

FED. DIST. NO.	STATE	U. S. P. W. H. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	NRH 365-A(1933)	1937	1	19
JOB NO 5212					

STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

**PLAN OF PROPOSED BRIDGE
OVER LITTLE RED RIVER
HEBER SPRINGS - BATESVILLE ROAD
CLEBURNE COUNTY
ROUTE 25. SEC. 3.
JOB NO 5212**

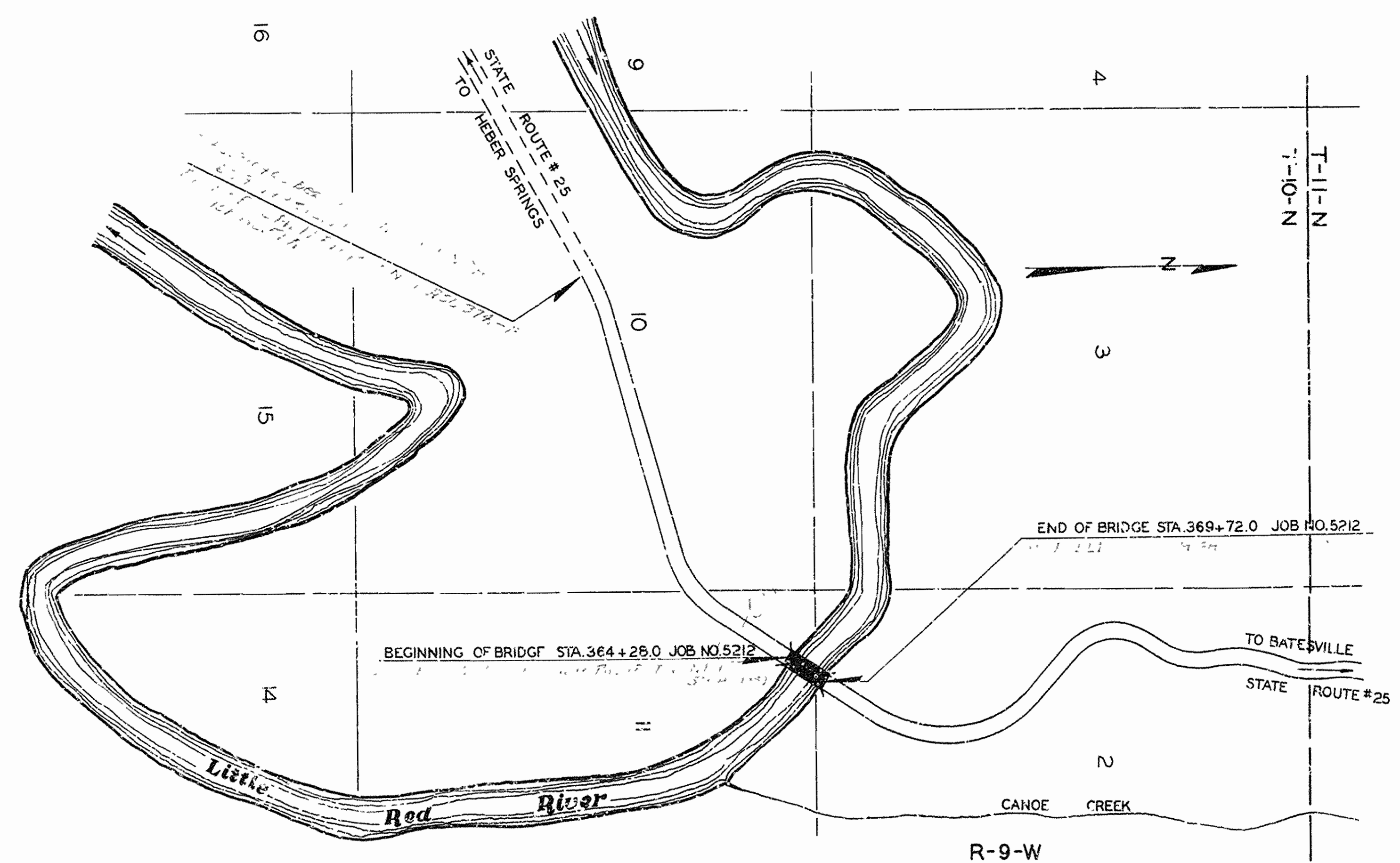
U.S. PUBLIC WORKS HIGHWAY PROJECT NO. NRH 365-A(1933)

INDEX OF SHEETS

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1.	4717	Title
2.	4718	Schedule of Quantities
3.	4719	Layout of Bridge over Little Red River
4.	4720	Stress Sheet
5.	4721	Selection of Members, Erection Stresses
6.	4722	Details of Cantilever Truss Span
7.	4723	Details of Cantilever Truss Span
8.	4724	Details of Cantilever Truss Span
9.	4725	Details of Suspended Truss Span
10.	4726	Details of Suspended Truss Span
11.	4727	Typical Deck Sections & Handrail Details
12.	4728	Details of Cross Frames
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14.	4730	Detail of Shoes
15.	4731	Details Abutment No. 1
16.	4732	Details Piers No. 1 & 2
17.	4733	Details Abutment No. 2
18.	2397	Project Markers, R/W Markers, & Bridge Name Plates
19.	1891	Basis for Computing Excavation for Structures

QUANTITIES

ITEM NO.	ITEM	QUANTITY	UNIT
103	Dry Excavation For Structures	597	Cu. Yds.
103	Wet Excavation For Structures	102	Cu. Yds.
103	Solid Rock Excavation For Structures	258	Cu. Yds.
SR-802	Class A Concrete for Bridges	6381	Cu. Yds.
SR-802	Class S Concrete for Bridges	3617	Cu. Yds.
603	Reinforcing Steel	163,280	Lbs.
804	Concrete Piling	772	Lin. Ft.
805	Concrete Railing	25	Lin. Ft.
807	Structural Steel in Truss Spans	720,935	Lbs.
SR-8502	State Bridge Name Plates	2	Each



Arkansas State Highway Commission
Standard Specifications for Road
and Bridge Construction Adopted
June 30, 1936

- Pamphlets**
- Division I
 - Division II Part I
 - Division II Part B
 - Division II Part Bb
 - Division III
 - Division IV

SPECIAL PROVISIONS

Item	No. of Sheets	Reference
Required Special Provisions	12 (Approved)	9-30-36
Employment Centers for Labor	1	10-19-36
Partial Payments	1	9-15-36
Wages of Labor	1	4-19-35
Special Freight Rates	1	1-27-37
7-2 Unemployment Compensation or Insurance	1	1-4-37
Coordination of Work	2	
8504 Engineers Field Office	1	8-22-36
8534 Machine Mixing	1	9-9-36
5502 Project Marker Plates and State Bridge Name Plates	1	9-9-36

LAYOUT
Scale: 1"=1000'

LENGTH OF PROJECT =	544'	= .103 MILES
LENGTH OF BRIDGES =	544'	= .103 MILES
LENGTH OF EMBANKMENT =	000'	= 0.000 MILES
LENGTH OF JOB =	544'	= .103 MILES

APPROVED [Signature]
CHIEF ENGINEER - U. S. DEPT. OF PUBLIC WORKS

APPROVED [Signature]
DISTRICT ENGINEER

APPROVED [Signature]
CHIEF

APPROVED [Signature]
CHAIRMAN - STATE HIGHWAY COMMISSION

APPROVED [Signature]
STATE HIGHWAY ENGINEER

W. B. Barrow
BRIDGE ENGINEER

BRIDGES NO. 2042

DRAWING NO. 4717

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	2042	1937	3	82
STATE JOB NO. 5212					

SCHEDULE BRIDGE QUANTITIES

ITEM UNIT OF BRIDGE	ITEM NO.	103	103	103	SP&802	SP&802	803	804	805	807	S.P-950-2
	UNIT	CU.YD.	CU.YD.	CU.YD.	CU.YD.	CU.YD.	LBS.	LIN.FT.	LIN.FT.	L.B.	EACH
CANTILEVER TRUSS SPAN NO. 1						140.56	38,215			280,865	
SUSPENDED TRUSS SPAN NO. 2						80.58	21,850			158,404	
CANTILEVER TRUSS SPAN NO. 3						140.56	38,215			281,226	
ABUTMENT NO. 1		134	0	0	129.60		17,070	772	12.50	220	1
PIER NO. 1		0	34	100	167.36		11,120				
PIER NO. 2		0	68	112	176.42		11,560				
ABUTMENT NO. 2		463	0	46	164.72		25,250		12.50	220	1
TOTALS		597	102	258	638.1	361.7	163,280	772	25	* 720,935	2

* INCLUDES 11,400* FOR WT. OF TRUSS SHOES

SCHEDULE OF QUANTITIES
 BRIDGE OVER LITTLE RED RIVER
 AT CANOE CREEK CROSSING
 HEBER SPRINGS-BATESVILLE ROAD
 CLEBURNE COUNTY
 ROUTE 25 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

Drawn By: *B.D.* Date: *2/17/37*
 Traced By: *C.W.* Date: *2/18/37*
 Checked By: *J.* Date: _____

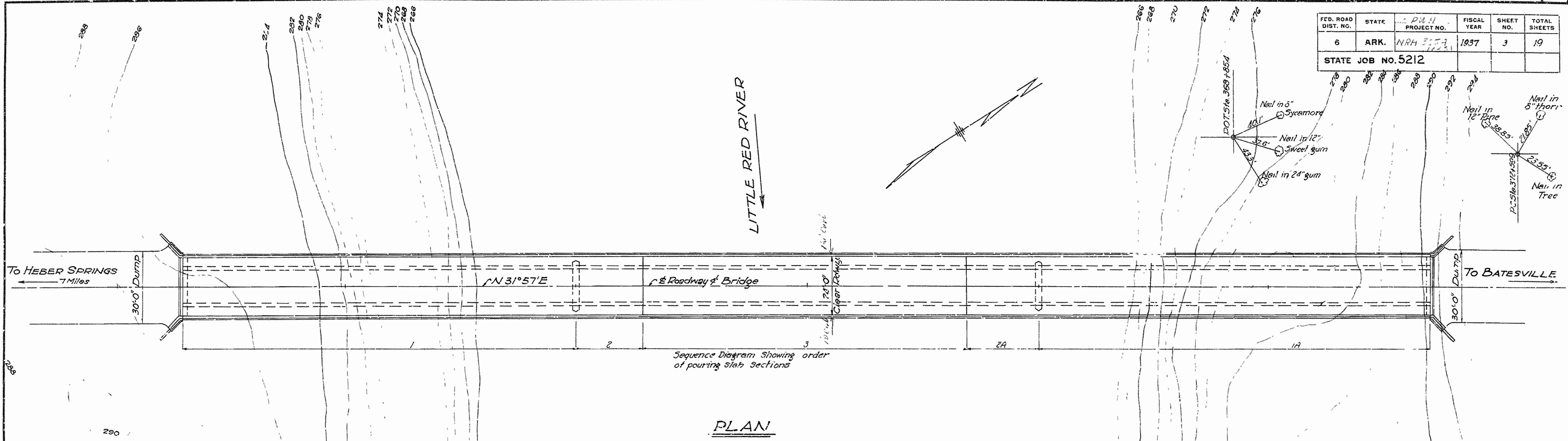
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M.B. Barrow
 BRIDGE ENGINEER

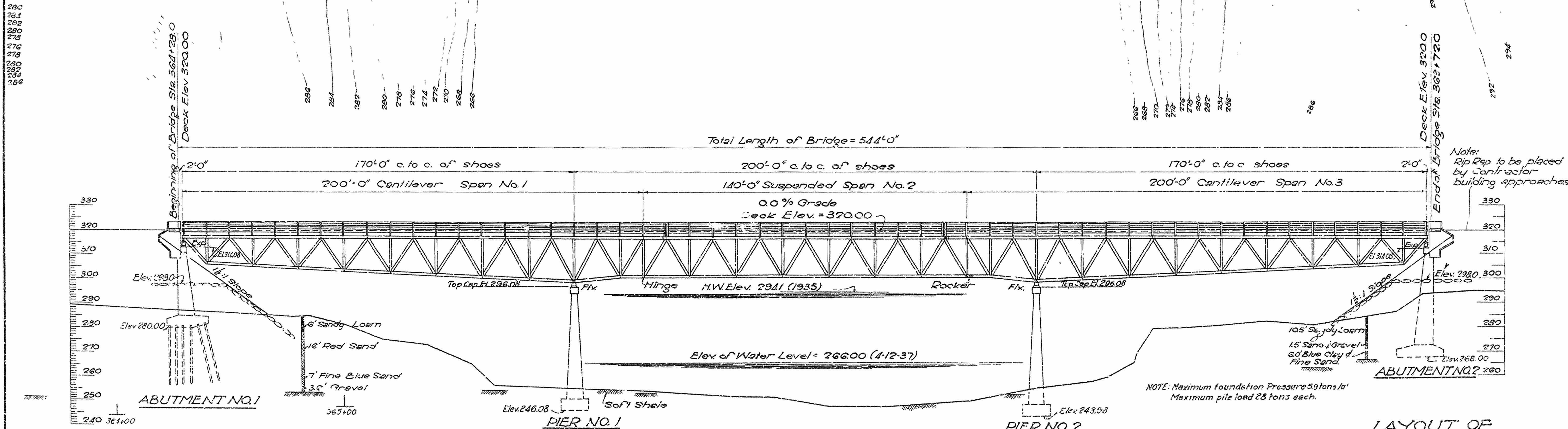
BRIDGE NO. 2042 DRAWING NO. 4718

FED. ROAD DIST. NO.	STATE	P.M.H. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	NRA 3173	1937	3	19

STATE JOB NO. 5212



PLAN



ELEVATION

Drainage Area = 1200 Sq Miles-Mountainous

GENERAL NOTES

All exposed corners to be chamfered 3" unless otherwise noted. Concrete in Piers and Abutments to be Class A. Concrete to be Class 5" in Deck. Reinforcing Steel to be deformed bars of Structural or Intermediate grade. Shop lists and loading diagrams must be submitted and approved before fabrication is begun.

In general all construction joints in Piers and Abutments shall be horizontal and shall be provided with keys six inches deep covering the middle third of both dimensions, unless otherwise noted.

Rock excavation shall be done to neat lines of concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting.

In order to expedite the project and to avoid, to a great extent, interference in the operation of the two contractors on the bridge and approaches, it will be required that the bridge contractor complete the Abutments as his first

operation in order to allow the contractor on the approaches to construct embankment and place rip rap.

Concrete deck slabs shall be placed in the order indicated on the sequence diagram, and each section shall be poured so that the load is kept symmetrical about the center line of span, unless otherwise directed by the Engineer.

Any approved method of erection of truss spans proposed by the contractor may be substituted for procedure for cantilever erection as outlined on Drawg. No. 4721. Consideration will be given to alterations desired by the contractor in the letter.

Rip Rap to be furnished and placed under Job No. 6185.

B.M. Elev. 234.70. Nail inside 10' Hackberry Stump. 200' Lt. of Sta. 364+85.

B.M. Elev. 294.87. Nail in root of 24' Red Oak 175' Lt. Sta. 369+70

LAYOUT OF
BRIDGE OVER LITTLE RED RIVER
AT CANOE CREEK CROSSING
HEBER SPRINGS-BATESVILLE ROAD
CLEBURNE COUNTY
ROUTE 25 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: M.C. BANNER Date: 5-25-36
Traced By: B.D. Date: 5-27-36
Checked By: _____ Date: _____

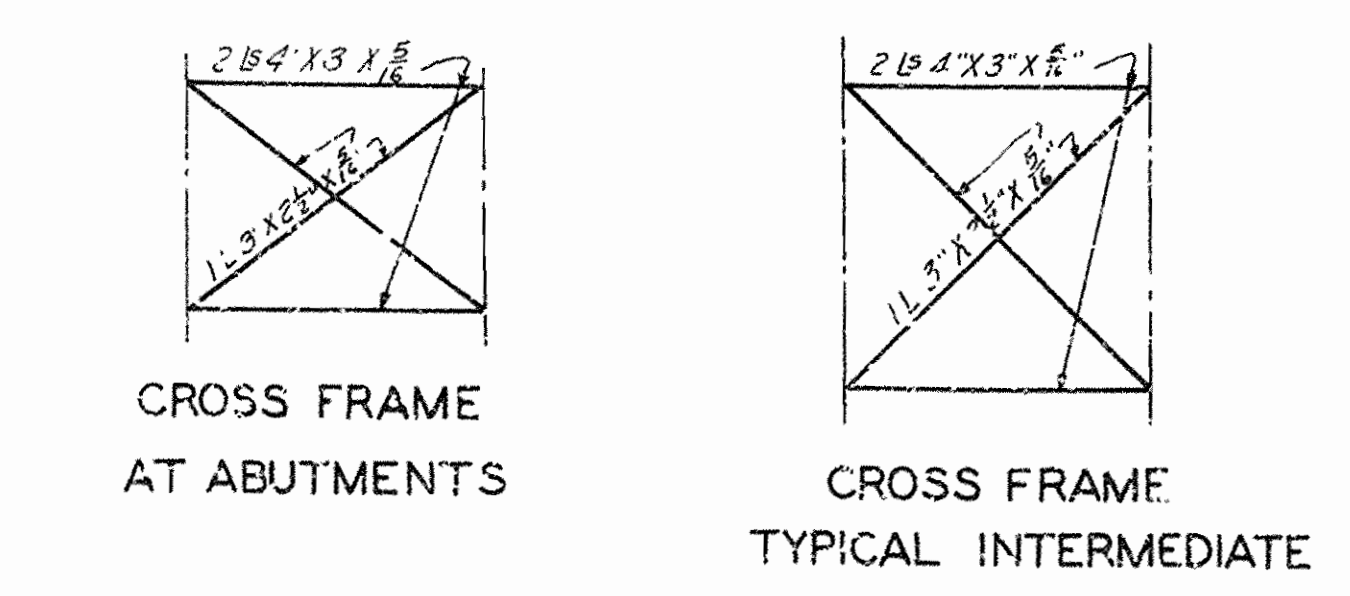
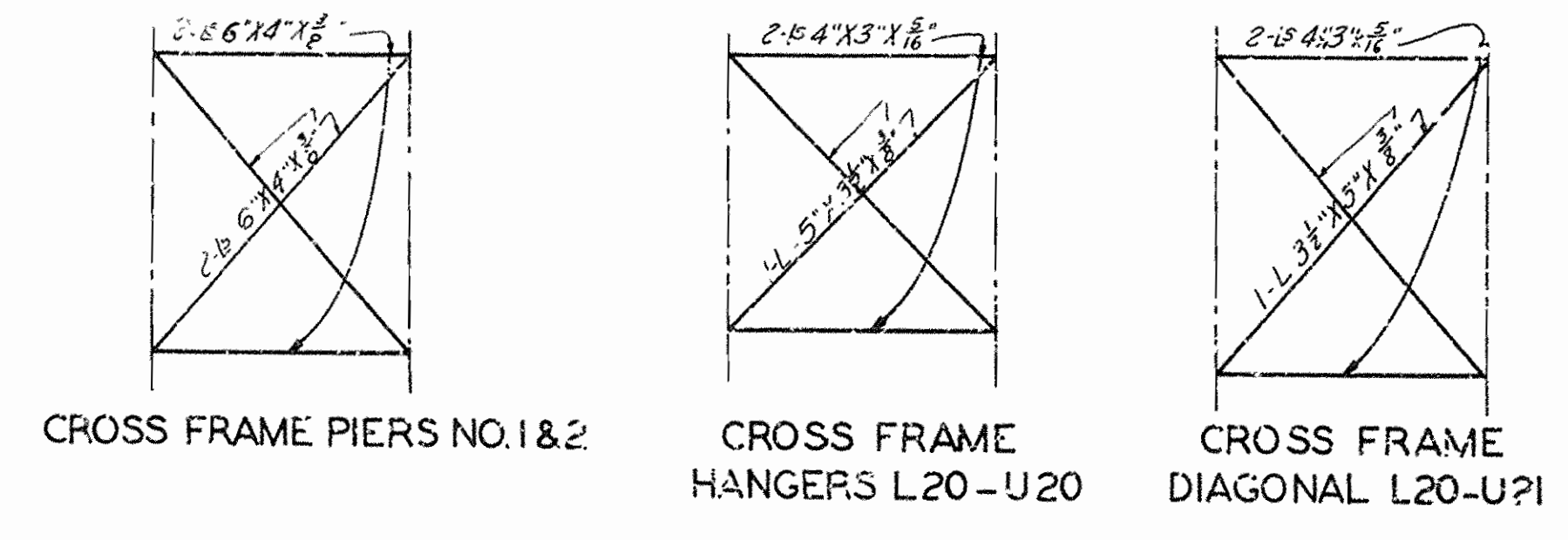
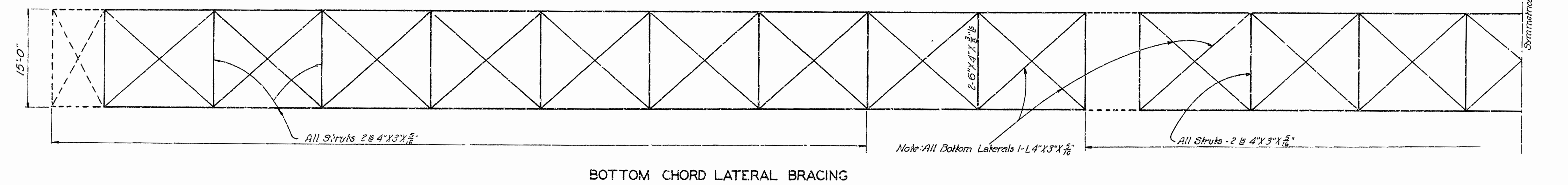
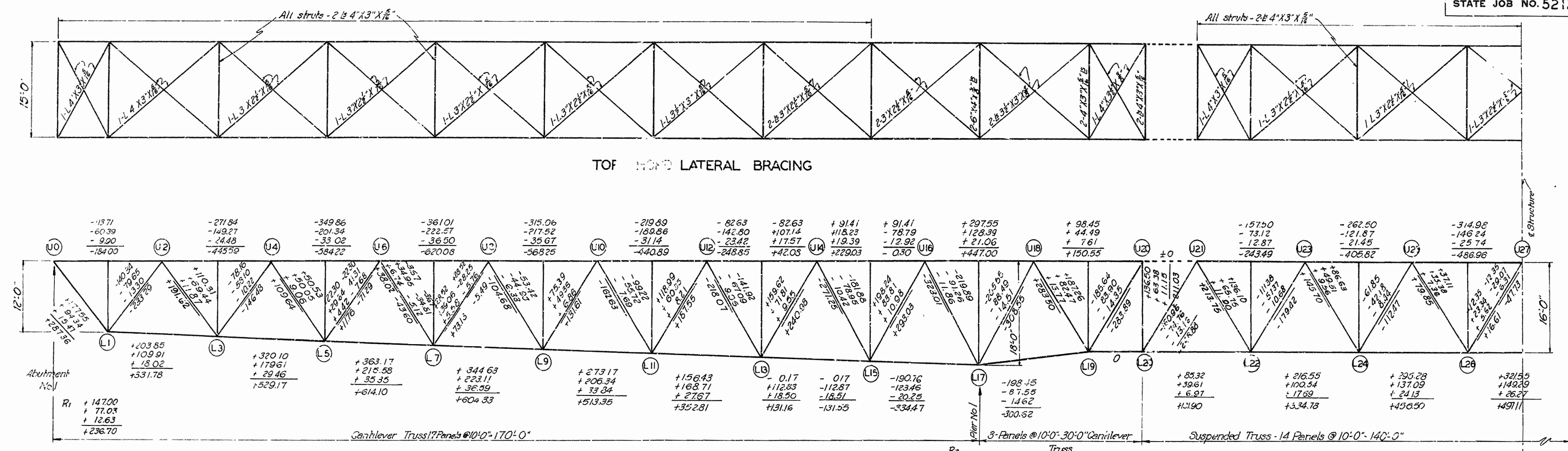
BRIDGE NO. 2042 DRAWING NO. 4719

Scale: 1 in. = 20 ft.

