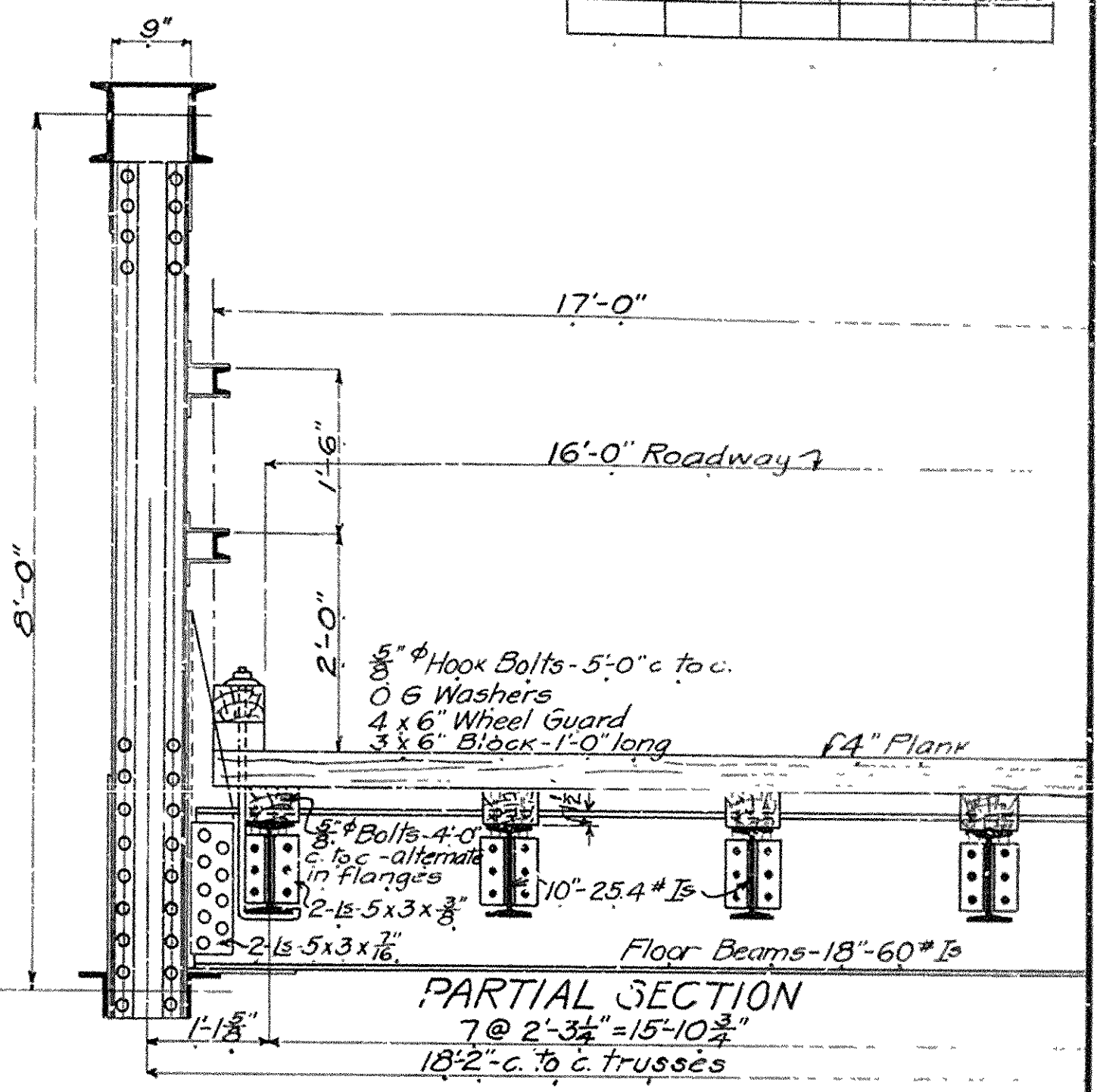
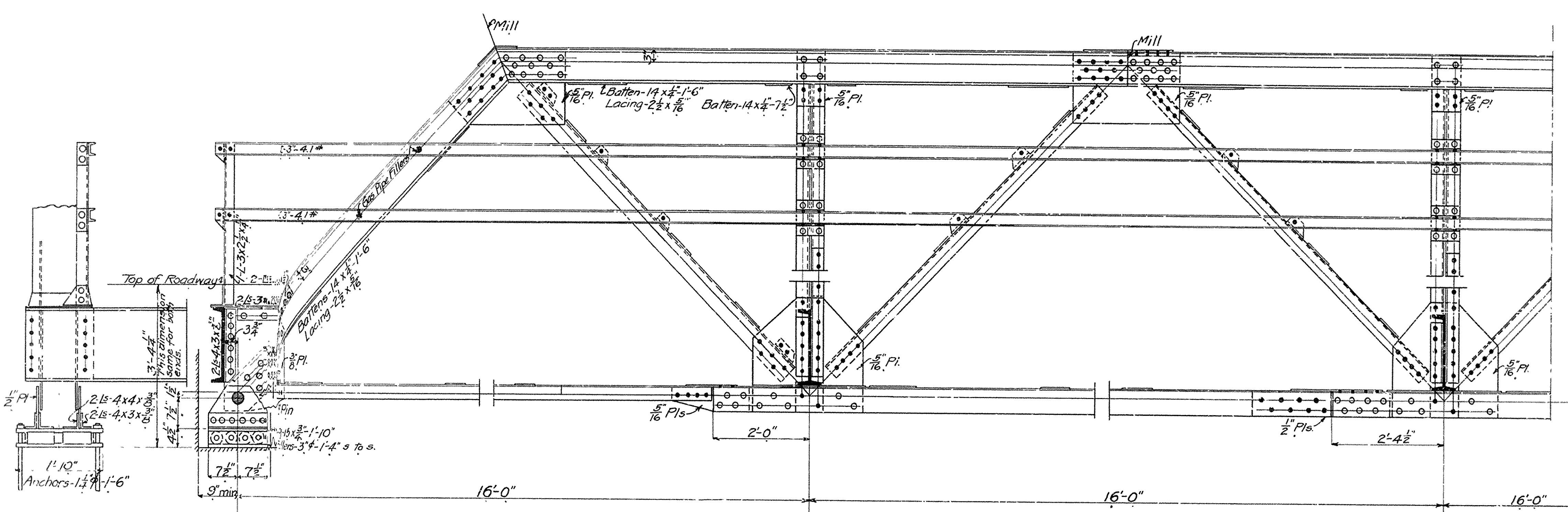
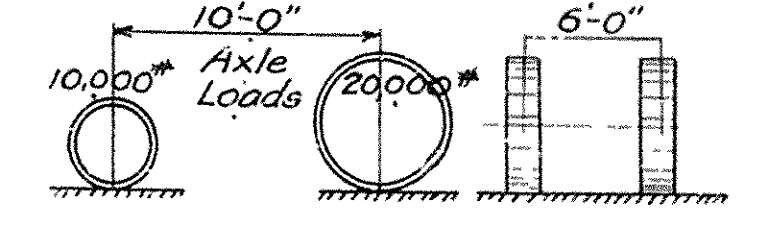


