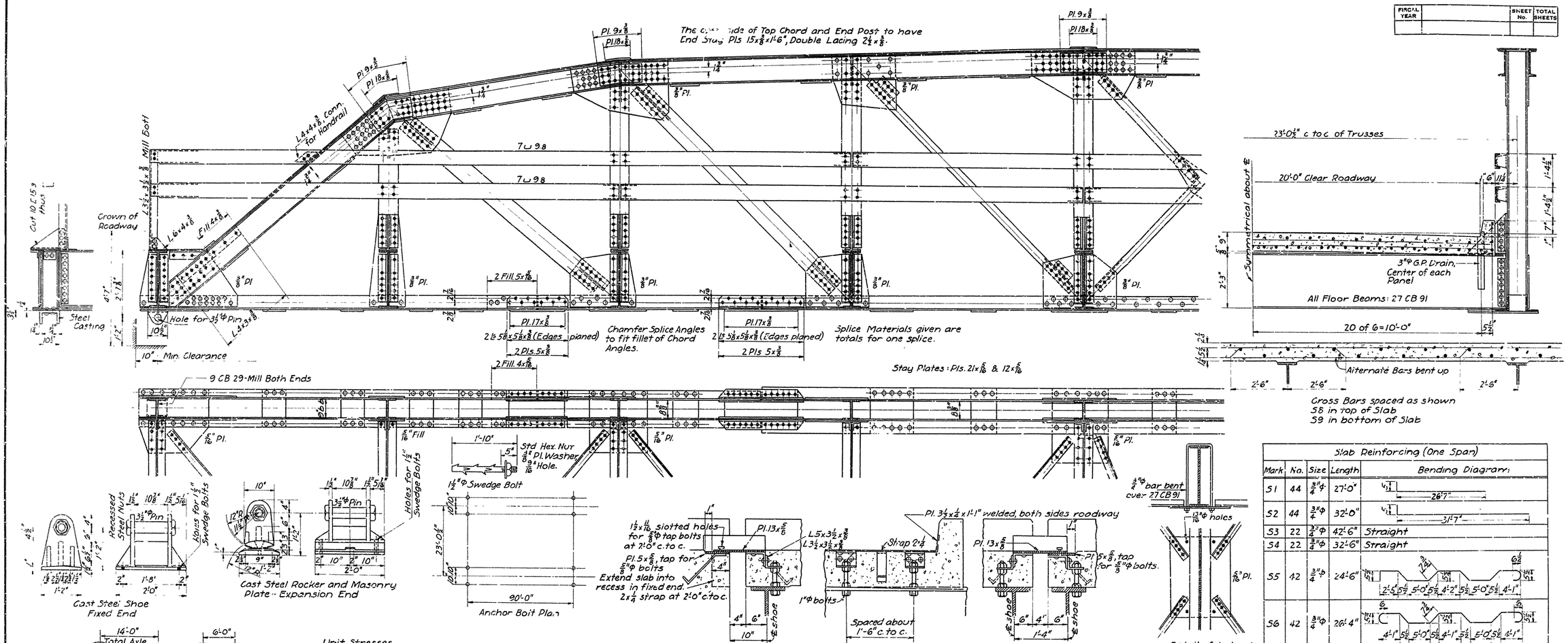
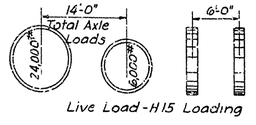
FISCAL YEAR		SHEET NO.	TOTAL SHEETS



Slab Reinforcing (One Span)				
Mark	No.	Size	Length	Bending Diagram
51	44	¾"Φ	27'-0"	26'-7"
52	44	¾"Φ	32'-0"	31'-7"
53	22	¾"Φ	42'-6"	Straight
54	22	¾"Φ	32'-6"	Straight
55	42	¾"Φ	24'-6"	2'-5½" 5'-0" 5½ 4'-2" 5½ 5'-0" 5½ 4'-1"
56	42	¾"Φ	26'-4"	4'-1" 5½ 5'-0" 5½ 4'-1" 5½ 5'-0" 5½ 4'-1"
57	21	¾"Φ	16'-0"	4'-1" 5½ 5'-0" 5½ 4'-1"
58	46	½"Φ	20'-9"	Straight
59	47	½"Φ	23'-5"	20'-11"



Live Load - H15 Loading

Unit Stresses

Concrete	= 750 lbs per sq.in.
Reinforcing Steel	= 16,000 lbs per sq.in.
Structural Steel	= 16,000 lbs per sq.in.

