



FISCAL YEAR	JOB NO.	SHEET NO.	TOTAL SHEETS

HALF CENTER SECTION
 Stringer Data
 D.L. Mom. = 9309 × 20.625 × 1.5 = 287,997
 L.L. " = 9778 × 20.625 × 3 = 605,012
 Impact Mom. @ 30% = 181,504
 Total Mom. = 1,074,515
 Sec. Mod. Req. = 1,074,515 ÷ 1000 = 59,695
 " " Beth. 15" @ 35" = 597

Floor Beam Data
 D.L. Mom. = 55,049 × 22.35 × 1.5 = 1,843,866
 L.L. " = [24,187 × 10.42 - 12,964 × 6] × 12 = 2,050,928
 Impact Mom. @ 30% = 627,278
 Total Mom. = 4,522,072
 Sec. Mod. Req. = 4,522,072 ÷ 1000 = 25,345
 " " Beth. 18" @ 97" = 265.1

Estimated Quantities
 Structural Steel (not incl. Exp. Devices) 175,130 Lbs.
 Reinforcing (Edge to Edge End Fl. Bms.) 10,427 Lbs.
 Class 5 Conc. (" " ") 8407CY

STANDARD PLAN
165'-0" STEEL SPAN
 20'-0" CLEAR ROADWAY
 ROUTE SEC.

ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.

Drawn By: NOE Date: 1-10-29
 Traced By: E.A.W. Date: 2-1-29
 Checked By: _____ Date: _____

Scale: 3/4 in. = 1 ft.
 BRIDGE NO. _____ DRAWING NO. 1088

UNIT STRESSES

Concrete C.I.'S	Structural Steel	Reinforcing
18000	18000	18000
18000	18000	18000
18000	18000	18000

Member	D	L	T
1	190.285	79.685	19.027
2	171.560	70.282	15.813
3	171.560	70.282	15.813
4	171.560	70.282	15.813
5	171.560	70.282	15.813
6	171.560	70.282	15.813
7	171.560	70.282	15.813
8	171.560	70.282	15.813
9	171.560	70.282	15.813
10	171.560	70.282	15.813
11	171.560	70.282	15.813
12	171.560	70.282	15.813
13	171.560	70.282	15.813
14	171.560	70.282	15.813
15	171.560	70.282	15.813
16	171.560	70.282	15.813
17	171.560	70.282	15.813
18	171.560	70.282	15.813
19	171.560	70.282	15.813
20	171.560	70.282	15.813
21	171.560	70.282	15.813
22	171.560	70.282	15.813
23	171.560	70.282	15.813
24	171.560	70.282	15.813
25	171.560	70.282	15.813
26	171.560	70.282	15.813
27	171.560	70.282	15.813
28	171.560	70.282	15.813
29	171.560	70.282	15.813
30	171.560	70.282	15.813
31	171.560	70.282	15.813
32	171.560	70.282	15.813
33	171.560	70.282	15.813
34	171.560	70.282	15.813
35	171.560	70.282	15.813
36	171.560	70.282	15.813
37	171.560	70.282	15.813
38	171.560	70.282	15.813
39	171.560	70.282	15.813
40	171.560	70.282	15.813
41	171.560	70.282	15.813
42	171.560	70.282	15.813
43	171.560	70.282	15.813
44	171.560	70.282	15.813
45	171.560	70.282	15.813
46	171.560	70.282	15.813
47	171.560	70.282	15.813
48	171.560	70.282	15.813
49	171.560	70.282	15.813
50	171.560	70.282	15.813

SPECIFICATIONS

Members shall be Match-Marked and a suitable diagram furnished for erection.
 All field connections to be riveted.
 Rivet holes in tension members so spaced that only one hole is deducted from each angle at point of Max. Stress.
 Deduct 2 Web holes and 1 Flange hole from each Channel at point of Max. Str.
 Shop Paint: One Coat of Red Lead and Raw Linseed Oil.
 Field Paint: Two Coats of different colors as approved by the Engineer.
 Guller plates shall be spaced not over 30" c/c. on tension members.
 Generate Floor Slab (2" S.) extra 1" added for Wear.
 Stringers & Floor Beams to be milled axial length.
 Members of equal or greater strength may be used in place of Members shown here but payment in accordance with sizes shown.
 This Drawing is general only. Shop Drawings must be made, submitted and approved before fabrication is begun.
 Specifications: Ark. State Highway Dept. Specifications adopted May 30th, 1928 and revised.

UNIT STRESSES
 Concrete C.I.'S 18000 lbs. per Sq. Ft.
 Structural Steel 18000 " " "
 Reinforcing 18000 " " "

Rivets to be 3/4" in Diameter
 Rivet Holes: Sub-punch both shop & field holes in main truss connections 3/16" smaller than rivet specified and 1/16" larger than rivet specified during shop assembly.

BRIDGE ENGINEER