

STATE OF ARKANSAS  
STATE HIGHWAY DEPARTMENT

FISCAL YEAR	JOB NO.	SHEET No.	TOTAL SHEETS
1928	574	1	9
Proj. Brs. Pangb. Sec. 13, White Co. Dist. 1133			

PLAN OF PROPOSED BRIDGES  
ON  
PANGBURN-SEARCY ROAD  
WHITE COUNTY

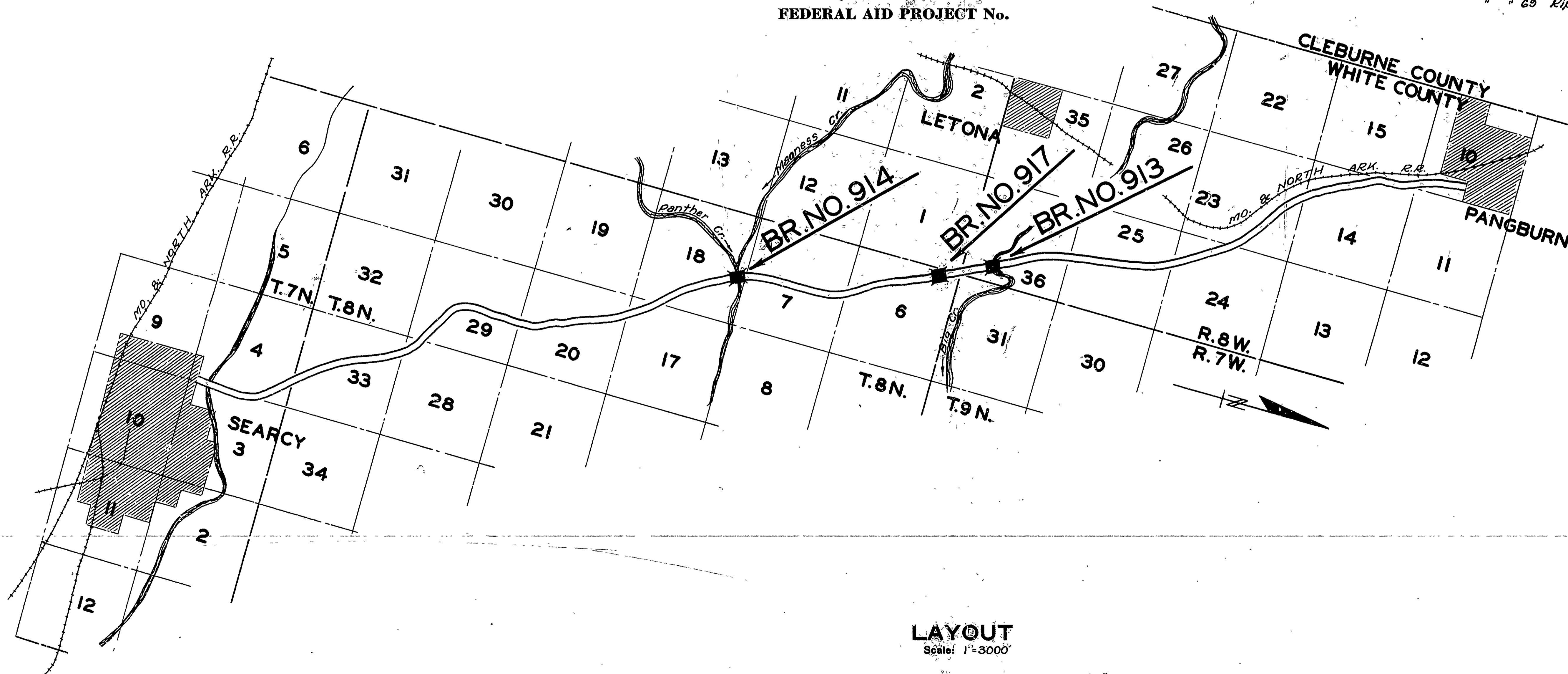
INDEX OF SHEETS

Sheet No.	Drwg. No.	Title Sheet
1	1133	Title Sheet
2	1134	Layout of Bridge No. 913
3	1135	Layout of Bridge No. 917
4	16	Stand. 19' Tr. Tim. Trestle 13' Roadway
5	1136	Layout of Bridge No. 914
6	1137	Pier Details for Br. No. 913, 914
7	1054	Stand. 90' Pony 18' Roadway
8	20	Stand. 19' Tr. Tim. Trestle 18' Roadway
9		Typical Cross-Sections of 26' Emb.

QUANTITIES

Item No.	Description	Quantity	Unit
13	Dry Excavation For Structures	193	Cu. Yds.
13	Wet Excavation For Structures	216	" "
13	Solid Rock Excav. For Strucs.	23	" "
17	Borrow	5725	" "
52	Untreated Bridge Timber	3,608	M. Ft. B.M.
52	Treated Bridge Timber	92,474	" "
54	Class "A" Concrete	180.48	Cu. Yds.
54	Class "B" Concrete	111.84	" "
55	Reinforcing Steel	33,812	Lbs.
56	Struc. Steel in Truss Bridges	126,842	" "
67	Treated Timber Piling	2,494	Lin. Ft.
69	Rip Rap 1" Thick	643	Sq. Yds.

ROUTE 16 SEC. 13  
JOB No 574  
FEDERAL AID PROJECT No.



LAYOUT  
Scale: 1" = 3000'

GROSS LENGTH OF PROJECT = 1200'-0" = 0.227 MI.  
NET LENGTH OF PROJECT

APPROVED: \_\_\_\_\_  
COMMISSIONER - STATE LANDS, HIGHWAY AND IMPROVEMENTS

APPROVED: \_\_\_\_\_  
STATE HIGHWAY ENGINEER

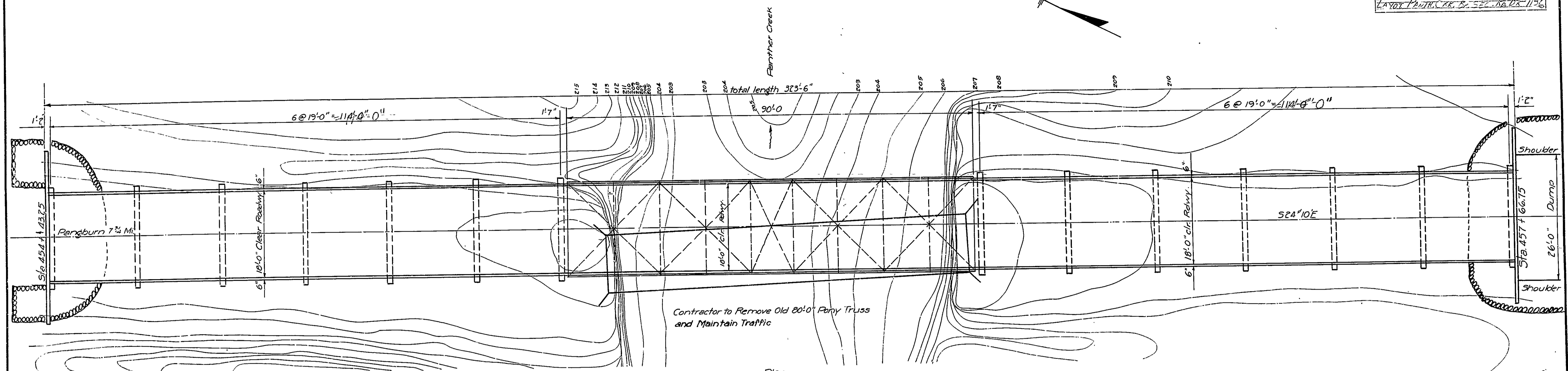
RECOMMENDED FOR APPROVAL: \_\_\_\_\_  
DISTRICT ENGINEER - U. S. BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL: \_\_\_\_\_  
CHIEF ENGINEER - U. S. BUREAU OF PUBLIC ROADS

