

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4-6-2001				6	ARK.			
						JOB NO.	B60106	50
							Remodeling Dtls.	42233

BAR LIST (ONE END BENT)

Mark	No. Req'd.	Length	Pin Dia.	Bending Diagrams (Dimensions are out to out of bars.)
B401	28	1'-10"	STR.	
B402	2	27'-8"	STR.	
B403	4	3 1/2'	3"	
B404	8	2'-7"	STR.	
B405	4	1'-2"	STR.	
B406	12	2'-2"	3"	
B407	4	2'-8"	STR.	

GENERAL NOTES

Governing specifications are the Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, (1996 edition), with applicable supplemental specifications and special provisions.

All structural steel shall be AASHTO designation M270, Gr. 50W unless otherwise noted and shall be paid for at the unit price per pound bid for "Structural Steel (M270, Gr. 50W), M270, Gr. 50W steel shall not be painted. All exposed surfaces to be cleaned in accordance with subsection 807.84(e) of the Standard Specifications.

All welding to be performed by a certified welder approved by the Engineer. All welding shall conform to the current AASHTO/AWS D15 Welding Code.

New backwall channels shall be beveled 3/8" at base of the web to facilitate a bevel weld between the channel and the existing embedded wall angle.

Structural steel pedestals shall be seated in accordance with subsection 807.66 of the Standard Construction Specifications.

Contractor shall provide new high strength bolts, washers, and nuts to connect existing shoes to new build ups.

Anchor bolt extension shall be ASTM A36 and galvanized. Repair damaged galvanized surfaces in accordance with Subsection 807.88.

Bearing pads shall conform to the requirements of subsection 807.15(b).

The Contractor shall field verify anchor bolt locations and plate dimensions prior to fabrication.

All concrete shall have a minimum 28 day compressive strength f'c = 3500 psi. Concrete shall be poured in the dry and all exposed corners to be chamfered 3/4" unless otherwise noted. The concrete in the backwall should be a rapid set mix design to facilitate traffic handling, see SP JOB B60106 "FAST SETTING CEMENT".

Concrete in the backwall shall obtain a minimum compressive strength of 1200 psi before traffic is allowed on it.

All reinforcing steel shall conform to AASHTO M31 or M53, Grade 60 (yield strength = 60,000 psi.)

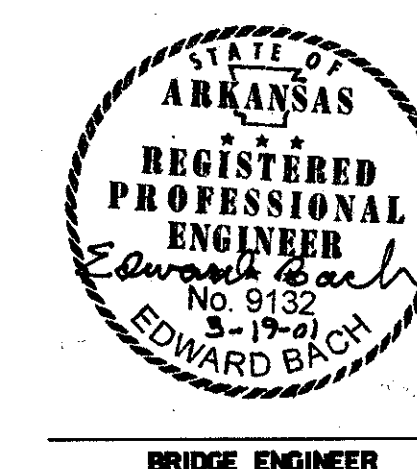
Loads to determine Jack capacities can be found on the following sheets:

Bridge (3708) - 42238 thru 42242

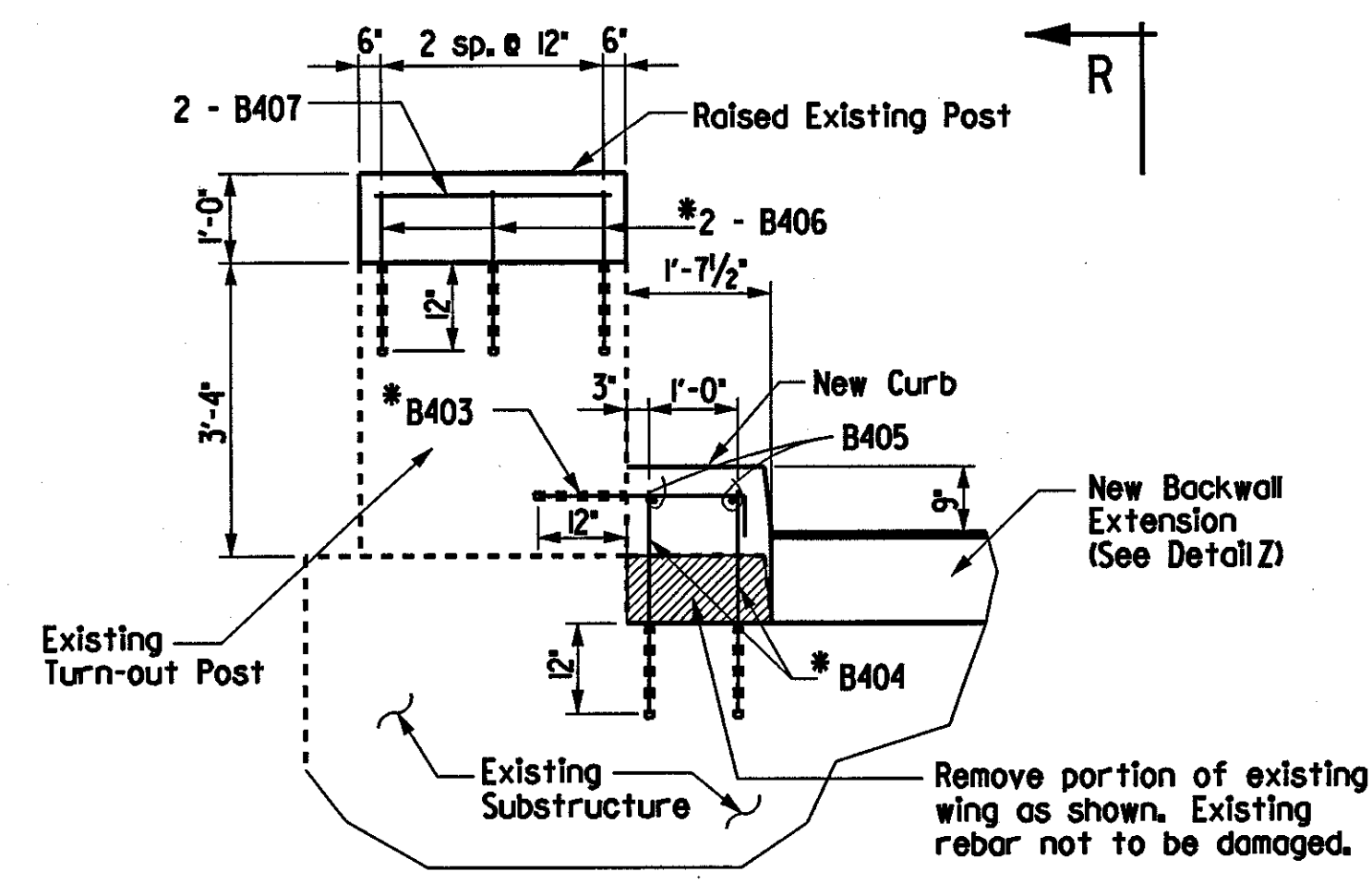
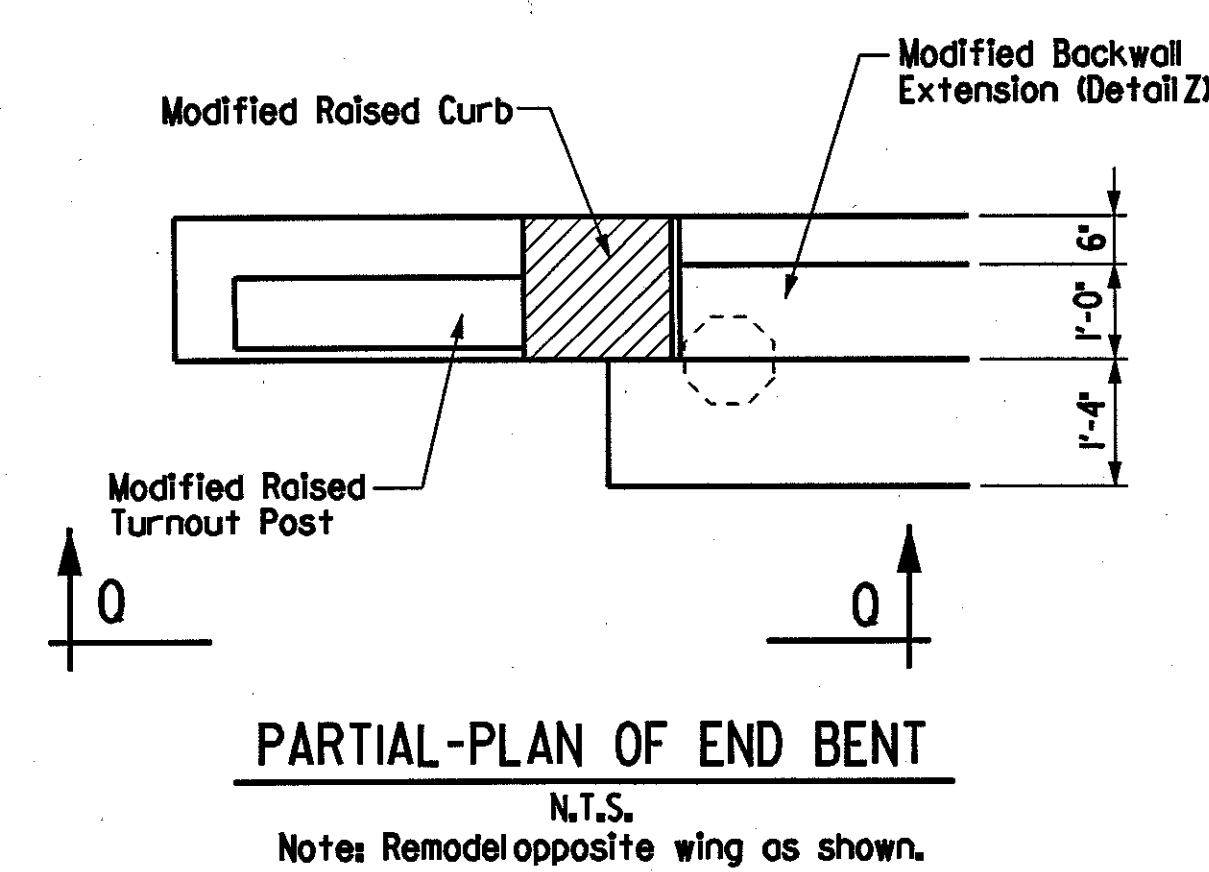
Sheets from the existing bridge plans have been included for information purposes only. All information required to complete the work should be field verified by the Contractor.

Revised Weld, Removed Note CPB 4-6-2001

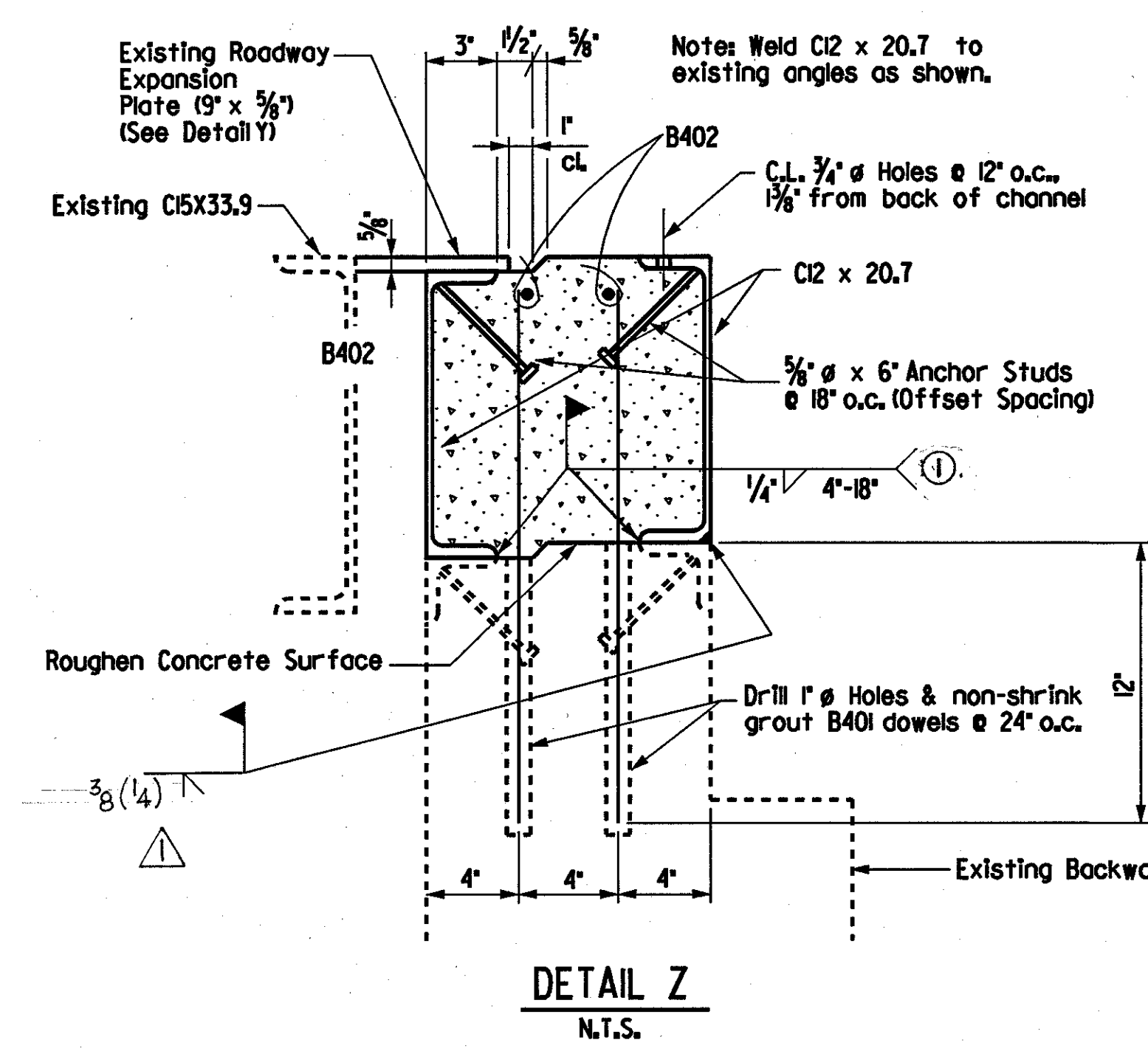
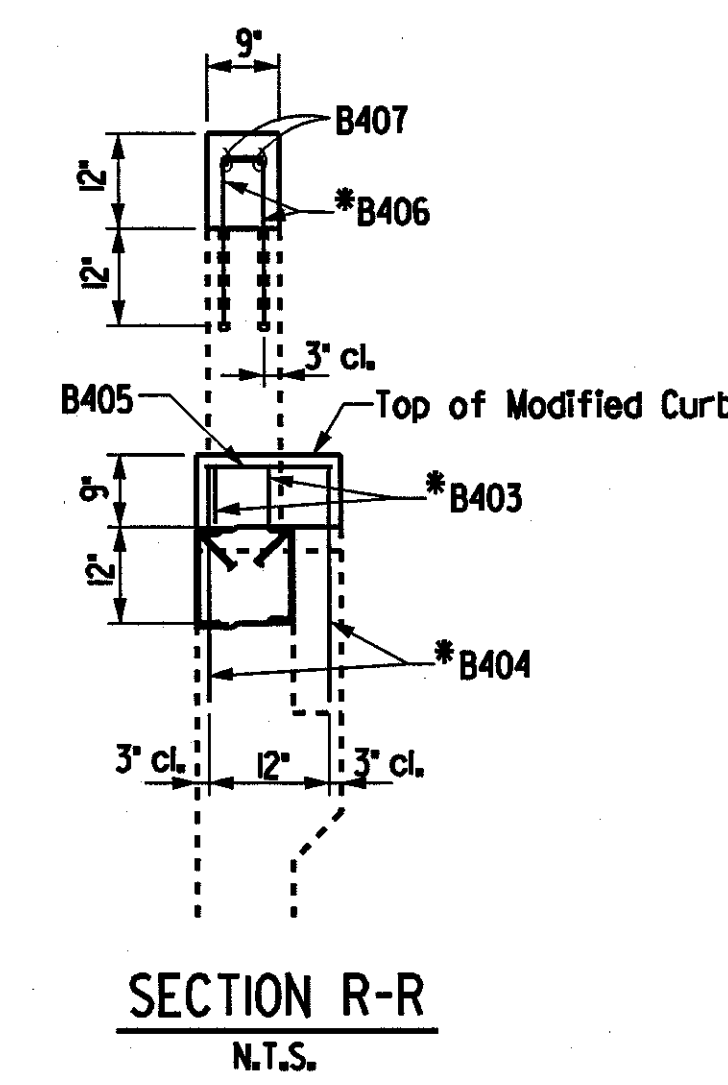
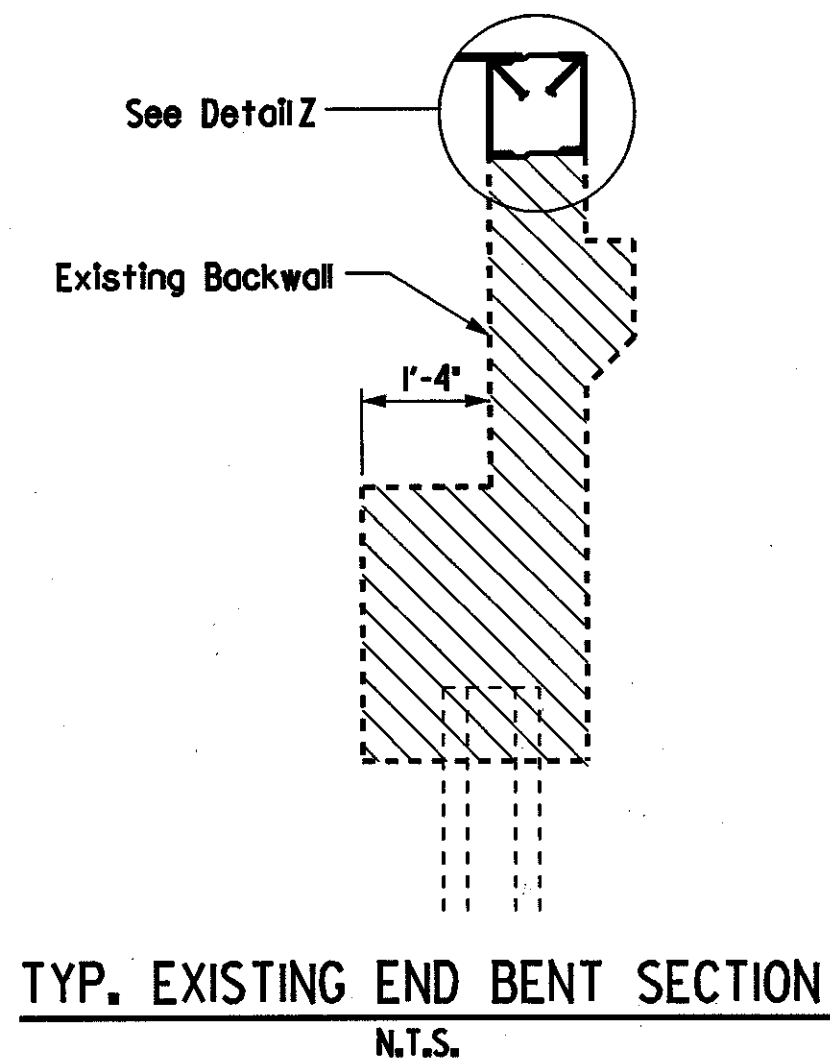
SHEET 1 OF 2
 REMODELING DETAILS FOR BRIDGE NO. 3708
 CARLISLE - EAST(F)
 LONOKE & PRAIRIE COUNTIES
 ROUTE 1-40 SEC. 41 & 42
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.



DRAWN BY: TAR DATE: JAN. 01 FILENAME: dd60106.dl
 CHECKED BY: EMB DATE: JAN. 01 SCALE: N.T.S.
 DESIGNED BY: BCG DATE: JAN. 01
 BRIDGE NO. 03708 DRAWING NO. 42233



*Note: No. 4 bars shall be drilled & grouted 12" into existing concrete using 1" holes and OPL approved non-shrink grout. Drilling and grouting of No. 4 dowels to be considered subsidiary to the Item "Modification of Existing Bridge Structure."

