

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	F.A.P. No. F-461(1)	1945	1	26
STATE JOB NO.		7288	1945	1	26

STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

INDEX OF SHEETS

Sheet No.	Dwg. No.	Title Sheet
1	6231A	Title Sheet
2	6232A	Schedule of Quantities-Br. 2211 & 2212
3	6233	Location Map- Br. No. 2212
4	6234	Layout of Approach Spans-Bridge over Saline R.-Br. No. 2212
5	6235	Layout of Main Spans " " " " " "
6	6236	Layout of Approach Spans " " " " " "
7	6237	Details of End and Intermediate Bents-Br. No. 2212
8	5251	Details of 45'0" Cantilever I-Beam Spans
9	5251A	Details of 45'0" Cantilever I-Beam Spans
10	6238	Details of Piers Nos. 1, 2, 5, 6 & 7
11	6239	Details of Piers Nos. 3 & 4
12	6240c	Design Stresses, Selection of Members for Deck Trusses
13	6240d	Details of Deck Truss Spans-Sheet No. 1
14	6240e	" " " " " " " 2
15	6240f	" " " " " " " 3
16	6240g	" " " " " " " 4
17	6240h	" " " " " " " 5
18	6240i	" " " " " " " 6
19	6240j	Details of Deck Truss Spans-Sheet No. 7
20	6240k	Typical Deck Sections & Handrail Details
21	5461	Details of 108'0" Low Truss Span
22	5461A	" " " " " " " "
23	5240	Layout of Bridge over Flat Branch-Saline R. Relief-Br. No. 2211
24	5216	Bent Details for 34'0" & 36'0" I-Beam Spans
25	5217	Details of Standard 34'0" & 36'0" I-Beam Spans
26	2387	Details of Bridge Name Plates, Etc.

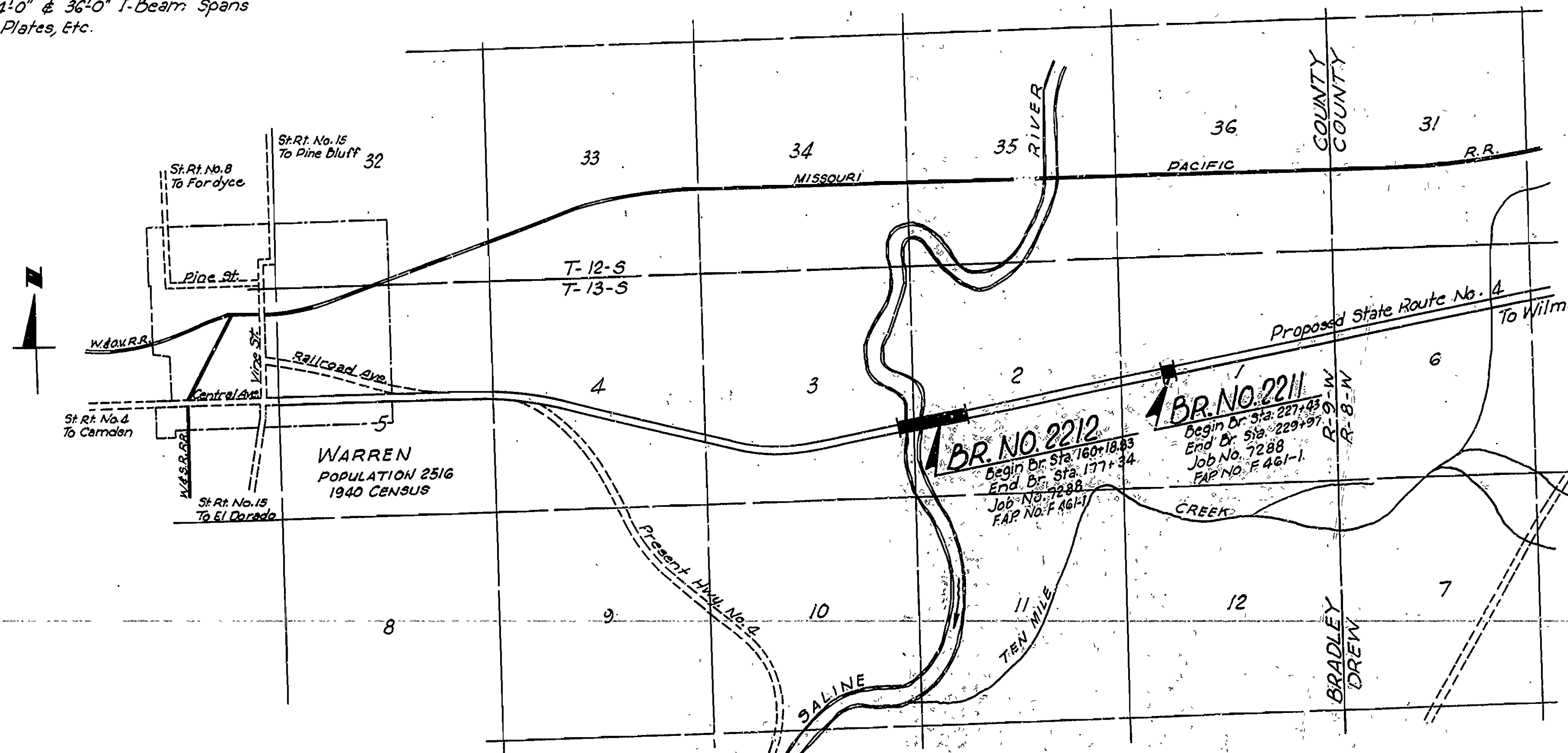
PLAN OF PROPOSED BRIDGES
OVER SALINE RIVER & RELIEF
WARREN - WILMAR ROAD
BRADLEY COUNTY
ROUTE 4 SEC. 13
JOB NO 7288

FEDERAL AID PROJECT NO. F-461(1)

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
ADOPTED MARCH 1, 1940 WITH THE SPECIAL PROVISIONS LISTED BELOW

PAMPHLETS		PART
DIVISION		
I		
II	1, 8a, 8b, 9	
III		
IV		

No.	SPECIAL PROVISIONS TITLE	No. SHEETS
	Required Contract Provisions	8
2-1	Revision of Article 2.11 (Appr. 2-8-41)	2
2-2	Equipment List Required	1
2-4	State License for Contractors	1
4-1	Revision of Article 4.9	1
9-5	Partial Payments	1
803-1	Revision of Article 803.21	1
805-2	Concrete and Structural Steel Railing	2
807-4	Revision of Article 807.29	1
807-5	Revision of Article 807.29(e) (12-12-45)	1
850-1	Engineers Field Office	1
853-1	Machine Mixing	1
	Cleaning and Placing Reinforcing Steel on Hand	1
	Conditioning Substructure Units in Place	1
	Basis of Payment for Concrete Piling	1
	Coordination of Work (Jobs 7288 & 1186)	2
804-2	Precast Piling	1
8-3	Special Provision Pertaining to the Required Contract Provisions for Federal-Aid Projects.	2



LAYOUT
Scale: 1" = 2000'

LENGTH OF PROJECT-	1969' 2"	0.372 Mi.
LENGTH OF BRIDGES-	1969' 2"	0.372 Mi.
LENGTH OF EMBANKMENT-	0' 0"	0.000 Mi.
LENGTH OF JOB-	1969' 2"	0.372 Mi.

Revisions: Special Provisions: W.C.H. B-29-47

PRINCIPAL HIGHWAY ENGINEER (BRIDGES)

BRIDGES No. 2212 & 2211

DRAWING No. 6231-A

APPROVED

CHIEF ENGINEER-STATE HIGHWAY COMMISSION

APPROVED

CHAIRMAN-STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED

COMMISSIONER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
0	ARK.	+61 F. (1)	1948	2	26
STATE JOB NO. 7288			1948	2	26

SCHEDULE OF BRIDGE QUANTITIES

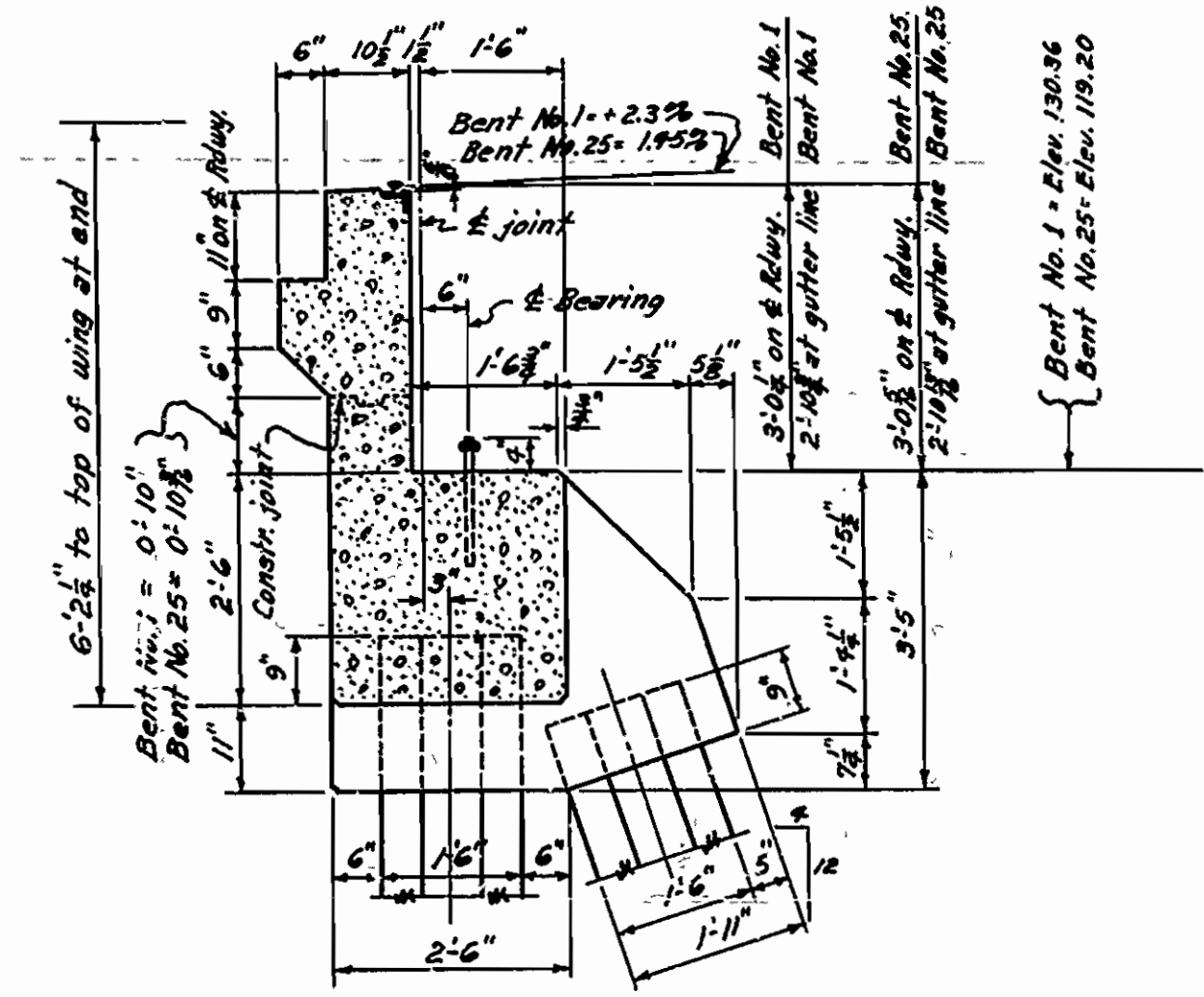
ITEM NO.	ITEM	UNIT OF BRIDGE													
		103	S.P.& 802	S.P.& 802	S.P.& 803	S.P.& 804	S.P.& 804	805	S.P.& 805	S.P.& 807	S.F.& 807	929	S.F.	S.F.	
		DRY EXCAVATION FOR STRUCTURES	CLASS "A" CONCRETE FOR BRIDGES	CLASS "S" CONCRETE FOR BRIDGES	REINFORCING STEEL	CONCRETE PILING 18" OCTAGONAL	CONCRETE PILING 16" OCTAGONAL	CONCRETE RAILING	CONCRETE & STRUCTURAL STEEL RAILING	STRUCTURAL STEEL IN BEAM SPANS	STRUCTURAL STEEL IN TRUSS SPANS	BRIDGE NAME PLATES (TYPE "A")	CLEANING & PLACING REINFORCING STEEL ON HAND	CONDITIONING SUBSTRUCTURE UNITS IN PLACE	
		Cu.Yd.	Cu.Yd.	Cu.Yd.	Lb.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	Lb.	Lb.	EACH	Lb.	COMPLETE ITEM	
END BENT No.1				13.22		336		7		580		1	6260		
BENT No.2	10			10.28	2710	168				40			410		
BENT No.3				10.28	1130	170				40			3250	0.5%	
PIER No.1	11	26.5									115		3220	12.5%	
PIER No.2		26.5									115		3220	12.5%	
PIER No.3		61.5			140						120		6800	10.5%	
PIER No.4		61.5			140						125		6800	10.5%	
PIER No.5	11	26.5									115		3220	12.5%	
PIER No.6	11	26.5									115		3220	12.5%	
PIER No.7	11	26.5									115		3220	12.5%	
BENT No.9				10.28	1130	204				40			3790		
BENT No.5				10.28	1790	204				40			2590		
BENT No.6				10.28	1130	210				40			2010		
BENT No.7				10.28	3390	210				40			2390		
BENT No.8				10.28	5300	204				40			2880		
BENT No.9	10			10.28	7130	192				40			2300		
BENT No.10	8			10.28	2900	180				40			470		
BENT No.11	10			10.28	7130	168				40			2300		
BENT No.12	14			10.28	2710	168				40			410		
BENT No.13				10.28	7130	168				40			2300		
BENT No.14				10.28	2900	180				40			470		
BENT No.15				10.28	7130	185				40			2300		
BENT No.16	14			10.28	2710	168				40			410		
BENT No.17				10.28	7130	168				40			2300		
BENT No.18				10.28	2710	168				40			410		
BENT No.19	24			10.28	1130	156				40			2890		
BENT No.20	32			10.28	1130	144				40			2500		
BENT No.21	26			10.28	1130	144				40			2470		
BENT No.22	45			10.28	1130	144				40			2670		
BENT No.23	3			10.28	570	165				40			330		
BENT No.24	13			10.28	1130	156				40			2890		
END BENT No.25				13.22		288		7		580		1	1810		
2 END CANTILEVER I-BEAM SPANS @ 46'0"				76.59	13640			184	56400						
21 INT. CANTILEVER I-BEAM SPANS @ 45'0"				784.06	140490			1890	600180						
2 SUSPENDED I-BEAM SPANS @ 29'0"				46.77	8240			116	41400						
DECK CANTILEVER TRUSS SPAN No.1				73.66	20590			166.5		90220					
DECK CANTILEVER TRUSS SPAN No.2				103.45	28740			234		121880					
THRU TRUSS SPAN No.3				76.71	16140					158930					
DECK CANTILEVER TRUSS SPAN No.4				103.38	28740			234		122300					
DECK CANTILEVER TRUSS SPAN No.5				95.93	26810			217		119830					
DECK CANTILEVER TRUSS SPAN No.6				73.69	20590			166.5		90220					
TOTAL - BRIDGE No. 2211	253	255.5	1881.12	369.770	4606		14	3208	700060	704200	2	139210	100%		
END BENT No.1				14.33				182	10	1025	590	1	2550		
BENT No.2				6.06	420			139		100			1510		
BENT No.3				9.01				168		100			850		
BENT No.4				6.06				140		100			1700		
BENT No.5				6.06				140		100			1940		
BENT No.6				9.01				168		100			1850		
BENT No.7				3.06				139		100			850		
END BENT No.8				14.33	420			182	10	1025	590	1	2550		
2 END I-BEAM SPANS @ 36'0"				56.36	10740				144	43400					
5 INTERIOR I-BEAM SPANS @ 36'0"				140.90	26850				360	108500					
TOTAL - BRIDGE No. 2211				268.18	38430			1258	524	154550	153,600	2	27,400		
GRAND TOTALS - JOB No. 7288	253	255.5	2149.30	408.200	4606	1258	524	3208	854610	704200	4	161,610	100%		

ITEM No.101 - CLEARING

STATION TO STATION	QUANTITY - ACRES	
160+05	163+35	0.10
164+80	177+50	0.26
227+30	230+10	0.64
TOTALS		1.00

ITEM No.101 - GRUBBING

STATION TO STATION	QUANTITY - ACRES	
160+05	161+75	0.12
167+80	177+50	0.86
227+30	230+10	0.32
TOTALS		1.30



SECTION THRU END BENTS No. 1 & 25 OF BRIDGE No. 2212 SHOWING SPECIAL DETAILS

Scale: 1" = 1'-0" NOTE: For details not shown see Drawg. No. 6237

REVISIONS: Quantity-Structural Steel, W.C.H. 10-31-46.

Original which was lost

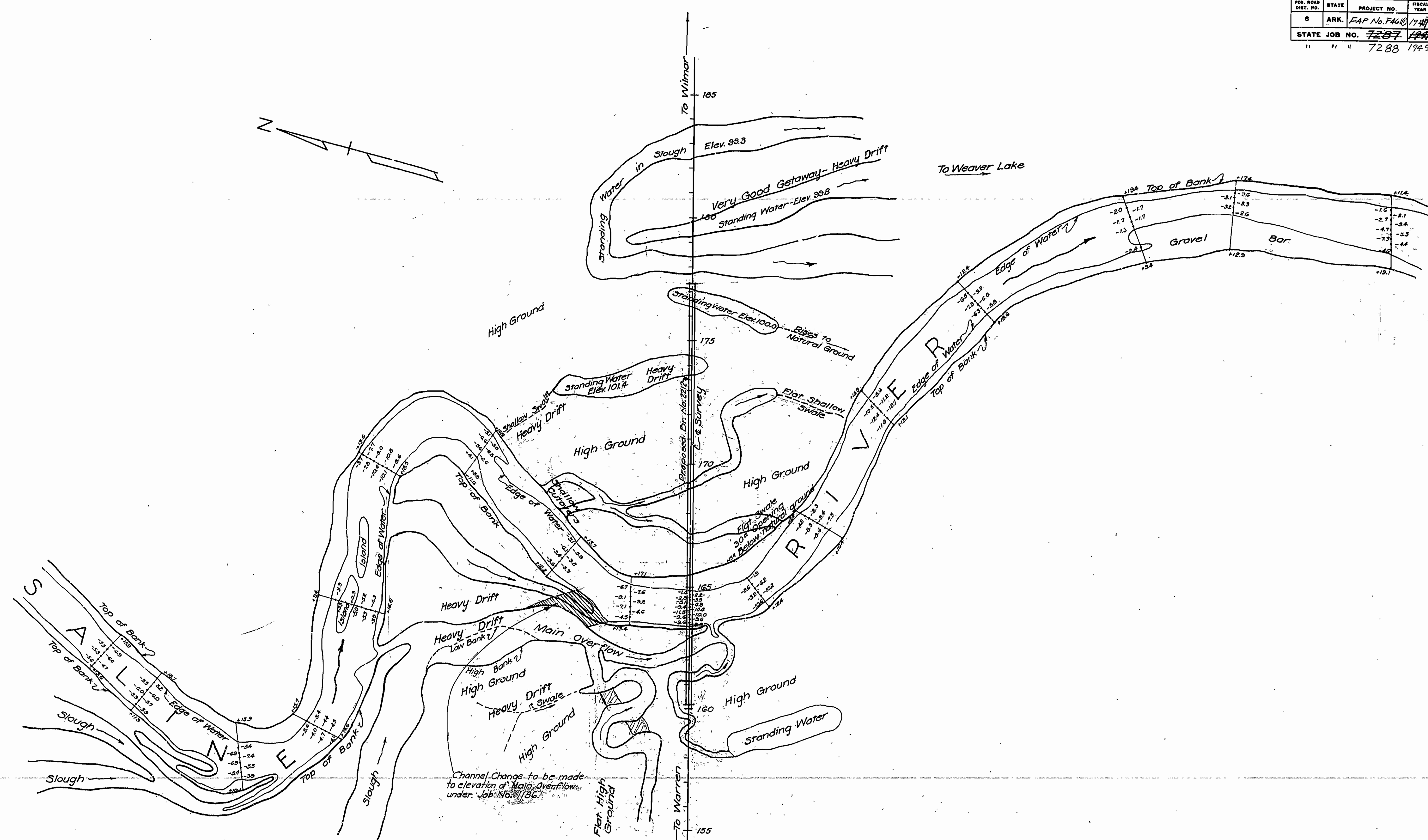
SCHEDULE OF QUANTITIES BRIDGES OVER SALINE RIVER & RELIEF WARREN - WILMAR ROAD BRADLEY COUNTY ROUTE 4 SEC. 13

ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARK.

Drawn By: W.C.H. Date: 12-15-45
Traced By: W.C.H. Date: 12-18-45
Checked By: _____ Date: _____
BRIDGE No. 2211 & 2212. DRAWING No. 6232-A.

Reinforcing steel in piling to be paid for under separate items.
Piling reinforcing steel.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAP No. F4010	1945	3	26
STATE JOB NO. 7287 144 3 74					
" " " 7288 1945 3 26					



LOCATION MAP
 BRIDGE OVER SALINE RIVER
 NEAR WARREN, ARK.
 BRADLEY COUNTY
 ROUTE 4 SEC. 13

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: *MWH* Date: *7-1-41*
 Traced By: *MWH* Date: *7-5-41*
 Checked By: _____ Date: _____
 BRIDGE NO. 2212 DRAWING NO. 6233

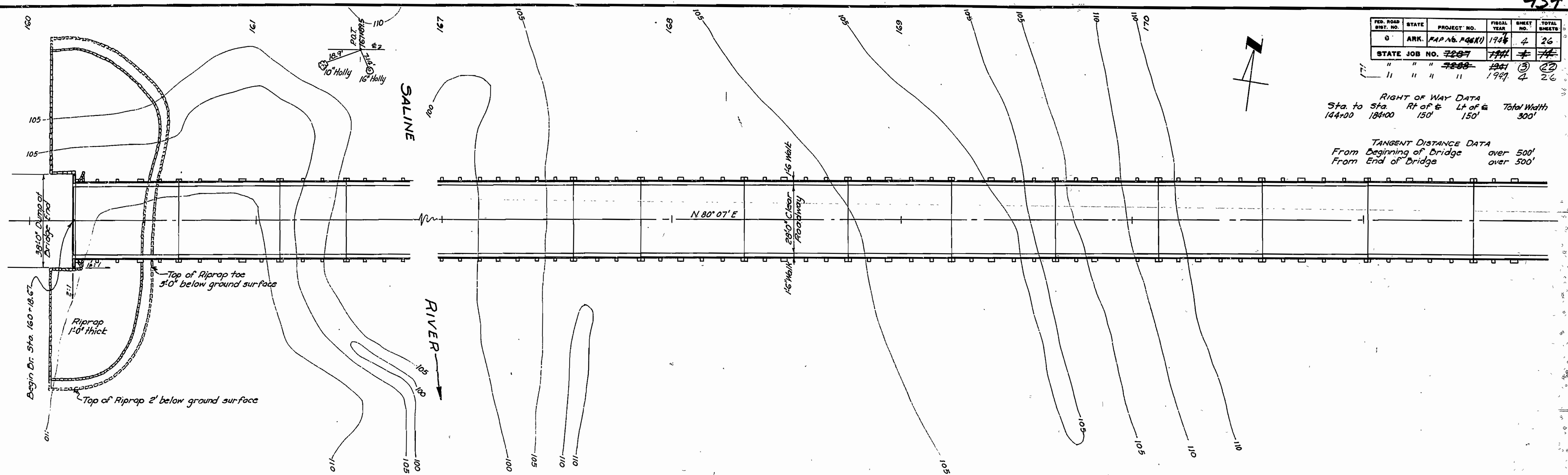
H.O. Lanier
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

Scale: 1 in. = 200 ft.

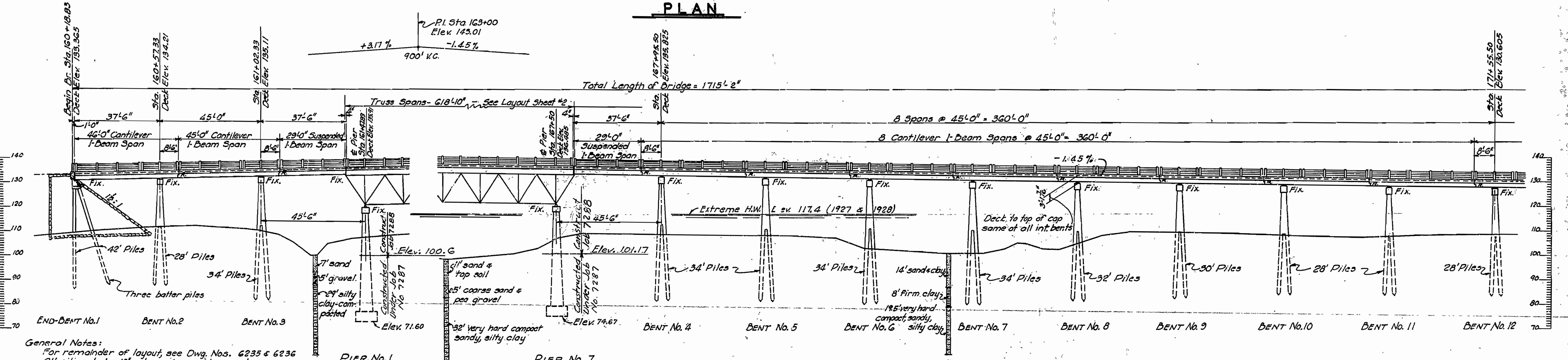
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
0	ARK.	FAP No. 7287	1944	4	26
STATE JOB NO. 7287		1944	1944	4	26

RIGHT OF WAY DATA
Sta. to Sta. 144+00 184+00
Rt of & Lt of & Total Width 150' 150' 300'

TANGENT DISTANCE DATA
From Beginning of Bridge over 500'
From End of Bridge over 500'



PLAN



ELEVATION

General Notes:
For remainder of layout, see Dwg. Nos. 6235 & 6236
All piling to be 18" octagonal precast concrete.
Lengths of piling shown include amount necessary to permit stripping back for 3'-0" lap on longitudinal bars, and are assumed for estimating quantities only. Actual lengths to be determined in the field.
Drive one pile ~~in~~ in bent No. 3 as test pile. Cast 40' long.
For Details of I-Beam Spans, see Divg. No. 5251 & 5251A.
For Details of Pile Bents, see Dwg. No. 6237.
For Special Details at End Bents, see Dwg. No. 6232.
Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted Mar. 1, 1940.
Excavation for Pile Caps to be made to full lines, where practicable.
Embankment and Riprap at Bridge Ends to be placed by the Road Contractor - Job No. 1186.

Note: Test Pile in Bent No. 3 driven under Job No. 7287. Upper portion to be stripped back to elevation of bottom of bent column to permit minimum lap of 3'-0" of longitudinal bars.

DRAINAGE AREA
24.50 square miles.

D.M. Elev. 110.78
Nail in root of 16" Holly
40' Rt. of Sta. 162+00

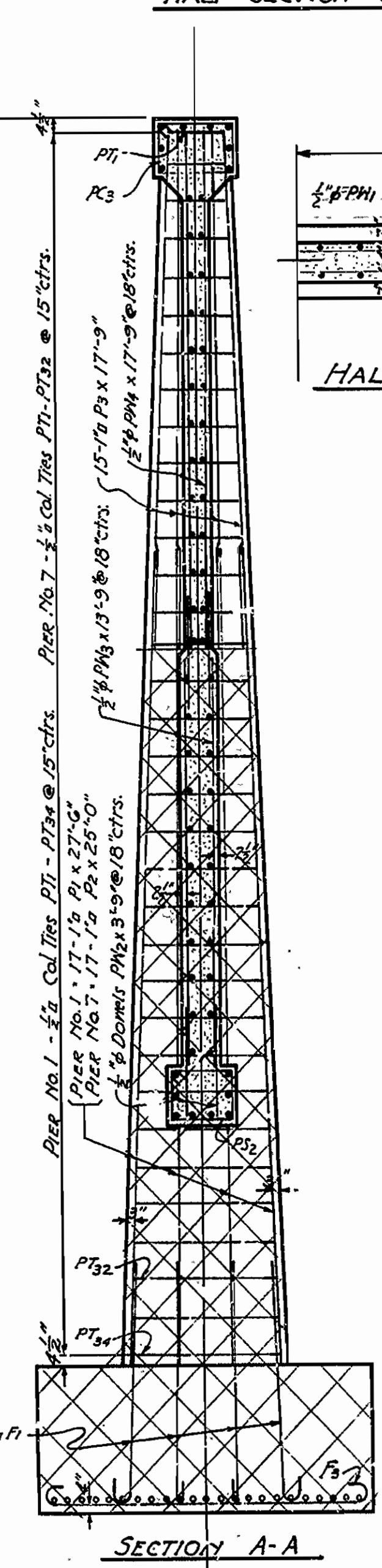
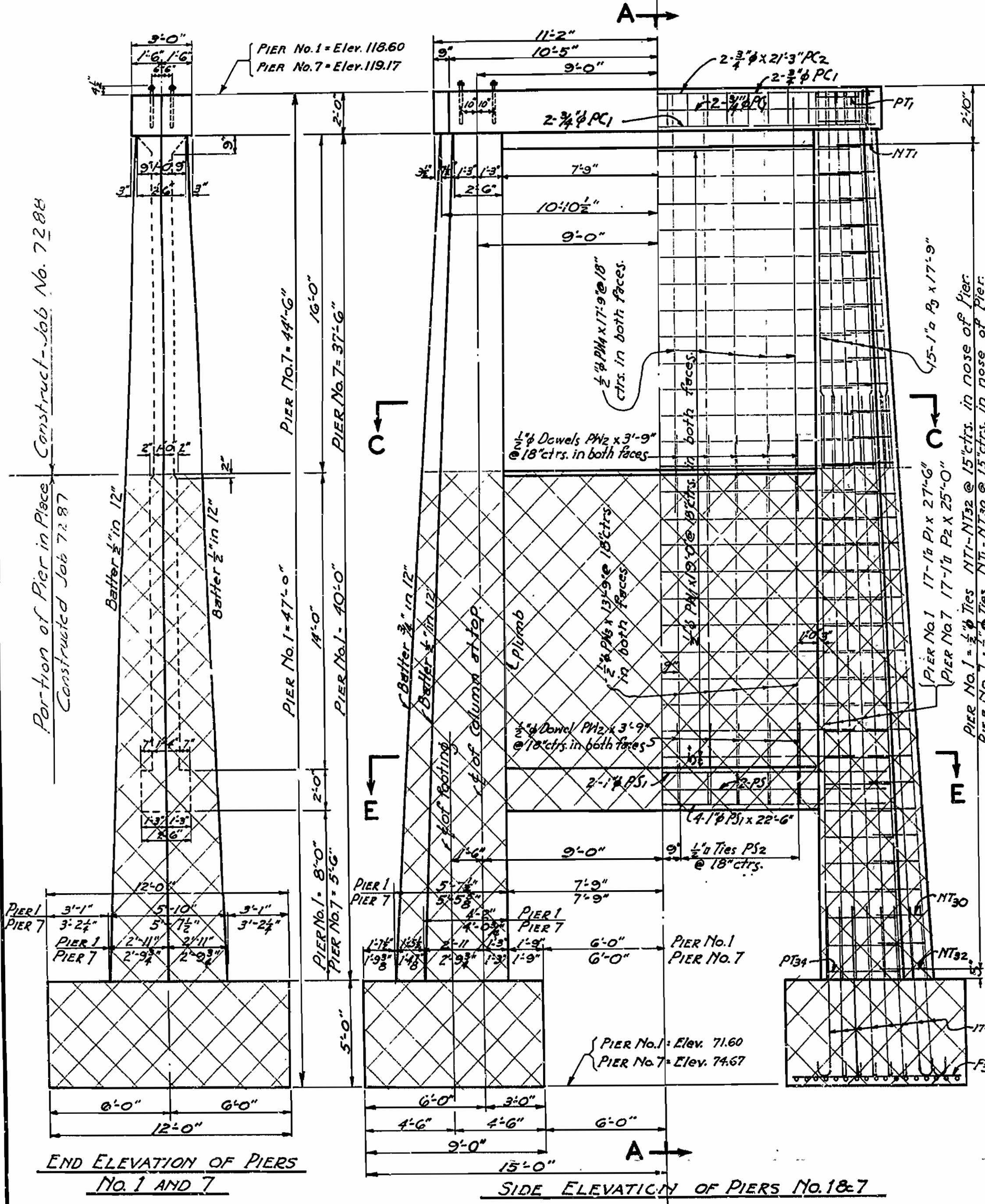
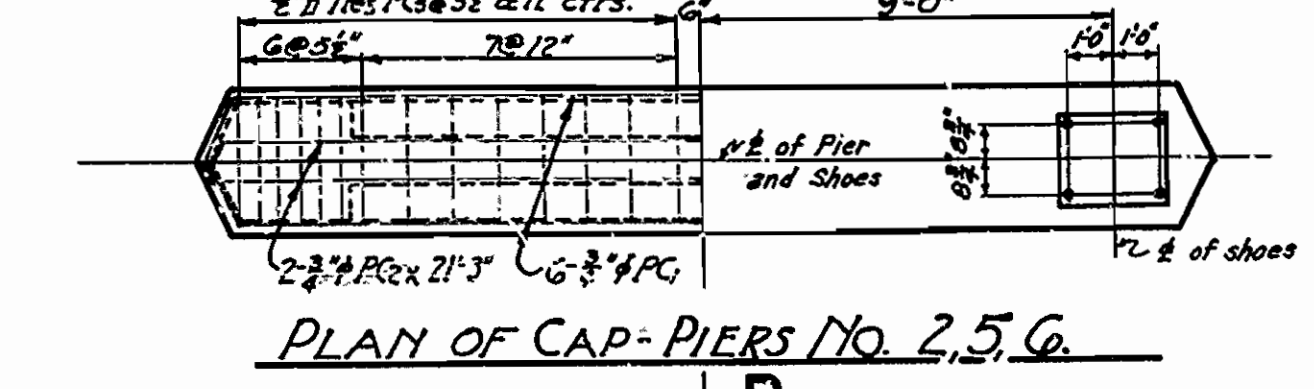
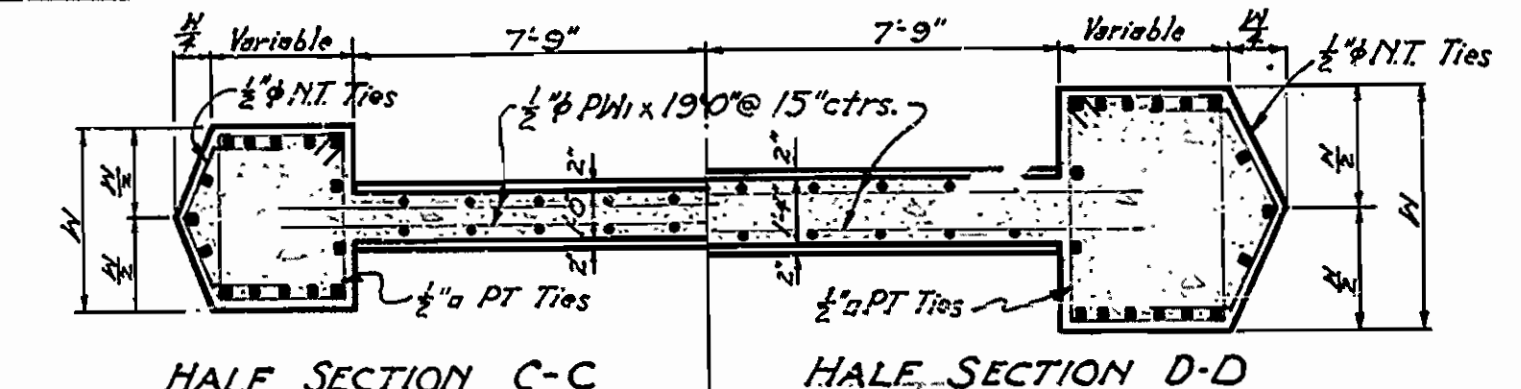
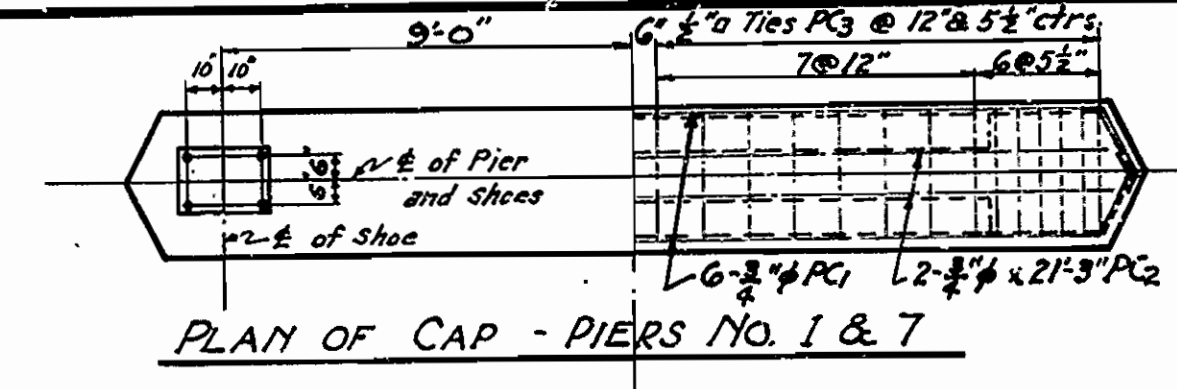
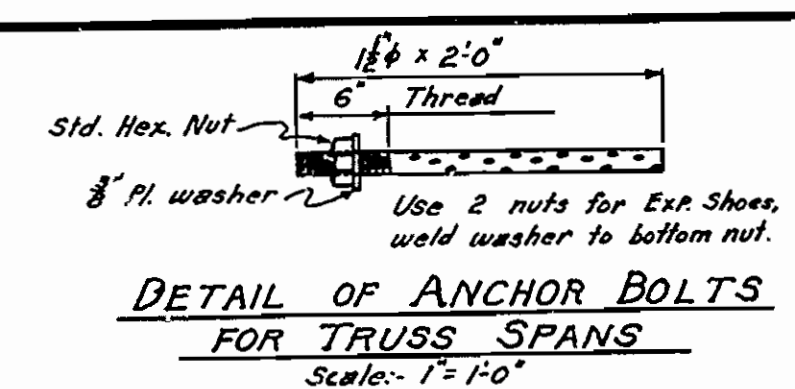
Revised: To indicate work completed under Job No. 7287. H.B. 12-17-45.

SHEET NO. 1
LAYOUT OF APPROACHES
BRIDGE OVER SALINE RIVER
WARREN-WILMAR ROAD

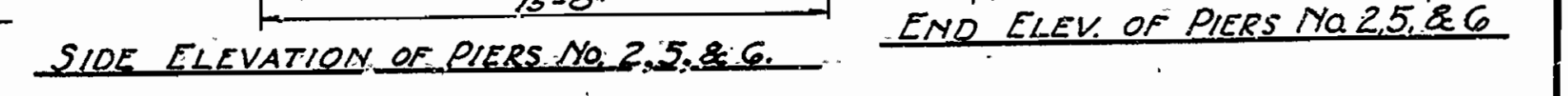
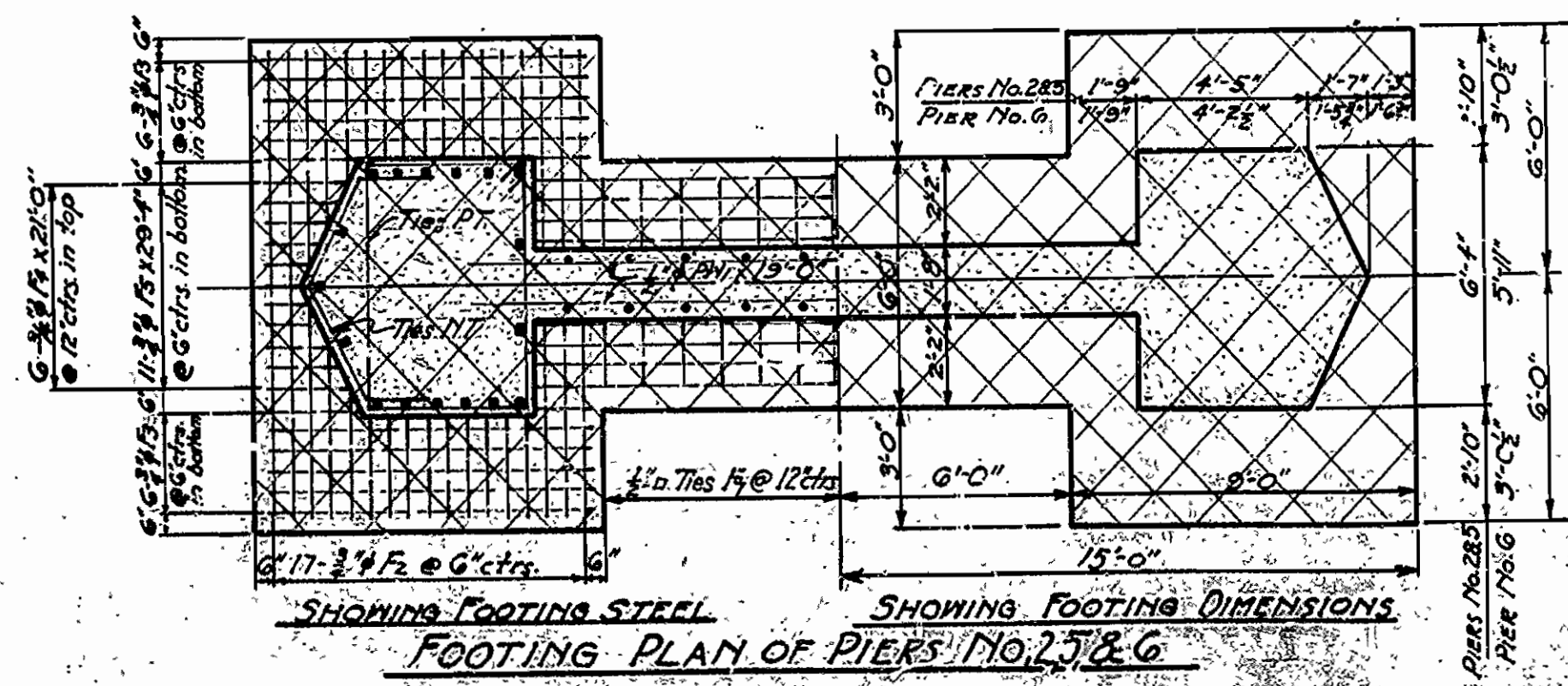
BRADLEY COUNTY
ROUTE 4 SEC. 13
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Scale: 1 in. = 20 ft.
DRAWING NO. G234

M. O. [Signature]
PRINCIPAL HIGHWAY ENGINEER (BROOKS)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	7288	1946	10	26
		STATE JOB NO. 7288	7288	10	26
		" " " 7288	1946	10	26



GENERAL NOTES
All concrete to be Class "A" and shall be poured in the dry. All exposed corners to be chamfered unless otherwise noted.
For Bar List, see Drawing No. 6239
For details of Superstructure see Drawing No. 6240
In general all construction joints in piers shall be then horizontal and shall be provided with keyways, as then 5/16" covering the inside surface of both piers.
The contractor shall accurately place all anchor bolts according to plans.

