YD.

HWY. 190 EAST
STA. 259+00 TO STA. 259+84

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R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	147	168
		CROSS SECTIONS				

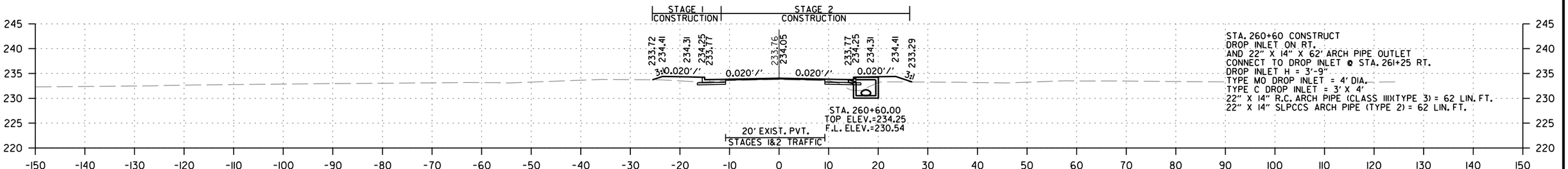
STAGE 1 STAGE 2 STAGE 1 STAGE 2



STA. 260+90 IN PLACE
18" X 25' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

CUT AREA 2.94 SQ. FT. CUT AREA 4.27 SQ. FT.
FILL AREA 8.1 SQ. FT. FILL AREA 9.83 SQ. FT.

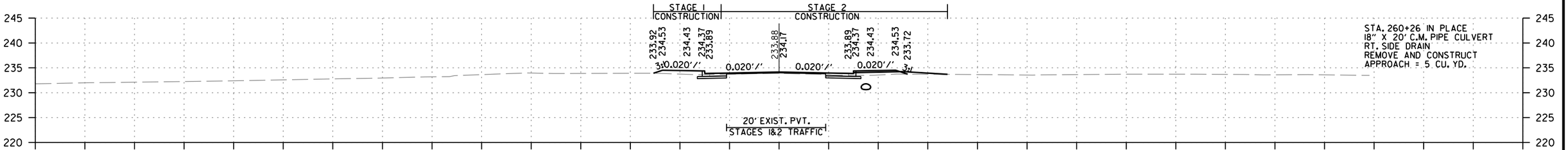
CUT VOLUME 4 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 9 CU. YD. FILL VOLUME 15 CU. YD.



STA. 260+60 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 62' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 261+25 RT.
DROP INLET H = 3'-9"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 62 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 62 LIN. FT.

CUT AREA 3.47 SQ. FT. CUT AREA 1.49 SQ. FT.
FILL AREA 7.5 SQ. FT. FILL AREA 16.96 SQ. FT.

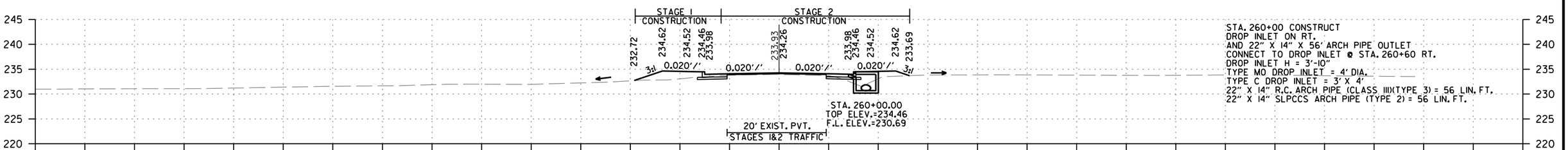
CUT VOLUME 8 CU. YD. CUT VOLUME 4 CU. YD.
FILL VOLUME 27 CU. YD. FILL VOLUME 16 CU. YD.



STA. 260+26 IN PLACE
18" X 20' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE AND CONSTRUCT
APPROACH = 5 CU. YD.

CUT AREA 4.1 SQ. FT. CUT AREA 4.22 SQ. FT.
FILL AREA 6.4 SQ. FT. FILL AREA 8.02 SQ. FT.

CUT VOLUME 4 CU. YD. CUT VOLUME 4 CU. YD.
FILL VOLUME 11 CU. YD. FILL VOLUME 20 CU. YD.



STA. 260+00 CONSTRUCT
DROP INLET ON RT.
AND 22" X 14" X 56' ARCH PIPE OUTLET
CONNECT TO DROP INLET @ STA. 260+60 RT.
DROP INLET H = 3'-10"
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 3' X 4'
22" X 14" R.C. ARCH PIPE (CLASS III)(TYPE 3) = 56 LIN. FT.
22" X 14" SLPCCS ARCH PIPE (TYPE 2) = 56 LIN. FT.

CUT AREA 3.52 SQ. FT. CUT AREA 1.26 SQ. FT.
FILL AREA 16.38 SQ. FT. FILL AREA 16.76 SQ. FT.

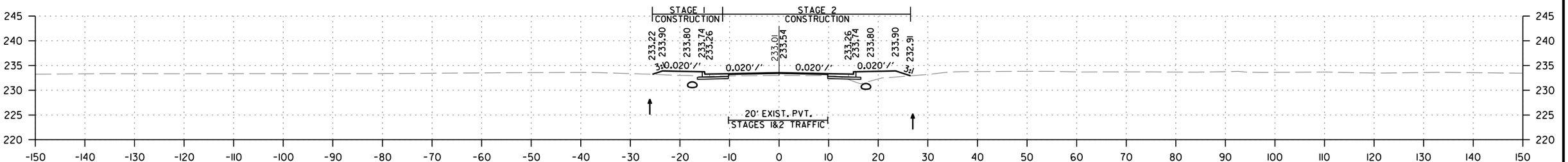
CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 8 CU. YD. FILL VOLUME 10 CU. YD.

HWY. 190 EAST
STA. 260+00 TO STA. 260+90

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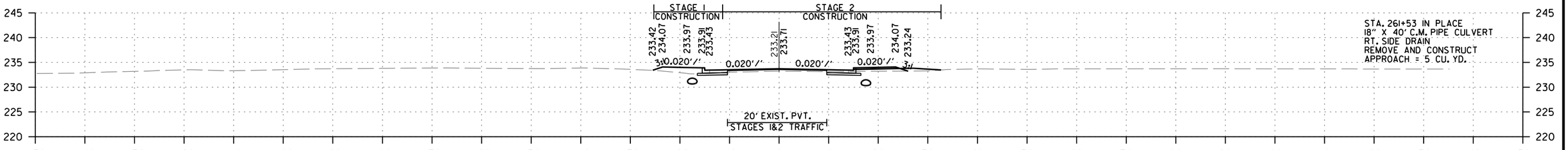
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	148	168
		CROSS SECTIONS				

STAGE 1 STAGE 2 STAGE 1 STAGE 2



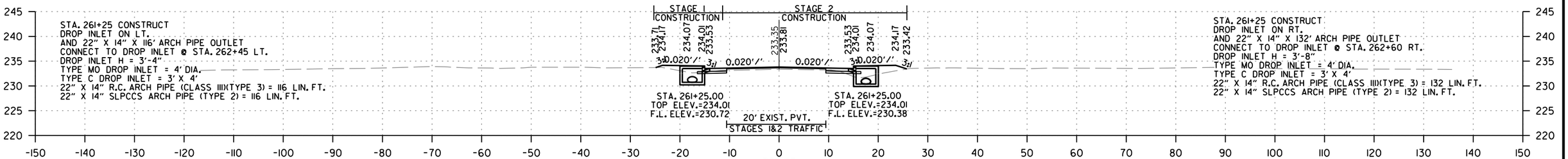
CUT AREA 3.27 SQ. FT. CUT AREA 1.74 SQ. FT.
FILL AREA 7.61 SQ. FT. FILL AREA 15.92 SQ. FT.

CUT VOLUME 5 CU. YD. CUT VOLUME 5 CU. YD.
FILL VOLUME 15 CU. YD. FILL VOLUME 20 CU. YD.



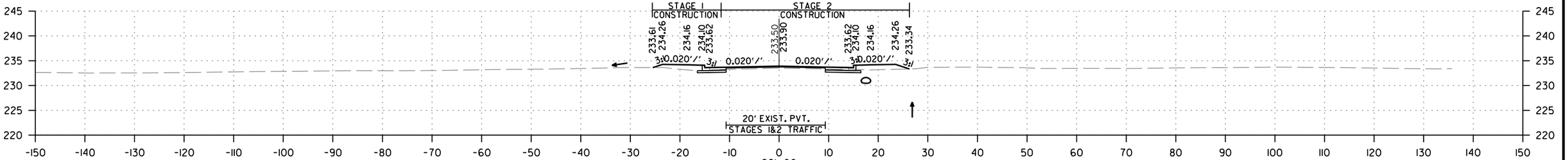
CUT AREA 2.63 SQ. FT. CUT AREA 4.5 SQ. FT.
FILL AREA 9.49 SQ. FT. FILL AREA 7.37 SQ. FT.

CUT VOLUME 5 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 17 CU. YD. FILL VOLUME 12 CU. YD.



CUT AREA 2.3 SQ. FT. CUT AREA 1.71 SQ. FT.
FILL AREA 8.47 SQ. FT. FILL AREA 16.36 SQ. FT.

CUT VOLUME 2 CU. YD. CUT VOLUME 4 CU. YD.
FILL VOLUME 8 CU. YD. FILL VOLUME 17 CU. YD.



CUT AREA 2.67 SQ. FT. CUT AREA 4.39 SQ. FT.
FILL AREA 8.15 SQ. FT. FILL AREA 9.31 SQ. FT.

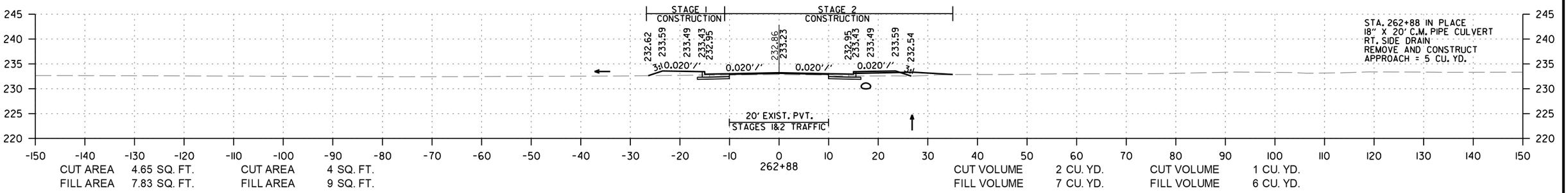
CUT VOLUME 1 CU. YD. CUT VOLUME 2 CU. YD.
FILL VOLUME 3 CU. YD. FILL VOLUME 4 CU. YD.

HWY. 190 EAST
STA. 261+00 TO STA. 262+00

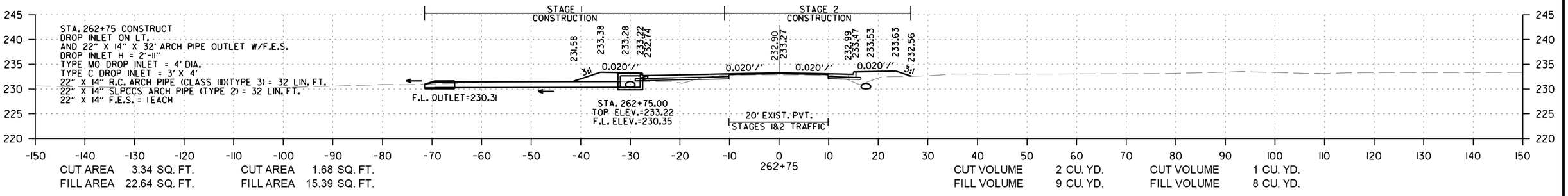
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	149	168
		CROSS SECTIONS				

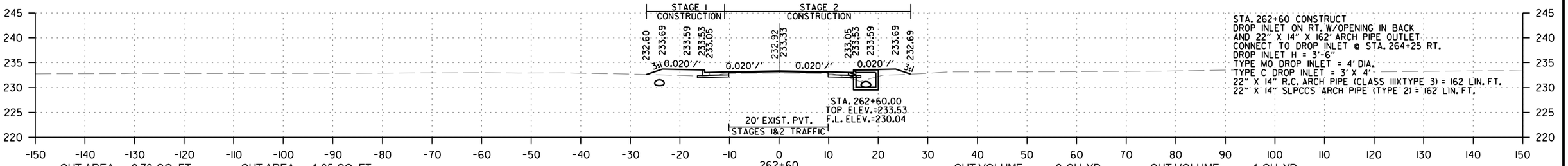
STAGE 1 STAGE 2 STAGE 1 STAGE 2



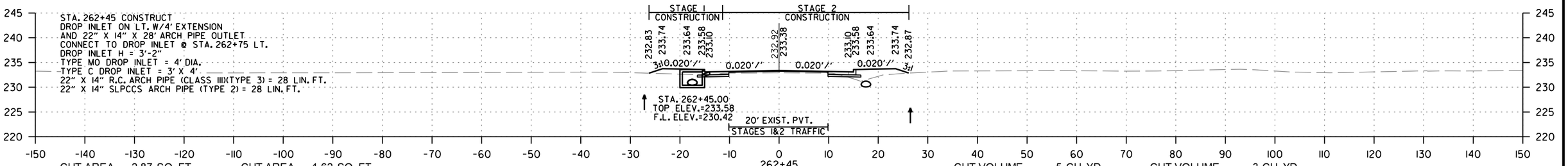
CUT AREA 4.65 SQ. FT. CUT AREA 4 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 7.83 SQ. FT. FILL AREA 9 SQ. FT. FILL VOLUME 7 CU. YD. FILL VOLUME 6 CU. YD.



CUT AREA 3.34 SQ. FT. CUT AREA 1.68 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 22.64 SQ. FT. FILL AREA 15.39 SQ. FT. FILL VOLUME 9 CU. YD. FILL VOLUME 8 CU. YD.



CUT AREA 2.73 SQ. FT. CUT AREA 1.65 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 11.41 SQ. FT. FILL AREA 14.61 SQ. FT. FILL VOLUME 6 CU. YD. FILL VOLUME 8 CU. YD.



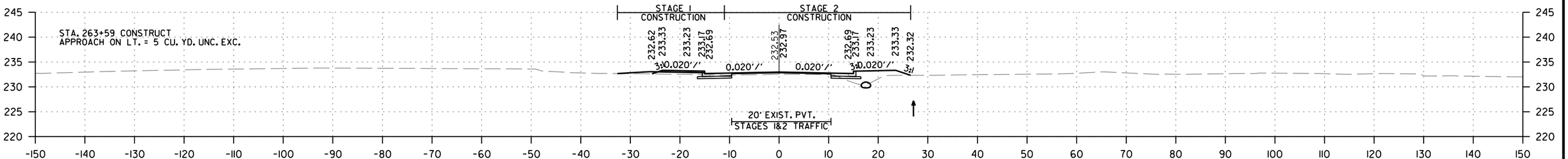
CUT AREA 2.87 SQ. FT. CUT AREA 1.62 SQ. FT. CUT VOLUME 5 CU. YD. CUT VOLUME 3 CU. YD.
FILL AREA 9.76 SQ. FT. FILL AREA 14.51 SQ. FT. FILL VOLUME 14 CU. YD. FILL VOLUME 25 CU. YD.

HWY. 190 EAST
STA. 262+45 TO STA. 262+88

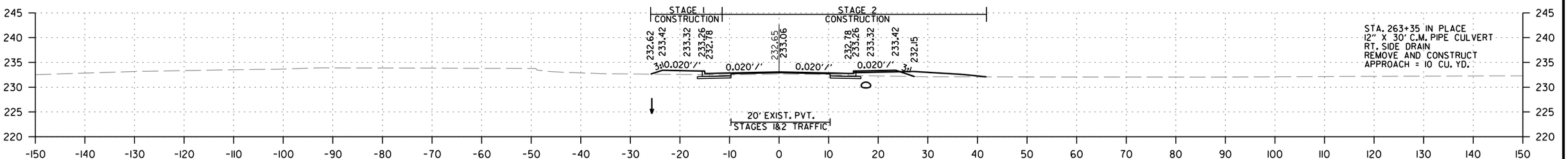
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	150	168
		CROSS SECTIONS				

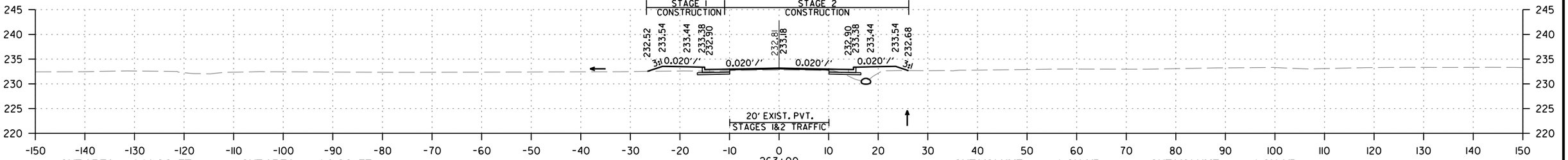
STAGE 1 STAGE 2 STAGE 1 STAGE 2



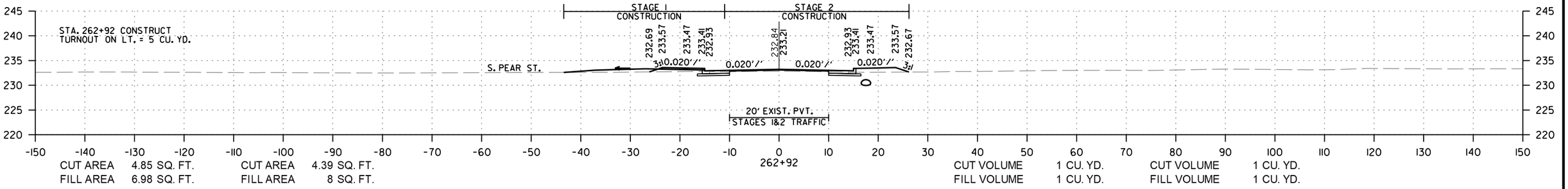
CUT AREA 4.46 SQ. FT. CUT AREA 1 SQ. FT. CUT VOLUME 4 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 6.69 SQ. FT. FILL AREA 17.53 SQ. FT. FILL VOLUME 6 CU. YD. FILL VOLUME 13 CU. YD.



CUT AREA 4.42 SQ. FT. CUT AREA 3.79 SQ. FT. CUT VOLUME 6 CU. YD. CUT VOLUME 3 CU. YD.
FILL AREA 7.26 SQ. FT. FILL AREA 10.76 SQ. FT. FILL VOLUME 10 CU. YD. FILL VOLUME 17 CU. YD.



CUT AREA 4.14 SQ. FT. CUT AREA 1.6 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 8.52 SQ. FT. FILL AREA 15.48 SQ. FT. FILL VOLUME 2 CU. YD. FILL VOLUME 3 CU. YD.



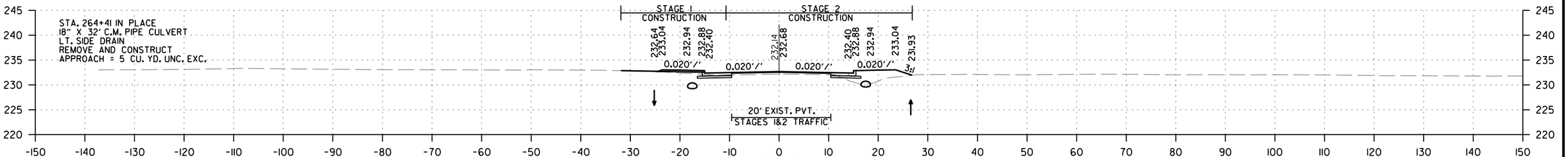
CUT AREA 4.85 SQ. FT. CUT AREA 4.39 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 6.98 SQ. FT. FILL AREA 8 SQ. FT. FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.

HWY. 190 EAST
STA. 262+92 TO STA. 263+59

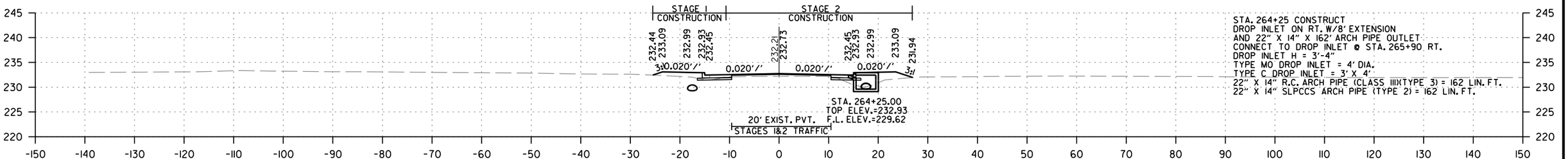
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	151	168
		CROSS SECTIONS				

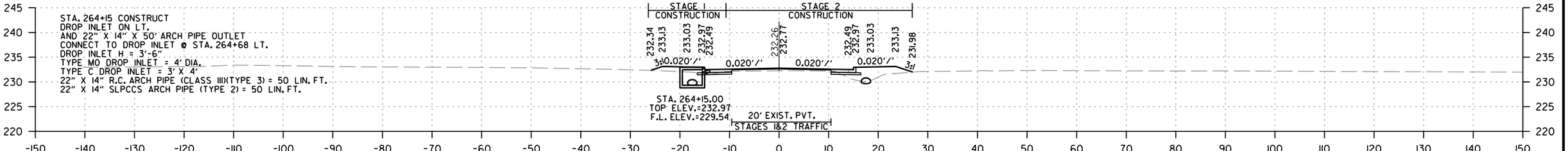
STAGE 1 STAGE 2 STAGE 1 STAGE 2



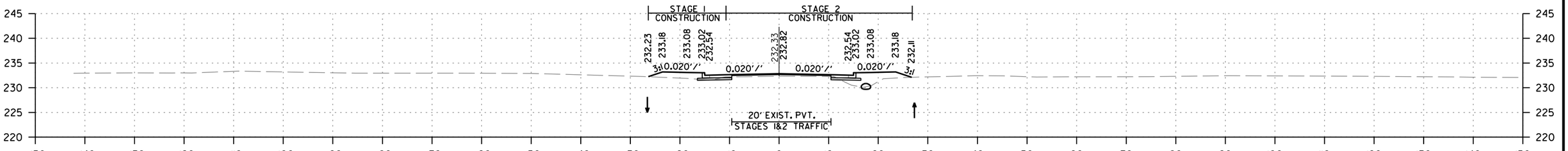
CUT AREA 3.99 SQ. FT. CUT AREA 0.91 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 5 SQ. FT. FILL AREA 21.28 SQ. FT. FILL VOLUME 4 CU. YD. FILL VOLUME 13 CU. YD.



CUT AREA 1.83 SQ. FT. CUT AREA 0.89 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 7.98 SQ. FT. FILL AREA 21.56 SQ. FT. FILL VOLUME 3 CU. YD. FILL VOLUME 8 CU. YD.



CUT AREA 2.01 SQ. FT. CUT AREA 0.9 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 9.19 SQ. FT. FILL AREA 21.62 SQ. FT. FILL VOLUME 6 CU. YD. FILL VOLUME 12 CU. YD.



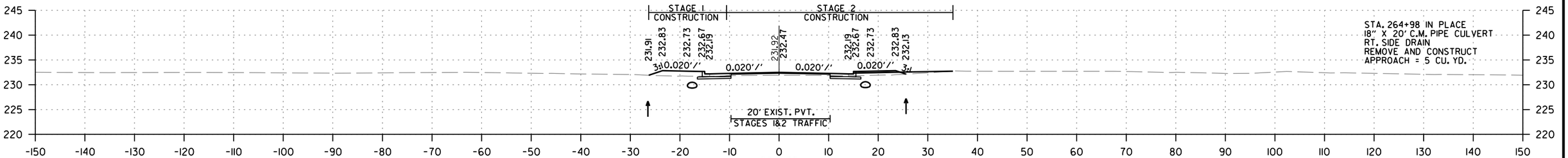
CUT AREA 1.83 SQ. FT. CUT AREA 0.84 SQ. FT. CUT VOLUME 5 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 10.97 SQ. FT. FILL AREA 20.32 SQ. FT. FILL VOLUME 13 CU. YD. FILL VOLUME 29 CU. YD.

HWY. 190 EAST
STA. 264+00 TO STA. 264+41

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R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	152	168
		CROSS SECTIONS				

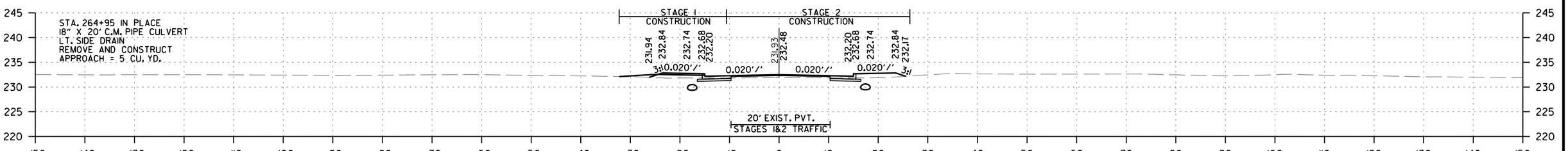
STAGE 1 STAGE 2 STAGE 1 STAGE 2



264+98

CUT AREA 3.43 SQ. FT. CUT AREA 3.71 SQ. FT.
FILL AREA 9.41 SQ. FT. FILL AREA 7.63 SQ. FT.

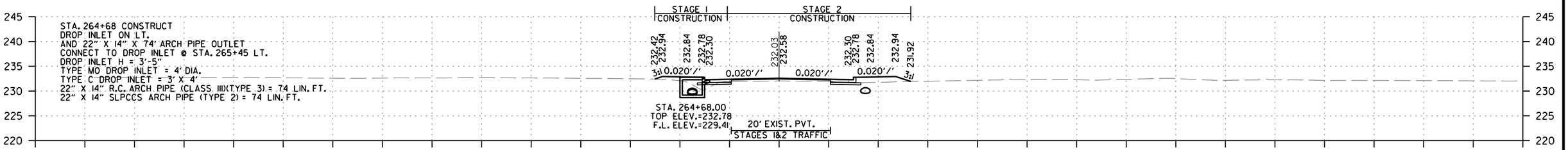
CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.



264+95

CUT AREA 3.93 SQ. FT. CUT AREA 3.78 SQ. FT.
FILL AREA 8.76 SQ. FT. FILL AREA 7.65 SQ. FT.

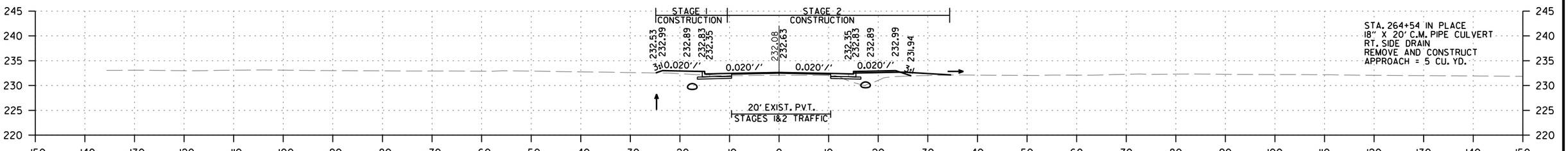
CUT VOLUME 3 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 10 CU. YD. FILL VOLUME 9 CU. YD.



264+68

CUT AREA 1.4 SQ. FT. CUT AREA 3.03 SQ. FT.
FILL AREA 10.61 SQ. FT. FILL AREA 10.47 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 4 CU. YD. FILL VOLUME 8 CU. YD.



264+54

CUT AREA 4.34 SQ. FT. CUT AREA 1.08 SQ. FT.
FILL AREA 4.78 SQ. FT. FILL AREA 18.61 SQ. FT.

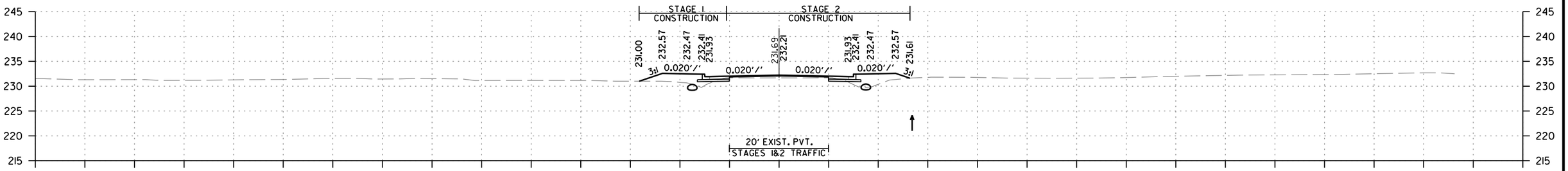
CUT VOLUME 2 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 2 CU. YD. FILL VOLUME 10 CU. YD.

HWY. 190 EAST
STA. 264+54 TO STA. 264+98

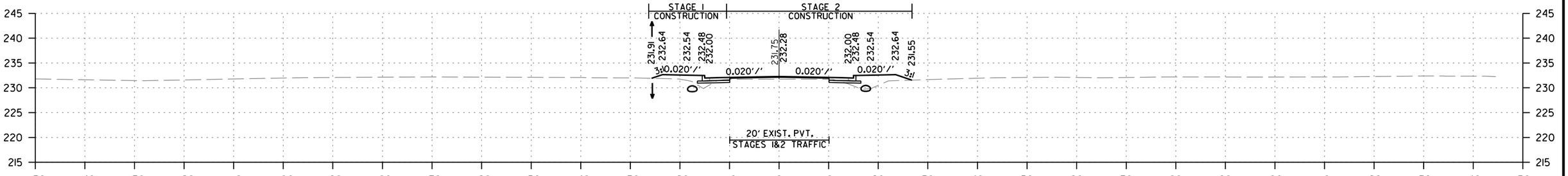
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	153	168
		CROSS SECTIONS				

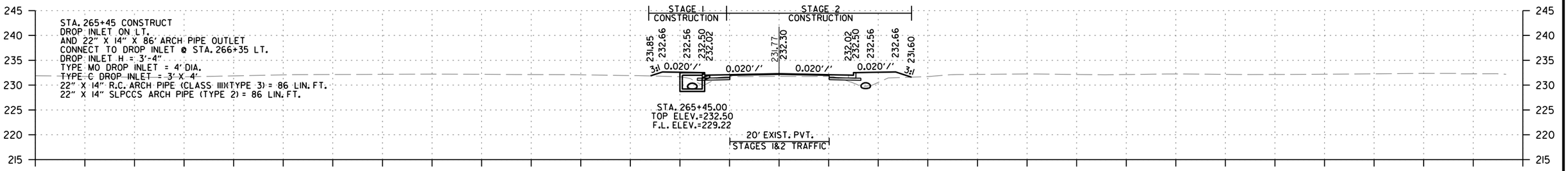
STAGE 1 STAGE 2 STAGE 1 STAGE 2



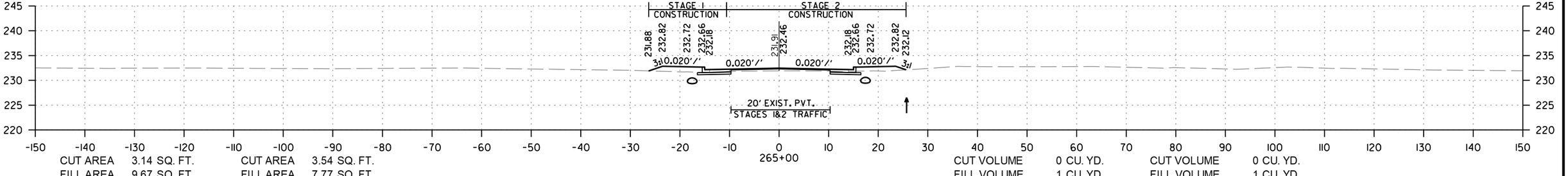
CUT AREA 1.45 SQ. FT. CUT AREA 1.67 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 19.38 SQ. FT. FILL AREA 19.17 SQ. FT. FILL VOLUME 11 CU. YD. FILL VOLUME 14 CU. YD.



CUT AREA 1.68 SQ. FT. CUT AREA 1.28 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 10.95 SQ. FT. FILL AREA 19.15 SQ. FT. FILL VOLUME 2 CU. YD. FILL VOLUME 4 CU. YD.



CUT AREA 1.58 SQ. FT. CUT AREA 1.2 SQ. FT. CUT VOLUME 4 CU. YD. CUT VOLUME 4 CU. YD.
FILL AREA 11.92 SQ. FT. FILL AREA 18.9 SQ. FT. FILL VOLUME 18 CU. YD. FILL VOLUME 22 CU. YD.



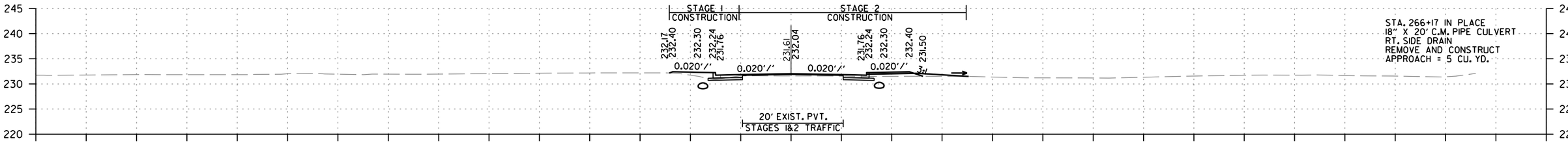
CUT AREA 3.14 SQ. FT. CUT AREA 3.54 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 9.67 SQ. FT. FILL AREA 7.77 SQ. FT. FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.

HWY. 190 EAST
STA. 265+00 TO STA. 265+70

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R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	154	168
		CROSS SECTIONS				

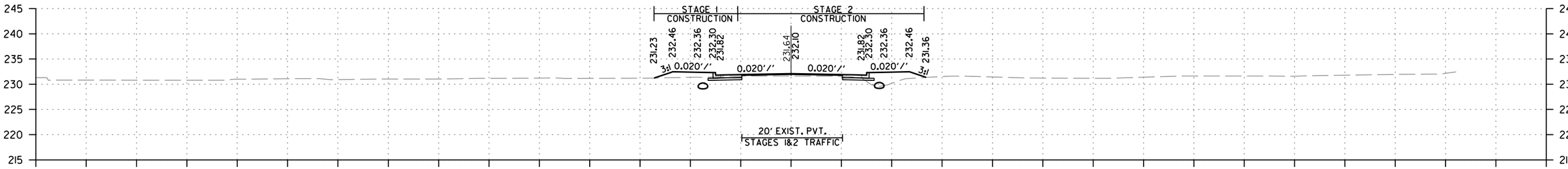
STAGE 1 STAGE 2 STAGE 1 STAGE 2



266+17

CUT AREA 2.92 SQ. FT. CUT AREA 4.16 SQ. FT.
FILL AREA 5.6 SQ. FT. FILL AREA 7.82 SQ. FT.

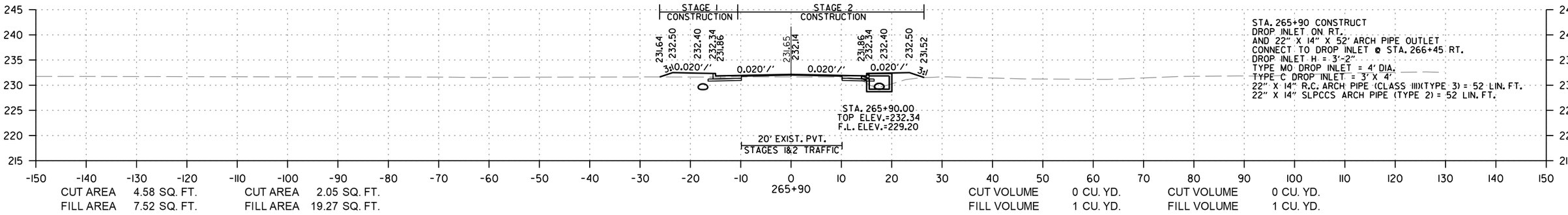
CUT VOLUME 2 CU. YD. CUT VOLUME 2 CU. YD.
FILL VOLUME 5 CU. YD. FILL VOLUME 9 CU. YD.



266+00

CUT AREA 4.34 SQ. FT. CUT AREA 2.34 SQ. FT.
FILL AREA 10.34 SQ. FT. FILL AREA 19.37 SQ. FT.

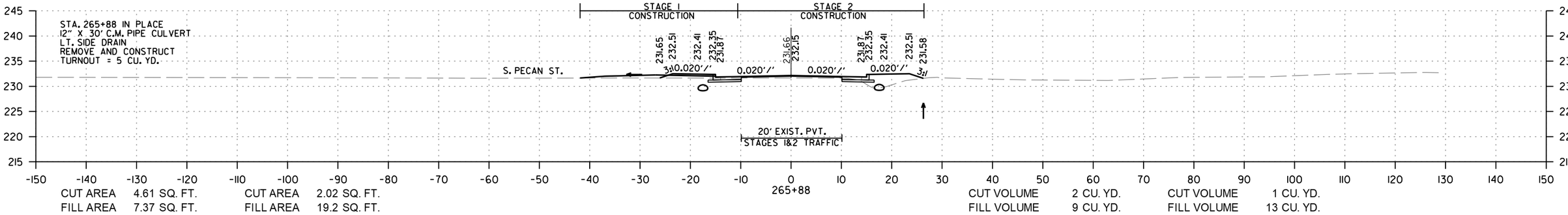
CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 3 CU. YD. FILL VOLUME 7 CU. YD.



