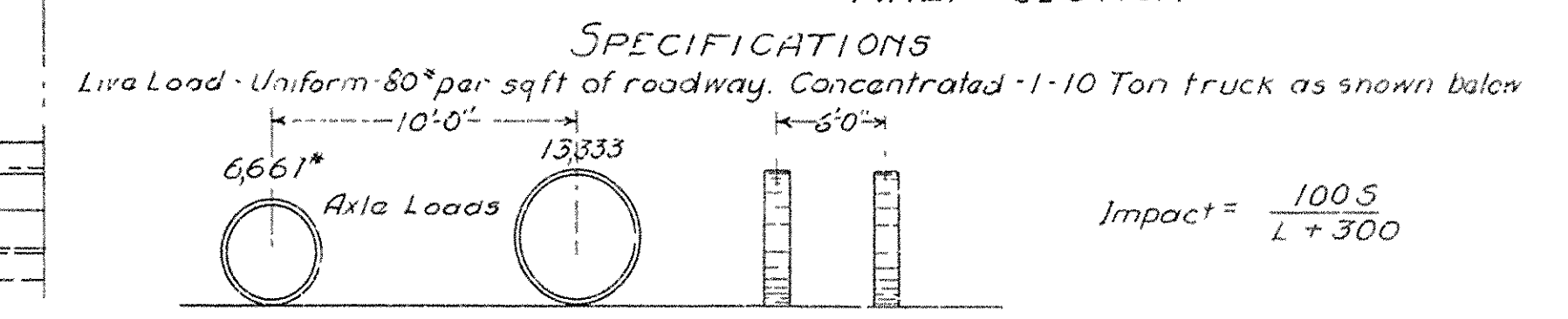
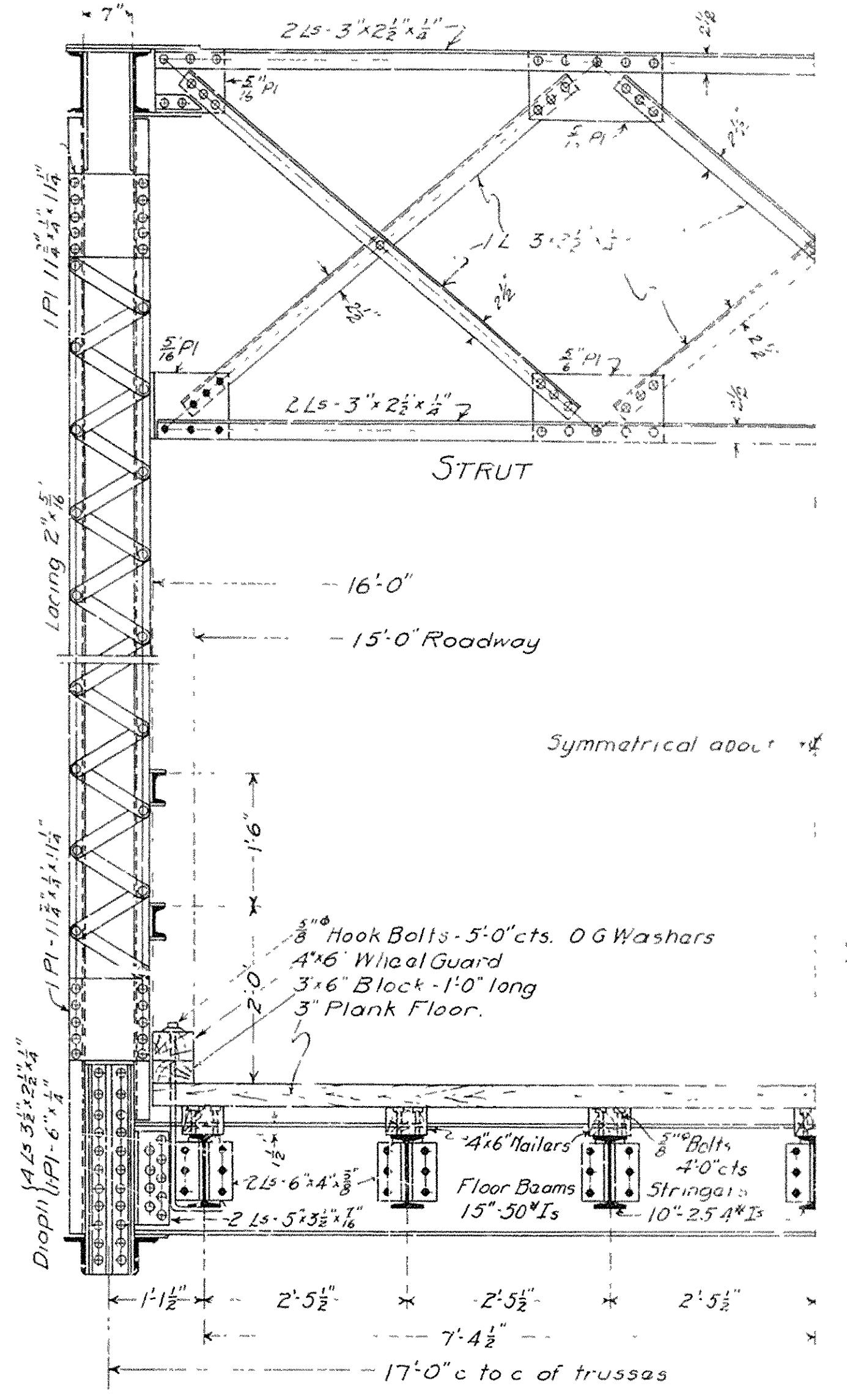