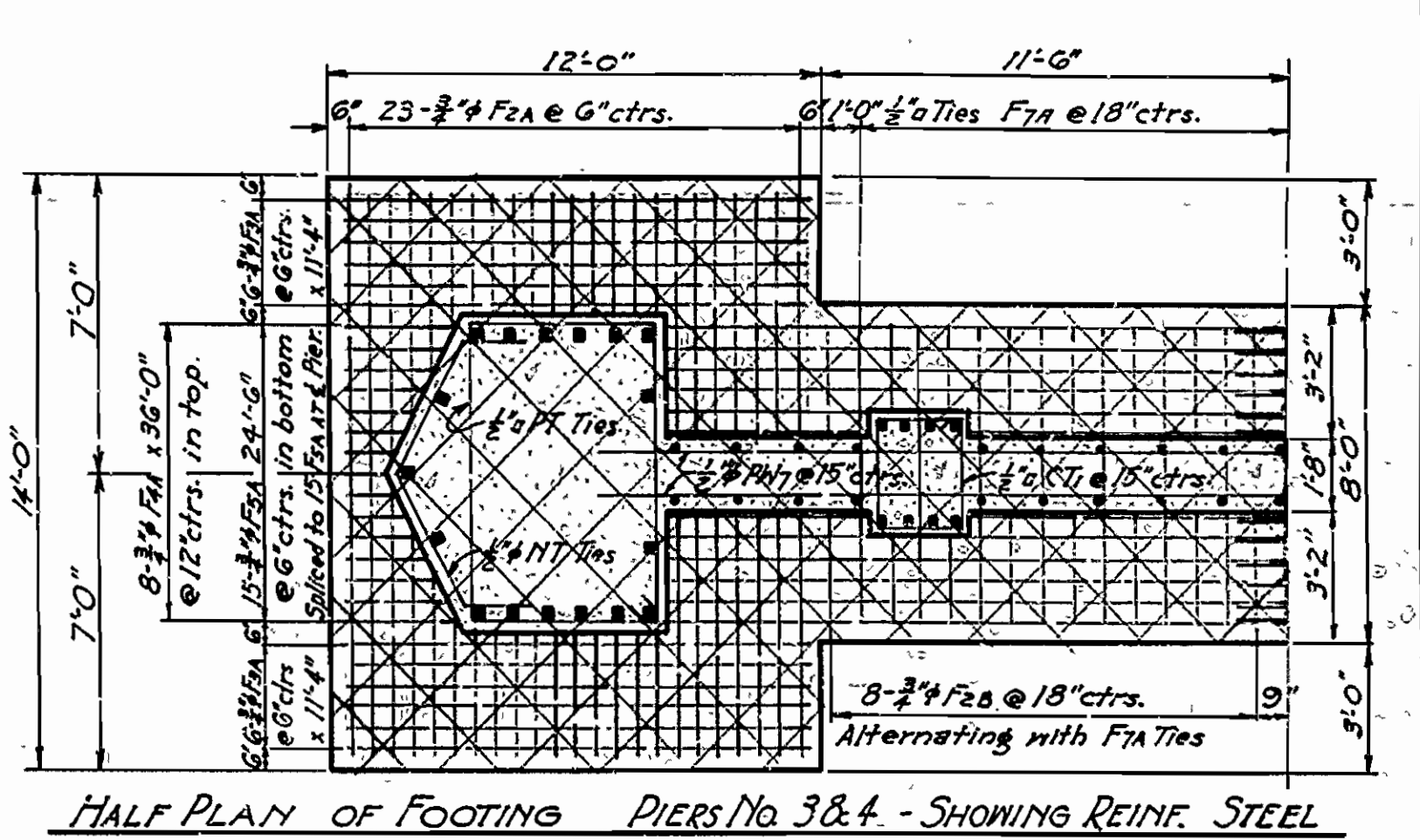
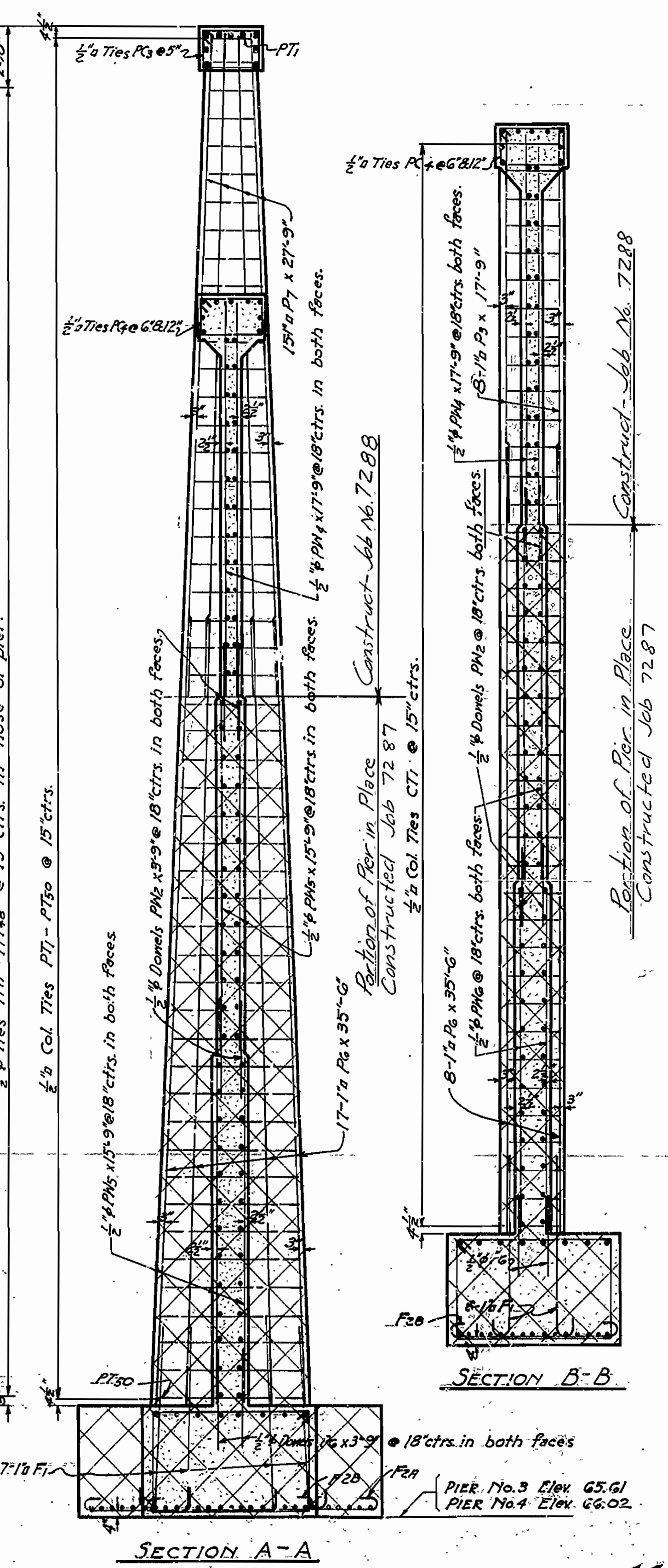
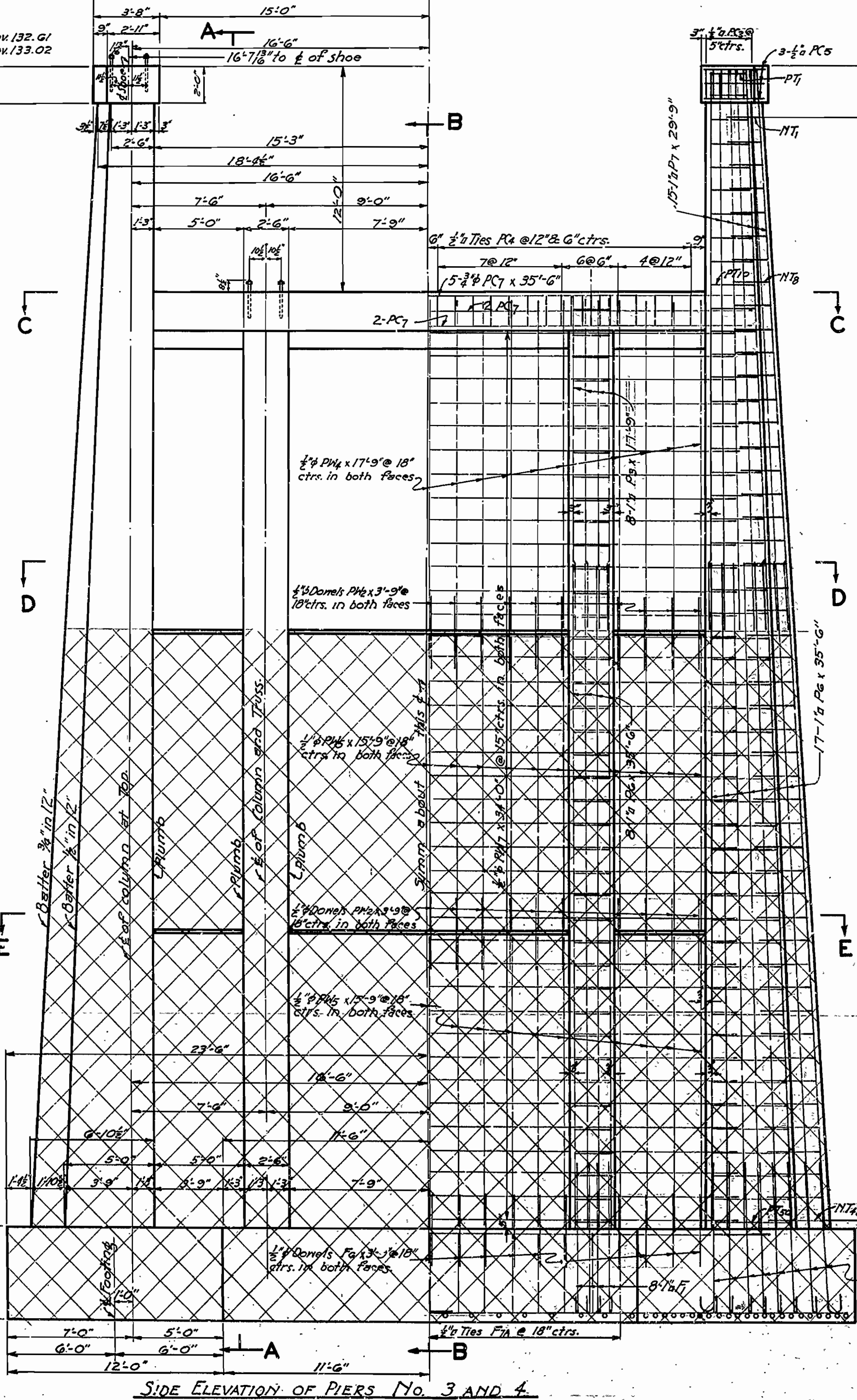
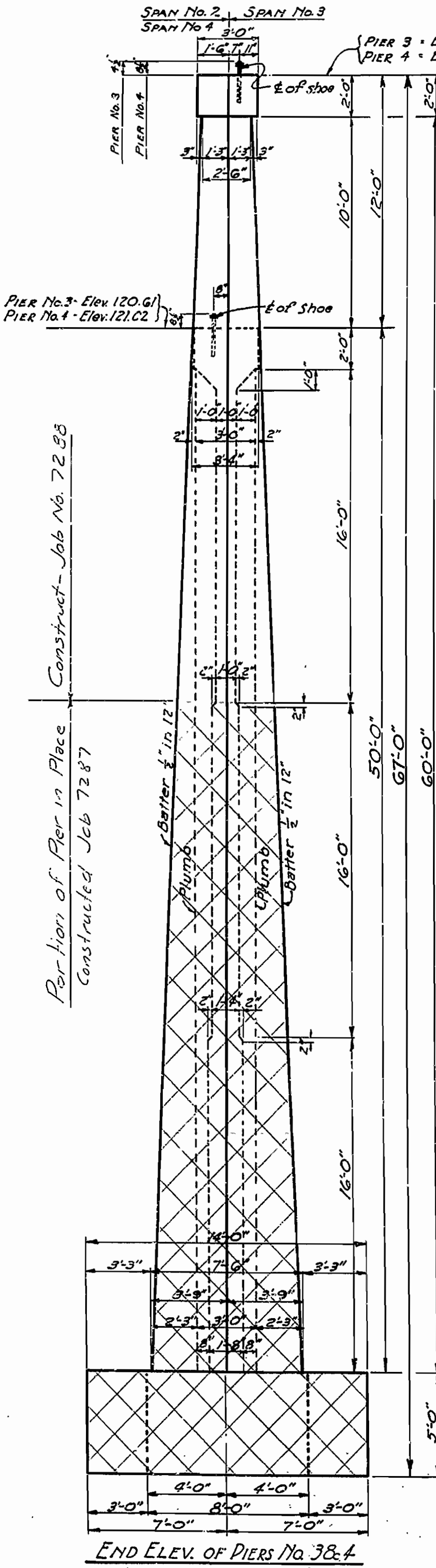
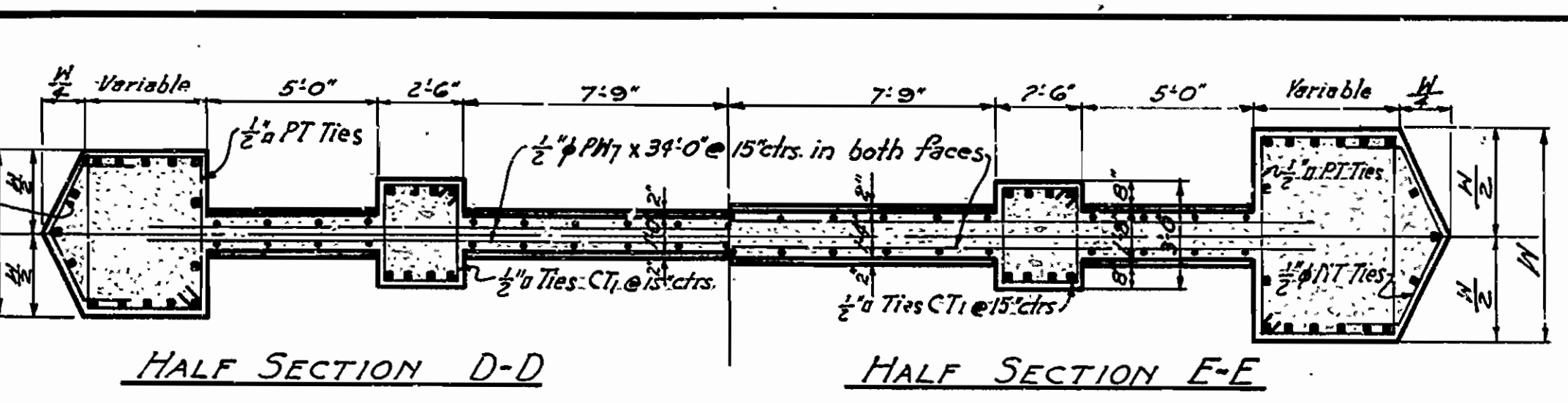
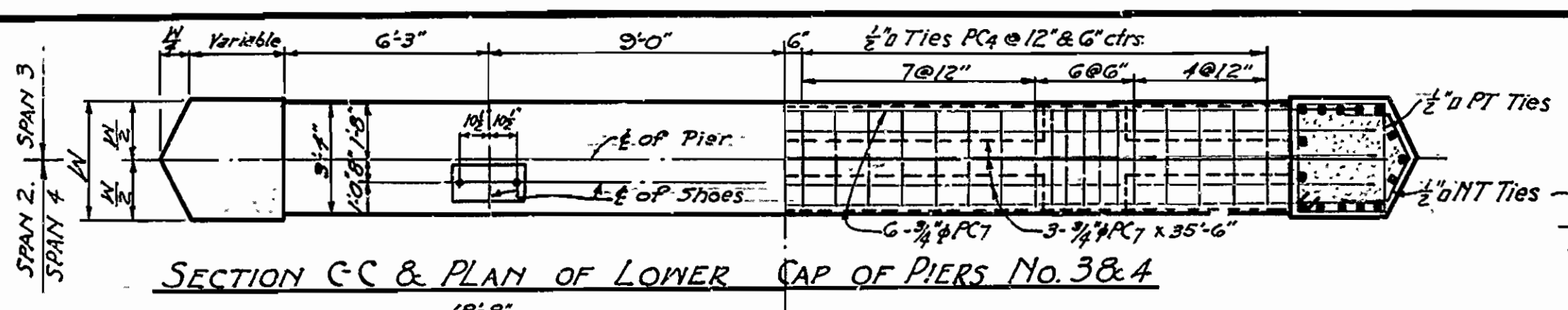
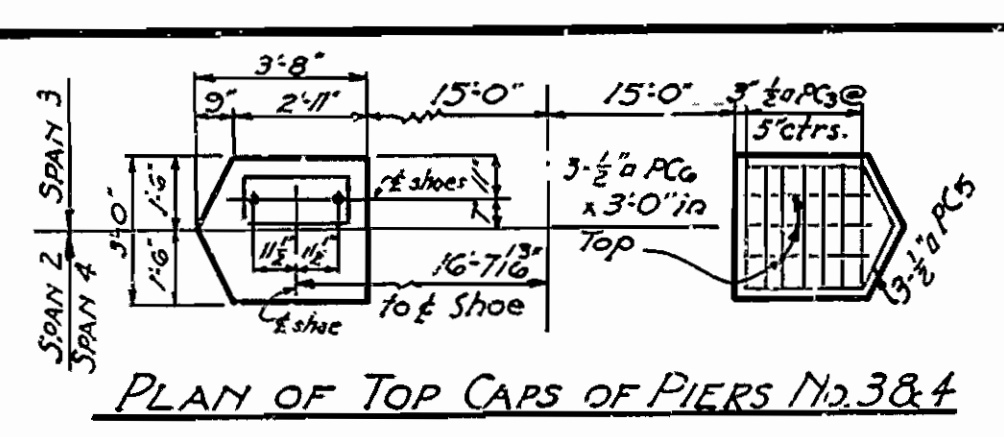


DETAILS OF PIERS NO. 1, 2, 5, 6 & 7
BRIDGE OVER SALINE RIVER
WARREN-WILMAR ROAD
BRADLEY COUNTY
ROUTE 4 SEC. 13

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: HCH Date: 2-16-41
Traced By: WJ Date: 3-20-41
Checked By: Date:
BRIDGE NO. 2212 DRAWING NO. 6238
Scale: 1/2" = 1'-0"
Except as noted

Note: Cross hatched areas indicate portions of piers in place.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	PARNAF46(1)	1946	11	26
STATE JOB NO. 7287		1946	#	#	#
" " " 7288		1946	11	26	



LIST OF BENT BARS FOR PIERS No. 1 to 7 INCL.

MARK	SIZE	LENGTH	A	B	C	BENDING DIAGRAM
F1	1/2"	9'-2"				
F2	3/8"	12'-10"	11'-4"	0'-6"		
F2A	3/8"	14'-10"	13'-4"	0'-6"		
F2B	3/8"	8'-10"	7'-4"	0'-6"		
PC1	3/8"	25'-0"				
PT1 to PT50	1/2"	Varies 8'-10" to 24'-2"	Varies 2'-0" to 7'-1/2"	Varies 2'-08" to 4'-7/8"		
PC3	1/2"	9'-5"	2'-8"	1'-8"		
PC4	1/2"	10'-1"	3'-0"	1'-8"		
CT1	1/2"	10'-3"	2'-7/8"	2'-7/8"		
F7	1/2"	19'-11"	4'-5"	5'-2"		
F7A	1/2"	23'-11"	4'-5"	7'-2"		
PS2	1/2"	8'-3"	2'-1/2"	1'-7/8"		
PC5	1/2"	8'-9"	1'-9/16"	2'-7/8"	2'-10 1/2"	
NT1 to NT48	1/2"	Varies 5'-2" to 10'-9"	Varies 1'-1" to 3'-10"	Varies 1'-6" to 0'-10 1/2"		

Dimensions relating to reinforcing steel are to center of bars. Reinforcing steel to be deformed bars of Structural or Intermediate grade. Shop lists and bending diagrams must be submitted and approved before fabrication is begun.

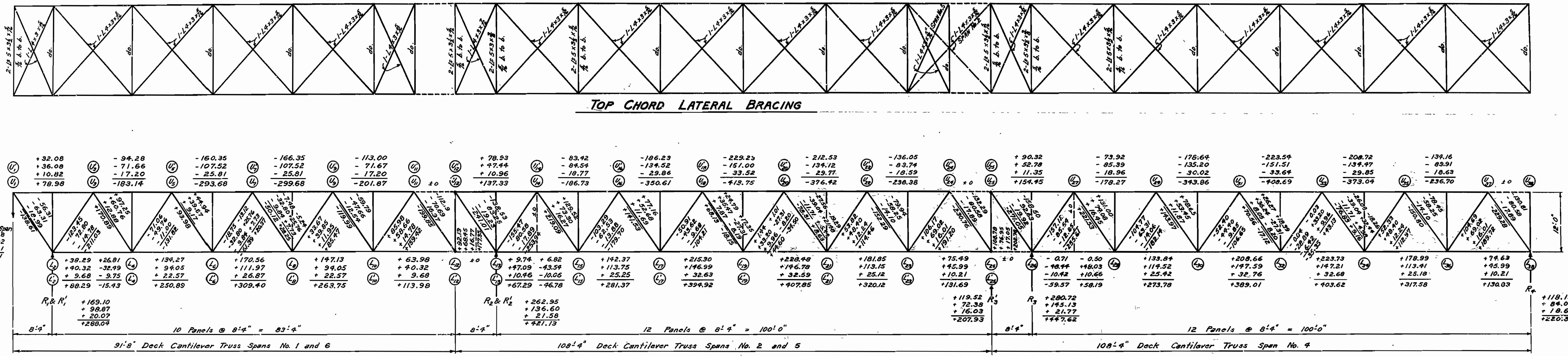
FOR GENERAL NOTES SEE DRAWING No. G238
 Note: Cross hatched areas indicate portions of piers in place

**DETAILS OF PIERS NO. 3&4
 BRIDGE OVER SALINE RIVER
 WARREN-WILMAR ROAD
 BRADLEY COUNTY
 ROUTE 4 SEC. 13**

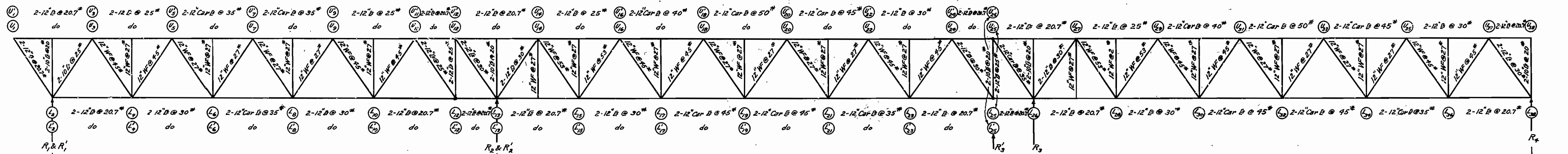
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Scale: 1/2" = 1'-0"
 Drawn By: M.C.H. Date: 3-19-41
 Traced By: M.C.H. Date: 3-25-41
 Checked By: M.C.H. Date: 3-25-41
BRIDGE NO. 2212 DRAWING NO. 6239

M.C.H.
 PRINCIPAL HIGHWAY ENGINEER (BRIDGES)

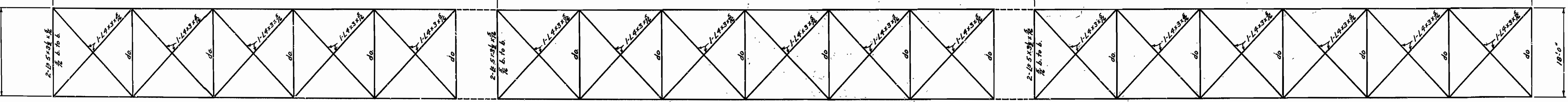
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FARN. F&G(1)	1944	12	26
STATE JOB NO. 7288		1944		12 26	
" " " 7288		1944		12 26	



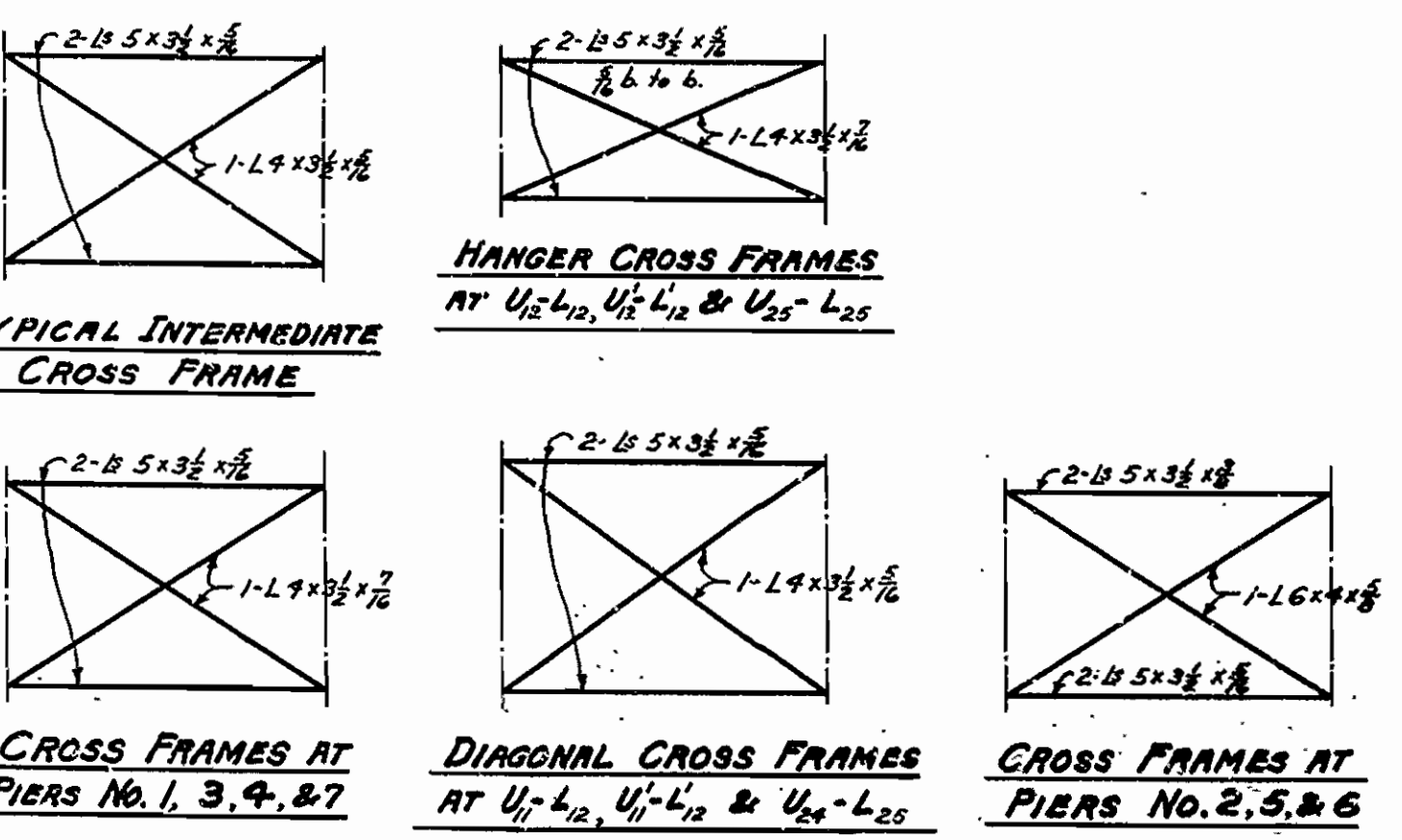
DESIGN STRESSES



SELECTION OF MEMBERS



BOTTOM CHORD LATERAL BRACING



GENERAL NOTES

Concrete Deck: All concrete in roadway slab, sidewalk slab, and rail posts and brackets to be Class 'S'. All exposed corners to be chamfered unless otherwise noted.

Rivets: In truss, floorbeams, cross frames, and lateral bracing use $\frac{3}{4}$ " in handrail use $\frac{3}{8}$ ". Use machine bolts where bolts are indicated.

Holes: All holes shall be sub-punched to $\frac{1}{16}$ " less than nominal size of rivets, and reamed to $\frac{1}{16}$ " larger than nominal size of rivet.

Camber: Trusses shall be cambered to fit the vertical curve shown on Layout plus camber required for deflection due to dead load.

Shop Paint: All parts which come in contact shall be painted one coat of red lead and raw linseed oil before they are riveted together. When assembled and after all shop work has been completed, all steel shall be given one coat of red lead and raw linseed oil before shipment.

Field Paint: 1st coat, white lead. 2nd coat, Aluminum paint.

Shapes with equal or greater strength may be substituted for those shown. Payment, however will be based upon the shapes shown or actually used, whichever is the lesser.

All welded connections to have $\frac{1}{8}$ " fillet shop welds, except as noted. Welding to be by the electric arc process.

Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams must be submitted and approval secured before fabrication is begun. This drawing shows general features of design only. Shop drawings shall be made in accordance with the specifications submitted and approval secured before fabrication is begun.

SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 1, 1940.

UNIT STRESSES: Class 'S' Concrete (n=9) 100%; Reinforcing steel 18,000 $\frac{1}{4}$ "; Structural steel 18,000 $\frac{1}{4}$ "

DESIGN LIVE LOAD: H-20 Loading A.S.H.O
Width of Lane = 10 Feet

FLOOR BEAM DATA

	Positive	Negative
Dead Load Moment	98,870	390,290
Sidewalk Live Load	None	73,310
Live Load Moment	2,052,100	798,800
+ 30% Impact		
Totals	2,150,970	(212,400)
Section Modulus required	119.5	67.5
Use: 21" CB @ 62" S.M. = 126.9		

NOTE

In each case the dead load is given first, the live load, second, the impact third, and the total stress last. All stresses are given in thousands of pounds. Plus (+) = Tension. Minus (-) = Compression.

For all verticals not shown otherwise:-
 Dead Load = - 21.50
 Live Load = - 46.24
 Impact = - 13.87
 Total = - 81.61

Revisions: Field Paint 12-17-45 - H.B.
 Size and Wt. of members, W.C.H. 10-31-46.
 Weight of member 125-129, W.C.H. 6-10-47.

DESIGN STRESSES, SELECTION OF MEMBERS & GENERAL NOTES FOR DECK CANTILEVER TRUSS SPANS BRIDGE OVER SALINE RIVER WARREN - WILMAR ROAD BRADLEY COUNTY ROUTE 4 SEC. 13

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

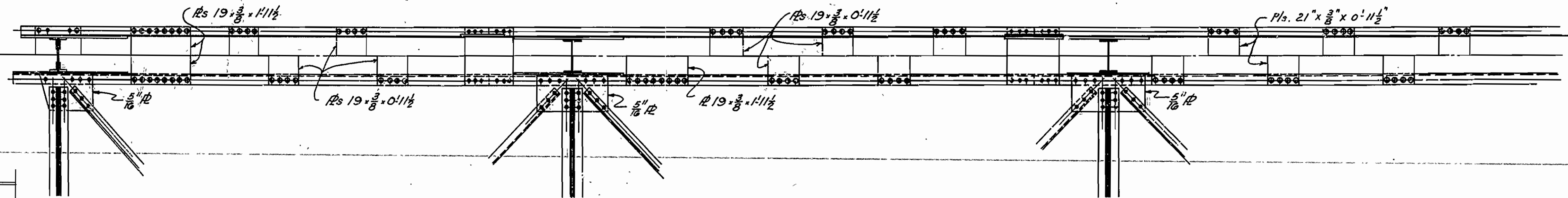
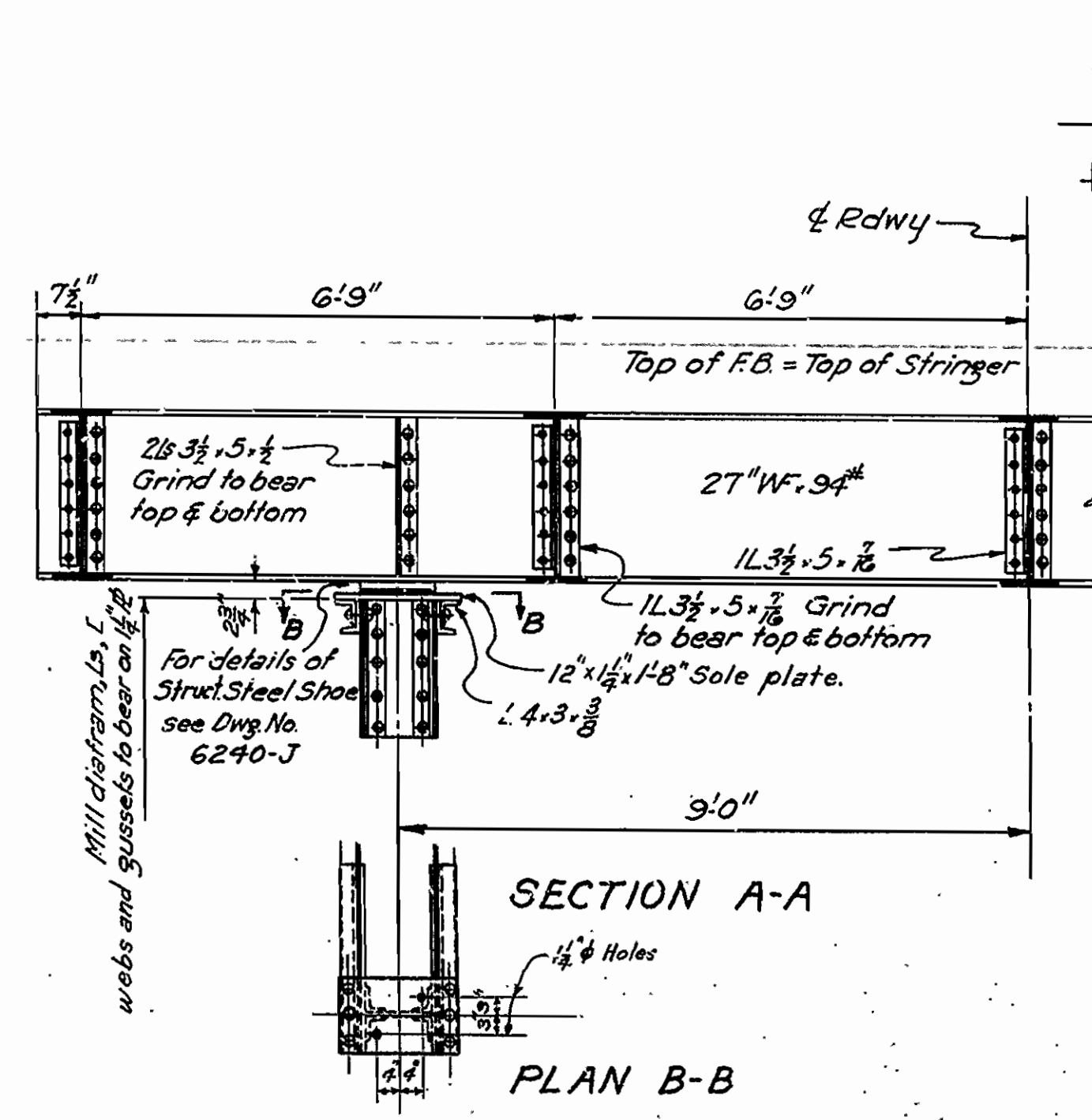
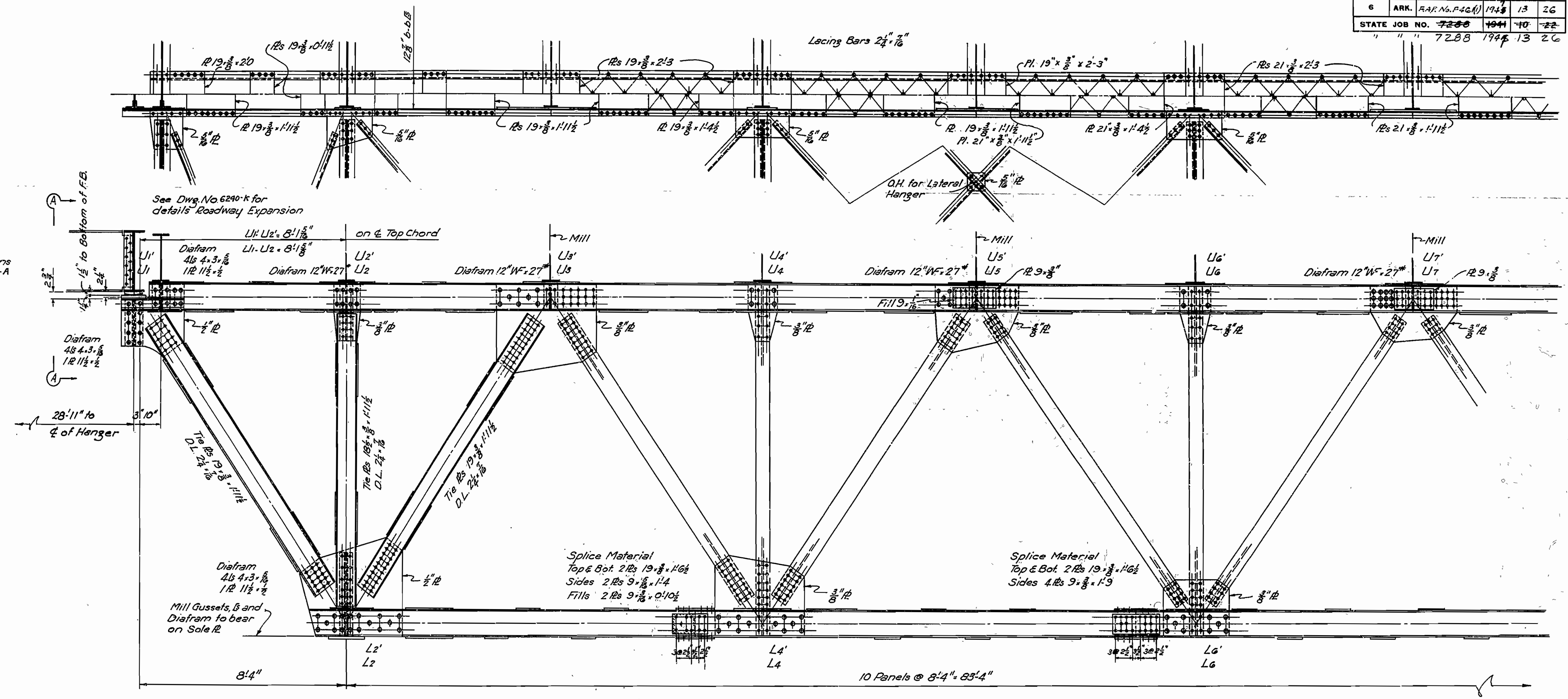
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 Traced By: W.C.H. Date: 9-25-41
 Checked By: _____ Date: _____

Scale: 1 in. = 10 ft. - 0 in.

