

Bridge #276

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	198-A	1924	3	11

374

STATE OF ARKANSAS
STATE HIGHWAY DEPARTMENT

PLAN OF PROPOSED BRIDGES
OVER
FOURCHE RIVER AND SLOUGH

14 MILES SOUTH OF WALDRON, 2½ MILES FROM BOLES SCOTT CO, ARK.

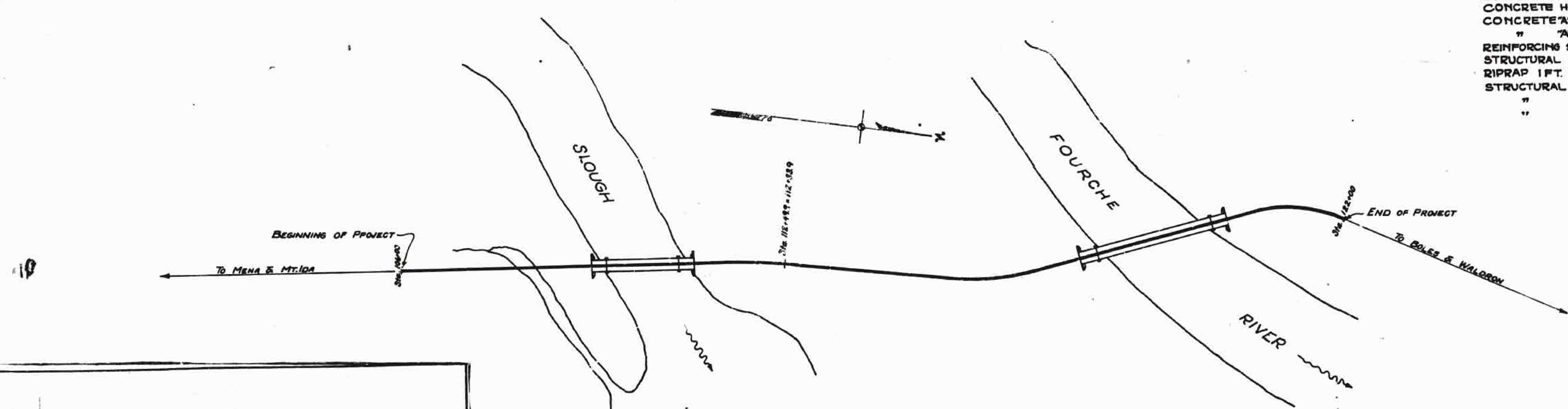
FEDERAL AID PROJECT No. 198-A

INDEX OF SHEETS

- SHEET NO. 1 Title Sheet
- " " 2 Map of Vicinity
- " " 3 Plan and Profile
- " " 4 Layout of Bridge over Slough
- " " 5 Layout of Bridge over Fourche River
- " " 6 Design of 120 Ft. Steel Truss Span
- " " 7 Design of 200 Ft. Steel Truss Span
- " " 8 Design of Substructure and Approaches, Slough Bridge
- " " 9 Design of Substructure and Approaches, River Bridge
- " " 10 Cross Sections
- " " 11 Cross Sections - Typical Graded Section