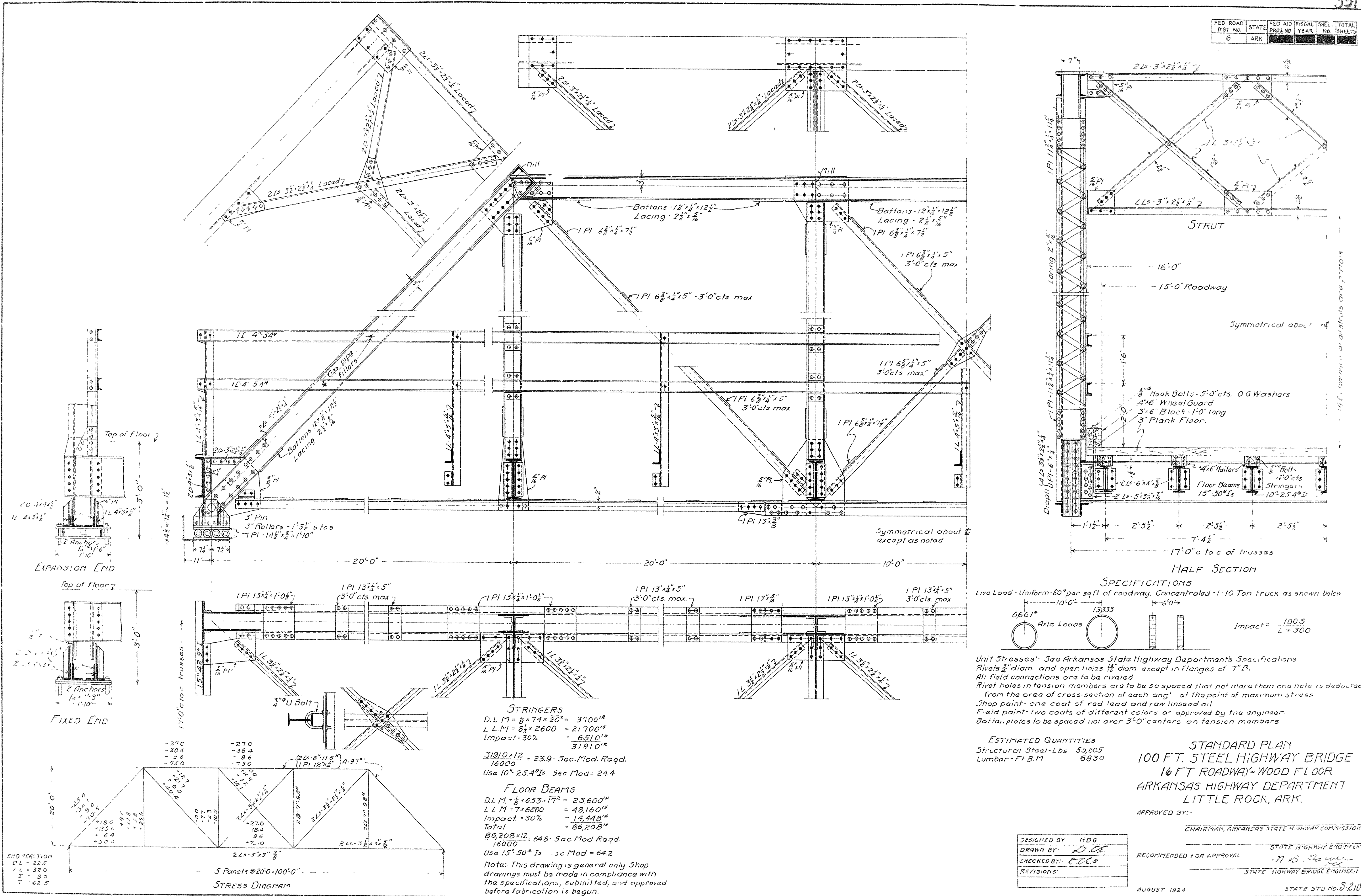