265+90

CUT AREA 4.58 SQ. FT. CUT AREA 2.05 SQ. FT.
FILL AREA 7.52 SQ. FT. FILL AREA 19.27 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 1 CU. YD. FILL VOLUME 1 CU. YD.



265+88

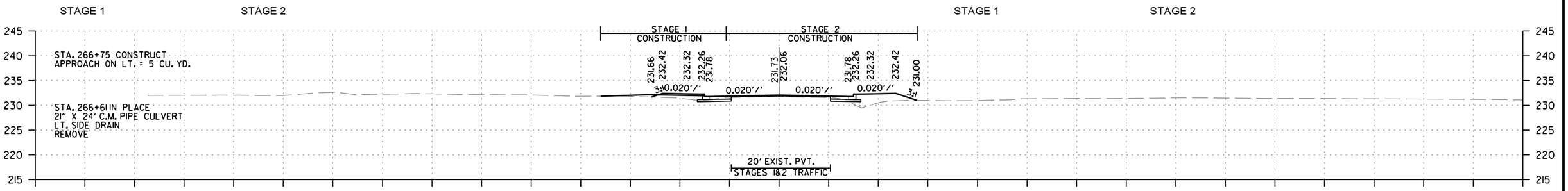
CUT AREA 4.61 SQ. FT. CUT AREA 2.02 SQ. FT.
FILL AREA 7.37 SQ. FT. FILL AREA 19.2 SQ. FT.

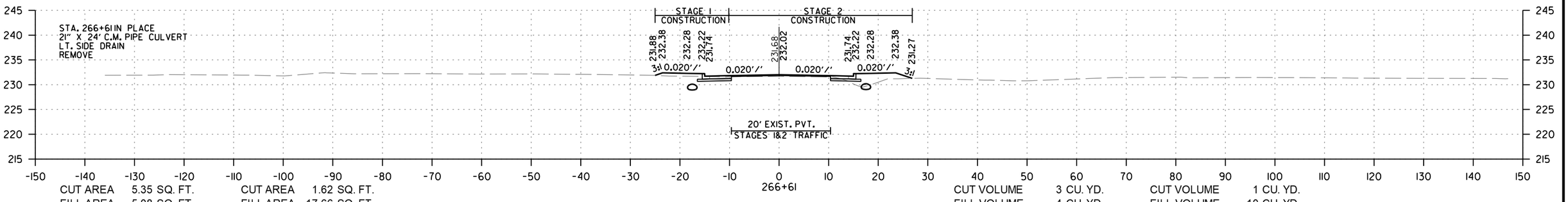
CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 9 CU. YD. FILL VOLUME 13 CU. YD.

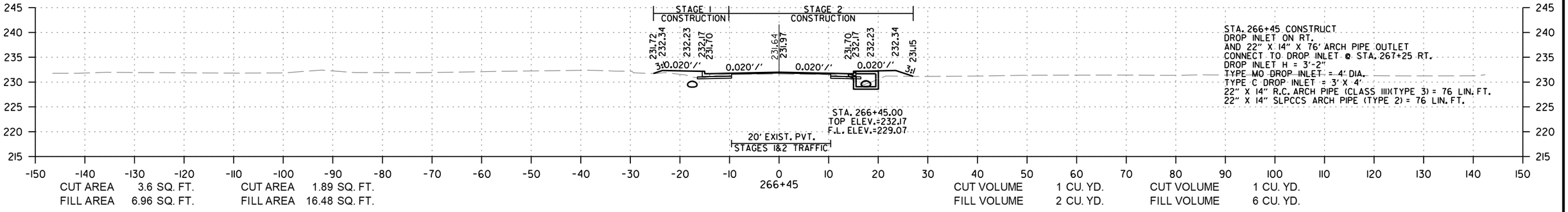
HWY. 190 EAST
STA. 265+88 TO STA. 266+17

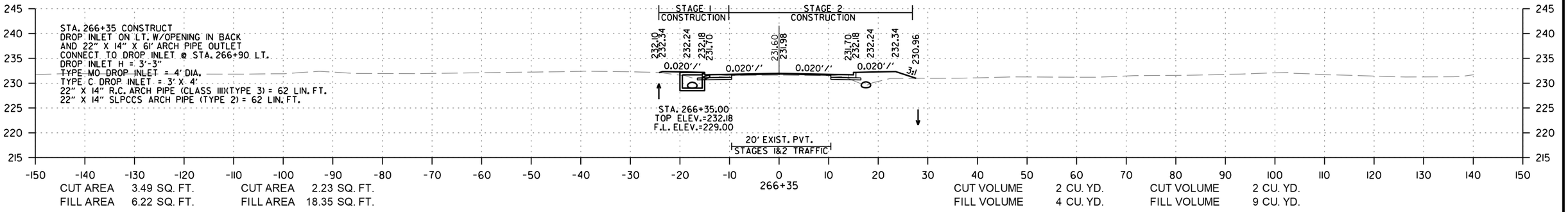
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	155	168
		CROSS SECTIONS				





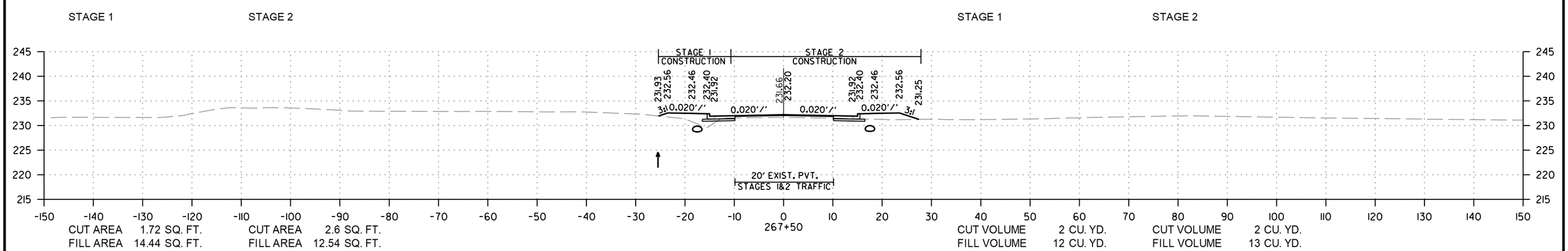


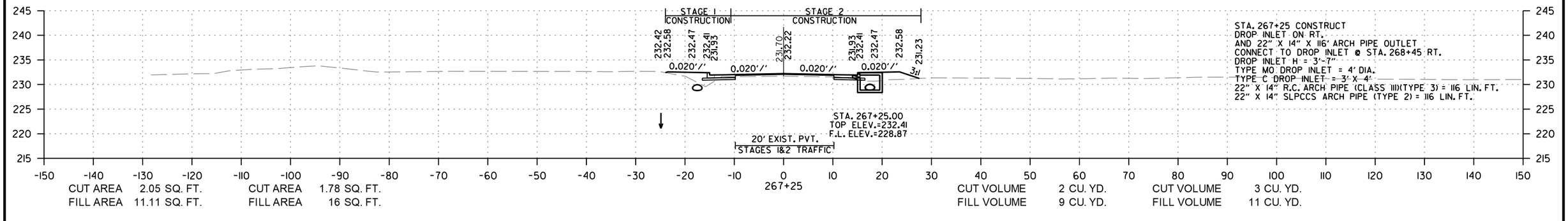


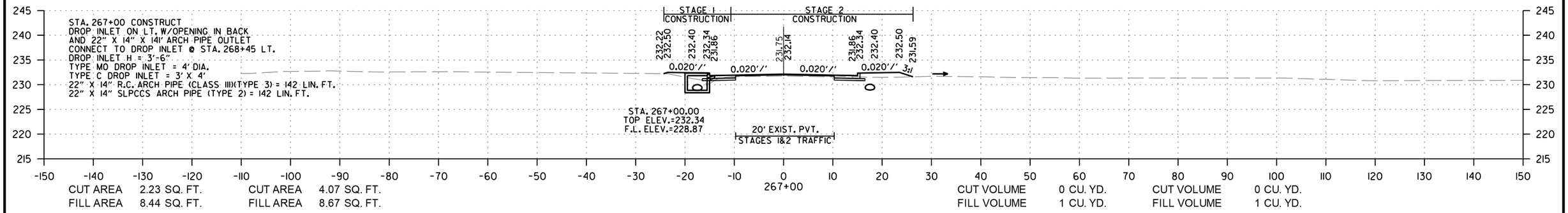
HWY. 190 EAST
STA. 266+35 TO STA. 266+74

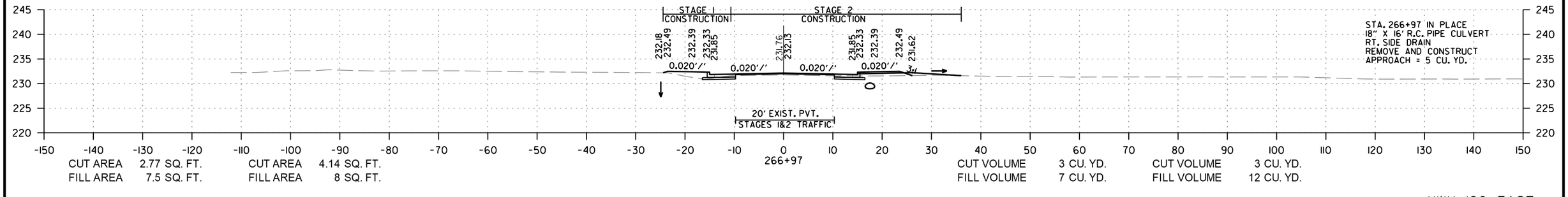
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	156	168
		CROSS SECTIONS				





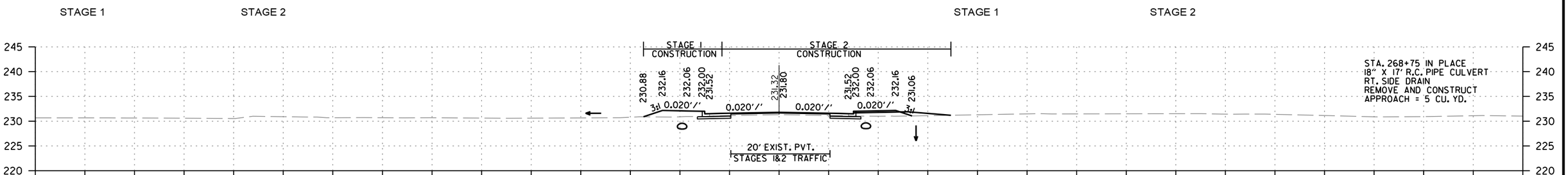


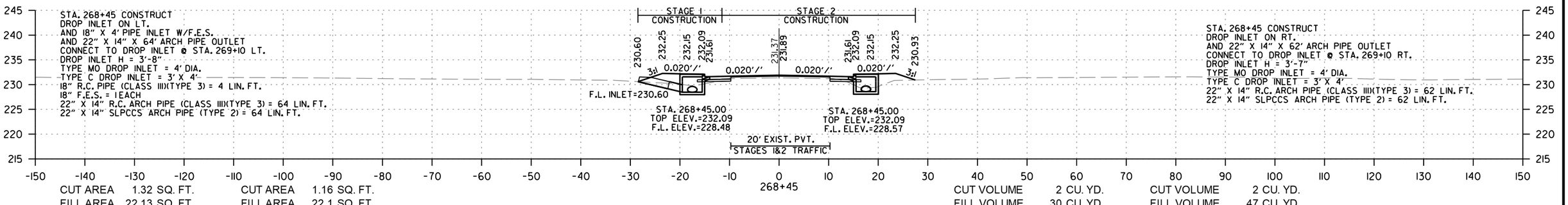


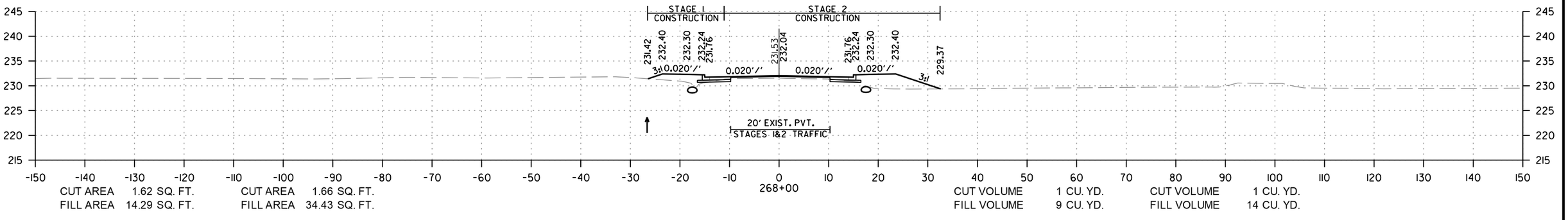
HWY. 190 EAST
STA. 266+97 TO STA. 267+50

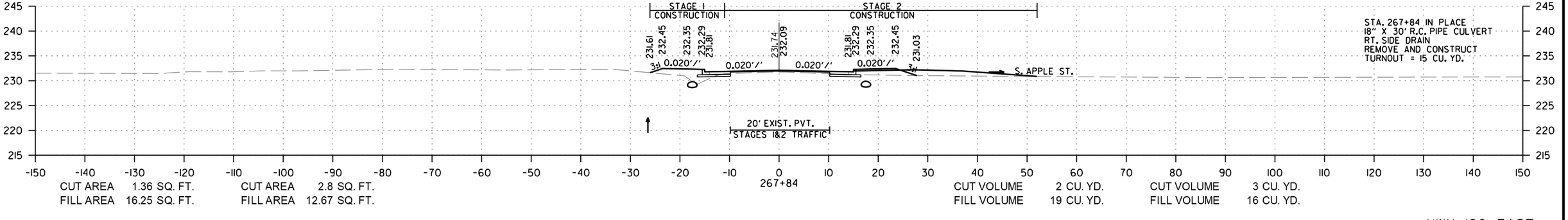
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	157	168
		CROSS SECTIONS				





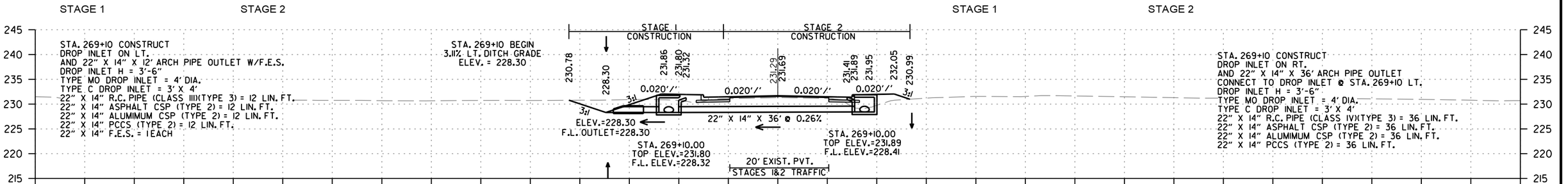


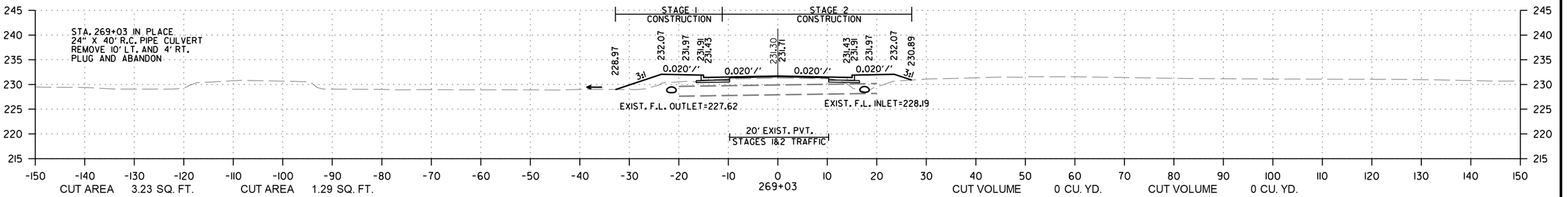


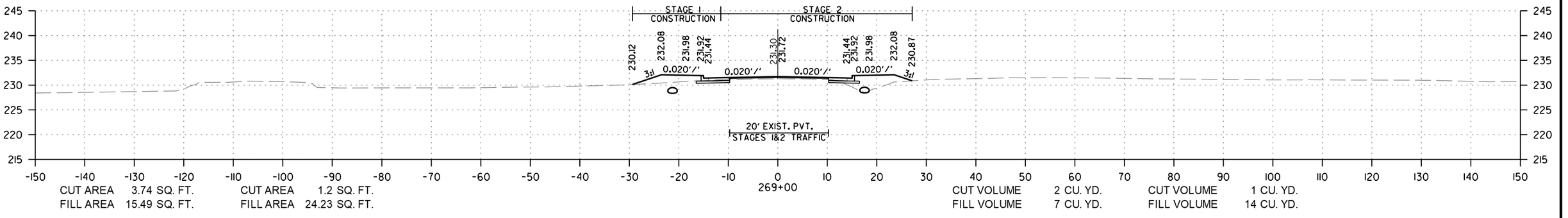
HWY. 190 EAST
STA. 267+84 TO STA. 268+75

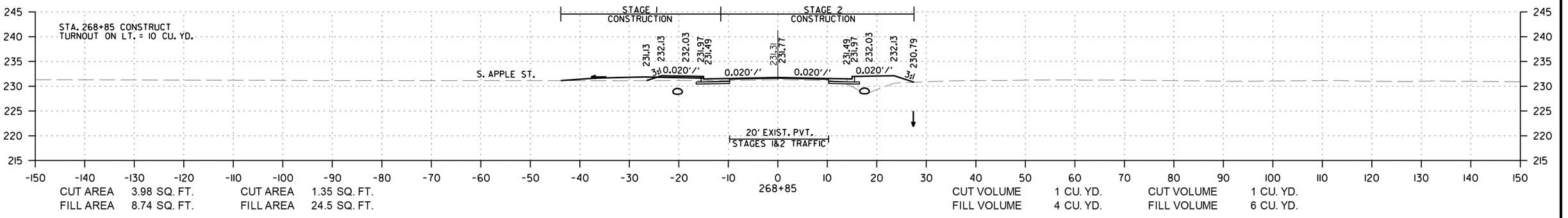
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	158	168
		CROSS SECTIONS				





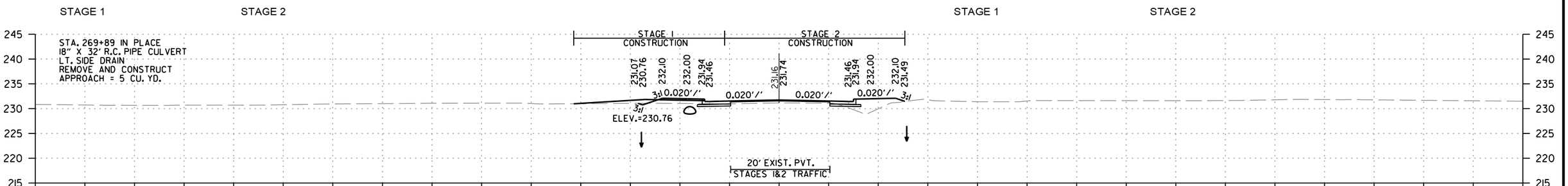


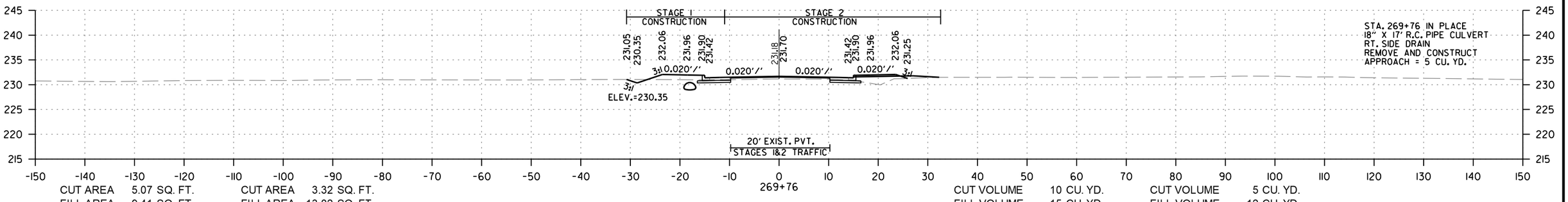


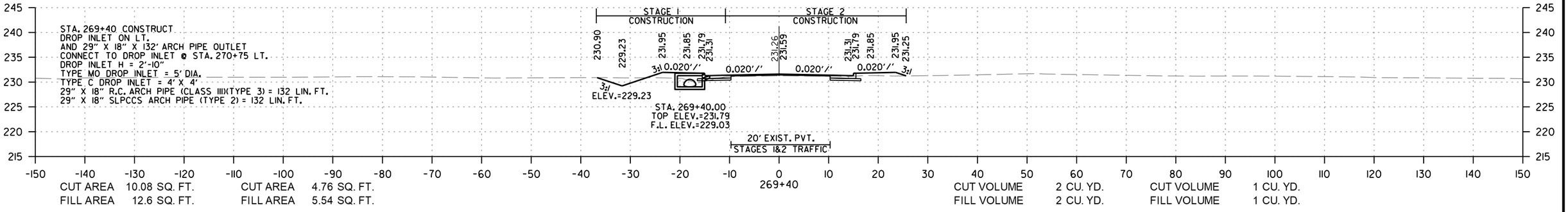
HWY. 190 EAST
STA. 268+85 TO STA. 269+10

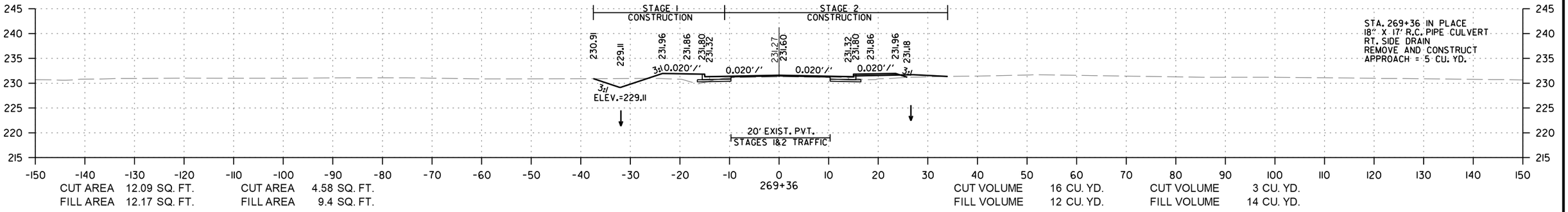
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	159	168
		CROSS SECTIONS				





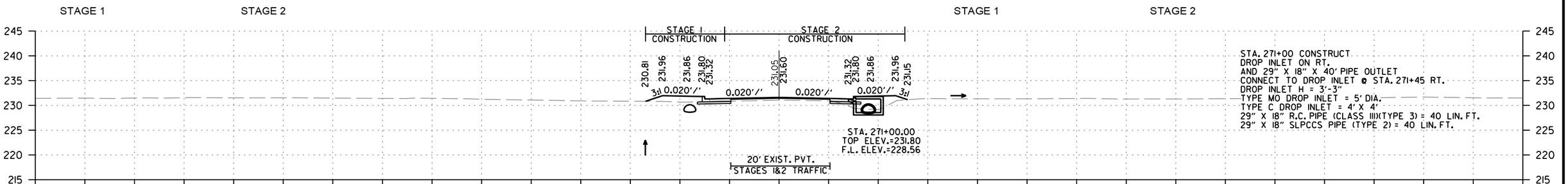




HWY. 190 EAST
STA. 269+36 TO STA. 269+89

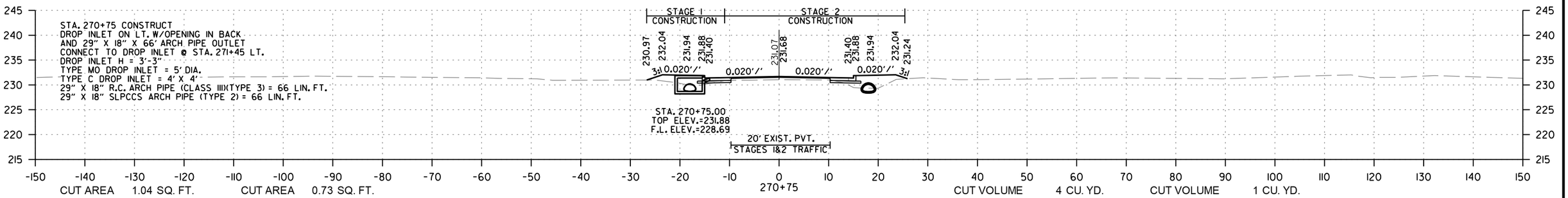
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	160	168
		CROSS SECTIONS				



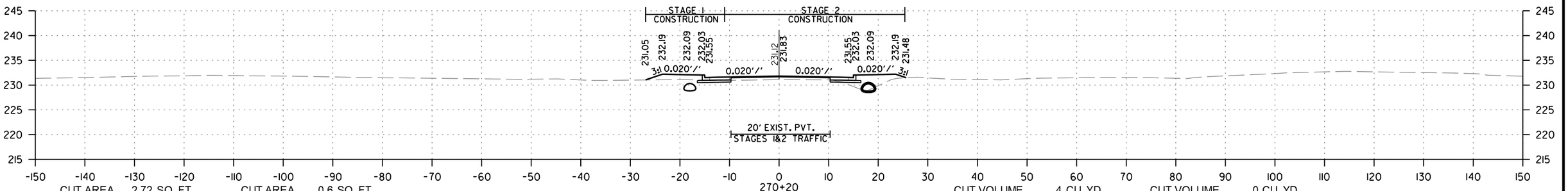
CUT AREA 3.02 SQ. FT. CUT AREA 0.75 SQ. FT.
FILL AREA 11.36 SQ. FT. FILL AREA 20.61 SQ. FT.

CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 12 CU. YD. FILL VOLUME 19 CU. YD.



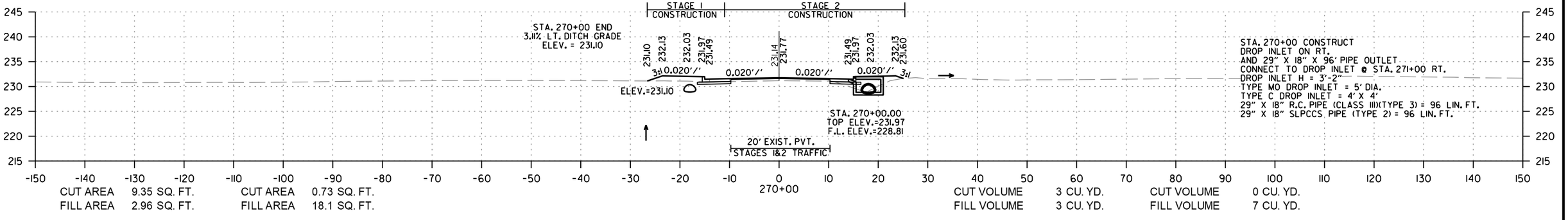
CUT AREA 1.04 SQ. FT. CUT AREA 0.73 SQ. FT.
FILL AREA 15.45 SQ. FT. FILL AREA 19.98 SQ. FT.

CUT VOLUME 4 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 26 CU. YD. FILL VOLUME 40 CU. YD.



CUT AREA 2.72 SQ. FT. CUT AREA 0.6 SQ. FT.
FILL AREA 10.02 SQ. FT. FILL AREA 19.78 SQ. FT.

CUT VOLUME 4 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 5 CU. YD. FILL VOLUME 14 CU. YD.



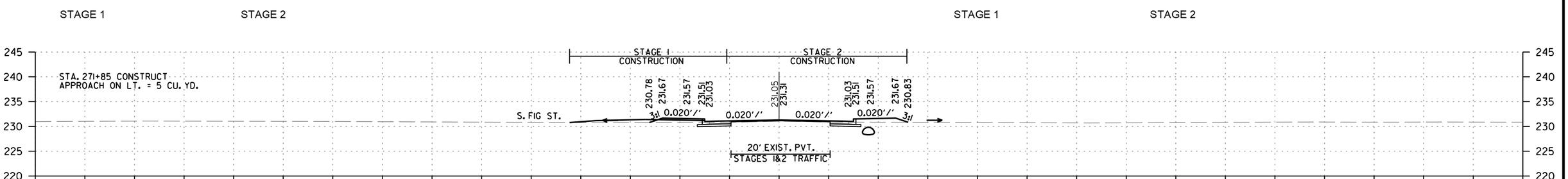
CUT AREA 9.35 SQ. FT. CUT AREA 0.73 SQ. FT.
FILL AREA 2.96 SQ. FT. FILL AREA 18.1 SQ. FT.

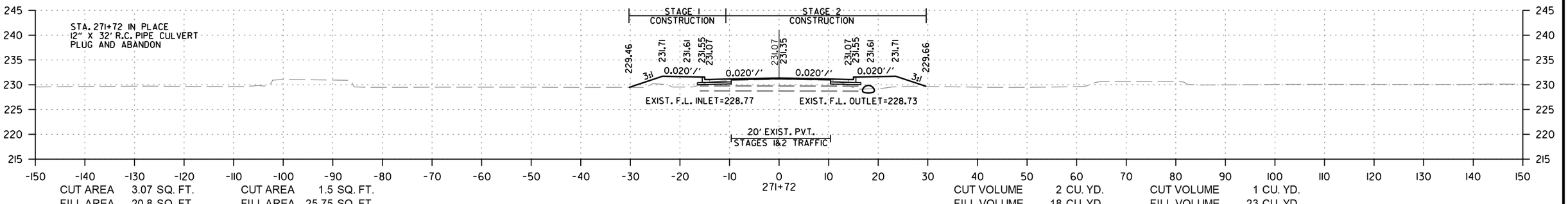
CUT VOLUME 3 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 3 CU. YD. FILL VOLUME 7 CU. YD.

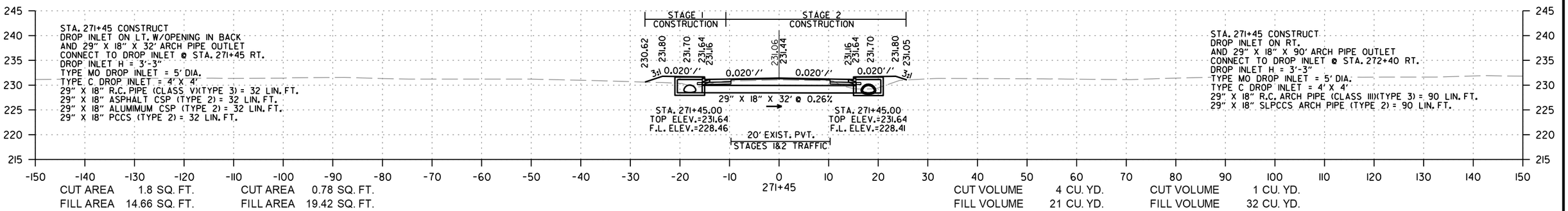
HWY. 190 EAST
STA. 270+00 TO STA. 271+00

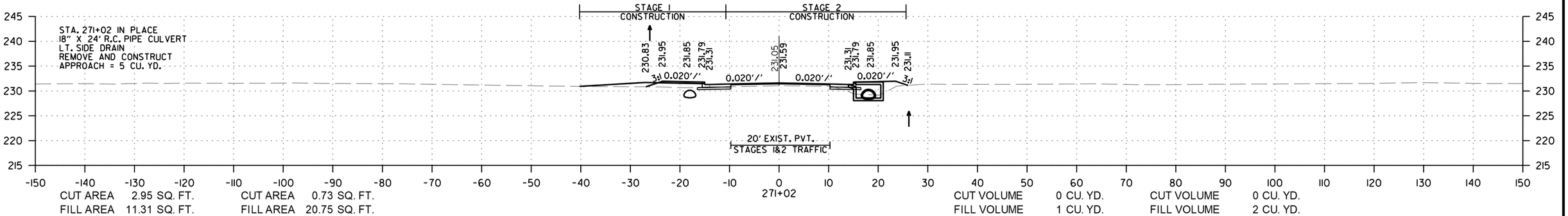
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	161	168
		CROSS SECTIONS				







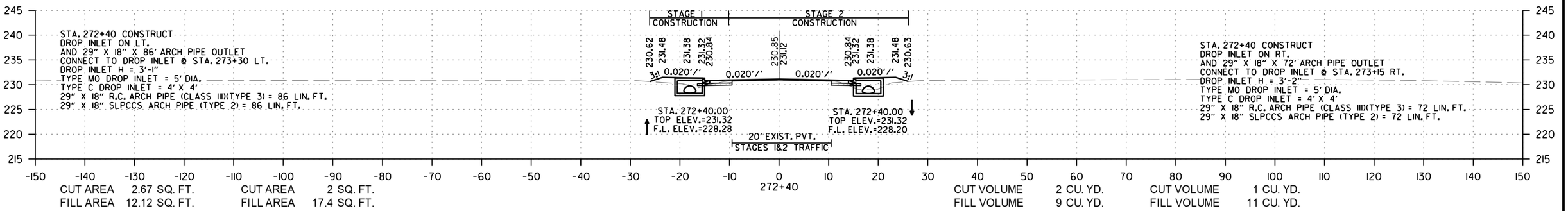


HWY. 190 EAST
STA. 271+02 TO STA. 271+85

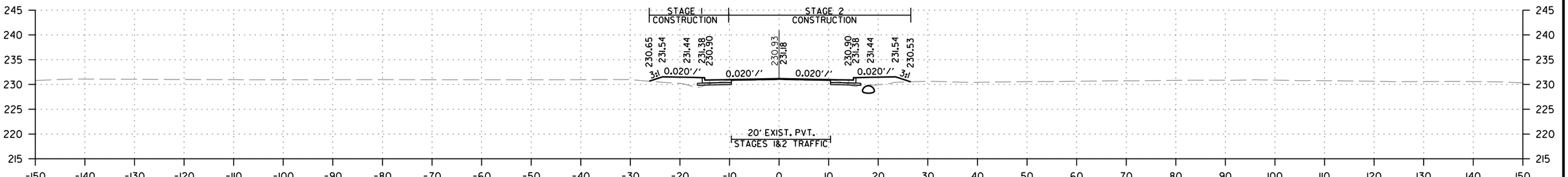
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	162	168
		CROSS SECTIONS				

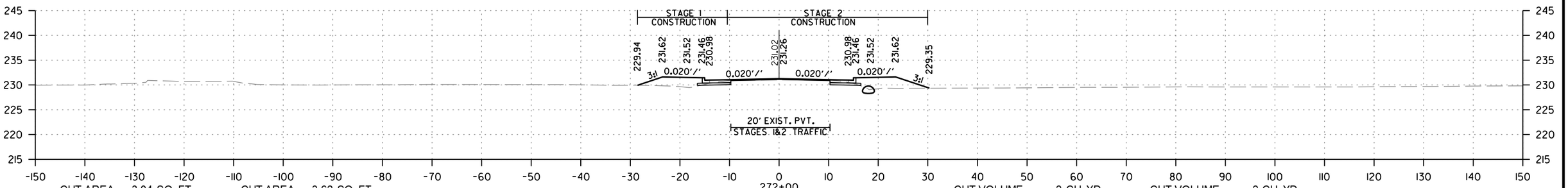
STAGE 1 STAGE 2 STAGE 1 STAGE 2



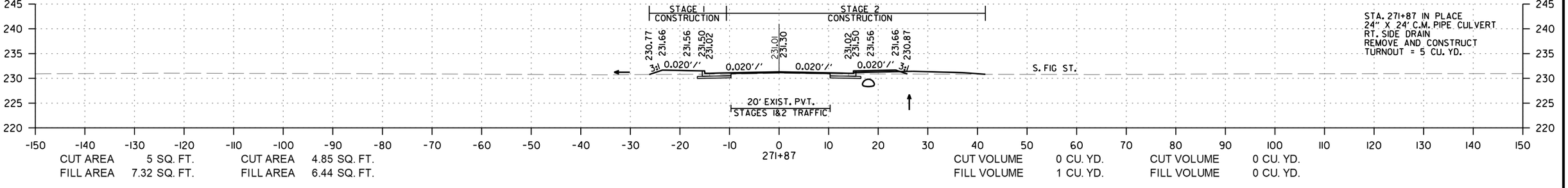
CUT AREA 2.67 SQ. FT. CUT AREA 2 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 12.12 SQ. FT. FILL AREA 17.4 SQ. FT. FILL VOLUME 9 CU. YD. FILL VOLUME 11 CU. YD.



CUT AREA 2.61 SQ. FT. CUT AREA 2.15 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 12.82 SQ. FT. FILL AREA 13.36 SQ. FT. FILL VOLUME 12 CU. YD. FILL VOLUME 15 CU. YD.