M.C. Banner
BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	2042	1937	4	19

STATE JOB NO. 5212



FLOOR BEAM DATA

	Positive	Negative
Dead Load Moment	82,300"	10,520"
Live Load Moment + 30% Impact Moment	1,23,200"	561,600"
Total	1,20,500"	682,420"
S.M. Required	670	490
Use 16" C.B. @ 45# S.M. = 72.4		

STRINGER DATA

Dead Load Moment	103,480"
Live Load Moment + 30% Impact Moment	781,590"
Total	885,040"
S.M. Required =	4917
Use 16" C.B. @ 36# S.M. = 56.3	

NOTE

All verticals with the exception of hanger location have the following stresses:

Dead Load	-21.00
Live Load	-33.15
Impact	-9.34
Total	-64.09

All stresses given in diagram are in the order given above in this note.

All stresses shown are in thousands of pounds

STRESS SHEET
 BRIDGE OVER LITTLE RED RIVER
 AT CANOE CREEK CROSSING
 HEBER SPRINGS-BATESVILLE ROAD

CLEBURNE COUNTY
 ROUTE 25 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

Drawn By: B.D. Date: 7-7-37
 Traced By: C.B.N. Date: 7-7-37
 Checked By: Date:

BRIDGE NO. 2042 DRAWING NO. 4720

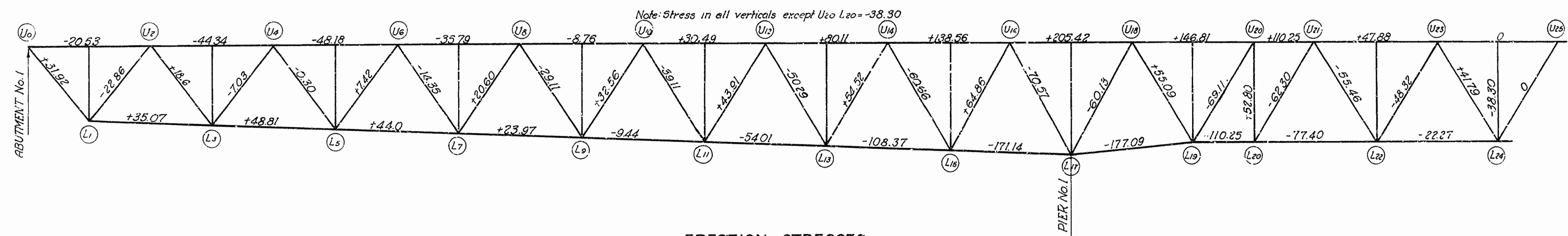
Scale: _____ in. _____ ft.

N. B. Barber
 BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.		1937	5	19
STATE JOB NO. 5212					

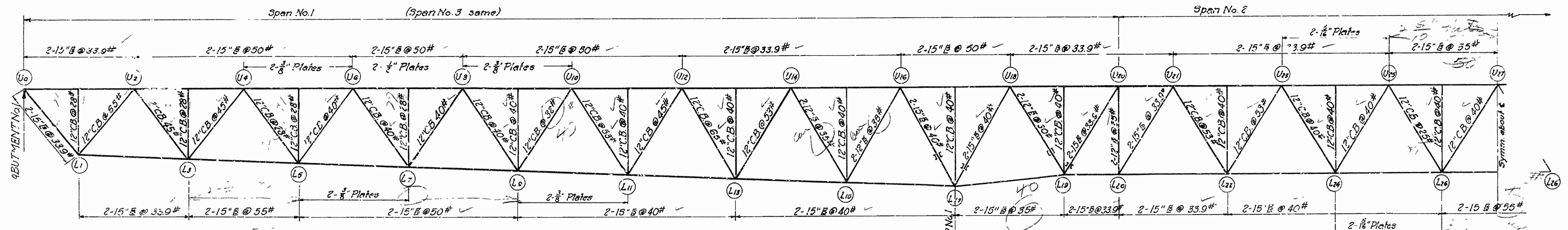
ERECTION PROCEDURE

1. Erect Span No. 1 on falsework to Pier No. 1.
2. Continue Span No. 1 and portion of Span No. 2 by cantilever erection to panel point U₂₅.
3. Erect Span No. 3 and portion of right half of Span No. 2 to U₂₅ by same procedure as given for Span 1, except Truss shall be blocked up 2" at Pier No. 2 to offset deflection caused by trawler.
4. Adjust gap between L₂₄ and L₂₅ and close bottom chord.
5. Fill in remaining web members adjust gap between U₂₅ and U₂₆.
6. Release members U₂₀-U₂₁, L₁₉-L₂₀, and U₂₀-U₂₁.



ERECTION STRESSES

Trawler at Point U₂₅



SELECTION OF MEMBERS

GENERAL NOTES

Floor Slab: All concrete in floor slab to be Class 'S'.

Rivets: In truss $\frac{3}{8}$ " in stringers, floorbeams, and lateral bracing $\frac{3}{4}$ ".

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.

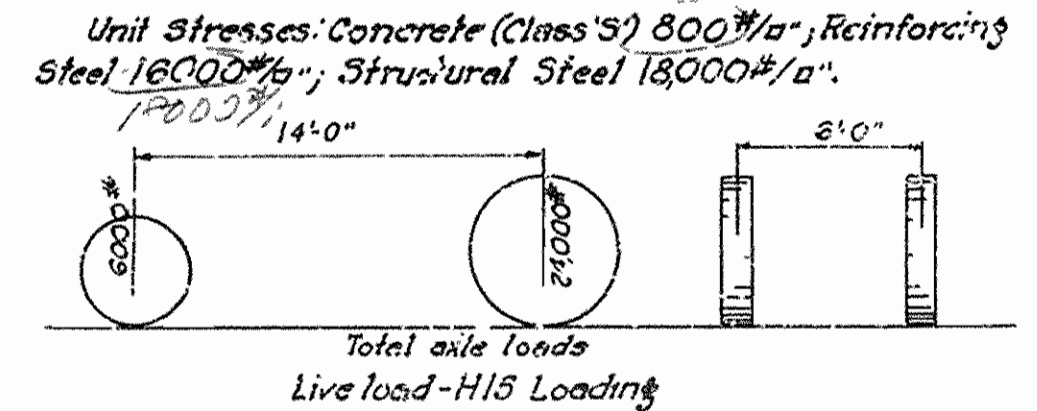
Shop Paint: All parts which come in contact shall be painted one coat of red lead and raw linseed oil, before they are riveted together. When assembled and after all shop work has been completed, all steel shall be given one coat of red lead and raw linseed oil before shipment.

Field Paint: 1st. coat white lead tinted with lamp black. 2nd. coat aluminum paint.

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

These drawings show general features of design only. Shop drawings shall be made in compliance with the specifications, submitted to the Bridge Engineer and approval secured before fabrication is begun.

Specifications: Arkansas Highway Commission Standard specifications for Road and Bridge, adopted June 30, 1936.



SELECTION OF MEMBERS, ERECTION STRESSES
ERECTION NOTES & GENERAL NOTES
BRIDGE OVER LITTLE RED RIVER
AT CANOE CREEK CROSSING
HEBER SPRINGS-BATESVILLE ROAD
CLIBURNE COUNTY
ROUTE 25 SEC. 3

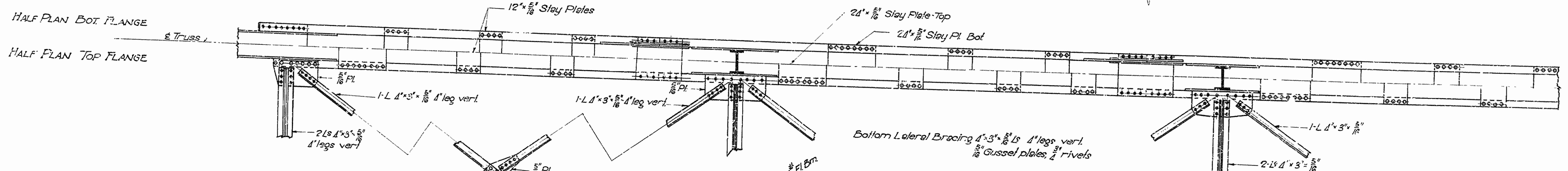
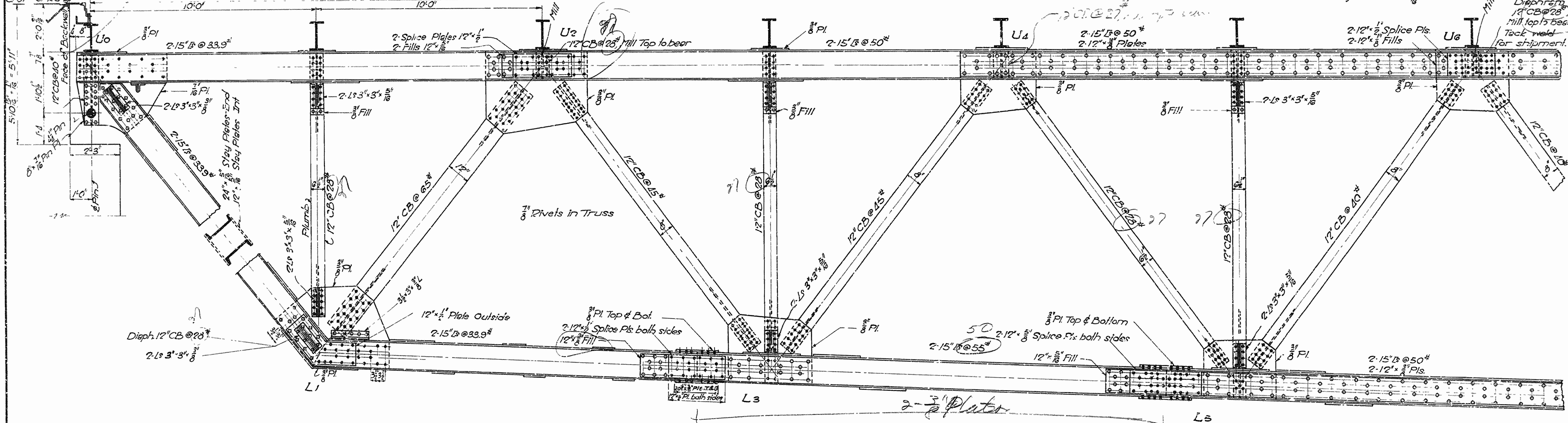
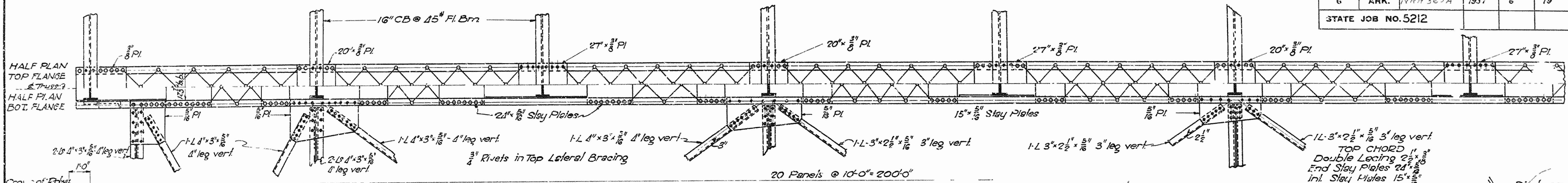
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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Traced By: C.B.y. Date: 7-27-27
Checked By: Date:
BRIDGE NO. 2042 DRAWING NC.4721

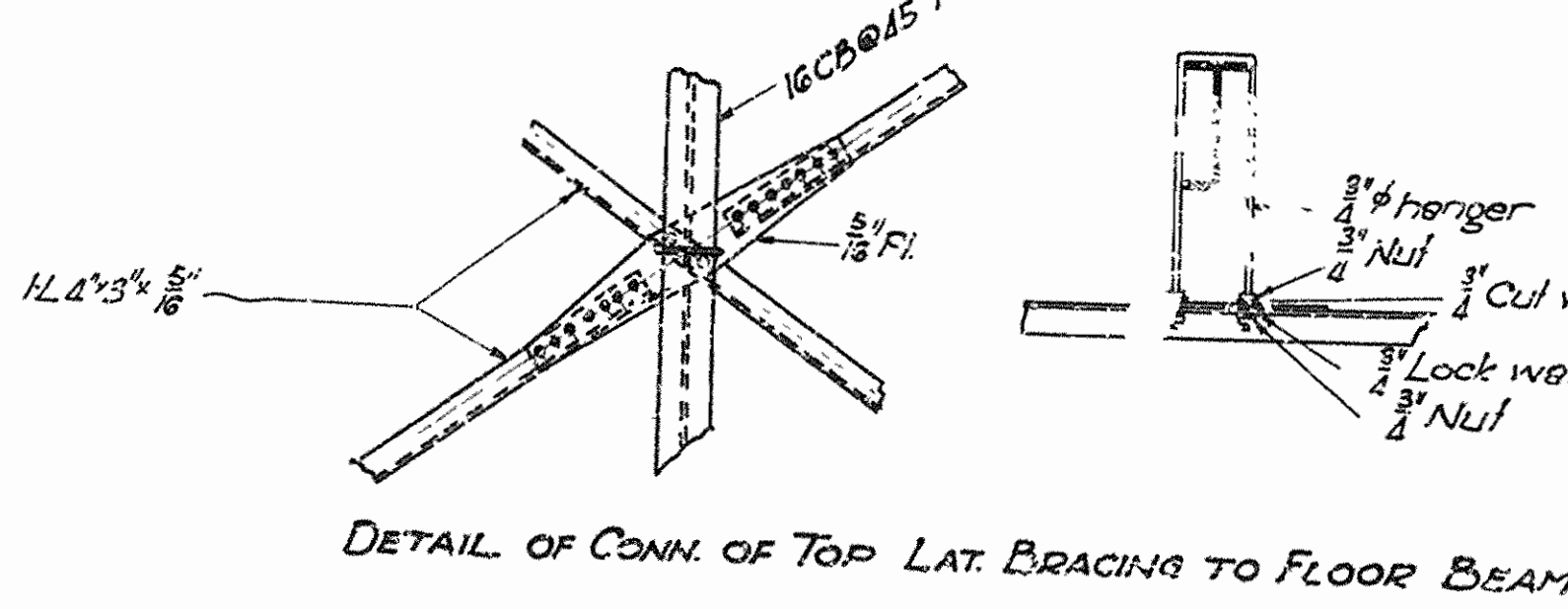
M.B. Lanier
BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
G	ARK.	NRH 369A	1937	6	19

STATE JOB NO. 5212



For Bottom Chord
End Stay Plates 21" x 5/8"
Int. Stay Plates 12" x 5/8"

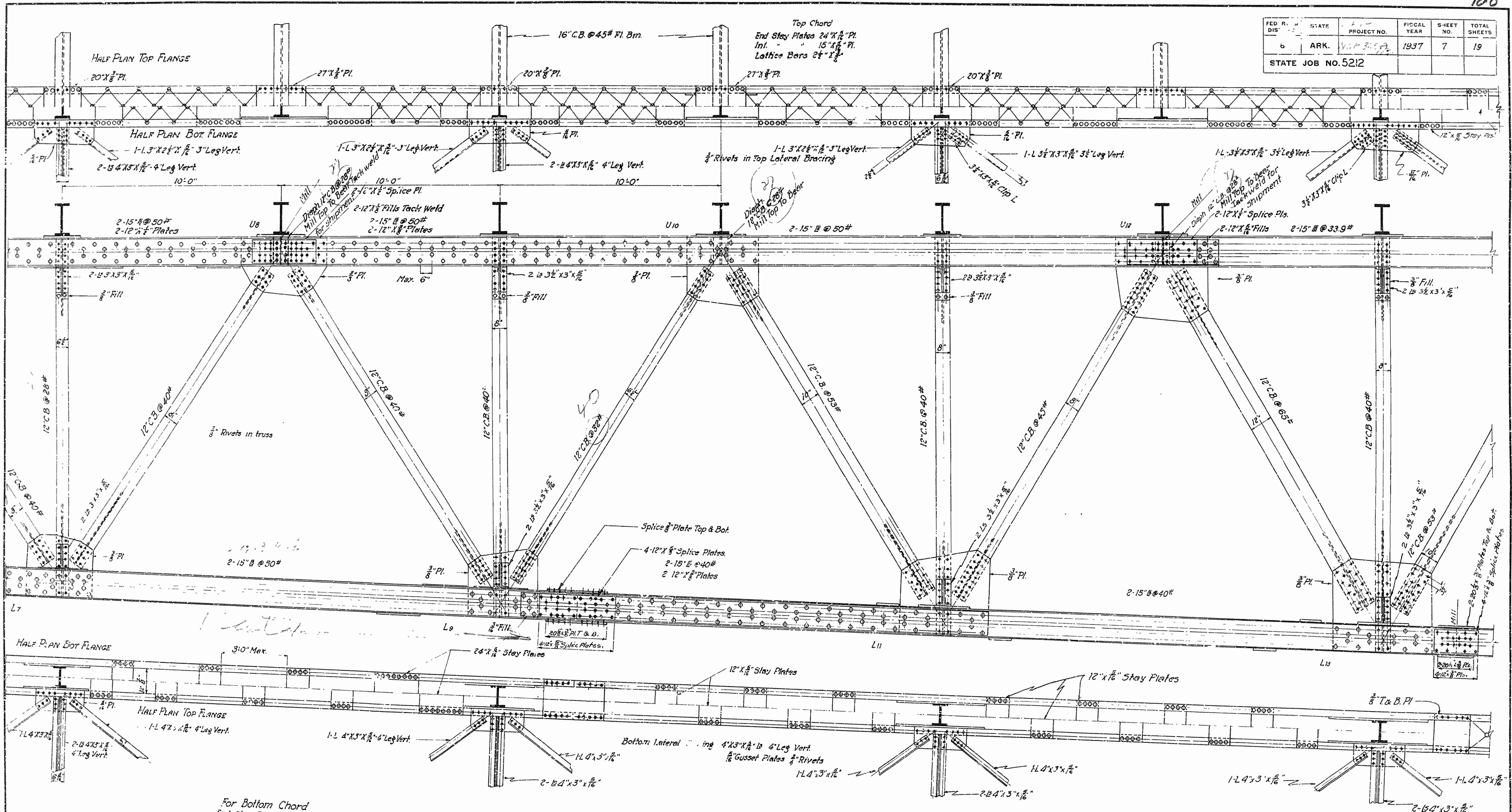


DETAILS OF CANTILEVER TRUSS SPAN
BRIDGE OVER LITTLER RIVER
AT CANOE CREEK CROSSING
HEBER SPRINGS-BATESVILLE ROAD
CLEBURNE COUNTY
ROUTE 25 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: L.A.M. Date: 7-20-37
Traced By: B.W.D. Date: 7-30-37
Checked By: _____ Date: _____
Scale: 1/2" = 10'-0"
BRIDGE NO. 2042 DRAWING NO. 4722

N.B. LAMON
BRIDGE ENGINEER

FED. DIST.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	VIA 3052	1937	7	19
STATE JOB NO. 5212					



For Bottom Chord
End Stay Plates 24"x 1/2"
Int. Stay Plates 12"x 1/2"
Lattice Bars 2"x 1/2"

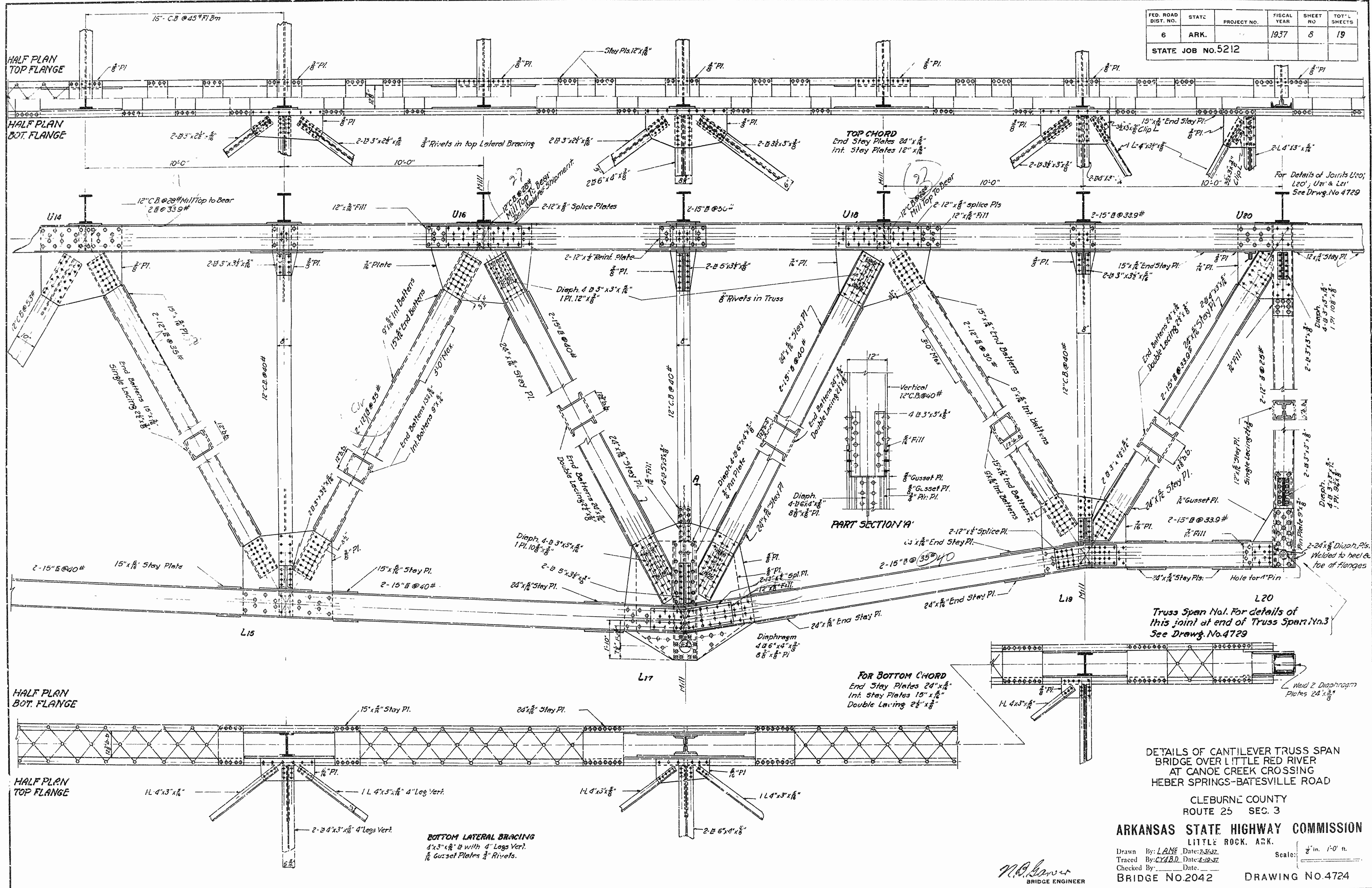
DETAILS OF CANTILEVER TRUSS SPAN
BRIDGE OVER LITTLE RED RIVER
AT CANOE CREEK CROSSING
HEBER SPRINGS-BATESVILLE ROAD
CLEBURNE COUNTY
ROUTE 25 SEC.3

