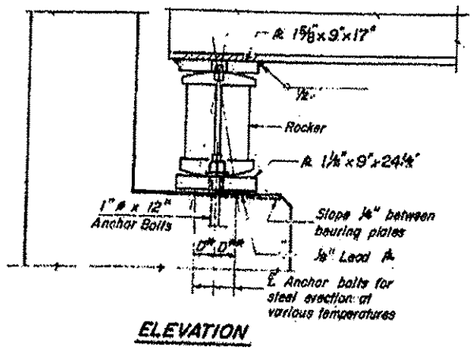
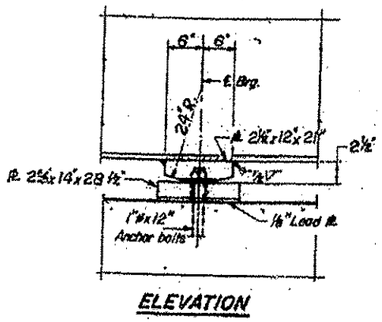
LOCATION 2 S.N. 094-0028 INFORMATION ONLY

DEPARTMENT OF TRANSPORTATION



ELEVATION



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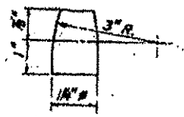
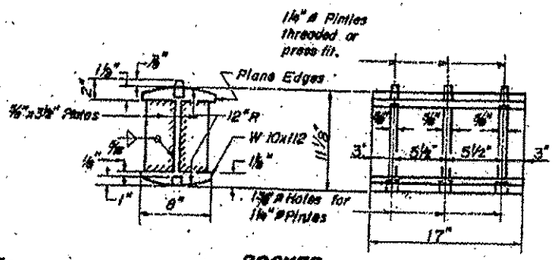
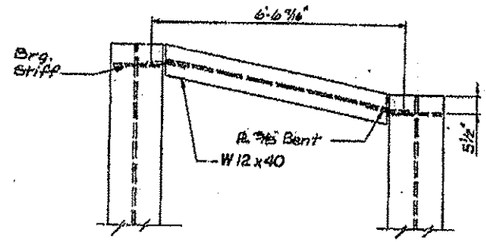
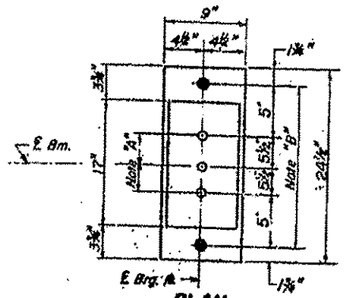


PINTLE

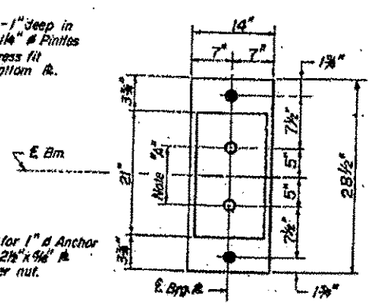


ROCKER





Note "A"
1⅜" ø Holes - 1" deep in top ℄ for 1⅛" ø Pintles
Thread or press fit pintles in bottom ℄.



Note "B"
1½" ø Holes for 1" ø Anchor Bolts - 2⅝"x2⅝"x⅝" ℄ Washers under nut.

PLAN AT ABUTMENT

PLAN AT PIER

NOTES FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

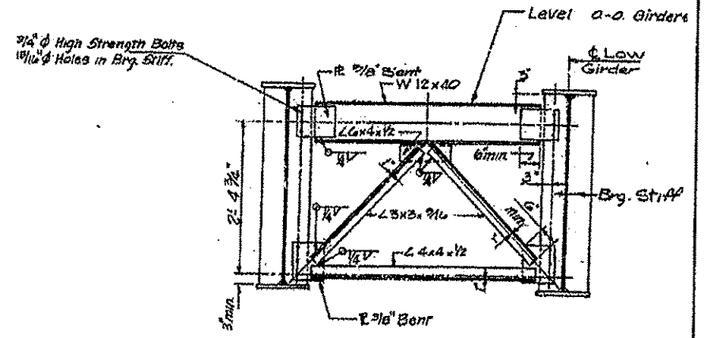
a.) D" (Side of brg. away from fixed brg.)
D" = ½" per each 100° of expansion for every 15° fall below the normal temp. of 30° F.
D"' (Side of brg. toward fixed brg.)
D"' = ½" per each 100° of expansion for every 15° rise above the normal temp. of 50° F.

b.) After beams have been erected and dimensions D" & D"' determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

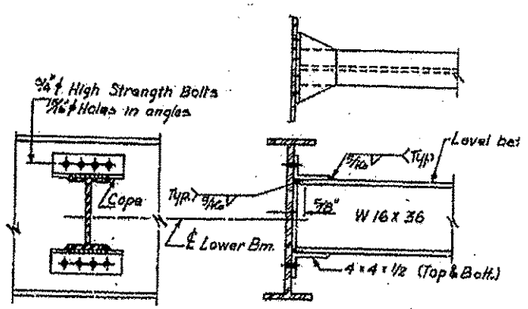
INTERIOR GIRDER MOMENT TABLE			
	0.4 Sp.1	Pier	0.6 Sp.2
Is (in.⁴)	19205.	84608.	20772.
Ic (in.⁴)	51850.	—	57583.
Ss (in.³)	937.6	2100.3	1084.8
Sc (in.³)	1273.4	—	1449.4
℄ (K/ι)	0.960	0.960	0.960
M℄ (K)	522.2	-1628.5	669.0
f_b℄ (ksi)	6.68	9.30	7.40
v℄ (K/ι)	0.575	0.676	0.575
M_b℄ (K)	392.0	-777.4	479.9
M_b (K)	826.2	-807.3	875.8
M_Emp (K)	182.8	-176.3	188.7
M_Total (K)	1401.0	-1761.0	1544.4
f_b (ksi)	13.52 ⓑ	10.02	12.94 ⓑ
f_b Total (ksi)	20.20	19.96	20.34
VR (K)	57.2	—	56.2

INTERIOR GIRDER REACTION TABLE			
	S. Abut.	Pier	N. Abut.
RE (K)	53.6	205.8	59.6
R_L (K)	46.8	75.8	47.1
I_mp. (K)	10.3	16.6	10.2
R Total (K)	110.7	298.2	116.9

Is and Ss are the moment of inertia and section modulus of the steel section.
Ic and Sc are the moment of inertia and section modulus of the composite section used in computing f_b.
VR is the maximum ℄ + Impact shear range in span.
ⓑ Stresses for superimposed dead load are based on composite section utilizing n = 30. Values of Ic and Sc are 39767. In.⁴ and 1772.3 In.³ respectively for Span 1, and 41052. In.⁴ and 1953.5 In.³ respectively for Span 2.



DIAPHRAGM - D1
16 REQUIRED



DIAPHRAGM D2
72 REQUIRED

Note: Hardened washers shall be required over 1 9/16" ø holes in angles and brg. stiff.

FILE NAME = March 2013 Metalize.dgn	USER NAME = DEFAULT	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN -	REVISED -	
=MODELNAME=	PLOT SCALE = 0.0210 '/ in.	CHECKED -	REVISED -	
	PLOT DATE = 12/11/2012	DATE -	REVISED -	

LOCATION 2 BEARING & DIAHRAGMS INFORMATION ONLY

SCALE: ____ SHEET ___ OF ___ SHEETS STA. ____ TO STA. ____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
var	04 Bridge Metalizing 2013	Various	20	6
		CONTRACT NO. 68825		
	ILLINOIS FED. AID PROJECT			