CUT AREA 3.04 SQ. FT. CUT AREA 3.62 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 2 CU. YD.
FILL AREA 18.81 SQ. FT. FILL AREA 24.52 SQ. FT. FILL VOLUME 6 CU. YD. FILL VOLUME 7 CU. YD.



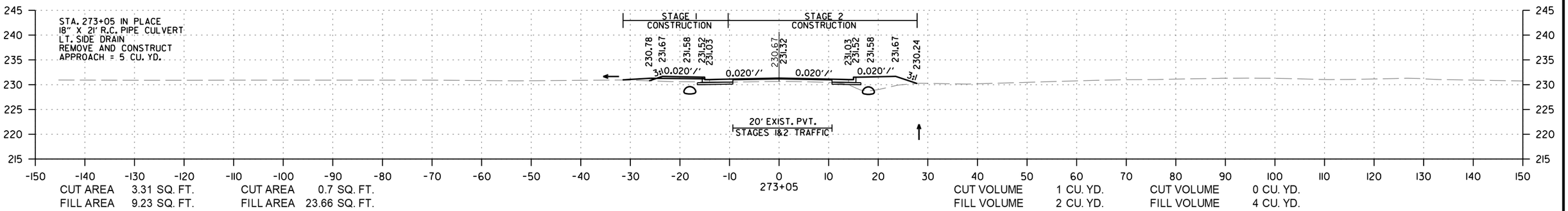
CUT AREA 5 SQ. FT. CUT AREA 4.85 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 7.32 SQ. FT. FILL AREA 6.44 SQ. FT. FILL VOLUME 1 CU. YD. FILL VOLUME 0 CU. YD.

HWY. 190 EAST
STA. 271+87 TO STA. 272+40

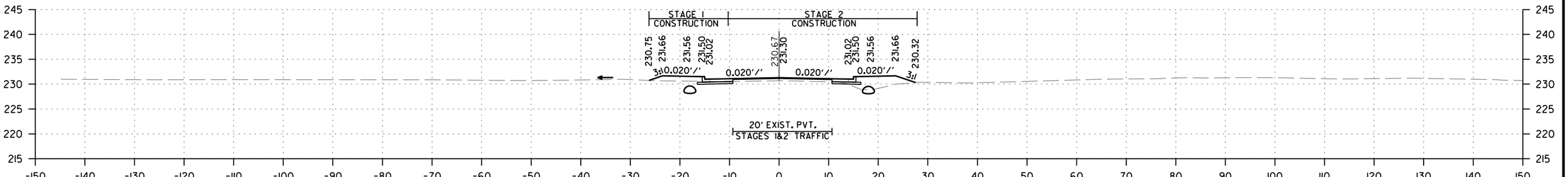
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	163	168
		CROSS SECTIONS				

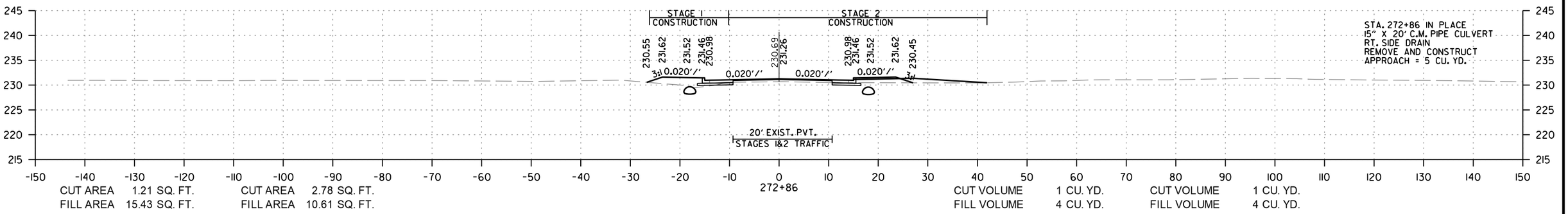
STAGE 1 STAGE 2 STAGE 1 STAGE 2



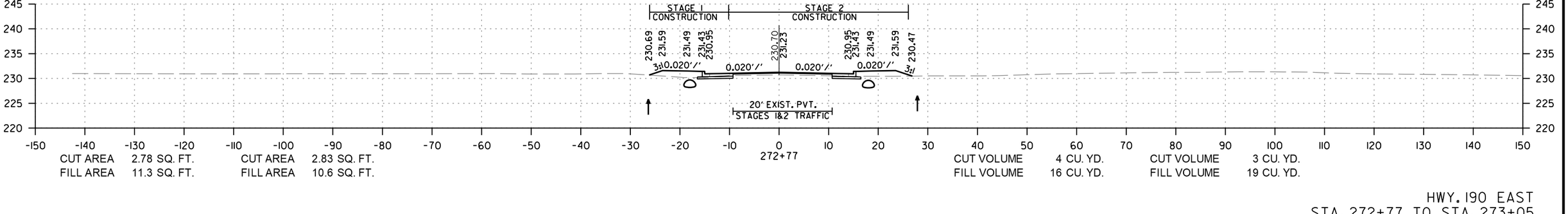
CUT AREA 3.31 SQ. FT. CUT AREA 0.7 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 9.23 SQ. FT. FILL AREA 23.66 SQ. FT. FILL VOLUME 2 CU. YD. FILL VOLUME 4 CU. YD.



CUT AREA 3.49 SQ. FT. CUT AREA 0.83 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 9.08 SQ. FT. FILL AREA 22.28 SQ. FT. FILL VOLUME 6 CU. YD. FILL VOLUME 9 CU. YD.



CUT AREA 1.21 SQ. FT. CUT AREA 2.78 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL AREA 15.43 SQ. FT. FILL AREA 10.61 SQ. FT. FILL VOLUME 4 CU. YD. FILL VOLUME 4 CU. YD.



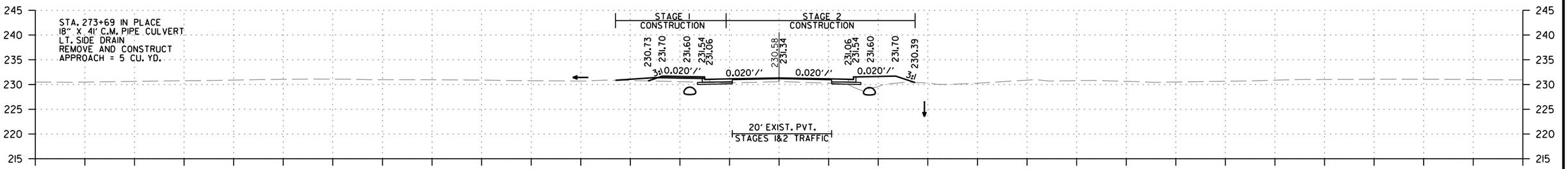
CUT AREA 2.78 SQ. FT. CUT AREA 2.83 SQ. FT. CUT VOLUME 4 CU. YD. CUT VOLUME 3 CU. YD.
FILL AREA 11.3 SQ. FT. FILL AREA 10.6 SQ. FT. FILL VOLUME 16 CU. YD. FILL VOLUME 19 CU. YD.

HWY. 190 EAST
STA. 272+77 TO STA. 273+05

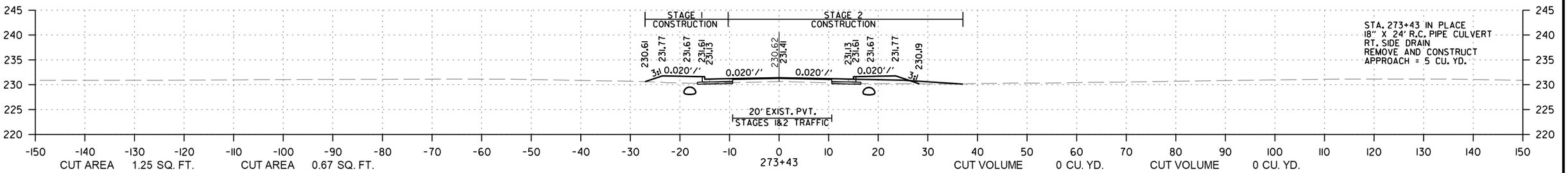
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	164	168
		CROSS SECTIONS				

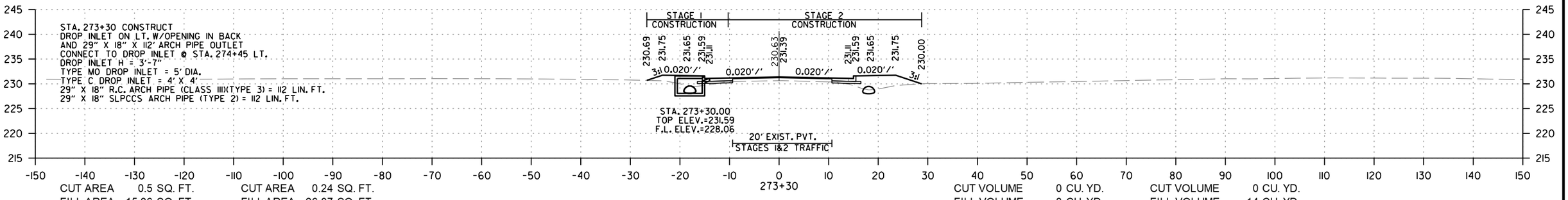
STAGE 1 STAGE 2 STAGE 1 STAGE 2



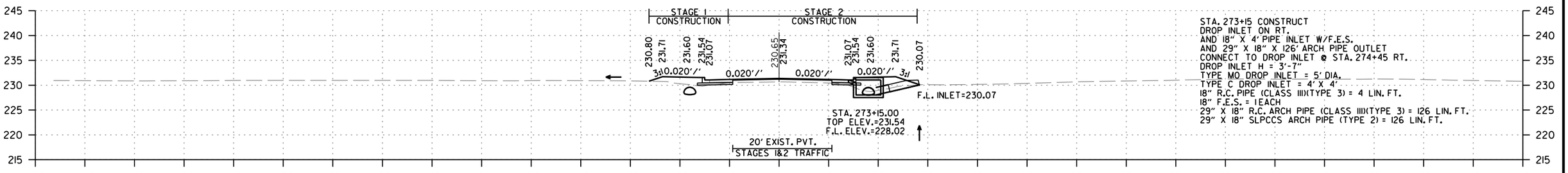
CUT AREA 2.24 SQ. FT. CUT AREA 0.26 SQ. FT. CUT VOLUME 2 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 9.99 SQ. FT. FILL AREA 19.56 SQ. FT. FILL VOLUME 11 CU. YD. FILL VOLUME 17 CU. YD.



CUT AREA 1.25 SQ. FT. CUT AREA 0.67 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 12.85 SQ. FT. FILL AREA 15.29 SQ. FT. FILL VOLUME 7 CU. YD. FILL VOLUME 10 CU. YD.



CUT AREA 0.5 SQ. FT. CUT AREA 0.24 SQ. FT. CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 15.86 SQ. FT. FILL AREA 26.07 SQ. FT. FILL VOLUME 8 CU. YD. FILL VOLUME 14 CU. YD.

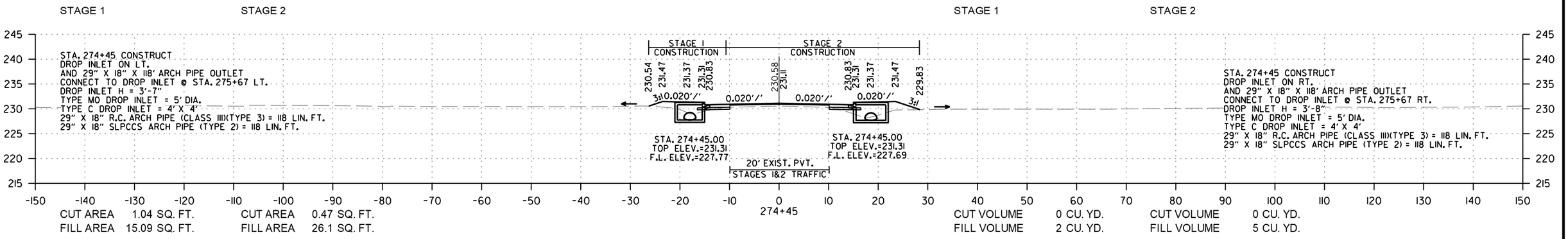


CUT AREA 0.8 SQ. FT. CUT AREA 0.48 SQ. FT. CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 11.88 SQ. FT. FILL AREA 25.43 SQ. FT. FILL VOLUME 4 CU. YD. FILL VOLUME 9 CU. YD.

HWY. 190 EAST
STA. 273+15 TO STA. 273+69

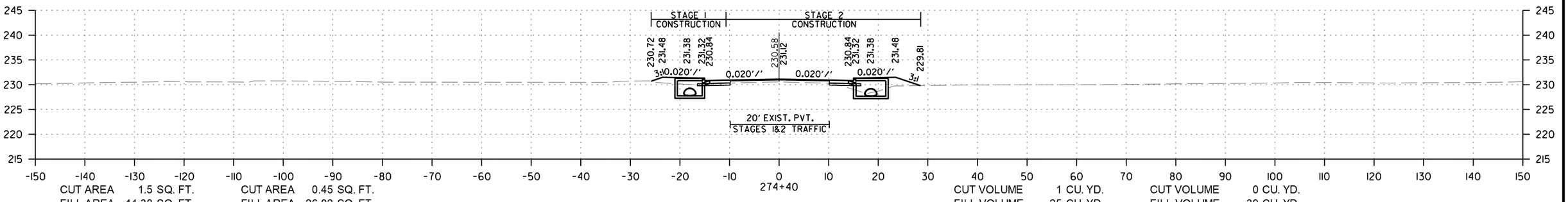
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	165	168
		CROSS SECTIONS				



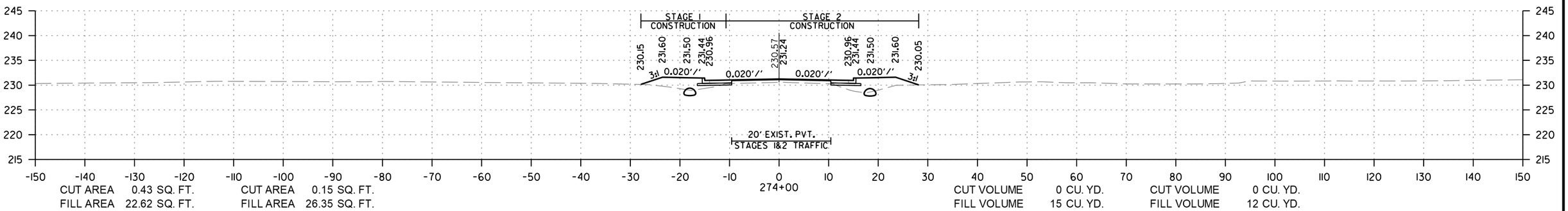
CUT AREA 1.04 SQ. FT. CUT AREA 0.47 SQ. FT.
FILL AREA 15.09 SQ. FT. FILL AREA 26.1 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 2 CU. YD. FILL VOLUME 5 CU. YD.



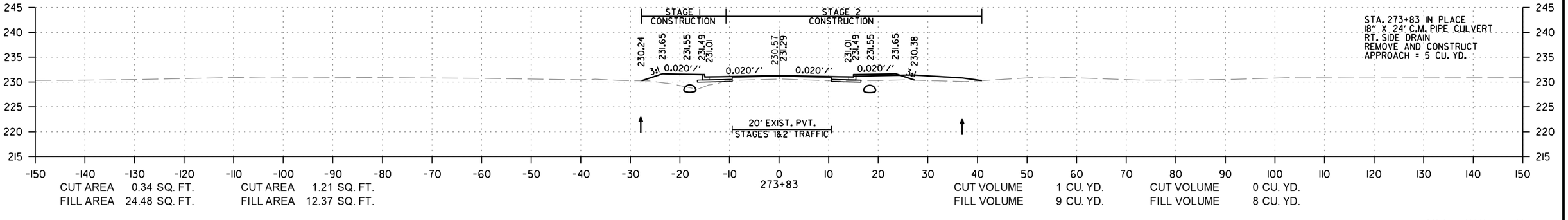
CUT AREA 1.5 SQ. FT. CUT AREA 0.45 SQ. FT.
FILL AREA 11.38 SQ. FT. FILL AREA 26.02 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 25 CU. YD. FILL VOLUME 39 CU. YD.



CUT AREA 0.43 SQ. FT. CUT AREA 0.15 SQ. FT.
FILL AREA 22.62 SQ. FT. FILL AREA 26.35 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 15 CU. YD. FILL VOLUME 12 CU. YD.



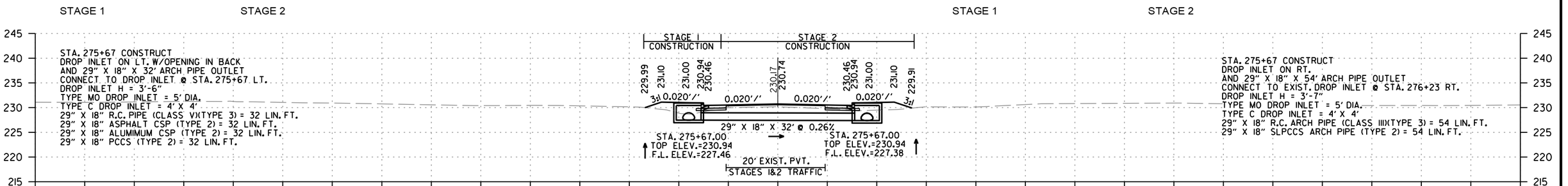
CUT AREA 0.34 SQ. FT. CUT AREA 1.21 SQ. FT.
FILL AREA 24.48 SQ. FT. FILL AREA 12.37 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 9 CU. YD. FILL VOLUME 8 CU. YD.

HWY. 190 EAST
STA. 273+83 TO STA. 274+45

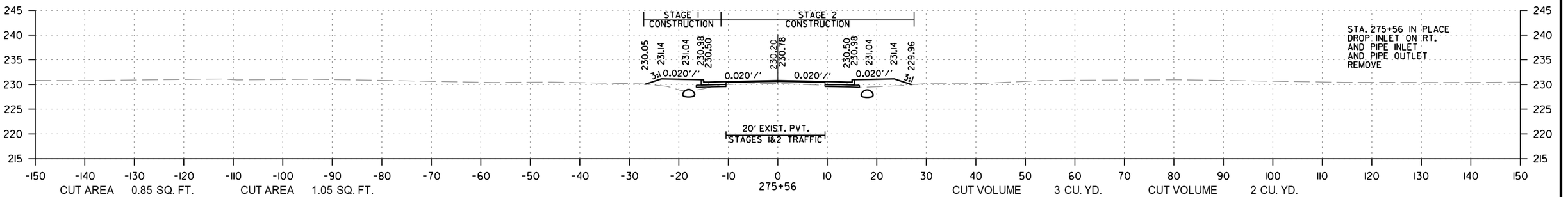
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	166	168
		CROSS SECTIONS				



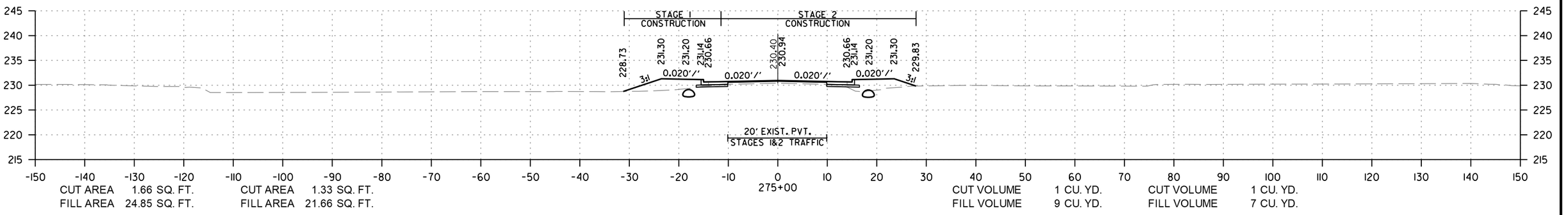
CUT AREA 0.9 SQ. FT. CUT AREA 1.01 SQ. FT.
FILL AREA 18.33 SQ. FT. FILL AREA 14.74 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 7 CU. YD. FILL VOLUME 6 CU. YD.



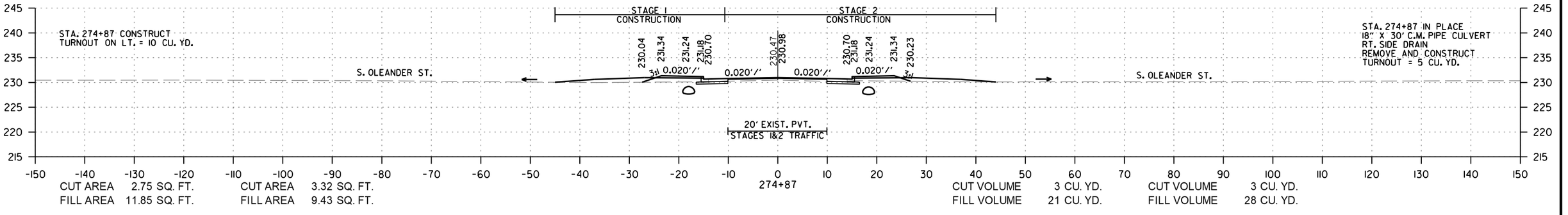
CUT AREA 0.85 SQ. FT. CUT AREA 1.05 SQ. FT.
FILL AREA 18.26 SQ. FT. FILL AREA 14.32 SQ. FT.

CUT VOLUME 3 CU. YD. CUT VOLUME 2 CU. YD.
FILL VOLUME 45 CU. YD. FILL VOLUME 37 CU. YD.



CUT AREA 1.66 SQ. FT. CUT AREA 1.33 SQ. FT.
FILL AREA 24.85 SQ. FT. FILL AREA 21.66 SQ. FT.

CUT VOLUME 1 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 9 CU. YD. FILL VOLUME 7 CU. YD.



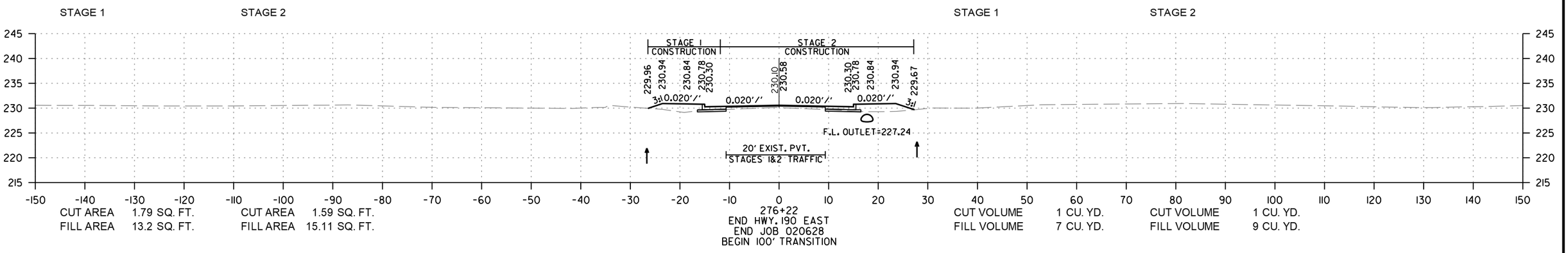
CUT AREA 2.75 SQ. FT. CUT AREA 3.32 SQ. FT.
FILL AREA 11.85 SQ. FT. FILL AREA 9.43 SQ. FT.

CUT VOLUME 3 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 21 CU. YD. FILL VOLUME 28 CU. YD.

HWY. 190 EAST
STA. 274+87 TO STA. 275+67

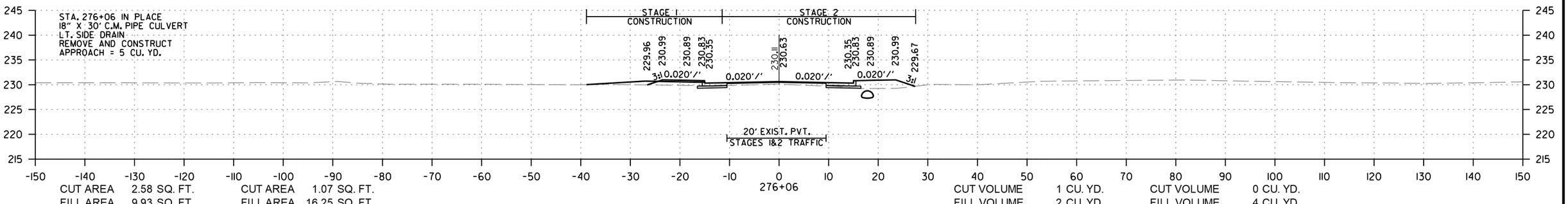
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	167	168
		CROSS SECTIONS				



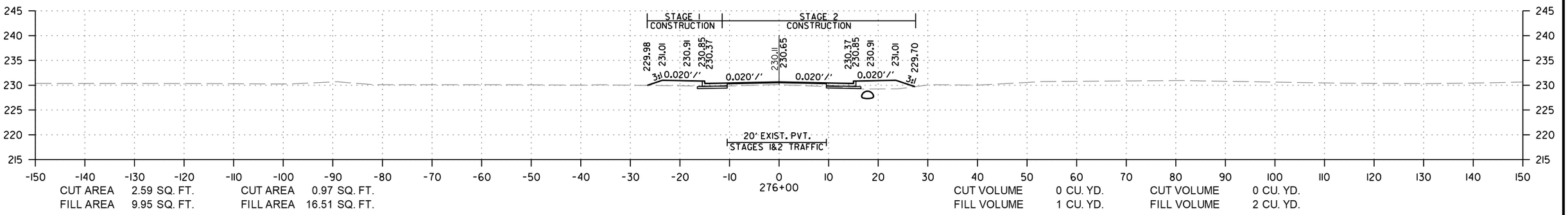
276+22
END HWY. 190 EAST
END JOB 020628
BEGIN 100' TRANSITION

CUT AREA	1.79 SQ. FT.	CUT AREA	1.59 SQ. FT.	CUT VOLUME	1 CU. YD.	CUT VOLUME	1 CU. YD.
FILL AREA	13.2 SQ. FT.	FILL AREA	15.11 SQ. FT.	FILL VOLUME	7 CU. YD.	FILL VOLUME	9 CU. YD.



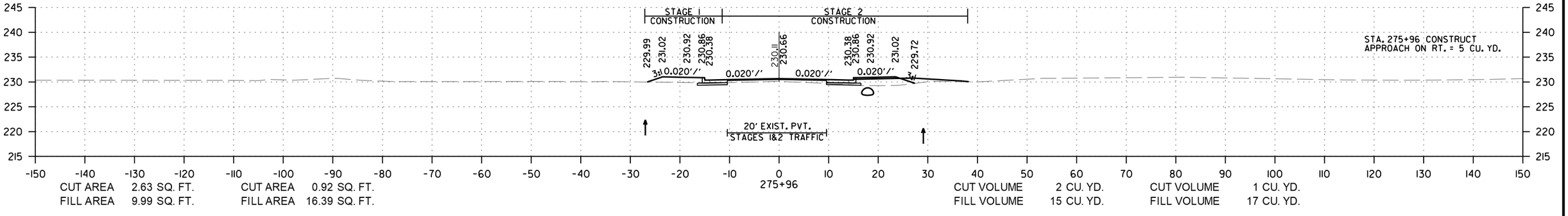
276+06

CUT AREA	2.58 SQ. FT.	CUT AREA	1.07 SQ. FT.	CUT VOLUME	1 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	9.93 SQ. FT.	FILL AREA	16.25 SQ. FT.	FILL VOLUME	2 CU. YD.	FILL VOLUME	4 CU. YD.



276+00

CUT AREA	2.59 SQ. FT.	CUT AREA	0.97 SQ. FT.	CUT VOLUME	0 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	9.95 SQ. FT.	FILL AREA	16.51 SQ. FT.	FILL VOLUME	1 CU. YD.	FILL VOLUME	2 CU. YD.



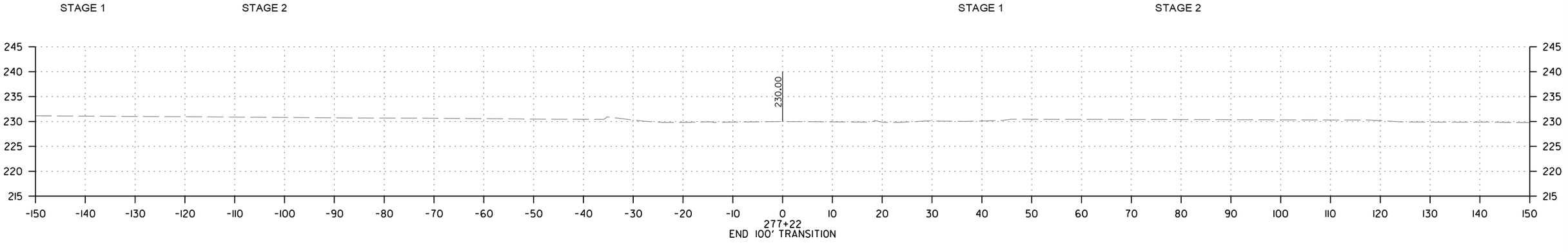
275+96

CUT AREA	2.63 SQ. FT.	CUT AREA	0.92 SQ. FT.	CUT VOLUME	2 CU. YD.	CUT VOLUME	1 CU. YD.
FILL AREA	9.99 SQ. FT.	FILL AREA	16.39 SQ. FT.	FILL VOLUME	15 CU. YD.	FILL VOLUME	17 CU. YD.

HWY. 190 EAST
STA. 275+96 TO STA. 276+22

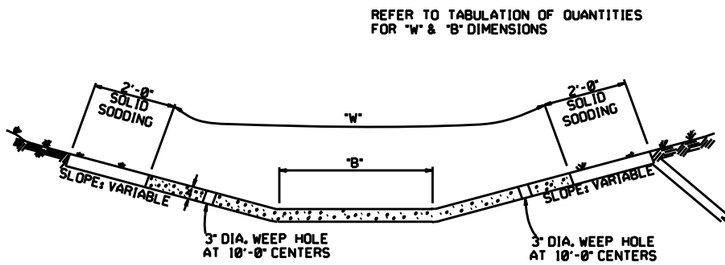
RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	020628	168	168
		CROSS SECTIONS				



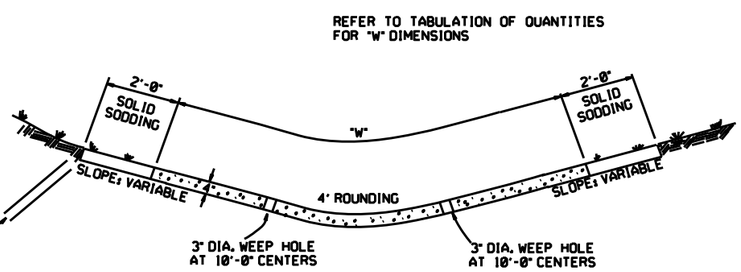
HWY. 190 EAST
STA. 277+22 TO STA. 277+22

RB43088 6/5/2025
R020628.DGN MicroStation v8.11.9.578



TYPE A

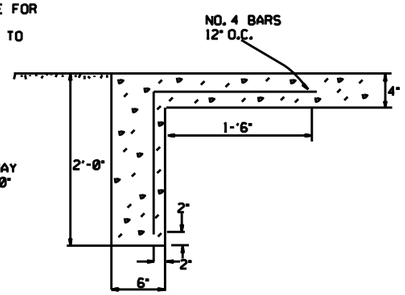
EXCAVATE TO NEAT LINES TO CONSTRUCT DITCH PAVING AND SOLID SODDING.



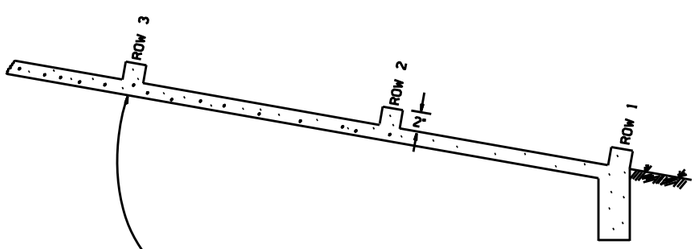
TYPE B

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

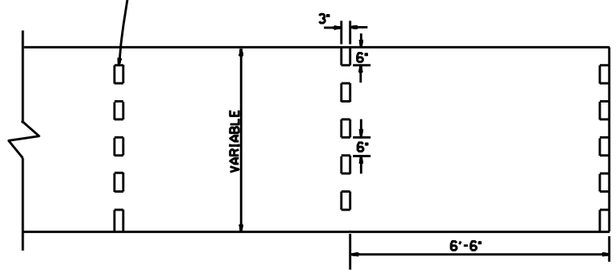


TOE WALL DETAIL FOR CONCRETE DITCH PAVING



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.

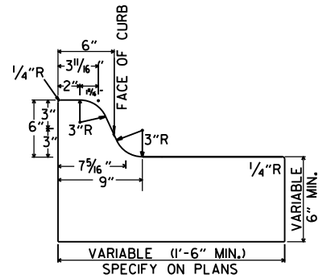
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45° INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

DATE	REVISION	DATE FILM'D
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

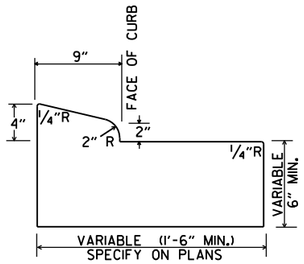
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

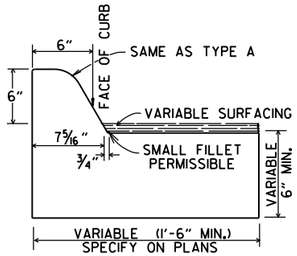
STANDARD DRAWING CDP-1



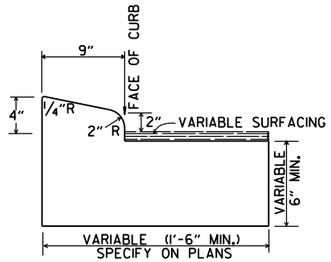
TYPE A



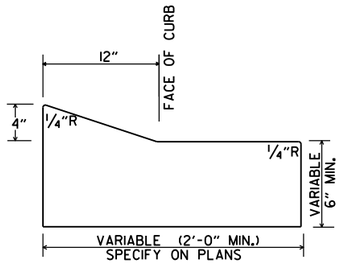
TYPE B-1



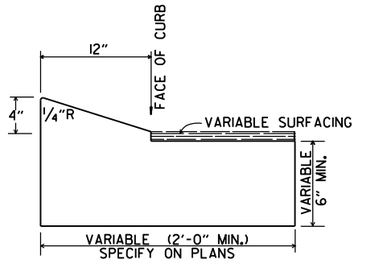
TYPE C



TYPE B-2

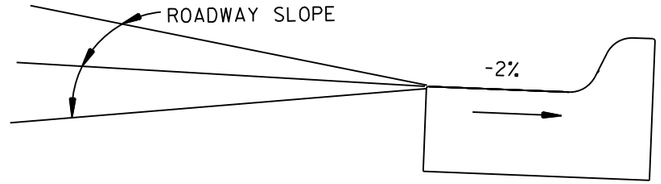


TYPE E-1



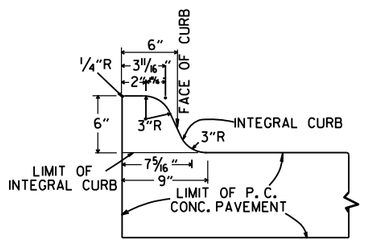
TYPE E-2

CONCRETE COMBINATION CURB AND GUTTER

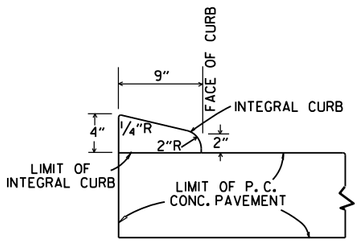


DETAIL OF GUTTER SLOPE

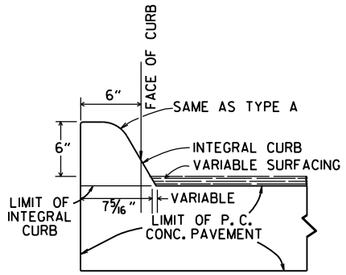
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.



