

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	DANR-1 (Unit 4)		7	22
STATE JOB NO. 7305					

STATE OF ARKANSAS  
STATE HIGHWAY COMMISSION

PLAN OF PROPOSED BRIDGE  
OVER OUACHITA RIVER  
AT CAMDEN, OUACHITA COUNTY

ROUTE 79 SEC. 4  
JOB NO 7305  
DANR-I-(UNIT 4)

INDEX OF SHEETS

SHEET No	DRWG. No	DESCRIPTION
1	6634	Title Sheet Job No. 7305
2	6635	Summary Sheet and Details of Pavement
3	6636	General Plan
4	6637	Layout of Bridge
5	6638	Details of Piers 1 & 4
6	6639	" " " 2 & 3
7	6640	" " " 21' I-Beam Span
8 & 9	6641-6642	" " " Truss Span
10	6643	" " " Bent No. 16
11	6644	" " " 46' I-Beam Span
12	6645	" " " Sidewalks for Existing Beam Spans
13	6647	Cross Section
14	1888	Embankment Construction at Bridge Ends and Backfill for Structures
15	1891	Excavation for Structures
Details of Existing Construction		
16	3477-A	Layout of South Approach
17-18	3478-3479	Special Details of Spans
19-20	3481-3481-A	Details of Swing Span and North Approach
21	3483	" " " Bents
22	2164	" " " 40' I-Beam Spans
23-26	6665-6668	" " " Detour Bridge

ITEM NO	ITEM	QUANTITY	UNIT
102	Common Excavation	273	Cu. Yd.
103	Dry Excavation for Structures	452	Cu. Yd.
103	Wet Excavation for Structures	1,026	Cu. Yd.
SP & 701	Portland Cement Concrete Pavement (9" Uniform)	337.5	Sq. Yd.
702	Reinforcing Steel for Pavement (Bars Bridge End)	1000	Lb.
SP & 802	Class "A" Concrete for Bridges	895.00	Cu. Yd.
SP & 802	Class "S" Concrete for Bridges	358.00	Cu. Yd.
SP & 802	Seal Concrete for Bridges	359.00	Cu. Yd.
SP & 803	Reinforcing Steel	119,000	Lb.
804	Concrete Piling (14 inch square)	1,776	Lin. Ft.
804	Concrete Piling (16 inch octagonal)	163	Lin. Ft.
SP & 807	Structural Steel in Beam Spans	112,700	Lb.
SP & 807	Structural Steel in Truss Spans	576,500	Lb.
810	Untreated Timber Piling	5,320	Lin. Ft.
1002	Removal and Disposal of Concrete Pavement	335	Sq. Yd.
3-R	Removal of Existing Bridge	100% Complete	Item
SP & 805	Concrete Railing	52	Lin. Ft.
SP 925-2	Guard Fence Moved and Reconstructed	220	Lin. Ft.
SP 925-2	Guard Fence Posts	10	Each

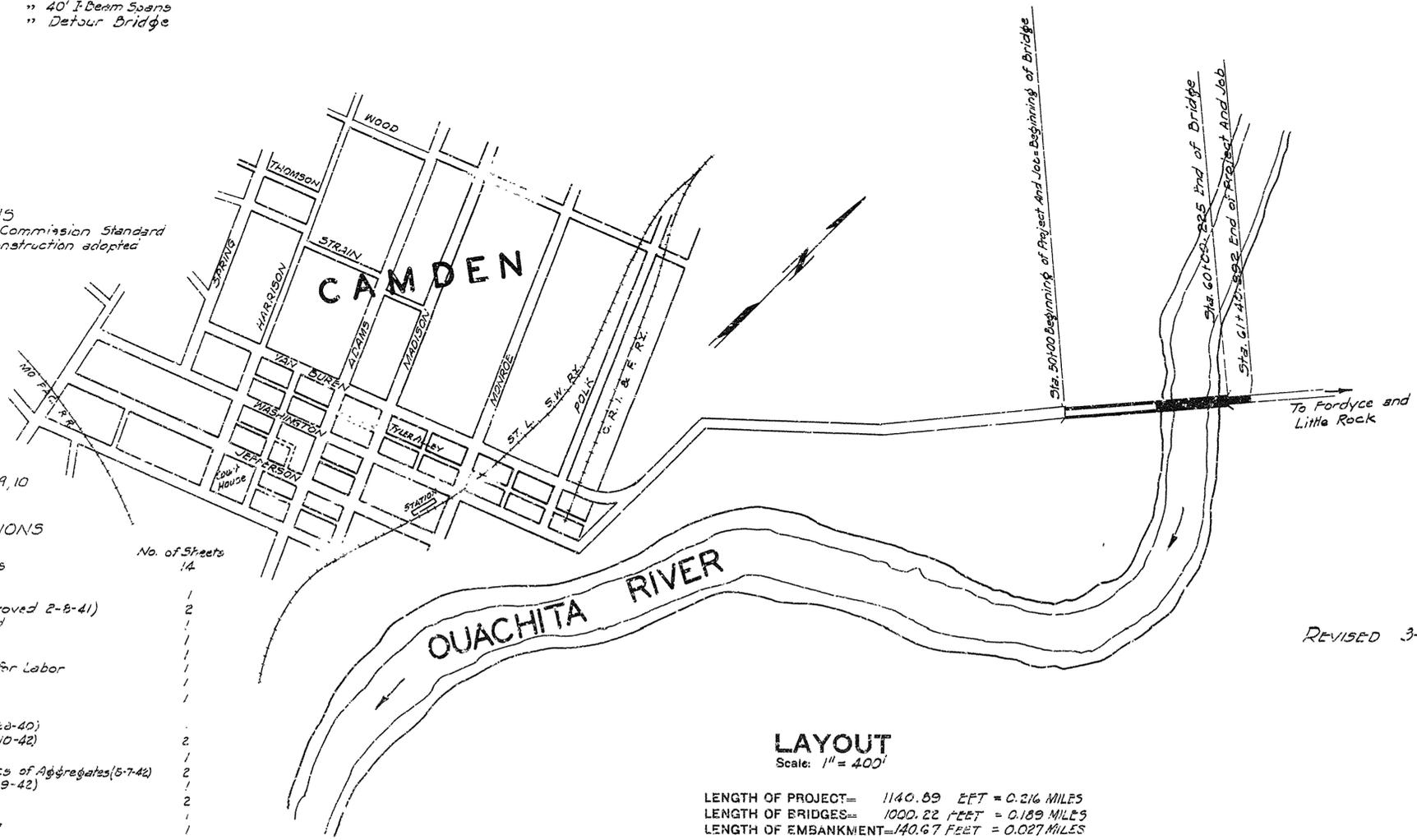
SPECIFICATIONS  
Arkansas State Highway Commission Standard  
Specifications for Road and Bridge Construction adopted  
March 1st, 1940

PAMPHLETS

- Div. I
- Div. II Parts 1, 7, 8a, 8b, 8c, 9, 10
- Div. III
- Div. IV

SPECIAL PROVISIONS

No	Item	No. of Sheets
Required Special Provisions		
2-1	Wages of Labor	1
2-2	Rev. of Article 2.11 (Approved 2-8-41)	2
3-2	Equipment List Required	1
4-1	Award of Contract	1
4-1	Rev. of Art. 4.9	1
5-3	Employment Centers for Labor	1
9-5	Partial Payments	1
9-6	Common Carrier Rates	1
Rev. of Section 701 (8-20-40)		
752-1	" " " 701 (3-10-42)	2
754-1	Curing of Concrete	1
754-1	Physical Characteristics of Aggregates (5-7-42)	2
757-2	Central Mixing Plant (3-9-42)	1
759-1	Memorandum Curing	2
803-1	Rev. of Article 803.21	1
803-3	" " " 803.37	1
850-1	Engineers Field Office	1
853-1	Machine Mixing	1
Job 7305	Removal of Existing Bridge	1
Job 7305	Structural Steel in Beam Spans	1
952-2	Guard Fence Moved and Reconstructed	1
807-4	Rev. of Article 807.29	1
Job 7305	Concrete Railing	1



LAYOUT  
Scale: 1" = 400'

LENGTH OF PROJECT= 1140.89 FEET = 0.216 MILES  
LENGTH OF BRIDGES= 1000.22 FEET = 0.189 MILES  
LENGTH OF EMBANKMENT= 140.67 FEET = 0.027 MILES  
LENGTH OF JOB= 1140.89 FEET = 0.216 MILES

REVISED 3-12-45

RECOMMENDED FOR APPROVAL  
DISTRICT ENGINEER  
PUBLIC ROADS ADMINISTRATION  
FEDERAL WORKS AGENCY

APPROVED  
COMMISSIONER  
PUBLIC ROADS ADMINISTRATION  
FEDERAL WORKS AGENCY

APPROVED  
CHIEF STATE HIGHWAY COMMISSION

APPROVED  
STATE HIGHWAY ENGINEER

M.O. James  
MUNICIPAL HIGHWAY ENGINEER (BRIDGE)

BRIDGE No. 2466

DRAWING No. 6634

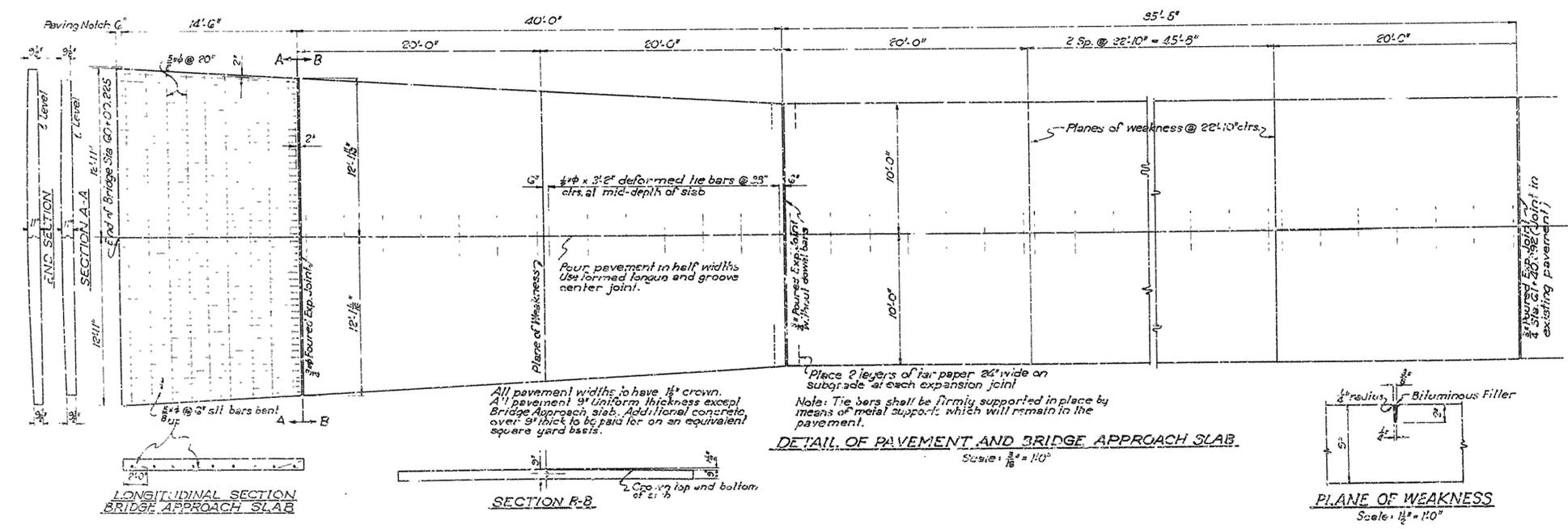
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	DAVIST UNIT 2		2	26
STATE JOB NO. 7305				2	26

SUMMARY OF BRIDGE QUANTITIES (CODE NO. 970)

ITEM No	ITEM	UNIT	Pier No. 1	Piers No. 2&3	Pier No. 4	Bent No. 16	Span No. 1	Spans No. 2 to 13 Incl.	Span No. 14	Span No. 15	Spans No. 16 & 18	Span No. 17	Span No. 19	TOTAL
103	Dry Excavation for Structures	Cu. Yd.	250		160	42								452
103	Wet Excavation for Structures	Cu. Yd.		1,026										1,026
SP&802	Class 'A' Concrete for Bridges	Cu. Yd.	103.45	702.13	79.42									885.00
SP&802	Class 'S' Concrete for Bridges	Cu. Yd.				14.22	3.76	38.28	1.66	15.05	165.29	84.20	35.54	358.00
SP&802	Seal Concrete for Bridges	Cu. Yd.		559.00										559.00
SP&803	Reinforcing Steel	Lb.	7,870	36,058	6,367	1,505	490	5,004	243	2,833	33,570	17,020	8,040	119,000
804	Concrete Piling (14" Square)	Lin. Ft.	768		1,008									1,776
804	Concrete Piling (16" Octagonal)	Lin. Ft.				168								168
SP&807	Structural Steel in Beam Spans	Lb.				560	5,043	51,420	2,642	11,797			41,238	112,700
SP&807	Structural Steel in Truss Spans	Lb.									382,800	193,700		576,500
810	Untreated Timber Piling	Lin. Ft.		5,320										5,320
SP&805	Concrete Railing	Lin. Ft.						52						52
SP	Removal of Existing Bridge	Complete Item												100%

ROADWAY ITEMS (20' CONCRETE PAVEMENT)  
Sta. 60+00.225 Sta. 61+40.892

ITEM No	ITEM	UNIT	QUANTITY
102	Common Excavation	Cu. Yd.	270
SP&701	Portland Cement Concrete Pavement (9" Uniform)	Sq. Yd.	33,750
702	Reinforcing Steel for Pavement (Bars Bridge Ends)	Lb.	1,000
1002	Removal and Disposal of Concrete Pavement	Sq. Yd.	335
SP925-2	Guard Fence Moved and Reconstructed	Lin. Ft.	220
SP925-2	Guard Fence Posts	Each	10



REVISED 3-12-45

SUMMARY SHEET & PAVEMENT DETAILS  
 BRIDGE OVER OUACHITA RIVER  
 CAMDEN, ARKANSAS  
 OUACHITA COUNTY  
 ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.