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: L.A.M. Date: 7-23-37
Traced By: C.S. Date: 7-28-37
Checked By: O. Date: _____
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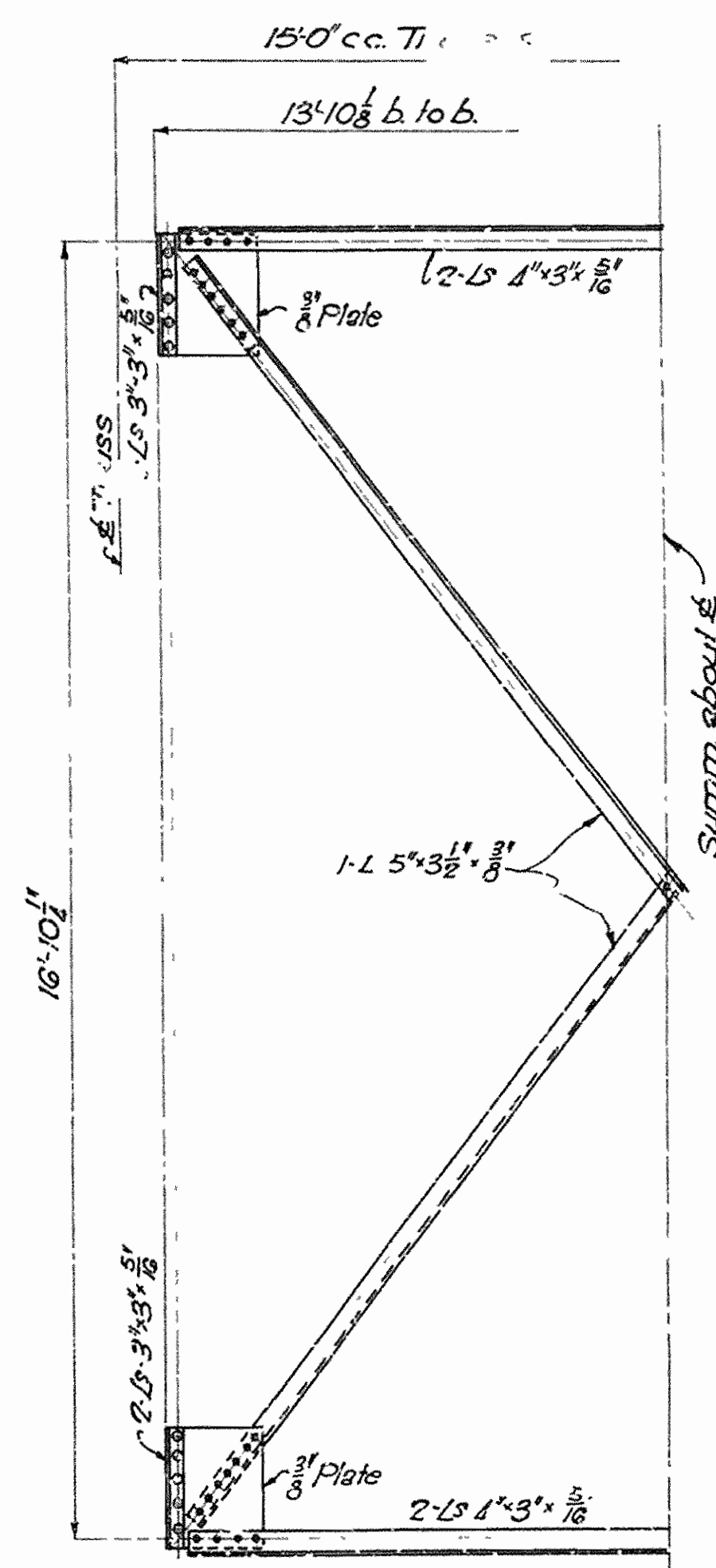
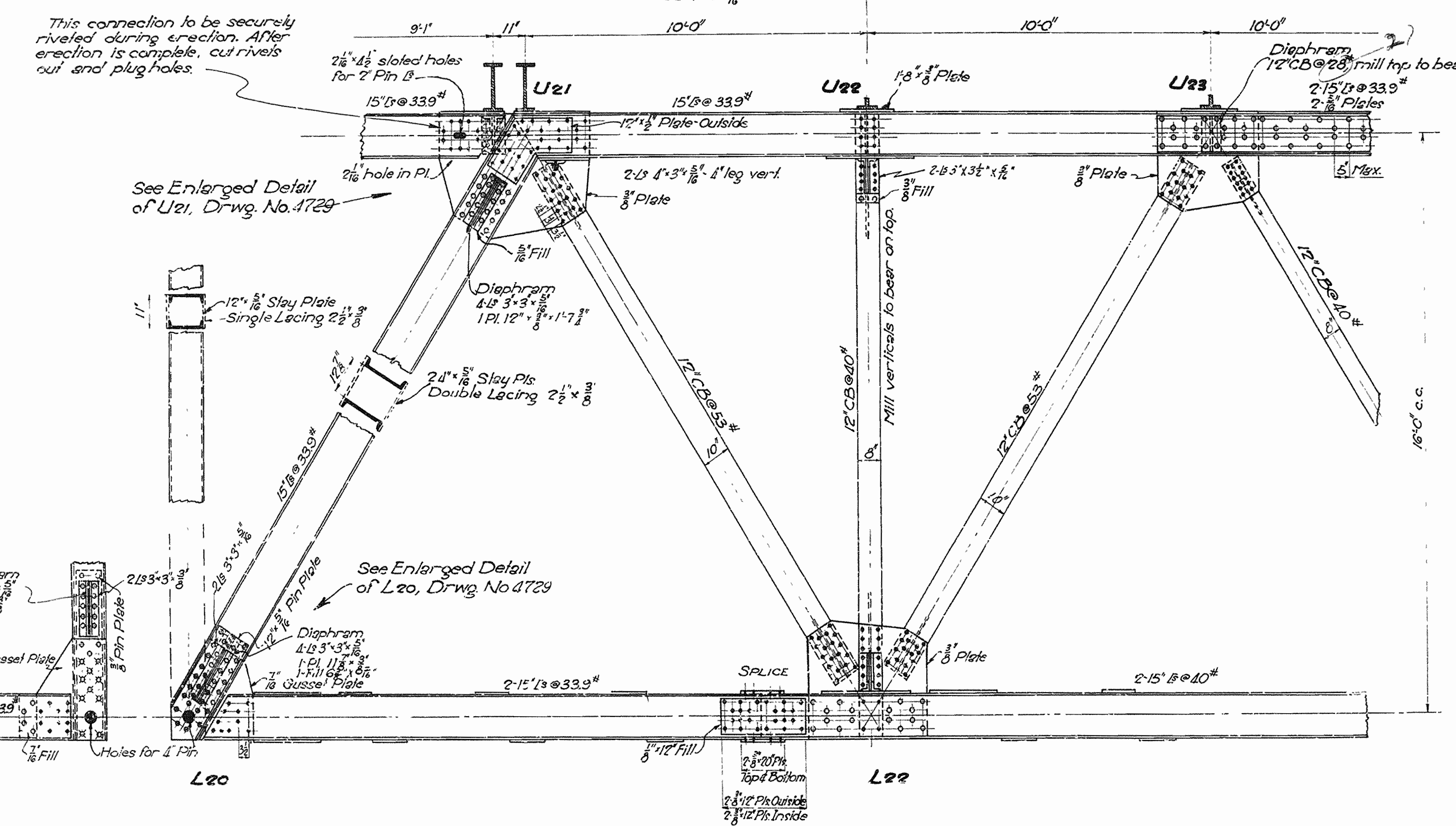
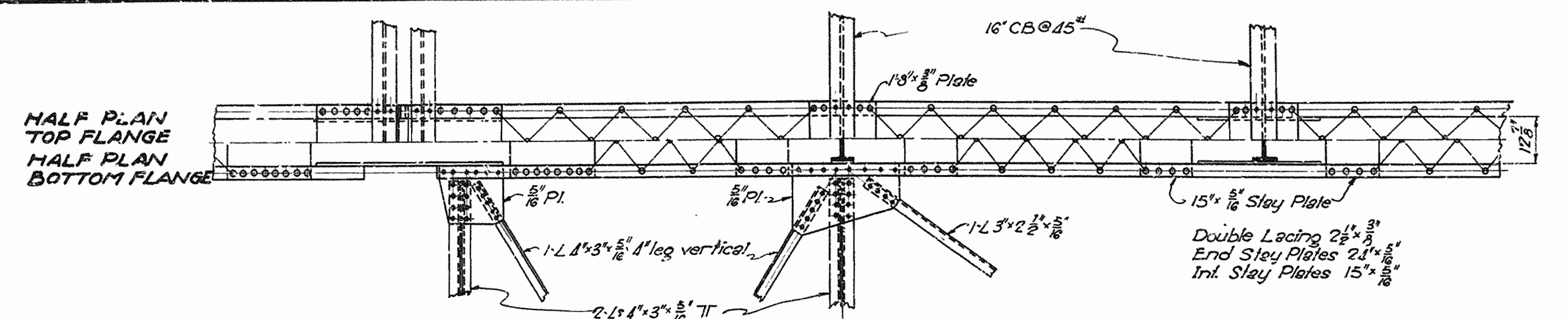
N.B. Lawrence
BRIDGE ENGINEER

BRIDGE NO. 2042 DRAWING NO. 4723

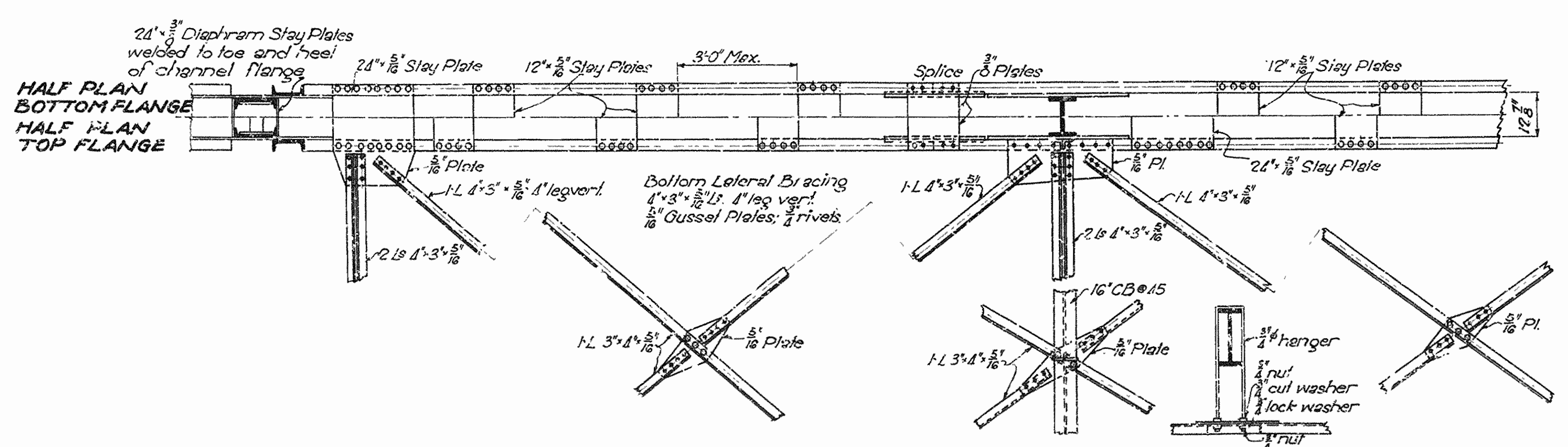
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6	ARK.		1937	8	19
STATE JOB NO. 5212					



FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	2042	1937	9	19
STATE JOB NO. 5212					



CROSS FRAME - L20-U21

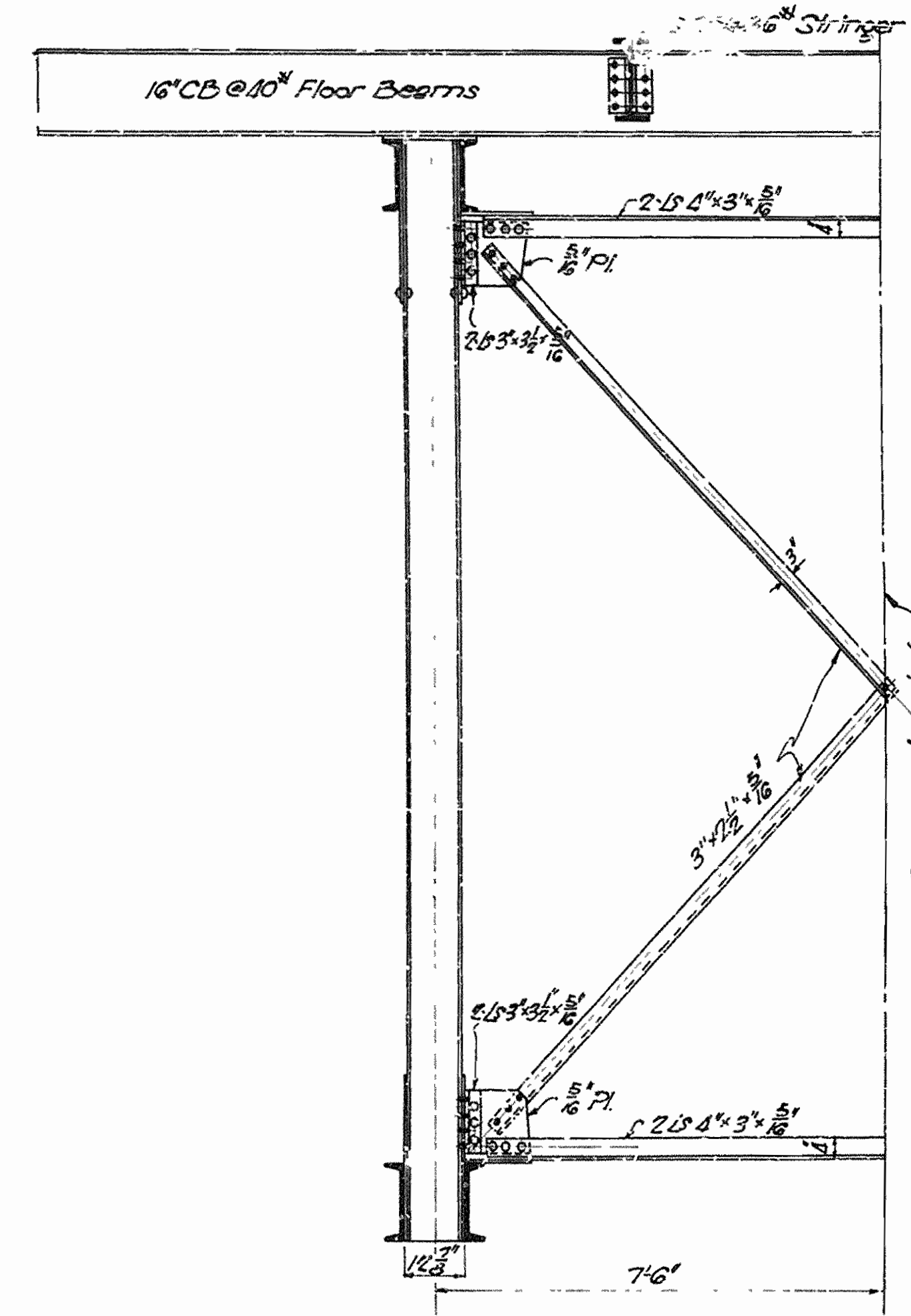
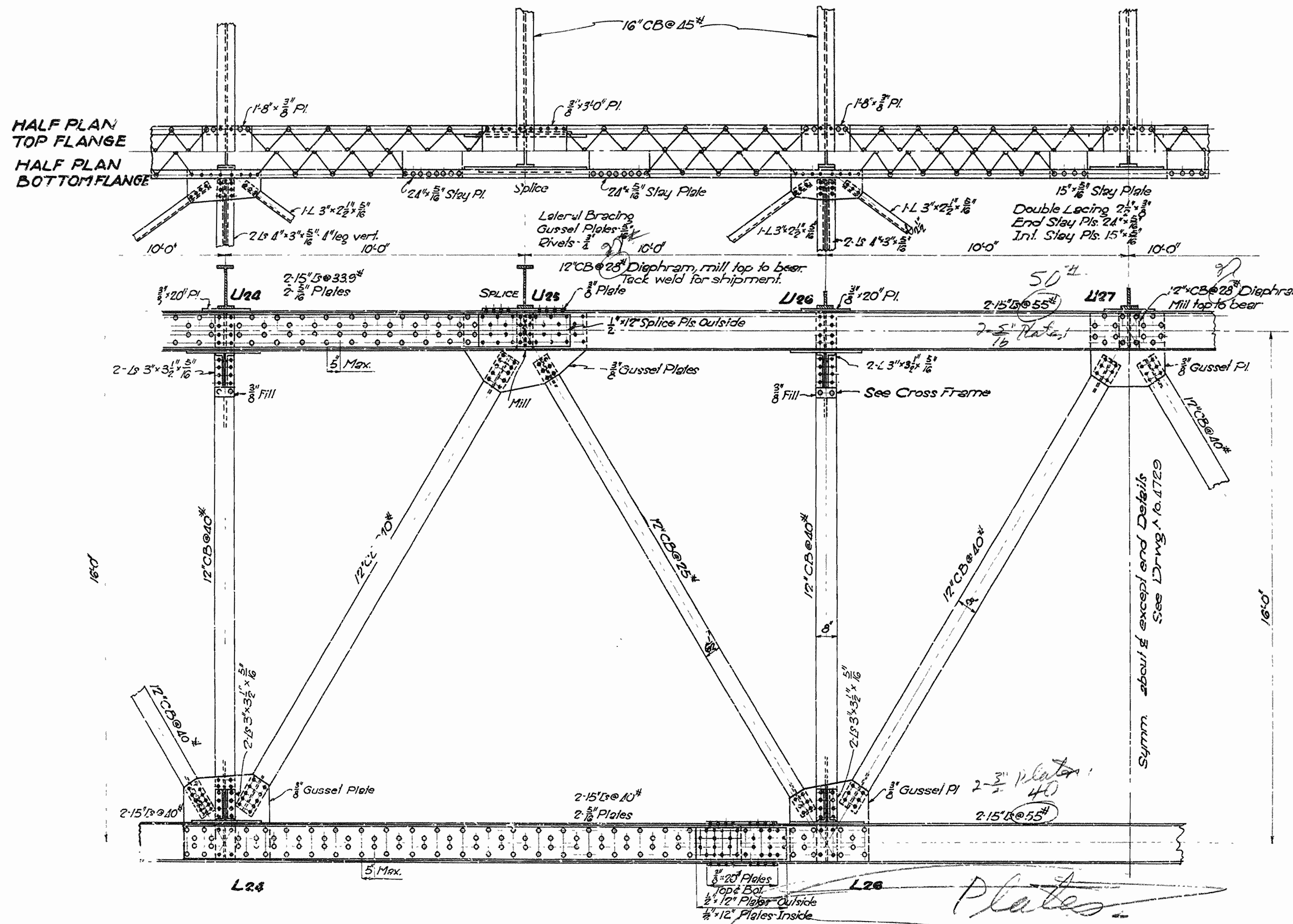


DETAIL OF CONNECTION - TOP LATERAL BRACING TO FLOOR BEAM

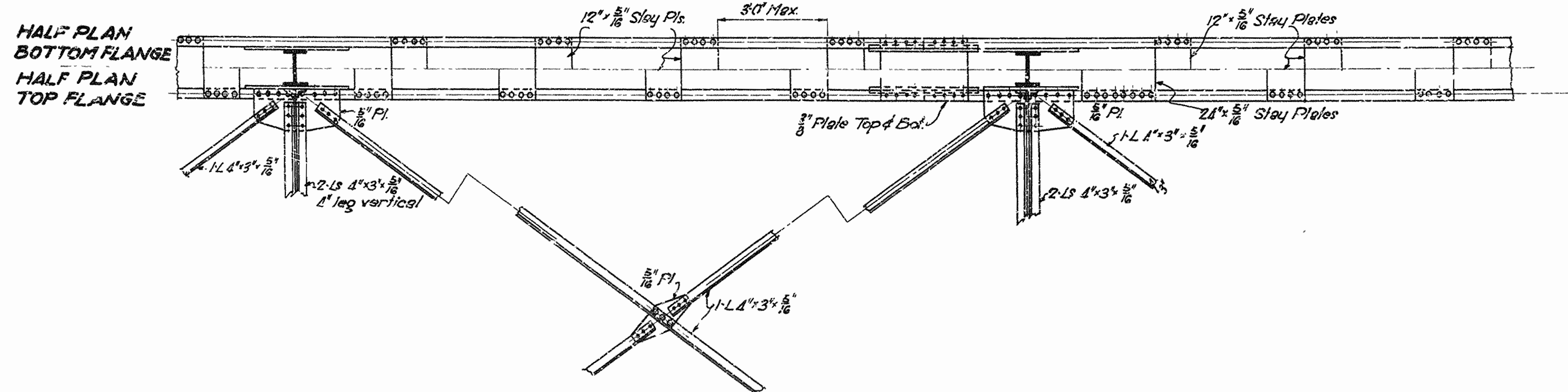
DETAIL OF SUSPENDED TRUSS
 SPAN NO. 2
 BRIDGE OVER LITTLE RED RIVER
 AT CANE CREEK CROSSING
 HEBER SPRINGS-BATESVILLE ROAD
 CLEBURNE COUNTY
 ROUTE 25 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: *B.W.D.* Date: 7-20-37
 Traced By: *B.W.D.* Date: 7-26-37
 Checked By: _____ Date: _____
 Scale: 1/2 in. = 1 ft.
 BRIDGE NO. 2042 DRAWING NO. 4725

