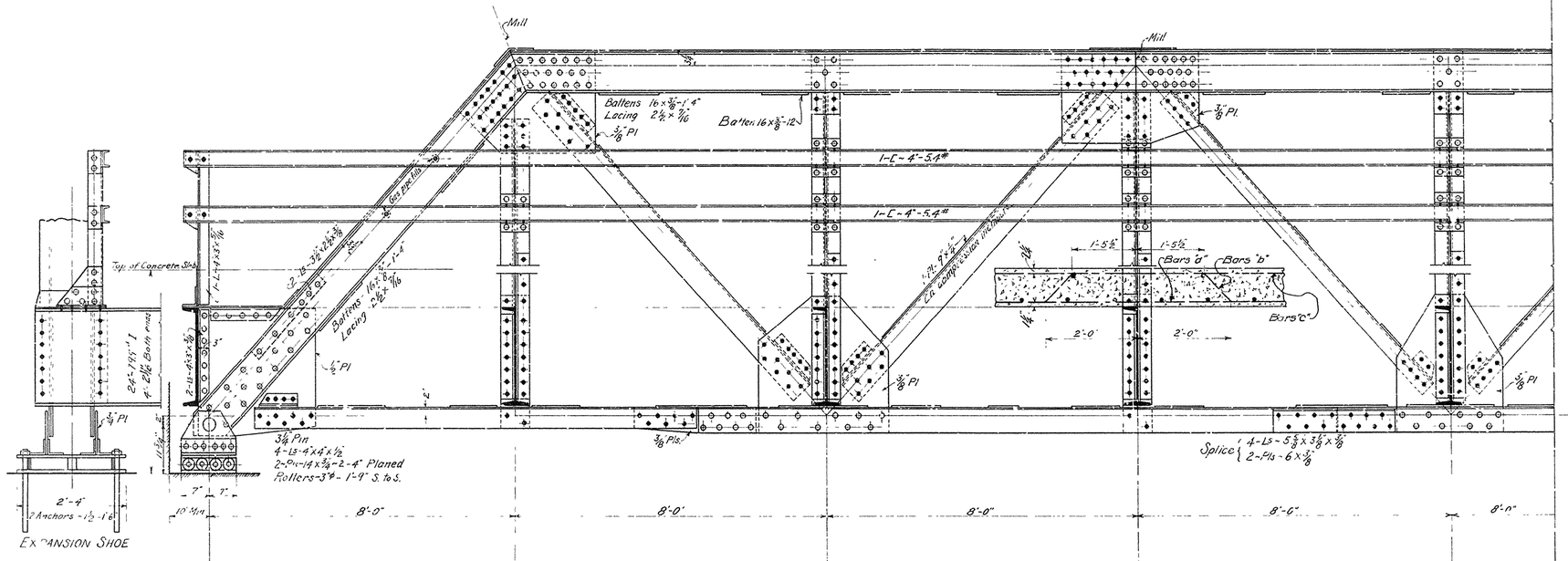
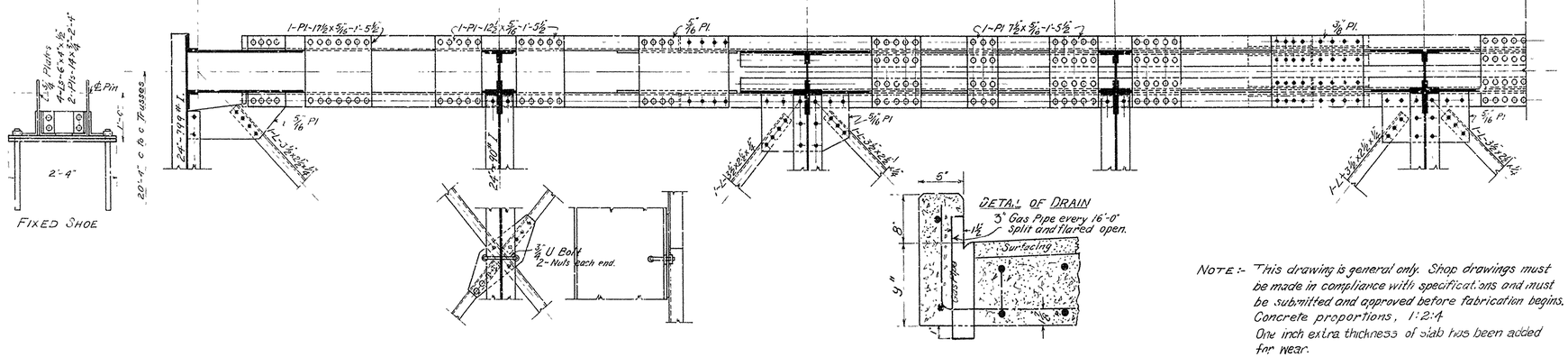
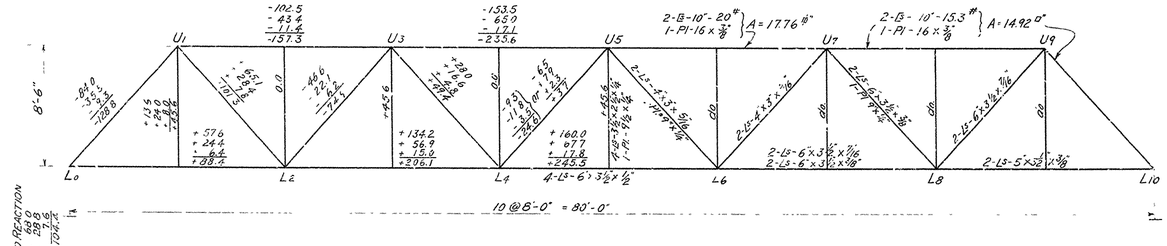
FED. AID PROJ. NO.	STATE	FED AID DIST NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	ARK.	6			