APPROVED: \_\_\_\_\_  
DIRECTOR - U. S. BUREAU OF PUBLIC ROADS

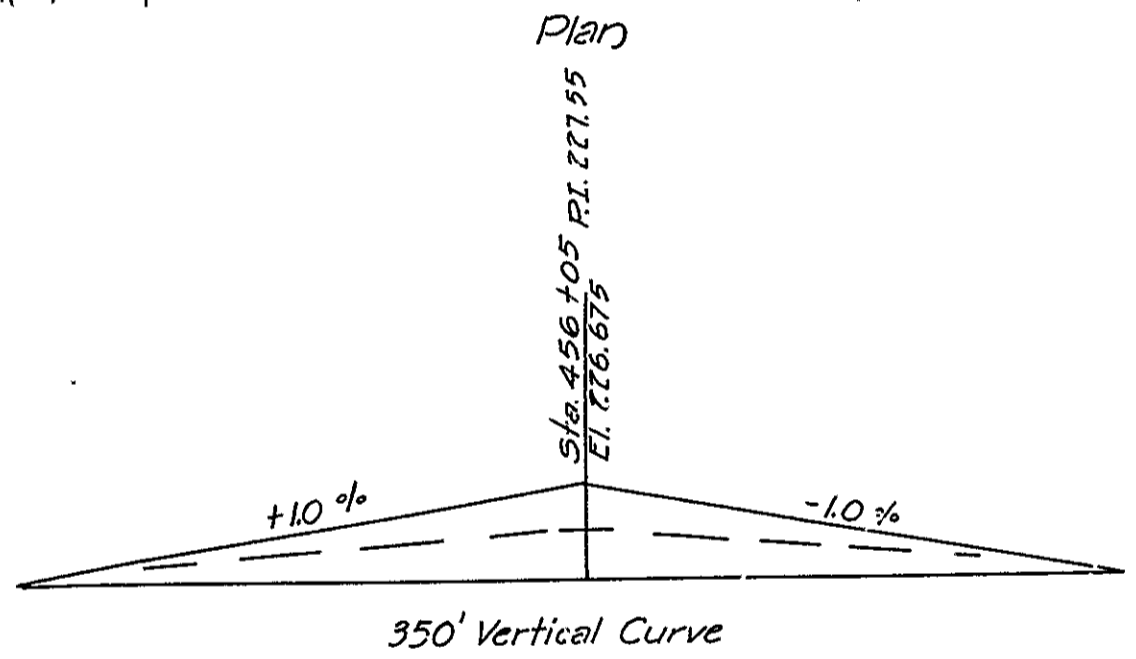
*M.B. Gamm*  
BRIDGE ENGINEER

FISCAL YEAR	Job No	SHEET No.	TOTAL SHEETS
1928	574	5	9
LAYOUT PARTS CR. 15, SEC. 16, T. 15 N., R. 13 W.			

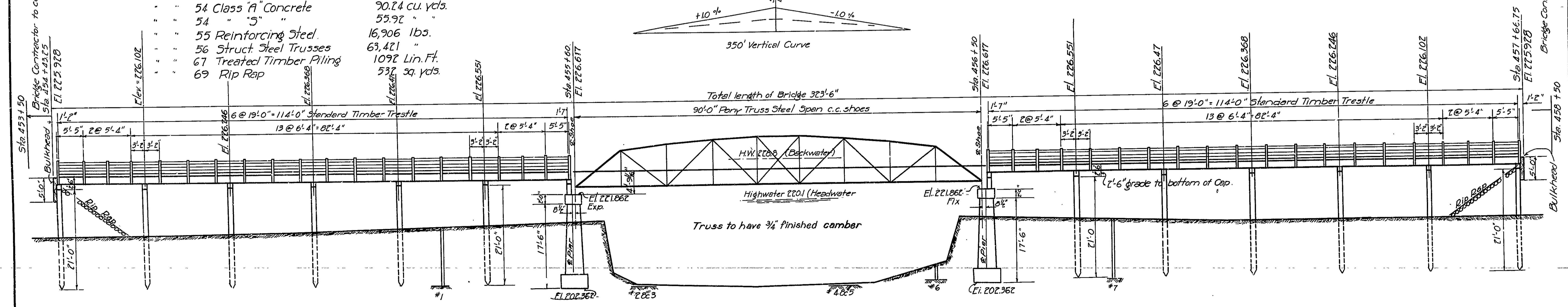


Quantities

Item No 13 Dry Excavation	110 cu. yds.
13 Wet	59 "
13 Rock	10 "
17 Borrow	2340 "
52 Untreated Timber	1,646 Ft. B.M.
52 Treated	43,064 "
54 Class "A" Concrete	90.24 cu. yds.
54 " " " "	55.92 "
55 Reinforcing Steel	16,906 lbs.
56 Struct. Steel Trusses	63,421 "
67 Treated Timber Piling	1092 Lin. Ft.
69 Rip Rap	532 sq. yds.



B.M. 37 nail in High-Line Pole 30' right Sta. 451+80 El. 215.13



Test Holes

#1	Solid Rock	El. 203.2
#2	"	202.8
#3	"	202.7
#4	"	202.7
#5	"	202.8
#6	"	203.1
#7	"	203.0

See Drawing #1054 for Details of Steel Span Truss.  
 1137 " " " Piers  
 " " #20 " " Standard Timber Trestle

Lengths of Piling Shown are assumed for Estimating only.  
 Actual lengths to be determined in the field.

Layout  
 Bridge over Panther Creek  
 Pangburn Searcy Road, White, Co.  
 ROUTE 16 SEC. 16