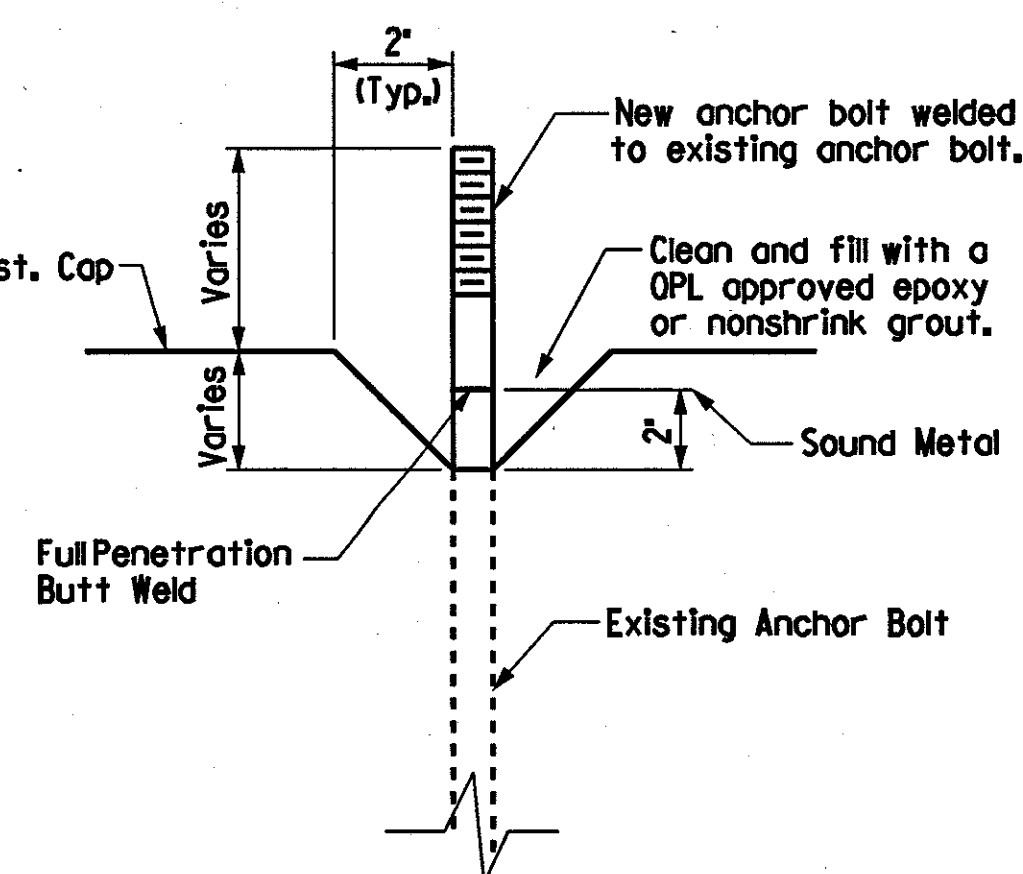
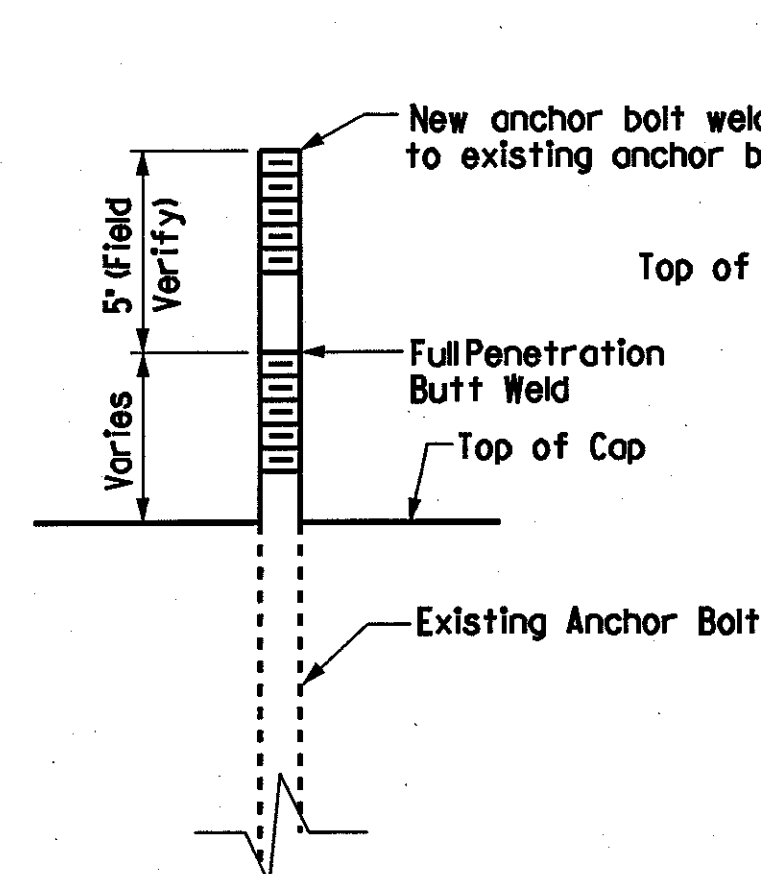
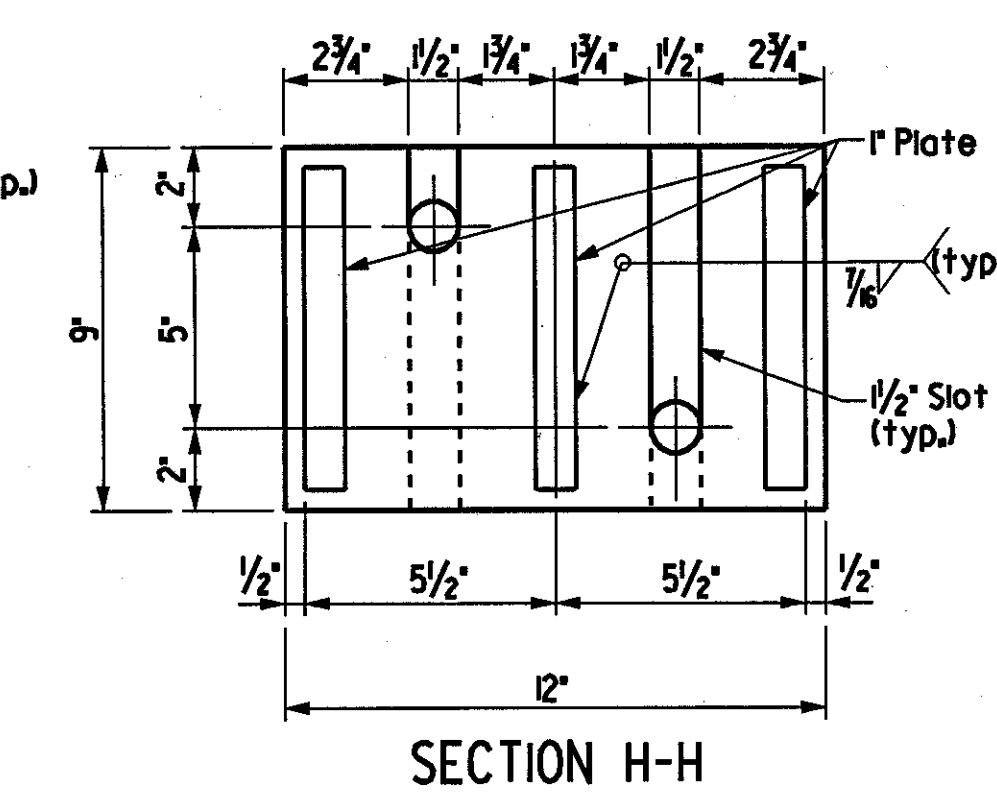
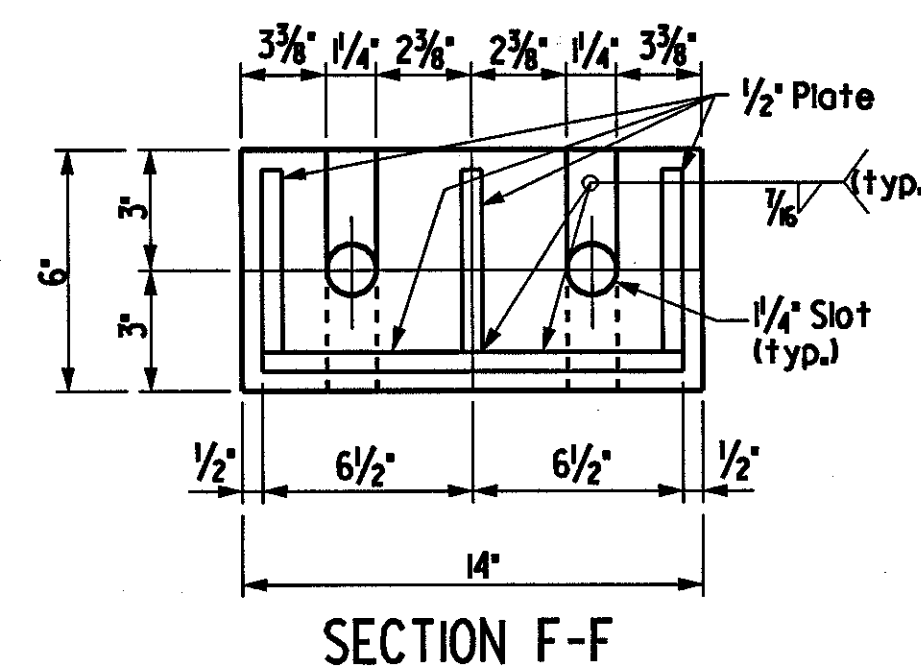
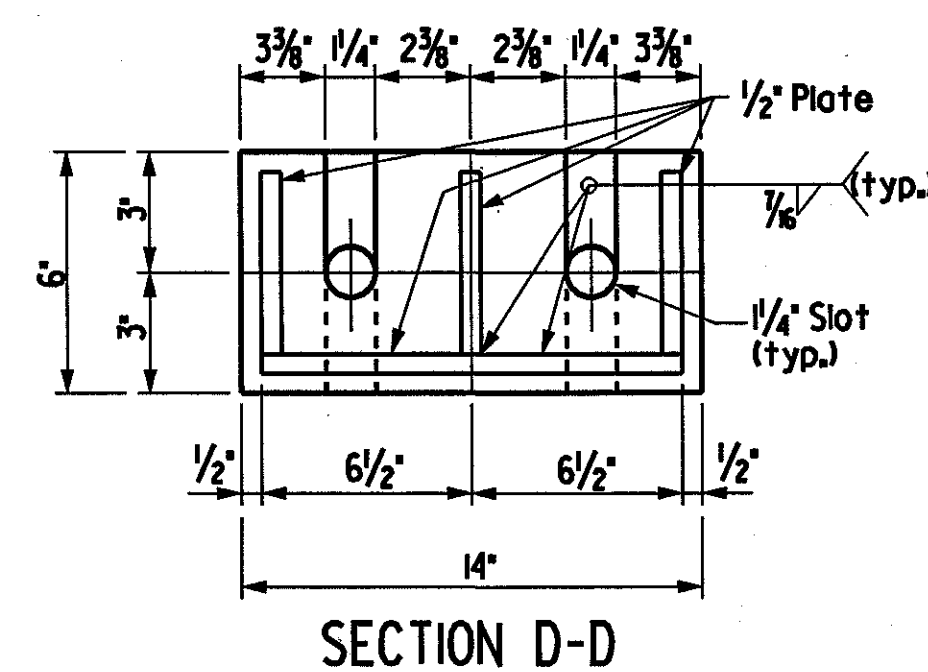
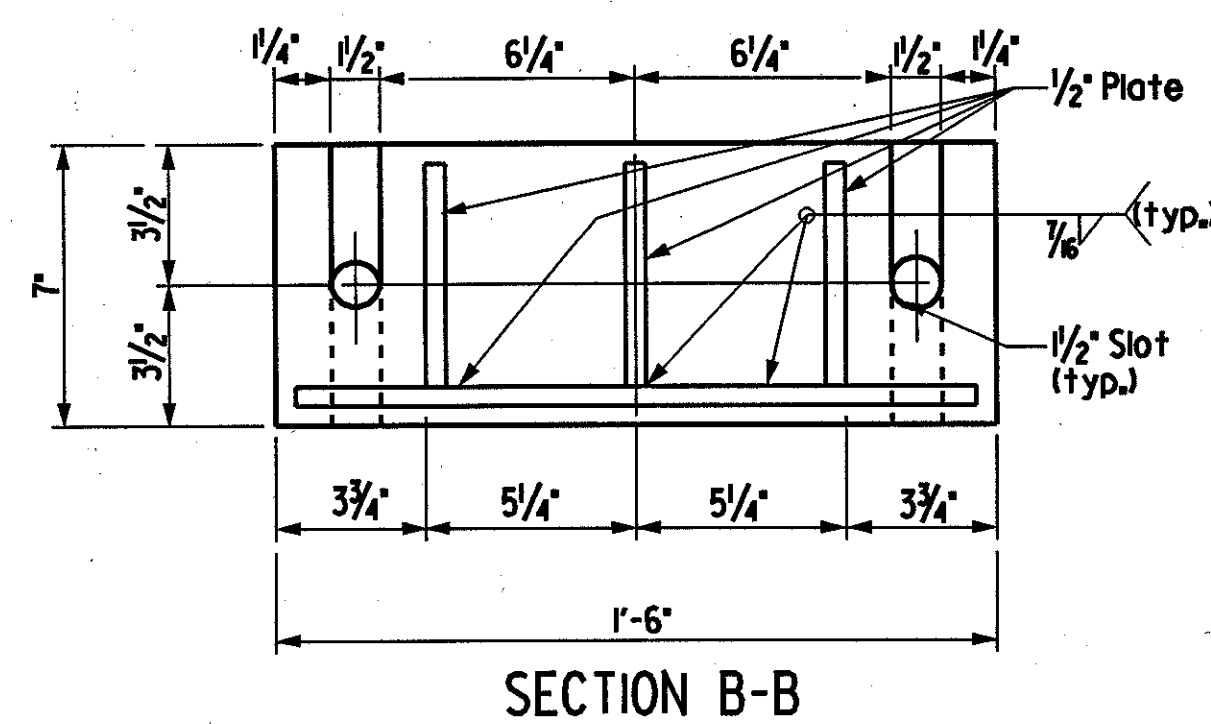
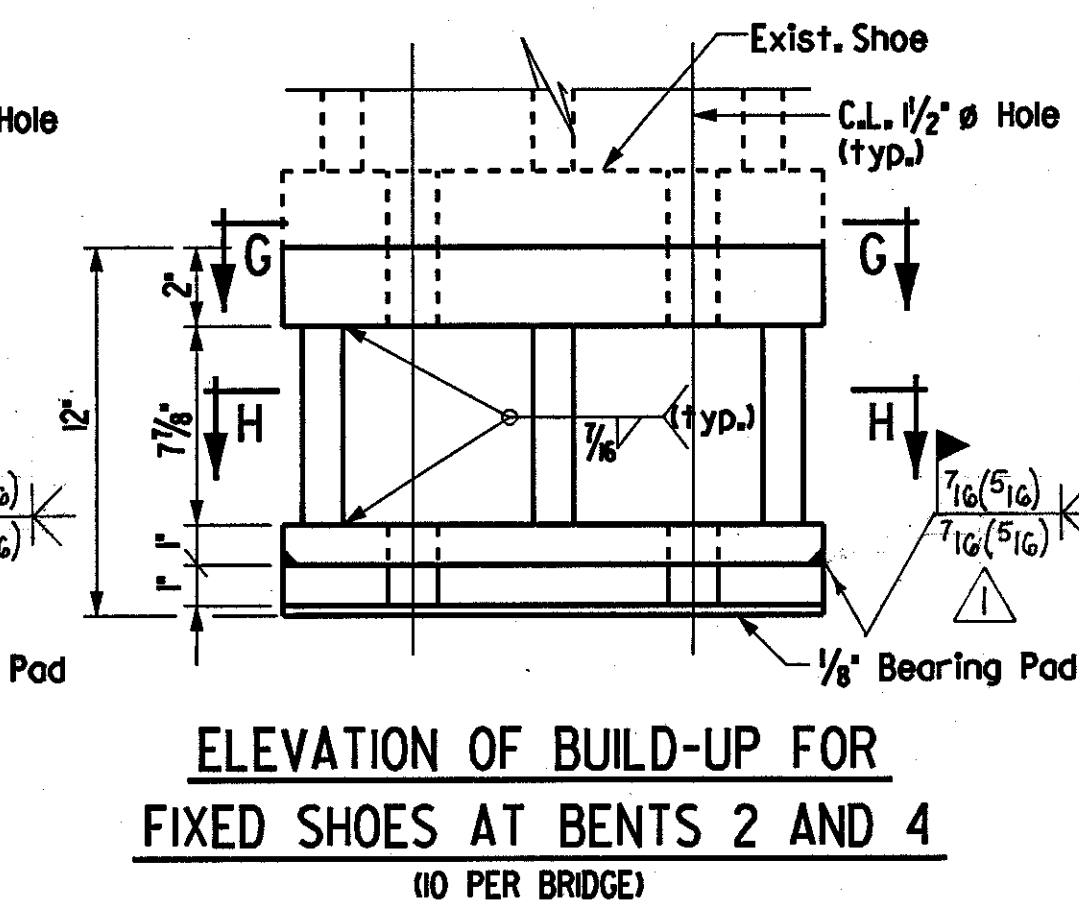
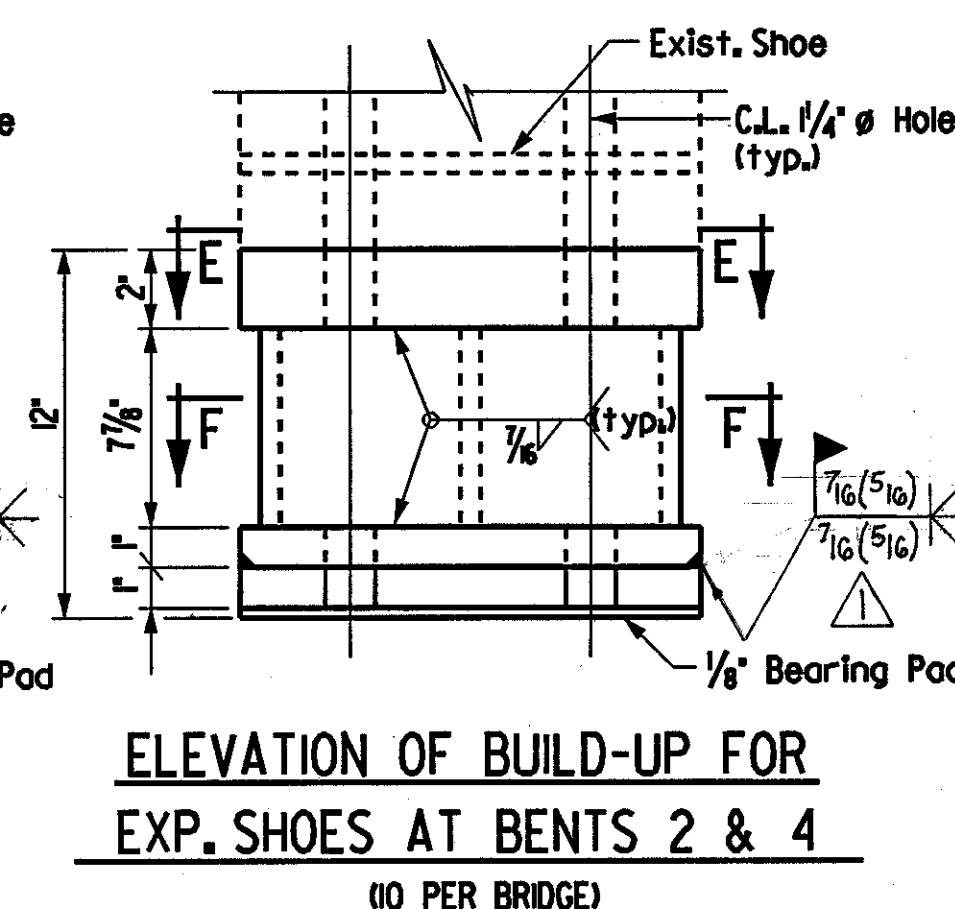
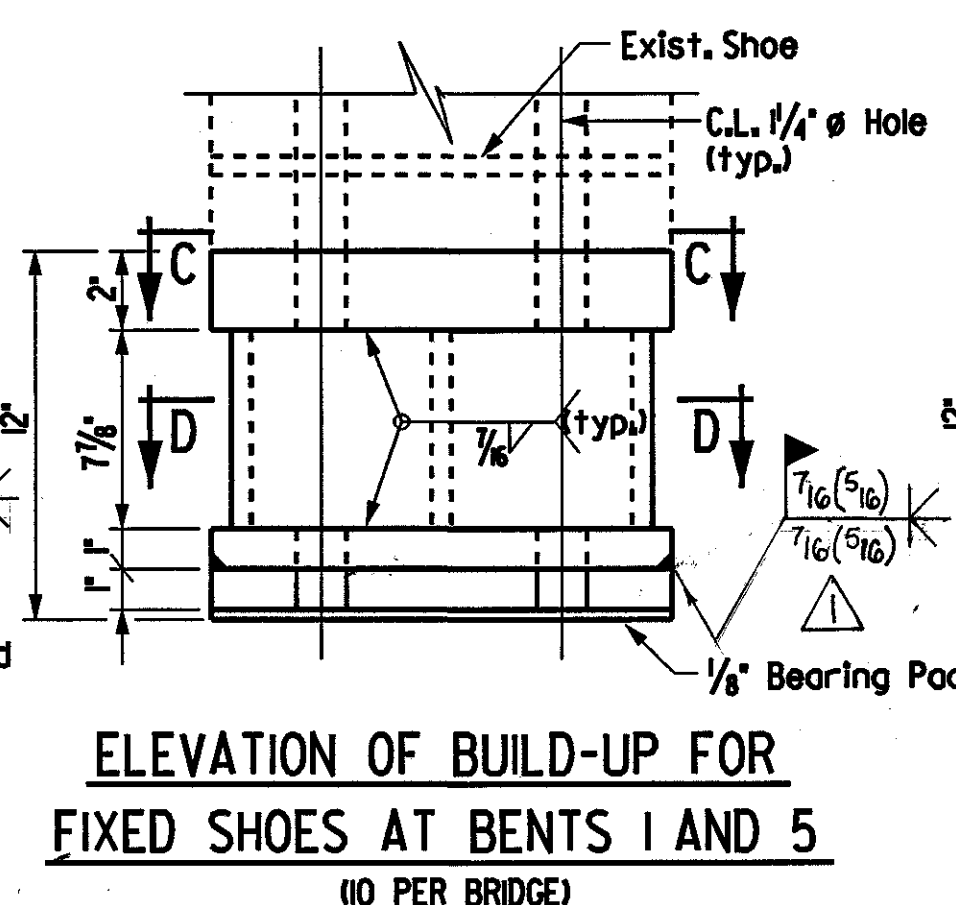
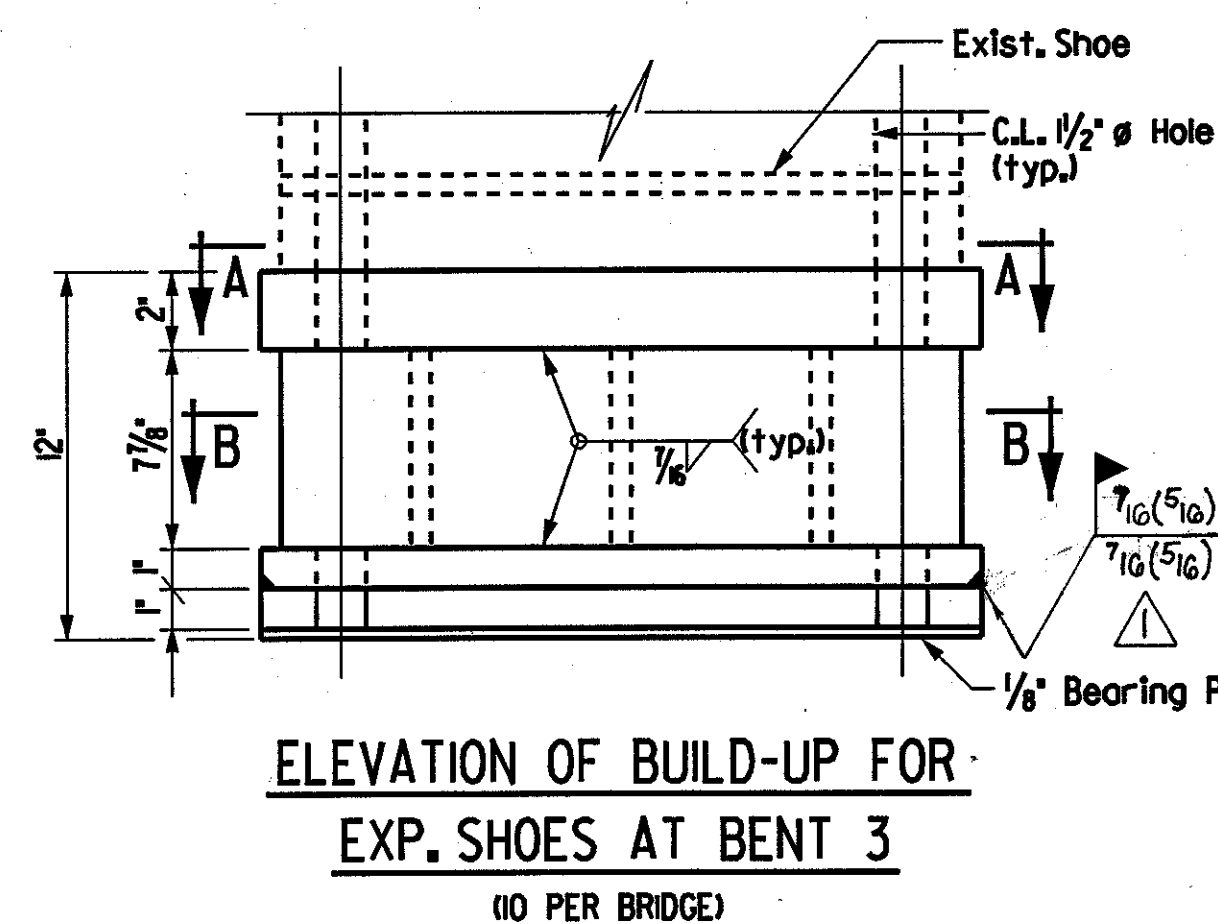
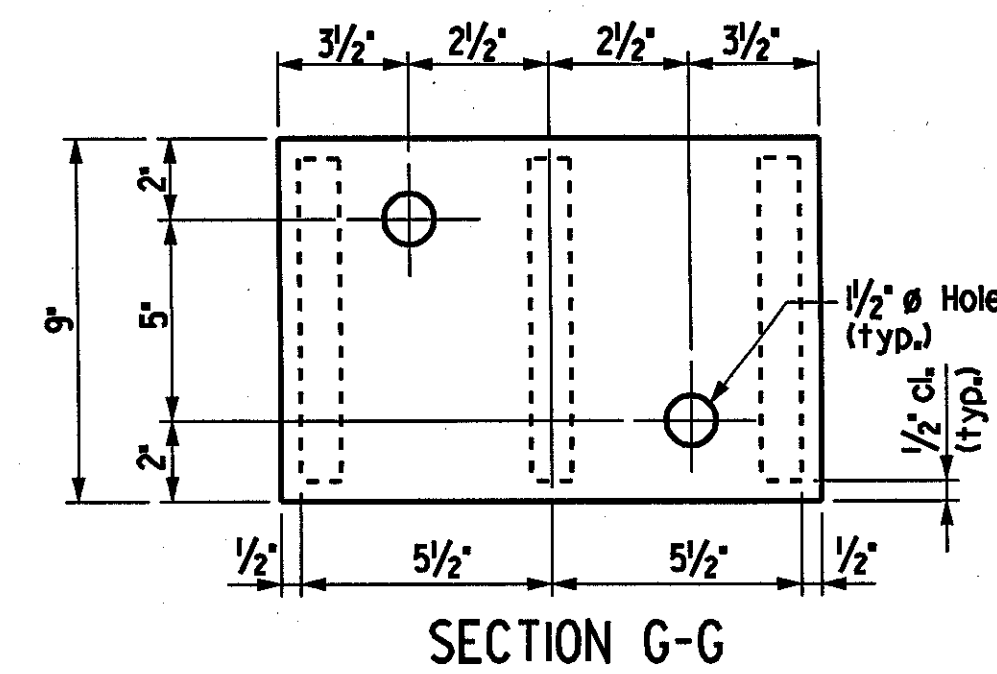
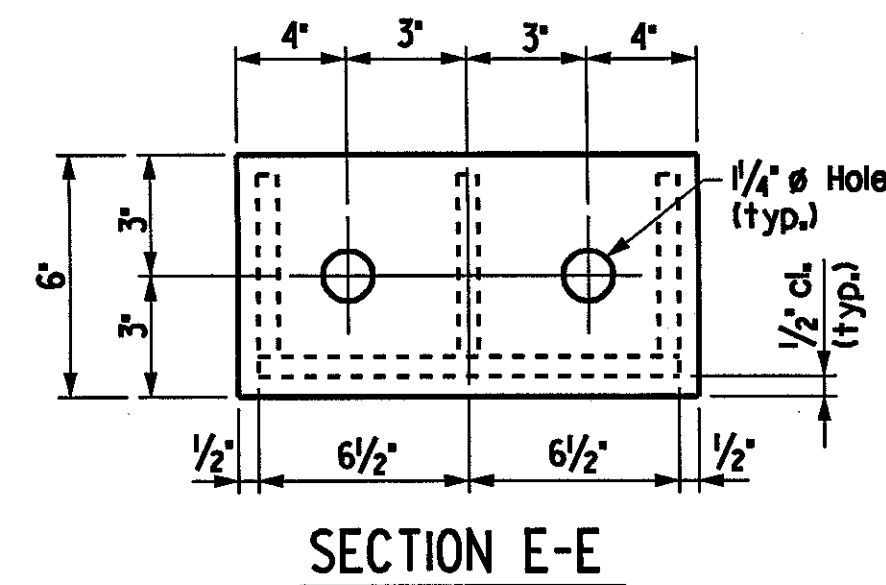
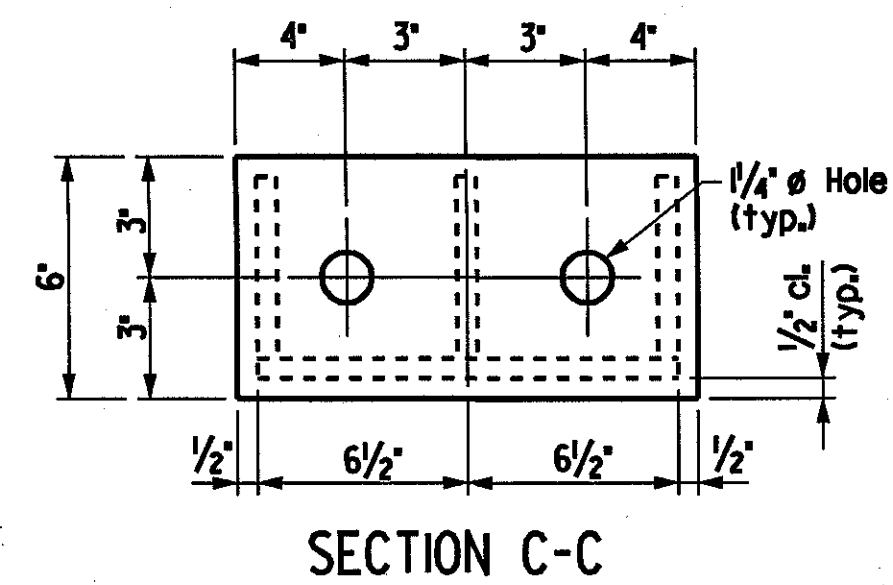
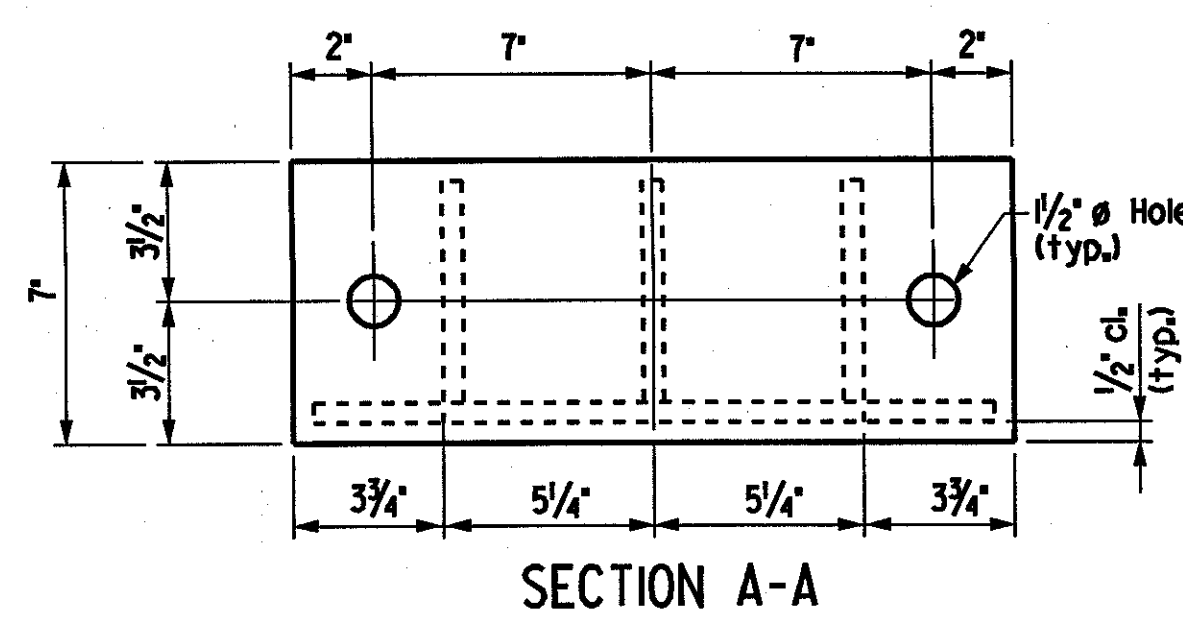


① Clip channel flange 3/8" x 5" minimum at each weld (Channel on approach gutter side of backwall only)

MICROFILMED
 APR 05 2001

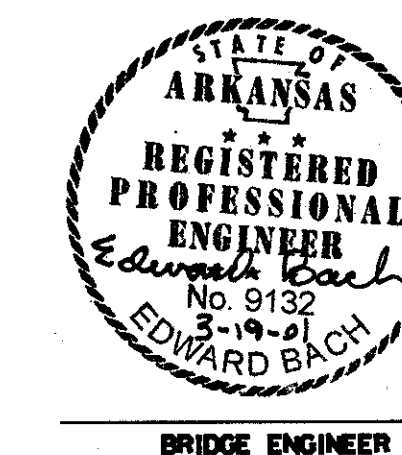
00049.dwg 06 Jacking.dgn

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4-6-2001				6	ARK.			
				JOB NO.		B60106	51	86
						Remodeling Dtls.	42234	



△ Revised Weld CPB 4-6-2001.