M.B. Lanier
 BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	474	1937	10	19
STATE JOB NO. 5212					



DETAIL OF INTERMEDIATE CROSS FRAME



DETAIL OF SUSPENDED TRUSS
 SPAN NO. 2
 BRIDGE OVER LITTLE RED RIVER
 AT CANOE CREEK CROSSING
 HEBER SPRINGS-BATESVILLE ROAD
 CLEBURNE COUNTY
 R.C. 25 SEC. 3

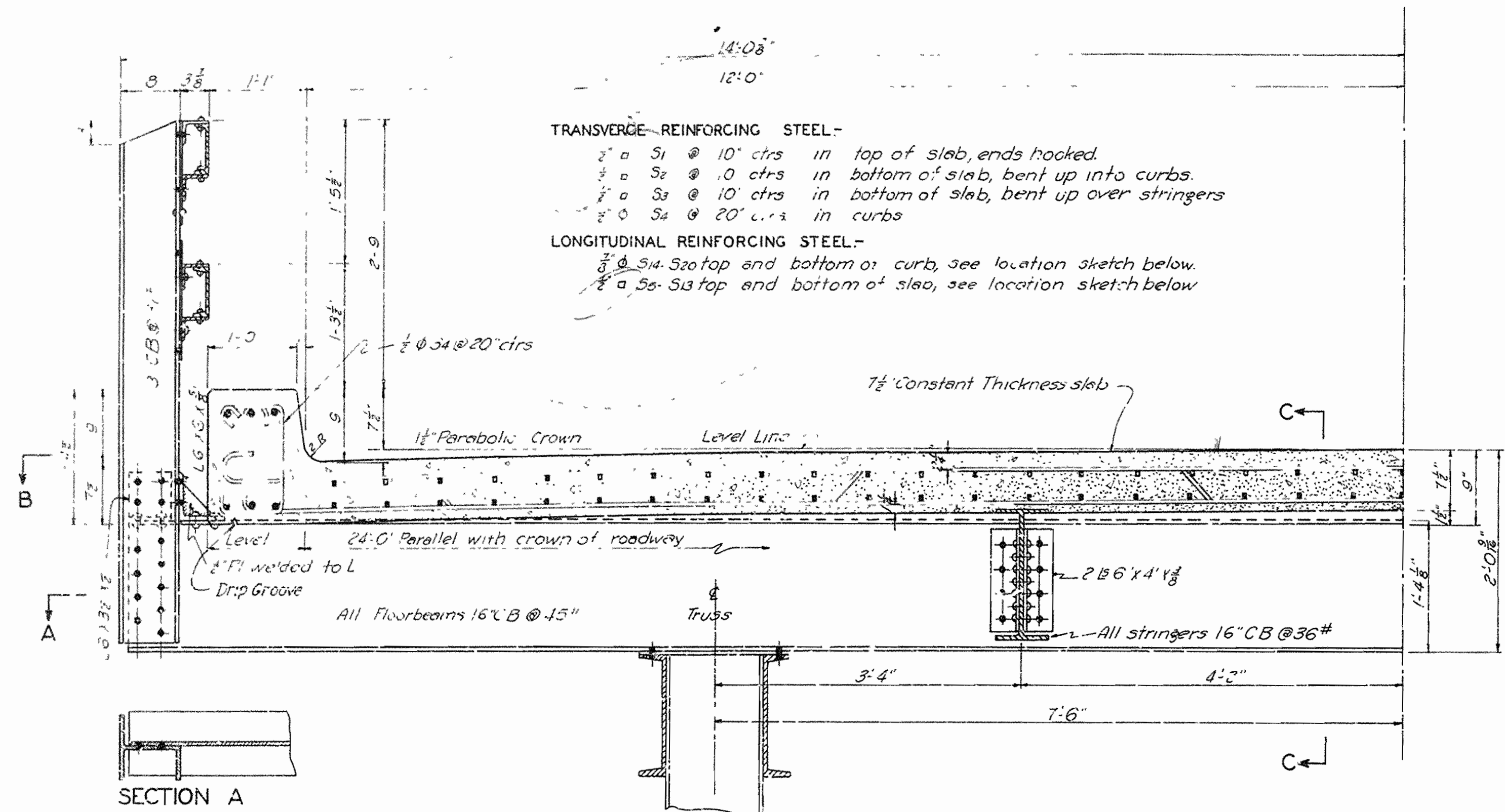
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

Drawn By: *AWD* Date: 7-23-37
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 Checked By: _____ Date: _____
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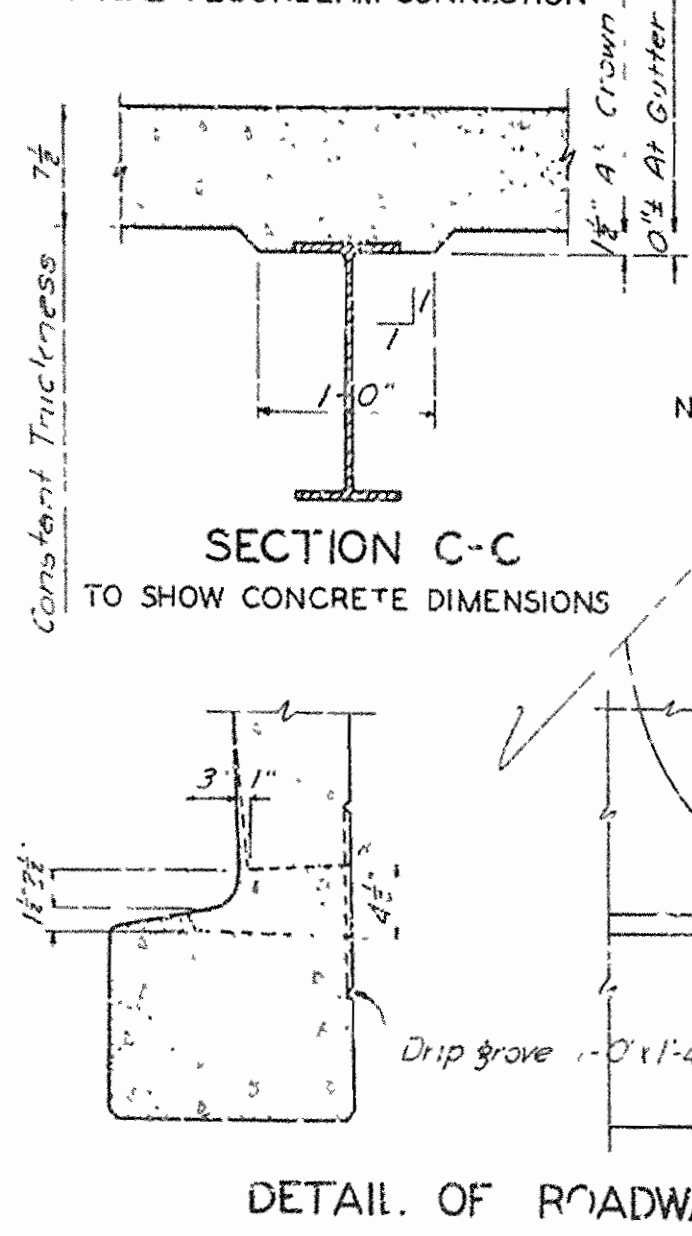
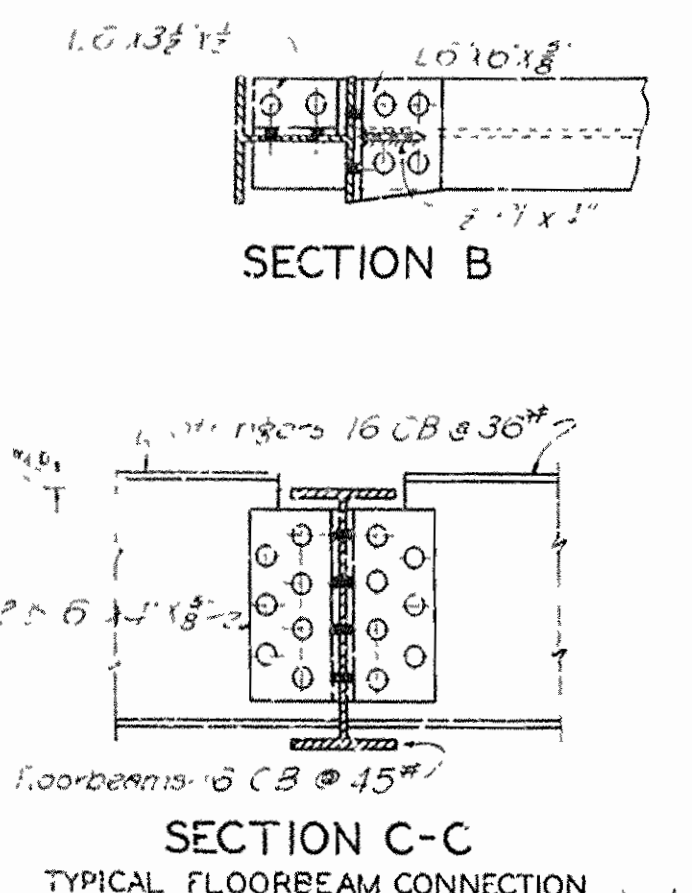
M.B. Hansen
 BRIDGE ENGINEER

Scale: 1/2 in. = 1 ft.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.		1937	11	19
STATE JOB NO. 5212					



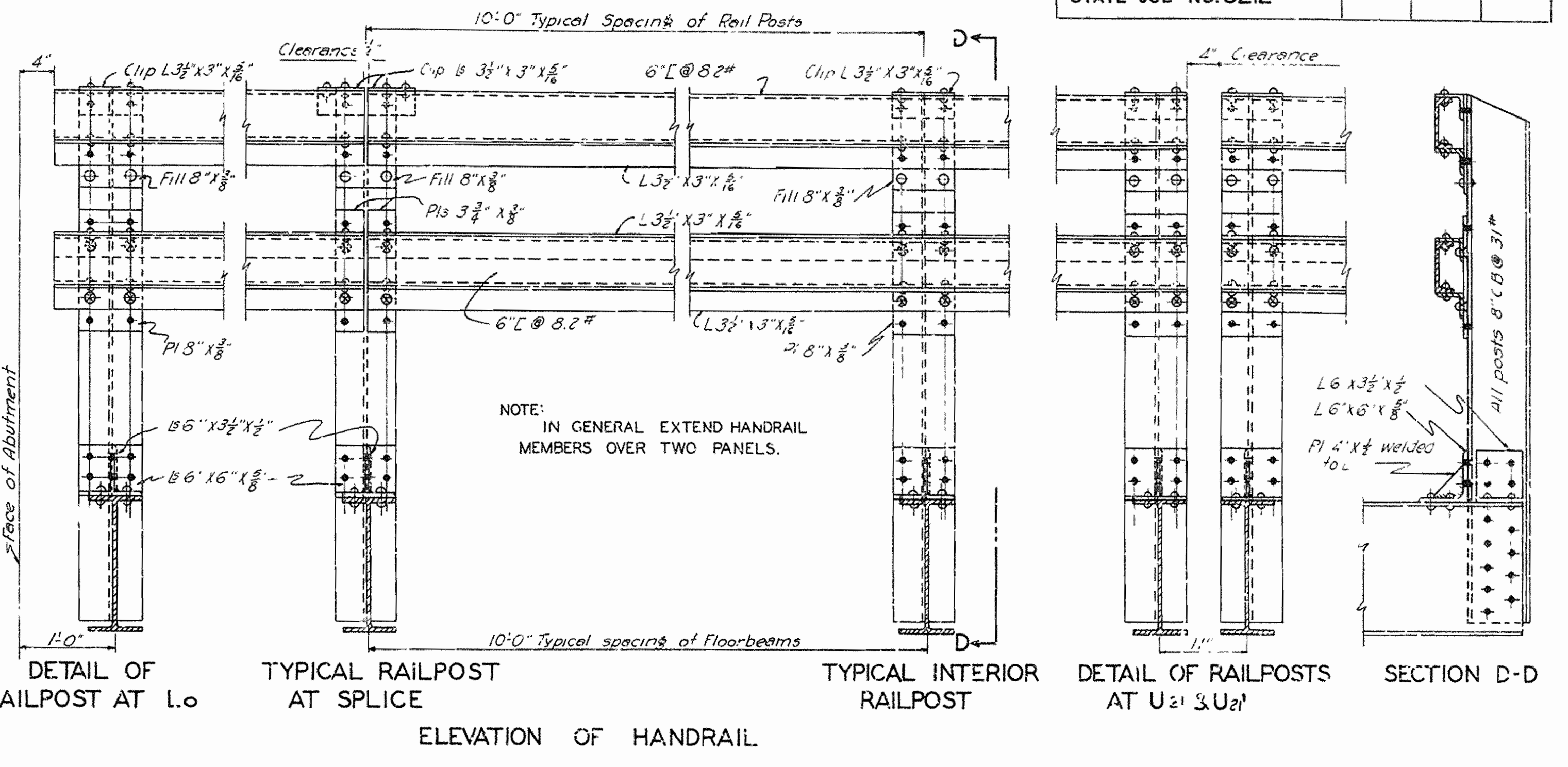
TYPICAL HALF SECTION OF DECK - SHOWING DETAILS



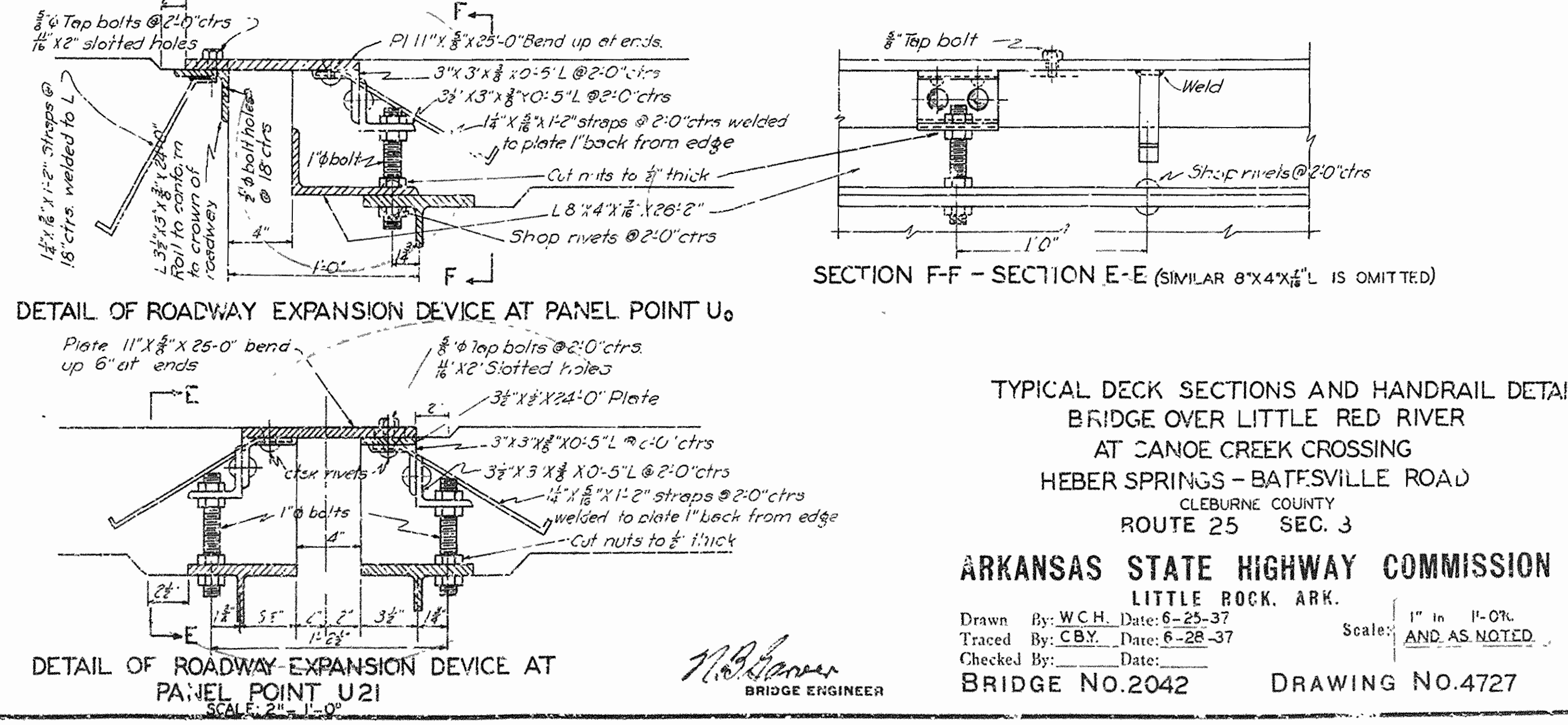
MARK	SIZE	NO. REQ. PER SPAN	LENGTH	BENDING DIAGRAM	MARK	SIZE	NO. REQ. PER SPAN	LENGTH	
S1	3/4"	252	145	252	26'-7"	S5	3/4"	21	16'-4"
S2	1/2"	252	145	252	28'-2"	S6	3/4"	558	248
S3	1/2"	252	145	252	27'-5"	S7	3/4"	41	41
S4	3/4"	254	146	254	4'-0"	S8	3/4"	21	21
						S9	3/4"	41	41
						S10	3/4"	42	42
						S11	3/4"	82	21'-0"
						S12	3/4"	21	11'-5"
						S13	3/4"	400	220
						S14	3/4"	6	6
						S15	3/4"	66	30
						S16	3/4"	6	6
						S17	3/4"	6	6
						S18	3/4"	6	6
						S19	3/4"	12	12
						S20	3/4"	12	12

BAR LIST FOR ROADWAY SLAB

BENT BARS				STRAIGHT BARS			
MARK	SIZE	NO. REQ. PER SPAN	LENGTH	MARK	SIZE	NO. REQ. PER SPAN	LENGTH
S1	3/4"	252	145	S5	3/4"	21	21
S2	1/2"	252	145	S6	3/4"	558	248
S3	1/2"	252	145	S7	3/4"	41	41
S4	3/4"	254	146	S8	3/4"	21	21
				S9	3/4"	41	41
				S10	3/4"	42	42
				S11	3/4"	82	21'-0"
				S12	3/4"	21	11'-5"
				S13	3/4"	400	220
				S14	3/4"	6	6
				S15	3/4"	66	30
				S16	3/4"	6	6
				S17	3/4"	6	6
				S18	3/4"	6	6
				S19	3/4"	12	12
				S20	3/4"	12	12



ELEVATION OF HANDRAIL



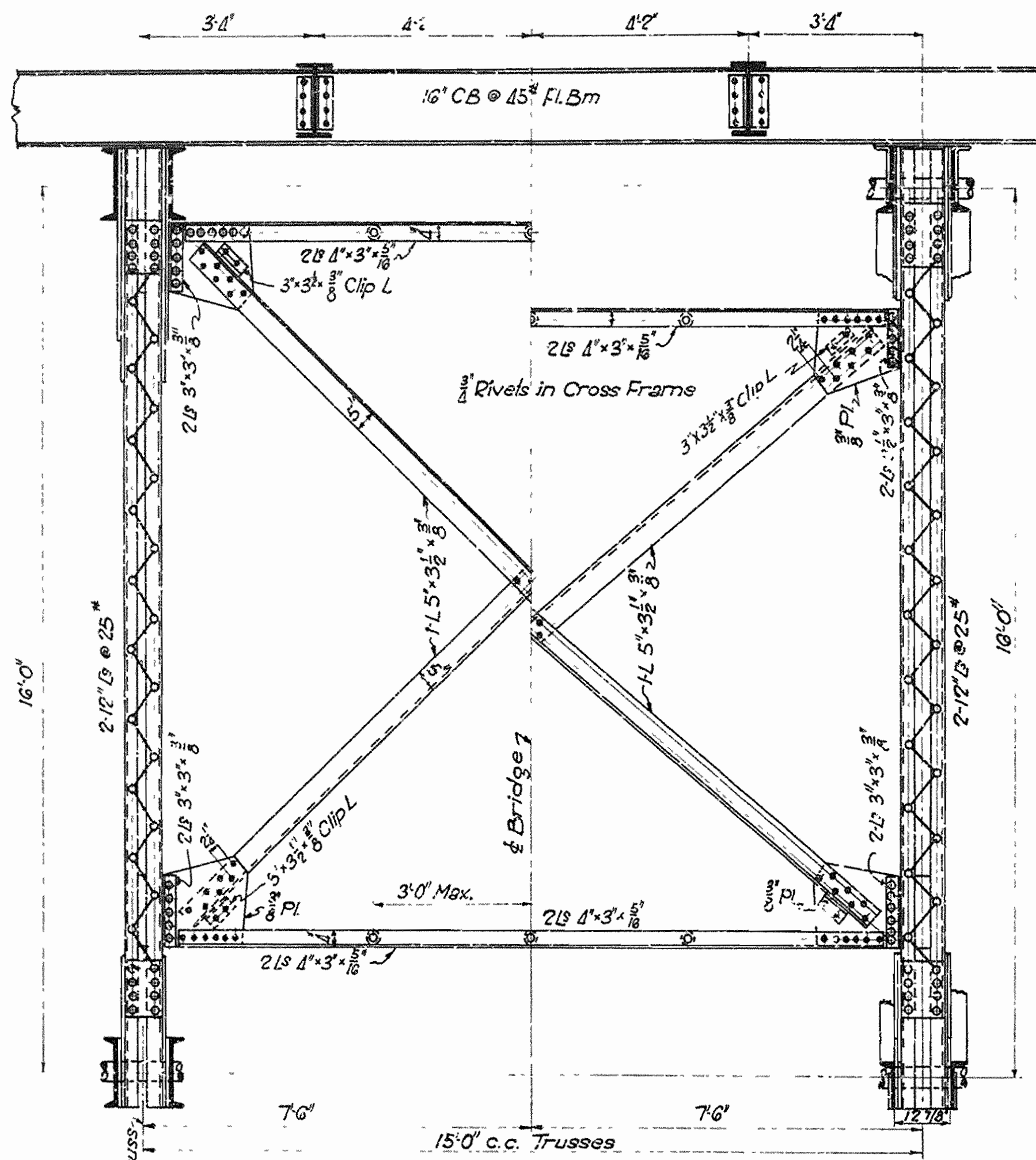
TYPICAL DECK SECTIONS AND HANDRAIL DETAILS
 BRIDGE OVER LITTLE RED RIVER
 AT CANOE CREEK CROSSING
 HEBER SPRINGS - BATESVILLE ROAD
 CLEBURNE COUNTY
 ROUTE 25 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: W.C.H. Date: 6-25-37
 Traced By: C.B.Y. Date: 6-28-37
 Checked By: _____ Date: _____
 BRIDGE NO. 2042 DRAWING NO. 4727

