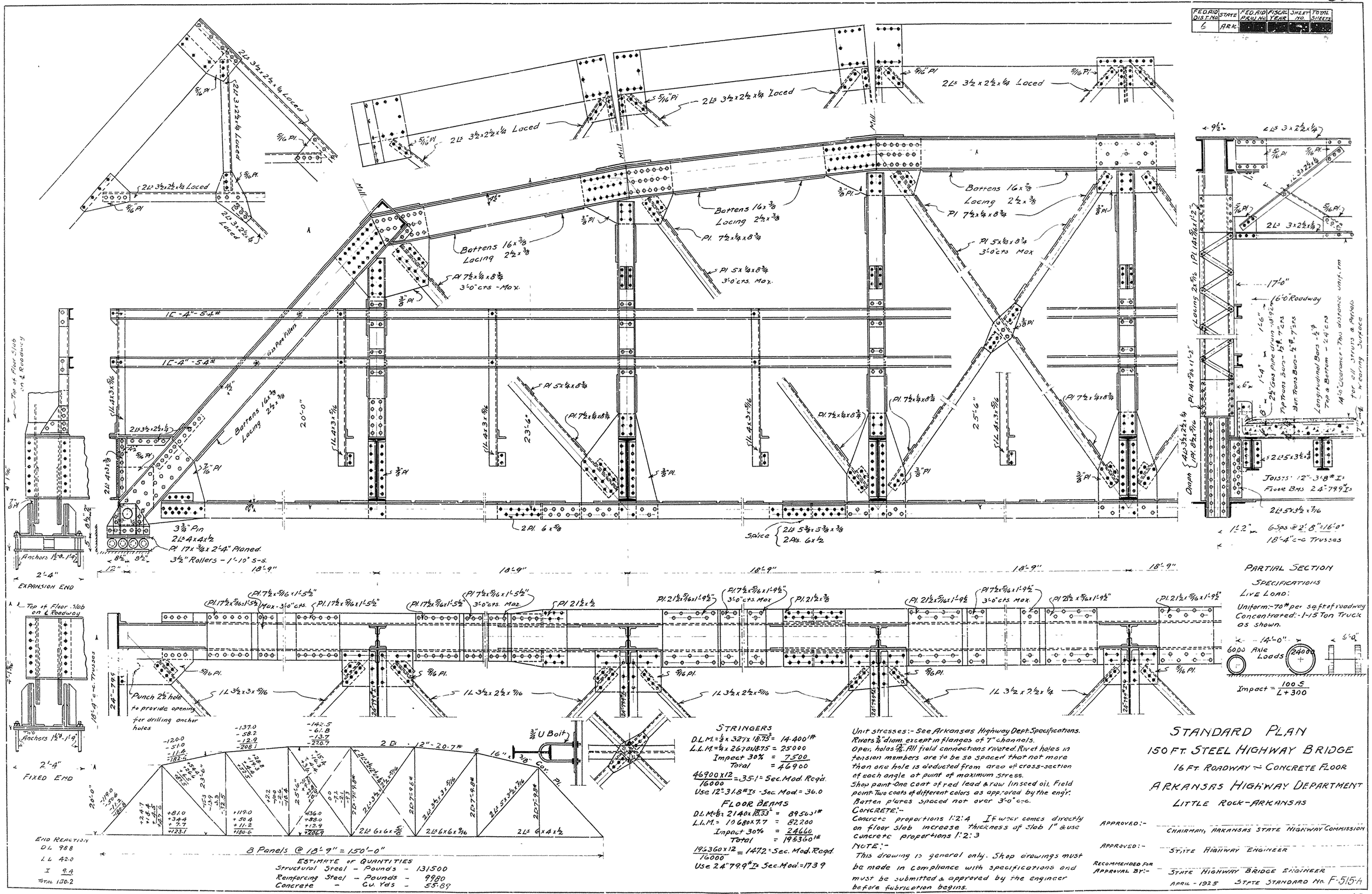
FED. RD. DIST. NO.	STATE	FED. RD. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				



STRINGERS

D.L. M. = ½ x 327 x 18.75² = 14.400'#
L.L. M. = ½ x 2670 x 18.75 = 25000
Impact 30% = 7500
Total = 46900

46900 x 12 / 16000 = 35.1 = Sec. Mod. Req'd.
Use 12"-31.8# Is - Sec. Mod = 36.0

FLOOR BEAMS

D.L. M. = 1/8 x 2140 x 18.33² = 89503'#
L.L. M. = 10680 x 7.7 = 82200
Impact 30% = 24660
Total = 196360'#

196360 x 12 / 16000 = 147.2 = Sec. Mod. Req'd.
Use 24"-79.9# Is Sec. Mod = 173.9

Unit stresses:- See Arkansas Highway Dept. Specifications.
Rivets ¾" diam. except in flanges of 7" channels.
Open holes ⅝". 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 of red lead & raw linseed oil. Field paint-Two coats of different colors as approved by the engr.
Batten plates spaced not over 3'-0" c-c.

CONCRETE:-
Concrete proportions 1:2:4. If water comes directly on floor slab increase thickness of slab 1" & use concrete proportions 1:2:3

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

ESTIMATE of QUANTITIES

Structural Steel	- Pounds	- 131500
Reinforcing Steel	- Pounds	- 9980
Concrete	- Cu. Yds	- 55.89

STANDARD PLAN
150 FT. STEEL HIGHWAY BRIDGE
16 FT. ROADWAY — CONCRETE FLOOR
ARKANSAS HIGHWAY DEPARTMENT
LITTLE ROCK - ARKANSAS

APPROVED:- CHAIRMAN, ARKANSAS STATE HIGHWAY COMMISSION

APPROVED:- STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL BY:- STATE HIGHWAY BRIDGE ENGINEER

APRIL - 1925 STATE STANDARD No. F-515-A