MICROFILMED
APR 05 2011



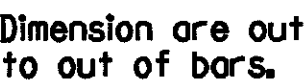
SHEET 2 OF 2
REMODELING DETAILS FOR BRIDGE NO. 3708
CARLISLE - EAST(F)
LONOKE & PRAIRIE COUNTIES
ROUTE 1-40 SEC. 41& 42
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: TAR DATE: JAN. 01 FILENAME: db60106.b2
CHECKED BY: EMB DATE: JAN. 01 SCALE: N.T.S.
DESIGNED BY: BCG DATE: JAN. 01
BRIDGE NO. 03708 DRAWING NO. 42234



Concrete shall be Class S or S(AE) or mixture used for Portland Cement Concrete Pavement.

Reinforcing steel shall conform to AASHTO M31 or M53, Grade 60 (fy = 60,000 psi). Fabricate bar lengths to provide 2" minimum cover at each end.

Approach gutters will be measured and paid for in accordance with Section 504 of the Standard Specifications.

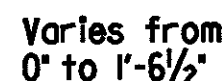


APPROACH GUTTER

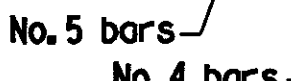
C

Construct curb full height (no height-transition) if drop inlet is used at end of gutter. Curb height transition placed on drop inlet. See drop inlet details.

Scale: $\frac{1}{2}" = 1'-0"$



Scale: $\frac{1}{2}" = 1'-0"$



Scale: $\frac{1}{2}" = 1'-0"$



At end of Transition Rail
Scale: $\frac{1}{2}" = 1'-0"$

NOTE: The contractor shall make check measurements and make any adjustments necessary to fit the new work to the existing bridge location.



(1'-7 1/2" CURB WIDTH)

ARKANSAS STATE HIGHWAY COMMISSION

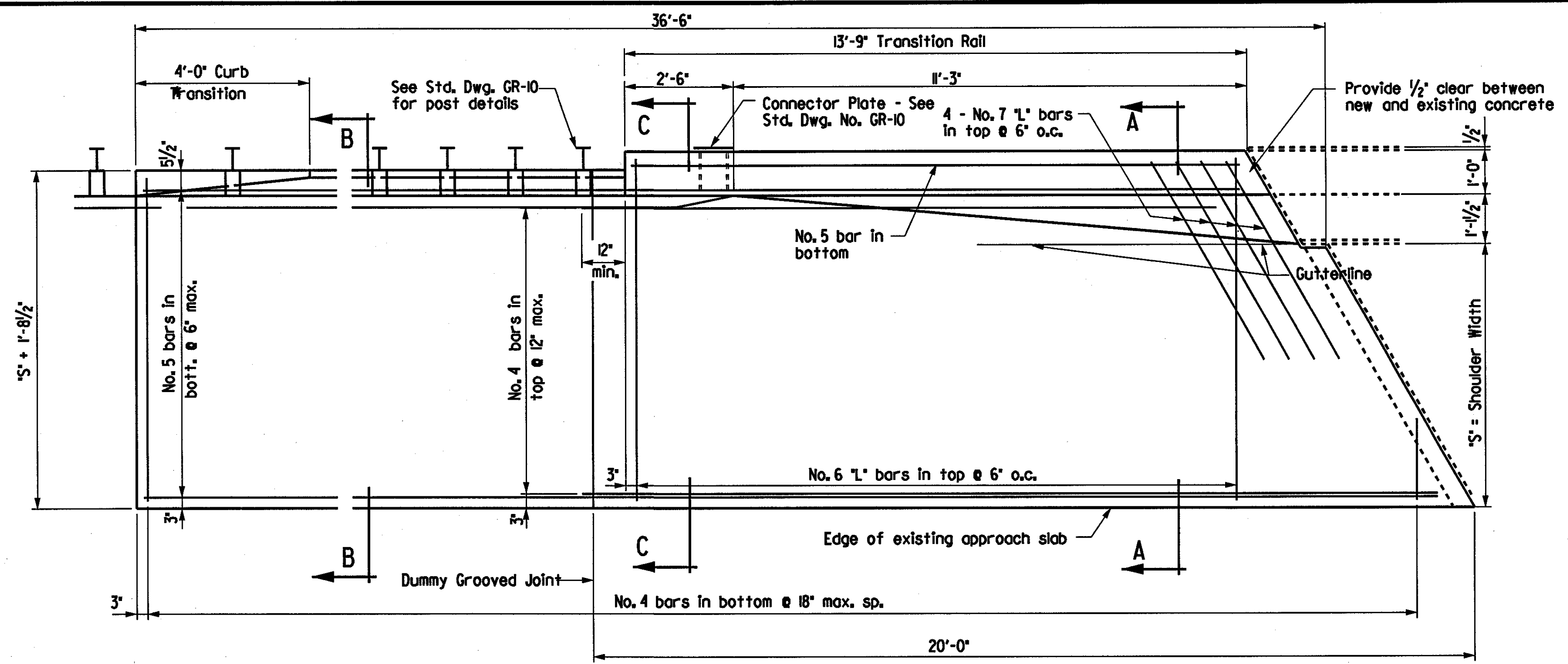
LITTLE ROCK, ARK.

DRAWN BY: TAR DATE: JAN. 01 FILENAME: bb60106.ogl
 CHECKED BY: EMB DATE: JAN. 01 SCALE: N.T.S.
 DESIGNED BY: BCG DATE: JAN. 01

BRIDGE NO. 03708

DRAWING NO. 42235

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	B60106		53	86
				03709	Special Gutter		42236	



GENERAL NOTES

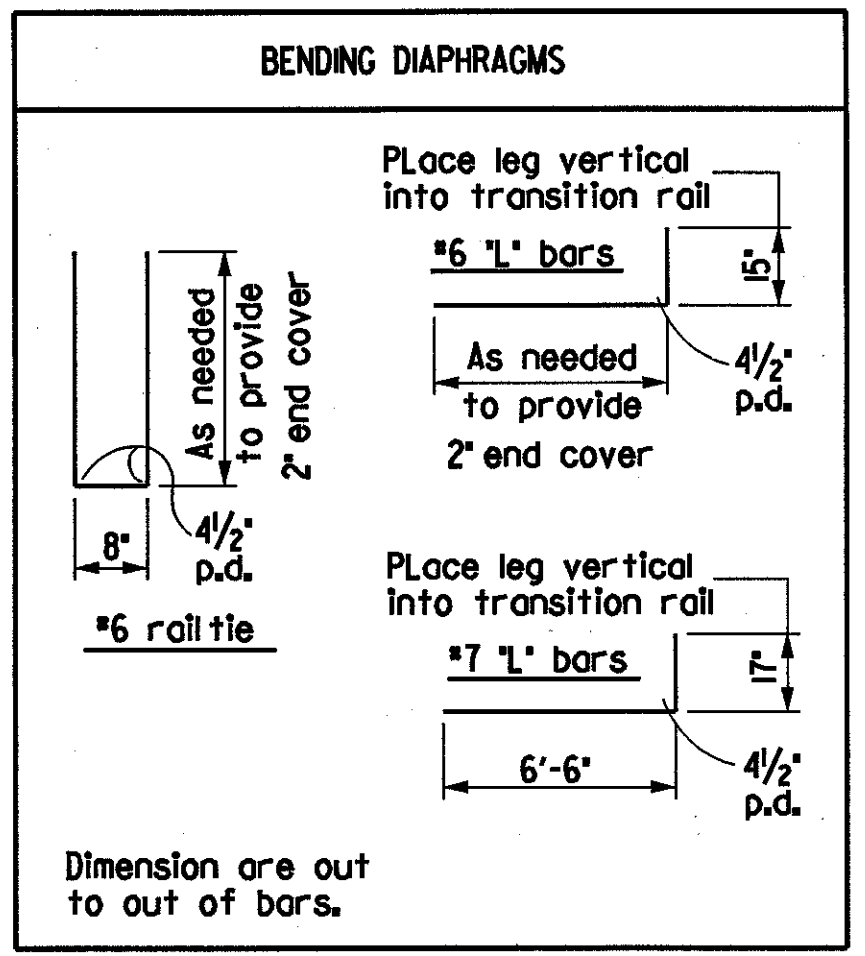
Concrete shall be Class S or S(AE) or mixture used for Portland Cement Concrete Pavement.

Reinforcing steel shall conform to AASHTO M31 or M53, Grade 60 (fy = 60,000 psi). Fabricate bar lengths to provide 2" minimum cover at each end.

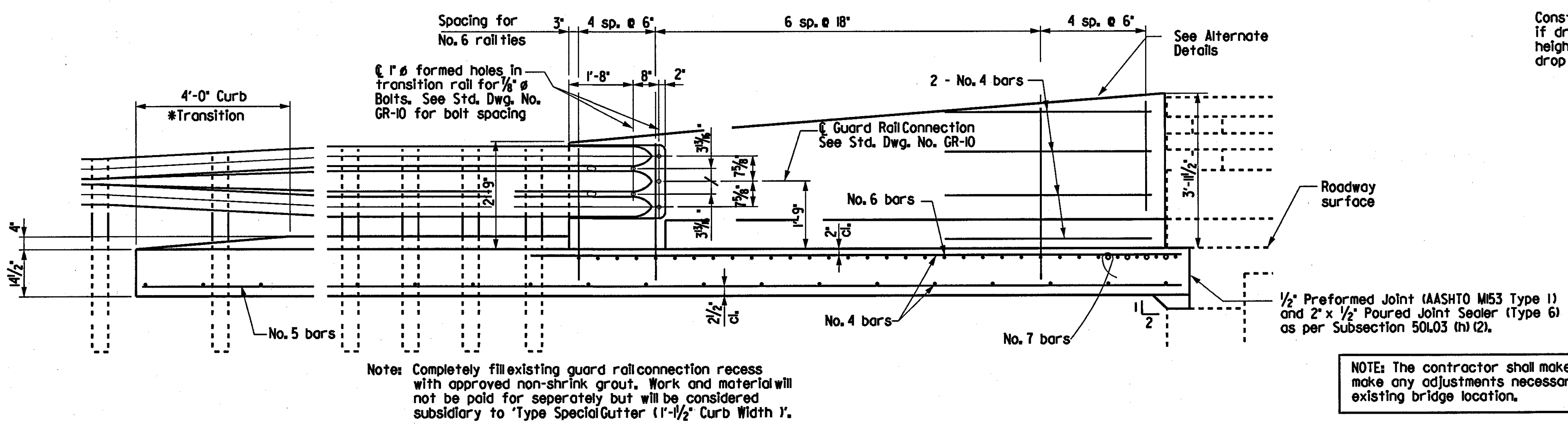
Approach gutters will be measured and paid for in accordance with Section 504 of the Standard Specifications.

QUANTITIES FOR ONE GUTTER

Shoulder Width (ft.)	Reinforcing Steel (Lbs.)	Concrete (C.Y.)
6	1473	15.44
10	2114	22.66



PLAN
Scale: 1/2" = 1'-0"



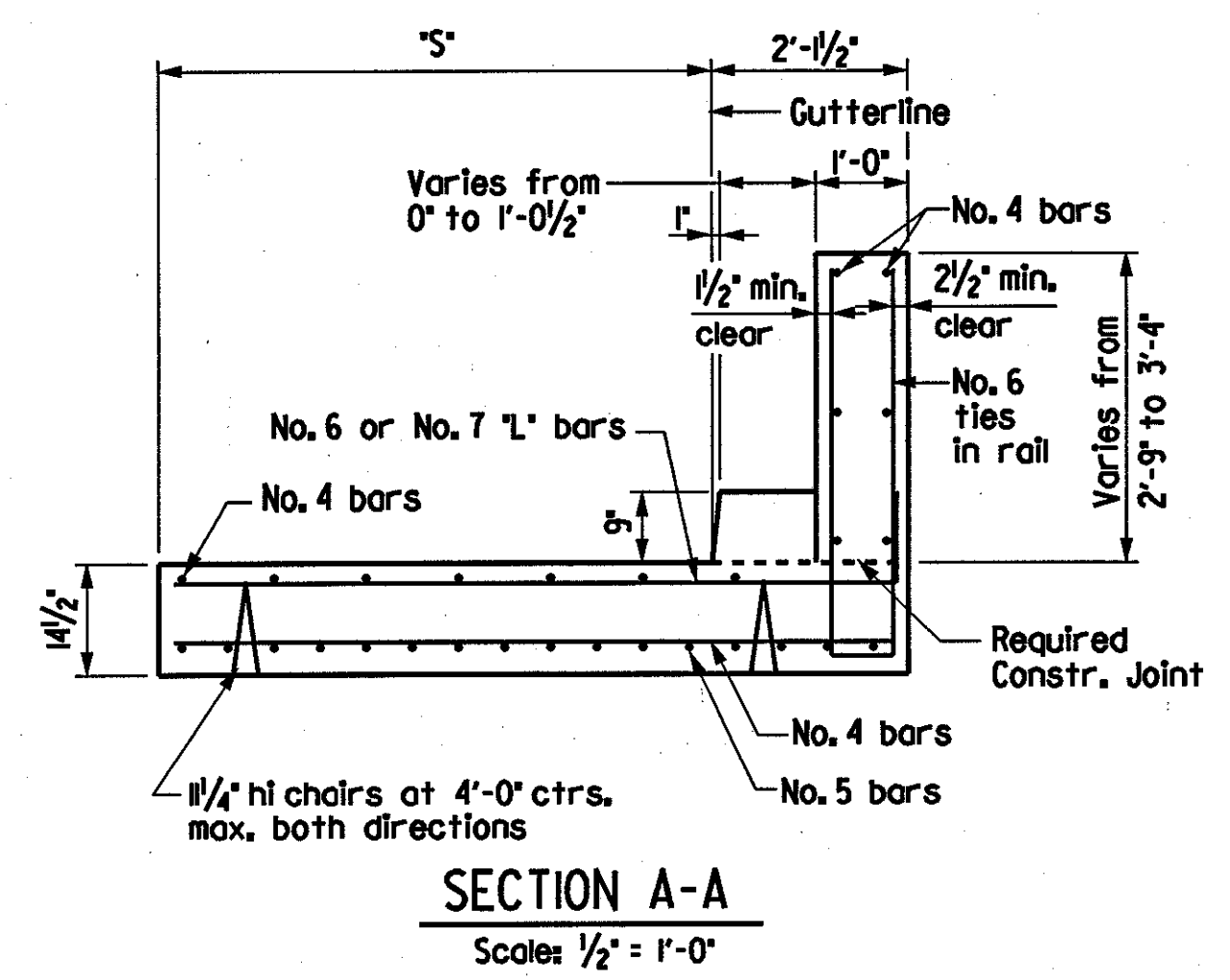
* Construct curb with height-transition as shown if drop inlet is not used at end of gutter.

Construct curb fullheight (no height-transition) if drop inlet is used at end of gutter. Curb height transition placed on drop inlet. See drop inlet details.

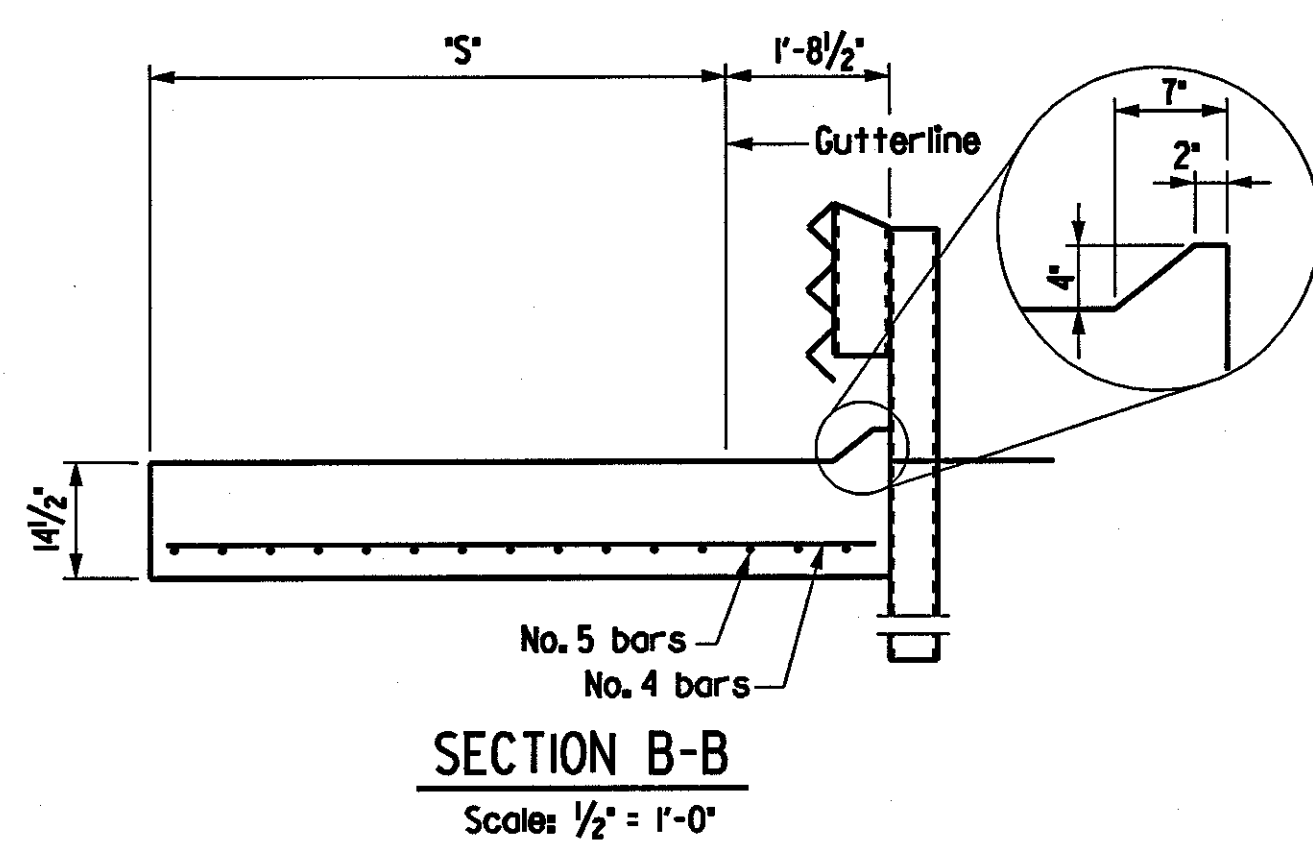
Notes: Completely fill existing guard rail connection recess with approved non-shrink grout. Work and material will not be paid for separately but will be considered subsidiary to "Type Special Gutter (1'-1 1/2" Curb Width)".

NOTE: The contractor shall make check measurements and make any adjustments necessary to fit the new work to the existing bridge location.

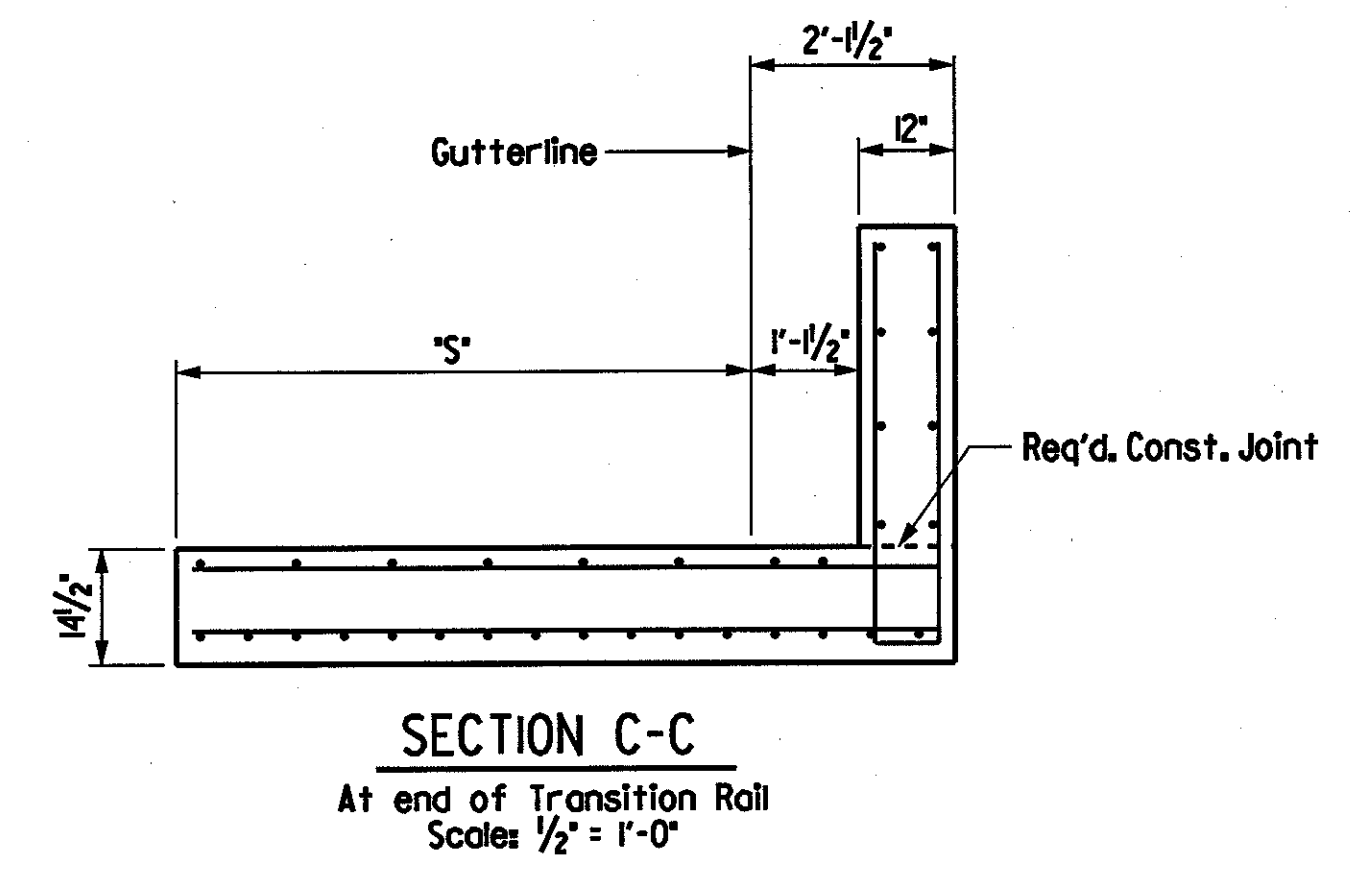
LONGITUDINAL SECTION THRU GUTTER
Scale: 1/2" = 1'-0"