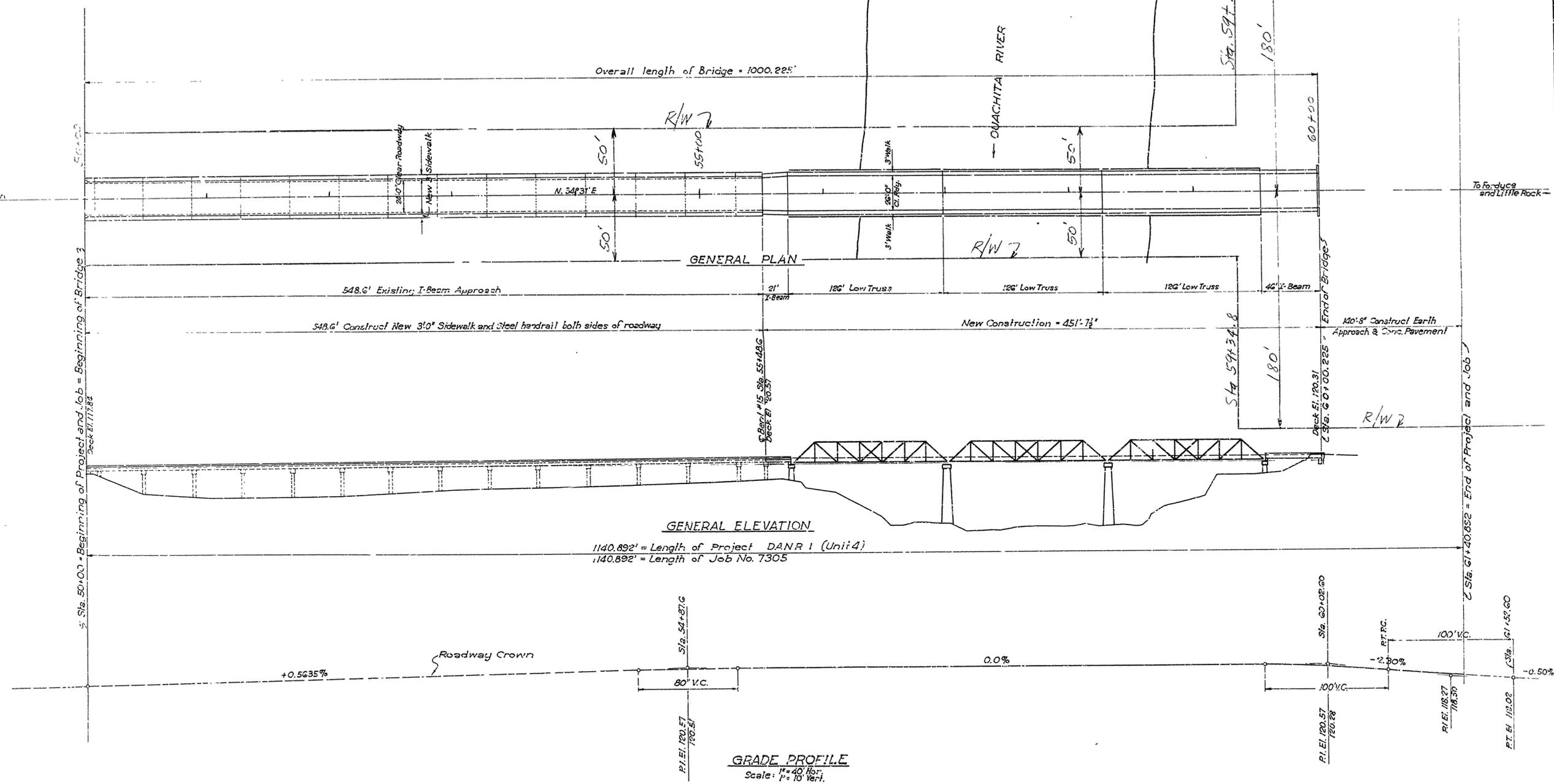
Drawn By: L.P.C. Date: 2-22-45  
 Traced By: E.A.W. Date: 2-3-45  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_

BRIDGE NO. 2466 DRAWING NO. 6635

M.B. Jones  
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
	ARK.	DANR 1		3	26	
STATE JOB NO. 7305					3	26

PRINT CONTRACT No. 12-52(4)



BM Elev. 118.50  
 X on S. End of concrete curb South  
 approach to Ouachita River bridge  
 E.L. of Sta. 50+00.

BM Elev. 154.84 MSL  
 In front of E. wall of SW station  
 South of door to white waiting room.  
 E.L. stamped E-12-1932.

For details of Structure See Drawgs. GG37-GG45 Incl.  
 For Quantity Summary and Pavement Details See Drwg. GG35

Rev. 4-28-45 J.W. Lines

**GENERAL PLAN, ELEVATION  
 AND GRADE PROFILE  
 BRIDGE OVER OUACHITA RIVER  
 CAMDEN, ARKANSAS  
 OUACHITA COUNTY  
 ROUTE 79 SEC. 4**

**ARKANSAS STATE HIGHWAY COMMISSION**  
 LITTLE ROCK, ARK.

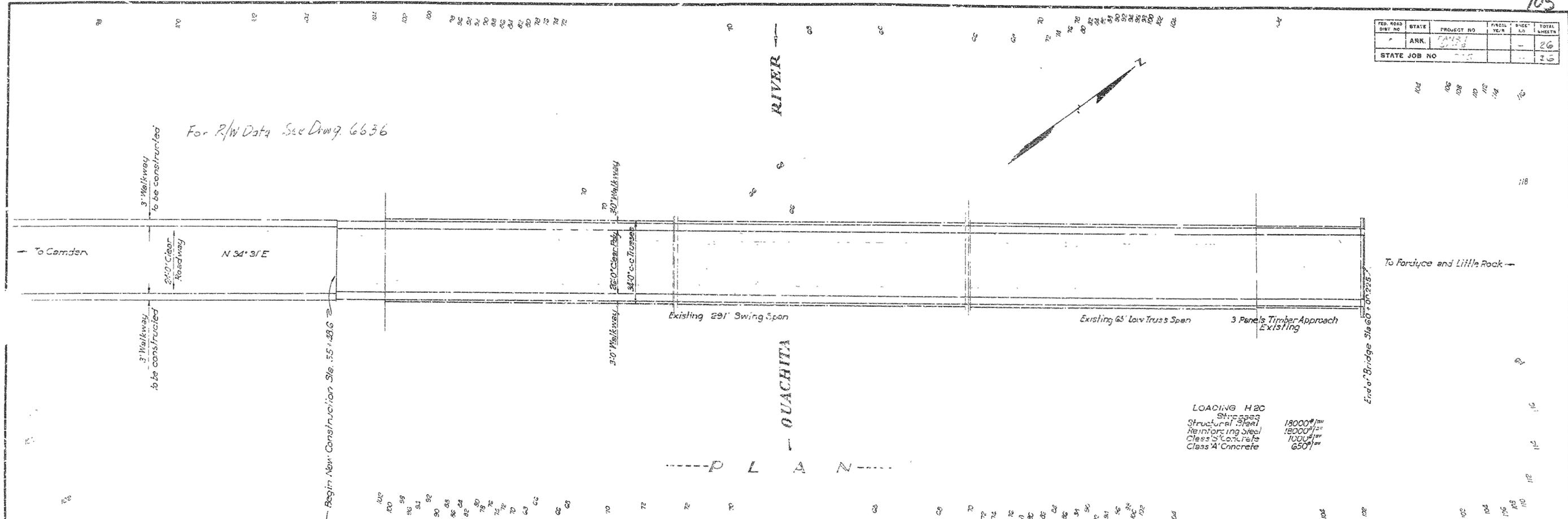
Drawn By: E.A.W. Date: 1-23-45  
 Traced By: E.A.W. Date: 2-1-45  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_

Scale: 1 in. = 20 ft. and as noted

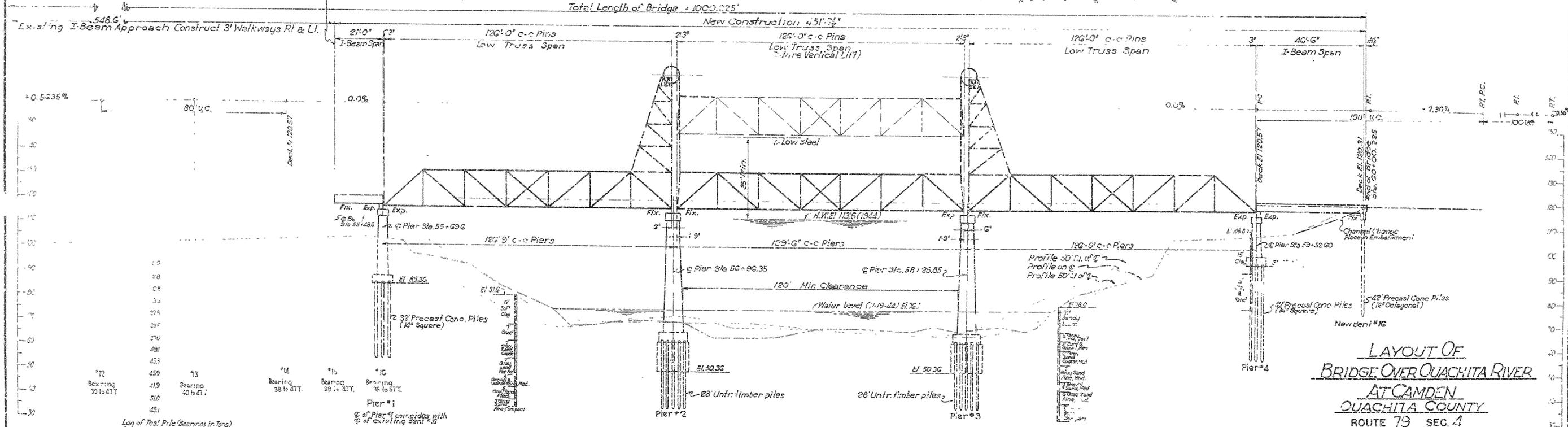
BRIDGE NO. 2466 DRAWING NO. G.C.36

*E.A.W.*  
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
	ARK.	73-4	26	26
STATE JOB NO.		73-4	26	26



LOADING H 20  
 Stresses  
 Structural Steel 18000#/sq  
 Reinforcing Steel 18000#/sq  
 Class 'C' Concrete 1000#/sq  
 Class 'A' Concrete 6500#/sq



LAYOUT OF  
 BRIDGE OVER OUACHITA RIVER  
 AT CAMDEN  
 OUACHITA COUNTY  
 ROUTE 73 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 Drawn By: E.A.W. Date: 11-23-24  
 Traced By: E.A.W. Date: 12-2-24  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 BRIDGE NO. 2466 DRAWING NO. 6637

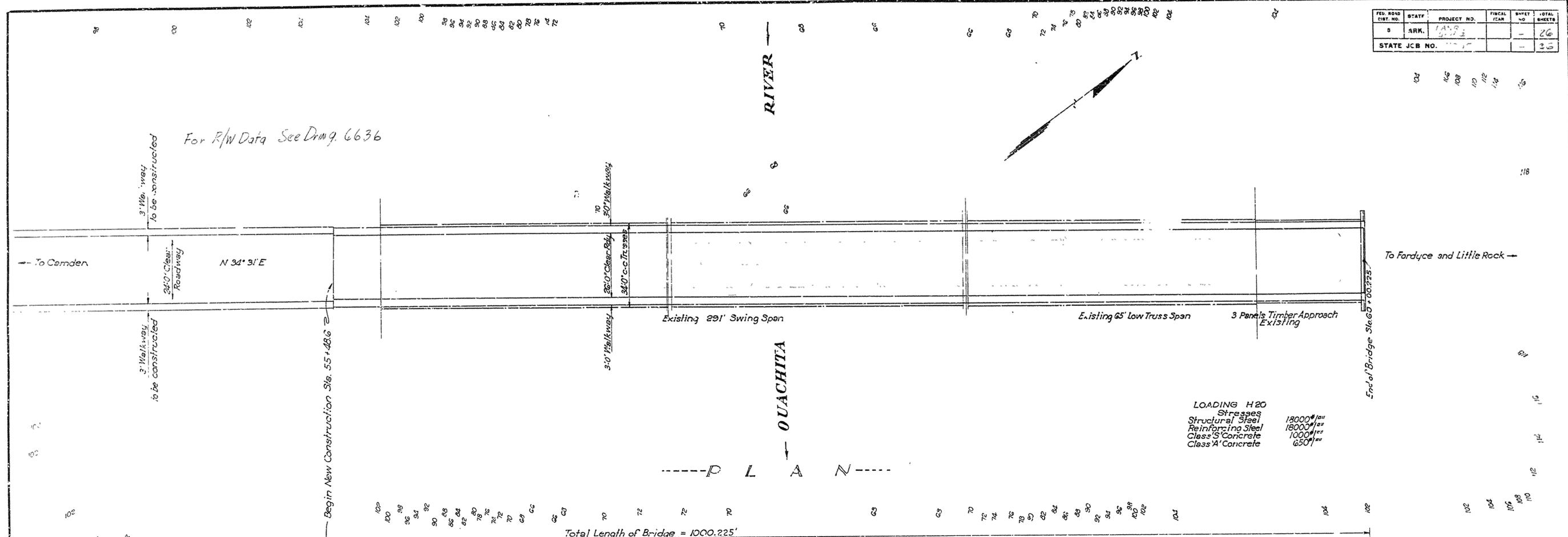
General Notes:  
 Lengths of piling shown are assumed for estimating purposes only. Actual lengths are to be determined in the field.  
 Drive one pile in Pier #2 and one pile in end bent as test piles.  
 For details of Piers 1 and 4 See Drawg. No. 6638  
 For details of Piers 2 and 3 See Drawg. No. 6639  
 For details of End Bent See Drawg. No. 6640  
 For details of I-Beam Span See Drawg. No. 6644  
 For details of Low Truss Span See Drawg. No. 6645  
 For details of Sidewalk Steel rail on Approach See Drawg. No. 6645

Loc of Test Pile (Bearings in Tons)  
 Driven 30' to 41' from 11/23/24, 3, 636  
 41' Precast Conc. Pile with 30' timber follower.