TYPE A

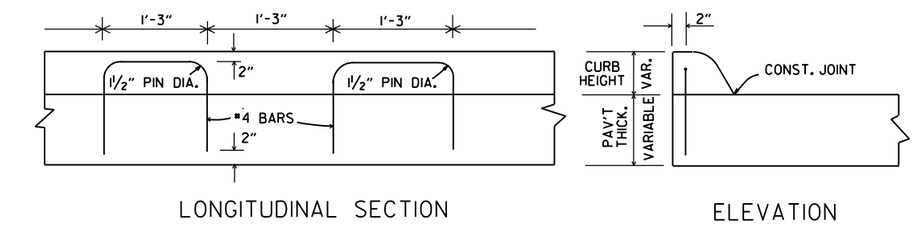


TYPE B



TYPE C

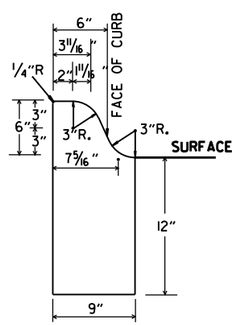
INTEGRAL CURB



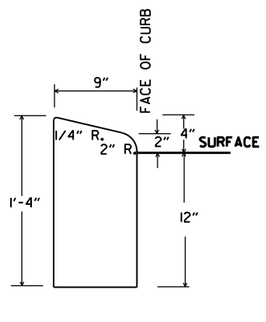
LONGITUDINAL SECTION

ELEVATION

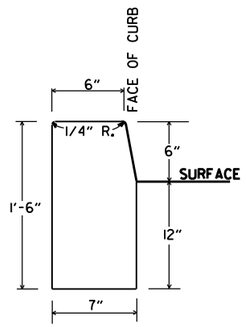
ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



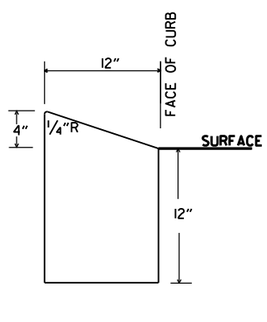
TYPE A



TYPE B

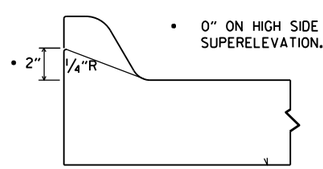


TYPE D



TYPE E

CONCRETE CURB



NOTE: USE MODIFIED CURB AS SPECIFIED ON STD. DR-1. COMPENSATION FOR MODIFIED CURB WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE TYPE OF CURB OR CURB AND GUTTER SPECIFIED.

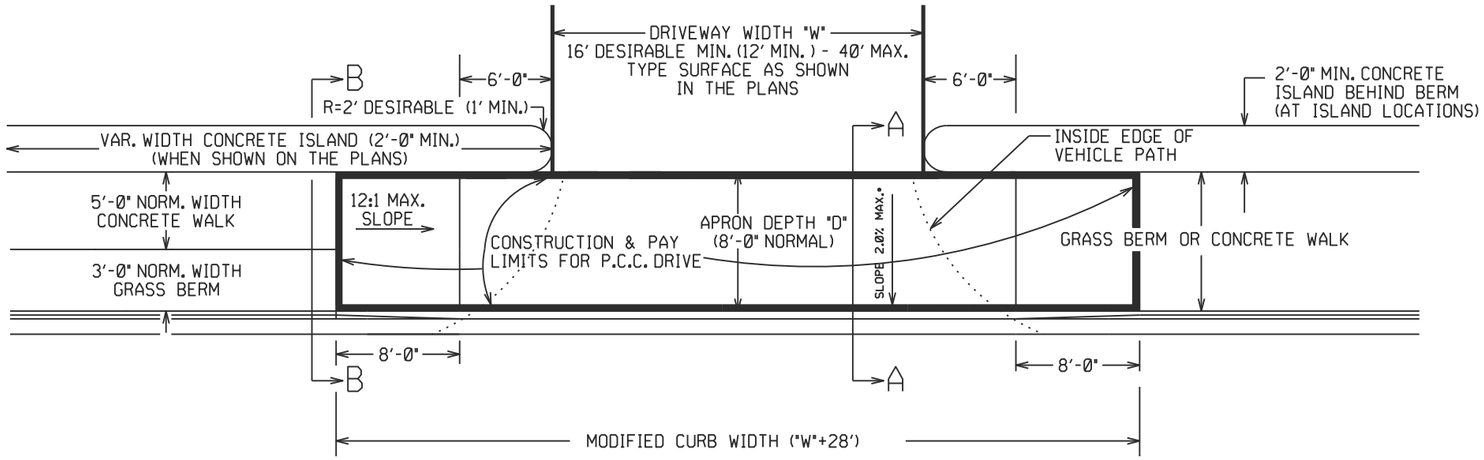
DETAILS OF MODIFIED CURB

DATE	REVISION	DATE FILMED
11-29-07	REVISED GUTTER SLOPE & MODIFIED CURB DETAILS	
11-10-05	ADDED DETAILS OF TYPE E CURBS	
11-16-01	REVISED CONCRETE CURB TYPE B	
11-18-98	REVISED MODIFIED CURB	
6-2-94	ADDED NOTE TO SPECIAL MODIFIED CURB	
8-5-93	CORRECTED GUTTER SLOPE	8-5-93
10-1-92	ADDED DETAILS OF GUTTER SLOPE	10-1-92
5-24-90	ADDED DETAILS OF MODIFIED CURB	5-24-90
11-30-89	VARIBLE DEPTH TYPE A & B I	11-30-89
7-15-88	REVISED MODIFIED CURB	630-7-15-88
11-1-73	REVISED MODIFIED CURB	500-11-1-73
10-2-72	REVISED AND REDRAWN	512-10-2-72

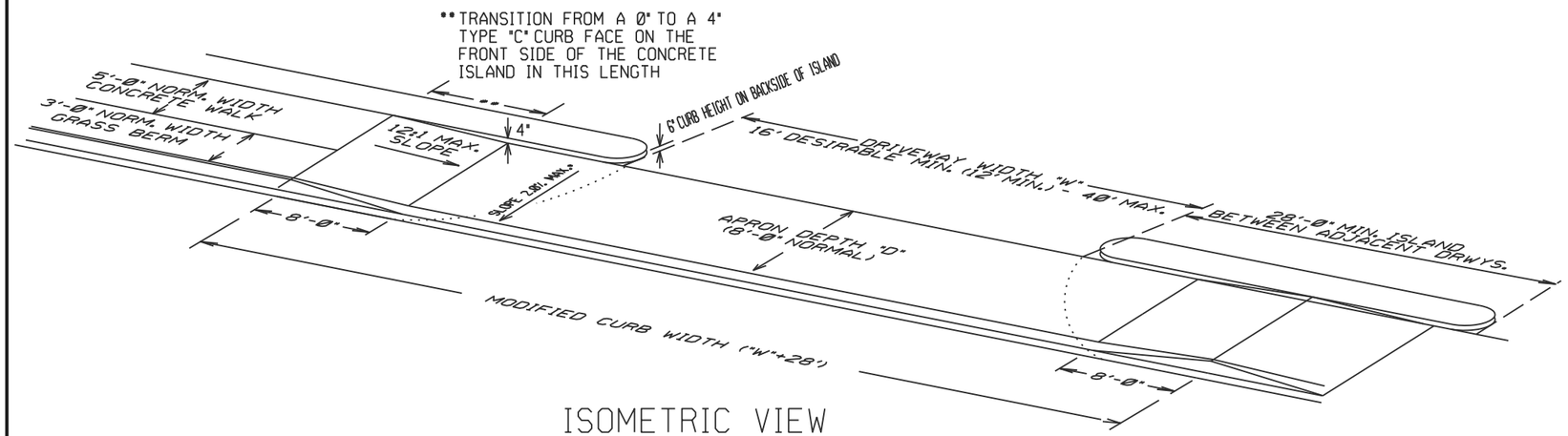
ARKANSAS STATE HIGHWAY COMMISSION

CURBING DETAILS

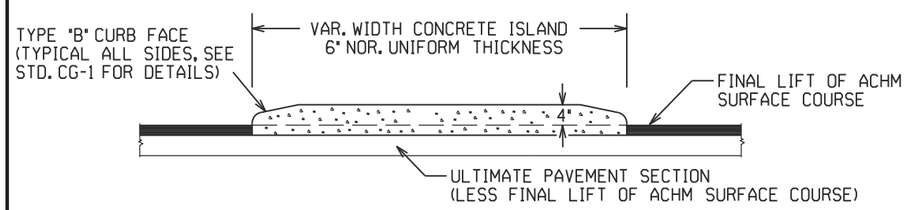
STANDARD DRAWING CG-1



PLAN VIEW



ISOMETRIC VIEW

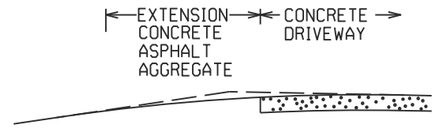


CURBED ISLANDS FOR CHANNELIZATION

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

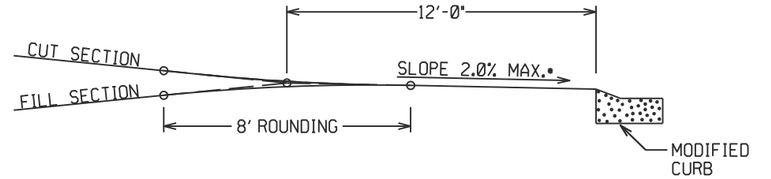
2: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
4" ACHM BINDER COURSE (1") OR
4" ACHM BASE COURSE (1-1/2")

3: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
7" AGGREGATE BASE COURSE

4: AGGREGATE - 6" AGGREGATE BASE COURSE

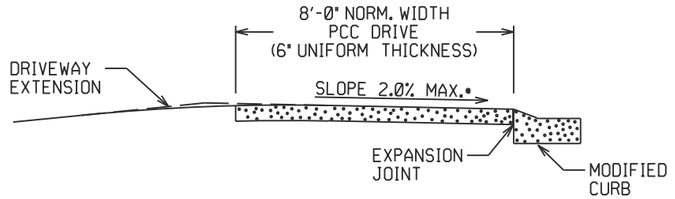
THE TYPE OF EXTENSION SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, SUBSTITUTE A LOWER NUMBERED TYPE OF EXTENSION IN LIEU OF THE TYPE SPECIFIED IN THE PLANS, BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.

DRIVEWAY EXTENSION DETAILS

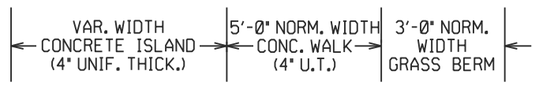


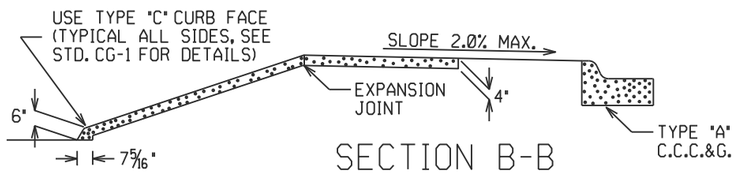
DRIVEWAY VERTICAL ALIGNMENT DETAILS

• 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

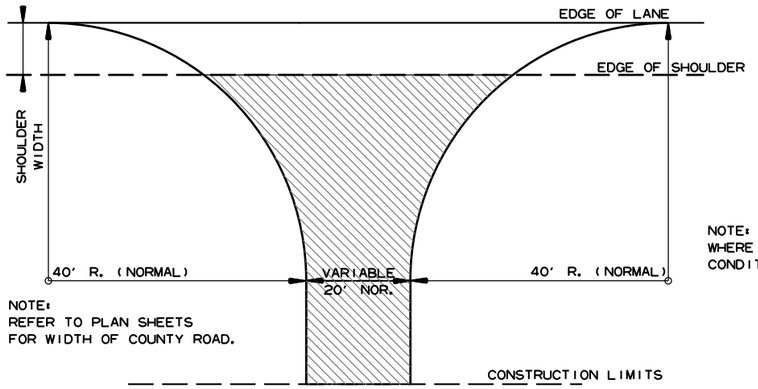
DATE REV	DESCRIPTION
05-22-25	REVISED ISLAND DETAILS & ADDED DESIRABLE MIN. DRIVEWAY WIDTH
05-19-22	REVISED ISLAND NOTES
11-07-19	REVISED WALK DETAILS
02-27-14	REVISED PLAN & ISOMETRIC VIEW
11-29-07	ADDED CHANNELIZATION ISLAND & REVISED DRIVEWAY SLOPE NOTE & VERTICAL ALIGNMENT DETAIL

ARDOT ARKANSAS DEPARTMENT OF TRANSPORTATION

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DRIVEWAYS & ISLANDS

DATE EFFECTIVE	STANDARD DRAWING	DR-1
05-22-2025		

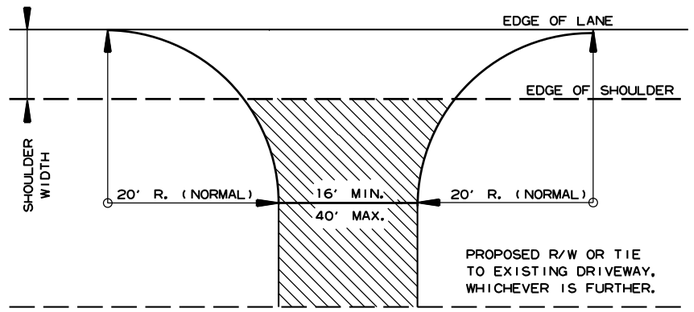


NOTE:
REFER TO PLAN SHEETS
FOR WIDTH OF COUNTY ROAD.

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.

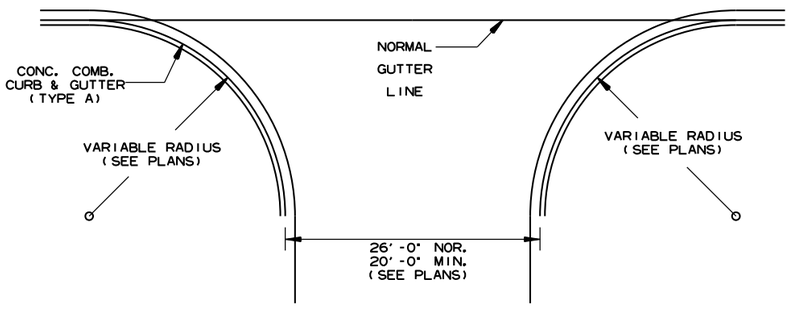
DETAIL FOR COUNTY ROAD TURNOUTS OPEN SHOULDER SECTION



NOTE: TURNOUTS AND PRIVATE DRIVES SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

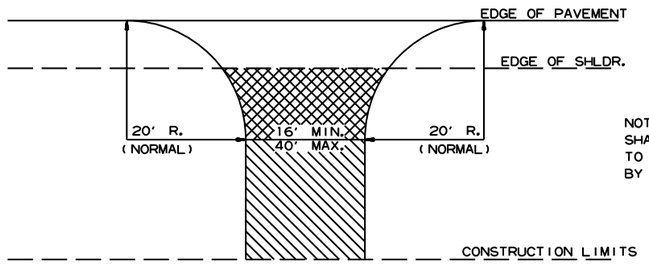
ACHM SURFACE COURSE (1/2")
(220 LBS. PER SQ. YD.) AND
AGGREGATE BASE COURSE (CLASS 7)
7" COMP. DEPTH IF ASPHALT OR
GRAVEL DRIVE EXISTING; OR 6"
CONCRETE IF CONCRETE DRIVE
EXISTING.

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

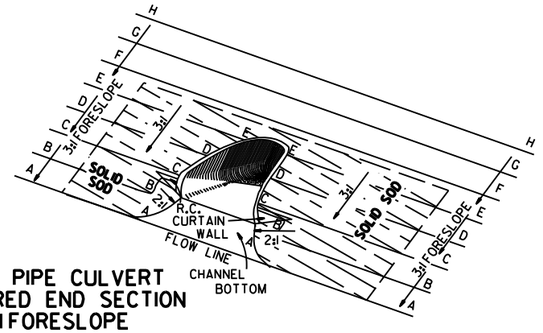
DETAIL FOR DRIVEWAY TURNOUTS (COLLECTORS)

DATE REV	DATE FILMED	DESCRIPTION
5-19-22		ISSUED

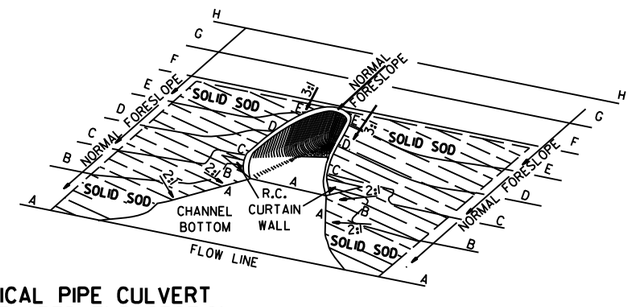
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DRIVEWAYS & STREET TURNOUTS

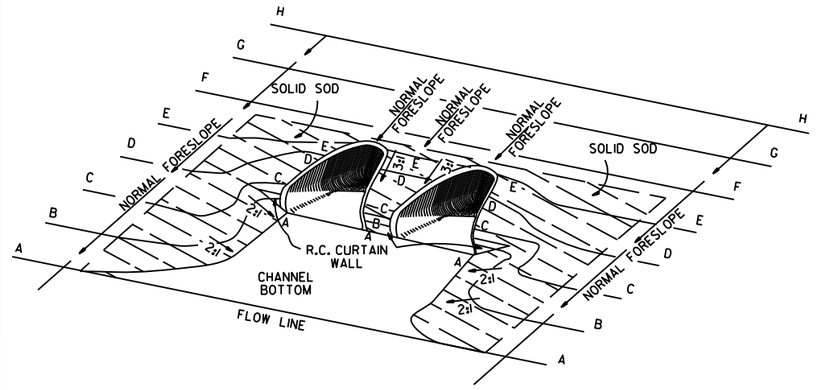
STANDARD DRAWING DR-2



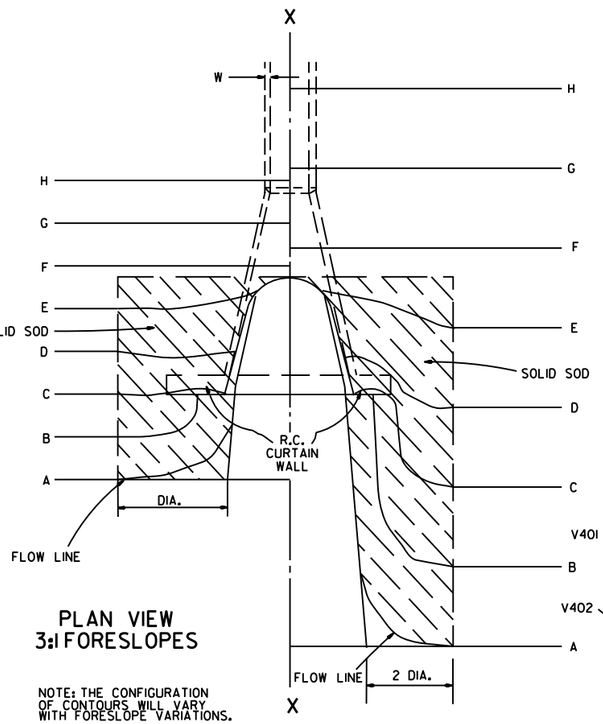
TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& 3:1 FORESLOPE



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

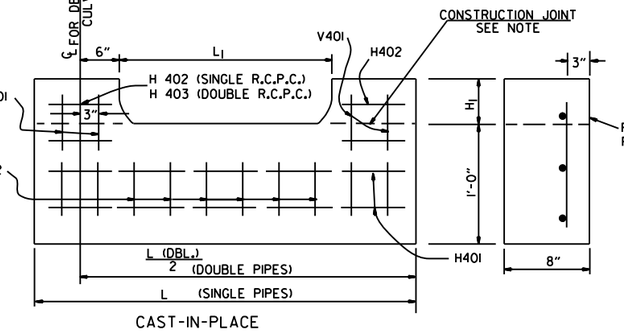
NOTE: THE CONFIGURATION OF CONTOURS WILL VARY WITH FORESLOPE VARIATIONS.

PLAN VIEW
FLATTENED FORESLOPES

R.C. CURTAIN WALL
DIMENSIONS & QUANTITIES

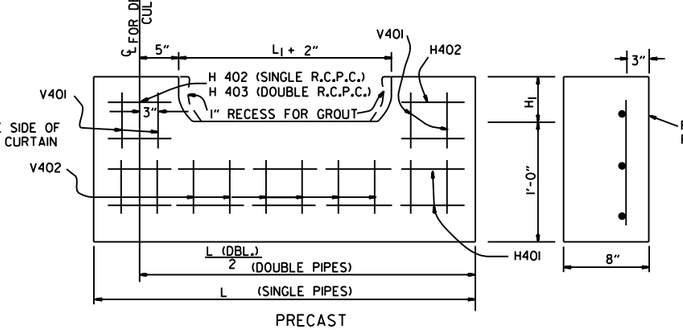
PIPE DIA.	H_1	L_1	L	L (DBL.) / 2	SINGLE R.C.P.C. CONC.	SINGLE R.C.P.C. REINF. STEEL	DOUBLE R.C.P.C. CONC.	DOUBLE R.C.P.C. REINF. STEEL
					CU. YDS.	LBS.	CU. YDS.	LBS.
18"	1'-11½"	3'-5"	8'-0"	6'-3"	0.31	27.7	0.45	39.5
24"	1'-0½"	4'-6"	9'-6"	7'-6"	0.37	33.4	0.53	48.0
30"	1'-3½"	5'-7"	11'-0"	9'-0"	0.45	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.



CAST-IN-PLACE

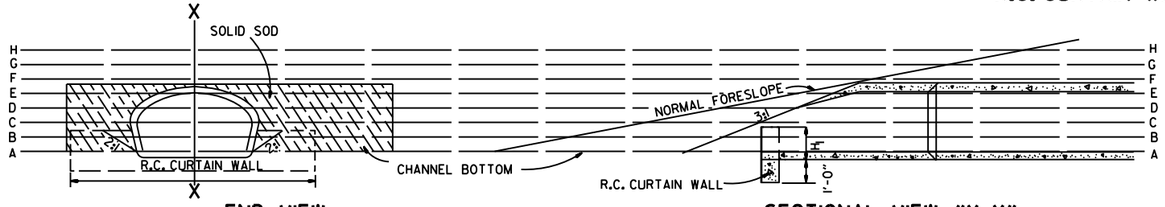
NOTE: THE PORTION OF THE R.C. CURTAIN WALL BENEATH THE FLARED END SECTION (LOWER 1'-0") SHALL BE PLACED MONOLITHICALLY. THE FLARED END SECTION SHALL THEN BE SET IN PLACE & THE REMAINING PORTIONS OF THE R.C. CURTAIN WALL PLACED.



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



END VIEW

SECTIONAL VIEW "X-X"

REINFORCING STEEL SCHEDULE

PIPE DIA.	SINGLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	V401 L	V401 NO.	V402 L	V402 NO.	DOUBLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	H403 L	H403 NO.	V401 L	V401 NO.	V402 L	V402 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.

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 x 3 W10 x W10 MAY BE USED IN LIEU OF REINFORCING BARS.

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

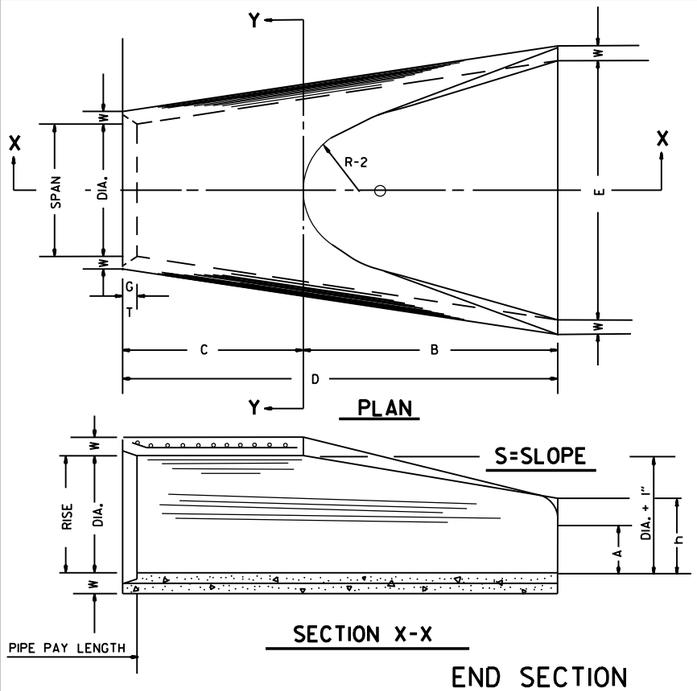
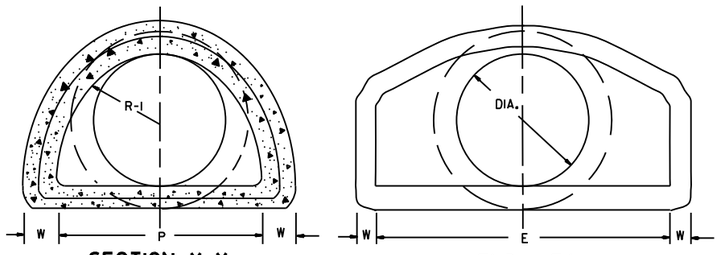


TABLE OF DIMENSIONS

DIA.	WALL	A	B	C	D	E	S	DIA. + 1"	P	R-1	R-2	G-T	WT.	h
18"	2½"	9"	2'-3"	3'-10"	6'-1"	3'-0"	3:1	19"	29"	15½"	12"	2"	1000	1'-0½"
24"	3"	9½"	3'-7½"	2'-6"	6'-1½"	4'-0"	3:1	25"	33 3/16"	16 15/16"	14"	2½"	1600	1'-1½"
30"	3½"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	3:1	31"	37"	18½"	15"	3¼"	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 13/16"	24 5/16"	20"	3½"	4100	1'-8"
42"	4½"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53⅞"	27½"	22"	3½"	5380	2'-2½"
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	3:1	49"	56½"	28½"	22"	3½"	6550	2'-6"
54"	5½"	2'-4"	6'-6"	1'-10"	8'-4"	7'-6"	3:1	55"	65½"	33⅛"	24"	4"	8750	2'-10½"
60"	6"	2'-10"	6'-6"	1'-10"	8'-4"	8'-0"	3:1	61"	72½"	36 11/16"	24"	4"	9270	3'-5"
72"	7"	3'-10"	6'-6"	1'-10"	8'-4"	9'-0"	3:1	73"	77 13/16"	38 15/16"	24"	5"	13250	4'-6"

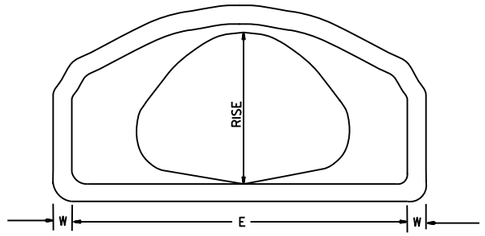


NOTE: TONGUE END ON UPSTREAM SECTION
GROOVE END ON DOWNSTREAM SECTION

ARCH PIPE

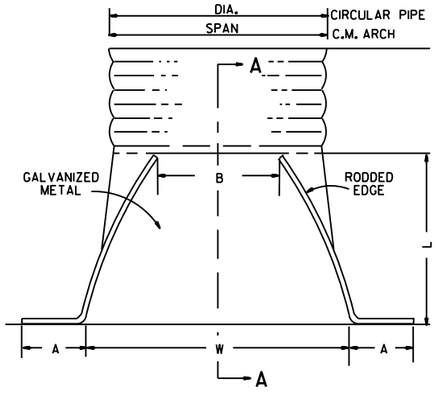
EQUIV. DIA.	• SPAN AASHTO M 206	• SPAN AHD NOMINAL	• RISE AASHTO M 206	• RISE AHD NOMINAL	W	A	B	C	D	E	P	R2	G-T	S
	INCHES													
15	18	18	11	11	2"	4"	2'-0"	4'-0"	6'-0"	3'-0"	29"	12"	1½"	2½:1
18	22	22	13½	14	2½"	5"	2'-0"	4'-1"	6'-1"	3'-6"	32⅛"	13"	2½"	2½:1
21	26	26	15½	16	2¾"	7"	2'-3"	3'-10"	6'-1"	4'-0"	34⅛"	14"	2½"	2½:1
24	28½	29	18	18	3"	9"	2'-3"	3'-10"	6'-1"	5'-0"	36 11/16"	15"	2½"	2½:1
30	36¼	36	22½	23	3½"	10"	3'-1"	3'-0½"	6'-1½"	6'-0"	47 11/16"	20"	3"	2½:1
36	43¾	44	26⅜	27	4"	10½"	4'-0"	2'-11½"	6'-1½"	6'-6"	54 5/16"	22"	3½"	2½:1
42	51⅛	51	31 5/16	31	4½"	11½"	4'-7"	1-10¼"	6'-5¼"	7'-2"	59½"	23"	3¾"	2½:1
48	58½	59	36	36	5"	1'-3"	5'-3"	2'-10¾"	8'-1¾"	7'-10"	70 5/16"	24"	4¼"	2½:1
54	65	65	40	40	5½"	1'-7"	5'-3"	2'-11"	8'-2"	8'-6"	72 1/16"	24"	4¾"	2¼:1
60	73	73	45	45	6"	1'-10"	5'-6"	2'-8"	8'-2"	9'-0"	77 1/16"	24"	5"	2¼:1

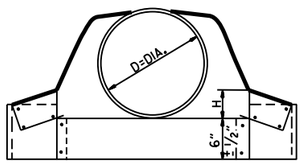
• THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PER CENT FROM THE VALUES SPECIFIED BY AASHTO M 206.



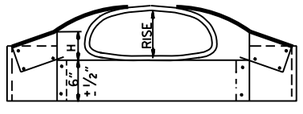
END VIEW
CONCRETE ARCH PIPE

END SECTION FOR REINFORCED CONCRETE PIPE CULVERTS





CIRCULAR PIPE



C.M. ARCH PIPE

CIRCULAR PIPE

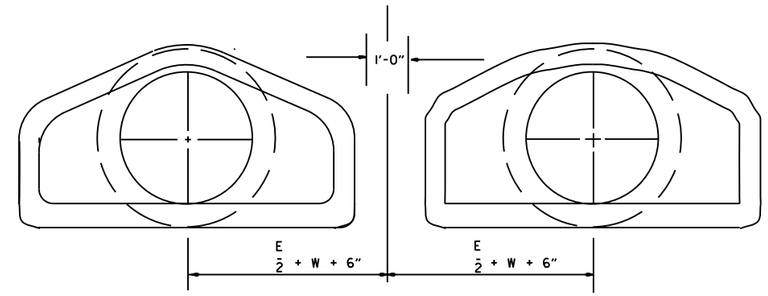
D. DIA.	GAUGE	A 1" ±	B. MAX.	H 1" ±	L 1½" ±	W 2" ±	S
		INCHES					
12	16	6	6	6	21	24	2½:1
15	16	7	8	6	26	30	2½:1
18	16	8	10	6	31	36	2½:1
21	16	9	12	6	36	42	2½:1
24	16	10	13	6	41	48	2½:1
30	14	12	16	8	51	60	2½:1
36	14	14	19	9	60	72	2½:1
42	12	16	22	11	69	84	2½:1
48	12	18	27	12	78	90	2½:1
54	12	18	30	12	84	102	2:1
60	12	18	33	12	87	114	1¾:1
66	12	18	36	12	87	120	1½:1
72	12	18	39	12	87	126	1 1/3:1

C.M. ARCH PIPE

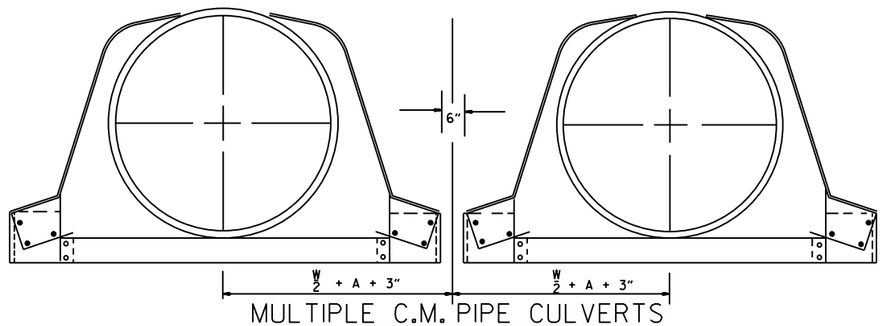
EQUIV. DIA.	SPAN	RISE	A 1" ±	B MAX.	H 1" ±	L 1½" ±	W 2" ±	S	GAUGE
	INCHES								
15"	17	13	7	9	6	19	30	2½:1	16
18"	21	15	7	10	6	23	36	2½:1	16
21"	24	18	8	12	6	28	42	2½:1	16
24"	28	20	9	14	6	32	48	2½:1	16
30"	35	24	10	16	6	39	60	2½:1	14
36"	42	29	12	18	8	46	75	2½:1	14
42"	49	33	13	21	9	53	85	2½:1	12
48"	57	38	18	26	12	63	90	2½:1	12
54"	64	43	18	30	12	70	102	2¼:1	12
60"	71	47	18	33	12	77	114	2¼:1	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

4'-0" LENGTH DROP INLET

PIPE SIZE	MIN. WIDTH	HEIGHT 5'-0" CLASS A CONC. CU. YDS.	HEIGHT 5'-0" REINF. STEEL POUNDS	PLUS OR MINUS PER LIN. FT. OF HEIGHT CLASS A CONC. CU. YDS.	PLUS OR MINUS PER LIN. FT. OF HEIGHT REINF. STEEL POUNDS
18"	2'-6"	1.77	156	0.28	22
24"	2'-6"	1.79	156	0.28	22
30"	3'-2"	2.39	205	0.30	26
36"	3'-8"	2.63	236	0.32	28
42"	4'-4"	2.95	250	0.34	30
48"	4'-10"	3.21	265	0.36	32

NOTE: QUANTITIES ARE APPROXIMATE AND ARE SHOWN FOR BIDDER INFORMATION ONLY.

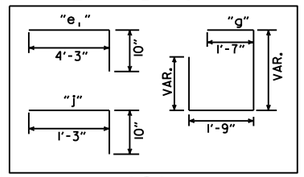
DROP INLET EXTENSION

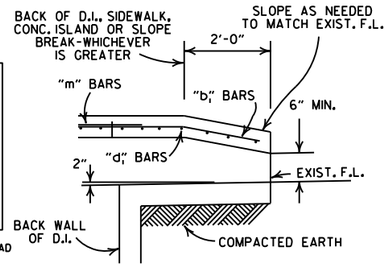
4'-0" CLASS A CONC. CU. YDS.	4'-0" REINF. STEEL POUNDS	8'-0" CLASS A CONC. CU. YDS.	8'-0" REINF. STEEL POUNDS
0.58	38	0.87	72
DEDUCT FROM QUANTITY COMPUTED FOR EACH EXTENSION ADDED.			
0.04	3		

DEDUCT FROM QUANTITY COMPUTED FOR EACH PIPE ENTERING INLET

INSIDE DIA. PIPE	CLASS A CONC.	REINF. STEEL
INCHES	CU. YDS.	POUNDS
18	0.05	2
24	0.09	3
30	0.13	4
42	0.24	8

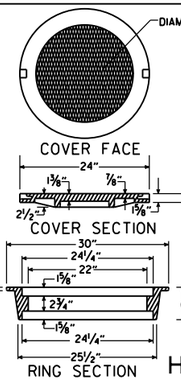
BAR DIAMETER





BACK OPENING

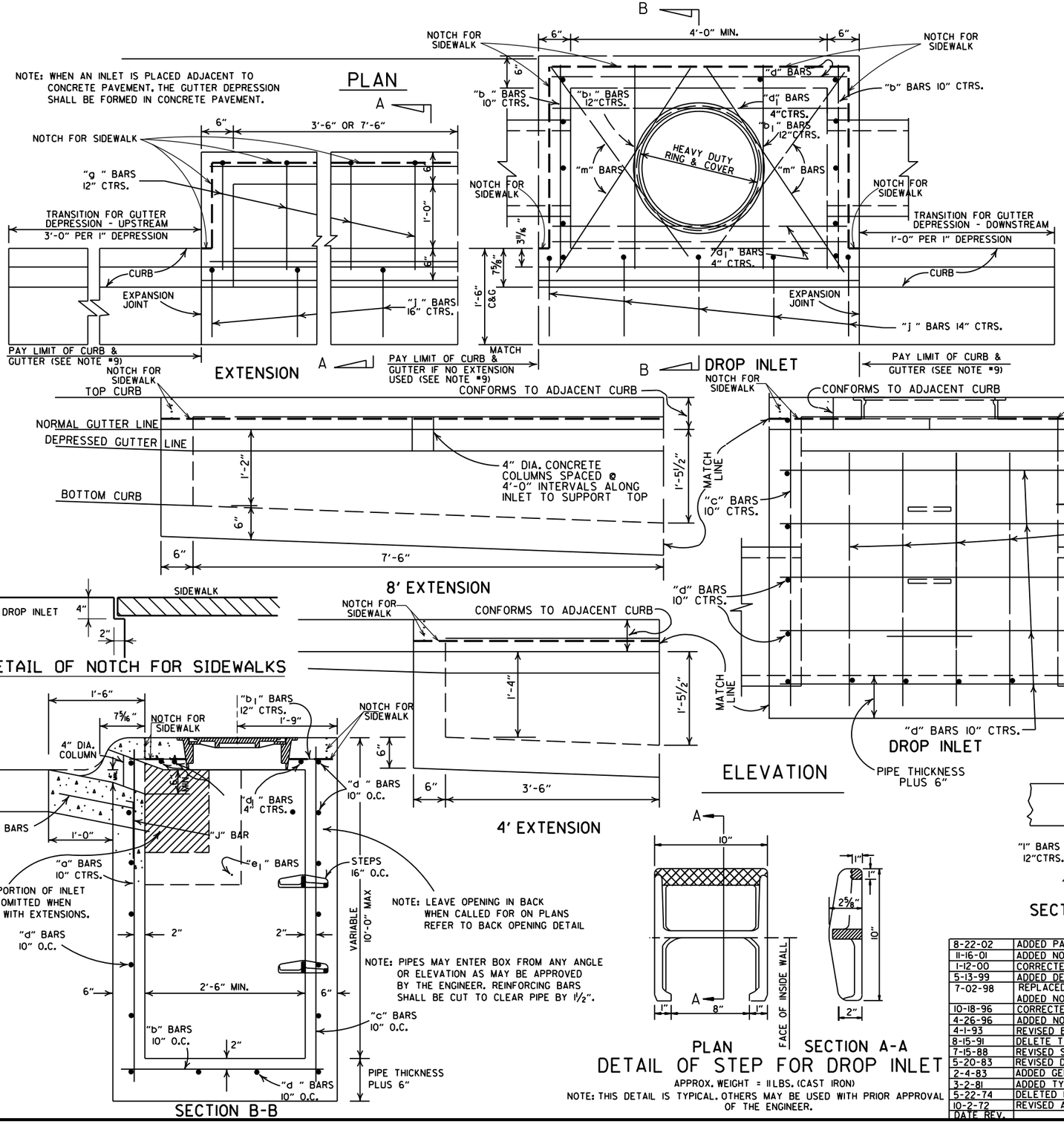
WHEN OPENING IN BACK IS CALLED FOR ON PLANS EXTEND OPENING AS SHOWN IN DETAIL. PAYMENT TO BE INCLUDED IN PRICE BID FOR DROP INLET (TYPE C).



APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

GENERAL NOTES:
1. ALL EXPOSED CORNERS TO HAVE ¾" CHAMFER.
2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OF AS APPROVED BY THE ENGINEER.
3. ALL REINF. BARS SHALL BE #4 AND HAVE 1½" COVER.
4. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
5. THIS DROP INLET MAY BE CONSTRUCTED ON NEW OR EXISTING R.C. BOX CULVERT AS SHOWN ON F.P.C.-9.
6. WHEN PLANS CALL FOR DROP INLET OVER 10'-0" HIGH, FLOOR AND WALLS SHALL BE CONSTRUCTED AS SHOWN FOR TYPE "RM" DROP INLET (FPC-9D).
7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
8. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
9. PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
10. 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.
11. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
12. 4"×2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
13. 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.



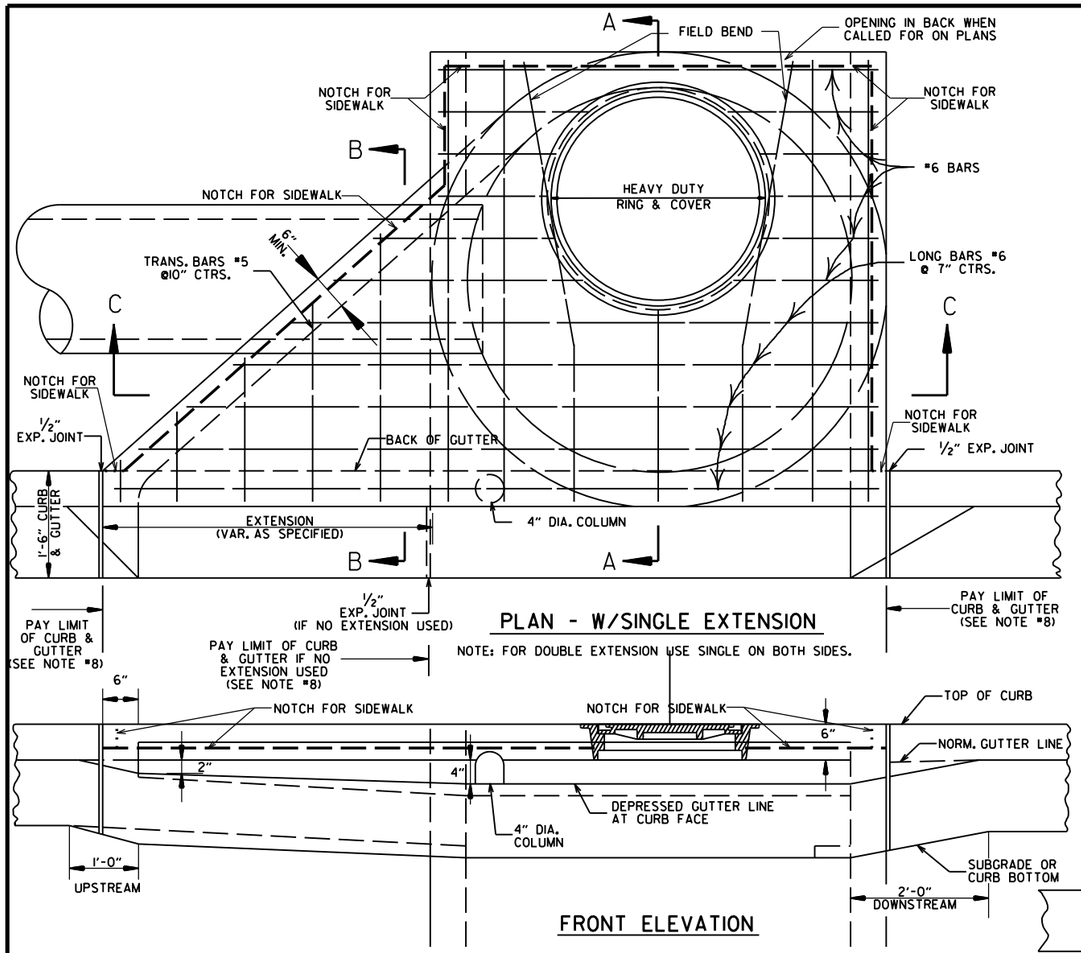
DATE REV.	REVISION	DATE FILMED
8-22-02	ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01	ADDED NOTE 13; REVISED SECTION B-B	
1-12-00	CORRECTED DIMENSION ON SECTION B-B & REVISED RING & COVER	
5-13-99	ADDED DETAIL OF NOTCH FOR SIDEWALKS	
7-02-98	REPLACED RING & COVER W/HEAVY DUTY RING & COVER ADDED NOTES 9,10,&11	
10-18-96	CORRECTED SPELLING	
4-26-96	ADDED NOTE 8 & REVISED (4')(8') EXTENSION TITLES	10-18-96
4-1-93	REVISED BACK OPENING & NOTE	
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	

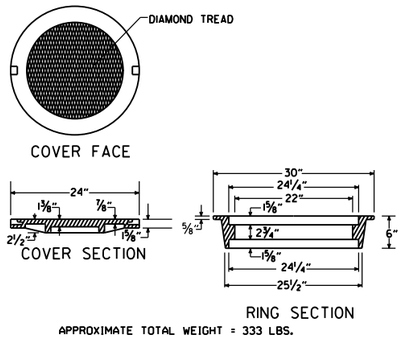
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS

(TYPE C)

STANDARD DRAWING FPC-9E

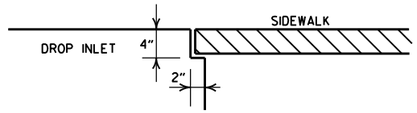




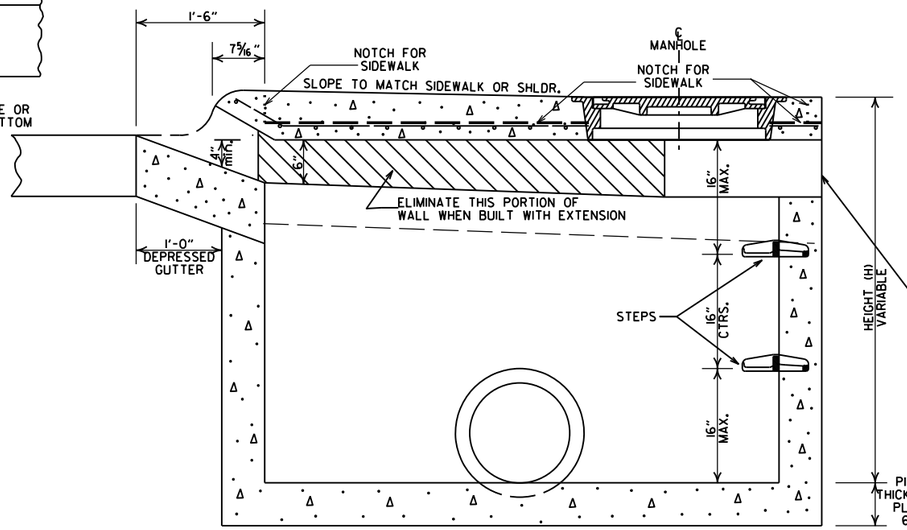
APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

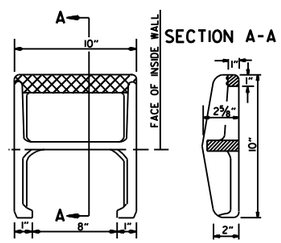
1. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.



DETAIL OF NOTCH FOR SIDEWALKS



SECTION A-A



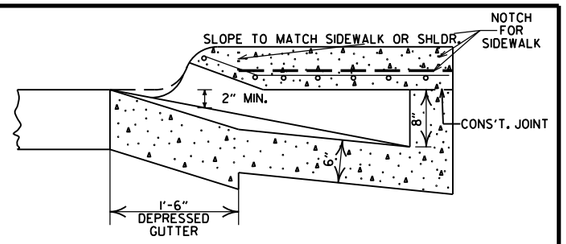
SECTION A-A

APPROX. WEIGHT = 11LBS. (CAST IRON)

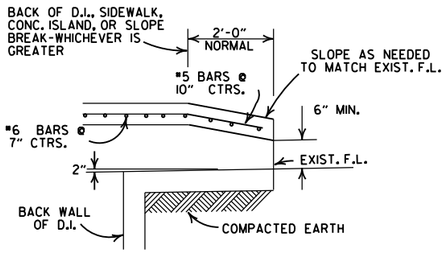
PLAN

NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

DETAIL OF STEP FOR DROP INLET



SECTION B-B



BACK OPENING

WHEN OPENING IN BACK IS CALLED FOR ON PLANS EXTEND OPENING AS SHOWN IN DETAIL. PAYMENT TO BE INCLUDED IN PRICE BID FOR DROP INLET (TYPE MO).

GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE ¾" CHAMFER.
2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OR AS DIRECTED BY THE ENGINEER.
3. ALL REINFORCING BARS SHALL BE GRADE 60 AND HAVE MIN. 1½" COVER.
4. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
5. 4" DIA. COLUMNS SPACED AT MAX. 4'-0" INTERVALS SHALL BE INSTALLED ALONG INLET AND EXTENSION TO SUPPORT TOP.
6. BASE AND INLET WALLS SHALL BE CAST MONOLITHICALLY.
7. THE THROAT SHALL BE CAST INTEGRALLY WITH THE GUTTER.
8. PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
9. PIPES MAY ENTER DROP INLET FROM ANY ANGLE OR ELEVATION AS MAY BE APPROVED BY THE ENGINEER.
10. APPROPRIATE SIZE TYPE C DROP INLETS MAY BE SUBSTITUTED FOR TYPE MO DROP INLETS AS APPROVED BY THE ENGINEER. PAYMENT TO BE AS DROP INLET (TYPE MO).
11. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
12. 4"x2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
13. 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.

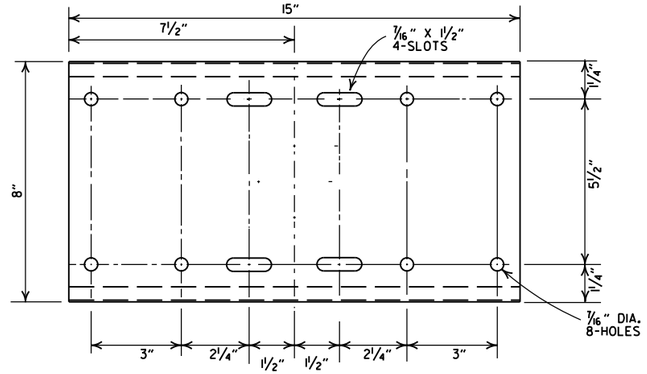
DIA. OF D.I.	DIA. OF OUTLET PIPE	MINIMUM WALL THICKNESS	
		CAST IN PLACE	PRECAST
4' I.D.	12" THRU 27"	6"	5"
5' I.D.	30" THRU 42"	8"	6"
6' I.D.	48" THRU 54"	8"	7"

DATE	REVISIONS	DATE FILMED
8-22-02	ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01	ADDED NOTE 13	
1-12-00	REVISED HEAVY DUTY RING & COVER	
5-13-99	ADDED NOTCH DETAIL FOR SIDEWALKS	
7-02-98	REP. NOTE 8, REM. PLAN DET., REV. PICTURE FOR NEW RING & COVER, ADDED HEAVY DUTY RING & COVER AND DETAIL OF STEP FOR DROP INLET	
4-26-96	ADDED NOTE 11, ADJ. OPENING DIMENSION	
10-12-95	CORRECTED #6 BAR SPACING	
7-20-95	CORRECTED DIAMETER OF D.I. IN BOX	
2-2-95	TYPE C TO MO (OPEN, BACK DETAIL)	
11-3-94	REVISED GENERAL NOTES	11-3-94
4-1-93	REV. BACK OPEN. DETAIL & NOTE	4-1-93
8-16-91	REVISED NOTES 11,12 & ADDED BK.OPEN DETAIL	8-15-91
11-30-89	ADDED NOTE NO. 12	11-30-89
5-23-89	ADDED NOTE & MINIMUM WALL THICKNESS	513-5-23-89
7-15-88	ADDED EXTEND NOTE TO SECTION A-A	629-7-15-88
1-14-87	MODIFIED WALL THICKNESS	783-1-14-87
6-12-87	ISSUED	4-6-12-87

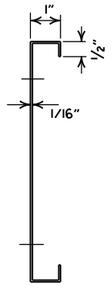
ARKANSAS STATE HIGHWAY COMMISSION

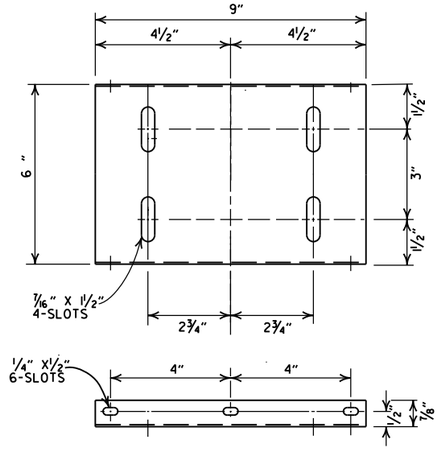
DETAILS OF DROP INLET (TYPE MO)

STANDARD DRAWING FPC-9M

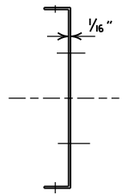


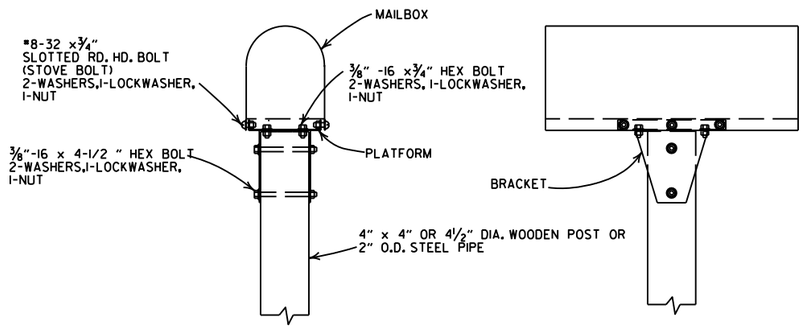
SHELF



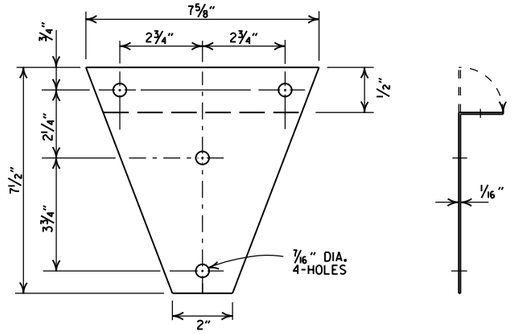


PLATFORM





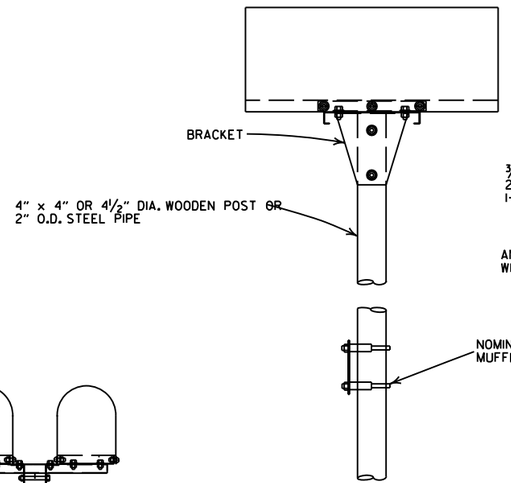
SINGLE INSTALLATION



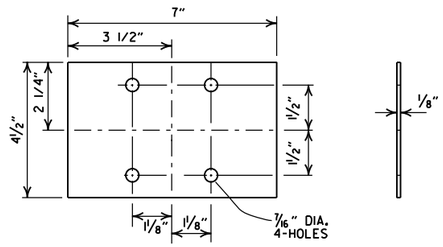
BRACKET

GENERAL NOTES

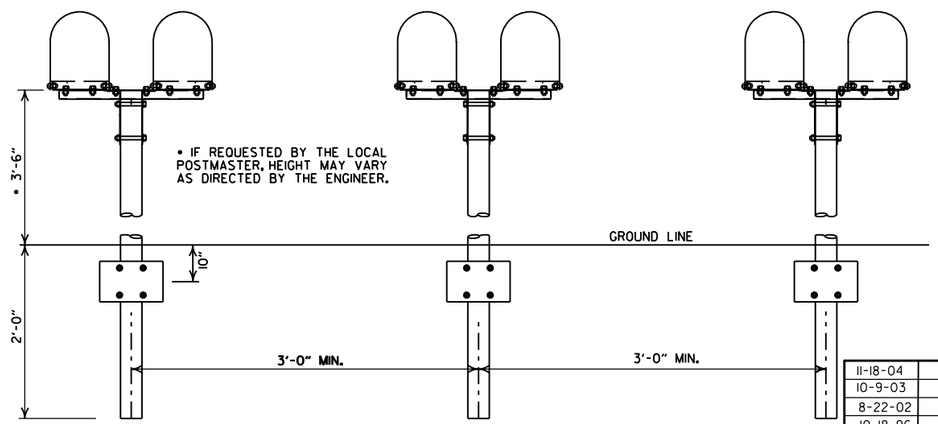
1. MAILBOX POSTS MAY BE WOOD OR METAL. WOOD POSTS SHALL BE PRESSURE TREATED FOR GROUND CONTACT IN ACCORDANCE WITH SECTION 637.02 OF THE STANDARD SPECIFICATIONS.
2. ANTI-TWIST PLATES SHALL BE USED ONLY ON METAL POSTS.
3. MAILBOX SHELF, BRACKET & PLATFORM SHALL BE GALVANIZED OR PAINTED STEEL, HOWEVER TREATED 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 X¾" 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.



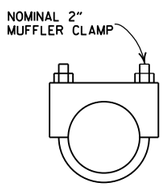
DOUBLE INSTALLATION



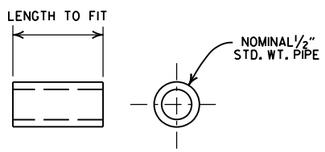
ANTI-TWIST PLATE



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

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	31⅜	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.

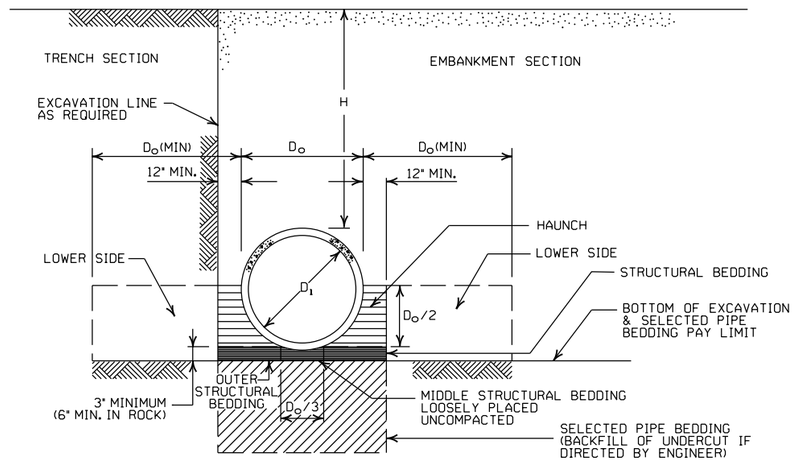
- LEGEND -

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.

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."

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.

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

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

CORRUGATED METAL PIPE ARCHES

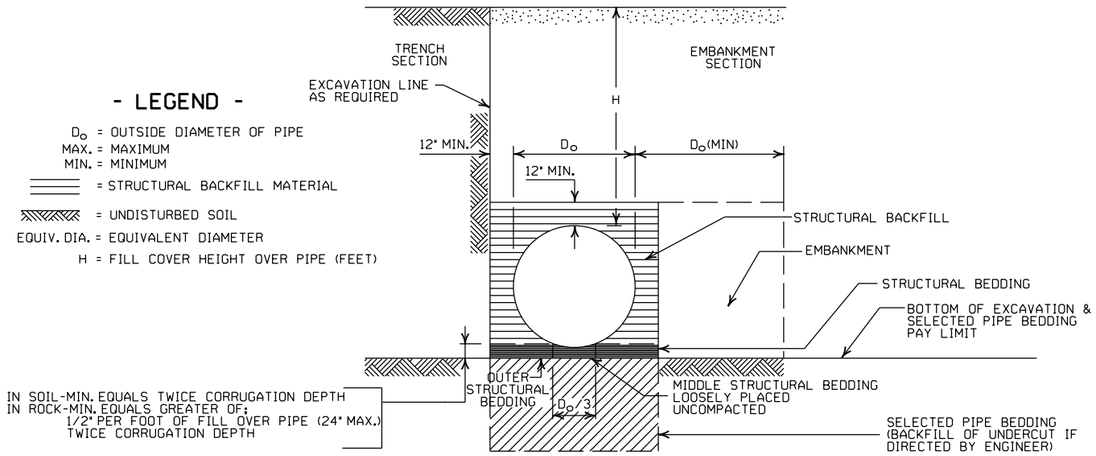
EQUIV. DIA. (INCHES)	PIPE DIMENSION SPAN X RISE (INCHES)	MINUMUM CORNER RADIUS (INCHES)	STEEL				ALUMINUM			
			MIN. THICKNESS REQUIRED INCHES	① MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)		MIN. THICKNESS REQUIRED INCHES	① MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)	
				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			

① FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM 12" OF PAVEMENT AND/OR BASE.

② WHERE THE STANDARD 2 2/3"x ½" CORRUGATION AND GAUGE IS SPECIFIED FOR A GIVEN DIAMETER, A PIPE OF THE SAME DIAMETER WITH A 3" x 1" OR 5" x 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.

- 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."

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 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 HDPE PIPE.

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 TRENCH WIDTH BASED ON FILL HEIGHT "H"

PIPE DIAMETER	TRENCH WIDTH (FEET)	
	"H" < 10'-0"	"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"

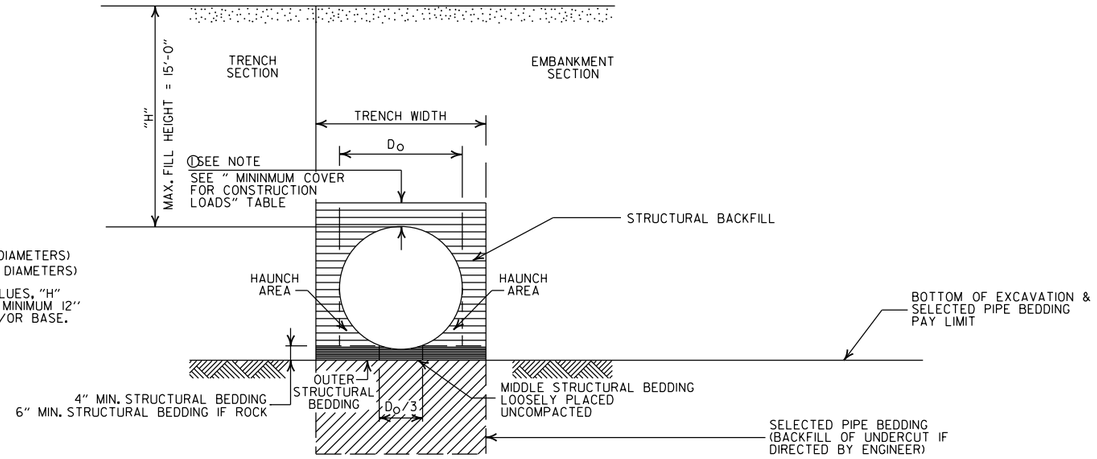
①NOTE:
18" MIN. (18" - 30" DIAMETERS)
24" MIN. (36" - 48" DIAMETERS)

MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM 12" OF PAVEMENT AND/OR BASE.

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.



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 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.)
D = 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"	"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

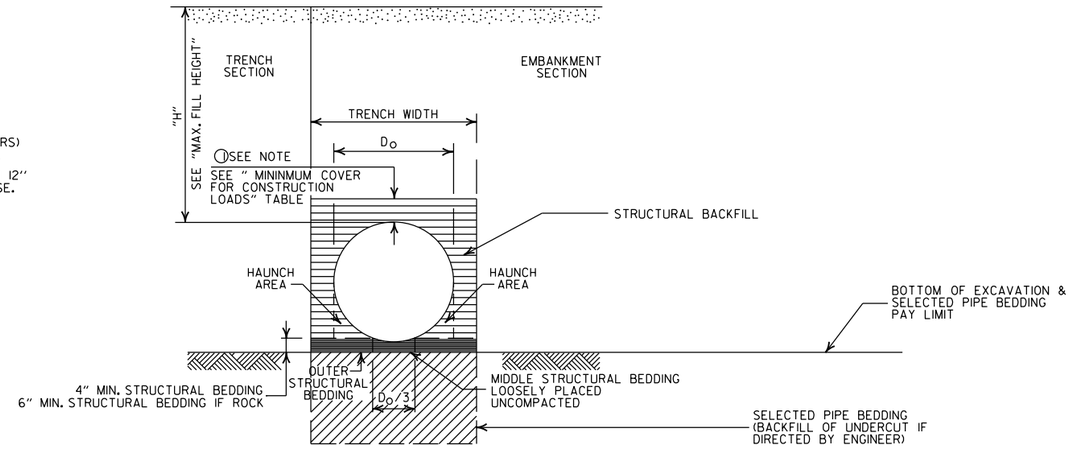
PIPE DIAMETER	"H"
18"	45'-0"
24"	45'-0"
30"	40'-0"
36"	40'-0"

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 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 POLYPROPYLENE PIPE.

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 TRENCH WIDTH BASED ON FILL HEIGHT "H"

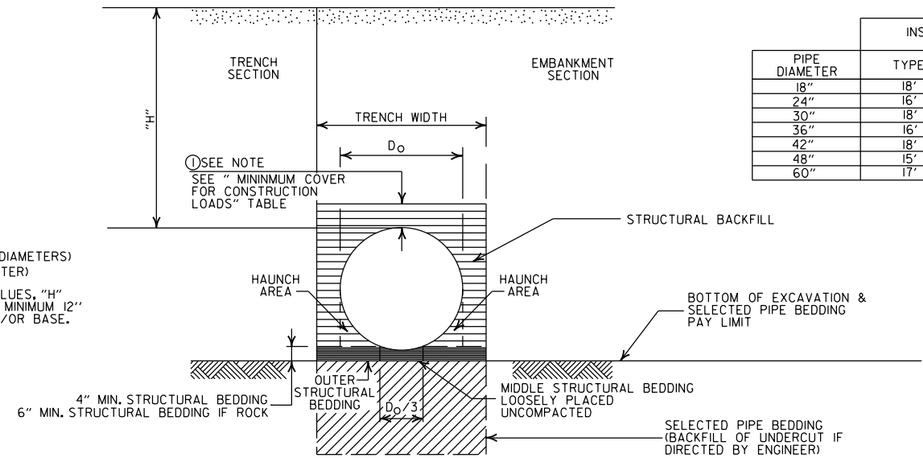
PIPE DIAMETER	TRENCH WIDTH (FEET)	
	"H" < 10'-0"	"H" >OR= 10'-0"
18"	4'-6"	4'-6"
24"	5'-0"	6'-0"
30"	5'-6"	7'-6"
36"	6'-0"	9'-0"
42"	7'-0"	10'-6"
48"	8'-0"	12'-0"
60"	10'-0"	15'-0"

①NOTE:
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	TYPE 2
18"	18'	14'
24"	16'	12'
30"	18'	14'
36"	16'	12'
42"	18'	13'
48"	15'	11'
60"	17'	12'



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"

②MINIMUM 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

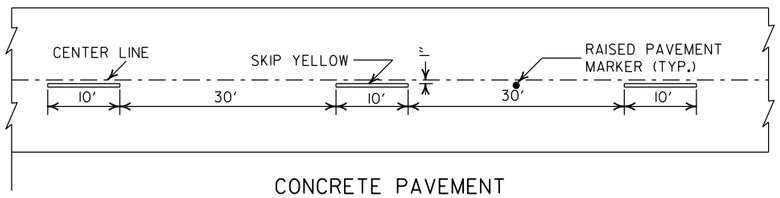
= UNDISTURBED SOIL

DATE	REVISION	DATE FILMED
02-27-20	REVISED	
11-07-19	ISSUED	

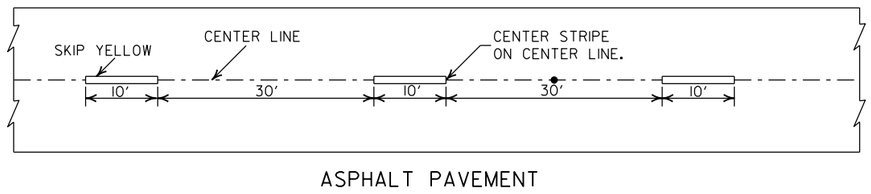
ARKANSAS STATE HIGHWAY COMMISSION

PLASTIC PIPE CULVERT (POLYPROPYLENE)

STANDARD DRAWING PCP-3

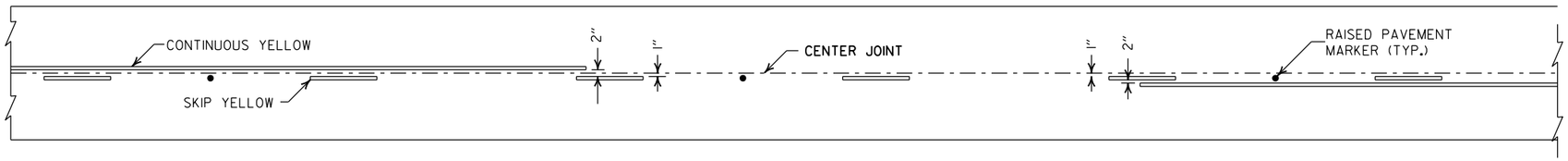


CONCRETE PAVEMENT

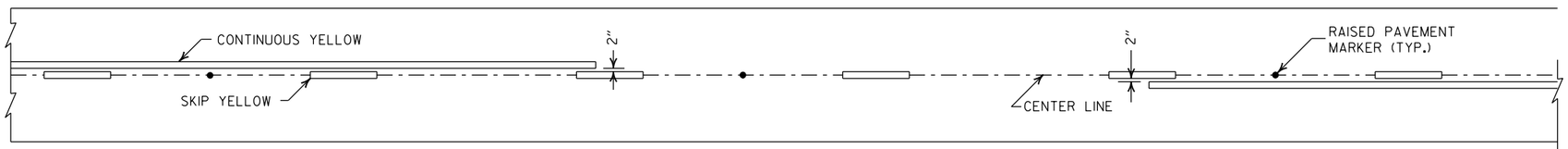


ASPHALT PAVEMENT

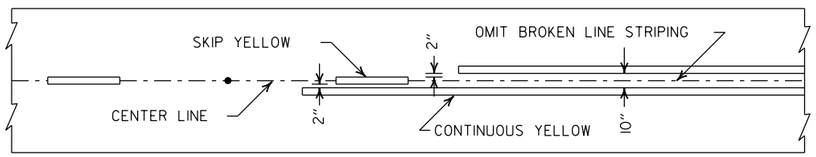
BROKEN LINE STRIPING



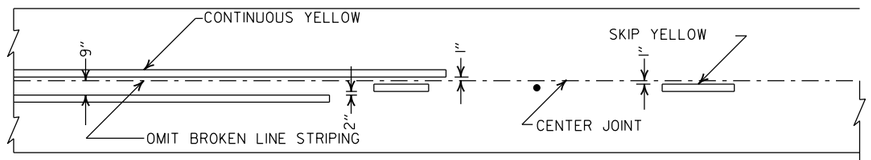
SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT

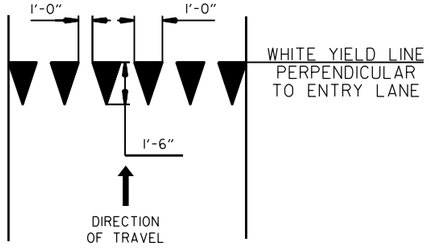


ASPHALT PAVEMENT

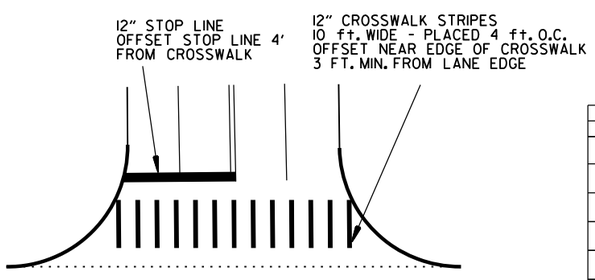


CONCRETE PAVEMENT

STRIPING AT ADJACENT NO PASSING LANES

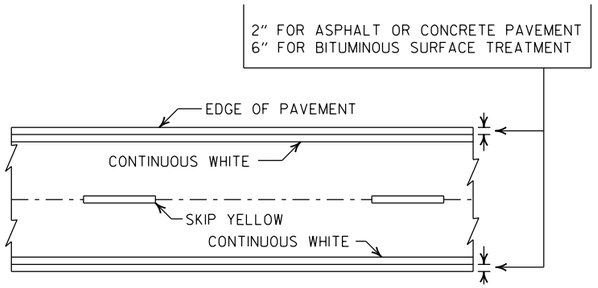


YIELD LINE DETAIL



CROSSWALK AND STOP LINE DETAILS

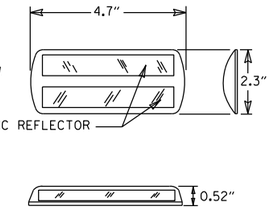
NOTES:
1. REFER TO THE STRIPING DETAILS FOR PAVEMENT MARKING LINE WIDTHS.
2. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
3. RAISED PAVEMENT MARKERS SHALL BE PLACED ON AN 80 FEET SPACING UNLESS OTHERWISE SHOWN IN THE PLANS.



PAVEMENT EDGE LINE MARKING

NOTE:
THE RED LENS OF THE TYPE II R.P.M. SHALL FACE THE INCORRECT TRAFFIC MOVEMENT.

