

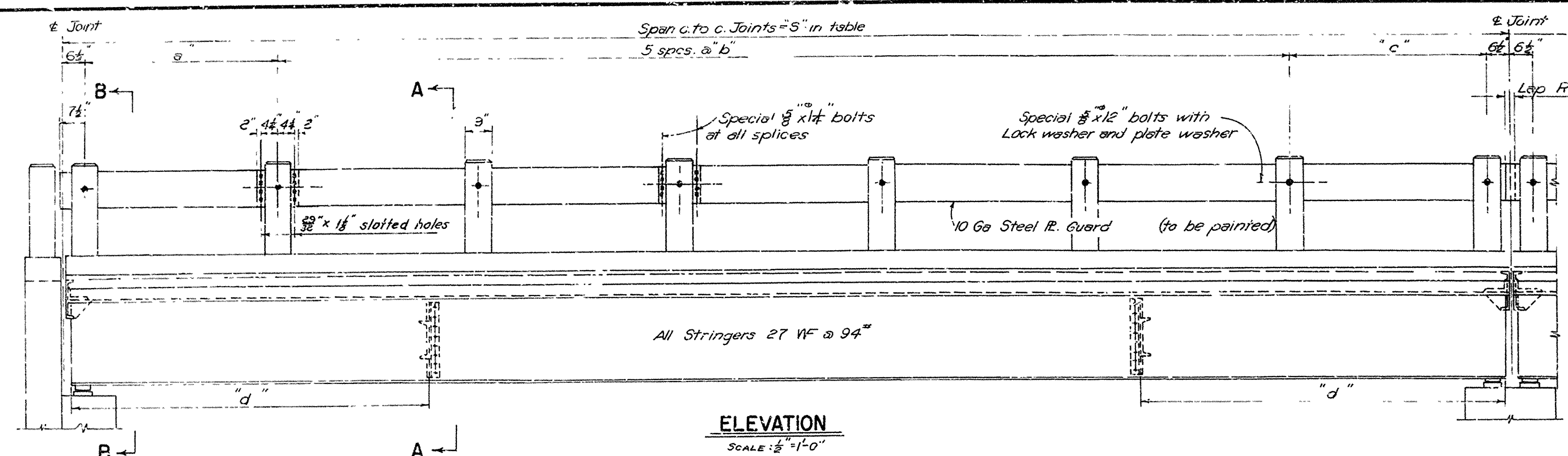
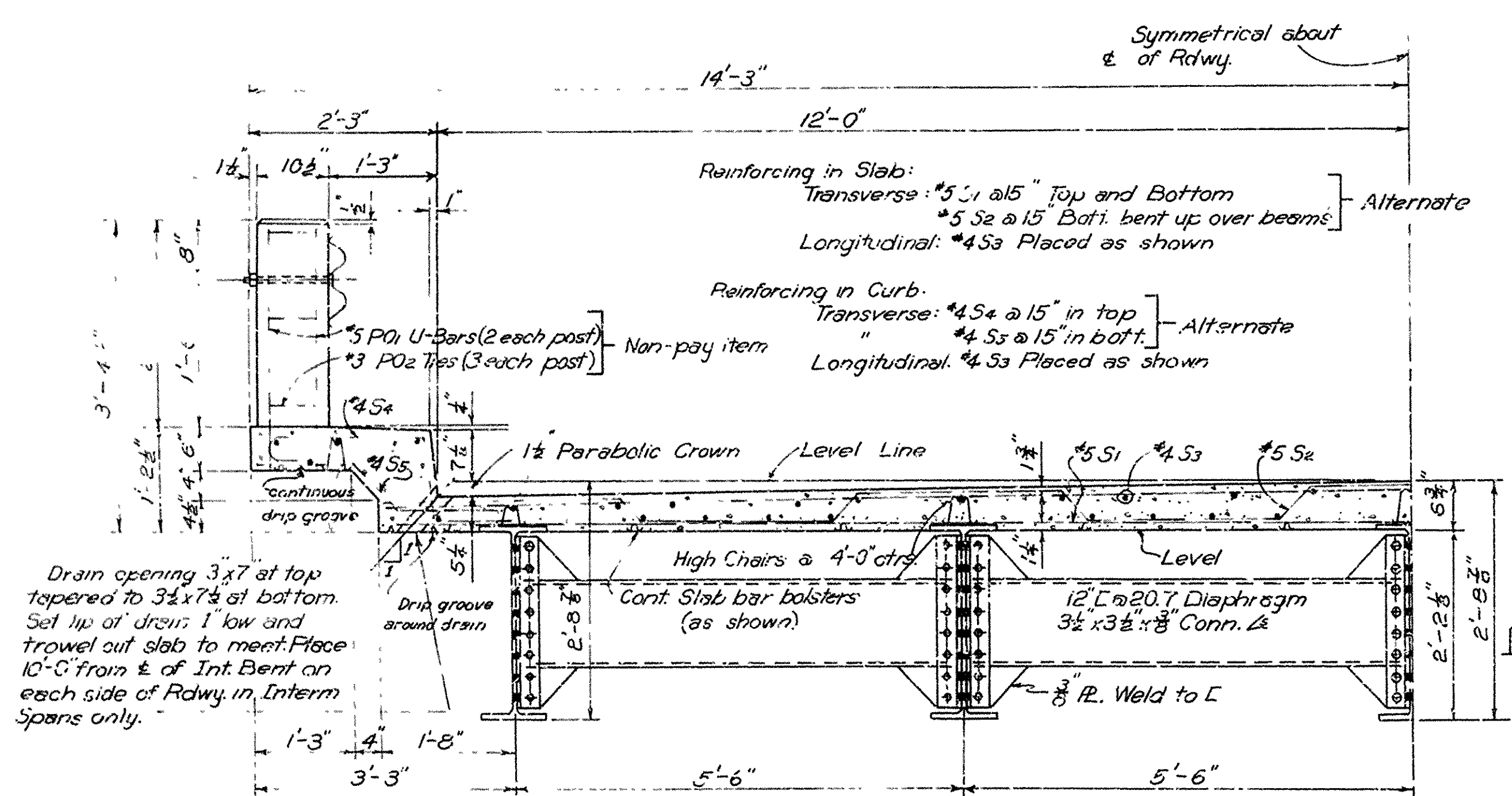
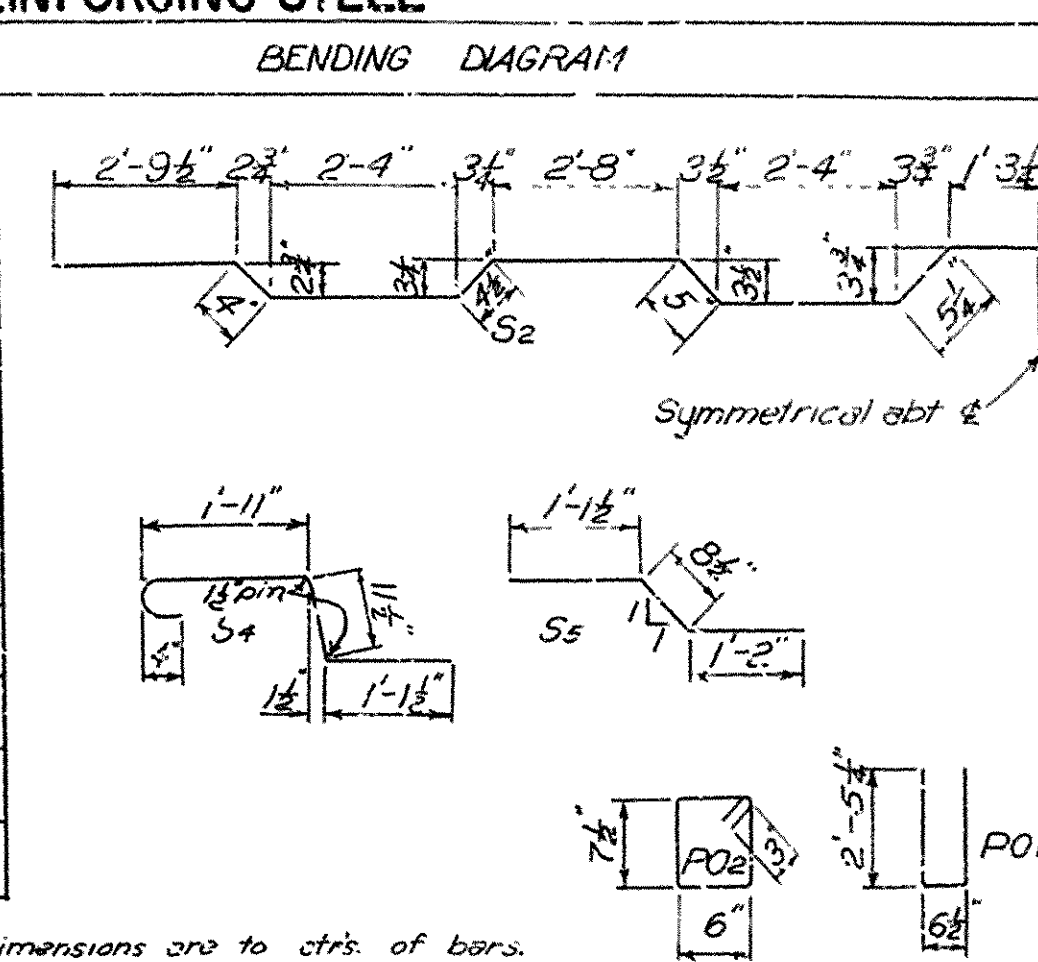
FED. ROAD NO.	STATE	PROJECT	DATE	BY
6	ARK.	5-50(9)		
JOB No.	12325	5	104	