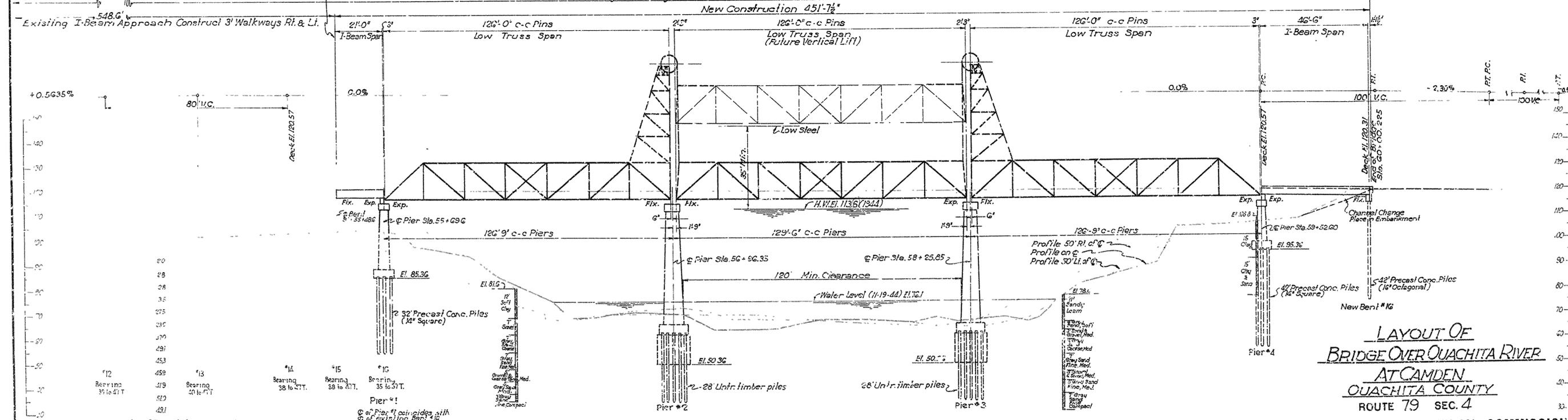
B.M. X in South End of concrete curb South approach to Ouachita River bridge 'LL' of Sta. 50+00  
 Elev. 116.50  
 B.M. in front of E. wall S.L. SW station 1' south of door to white waiting room. Stamped E-10-1932.  
 Elev. 154.81 MSL

E.A.W.  
 PRINCIPAL CONSULTING ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	ARK.	1A-23		26	26
STATE JOB NO.					26



LOADING H20  
Stresses  
Structural Steel 18000#/sq  
Reinforcing Steel 18000#/sq  
Class 'S' Concrete 1000#/sq  
Class 'A' Concrete 650#/sq



-----E L E V A T I O N-----

LAYOUT OF  
BRIDGE OVER OUACHITA RIVER  
AT CAMDEN  
OUACHITA COUNTY  
ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
Drawn By: F.A.W. Date: 11-28-44  
Traced By: E.A.W. Date: 12-2-44  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
BRIDGE NO. 2466 DRAWING NO. 6637

For R/W Data See Dwg. 6636

Total Length of Bridge = 1000.225'

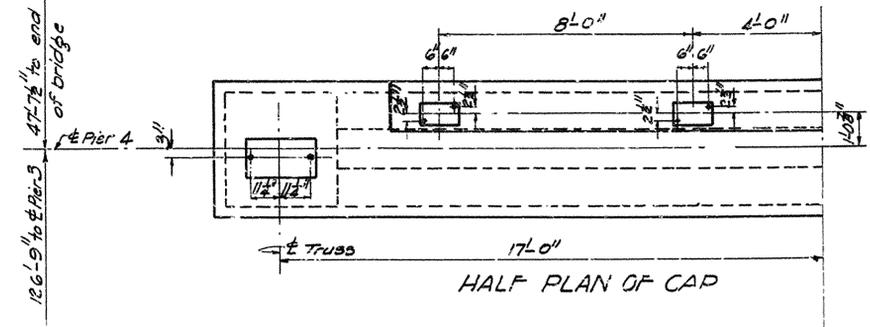
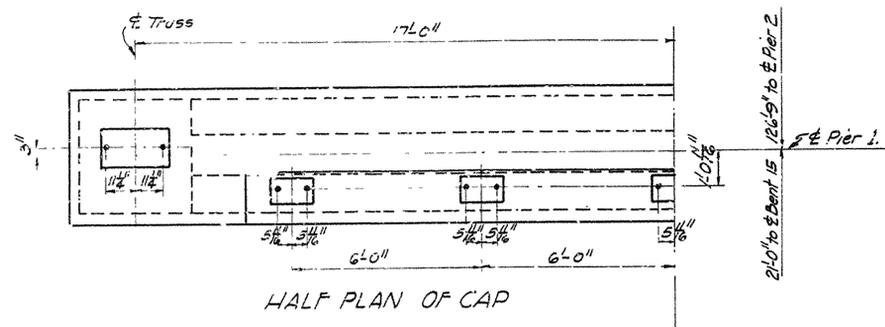
Log of Test Piles (Bearings in tons)  
7/11/44 30' U of C Bent #13 Feb 3, 1944  
40' Precast Conc. Pile with 30' timber pilover.

BM Elev. 118.50  
on South End of concrete curb  
South approach to Ouachita River  
bridge at Sta. 50+00  
BM Elev. 154.84 MSL  
in front of E. wall S.L. SW station  
south of door to white waiting  
room stamped E-12-332.

General Notes:  
Lengths of piling shown are assumed for estimating purposes only. Actual lengths are to be determined in the field.  
Drive one pile in Pier 3 and one pile in End Bent as test piles.  
For details of Piers 1 and 2 See Dwg. No. 6638  
For details of Piers 2 and 3 See Dwg. No. 6639  
For details of End Bent See Dwg. No. 6643  
For details of T-Beam Span See Dwg. No. 6640  
For details of 46' T-Beam Span See Dwg. No. 6644  
For details of 126' Low Truss Span See Dwg. No. 6641-6642  
For details of Sidewalk Steel rail on Approach See Dwg. No. 6645

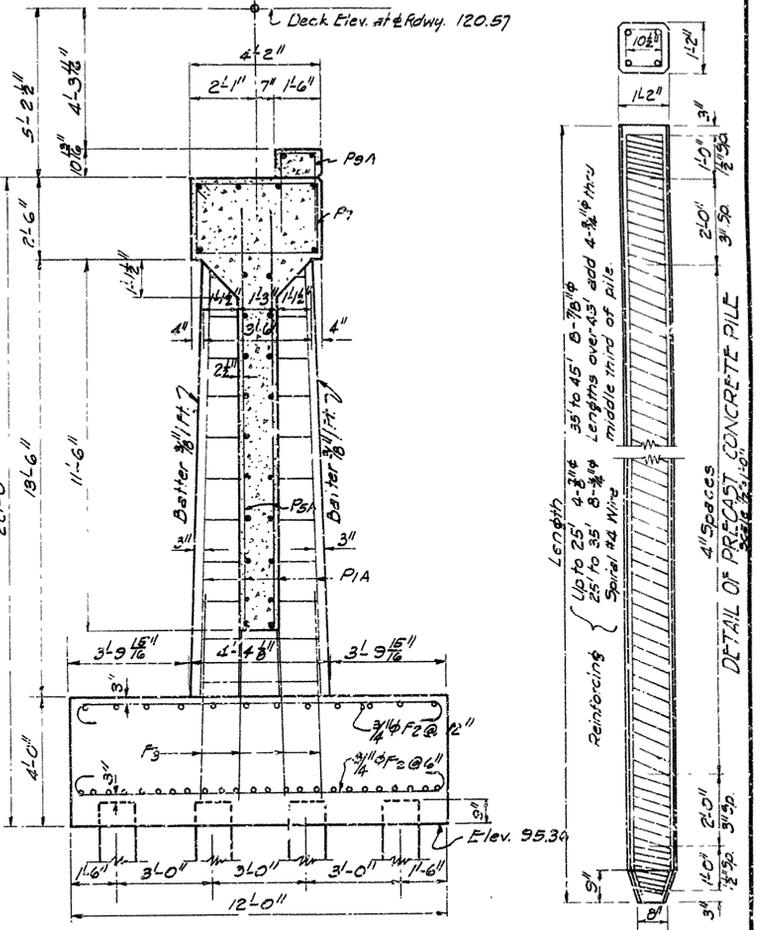
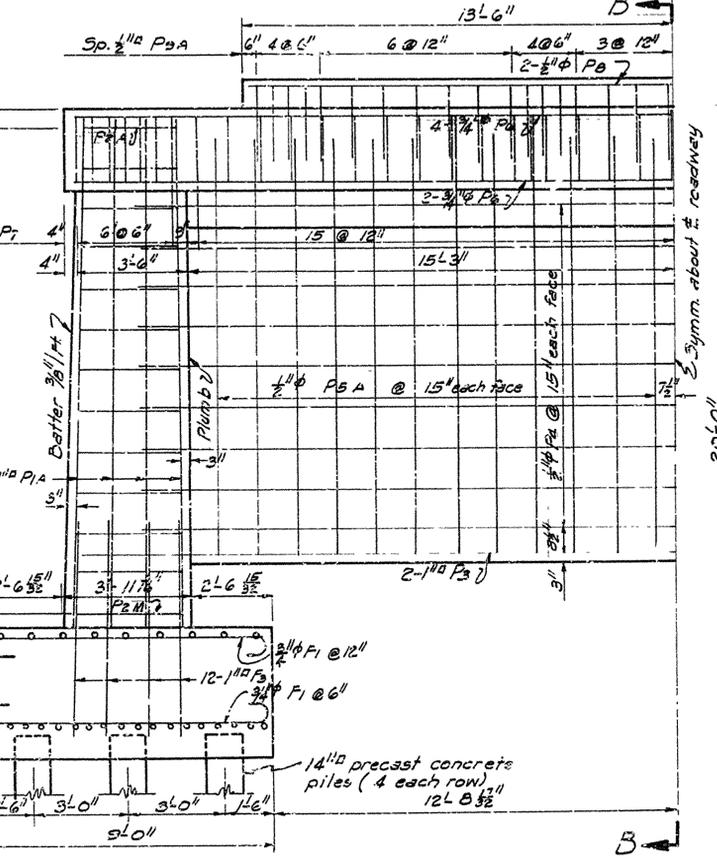
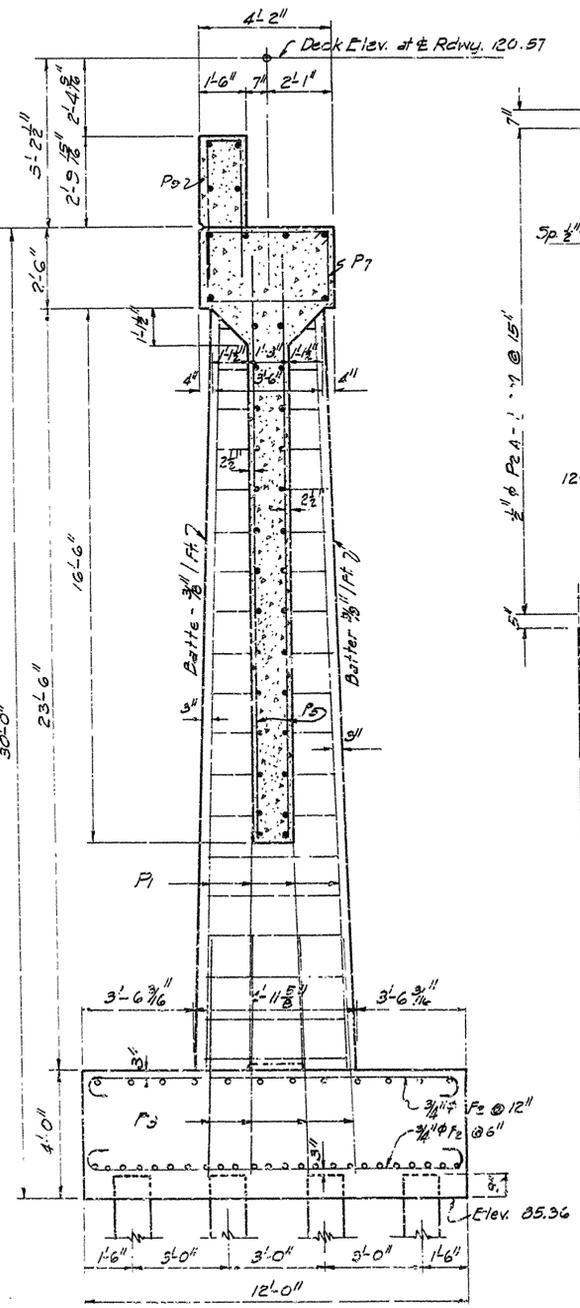
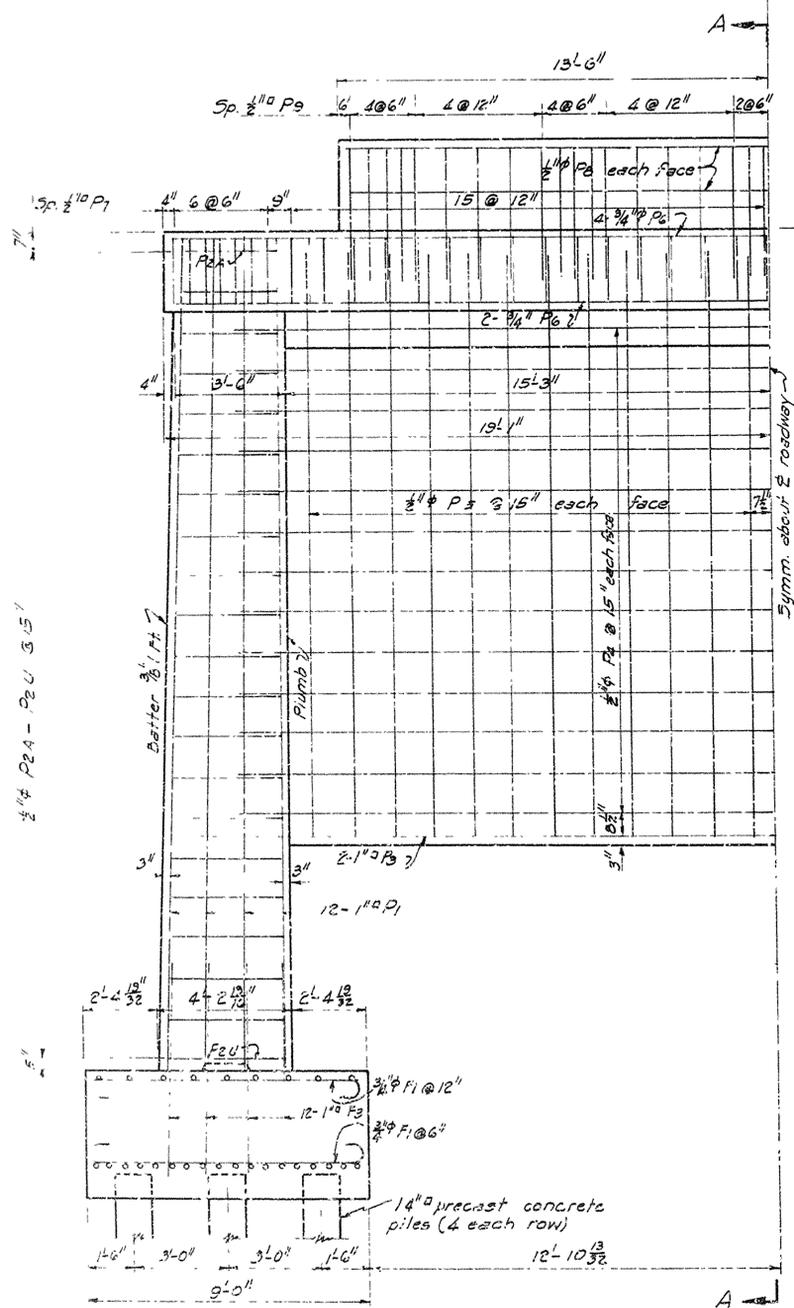
J.P. [Signature]  
PRINCIPAL HIGHWAY ENGINEER (BRIDGES)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
5	ARK.	DANR-1 (Unit 4)		5	26	
STATE JOB NO. 7305					5	26