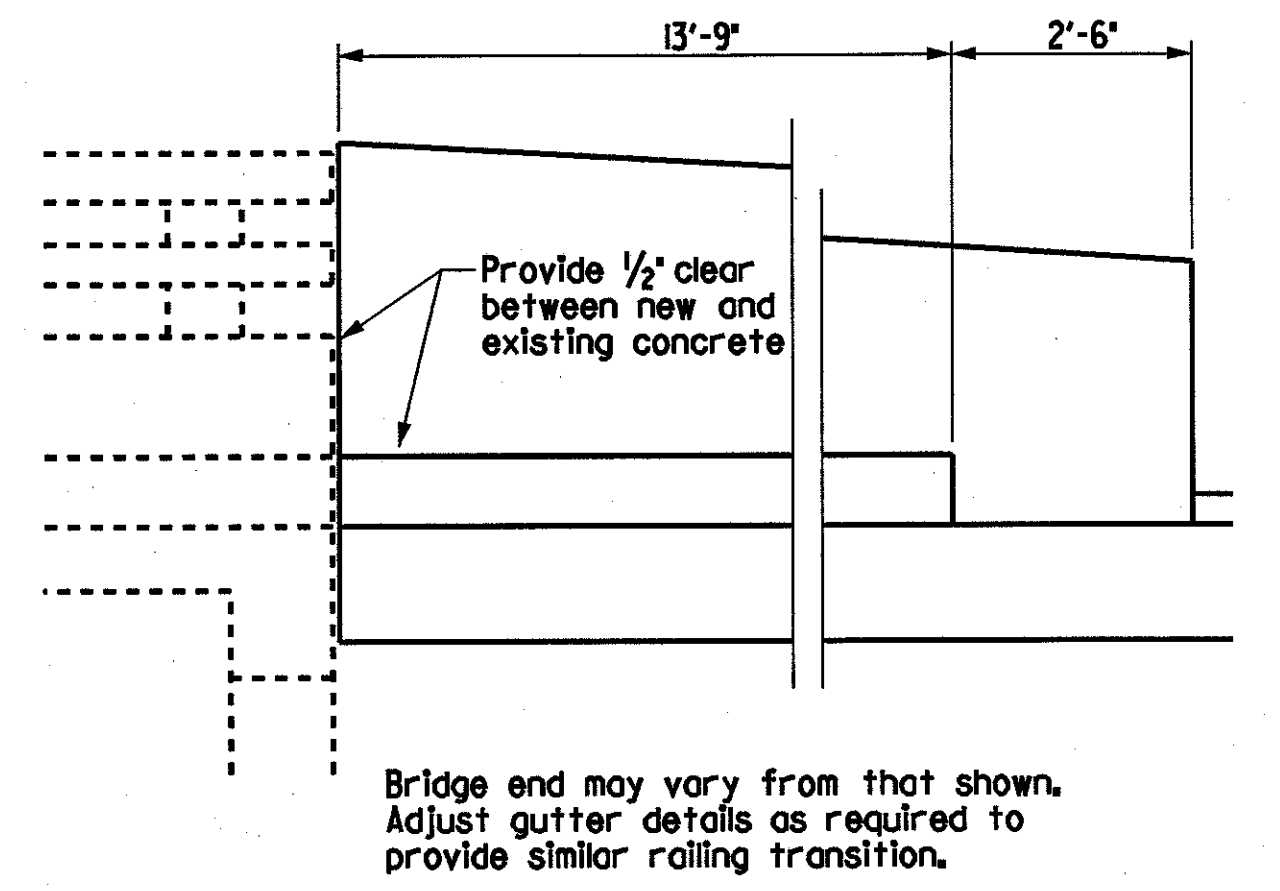
SECTION A-A
Scale: 1/2" = 1'-0"



SECTION B-B
Scale: 1/2" = 1'-0"



SECTION C-C
At end of Transition Rail
Scale: 1/2" = 1'-0"

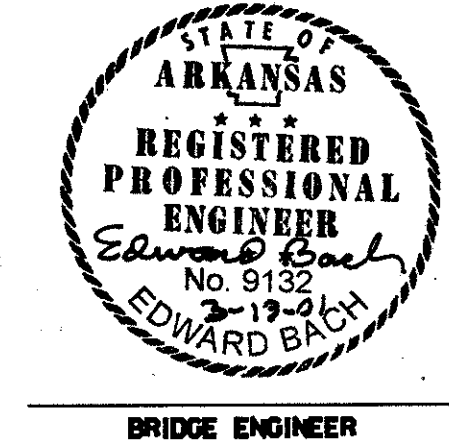


ALTERNATE DETAILS
No Scale

DETAILS OF APPROACH GUTTERS
TYPE SPECIAL
(1'-1 1/2" CURB WIDTH)

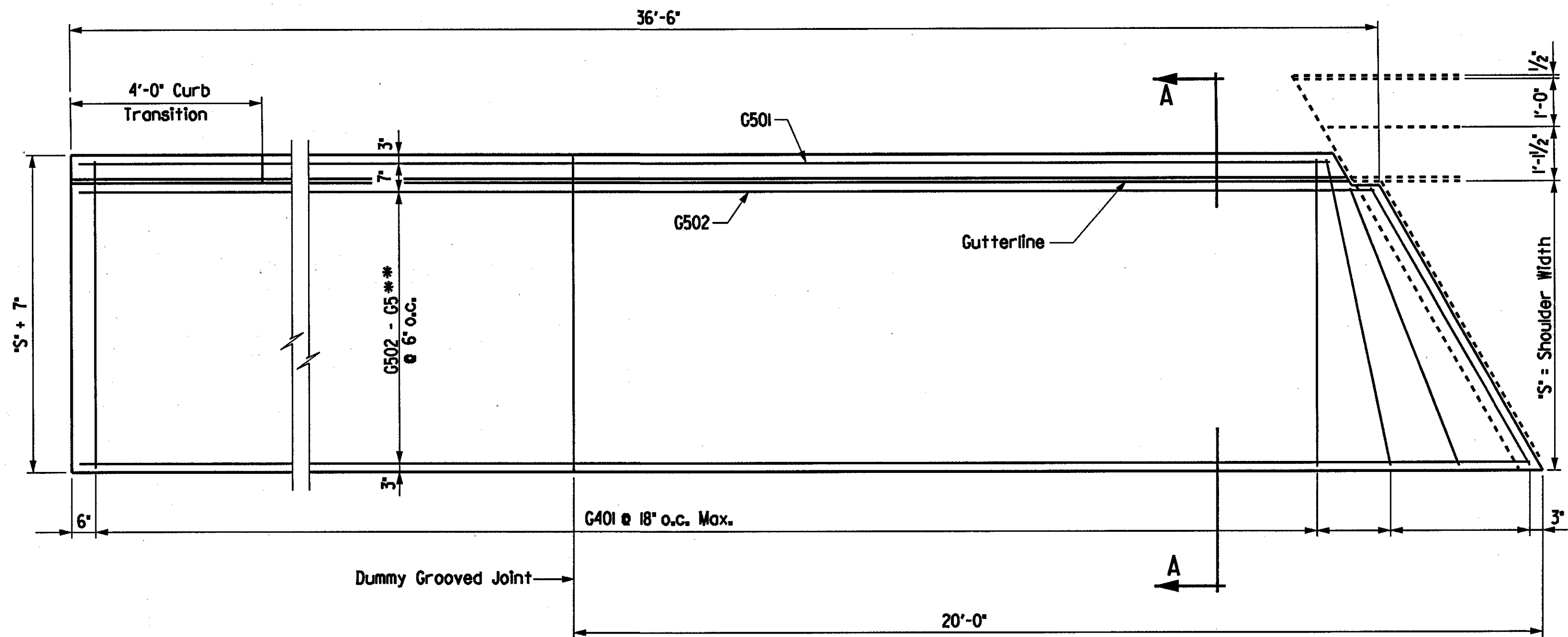
ROUTE 1-40 SEC. 41 & 42
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TAR DATE: Jan. 01 FILENAME: bb60106.092
CHECKED BY: EMB DATE: Jan. 01 SCALE: N.T.S.
DESIGNED BY: BCG DATE: Jan. 01
BRIDGE NO. 03709 DRAWING NO. 42236

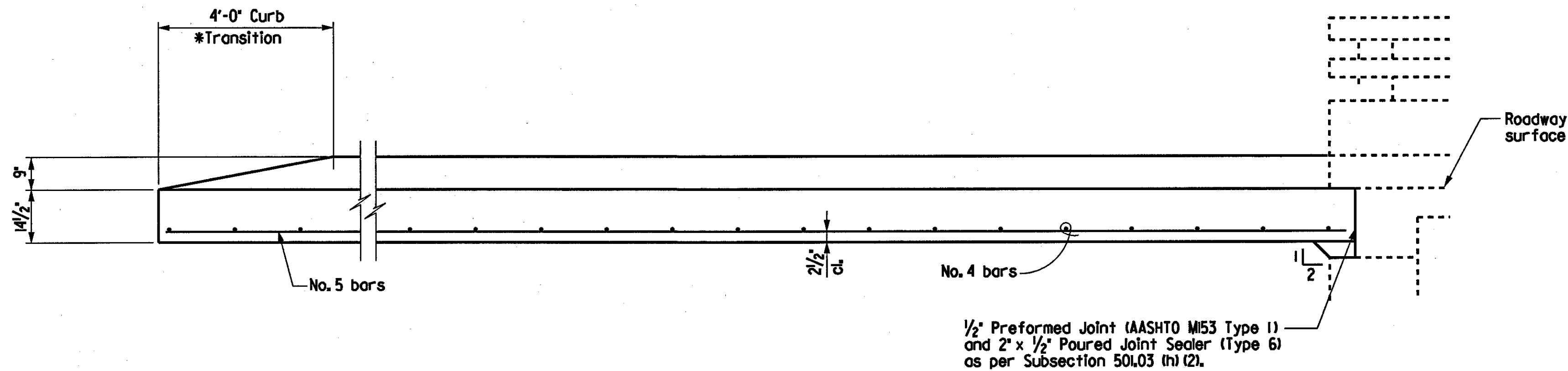


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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AD PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		B60106	54	86
				03709		Special Gutter		42237



PLAN
Scale: 1/2" = 1'-0"



LONGITUDINAL SECTION THRU GUTTER
Scale: 1/2" = 1'-0"

Mark	No. Req'd.		Length
	Shoulder	Width, "S"	
	6'-0"	10'-0"	
G401	24	24	"S" + 3'
G402-G4 **	1 Each	1 Each	Varies
G501	1	1	
G502-G5***	1 Each	1 Each	Varies

** G404 For S = 6'-0"
G406 For S = 10'-0"

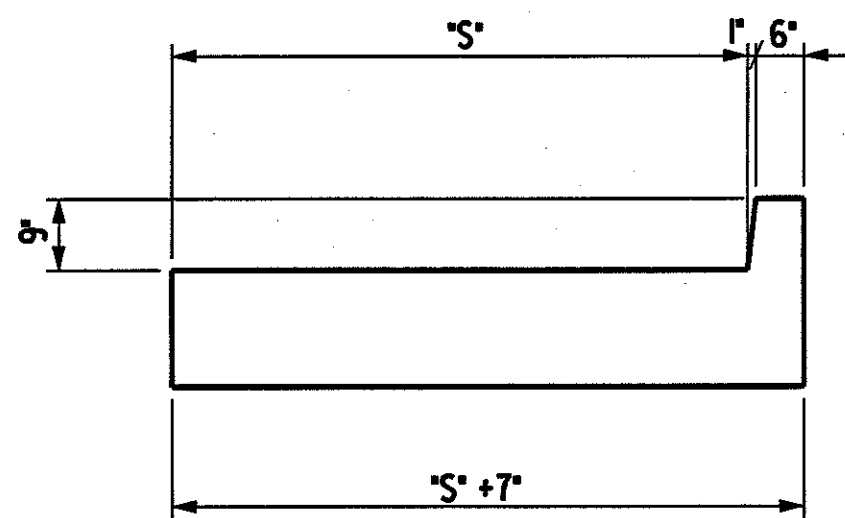
*** G513 For S = 6'-0"
G521 For S = 10'-0"

GENERAL NOTES

Concrete shall be Class S or (S/AE) or mixture used for Portland Cement Concrete Pavement.

Reinforcing steel shall conform to AASHTO M31 or M53, Grade 60 (fy = 60,000 psi). Fabricate bar lengths to provide 2" minimum cover at each end.

Approach gutters will be measured and paid for in accordance with Section 504 of the Standard Specifications.



SECTION A-A
N.T.S.

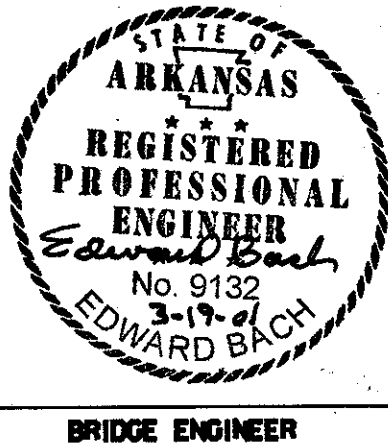
* Construct curb with height-transition as shown if drop inlet is not used at end of gutter.

Construct curb full height (no height-transition) if drop inlet is used at end of gutter. Curb height transition placed on drop inlet. See drop inlet details.

NOTE: The contractor shall make check measurements and make any adjustments necessary to fit the new work to the existing bridge location.

QUANTITIES FOR ONE GUTTER

Shoulder Width (Ft.)	Reinforcing Steel (Lbs.)	Concrete C.Y.
6	527	14.72
10	891	19.13



DETAILS OF APPROACH GUTTERS TYPE SPECIAL (6" CURB WIDTH)

ROUTE 1-40 SEC. 41 & 42
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

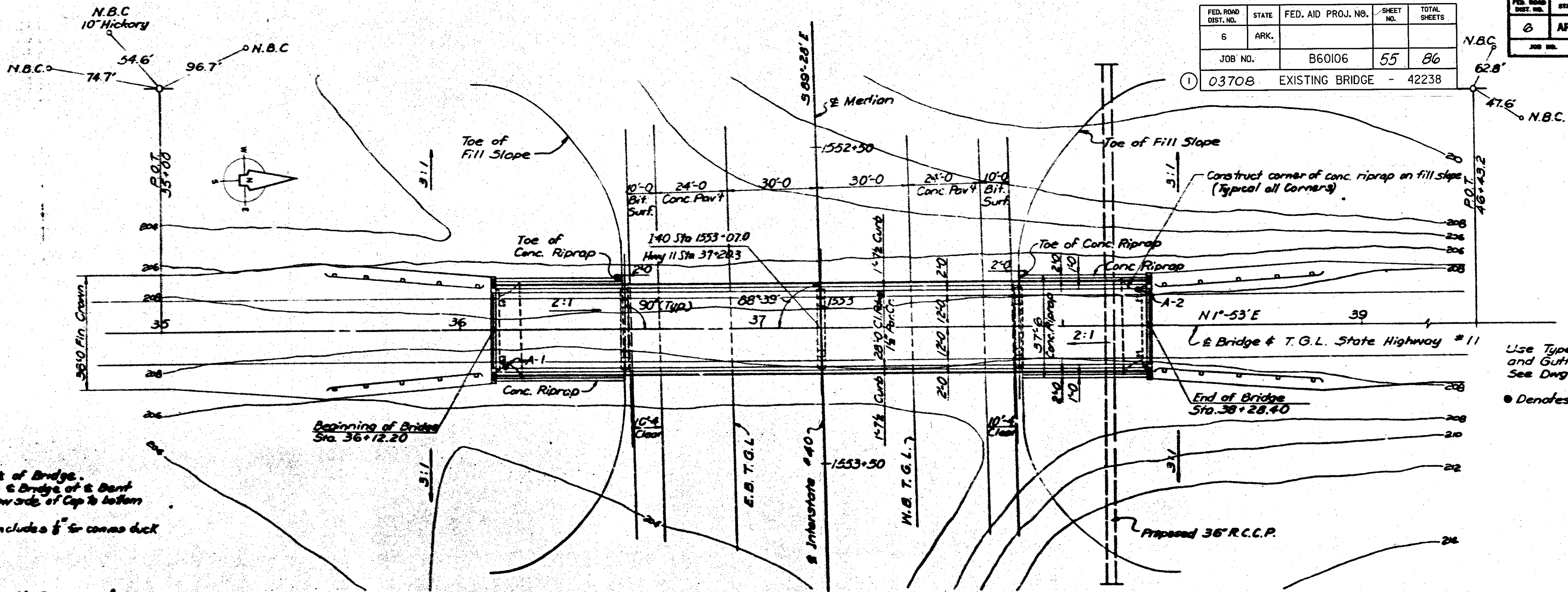
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CHECKED BY: EMB DATE: Jan. 01 SCALE: N.T.S.
DESIGNED BY: BCG DATE: Jan. 01

BRIDGE NO. 03709 DRAWING NO. 42237

ADT (1975) = 800 VPD

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.		55	86
JOB NO. B60106				
03708 EXISTING BRIDGE - 42238				

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.		55	86
JOB NO. 6717				
33				



- Notes:
1. Roadway Elevations shown are of E. of Bridge.
 2. Vertical Dimensions are: (1) from E. Bridge at E. Bent to low side of Cap and (2) from low side of Cap to bottom of Footing.
 3. Vertical Dimension (1) [See Note 2] includes a 6\"/>
 4. No Drains to be used on this Bridge.

Table of Variable Dimensions

Span	Beam	Clear Width	Abut. Footing	Abut. Spacing	Strut Spacing	Dim.	D.L. Deflection
66'-0"	Ext. Int.	Ext. Int.	Ext. Int.	Ext. Int.	Ext. Int.	Ext. Int.	Ext. Int.
35' 0" 35' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"

The above table is to be used with S.H. Des. 15030. Use shear connector spacing for 65'-0" span, except use 1'-11" instead of 9", and use K = 6 instead of 8. Use p = 10" instead of 9".

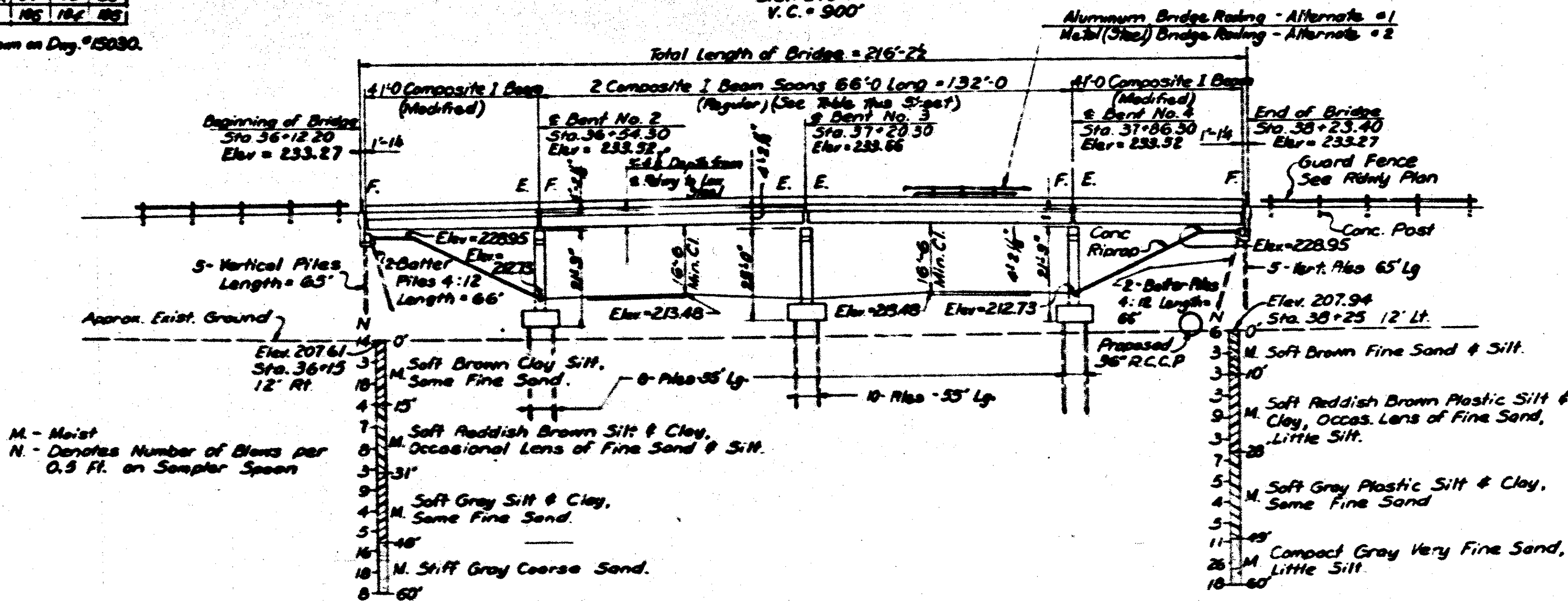
Span	Beam	Clear Width	Abut. Footing	Abut. Spacing	Strut Spacing	Dim.	D.L. Deflection
66'-0"	Ext. Int.	Ext. Int.	Ext. Int.	Ext. Int.	Ext. Int.	Ext. Int.	Ext. Int.
35' 0" 35' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"	1' 8" 3' 0"

Revisions to Bar Lists shown on Day. 15030.

PLAN

+3.00% -3.00%

P.V.1
Sta. 37+20.3
Elev. 240.41
V.C. = 900'



M - Moist
N - Denotes Number of Blows per 0.9 Ft. on Sampler Spoon

ELEVATION

FOR INFORMATION ONLY

GENERAL NOTES

Specifications:

Arkansas State Highway Commission
Standard Specifications for Highway
Construction adopted Dec. 9, 1959
Design Loading: H20-S16 AASHTO 1961

Stresses:

Class A Concrete (n=15) 8,400 psi
Class S Concrete (n=10) 12,000 psi
Reinforcing Steel 20,000 psi
Structural Steel (A-36) 20,000 psi

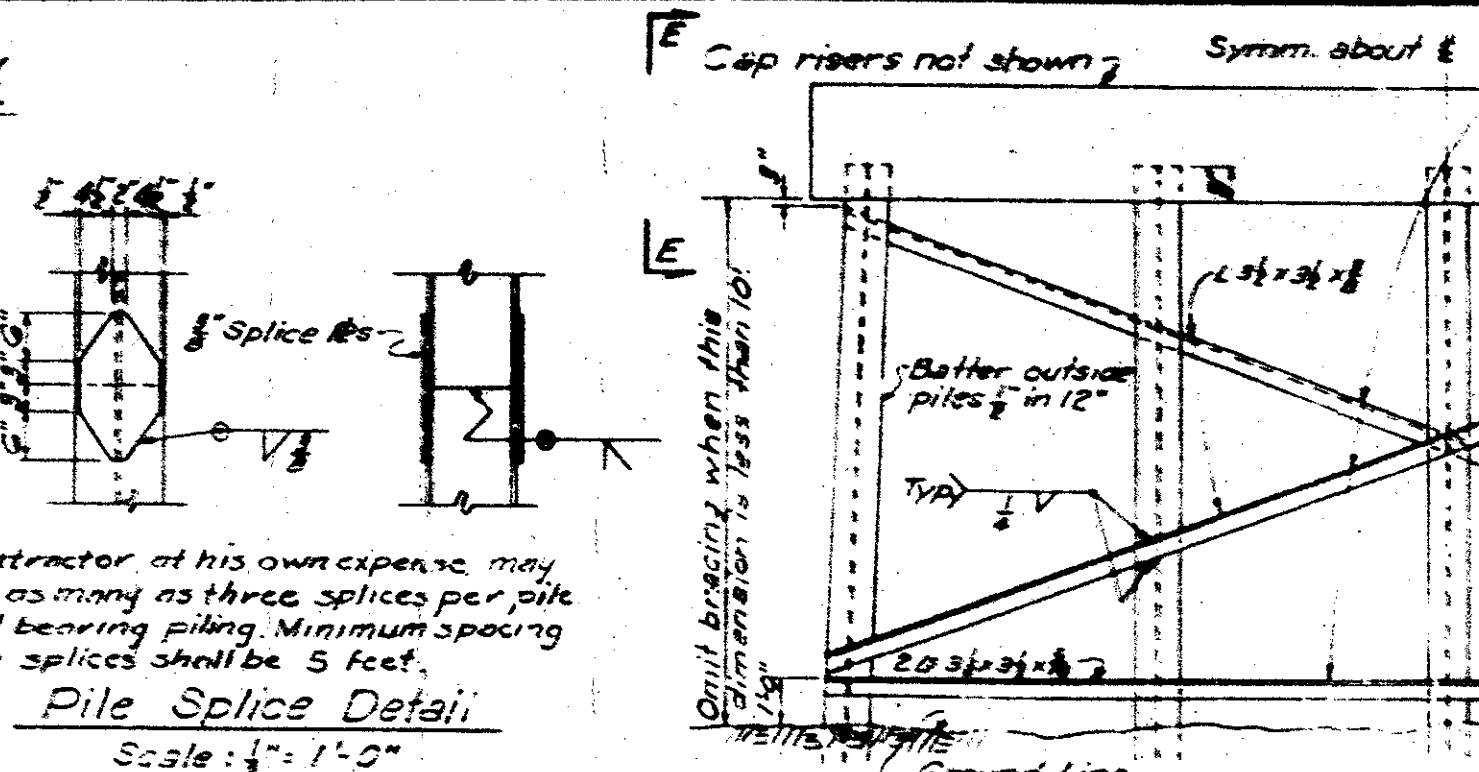
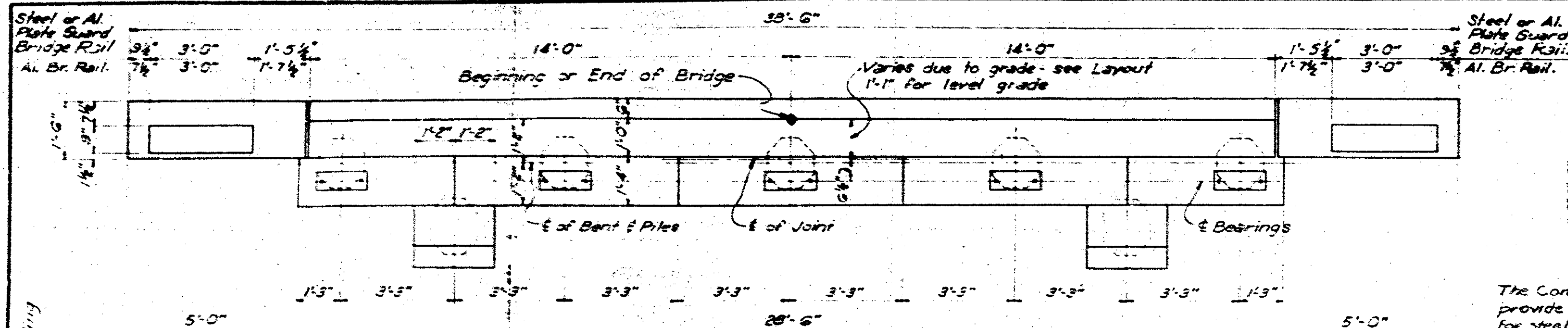
All Piles to be 16" Concrete filled Metal
Shells or 16" Octagonal Precast Piles.
Piles in End Bents 1 & 5 to be driven after
the Embankment is in Place.
Lengths of Piling shown are for Estimating
Purposes only. Actual Lengths to be
determined in the field. Drive one 60' Test
Pile in Bents No. 2 and No. 4.
All Piles to be driven to a minimum Bearing
of 36 ton/pile.