SUMMARY OF BRIDGE QUANTITIES JOB NO. 10325 (CODE No. X03i)

ITEM NO.	ITEM	UNIT	BRIDGE NO. 2905			BRIDGE NO. 2906				BRIDGE NO. 2907				BRIDGE NO. 2908			TOTAL JOB NO. 10325
			BENTS 1 & 2	SPAN 1	TOTAL	BENTS 1 & 6	BENTS 2-5	SPANS 1-5	TOTAL	BENTS 1 & 4	BENTS 2 & 3	SPANS 1-3	TOTAL	BENTS 1 & 2	SPAN 1	TOTAL	
103	Dry Excavation For Structures	Yd.	66		66	116			116	84			84	93		93	359
SP & 802	Class "S" Concrete For Bridges	Cu. Yd.	25.00	31.82	56.82	23.84	23.52	117.15	164.51	20.54	10.34	61.65	92.53	22.07	31.78	53.85	367.71
SP & 803	Reinforcing Steel	Lb.	3039	5660	8699	2880	3380	20,325	26,585	2730	1690	10,905	15,325	2623	5736	8359	58,968
SP & 804	Concrete Piling (16" Octagonal)	Lin. Ft.	355		355	448	712		1160	348	237		585	313		313	2413
SP-805-3	Steel Plate Guard Rail (10 ga.)	Lin. Ft.	18.33	110.00	128.33	18.13		400	418.13	15.67		210	225.67	15.83	110	125.83	897.96
807	Structural Steel in Beam Spans	Lb.	1368	38,828	40,196	884		109,360	110,244	778		48,156	48,934	1186	38,546	39,732	239,106
929	Bridge Name Plates (Type 'C')	Each	1		1	1			1	1			1	1		1	4
* SP-1052-7	Removal of Existing Bridge Structures	Complete Item			27%				0				46%			27%	100%

* This work shall include the maintaining of traffic during construction. The Contractor shall assume full responsibility for uninterrupted movement of traffic and shall construct and maintain a detour at Bridges 2905, 2907 & 2908, consisting of a temporary bridge and connecting gravelled ramps. The temporary structure shall have a minimum roadway width of 14 feet and a minimum design capacity of H12½ loading. Details of construction, kind and condition of materials shall be submitted for approval prior to construction. Materials from existing bridges may be used for this purpose provided they be not cut or otherwise damaged.

SUMMARY OF BRIDGE QUANTITIES
LEPANTO - NORTH
POINSETT & CRAIGHEAD COUNTIES
ROUTE 143 SEOS. 1&2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By W.H.L. Date 8-26-53
Traced By W.H.L. Date 8-26-53
Checked By W.H.L. Date 8-26-53
BRIDGES NO. 2905-2908 INCL. DWG. NO. 8363

[illegible]

LIST OF VARIABLES

Spans C. to c. jts	Post Spacing			Strut Spac'ing	D.L. Defl.
"S"	"a"	"b"	"c"	"d"	
40'-0"	5'-8"	5'-6½"	5'-6½"	10'-0"	1½"
41'-0"	5'-11"	5'-8"	5'-8"	10'-3"	½"
42'-0"	5'-11"	5'-10"	5'-10"	10'-6"	9/16"
43'-0"	5'-11"	6'-0"	6'-0"	10'-9"	5/8"
44'-0"	6'-2"	6'-1½"	6'-1½"	11'-0"	11/16"
45'-0"	6'-6"	6'-3"	6'-2"	11'-3"	3/4"

GENERAL NOTES

All concrete to be Class S. All exposed corners to have $\frac{3}{4}$ " chamfer unless otherwise noted.

Field Connections for diaphragms to be riveted or bolted with high strength bolts.