LIST OF BENT BARS

Mark	Size	Length	A	B	Bending Diagram
F1	3/4" φ	10'-2"	8'-8"	6"	A
F2	3/4" φ	13'-2"	11'-8"	6"	
P2A To P2U	1/2" φ	Ave 15'-2"	3'-0" TO 3'-10 3/4"	3'-0" TO 4'-6 3/4"	B
P7	1/2" φ	12'-7"	3'-9 1/2"	2'-1 1/2"	
P3	1/2" φ	9'-10"	4'-4"	1'-2"	P3, P3A
P3A	1/2" φ	6'-0"	2'-5"	1'-2"	



GENERAL NOTES:-

All concrete to be Class 'A'. All exposed corners to have 3/4" chamfer. All concrete to be poured in the dry. Construction joints where permitted shall be horizontal and be provided with 3" keys. Keys in walls to be continuous and occupy the middle third of the width. Keys in columns to occupy the middle third of each dimension.

Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams shall be submitted by contractor, and approval secured before fabrication is begun. Dimensions relating to reinforcing steel are to centers of bars.

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

Maximum bearing on foundation piling.  
Without wind load 25 Tons per pile  
Including " " " 28 Tons per pile

DETAILS OF PIERS 1 & 4  
BRIDGE OVER OUACHITA RIVER  
AT CAMDEN-OUACHITA COUNTY  
ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

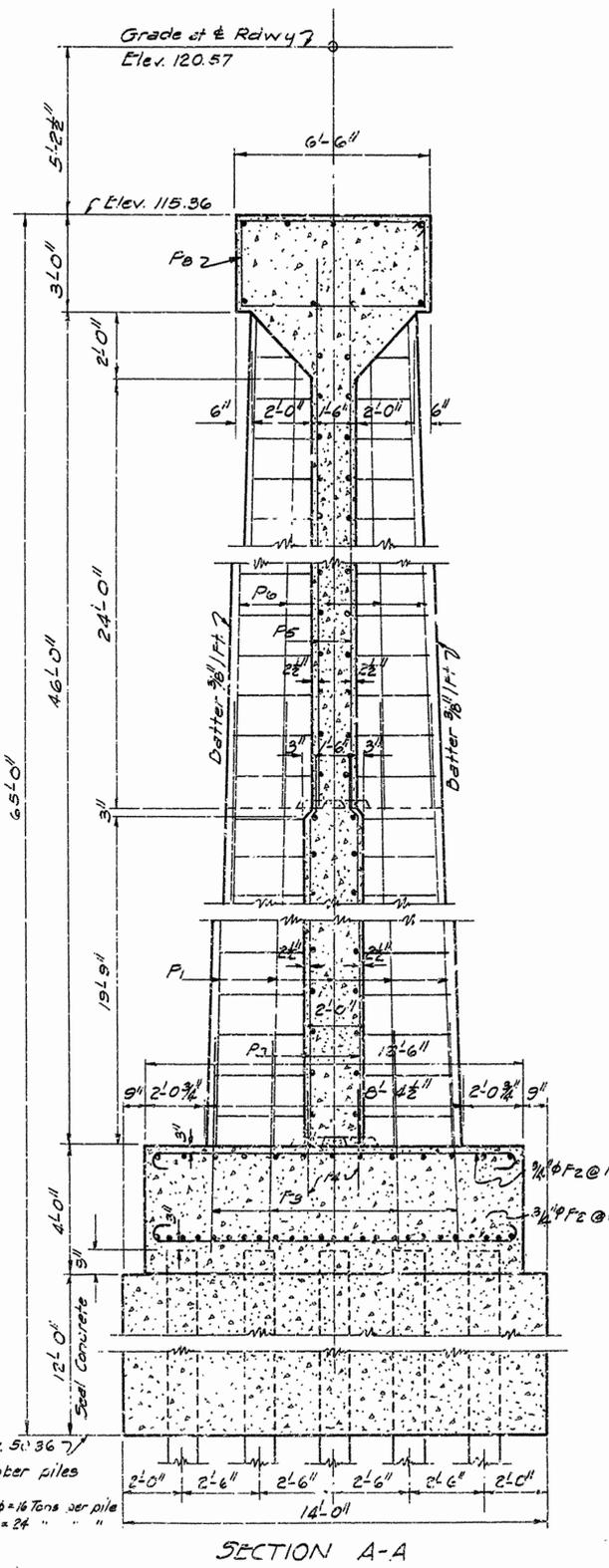
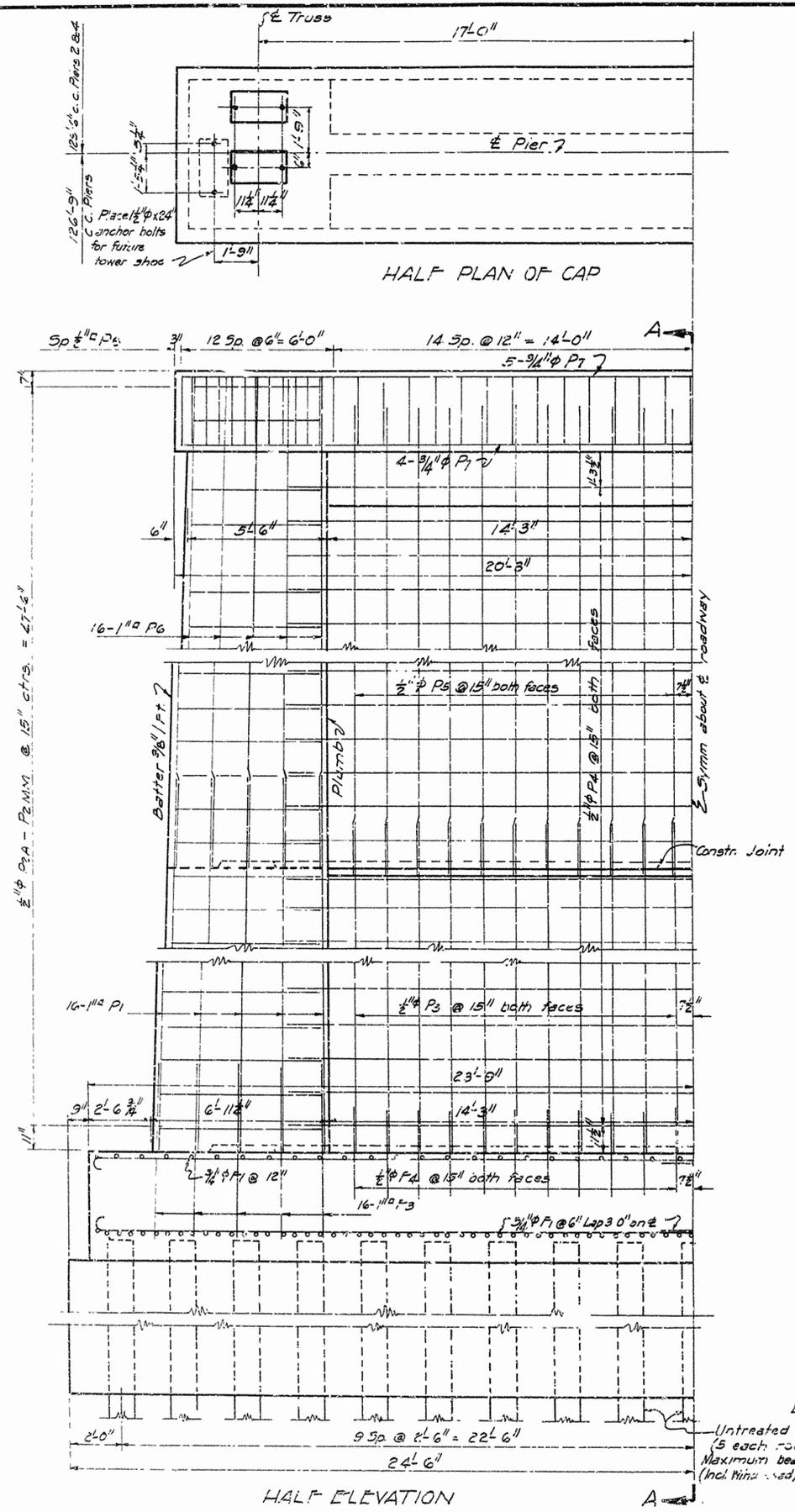
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Traced By: L.A.M.F. Date: 2-1-45  
Checked By: Date: \_\_\_\_\_