Notes

Rivets ⅞", open holes 1⅛"

All rivet holes in main connections of trusses to be sub-punched 3/16" and reamed to size while truss is assembled. This applies to field as well as shop rivets.

Floor beam connections to be sub-punched 3/16" and reamed to a metal template.

All field connections shall be riveted.

Shop paint: After being completely assembled and all shop work finished, all pieces shall be given one coat of red lead and raw linseed oil before shipment.

All field rivet heads and marred places of shop paint are to be spot painted with red lead and raw linseed oil before first field coat is applied.

Field paint: Apply two coats of paint as designated on layout sheet.

Floor slab concrete to be Class "S". One inch has been added for wear.

All floor beams to be milled to exact length after framing angles have been riveted.

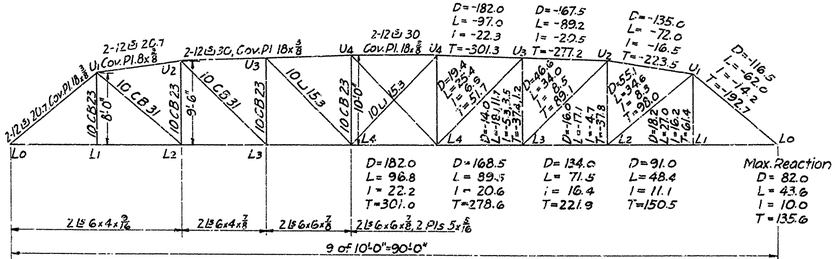
Shapes of equal or greater strength may be substituted for structural shapes shown; payment, however, will be made in accordance with sizes given on plans.

This drawing shows general features of design only.

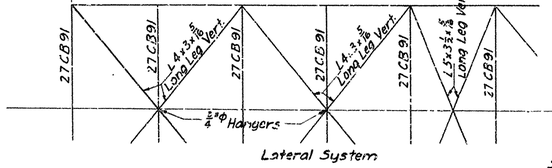
Shop drawings shall be made in compliance with specifications and be approved before fabrication is begun.

Specifications: Arkansas Standard Road and Bridge Specifications, adopted May 30th, 1925 and as revised.

All dimensions shown are center to center of bars.



Structural Make-Up Stress Diagram



Lateral System

Floor Beam Data

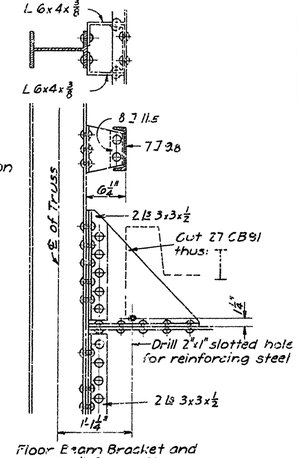
Dead Load Moment	94,000	ft. lbs.
Live Load Moment	168,000	" "
Impact 30%	50,400	" "
Total Moment	312,400	ft. lbs.

Required Section Modulus
312,400 ÷ 16,000 x 12 = 234 in.³
Section Modulus 27 CB 91 = 238 in³

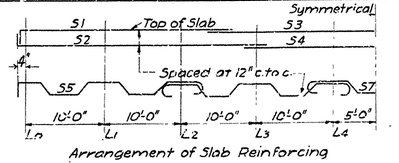
Estimated Quantities

Concrete, Class "S"	55.9	Cu. Yds.
Reinforcing Steel	11,450	Lbs.
Structural Steel	78,000	Lbs.

Structural Steel Tonnage does not include weight of Expansion Devices. Roadway Drains and Expansion Devices to be paid for as Structural Steel.



Floor Beam Bracket and Handrail Connection
Scale 1"=1'-0"



Arrangement of Slab Reinforcing

STANDARD PLAN
"SPECIAL CLEARANCE"
90'-0" LOW TRUSS SPAN
20'-0" CLEAR ROADWAY

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn by: A. Date: 4-6-31
Traced By: [illegible] Date: 4-28-31
Checked By: Date:

Scale: ½ in. = 1 ft.

BRIDGE ENGINEER

BRIDGE NO.

DRAWING NO. 2415.