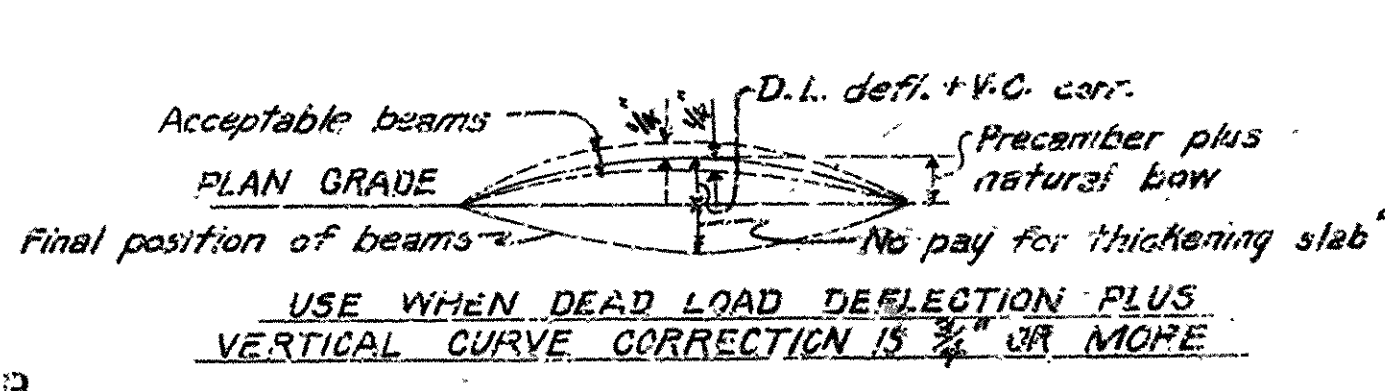
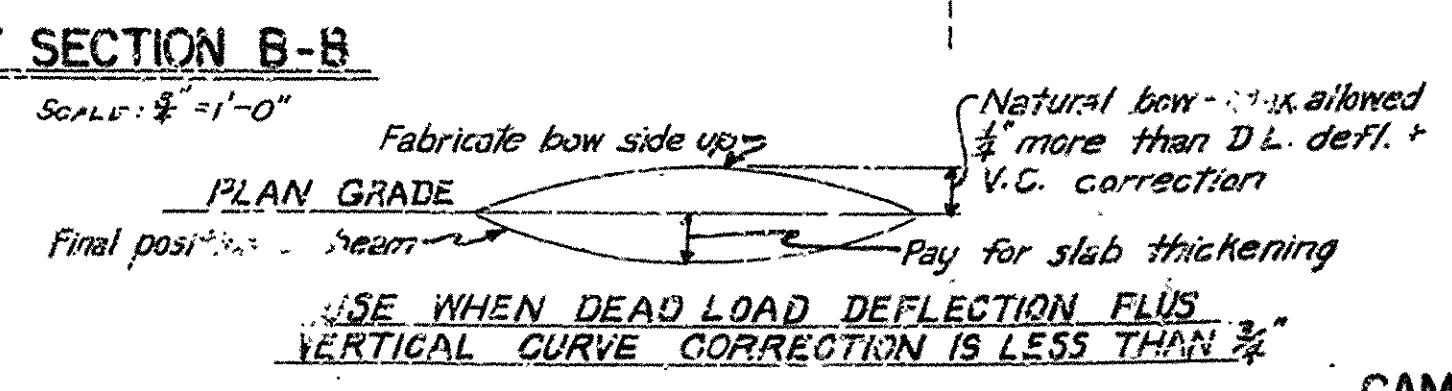
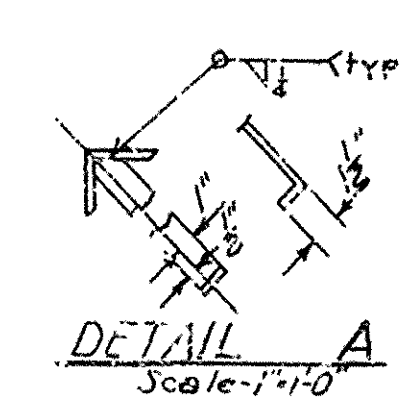
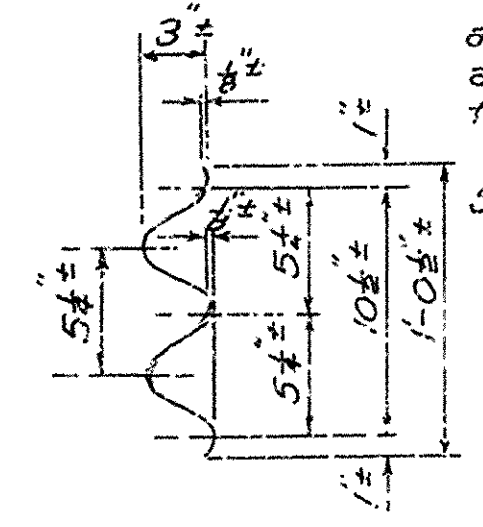
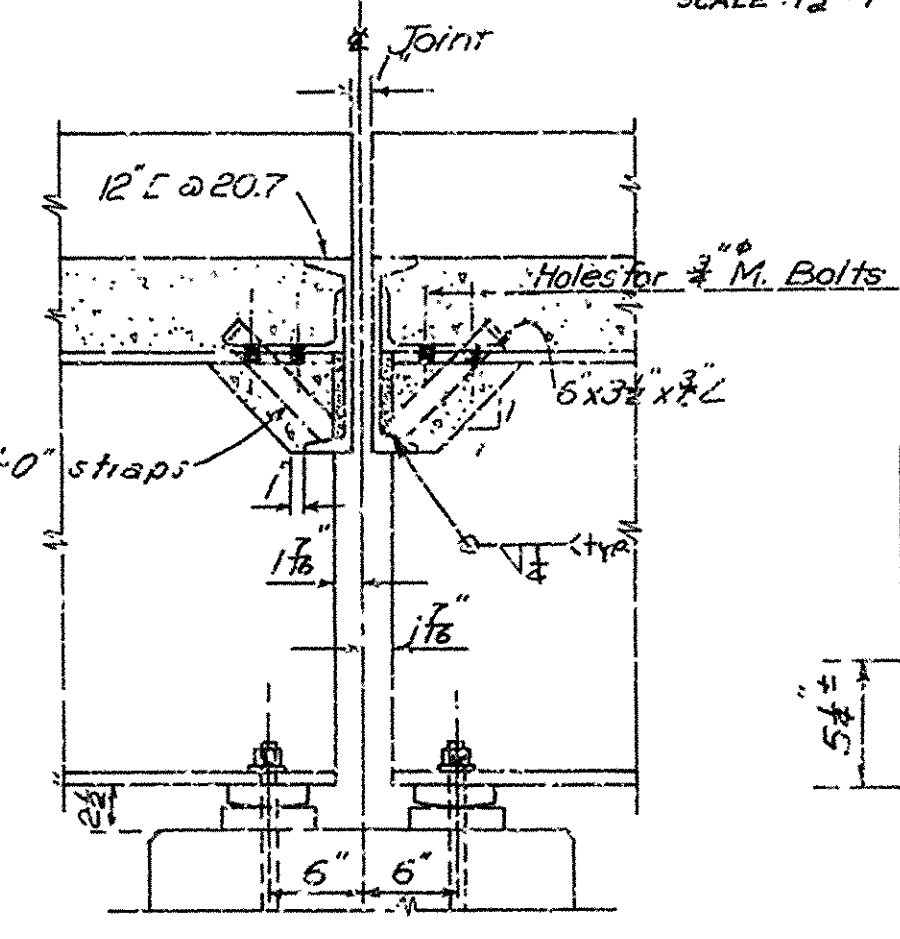
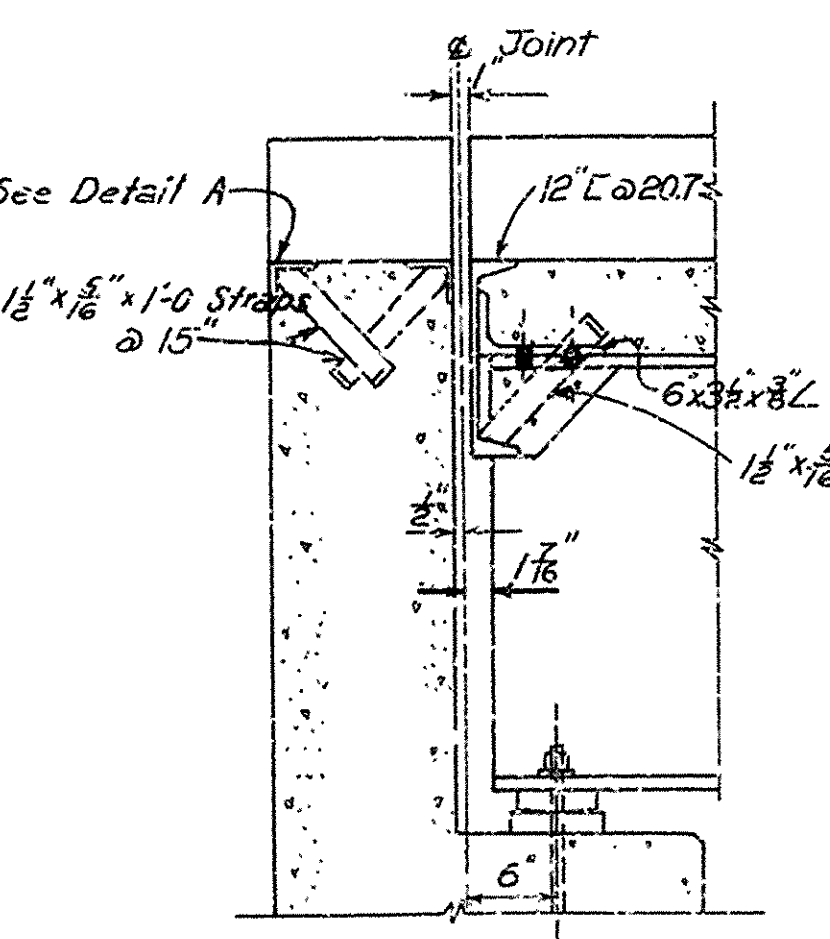