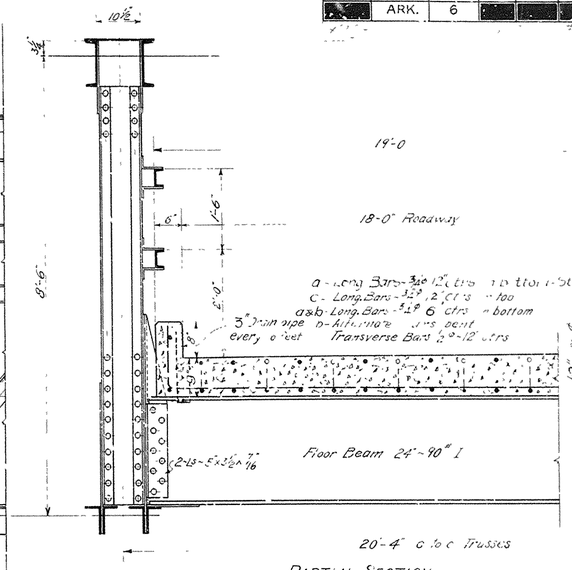


FIXED SHOE



END REACTION
D.L. 68.0
L.L. 39.6
I. 7.6
T. 104.2

DESIGNED	N.B.G.
TRACED	W.R.M.
CHECKED	N.B.G.
REVISIONS	SLAB - 9-20-27-M.W.K.



PARTIAL SECTION

SPECIFICATIONS.

Live Load:- Uniform, - 80 lbs. per square foot of Roadway.
Concentrated:- 2-15 Ton Trucks as shown

$$\text{Impact} = \frac{100\,S}{L + 300}$$

Unit Stresses:- See Arkansas Highway Department Specifications.
Rivets:- 3/4" diam.
Open Holes:- 1 1/16" 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 raw linseed oil.
Field Paint:- Two coats of different colors as approved by the engineer.
Batten plates spaced not over 3'-0" C to C. on tension members.

NOTE:- This drawing is general only. Shop drawings must be made in compliance with specifications and must be submitted and approved before fabrication begins.
Concrete proportions, 1:2:4
One inch extra thickness of slab has been added for wear.

FLOOR BEAMS

D.L.M. = 1/8 x 1180 x 20.33 ² = 60,900 #
L.L.M. = 8 2/3 x 24,000 - 6 x 12,000 = 136,200
Impact 33 1/3 % = 45,000
Total = 242,100 #

$$\frac{242{,}100 \times 12}{16{,}060} = 1820 = \text{Req'd Sec Mod.}$$

Use 24"-90.0 # I, Sec. Mod. = 185.8

Estimated weight of structural steel = 60,300 #
Estimated weight of Reinforcing steel = 7878 #
Estimated Cu. Yds. Class "S" Concrete in floor slab = 47.53

STANDARD PLAN

80-FT. STEEL HIGHWAY BRIDGE
18' ROADWAY ~ CONC. FLOOR

ARKANSAS HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Approved:- Chairman, Arkansas State Highway Commission.

By:- State Highway Engineer

April, 1924

STATE STANDARD No. F-708-A