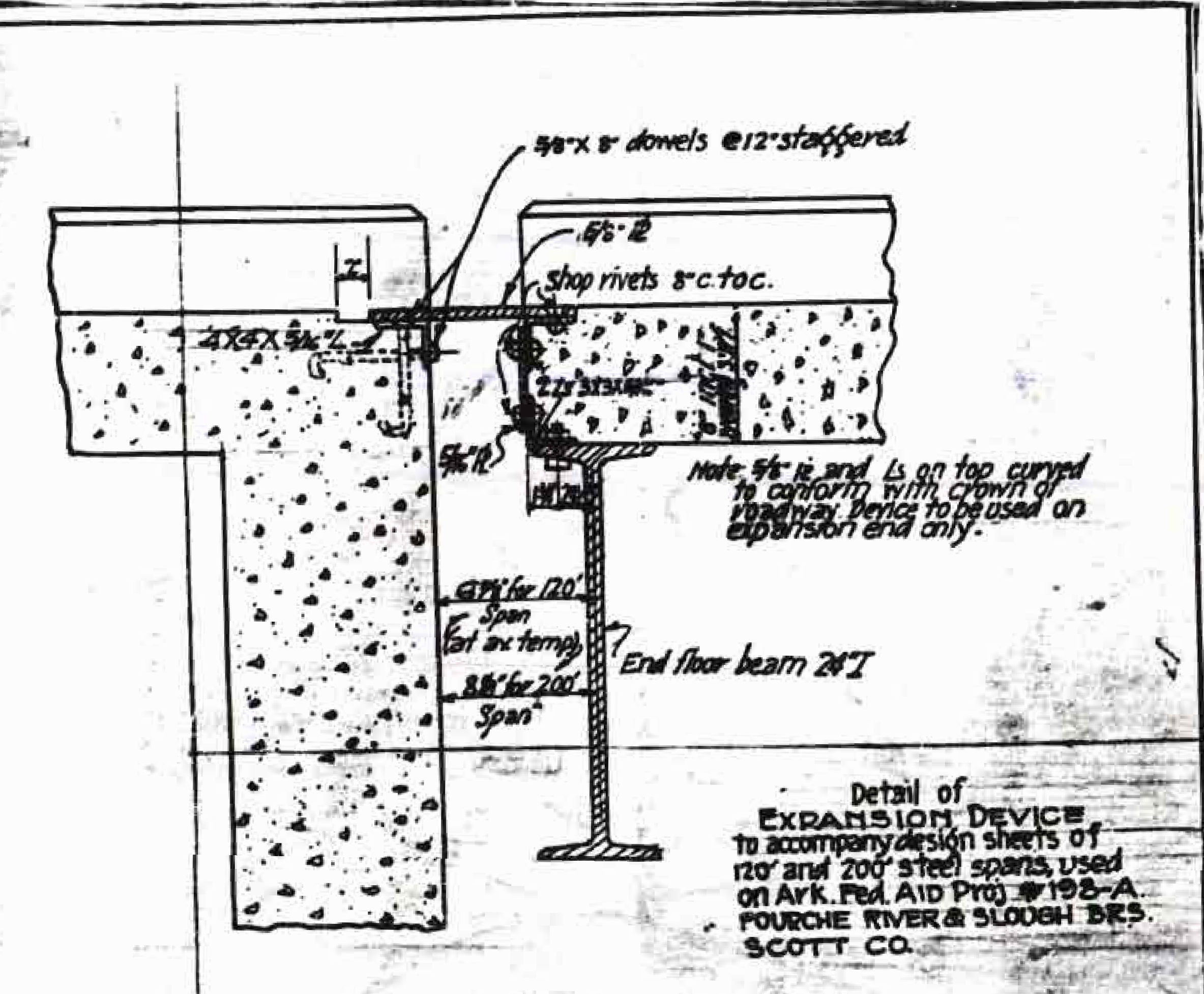
QUANTITIES

EARTH (ROADWAY EXC. 543 CU YDS)	7796	CU. YDS.
WORK (BORROW 7253 CU YDS)		
LOOSE ROCK EXCAV.	543	" "
CONCRETE HANDRAIL	248	LIN. FT.
CONCRETE "A" 1:2:3 MIX	271.36	CU. YDS.
" " "A" 1:2:4 "	342.25	" "
REINFORCING STEEL	58,079	LBS.
STRUCTURAL "	36,025	" "
RIPRAP 1 FT. THICK	285	96. YDS.
STRUCTURAL EXCAV. ROCK	68	CU. YDS.
" " DRY EARTH	255	" "
" " WET "	356	" "



LAYOUT

GROSS LENGTH OF PROJECT .306 MILES
NET " " " .306 MILES



APPROVED: _____
COMMISSIONER, STATE HIGHWAY DEPARTMENT

APPROVED: _____
STATE HIGHWAY ENGINEER

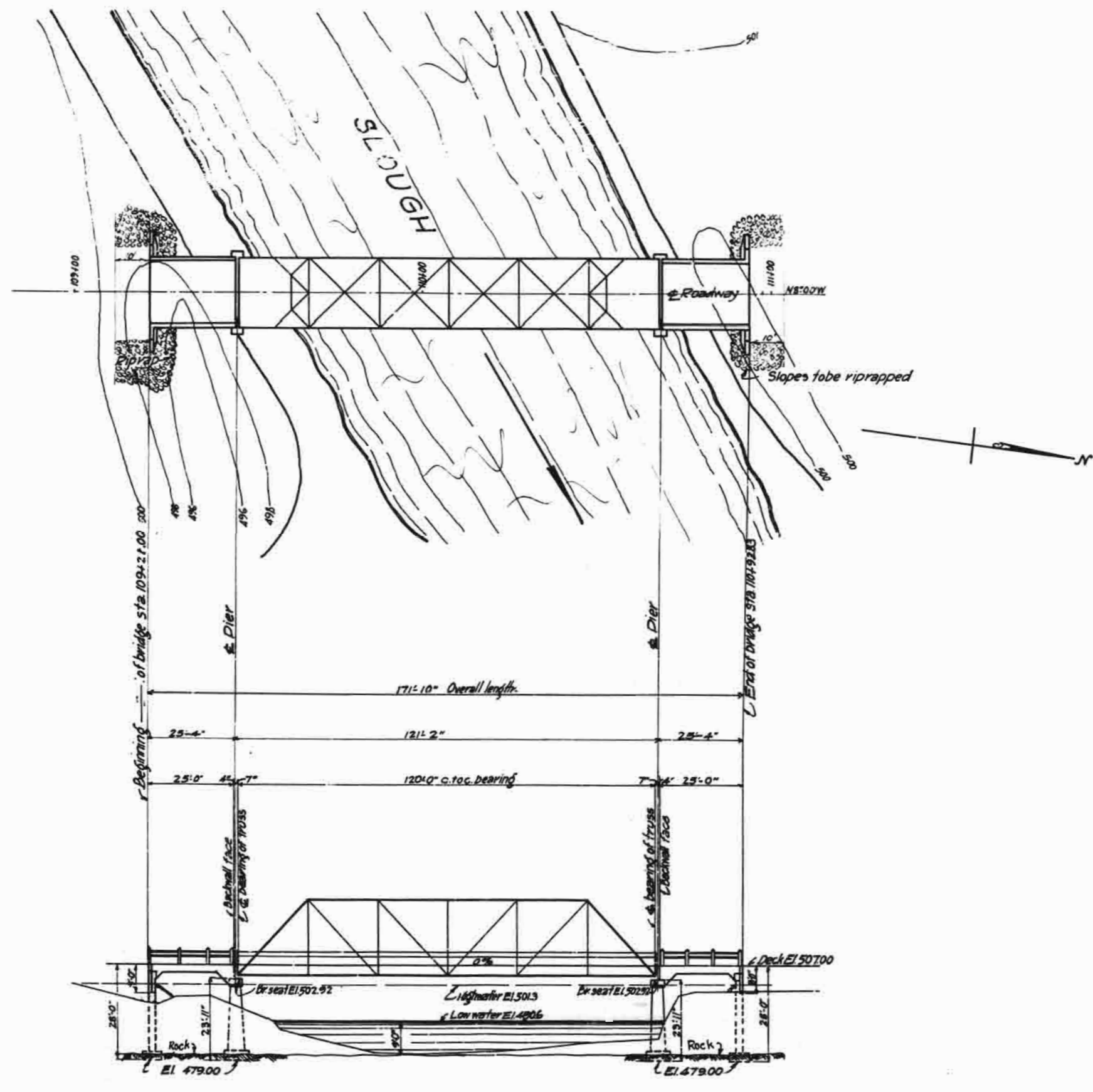
RECOMMENDED FOR APPROVAL: _____
DISTRICT ENGINEER, U.S. BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL: _____
CHIEF ENGINEER, U.S. BUREAU OF PUBLIC ROADS

