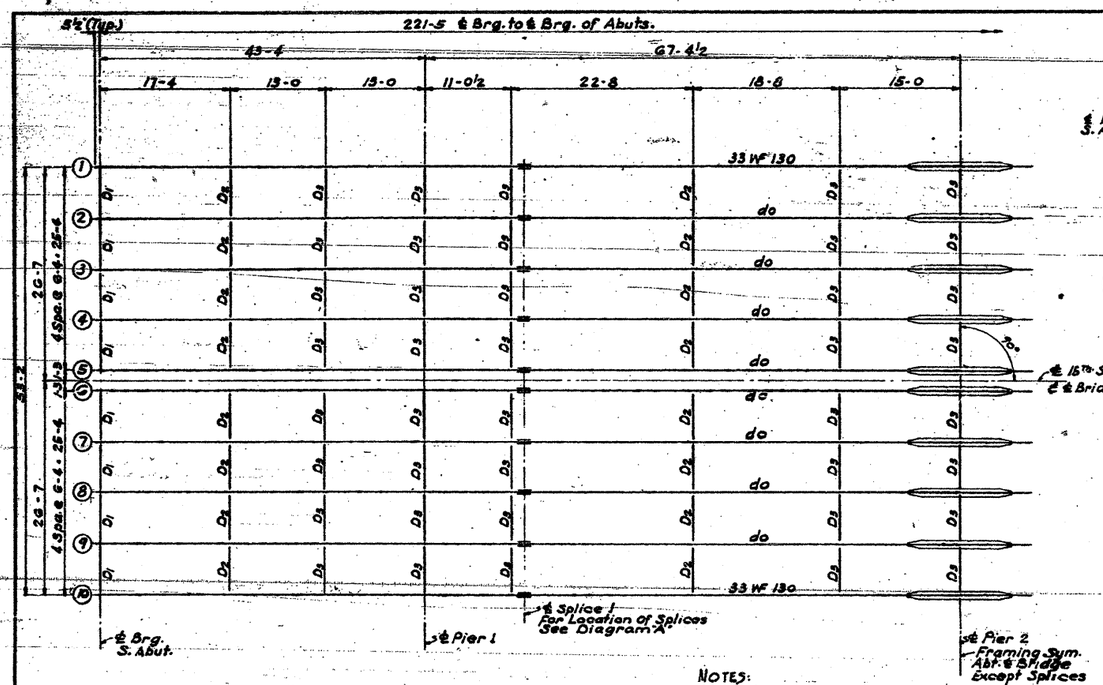
FOR INFORMATION ONLY

FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.RT.64	82-1HB-1	ST.CLAIR	42	20
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



HALF PLAN

Note
Diaphragm D_1 = 12 WF 40
Diaphragm D_2 & D_3 = 16 WF 36

NOTES:
1" ϕ x 12" Anchor Bolts to be grouted into drilled holes after beams are in place, or bolts at fixed pier may be built into the masonry.
*D = 1/8 / 100 ft. of exp. for every 15° below the normal temp. of 50°F.
**D = 1/8 / 100 ft. of exp. for every 15° above the normal temp. of 50°F.

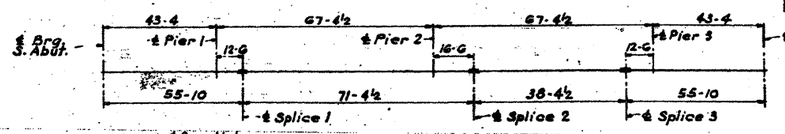
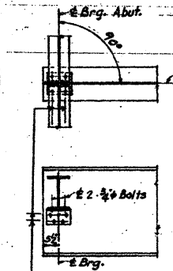
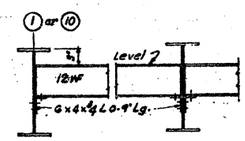


DIAGRAM 'A'





DIAPHRAGM D_1

Angles may be attached in the shop with ¾" high strength bolts or ¼" C.F.W.

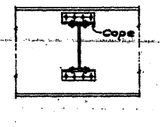
ELEVATION TOP OF BEAMS

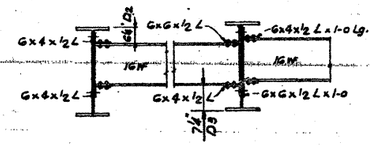
Beam No.	℄ Brg. S. Abut.	℄ Pier 1	℄ Splice 1	℄ Pier 2	℄ Splice 2	℄ Splice 3	℄ Pier 3	℄ Brg. N. Abut.
1	415.03	415.60	415.77	416.00	416.07	415.79	415.68	415.29
2	415.16	415.73	415.90	416.13	416.20	415.92	415.81	415.42
3	415.29	415.86	416.03	416.27	416.33	416.05	415.94	415.55
4	415.40	415.98	416.14	416.38	416.45	416.17	416.06	415.67
5	415.45	416.02	416.19	416.43	416.50	416.21	416.11	415.72
6	415.45	416.03	416.19	416.43	416.50	416.21	416.11	415.72
7	415.40	415.98	416.14	416.38	416.45	416.17	416.06	415.67
8	415.29	415.86	416.03	416.27	416.33	416.05	415.94	415.55
9	415.16	415.73	415.90	416.13	416.20	415.92	415.81	415.42
10	415.03	415.60	415.77	416.00	416.07	415.79	415.68	415.29

Note
Elevations as shown are to top of top flange of Bms.