REFERENCES

For Substructure Details see Drawing No. 15030,
Drawing No. 14990 & Table of Variable Dimensions,
this sheet.
For Substructure Details see Drawing No. 15030A
& Drawing No. STI-2.
For Precast Concrete Pile Details see Drawing
No. 2382.
For Concrete Filled Metal Shell Piles see Drawing
No. 2381A.
For Concrete Riprap Details see "Summary of
Bridge Quantities" sheet.

Revised & Corrected 6-30-64 JWG

ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARKANSAS	
INTERSTATE ROUTE 40	SECTION
LAYOUT STATE HIGHWAY 11 UNDERPASS	
BRIDGE NO. 3708	SCALE 1" = 20'-0"
DRAWING NO. STI-1	DATE BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS DRAWING NO. 42238

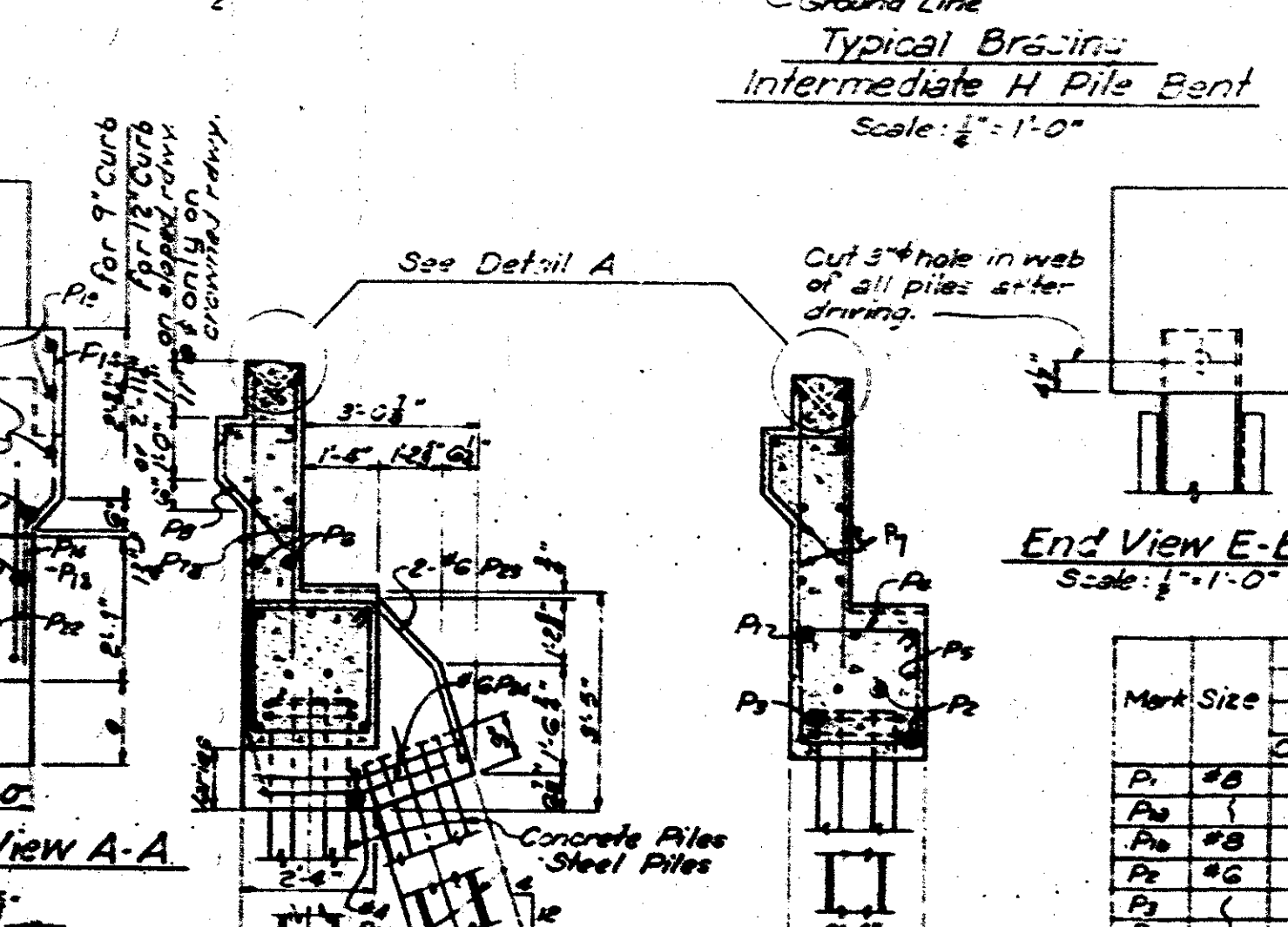
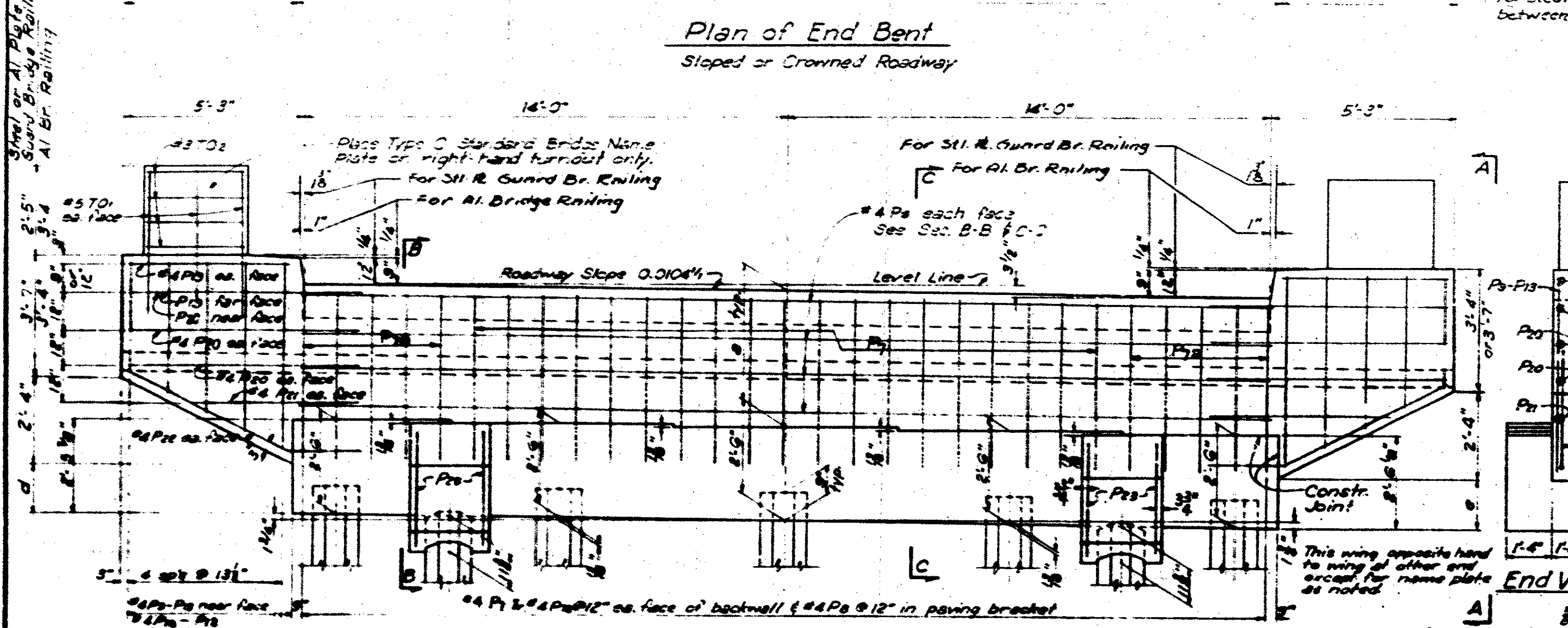


The lengths of bracing members shall be determined in the field. Each member shall be one continuous angle and shall be welded to the steel bearing piles as shown. Angle bracing shall be measured and paid for as 'Structural Steel in Beam Spans'.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	B60106	56	86

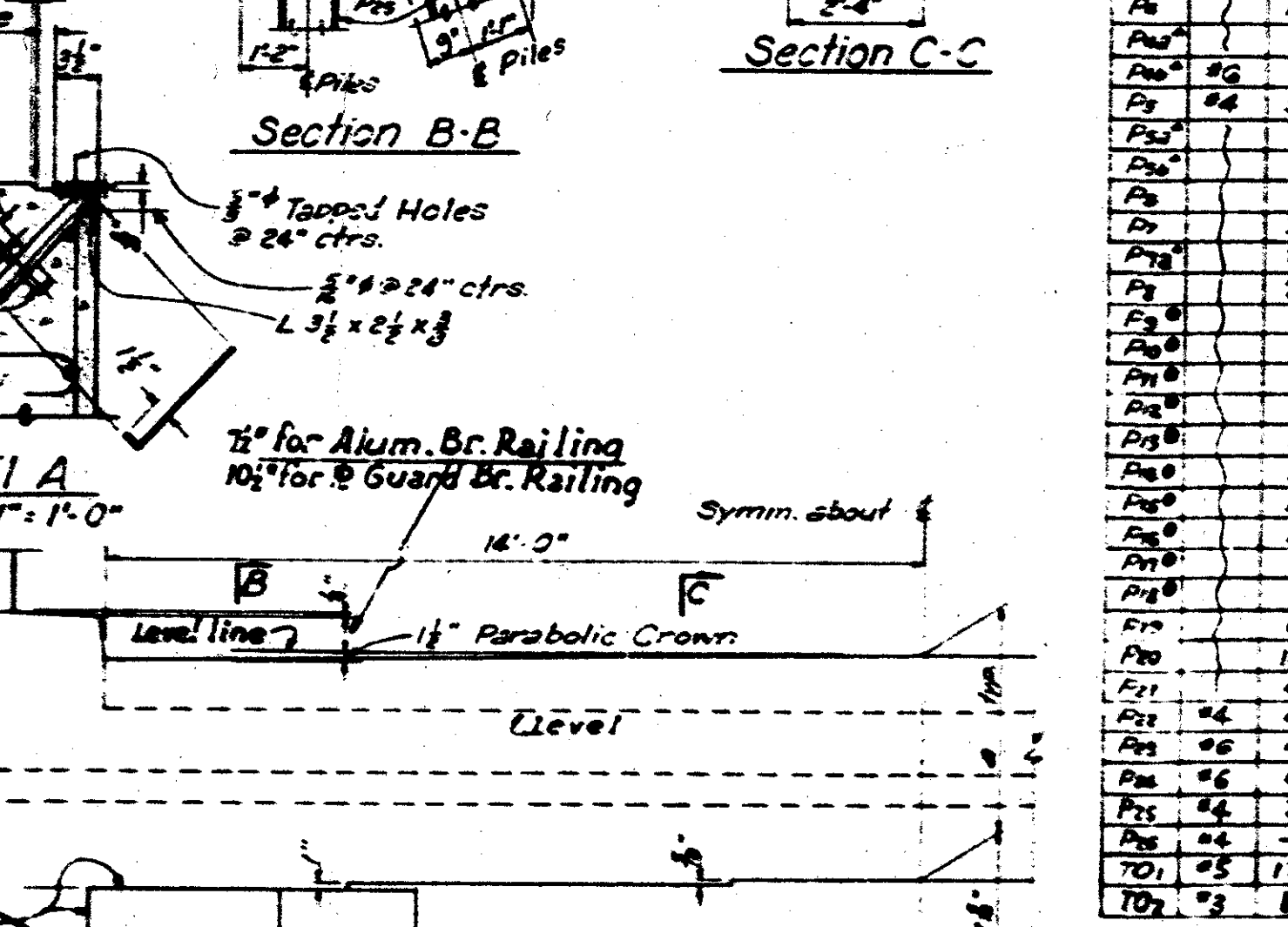
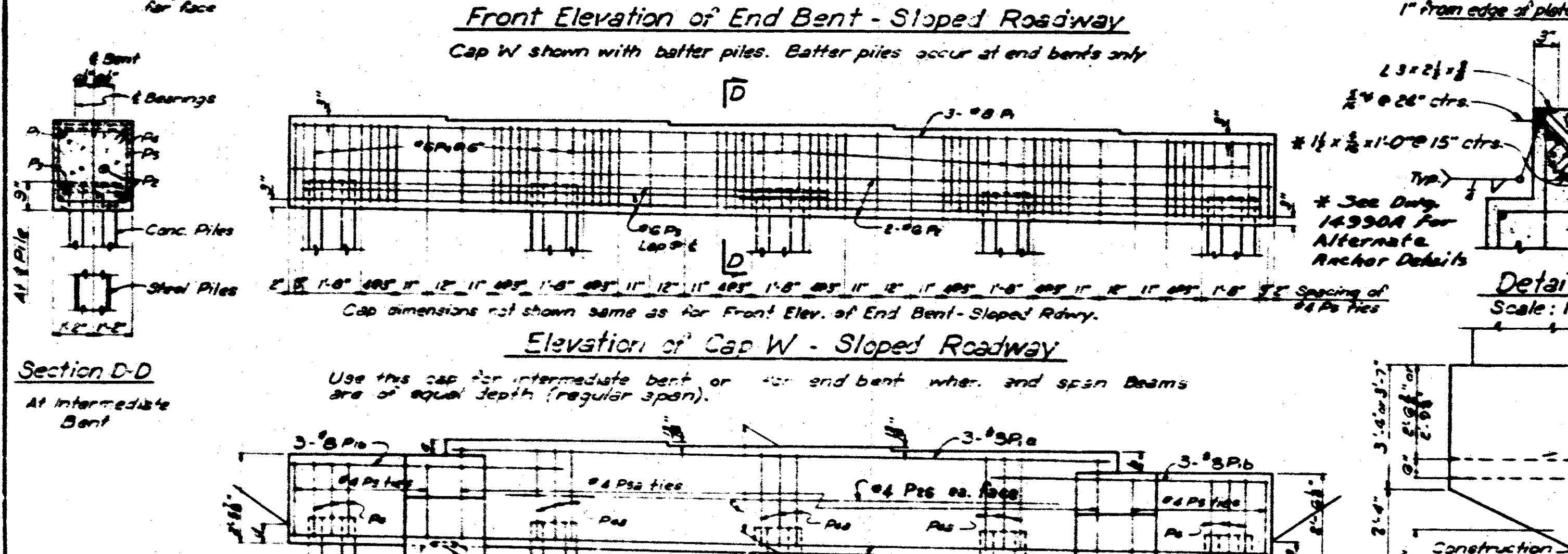
JOB NO. 03708 EXISTING BRIDGE = 42239

Structural Steel in Beam Spans			VARIANTS															
Span	Beams		Sloped Roadway								Crowned Roadway							
	Interior	Exterior	a	b	c	d	e	f	g	h	i	j	k	m				
35-36	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
35-36	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
37-43	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
37-43	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
44-51	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
44-51	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
52-55	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
52-55	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
56-57	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
56-57	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
58-60	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
58-60	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
63	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
63	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
65	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
65	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
67	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
67	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
70	21W22	21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
		21W22	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				



BAR LIST

Mark	Size	Number per Bent		Length	A	B	Pile Dia.	Bending Diagram
		Sloped Rdwy. End	Crowned Rdwy. Int.					
P1	#8	3	3	18'-0"				
P2	#8	3	3	18'-0"				
P3	#8	3	3	18'-0"				
P4	#8	3	3	18'-0"				
P5	#8	3	3	18'-0"				
P6	#8	3	3	18'-0"				
P7	#8	3	3	18'-0"				
P8	#8	3	3	18'-0"				
P9	#8	3	3	18'-0"				
P10	#8	3	3	18'-0"				
P11	#8	3	3	18'-0"				
P12	#8	3	3	18'-0"				
P13	#8	3	3	18'-0"				
P14	#8	3	3	18'-0"				
P15	#8	3	3	18'-0"				
P16	#8	3	3	18'-0"				
P17	#8	3	3	18'-0"				
P18	#8	3	3	18'-0"				
P19	#8	3	3	18'-0"				
P20	#8	3	3	18'-0"				
P21	#8	3	3	18'-0"				
P22	#8	3	3	18'-0"				
P23	#8	3	3	18'-0"				
P24	#8	3	3	18'-0"				
P25	#8	3	3	18'-0"				
P26	#8	3	3	18'-0"				
P27	#8	3	3	18'-0"				
P28	#8	3	3	18'-0"				
P29	#8	3	3	18'-0"				
P30	#8	3	3	18'-0"				
P31	#8	3	3	18'-0"				
P32	#8	3	3	18'-0"				
P33	#8	3	3	18'-0"				
P34	#8	3	3	18'-0"				
P35	#8	3	3	18'-0"				
P36	#8	3	3	18'-0"				
P37	#8	3	3	18'-0"				
P38	#8	3	3	18'-0"				
P39	#8	3	3	18'-0"				
P40	#8	3	3	18'-0"				
P41	#8	3	3	18'-0"				
P42	#8	3	3	18'-0"				
P43	#8	3	3	18'-0"				
P44	#8	3	3	18'-0"				
P45	#8	3	3	18'-0"				
P46	#8	3	3	18'-0"				
P47	#8	3	3	18'-0"				
P48	#8	3	3	18'-0"				
P49	#8	3	3	18'-0"				
P50	#8	3	3	18'-0"				
P51	#8	3	3	18'-0"				
P52	#8	3	3	18'-0"				
P53	#8	3	3	18'-0"				
P54	#8	3	3	18'-0"				
P55	#8	3	3	18'-0"				
P56	#8	3	3	18'-0"				
P57	#8	3	3	18'-0"				
P58	#8	3	3	18'-0"				
P59	#8	3	3	18'-0"				
P60	#8	3	3	18'-0"				
P61	#8	3	3	18'-0"				
P62	#8	3	3	18'-0"				
P63	#8	3	3	18'-0"				
P64	#8	3	3	18'-0"				
P65	#8	3	3	18'-0"				
P66	#8	3	3	18'-0"				
P67	#8	3	3	18'-0"				
P68	#8	3	3	18'-0"				
P69	#8	3	3	18'-0"				
P70	#8	3	3	18'-0"				



FOR INFORMATION ONLY

BAR LIST FOR BENTS NO. 2, NO. 3, & NO. 4

Mark	Size	No. per Bent	Length	A	B	Pin Dia.
F ₁	#6	26	9'-11"	8'-6"	0'-6"	4 1/2"
F ₂	#6	34	7'-11"	6'-6"	0'-6"	4 1/2"
F ₃	#8	24 Bents No. 2 & No. 4	6'-7"	5'-6"	0'-9"	8"
P ₀	#8	16 1/2	17'-7"	Straight		
P ₁	#8	24 1/2	21'-4"	Straight		
P ₂	#8	4	21'-3"	19'-0"	0'-9"	8"
P ₃	#9	3	28'-11"	18'-11"	5'-0"	9"
P ₄	#9	3	31'-0"	28'-6"	0'-10"	9"
P ₅	#9	8 1/2	12'-6"	11'-3"	0'-10"	9"
P ₆	#8	8 1/2	12'-4"	11'-3"	0'-9"	8"
T ₁	#4	36 Bents No. 2 & No. 4	8'-9"	2'-0"	2'-0"	1 1/2"
T ₂	#4	25	12'-1"	2'-1 1/2"	3'-7 1/2"	1 1/2"
T ₃ to T ₆	#4	2 Ea.	11'-8"	2'-1 1/2"	3'-4 1/2"	1 1/2"
P ₇	#4	2	28'-0"	Straight		

Note: Dimensions are to centers of bars.

Notes:
All Concrete in Cops to be Class S. Concrete in Columns and Footings to be Class A.
All exposed corners to have 3/4" chamfer.

References:
For Layout see Dwg. STI-1.
For Superstructure details see Dwg. 15030, 14990 & STI-1.

Δ Revised & Corrected 6-30-64 JWG cals/fmt

FOR INFORMATION ONLY

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS
INTERSTATE ROUTE 40 SECTION

DETAILS OF INTERMEDIATE BENTS
HIGHWAY NO. 11 UNDERPASS

BRIDGE NO. 3708

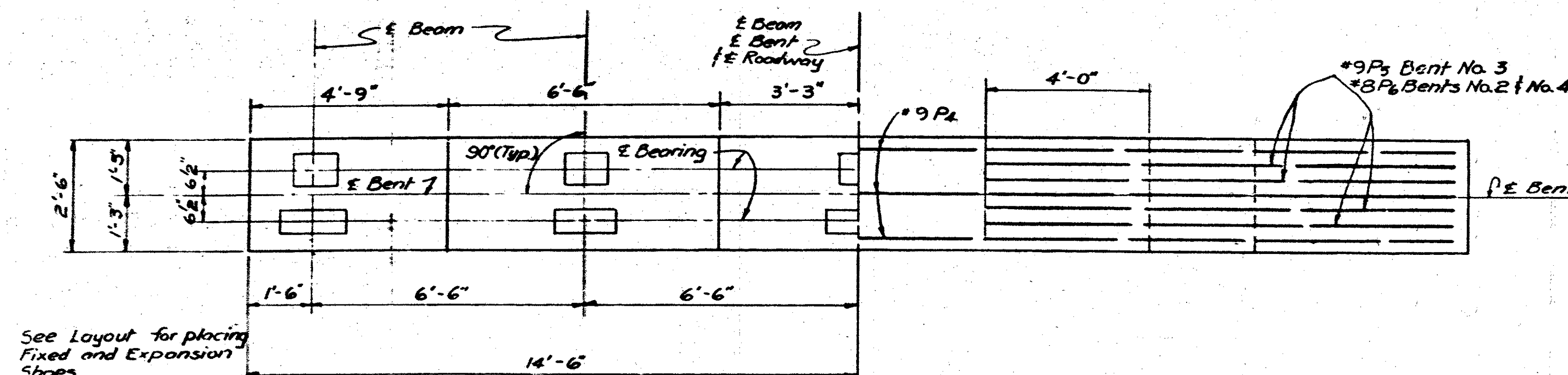
SCALE
1/2" = 1'-0"

DATE

DRAWING NO. STI-2

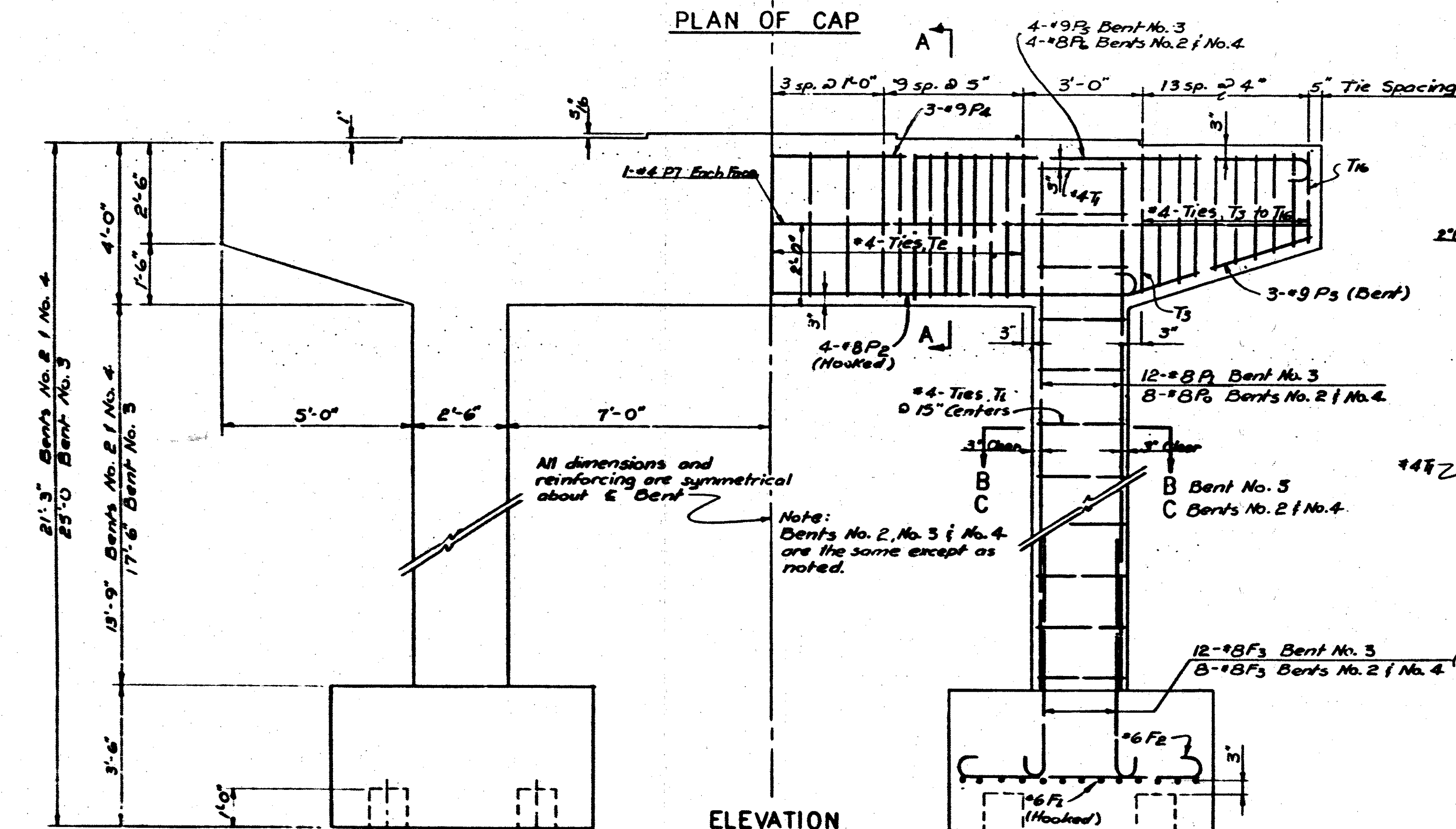
BLANVELT ENGINEERING CO.
CONSULTING ENGINEERS
DRAWING NO. 42240

A-M-P-REVISIONS-MAR-1973



See Layout for placing Fixed and Expansion Shoes.