BRIDGE NO. 2466 DRAWING NO. 6638

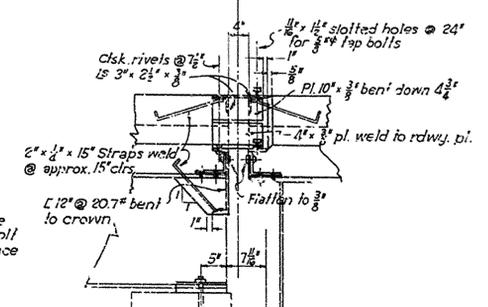
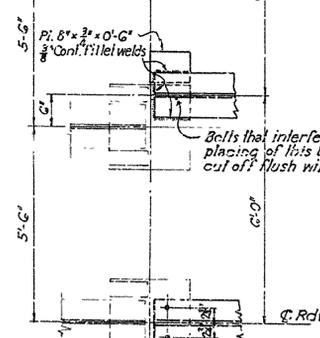
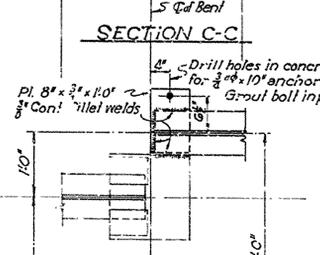
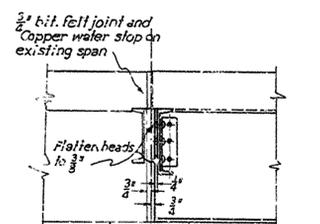
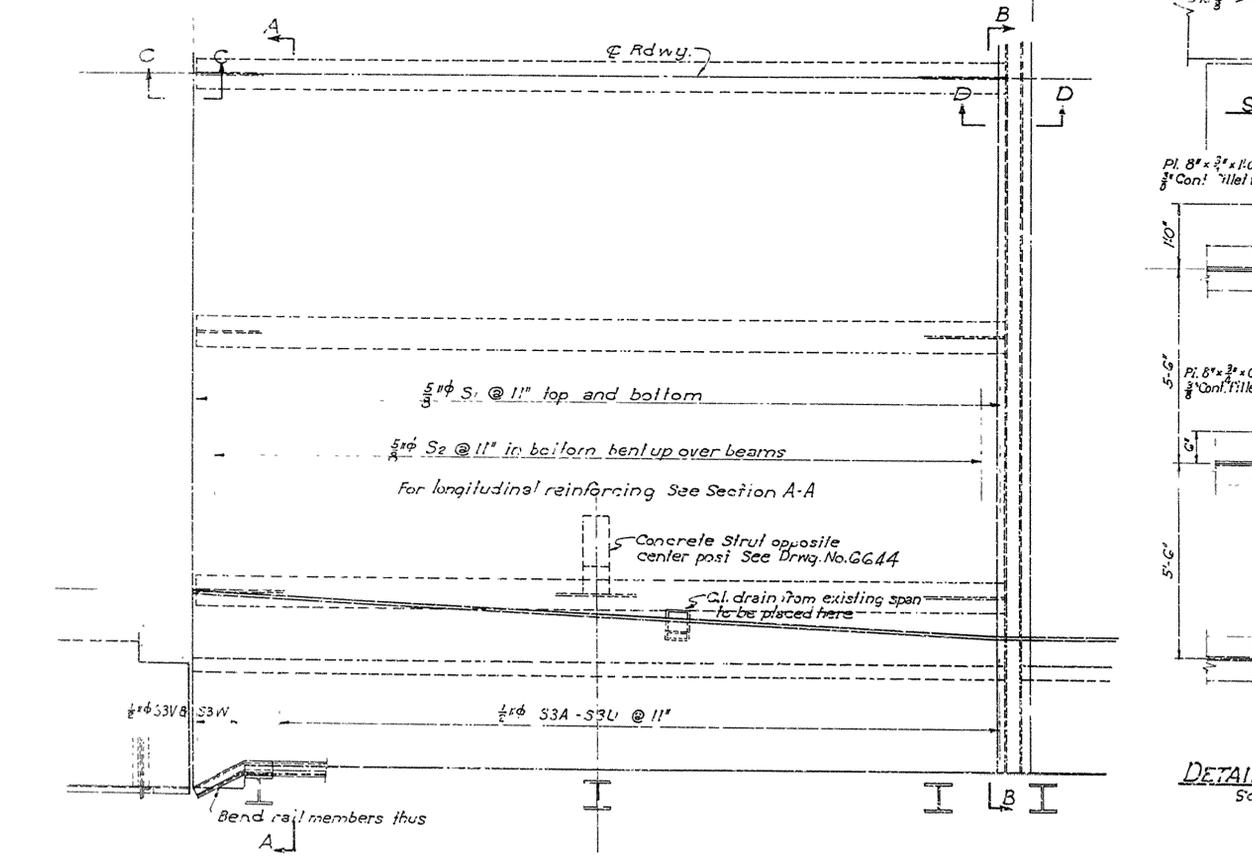
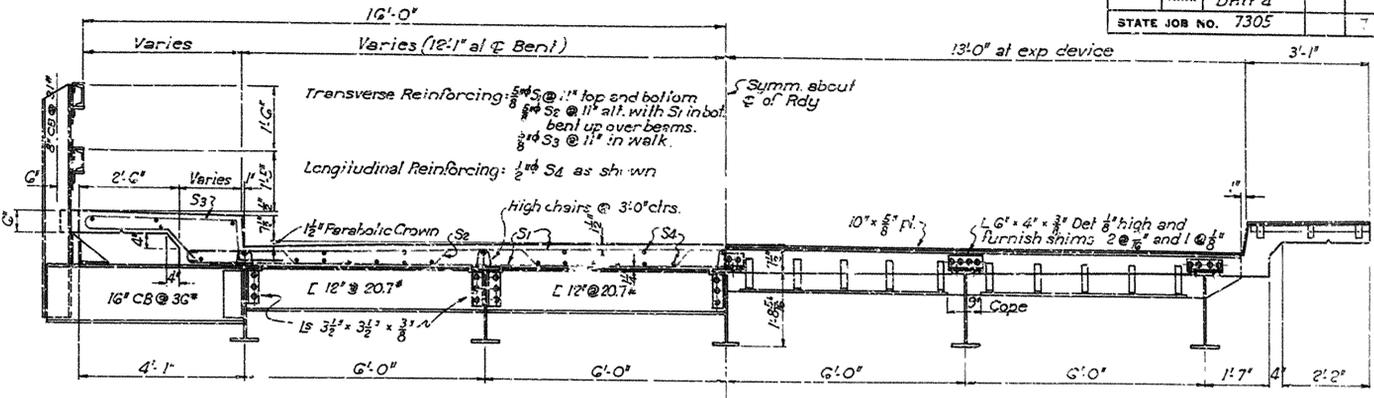
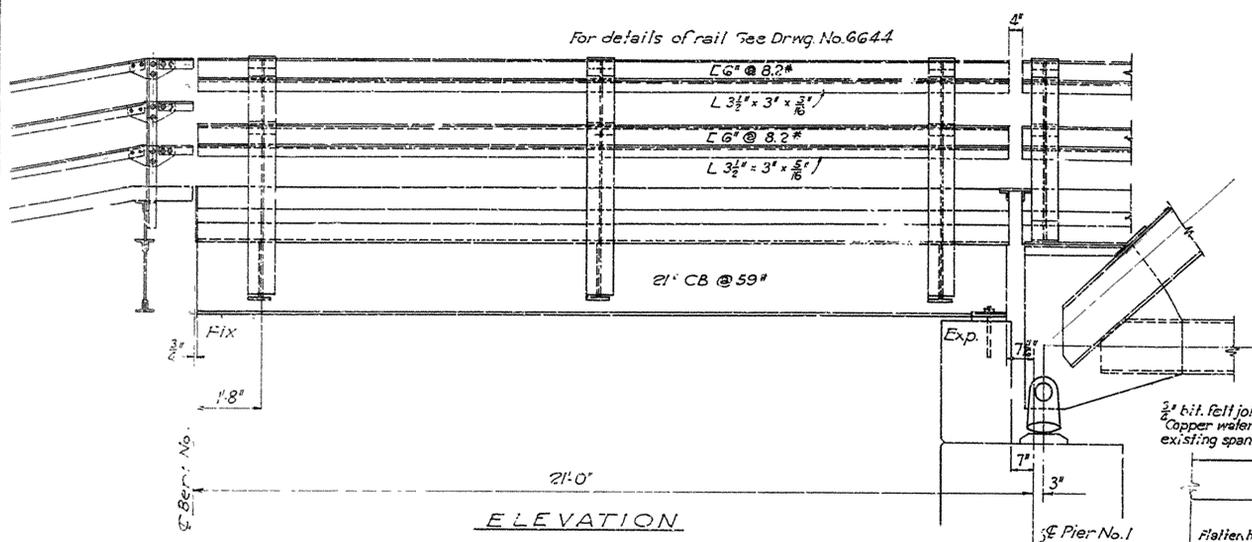
Scale: 3/8" = 1'

M. W. Garver  
PRINCIPAL HIGHWAY ENGINEER (BRIDGES)

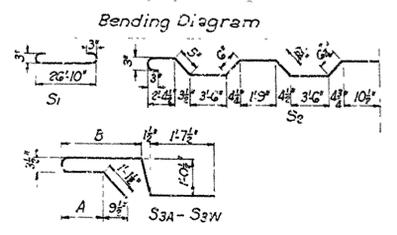
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
0	ARK.	2ANR(Chit 4)		6	26	
STATC JOB NO. 7305					6	76



FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	ARK.	CANF 10114		7	25
STATE JOB NO. 7305					



Mark	Size	Length	A	B
S1	5/8"	27'-7"		
S2	5/8"	28'-9"		
S3A	1/2"	Ave. 8'-11 1/2"	2'-0"	2'-3 1/2"
S3U	1/2"	10'-5 1/2"	2'-0"	4'-3"
S3V	1/2"	10'-6"	2'-0"	4'-3 1/2"
S3W	1/2"	10'-6"	2'-0"	4'-3 1/2"



Note: For general notes and for typical details not shown on this sheet See Drwg. No. 6644.

LOAD DISTRIBUTION TO BEAMS

	Dead Load	Roadway Live Load	Sidewalk Live Load
INTERIOR BEAMS	750#	1.2 Wheels or 0.6 Lane	
OUTSIDE BEAMS	1030#	2.75 Wheels or 0.35 Lane	300#

Design Live Load H 20

UNIT STRESSES  
 Class 'S' Concrete = 1000 #/sq in. 11 x 10  
 Reinforcing Steel = 18000 #/sq in.  
 Structural Steel = 18000 #/sq in.

DETAILS OF  
 21' I-BEAM SPAN  
 BRIDGE OVER OJACHITA RIVER  
 CAMDEN, ARKANSAS  
 QUACHITA COUNTY  
 ROUTE 79 SEC. 4

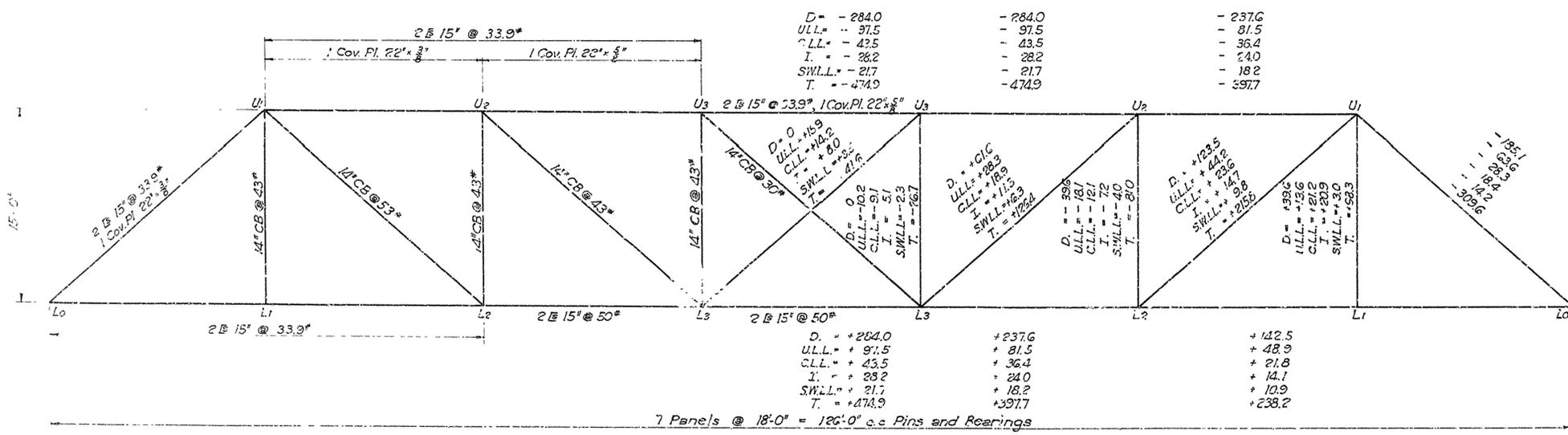
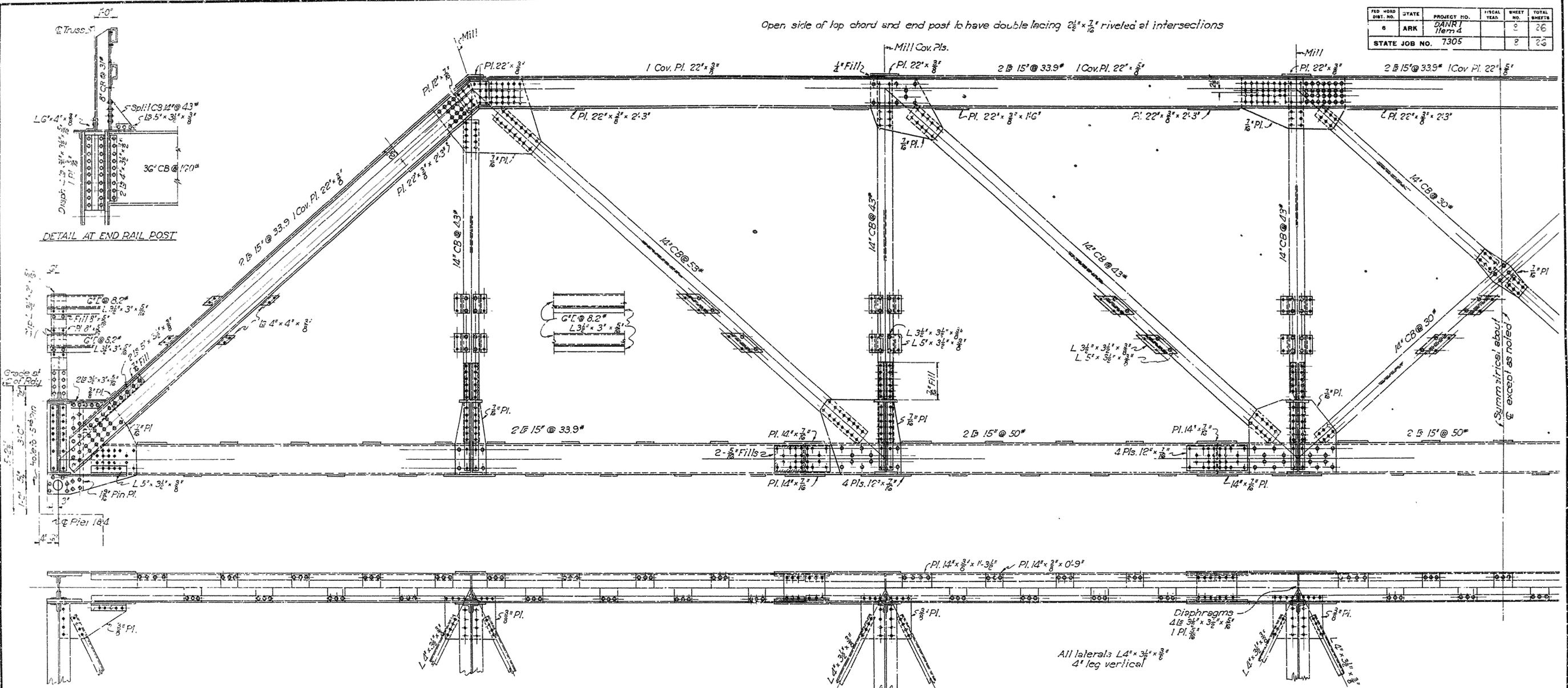
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 LITTLE ROCK, ARK.  
 Drawn By: L.P.C. Date: 12-27-44  
 Traced By: R.A.W. Date: 1-22-45  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Scale: 1/2" = 1'-0" and as noted