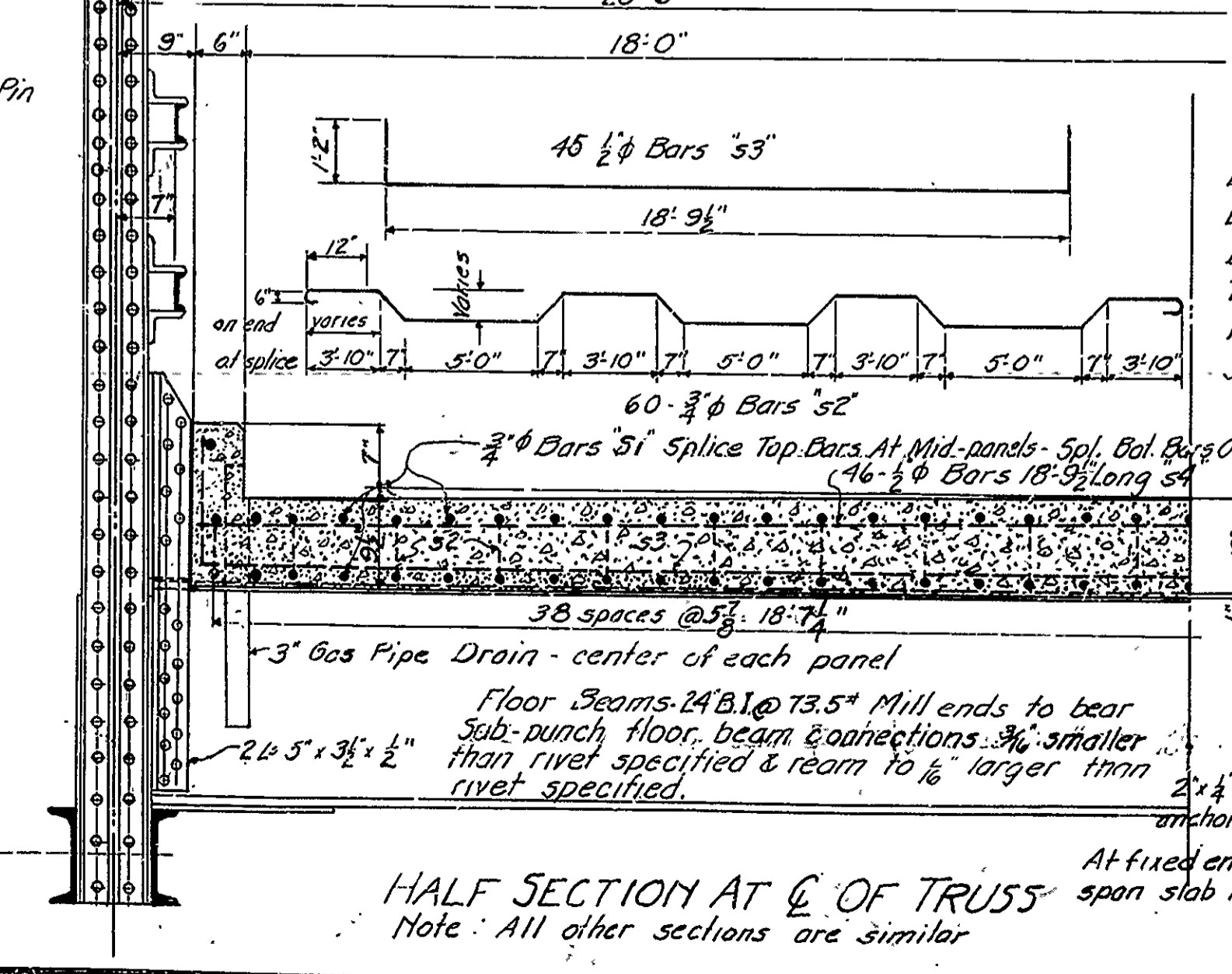
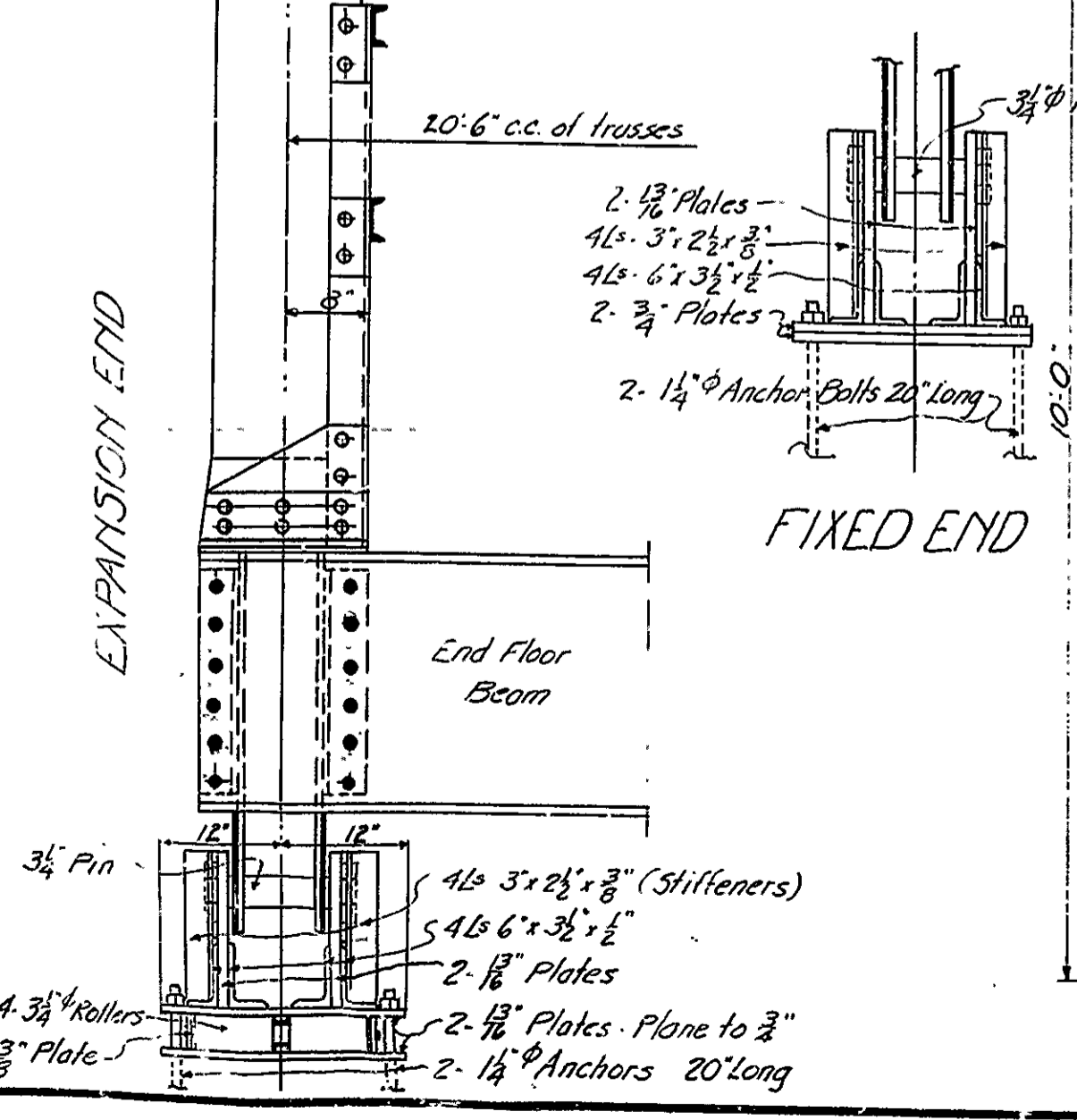
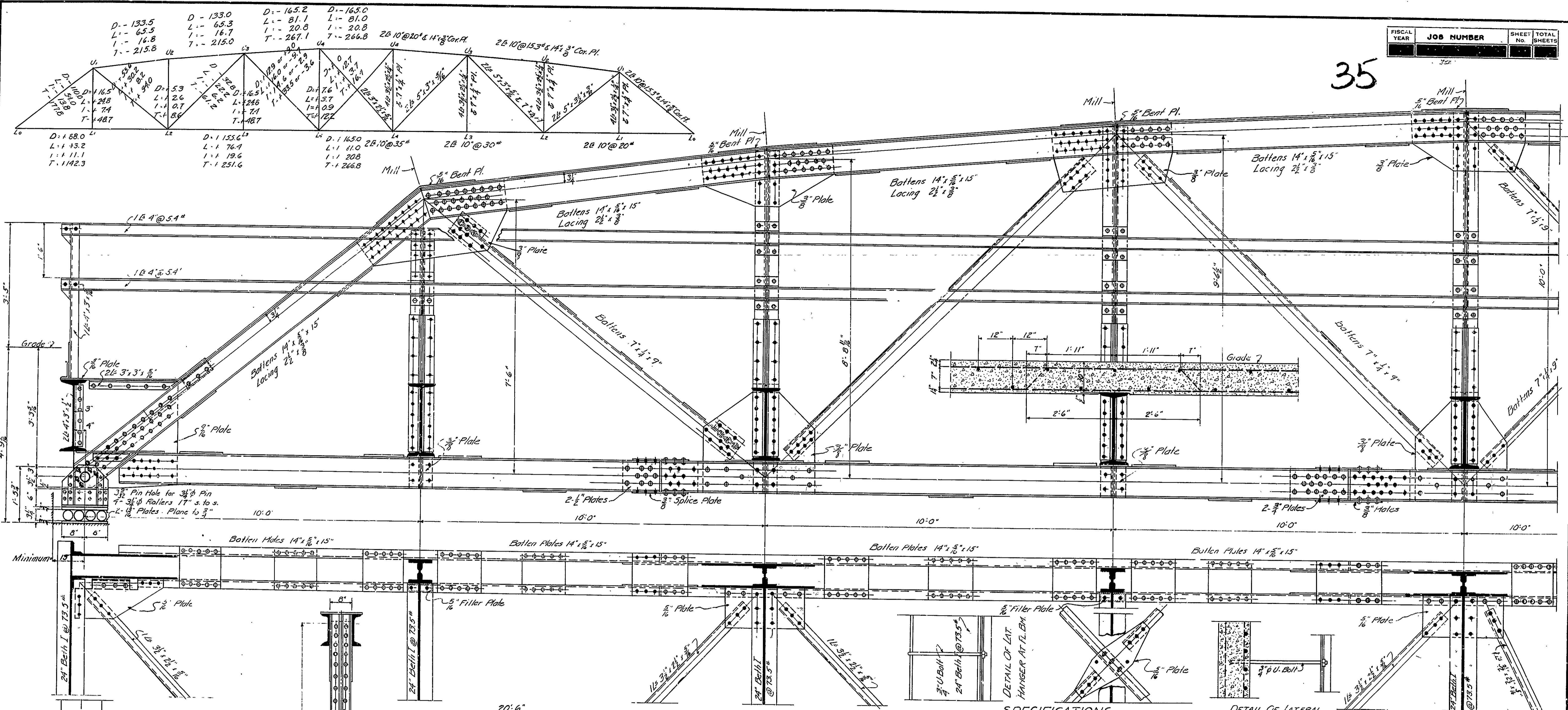
**ARKANSAS STATE HIGHWAY DEPARTMENT**  
 LITTLE ROCK, ARK.

Drawn By: *Dr. [Signature]* Date: 8/1/28  
 Traced By: *[Signature]* Date: 8/1/28  
 Checked By: *[Signature]* Date: \_\_\_\_\_

Scale: 1 in. = 10' ft.  
 BRIDGE No. 914  
 DRAWING No. 1136

*[Signature]*  
 BRIDGE ENGINEER





**FLOOR BEAM DATA**

D.L.M. - 28157 x 205 x 12 x 8	865,000*
L.L.M. -	1,656,000*
I.M. @ 30%	496,300*
Tot. Mom.	3,017,800*
Reqd. Sec. Mod. - 3,017,800 - 18,000 = 167.6	
Sec. Mod. of 24" Belts @ 73.5" - 175.7 - O.K.	

**EXP. DEVICE FOR MULTIPLE SPANS CONCRETE FLOOR SLAB - CLASS "5" EXTRA 1" ADDED FOR WEAR.**  
 Stringers and floor beams to be milled to exact length.  
 This drawing is general only. Shop drawings must be made in compliance with specifications, must be submitted, and approved before fabrication begins.  
 Specifications - Ark. State Highway Specifications adopted 5-30-25 and revised.