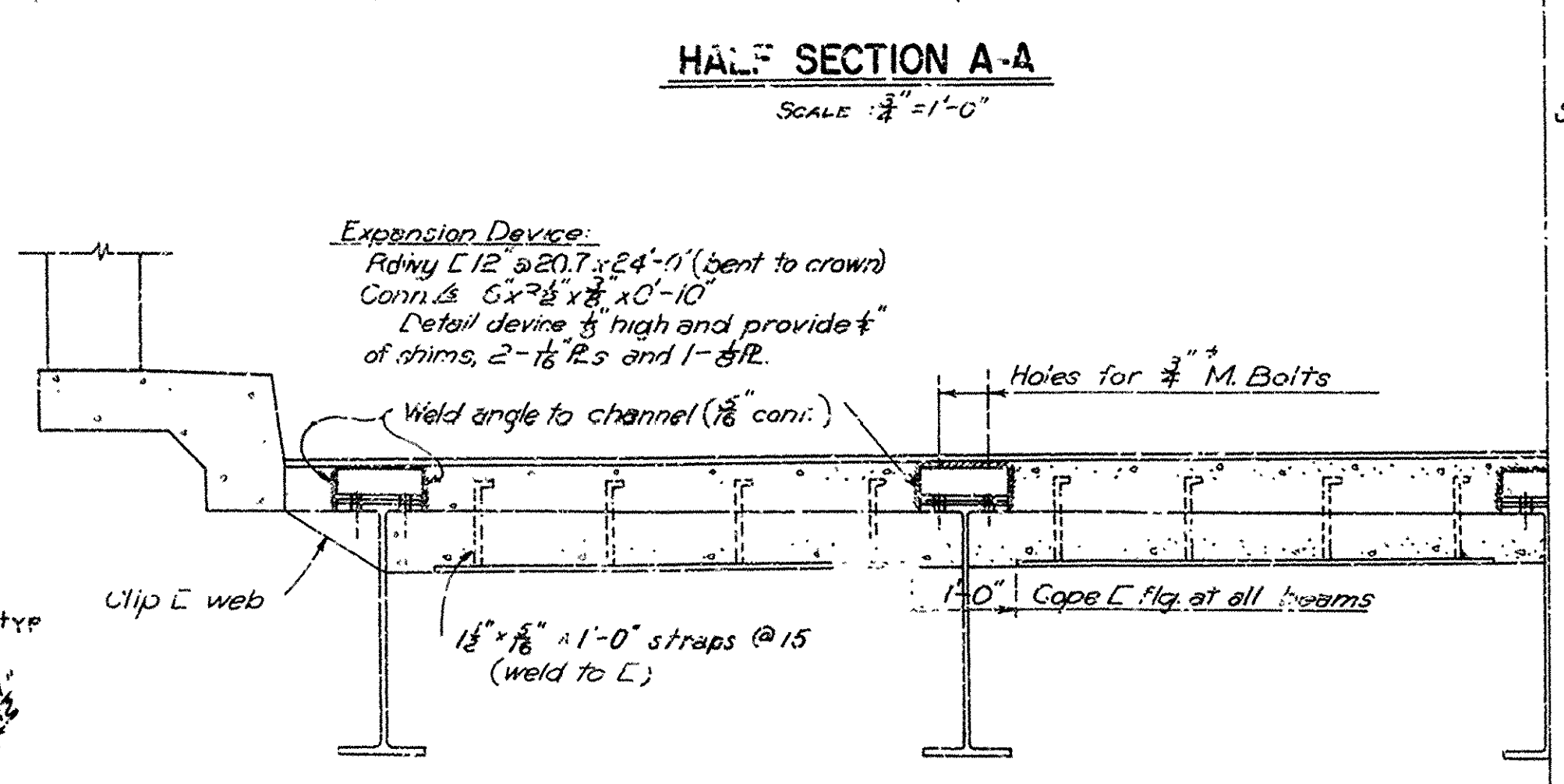
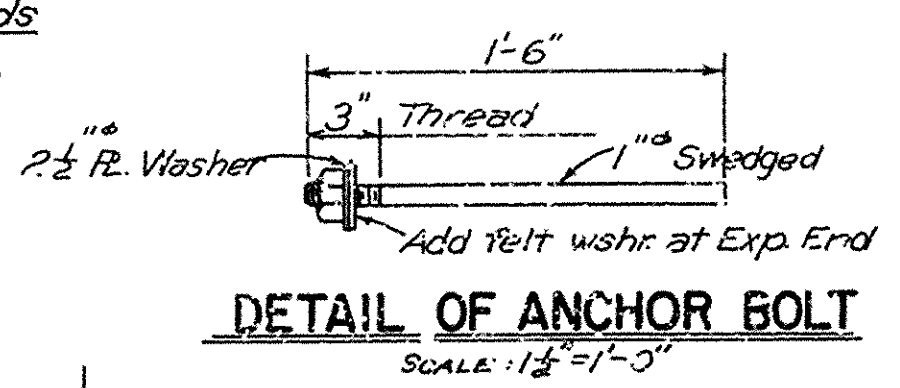
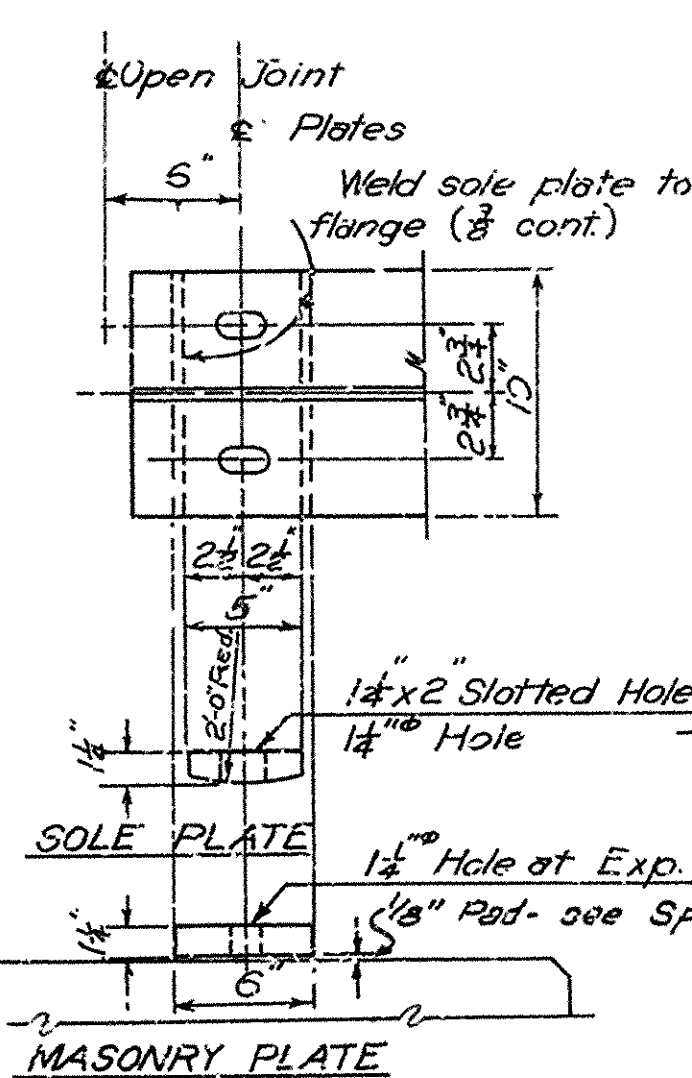
Rivets: - $\frac{3}{4}$ ". Open holes $\frac{1}{4}$ " except where noted otherwise.