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



**SPECIFICATIONS**  
 Live Load:- Uniform, - 80 lbs per square foot of roadway  
 Concentrated, - 15-Ton Truck as shown below



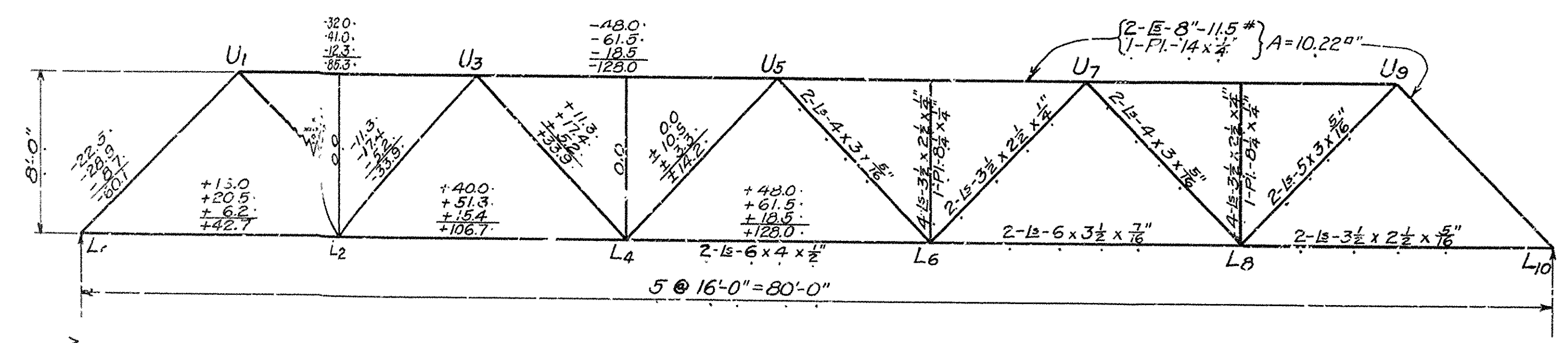
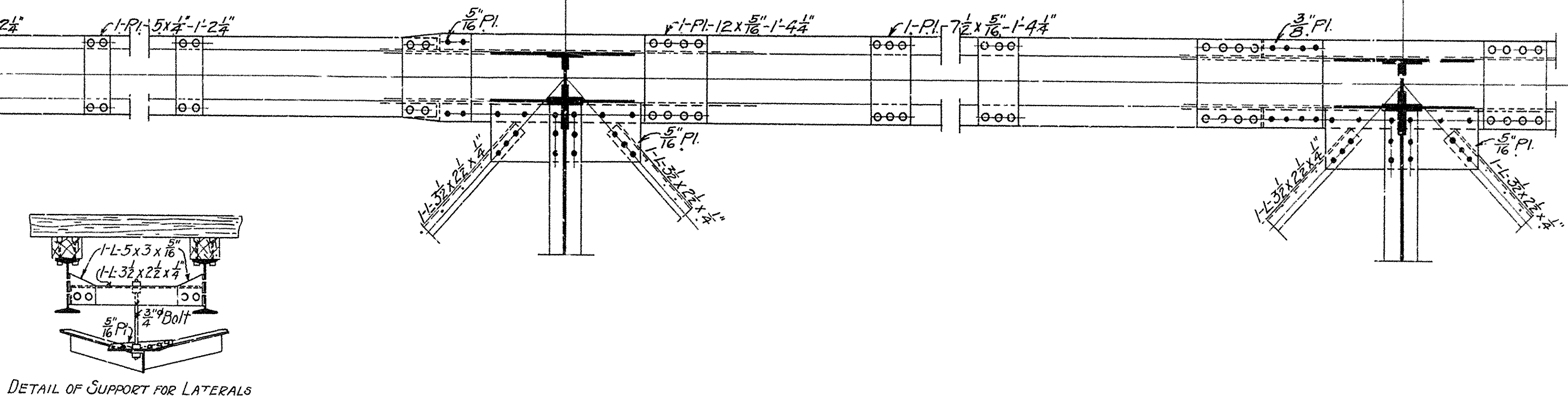
Impact - 30% of live load  
 Unit Stresses - See Arkansas Highway Department Specifications  
 Rivets - 3/4" diam.  
 Open Holes - 1/8" diam.  
 All field connections riveted. Rivet holes in tension members are to be so spaced that not more than one hole is deducted from area of cross-section of each angle at point of maximum stress  
 Shop Paint - One coat red lead and boiled linseed oil.  
 Field Paint - Two coats of different colors as approved by the engineer

**STRINGERS**  
 D.L.M. =  $\frac{1}{8} \times 75 \times 16^2 = 2,400'$   
 L.L.M. =  $\frac{1}{4} \times 5620 \times 16 = 22,450$   
 Impact 30% = 6,735  
 Total = 31,585'

**FLOOR BEAMS**  
 D.L.M. =  $\frac{1}{8} \times 588 \times 18^2 = 24,250'$   
 L.L.M. =  $\frac{1}{4} \times 9950 \times 18 = 75,400$   
 Impact 30% = 22,620  
 Total = 122,270

$\frac{31,585 \times 12}{16,000} = 23.7 = \text{Sec. Mod Req'd}$      $\frac{122,270 \times 12}{16,000} = 91.8 = \text{Sec Mod Req'd}$   
 Use 10"-25.4" I - Sec. Mod = 24.4    Use 18"-60" I - Sec. Mod = 93.1  
 Estimated weight of steel = 48,600'  
 Lumber 7,275. Ft. B.M.

NOTE:- This drawing is general only. Shop drawings must be made in compliance with specifications and must be submitted and approved before fabrication begins.



**STANDARD PLAN**  
 80-FT. STEEL HIGHWAY BRIDGE  
 16'- ROADWAY  
 ARKANSAS HIGHWAY DEPARTMENT  
 LITTLE ROCK, ARK.

DESIGNED:- N.B.G.  
 TRACED:- E.H.E.  
 CHECKED:-  
 REVISION:-

Approved:- Commissioner State Lands, Highways & Improvements  
 By:- State Highway Engineer  
 August, 1922