**SPECIFICATIONS**

**LIVE LOAD**  
 Uniform - 90# per sq. ft. of rdly.  
 Concentrated - 2.15 ton trucks as shown  
 Impact - 100 - L + 300 Unit Stresses  
 Concrete - 812.5 lbs per sq. in.  
 Steel - 18000 "  
 Rein. Steel - 18000 "

**DETAIL OF LATERAL HANGER AT CENTER OF SPAN**

**ESTIMATED QUANTITIES**

STRUCTURAL STEEL WITHOUT EXP DEVICES 62000 LBS.  
 REINFORCING STEEL (O. TO O. OF END FL. BMS.) 10530 LBS.  
 CLASS "5" CONCRETE (O. TO O. OF END FL. BMS.) 53.92 Cu. Yds.

**STANDARD PLAN**  
**90'0" LOW TRUSS SPAN**  
**18'0" CLEAR ROADWAY**

ROUTE SEC.  
**ARKANSAS STATE HIGHWAY DEPARTMENT**  
 LITTLE ROCK, ARK.

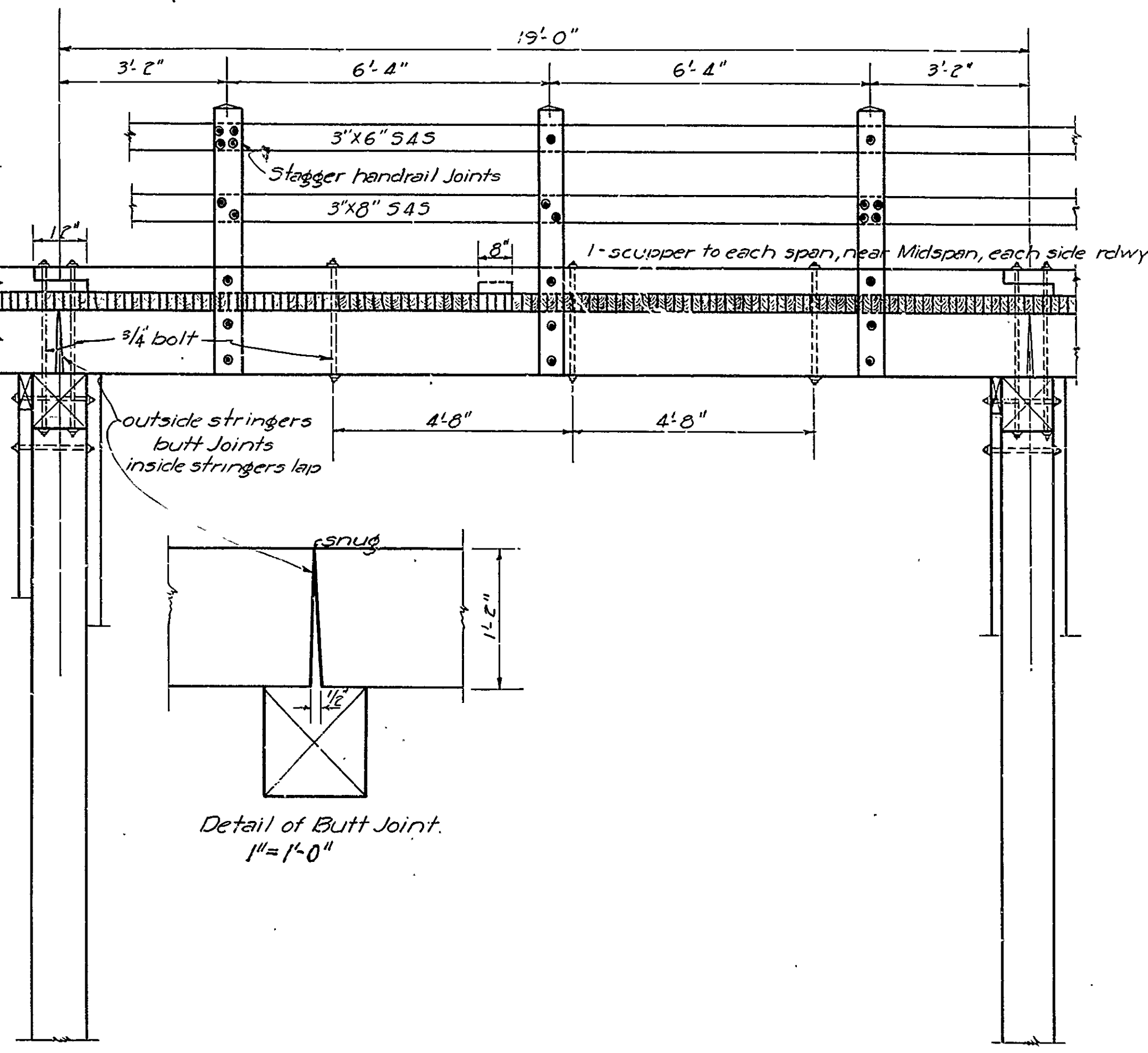
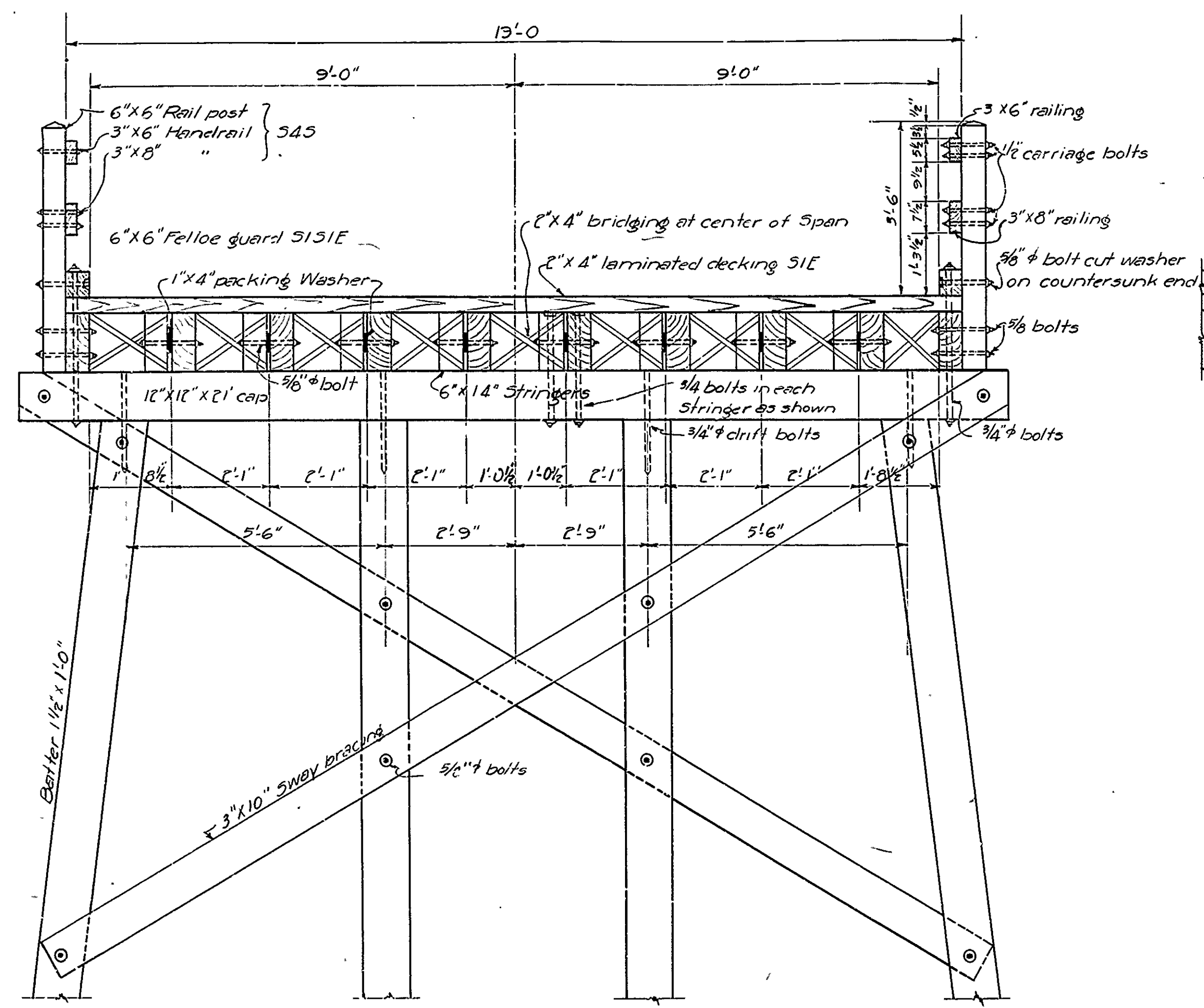
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 Traced By: Noe Date: \_\_\_\_\_  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 BRIDGE NO. \_\_\_\_\_ DRAWING NO. 1054

Scale: 3/4" = 1' ft.