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				



Unit Stresses: See Arkansas State Highway Department's Specifications  
 Rivets 3/4" diam. and openings 1/2" diam except in flanges of T's.  
 All field connections are to be riveted.  
 Rivet holes in tension members are to be so spaced that not more than one hole is deducted from the area of cross-section of each angle at the point of maximum stress.  
 Shop paint: one coat of red lead and raw linseed oil.  
 Field paint: two coats of different colors as approved by the engineer.  
 Battens/plates to be spaced not over 3'-0" centers on tension members.

ESTIMATED QUANTITIES  
 Structural Steel-Lbs 53,605  
 Lumber-Ft B.M 6830

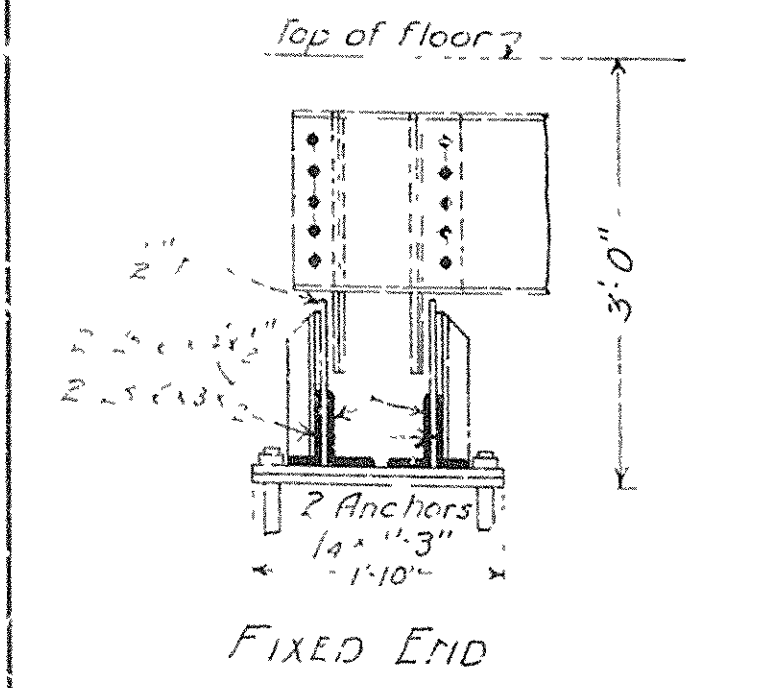
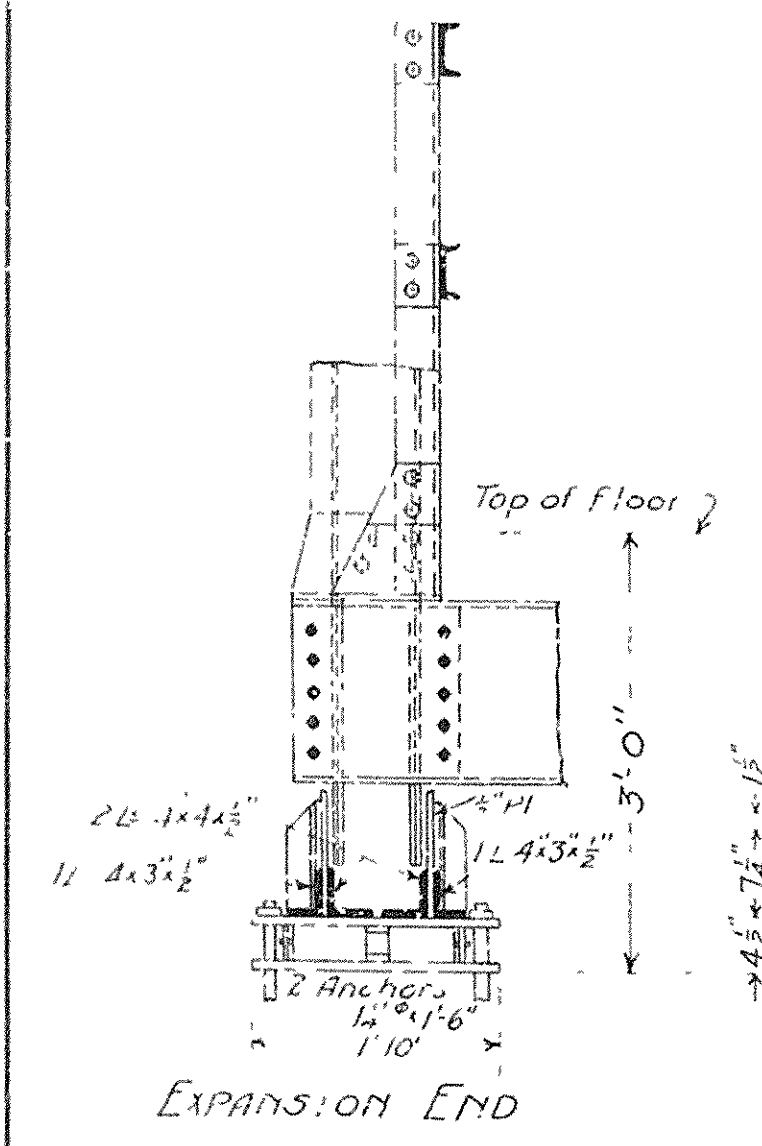
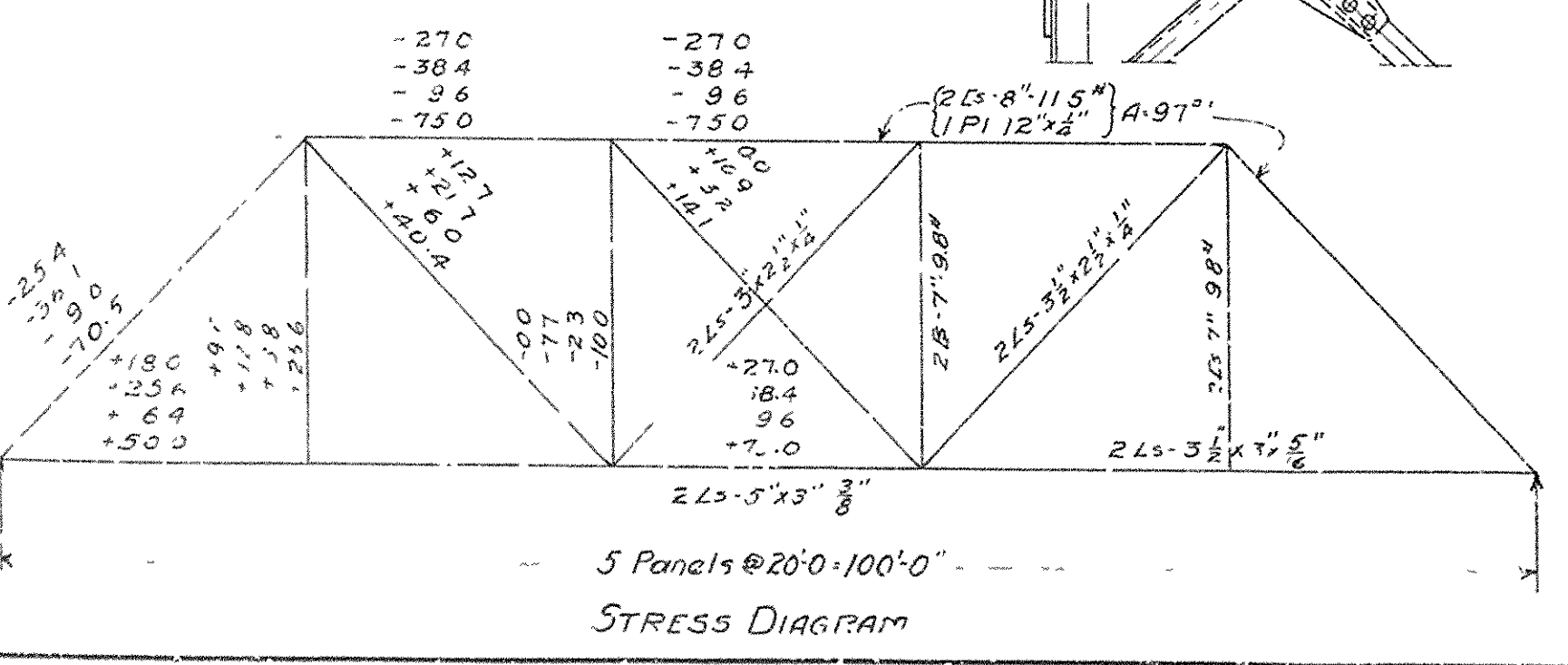
STANDARD PLAN  
 100 FT. STEEL HIGHWAY BRIDGE  
 16 FT ROADWAY- WOOD FLOOR  
 ARKANSAS HIGHWAY DEPARTMENT  
 LITTLE ROCK, ARK.

