

FILE NAME: H:\Resources\Bases_Sheets\Diaphragms\English\Current\pci_HN54-49.dgn

USER: earlw.downey
DATE PLOTTED: 25-APR-2018

E-SHEET NAME:

MicroStation v8.11.7.180

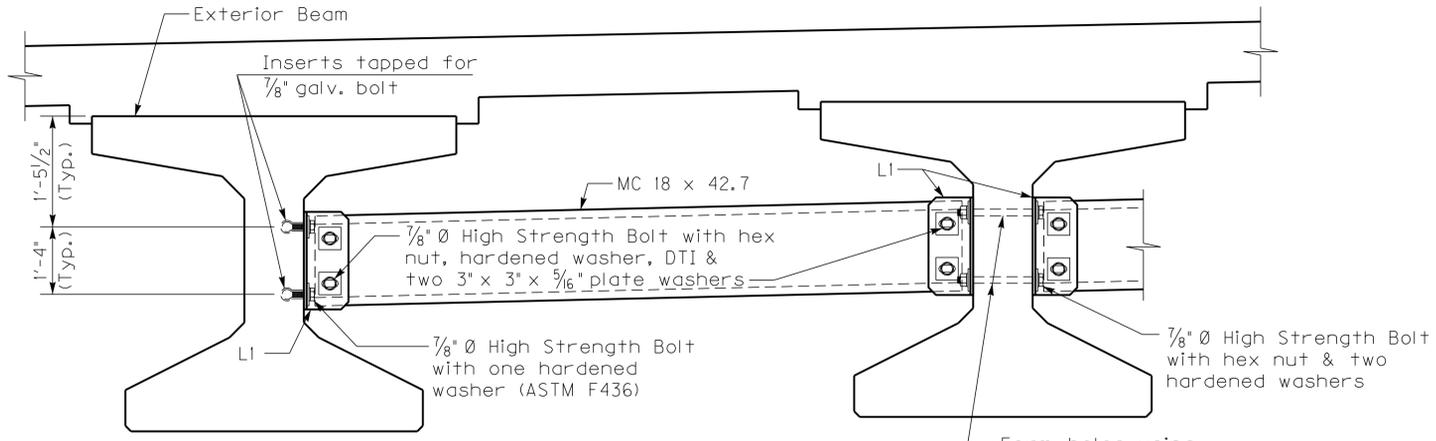
Diaphragm Notes

CONNECTIONS: Ensure all bolted connections are ASTM A325, 7/8 inch diameter high strength bolts, nuts, and washers, mechanically zinc coated in accordance with AASHTO M298, for Class 50. Install all high strength bolted connections using 'direct tension indicators' (DTI's) in accordance with the Standard Specifications and ASTM F959. Ensure all DTI's are mechanically zinc coated. Show installation details of the DTI's on the shop plans. Place DTI's under the bolt head. ASTM A449 bolts may be used in lieu of A325 for the bolts carried through the girder webs only.

STRUCTURAL STEEL: Ensure plates, angles, and channels conform to ASTM A36 or A572 and galvanized after fabrication.

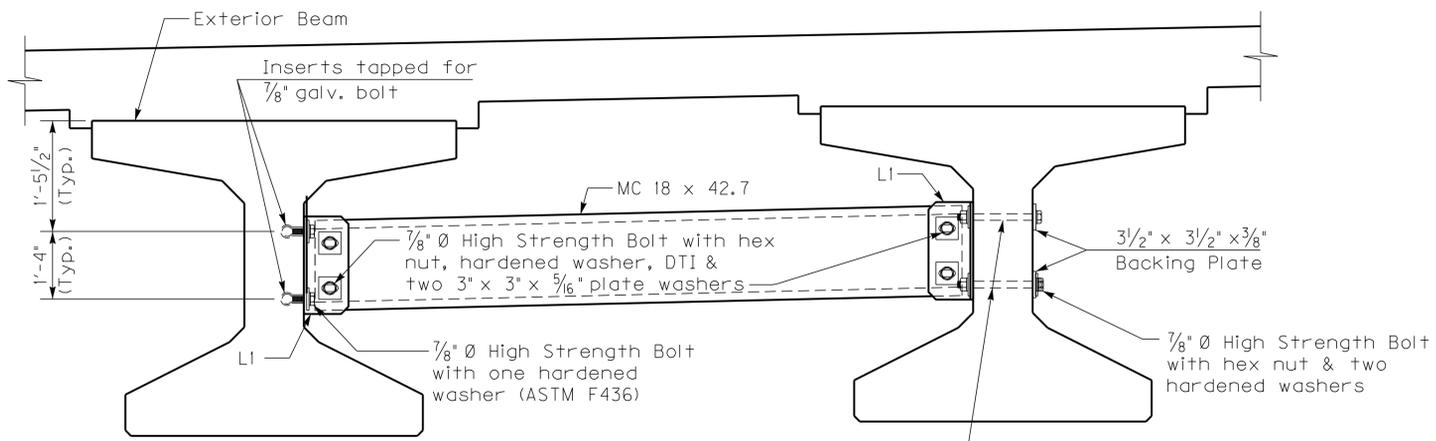
SHOP DRAWINGS: Show the location of all inserts and holes on the precast beam shop drawings. Submit shop drawings for the steel diaphragms to the Division of Structural Design for approval.