By Noe.



FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1917	19	22

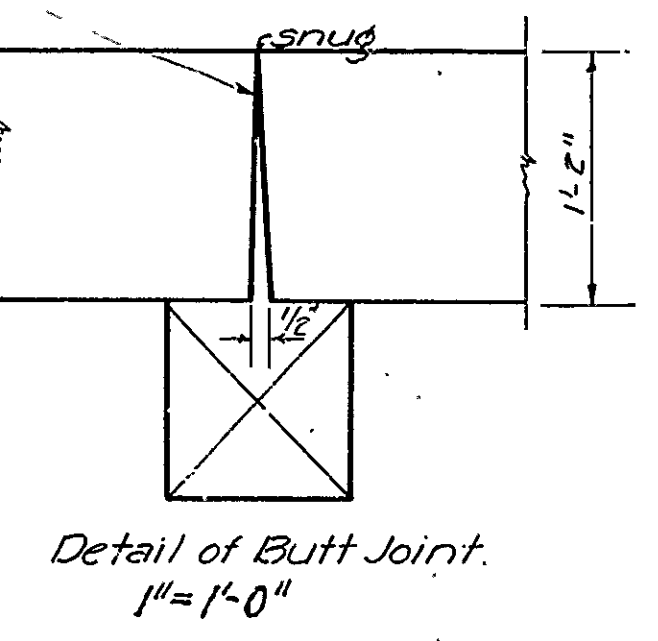


Each Stringer to be spiked to caps with 4-40d spikes and to be sized at bearing points in field. 2"x4" laminated decking S1E. Each piece to be nailed to each adjacent piece between each stringer with 30 d spike. Each piece to be nailed to alternate stringers with 30 d spike. Alternate pieces to be nailed to alternate stringers. Deck ends to be flush.

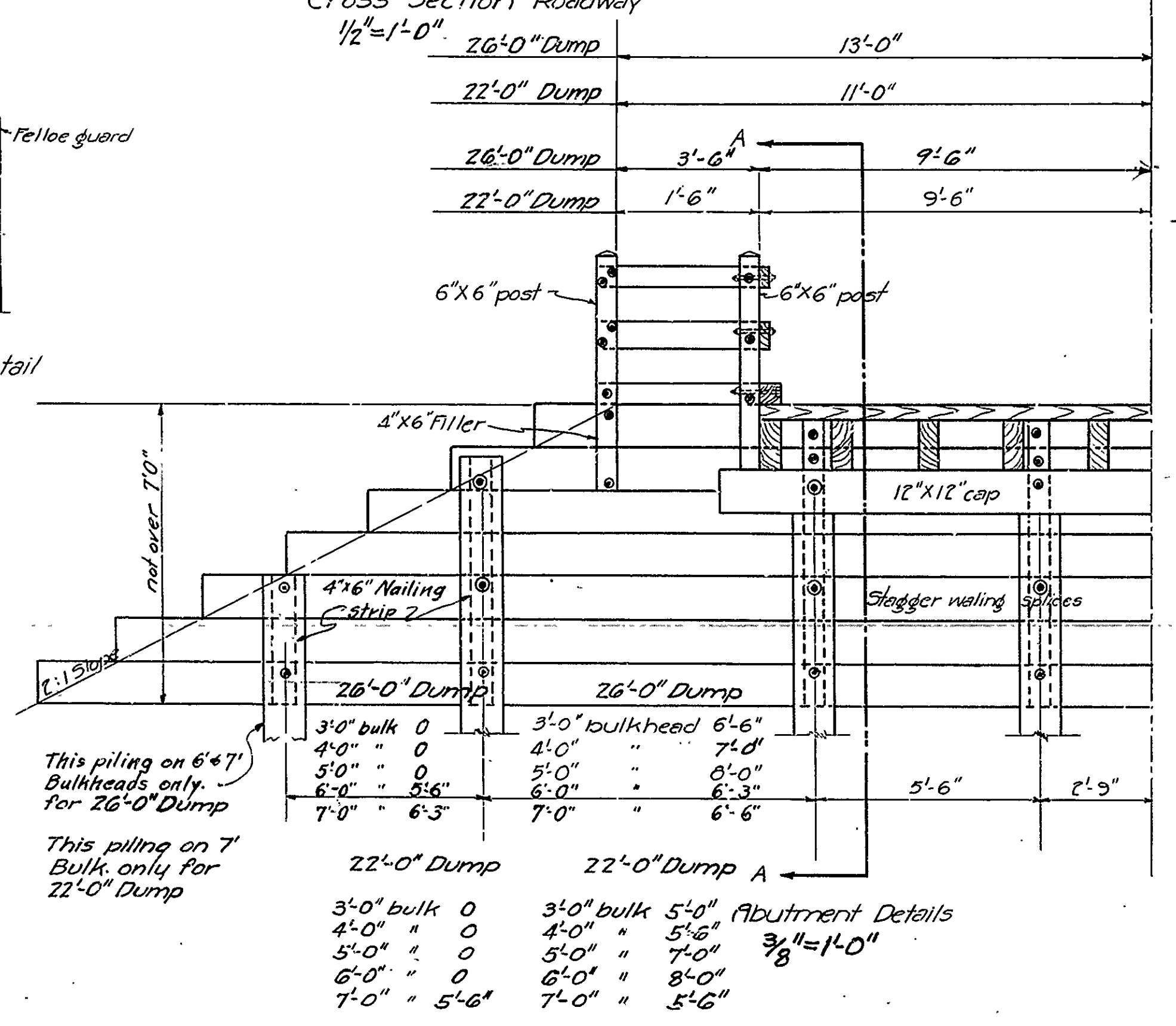
Random length pieces of 2"x4" decking may be used under the following conditions:

1. Each joint to be made on stringers.
2. ... piece shall cover at least 3 stringers.
3. No more than one joint in any length lamma.
4. Each joint to be followed by at least 3 full length pcs.

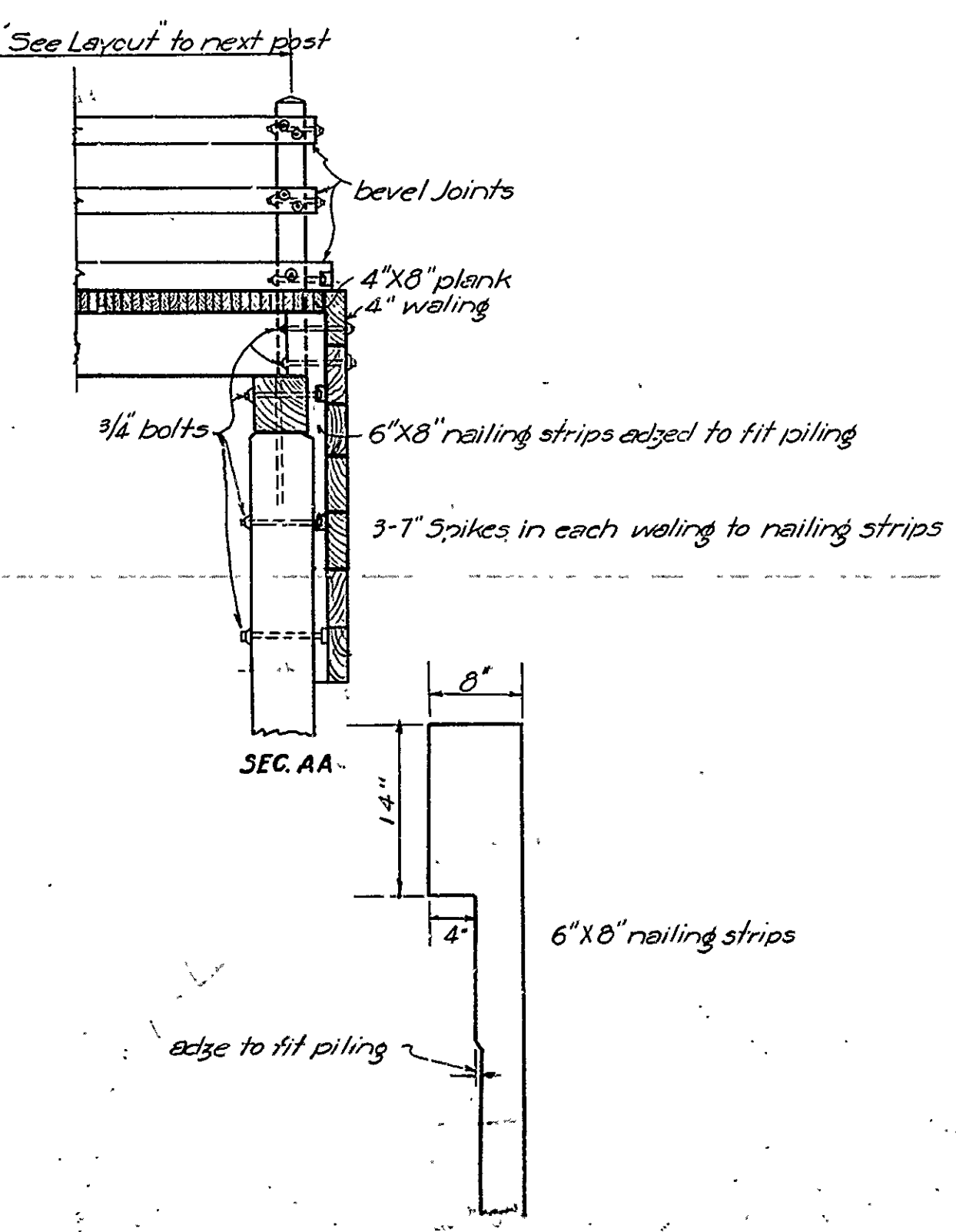
Use Sway bracing on all bents 5'-0" or over in height. Use Malleable or cast iron washers on both ends of Machine bolts unless noted otherwise. All timber and piling except 3x6 and 3x8 rail members, to be treated. Handrail shall be made of untreated, seasoned, dressed, lumber, and shall be painted with 3 coats of paint in accordance with paragraph 52.3(e) of Arkansas State Standard Specifications. All treated timber and piling to be treated by empty cell process in accordance with paragraph 52.2(e) of Arkansas State Standard Specifications. Specifications: Arkansas State Road and Bridge Specifications, adopted May 30, 1925.