BRIDGE NO. 2212 DRAWING NO. 6240-C

W.C.H.
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

NO. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	ARK. No. F-46(A)	1948	13	26
		STATE JOB NO. 7288	1948	13	26



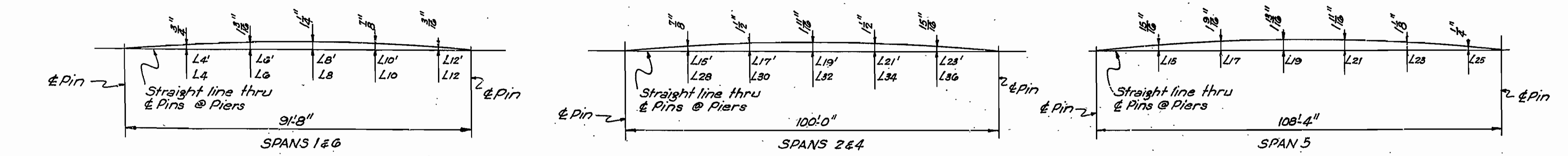
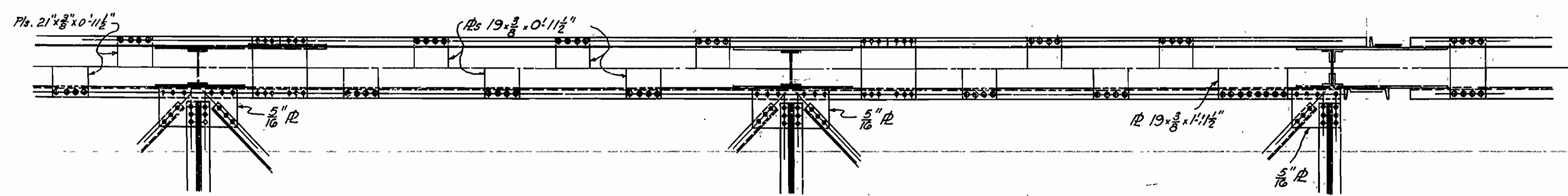
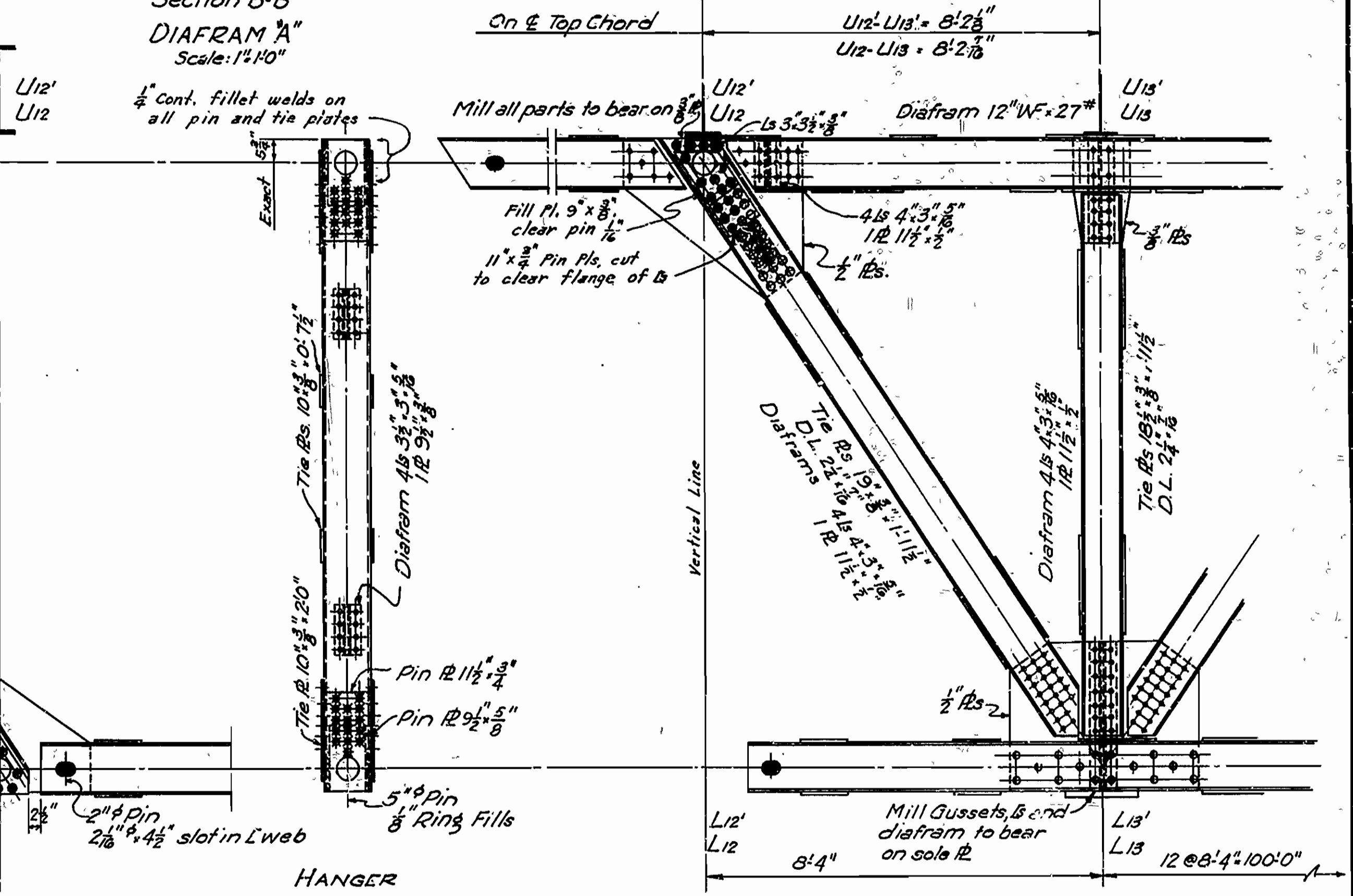
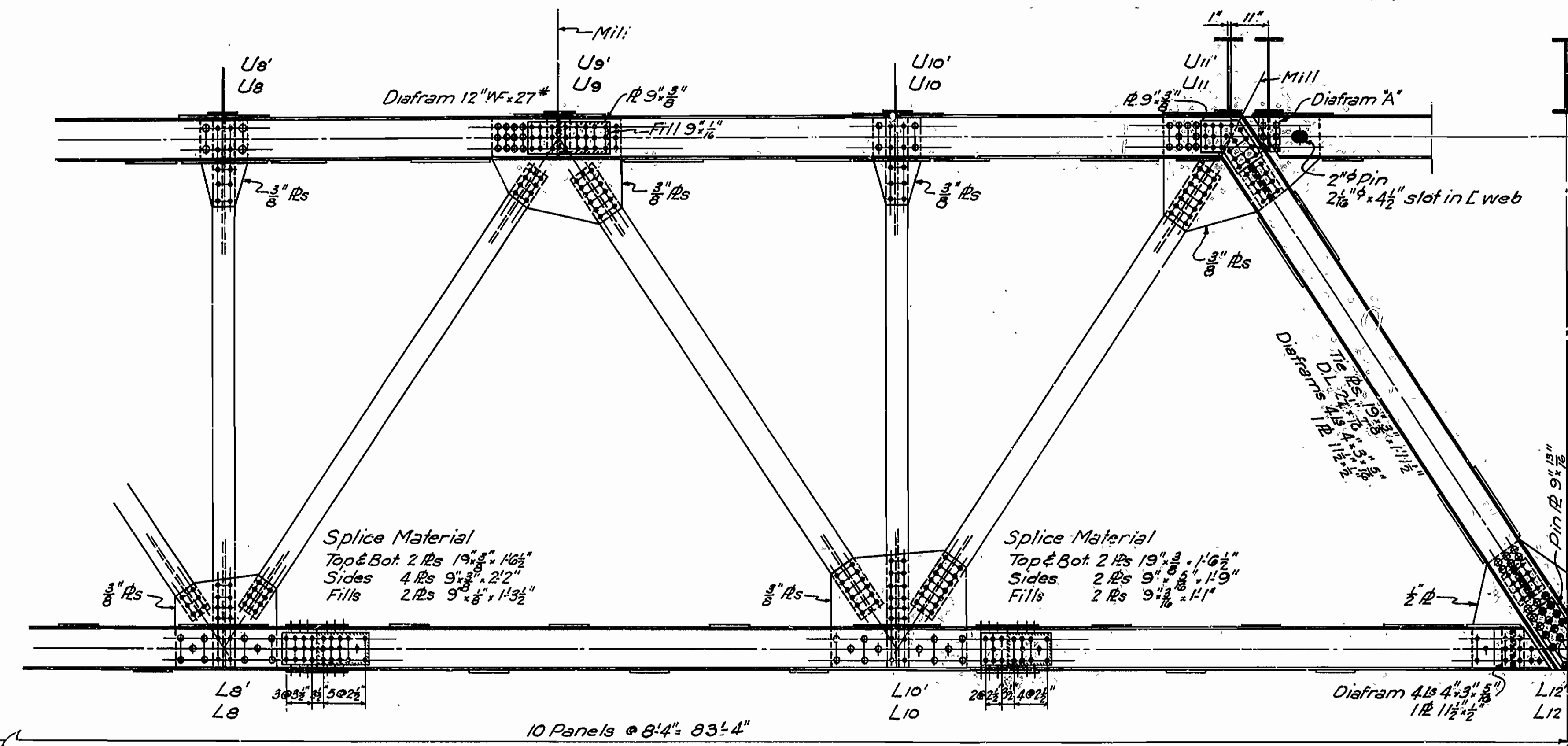
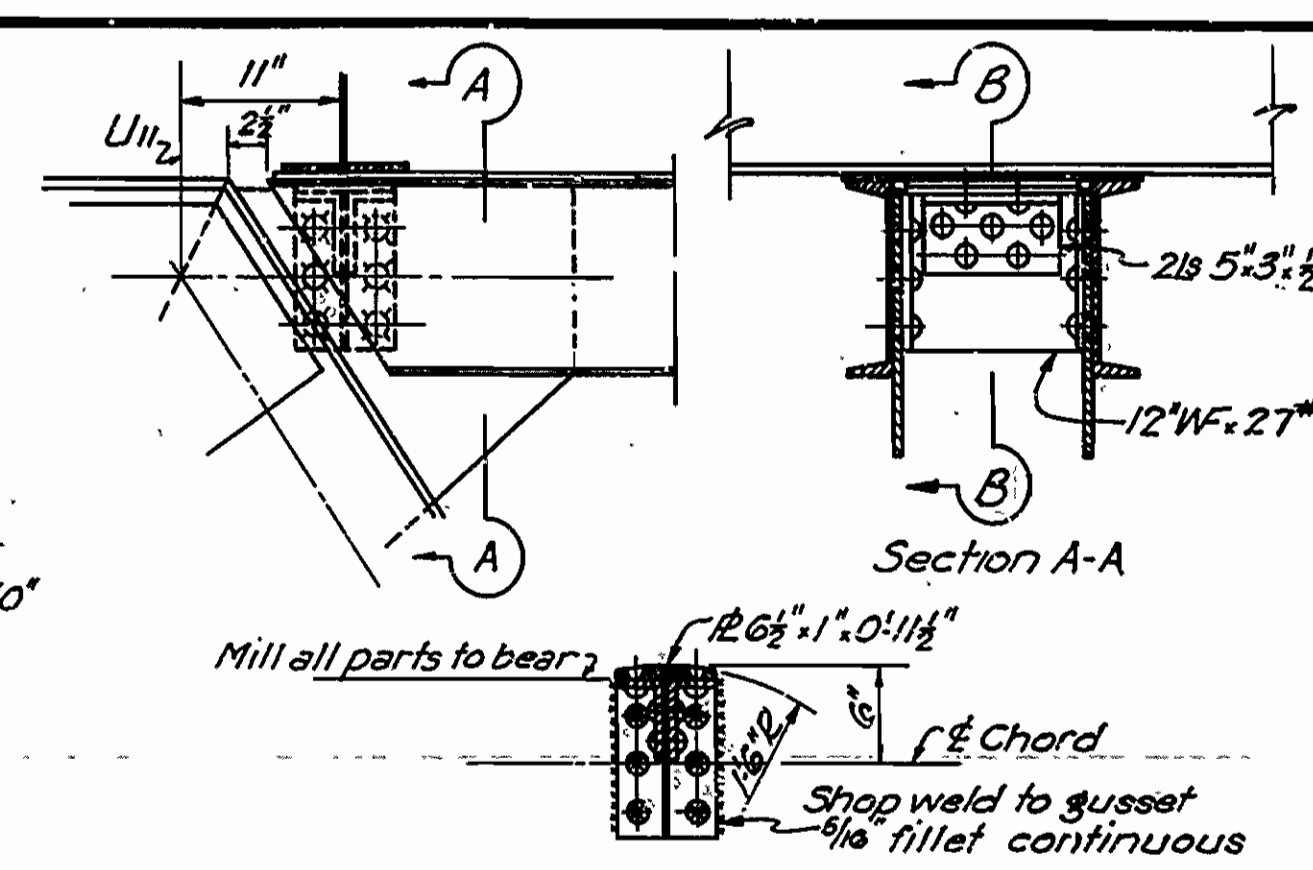
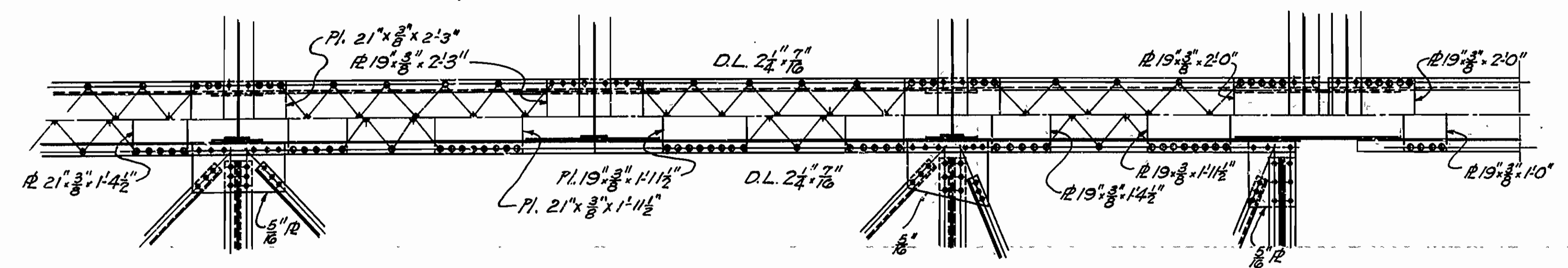
For Stresses, Sections and General Notes, see Dwg. No. 6240-C
For Roadway Section and Roadway Expansion details, see Dwg. No. 6240-K

Revisions: - Wk. of members: W.C.H. 10-31-44.
- Details of U, A, U' and Sec. A-A: W.C.H. 3-28-47.
- Tie Rs. and splice details: W.C.H. 6-10-47.

J.C. Sawyer
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

DETAILS DECK TRUSS SPANS
SHEET 1 OF 7
SALINE RIVER BRIDGE
WARREN-WILMAR ROAD
BRADLEY COUNTY
ROUTE 4 SEC. 13
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: EBS Date: 2-4-41
Traced By: EBS Date: 10-17-41
Checked By: Date:
BRIDGE NO. 2212 DRAWING NO. 6240-D
Scale: $\frac{1}{2}$ " = 1'-0"

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAP No. 40(1)	1943	14	20
STATE JOB NO. 72-88		72 B 8 1949		14	20



CAMBER BLOCKING DIAGRAMS
 Ordinates shown are for VC camber plus dead load deflection.

Revisions:- Wt. of 12' WF diaphragms. W.C.H. 10-31-46.
 Hanger details and connections. W.C.H. 6-10-47.
 Tie Pls. and splice details. W.C.H. 6-10-47.

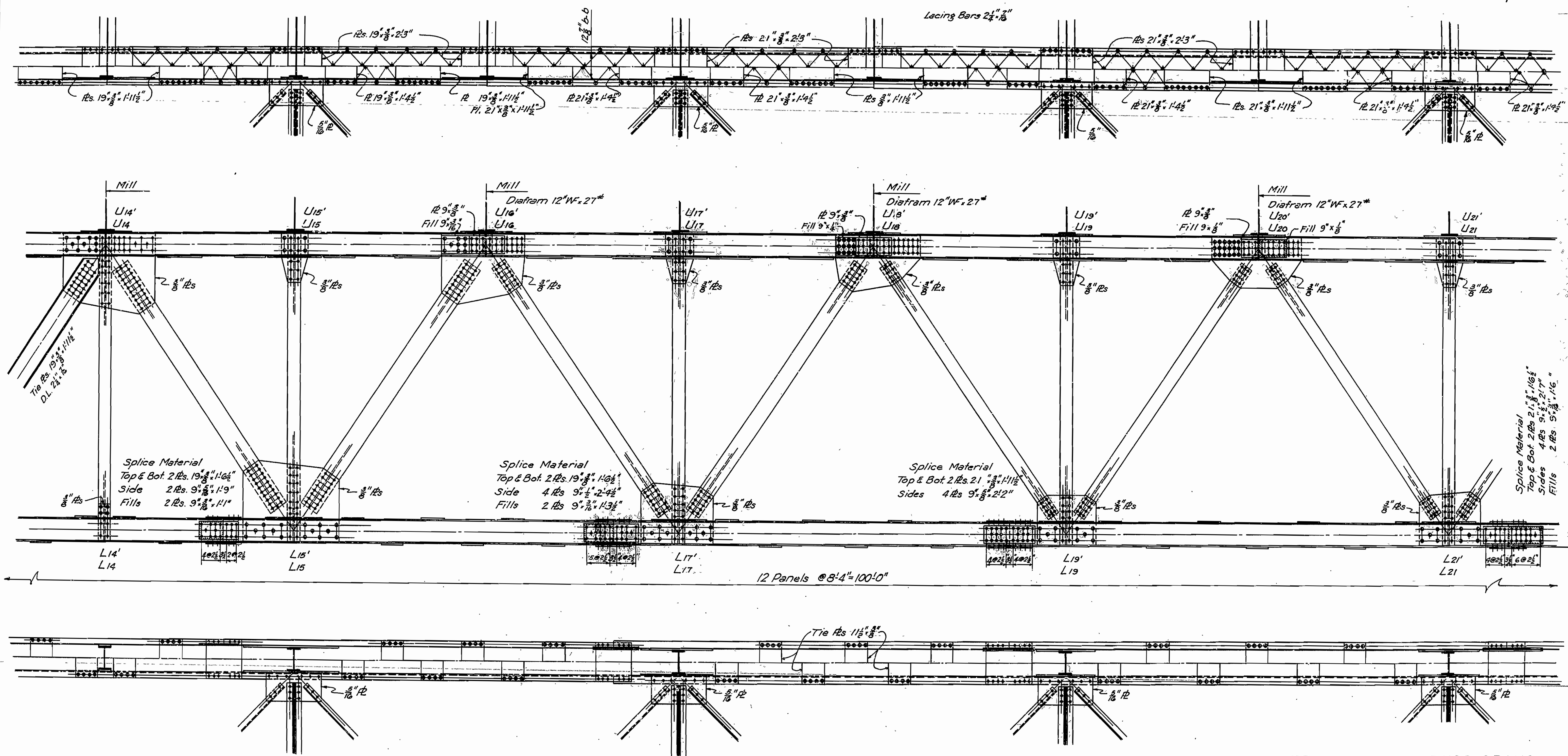
N.O. Lawrence
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

DETAILS DECK TRUSS SPANS
 SHEET 2 OF 7
SALINE RIVER BRIDGE
WARREN-WILMAR ROAD
BRADLEY COUNTY

ROUTE 4 SEC. 13
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: EBS Date: 7-7-41
 Traced By: EBS Date: 10-6-41
 Checked By: Date:
 Scale: 1/2 in. = 1 ft. and as noted

BRIDGE NO. 2212 DRAWING NO. 6240-E

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	PA 1947-48(1)	1948	15	26
STATE JOB NO. 7288		" " " 7288 1948 15 26			

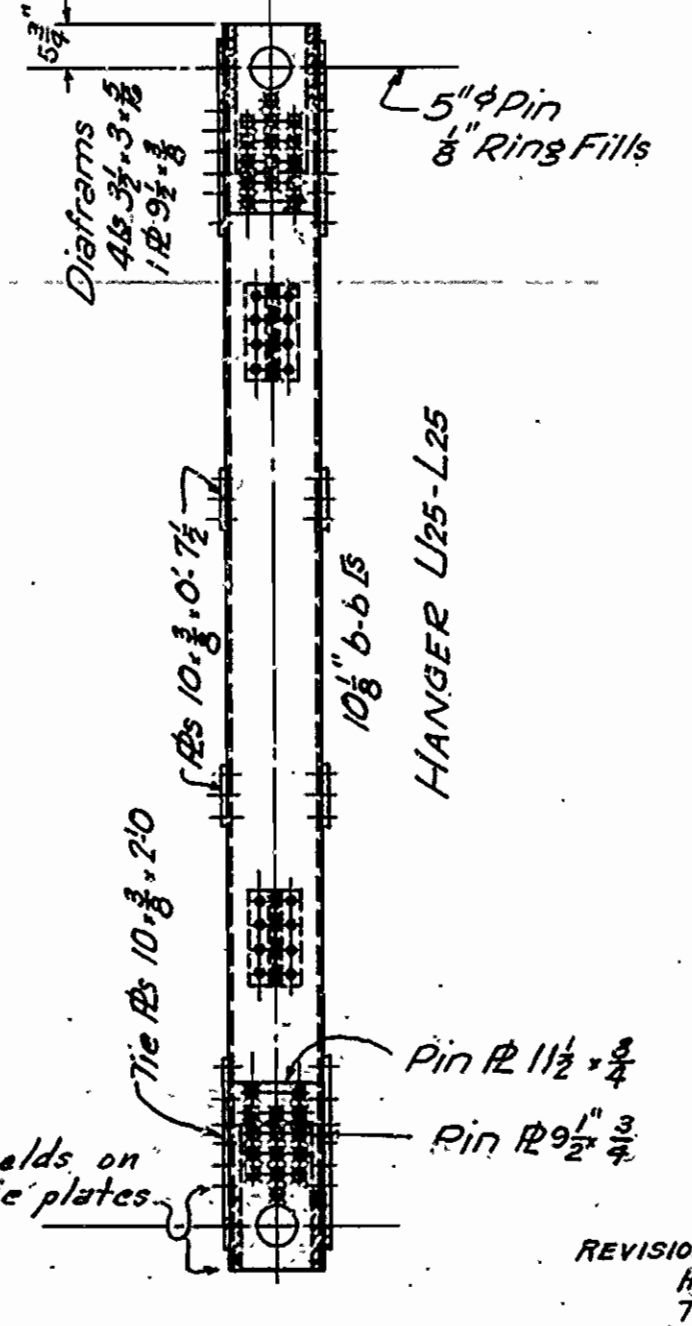
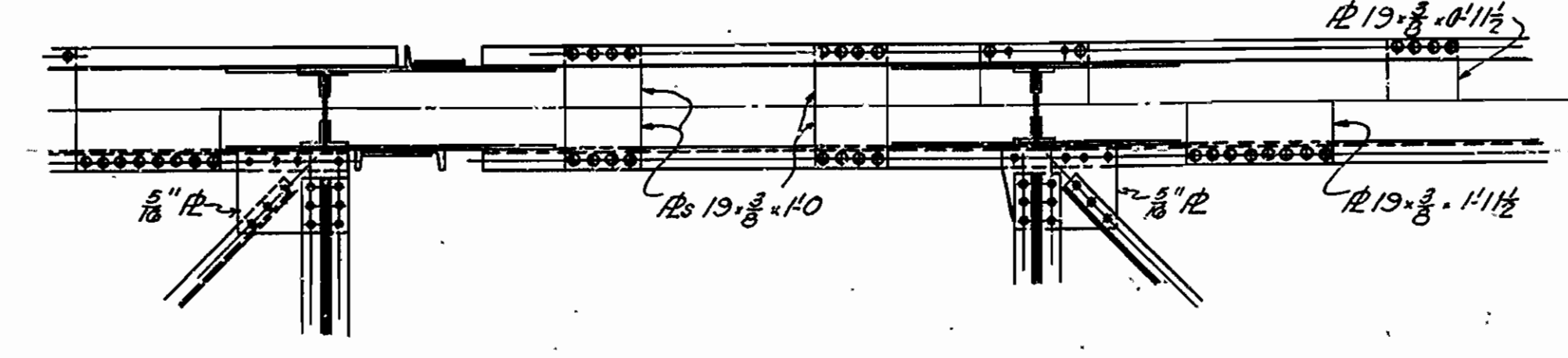
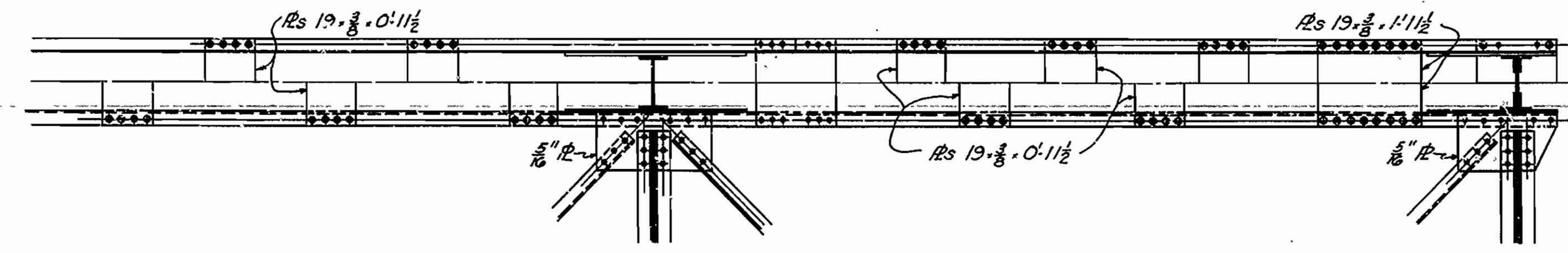
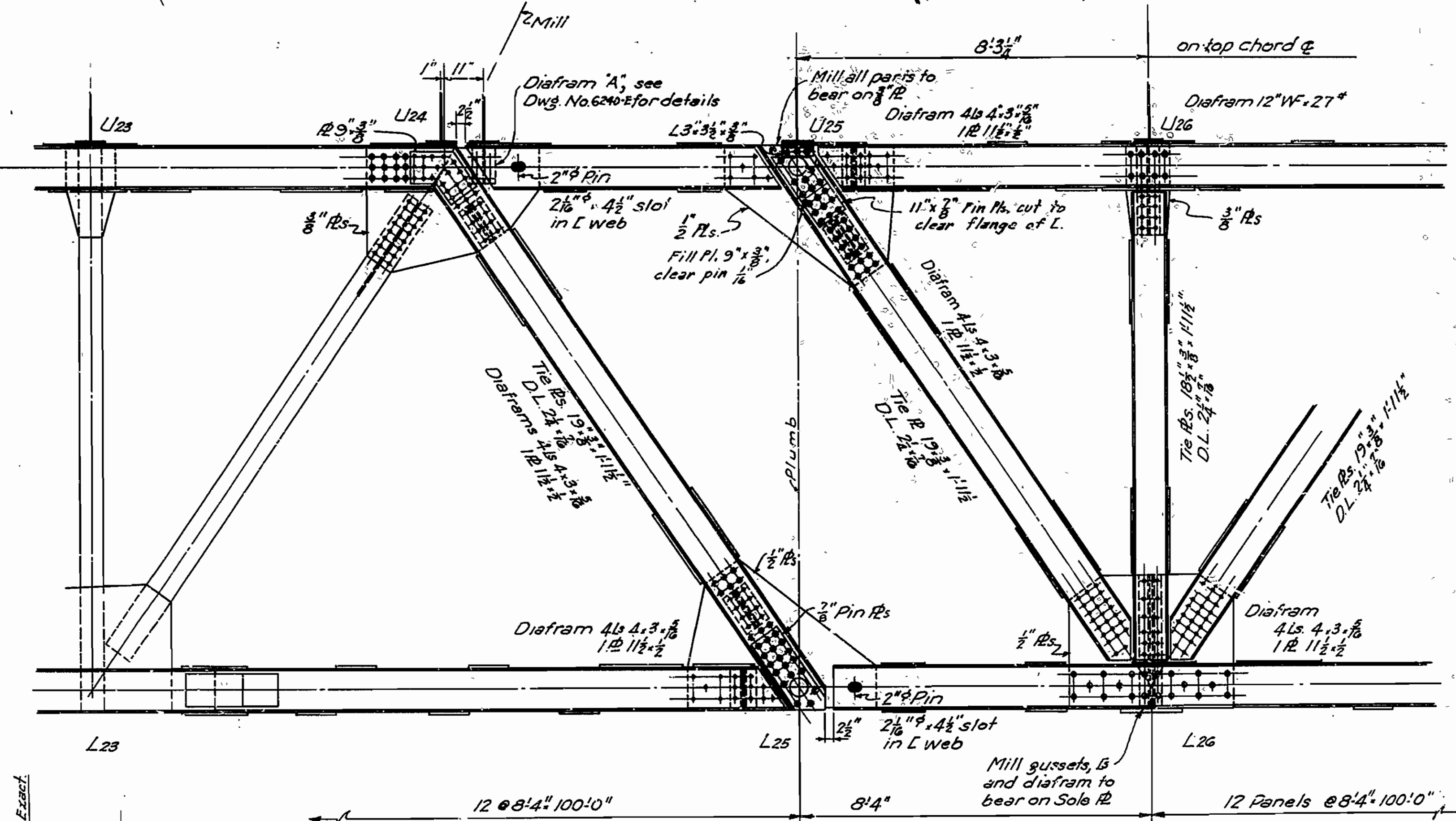
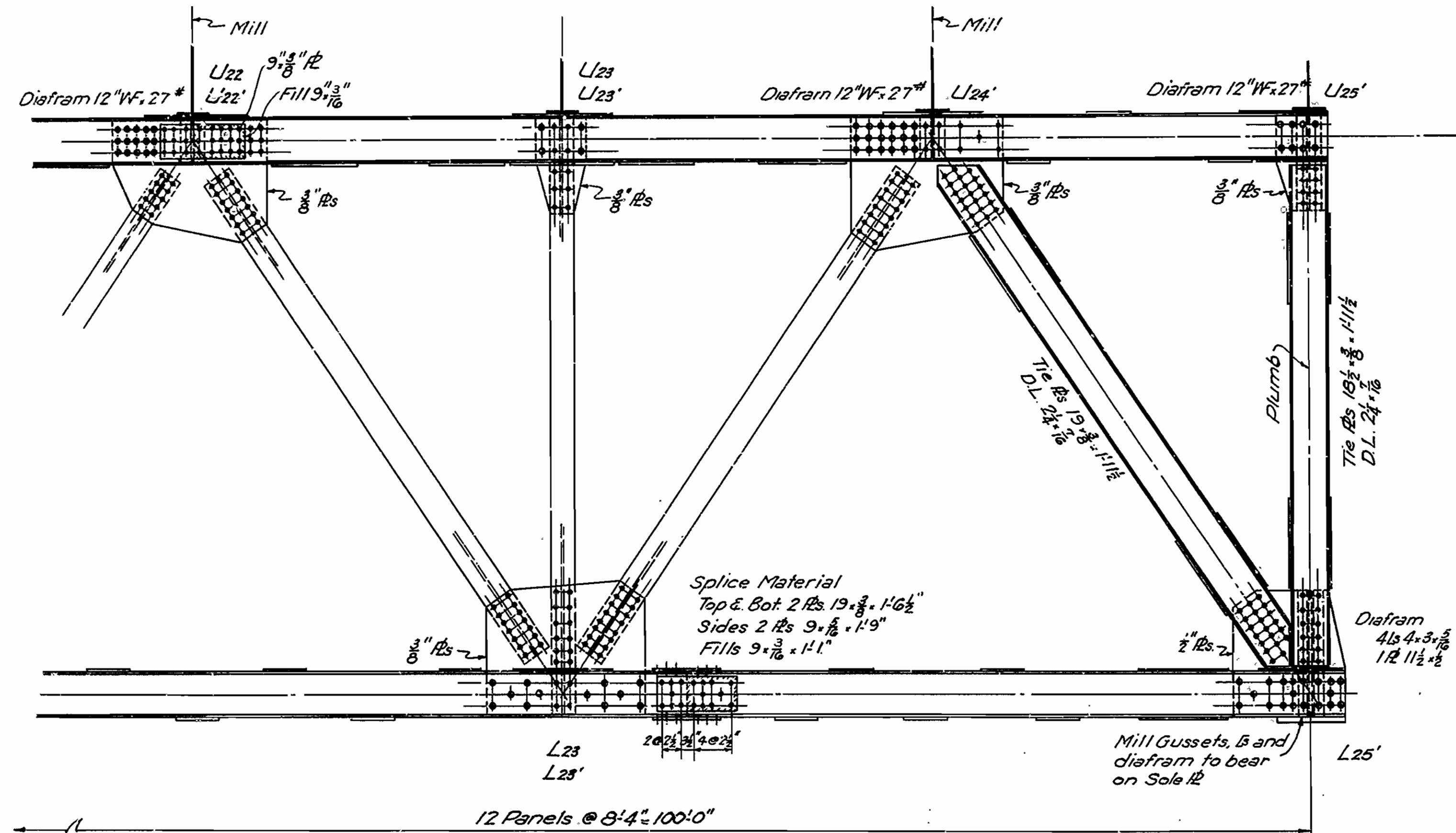
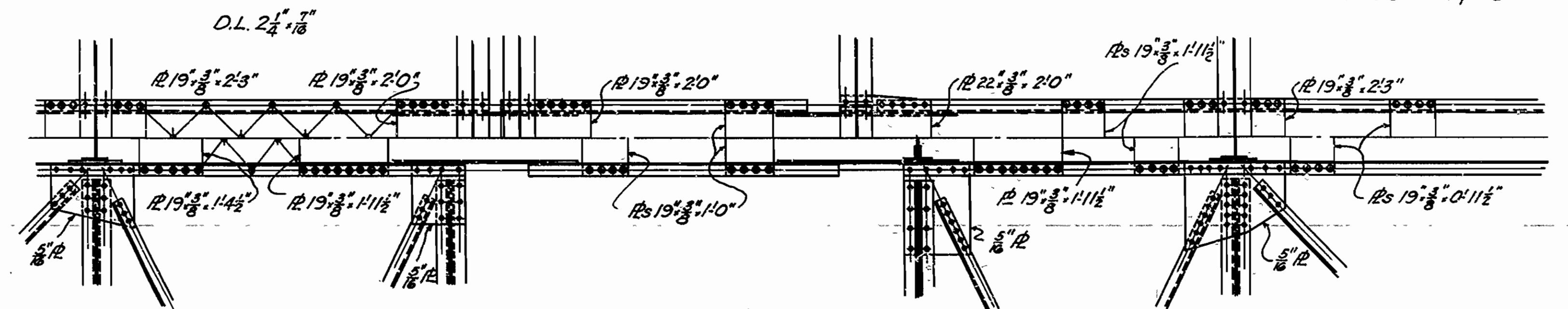
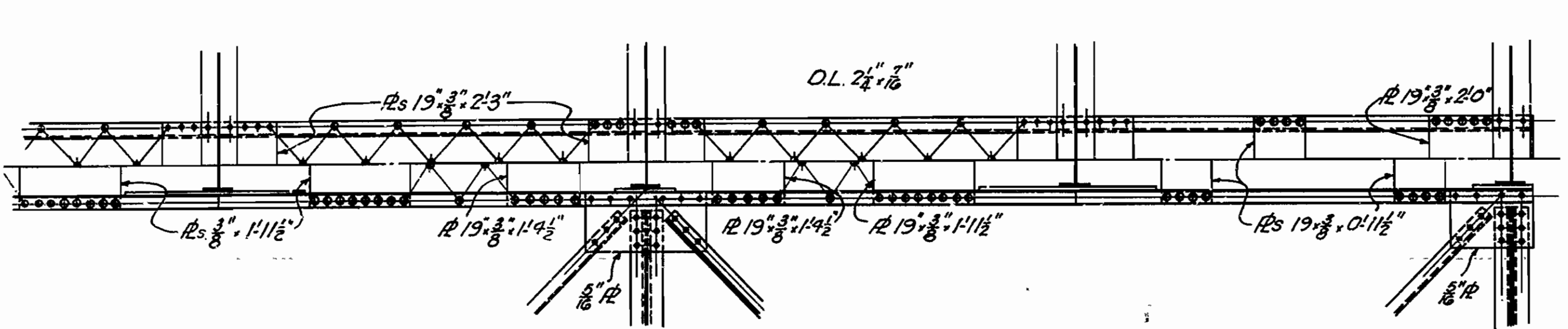


DETAILS DECK TRUSS SPANS
 SHEET 3 OF 7
SALINE RIVER BRIDGE
WARREN - WILMAR ROAD
BRADLEY COUNTY
 ROUTE 4 SEC. 13
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: EBS Date: 9-11-41
 Traced By: EBS Date: 10-8-41
 Checked By: Date: _____
 Scale: 1/2" = 1'
BRIDGE NO. 2212 DRAWING NO. 6240-F

REVISIONS: - Wt. of 12" WF diaphragms, W.C.H. 10-31-46.
 Tie R2s and splice details, W.C.H. 6-10-47.

M. Blawie
 PRINCIPAL HIGHWAY ENGINEER (S. 1936)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FA No. F421(1)	1948	16	26
STATE JOB NO. 7288			1941	22	
" " " 7288			1948	16	26

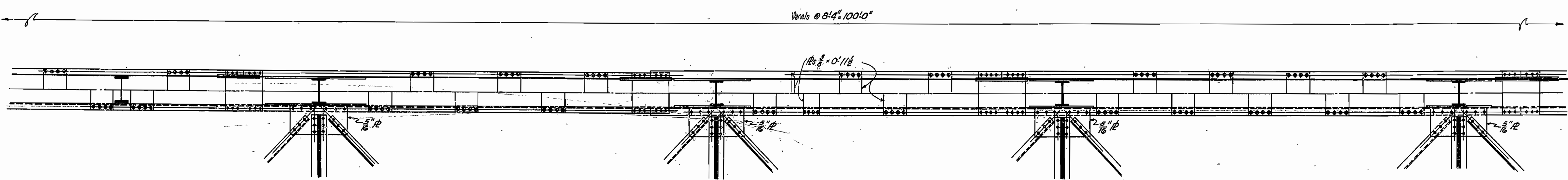
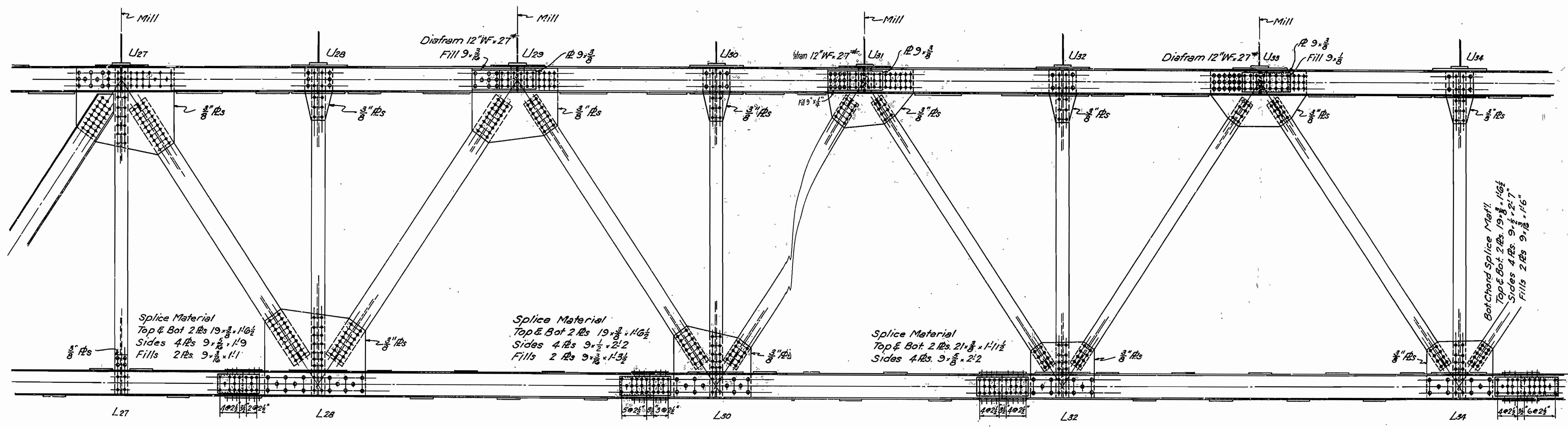
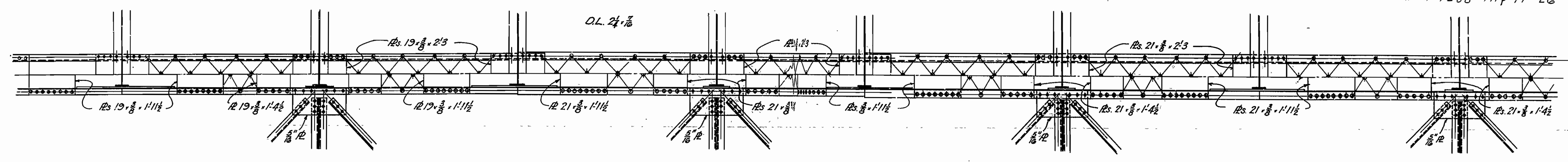


REVISIONS: Wt of 12\"/>

M. G. Sawyer
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

DETAILS DECK TRUSS SPANS
SHEET 4 OF 7
SALINE RIVER BRIDGE
WARREN-WILMAR ROAD
BRADLEY COUNTY
ROUTE 4 SEC. 13
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: EBS - Date: 9-15-41
Traced By: EBS - Date: 10-10-41
Checked By: _____ Date: _____
Scale: $\frac{1}{2}$ " = 1'
BRIDGE NO. 2212 DRAWING NO. 6240-G

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	PAR No. F 201(1)	1944	17	26
		STATE JOB NO. 7288	1944	17	26
		" " " 7288	1944	17	26

