

PLAN AT ABUTMENTS BEARING ASSEMBLY DETAILS PLAN AT PIER

	0.4 Span 1	Pier	0.6 Span 2
I_s (in ⁴)	23141.8	43606.3	23141.8
S_s (in ³)	1284	1693.4	1284
DL (ft-k)	106.5	112.6	106.5
M _{DL} (ft-k)	7.29	784.74	807
F_s DL (ksi)	7.29	19.08	7.54
I_c (in ⁴)	48152	✓	48152
S_c (in ³)	1652	✓	1652
S_{DL} (ft-k)	0.553	0.553	0.553
M _{DL} (ft-k)	4.71	80.6	4.85
F_s DL (ksi)	9.42	5.63	3.59
I_c (in ⁴)	70243.9	✓	70243.9
S_c (in ³)	1805	✓	1805
M _{LL} (ft-k)	1028.5	854.6	1038
M _{IMP} (ft-k)	219.5	182	221
M _{TOTAL} (ft-k)	124.8	1036.6	125.9
F_s LL (ksi)	8.30	7.35	8.37
F_s TOTAL (ksi)	19.00	26.10	19.44
VR	65.7	✓	65.7

Note A
1 1/2" Holes - 1" deep in top
R for pintles. Thread or
press fit pintles into bottom R

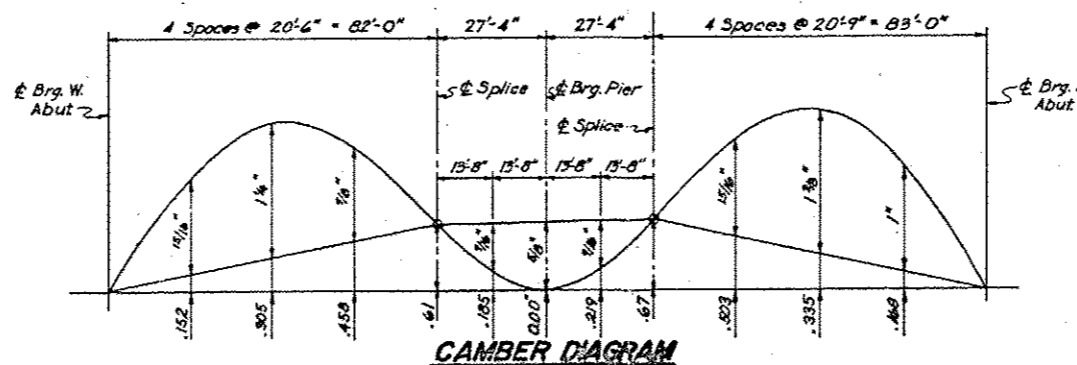
Note B
1 1/2" Holes for 1" Anchor Bolts.
3/16" x 2 1/2" x 2 1/2" R washers
under mt.

I_s and S_s are the moment of inertia and section modulus of the steel section. I_c and S_c are the moment of inertia and the section modulus of the composite section used in computing F_s .
VR is the maximum LL+impact shear range in a sheet

	Abutment	Pier
R _{DL} (k)	63.0	226.1
R _{LL} (k)	51.7	85.1
Imp. (k)	11.0	18.1
R _{TOTAL} (k)	125.7	329.3

NOTES ON SETTING ANCHOR BOLTS AT EXPANSION BEARINGS

- D^* (Side of brg. away from fixed brg.)
 $D^* = \frac{1}{8}$ " per each 100' of expansion for every 15° fall below the normal temperature of 50°F.
 D^{**} (Side of brg. toward fixed brg.)
 $D^{**} = \frac{1}{8}$ " per 100' of expansion for every 15° rise above the normal temp. of 50°F.
- After beams have been erected and dimensions D^* and D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



TOP OF WEB ELEVATIONS *

	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8	Girder 9	Girder 10	Girder 11	Girder 12
Br. W. Abut.	731.954	732.116	732.237	732.357	732.477	732.598	732.594	732.444	732.555	732.205	732.075	731.909
Splice 1	731.586	731.748	731.858	731.987	732.107	732.227	732.231	732.091	731.963	731.833	731.703	731.531
Pier	731.405	731.567	731.687	731.806	731.926	732.046	732.042	731.915	731.782	731.652	731.522	731.350
Splice 2	731.307	731.469	731.589	731.708	731.828	731.948	731.942	731.812	731.682	731.554	731.424	731.252
Br. E. Abut.	730.842	731.004	731.124	731.244	731.364	731.485	731.479	731.550	731.219	731.089	731.959	730.787

* For Fabrication Only

DESIGNED	M.V.M.
CHECKED	H.M.W.
DRAWN	S.L.M.
CHECKED	H.M.W.

BEARING DETAILS

F.A. RTE. 407 SEC. 1-5HB3
ADAMS COUNTY
STATION 262+30.23

FOR INFORMATION ONLY