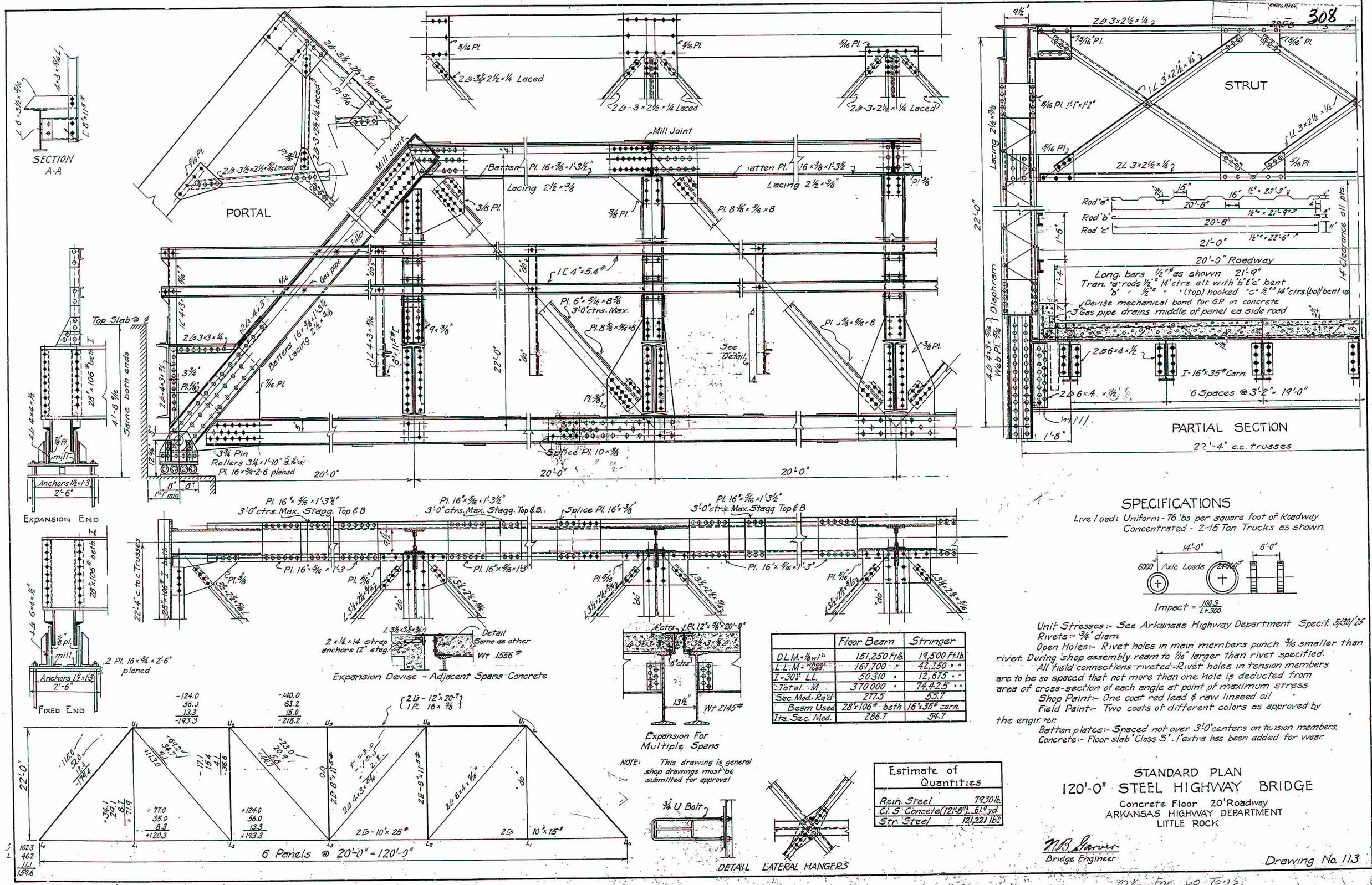

	Floor Beam	Stringer
D.L.M. = 1/8 wl²	151,250 Ft.lb.	19,500 Ft.lb.
L.L.M. = wheel/axle	167,700 "	42,250 " "
I-30# L.L.	50310 "	12,675 " "
Total M	370000 "	74,425 " "
Sec. Mod. Req'd	277.5	55.7
Beam Used	28"×106# beth	16"×35# carn.
Its. Sec. Mod.	286.7	54.7

Estimate of Quantities	
Rein. Steel	79301b.
Cl. S Concete (121'6")	61.9 yd.
Str. Steel	121,221 lb.

SPECIFICATIONS

Live load: Uniform - 76 lbs per square foot of Roadway
Concentrated - 2-15 Ton Trucks as shown.

$$\text{Impact} = \frac{100\,S}{L+300}$$

Unit Stresses:- See Arkansas Highway Department Specif. 5/30/25
Rivets:- ¾" diam.
Open Holes:- Rivet holes in main members punch ⅜ smaller than rivet. During shop assembly ream to 1/16" larger than rivet specified.
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 red lead & raw linseed oil
Field Paint:- Two coats of different colors as approved by the engineer.
Batten plates:- Spaced not over 3'-0" centers on tension members.
Concrete:- Floor slab 'Class S'. 1" extra has been added for wear.

STANDARD PLAN
120'-0" STEEL HIGHWAY BRIDGE

Concrete Floor 20' Roadway
ARKANSAS HIGHWAY DEPARTMENT
LITTLE ROCK

N. B. Garver
Bridge Engineer

Drawing No. 113

OK For 60 Tons