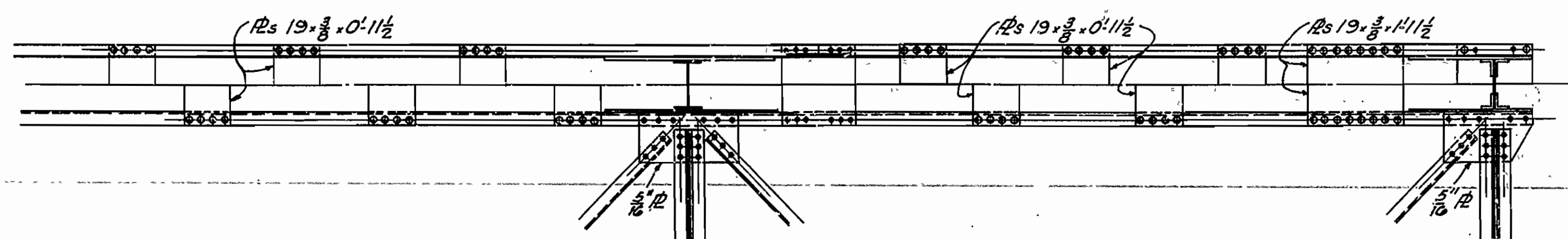
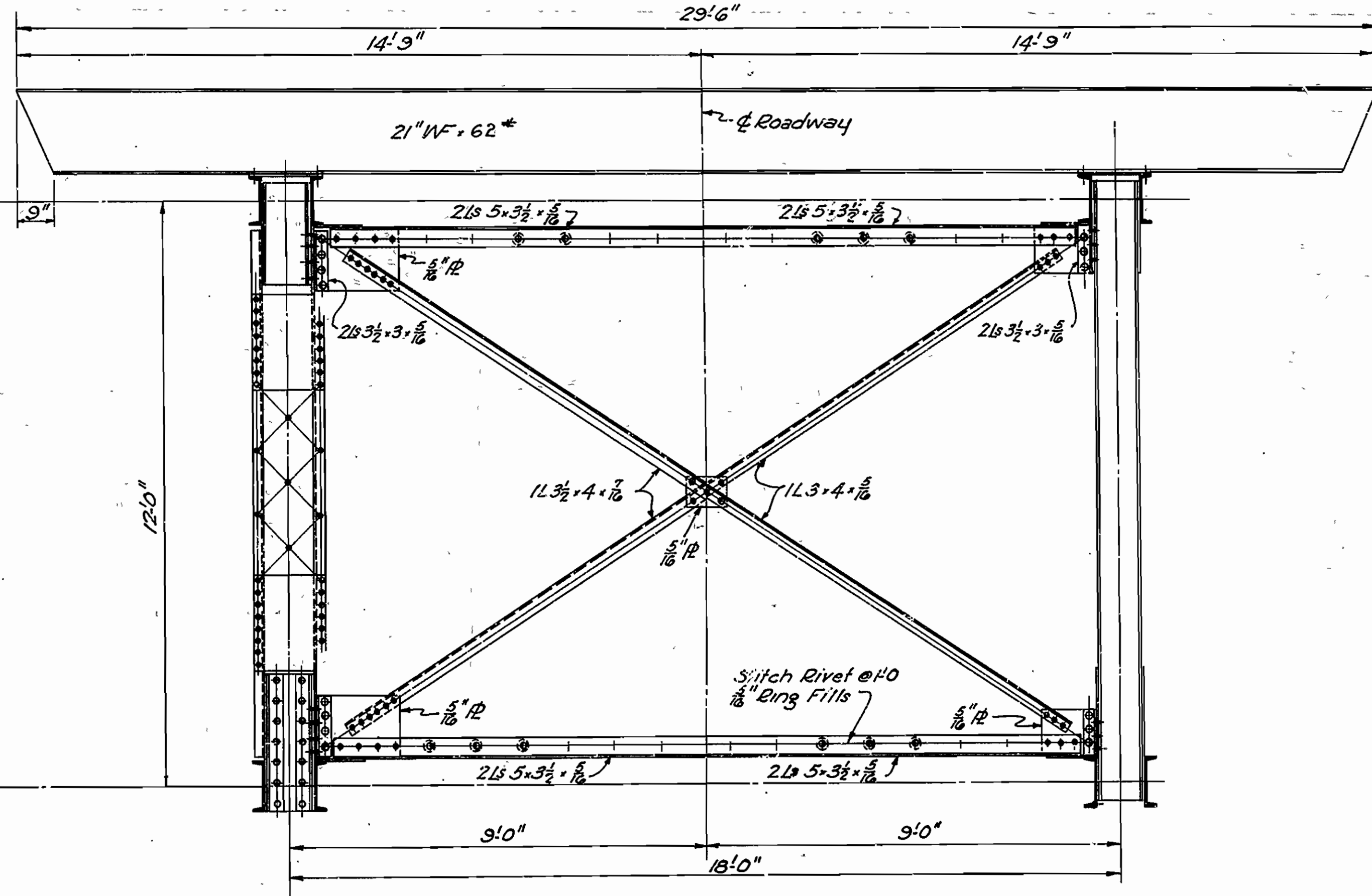
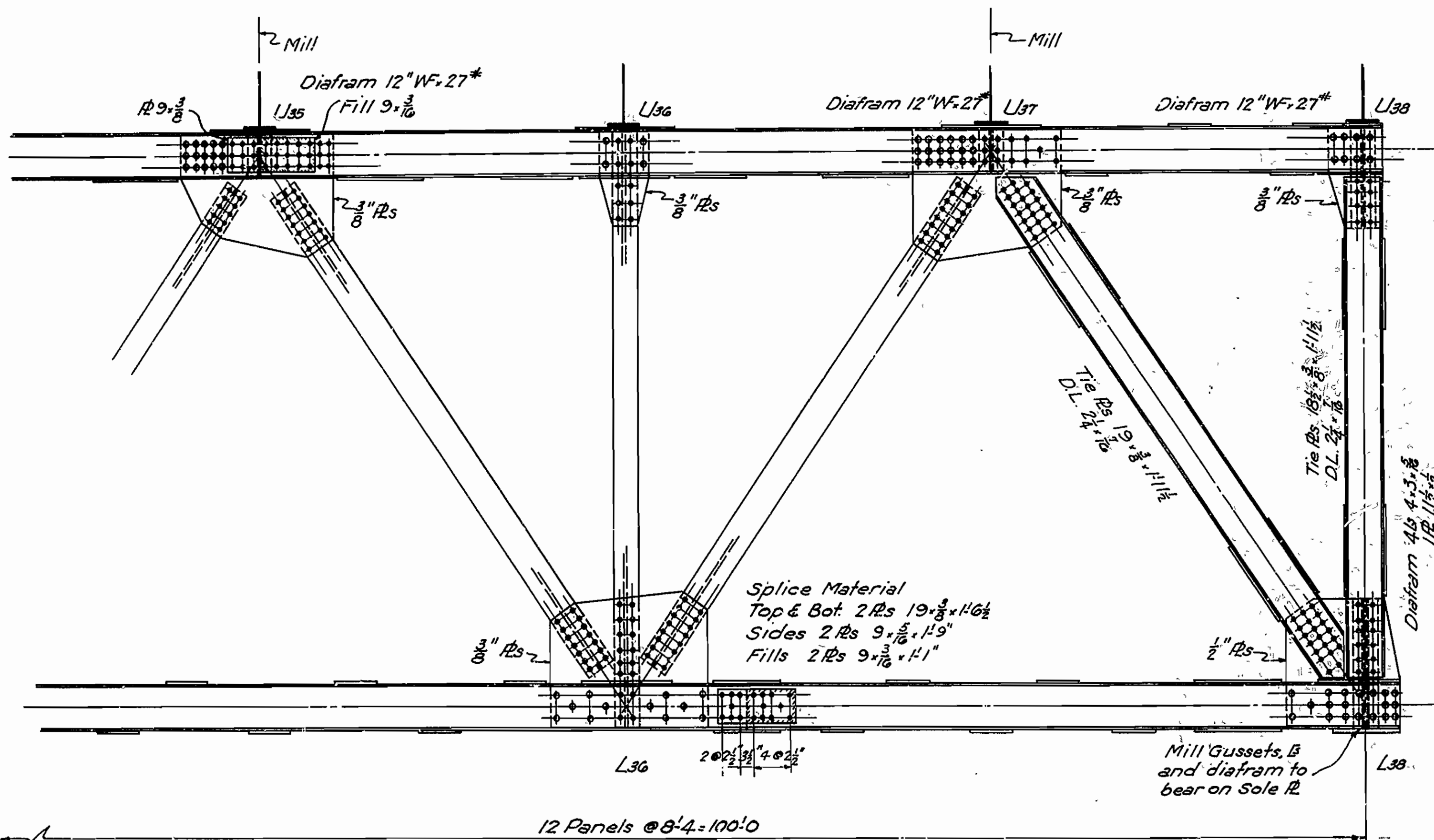
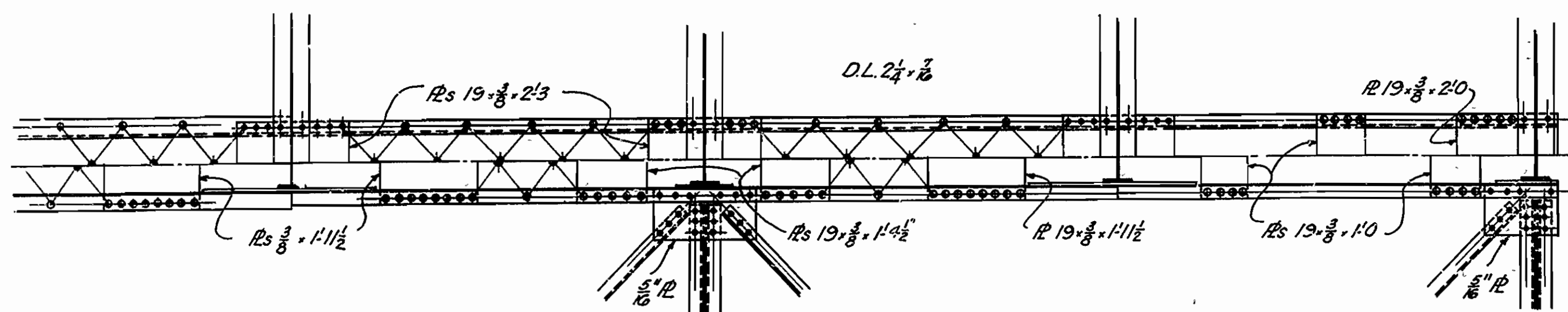


DETAILS DECK TRUSS SPANS
SHEET 5 OF 7
SALINE RIVER BRIDGE
WARREN-WILMAR ROAD
BRADLEY COUNTY
ROUTE 4 SEC. 13
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: *EBS* Date: 9-17-41
Traced By: *EBS* Date: 10-14-41
Checked By: _____ Date: _____
Scale: 1/2" = 1'-0"
BRIDGE NO. 2212 DRAWING NO. 6240-H

REVISIONS: Wt. of 12" WF diaphragms. W.C.H. 10-31-44.
Tie Pls. and splice details. W.C.H. 6-10-47.

M. S. Lawler
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAF No. F46(1)	1945	13	26
STATE JOB NO. 2221		1941	13	13	22
" " " 7288		1945	18	26	



DETAILS DECK TRUSS SPANS
 SHEET 6 OF 7
 SALINE RIVER BRIDGE
 WARREN-WILMAR ROAD
 BRADLEY COUNTY
 ROUTE 4 SEC. 13
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: EBS Date: 9-19-41
 Traced By: EBS Date: 10-24-41
 Checked By: _____ Date: _____
 Scale: 1/2 in. = 1 ft.
 BRIDGE NO. 2212 DRAWING NO. 6240-1

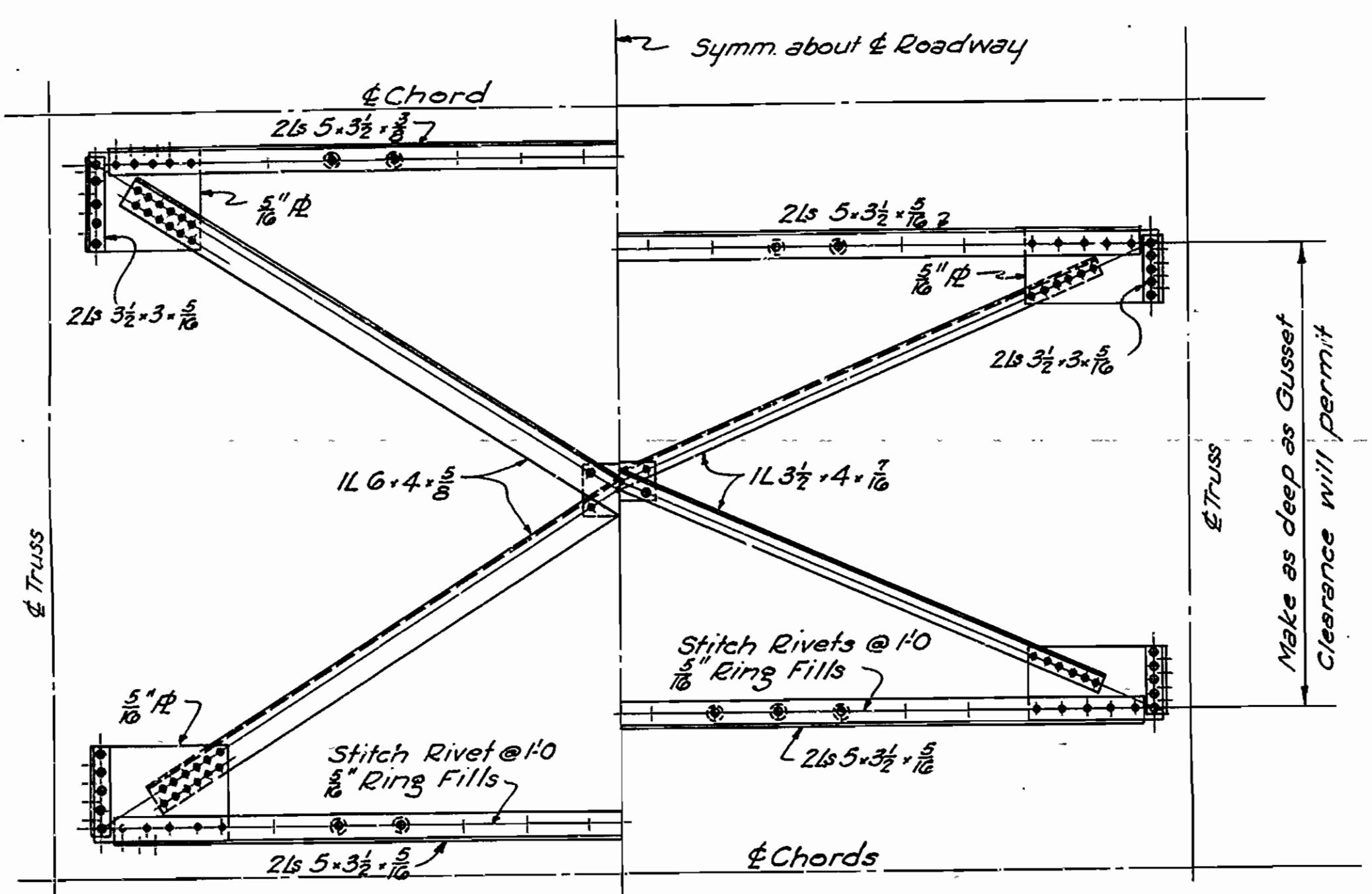
REVISIONS: - Wt. of members. W.C.H. 10-31-46.
 Splice details. W.C.H. 6-10-47

W.B. Lawrence
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

X

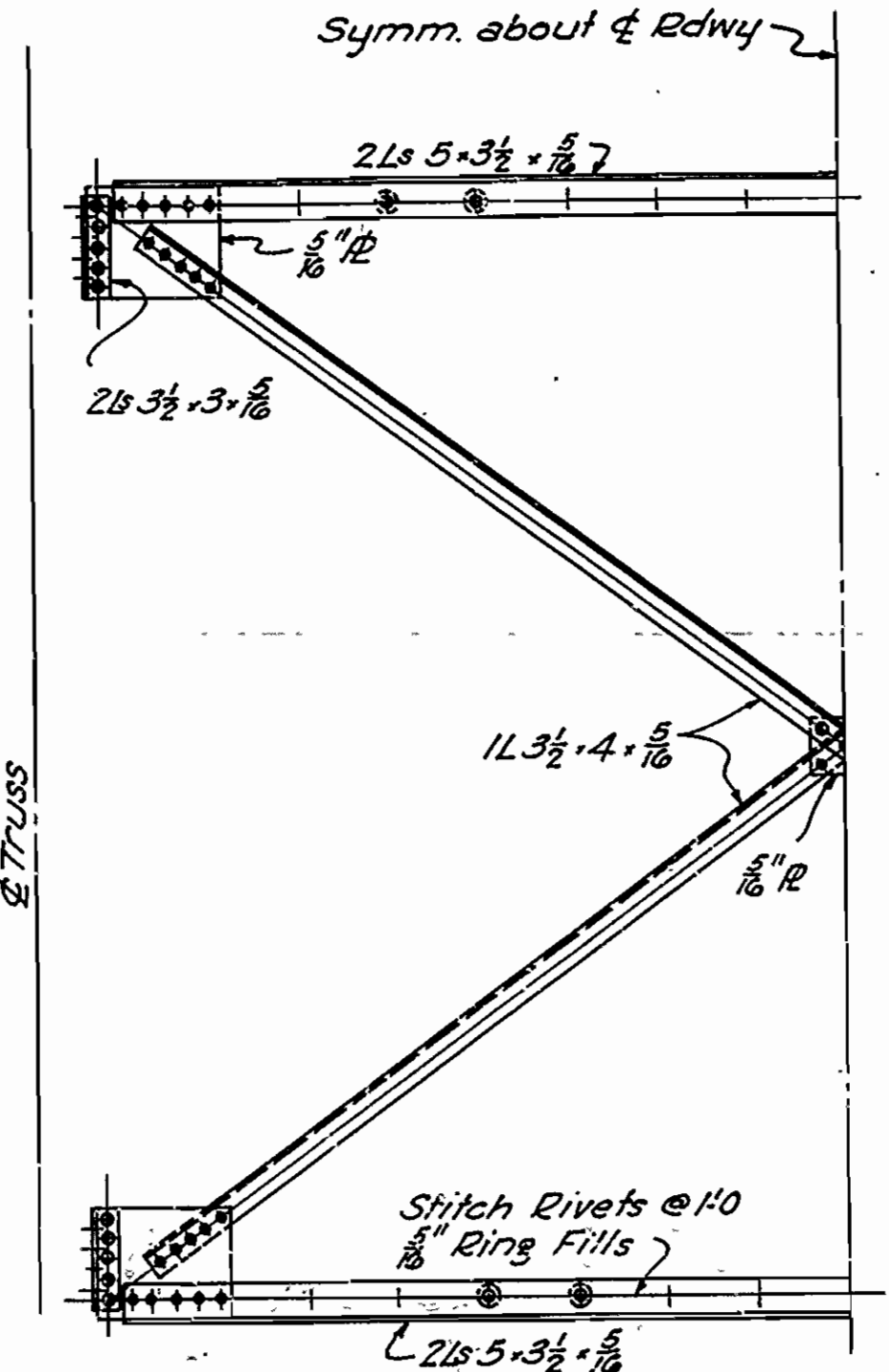
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6	ARK.	EAP No. F.G.C. (1)	1947	19	26
		STATE JOB NO. 2208	1947	16	22
		" " " 7288	1947	19	26

748

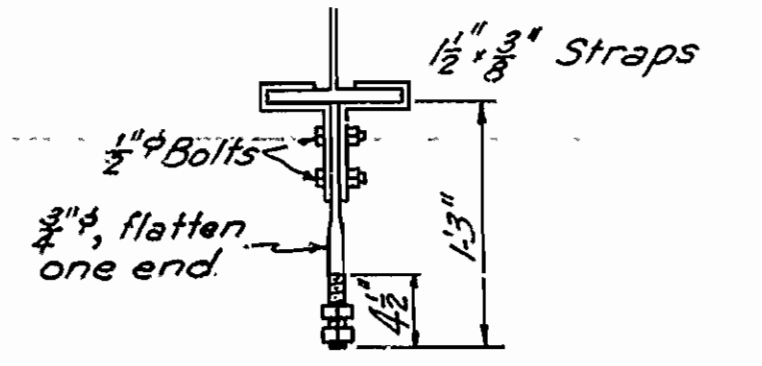


HALF SWAY FRAME
U13-L13, U13-L13 & U26-L26

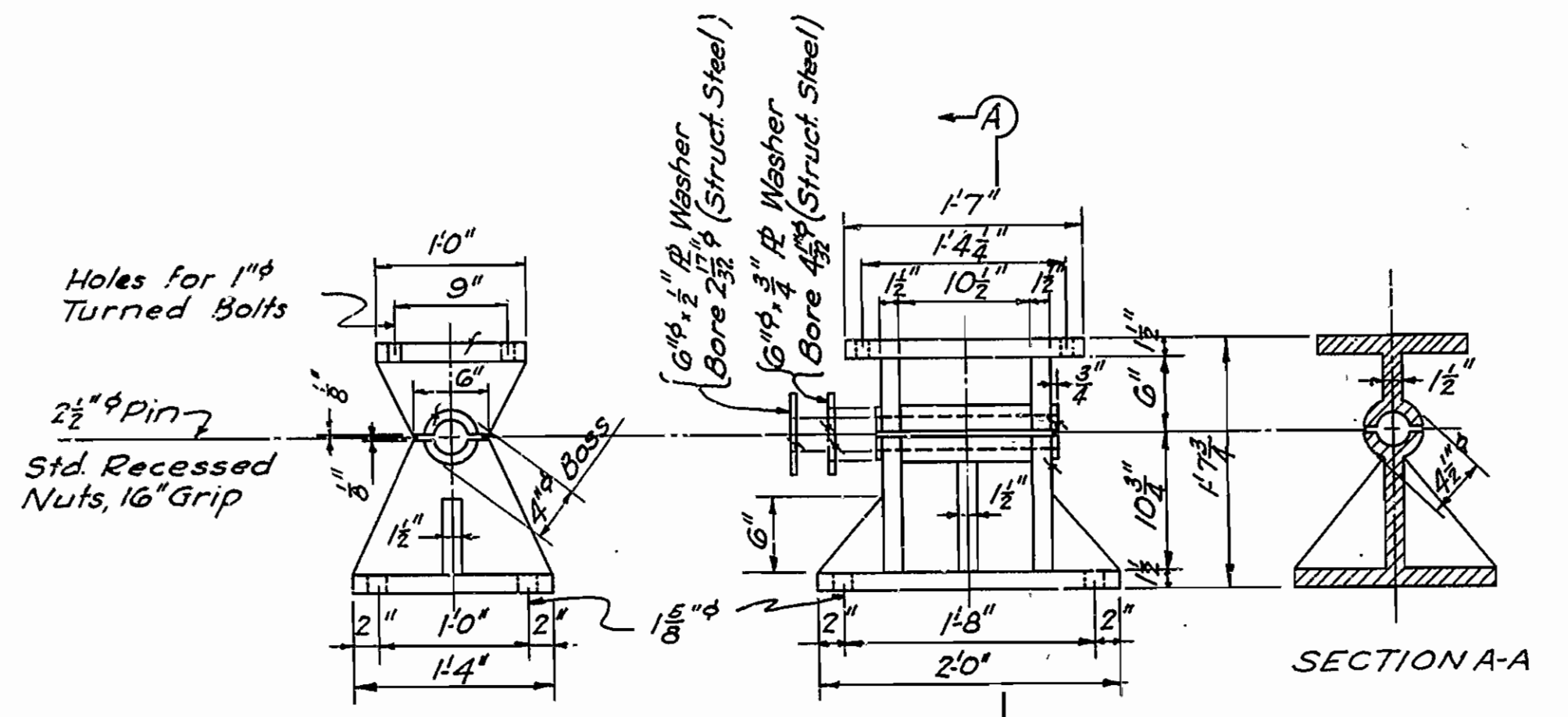
HALF CROSS FRAME
For Hangers U12-L12, U12-L12 & U25-L25



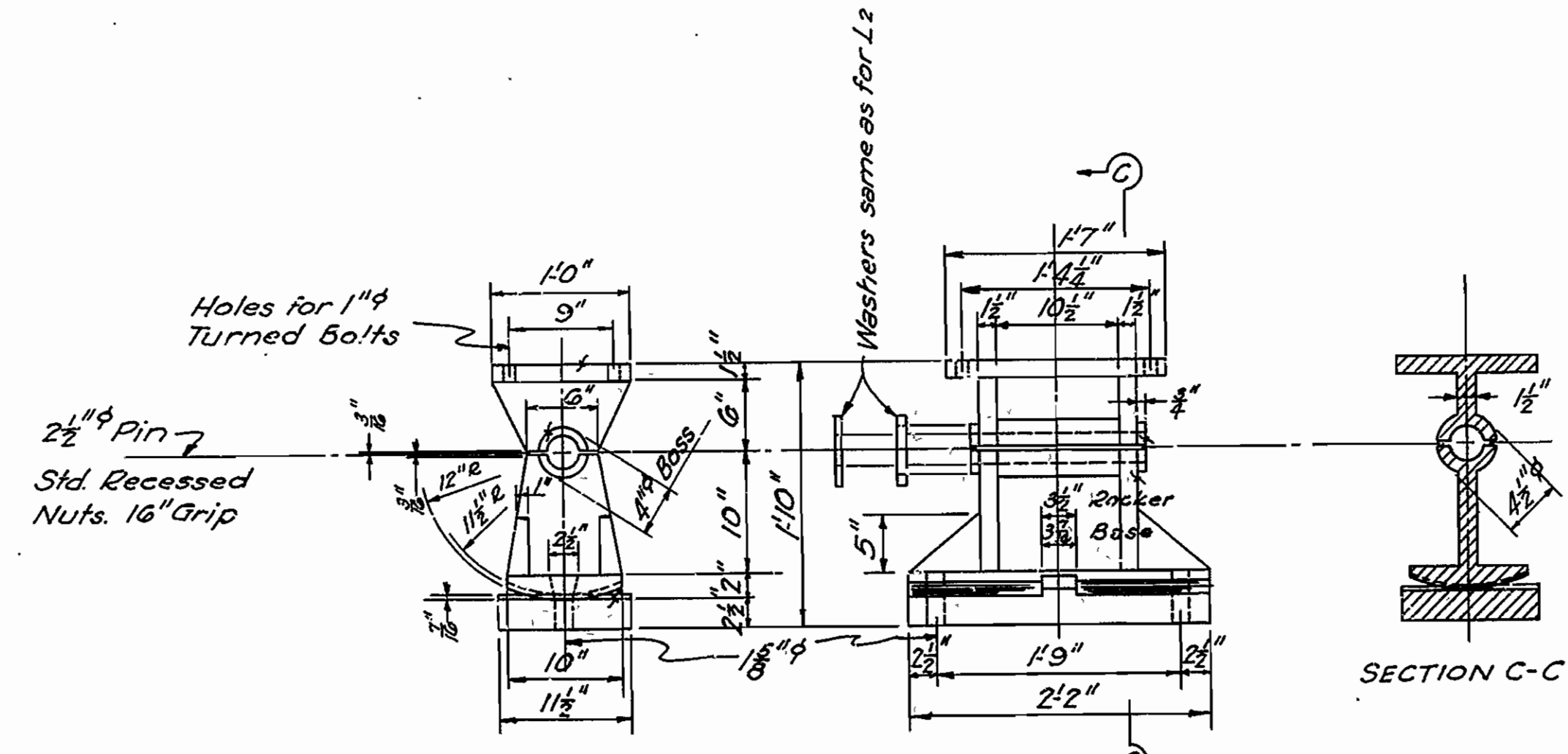
HALF CROSS FRAME
U11-L12, U11-L12 & U24-L25



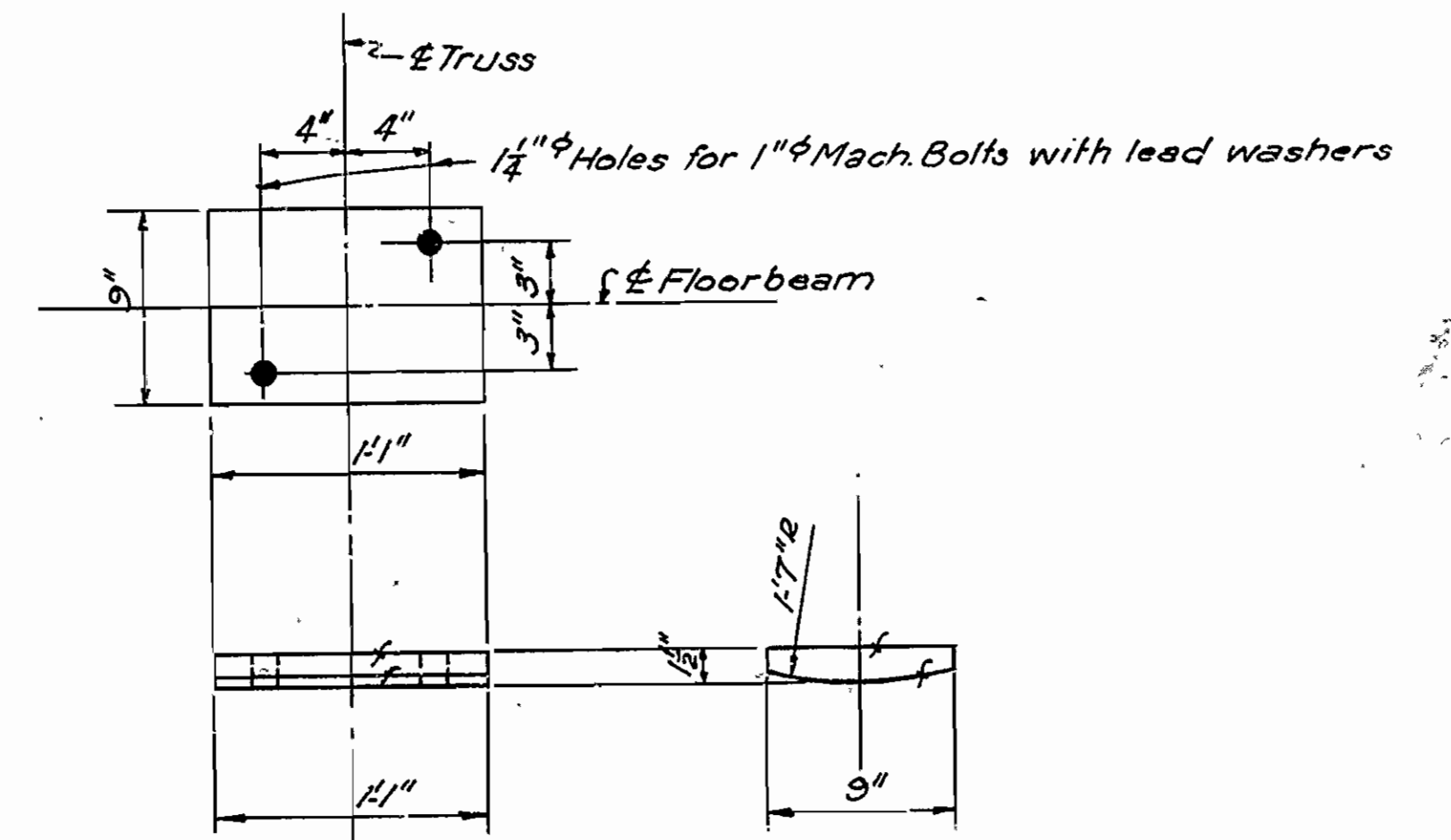
TOP LATERAL HANGER
25 reqd.



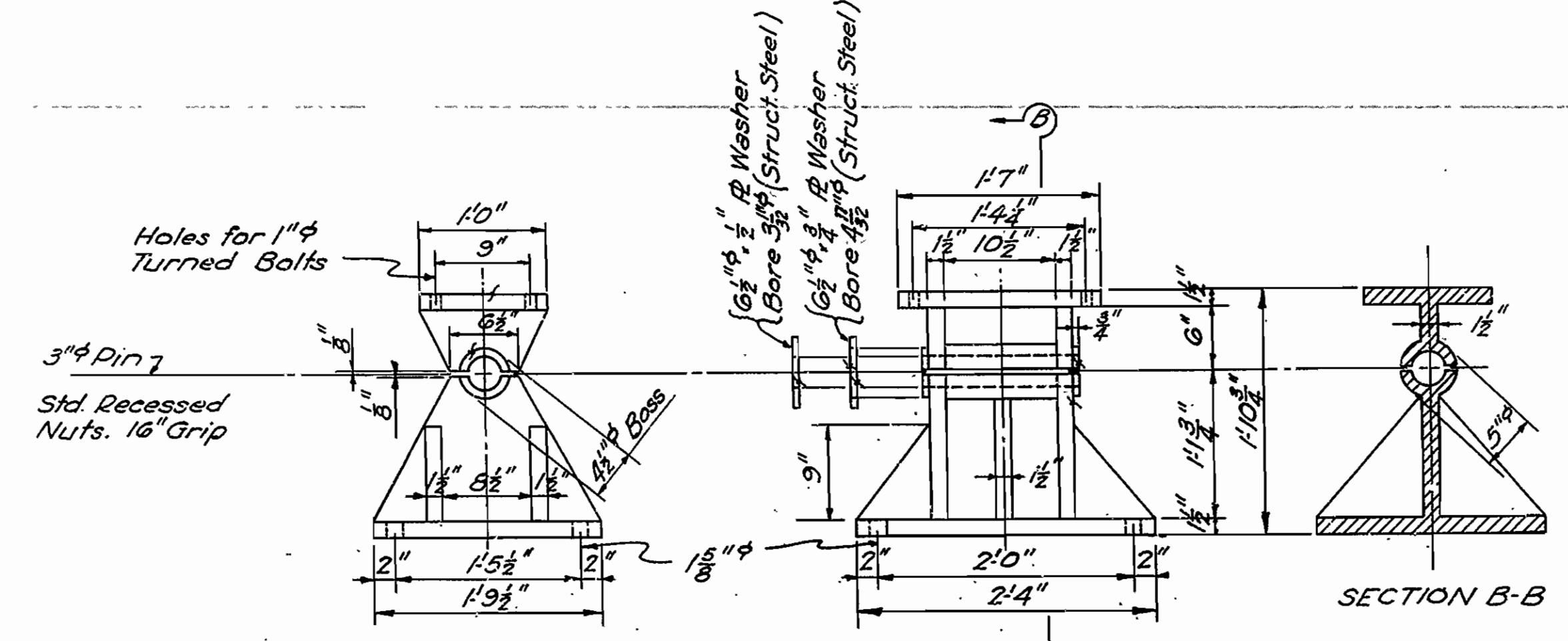
CAST STEEL SHOE FOR L2 & L2
Piers 1 & 7
Scale: 1" = 10"



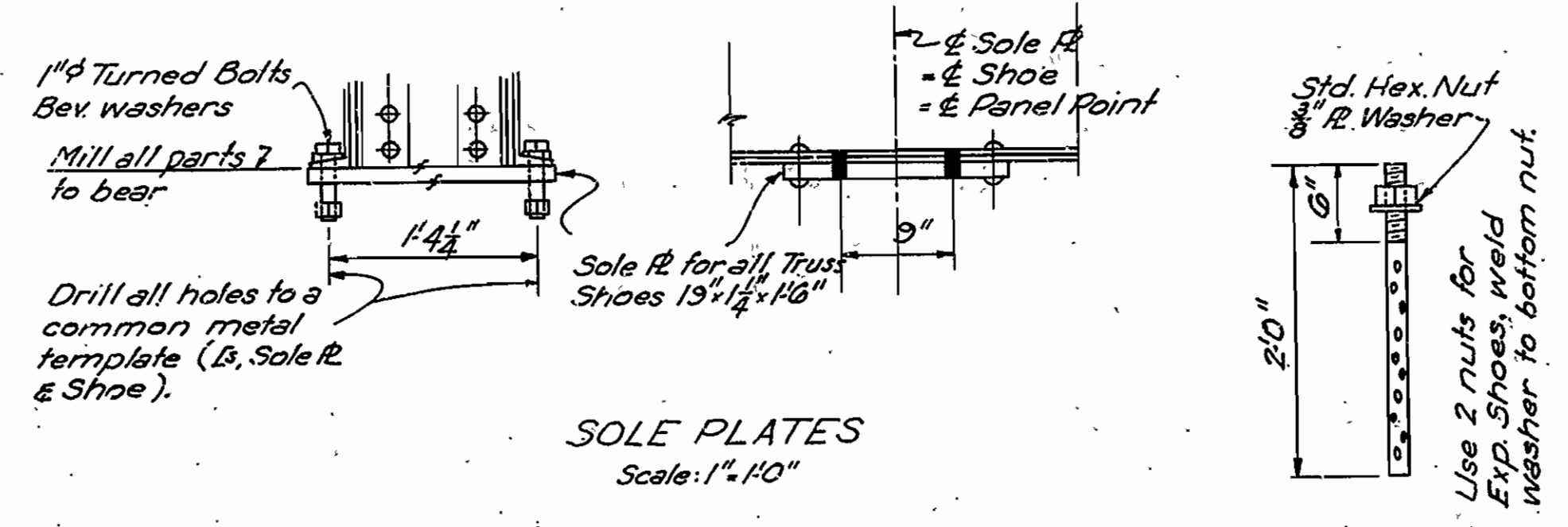
CAST STEEL SHOES FOR L25 & L26
Piers 3 & 4
Scale: 1" = 10"



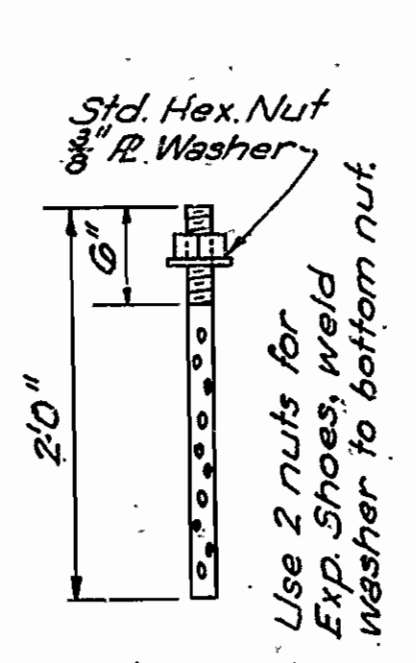
TOP PLATE
STRUCTURAL STEEL SHOES
For U1 & U1
NOTE: See Drawing No. 6240-D for bottom plate.



CAST STEEL SHOE FOR L13, L13 & L26
Piers 2, 5 & 6
Scale: 1" = 10"



SOLE PLATES
Scale: 1" = 10"



1 1/2 ANCHOR BOLT

REVISIONS: - Shoes for U1 & U1; W.C.H. 3-28-47.

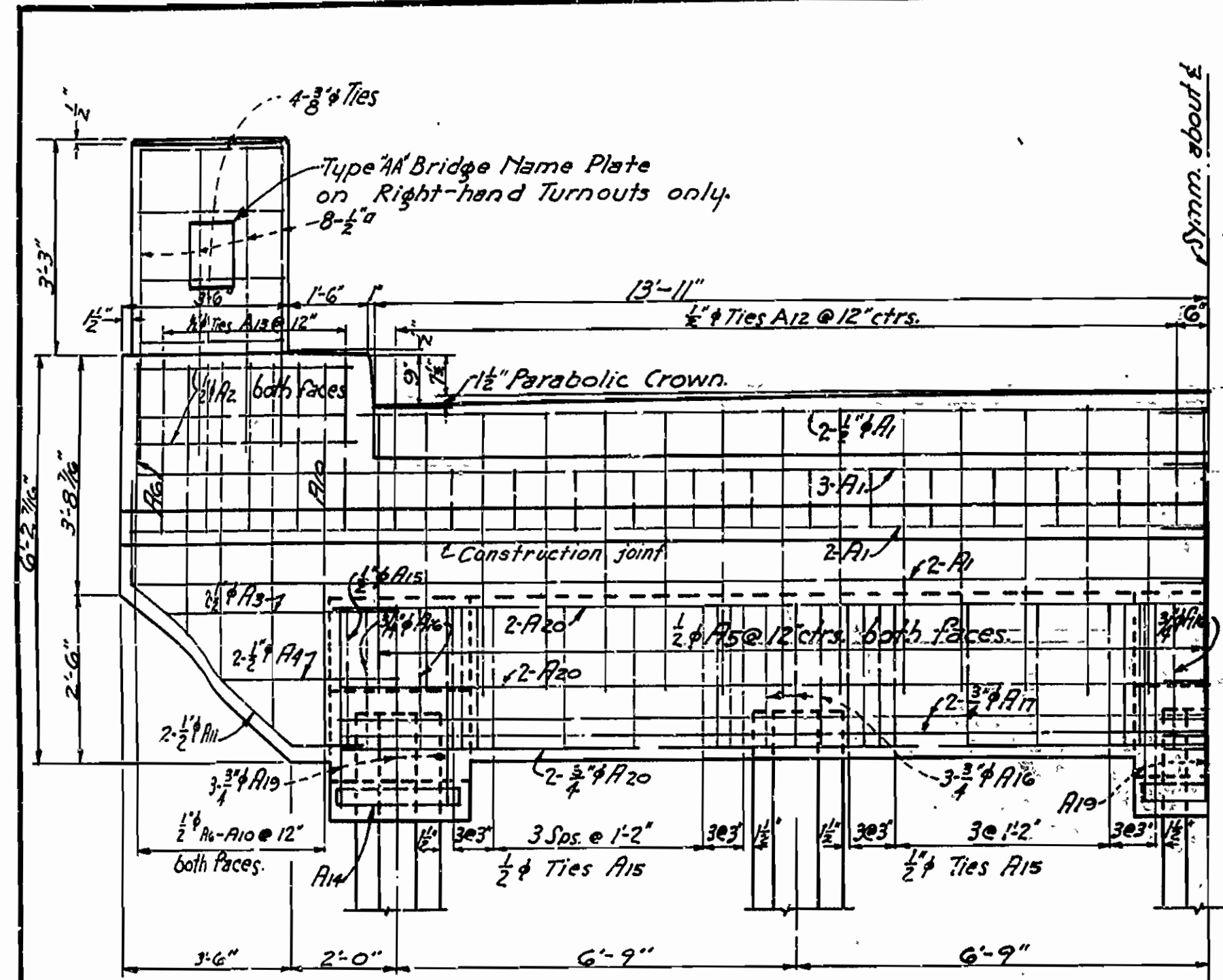
DETAILS DECK TRUSS SPANS
SHEET 7 OF 7
SALINE RIVER BRIDGE
WARREN-WILMAR ROAD
BRADLEY COUNTY

ROUTE 4 SEC. 13
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

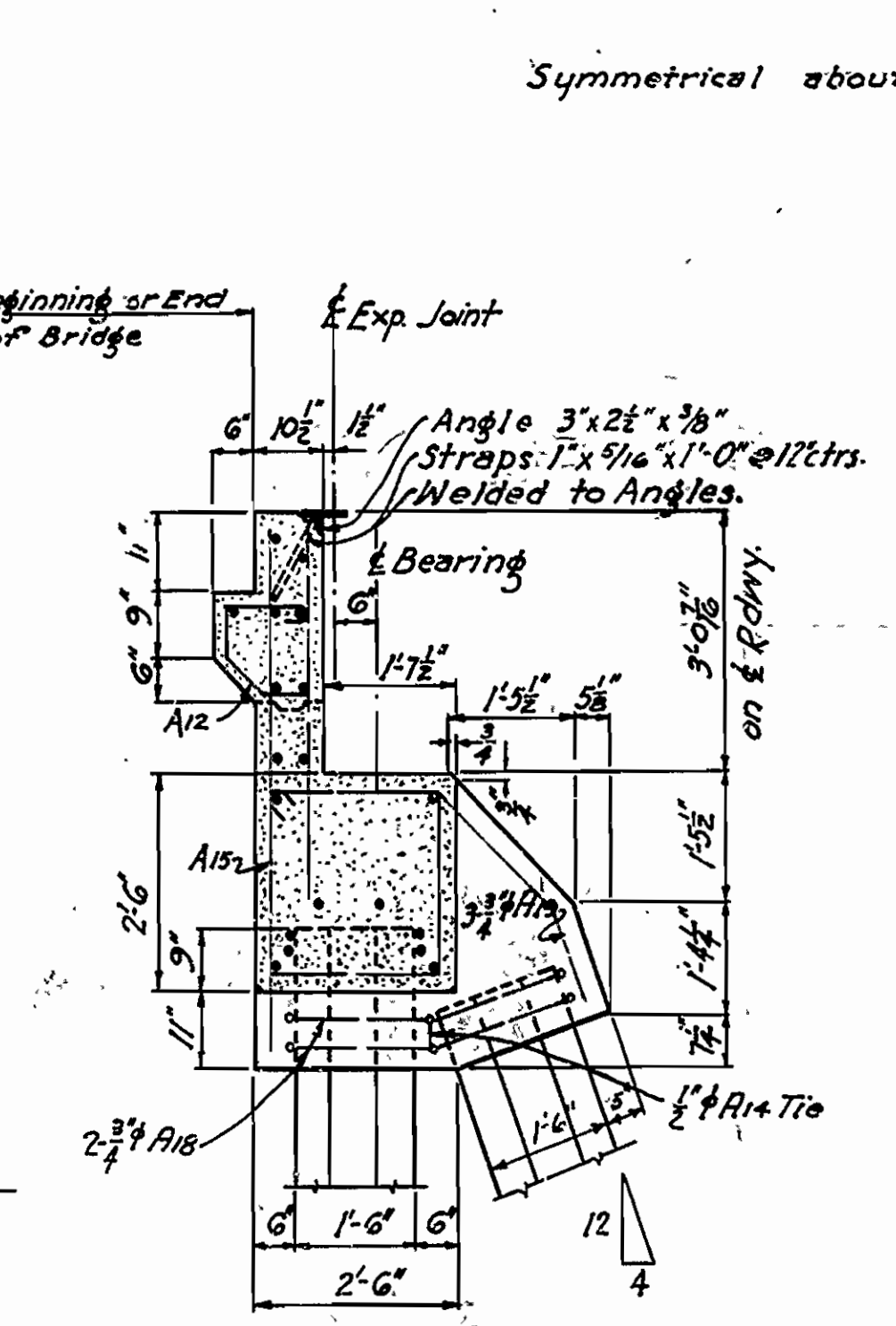
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Traced By: EBS Date: 10-16-41
Checked By: Date:
BRIDGE NO. 2212 DRAWING NO. 6240-J