Structural shapes of equal or greater strength may be substituted for shapes shown but payment will be made on basis of shapes shown or those actually used, whichever is the lesser.

All welded connections to be $\frac{3}{8}$ " fillet shop welds except as noted. All welding shall conform to the American Welding Society Standard Specifications for Welded Highway and Railway Bridges, 5th Ed. 1956.

Shop Paint: All structural steel, except surfaces in contact with concrete shall be given one coat of red lead and raw linseed oil before shipment.

Field Paint: All concrete, bridge loads painted with heavy black



Unit Stresses:		Loading H15 (AASHTO 1957)	
Structural Steel	18,000 $\frac{\text{lb}}{\text{in}^2}$	Dead Load	850 $\frac{\text{lb}}{\text{in}^2}$
Reinforcing Steel	29,000 $\frac{\text{lb}}{\text{in}^2}$	Truck L.L.	0.80 wheels
Class 5 Concrete ($n=10$)	1,200 $\frac{\text{lb}}{\text{in}^2}$	Dead Load	640 $\frac{\text{lb}}{\text{in}^2}$
		Truck L.L.	1.1 wheels

DETAILS OF
STANDARD 40'-45' I-BEAM SPANS
24'-0" CLEAR RDWY. 1'-0" CURBS

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: W. H. Date: 9-16-52
Traced By: W. H. Date: 7-28-54
Checked By: W. H. Date: 7-28-54

Scale: as noted

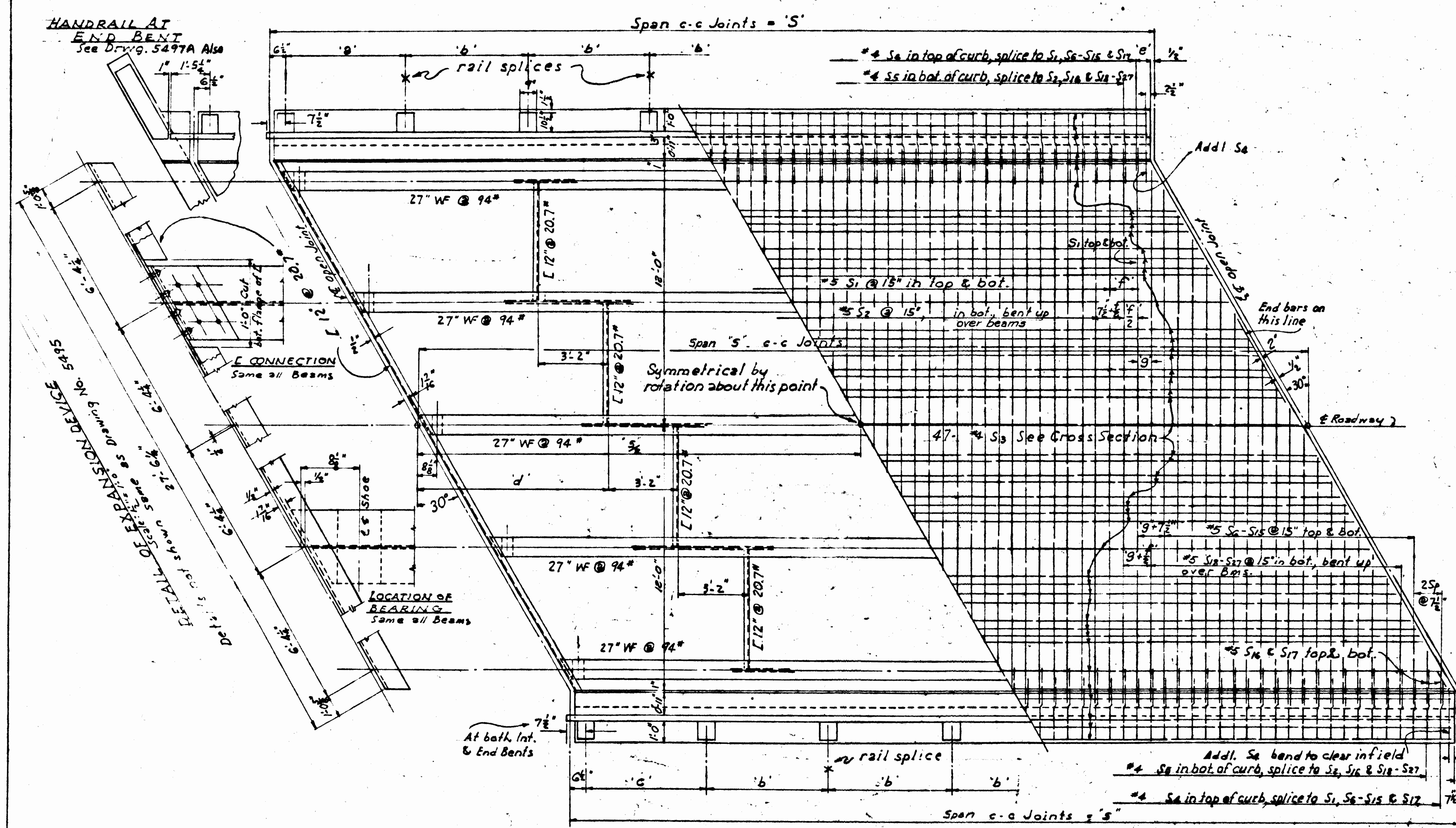
DRAWING NO. 5495

REVISIONS

Changed Camber Diagram. WWTM 9-29-54
Bar nos, Rwy Width, Straps, and
Steel Plate Guard. FDN 7-24-58
Notes for field paint, bearings and
Bridge Railing. FDN 1-27-59
Added bearing pad. R.L.C 5-4-59

"BRIDGE ENGINEER"

Reverse before 6 5009



COMPLETE LIST OF REINFORCING STEEL FOR ONE 40' SPAN

Mark	Size	Length	No. Req'd. when 'S'							Diagram	
			40'	41'	42'	43'	44'	45'			
S ₁	5	25-0	42	44	46	48	50	52		Straight Rod	
S ₂	5	25-9	20	21	22	23	24	25		See Drwg. 5495	
S ₃	4	5'-7"	47							Straight rod	
S ₄	4	4-5	68	70	72	74	76	78		See Drwg. 5495	
S ₅	4	3-0	64	66	68	70	72	74			
S ₆	5	22-11	40							Straight Rods	
S ₁₅		6-3-5	4 each length								
S ₁₆	5	2-4	4								
S ₁₇	5	1-3	4								

