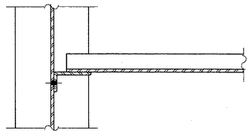
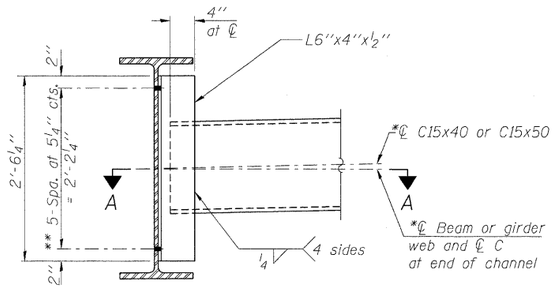


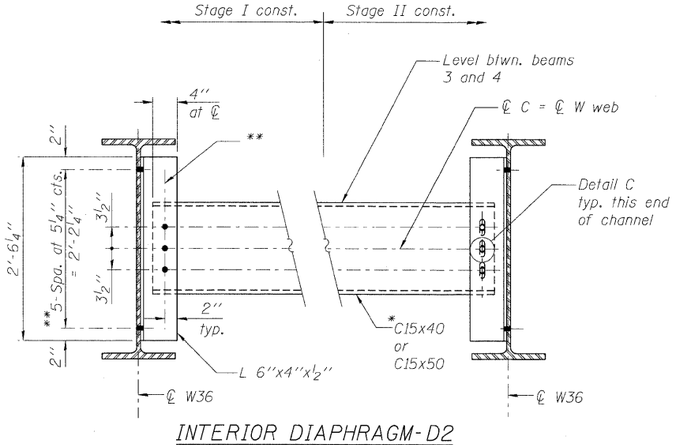
SECTION A-A



INTERIOR DIAPHRAGM- D1

(51 Required)

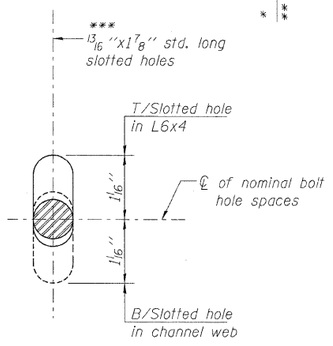
Notes:
Two hardened washers required for each set of oversized holes.
*Alternate channels are permitted to facilitate material acquisition.
Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
**¾" ϕ HS bolts, 15/16" ϕ holes
Diaphragm channels, angles and connection plates may conform to the requirements of AASHTO M270 Grade 36 or Grade 50.



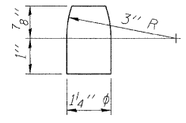
INTERIOR DIAPHRAGM-D2

(9 Required)

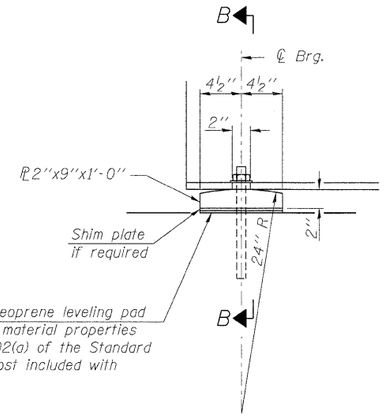
Note:
Two hardened washers required for each set of oversized holes.
Two ℄ 5/16"x3"x3" washers required for each set of slotted holes.
*Alternate channels are permitted to facilitate material acquisition.
Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
**¾" ϕ HS bolts, 15/16" ϕ holes
*** Bolts in slots shall be finger tight until Stage II concrete deck pour is complete. Install bolts near top of lower slot at fit-up.
Diaphragm channels, angles and connection plates may conform to the requirements of AASHTO M270 Grade 36 or Grade 50.



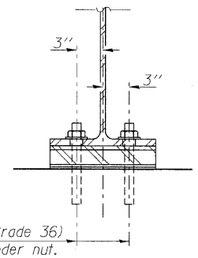
DETAIL C



PINTLE

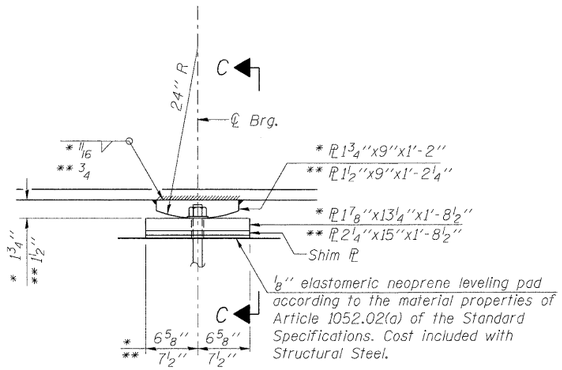


ELEVATION AT ABUTMENT

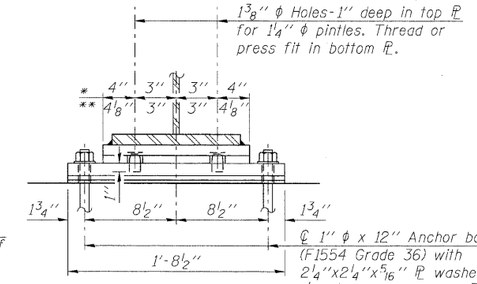


SECTION B-B

FIXED BEARING AT ABUTMENTS



ELEVATION AT PIER



SECTION C-C

FIXED BEARINGS AT PIERS

Note: * Piers 1 & 3
** Pier 2

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	60

NOTES

1. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
2. Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
3. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
4. The structural steel plates and pintles of the bearings shall conform to the requirements of AASHTO M270 Grade 50.
5. Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown in bearing details.

I:\5815-Phase II\IL-26\IL-26\Structure\dgn\IL26.dgn 0710096-64D17-018-SD2.dgn

LOCHNER
H.W. LOCHNER, INC.
CONSULTING ENGINEERS AND PLANNERS
20 N. WACKER DRIVE, SUITE 1200
CHICAGO, ILLINOIS 60606

USER NAME =	DESIGNED - CMM	REVISED -	
FILE NAME = 0710096-64D17-018-SD2.dgn	CHECKED - GWS	REVISED -	
PLOT SCALE =	DRAWN - EF	REVISED -	
PLOT DATE =	CHECKED - GWS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS II
STRUCTURE 071-0096
SHEET NO. 18 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	4VBR-1	OGLE	73	62
		CONTRACT NO. 64D17		
	ILLINOIS FED. AID PROJECT			