APPROVED: _____
DIRECTOR, U.S. BUREAU OF PUBLIC ROADS

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
0	ARK.	198 A	1924	2	1

375



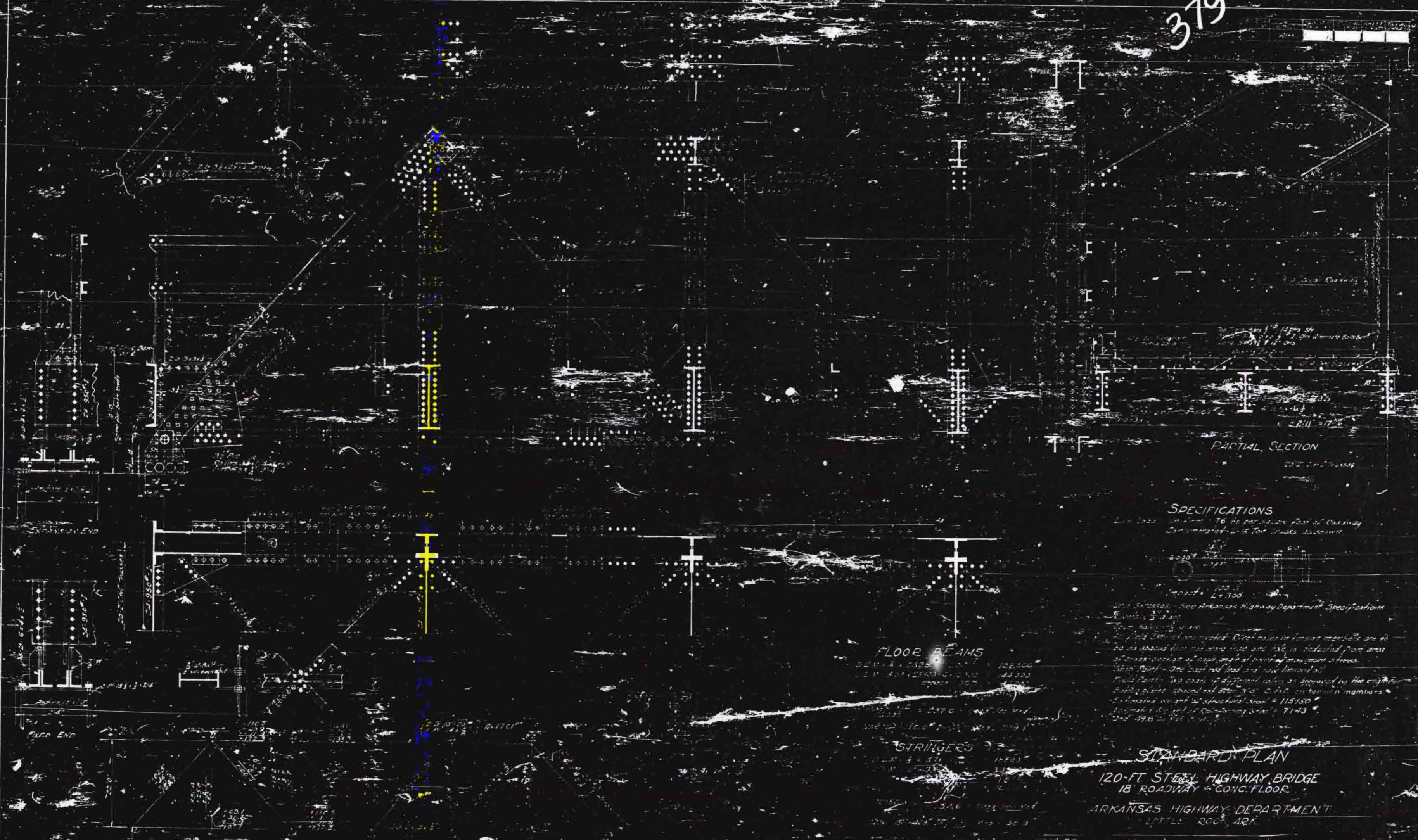
SUMMARY OF QUANTITIES

HANDRAIL		1140 LIN. FT.
CONCRETE 1:2:3 MIX		100.62 CU YDS
" 1:2:4 "		106.51 CU YDS
REINFORCING STEEL		25330 LBS.
STRUCTURAL "		116300 LBS.
RIRAP 1" THICK		60.58 YDS
STRUCT. EXCAV., ROCK		23 CU YDS
" " DRY EARTH		95 " "
" " WET		180 " "

Scale: vertical & horizontal, 1" = 20'
 Relief waterway for floodwater from river.