M.B. Weaver
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

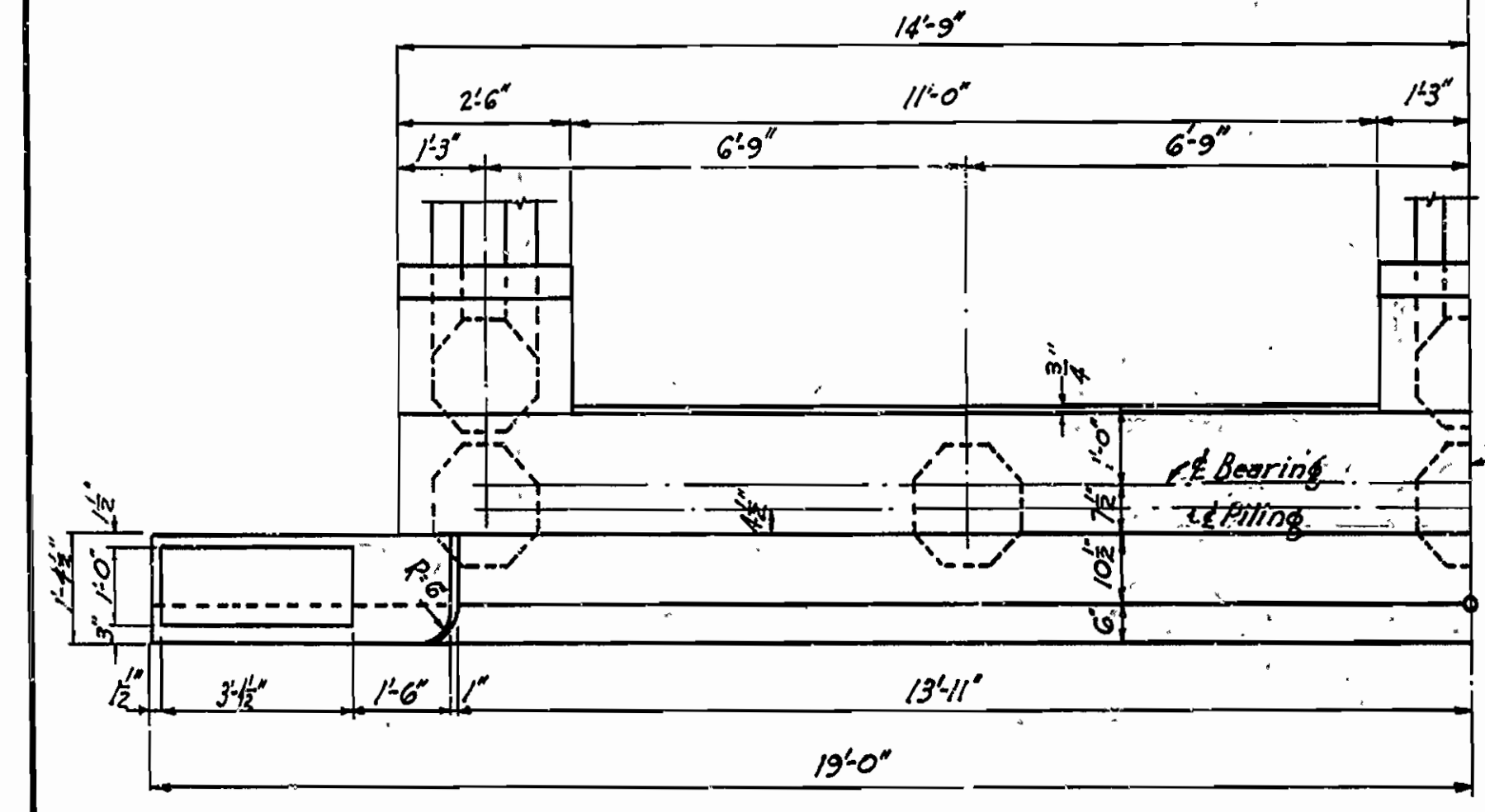
STATE	ARK.	F.A.P. PROJECT NO.	1944	SHEET NO.	7	TOTAL SHEETS	26
STATE JOB NO.	7287	DATE	1944	BY	WJ	CHECKED	WJ
"	"	"	7288	"	"	"	"
"	"	"	1949	"	"	"	"



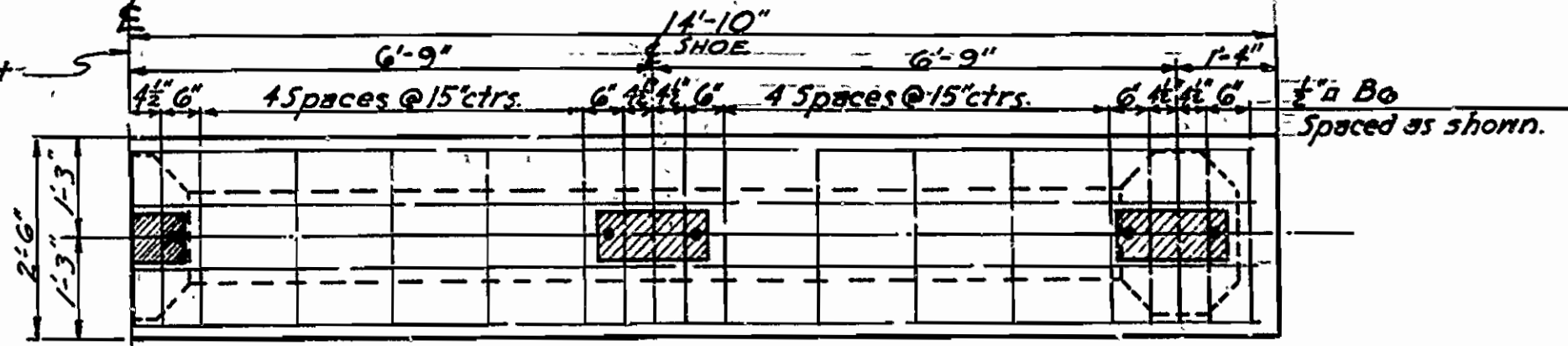
HALF REAR ELEVATION OF END BENT



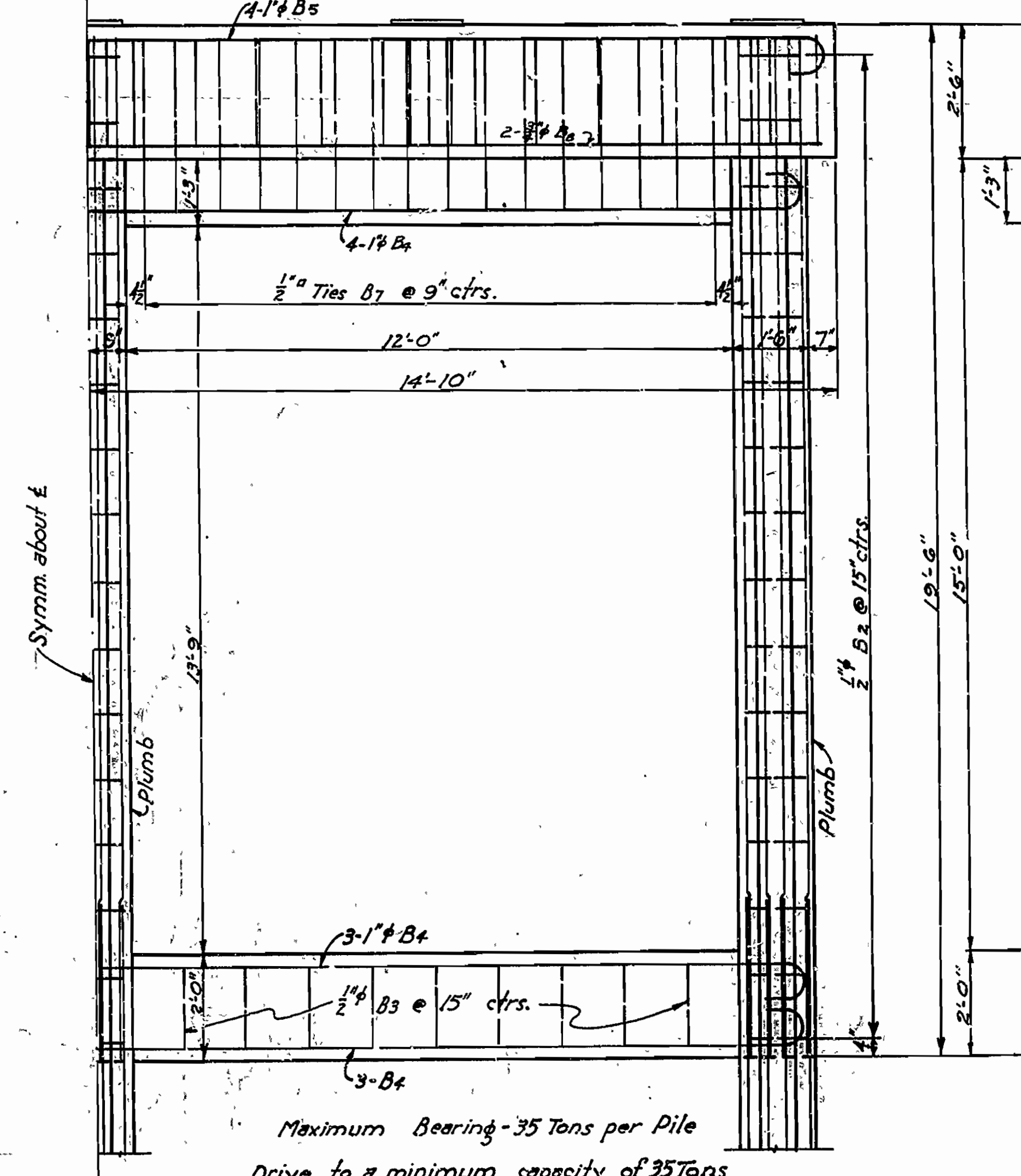
SECTION THRU END BENT



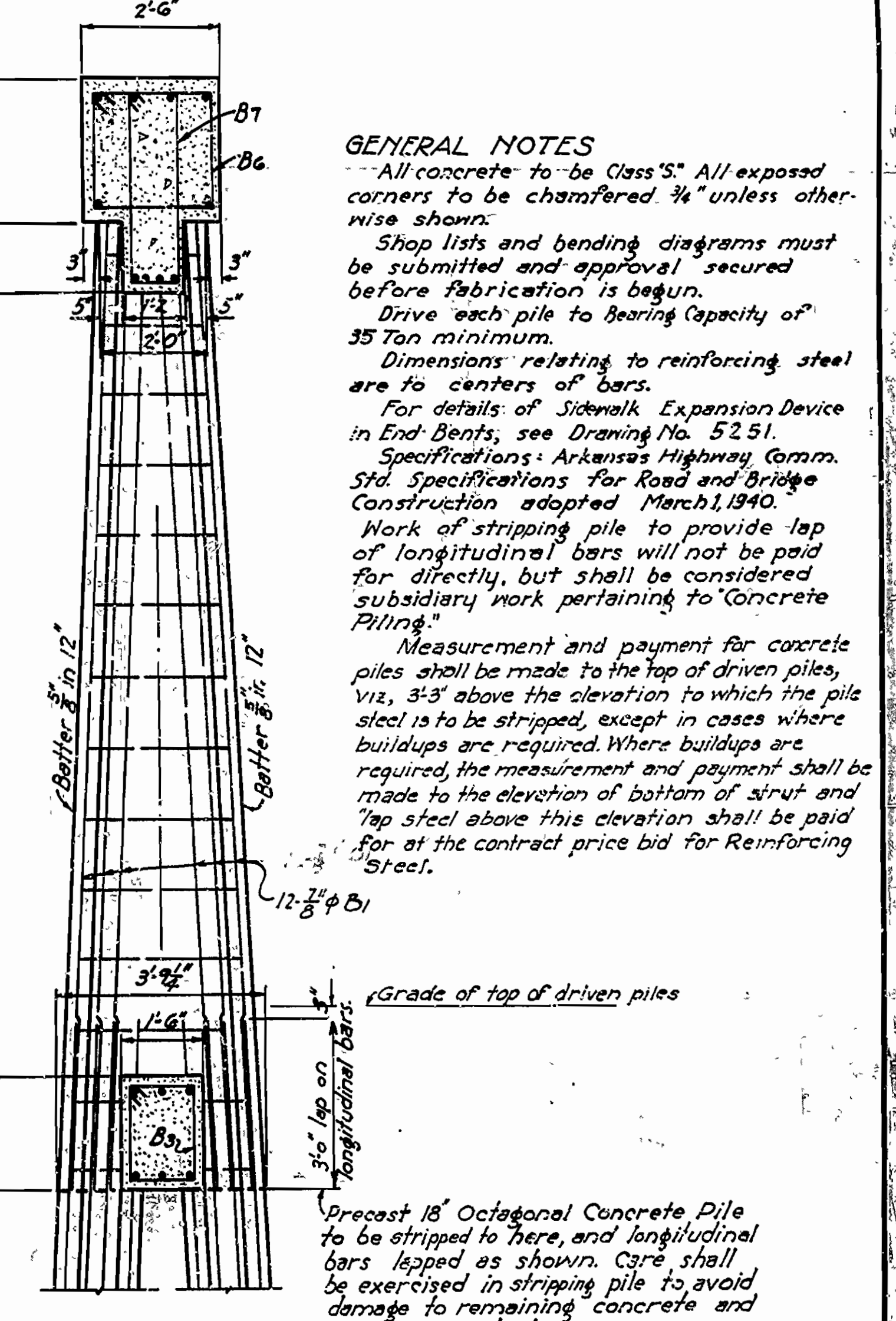
HALF PLAN OF END BENT



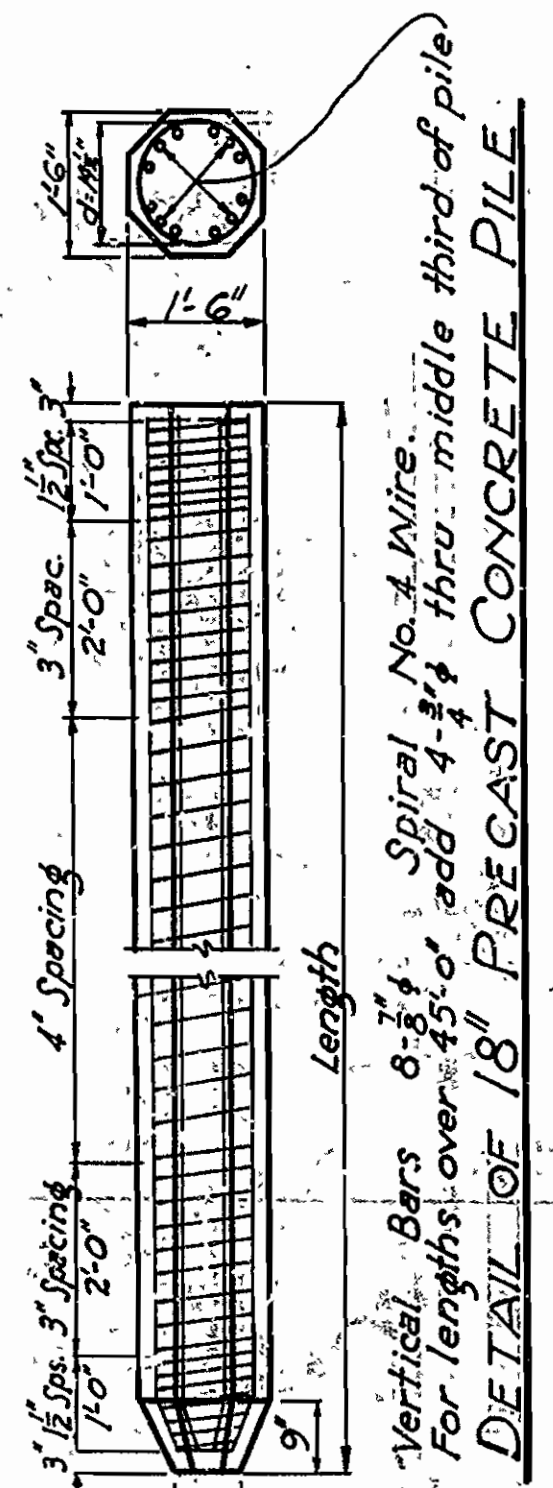
HALF PLAN OF BENT CAP



HALF ELEVATION OF INTERMEDIATE BENT



SECTION THRU BENT



DETAIL OF 18" PRECAST CONCRETE PILE

GENERAL NOTES
 All concrete to be Class "S". All exposed corners to be chamfered 3/4" unless otherwise shown.
 Shop lists and bending diagrams must be submitted and approval secured before fabrication is begun.
 Drive each pile to bearing capacity of 35 Ton minimum.
 Dimensions relating to reinforcing steel are to centers of bars.
 For details of Sidewalk Expansion Device in End Bents, see Drawing No. 5251.
 Specifications: Arkansas Highway Comm. Std. Specifications for Road and Bridge Construction adopted March 1, 1940.
 Work of stripping pile to provide lap of longitudinal bars will not be paid for directly, but shall be considered subsidiary work pertaining to "Concrete Piling."
 Measurement and payment for concrete piles shall be made to the top of driven piles, viz: 3'-3" above the elevation to which the pile steel is to be stripped, except in cases where buildups are required. Where buildups are required, the measurement and payment shall be made to the elevation of bottom of strut and lap steel above this elevation shall be paid for at the contract price bid for Reinforcing Steel.
 Precast 18" Octagonal Concrete Pile to be stripped to here, and longitudinal bars lapped as shown. Care shall be exercised in stripping pile to avoid damage to remaining concrete and reinforcing steel.

END BENT BENT BAR LIST

MARK	SIZE	LENGTH	A	B	BENDING
A11	1/2"	7'-0"			
A12	1/2"	3'-2"	0'-6"		
A13	1/2"	4'-8"	2'-0"		
A14	1/2"	5'-9"	2'-1"	5"	
A15	1/2"	9'-1"	2'-1"	2'-1"	
A16	3/4"	6'-3"	2'-1"	2'-1"	
A17	3/4"	33'-7"	16'-0"	1'-7"	
A18	3/4"	11'-11"			
A19	3/4"	8'-2"			

INTERMEDIATE BENT BAR LIST

MARK	SIZE	LENGTH	A	B	BENDING
B1	3/4"	19'-3"			Straight
B2	1 1/2"	Varies 0'-3" to 10'-0"	Varies 0'-10" to 2'-0"		Varies 1/2"
B3	1 1/2"	6'-3"	1'-11"	1'-7"	
B4	1 1/2"	9'-0"	28'-0"	0'-8"	
B5	1 1/2"	3'-2"	29'-2"	0'-8"	
B6	1 1/2"	9'-3"			
B7	1 1/2"	9'-1"	0'-9 1/2"	3'-1/2"	
B8	3/4"	29'-2"			Straight

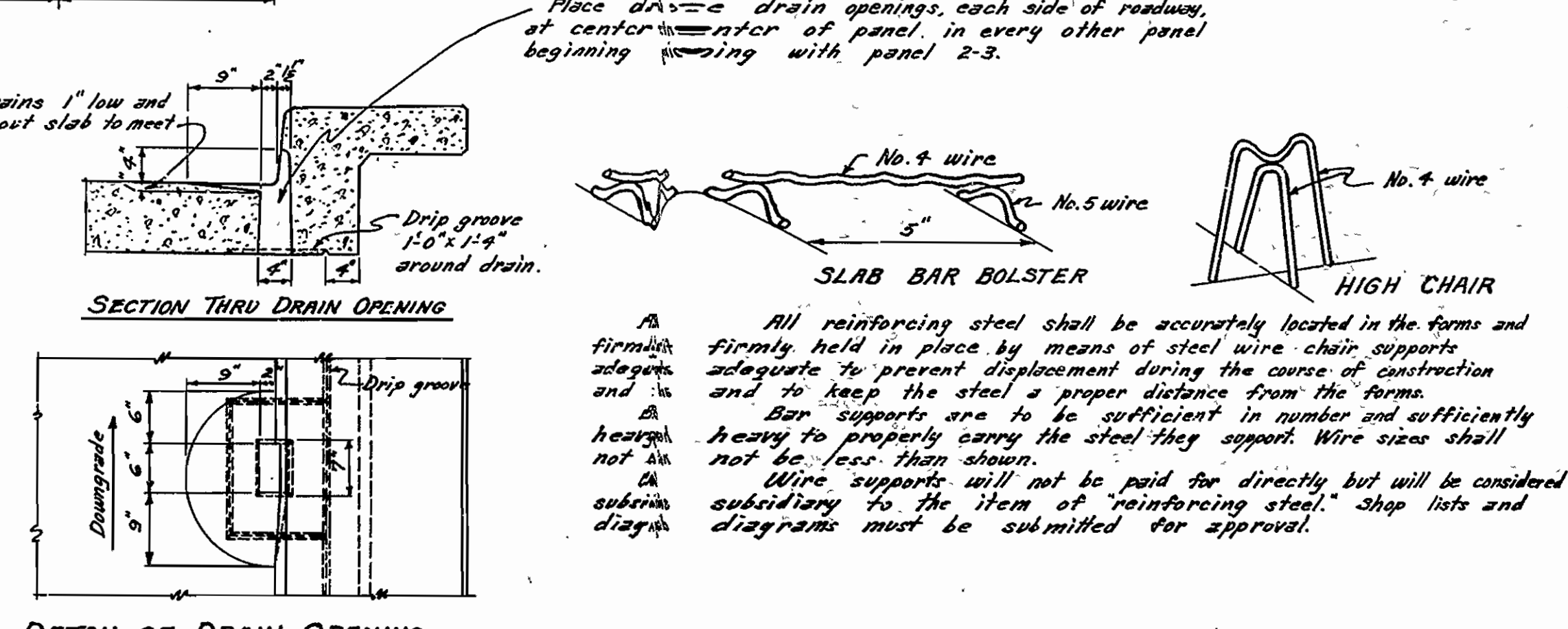
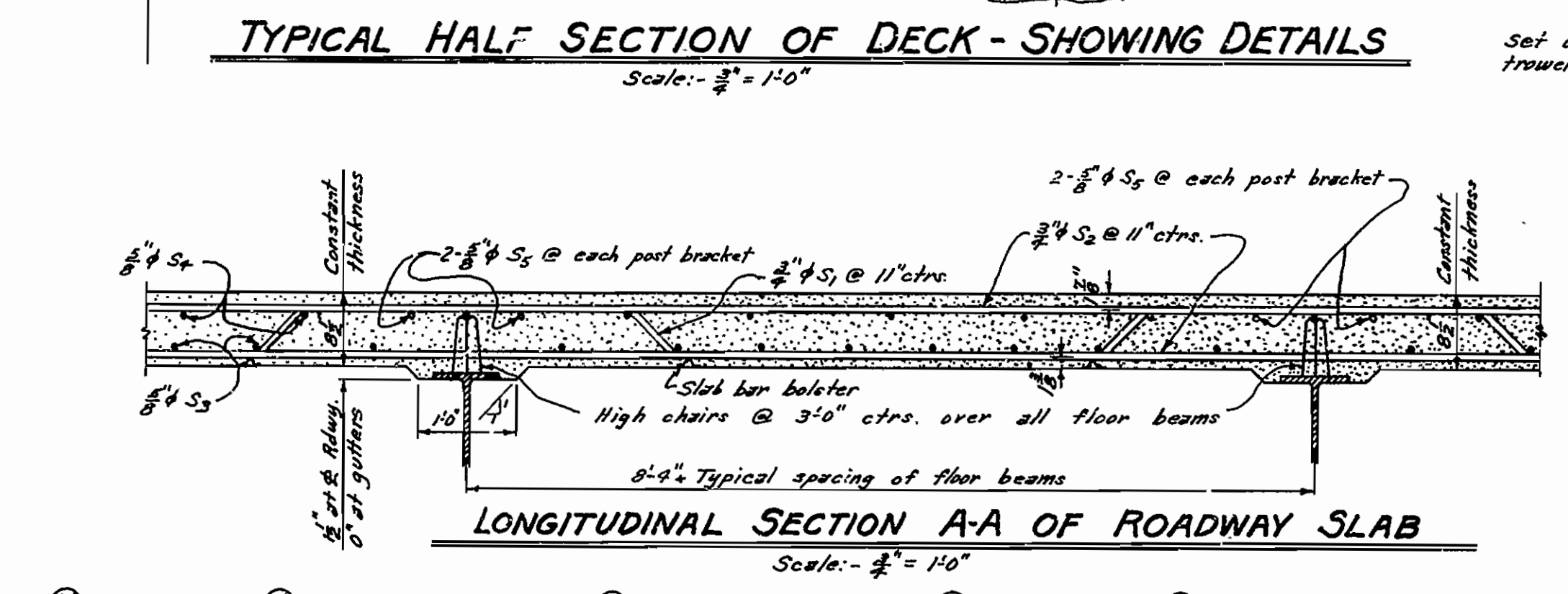
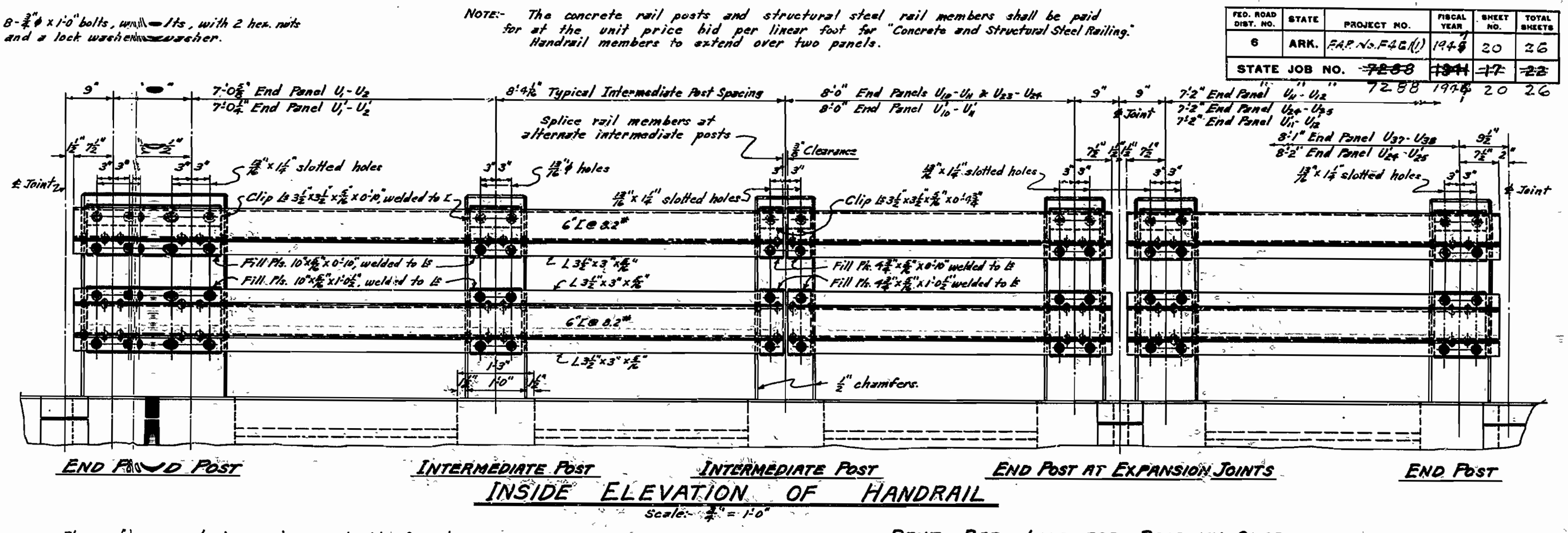
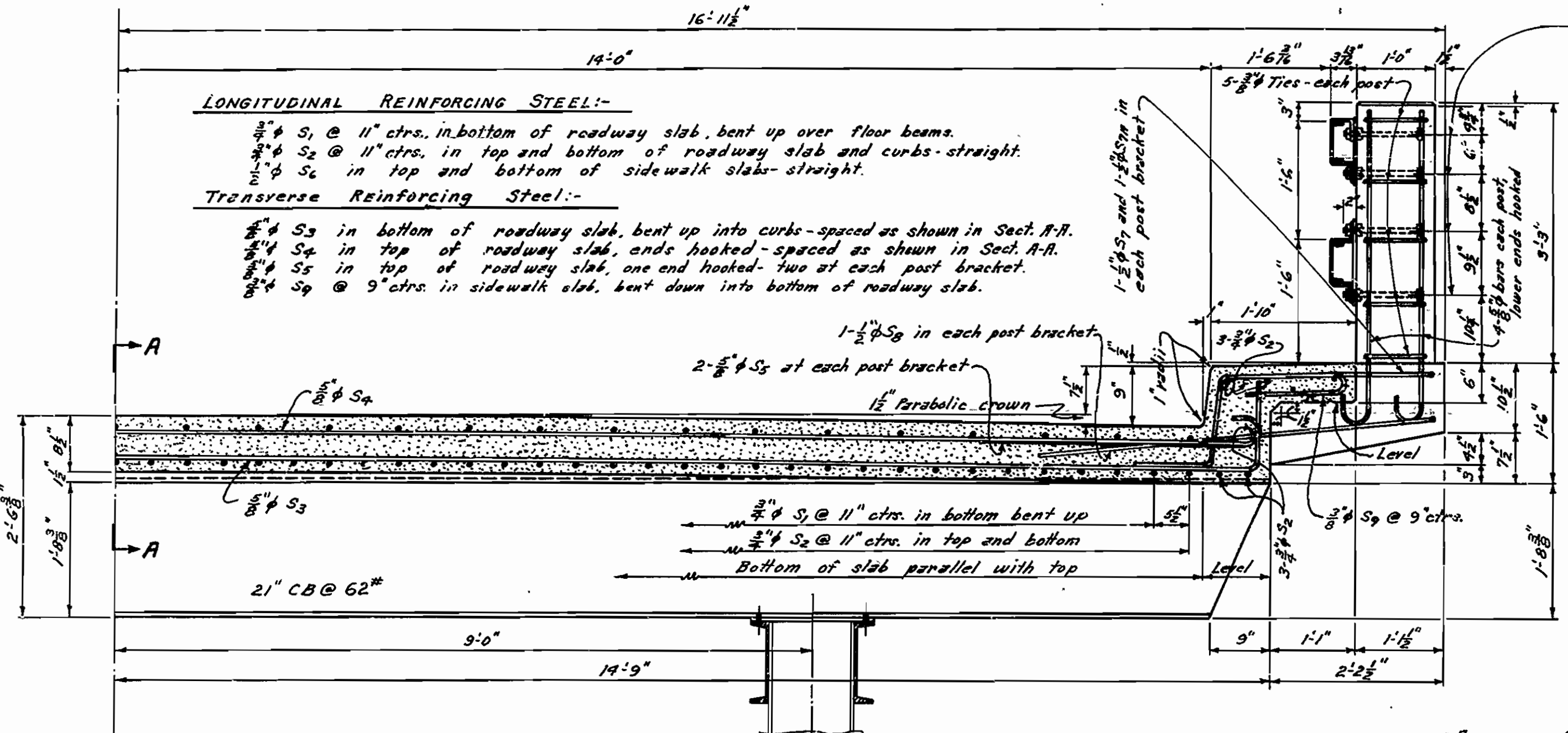
Revised: Conc. Pile Note-11-5-41-HB.

DETAILS OF BENTS 1 TO 25 INCL.
BRIDGE OVER SALINE RIVER
BRADLEY COUNTY
 ROUTE 4 SEC. 13

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: WJ 8-22-41
 TRACED BY: WJ 8-25-41
 SCALE: 1/2" = 1'-0"
BRIDGE NO. 2212 DRAWING NO. G237

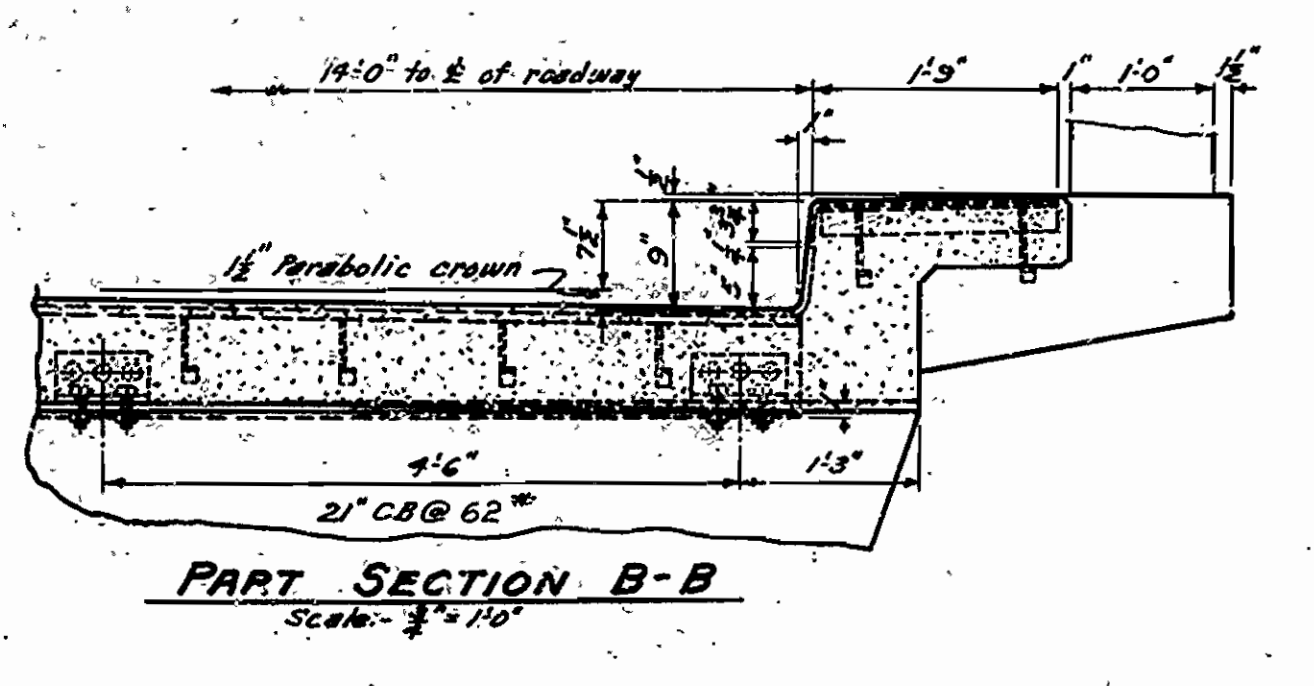
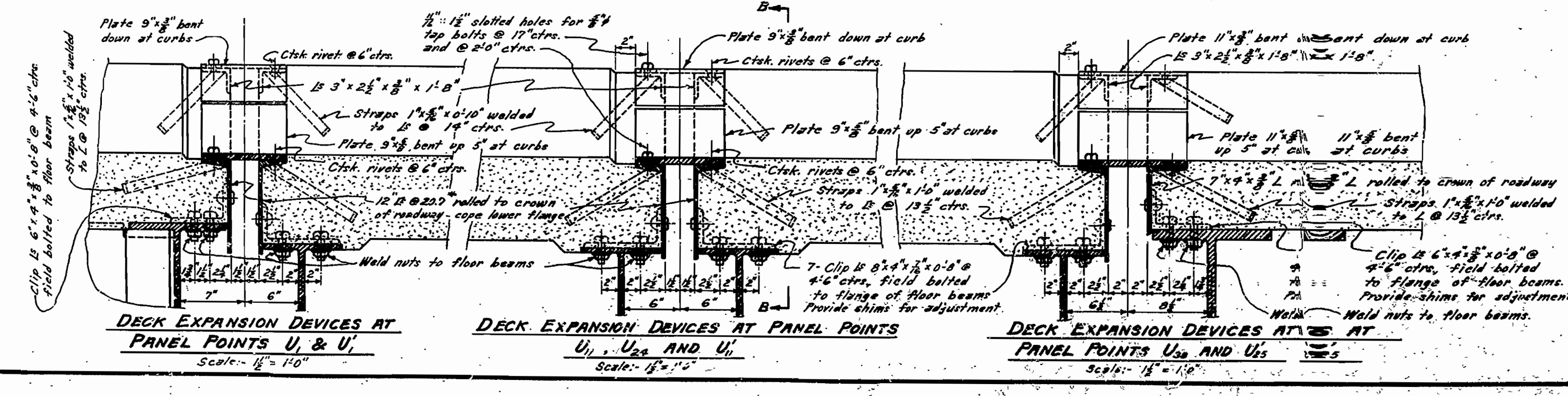
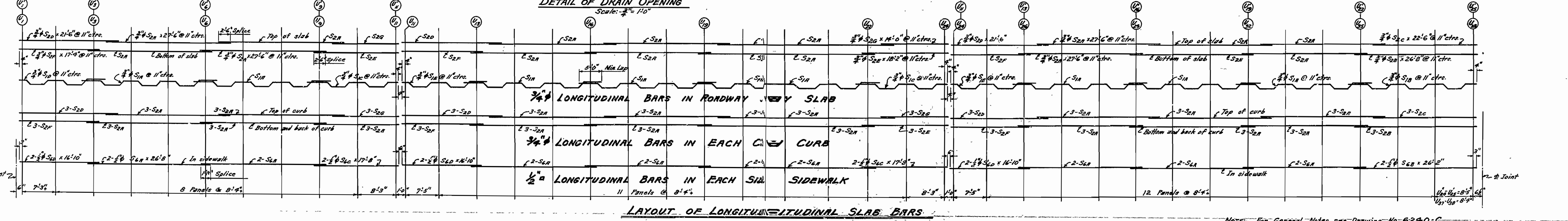
Principal Highway Engineer (B7184)



BENT BAR LIST FOR ROADWAY SLAB

MARK	SIZE	LENGTH	BENDING DIAGRAM													
			A	a	b	c	d	e	f	g	h	i	j	k	l	m
S1A	3/4"	31'-0"	30'-0"	4'-1/2"	0'-2 1/2"	4'-2 1/2"	0'-2 1/2"	3'-3"	0'-5 1/2"	4'-2 1/2"	0'-5 1/2"	3'-3"	0'-5 1/2"	4'-2 1/2"	0'-5 1/2"	4'-1 1/2"
S1B	3/4"	28'-11"	27'-11"	4'-1 1/2"	"	"	"	"	"	"	"	3'-3"	0'-5 1/2"	4'-2 1/2"	0'-5 1/2"	2'-0 1/2"
S1C	3/4"	20'-11"	19'-5"	4'-1 1/2"	"	"	"	"	"	"	"	"	"	"	1'-10 1/2"	
S1D	3/4"	19'-11"	18'-5"	0'-10 1/2"	"	"	"	"	"	"	"	"	"	"	4'-1 1/2"	
S1E	3/4"	19'-3"	18'-7"	1'-0 1/2"	0'-2 1/2"	4'-2 1/2"	0'-5 1/2"	3'-3"	0'-5 1/2"	4'-2 1/2"	0'-5 1/2"	4'-1 1/2"				
S2	3/4"	31'-6"														
S2A	3/4"	50'-2"														
S2B	3/4"	4'-0"														
S3	3/4"	10'-7"	0'-11"													
S3A	3/4"	10'-3"	0'-7"													
S3B	3/4"	10'-11"														
S3C	3/4"	4'-1"														

Note: - See bar layout below for size and lengths of straight bars.
Note: - Dimensions relating to reinforcing steel are to center of bars.



TYPICAL DECK SECTIONS & HANDRAIL DETAILS FOR DECK CANTILEVER TRUSS SPANS BRIDGE OVER SALINE RIVER WARREN-WILMAR ROAD BRADLEY COUNTY ROUTE 4 SEC. 13

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: W.C.H. Date: 9-2-41
Traced By: W.C.H. Date: 10-21-41
Checked By: _____ Date: _____

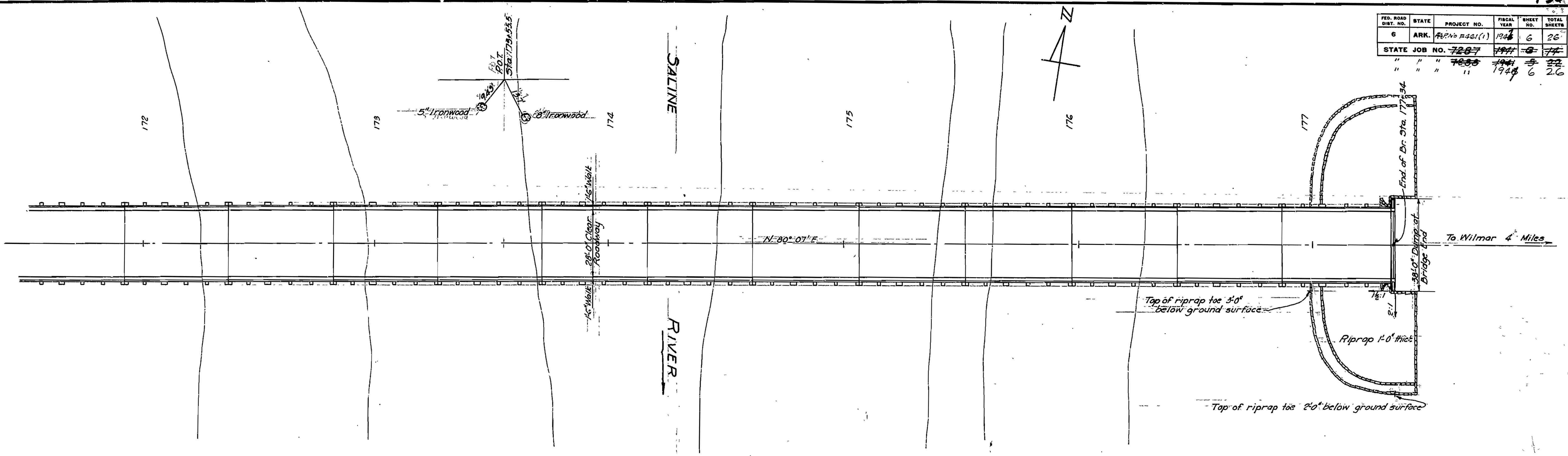
Scale: _____
in. = ft.
As shown.