TYPE II
RED/CLEAR OR
YELLOW/YELLOW



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

DATE	REVISION	FILMED
2-27-20	REVISED STOP LINE DETAILS	
6-1-17	ADDED YIELD LINE DETAIL	
5-12-16	REVISED LINE WIDTHS, SPACING, & NOTES	
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS	
11-17-10	REVISED GENERAL NOTES & REMOVED PLOWABLE PVMT MRKRS	
11-18-04	REVISED NOTE 2 & GENERAL NOTES	
8-22-02	ADDED CROSSWALK & STOPBAR DTLS.	
7-02-98	ADDED DETAILS OF STD. RAISED PAV'T. MARKERS	
4-26-96	REV. NOTES 3&4; ADDED R.P.M.	
9-30-80	DRAWN	1-9-30-80

ARKANSAS STATE HIGHWAY COMMISSION

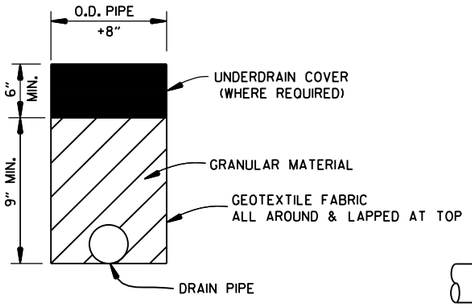
PAVEMENT MARKING DETAILS

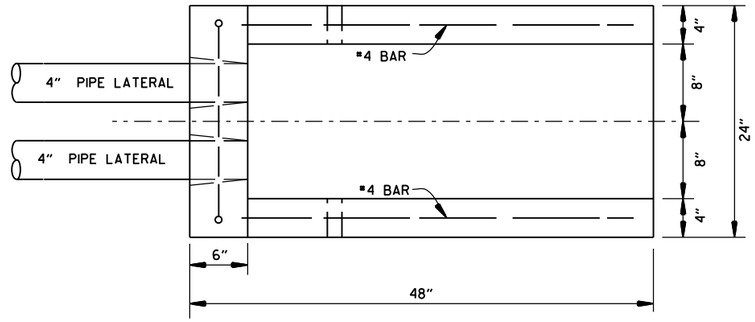
STANDARD DRAWING PM-1

NOTE:

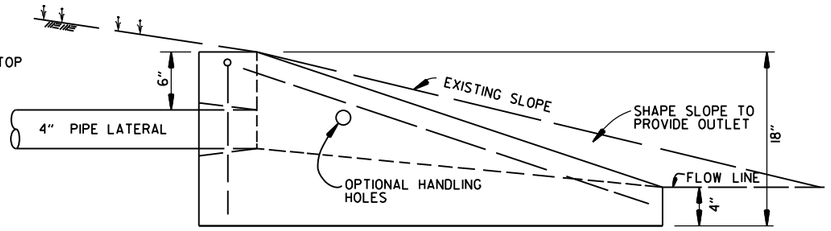
1. UNLESS OTHERWISE SPECIFIED ON THE PLANS, THE UNDERDRAIN COVER SHALL BE THOROUGHLY COMPACTED EARTH AND SHALL BE SUBSIDIARY TO PIPE UNDERDRAIN.

2. GRANULAR MATERIAL SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. LAP FABRIC 12" OR THE WIDTH OF THE TRENCH AT THE TOP.

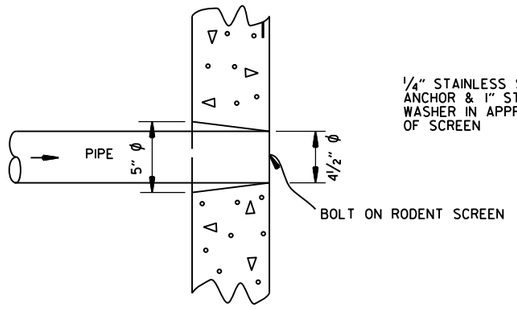




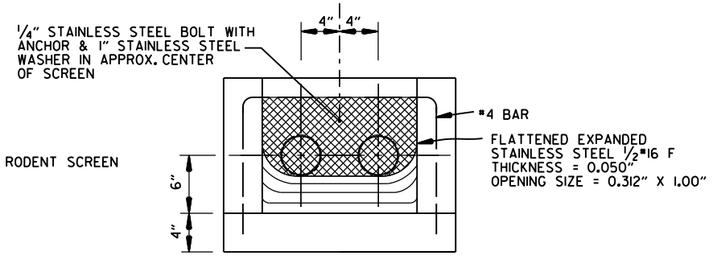
PLAN VIEW



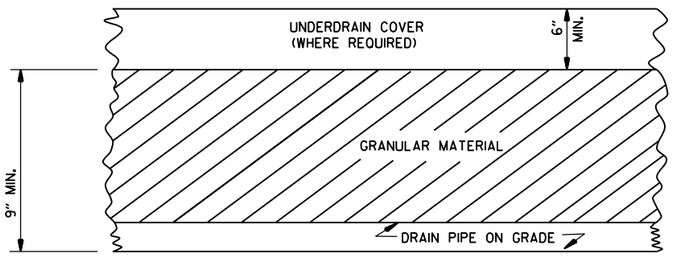
SIDE VIEW



DETAIL OF HOLE
FOR 4" PIPE



FRONT VIEW
(DETAIL OF RODENT SCREEN)



DETAILS OF PIPE UNDERDRAIN

NOTES FOR PIPE UNDERDRAINS

1. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF SECTION 625 FOR TYPE 1. 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."

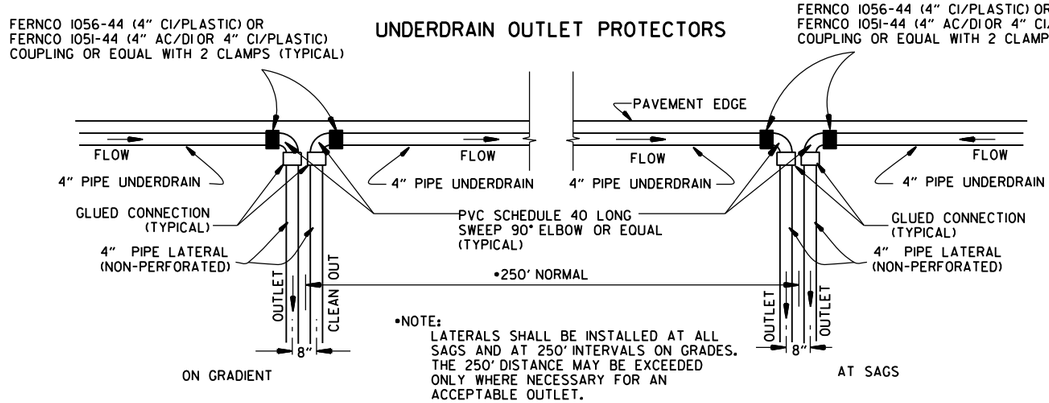
4. THE LOCATION OF ALL LATERALS SHALL BE MARKED WITH 4" X 12" PERMANENT PAVEMENT MARKING TAPE (TYPE III WHITE) AT THE OUTSIDE EDGE OF THE SHOULDER, PLACED TRANSVERSE TO TRAFFIC. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

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.

UNDERDRAIN OUTLET PROTECTORS



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.

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

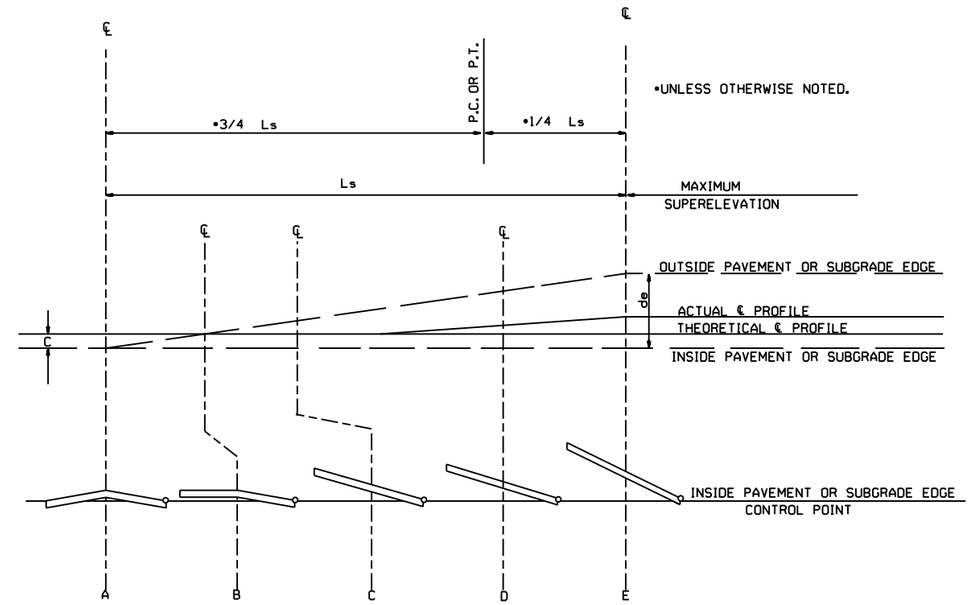
SUPERELEVATION TABLE FOR TWO - WAY TRAFFIC (4% MAXIMUM)

DEGREE OF CURVE	30 MPH e	30 MPH Ls (FT) MINIMUM	30 MPH Ls (FT) DESIRABLE	DEGREE OF CURVE	35 MPH e	35 MPH Ls (FT) MINIMUM	35 MPH Ls (FT) DESIRABLE	DEGREE OF CURVE	40 MPH e	40 MPH Ls (FT) MINIMUM	40 MPH Ls (FT) DESIRABLE	DEGREE OF CURVE	45 MPH e	45 MPH Ls (FT) MINIMUM	45 MPH Ls (FT) DESIRABLE
0° 15'	NC			0° 15'	NC			0° 15'	NC			0° 15'	NC		
0° 30'				0° 30'				0° 30'				0° 30'			
0° 45'				0° 45'				0° 45'				0° 45'			
1° 00'				1° 00'				1° 00'				1° 00'	RC	90	125
1° 15'				1° 15'				1° 15'				1° 15'			
1° 30'				1° 30'				1° 30'	RC	84	100	1° 30'	0.022	95	
1° 45'				1° 45'				1° 45'				1° 45'	0.024	99	
2° 00'				2° 00'	RC	78	100	2° 00'	0.022	88		2° 00'	0.026	104	
2° 15'	RC	72	100	2° 15'				2° 15'	0.024	92	125	2° 15'			
2° 30'				2° 30'	0.022	82		2° 30'	0.026	97		2° 30'	0.028	108	150
2° 45'				2° 45'				2° 45'				2° 45'	0.030	113	
3° 00'				3° 00'	0.024	86	125	3° 00'				3° 00'			
3° 15'	0.022	75		3° 15'				3° 15'	0.028	101		3° 15'	0.032	117	
3° 30'				3° 30'				3° 30'				3° 30'			
3° 45'	0.024	79		3° 45'	0.026	90		3° 45'	0.030	105		3° 45'	0.034	122	
4° 00'				4° 00'				4° 00'				4° 00'			
4° 15'				4° 15'				4° 15'	0.032	109		4° 15'			
4° 30'				4° 30'	0.028	94		4° 30'				4° 30'	0.036	126	
4° 45'	0.026	83		4° 45'				4° 45'				4° 45'			
5° 00'				5° 00'	0.030	98		5° 00'	0.034	113		5° 00'	0.038	131	
5° 30'				5° 30'				5° 30'				5° 30'			
6° 00'				6° 00'	0.032	101		6° 00'	0.036	118	150	6° 00'	0.040	135	
6° 30'	0.028	86		6° 30'				6° 30'							
7° 00'				7° 00'			150	7° 00'	0.038	122					
7° 30'	0.030	90		7° 30'	0.034	105		7° 30'							
8° 00'				8° 00'				8° 00'	0.040	126					
8° 30'	0.032	93		8° 30'	0.036	109									
9° 00'				9° 00'											
9° 30'				9° 30'											
10° 00'	0.034	97		10° 00'	0.038	113									
10° 30'				10° 30'											
11° 00'				11° 00'											
11° 30'			125	11° 30'	0.040	117									
12° 00'	0.036	100													
12° 30'															
13° 00'															
13° 30'															
14° 00'	0.038	104													
14° 30'															
15° 00'															
15° 30'															
16° 00'															
16° 30'	0.040	108	150												

D MAX = 22° 45' | D MAX = 15° 15' | D MAX = 10° 30' | D MAX = 8° 00'

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.)



STANDARD METHOD WHEN SUPERELEVATION REVOLVES AROUND INNER SUBGRADE POINT OR INNER PAVEMENT EDGE

NOTE: MAINTAIN NORMAL CROWN ON INSIDE UNTIL SUPERELEVATION EXCEEDS 2C.

SUPERELEVATION FORMULA = $\frac{Lde}{Ls}$

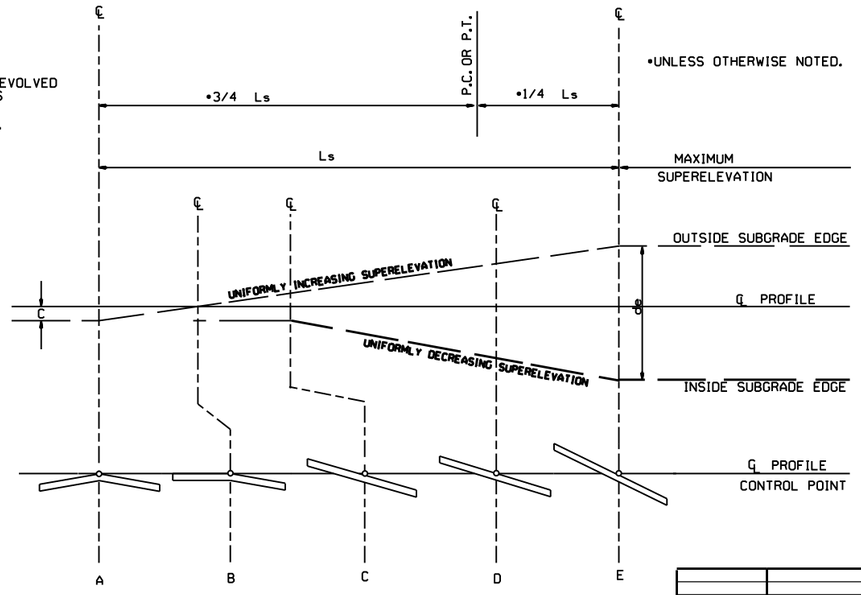
GENERAL NOTES

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.



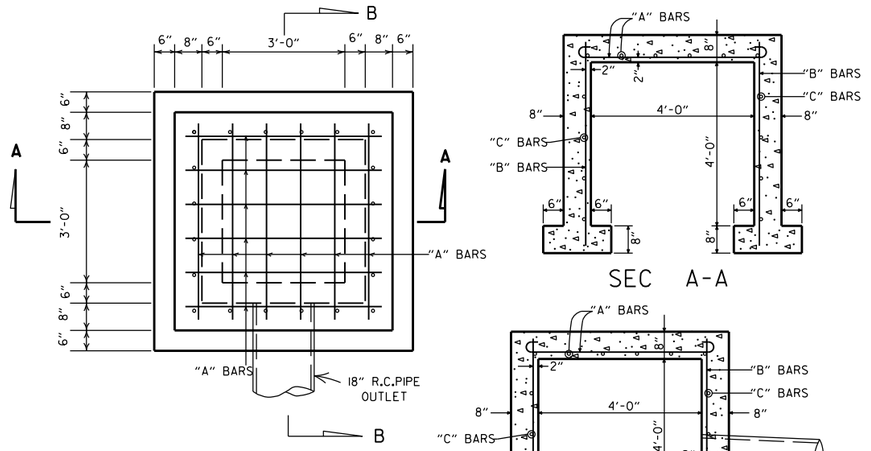
STANDARD METHOD WHEN SUPERELEVATION REVOLVES AROUND CENTER LINE

11-07-19	ISSUED	
DATE	REVISION	DATE FILMED

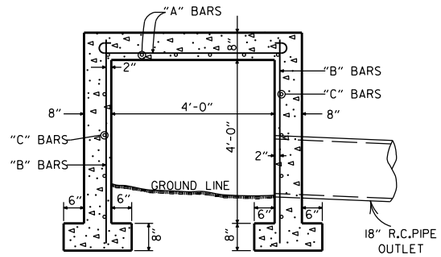
ARKANSAS STATE HIGHWAY COMMISSION

TABLES AND METHOD OF SUPERELEVATION FOR TWO-WAY TRAFFIC (4% MAXIMUM)

STANDARD DRAWING SE-3



SEC A-A



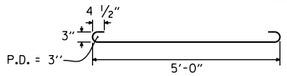
SEC B-B

NOTE: MAX FILL HEIGHT ABOVE TOP OF BOX = 13'-0".

STEEL SCHEDULE

BARS	NUMBER	LENGTH	SPACING
"A"	12	6'-0"	10"
"B"	20	5'-0"	10 ½"
"C"	16	5'-0"	12"

ALL STEEL TO BE #4 BARS



"A" BARS

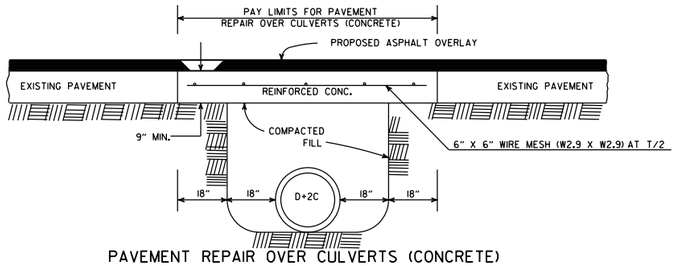
QUANTITIES

CONCRETE 3.31 CU. YDS.
REINFORCING STEEL 168 LB.

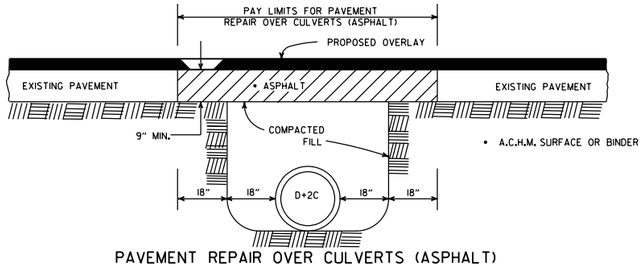
GENERAL NOTE:

THE PAY ITEMS FOR REINFORCED CONCRETE SPRING BOXES SHALL BE FOR THE QUANTITIES OF CONCRETE OF THE CLASS SPECIFIED, REINFORCING STEEL, EXCAVATION FOR STRUCTURES AND 18" R.C. PIPE CULVERT.

REINFORCED CONCRETE SPRING BOX



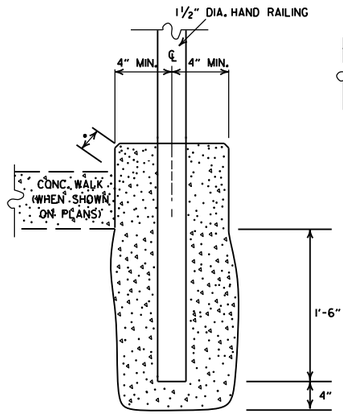
PAVEMENT REPAIR OVER CULVERTS (CONCRETE)



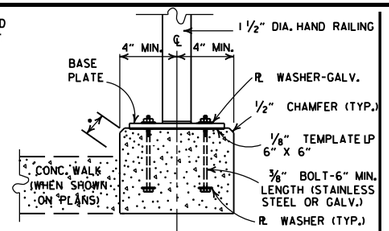
PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS

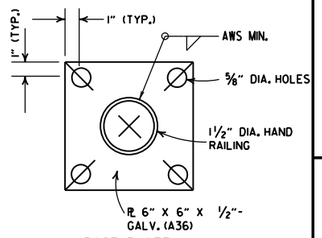
• A 2" MIN. HIGH CURB IS REQUIRED WHEN CONCRETE WALK IS ADJACENT TO THE HAND RAILING. PAYMENT FOR CURB SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR CONCRETE WALKS.



DETAIL OF HAND RAILING SET IN CONCRETE

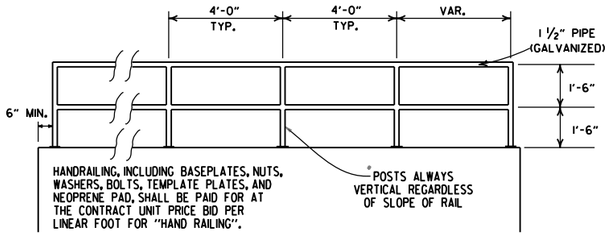


POST CONNECTION TO WALL

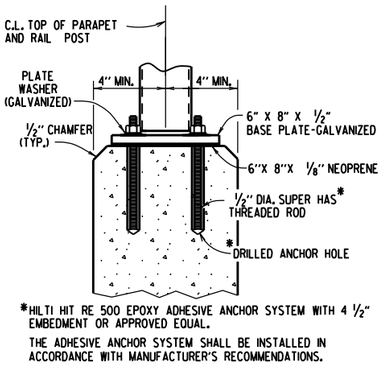


BASE PLATE

POST CONNECTION DETAILS



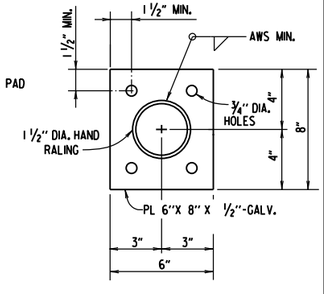
HAND RAILING SHALL CONFORM TO SECTION 633.



*HILTI HIT RE 500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 4 ½" EMBEDMENT OR APPROVED EQUAL.

THE ADHESIVE ANCHOR SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

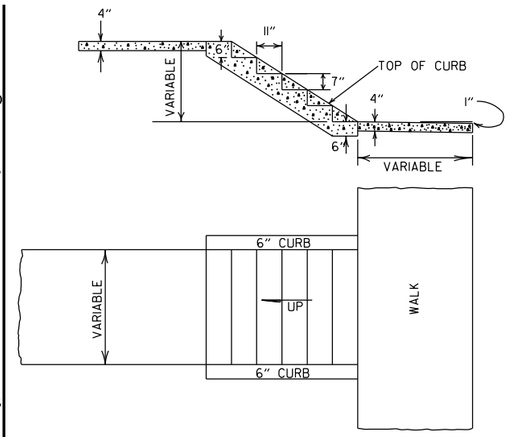
POST CONNECTION TO WALL



BASE PLATE

DETAILS OF ALTERNATE POST ANCHOR SYSTEM (EPOXY ADHESIVE ANCHORS)

HAND RAILING DETAILS



GENERAL NOTES

1. RISE AND TREAD DIMENSIONS OF STEPS MAY BE VARIED AS DIRECTED BY THE ENGINEER, HOWEVER, TREAD WIDTHS SHALL BE 11" MIN. ALL STEPS IN A FLIGHT SHALL HAVE CONSISTENT TREAD & RISER DIMENSIONS.
2. 1" TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE WALKS AT 45' INTERVALS.

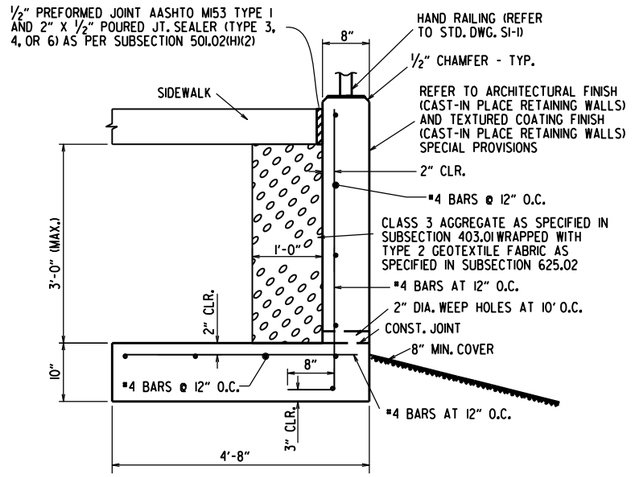
DETAILS OF CONCRETE STEPS & WALKS

DATE	REVISION	DATE FILMED
10-25-18	REVISED DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS	
9-12-13	REVISED REINFORCED CONCRETE SPRING BOX	
7-26-12	REMOVED RETAINING WALL DETAILS & REVISED HAND RAILING DETAILS	
4-17-08	REV. JOINT & FOOTING STEP DETAILS	
11-29-07	REVISED RETAINING WALL DRAINAGE	
5-25-06	REVISED PVMT REPAIR OVER CULVERTS (CONC); REVISED REINFORCED CONC SPRING BOX	
10-9-03	REVISED PIPE RAILING DETAILS TO HAND RAILING DETAILS	
4-10-03	REVISED RETAINING WALL DRAWING	
8-22-02	ADDED HAND RAILING DETAIL	
11-16-01	REVISED PVMT REPAIR OVER CULVERTS (CONC); CORRECTED SPELLING IN GENERAL NOTES	
11-18-98	ADDED GENERAL NOTES TO CONCRETE STEPS & WALKS	
7-02-98	ENLARGED PIPE	
4-03-97	ADDED NOTE TO STEEL BAR SCHED.	
10-18-96	CORRECTED SPELLING	
4-26-94	ADD WEEP HOLE;REV. JOINT SPACING IN RET. WALL	
6-2-94	CHANGED CONST. TO CONTRACTION JOINT	
10-1-92	CHANGED MESH FABRIC TO WIRE MESH	10-1-92
8-15-91	DELETED HDWL MODIFICATION DETAIL	8-15-91
11-8-90	DELETED COLD MIX FROM CULV'T. REPAIR	11-8-90
11-30-89	REV. RETAINING WALL STEEL SCHEDULE	11-30-89
11-17-88	V. BARS BEHIND ARROW	665-11-17-88
7-15-88	REV. PAVEMENT REPAIR ADDED HDWL. MODS, DEL. PIPE UNDERDRAINS	649-7-15-88
11-1-84	REV. TRENCH FOR PIPE UNDERDRAIN	510-11-1-84
1-4-83	ELIMINATED CONC. CLASS & ADDED CHAMFER NOTE	682-1-4-83
3-2-81	SPELLING OF "UNDERDRAIN"	721-3-2-81
4-20-79	REV. UNDERDRAIN DET& PAVEMENT REPAIR	674-4-20-79
2-2-76	12"MIN. GRAN. MAT'L. OVER PIPE	919-2-2-76
4-10-75	REM. SPECS. FOR GRAN. MAT'L.	568-4-10-75-853
5-22-74	GRANULAR MAT'L. TO BE SB-3	567-5-22-74-740
10-2-72	REVISED AND REDRAWN	564-10-16-72

ARKANSAS STATE HIGHWAY COMMISSION

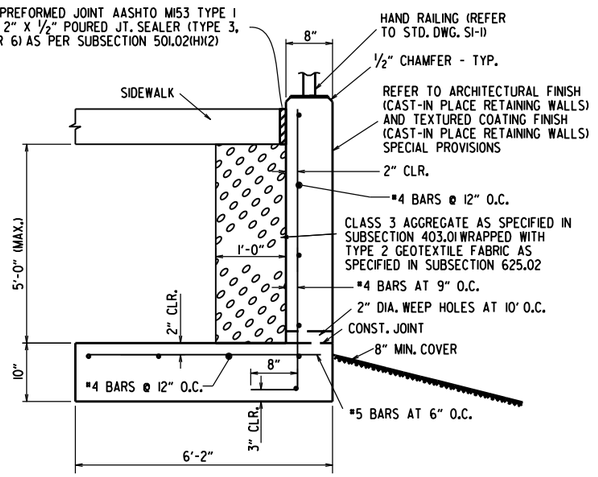
DETAILS OF SPECIAL ITEMS

STANDARD DRAWING SI - 1



CONCRETE WALK (TYPE SPECIAL) DETAIL MAX HEIGHT 3'-0"

N.T.S.



CONCRETE WALK (TYPE SPECIAL) DETAIL MAX HEIGHT 5'-0"

N.T.S.

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: 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.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SIXTH EDITION (2012).

LIVE LOAD: LIVE LOAD SURCHARGE IS NOT INCLUDED IN THE DESIGN OF THESE WALLS. VEHICULAR LIVE LOAD SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO ONE-HALF THE HEIGHT OF THE WALL.

CONCRETE: CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED ½". ALL CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH F'C = 3,500 PSI. A CLASS 2 SURFACE FINISH SHALL BE USED ON ALL SURFACES OF THE CONCRETE UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS) AND TEXTURED COATING FINISH (CAST-IN PLACE RETAINING WALLS) SPECIAL PROVISIONS.

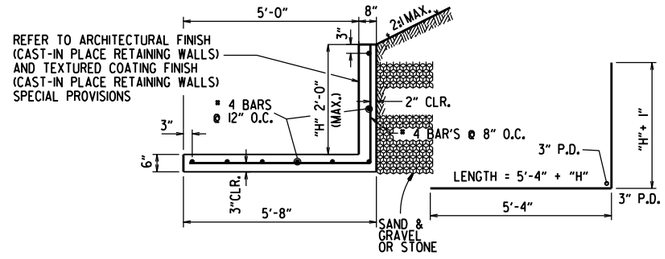
REINFORCING STEEL: ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M53, GRADE 60.

FOUNDATIONS FOR FOOTINGS SHALL BE PREPARED IN ACCORDANCE WITH SUBSECTION 801.04. BACKFILL FOR RETAINING WALLS SHALL BE IN ACCORDANCE WITH SUBSECTION 801.08.

WATERPROOF MEMBRANE (TYPE C), WATERSTOPS, PREFORMED JOINTS, PREFORMED JOINT FILLER, WEEP HOLES, CLASS 3 AGGREGATE, REINF. STEEL, CONCRETE, & GEOTEXTILE FABRIC SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO CONCRETE WALKS (TYPE SPECIAL).

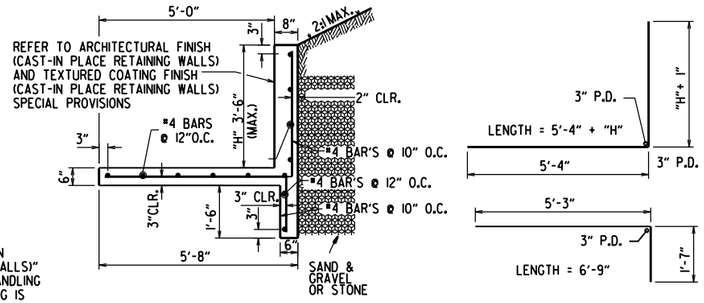
JOINTS IN THE WALL SHALL MATCH TYPE AND SPACING OF THE JOINTS IN THE WALK.

THESE DETAILS ARE NOT INTENDED FOR USE ALONG STREAMS OR DITCHES WITHOUT CONSIDERATION FOR SCOUR.



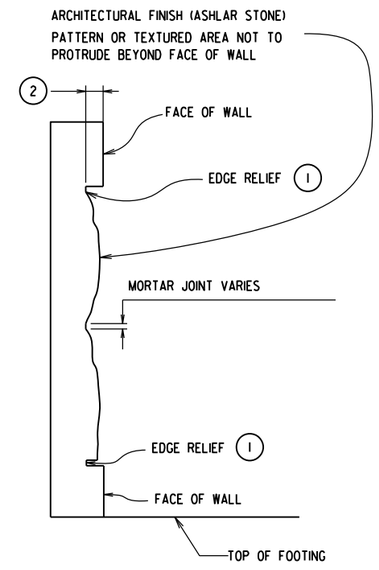
CONCRETE WALK (TYPE SPECIAL) DETAILS MAX HEIGHT 2'-0"

N.T.S.



CONCRETE WALK (TYPE SPECIAL) DETAILS MAX HEIGHT 3'-6"

N.T.S.

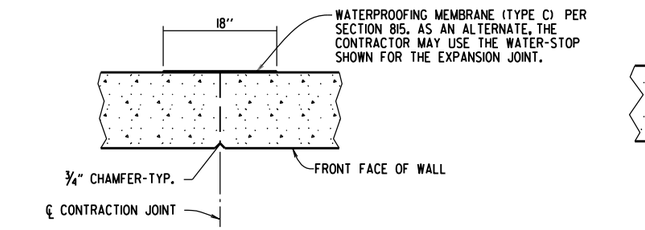


ARCHITECTURAL FINISH DETAILS

N.T.S.

(1) PROVIDE EDGE RELIEF AROUND PERIMETER OF TEXTURE. EDGE RELIEF DIMENSIONS SHALL MATCH MANUFACTURERS EDGE DISTANCE.

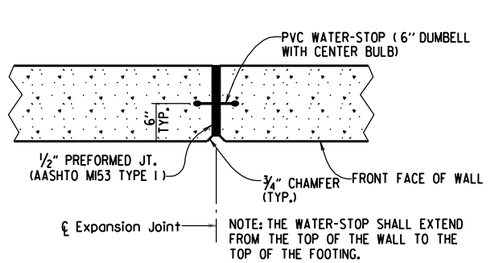
(2) DEPTH OF ASHLAR STONE PATTERN APPROX. 1⅝". SEE SP "ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS)".



TYPICAL CONTRACTION JOINT DETAIL

N.T.S.

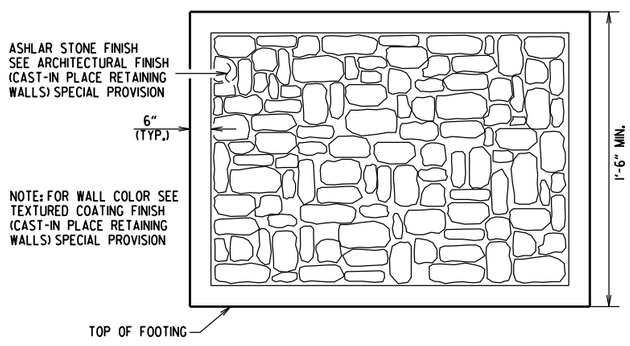
NOTE: 20'-0" MAX. SPACING BETWEEN CONTRACTION JOINTS. HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTRACTION JOINTS.



TYPICAL EXPANSION JOINT DETAIL

N.T.S.

NOTE: 60'-0" MAX. SPACING BETWEEN EXPANSION JOINTS. HORIZONTAL REINFORCING SHALL STOP 2" FROM ℄ EXPANSION JOINT.



ASHLAR STONE FINISH DETAIL

NOTES:

WALL PATTERN SHALL BE APPLIED TO THE EXPOSED SURFACES OF WALL IN ACCORDANCE WITH SP "ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS)" AND AS SHOWN IN THE PLANS. CARE SHALL BE TAKEN WITH FORM LINER HANDLING AND INSTALLATION TO ENSURE AESTHETIC QUALITY OF THE WALL TEXTURING IS MAINTAINED. WHERE FORM LINER PANELS REQUIRE MODIFICATION TO CONFORM TO THE LOCATION, DIMENSIONS AND LINES SHOWN IN THE PLANS, THE CONTRACTOR SHALL PROVIDE EDGE RELIEF MATCHING THAT OF THE UNALTERED FORM LINER. PAYMENT FOR WALL TEXTURING SHALL BE IN ACCORDANCE WITH SP "ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS)".

NO ADJUSTMENTS WILL BE MADE IN CONCRETE VOLUME DUE TO THE USE OF "ARCHITECTURAL FINISH". CLASS "S" CONCRETE SHALL BE MEASURED IN ACCORDANCE WITH SUBSECTION 802.24(A). CARE SHALL BE TAKEN IN PLACING CONCRETE TO AVOID SEGREGATION AND TO ELIMINATE FLOW LINES.

CLASS 3 TEXTURED COATING FINISH SHALL BE APPLIED TO WALL SURFACES AS SPECIFIED IN SP "TEXTURED COATING FINISH (CAST-IN PLACE RETAINING WALLS)" AND IN ACCORDANCE WITH SUBSECTION 802.19(B)(3).