S ₁₈	5	24-9	2	1-9 $\frac{1}{2}$						
S ₁₉	5	22-6	2	2-2 $\frac{1}{2}$						
S ₂₀	5	20-3	2	2-11						
S ₂₁	5	18-1	2	0-0						
S ₂₂	5	15-10	2	1-3						
S ₂₃	5	13-6	2	1-10 $\frac{3}{4}$						
S ₂₄	5	11-5	2	2-5						
S ₂₅	5	9-1	2	0-3						
S ₂₆	5	6-10	2	1-0						
S ₂₇	5	4-7	2	1-5 $\frac{1}{2}$						
PO ₁	5	5-4	32		See Drwg. No. 5495					
PO ₂	3	2-8	48		Not a pay item					

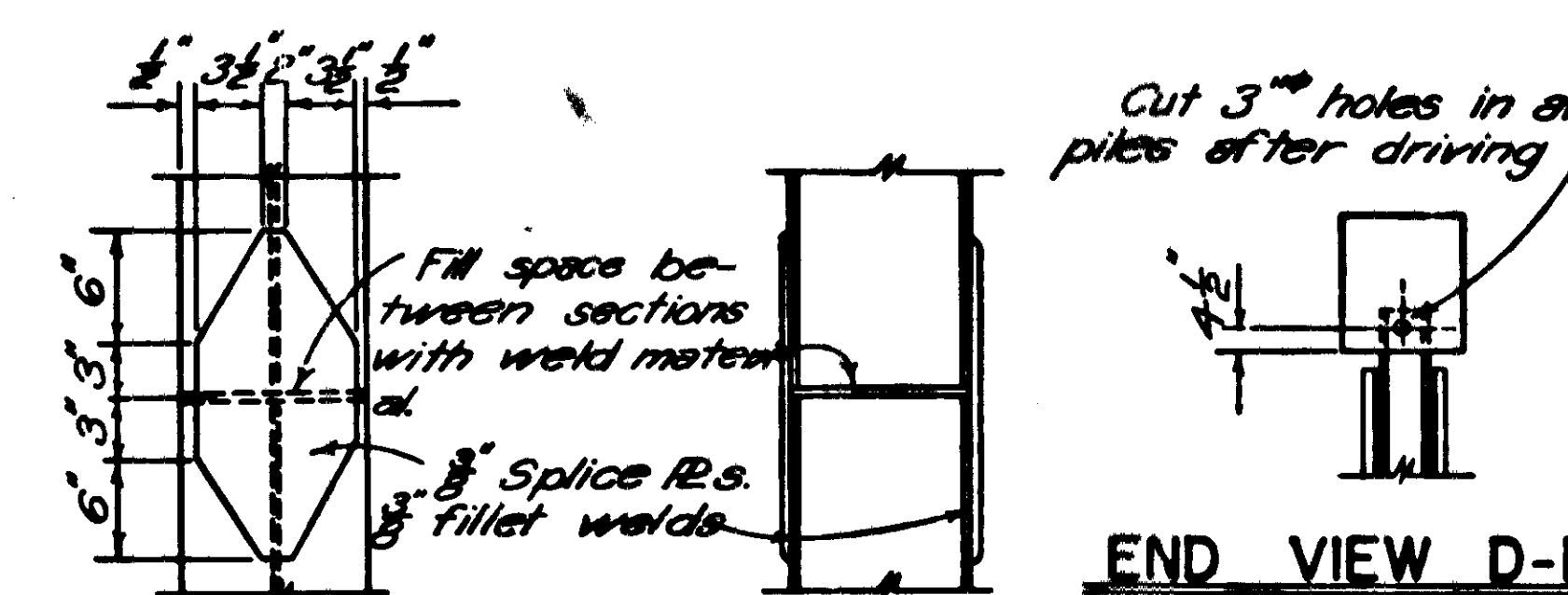
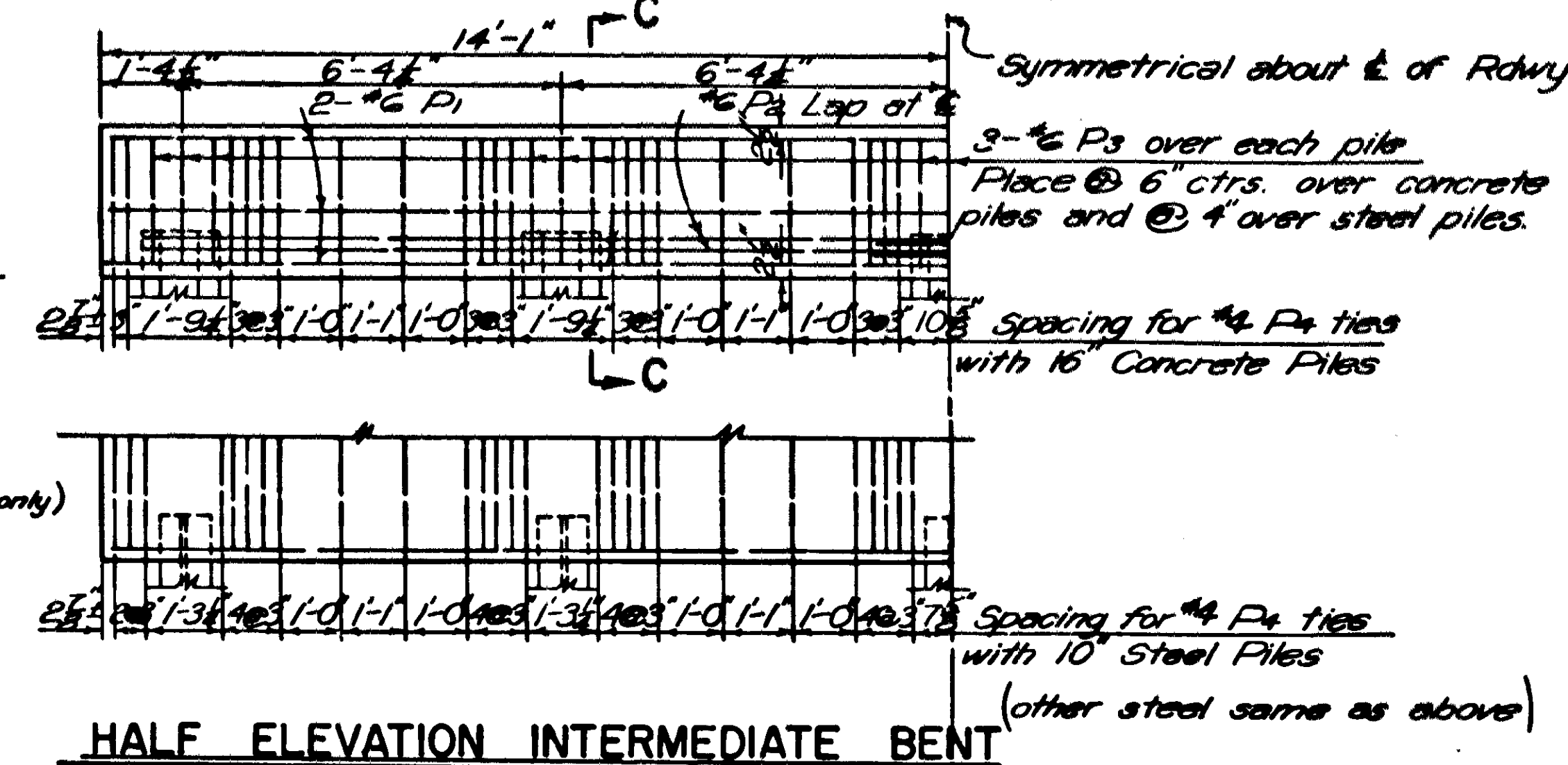
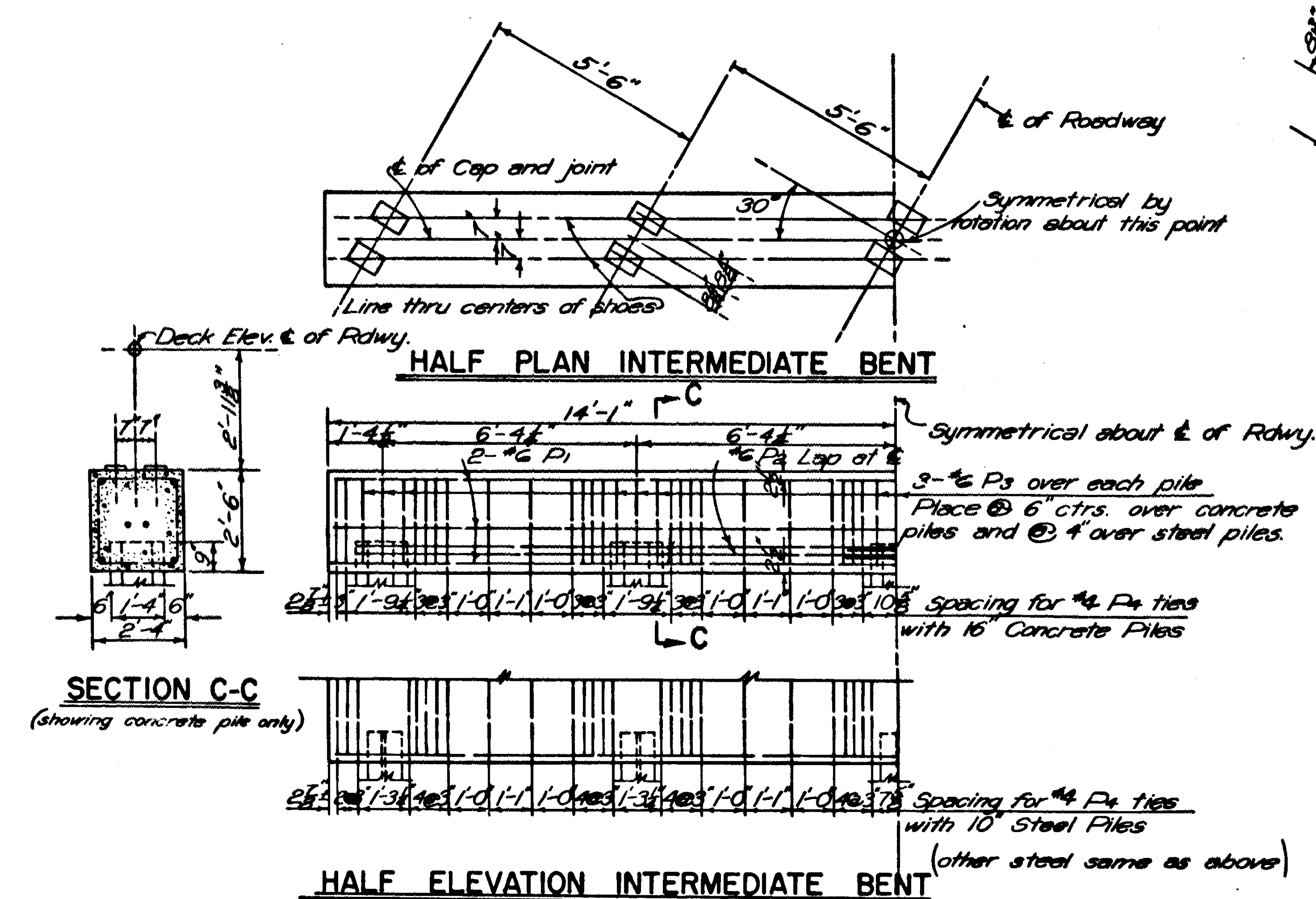
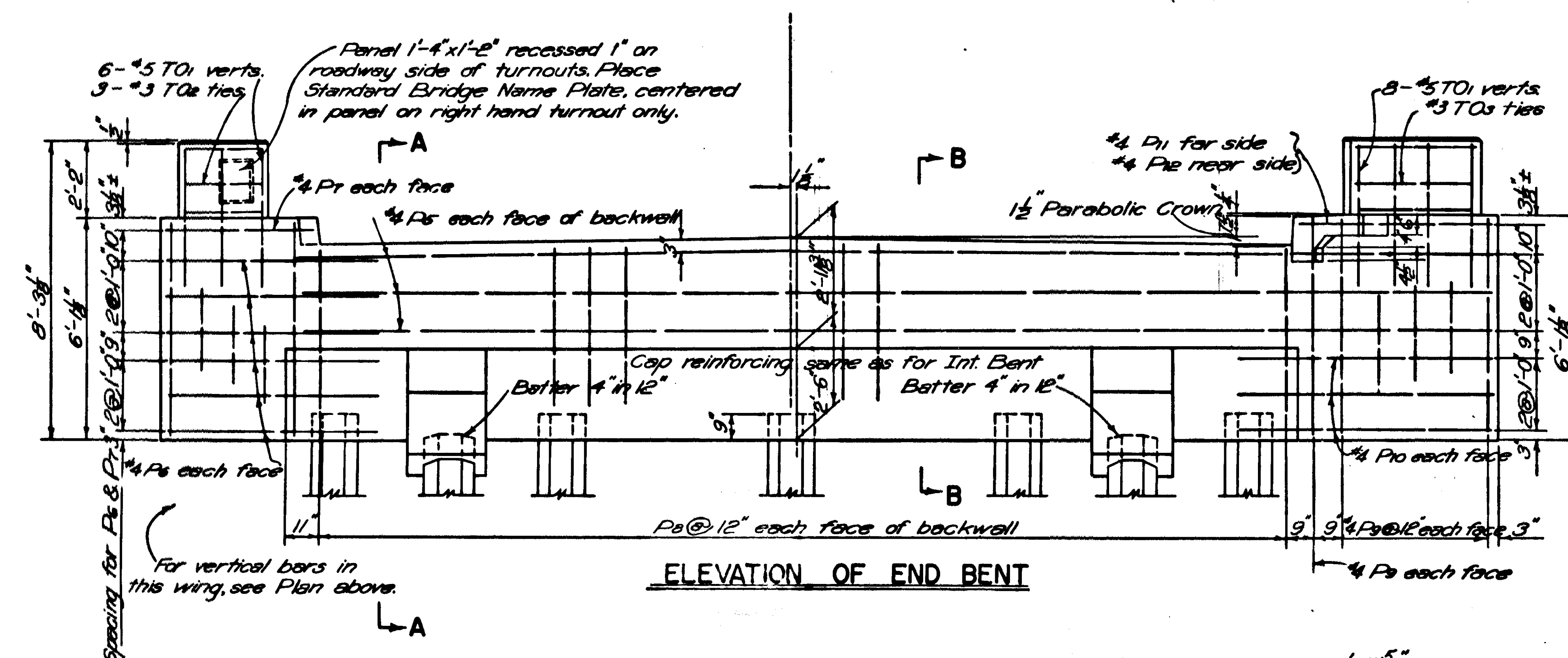
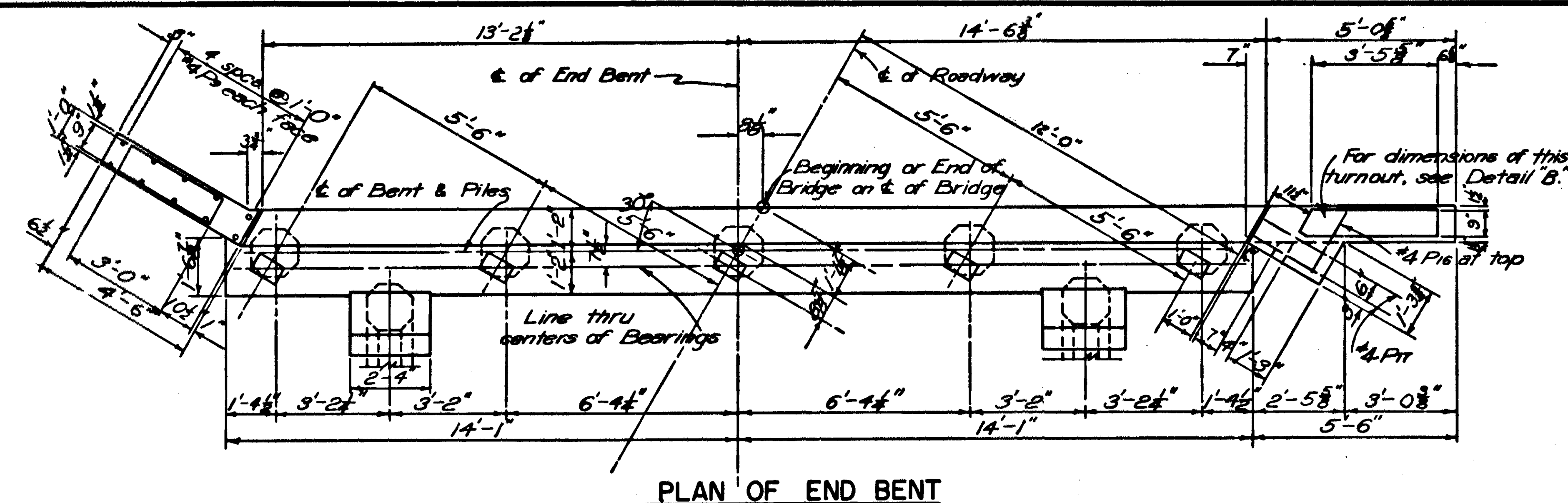
NOTE:
For details not shown and general notes See Drwg. No. 5495
For details of pile bents See Drwg. No. 5497A