N.B. Gann  
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

BRIDGE NO. 2466 DRAWING NO. 6640

FED. ROAD DIST. NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
6	ARK	DARR 11774		8	26
STATE JOB NO. 7305					

Open side of top chord and end post to have double lacing  $2\frac{1}{2}'' \times \frac{7}{16}''$  riveted at intersections

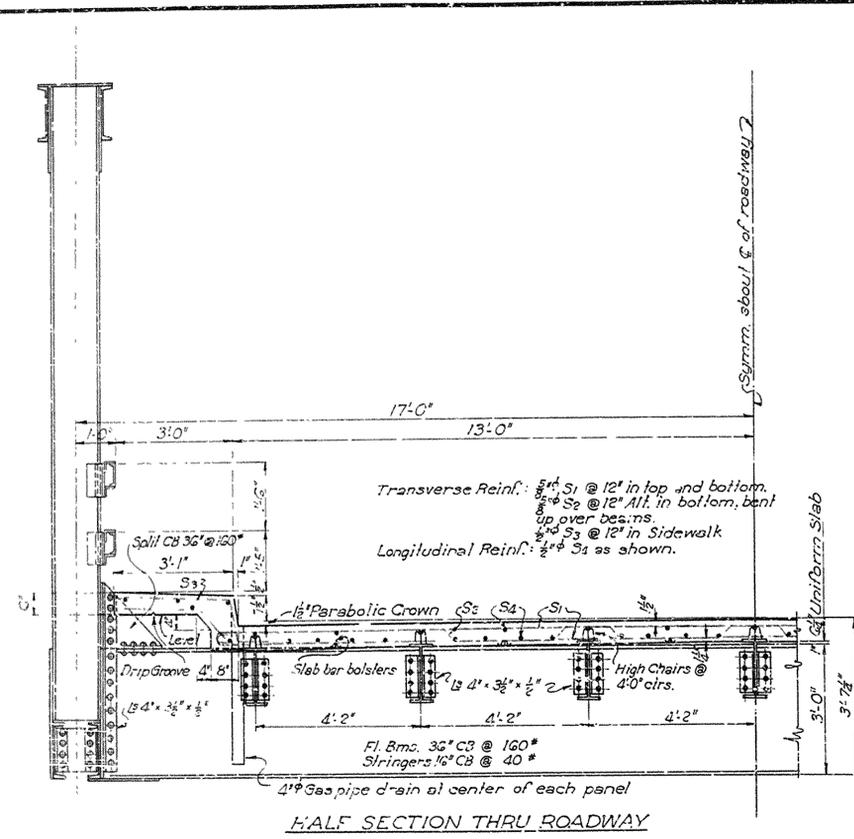


SHEET 1 OF 2  
**TRUSS DETAILS**  
 BRIDGE OVER OUACHITA RIV. R  
 CAMDEN, ARKANSAS  
 QUACHITA COUNTY  
 ROUTE 79 SEC. 4

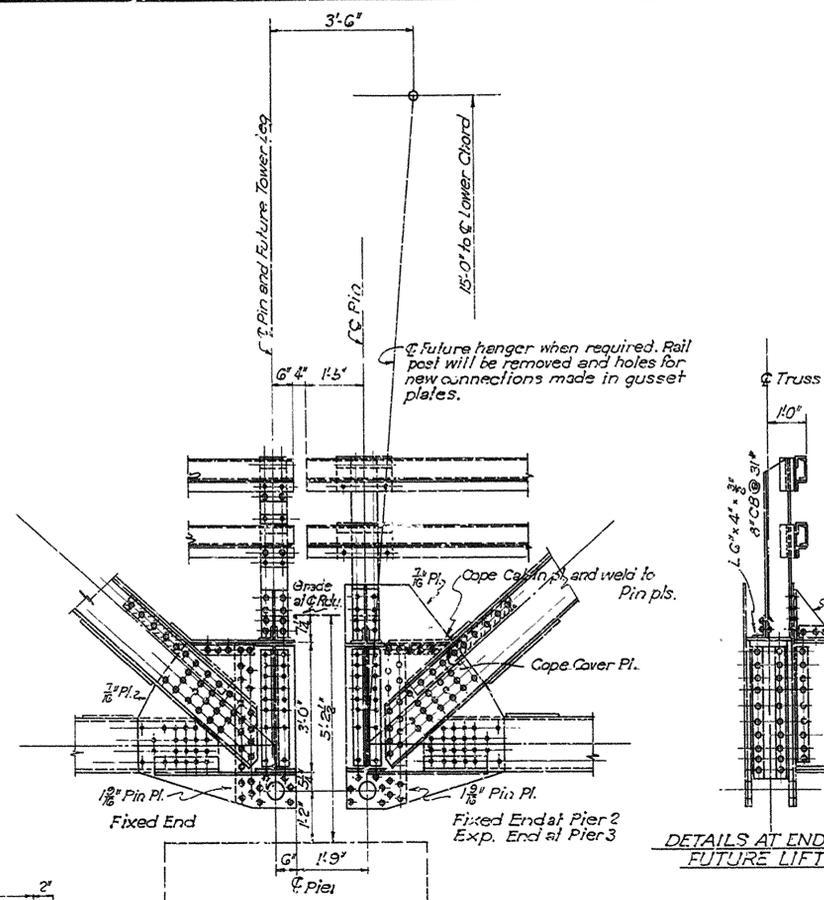
ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 Drawn By: L.P.C. Date: 12-14-44  
 Traced By: E.A.W. Date: 1-11-45  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 BRIDGE NO 2466 DRAWING NO. 6641

M.B. Davis  
 PRINCIPAL HIGHWAY ENGINEER (E.M.P.E.)

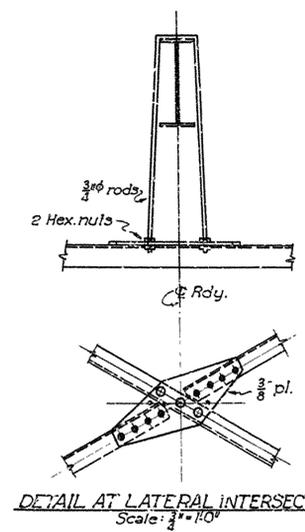
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	DANR 1 Item 4		9	26
STATE JOB NO. 7305				9	26



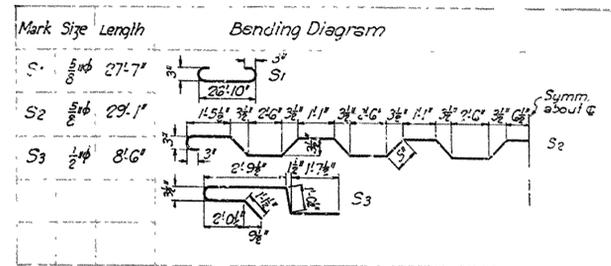
HALF SECTION THRU ROADWAY



TRUSS DETAILS AT PIERS 2 & 3



DETAIL AT LATERAL INTERSECTION Scale: 3/4" = 1'-0"



GENERAL NOTES:

Rivets 1/2" - Open holes 15/16", except in flanges of G.B. Use 5/8" rivets, 1/2" holes. All holes in truss connections to be sub-punched to 1/4" and reamed to size while truss is assembled. This applies to field as well as shop rivets.

Floor beam and stringer connections shall be sub-punched to 1/4" and reamed to a metal template. All field connections shall be riveted. All floor beams and stringers shall be milled to exact length after framing angles have been riveted. Minimum thickness of angle after milling shall be 1/8" inch.

Floor Slab: Concrete to be Class 'S'. 1/4" has been added for wear.

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

Field Paint: First coat, White lead tinted with lamp black. 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 lesser weight.

This drawing shows general features of design only. Shop drawings shall be made in compliance with specifications, submitted and approved before fabrication is begun.

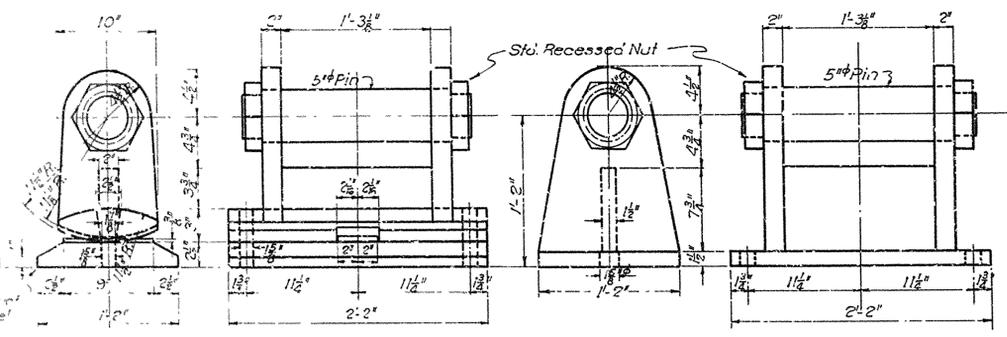
Trusses shall be cambered for dead load.

All shoe material including anchor bolts, expansion devices and gas pipe drains to be paid for as "Structural Steel in Truss Spans". Drains to be painted.

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

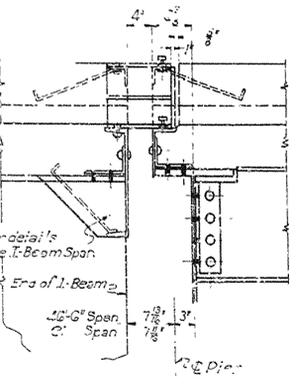
UNIT STRESSES: Concrete 1000 #/sq in n=10  
 Reinforcing Steel 18000 #/sq in  
 Structural Steel 18000 #/sq in

LOADING: H 20

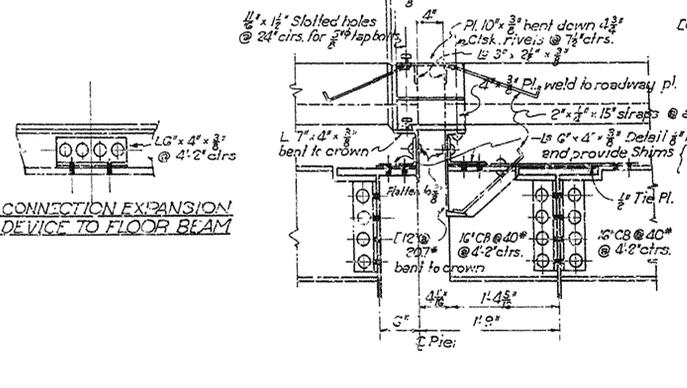


DETAILS OF BEARING DEVICES

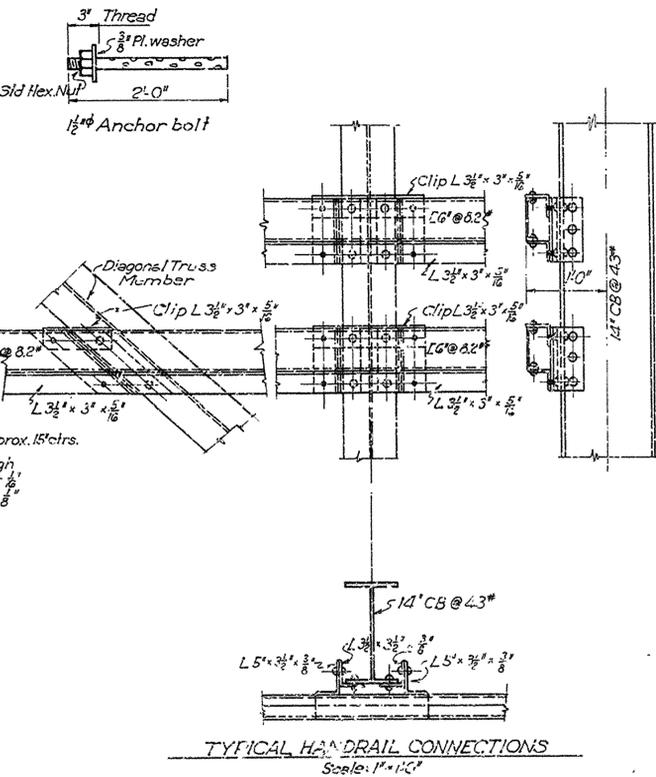
Shoes may be of cast steel or built up from structural steel except as noted.