NOTE: DIMENSIONS RELATING TO REINFORCING ARE CENTER TO CENTER OF BARS

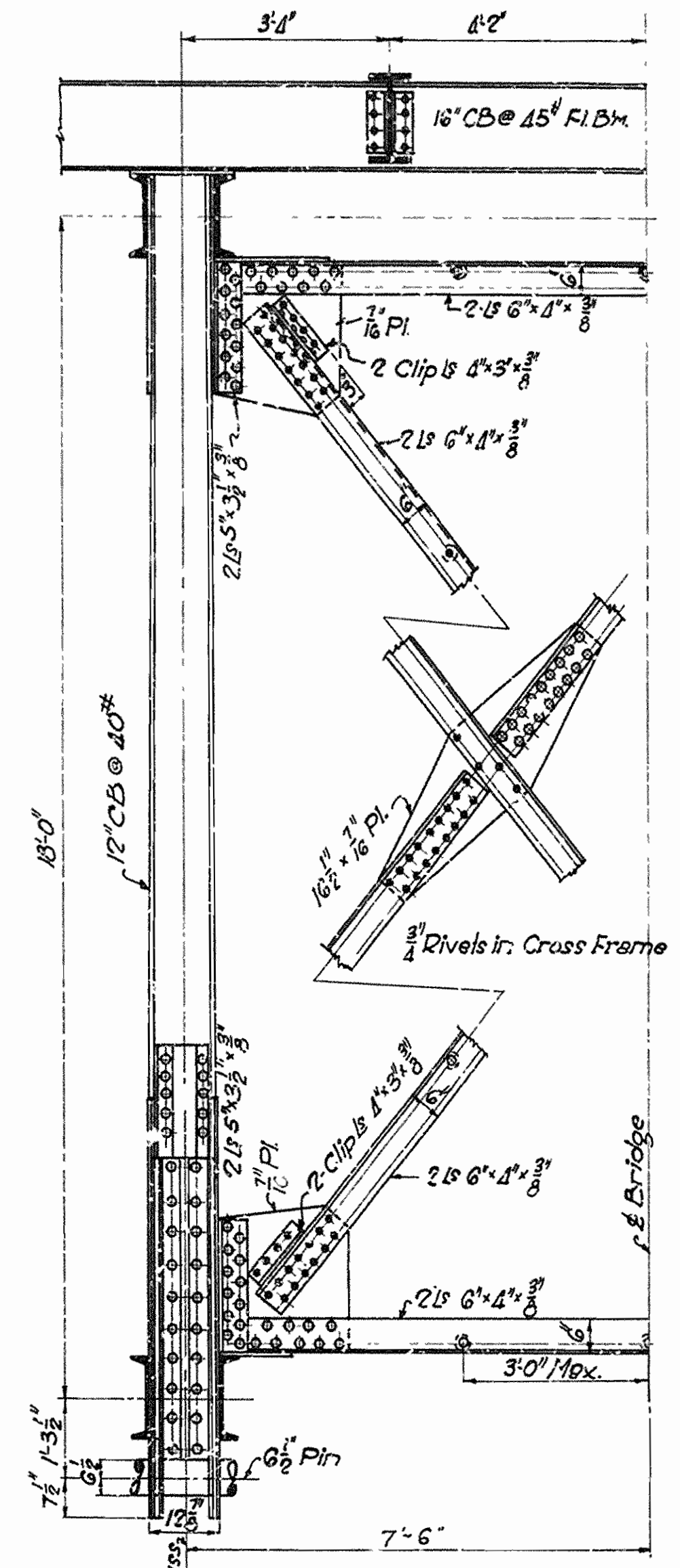
N.D. Lanier
 BRIDGE ENGINEER

FED ROAD DIST NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	AR.		1937	12	19
STATE JOB NO. 5212					

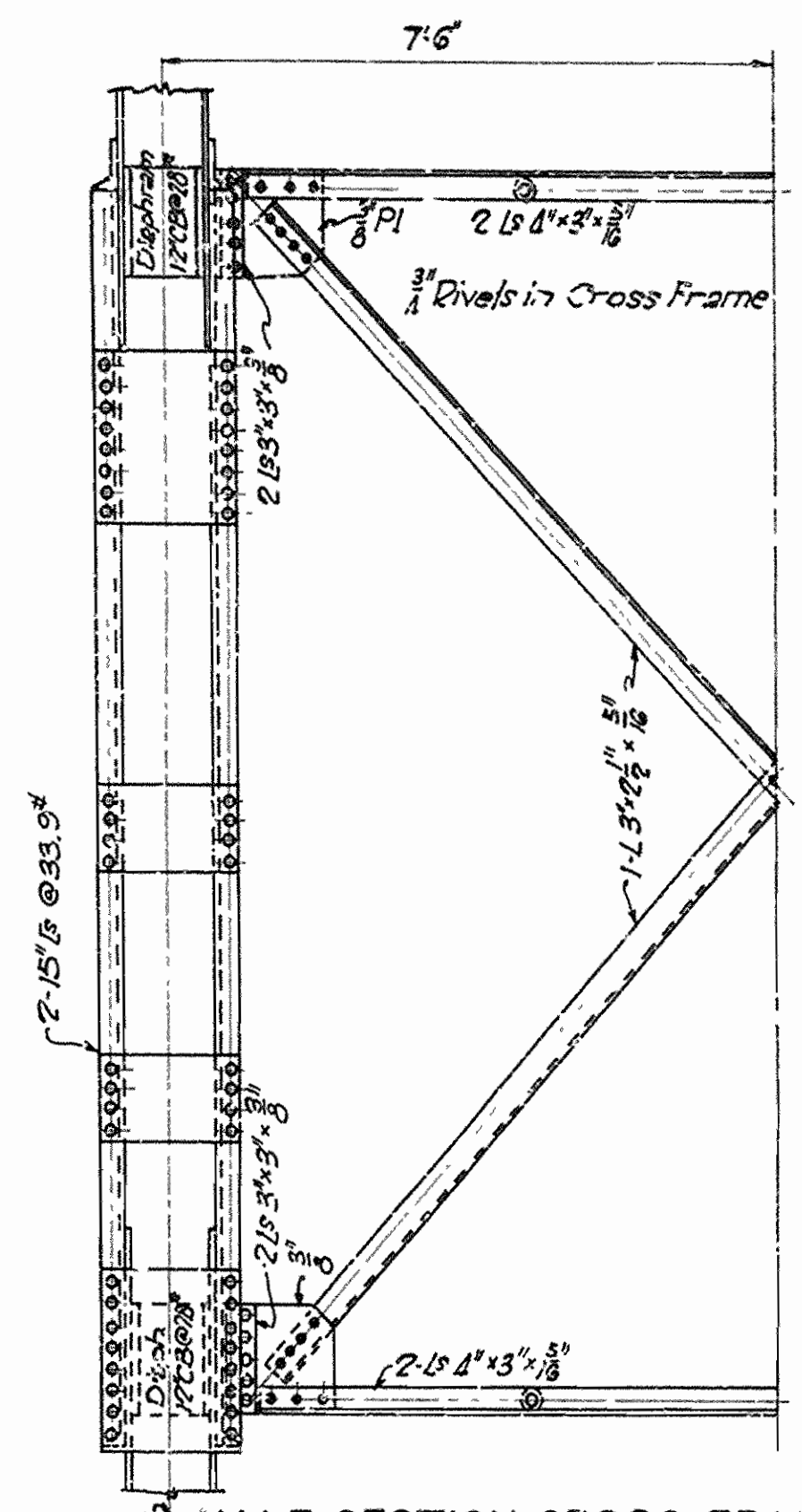


HALF SECTION CROSS FRAME AT L₂₀ U₂₀

HALF SECTION CROSS FRAME AT L₂₀ U₂₀



HALF SECTION CROSS FRAME AT PIERS 1 & 2



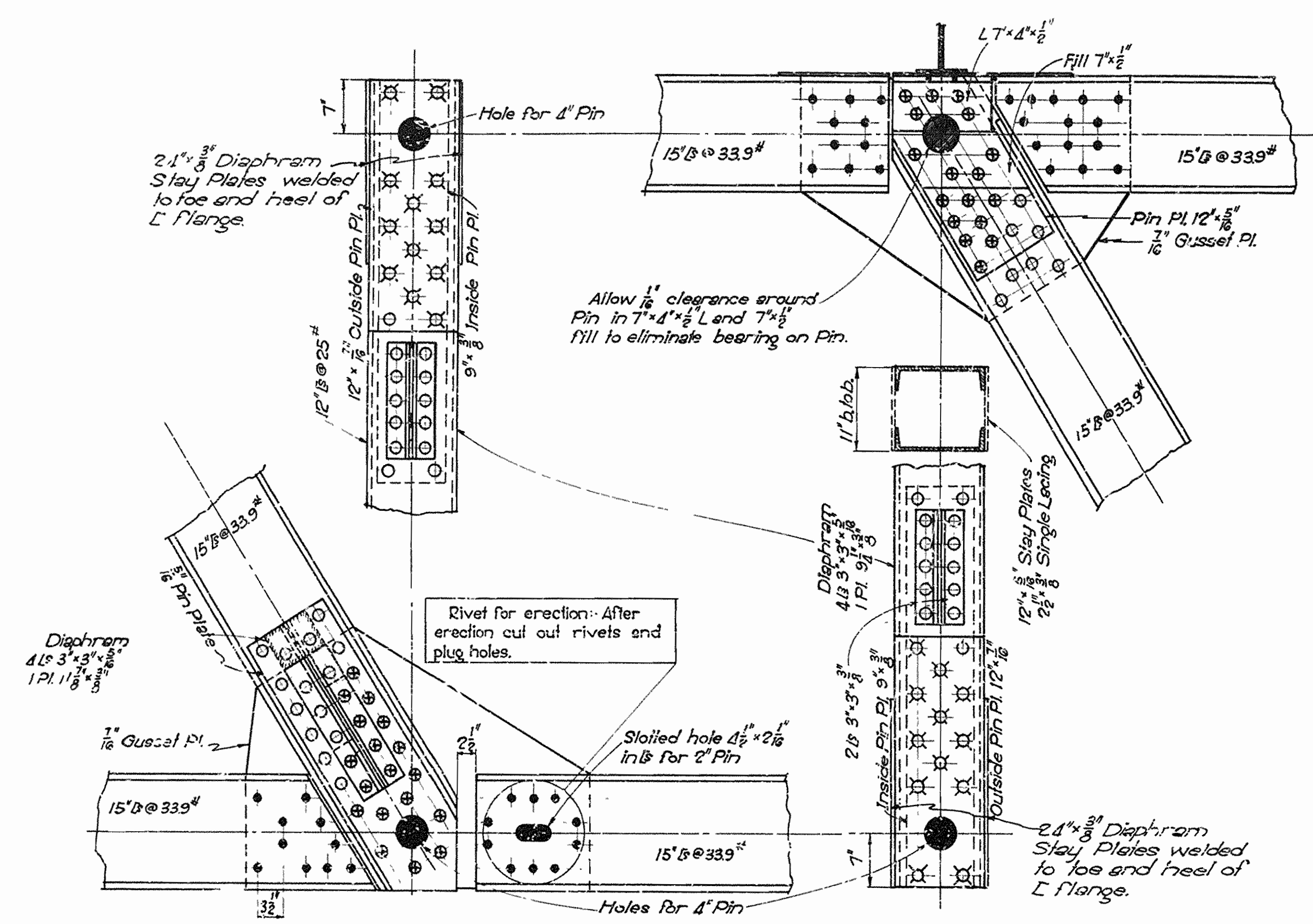
HALF SECTION CROSS FRAME AT ABUTMENTS

DETAILS OF CROSS FRAMES
 BRIDGE OVER LITTLERED RIVER
 AT CANOE CREEK CROSSING
 HEBER SPRINGS-BATESVILLE ROAD
 CLEBURNE COUNTY
 ROUTE 25 SEC. 3

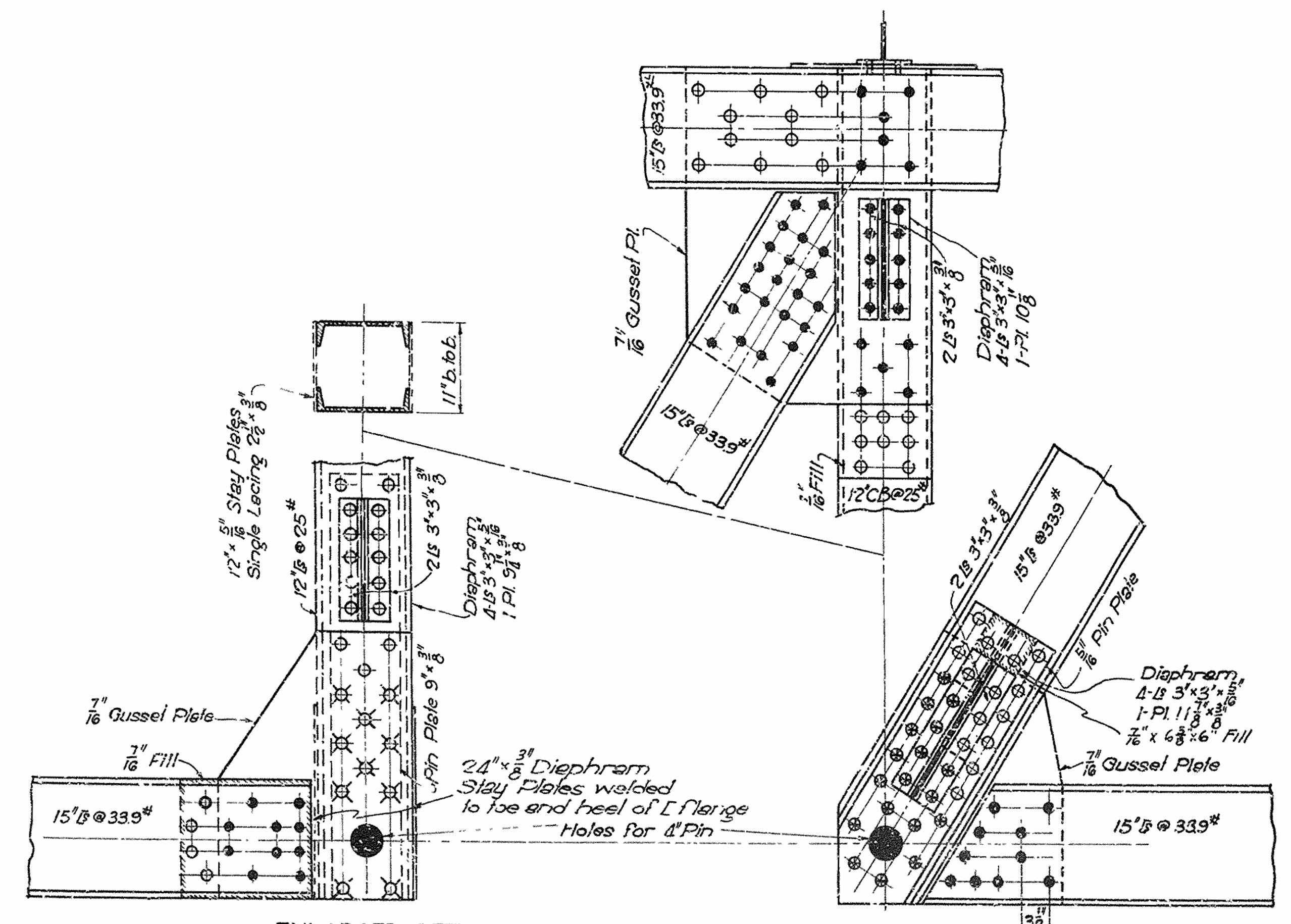
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.A.M.E. Date: 8-6-37
 Traced By: B.W.D. Date: 8-11-37
 Checked By: _____ Date: _____
 Scale: 1/2" = 1'-0"
 BRIDGE NO 2042 DRAWING NO. 4728

H. O. Kanaw
 BRIDGE ENGINEER

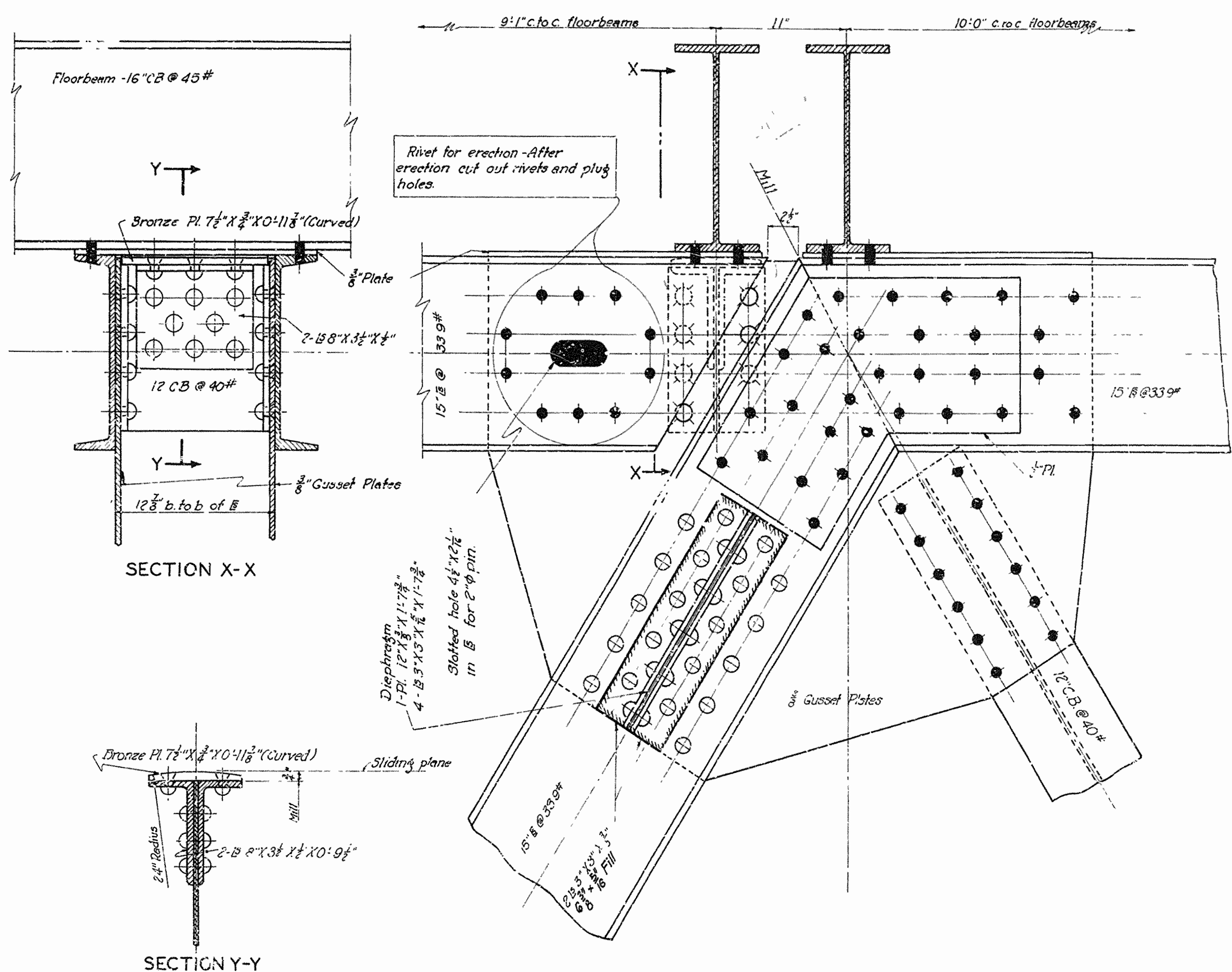
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	424-7A	1937	13	19
STATE JOB NO 5212					



ENLARGED DETAILS OF JOINTS AT L20-U20
Scale: 1"=1'-0"



ENLARGED DETAILS OF JOINTS AT L20 & U20
Scale: 1"=1'-0"



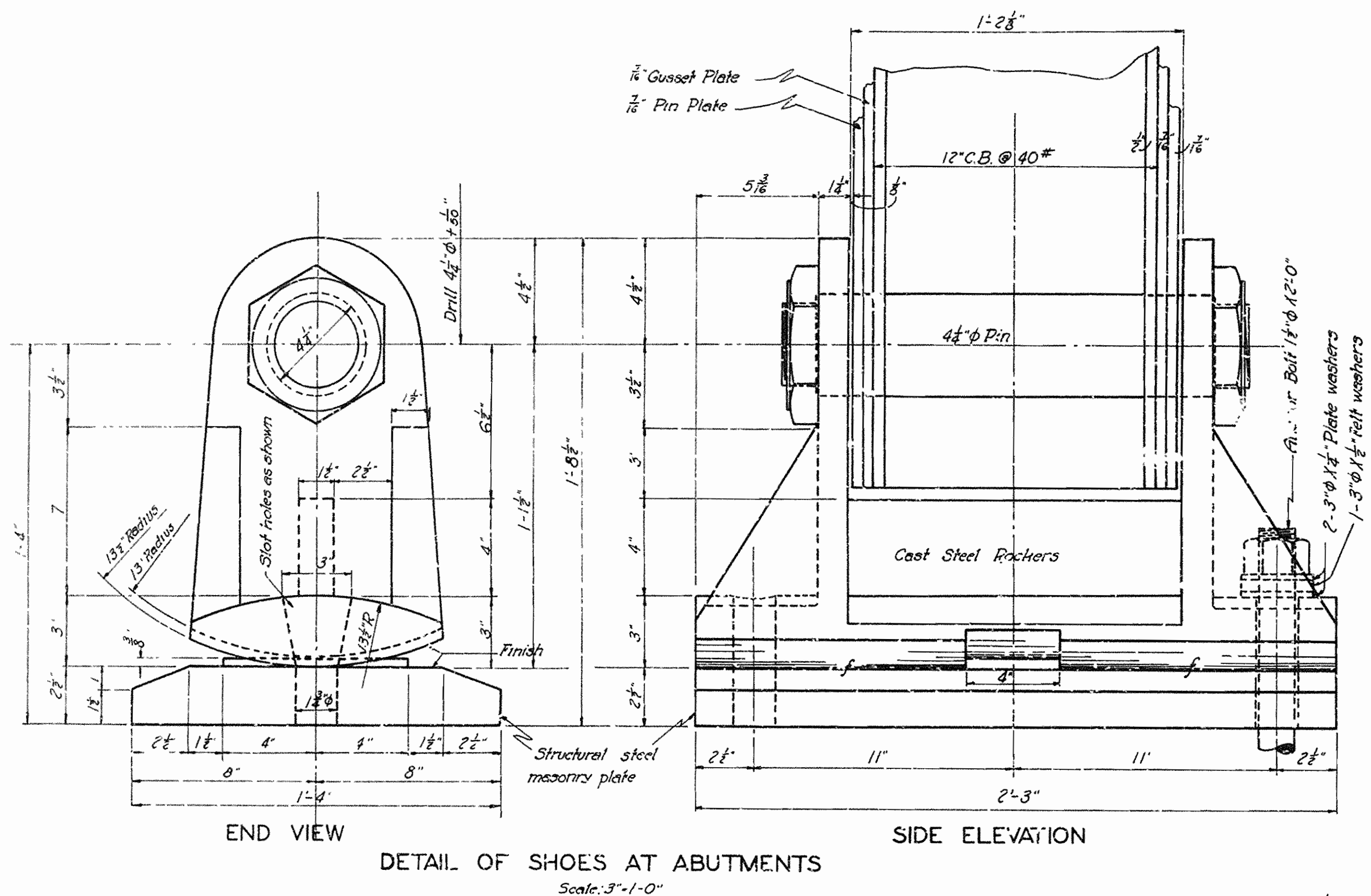
ENLARGED DETAILS OF EXPANSION JOINT AT U21 & U'21
Scale: 2"=1'-0"