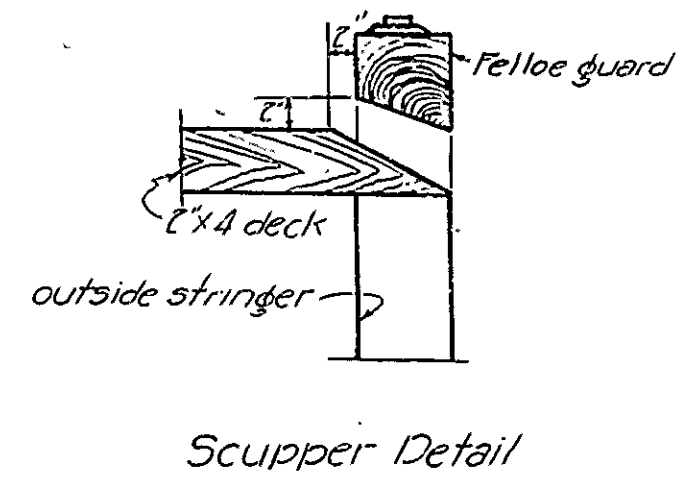
Cross Section Roadway  
1/2" = 1'-0"



Elevation  
1/2" = 1'-0"



Measurement for payment of the 2"x4" laminated Decking shall be computed at 76 (Seventy Six) Ft. B.M. per lineal Ft. of Bridge. Ends of Decking to be Flush.



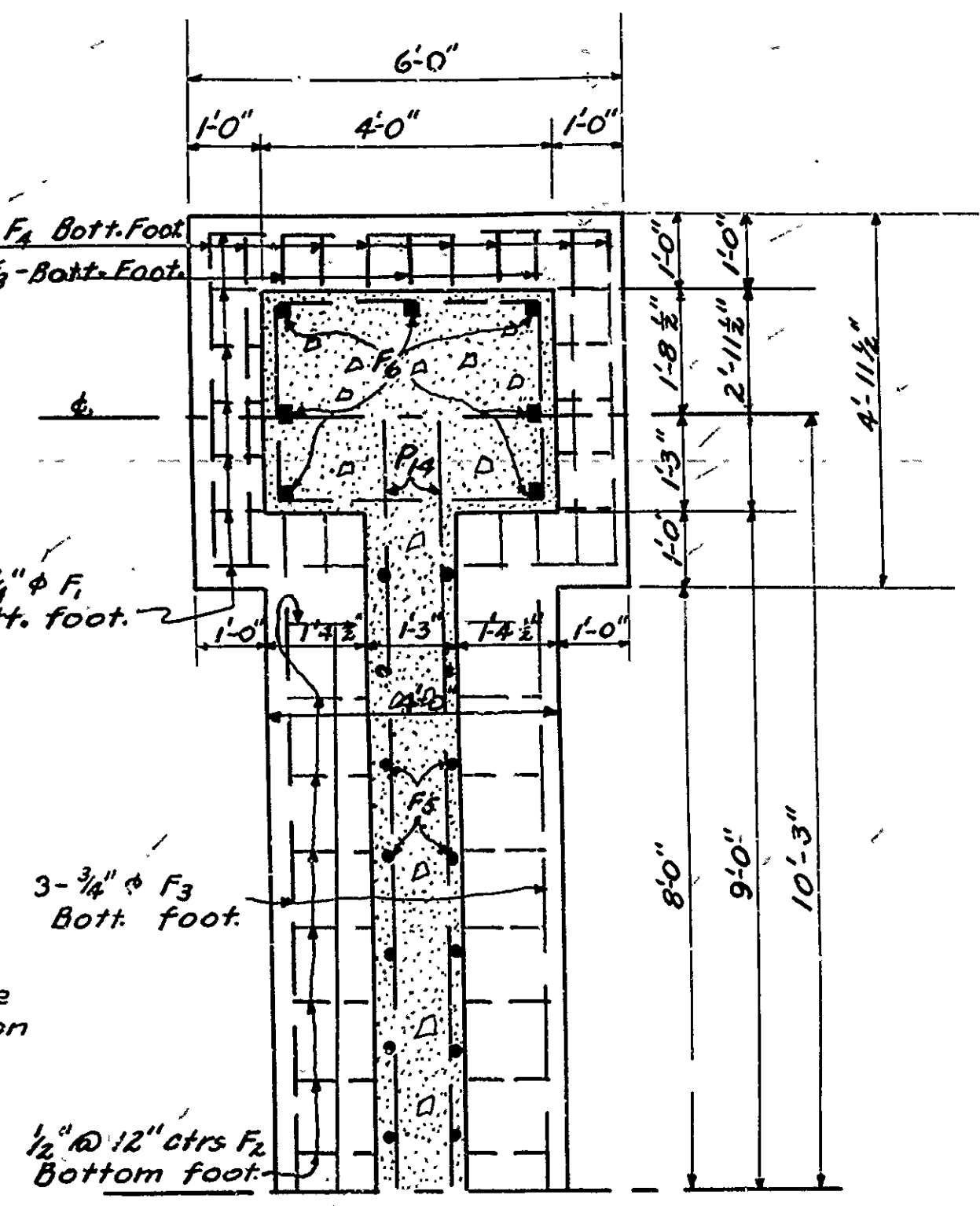
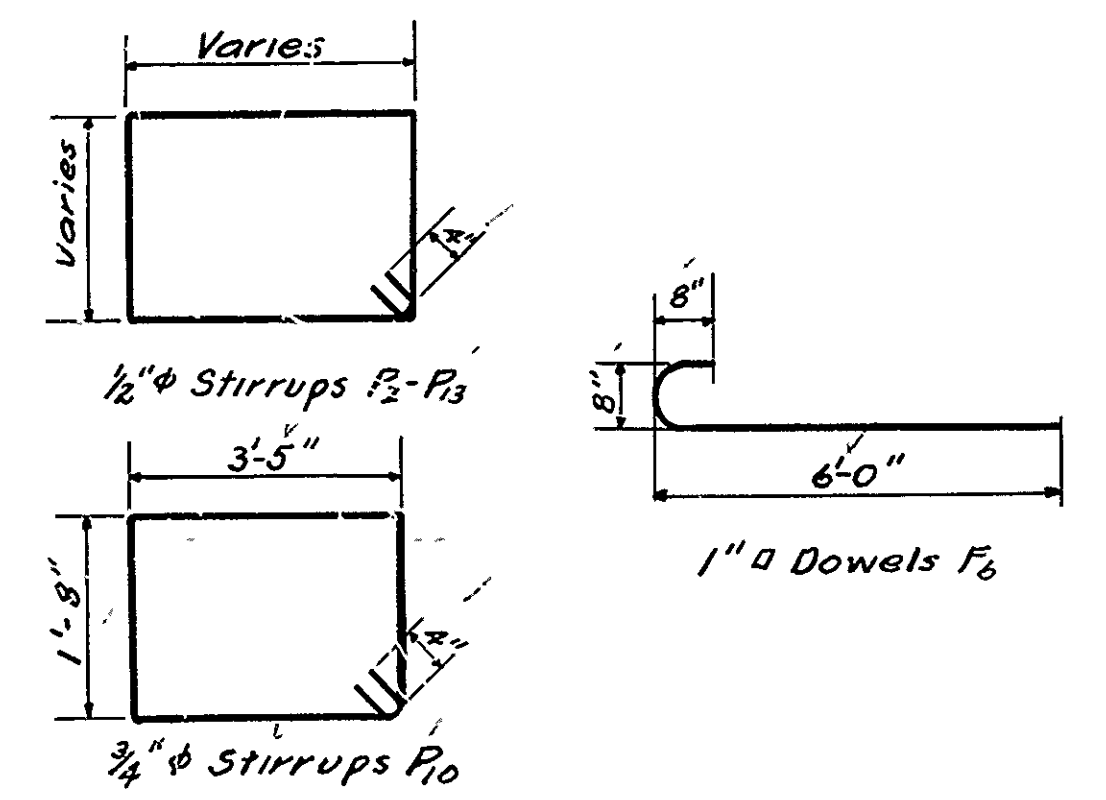
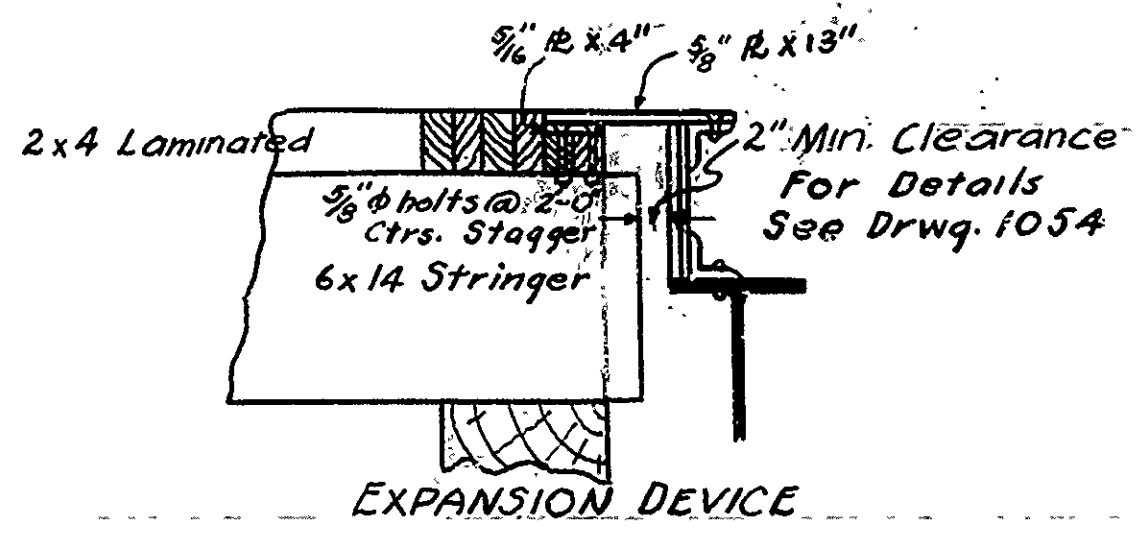
5'-0" bulkhead to 7'-0" (Max)  
2-23-29 FRB

