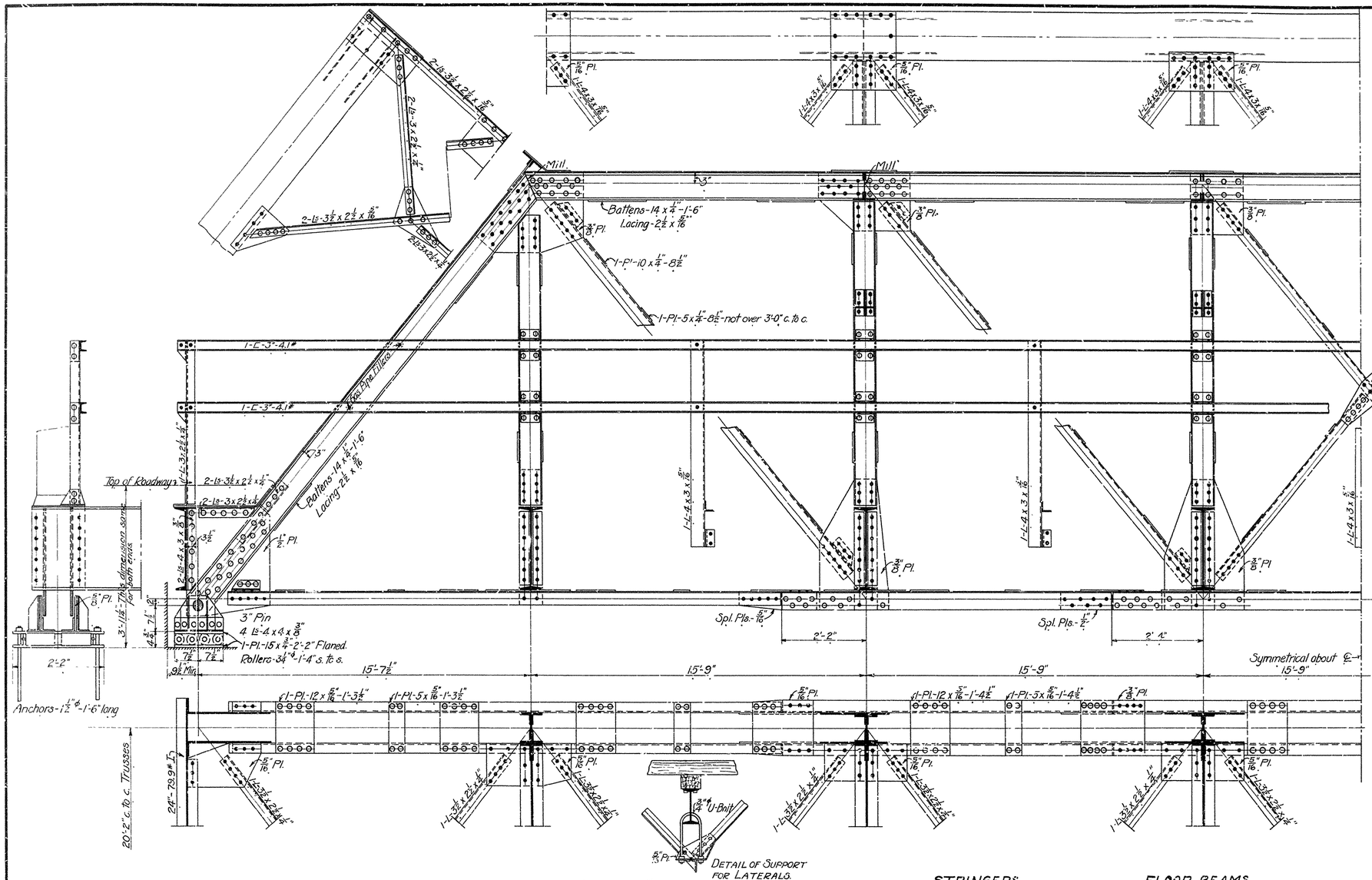
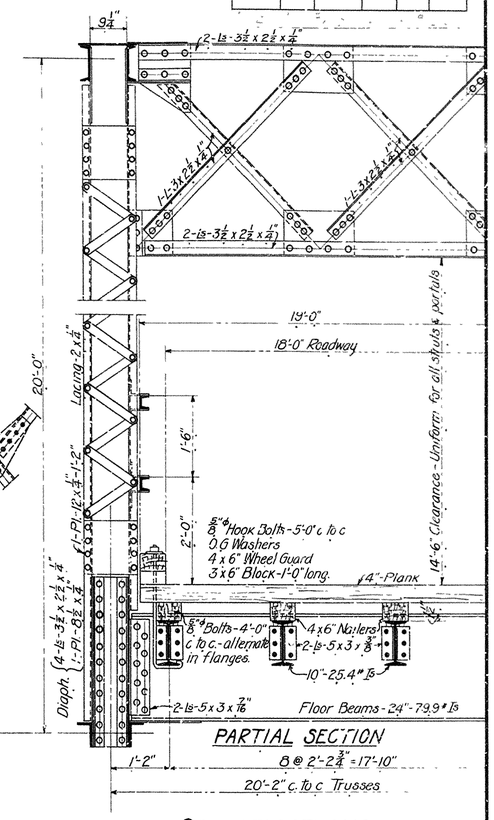
FED ROAD DIST NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS





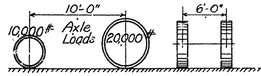
PARTIAL SECTION

8 @ 2'-2¾" = 17'-10"

20'-2" c. to c. Trusses

SPECIFICATIONS

Live Load :- Uniform, - 78 lbs. per square foot of roadway
Concentrated :- Two 15- Ton Trucks as shown below



Impact :- 30% of live load
Unit Stresses :- See Arkansas Highway Department Specifications.
Rivets :- ¾" diam. except in flanges of 7" channels.
Open Holes :- 13/16" 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 eng'r
Batten Plates spaced not over 3'-0" c. to c.
Estimated weight of steel = 84,640.# Lumber = 11,055. Ft B.M.

STRINGERS

D.L.M. = ⅜ x 74 x 15.75² = 2,300'#
L.L.M. = ¼ x 5600 x 15.75 = 22,100
Impact 30% = 6,630
Total = 31,030'#.

31,030 x 12 / 16,000 = 23.3 = Sec. Mod. Req'd.

Use 10"-25.4# I - Sec. Mod. = 24.4

FLOOR BEAMS

D.L.M. = ⅜ x 602 x 20.17² = 30,600'#
L.L.M. = 8.58 x 23,960 - 6 x 11,830 = 132,520
Impact 30% = 39,756
Total = 202,876'#

202,876 x 12 / 16,000 = 152.2 = Sec. Mod. Req'd

Use 24"-79.9# I - Sec. Mod. = 173.9.

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

110-FT. STEEL HIGHWAY BRIDGE.

18' ROADWAY

ARKANSAS HIGHWAY DEPARTMENT

LITTLE ROCK, ARK.

DESIGNED	N.B.G.
TRACED	E.H.F.
CHECKED	
REVISIONS	

Approved :-
Commissioner State Lands, Highways & Improvements

By :-
State Highway Engineer.
Oct., 1922

STATE STANDARD NO F-411-A.

K-63