BRIDGE NO. 2212 DRAWING NO. 6240-K

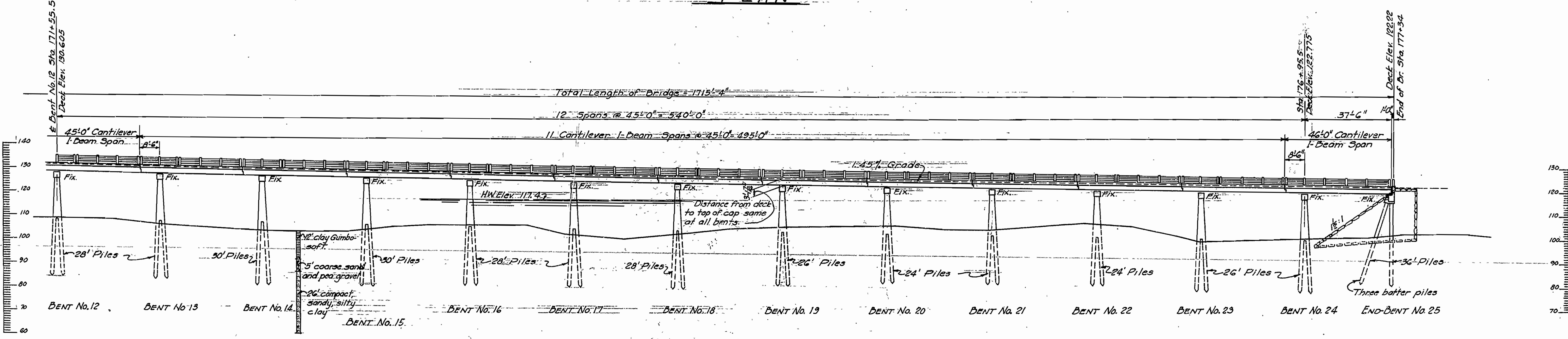
W.C.H. Davis
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

REVISIONS: - Bars S4, S7, S2a, S2b and post dowels, 12-13-45. W.C.H.
Wt. of floor beams, M.C.H. 10-31-46.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	ARK 210 446(1)	1946	6	26
STATE JOB NO. 7207					
" " " 7208					
" " " 1946					
" " " 1946					



PLAN



ELEVATION

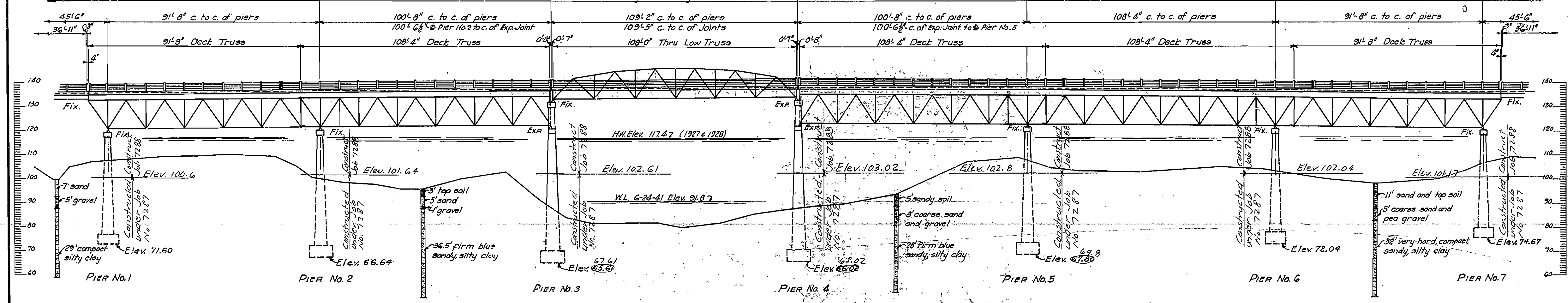
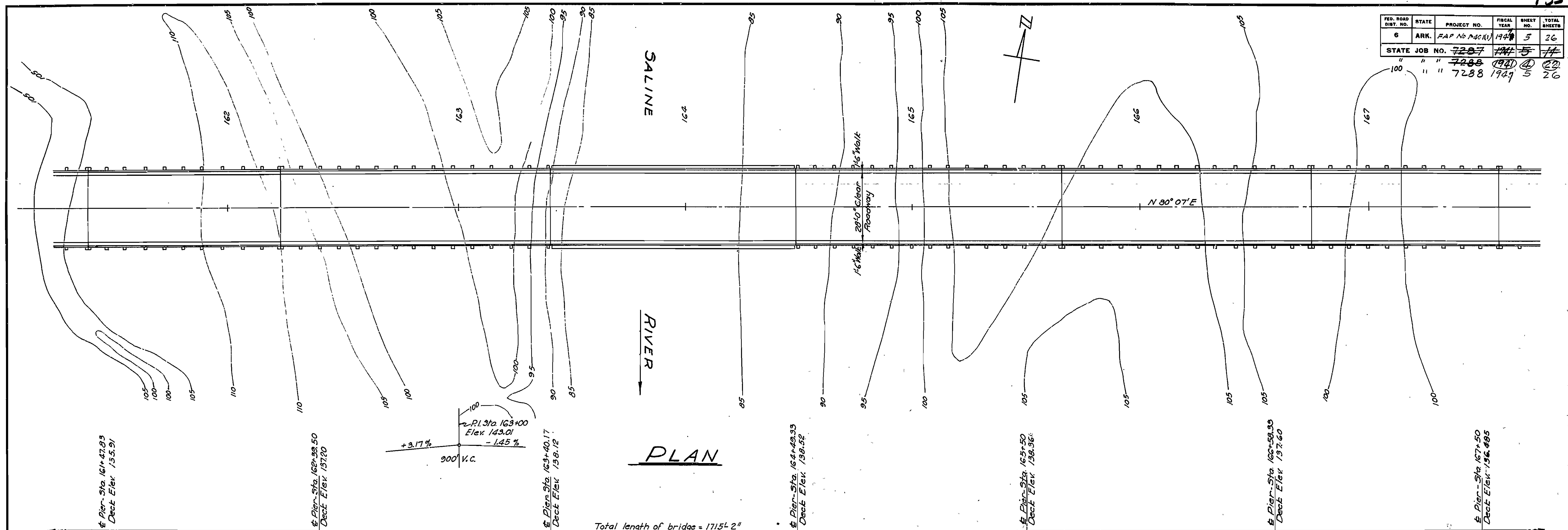
General Notes:
 For remainder of layout, see Dwg. Nos. 6234 & 6235
 All piling to be 18" octagonal precast concrete.
 Lengths of piling shown include amount necessary to permit stripping back for 3/4" lap on longitudinal bars, and are assumed for estimating quantities only. Actual lengths to be determined in the field.
 Drive one pile each in Bents Nos. 15 & 23 as test pile. Cost 35 Ft. long.
 Riprap at bridge end to be placed by Road Contractor - Job No 1186
 For Details of I-Beam Spans and Pile Bents, See Dwg. Nos. 5231, 5251A & 6237
 For Special Details at End Bents, see Dwg. No. 6232.

B.M. Elev. 110.78
 Nail in coat of 16" Holly
 40' R. of Sta. 162+00.

SHEET NO. 3
LAYOUT OF APPROACHES
BRIDGE OVER SALINE RIVER
 BRADLEY COUNTY
 ROUTE 24 SEC. 13
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: H.D. Date: 7-22-41
 Traced By: H.D. Date: 7-20-41
 Checked By: Date:
 Scale: 1" = 20'
 BRIDGE NO. 2212 DRAWING NO. 6236

H.D. Davis
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	5AP No 242(N)	1947	5	26
STATE JOB NO. 7287					
" " " 7288 (24) 4 22					
" " " 7288 1949 5 26					



Note: For General Notes, see Dwg. No. 6234
For remainder of layout, see Dwg. Nos. 6234 & 6236

MAXIMUM FOUNDATION PRESSURES

PIER NO.	DL + LL	DL + LL + WL
1 & 7	4.0	4.5
2, 5 & 6	4.0	5.0
3 & 4	2.6	3.5

Revised: work completed under Job No. 7287 indicated, H.R. 12-17-45

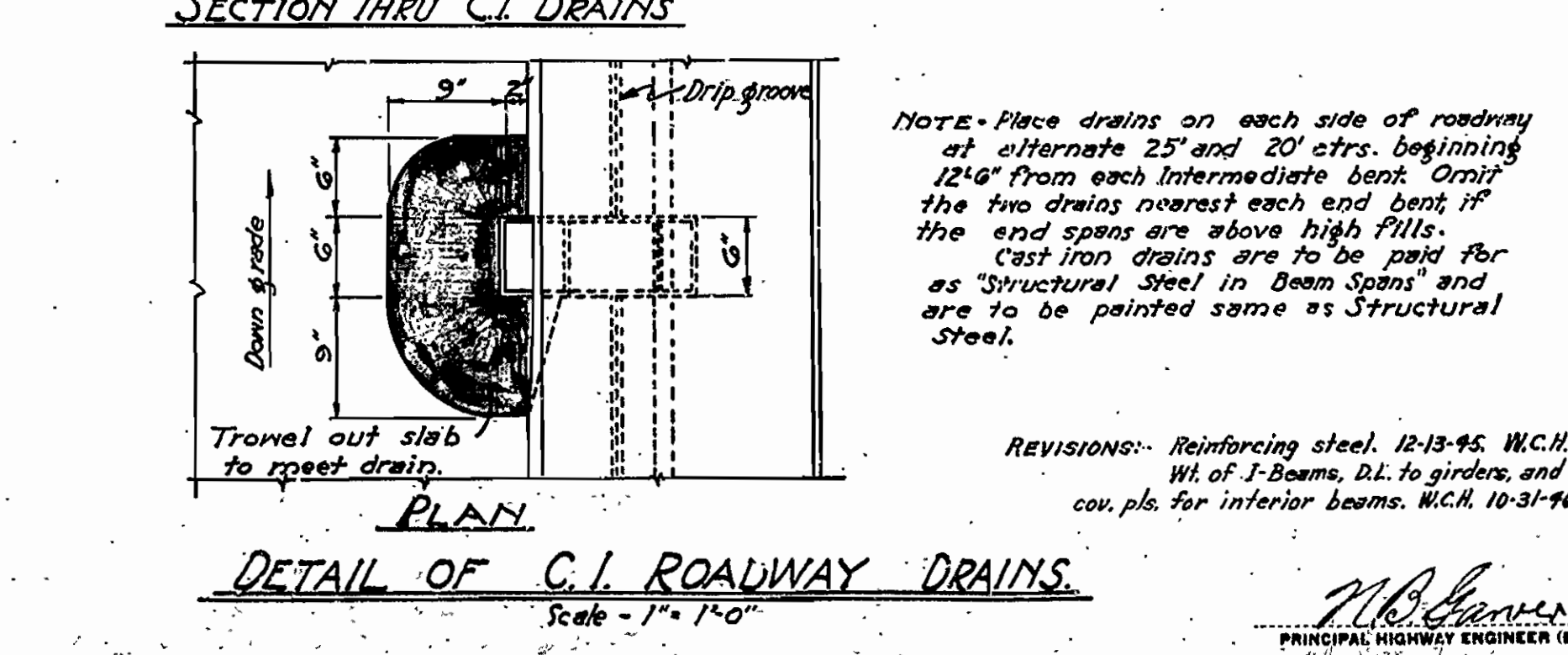
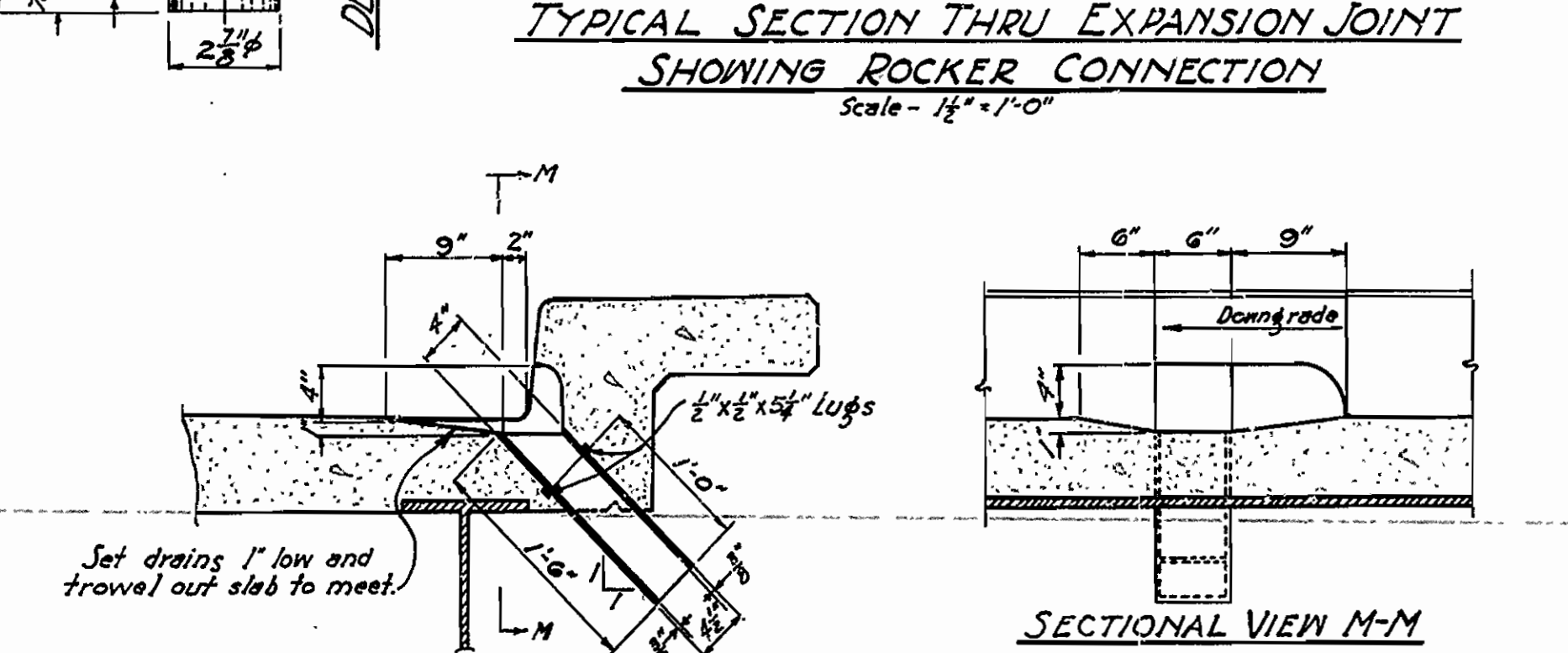
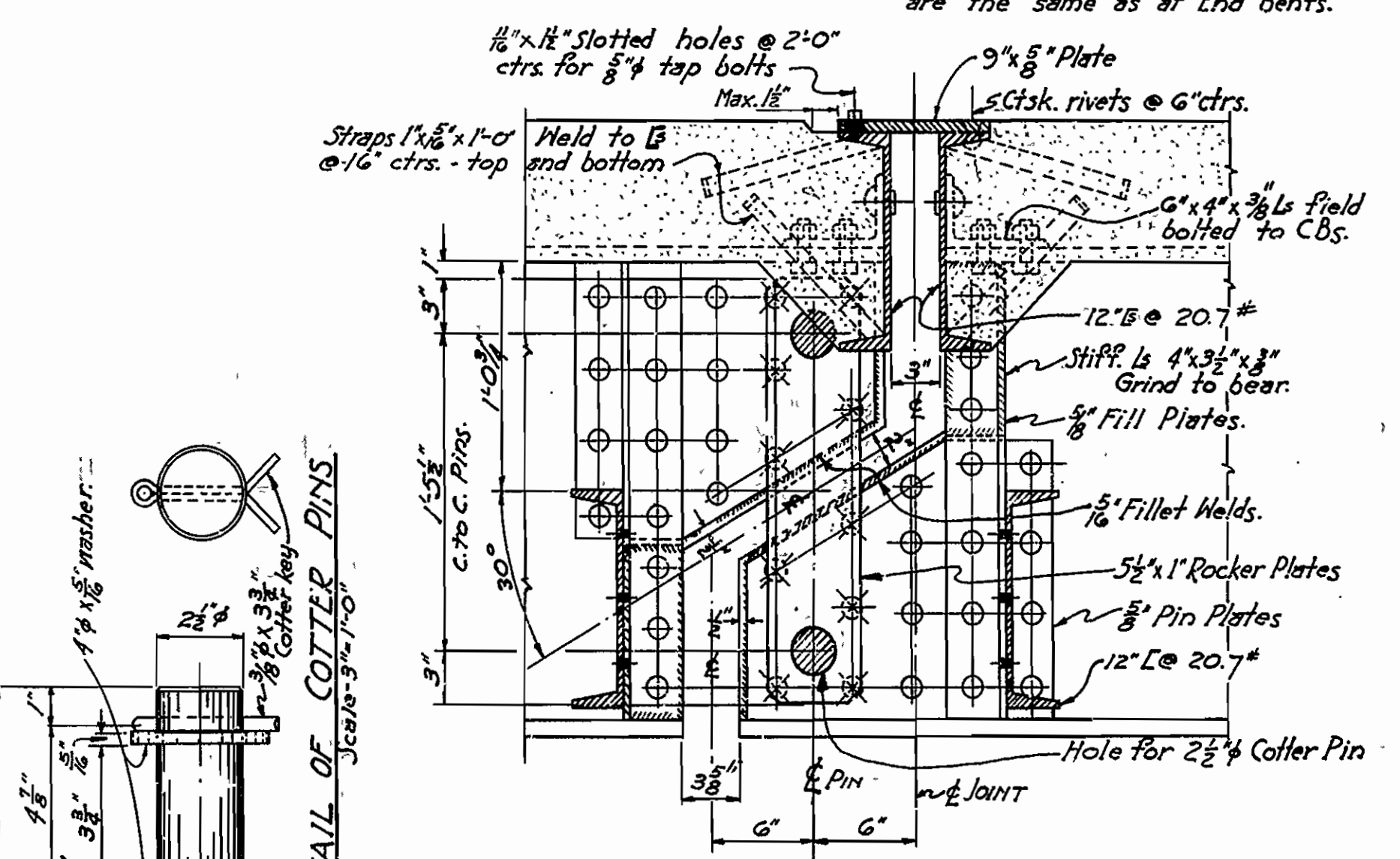
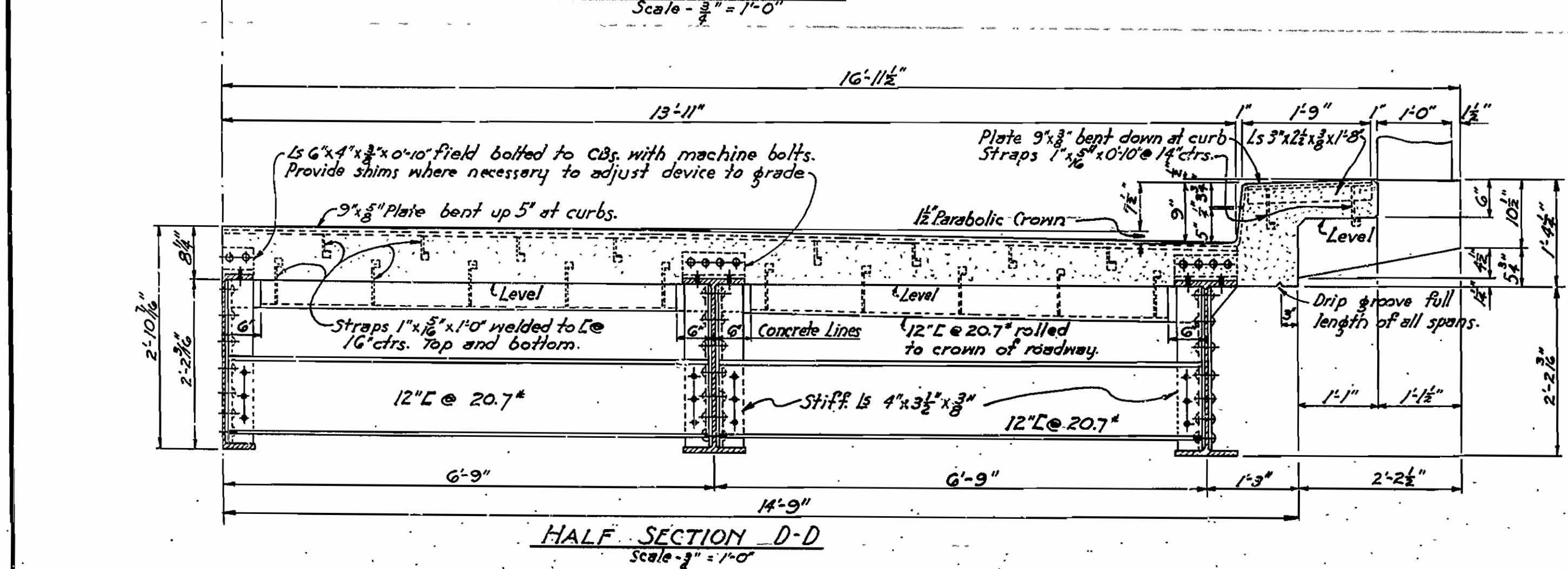
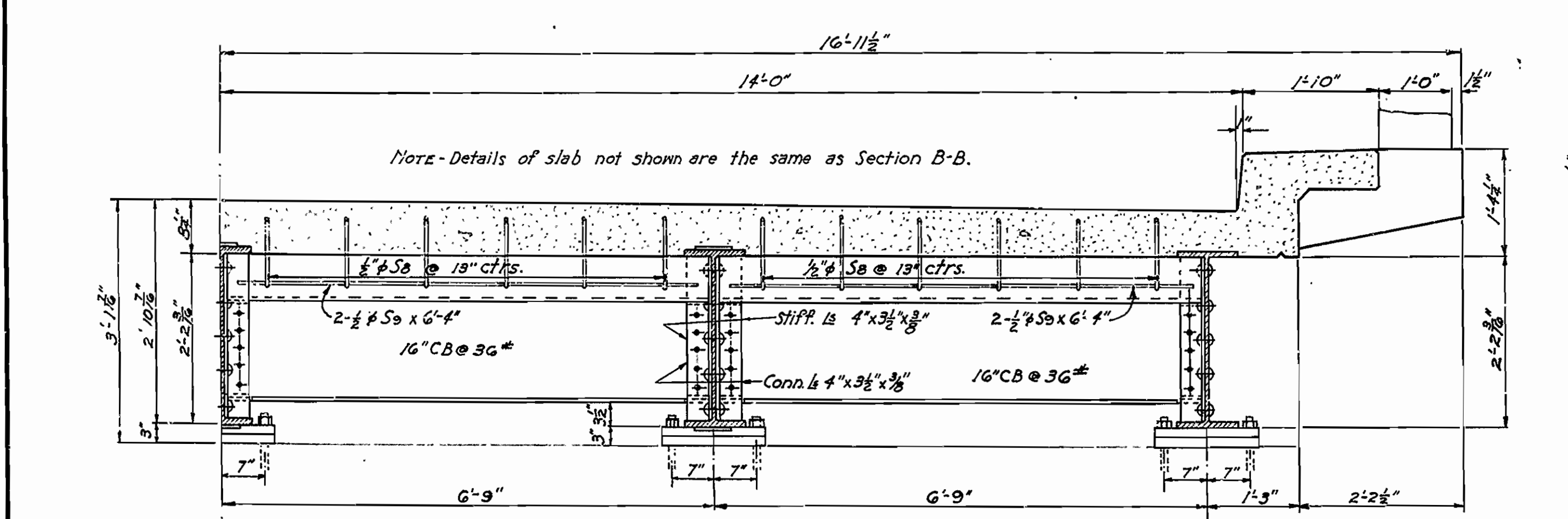
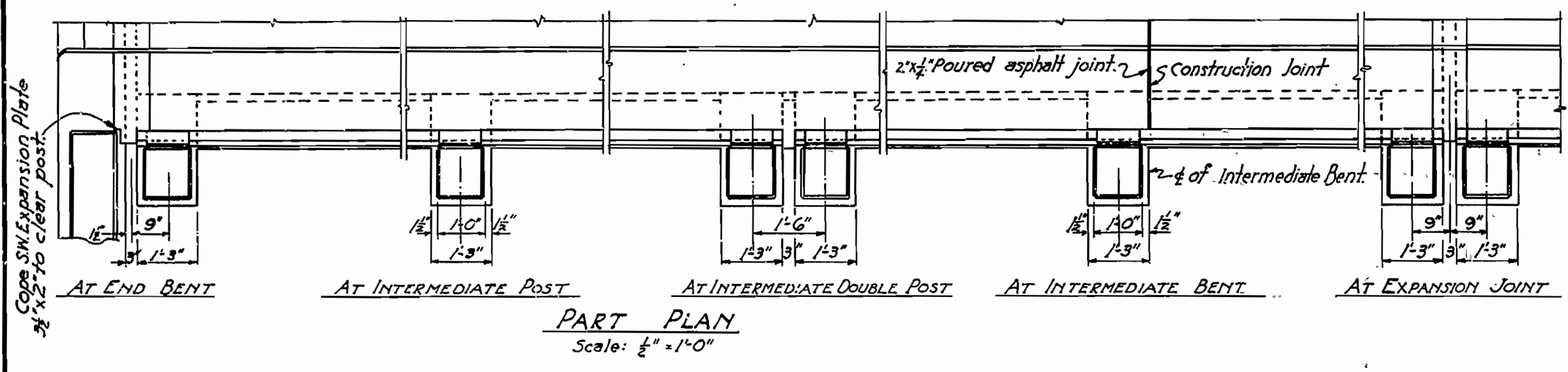
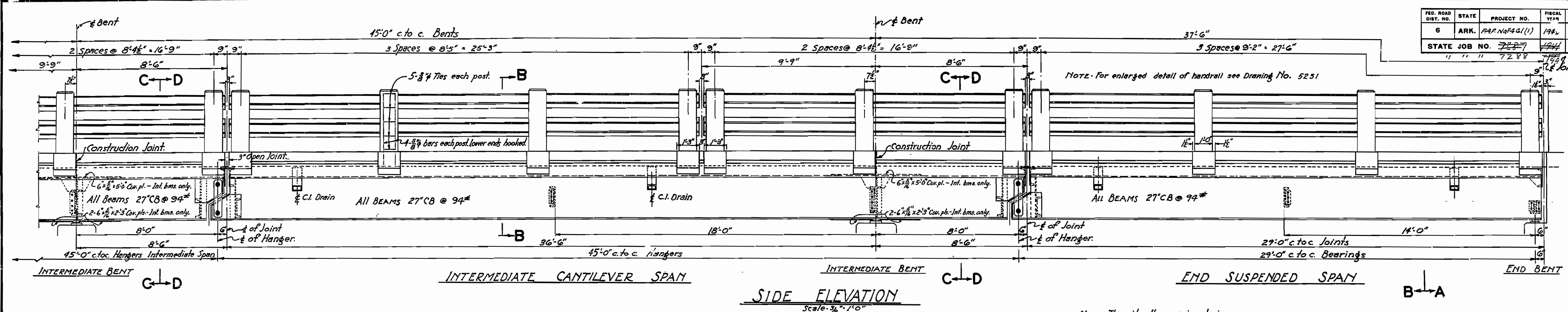
SHEET No. 2
LAYOUT OF MAIN SPANS
BRIDGE OVER SALINE RIVER
WARREN-WILMAR ROAD
BRADLEY COUNTY
ROUTE 4 SEC. 13
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: *H.B.* Date: 7-25-41
Traced By: *H.B.* Date: 7-28-41
Checked By: _____ Date: _____
BRIDGE NO. 2212 DRAWING NO. 6235

Scale: 1 in. = 20 ft.

M. S. Harvey
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

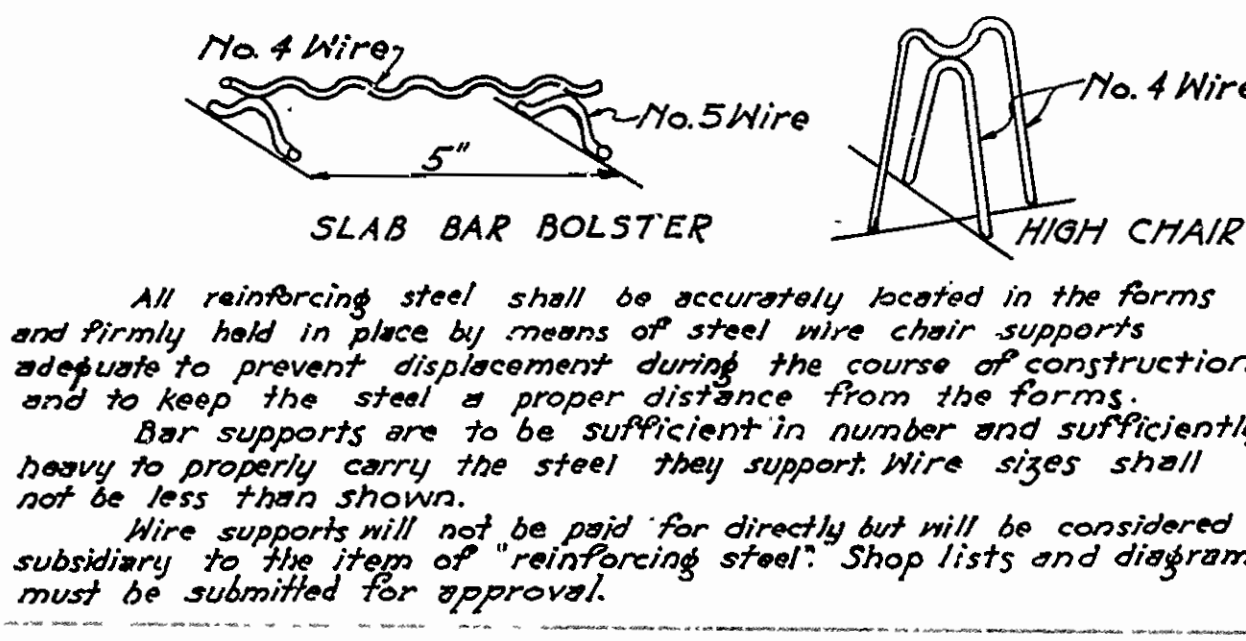
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	PAR. NAF 4(1)	1944	9	26
STATE JOB NO.	7227	7228	7229	7230	7231
	11	11	11	11	26



SLAB BAR LIST

MARK	SIZE	LENGTH	BENDING DIAGRAM
S1	5/8"	30'-2"	
S2	5/8"	31'-2"	
S3	5/8"	31'-4"	
S4	1/2"	Straight Lengths vary	
S5	5/8"	5'-0"	
S6	1/2"	10'-4"	
S6a	1/2"	10'-0"	
S7	5/8"	9'-3"	
S8	1/2"	3'-1"	
S9	1/2"	Straight 6'-2"	

NOTE: Dimensions relating to reinforcing steel are to center of bars.



All reinforcing steel shall be accurately located in the forms and firmly held in place by means of steel wire chair supports adequate to prevent displacement during the course of construction and to keep the steel a proper distance from the forms. Bar supports are to be sufficient in number and sufficiently heavy to properly carry the steel they support. Wire sizes shall not be less than shown. Wire supports will not be paid for directly but will be considered subsidiary to the item of "reinforcing steel". Shop lists and diagrams must be submitted for approval.

SHEET NO. 2
45'-0" INTERMEDIATE CANTILEVER AND 29'-0" END SUSPENDED I-BEAM SPANS, 28'-0" CLEAR ROADWAY 2 SWKS. x 1-6" 5 GIRDER TYPE

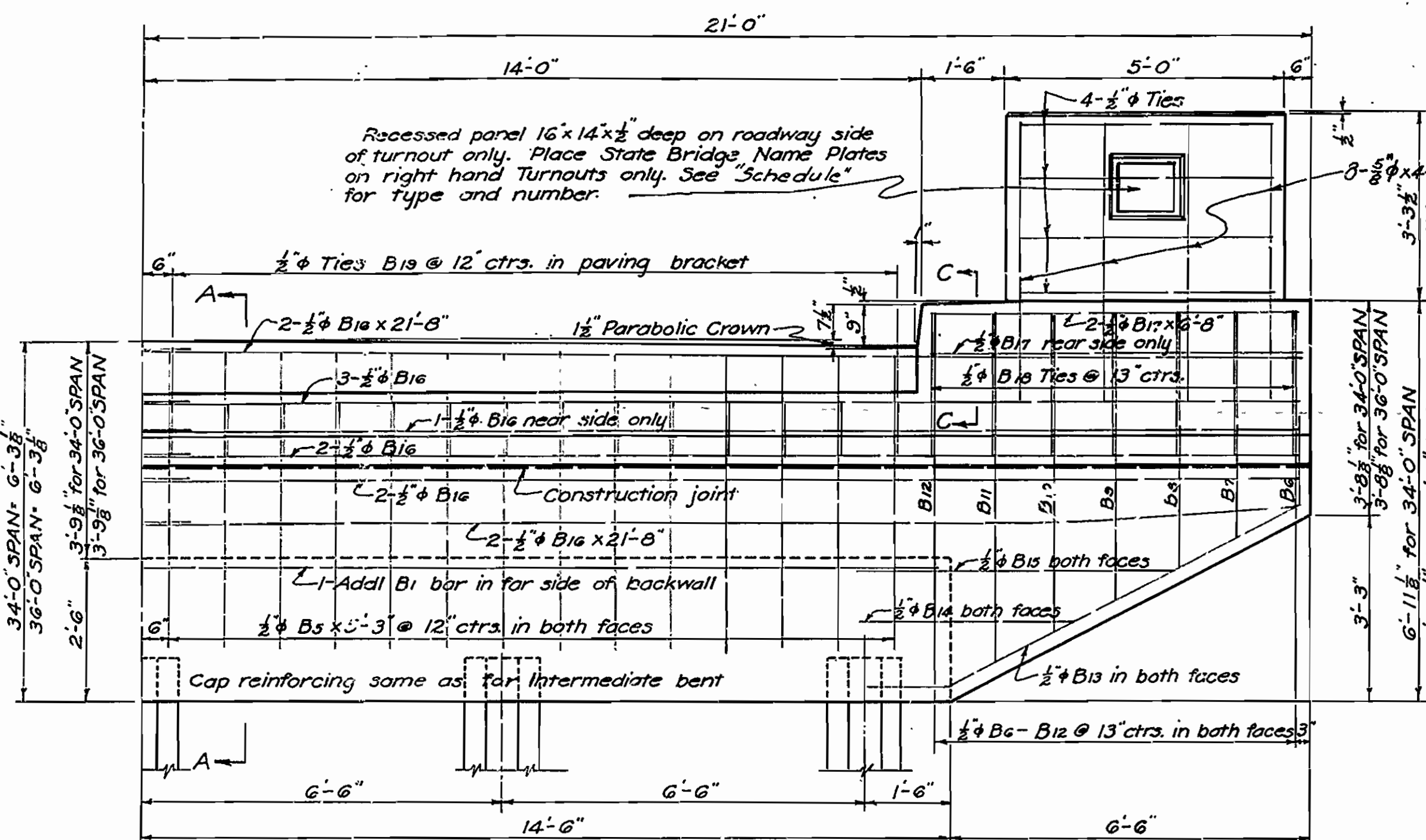
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: MCH Date: 8-26-41
Traced By: WJ Date: 7-12-41
Checked By: Date: _____

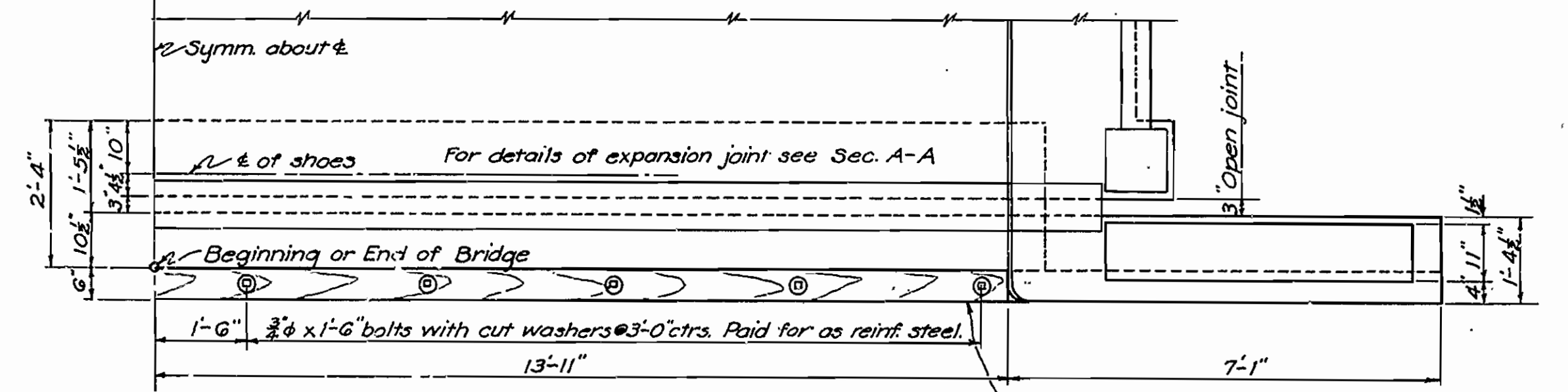
Scale: 1/8" = 1'-0"
BRIDGE NO. _____ DRAWING NO. 5251A

REVISIONS: Reinforcing steel, 12-13-45. MCH. Wt. of I-Beams, DL. to girders, and cov. pls. for interior beams. MCH. 10-31-46.