ENLARGED JOINT DETAILS AT PANEL POINTS
L20 & U20, L20 & U20' & U21 & U21'
BRIDGE OVER LITTLE RED RIVER
AT CANOE CREEK CROSSING
HEBER SPRINGS-BATESVILLE ROAD
CLEBURNE COUNTY
ROUTE 25 SEC. 3

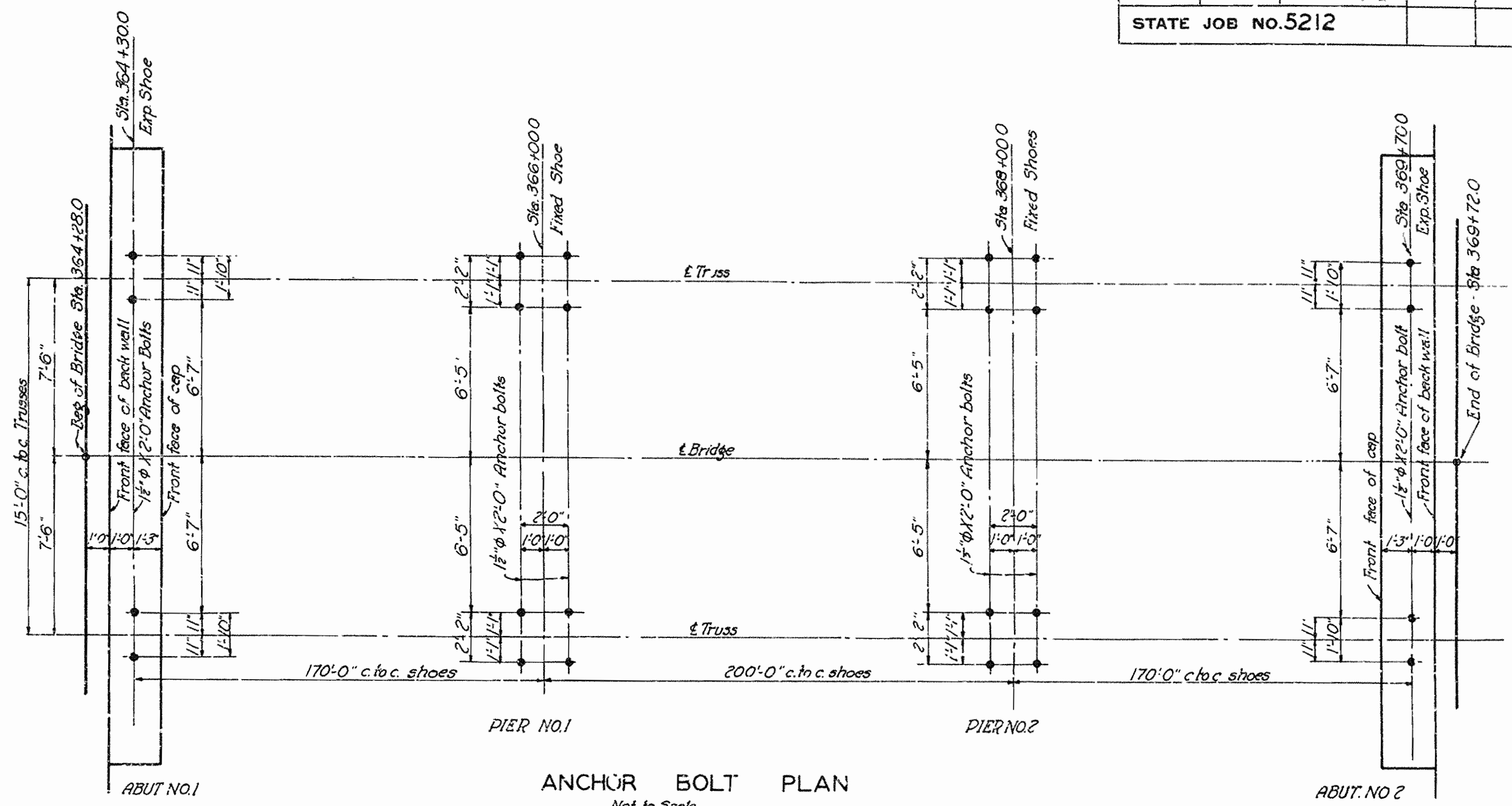
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: W.C.H. Date: 7-21-37
Traced By: C.Y.B. Date: 8-12-37
Checked By: _____ Date: _____
BRIDGE NO. 2042 DRAWING NO. 4729

M.C. Lanier
BRIDGE ENGINEER

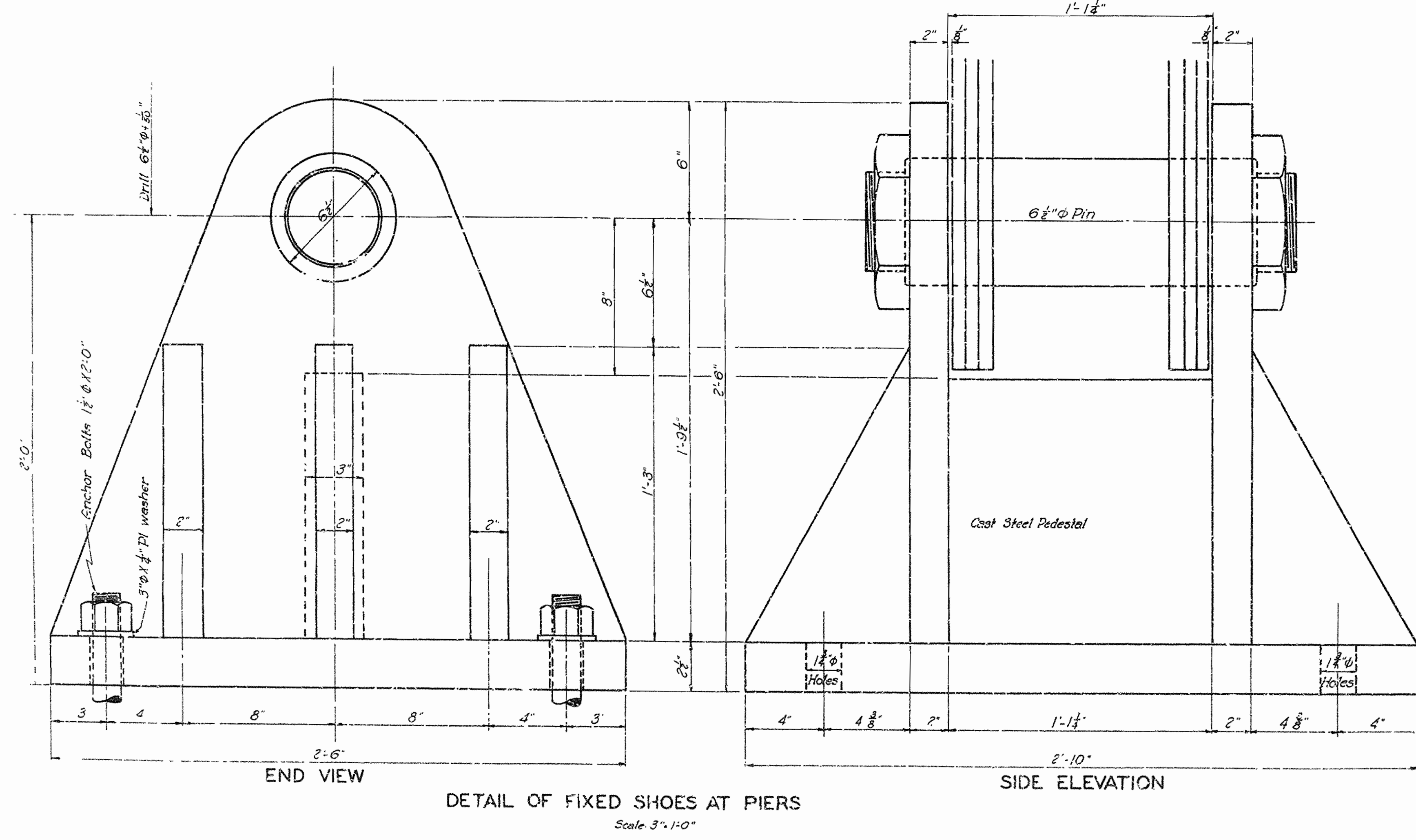
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	584-C-29	1937	14	19
STATE JOB NO. 5212					



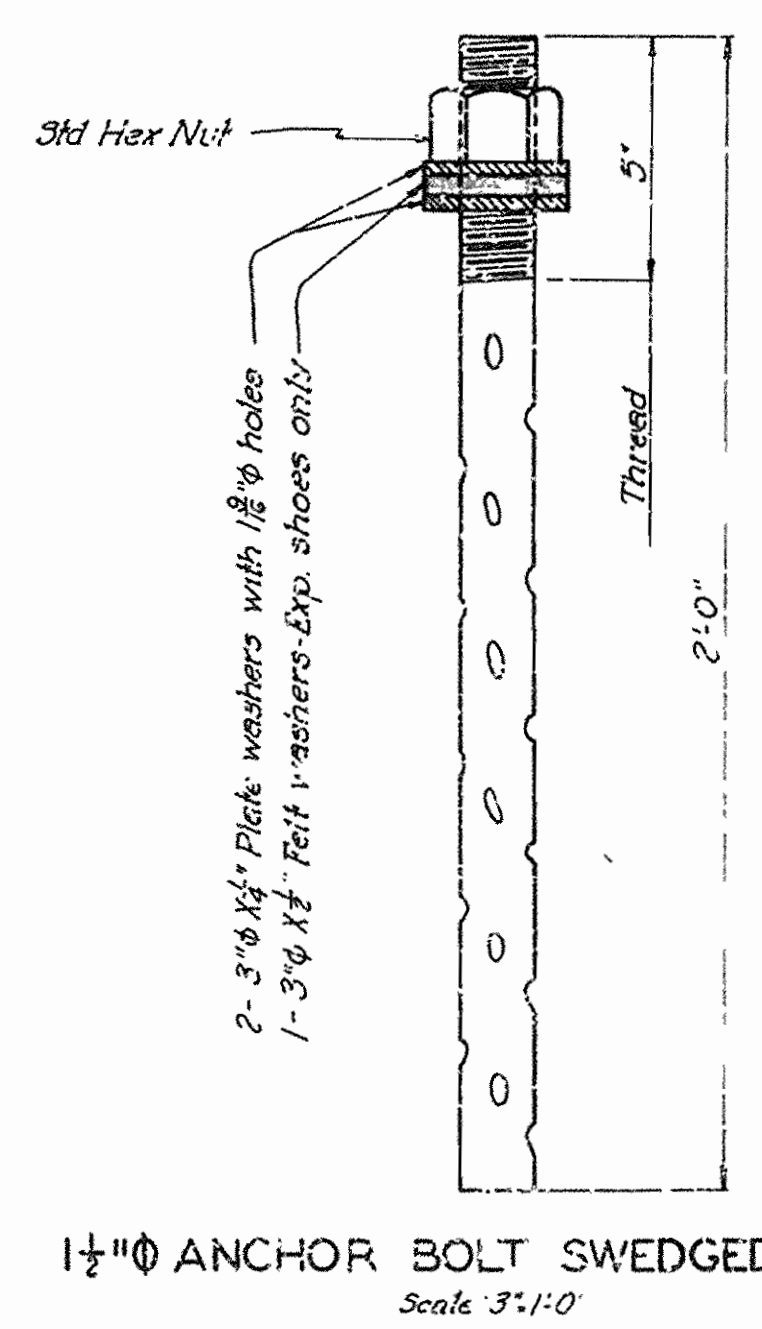
DETAIL OF SHOES AT ABUTMENTS
Scale: 3"-1'-0"



ANCHOR BOLT PLAN
Not to Scale



DETAIL OF FIXED SHOES AT PIERS
Scale: 3"-1'-0"



1 1/2" ANCHOR BOLT SWEDGED
Scale: 3"-1'-0"

GENERAL NOTES

Masonry plates shall be finally sealed on three layers of burlap saturated with red lead. This work and material to be included in price bid for "Structural Steel in Truss Spans."
 For details of Abutments No. 1 and 2, see Drawing Nos. 4731 & 4733
 For details of Piers No. 1 and 2, see Drawing No. 4732
 For details of Superstructure see Drawing No. 4722, 4724

DETAIL OF SHOES
 BRIDGE OVER LITTLE RED RIVER
 CANOE CREEK CROSSING
 HEBER SPRINGS-BATESVILLE ROAD
 CLEBURNE COUNTY
 ROUTE 25 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

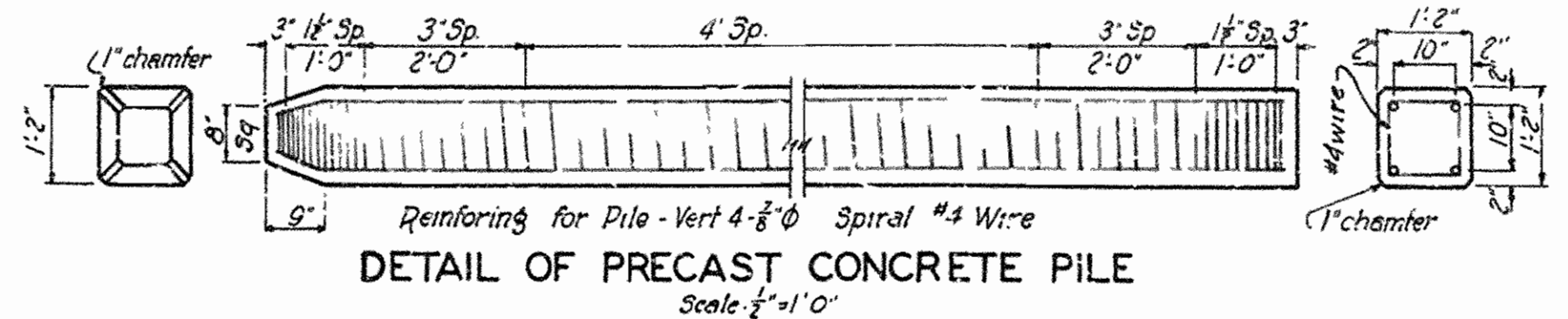
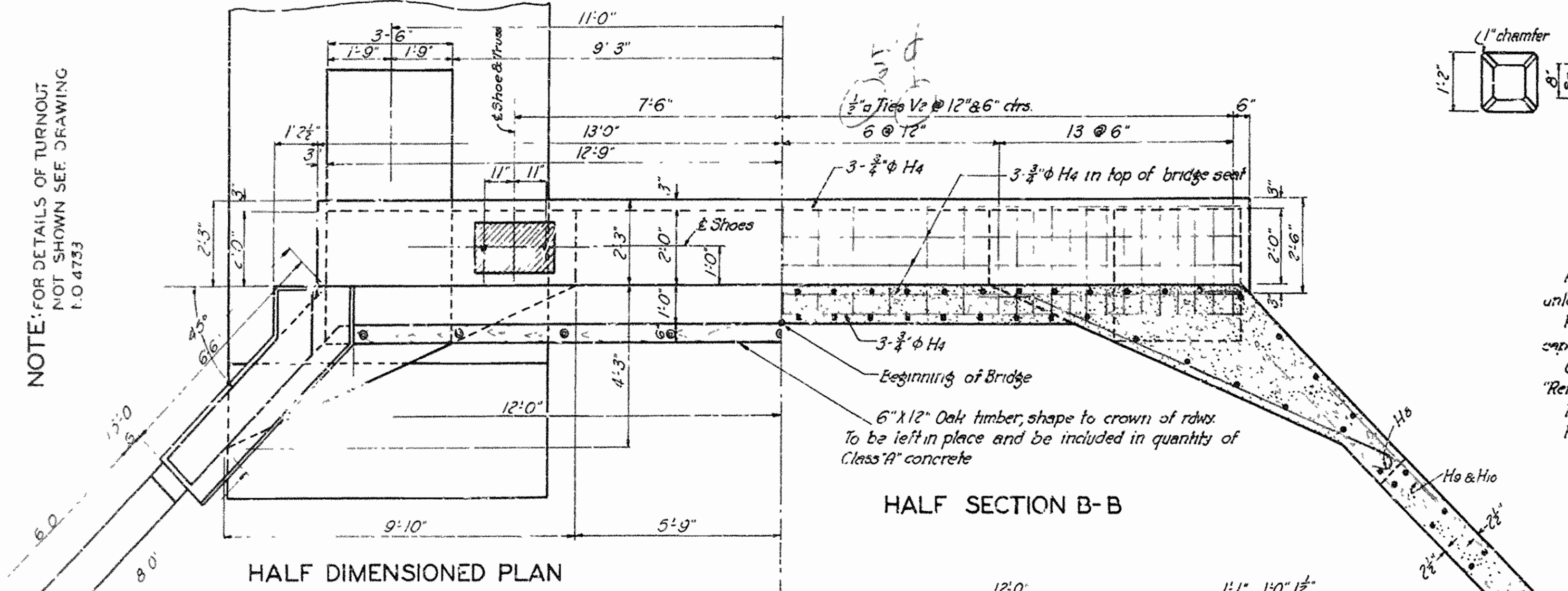
Drawn By: M.C.H. Date: 7-18-37
 Traced By: [Signature] Date: 7-19-37
 Checked By: [Signature] Date: [Blank]

