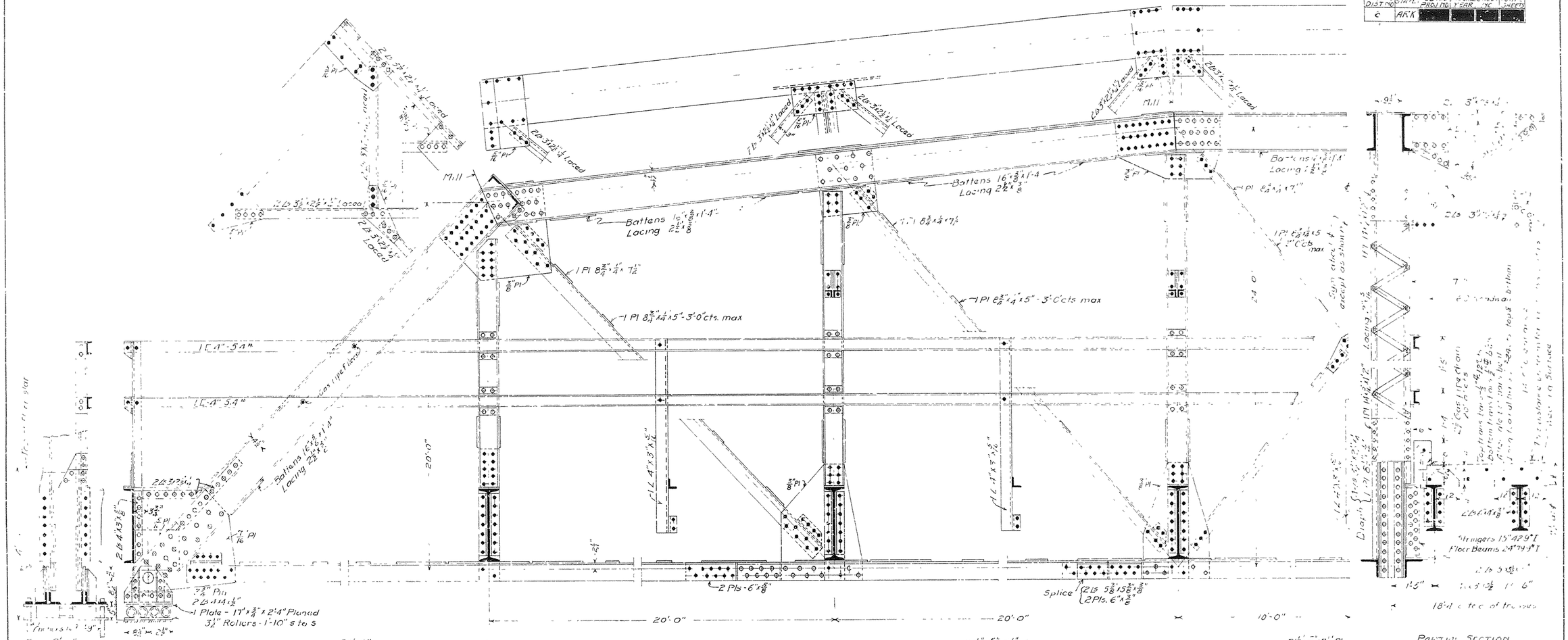
FED AID DIST NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	ARK				



Stringers

DL M = $\frac{1}{8}$ x 495 x 20² = 24,745'#
LL M = $\frac{1}{4}$ x 7900 x 20 = 39,500'#
Impact 30% = 11,850'#
Total = 76,095'#

$\frac{76,095 \times 12}{16,000}$ = 57.1 = Sec Mod. Reqd

Use 15" 42.9# I s - Sec Mod = 58.9

Floor Beams

DL M: $\frac{1}{8}$ x 2580 x 18.33² = 108,000'#
L.L M - 7.67 x 10800 = 82800'#
Impact 30% = 21,840'#
Total = 213,640'#

$\frac{213,640 \times 12}{16,000}$ = 161.7 = Sec Mod Reqd

Use 24" 79.9# I s Sec Mod = 173.9

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

Battens plates spaced not over 3'-0" c to c.
Concrete proportions - 1:2:4. If water comes directly on floor slab, increase thickness of slab 1" & use concrete proportions 1:2:3.

Estimated Quantities.

Structural Steel - Lbs	118910
Reinforcing Steel - Lbs	8220
Concrete - Cu Yds	555.8
Expansion plate & bolts - Lbs	250

Unit stresses: See Arkansas Highway Dept Specifications
Rivets ¾" diam. except in flanges of 7" channels
Open holes ⅛" A.I. 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.

STANDARD PLAN
140 FT. STEEL HIGHWAY BRIDGE
16 FT. ROADWAY ~ CONCRETE FLOOR

ARKANSAS HIGHWAY DEPARTMENT
LITTLE ROCK, ARK

DESIGNED	H.B.G.
DRAWN	D.C.E.
CHECKED	H.B.G.
REVISIONS	

APPROVED _____
CHAIRMAN, ARKANSAS STATE HIGHWAY COMMISSION

BY _____
STATE HIGHWAY ENGINEER.
MAY 1924 STATE STANDARD No.- F-514-A