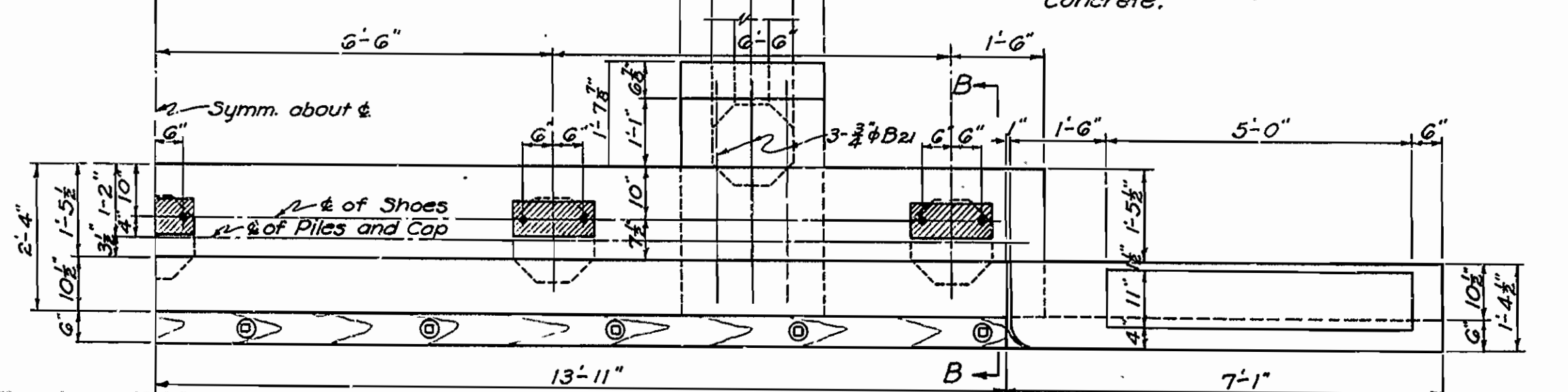
M. S. GARDNER
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)



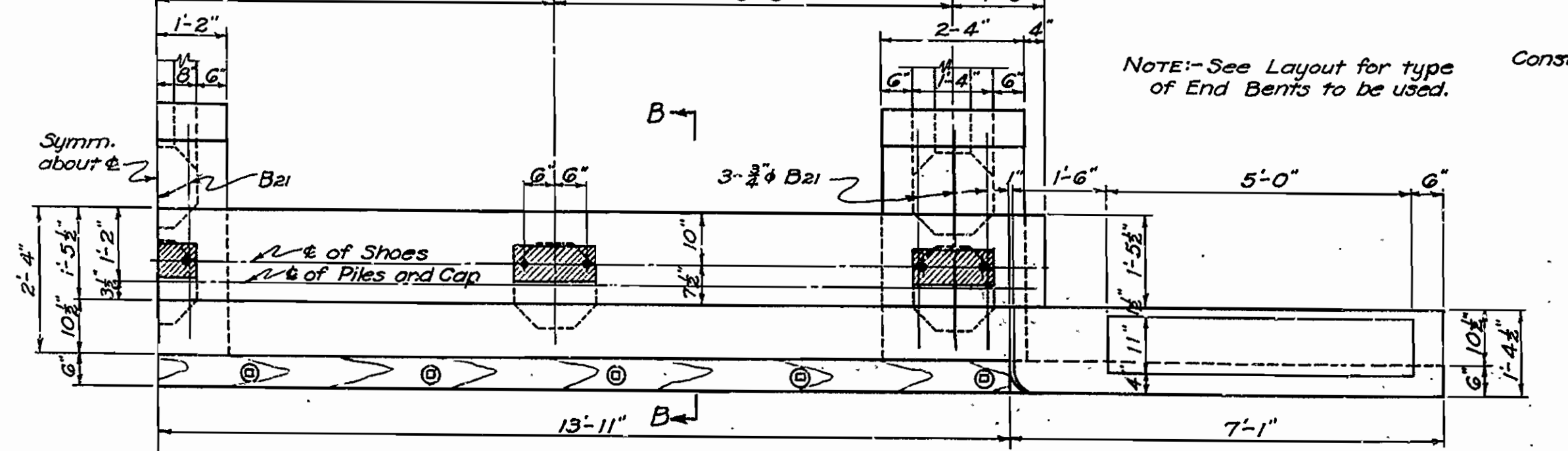
HALF REAR ELEVATION - END BENT
for Location of Batter Piles see Details below



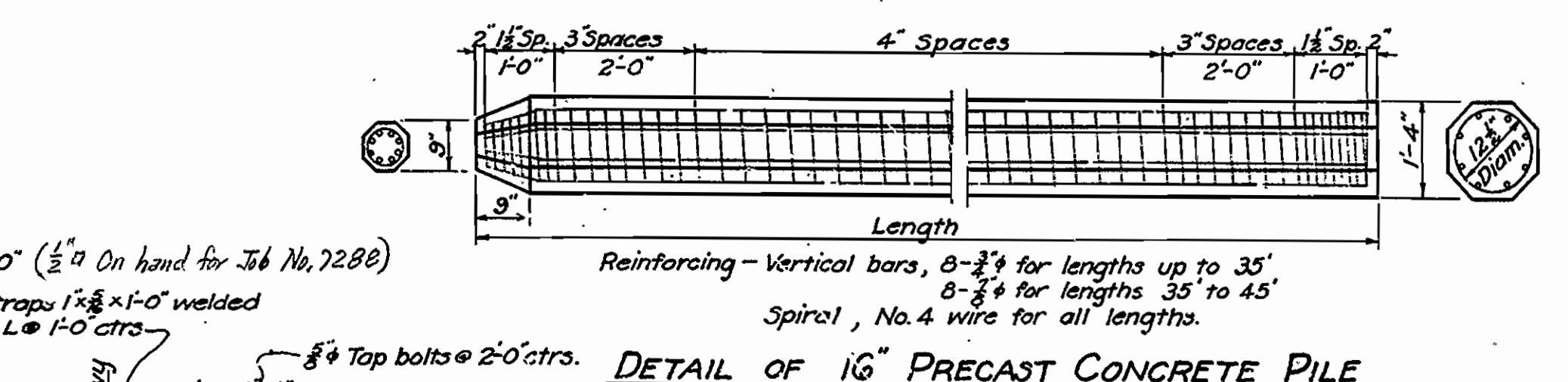
HALF PLAN OF REGULAR END BENT



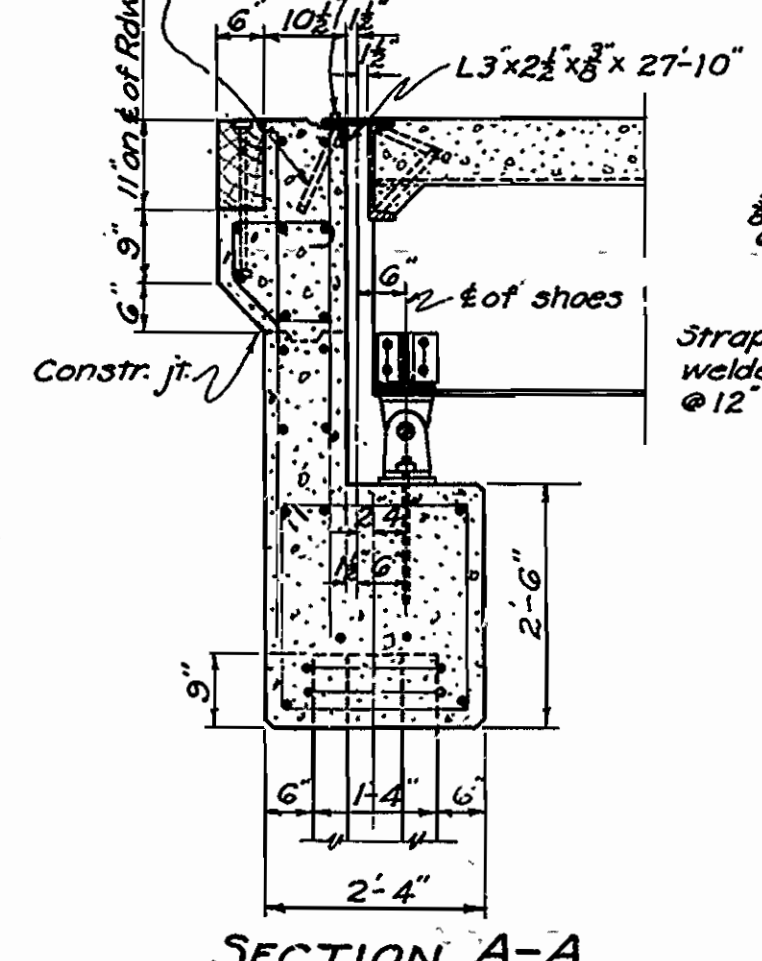
HALF PLAN OF END BENT WITH TWO BATTER PILES



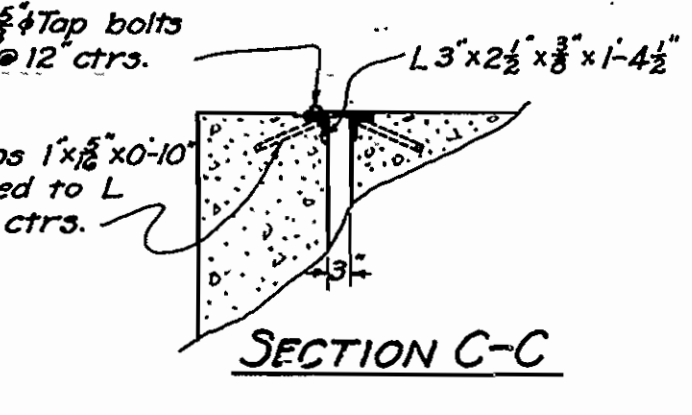
HALF PLAN OF END BENT WITH THREE BATTER PILES



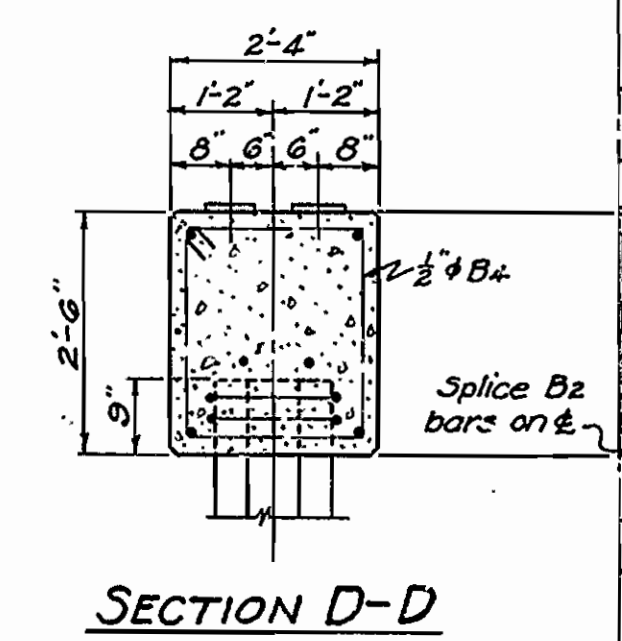
DETAIL OF 16" PRECAST CONCRETE PILE



SECTION A-A



SECTION C-C



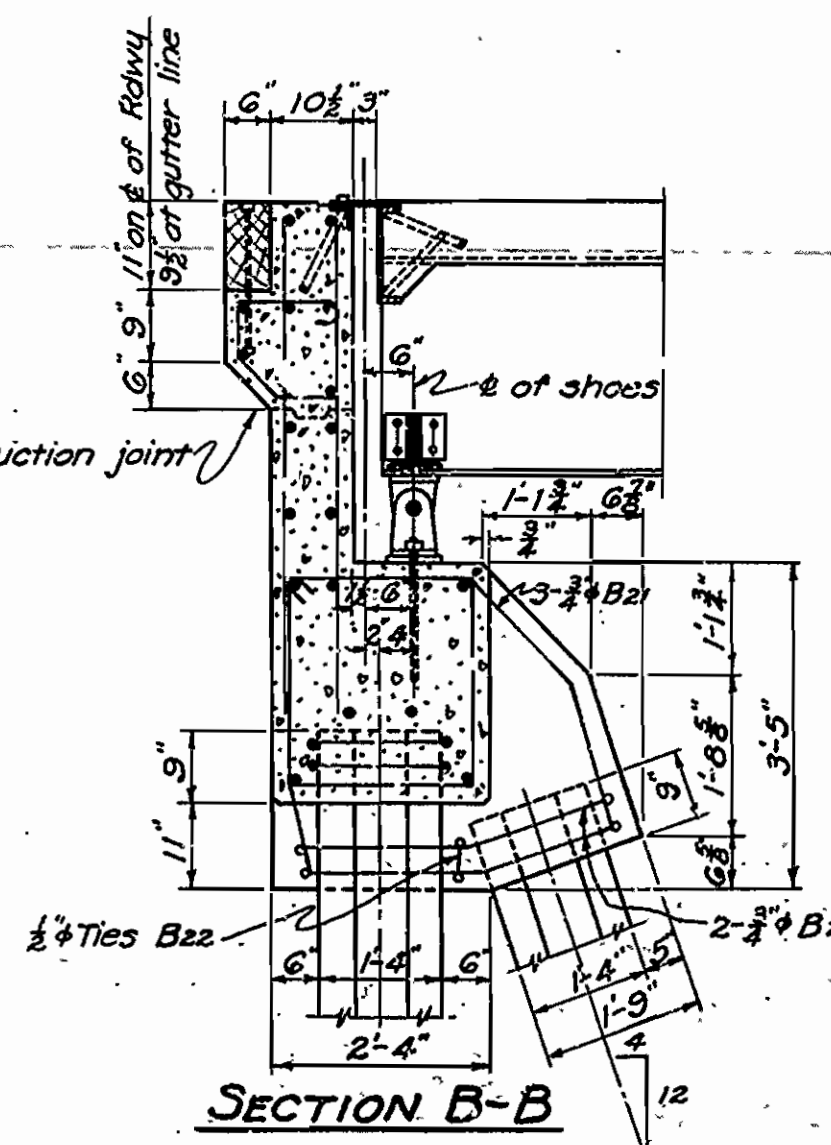
SECTION D-D

NOTE: For details of superstructure, see Drawing No. 5217

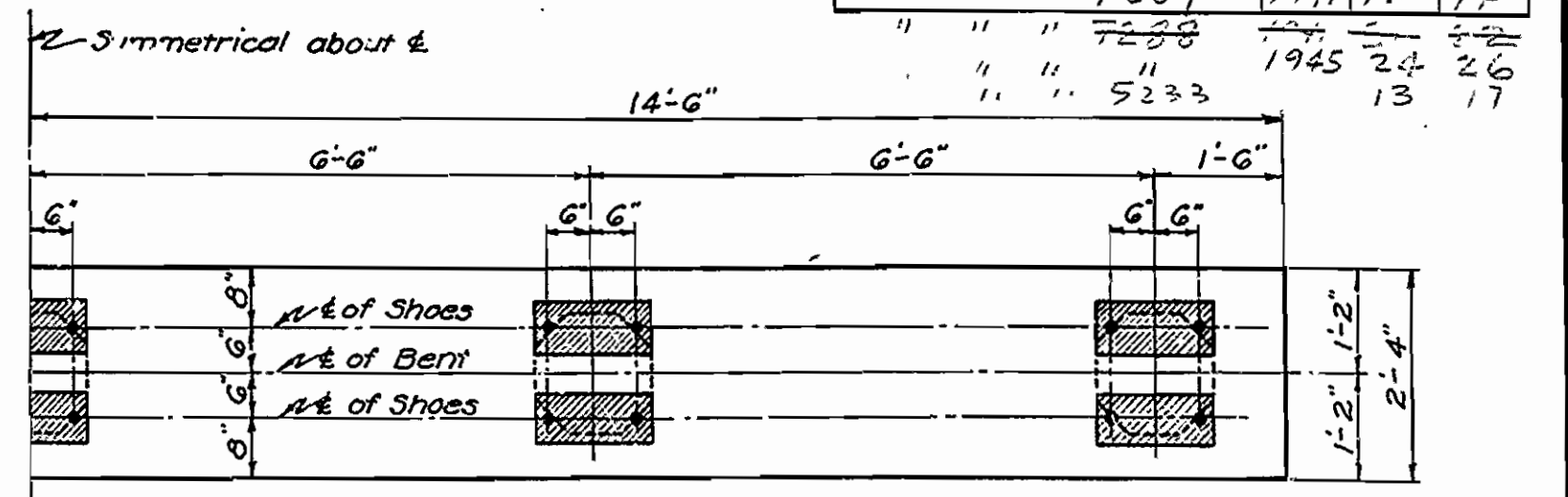
LIST OF BENT BARS FOR BENTS

MARK	SIZE	LENGTH	A	B	BENDING DIAGRAM
BP3	1" dia	31'-11"			
BP4	1" dia	29'-9"			
BP5	3/4"	33'-6"	15'-1"	3'-4"	
BP6	3/4"	5'-6"			
B20	3/4"	11'-3"			
B21	3/4"	8'-2"			
B2	3/4"	31'-8"	15'-1"	1'-6"	
B3	3/4"	6'-3"	2'-1 1/2"	1-11 1/2"	
B4	3/4"	8'-11"	2'-1 1/2"	1-11 1/2"	
B22	3/4"	5'-5"	1'-11"	0'-5"	
BP7	3/4"	11'-0"			
B13	3/4"	10'-0"			
B18	3/4"	4'-6"	2'-0"		
B19	3/4"	3'-0"	0'-6"		

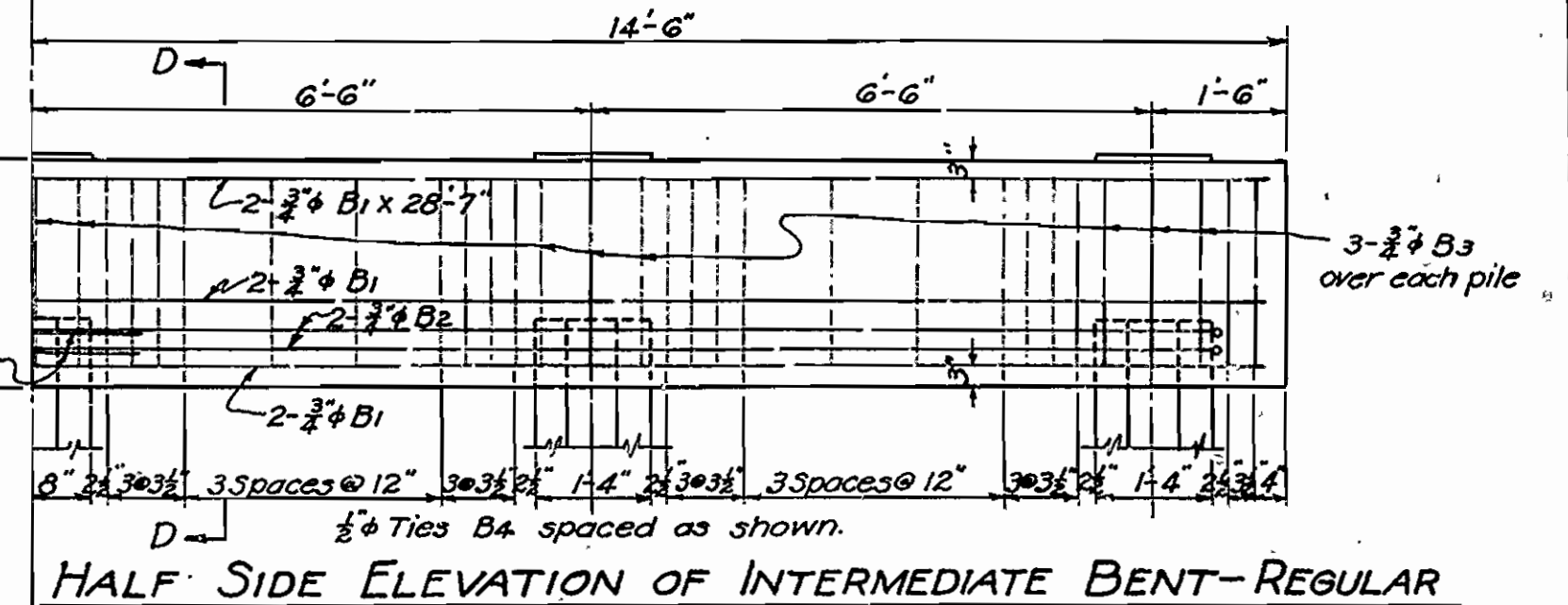
NOTE: Dimensions relating to reinforcing steel are to centers of bars.



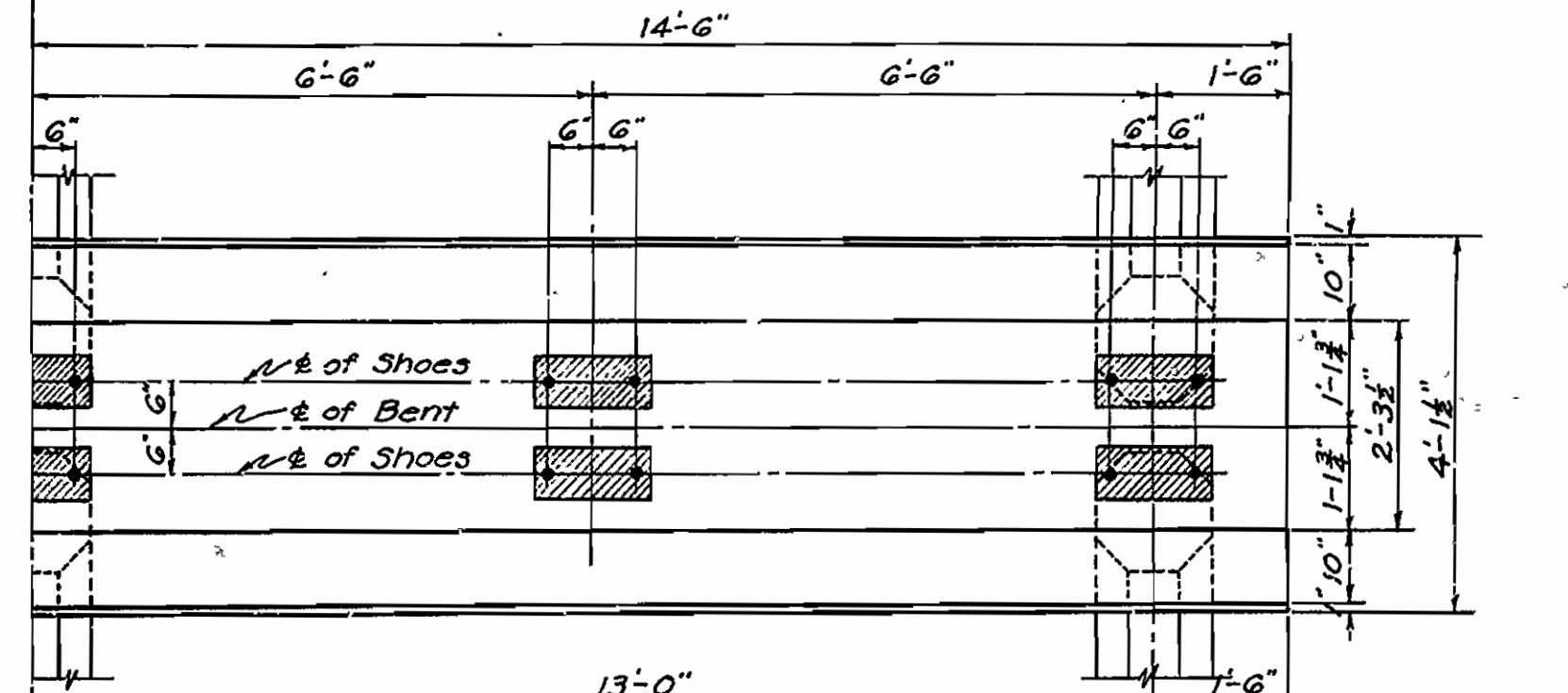
SECTION B-B



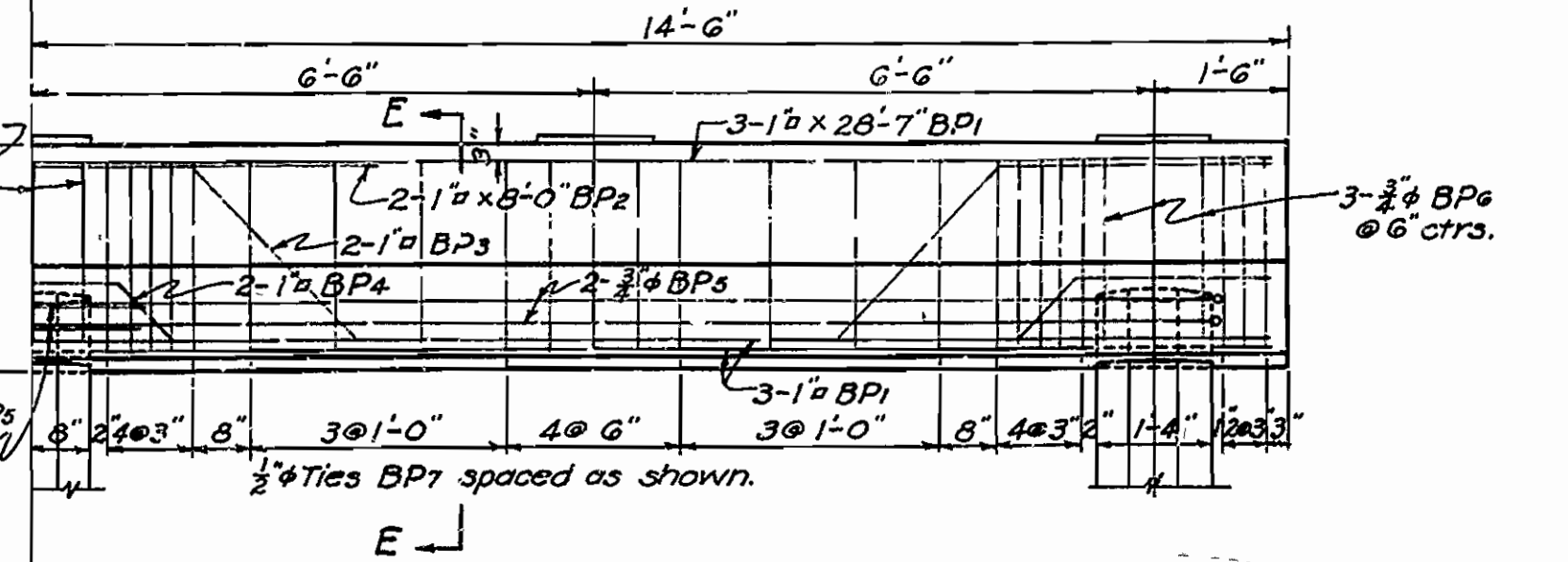
HALF PLAN OF INTERMEDIATE BENT CAP



HALF SIDE ELEVATION OF INTERMEDIATE BENT - REGULAR



HALF PLAN OF INTERMEDIATE BATTER PILE BENT



HALF SIDE ELEV. OF INTERMEDIATE BATTER PILE BENT

GENERAL NOTES

All concrete to be Class 3. All exposed corners to have 3/8" chamfers unless otherwise noted.
Shop lists and bending diagrams of reinforcing steel must be submitted and approval secured before fabrication is begun.
Volume occupied by oak header plank to be included in quantity of Class 3 Concrete. Bolts for oak header are to be paid for at the unit price bid for reinforcing steel.
Maximum computed bearing 31 Tons per pile - intermediate bents. Piles to be driven to a minimum capacity of 32 Tons.
SPECIFICATIONS: - Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted March 1, 1940.

UNIT STRESSES

Class 3 Concrete (f' = 10) fc = 1000 psi
Reinforcing Steel fs = 18,000 psi
Structural Steel fs = 18,000 psi

F. ... Post. dowels. 12-13-45 M.C.H.

M. Blawie
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

DETAIL OF BENTS FOR STANDARD 34'-0" & 36'-0" I-BEAM SPANS 28'-0" CLEAR ROADWAY 2'-1-6" SIDEWALKS ROUTE SEC:

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

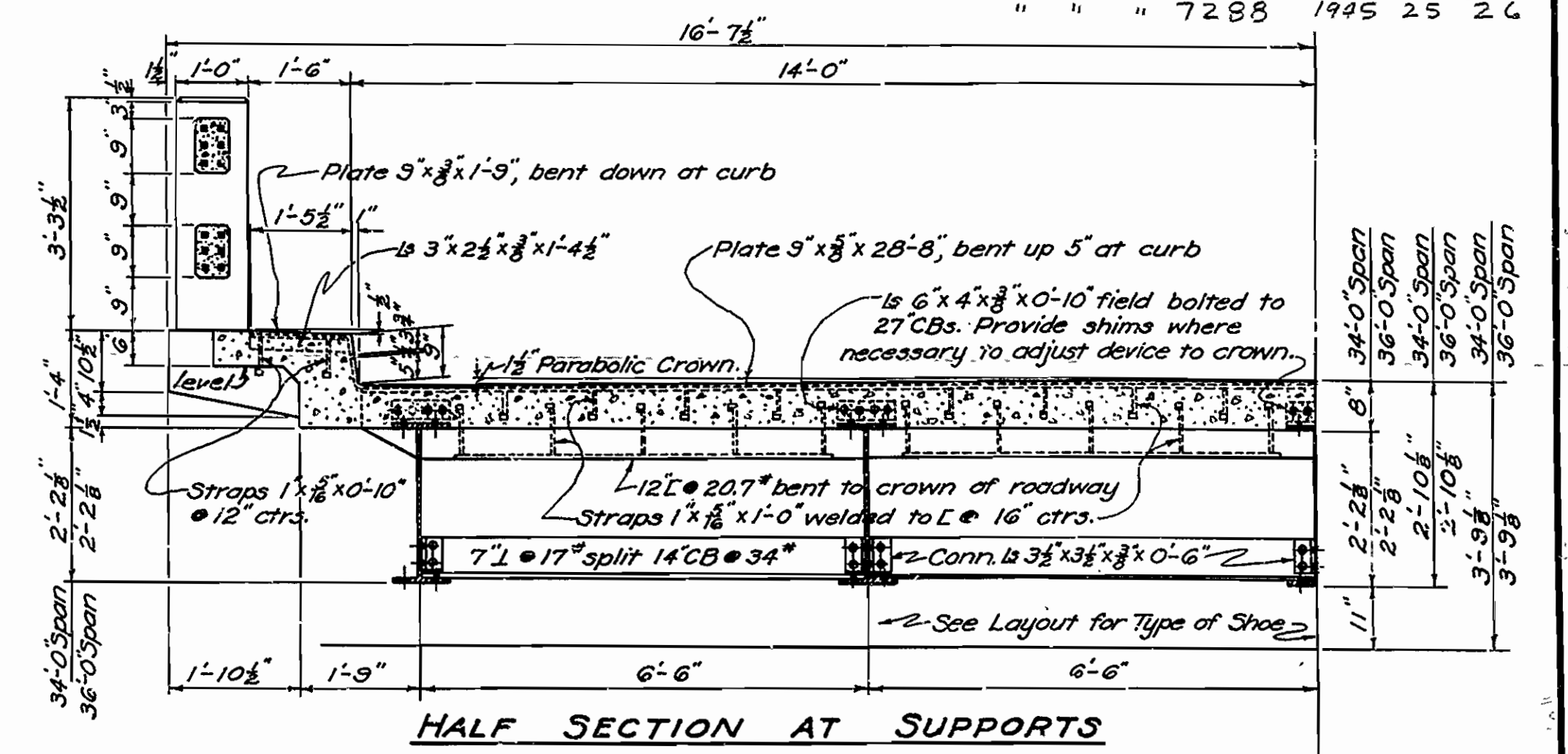
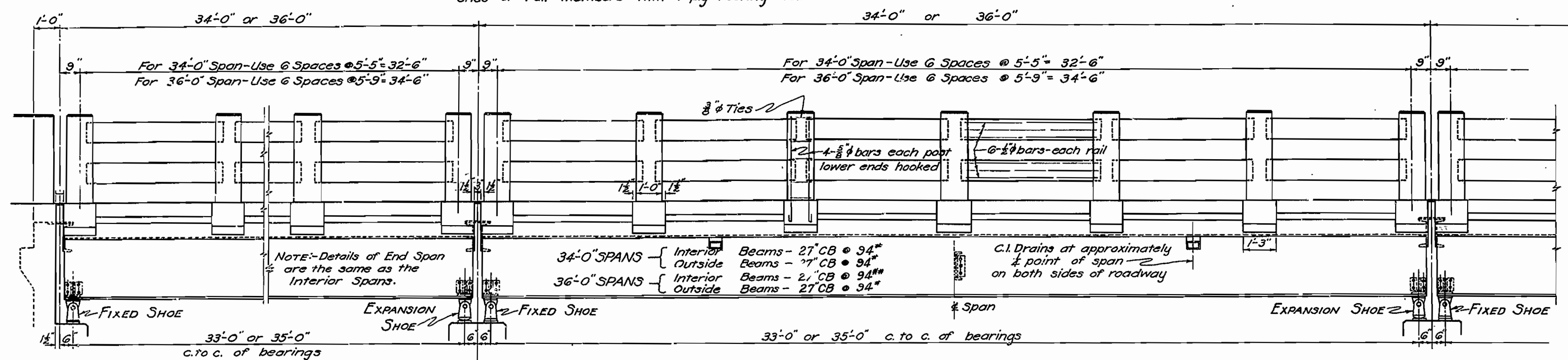
Drawn By: *MCH* Date: 4-26-41
Traced By: *MWH* Date: 5-22-41
Checked By: _____ Date: _____

Scale: 1/2" = 1'

BRIDGE NO. 2211
2147
DRAWING NO. 5216

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	F.A.P. No. F42(1)	1945	25	26
STATE JOB NO.	7257	1771	1771	22	22
"	"	7298	1945	25	26

NOTE: - Extend rail members 3/4" into rail post. Wrap both ends of rail members with 1-ply roofing felt.

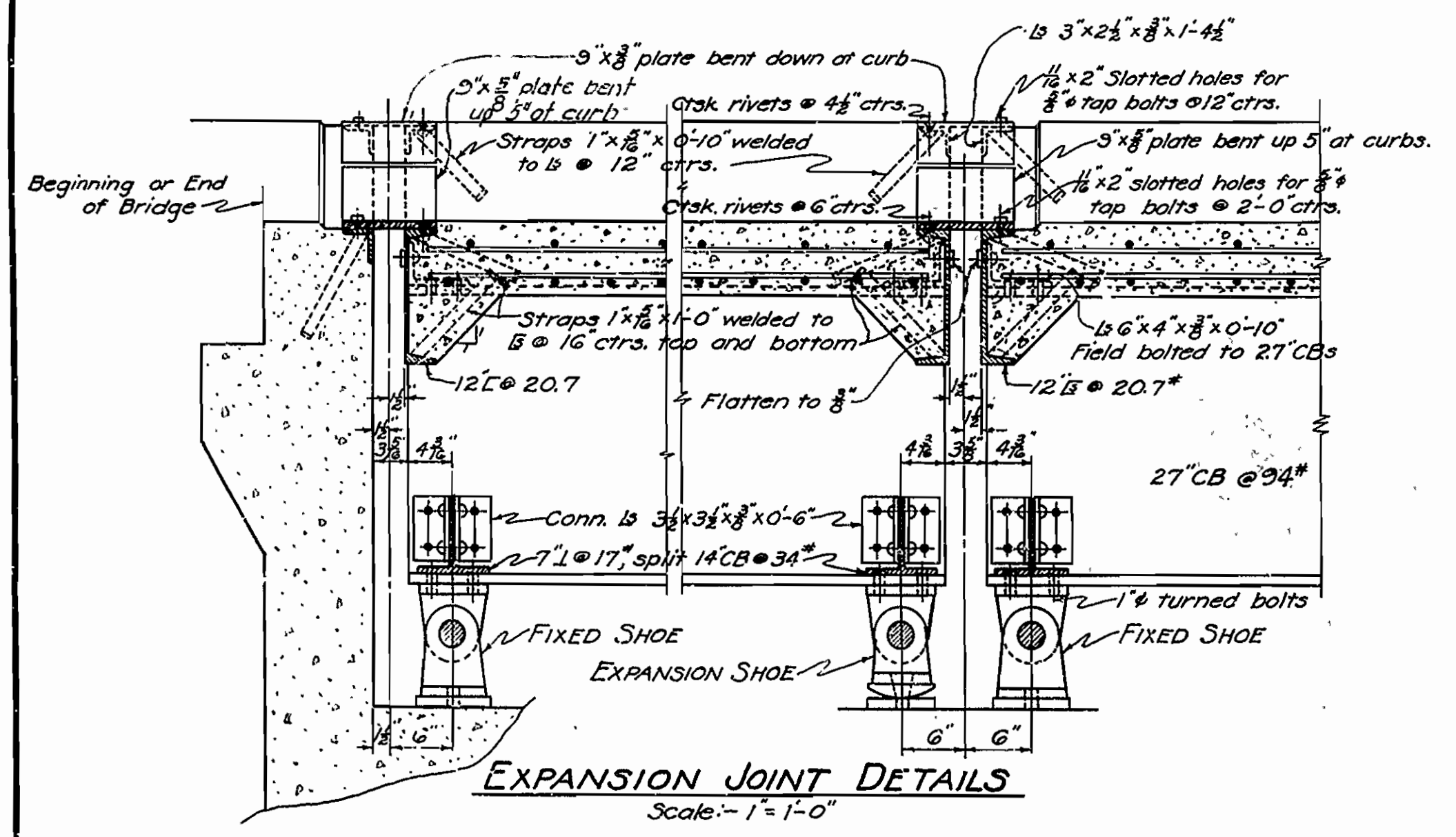
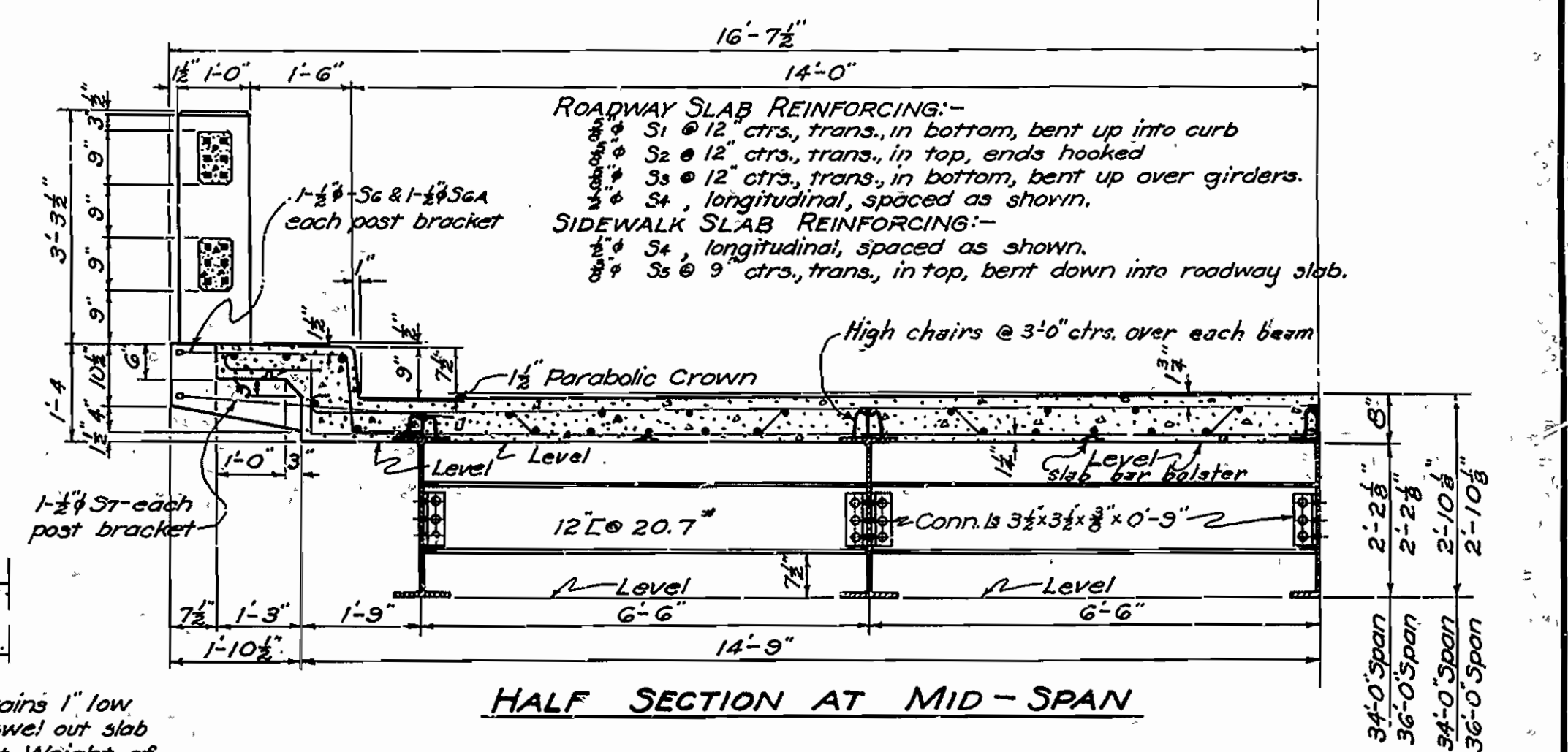
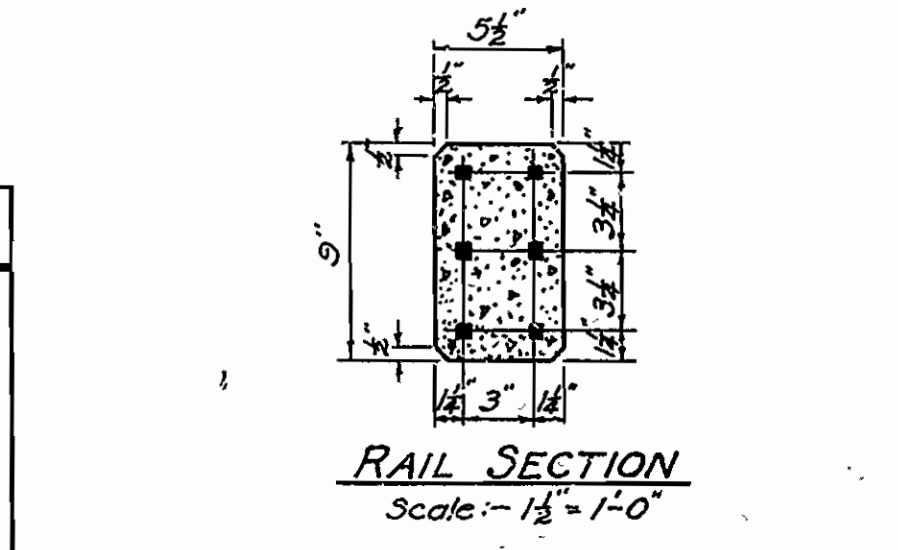


INTERMEDIATE SPAN
SIDE ELEVATION
Scale: 1/8" = 1'-0"

LIST OF BENT BARS FOR SLABS

MARK	SIZE	LENGTH	BENDING DIAGRAM
S1	3/8"	29'-11"	[Diagram]
S2	3/8"	31'-2"	[Diagram]
S3	3/8"	31'-1"	[Diagram]
S5	3/8"	5'-4"	[Diagram]
S6	1/2"	9'-10"	[Diagram]
S6A	1/2"	9'-6"	[Diagram]
S7	1/2"	11'-6"	[Diagram]

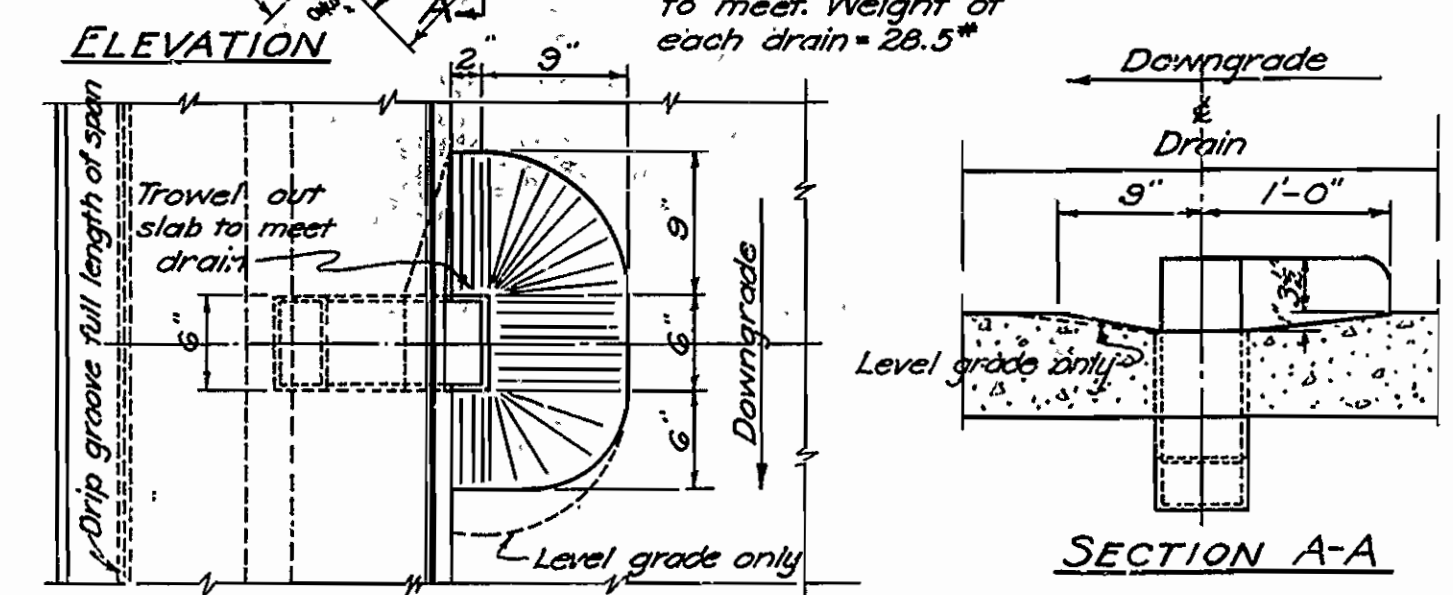
NOTE: - Dimensions relating to reinforcing steel are to center of bars.



DESIGN LIVE LOAD - H-20 LOADING
WIDTH OF LANE = 10 FEET

LOAD DISTRIBUTION TO GIRDERS

GIRDERS	DEAD LOAD	ROADWAY LIVE LOAD	SIDEWALK LIVE LOAD
34'-0" SPAN Sidewalk Girder	1080 lb/lin.ft.	0.850 Wheels	None
Outside Roadway Girder	810 lb/lin.ft.	1,300 Wheels	None
Center Roadway Girder	810 lb/lin.ft.	1,300 Wheels	None
36'-0" SPAN Sidewalk Girder	1080 lb/lin.ft.	0.850 Wheels	None
Outside Roadway Girder	810 lb/lin.ft.	1,300 Wheels	None
Center Roadway Girder	810 lb/lin.ft.	1,300 Wheels	None



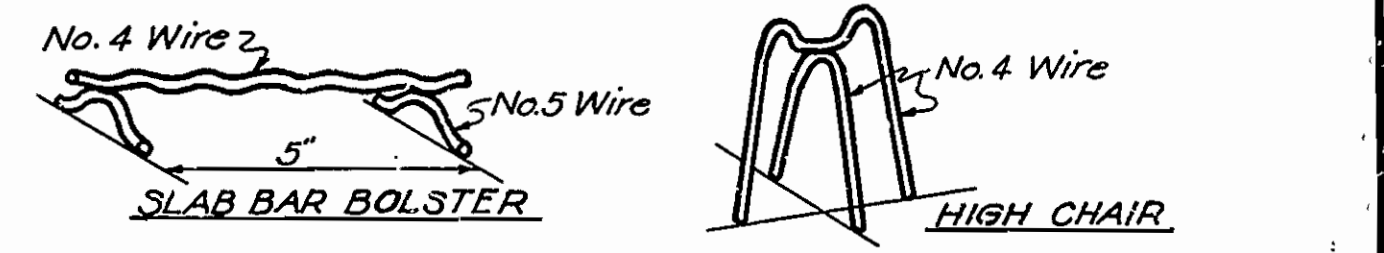
UNIT STRESSES

Class 5 Concrete (ns.10)	1000 lb/sq.in.
Reinforcing Steel	18,000 lb/sq.in.
Structural Steel	18,000 lb/sq.in.