Scale: *Scales shown* in ft.
BRIDGE NO. 2042 DRAWING NO. 4730

M.C.H.
 BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.		1937	15	19

STATE JOB NO. 5212



GENERAL NOTES

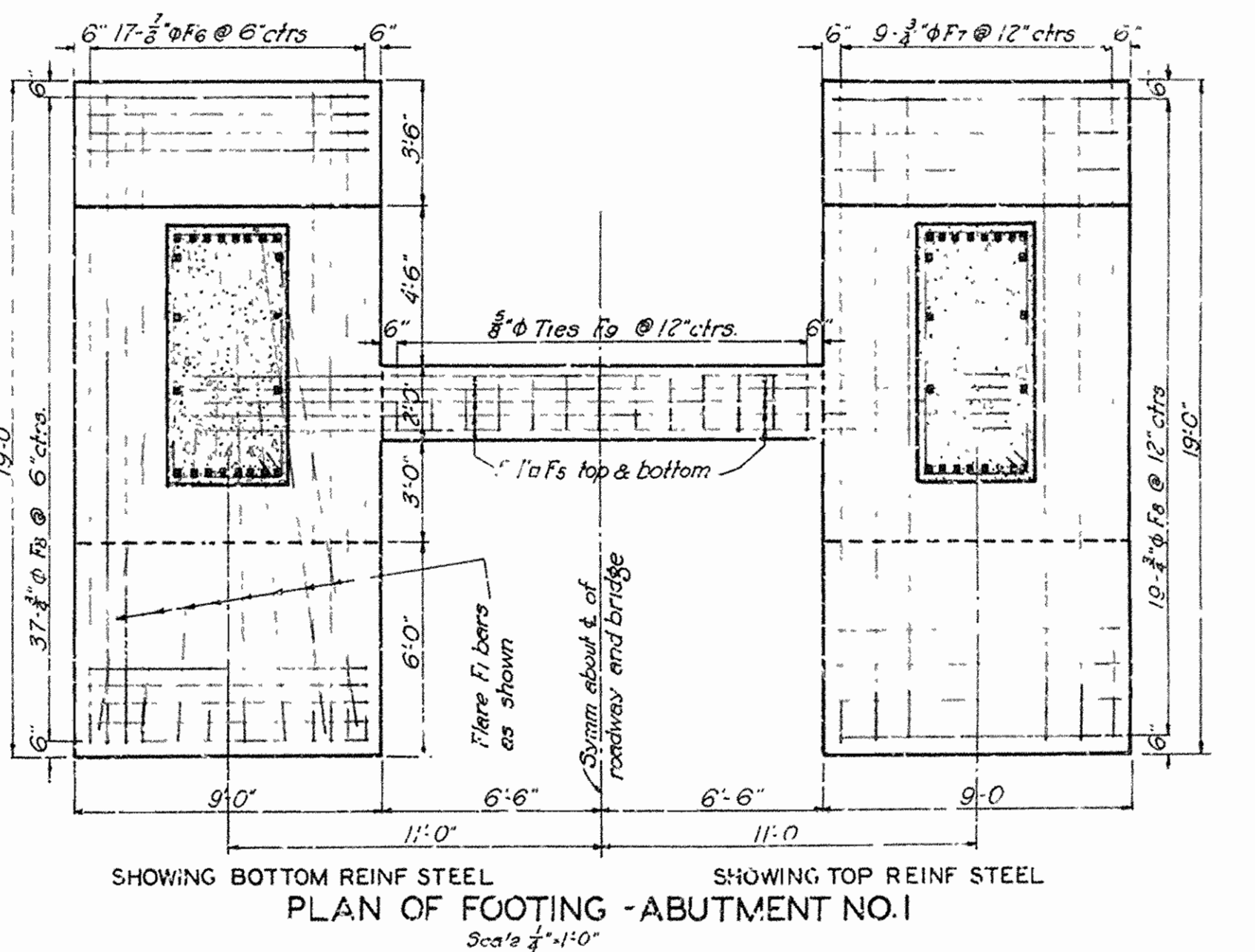
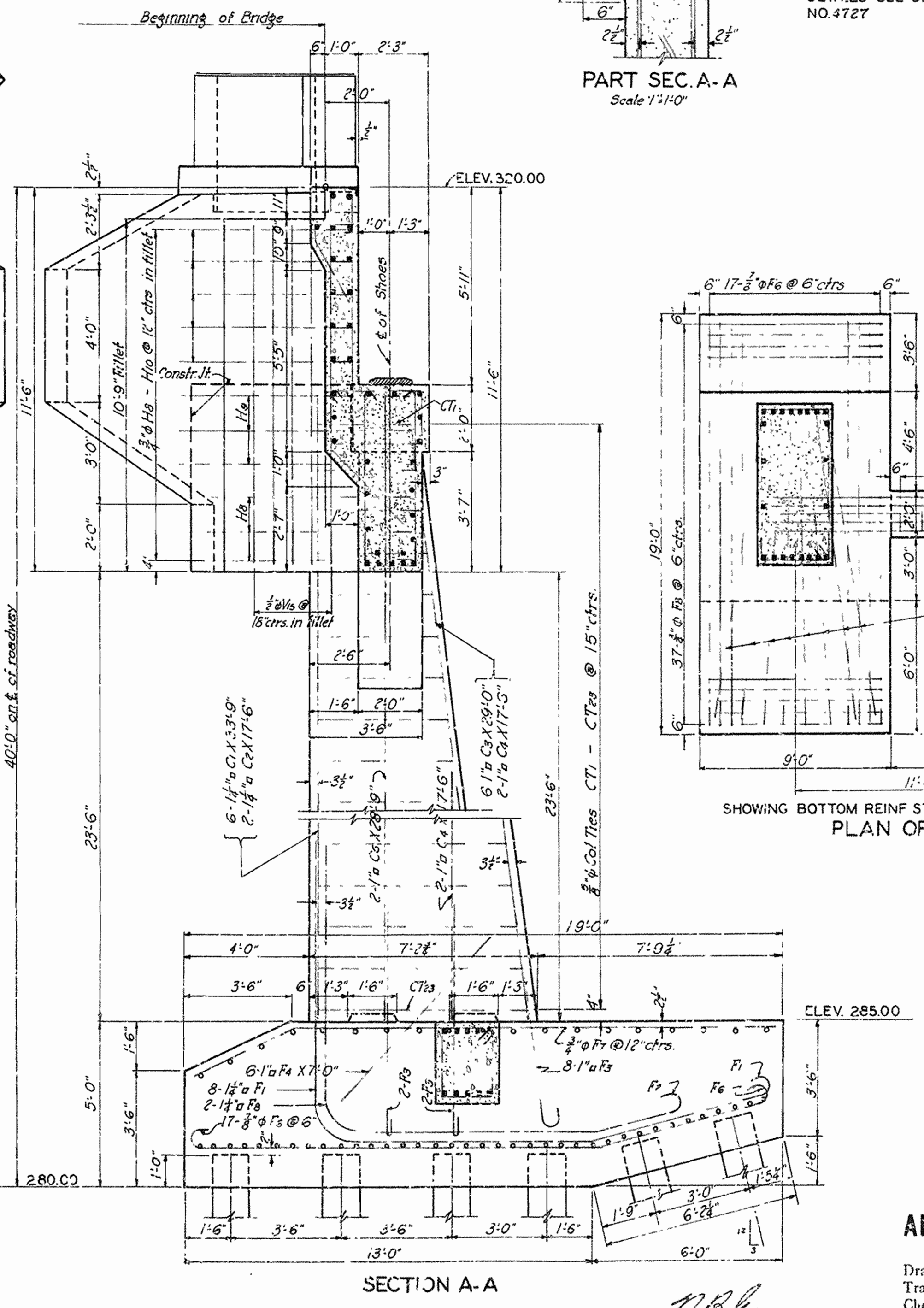
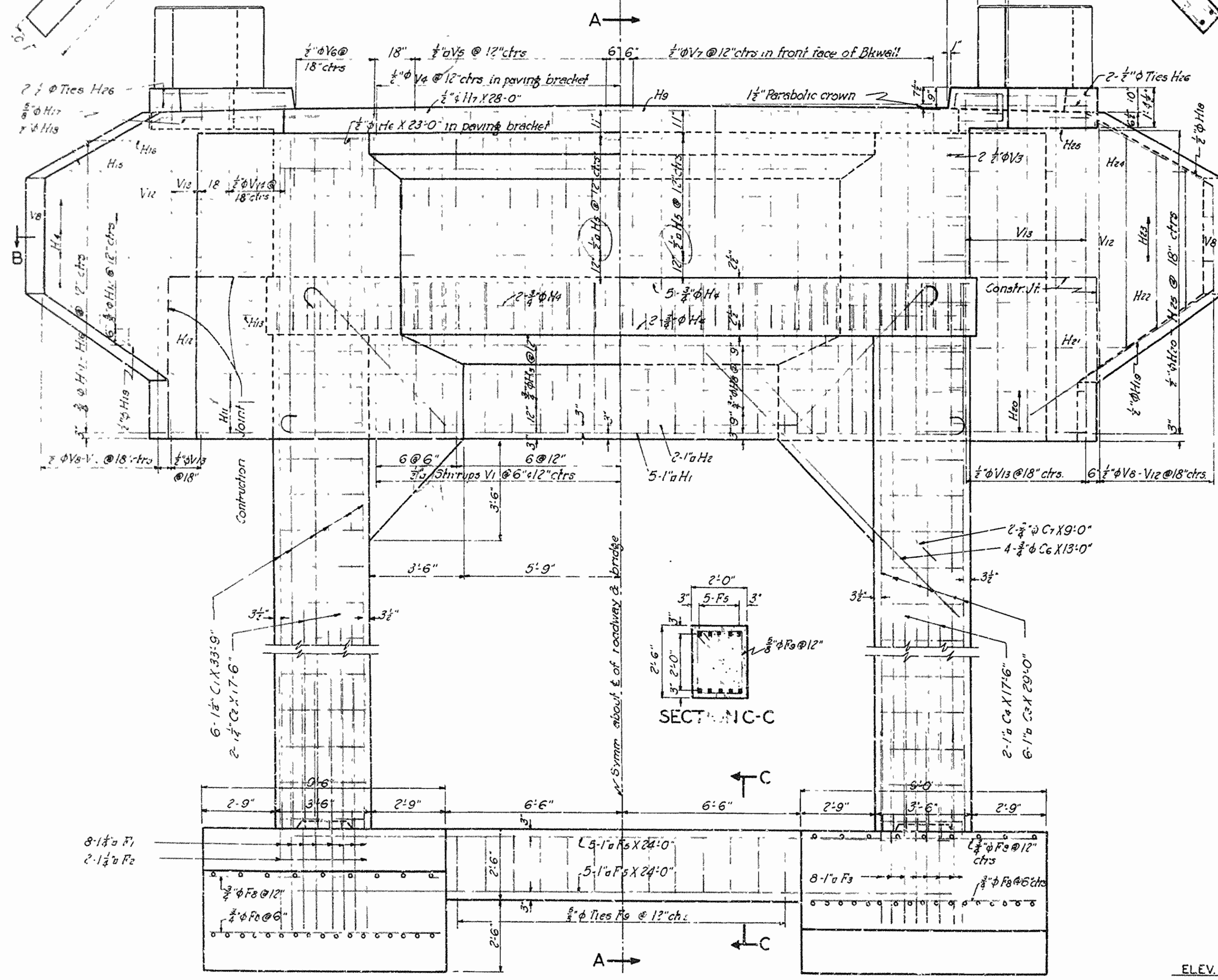
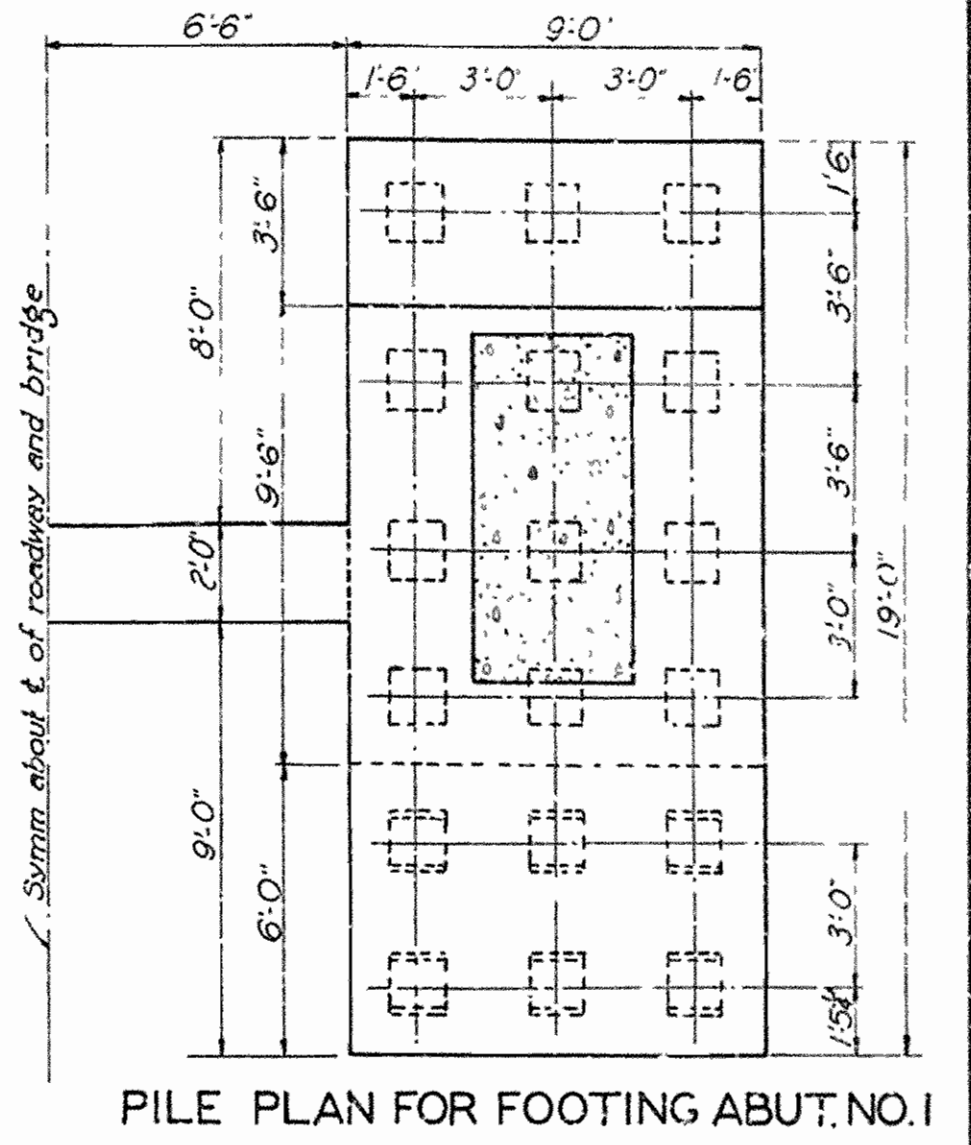
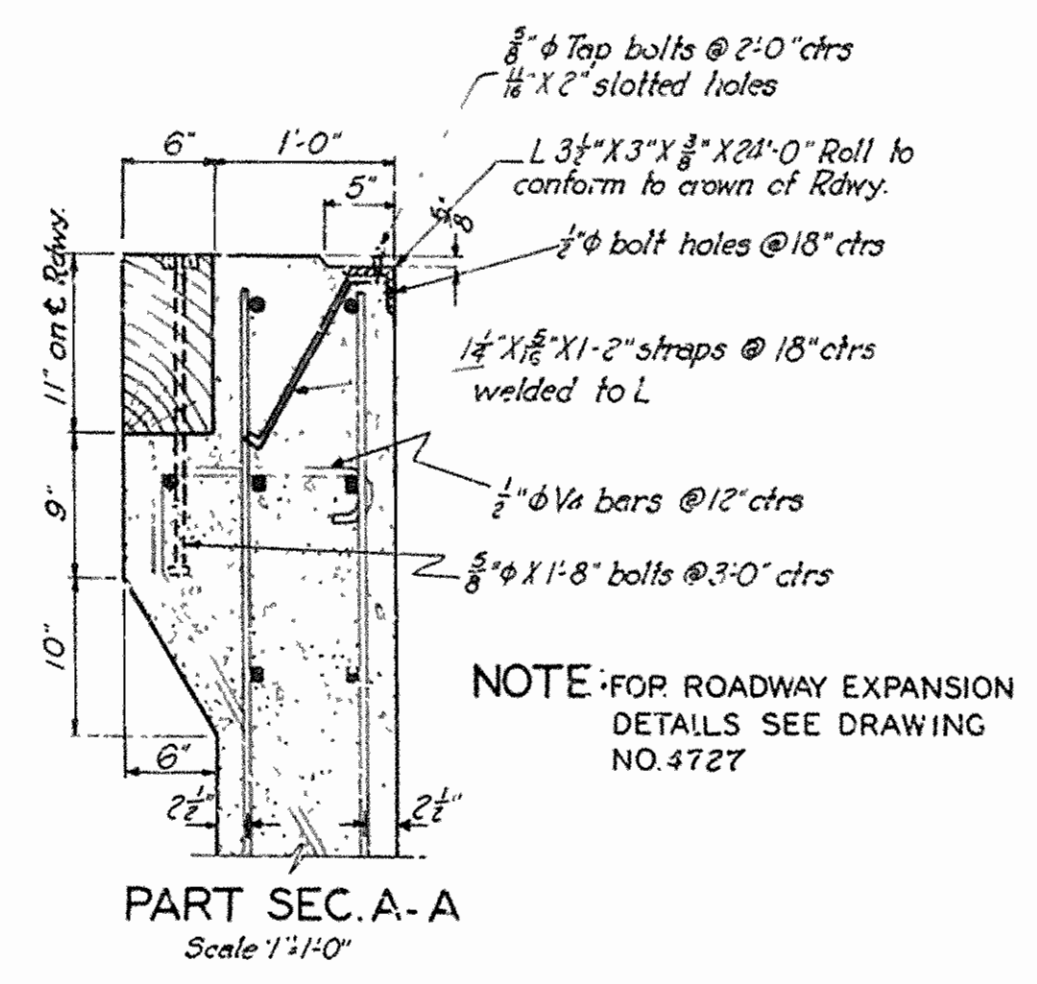
All concrete to be Class 'A'. All exposed corners to be chamfered 3/4" unless otherwise noted.

Precast concrete piles to be Class 'C' and to have a minimum capacity of 30 tons each.

Oak header bolts to be paid for at the unit price bid for "Reinforcing Steel."

For Bar List and Detail of Turnouts see Drawg. No. 4733

For details of Superstructure see Drawg. No. 4722



DETAILS OF ABUTMENT NO. I
BRIDGE OVER LITTLE RED RIVER
AT CANOE CREEK CROSSING
HEBER SPRINGS-BATESVILLE ROAD
CLEBURNE COUNTY
ROUTE 25 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

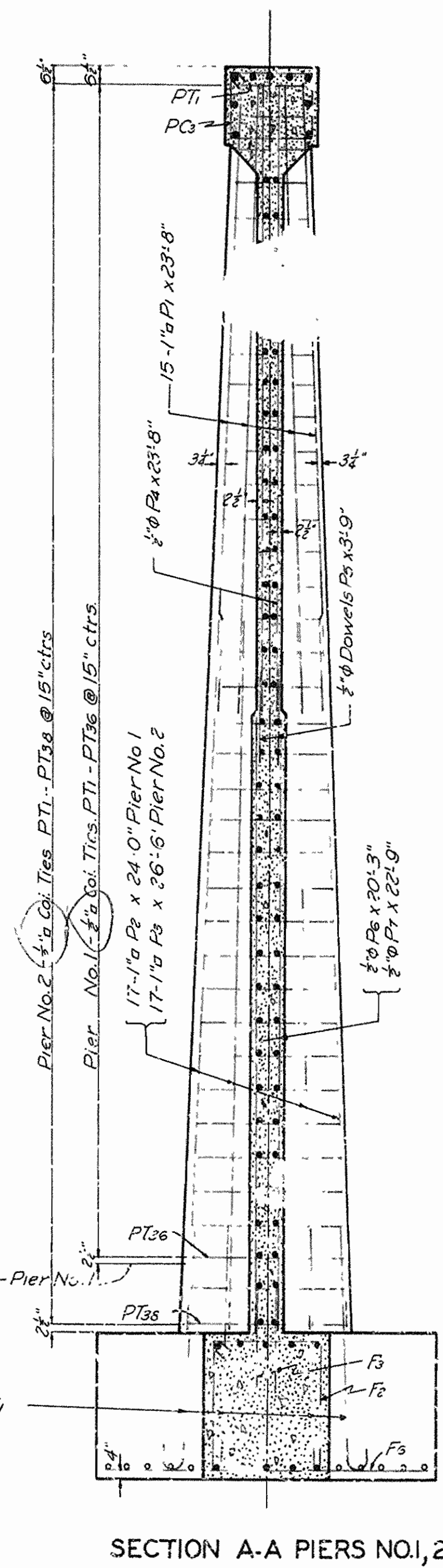
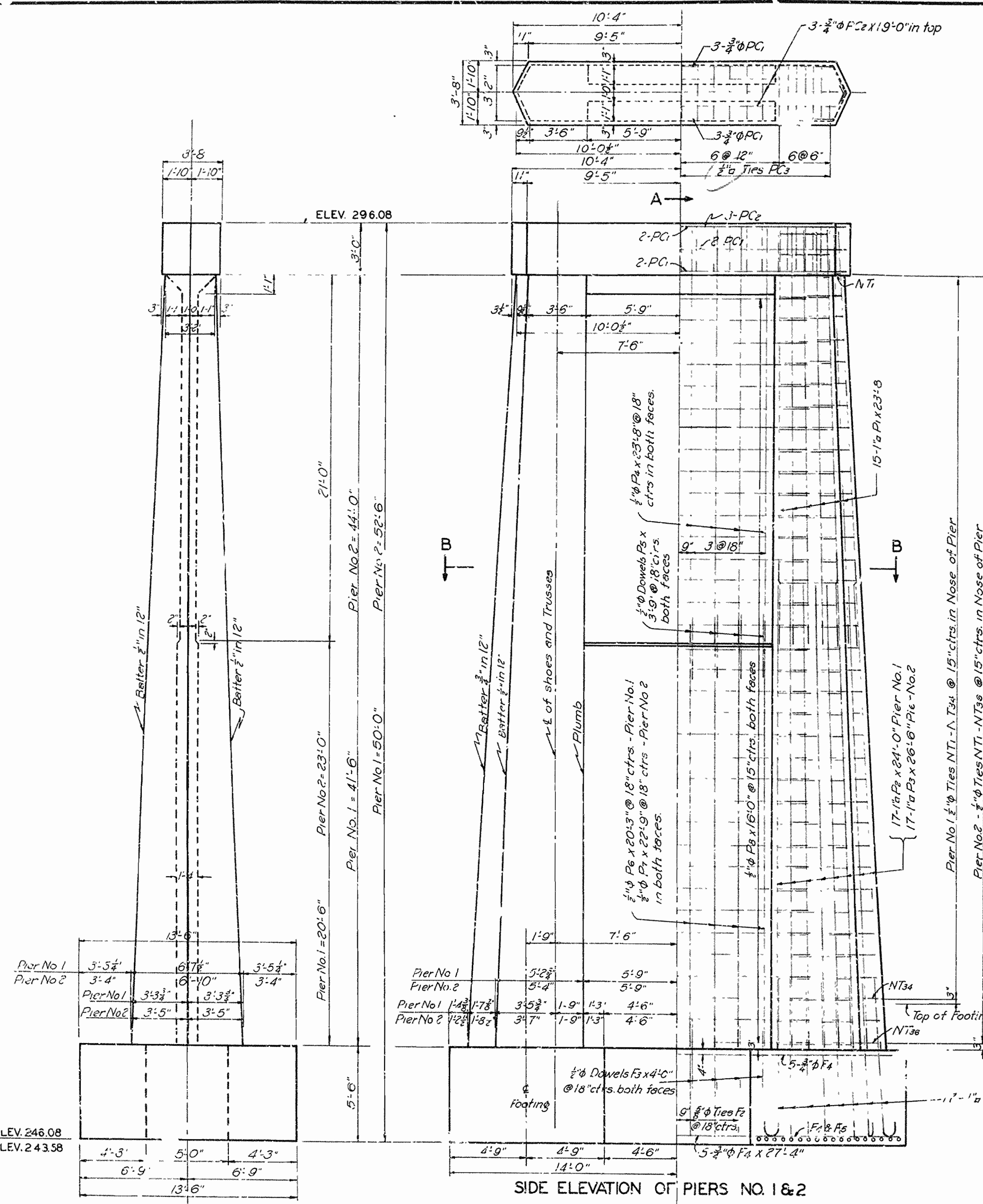
Drawn By: W.C.H. Date: 7-10-37
Traced By: Date: 7-22-37
Checked By: Date:

Scale: 3/4" = 1'-0" (except as noted)