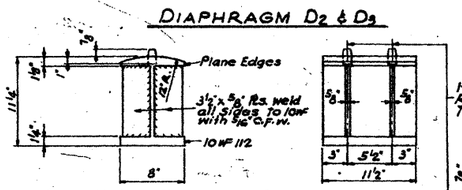
SHIM ℛ. THICKNESS 't'

Location \ Bm. No.	1	2	3	4	5	6	7	8	9	10
℄ Brg. S. Abut.	0	0	0	0	5/8"	5/8"	0	0	0	0
℄ Pier 1	0	0	0	0	5/8"	5/8"	0	0	0	0
℄ Pier 2	0	0	0	0	5/8"	5/8"	0	0	0	0
℄ Pier 3	0	0	0	0	5/8"	5/8"	0	0	0	0
℄ Brg. N. Abut.	0	0	0	0	5/8"	5/8"	0	0	0	0

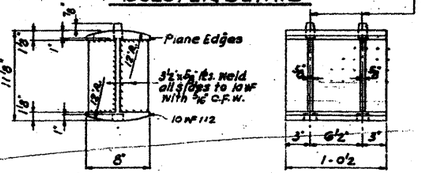


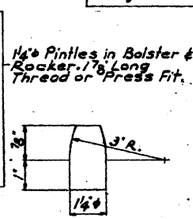


DIAPHRAGM D_2 & D_3

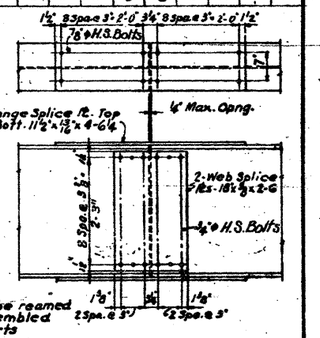


BOLSTER DETAIL



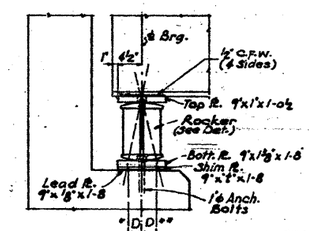


PINTLE DETAIL

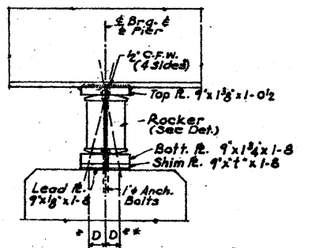


Note
All Boltholes to be reamed with all parts assembled to grade & all parts match marked.

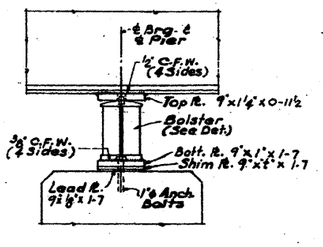
SPLICE DETAILS



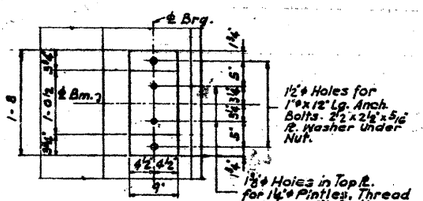
EXP. BRG. AT ABUTMENT



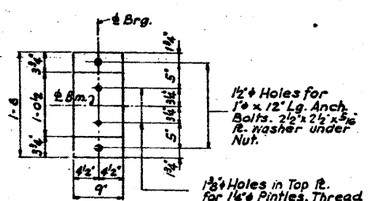
EXP. BRG. AT PIERS 1 & 3



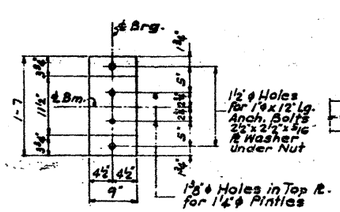
FIXED BRG. AT PIER 2



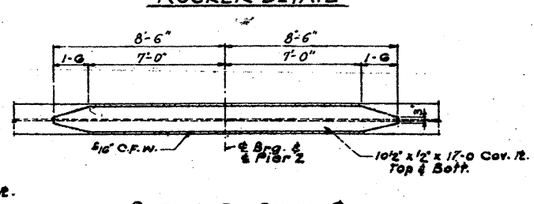
PLAN



PLAN



PLAN



DETAIL OF COVER Pl.

Designed By S.K.
Drawn By R.N.
Checked By T.M.S.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STEEL LAYOUT AND DETAILS
15TH ST.
OVER F.A.I.Rt.64
STATION 75+85.50
F.A.I. Rt.64 ST. CLAIR CO. SECTION 82-1HB-1

H.W. LOCHNER, INC.
CONSULTING ENGINEERS
CHICAGO, ILLINOIS

SHEET 4 OF 11

FILE NAME = $FILEA$	USER NAME = pmsorno	DESIGNED		REVISED	-
		DRAWN	PP	REVISED	-
	PLOT SCALE = 20.000 ' / IN.	CHECKED	AB	REVISED	-
	PLOT DATE = 3/12/2010	DATE	03/19/10	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 15TH STREET BRIDGE AND RETAINING WALL 'D' PLANS

SCALE: NONE | SHEET NO. 4 OF 22 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-1-2HB	ST. CLAIR	345	256
		CONTRACT NO. 76C49		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		