FISCAL YEAR		SHEET No	TOTAL SHEETS

Pl. 3½"x¼"x1'-1" welded on each end.
2" 11/16"x1½" slotted hole for ⅝" Top Bolt spaced ab't 2'-0"
Pl. 4½"x⅝"
L 5"x3½"x⅜"x5'-3" L 3½"x3½"x⅜"x5" long
Strap 2"x¼"x1'-2"
Spaced 1'-0"
1" Φ Bolt
Spaced abt 9"
Extend slab into recess in Fixed End.
Expansion Device Concrete to Steel Span
℄ of Shoe
Expansion Device Between Steel Spans
℄ of Truss
Cut 10 L 15.3 thus
Sec. A-A
Sq'd Hex. Nut
¾" Pl. Washer (1"x1⅛" hole)
1½" Φ Anchor Bolt
1¾" Φ Rod
24 BI 70
Crown of Rdwy
Detail of Lateral Hanger
⅝" Pl.
1⅛" Gage for all Laterals
℄ of 10 CB 23
2 Ls 4"x3"x½"
Cut 20 BI 70 thus:
Drill 1"x2" Slotted Hole for ¾" Φ Reinfg Bars
Floor Beam Bracket
L 6"x4"x⅜" Comp. for Handrail
L 5"x3½"x⅜"
Fill 5"x⅜"
L 4"x4"x⅜"
Fill 10"x⅜"
1'-0½" Min. Clearance
Pin Pl., Gusset Pl. and Channel to be held together by shop welds as shown
End Stay Plates 18"x⅞"x1'-9½", Int. Stay Pls 18"x⅝"x1'-2"
Pl. 9"x½"
Bt. Pl. 18"x⅝" Mill
The open side of Top Chord to have: End Stay Pls 18"x⅞"x1'-9½" Int. Pls 18"x⅝"x1'-2"; Double Lacing 2½"x⅜"
Stay Pls for Diagonals End Pl. 9"x⅞"x10½" Int. Pl. 9"x⅝"x9"
7 U 9.8
Fill 6"x⅜"
2 Pls. 18"x⅜"
4 Pls. 9"x½"
2 Fil. 9"x½"
Total for one Splice
Typical Connection for Railing
10 CB 23
7 J 9.8

Notes

Rivets ¾"; open holes 13/16"
All holes in truss connections to be sub-punched ⅞" and reamed to size while truss is assembled; this applies to field as well as shop rivets.
Floor beam connections to be sub-punched ⅞" and reamed to size through a metal templet.
All field connections shall be riveted.
Shop paint: After being completely assembled and shop work finished, all pieces shall be given one coat of red lead and raw linseed oil before shipment.
Field paint: Apply two coats of different colors as specified by the engineer.
Floor slab: Concrete to be Class "S" One inch has been added for wear.
Intermediate floor beams shall be milled to exact length after framing angles have been riveted.
Shapes of equal or greater strength may be substituted for structural shapes shown; payment, however, will be made in accordance with sizes given on this plan.
This drawing shows general features of design only. Shop drawings shall be made in accordance with specifications, submitted and approved before fabrication is begun.
Specifications: Arkansas Standard Road & Bridge Specifications, adopted May 30th, 1925 & Revised.
All dimensions shown are center to center of bars.

CAST STEEL SHOE-FIXED END
Recessed Steel Nuts
3¼" Φ Pin
Holes for 1" Swedge Bolt
CAST STEEL ROCKER & MASONRY PLATE - EXPANSION END

21'-0½" c. to c. of Trusses
18'-0" Clear Roadway
Crown
3" Φ G.P. Drain, Center of each Panel
2 Ls 4"x3"x½" All Floor Beams 24 BI 70
18 at 6" = 9'-0"
10'-7½" D. to b. of Fs
SEC. AT CENTER OF PANEL

2-12 L 20.7, Cov. Pl. 18x⅜
2-12 L 20.7
2-12 L 20.7, Cov. Pl. 18x⅝
10 CB 23
8'-0"
10 CB 23
2 L 5"x3½"x⅝"
10 CB 23
10'-0"
10 CB 23
10 L 15.3
10 CB 23
D = -153.0 L = -76.3 I = -18.3 T = -247.6
D = -141.0 L = -70.4 I = -16.9 T = -238.3
D = -113.0 L = -56.7 I = -13.6 T = -183.3
D = -98.0 L = -48.8 I = -11.7 T = -158.5
D = 153.0 L = 76.3 I = 18.3 T = 247.6
D = 141.0 L = 70.5 I = 16.9 T = 228.4
D = 113.0 L = 56.4 I = 13.5 T = 182.9
D = 76.5 L = 38.2 I = 9.2 T = 123.9
2-12 L 20.7
2-12 L 30
9 of 10'-0" = 90'-0"
L0 L1 L2 L3 L4 L4 L3 L2 L1 L0
Reaction D = 69.0 L = 34.4 I = 8.3 T = 111.7
STRUCTURAL MAKE-UP
DESIGN STRESSES
L 4x3x5/16, Long leg vert.
L 4x3x5/16 Long leg vert.
L 5x3x5/16, Long leg vertical
℄ of Bridge
90'-0"
21'-0½"
Anchor Bolt Plan

40-¾" Φ x 27'-2½" S1
40-¾" Φ x 32'-2½" S2
26'-9½" S1
31'-9½" S2
47-1" Φ x 21'-2" S9
18'-11"
51 52 53 54 55 56 57 ℄ Symmetrical
10'-0" 10'-0" 10'-0" 10'-0" 5'-0"
38-¾" Φ x 24'-4" S5
38-¾" Φ x 26'-0½" S6
19-¾" Φ x 15'-8½" S7
2'-6" Gross Bars S8 Top of Slab. S9 in Bott. of Slab spaced as shown.
20-¾" Φ x 42'-6" S3
20-¾" Φ x 32'-6" S4
46-½" Φ x 10'-11" S8

Unit Stresses
Concrete 750 lbs. per sq. in.
Reinforcing Steel 16,000 " " " "
Structural Steel 16,000 " " " "
Live Load - H 13½ Loading
5,000 lbs.
14'-0" Total Axle Loads
20,000 lbs.
6'-0"

ESTIMATED QUANTITIES
Structural Steel 64,400 Lbs.
Cast Steel 1,670 Lbs.
Reinforcing Steel 10,760 "
Class "S" Concrete 48.4 Cu. Yds.
Note: Weight of Expansion Devices not Included in Structural Steel Tonnage.
Concrete and Reinforcing Steel are Estimated from Edge to Edge of End Floor Beams.

STANDARD PLAN
90'-0" LOW TRUSS SPAN
18'-0" CLEAR ROADWAY

N. B. Garver
BRIDGE ENGINEER

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: A Date: 9-8-30
Traced By: Date: 9-11-30
Checked By: Date:
Scale: ½ in. = 1 ft.

BRIDGE NO. [redacted] DRAWING NO. 2393