ARKANSAS STATE HIGHWAY DEPARTMENT
 SWITZ SHOWING
LAYOUT
 OF PROPOSED BRIDGE
 OVER
 SLOUGH NEAR FOURCHE RIVER
 SOUTH OF BOLES, STATE HIGHWAY A-4
 FEDERAL AID PROJECT NO. 198 A
 APRIL 1925.

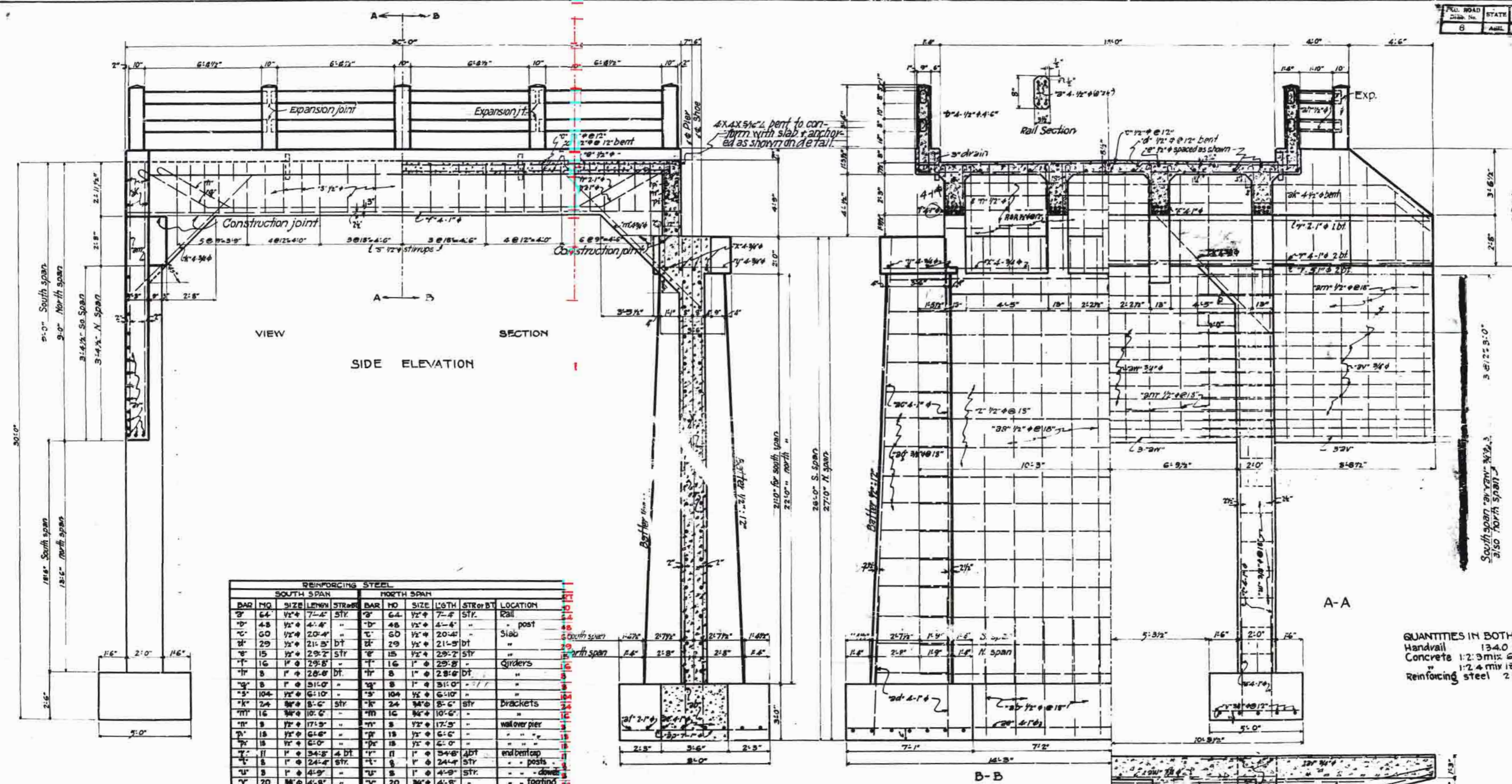
379



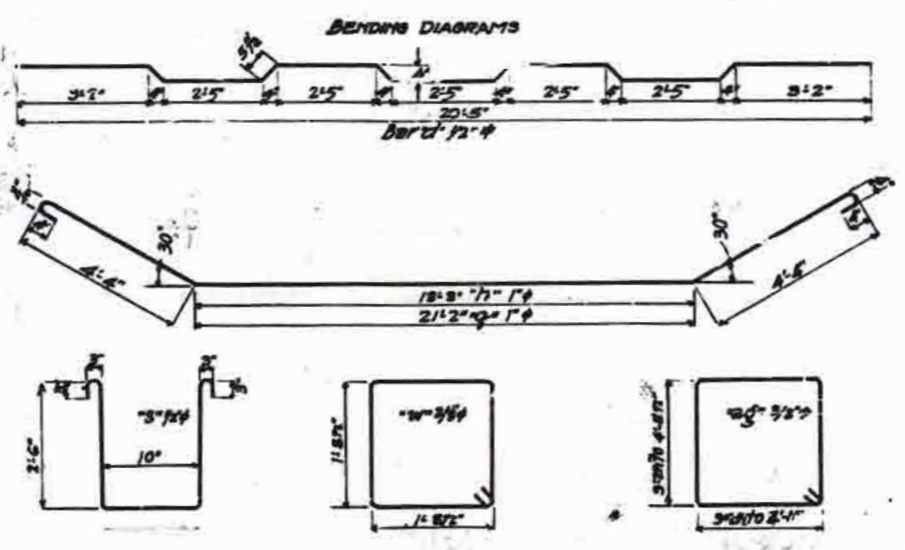
Approved Highway Engineer: [Signature]
 March 1924
 548 Standard No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISC. YEAR	SHEET NO.	TOTAL SHEETS
6	AR.	198-A	1924	9	11