Details  
19'-0" Standard Timber Trestle  
16'-0" Clear Roadway  
ROUTE SEC.  
**ARKANSAS STATE HIGHWAY DEPARTMENT**  
LITTLE ROCK, ARK.  
Scale: as noted  
BRIDGE NO. \_\_\_\_\_ DRAWING NO. 20

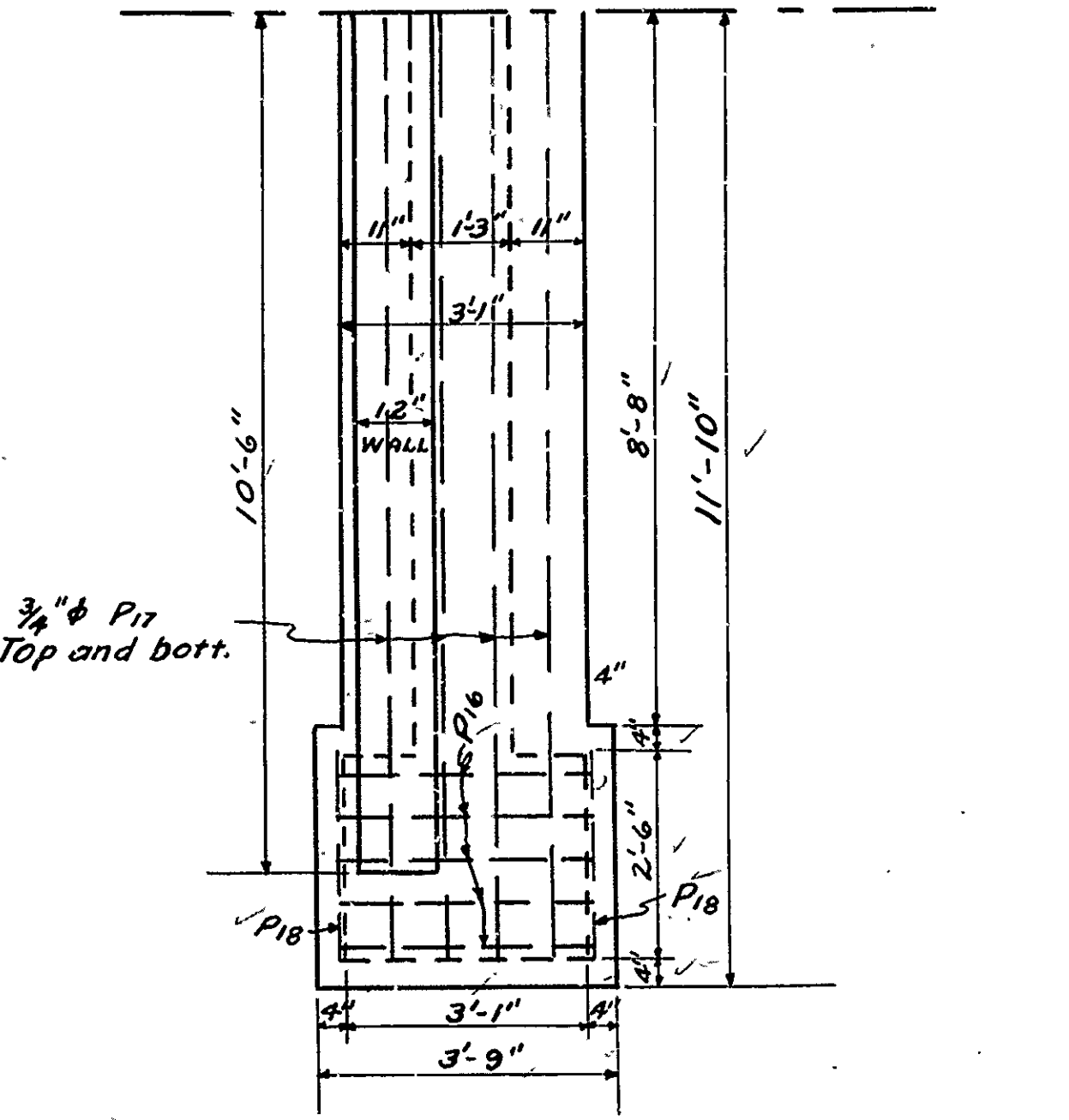
M.B. Gann  
BRIDGE ENGINEER

FISCAL YEAR	Job No.	SHEET NO.	TOTAL SHEETS
1928	574	6	9
P. DETS. PANTHER CR. BR. DR. # 7137			

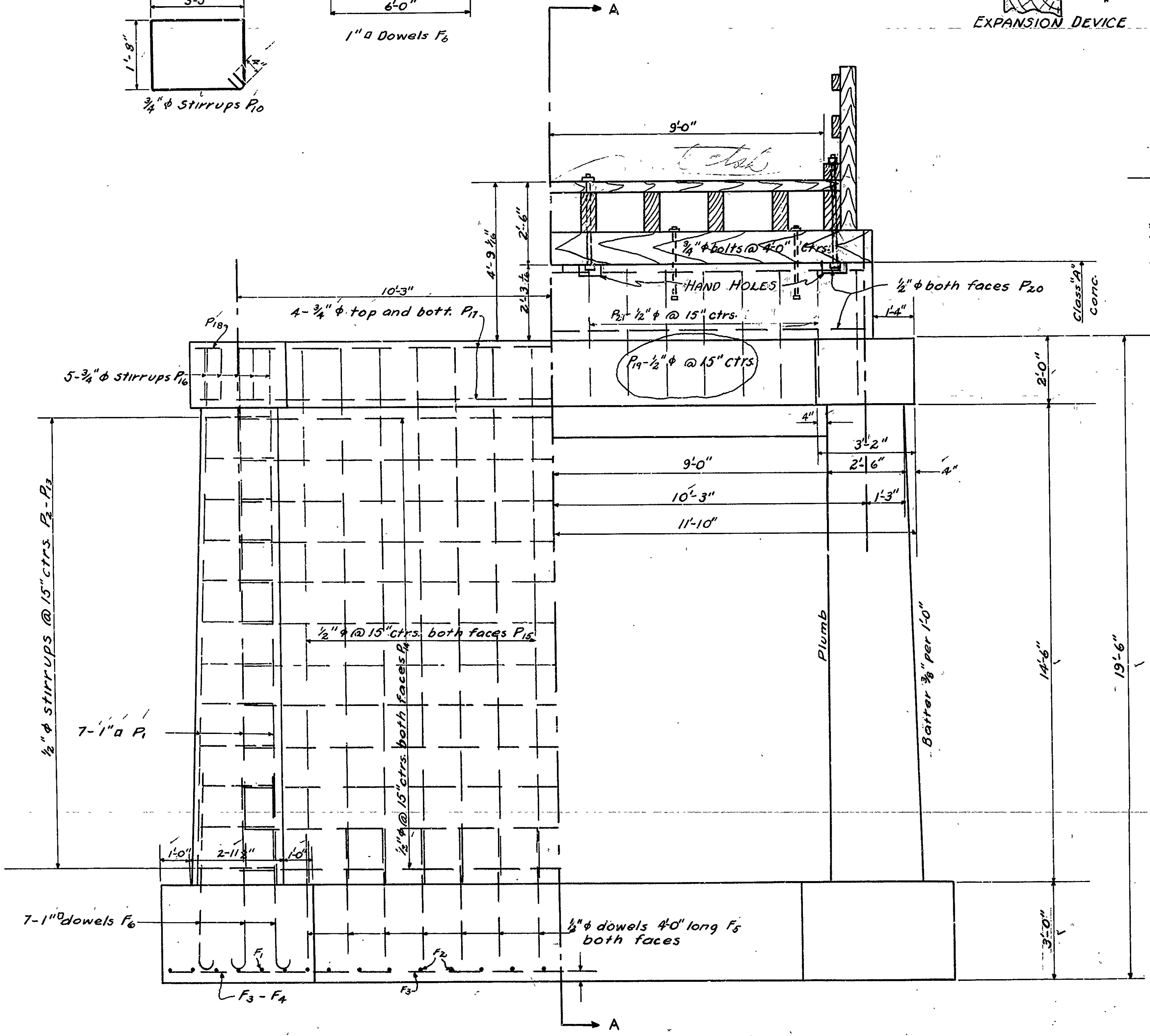
GENERAL NOTES:-  
 All exposed corners to have  $\frac{3}{8}$ " chamfer unless otherwise noted.  
 All concrete to be Class 'A'  
 All concrete to be poured in the dry.  
 Reinforcing Steel to be deformed bars of Structural or Intermediate grade. Shop lists and bending diagrams shall be submitted by Contractor before fabrication is begun. Roadway drains and expansion devices to be paid for at unit price bid for Structural steel.  