DIAPHRAGMS: Erect the diaphragms the same day that the precast beams are placed on the substructure. Include the cost of all materials and labor required to fabricate and erect the diaphragms in the bid for Precast Beams.



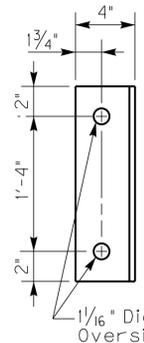
INTERMEDIATE DIAPHRAGM
~Typical for 0° Skew~

Form holes using 1" I.D. plastic pipe or equivalent.

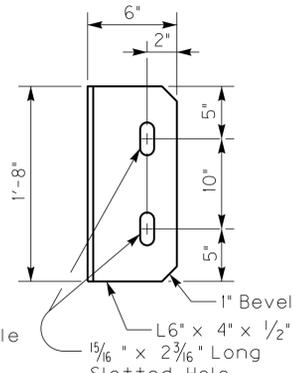


INTERMEDIATE DIAPHRAGM
~Typical for Skewed~

Form holes using 1" I.D. plastic pipe or equivalent.

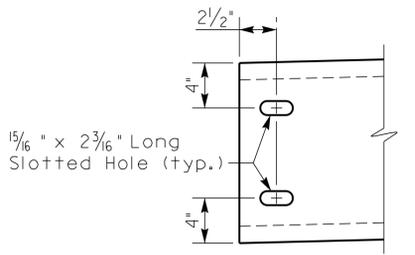


Beam Face

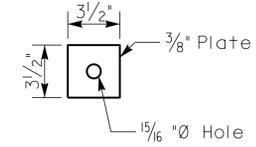


Diaphragm Face

CLIP ANGLE - L1



CHANNEL END



BACKING PLATE
Skewed Spans, Only

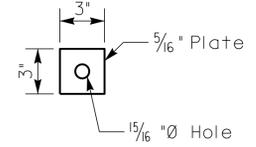
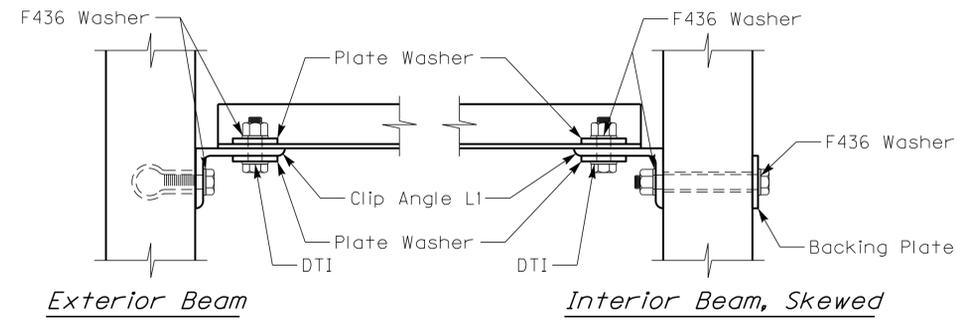
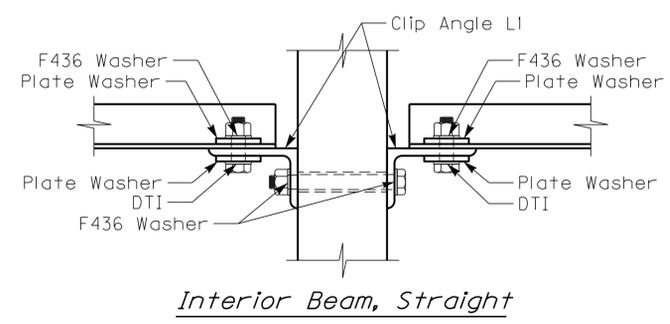


PLATE WASHER



Exterior Beam

Interior Beam, Skewed



Interior Beam, Straight

CONNECTION DETAILS

REVISION		DATE
DATE:	CHECKED BY	
DESIGNED BY:		
DETAILED BY:		
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY		
ROUTE	CROSSING	

ITEM NUMBER

PREPARED BY
Division of Structural Design
SHEET NO.
DRAWING NO.