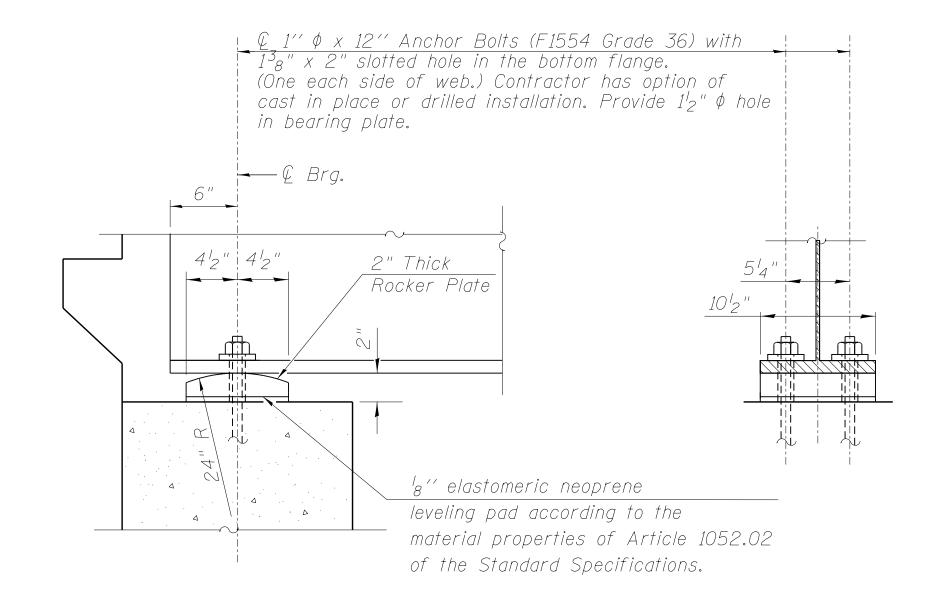
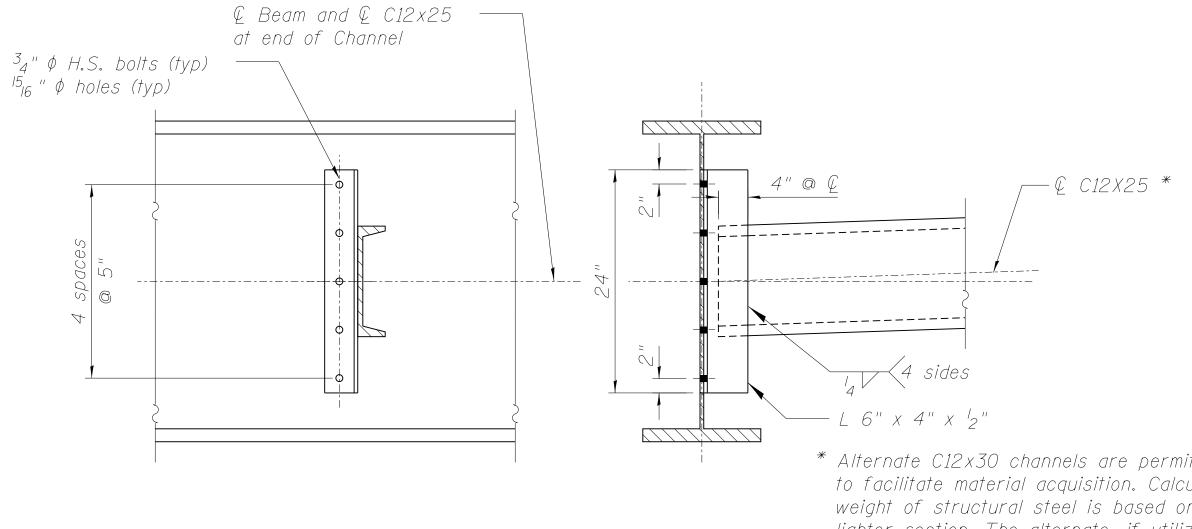