 Specifications:- Arkansas Standard Road and Bridge Specifications, Adopted May 30, 1925, and revised.  
 Stresses: Class 'S' conc. -  $f_c = 810 \text{ psi}$   
 $V = 50 \text{ psi}$   
 Reinforcing Steel  $f_s = 18000 \text{ psi}$



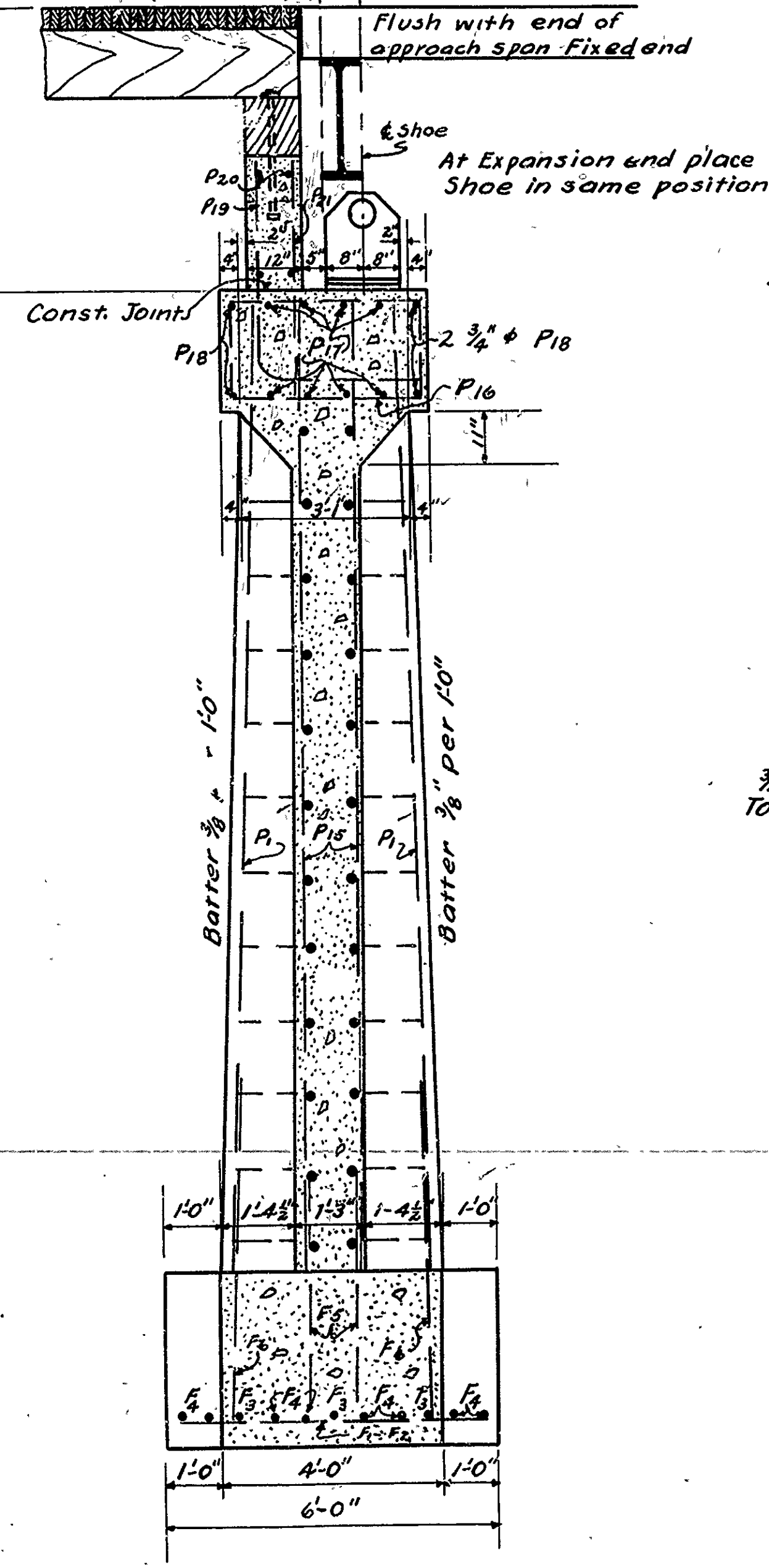
HALF PLAN FOOTING



HALF PLAN CAP



ELEVATION



SECTION A-A

PIER DETAILS

BR. OVER BIG CREEK & PANTHER CR.  
 PANGBURN SEARCY ROAD WHITE CO.

ROUTE 16 SEC. 13  
 ARKANSAS STATE HIGHWAY DEPARTMENT  
 LITTLE ROCK, ARK.

Drawn By: E.P.B. Date: 7-31-28  
 Traced By: G.P.P. Date: 8-1-28  
 Checked By: [Signature] Date: [Signature]  
 BRIDGE NO. 913 & 914 DRAWING NO. 1137

M.B. Seaman  
 BRIDGE ENGINEER