TABLE OF VARIABLE DIMENSIONS								
Span c-c Jts = 'S'	Post Spacing			Strut Spacing	Reinforcing Spacing			Camber 'X'
	'b'	'b'	'c'		'd'	'e'	'f'	
40'	5'-8"	5'-6½"	5'-6½"	8'-7"	7"	1'-3"	7½"	7/16"
41'	5'-11"	5'-8"	5'-8"	8'-10"	6"	1'-2½"	6½"	½"
42'	5'-11"	5'-10"	5'-10"	9'-1"	6"	1'-2"	6½"	9/16"
43'	5'-11"	6'-0"	6'-0"	9'-4"	5½"	1'-0"	6"	5/8"
44'	6'-2"	6'-1½"	6'-1½"	9'-7"	5½"	0'-10½"	6"	11/16"
45'	6'-7"	6'-3"	6'-1"	9'-10"	4½"	0'-10"	5"	¾"

Revised: 1-28-59 FDM. Bar size numbers. Ring width.

APPROVED BY
W. L. ...
Bridge Design Engineer

DETAILS OF STANDARD
40'-45' I-BEAM SPANS, 30' SKEW RT. FWD.
24'-0" CLEAR ROADWAY, 1'-0" CURBS
STEEL PLATE GUARD RAIL, CONC. POSTS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: EAW Date: 11-3-52
Chd. By: JPK Date: 11-7-52
Scale: 3/8" = 1'-0"
and as noted
DRAWING NO. 5497

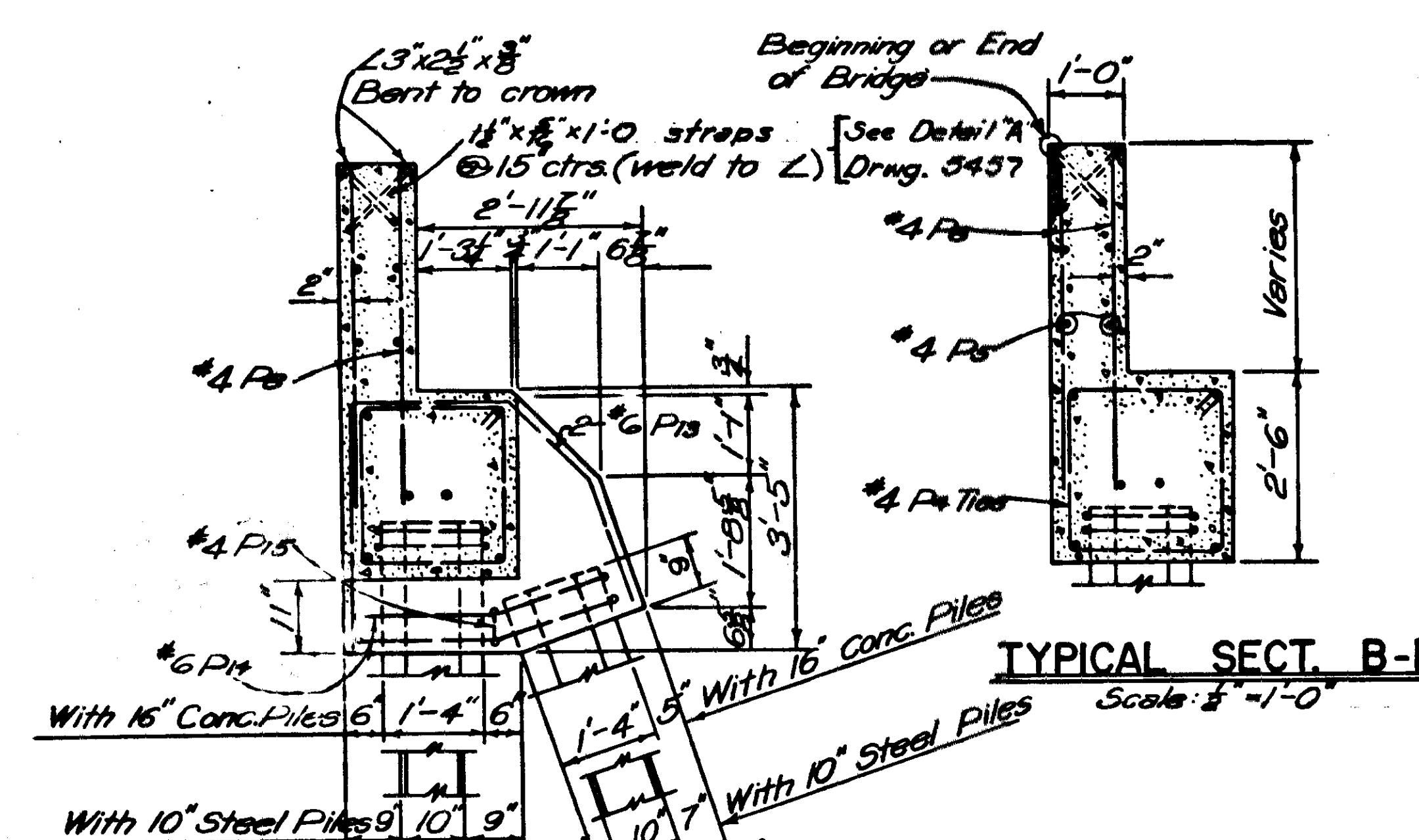


PILE SPLICE DETAILS

Scale: 1"=1'-0"

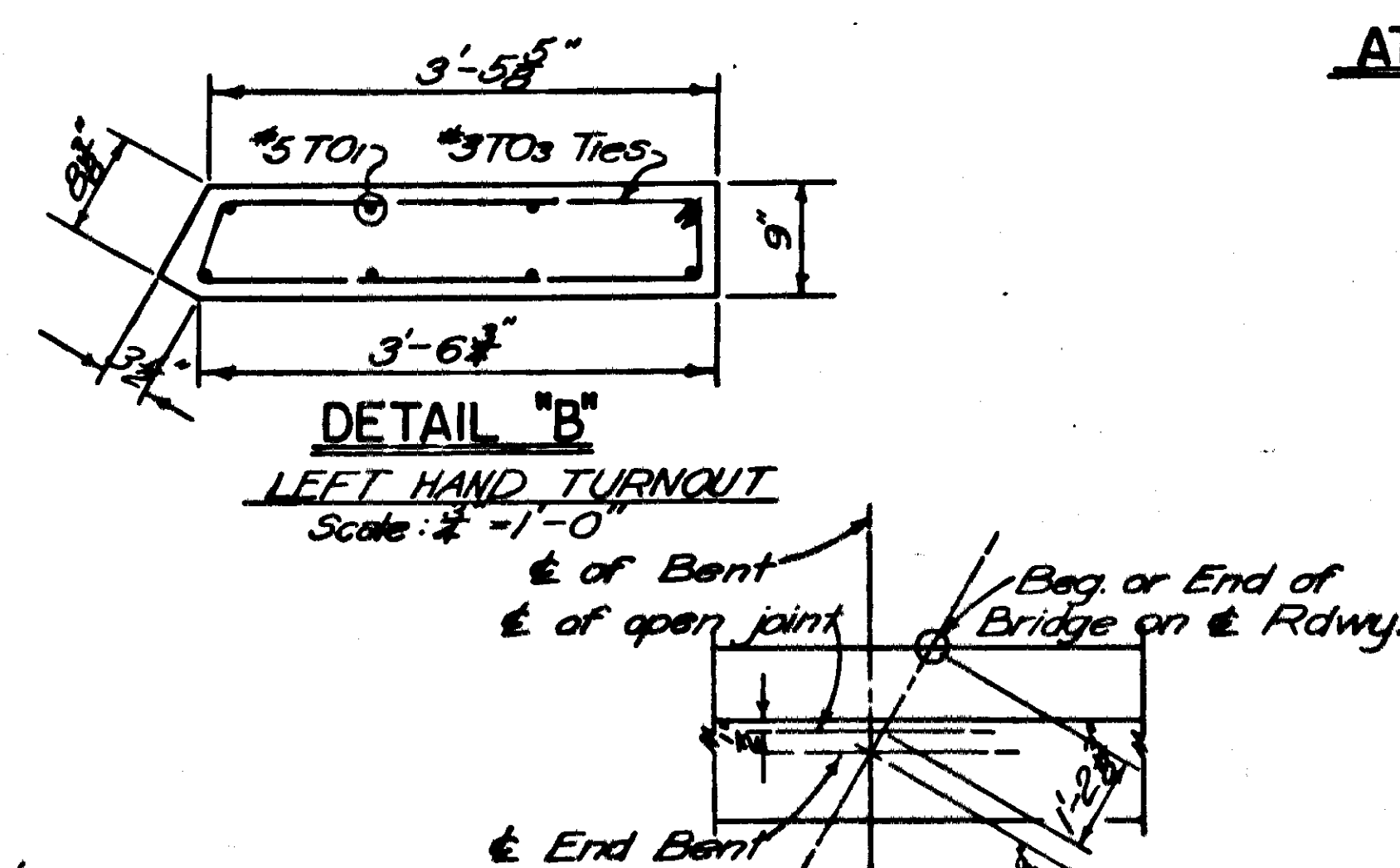
Generally all piles shall be driven full length and shall not be spliced except by permission of the Engineer.

Generally all piles shall be driven full length and shall not be spliced except by permission of the Engineer.