PLAN OF CAP



All dimensions and reinforcing are symmetrical about E Bent.

Note:
Bents No. 2, No. 3 & No. 4 are the same except as noted.

SECTION A-A

SECTION B-B

SECTION C-C

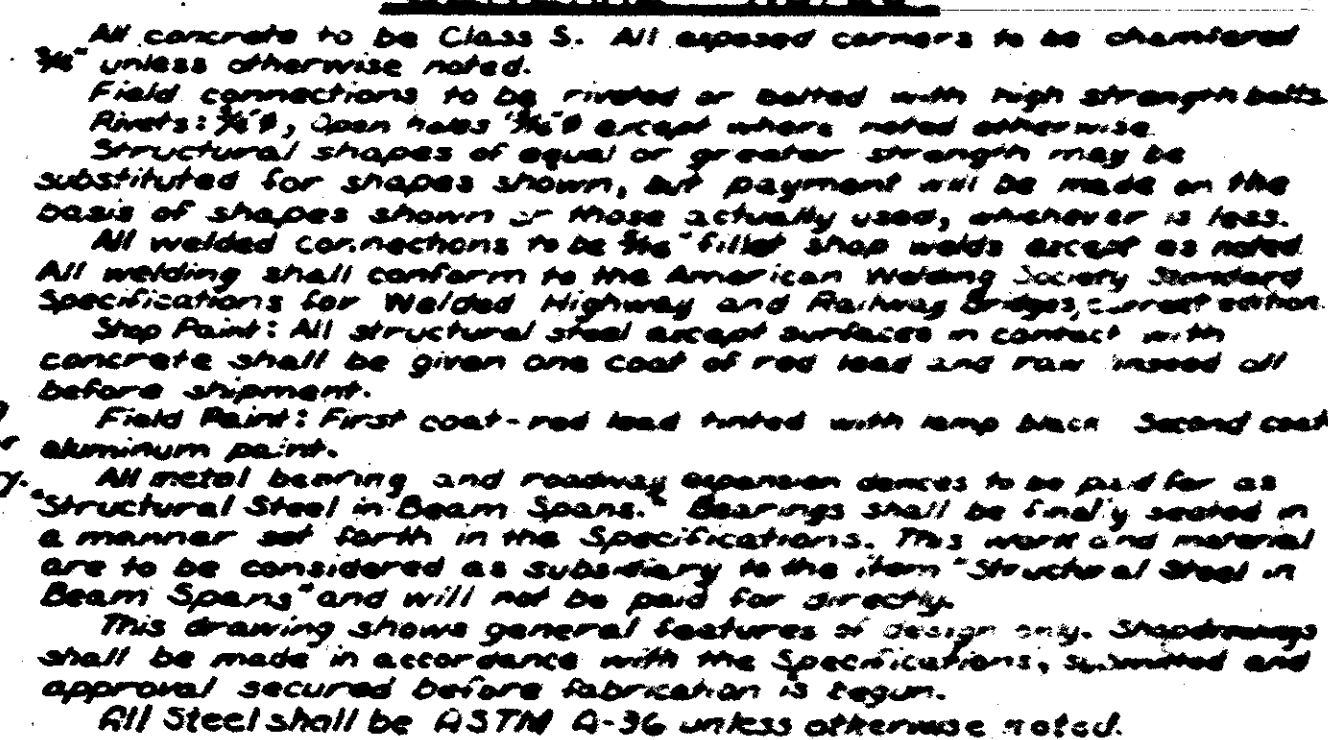
ELEVATION

Note:
Center Pile for Bent No. 3 only. Bents No. 2 & No. 4 have 4 Piles per Footing.

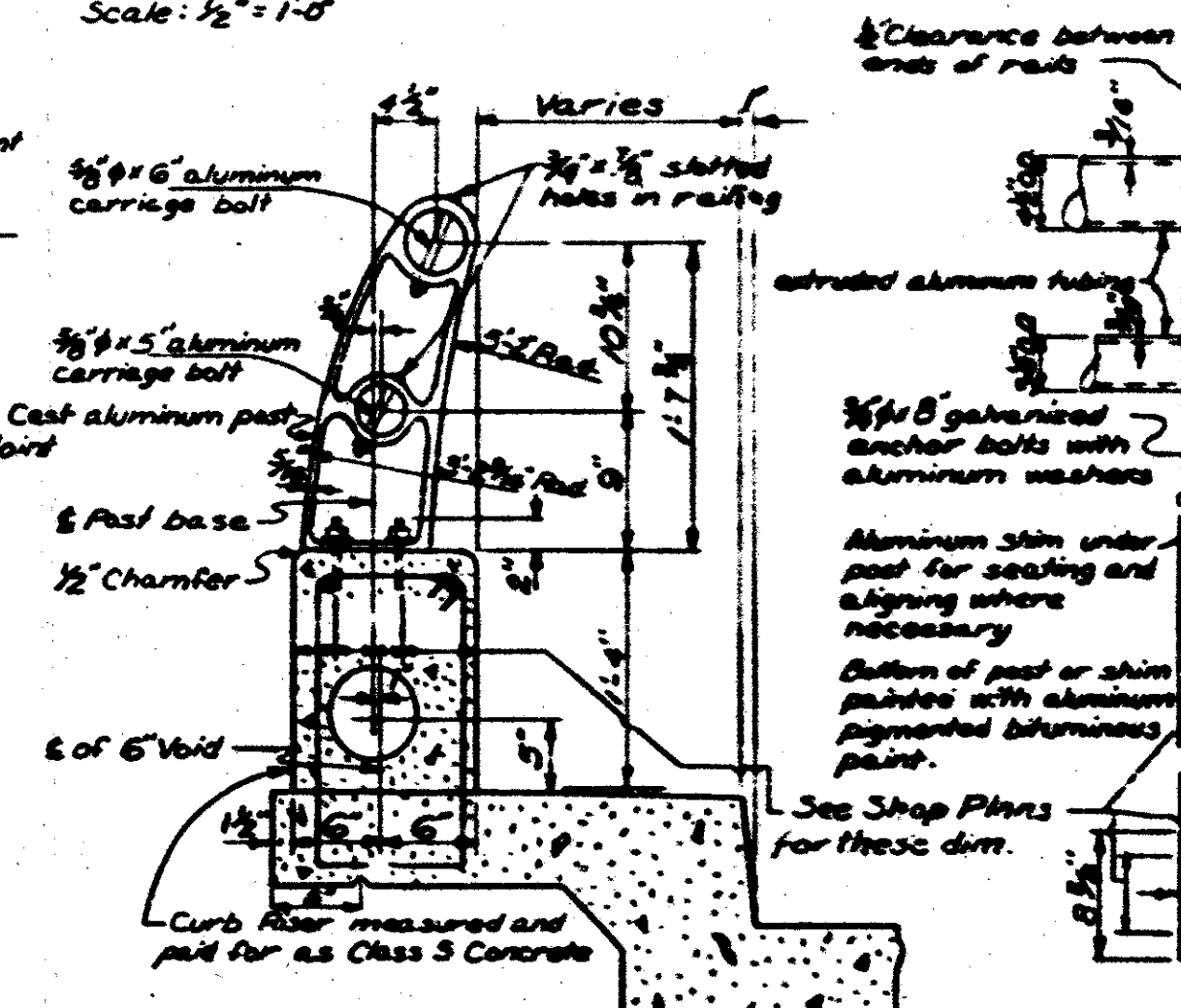
FOOTING PLAN

In Charge of C.A.M.
Made By J.A.P.
Checked By S.M.C.

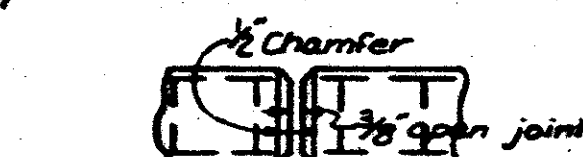
EXISTING BRIDGE - 42241



Scale: $\frac{1}{2}'' = 1'-0''$



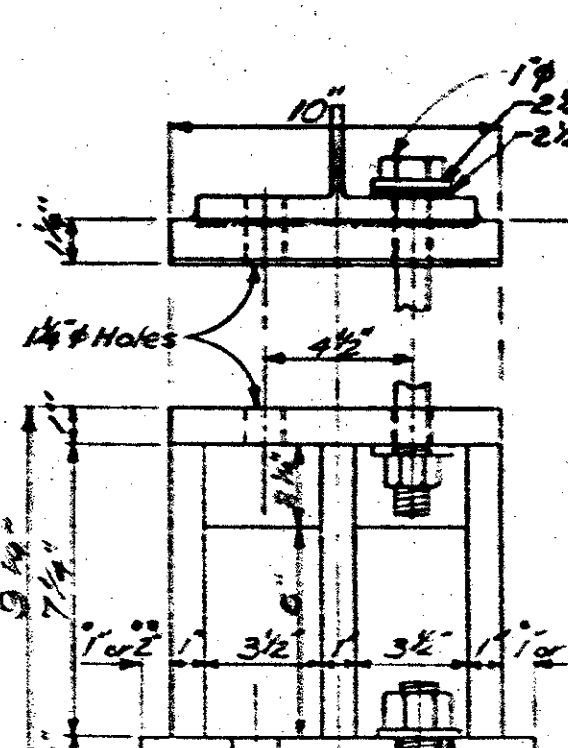
Scale: $\frac{1}{4}" = 1'-0"$



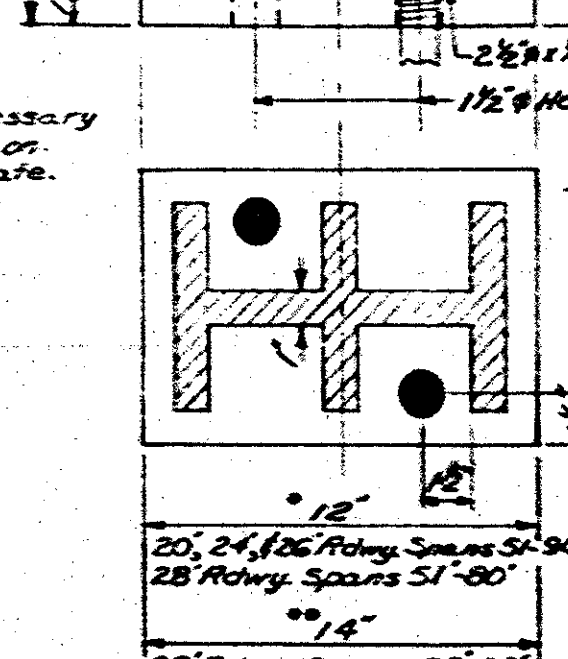
PLAN OF OPEN JOINT



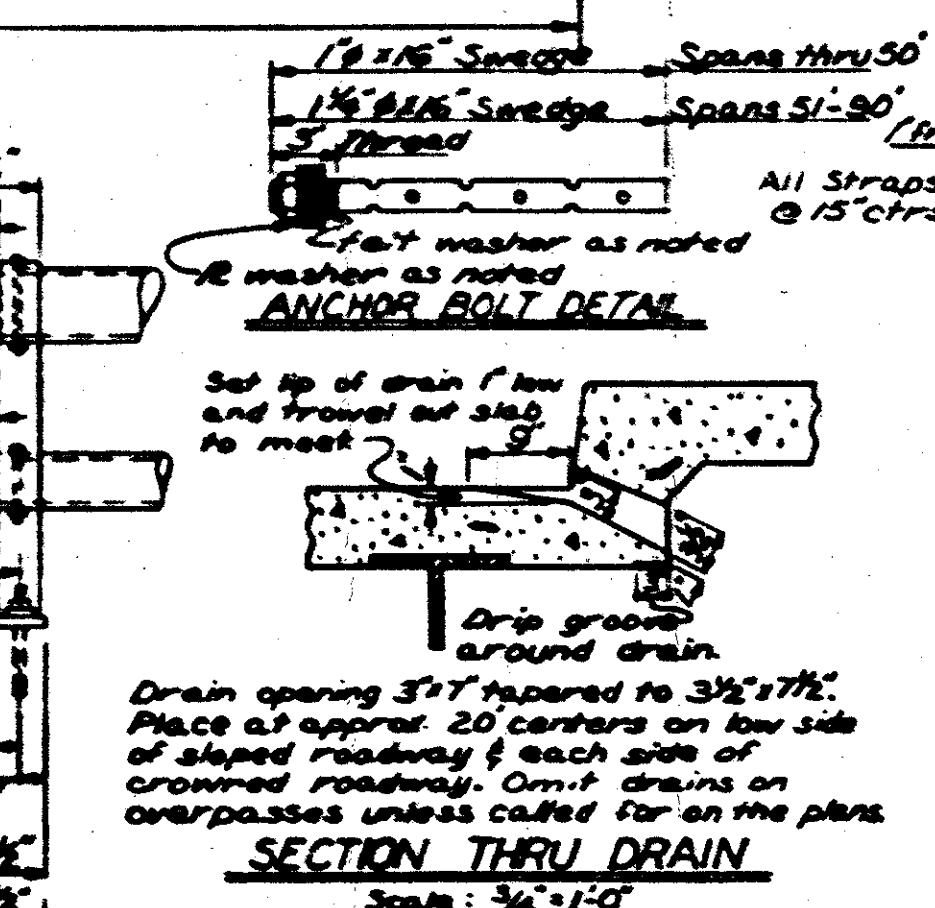
Use for end bents - all spans.
Use for int. bents - 35'-50' sp



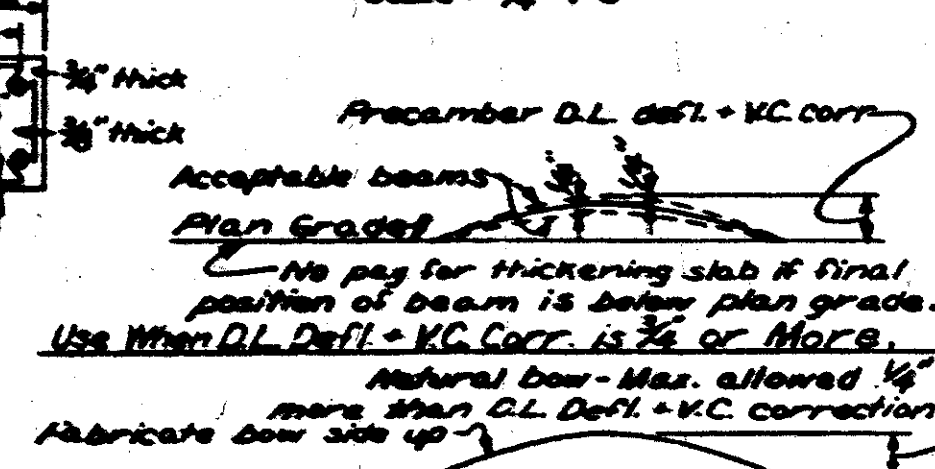
14" Intermediate Bent Drawing.



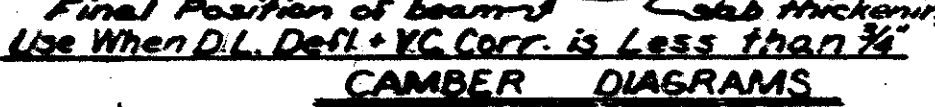
TYPE "A" EXPANSION SHOE



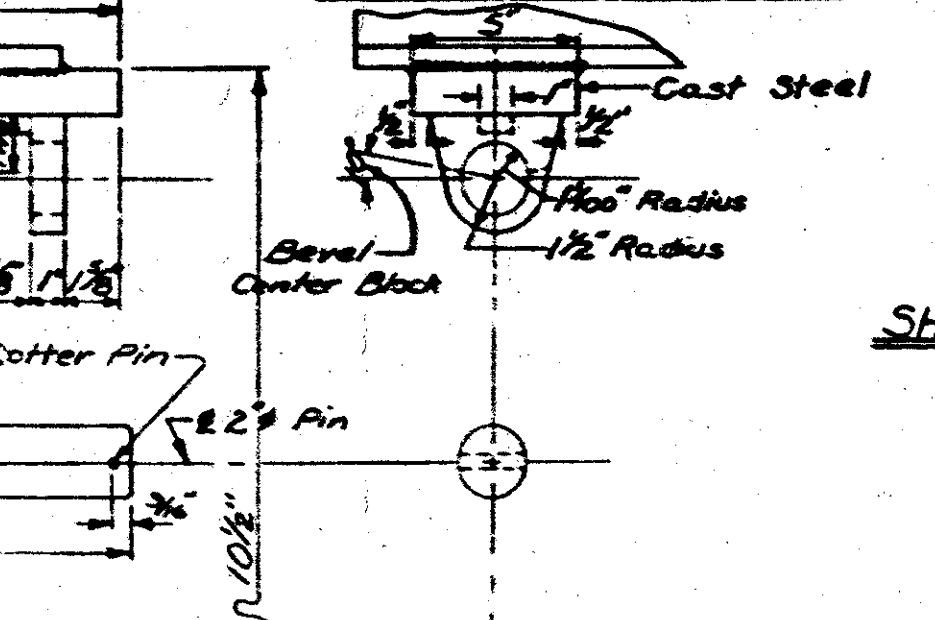
SECTION THRU DRAIN



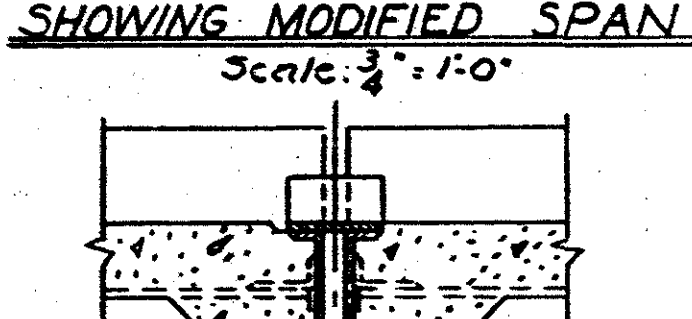
pay for



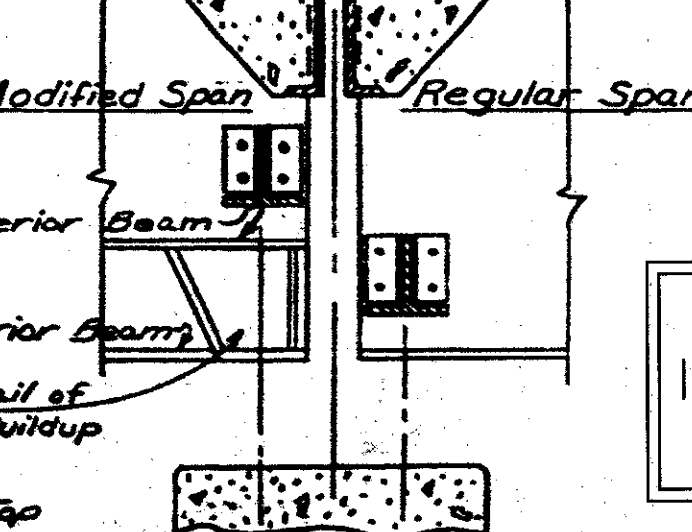
CAMBER DIAGRAMS



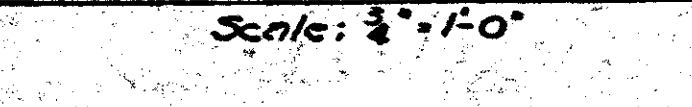
JOINT AT END BENT



JOINT AT INT. BENT
SHOWING MODIFIED AND REGULAR SPAN



SHOWING MODIFIED AND REGULAR SPAN



the 1990s, the number of people in the world who are illiterate has increased from 1.2 billion to 1.5 billion. The number of illiterate people in the world is projected to reach 1.7 billion by the year 2015. The number of illiterate people in the world is projected to reach 1.7 billion by the year 2015.

FOR
INFORMATION
ONLY

COMPOSITE I-BEAM SPANS
20', 24', 26', AND 28' ROADWAYS

ARKANSAS STATE HIGHWAY COMMISSION

RE-DRAWN BY: SM DATE: LITTLE ROCK, ARK.
8 MAR 62

TRACED BY: _____ DATE: _____

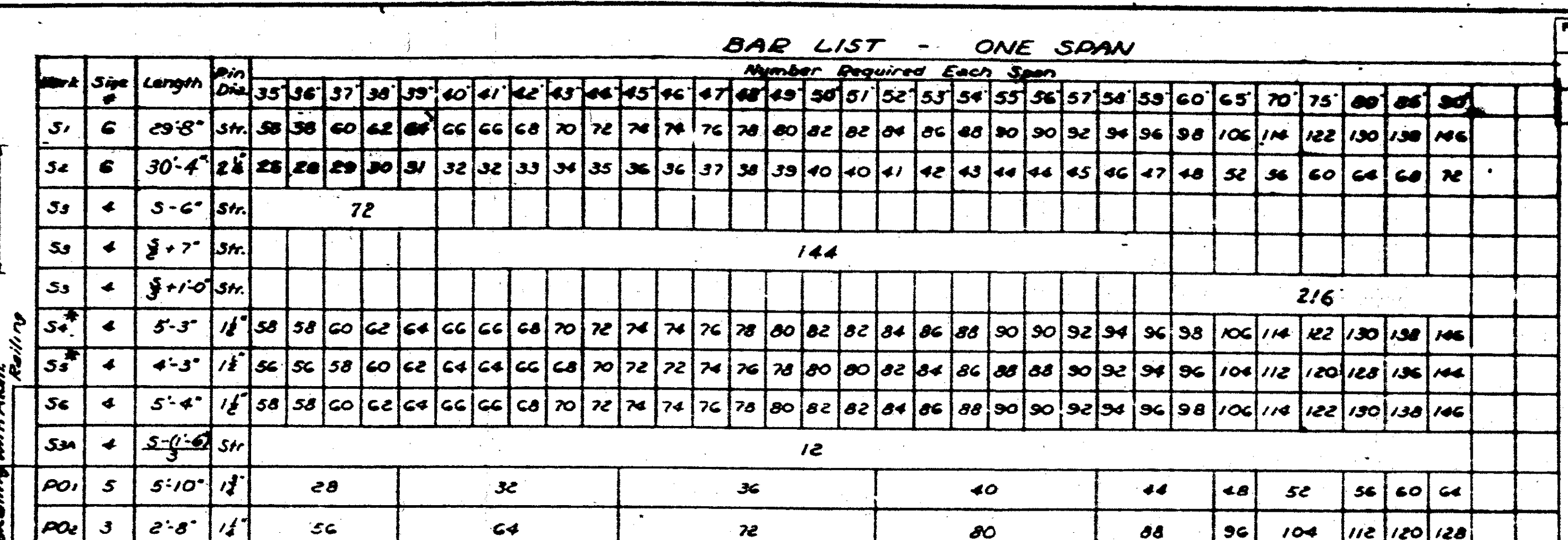
ICE CHECKED BY: L.R. DATE: 3-9-62

SCALE: As Shown

DRAWING NO. 42241

BRIDGE NO. _____

DRAWING NO. 14990



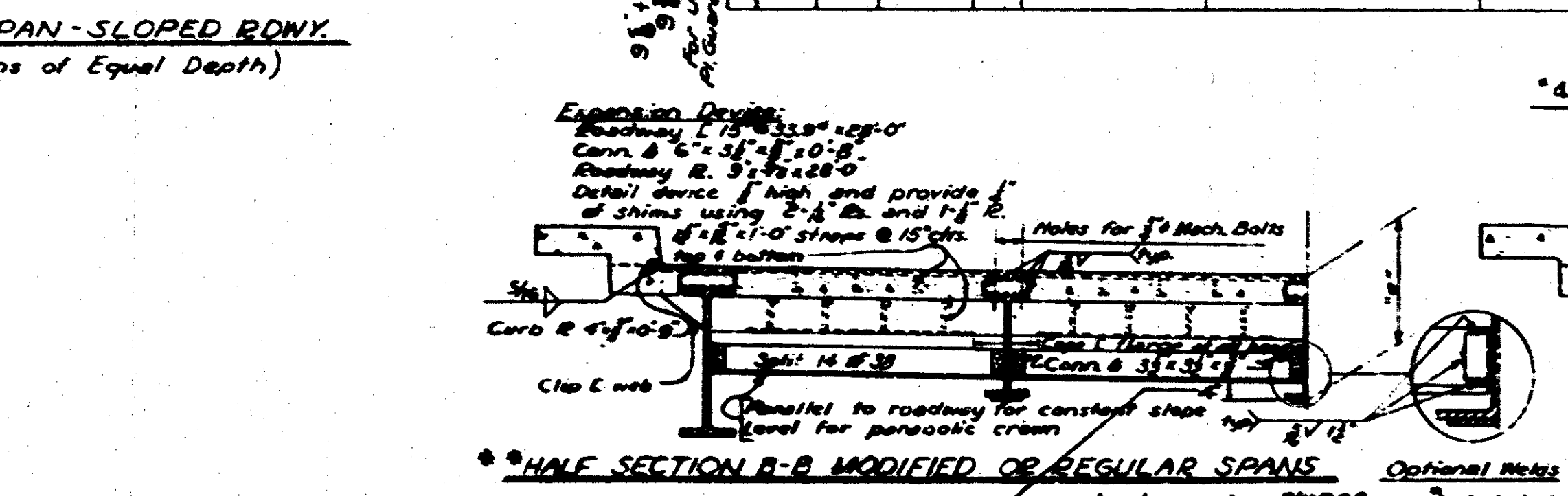
NO.	STATE	NO. OF PAGES	DATE	BY	REVIEWED
6	ARK.				
JOB No.					