DATE	REVISION	DATE FILMED
11-05-20	REVISED GENERAL NOTES	
5-14-20	DRAWING ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE WALK (TYPE SPECIAL)

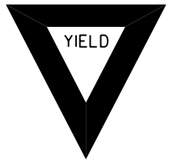
STANDARD DRAWING SI - 3

R1-1



STANDARD 30"X30"
EXPRESSWAY 36"X36"
SPECIAL 48"X48"

R1-2



STD. 36"X36"X36"
EXPWY. 48"X48"X48"
FWY. 60"X60"X60"

R2-1



STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

W3-5



STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

W3-5a



STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

R4-1



STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-2



STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R5-1



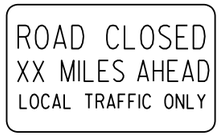
STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

R11-2



48"X30"

R11-3A



60"X30"

R11-4



60"X30"

W21-5a



STD. 36"X36"
FWY. 48"X48"

W1-1



STD. 36"X36"
FWY. 48"X48"

W1-2



STD. 36"X36"
FWY. 48"X48"

W1-3



STD. 48"X48"

W1-4



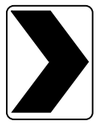
STD. 48"X48"

W1-6



STD. 48"X24"
SPECIAL 60"X30"

W1-8



STD. 18"X24"
SPECIAL 24"X30"
EXPWY. 30"X36"
FWY. 36"X48"

W3-1



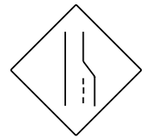
STD. 36"X36"
SPECIAL 48"X48"

W3-2



STD. 36"X36"
SPECIAL 48"X48"

W4-2



STD. 36"X36"
FWY. 48"X48"

W5-1



STD. 36"X36"
SPECIAL 48"X48"

W6-3



EXPWY. 36"X36"
SPECIAL 48"X48"

W8-7



EXPWY. 36"X36"
FWY. 48"X48"

W9-2



STD. 36"X36"
FWY. 48"X48"

W13-1



STD. 24"X24"

W20-1



STD. 48"X48"

W20-2



STD. 48"X48"

W20-3



STD. 48"X48"

W20-4



STD. 48"X48"

W20-5



STD. 48"X48"

W20-7a



STD. 36"X36"
FWY. 48"X48"

W21-2



STD. 30"X30"
SPECIAL 36"X36"

W21-5



STD. 30"X30"
SPECIAL 36"X36"

W24-1



STD. 36"X36"

W1-4b



STD. 48"X48"

R56-1



STD. 18"X18"

W8-11



STD. 36"X36"
FWY. 48"X48"

W8-9



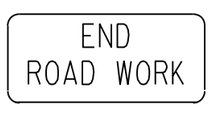
STD. 36"X36"
FWY. 48"X48"

G20-1



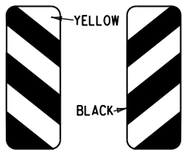
60"X24"

G20-2



48"X24"

OM-3L OM-3R



12"X36"

M4-9



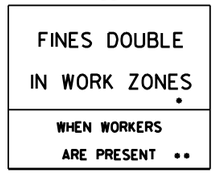
STD. 30"X24"
SPECIAL 48"X36"
SPECIAL 60"X48"

M4-10



48"X18"

R55-1



36"X60"

• USE 6" C LETTERS
•• USE 4" D LETTERS

ADVANCE DISTANCES
(XXXX)

500 FT	½ MILE
1000 FT	¾ MILE
1500 FT	1 MILE AHEAD

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. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

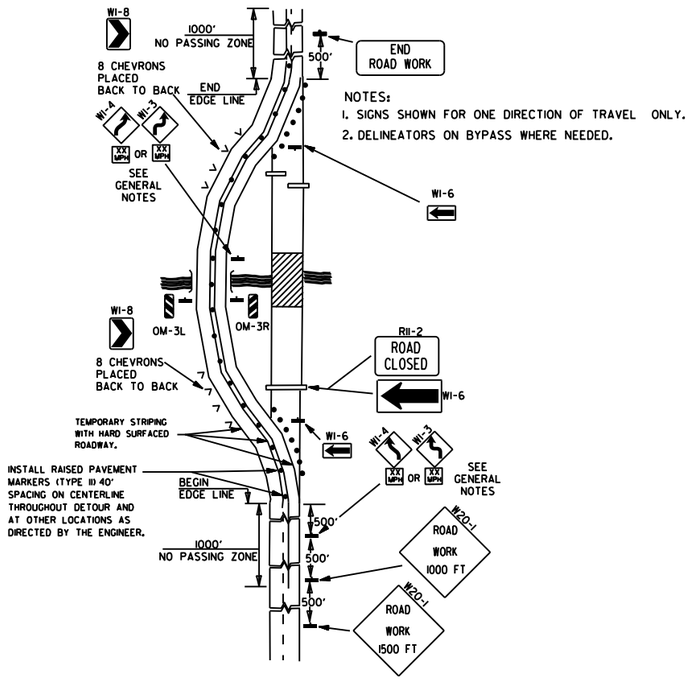
- NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

DATE	REVISION	FILMED
11-07-19	REVISED FOR MASH	
4-13-17	DELETED RSP-1 & ADDED W21-5a	
9-2-15	REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES	
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95
2-2-95	REVISED PER PART VI, MUTCD SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION

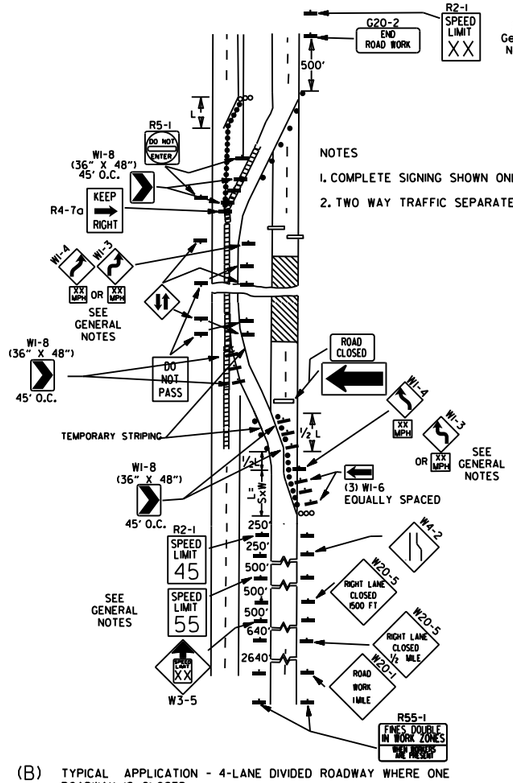
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



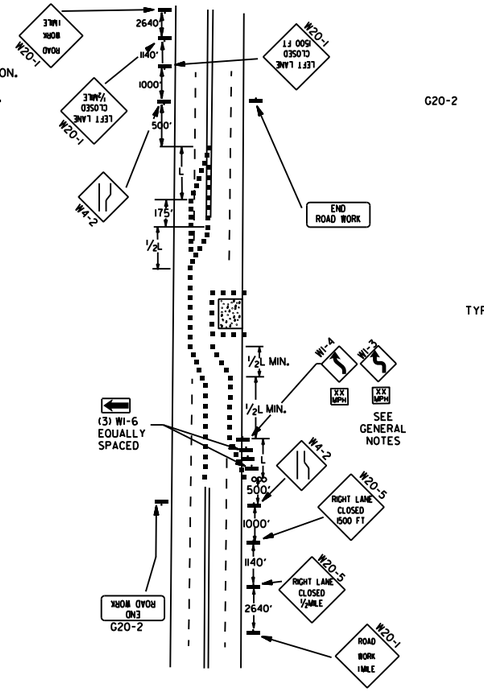
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.

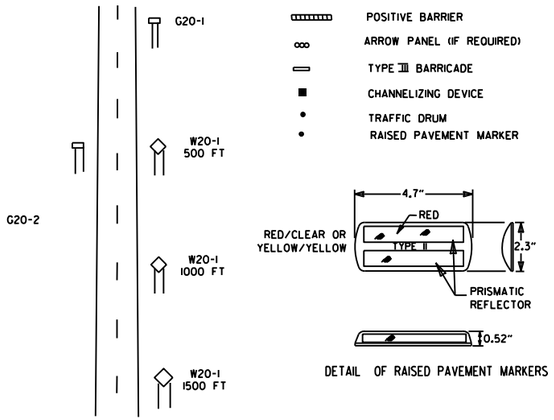


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

(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.



DETAIL OF RAISED PAVEMENT MARKERS

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:

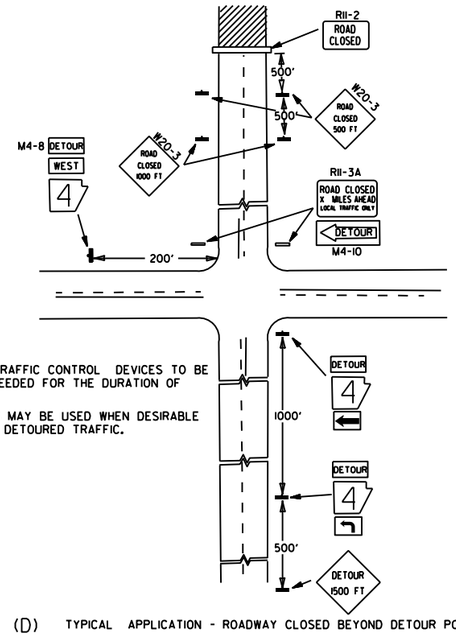
L= MINIMUM LENGTH OF TAPER.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

W= WIDTH OF OFFSET.

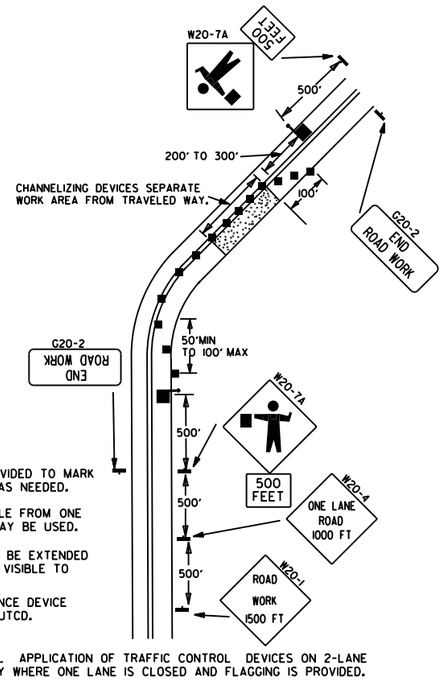
GENERAL NOTES:

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 WI-3 OR WI-4 CURVE WARNING SIGNS. USE WI-4 WHEN SPEED IS GREATER THAN 30MPH AND WI-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 R2-145MPH 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 R2-155MPH 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).



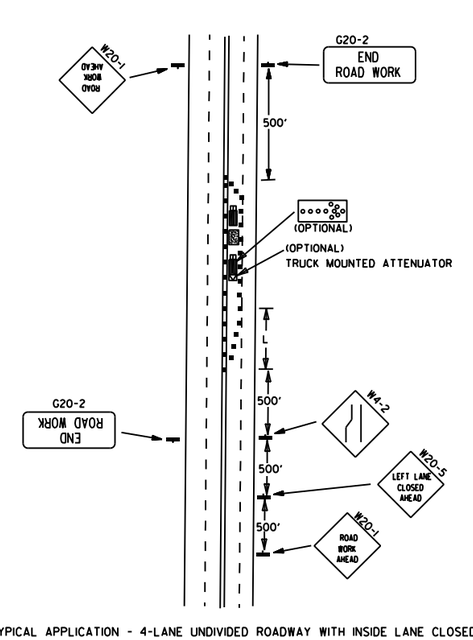
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

(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.

(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.



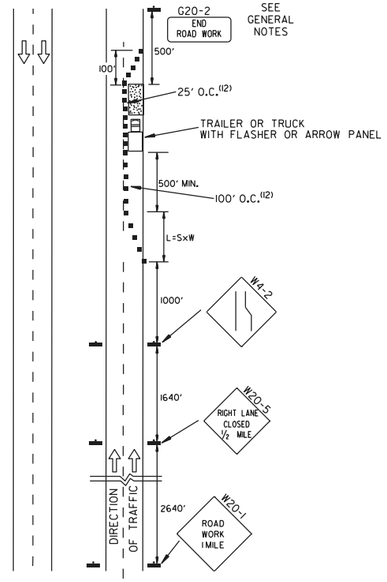
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

DATE	REVISION	FILMED
05-20-21	REVISED NOTE 7	
11-07-19	REVISED NOTE 1, ADDED NOTE 9	
9-2-15	REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWING (A) & REPLACED R2-5A WITH W3-5	
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (a) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W1-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

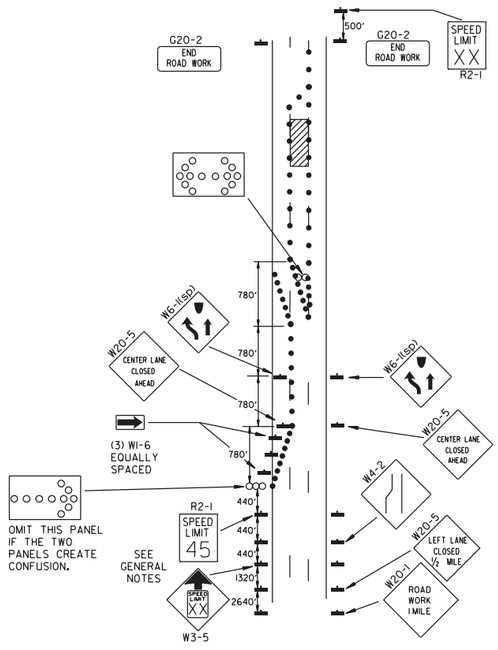
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

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:

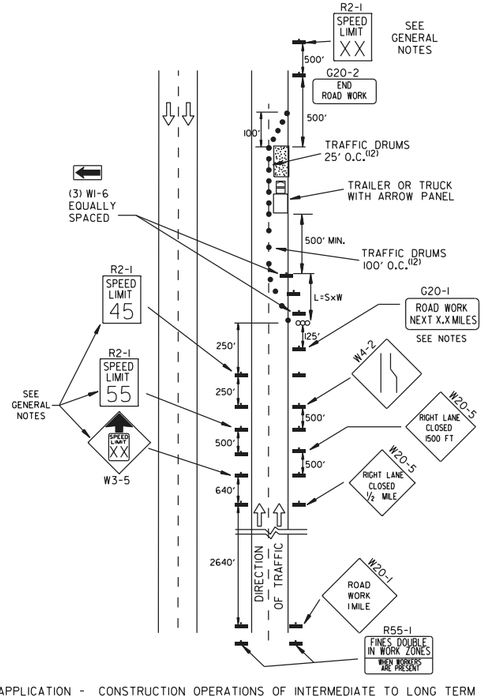
○○○ ARROW PANEL (IF REQUIRED)

■ CHANNELIZING DEVICE

● TRAFFIC DRUM

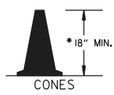
GENERAL NOTES:

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 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. THE G20-1 SIGN WILL BE REQUIRED 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.
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.



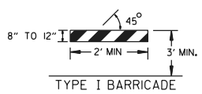
(C) TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

CHANNELIZING DEVICES

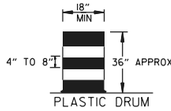


CONES

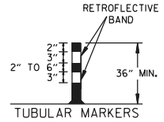
* WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.



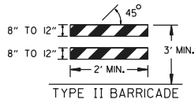
TYPE I BARRICADE



PLASTIC DRUM



TUBULAR MARKERS

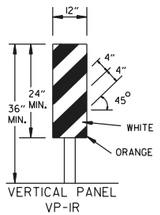


TYPE II BARRICADE

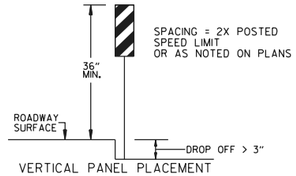


TYPE III BARRICADE

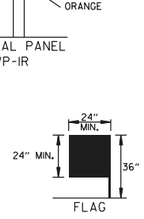
NOTE:
FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES SHALL BE OF SUFFICIENT LENGTH TO EXTEND ACROSS ENTIRE ROADWAY.



VERTICAL PANEL
VP-1R

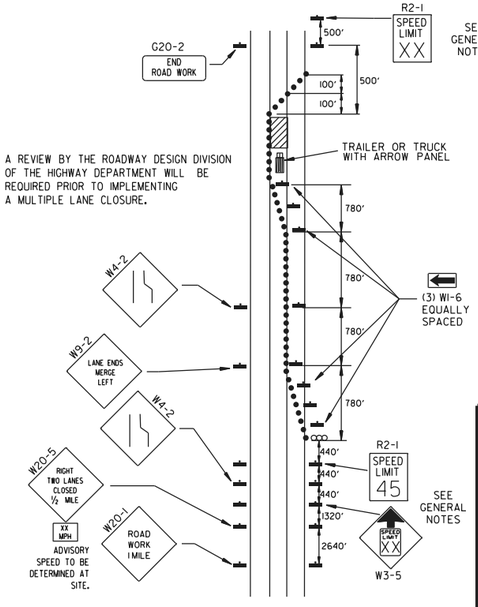


VERTICAL PANEL PLACEMENT



FLAG SHALL BE OF GOOD GRADE
RED MATERIAL

FLAG



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

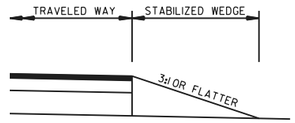
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL
≤ 3"	CENTERLINE	W8-11 AND LANE STRIPING
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND TRAFFIC DRUMS[2]
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[2]
> 6"	EDGE OF TRAVELED 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

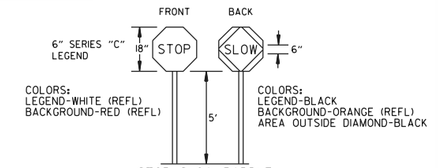
GENERAL NOTES:

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.

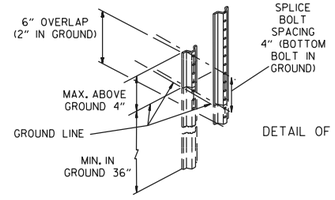


STOP SLOW PADDLE

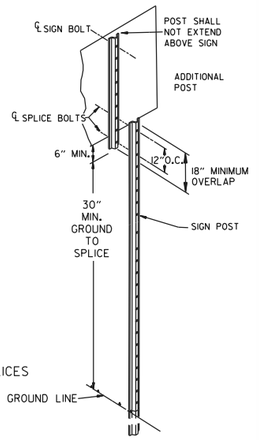
NOTES:
USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-2)

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	DESCRIPTION
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
11-07-19	REVISED NOTE 9, ADDED NOTE 11

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

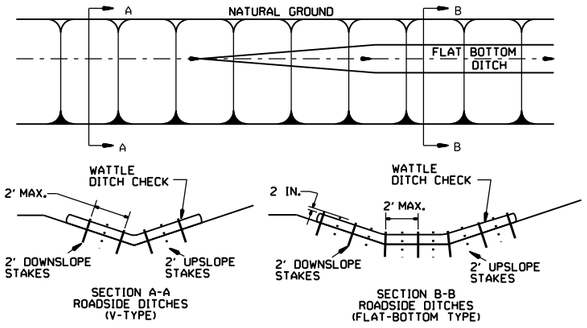
DATE EFFECTIVE
05-22-2025

STANDARD DRAWING

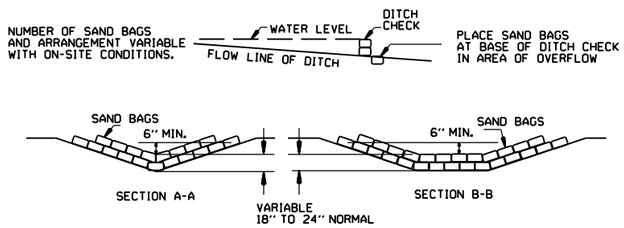
TC-3

GENERAL NOTES

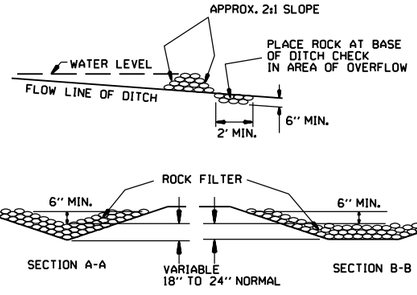
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

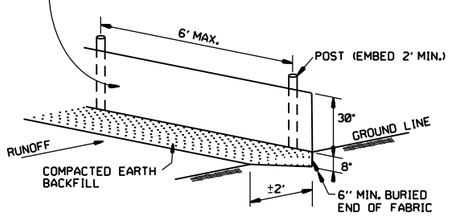


ROCK DITCH CHECK (E-6)

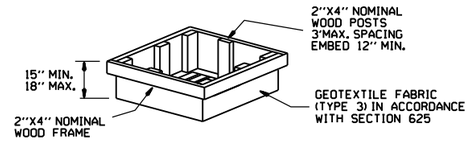
GENERAL NOTES

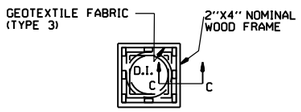
GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

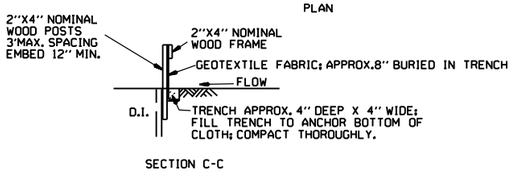
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



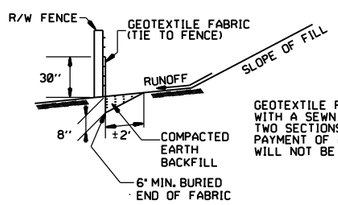
SILT FENCE (E-11)





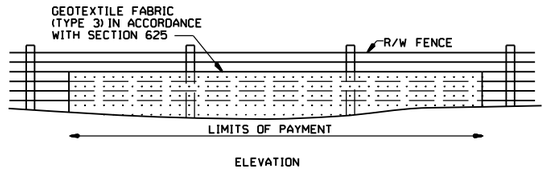


DROP INLET SILT FENCE (E-7)



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.



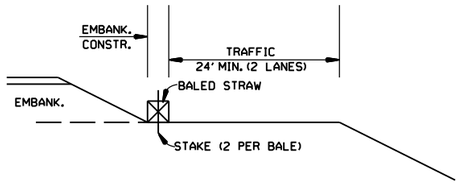
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

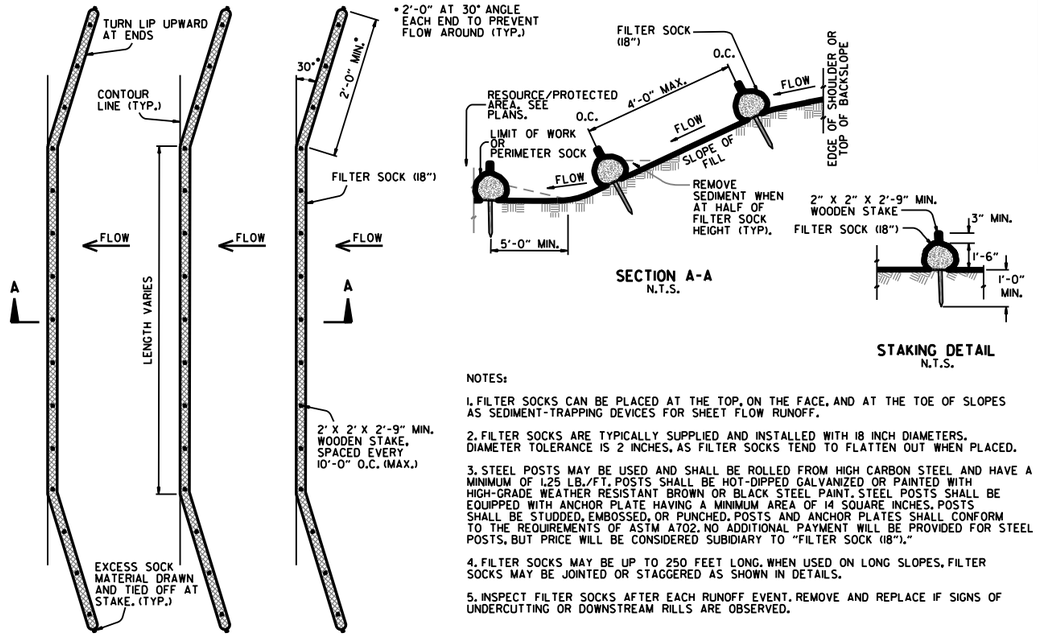
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

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)



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.

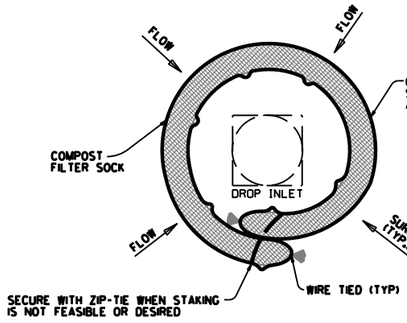
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

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")."

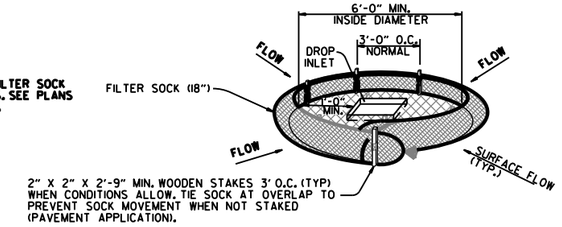
4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

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.

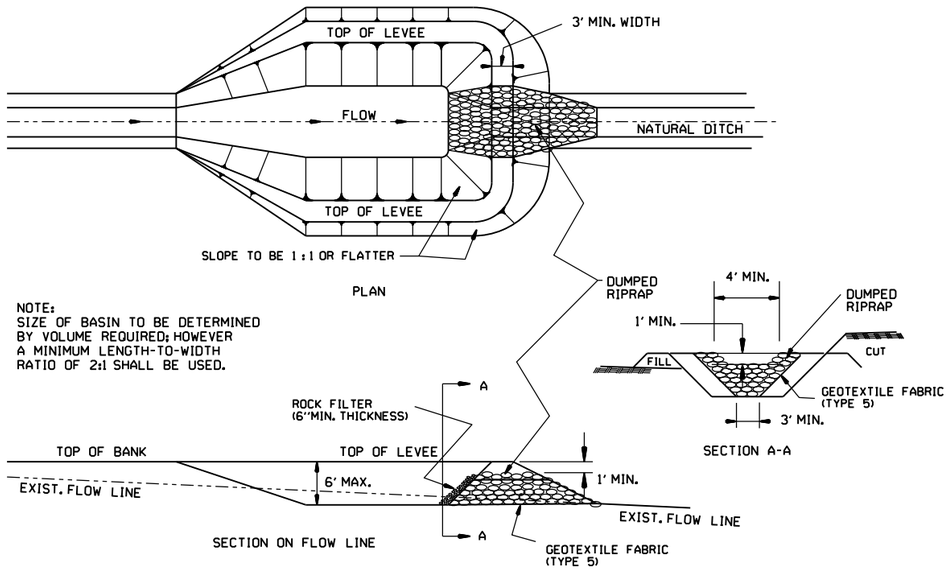
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

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

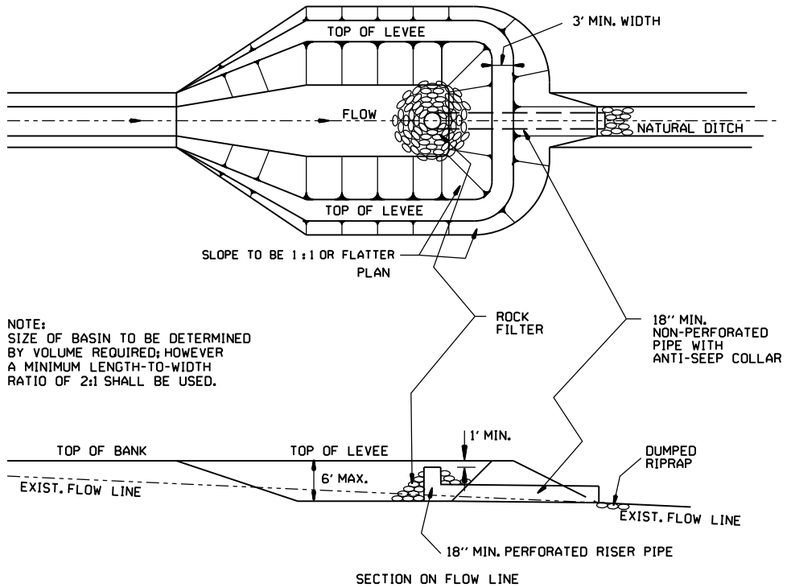
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

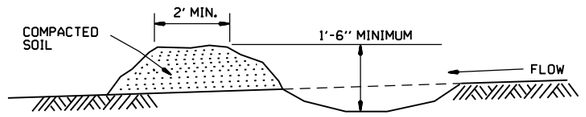
STANDARD DRAWING TEC-1



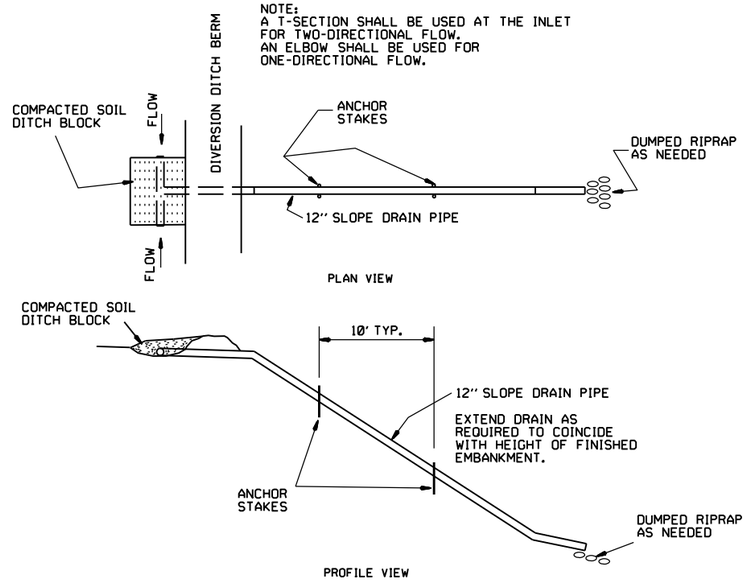
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



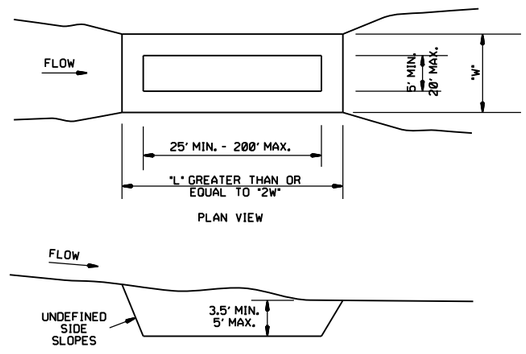
SEDIMENT BASIN WITH PIPE OUTLET (E-10)



DIVERSION DITCH (E-8)



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

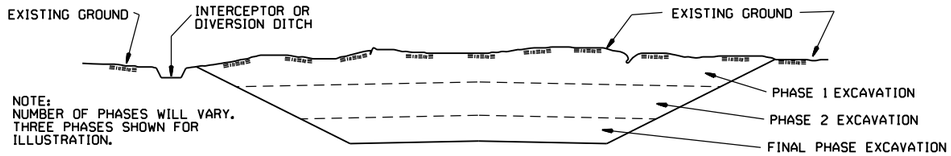
STANDARD DRAWING TEC-2

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



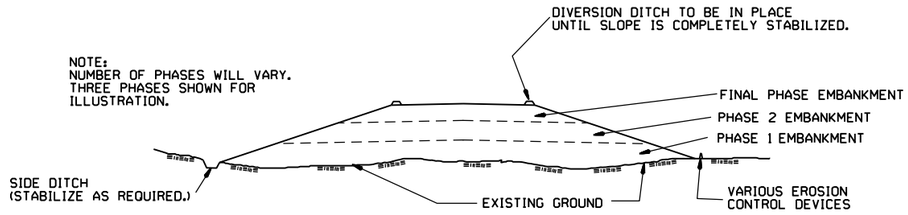
GENERAL NOTE

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

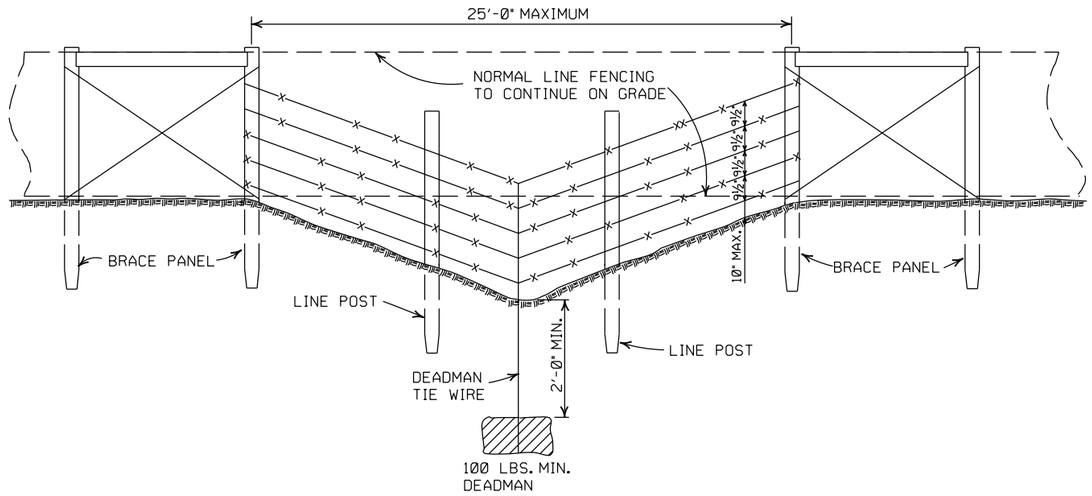
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD 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.

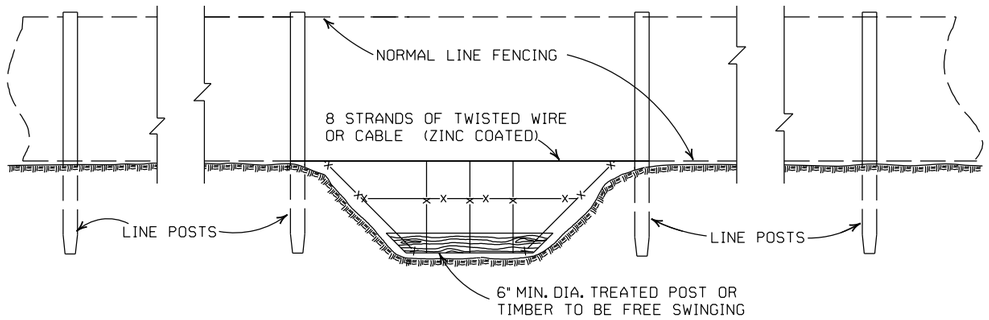
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94
DATE	REVISION	FILMED

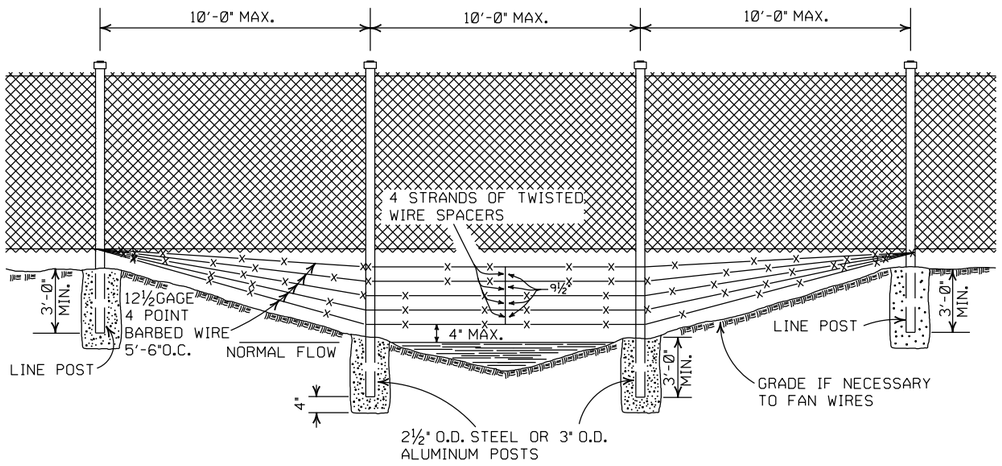
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-3







GENERAL NOTES:

THESE INSTALLATIONS TO BE USED WHERE NORMAL FENCING INSTALLATION WOULD CAUSE THE COLLECTING OF DRIFT IN THE CHANNEL OR THE DEPRESSION WILL NOT PERMIT NORMAL INSTALLATION. INSTALLATIONS WILL BE MADE ONLY WHERE DIRECTED BY THE ENGINEER.

WHEN A FENCE LINE APPROACHES A DITCH, GULLY OR DEPRESSION, THE LAST POST ON LEVEL GROUND SHALL BE PLACED CLOSE ENOUGH TO THE EDGE OF THE DROP OFF THAT THE FENCE MAY BE STRUNG TO THE POST IN THE DEPRESSION WITHOUT TOUCHING THE GROUND.

IN TERRAIN OF SUCH EXTREME IRREGULARITY THAT MINOR GRADING WILL NOT BE FEASIBLE, THE NORMAL FENCE SHALL CONTINUE ON GRADE AND THE GULLIES OR DEPRESSIONS TREATED BY AUXILIARY FENCES AS SHOWN.

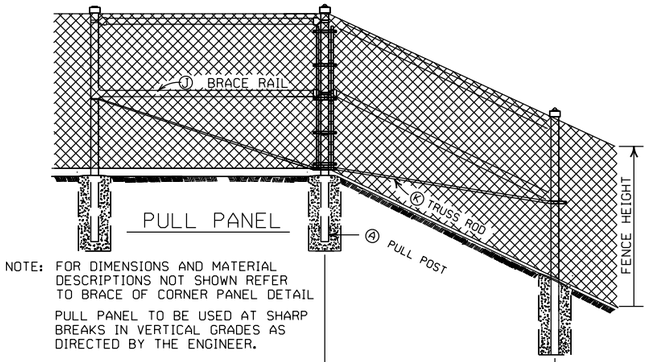
PAYMENT FOR THE TYPE INSTALLATION USED WILL NOT BE MADE DIRECTLY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR WIRE FENCE OR CHAIN LINK FENCE.

