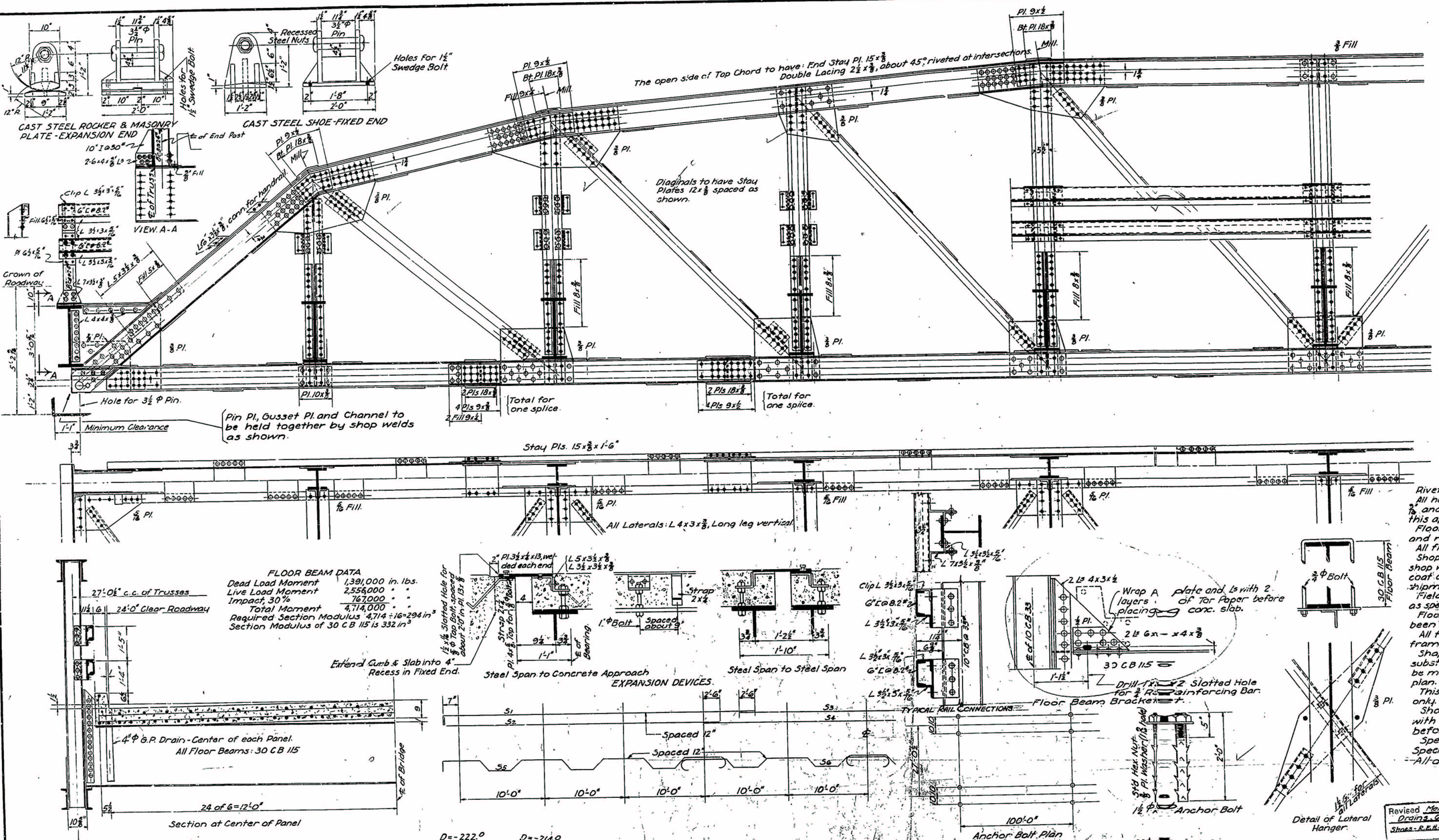
FISCAL YEAR	Job No.	SHEET No.	TOTAL SHEETS
1934	8173	3	19

		170-D	1933	3	19



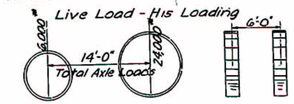
FLOOR BEAM DATA

Dead Load Moment	1,391,000 in. lbs.
Live Load Moment	2,556,000 " "
Impact, 30%	767,000 " "
Total Moment	4,714,000 " "

Required Section Modulus 4,714 ÷ 16 = 294 in³
Section Modulus of 30 C B 115 is 332 in³

Unit Stresses
Concrete = 750# per sq. in.
Reinforcing Steel = 16,000# per sq. in.
Structural Steel = 16,000# per sq. in.

Live Load - H15 Loading



ESTIMATED QUANTITIES

Class "S" Concrete	74.0	Cu. Yds.
Reinforcing Steel	14,750	Lbs.
Struct'l Steel (including drains)	108,300	"
Cast Steel	1,700	"

Expansion Device:-

Steel to Concrete	123.5	Lbs. each
Steel to Steel	1,475	" "

Notes

Rivets ¾". Open holes 13/16".
All holes in truss connections to be sub-punched 3/4" and reamed to size while truss is assembled; this applies to field as well as shop rivets.
Floor beam connections to be sub-punched 3/4" and reamed to 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.
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 shapes shown, but payment will be made in accordance with sizes shown on this plan.
This drawing shows general features of design only.
Shop drawings shall be made in compliance with specifications, submitted and approved before fabrication is begun.
Specifications:- Ark. Standard Road & Bridge Specifications, adopted May 30, 1925 & Revised.
All dimensions shown are center to center of bars.

Revised Members, Handrail, Drains, Quant. - H.E.B. - 8-10-33
Shoes - R.E.H. 5-25-33.

STANDARD PLAN
100'-0" LOW TRUSS SPAN
24'-0" CLEAR ROADWAY

~~ROUTE~~ ~~SEC.~~

ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Drawn By: A. Date: 4-10-30
Traced By: Date: 4-16-30
Checked By: Date:
Scale: ½ in. = 1 ft.

BRIDGE NO. [redacted]

DRAWING NO. 2449

BRIDGE ENGINEER