The drawing consists of several views of a bridge section:

- Top View:** Shows the plan of the bridge with a total width of 35' and a central span of 21'. It includes a 5' wide approach on the left and a 4' wide approach on the right. Reinforcement is shown with bars labeled '2#', '3#', and '4#'. A note 'Symmetrical' is present.
- Side View:** Shows the cross-section of the bridge with a total width of 35' and a central span of 21'. It includes a 5' wide approach on the left and a 4' wide approach on the right. Reinforcement is shown with bars labeled '2#', '3#', and '4#'. A note 'Symmetrical' is present.
- End View:** Shows the end of the bridge with a total width of 35' and a central span of 21'. It includes a 5' wide approach on the left and a 4' wide approach on the right. Reinforcement is shown with bars labeled '2#', '3#', and '4#'. A note 'Symmetrical' is present.
- Detail Views:** Three rectangular detail views are shown below the main views, each with dimensions and reinforcement details:
 - Left detail: 2' x 1' with 2# reinforcement.
 - Middle detail: 2' x 1' with 2# reinforcement.
 - Right detail: 2' x 1' with 2# reinforcement.

Dimensions are to centers of bars.

BELOWING DIAGRAM



Technical drawing of a modified span sloped roadway bridge section A-A. The drawing includes a plan view at the top showing dimensions for the bridge deck and railing, and a cross-section view below showing the bridge structure and roadway slope. A table on the right provides project information.

Plan View Dimensions:

- Left side: $4 \times 5 \times 5$ S₄
- Right side: $4 \times 5 \times 5$ S₄
- Top dimensions: $1'-7\frac{1}{2}"$, $1'-0"$, $1'-0"$, $1'-5"$
- Bottom dimensions: $2'-4"$, $2'-0"$

Cross Section View:

- Top: 0.014 1/4" Rdwy. Slope
- Center: N
- Bottom: $7'-\frac{1}{2}"$
- Text: "parallel to rdwy slope"
- Text: "for diaphragm information see table"

Table:

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.	B60106	59	86	
03708	EXISTING BRIDGE	-	42242	

Section A-A of Modified Span Sloped Rdwy




Diagram for 44'-51' spans

 6 Joint

 Spacing for Channel Shear Connectors

 Section of exterior beam is for regular spans only.

SHEAR CONNECTORS
Scale 1" = 1'-0"

Max. thickness of part, under $\frac{3}{4}$ " to 1" $\frac{1}{2}$ "

Do not shear connectors on outside beams of modified spans when using beams shown to right of heavy line.

DETAILS OF COVER PLATES
Scale: $\frac{1}{2}$ " = 1'-0"

LOADING: H2O - 3KG (A.A.S.H.O. 1961) and Special In

INTERIOR BEAM		EXTERIOR
<u>Deck Load:</u> a. 10% Deck - 56% + 1.1 (wt/ft of str.) b. 7% Composite Beam (1) Plate Guard Br. Railing 30% (2) Aluminum Br. Fencing 14.5%		76% + 1.1
<u>2. Live Load:</u>		

UNIT STRESSES

Class S Concrete (n=10)	1,200 psi
Structural Steel (A-36)	20,000 psi
Reinforcing Steel	20,000 psi

DIAPHRAGM TABLE

SPAN LENGHTS	Channel Size	Regular Span		Modified Span	
		Int. Br.	Ext. Br.	Int. Br.	Ext. Br.
35'-45'	12LC207	5	5	5	5
44'-51'	12LC207	7	7	7	7
52'-79'	15LC319	8	8	8	8
80'-90'	15LC319	8	8	8	8

Revised:
Modified:
Added:
20-10-65

* Interior Beams are same as in Regular Spans. Exterior Beams are the lightest section of same nominal depth as beams for longest span shown on Bridge Layout.

Note: These dimensions are for interior beams. For exterior beams these dimensions shall be shortened by 1" For Cover Plates. See Table

VARIABLES OF SHEAR CONNECTOR SPACING

Span	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	65	70	75	80	85	90			
2'	16	14	9	10	8	9	10	12	8	8	8	8	8	8	8	15	12	11	10	16	13	12	7	7	9	10	10	12	11	12	7				
3'	6	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
4'	12	8	9	11	13	14	12	13	10	7	9	8	7	8	8	11	10	9	9	10	11	11	9	7	7	9	9	11	10	10	9	9	9		
5'	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
6'	10	10	7	7	8	8	8	8	8	8	8	8	8	8	8	10	9	10	6	13	9	9	7	8	8	8	8	7	6	7	9	6			
7'	7	6	8	8	8	7	7	7	10	10	9	9	9	9	9	10	11	11	10	10	11	16	15	16	15	16	15	16	15	16	15	16	21		
8'	6	5	6	7	7	7	7	7	7	7	7	7	7	7	7	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
9'	10	8	11	11	10	10	10	10	10	10	10	10	10	10	10	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
10'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Note: Stud shear connectors, granular flux filled, solid fluxed, or equal may be used in place of the channels shown at the following ratios: $\frac{3}{8}$ diameter stud in place of 1.82 inches of channel, $\frac{1}{2}$ diameter stud in place of 2.52 inches of channel. The studs shall be 6" long and automatically welded to the beam flanges in accordance with recommendations of the manufacturer. Channel sections will be used as basis for determination of structural steel in shear connectors.

NOTE
This drawing is to be used with drawing no. 14990A.
For General notes see drawing no. 14990A.

90%
142%

FOR INFORMATION ONLY

DETAILS OF STANDARD	
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96	96.1
97	97.1
98	98.1
99	99.1
100	100.1

G	H	<p>35'-90' COMPOSITE I-BEAM SPANS</p> <p>28' CLEAR ROADWAY 1'-6" & 1'-7½" CURBS</p> <p>ROADWAY: 1½" Parabolic Crowns 0.0104% SLOPE</p> <p>ARKANSAS STATE HIGHWAY COMMISSION</p>
3 ½"	2 ¼"	
7"	5"	
7"	5"	
8"	5"	

Notes 3-7-64
 Personal Const. Joint in Comb
 (25)
 L. P. Cushman
 PREPARED BY L.P.C. DATE 3-7-64
 CHECKED BY --- DATE ---
 RE-ENGINEERED BY --- DATE 10-21-64
 DRAWING NO. 42242
 DRAWING NO. 15030

407 (1975) = 800 VPD

NBC
10 Hickory

1480' 54.6' 96.7' 1480' 74.7'

FED. ROAD DIST. NO.	STATION	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	ARK	141-4	(9)/93	33	32
JOB NO. 6717					

- Notes:
1. Roadway Elevations shown are at \pm of Bridge.
 2. Vertical Dimensions are: (1) from \pm Bridge at \pm Bent to low side of Cap and (2) from low side of Cap to bottom of Footing.
 3. Vertical Dimension (1) [See Note 2] includes $\frac{1}{8}$ " for convex deck & road.
 4. No Drains to be used on this Bridge.

Table of Variable Dimensions*

Span	Beams	Over Filling	Rail Road Spacing	Strut Spacing	Dim	D.L. Distances
66'-0"	Ext. Int.	Ext. Int.	a b c	No. Q d	e	Ext. Int.
33'11"120	33'11"120	9' 8" 38'	9' 8" 38'	7'-0" 8'-2"	6'	4' 6" 16' 6"
						3'-2" 3'
						1 1/2"

*The above table is to be used with Std. Dwg. 15030. Use shear connector spacing for 65'-0" span, except use $i=11$ instead of 9, and use $K=6$ instead of 8. Use $p=10'$ instead of 0'.

Mark	S1	S2	S3	S4	S5	S6
No.	106	52	216	12	106	106

*Revisions to Bar Lists shown on Lwg. #15030.

PLAN

+3.00% -3.00%

PVI
Sta 37+20.3
Elev. 240.41
V.C. = 900'

Aluminum Bridge Railing - Alternate #1
Metal (Steel) Bridge Railing - Alternate #2

GENERAL NOTES

Specifications:
Arkansas State Highway Commission
Standard Specifications for Highway
Construction adopted Dec. 9, 1959
Design Loading: H20-S16 AASHTO 1961
Stresses:
Class A Concrete (n=15) 840 #/ft²
Class S Concrete (n=10) 1200 #/ft²
Reinforcing Steel 20,000 #/ft²
Structural Steel (A-36) 20,000 #/ft²
All Piles to be 16" Concrete Filled Metal
Shells or 16" Octagonal Precast Piles
Piles in End Bents 1 & 5 to be driven after
the Embankment is in Place
Lengths of Piling shown are for Estimating
Purposes only. Actual Lengths to be
determined in the Field. Drive one 60' Test
Pile in Bents No. 2 and No. 4.
All Piles to be driven to a minimum Bearing
of 36 ton/pile

REFERENCES

For Superstructure Details see Drawing No. 15030,
Drawing No. 14990 & Table of Variable Dimensions,
this sheet
For Substructure Details see Drawing No. 15030A
& Drawing No. 571-2
For Precast Concrete Pile Details see Drawing
No. 2382.
For Concrete Filled Metal Shell Piles see Drawing
No. 2281A.
For Concrete Riprap Details see "Summary of
Bridge Quantities" sheet.

Revised & Corrected 8-30-64 JMG
CML/gmt

ARKANSAS STATE HIGHWAY COMMISSION	
LITTLE ROCK, ARKANSAS	
INTERSTATE ROUTE 40	SECTION
LAY-OUT	
STATE HIGHWAY 11 UNDERPASS	
BRIDGE NO. 3708	DATE
DRAWING NO. 571-1	
CONSULTING ENGINEER	

A.H.D. DRAWING NO. 12735

FILE NO.	6
DATE	10/25/67
SCALE	1" = 1'-0"
PROJECT	ARKANSAS STATE HIGHWAY COMMISSION
BRIDGE NO.	14990

GENERAL NOTES

All concrete to be Class S. All exposed corners to be chamfered. Field connections to be riveted or bolted with high strength bolts. Rivets: 3/4" diam holes 3/8" except where noted otherwise. Structural shapes of equal or greater strength may be substituted for shapes shown, but flanges must be in the same plane as the original shapes. All shapes to be fireproofed in accordance with the American Institute of Steel Construction, Inc. Specifications for Welded Highway and Railway Bridge Structures. Shop Paint: All structural steel except surfaces in contact with concrete shall be given one coat of red lead and two coats of zinc-rich paint. Field Paint: First coat - red lead with lamp black. Second coat - zinc-rich paint. All metal bearing and roadway expansion devices to be painted as specified. All metal bearing and roadway expansion devices shall be finally sealed in accordance with Sec. 906.5, including the application of the "Sealant" and material to be considered as a permanent seal. This drawing shall be used in conjunction with the "Sealant" and material to be considered as a permanent seal. All steel shall be ASTM A-36 unless otherwise noted. Anchor bolts shall be galvanized to conform to ASTM A-574 Specification, Designation A-574.

DETAILS COMMON TO STANDARD 35'-90' COMPOSITE I-BEAM SPANS

DETAILS OF ALTERNATE ANCHORS

As an alternate for spans 35'-90" and detail of optional beam building and alternate design of 1-24-68 DR.

DETAILS OF ALTERNATE ANCHORS

As an alternate for spans 35'-90" and detail of optional beam building and alternate design of 1-24-68 DR.

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As an alternate for spans 35'-90" and detail of optional beam building and alternate design of 1-24-68 DR.