BRIDGE NO. 2042 DRAWING NO. 4731

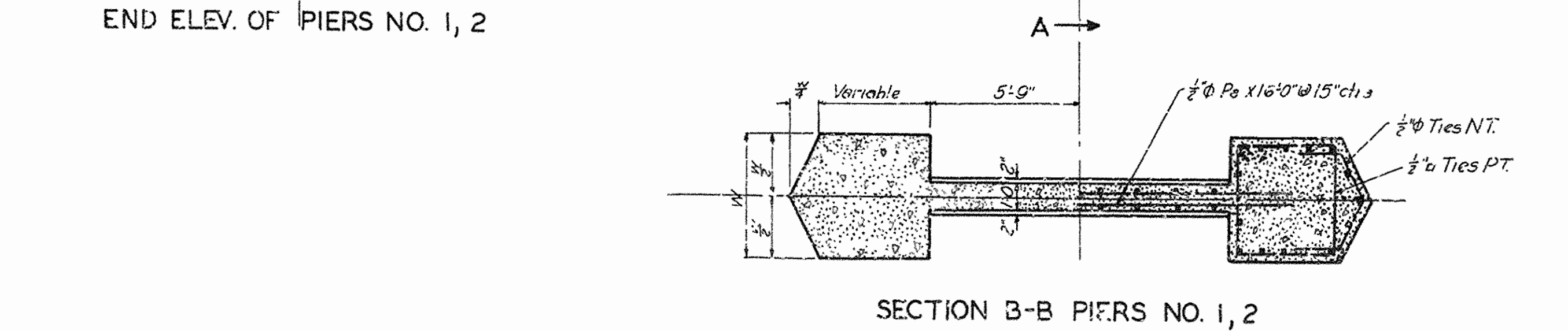
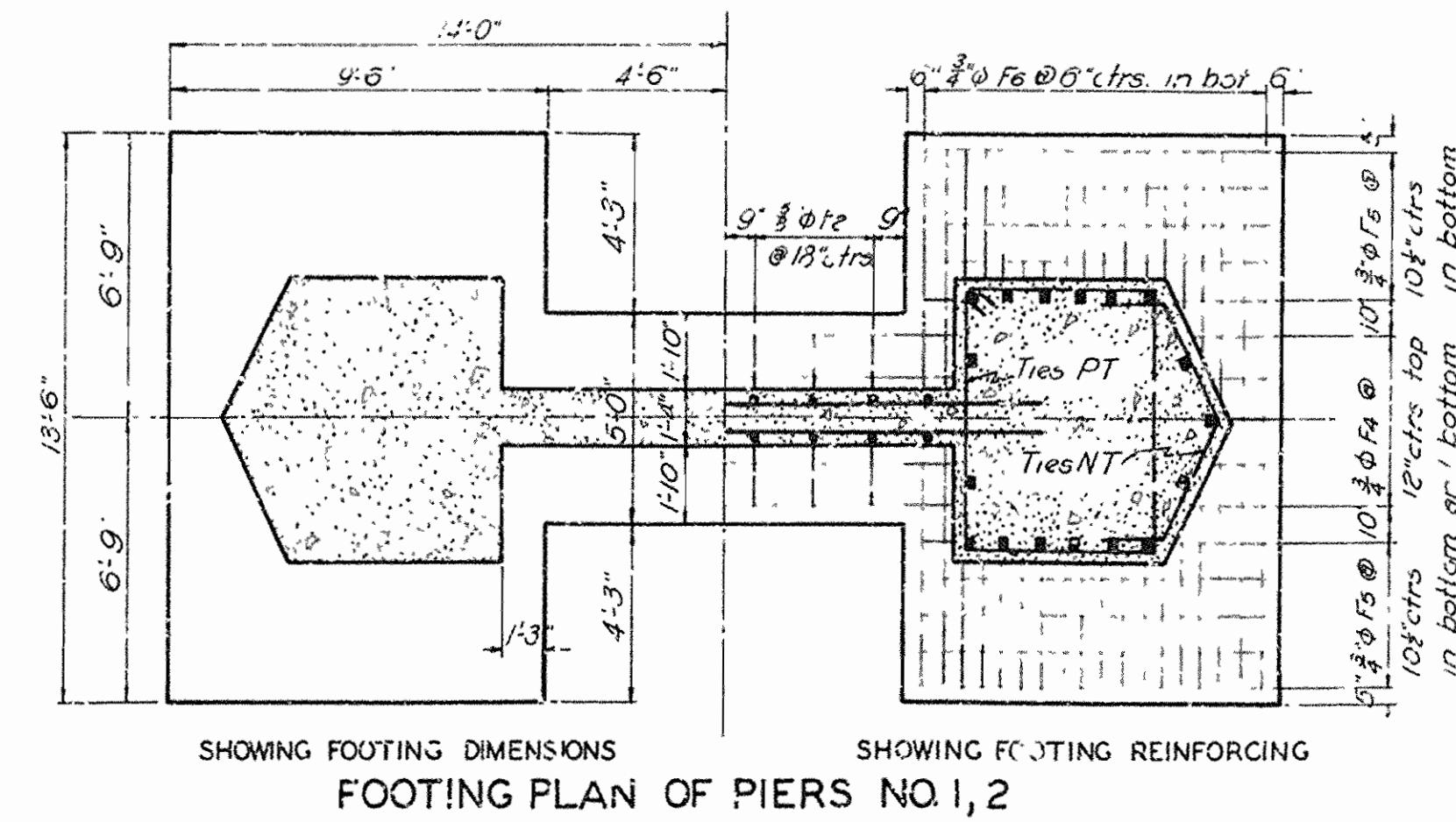
W.C. Hanner
BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.		1937	16	19
STATE JOB NO. 5212					



BAR LIST FOR PIERS NO. 1, 2

MARK	SIZE	NO. REQ'D.		LENGTH	BENT BARS		BENDING DIAGRAM	STRAIGHT BARS				
		PIER 1	PIER 2		A	B		MARK	SIZE	PIER 1	PIER 2	LENGTH
F ₁	1" ø	34	34	10'-0"				F ₁	1" ø	30	30	23'-3"
PC ₁	3/4" ø	6	6	23'-5"				P ₂	1" ø	34	—	24'-0"
								P ₃	1" ø	—	34	26'-6"
F ₂	5/8" ø	6	6	18'-10"	4'-11"	4'-1 1/2"		P ₄	1/2" ø	16	16	23'-8"
PC ₂	1/2" ø	25	25	12'-7"	3'-5 1/2"	2'-7 1/2"		P ₅	1/2" ø	16	16	3'-9"
PT ₁ to PT ₃	1/2" ø	2	—	Varies 11'-11" to 22'-10"	Varies 2'-6 1/2" to 6'-2 1/2"	Varies 3'-0" to 4'-9 3/8"		P ₆	1/2" ø	16	—	20'-3"
PT ₁ to PT ₃	1/2" ø	—	2	Varies 11'-11" to 23'-5"	Varies 2'-6 1/2" to 6'-5"	Varies 3'-7" to 4'-11 1/2"		P ₇	1/2" ø	—	16	22'-9"
NT ₁ to NT ₃	1/2" ø	2	—	Varies 6'-3" to 10'-0"	Varies 2'-6 1/2" to 5'-11 1/2"	Varies 1'-5 1/2" to 3'-3 3/8"		F ₃	1/2" ø	16	16	4'-0"
NT ₁ to NT ₃	1/2" ø	—	2	Varies 6'-3" to 10'-5"	Varies 2'-6 1/2" to 6'-2"	Varies 1'-5 1/2" to 3'-0 1/2"		F ₄	3/8" ø	10	10	27'-4"
NT ₁ to NT ₃	1/2" ø	—	2	Varies 6'-3" to 10'-5"	Varies 2'-6 1/2" to 6'-2"	Varies 1'-5 1/2" to 3'-0 1/2"		F ₅	3/8" ø	20	20	8'-10"
NT ₁ to NT ₃	1/2" ø	—	2	Varies 6'-3" to 10'-5"	Varies 2'-6 1/2" to 6'-2"	Varies 1'-5 1/2" to 3'-0 1/2"		F ₆	3/8" ø	36	36	12'-10"
								PC ₂	3/8" ø	3	3	19'-0"



GENERAL NOTES
 ALL CONCRETE TO BE CLASS 'A'. ALL EXPOSED CORNERS TO BE CHAMFERED 1/4" UNLESS OTHERWISE SHOWN.
 DIMENSIONS RELATING TO REINFORCING BARS ARE TO CENTERS OF BARS.
 FOR DETAILS OF SUPERSTRUCTURE SEE DRAWING NO. 4724 & 4730

**DETAIL OF PIERS NO. 1 AND 2
 BRIDGE OVER LITTLE RED RIVER
 AT CANOE CREEK CROSSING
 HEBER SPRINGS-BATESVILLE ROAD
 CLEBURNE COUNTY**

ROUTE 25 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: W.C.H. Date: 7-1-37
 Traced By: C.B.Y. Date: 7-2-37
 Checked By: _____ Date: _____
 BRIDGE NO. 2042 DRAWING NO. 4732

W.C.H.
 BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	2042	1937	17	19
STATE JOB NO. 5212					

BAR LIST FOR ABUTMENTS NOS. 1 & 2

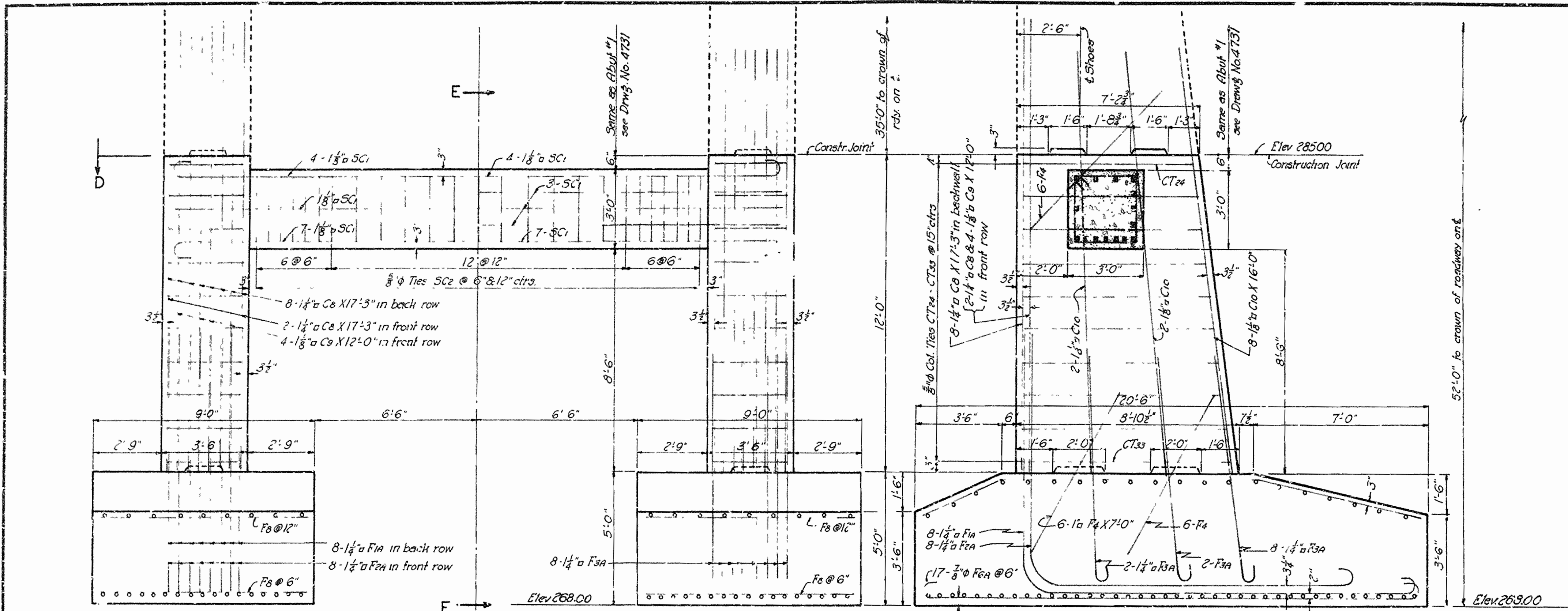
MARK	SIZE	NO. REQ'D.		LENGTH	A	B	C	BENDING DIAGRAM
		ABUT. NO. 1	ABUT. NO. 2					
F1	1 1/4"	16	—	24'-0"	9'-0"	8'-8"	5'-9"	[Bending Diagram for F1 & F2]
F2	1 1/4"	4	—	20'-6"	8'-9"	8'-4"	2'-10"	
F1a	1 1/4"	—	16	22'-0"	9'-9"	15'-8"	—	[Bending Diagram for F1a & F2a]
F1b	1 1/4"	—	16	22'-9"	9'-6"	12'-8"	—	
F3a	1 1/4"	—	24	9'-6"	8'-6"	—	—	[Bending Diagram for F3a & F3b]
F3b	1 1/4"	—	24	8'-0"	7'-0"	—	—	
SC1	1 1/2"	—	15	26'-6"	24'-6"	0'-8"	—	[Bending Diagram for SC1]
H1	1"	5	5	26'-9"	24'-9"	0'-8"	—	
F6a	3/4"	—	34	21'-6"	19'-9"	0'-7"	—	[Bending Diagram for F6a & F6b]
F6b	3/4"	—	2	29'-0"	—	—	—	
F7	3/4"	18	—	18'-6"	15'-0"	3'-6"	—	[Bending Diagram for F7]
F7a	3/4"	4	4	7'-9"	6'-3"	1'-6"	—	
F7b	3/4"	—	18	20'-2"	—	—	—	[Bending Diagram for F7a & F7b]
F9	5/8"	13	—	8'-4"	2'-1 1/2"	1'-7 1/2"	—	
CT1	5/8"	2	2	Varies	3'-1 1/2"	Varies	—	[Bending Diagram for CT1-CT3a]
CT1a	5/8"	2	2	Varies	20'-6"	Varies	—	
CT2a	5/8"	—	2	Varies	20'-6"	Varies	—	
CT3a	5/8"	—	2	Varies	20'-6"	Varies	—	
V2	3/4"	39	39	9'-10"	2'-10 1/2"	1'-8 1/2"	—	[Bending Diagram for V2]
H8	3/4"	6	6	13'-3"	—	—	—	
H9	3/4"	6	6	19'-6"	16'-6"	—	—	[Bending Diagram for H8 & H9]
H10	3/4"	10	10	14'-3"	11'-3"	—	—	
H15	3/4"	2	2	13'-0"	11'-6"	1'-6"	—	[Bending Diagram for H15-H17]
H16	3/4"	2	2	10'-4"	8'-10"	1'-6"	—	
H17	3/4"	2	2	8'-3"	6'-9"	1'-6"	—	[Bending Diagram for H17]
H20	1/2"	4	4	8'-2"	6'-2"	2'-0"	—	
H21	1/2"	2	2	10'-8"	8'-8"	2'-0"	—	[Bending Diagram for H21]
H22	1/2"	2	2	13'-10"	11'-10"	2'-0"	—	
H23	1/2"	4	4	14'-9"	12'-9"	2'-0"	—	[Bending Diagram for H23]
H24	1/2"	2	2	13'-8"	11'-9"	2'-0"	—	
H25	1/2"	2	2	10'-0"	8'-0"	2'-0"	—	[Bending Diagram for H25]
V5	3/4"	16	16	10'-10"	7'-7"	3'-3"	—	
V1	3/4"	25	25	12'-11"	—	—	—	[Bending Diagram for V1]
V3	3/4"	4	4	6'-9"	—	—	—	
V4	3/4"	19	19	4'-0"	—	—	—	[Bending Diagram for V4]
H26	1/2"	4	4	15'-11"	—	—	—	

MARK	SIZE	NO. REQ'D.		LENGTH	MARK	SIZE	NO. REQ'D.		LENGTH
		ABUT. NO. 1	ABUT. NO. 2				ABUT. NO. 1	ABUT. NO. 2	
C1	1 1/2"	12	12	33'-9"	C6	3/4"	8	8	13'-0"
C2	1 1/2"	4	4	17'-6"	C7	3/4"	4	4	9'-0"
C8	1 1/2"	—	20	17'-3"	H5	3/4"	7	7	25'-0"
C9	1 1/2"	—	8	12'-0"	H4	3/4"	9	9	25'-6"
C10	1 1/2"	—	24	16'-0"	H11	3/4"	6	6	4'-6"
C3	1"	12	12	29'-0"	H12	1"	12	12	7'-0"
C4	1"	8	8	17'-6"	H13	1"	2	2	9'-0"
C5	1"	4	4	28'-9"	H4	3/4"	8	8	11'-0"
F4	1"	12	36	7'-0"	H5	3/4"	10	10	25'-2"
F5	1"	10	—	24'-0"	H6	3/4"	1	1	23'-0"
F6	3/4"	112	120	8'-4"	H7	3/4"	2	2	26'-0"

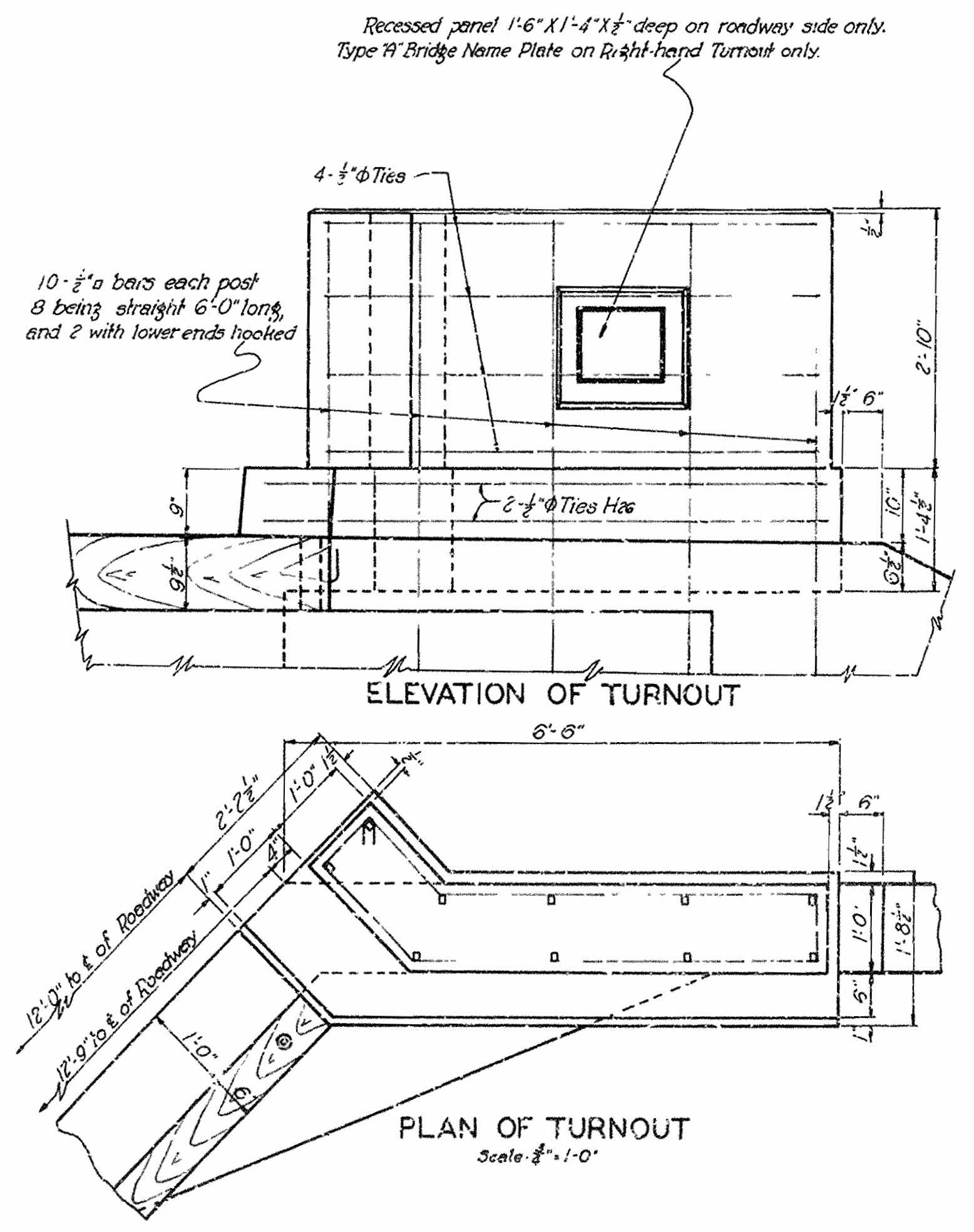
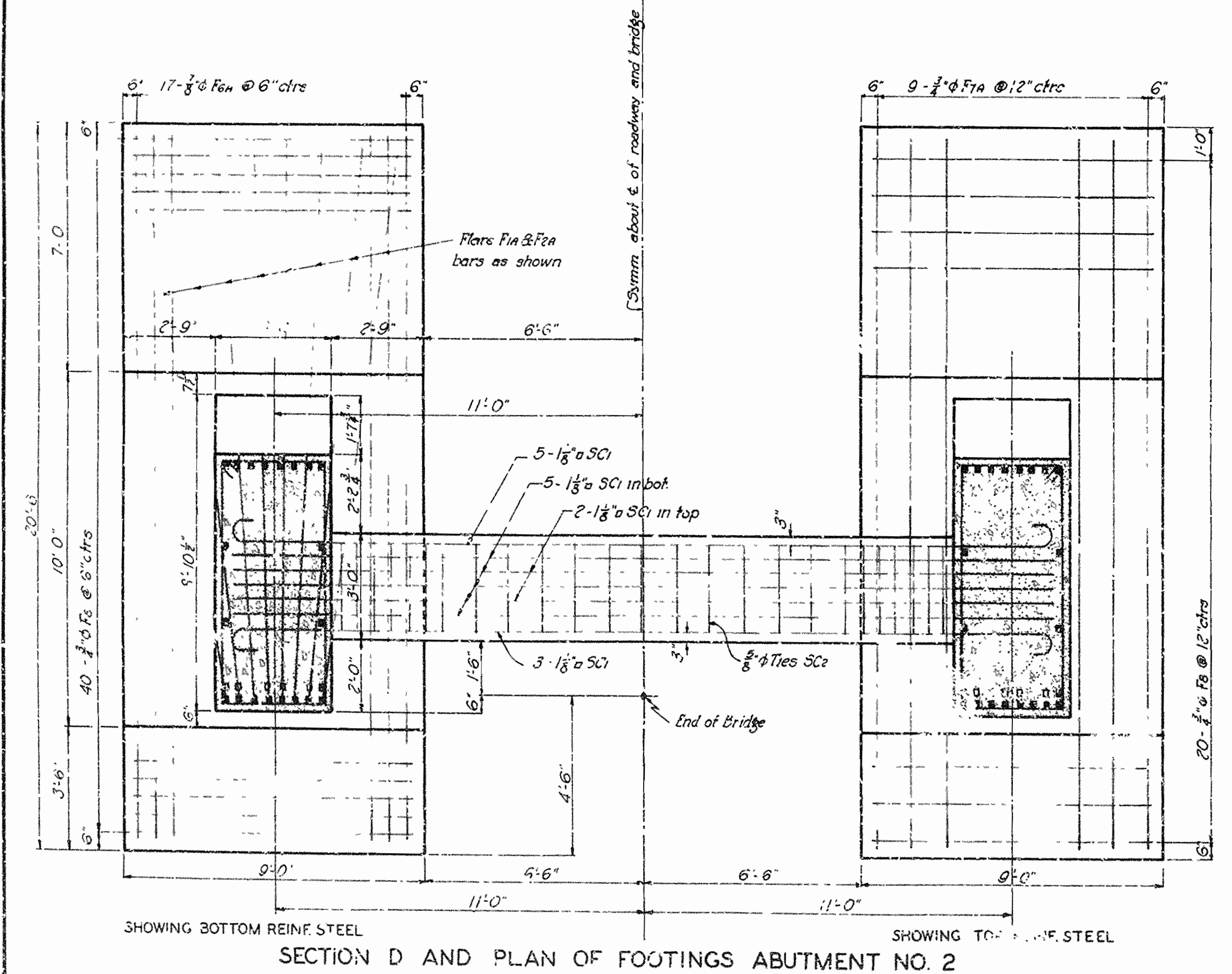
GENERAL NOTES
For "General Notes" See Drawing No. 4721

DETAILS OF ABUTMENT NO. 2
AND BAR LIST & TURNOUT DETAILS FOR ABUTMENTS NO. 1 & 2
BRIDGE OVER LITTLE RED RIVER
AT CANOE CREEK CROSSING
HEBER SPRINGS-BATESVILLE ROAD
CLEBURNE COUNTY
ROUTE 25 SEC. 3.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: W.C.H. Date: 7-14-37
Traced By: [Signature] Date: 7-21-37
Checked By: [Signature] Date: [Blank]
Scale: 3/4" = 1'-0" ft. except as noted
BRIDGE NO. 2042 DRAWING NO. 4733



NOTE: THAT PORTION OF ABUTMENT NO. 2 ABOVE ELEVATION 285.00 IS THE SAME AS ABUTMENT NO. 1



Recessed panel 1'-6" X 1'-4" X 1'-4" deep on roadway side only.
Type "A" Bridge Name Plate on Right-hand Turnout only.

10-#5 bars each post
8 being straight 6'-0" long,
and 2 with lower ends hooked