378

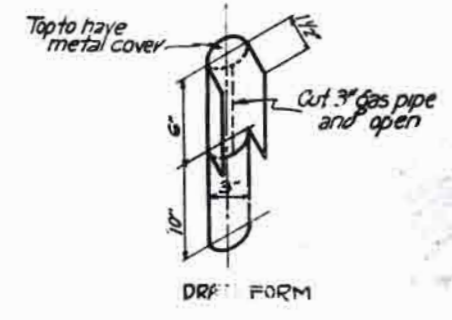


SOUTH SPAN		NORTH SPAN		LOCATION					
NO.	SIZE	LEN	STR.	NO.	SIZE	LEN	STR.	BY	
1	4.0	17.0	STK	1	4.0	17.0	STK		Rail
2	4.0	17.0	STK	2	4.0	17.0	STK		post
3	4.0	17.0	STK	3	4.0	17.0	STK		Slab
4	4.0	17.0	STK	4	4.0	17.0	STK		
5	4.0	17.0	STK	5	4.0	17.0	STK		Girders
6	4.0	17.0	STK	6	4.0	17.0	STK		
7	4.0	17.0	STK	7	4.0	17.0	STK		brackets
8	4.0	17.0	STK	8	4.0	17.0	STK		walover pier
9	4.0	17.0	STK	9	4.0	17.0	STK		
10	4.0	17.0	STK	10	4.0	17.0	STK		end bent cap
11	4.0	17.0	STK	11	4.0	17.0	STK		posts
12	4.0	17.0	STK	12	4.0	17.0	STK		doors
13	4.0	17.0	STK	13	4.0	17.0	STK		roofing
14	4.0	17.0	STK	14	4.0	17.0	STK		post ties
15	4.0	17.0	STK	15	4.0	17.0	STK		pier cap
16	4.0	17.0	STK	16	4.0	17.0	STK		walwall
17	4.0	17.0	STK	17	4.0	17.0	STK		done
18	4.0	17.0	STK	18	4.0	17.0	STK		piers
19	4.0	17.0	STK	19	4.0	17.0	STK		doors
20	4.0	17.0	STK	20	4.0	17.0	STK		pier footing
21	4.0	17.0	STK	21	4.0	17.0	STK		fill
22	4.0	17.0	STK	22	4.0	17.0	STK		anchors
23	4.0	17.0	STK	23	4.0	17.0	STK		and walwall
24	4.0	17.0	STK	24	4.0	17.0	STK		anchors
25	4.0	17.0	STK	25	4.0	17.0	STK		walover end br



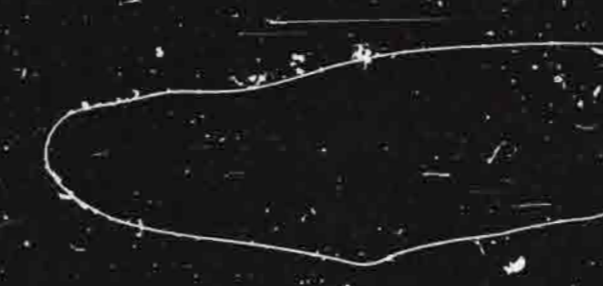
DESIGN DATA
 Steel in tension 16000 lbs per sq in
 Concrete in compression 650 lbs per sq in
 Concentrated load 2-15 Ton trucks
 Impact 50% of live load
 Concrete
 Proportions in mix 1:3 mix max. agg 1/4"
 " 2 mix 1/2" max. agg 1/2"
 " 3 mix 3/4" max. agg 3/4"
 Reinforcing steel to be deformed bars of structural or intermediate grade

ARKANSAS STATE HIGHWAY DEPARTMENT
 DESIGN OF
APPROACH SPANS & SUBSTRUCTURE
 FOR PROPOSED BRIDGE
 OVER
FOURCHE RIVER
 SOUTH OF BOLES, STATE HIGHWAY A-4
 FED. AID PROJECT NO. 198-A SCOTT CO.
 APR. 1925.



QUANTITIES IN BOTH SPANS
 Handrail 134.0 Lin ft
 Concrete 1:2:3 mix 6766 cu yd
 " 1:2:4 mix 1937.4 cu yd
 Reinforcing steel 21,889 lbs.