EXPANSION DEVICE AT PIERS 1 & 4



EXPANSION DEVICE AT PIERS 2 & 3



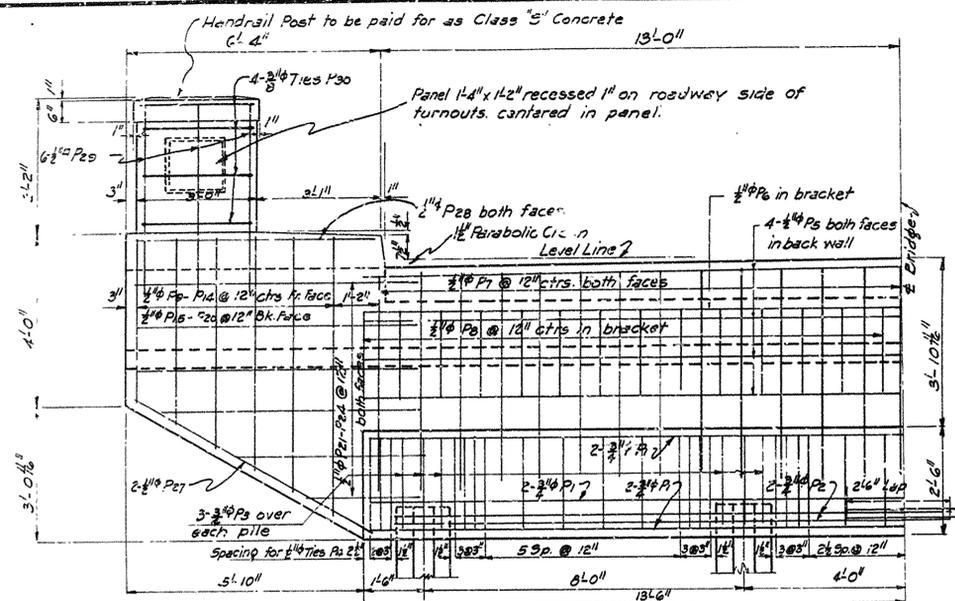
TYPICAL HANDRAIL CONNECTIONS

SHEET 2 OF 2  
**TRUSS DETAILS**  
 BRIDGE OVER OUACHITA RIVER  
 CAMDEN ARKANSAS  
 OUACHITA COUNTY  
 ROUTE 79 SEC. 4

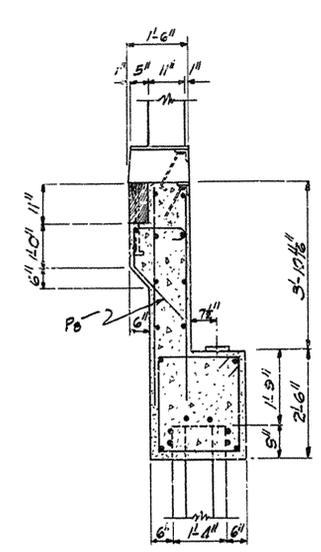
ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 Drawn By: *E.A.W.* Date: 12-18-44  
 Traced By: *E.A.W.* Date: 1-18-45  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 BRIDGE NO. 2466 DRAWING NO. 6642

*E.A.W.*  
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

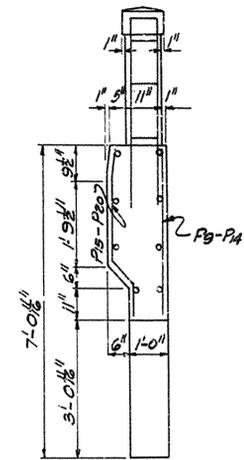
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	ARK.	DARR-1 (Unit 4)		10	26	
STATE JOB NO. 1305					10	26



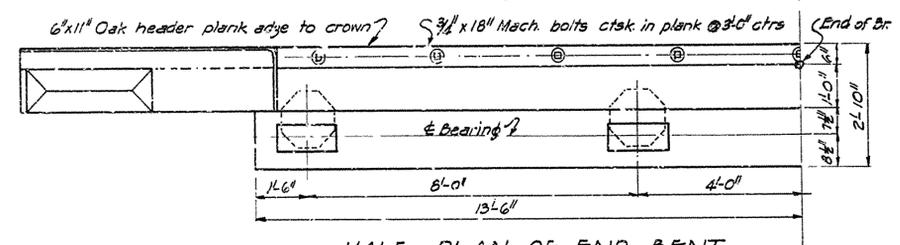
HALF FRONT ELEVATION END BENT  
Scale 1/2" = 1'-0"



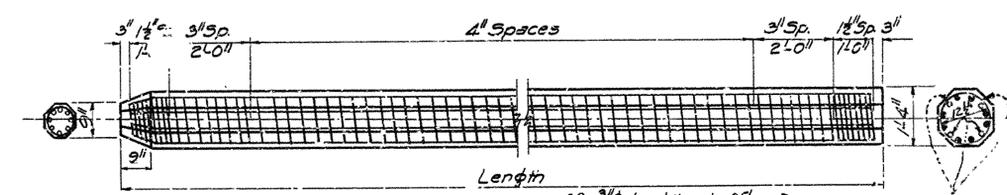
SECTION NEAR CURB



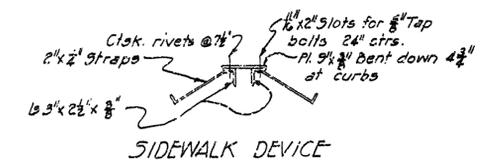
END VIEW



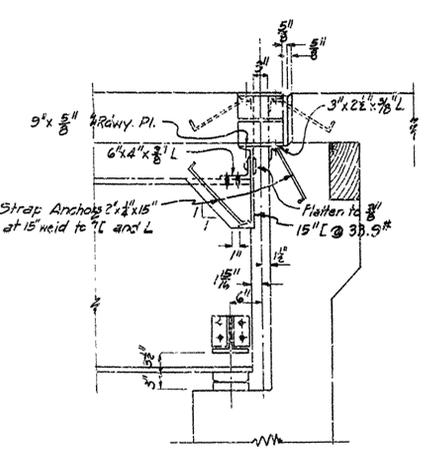
HALF PLAN OF END BENT



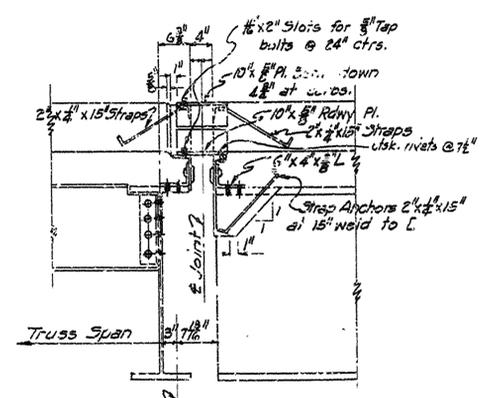
DETAILS OF 16" PRECAST CONCRETE PILE  
Reinforcing: Vertical bars { 8-#4 Lengths to 35' } Spiral #4 Wires  
For lengths over 45' Add 4-#4 thru middle third of pile



SIDEWALK DEVICE



SECTION C-C  
Scale 3/4" = 1'-0"



EXPANSION DEVICE AT PIER NO. 4  
Scale 3/4" = 1'-0"

Mark	Size	Length	A	B	C	Bending Diagram
P2	3/4" φ	29'-5"	1'-5"	14'-0"		
P3	3/4" φ	6'-1"	1'-11"	2'-11"		
P4	1/2" φ	6'-9"	1'-11"	2'-11"		
P5	1/2" φ	3'-11"	0'-11"	1'-6"		
P16	1/2" φ	4'-6"	1'-6"			
P17	1/2" φ	5'-0"	2'-0"			
P18	1/2" φ	5'-6"	2'-6"			
P19	1/2" φ	6'-0"	3'-0"			
P20	1/2" φ	6'-6"	3'-6"			
P21	3/8" φ	7'-3"	7"	2'-8"		

GENERAL NOTES

Volume occupied by Oak header plank is included in quantity of Class 5 Concrete. Bolts for Oak headers to be paid for at unit price bid for Reinforcing Steel. Piles to be driven to a minimum capacity of 32 Tons. For additional general notes See Drawg. No. 6644.

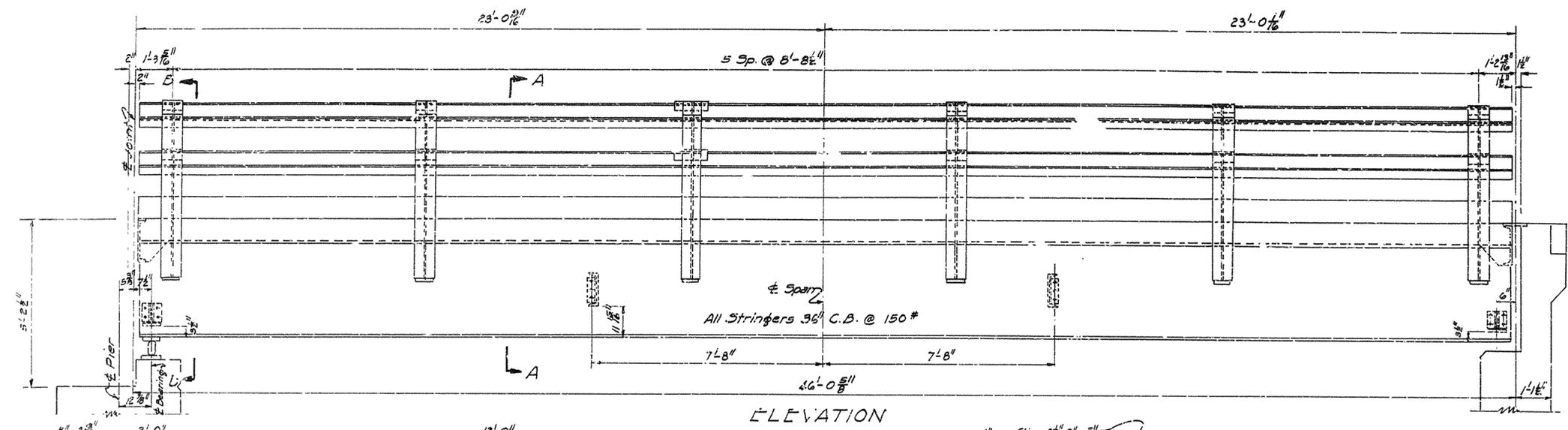
DETAILS OF BENT NO. 16  
BRIDGE OVER QUACHITA RIVER  
AT CAMDEN QUACHITA COUNTY  
ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

Drawn By: L.A.M. Date: 1-5-45  
Traced By: L.A.M. Date: 1-10-45  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
Scale: 1/2" = 1'-0"  
BRIDGE NO. 2466 DRAWING NO. 6643

*L.A.M.*  
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

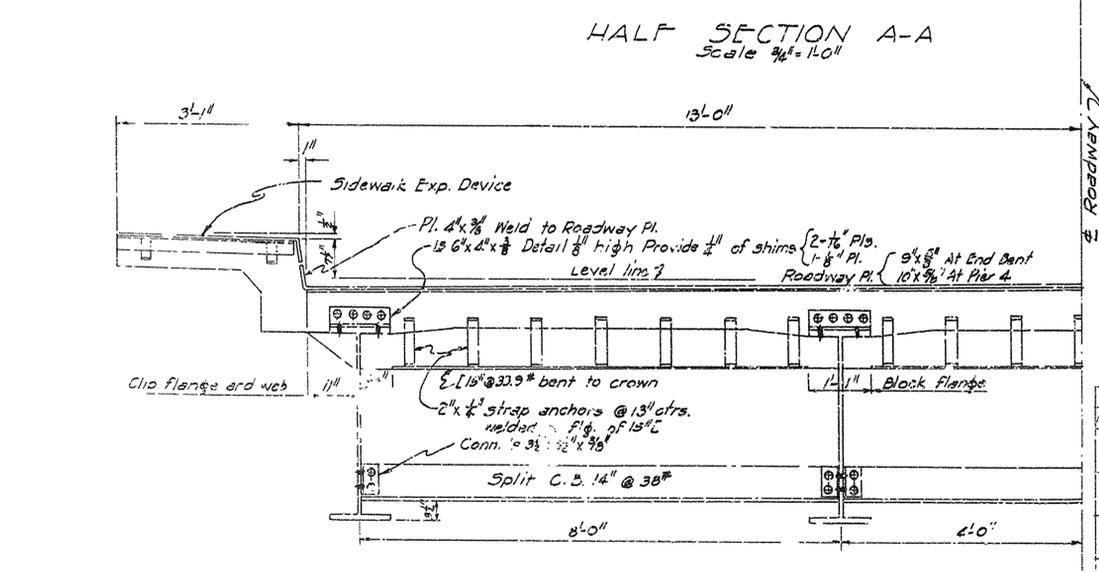
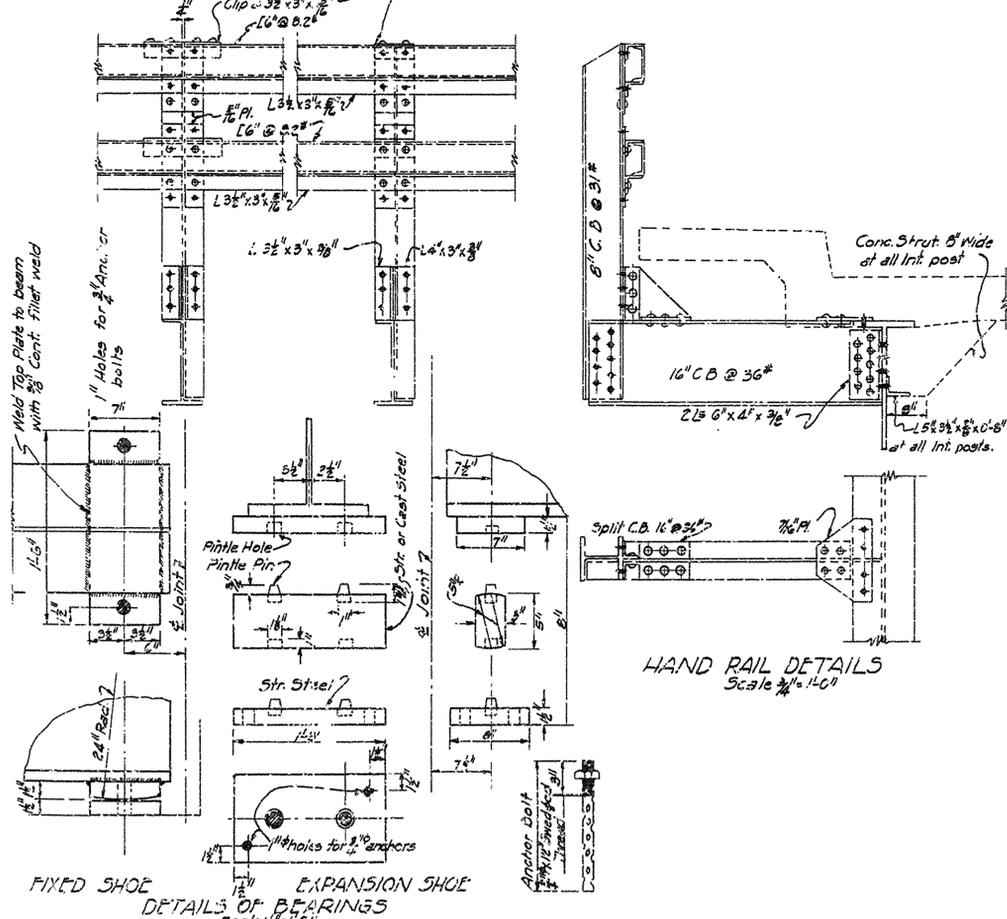
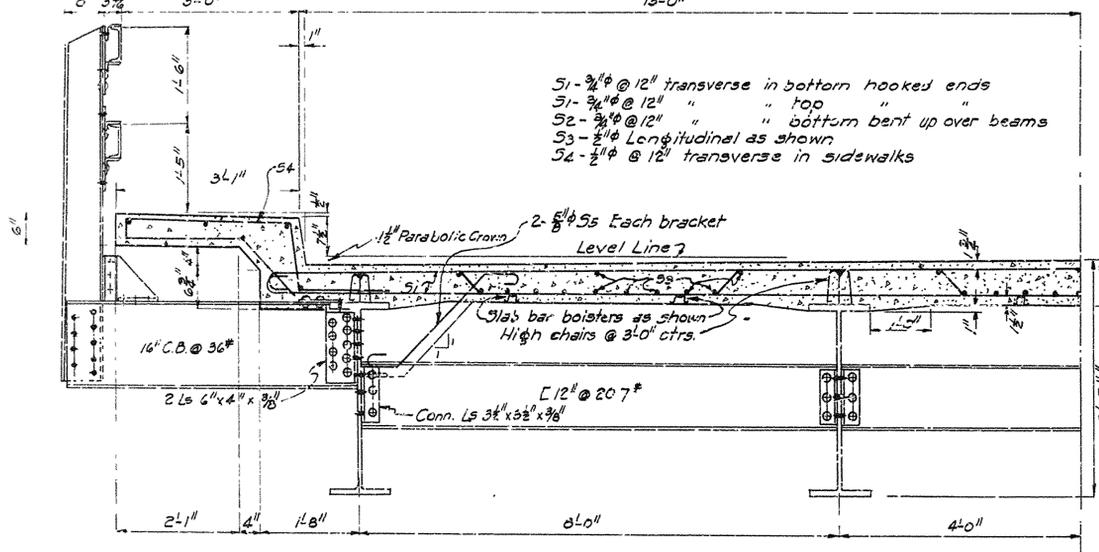
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
5	ARK.	DANR-1 (Unit 4)		11	25	
STATE JOB NO. 7305					11	26