DATE	REVISION	FILMED
4-20-79	REVISED TOP RAIL & TENSION WIRE	696-4-20-79
10-2-72	REVISED AND REDRAWN	529-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

WIRE FENCE WATER GAPS

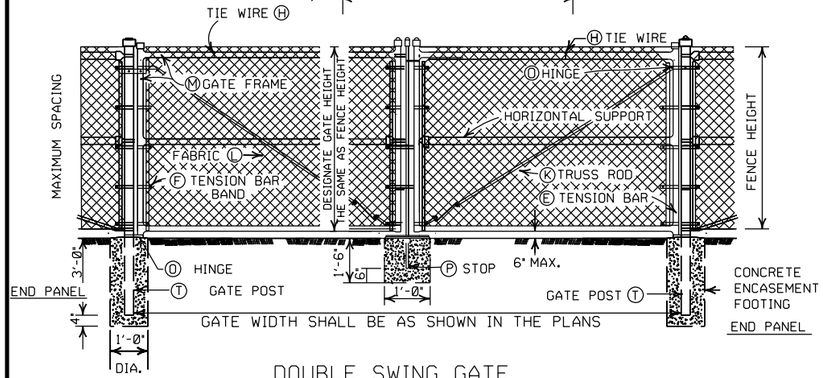
STANDARD DRAWING WF-2



PULL PANEL

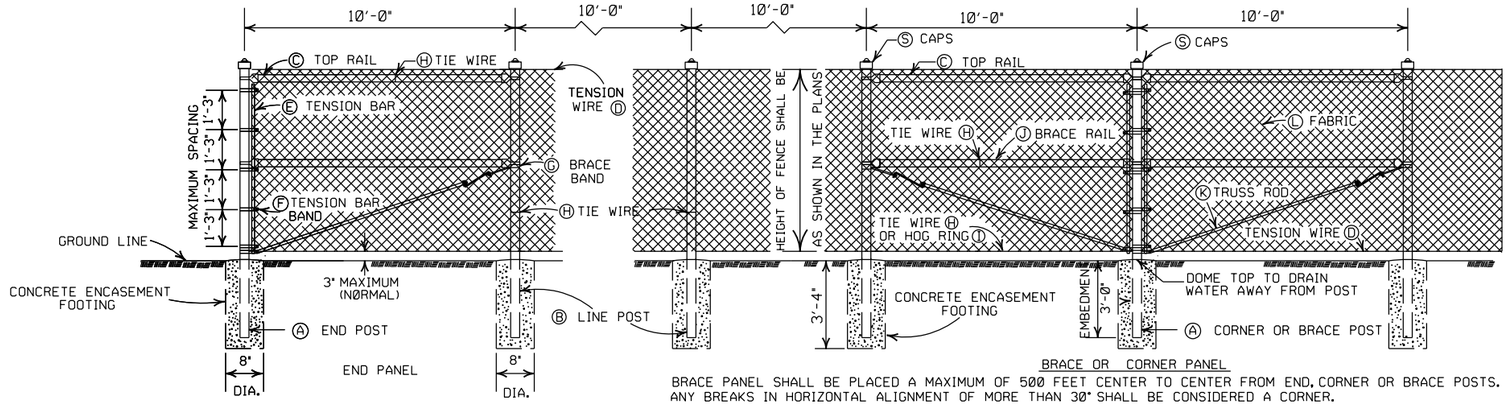
NOTE: FOR DIMENSIONS AND MATERIAL DESCRIPTIONS NOT SHOWN REFER TO BRACE OF CORNER PANEL DETAIL

PULL PANEL TO BE USED AT SHARP BREAKS IN VERTICAL GRADES AS DIRECTED BY THE ENGINEER.



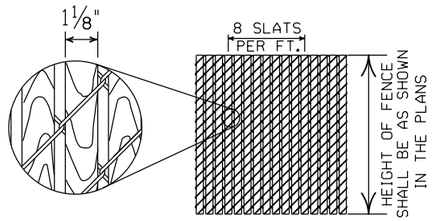
DOUBLE SWING GATE

POST SPACING DETAIL



BRACE OR CORNER PANEL

BRACE PANEL SHALL BE PLACED A MAXIMUM OF 500 FEET CENTER TO CENTER FROM END, CORNER OR BRACE POSTS. ANY BREAKS IN HORIZONTAL ALIGNMENT OF MORE THAN 30° SHALL BE CONSIDERED A CORNER.



1⅛" X ¼" REDWOOD SLATS(LENGTH TO MATCH HEIGHT OF FENCE)

DETAIL OF REDWOOD SLAT INSTALLATION

(WHERE APPLICABLE)

GENERAL NOTES:

(C) CHAIN LINK FENCE BEING PLACED ON PRIVATE PROPERTY SHALL INCLUDE A TOP RAIL. ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER LIN. FT. OF CHAIN LINK FENCE.

(D) TENSION WIRE: SHALL BE SECURED TO ALL TERMINAL, PULL, BRACE OR CORNER POSTS WITH TENSION BAR BANDS.

(J) BRACE RAIL: BRACE RAILS SHALL BE PROVIDED AT ALL TERMINAL, PULL, BRACE OR CORNER POSTS HALFWAY BETWEEN THE TOP RAIL AND GROUND LEVEL WHEN TOPRAIL IS SPECIFIED AND TWELVE INCHES (12") DOWN FROM TOP OF FABRIC WHEN TOP TENSION WIRE IS SPECIFIED. BRACE RAIL SHALL EXTEND FROM SUCH POST TO THE FIRST ADJACENT LINE POST.

(L) FABRIC: SHALL CONFORM TO THE SPECIFICATIONS.

(M) GATE FRAMES: SHALL BE CONSTRUCTED OF TUBULAR MEMBERS ASSEMBLED BY USE OF HEAVY PRESSED STEEL, MALLEABLE FITTINGS OR BY WELDING. ALL GATES SHALL HAVE ONE HORIZONTAL SUPPORT EXTENDING THE WIDTH OF THE GATE AT THE MIDPOINTS OF VERTICAL FRAME MEMBERS. THE COMPLETE FRAME SHALL BE RIGID AND HAVE AMPLE STRENGTH TO BE FREE FROM SAG AND TWIST.

(O) HINGES: SHALL BE OF HEAVY PATTERN, OF ADEQUATE STRENGTH FOR GATE, AND WITH LARGE BEARING SURFACES FOR CLAMPING IN POSITION. THE HINGE SHALL BE OF THE PROPER TYPE TO ALLOW FOR THE DESIGNATED DEGREE OF SWING. THE HINGE SHALL NOT TWIST OR TURN UNDER THE ACTION OF THE GATE. THE GATES SHALL BE CAPABLE OF BEING OPENED AND CLOSED EASILY BY ONE PERSON.

(P) LATCHES AND STOPS: SHALL BE PROVIDED FOR ALL GATES. GATES SHALL HAVE A DROP BAR LATCH. LATCHES SHALL BE ARRANGED FOR LOCKING. THE STOP FOR DROP BAR LATCHES SHALL BE SET IN CONCRETE AND ENGAGE THE PLUNGER OF THE BAR LATCH.

(S) CAPS: ALL POSTS, EXCEPT ROLL FORMED POSTS AND "T" POSTS SHALL BE CAPPED OVER THE EXTERIOR OF THE POST, AND SHALL CONFORM TO ASTM F626.

CONCRETE REQUIRED FOR THE EMBEDMENT OF ALL POSTS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR CHAIN LINK FENCE.

POSTS SHALL BE SPACED EQUIDISTANT ON A MAXIMUM OF 10' CENTERS.

EXCAVATION FOR POSTS: IN OTHER THAN ROCK SHALL BE OF THE DIMENSIONS INDICATED. IF ROCK IS ENCOUNTERED BEFORE REACHING THE REQUIRED DEPTH, THE EXCAVATION SHALL BE CONTINUED TO THE DEPTH INDICATED OR 1'-6" INTO THE ROCK, WHICHEVER IS LESS, AND SHALL BE A MINIMUM OF 8 INCHES IN DIAMETER.

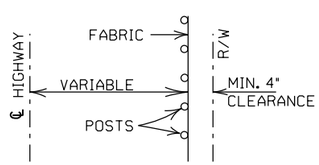
HEIGHT OF FENCE FABRIC	(A) END, PULL, CORNER OR BRACE POST	(B) LINE POSTS SIZE	(B) LINE POSTS TIE SPACING	(C) TOP RAIL SIZE	(C) TOP RAIL TIE SPACING	(C) TOP RAIL MIN. LENGTH	(D) TENSION WIRE SIZE	(D) TENSION WIRE TIE SPACING	(E) TENSION BAR SIZE	(E) TENSION BAR LENGTH	(F) TENSION BAR BAND SIZE	(F) TENSION BAR BAND BOLT SIZE	(F) TENSION BAR BAND SPACING	(G) BRACE BAND SIZE	(G) BRACE BAND BOLT SIZE
6' AND LESS	2½" O.D.	2" O.D.	1 TIE EVERY 1'-2" OF FABRIC HEIGHT	1⅝" O.D.	1 TIE EVERY 2'-0"	10'-0"	7 GAUGE COIL SPRING WIRE	1 TIE EVERY 1'-0"	MIN. OF ⅜" X ¾"	MIN. OF 2" LESS THAN FABRIC HEIGHT	MIN. OF ¾" X 0.074	⅝" X 1¼"	1 BAND AT TOP AND BOTTOM 15" MAX. INTERVAL BETWEEN BANDS	MIN. OF ¾" X 0.105	⅝" X 1¼"
OVER 6' TO 12' INCL.	3 " O.D.	2½" O.D.													

HEIGHT OF FENCE FABRIC	(H) TIE WIRE	(I) HOG RING	(J) BRACE RAIL SIZE	(J) BRACE RAIL TIE SPACING	(K) TRUSS ROD	(L) FABRIC SIZE	(L) FABRIC MESH	(L) FABRIC SELVAGE	(M) GATE FRAME SIZE	(M) GATE FRAME TIE SPACING	(N) HORIZONTAL SUPPORT SIZE	(N) HORIZONTAL SUPPORT TIE SPACING	(O) HINGE TYPE 180° SWING	(T) GATE POST GATE WIDTH 12' AND LESS	(T) GATE POST GATE WIDTH OVER 12' TO 24' INCL.
6' AND LESS	MIN. OF 12 GA. STEEL OR 9 GA. ALUM.	SAME GAUGE AS FABRIC	1⅝" O.D.	1 TIE EVERY 2'-0"	MIN. OF ⅝" ROUND WITH TIGHTNERS AND FITTINGS	9 GA.	2"	KNUCK -ING AND/OR TWIST -ING	2" O.D.	1 TIE EVERY 1'-0"	2" O.D.	1 TIE EVERY 1'-0"	OFFSET	3" O.D.	4" O.D.
OVER 6' TO 12' INCL.														4" O.D.	

NOTE: POST SIZES SHOWN ARE FOR STEEL. WHERE ALUMINUM IS PROVIDED, LINE POSTS SHALL HAVE AN OUT SIDE DIAMETER OF 2½" FOR FENCE HEIGHT OF 6' AND LESS, AN OUTSIDE DIAMETER OF 3" FOR FENCE HEIGHT OF 6' TO 12'. END, PULL, CORNER OR BRACE POSTS SHALL HAVE AN OUTSIDE DIAMETER OF 3" FOR FENCE HEIGHT OF 6' AND LESS; AN OUTSIDE DIAMETER OF 3½" FOR FENCE HEIGHTS OF 6' TO 12'. GATE POSTS WHERE GATE WIDTH IS 12' AND LESS SHALL HAVE AN OUTSIDE DIAMETER OF 3½" FOR FENCE HEIGHT OF 6' AND LESS. ALUMINUM TENSION WIRE SHALL BE 0.192" IN DIAMETER. MINIMUM THICKNESS OF MATERIAL FROM WHICH EXPANSION SLEEVES SHALL BE MADE WILL BE 0.078". POSTS AND RAILS MAY HAVE ANY CROSS-SECTIONAL SHAPE THAT WILL MEET THE SPECIFICATIONS.

OTHER DETAILS APPLY TO BOTH STEEL AND ALUMINUM FENCE.

ALL MISCELLANEOUS FITTINGS AND HARDWARE SHALL MEET THE REQUIREMENTS AND PRODUCTION TOLERANCES AS SET FORTH IN THE SPECIFICATIONS. 9 GAUGE ALUMINUM WIRE SHALL BE ACCEPTABLE FOR TIEING FABRIC TO TUBULAR AND ROLL FORMED MEMBERS OF STEEL FENCE.



INSTALLATION MAY BE MODIFIED AS SHOWN IN THE PLANS

TYPICAL INSTALLATION DIAGRAM

POSTS AND RAILS

SIZE O.D.	GRADE 1 AND ALUMINUM ALLOY O.D. INCHES	WALL THICKNESS	LBS. PER LINEAR FT. STEEL	LBS. PER LINEAR FT. ALUMINUM	GRADE 2 O.D. INCHES	WALL THICKNESS	LBS. PER LINEAR FT.
1⅝	1.660	0.140	2.27	0.786	1.660	0.111	1.84
2	1.900	0.145	2.72	0.940	1.900	0.120	2.28
2½	2.375	0.154	3.65	1.264	2.375	0.130	3.11
3	2.875	0.203	5.79	2.004	2.875	0.160	4.64
3½	3.500	0.216	7.58	2.621	3.500	0.160	5.71
4	4.000	0.226	9.11	3.151	4.000	0.160	6.56

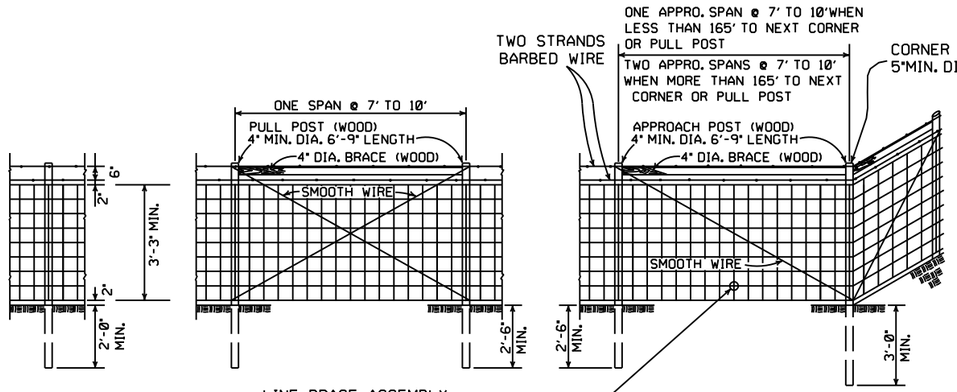
TOLERANCES ON DIMENSIONS AND WEIGHTS ACCORDING TO AASHTO M 181

DATE	REVISION	FILMED
11-17-10	REVISED TRUSS ROD	
12-10-09	REVISED POSTS & RAILS TABLE	
5-21-09	ADDED TABLE & GEN. NOTE (C)	
8-22-02	REVISED NOTES, REMOVED TABLE, & REMOVED FENCE ALTERNATE	
4-3-97	REVISED BRACE RAIL NOTE	
10-18-96	REVISED AASHTO & ASTM REF.	
11-3-94	REVISED NOTE (L)	
10-1-92	DELETED ALTERNATE POST	10-1-92
8-15-91	DELETED ROLL FORMED POST DETAIL & ADDED NOTE	8-15-91 8-15-91
11-30-89	DELETED CLASS CONCRETE	11-30-89
11-17-88	REVISED O.D. SIZES	668-11-17-88
10-30-87	GENERAL REVISIONS	548-10-30-87
4-20-79	REVISED TOP RAIL & TENSION WIRE	695-4-20-79
10-2-72	REVISED AND REDRAWN	530-10-2-72

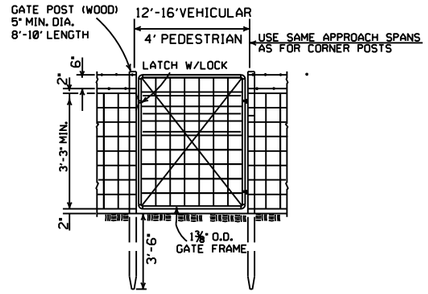
ARKANSAS STATE HIGHWAY COMMISSION

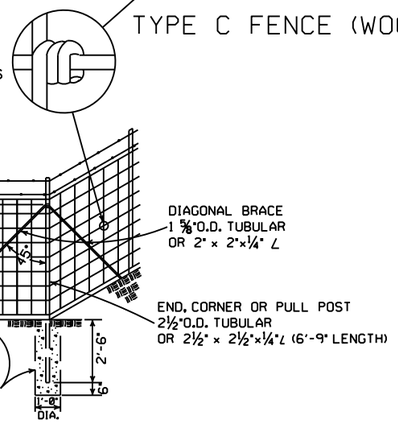
CHAIN LINK FENCE

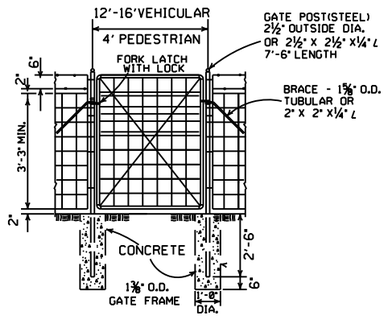
STANDARD DRAWING WF-3



TYPE C FENCE (WOOD POSTS)

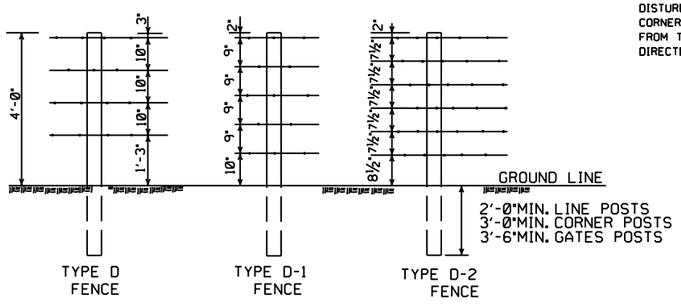




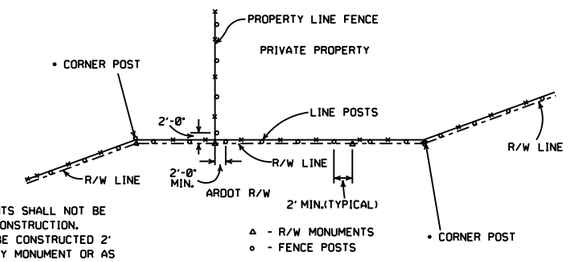


NOTE: STEEL LINE POSTS SHALL BE 6'-6" MINIMUM LENGTH.

TYPE C FENCE (STEEL POSTS)

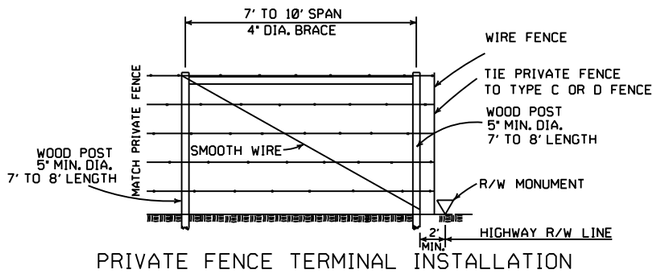


NOTE: SPACING AND SIZE (EXCEPT LENGTH) OF POSTS, APPROACH SPANS, PULL POST ASSEMBLIES, AND CORNER BRACING FOR TYPE D FENCE SHALL CONFORM TO TYPE C FENCE. USE GALVANIZED STAPLES ON WOOD POSTS AND APPROVED FASTENERS ON STEEL POSTS.



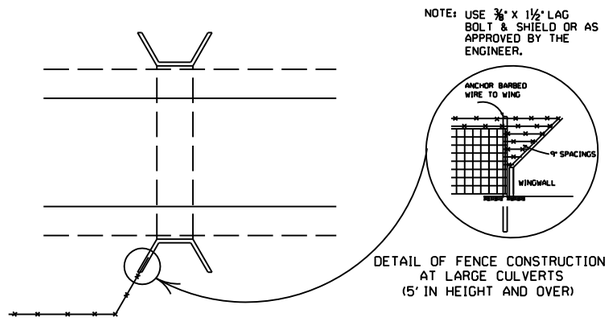
• NOTE: RIGHT-OF-WAY MONUMENTS SHALL NOT BE DISTURBED BY FENCE CONSTRUCTION. CORNER POSTS SHALL BE CONSTRUCTED 2' FROM THE RIGHT-OF-WAY MONUMENT OR AS DIRECTED BY THE ENGINEER.

RIGHT-OF-WAY FENCE LOCATION

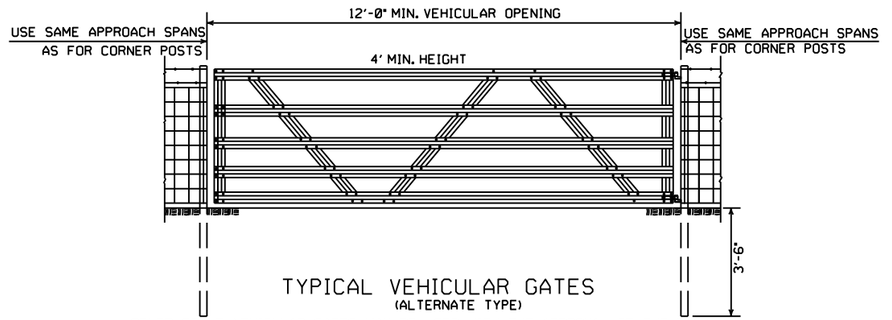


PRIVATE FENCE TERMINAL INSTALLATION

WHERE EXISTING FENCE CONSISTS OF STEEL POSTS, USE END POST ASSEMBLY AS SHOWN IN TYPE C FENCE OR OTHER END POST ASSEMBLY AS APPROVED BY THE ENGINEER.



DETAIL OF FENCE CONSTRUCTION AT LARGE CULVERTS (5' IN HEIGHT AND OVER)



TYPICAL VEHICULAR GATES

(ALTERNATE TYPE)

OTHER STYLE VEHICULAR GATES MAY BE USED WITH THE APPROVAL OF THE ENGINEER. THE METHOD OF SECURING GATE (LATCH AND/OR LOCK)SHALL MEET THE APPROVAL OF THE ENGINEER.

GENERAL NOTES:

STEEL LINE POSTS SHALL BE PAINTED OR GALVANIZED. TUBULAR END, CORNER, PULL, OR DIAGONAL BRACES MUST CONFORM TO THE DIMENSIONS AND WEIGHTS SPECIFIED ON STANDARD DRAWING WF-3 (CHAIN LINK). APPROVED ALTERNATES ARE ACCEPTABLE.
AN ACCEPTABLE TOLERANCE IN LENGTH OF TUBULAR OR WOODEN POSTS SHALL BE - 1" TO +2".
TUBULAR POSTS MUST BE PAINTED OR GALVANIZED.

THE CONTRACTOR SHALL FURNISH AT LEAST 25% OF TIMBER LINE POSTS OF 7 FOOT LENGTHS IN ORDER TO PROVIDE SUFFICIENT SET IN SOFT GROUND OR SMALL DEPRESSIONS.

DRIVEWAY GATES, EITHER SINGLE 12' TO 16' OR DOUBLE 6' TO 8' OPENING 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 OF MAINTENANCE EQUIPMENT. LOCATION OF GATES TO BE SHOWN ON 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 THE 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 SUFFICIENT, THE FENCE SHALL BE TERMINATED WITH CROSS CONNECTIONS AND END POSTS ADJACENT TO BRIDGE ABUTMENTS OR CULVERT WINGWALLS.

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 WIRES A MINIMUM OF 4 TIMES FOR EACH WIRE LOOP.

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.

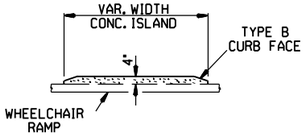
STAPLE AT LEAST TOP, BOTTOM AND ALTERNATE WIRES OF WOVEN FABRIC FOR WOOD LINE POSTS.

DATE	REVISION	FILMED
8-22-02	REVISED GENERAL NOTES	
10-18-96	REVISED AASHTO	
11-22-95	REVISED R-O-W LOCATION DETAIL	
6-2-94	REVISED BARB WIRE AND ADDED CORNER POST NOTES	6-2-94
8-5-93	REVISED R/W INSTALLATION FENCE	8-5-93
10-1-92	ADDED STAPLE NOTE	10-1-92
8-15-91	ADDED TYPE D-2 FENCE	8-15-91
11-30-89	DELETED CLASS CONCRETE	11-30-89
7-15-88	ADDED SPLICE NOTE	700-7-15-88
10-30-87	GENERAL REVISIONS	549-10-30-87
11-1-84	MAX. POST SPACING MIN. WIRE GAUGE	507-11-1-84
1-4-83	MIN. DIA. LINE POST	648-1-4-83
3-2-81	TOLERANCE FOR POST LENGTH	722-3-2-81
12-1-72	ADDED D-1 & FENCE INSTALLATION	564-12-1-72
10-2-72	REVISED AND REDRAWN	540-10-2-72

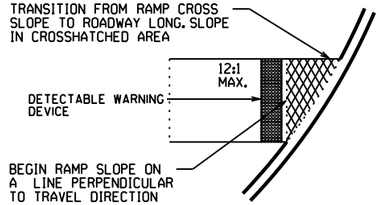
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WIRE FENCE TYPE C AND D

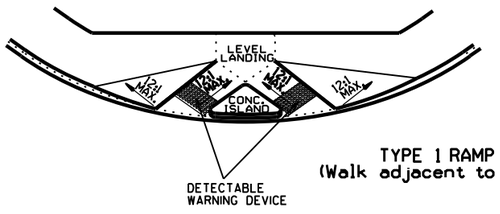
STANDARD DRAWING WF-4



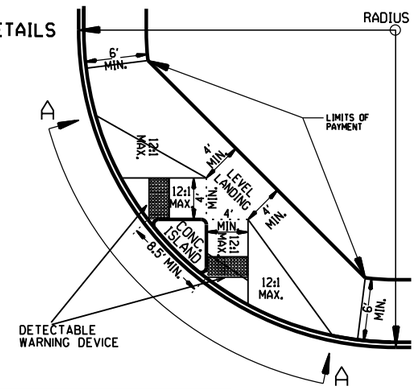
CONCRETE ISLAND DETAIL

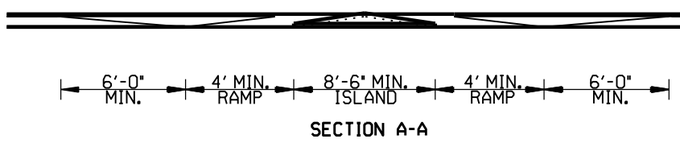


SLOPE TRANSITION DETAILS



TYPE 1 RAMP
(Walk adjacent to curb)

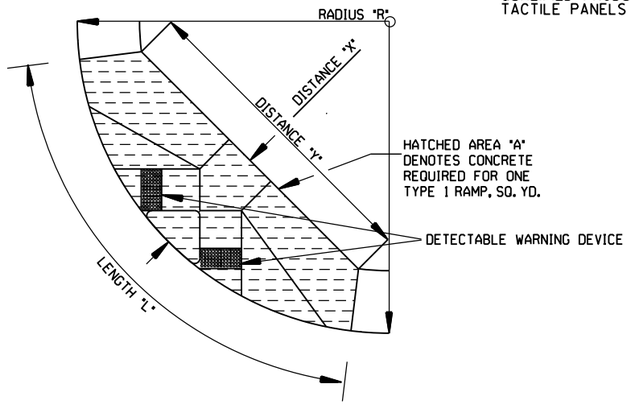




SECTION A-A

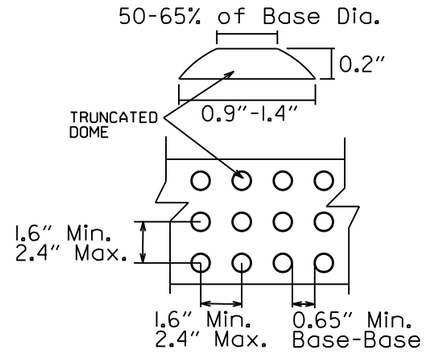
TYPE 1 RAMP DIMENSIONS AND QUANTITIES

RADIUS "R" FEET	DISTANCE "X" FEET	DISTANCE "Y" FEET	LENGTH "L" FEET	RAMP AREA "A" SQ. YD.
15	11.67	18.82	32.18	26.21
20	11.52	22.28	35.46	30.07
25	11.43	26.60	38.77	33.80
30	11.37	30.26	40.93	36.90
35	11.33	33.51	43.11	39.77
40	11.30	36.45	45.26	42.45
45	11.27	39.16	47.34	44.97
50	11.25	41.69	49.36	47.35
55	11.24	44.07	51.31	49.63
60	11.22	46.33	53.21	51.80



GENERAL NOTES FOR DETECTABLE WARNING DEVICES

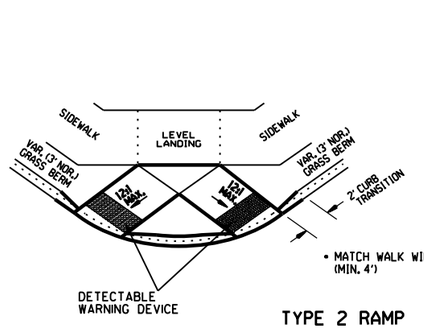
THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS 6 TO 8 INCHES FROM THE FACE OF THE CURB.
TRUNCATED DOMES IN THE DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS OF THE GEOMETRIC CONFIGURATION SHOWN.
DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
DETECTABLE WARNING DEVICE SHALL BE ON THE ARDOT QUALIFIED PRODUCTS LIST FOR CAST-IN-PLACE TACTILE PANELS (ADA DETECTABLE WARNING).



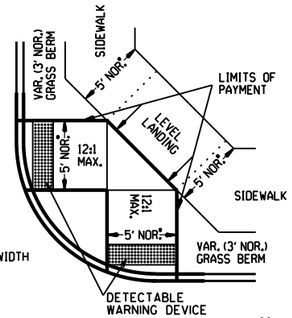
DETECTABLE WARNING DEVICE DETAIL

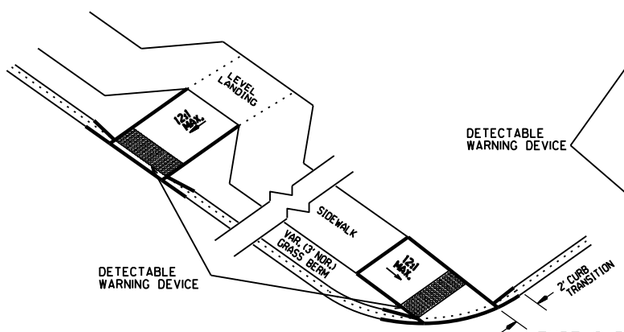
GENERAL NOTES:

IN NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED ON THE PLANS, WHEELCHAIR RAMPS ARE TO BE PROVIDED AT ALL CORNERS OF CURBED STREET INTERSECTIONS AND MID-BLOCK CROSSWALK LOCATIONS.
IN ALTERATIONS WHEELCHAIR RAMPS ARE TO BE PROVIDED AT CURBED STREET INTERSECTIONS WITH PEDESTRIAN TRAFFIC AND MID-BLOCK CROSSWALK LOCATIONS.
THE LENGTH OF THE RAMP SHALL BE SUCH THAT THE SLOPE DOES NOT EXCEED 12:1. THE SURFACE TEXTURE OF THE RAMP SHALL CONFORM TO A CLASS 6 FINISH ACCORDING TO SECTION 802.19.
THE NORMAL GUTTER GRADE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.
ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
THE MINIMUM THICKNESS OF THE RAMP, WALK, & LANDING SHALL BE 4".
THE MINIMUM WIDTH OF THE RAMPS SHALL BE THE WALK WIDTH OR 36", WHICHEVER IS GREATER.
RAMPS SHALL BE MODIFIED AS NECESSARY TO INSURE THAT THEY ARE PARALLEL TO A LINE DRAWN FROM THE CENTER OF ONE RAMP TO THE CENTER OF THE RAMP ON THE OPPOSITE SIDE OF THE INTERSECTION.
THE DIMENSIONS AND QUANTITIES SHOWN ON THIS DRAWING ARE FOR A 90° INTERSECTION ONLY. DIMENSIONS AND QUANTITIES FOR SKEWED INTERSECTIONS WILL VARY, AND ARE TO BE DETERMINED BY THE ENGINEER.

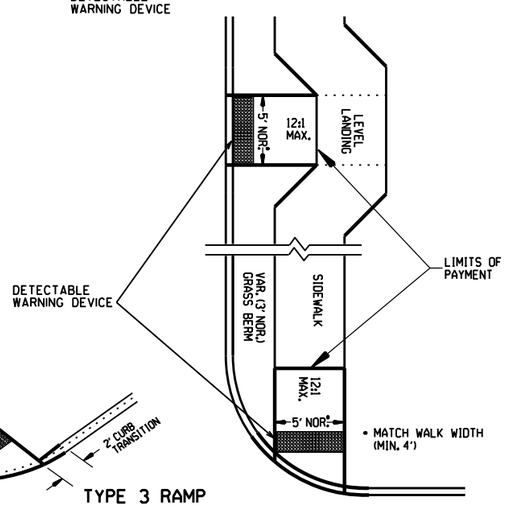


TYPE 2 RAMP

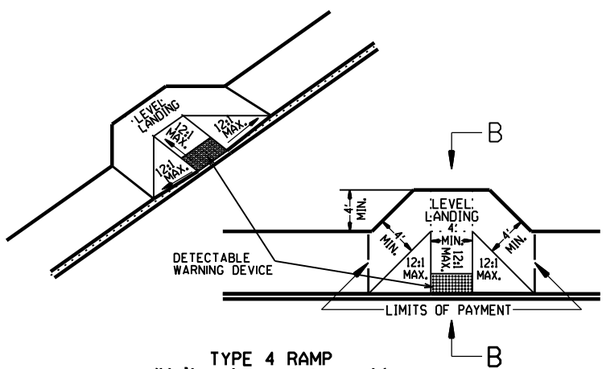




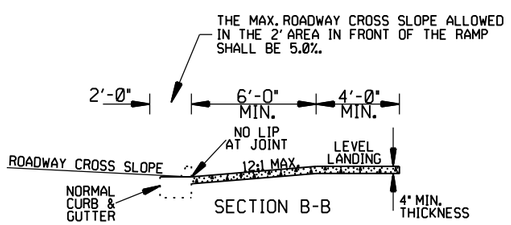
TYPE 3 RAMP



NOTE:
THE CROSS SLOPE OF THE RAMPS, LEVEL LANDINGS, AND SIDEWALKS SHALL NOT EXCEED 2.0% UNLESS REQUIRED TO MATCH STREET LONGTITUDINAL GRADE.



TYPE 4 RAMP
(Walk adjacent to curb)



SECTION B-B

RAMP SELECTION CRITERIA

FIRST CHOICE	TYPE 1	CORNER LOCATIONS WITH THE WALK ADJACENT TO THE CURB (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 2	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE INSUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 3	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE SUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 4	TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS).
SECOND CHOICE	TYPE 5	TANGENT LOCATIONS (ALTERATIONS ONLY).
THIRD CHOICE	TYPE 6	CORNER LOCATIONS (ALTERATIONS ONLY). THIS RAMP MAY BE USED ONLY IF THE TYPE 5 RAMPS CANNOT BE PLACED AT THE ENDS OF THE RADIUS.
FOURTH CHOICE		IF SITE CONSTRAINTS PREVENT THE CONSTRUCTION OF ANY OF THE TYPES LISTED, THEN AND ONLY THEN CAN THE 12:1 MAX. SLOPE ON THE RAMP BE EXCEEDED TO PROVIDE ACCESS TO THE STREET LEVEL (ALTERATIONS ONLY). THE SLOPE CAN BE STEEPENED TO A 10:1 MAX. FOR A MAX. LENGTH OF 5' OR A 8:1 MAX. FOR A MAX. LENGTH OF 2'. SLOPES STEEPER THAN 8:1 ARE NOT ALLOWED UNDER ANY CIRCUMSTANCES.

NOTE: IN ALTERATIONS, THE SELECTION OF THE TYPE OF WHEELCHAIR RAMP TO BE CONSTRUCTED SHALL BE BASED ON THE AMOUNT OF RIGHT-OF-WAY AVAILABLE, AND ON THE PRESENCE OF OTHER SITE CONSTRAINTS (UTILITIES, BUILDINGS, ETC.). THE TABLE ABOVE LISTS THE ORDER IN WHICH THE RAMPS ARE TO BE CONSIDERED.

AN ALTERATION IS DEFINED AS A PROJECT THAT CHANGES OR AFFECTS THE USE OF A PEDESTRIAN PATHWAY (OVERLAYS, SIGNALIZATION PROJECTS, ETC.) BUT DOES NOT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY. ALL PROJECTS THAT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY WILL USUALLY BE CONSIDERED NEW CONSTRUCTION FOR THE PURPOSES OF THE CHART ABOVE.

DATE	REVISION	DATE FILM
11-10-05	REVISED TO NEW SIDEWALK POLICY	
10-9-03	REVISED GEN. NOTES & ADDED NOTE	
4-10-03	REV. DETECTABLE WARNING DEVICES	
8-22-02	ADD DETECTABLE WARNING DEVICES	
3-30-00	ADD.SLOPE TRANS. & REV. ISL. DIMS.	
11-18-98	REVISED NOTES	
8-12-98	REVISED TEXTURE	
7-02-98	REDRAWN & REISSUED	
10-18-96	CORRECTED DIMENSIONS	10-18-96
5-24-90	FROM8#TO12#MAX.SLOPES	5-24-90
7-15-88	ADJUSTED MAX. SLOPE	652-7-15-88
7-14-88	INCLUD."CONC. ISLD."IN PAY ITEM	------
6-02-76	ISSUED-P.H.D.	299-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS

STANDARD DRAWING WR-1