381

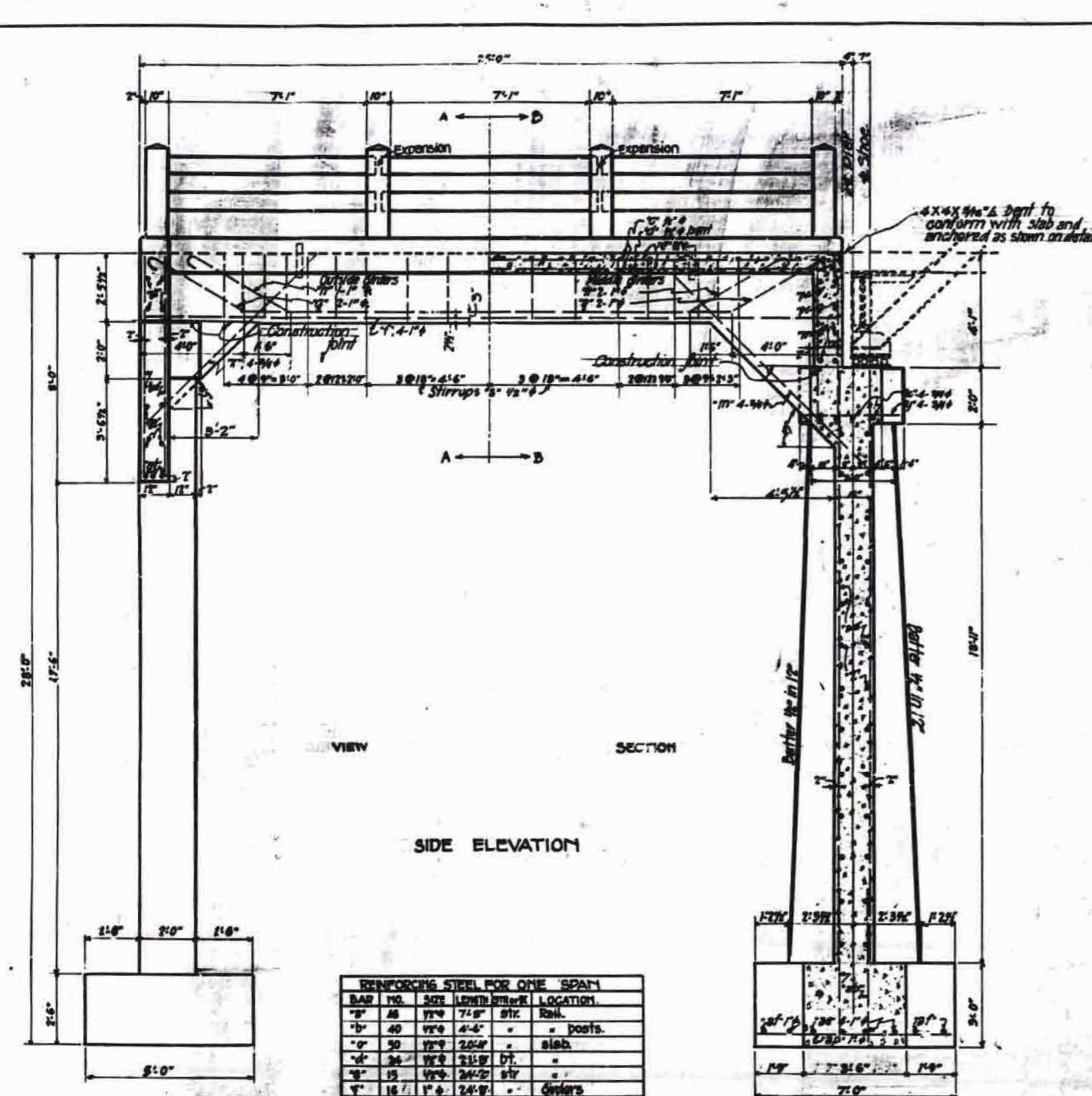


QUANTITIES FOR TWO SPANS
 CONCRETE 14.0
 STEEL 1.0
 TOTAL 15.0

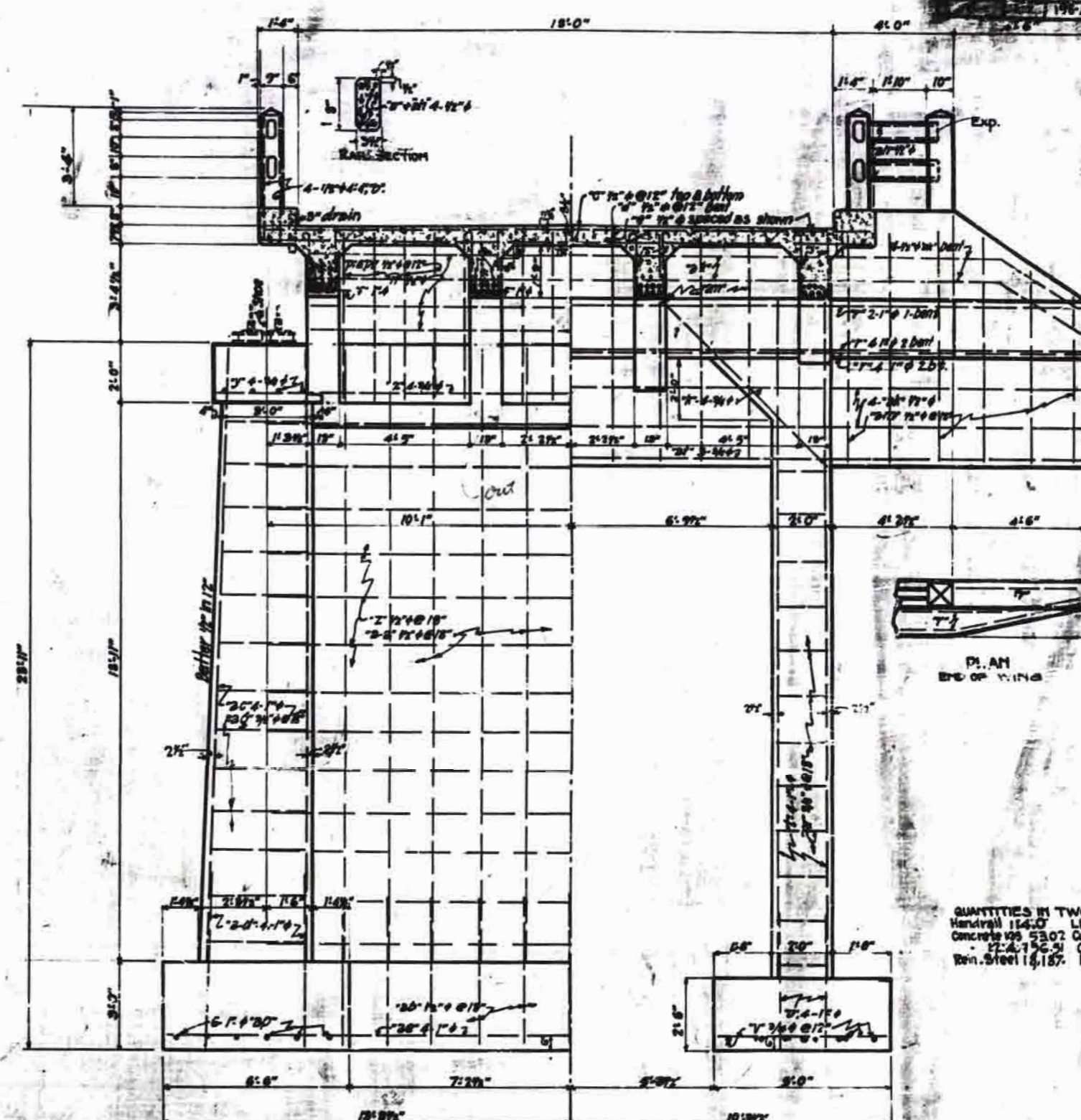
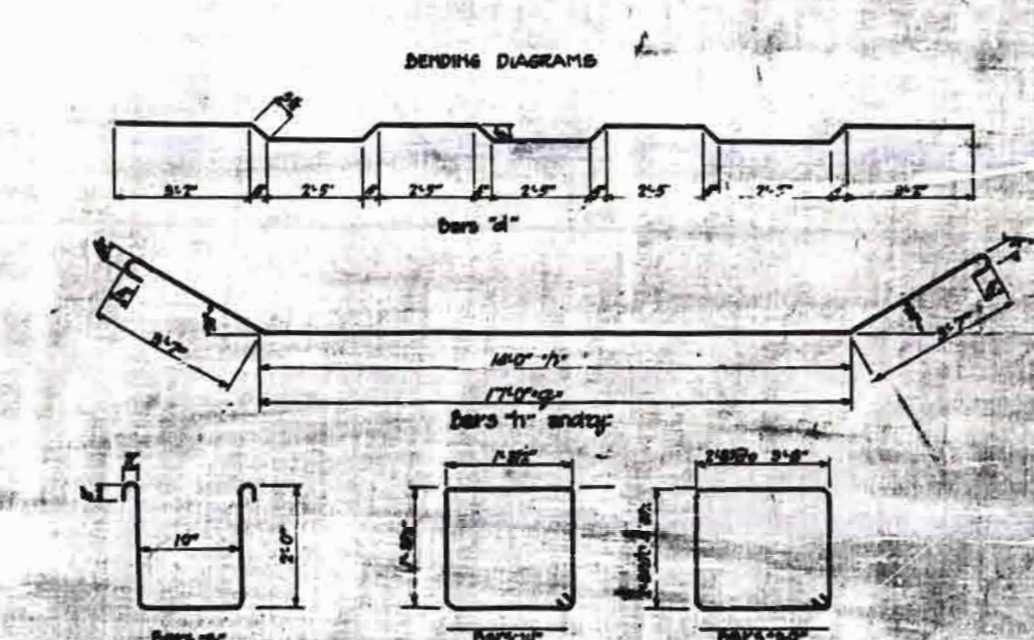
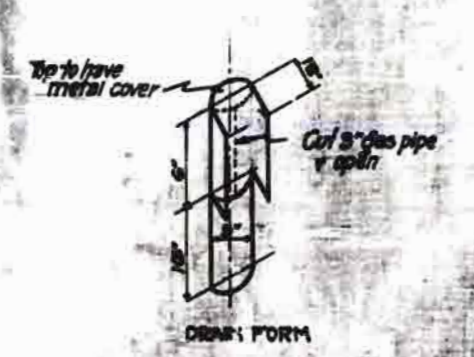


NO.	DESCRIPTION	QTY	UNIT
1	CONCRETE	14.0	CY
2	STEEL	1.0	TON
3	FORMWORK	100.0	SQ. FT.
4	REINFORCING BARS	100.0	LB.
5	BRICKWORK	100.0	SQ. FT.
6	PAVING	100.0	SQ. FT.
7	GRASS	100.0	SQ. FT.
8	LANDSCAPING	100.0	SQ. FT.
9	UTILITIES	100.0	LINEAL FT.
10	CONCRETE	14.0	CY
11	STEEL	1.0	TON
12	FORMWORK	100.0	SQ. FT.
13	REINFORCING BARS	100.0	LB.
14	BRICKWORK	100.0	SQ. FT.
15	PAVING	100.0	SQ. FT.
16	GRASS	100.0	SQ. FT.
17	LANDSCAPING	100.0	SQ. FT.
18	UTILITIES	100.0	LINEAL FT.