APPROVED BY: \_\_\_\_\_  
 CHAIRMAN, ARKANSAS STATE HIGHWAY COMMISSION  
 DESIGNED BY: H.B.G.  
 DRAWN BY: D.C.  
 CHECKED BY: E.C.C.  
 REVISIONS:  
 STATE HIGHWAY ENGINEER  
 AUGUST 1924  
 STATE STD. NO. S-210

STRINGERS  
 $D.L.M. = \frac{1}{8} \times 74 \times 20^2 = 3700^{lb}$   
 $L.L.M. = \frac{8}{3} \times 2600 = 21700^{lb}$   
 Impact = 30% = 6510<sup>lb</sup>  
 $\frac{31910 \times 12}{16000} = 23.9$  Sec. Mod. Reqd.  
 Use 10" 25.4<sup>lb</sup> I's. Sec. Mod. = 24.4

FLOOR BEAMS  
 $D.L.M. = \frac{1}{8} \times 653 \times 17^2 = 23600^{lb}$   
 $L.L.M. = 7 \times 6880 = 48160^{lb}$   
 Impact = 30% = 14,448<sup>lb</sup>  
 Total = 86,208<sup>lb</sup>  
 $\frac{86,208 \times 12}{16000} = 64.8$  Sec. Mod. Reqd.  
 Use 15" 50<sup>lb</sup> I's. Sec. Mod. = 64.2

Note: This drawing is general only Shop drawings must be made in compliance with the specifications, submitted, and approved before fabrication is begun.



END REACTION  
 D.L. = 22.5  
 L.L. = 32.0  
 I. = 8.0  
 T. = 62.5