SECTION A-A



SECTION AT ABUTMENT

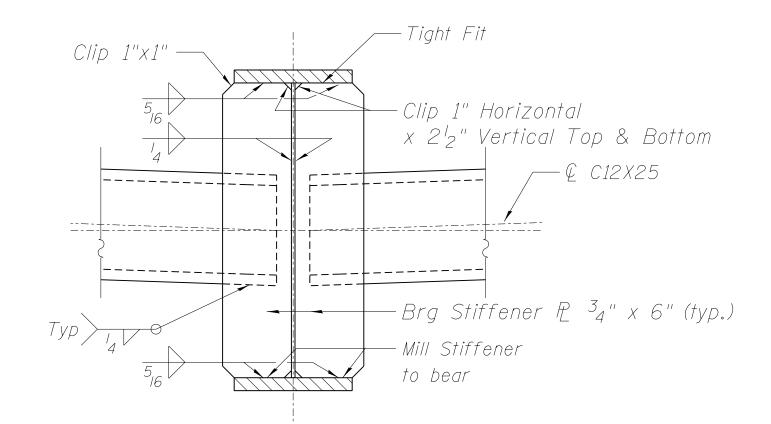


DIAPHRAGM D

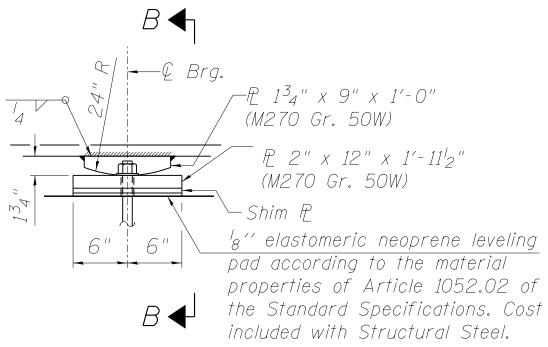
45 Required

Two hardened washers required for each set of oversized holes.

* Alternate C12x30 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized shall be provided at no extra cost to the Department.



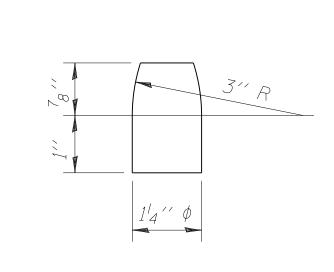
SECTION AT PIER DIAPHRAGM D1 10 Required



ELEVATION AT PIER

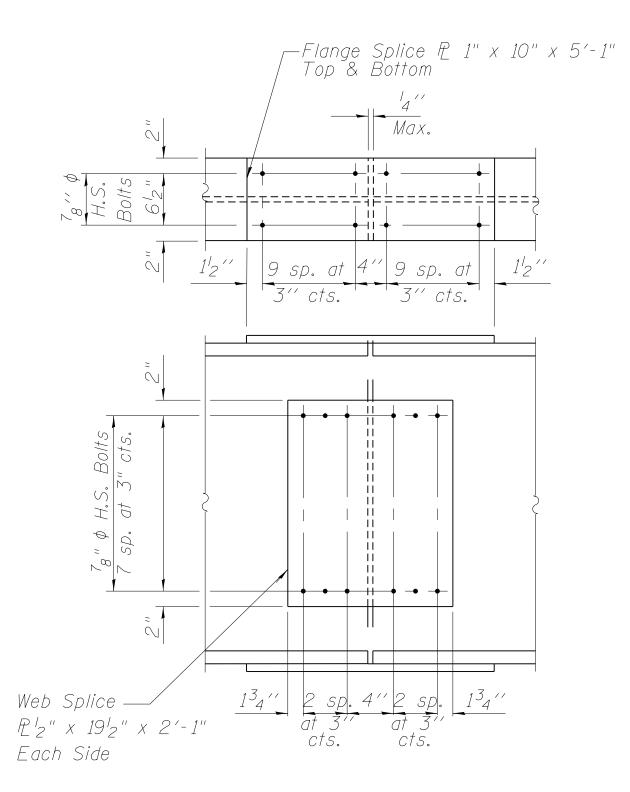
Q 1'4" \phi x 15" |Anchor Bolts 1'-11'2" - ASTM F1554 Grade 36 with 2^{3}_{4} " x 2^{3}_{4} " x 5_{16} " P_{1} washer under nut $1^{3}4''$ Holes in bottom P. SECTION B-B

FIXED BEARING



DETAIL OF PINTLE

ITEM	UNIT	TOTAL
Anchor Bolts, 1"	EACH	24
Anchor Bolts, 14"	EACH	24
Stud Shear Connectors	FACH	4.824



DETAIL OF SPLICE

Notes:

Anchor bolts shall be ASTM F1554 (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A 307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy-36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addition to all other plates of shims and placed as shown on bearing details.

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`	ENGINEERING LTD.
-	225 W. OHIO ST., FOURTH FL.
11	CHICAGO, IL 60654 W(312)467-0123 F(312)467-0220 www.terraengineering.com

	USER NAME = cvm	DESIGNED - OY	REVISED -	
- •	FILE NAME = D468757-017-steel_details.dgn	CHECKED - DA	REVISED -	STATE OF ILLINOIS
	PLOT SCALE = 0:1.00000 ':" / in.	DRAWN - CM	REVISED -	DEPARTMENT OF TRANSPORTATION
0	PLOT DATE = 5/7/2013	CHECKED - JB	REVISED -	

 1^3_8 " ϕ Holes-1" deep in top \mathbb{R}

for $1_4'' \phi$ pintles.

bottom P.

Thread or press fit in