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 DESIGN OF
APPROACH SPANS AND SUBSTRUCTURE
 FOR PROPOSED BRIDGE
 OVER
 SLOUGH NEAR FOURCHE RIVER
 SOUTH OF NEW ORLEANS, LOUISIANA
 REPORT NO. 10-1943-307
 APR 1943



BAR NO.	SIZE	LENGTH	MARK	LOCATION
1	1/2"	12'-0"	STK	RAIL
2	1/2"	12'-0"	STK	RAIL
3	1/2"	12'-0"	STK	RAIL
4	1/2"	12'-0"	STK	RAIL
5	1/2"	12'-0"	STK	RAIL
6	1/2"	12'-0"	STK	RAIL
7	1/2"	12'-0"	STK	RAIL
8	1/2"	12'-0"	STK	RAIL
9	1/2"	12'-0"	STK	RAIL
10	1/2"	12'-0"	STK	RAIL
11	1/2"	12'-0"	STK	RAIL
12	1/2"	12'-0"	STK	RAIL
13	1/2"	12'-0"	STK	RAIL
14	1/2"	12'-0"	STK	RAIL
15	1/2"	12'-0"	STK	RAIL
16	1/2"	12'-0"	STK	RAIL
17	1/2"	12'-0"	STK	RAIL
18	1/2"	12'-0"	STK	RAIL
19	1/2"	12'-0"	STK	RAIL
20	1/2"	12'-0"	STK	RAIL
21	1/2"	12'-0"	STK	RAIL
22	1/2"	12'-0"	STK	RAIL
23	1/2"	12'-0"	STK	RAIL
24	1/2"	12'-0"	STK	RAIL
25	1/2"	12'-0"	STK	RAIL
26	1/2"	12'-0"	STK	RAIL
27	1/2"	12'-0"	STK	RAIL
28	1/2"	12'-0"	STK	RAIL
29	1/2"	12'-0"	STK	RAIL
30	1/2"	12'-0"	STK	RAIL
31	1/2"	12'-0"	STK	RAIL
32	1/2"	12'-0"	STK	RAIL
33	1/2"	12'-0"	STK	RAIL
34	1/2"	12'-0"	STK	RAIL
35	1/2"	12'-0"	STK	RAIL
36	1/2"	12'-0"	STK	RAIL
37	1/2"	12'-0"	STK	RAIL
38	1/2"	12'-0"	STK	RAIL
39	1/2"	12'-0"	STK	RAIL
40	1/2"	12'-0"	STK	RAIL
41	1/2"	12'-0"	STK	RAIL
42	1/2"	12'-0"	STK	RAIL
43	1/2"	12'-0"	STK	RAIL
44	1/2"	12'-0"	STK	RAIL
45	1/2"	12'-0"	STK	RAIL
46	1/2"	12'-0"	STK	RAIL
47	1/2"	12'-0"	STK	RAIL
48	1/2"	12'-0"	STK	RAIL
49	1/2"	12'-0"	STK	RAIL
50	1/2"	12'-0"	STK	RAIL
51	1/2"	12'-0"	STK	RAIL
52	1/2"	12'-0"	STK	RAIL
53	1/2"	12'-0"	STK	RAIL
54	1/2"	12'-0"	STK	RAIL
55	1/2"	12'-0"	STK	RAIL
56	1/2"	12'-0"	STK	RAIL
57	1/2"	12'-0"	STK	RAIL
58	1/2"	12'-0"	STK	RAIL
59	1/2"	12'-0"	STK	RAIL
60	1/2"	12'-0"	STK	RAIL
61	1/2"	12'-0"	STK	RAIL
62	1/2"	12'-0"	STK	RAIL
63	1/2"	12'-0"	STK	RAIL
64	1/2"	12'-0"	STK	RAIL
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66	1/2"	12'-0"	STK	RAIL
67	1/2"	12'-0"	STK	RAIL
68	1/2"	12'-0"	STK	RAIL
69	1/2"	12'-0"	STK	RAIL
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82	1/2"	12'-0"	STK	RAIL
83	1/2"	12'-0"	STK	RAIL
84	1/2"	12'-0"	STK	RAIL
85	1/2"	12'-0"	STK	RAIL
86	1/2"	12'-0"	STK	RAIL
87	1/2"	12'-0"	STK	RAIL
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92	1/2"	12'-0"	STK	RAIL
93	1/2"	12'-0"	STK	RAIL
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95	1/2"	12'-0"	STK	RAIL
96	1/2"	12'-0"	STK	RAIL
97	1/2"	12'-0"	STK	RAIL
98	1/2"	12'-0"	STK	RAIL
99	1/2"	12'-0"	STK	RAIL
100	1/2"	12'-0"	STK	RAIL



DESIGN DATA
 Slab thickness 18000 lbs per sq ft
 Concrete in compression 650 lbs per sq ft
 Concentrated load 2 ton trucks
 Street 50% of live load
 Concrete
 Proportions in vol. 1:3 mix max. agg. 1/2"
 max. 1 1/2"
 max. 2 1/2"
 max. 3 1/2"
 max. 4 1/2"
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 max. 96 1/2"
 max. 97 1/2"
 max. 98 1/2"
 max. 99 1/2"
 max. 100 1/2"

QUANTITIES IN TWO SPANS
 Reinforce 154.0 Lin ft
 Concrete 530.0 Cu yds
 Form 174.0 Sq yds
 Rebar 118.0 Lbs.

ARKANSAS STATE HIGHWAY DEPARTMENT
 DESIGN OF
APPROACH AND SUBSTRUCTURE
 FOR
 OVER
MISSOURI RIVER
 SOUTH OF
 PROJECT NO 198A. SCOTT CO.
 APR. 1925.

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