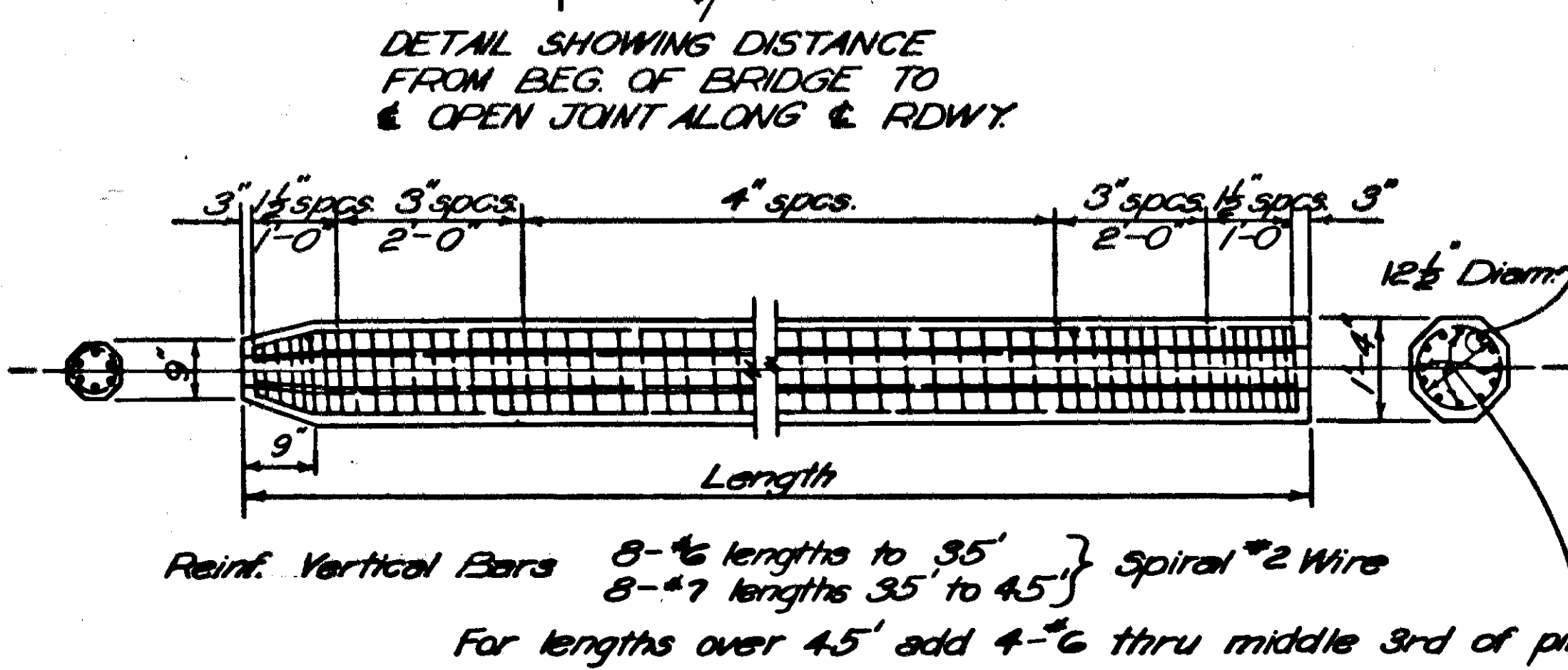
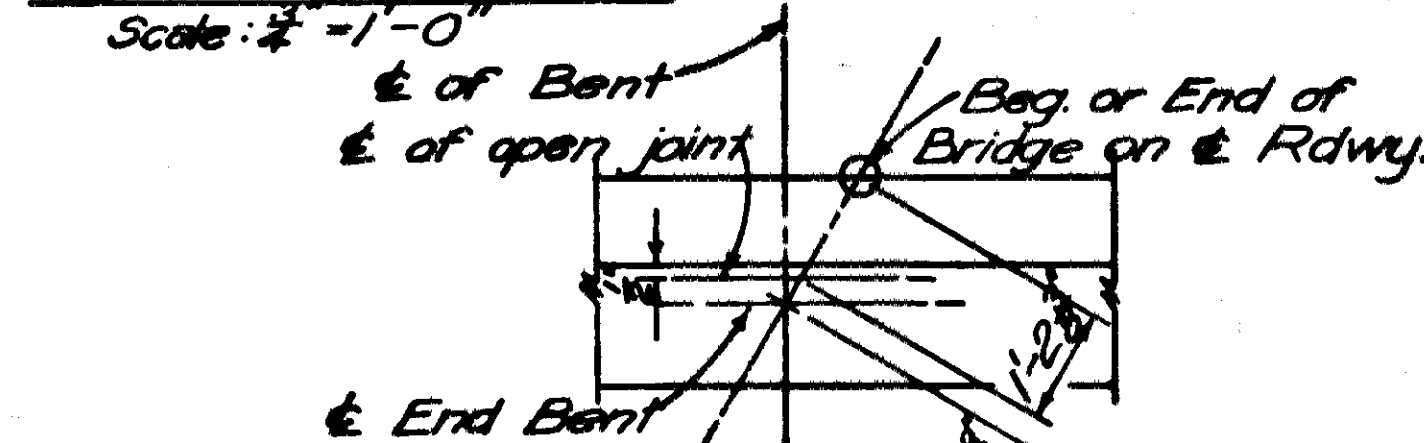


SECTION A-A
AT BATTER PILES

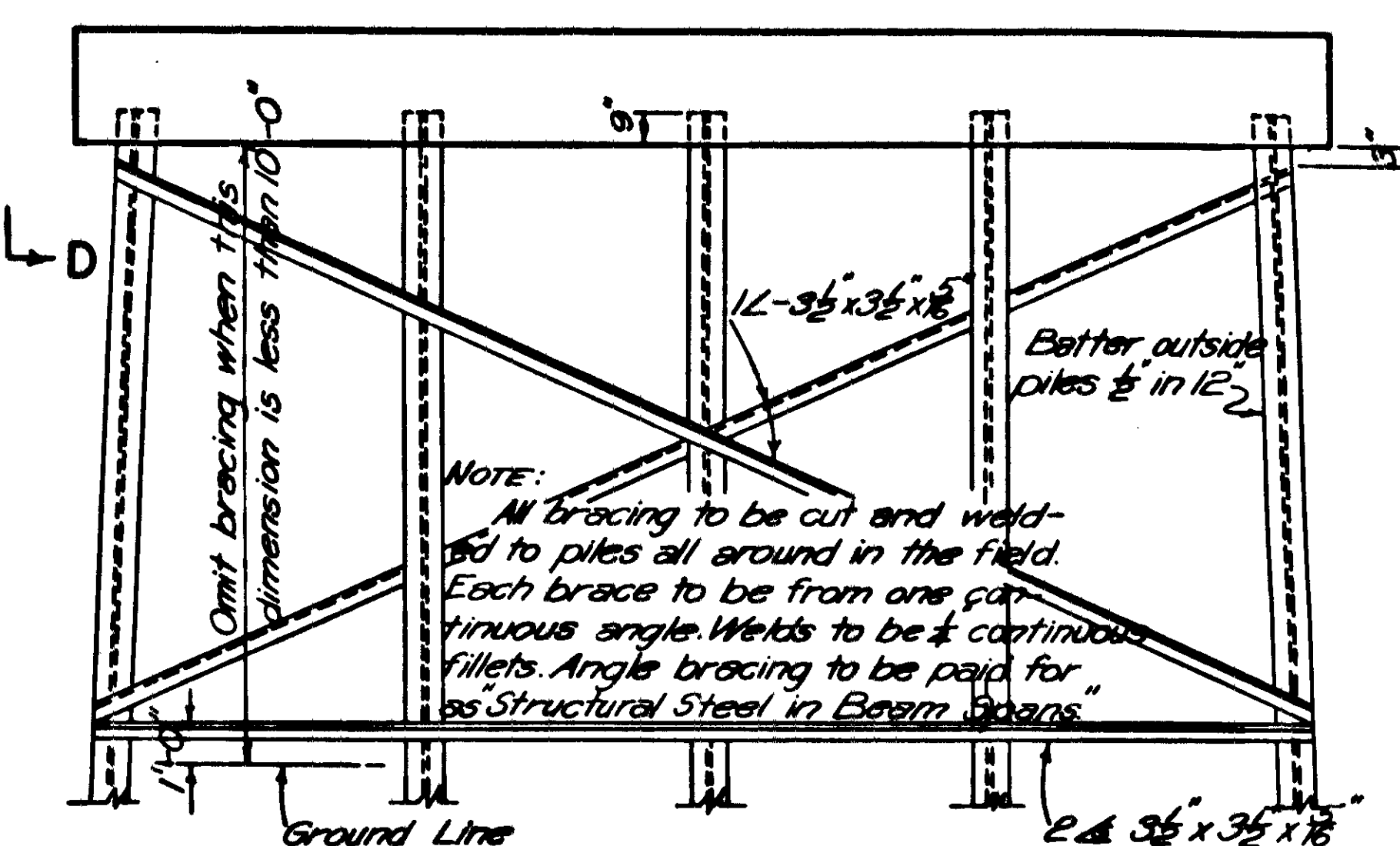
Scale: $1'' = 1'-0''$



LEFT HAND TURNOUT



FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				
STATE JOB NO.					



TYPICAL BRACING INTERMEDIATE BENT

LIST OF REINFORCING STEEL

MX	Size	No. In	Bent	Length	Pin
	No.	End	Int.		Dia
P1	G	6	6	27'-10"	5/8"
P2	"	4	4	30'-8"	2 1/2"
P3	"	15	15	6'-3"	2 1/2"
P4	4	4 1/2"	4 1/2"	0'-11"	1 1/2"
P5	"	6		33'-0"	5/8"
P6	"	12		6'-0"	1 1/2"
P7	"	2		4'-2"	
P8	"	56		4'-3"	
P9	"	22		5'-9"	
P10	"	6		7'-0"	
P11	"	1		4'-9"	
P12	"	1		5'-0"	
P13	G	4		7'-11"	2 1/2"
P14	"	4		11'-2"	2 1/2"
P15	4	2		5'-3"	1 1/2"
P16	"	1		2'-0"	5/8"
P17	"	2		5'-0"	1 1/2"
TD1	5	14		4'-0"	5/8"
TD2	3	3		6'-11"	1 1/2"
TD3	3	3		8'-2"	1 1/2"

Straight

Bending Diagram

Dimensions are to c/sr. of bars.

* 54 Ties if steel piles are used

NOTES

Steel Piles are to be
Piles to be driven to a

28 Tons. See Layout for
For Details of Sup.

Notes, see Drawings 5.

[illegible]

DETAILS OF
 STANDARD PILE BENTS
 40' TO 45' I-BEAM SPANS
 24'-0" CLEAR RDWY. 1'-0" CURBS
 30° SKEW RT. FORWARD

Five 100 100 100

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.
Drawn By: W.W.M. Date: 10-15-52

Traced By: L.W.H. Date: 7-26-55 W.E.W. 7-28-55
Checked By: J.H.K. Date: 11-5-52

BRINGS ☐ DRAWING NO.

REVISE before
Using
Ward Goodman
BRIDGE DESIGN ENGINEER