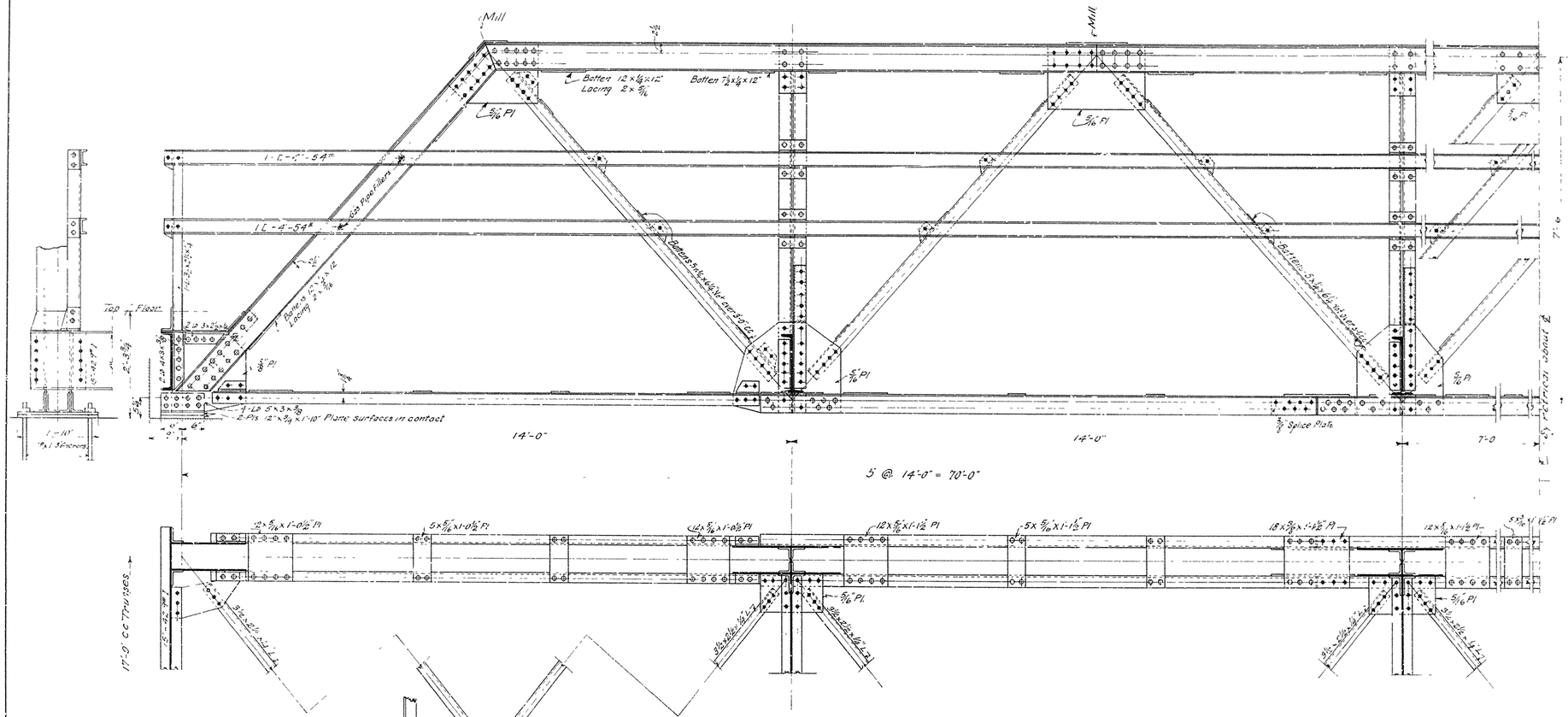
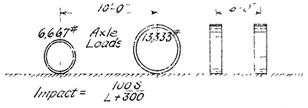
FED ROAD DIST No	STATE	FED AID PROJ No	FISCAL YEAR	SHEET No	TOTAL SHEETS
6	ARK				



STRESS DIAGRAM

SPECIFICATIONS.

Live Load:- Uniform, ~ 80# per sq ft of Roadway
Concentrated ~ 1-10 Ton Truck as shown below



Unit Stresses:- See Arkansas Highway Department Specifications
Rivets:- ¾" diam. except in flanges of 7" Ls
Open Holes:- 15/16" diam. except in flanges of 7" Ls
All field connections riveted. Rivet holes in tension members are to be so spaced that not more than one hole is deducted from any section of cross section of each angle at the point of maximum stress
Shop Paint:- One coat red lead and boiled linseed oil.
Field Paint:- Two coats of different colors as approved by Mr. Engineer
Batten plates spaced not over 3'-0" c. to c. on tension members

STRINGERS

D.L.M. = 1/8 × 6" × 14² = 1690'#
L.L.M. = ¼ × 4100 × 14 = 14400'#
Impact = 30% = 4320'#
20,410'#

20410 × 12 / 16000 = 15.4 = Sec. Mod. Reqd.
Use 8" - 21.8# Is ~ Sec. Mod. = 18.9

FLOOR BEAMS

D.L.M. = ⅛ × 437 × 17.11² = 15800'#
L.L.M. = 7 × 6300 = 44,100'#
Impact = 30% = 13,230'#
73,130'#

73130 × 12 / 16000 = 55.0 = Reqd. Sec. Mod.
Use 15" - 42.9# Is ~ Sec. Mod = 58.9

ESTIMATED QUANTITIES

Structural Steel, - Lbs. ~ 35,000
Lumber, - Ft. B.M. ~ 4860

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

Designed By	N.B.G.
Drawn By	W.R.M.
Checked By	
Revisions	

STANDARD PLAN
70 FT. STEEL HIGHWAY BRIDGE
16 FT. ROADWAY - WOOD FLOOR

ARKANSAS HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

APPROVED: _____ CHAIRMAN, ARKANSAS STATE HIGHWAY COMMISSION
APPROVED: _____ STATE HIGHWAY ENGINEER
RECOMMENDED FOR APPROVAL: _____ STATE HIGHWAY BRIDGE ENGINEER

March 27 1925 — State Std No. S-207