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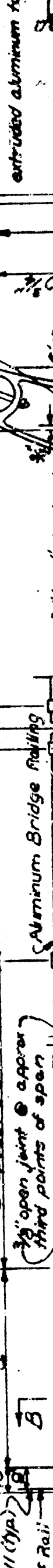
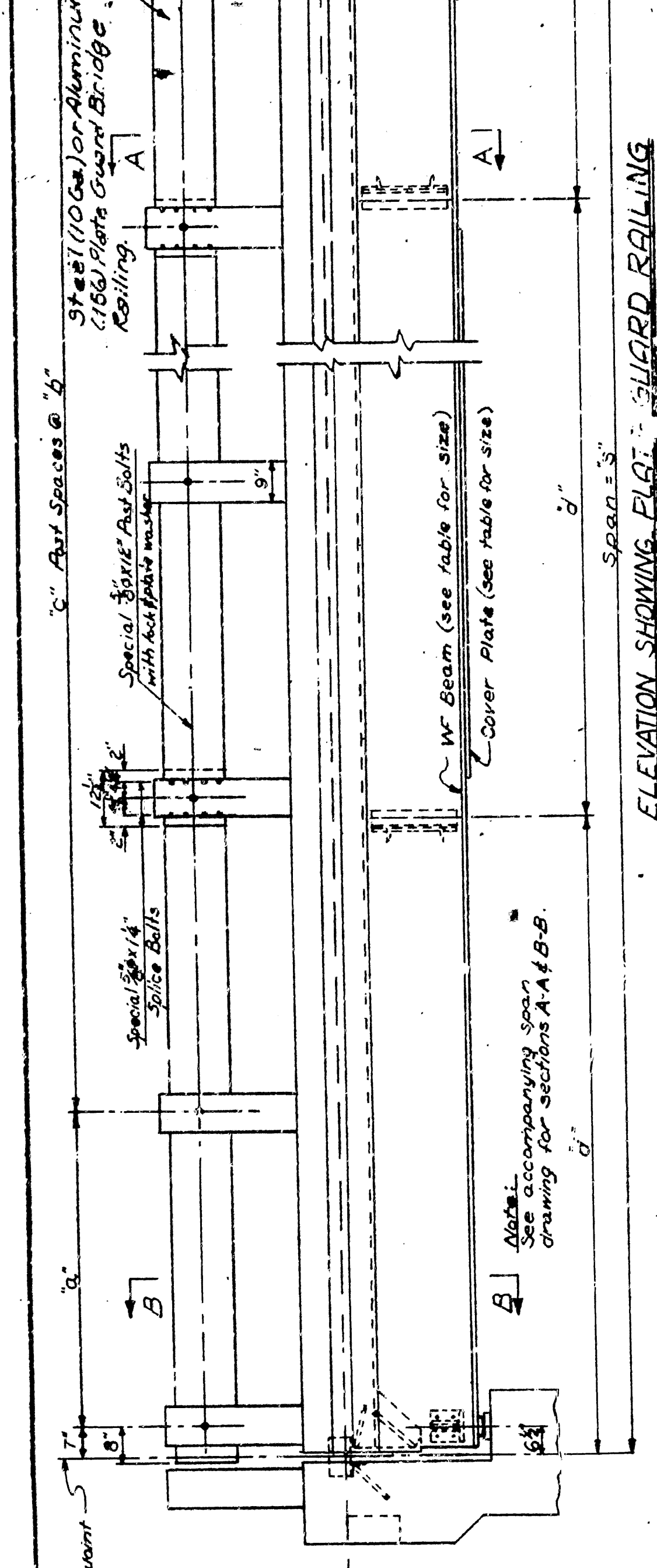
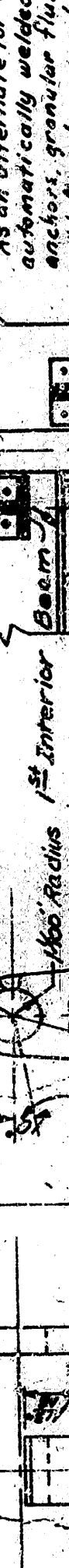
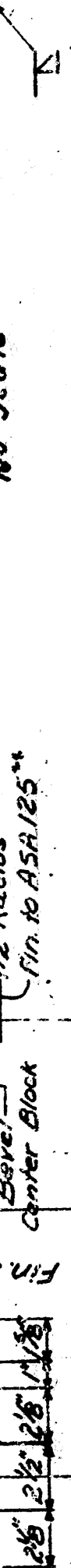
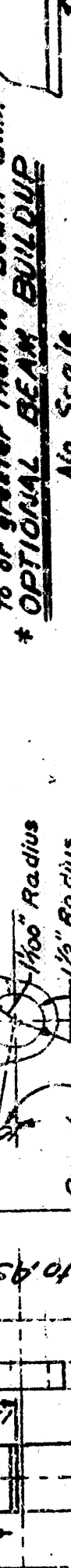
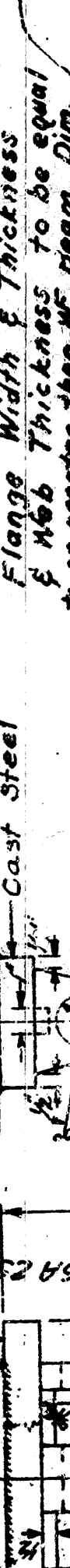
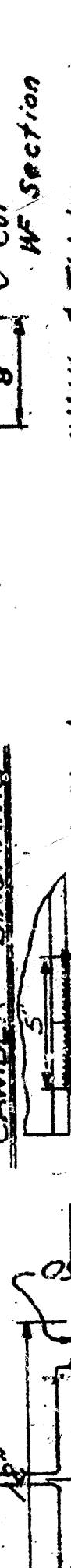
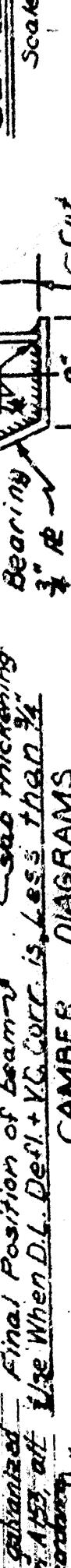
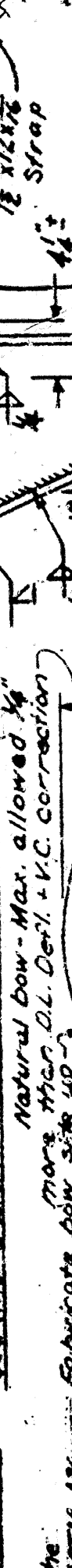
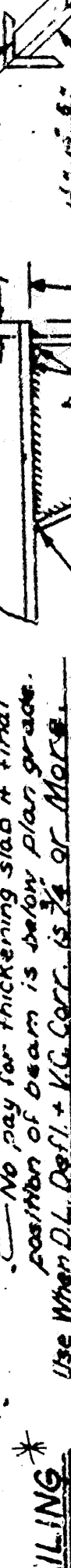
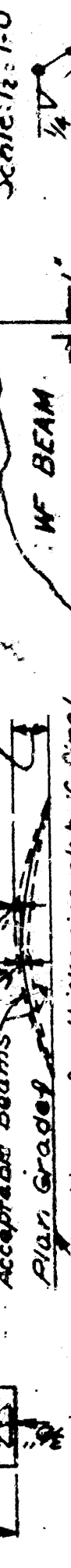
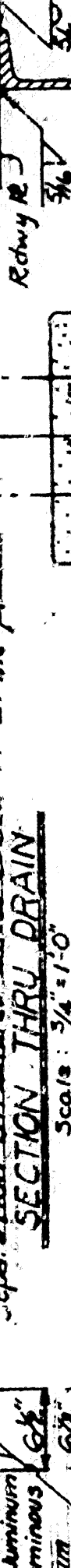
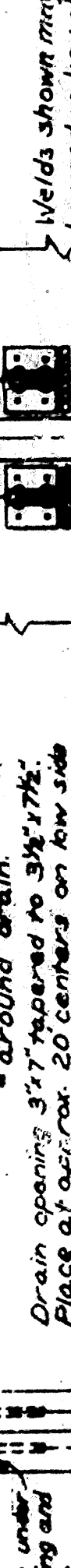
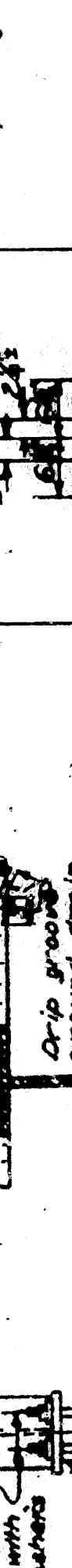
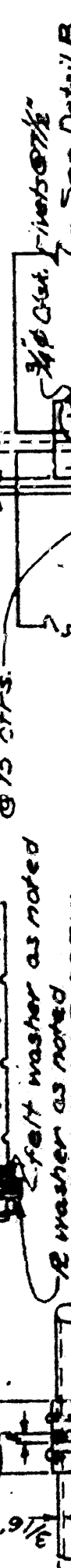
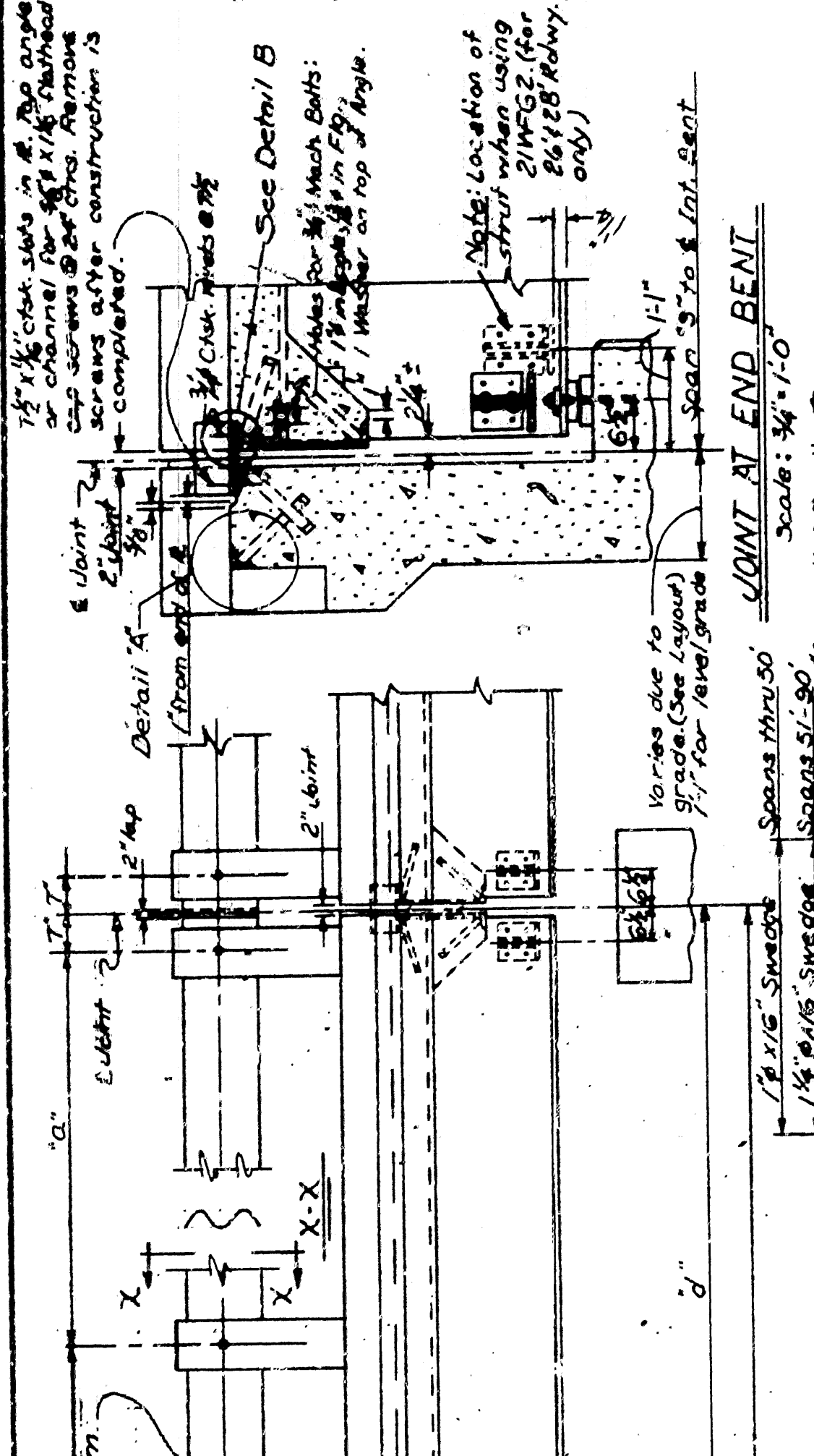
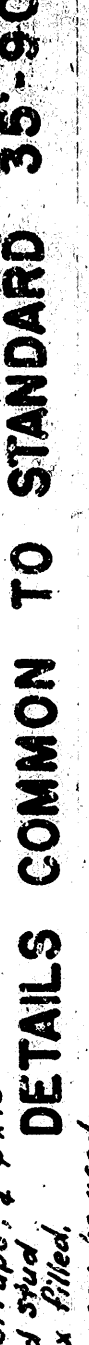
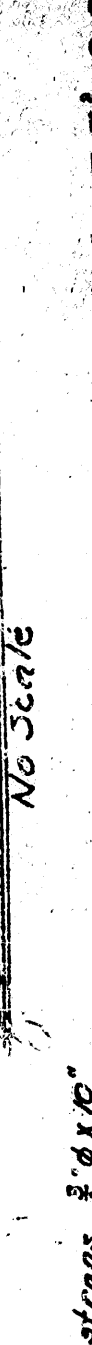
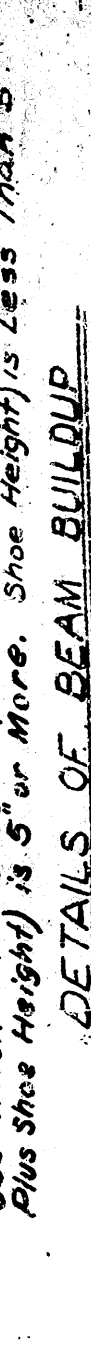
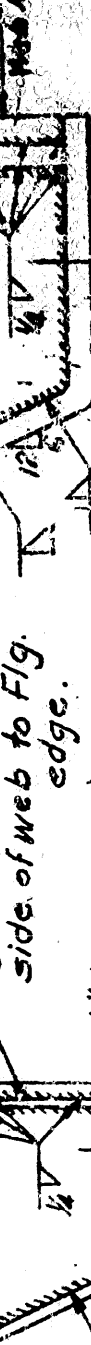
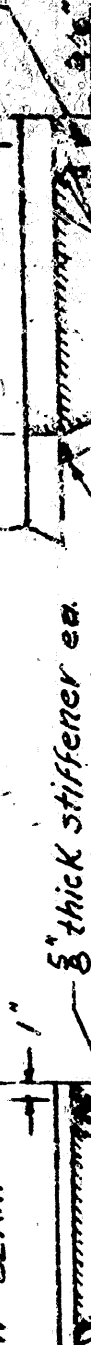
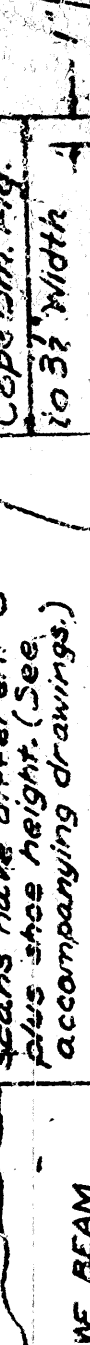
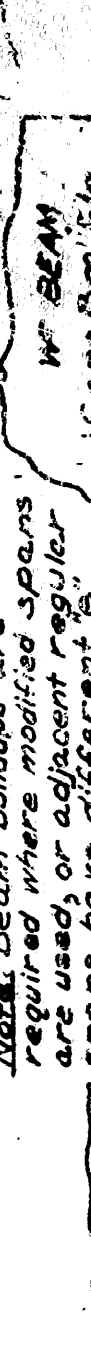
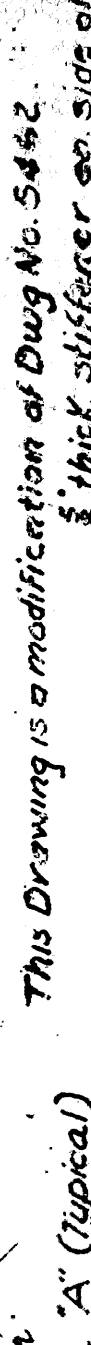
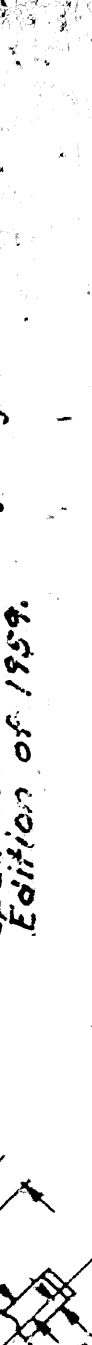
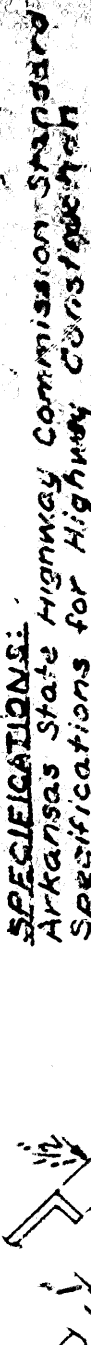
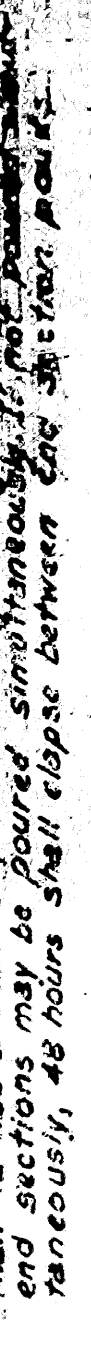
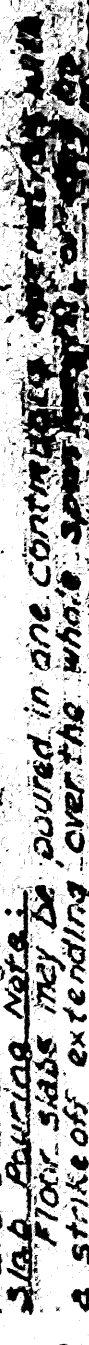
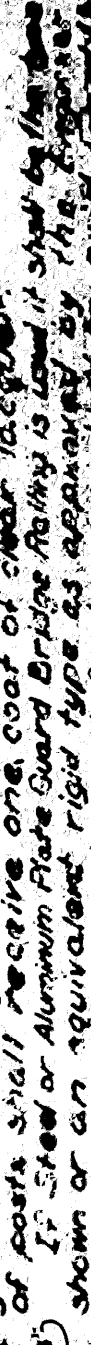
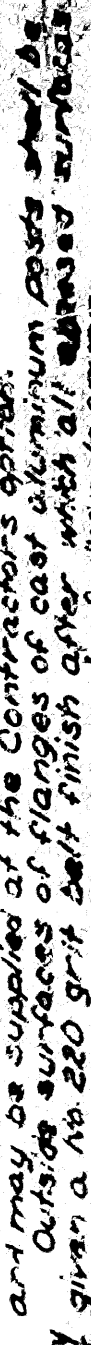
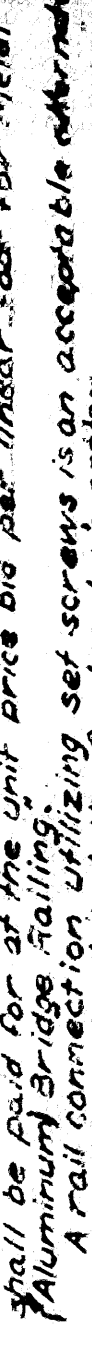
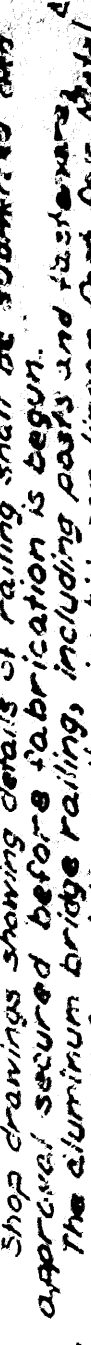
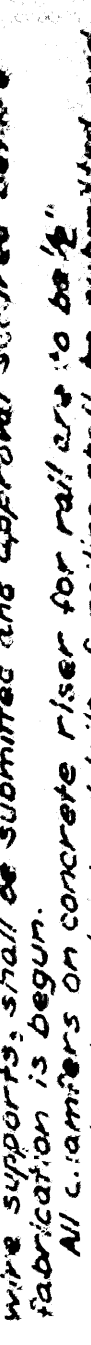
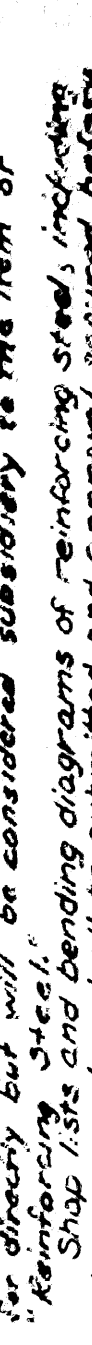
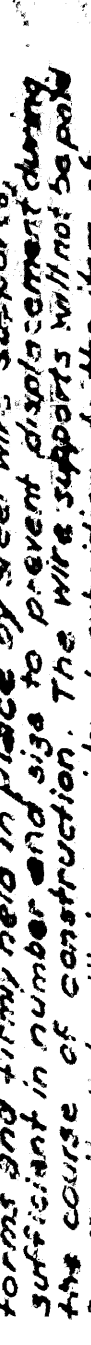
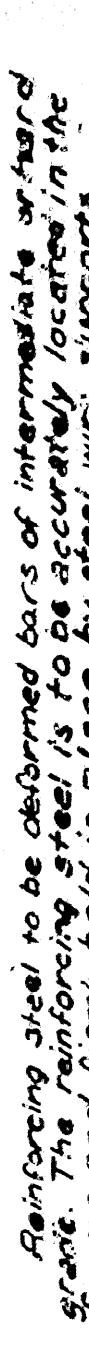
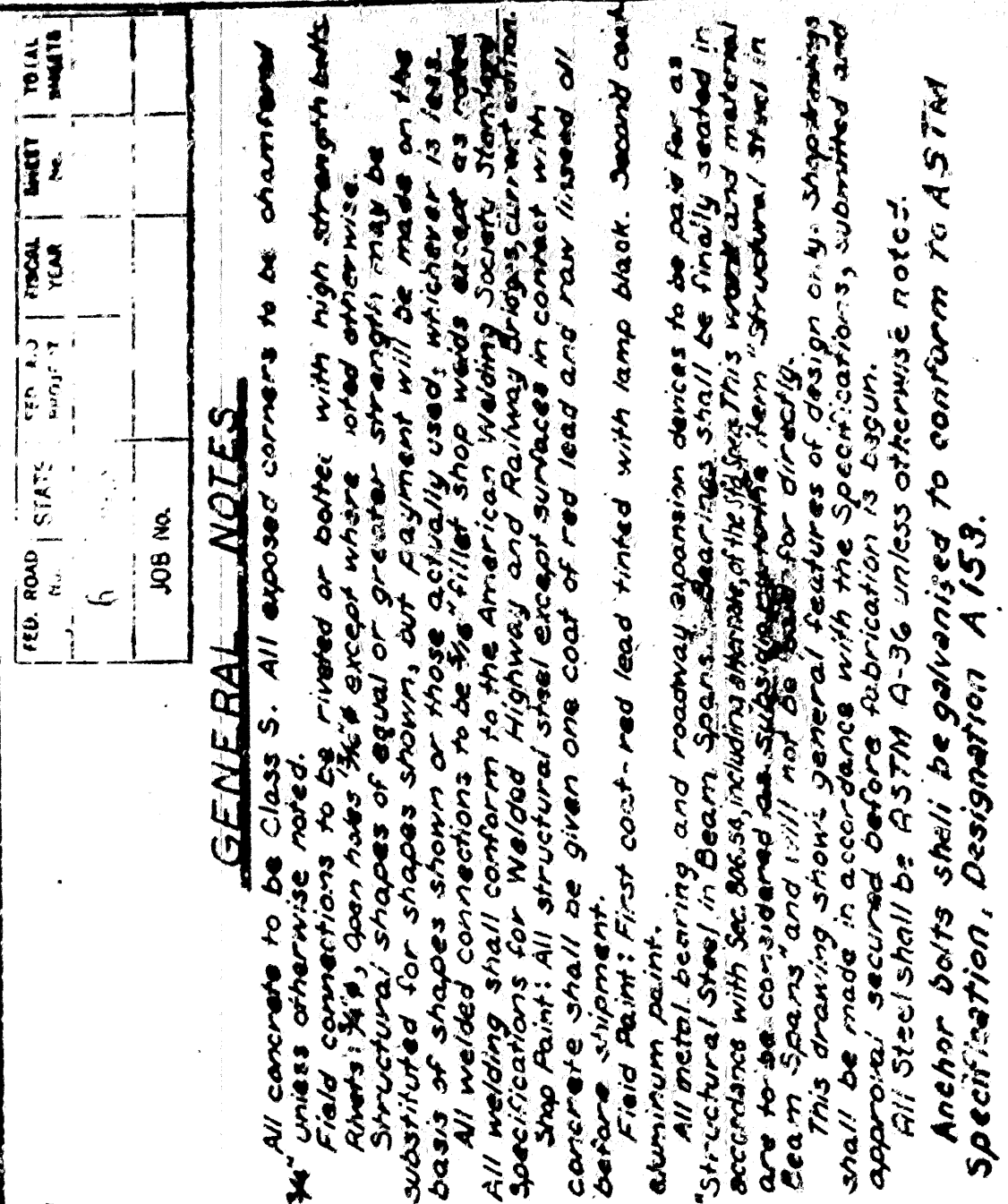
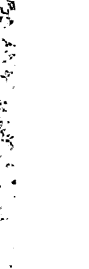
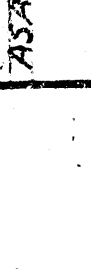
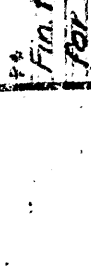
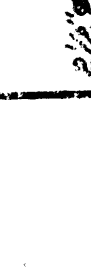
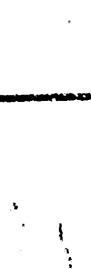
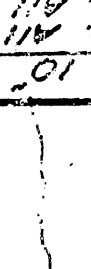
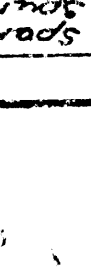
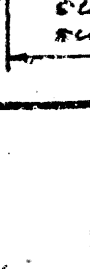
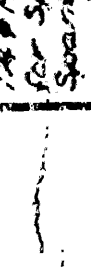
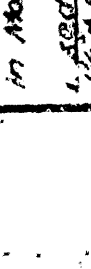
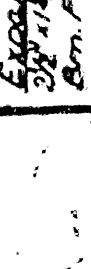
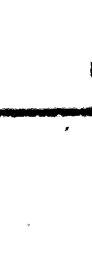
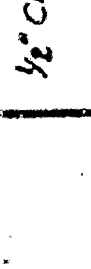
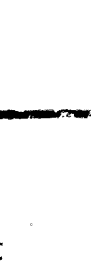
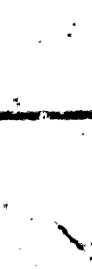
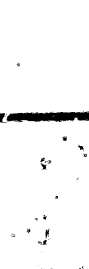
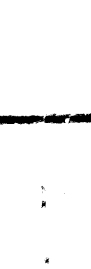
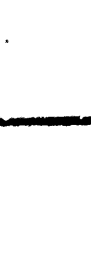
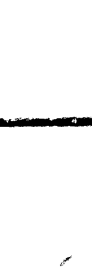
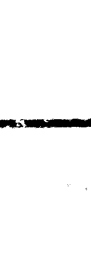
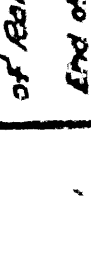
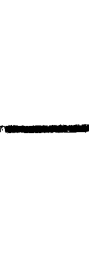
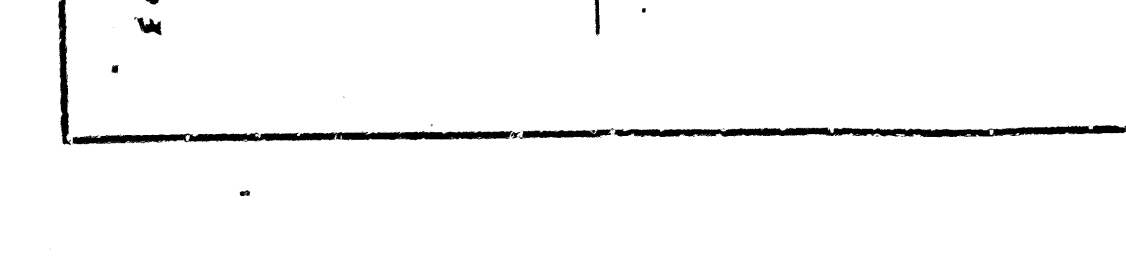
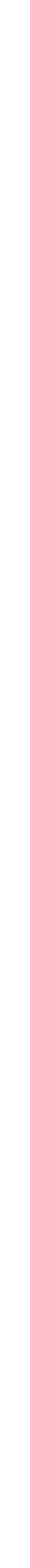
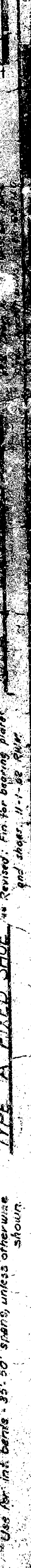
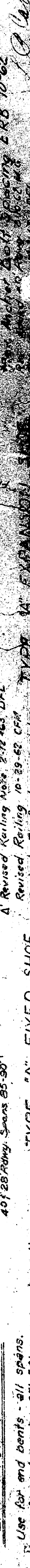
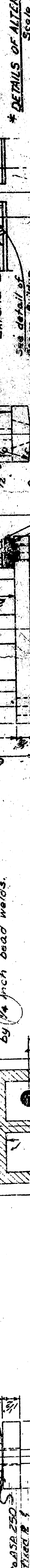
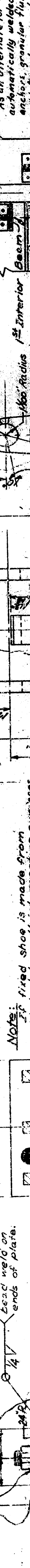
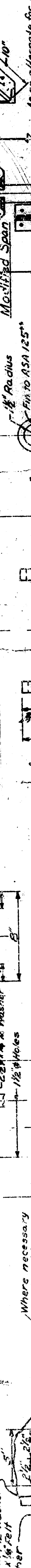
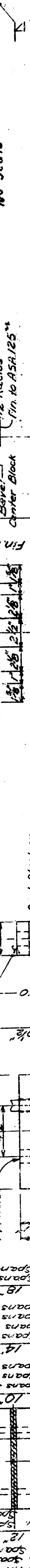
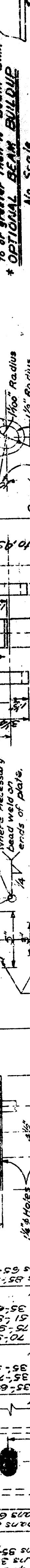
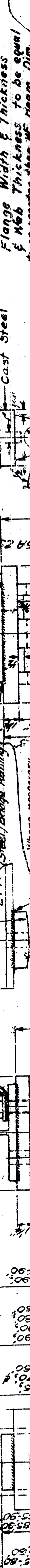
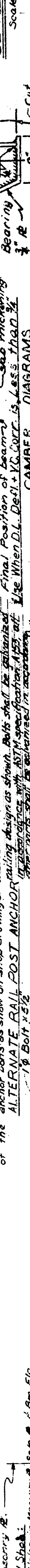
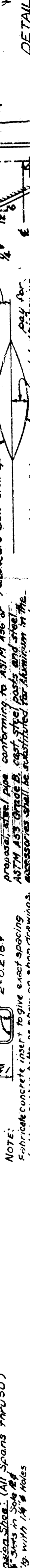
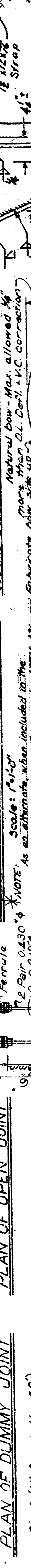
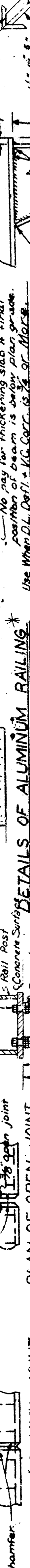
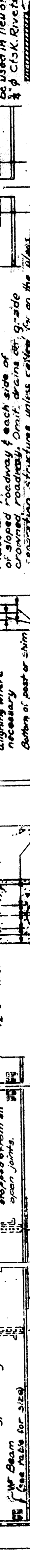
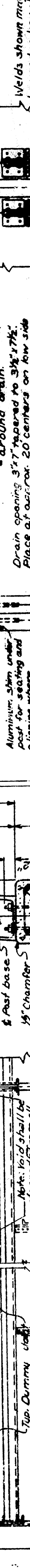
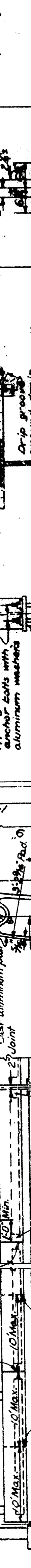
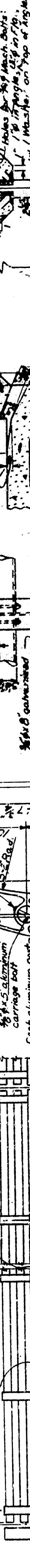
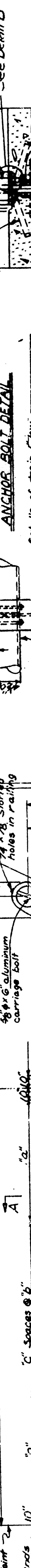
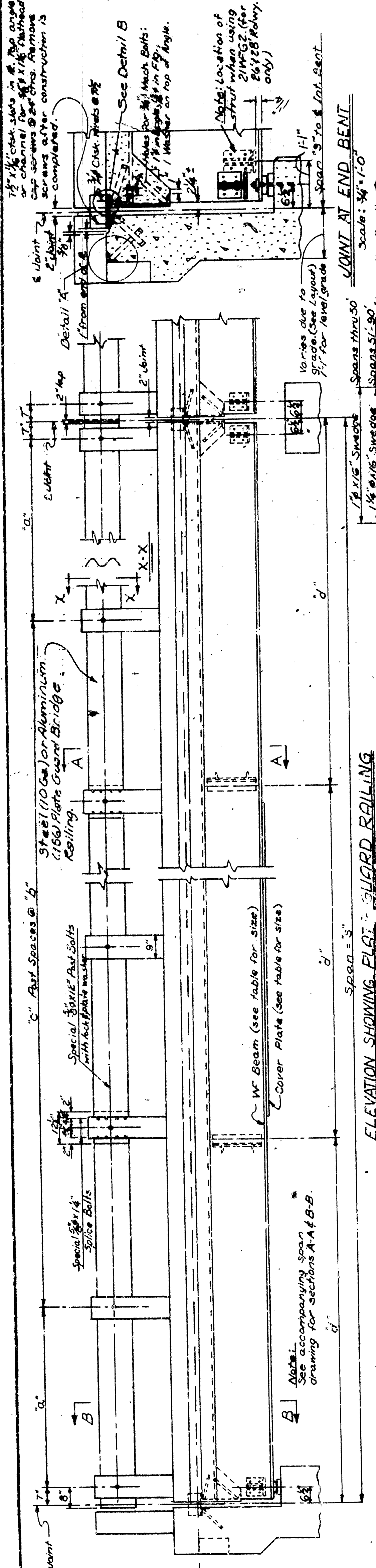
As an alternate for spans 35'-90" and detail of optional beam building and alternate design of 1-24-68 DR.

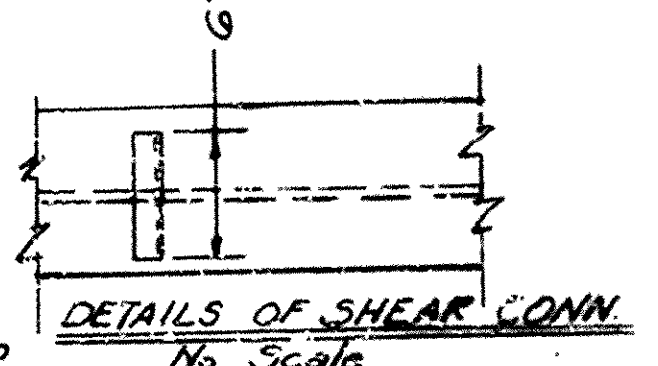
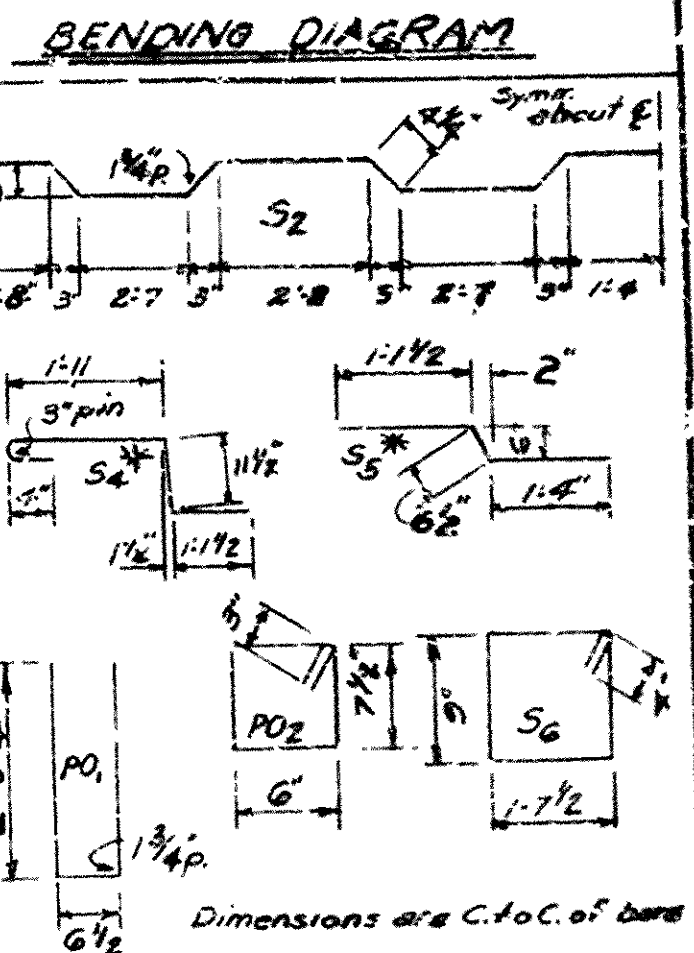
DETAILS OF ALTERNATE ANCHORS

As an alternate for spans 35'-90" and detail of optional beam building and alternate design of 1-24-68 DR.

DETAILS OF ALTERNATE ANCHORS

As an alternate for spans 35'-90" and detail of optional beam building and alternate design of 1-24-68 DR.





Note: $f_c = 1"$ for Regular all beams $\frac{1}{4} \times \frac{1}{2}$
Span.
HALF SECTION B-B FOR MODIFIED OR REG. SPANS

[illegible]

DETAILS OF COVER PLATE
Scale: $3/4" = 1'-0"$

Revised: 12-25-65
Revised: Added Optional Const. Joint
in Curb (10-10-63) JAS / FEB, WHO-63)

DRAWN BY: WAS DATE: 4-16-62
 CHECKED BY: WAS DATE: 4-16-62
 COUNCILING BY: FMH DATE: 4-17-62
 BRIDGE NO. 1501 DRAWING NO. 1501