**Loading - H 20**  
 Load Distribution Outside Girders  
 Dead Load Per Ft. = 12.50\*  
 Roadway Live Load Per Ft. = 32.4\*  
 Conc. Live Load { 9100 Mom.  
 13200 Shear  
 Truck Live Load = 1.6  
 Side Walk Live Load = 230\*  
 Load Distribution Inside Girders  
 Dead Load Per Ft. = 10.80\*  
 Roadway Live Load Per Ft. = 51.2\*  
 Conc. Live Load { 14,400\* Mom.  
 20,800\* Shear  
 Truck Live Load = 1.60 Wheel

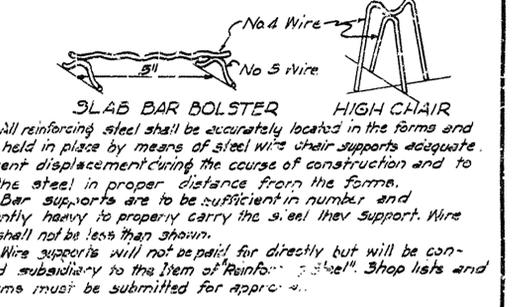
**STRESSES**  
 Structural Steel = 18,000 #/in<sup>2</sup>  
 Reinforcing Steel = 18,000 #/in<sup>2</sup>  
 Concrete = 1000 #/in<sup>2</sup> n=10

**GENERAL NOTES**  
 All Concrete to be Class "S". All exposed corners to have 3/4" chamfer unless otherwise noted.  
 Rivets 3/4". Open holes 1 1/2". Where bolts are indicated use machine bolts.  
 Structural shapes of equal or greater strength may be substituted for shapes shown but payment will be made on basis of shapes shown or those actually used whichever is the lesser.  
 All welded connections to be 3/8" fillet shop welds except as noted.  
 Shop Paint: All structural steel except surfaces in contact with concrete, shall be given one coat of red lead and raw linseed oil before shipment.  
 Field Paint: First coat White Lead tinted with Lamp Black, Second Coat Aluminum.  
 All bearing and roadway expansion devices to be paid for as "Structural Steel in Beam Spans".  
 Care shall be exercised to obtain 90° in the angle between flange and web of beams at bearing points.  
 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.  
 In order to secure a good riding surface it will be required that the concrete slab be struck off from curb to curb with a half span length longitudinal strike off. The strike off shall be sufficiently stiff so as to have no appreciable vertical deflection.  
 Specifications - Arkansas State Highway Commission Standard Specification for Road and Bridge Construction Adopted March 1, 1940.



**LIST OF BENT BARS**

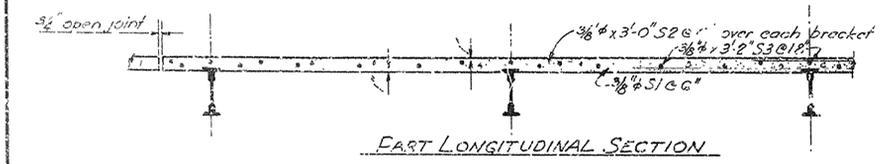
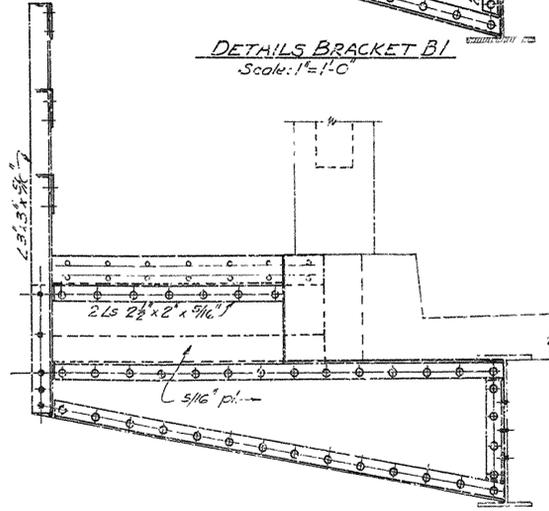
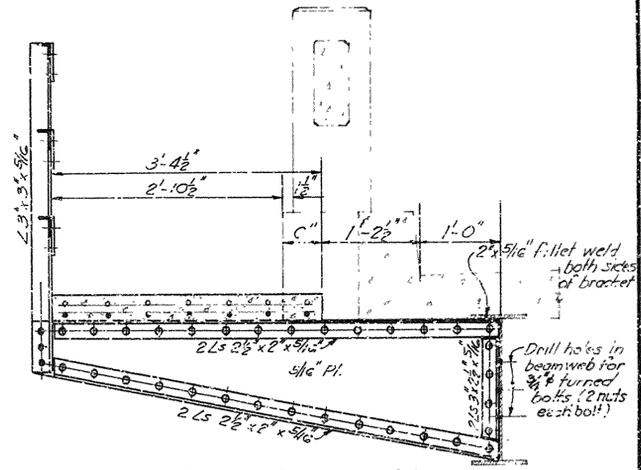
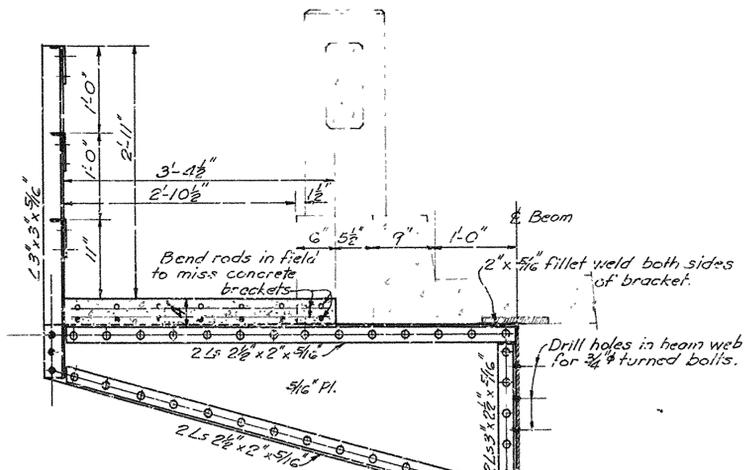
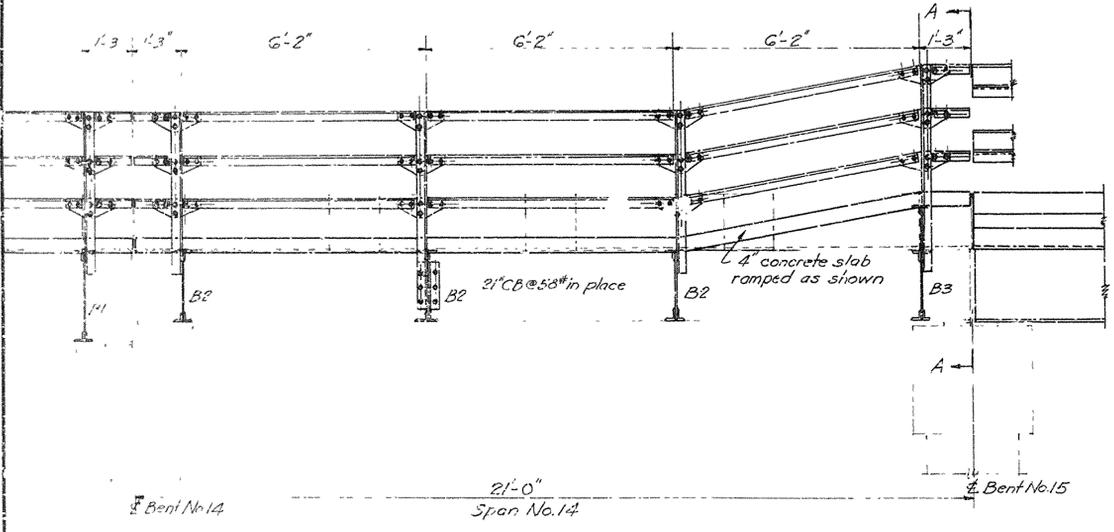
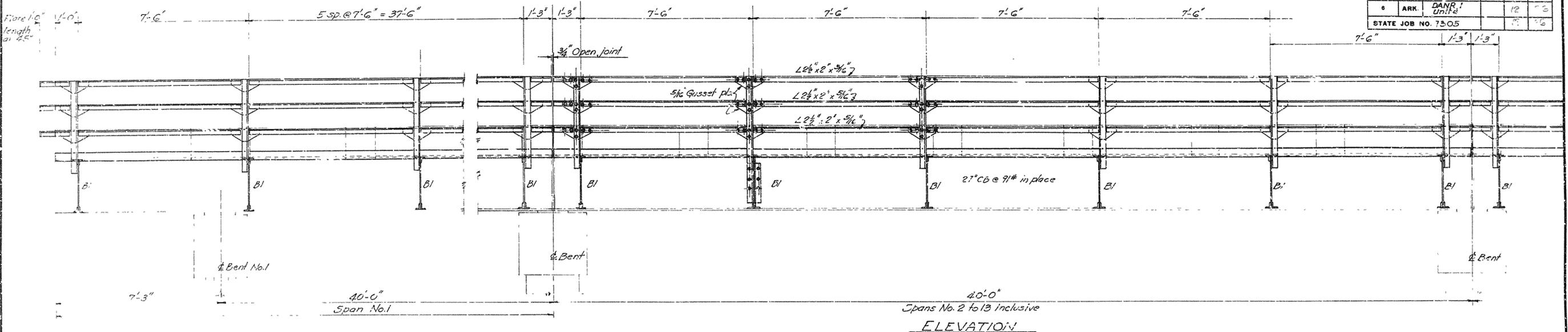
Mark	Size	Length	A	B	C
S2	3/4"	28'-0"	3'-2"	4'-0"	3'-0"
S1	3/4"	26'-0"	27'-0"		
S4	1/2"	5'-2"			
S5	5/8"	3'-0"			



**DETAILS OF 46'-0" I-BEAM SPAN 26'-0" CLEAR ROADWAY BRIDGE OVER OUCHITA RIVER AT CAMDEN QUACHITA COUNTY ROUTE 79 SEC. 4**  
**ARKANSAS STATE HIGHWAY COMMISSION**  
 LITTLE ROCK, ARK.  
 Drawn By: L.A.M.E. Date: 12-28-44  
 Traced By: L.A.M.E. Date: 1-26-45  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Scale: 1/2" = 1' ft.  
 Bridge No. 2466 Drawing No. 6644

*L.A.M.E.*  
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	FED. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	DANR Unit 2		12	15
STATE JOB NO. 7505					



General Notes:  
 Rivets 5/16". Open holes 1/16" except 1/8" for 3/4" bolts.  
 Floor slab to be Class 5" Concrete.  
 Walks to be installed on both sides of roadway.  
 Live load 65 k/ft for slab and brackets.  
 For additional notes see Drwg. No. 6642

DETAILS OF SIDE WALKS FOR EXISTING SPANS  
 BRIDGE OVER OJACHITA RIVER  
 CAMDEN, ARKANSAS  
 QUACHIT. COUNTY  
 ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 Drawn By: L.P.C. Date: 1-16-45  
 Traced By: L.P.C. Date: 1-18-45  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 BRIDGE NO. 2466 DRAWING NO. 6645

*M. C. Lawer*  
 PRINCIPAL HIGHWAY ENGINEER (1910-15)

SECTION A-A BRACKET B3  
 Details not shown same as B2  
 Scale: 1" = 1'-0"