GENERAL NOTES

All concrete to be Class 5. All corners to be chamfered 1/4" unless otherwise noted.
Rivets 3/4". Open holes 1/2". Unless turned bolts are specified use machine bolts where bolts are indicated.
Structural shapes of equal or greater strength may be substituted for shapes shown but payment will be made on shapes shown or actually used whichever is the lesser.
All welded connections to be 1/4" fillet shop welds except as noted. Welding to be by the electric arc process.
All bearing and roadway expansion devices to be paid for at the unit price bid for structural steel in beam spans.
Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams must be submitted and approved secured before fabrication is begun.
Cast iron drains to be paid for as reinforcing steel and to be painted the same as structural steel.
Shop Paint: - All structural steel shall be given one coat of red lead and raw linseed oil before shipment, except surfaces in contact with concrete.

Field Paint: - 1st coat, white lead; 2nd coat, Aluminum paint
This drawing shows general features of design only. Shop drawings shall be made in accordance with the specifications, submitted and approved secured before fabrication is begun.
To provide for deflection of girders due to dead load, the slab is to be 1/2" thicker at mid-span and 3/8" thicker at the quarter points. Increase thickness of slab to provide for vertical curve camber.
SPECIFICATIONS: - Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted March 1, 1939.
Approved rivet nuts with lock nuts may be substituted for rivets for field connections.
REVISIONS: - Re-designed 12-13-45. W.C.H.
Field Paint 12-17-45. H.B.
Wt. 3 Beams 10-19-46. H.B.
substitution rivet bolts 4-4-47. H.B.

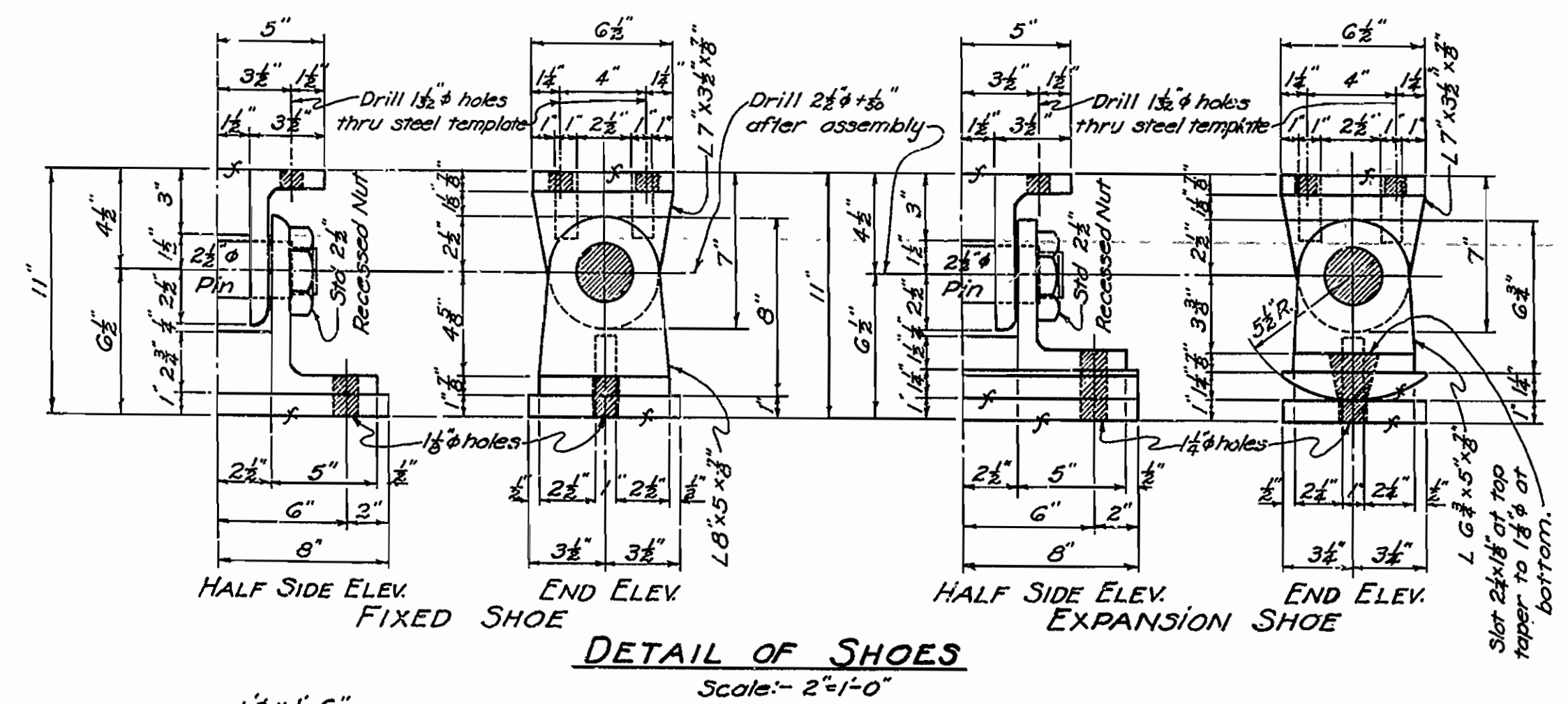


All reinforcing steel shall be accurately located in the forms and firmly held in place by means of steel wire chair supports adequate to prevent displacement during the course of construction, and to keep the steel a proper distance from the forms.
Bar supports are to be sufficient in number and sufficiently heavy to properly carry the steel they support. Wire sizes shall not be less than shown.
Wire supports will not be paid for directly, but will be considered subsidiary to the item of "Reinforcing Steel". Shop lists and diagrams must be submitted for approval.

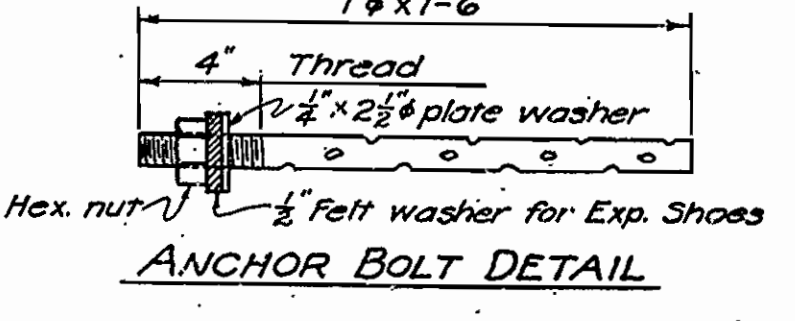
DETAILS OF STANDARD
34'-0" AND 36'-0" I-BEAM SPANS
28'-0" CLEAR ROADWAY, 2'-1/2" SIDEWALKS
5-GIRDER TYPE
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: W.C.H. Date: 4-23-41
Traced By: M.W.H. Date: 5-12-41
Checked By: _____ Date: _____
BRIDGE NO. 2671
DRAWING NO. 5217
Scale: 1/2" = 1'-0" ft. Except as noted.

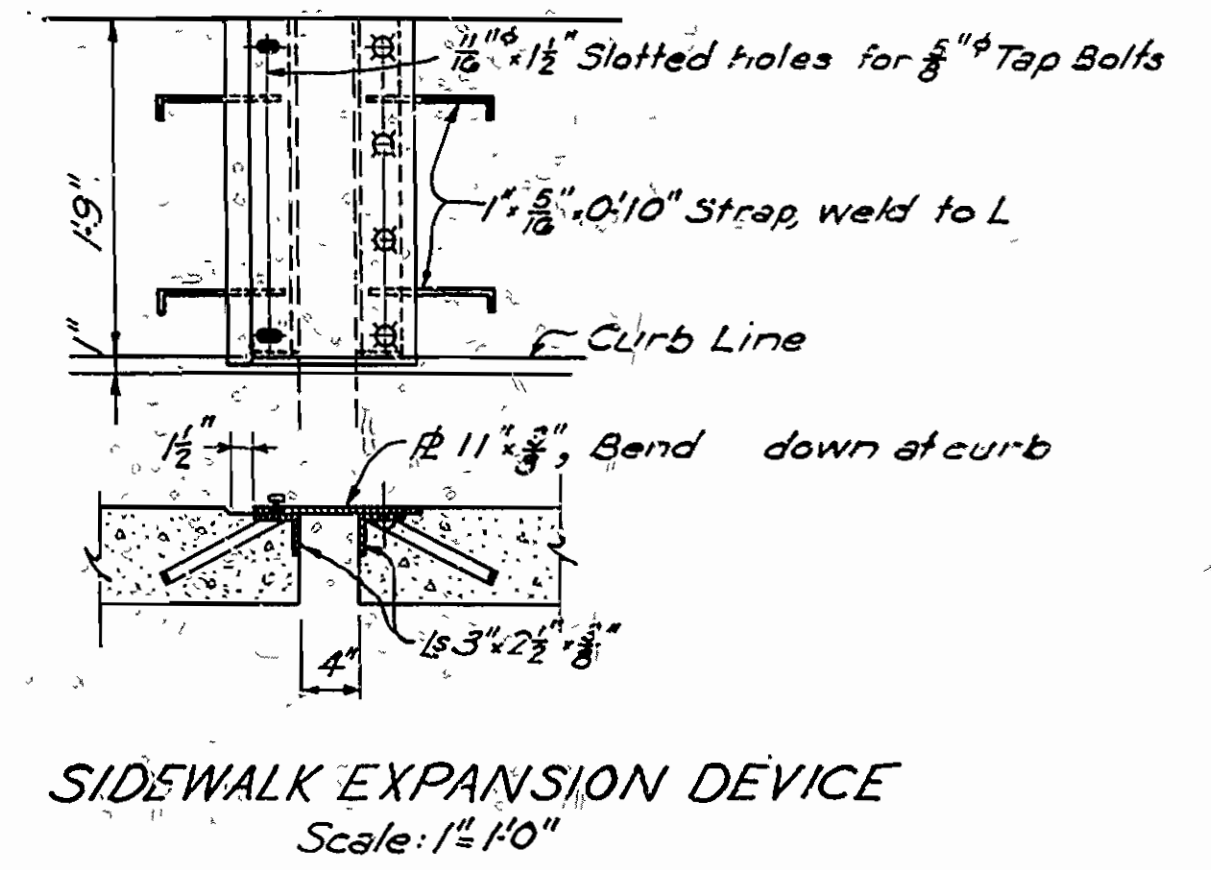
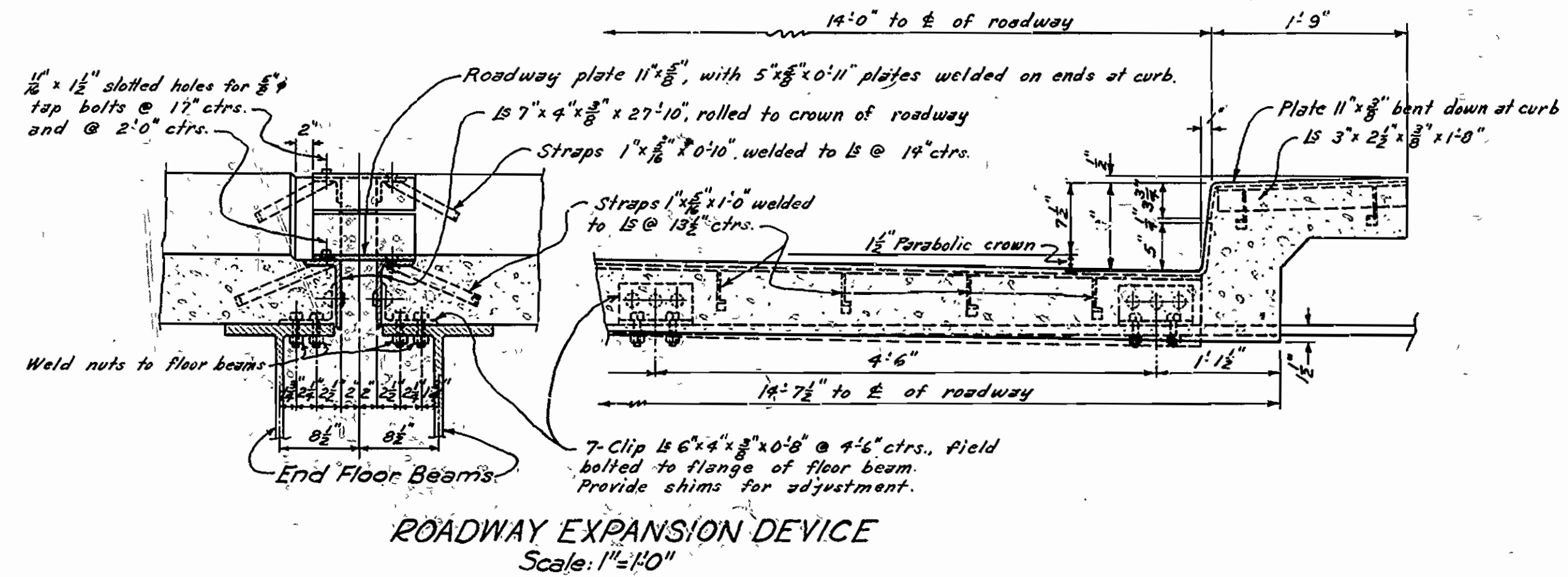
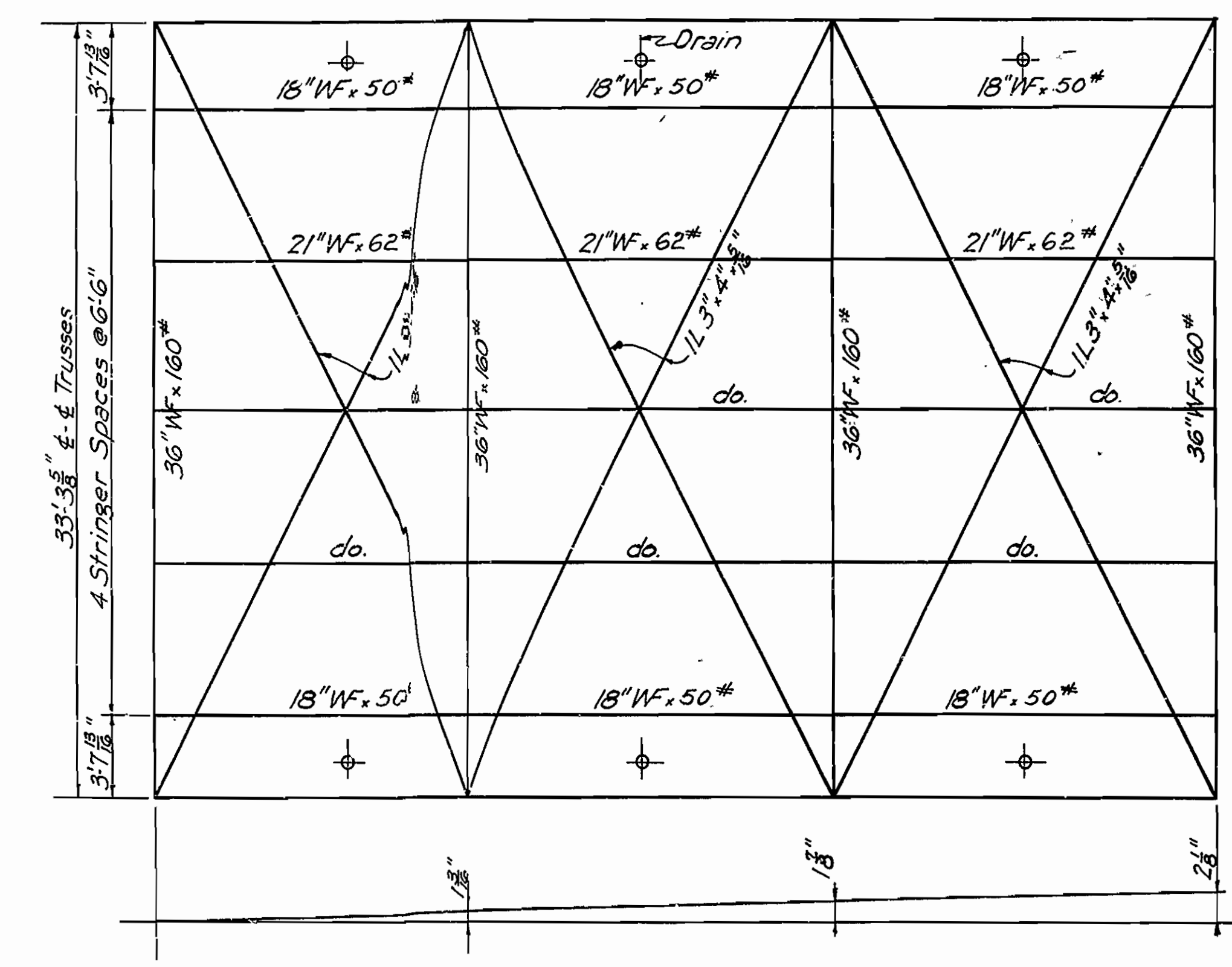
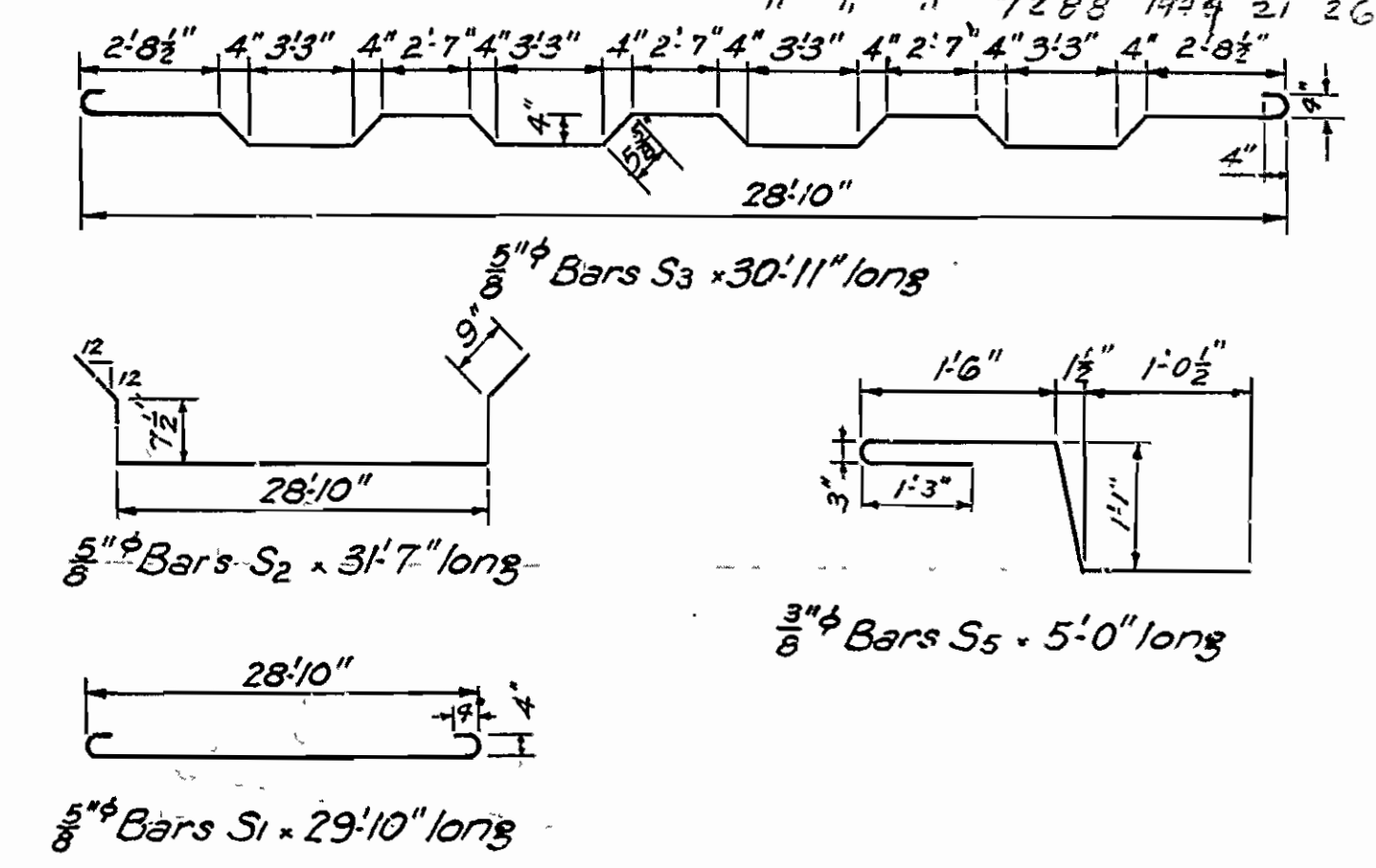
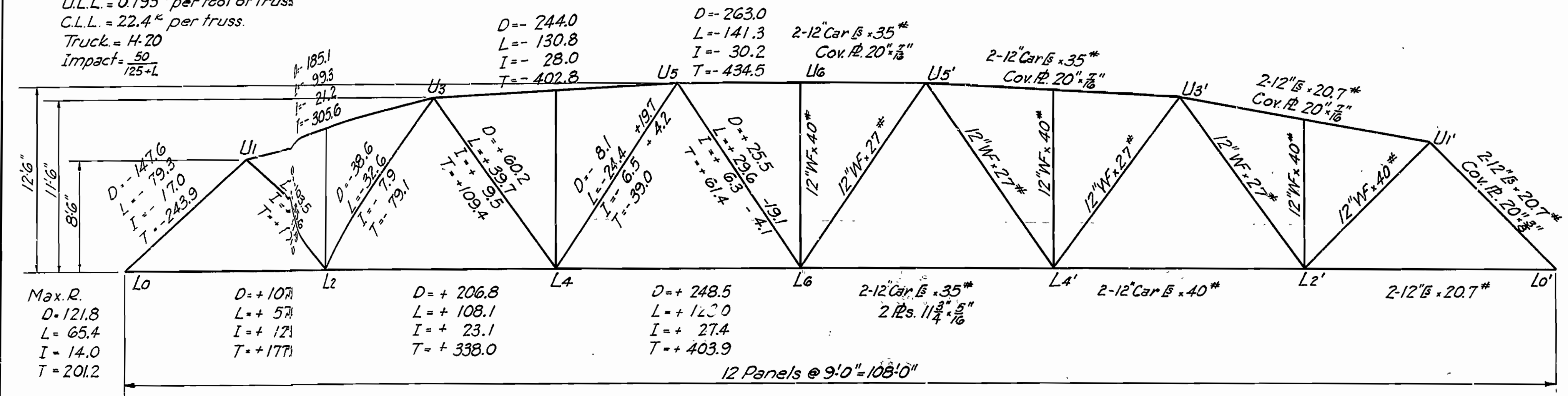


SHOE NOTES: - All shoes to be field bolted to 27" CBs, with 1" turned bolts.
All shoes to be built from structural steel plates and shapes. All material to be welded together with 1/4" fillet welds extending entire length of all edges and surfaces in contact. Surfaces in contact to be milled to bear before welding.
Masonry plates shall be finally seated on 3 layers of burlap saturated with red lead. This work and material to be included in the unit price bid for structural steel in beam spans.



Design Loads:
 D.L. = 2.25^k per foot of truss (includes 0.25^k of roadway for future wear surface)
 U.L.L. = 0.795^k per foot of truss
 C.L.L. = 22.4^k per truss
 Truck = H-20
 Impact = $\frac{50}{125+L}$

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	7288	1941	21	26
				13	22
				21	26



D.L. Deflection	= $\frac{1}{8}$ "	Job No. 7288
Permanent Camber	= 1"	Job No. 7288
Total	= $\frac{9}{8}$ "	

GENERAL NOTES

All concrete shall be Class S. Exposed corners shall be chamfered $\frac{3}{8}$ ".

All rivets shall be $\frac{3}{8}$ " except in flanges of G's where they shall be $\frac{5}{16}$ ". Q.H. shall be $\frac{1}{16}$ " larger than nominal diameter of rivet.

All holes in truss connections shall be sub-punched $\frac{3}{16}$ " and reamed to size while truss is assembled. This applies to both shop and field rivets.

Floorbeam connections shall be sub-punched $\frac{3}{16}$ " and reamed to a metal template. Floorbeams shall be milled to exact length after connection angles have been riveted.

Shop Paint: After all shop work is completed all pieces shall be given one coat of red lead and raw linseed oil before shipment.

Field Paint: First coat, white lead; second coat, aluminum paint.

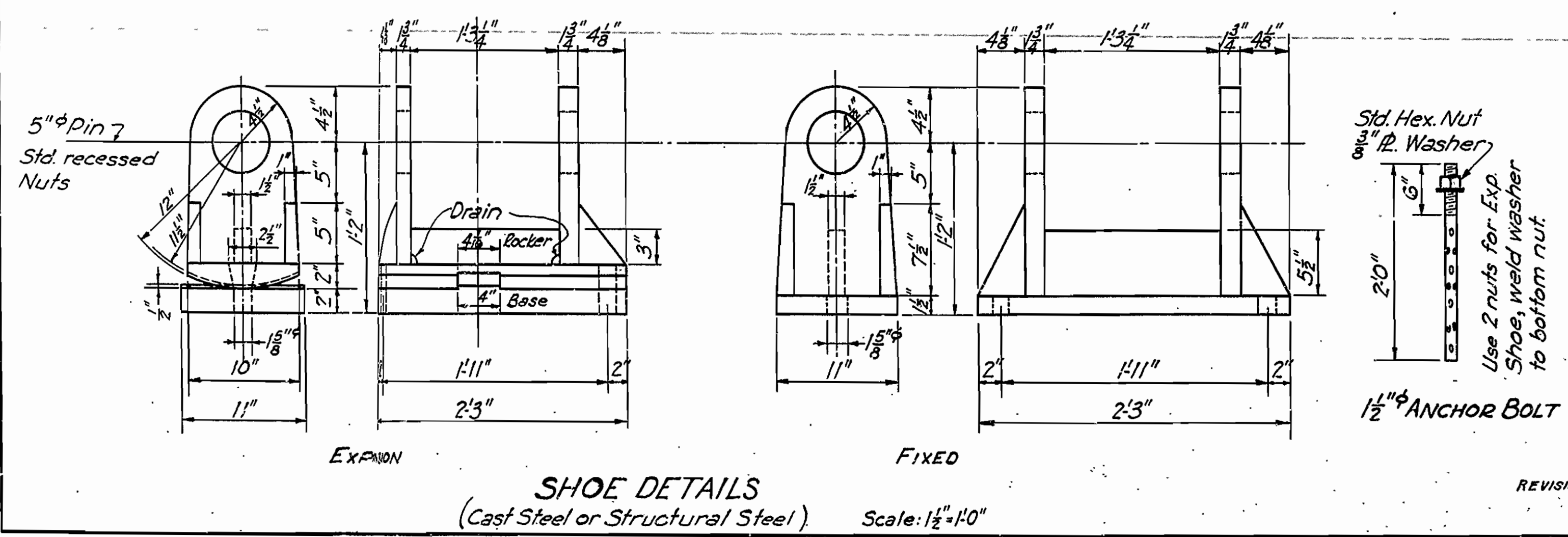
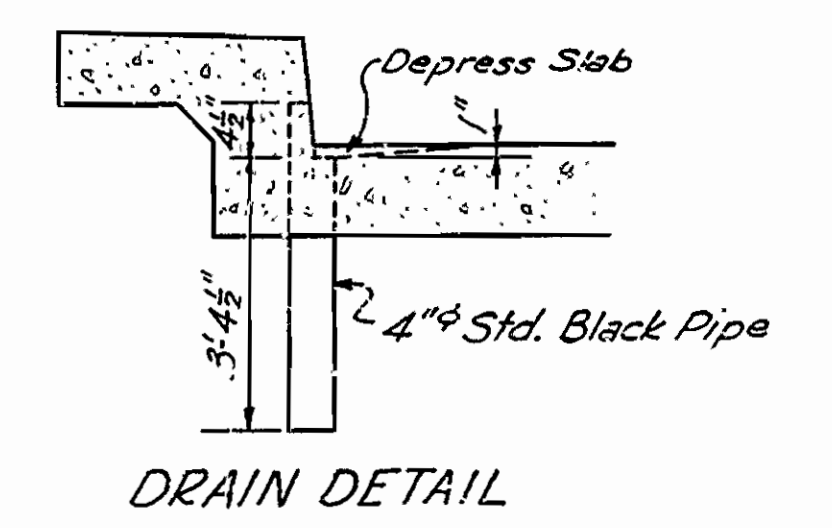
Shapes of equal or greater strength may be substituted for structural shapes shown but payment will be made in accordance with sizes shown on this plan, or on the substituted section if of less weight. Shop drawings shall be made in compliance with specifications, submitted and approved before fabrication is begun.

Drains, shoes and anchor bolts will be paid for at the unit price bid for "Structural Steel in Truss Span."

Truss shall be cambered to fit vertical curve shown on Layout Sheet, in addition to that required for dead load deflection.

Design Specifications: 1941 A.A.S.H.O. Unit Stresses: $f_s = 18,000 \text{ psi}$, $f_c = 10,000 \text{ psi}$, $n = 10$. H-20 Loading.

Construction Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted March 1, 1940.



REVISIONS: Reinforcing Steel, 12-13-45, W.C.H.
 Field Paint, 12-17-45, H.B.
 Wt. of members, W.C.H. 10-31-46.

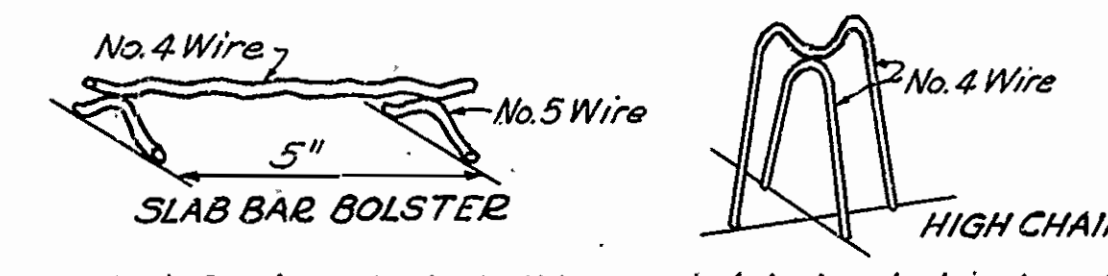
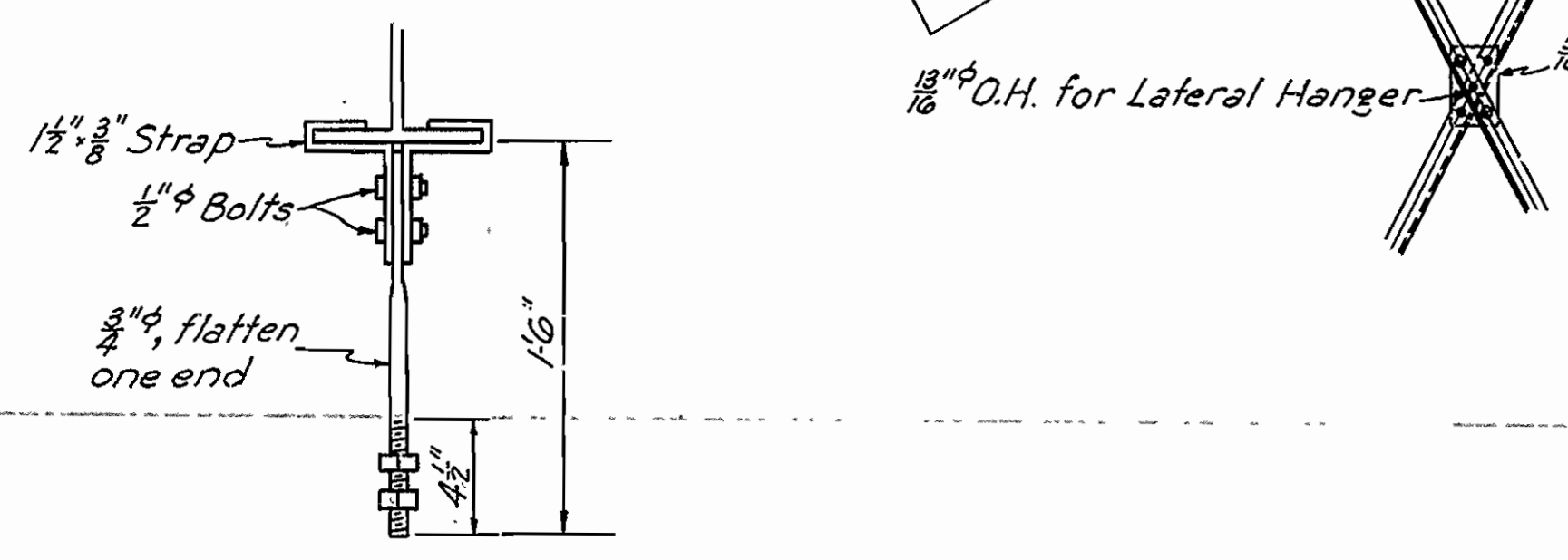
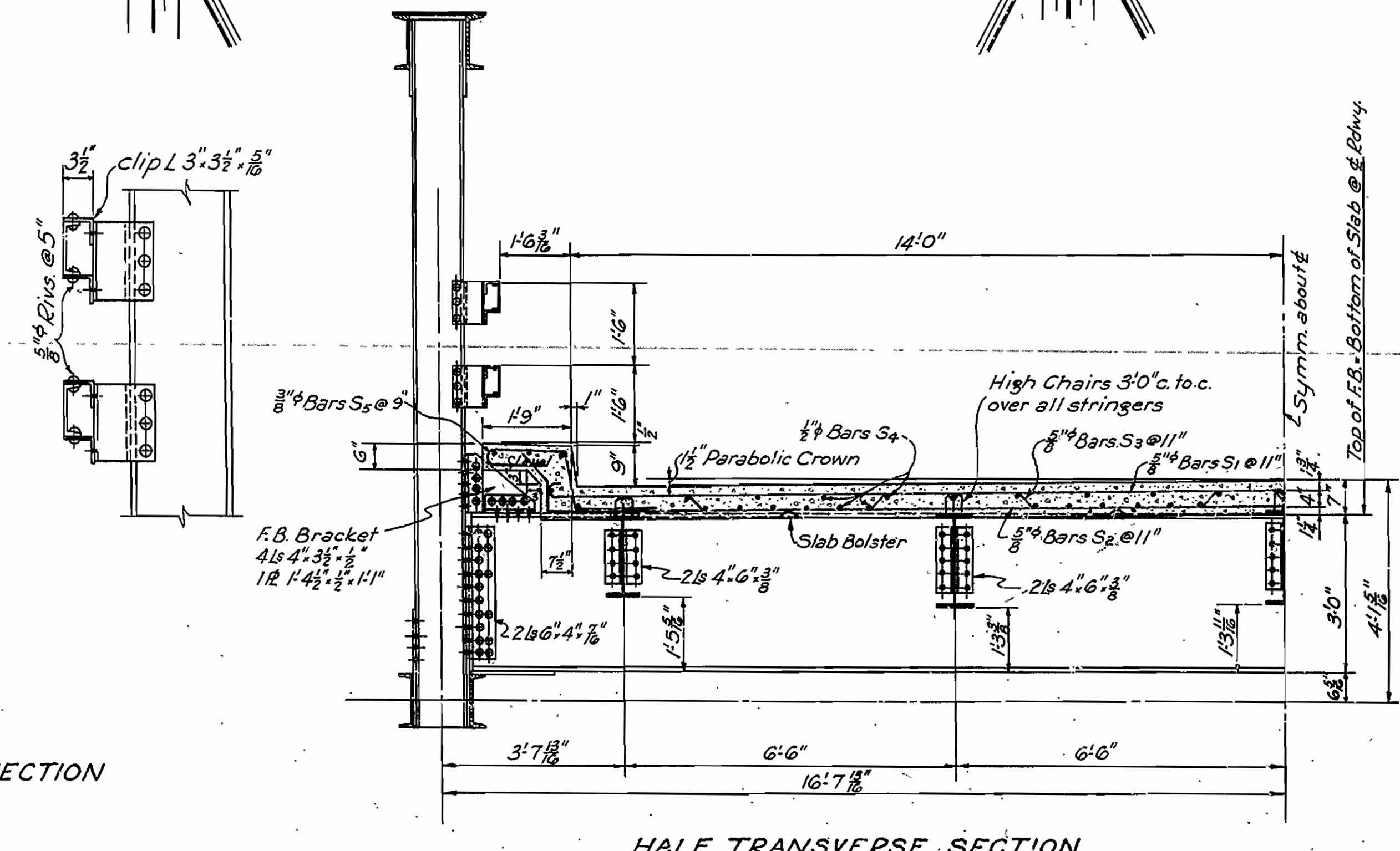
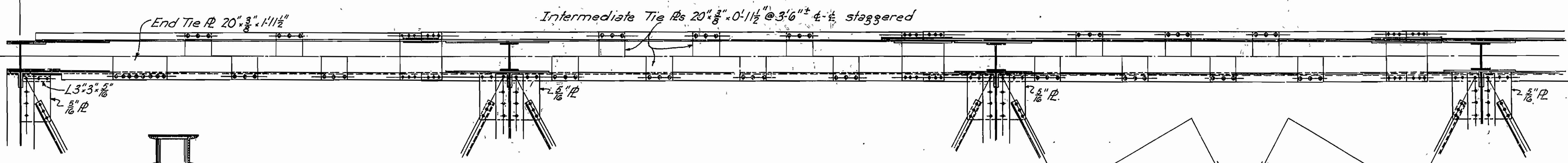
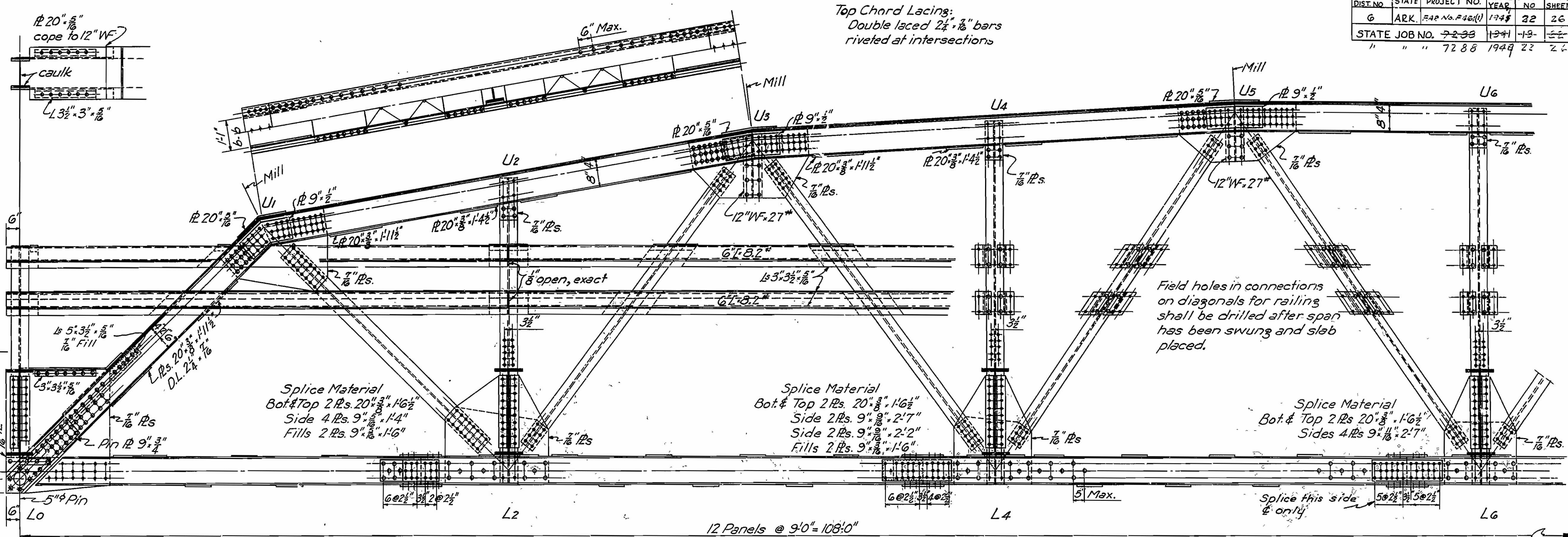
108'-0" LOW TRUSS SPAN
 28'-0" ROADWAY 16" SIDEWALKS
 Sheet 1 of 2
 ROUTE SEC.
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: E.B.S. Date: 8-20-41
 Traced By: E.B.S. Date: 8-25-41
 Checked By: Date:
 BRIDGE NO. DRAWING NO. 5461
 Scale: As noted

E.B.S.
 PRINCIPAL CIVIL ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	440 No. 40(1)	1948	22	26
STATE JOB NO.		7288		1949	23
				1949	24

Top Chord Lacing:
Double laced 2 1/2" x 3/8" bars
riveted at intersections

Field holes in connections
on diagonals for railing
shall be drilled after span
has been swung and slab
placed.



All reinforcing steel shall be accurately located in the forms and firmly held in place by means of steel wire chair supports adequate to prevent displacement during the course of construction, and to keep the steel a proper distance from the forms. Bar supports are to be sufficient in number and sufficiently heavy to properly carry the steel they support. Wire sizes shall not be less than shown. Wire supports will not be paid for directly but will be considered as subsidiary to the item of "Reinforcing Steel." Shop lists and diagrams must be submitted for approval.

REVISIONS: Reinforcing Steel.
12-13-45 W.C.H.
Wt. of 12" WF diaphragms, W.C.H. 10-31-46.

108'-0" LOW TRUSS SPAN
28'-0" ROADWAY 1'-6" SIDEWALKS
Sheet 2 of 2

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: E.B.S. Date: 8-10-41
Traced By: E.B.S. Date: 8-27-41
Checked By: Date:
Scale: 1/2" = 1'-0" and as noted
BRIDGE No. DRAWING No. 5461-A

