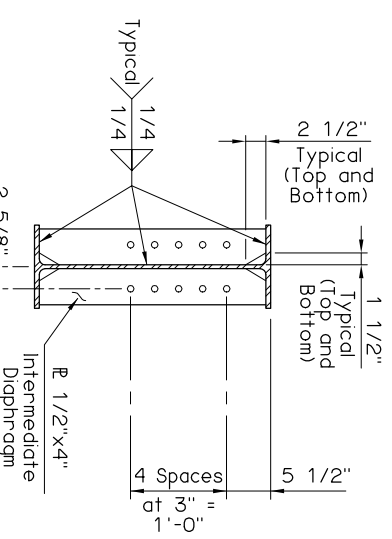
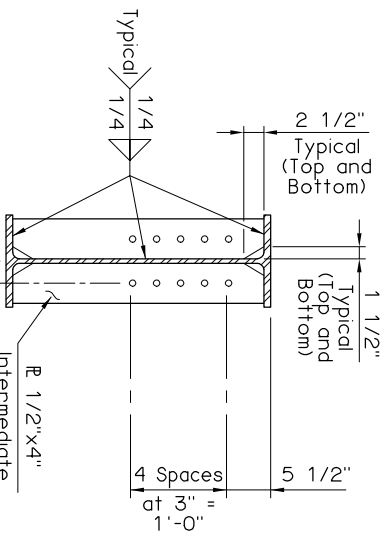


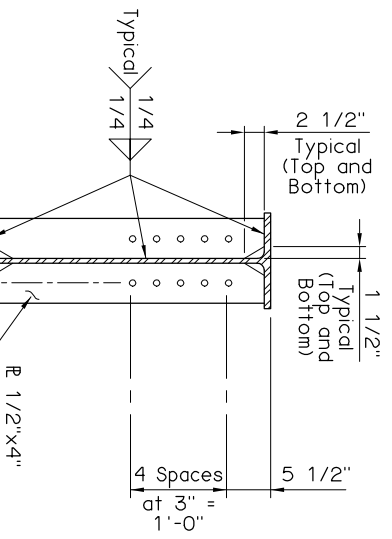
W27 BEAM



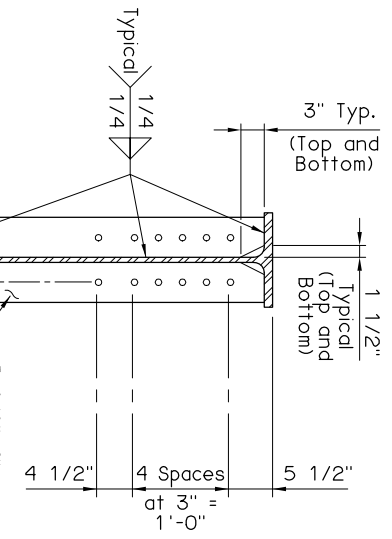
W30 BEAM



W33 BEAM

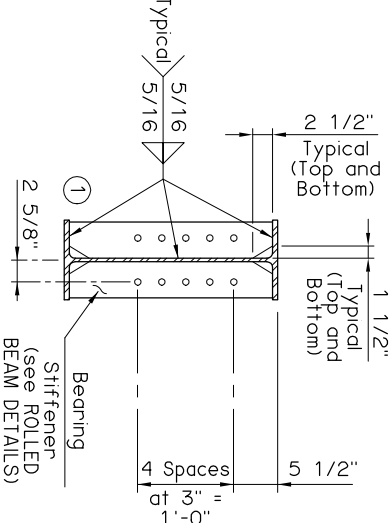


W36 BEAM

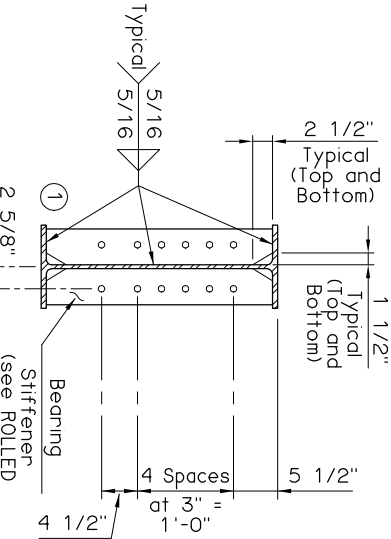


W40 BEAM

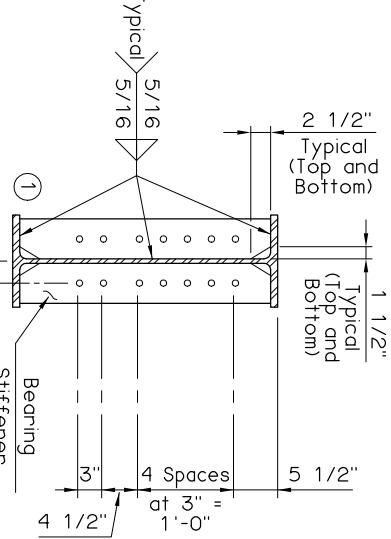
NOTE:
Terminate fillet welds 3/8"
from the edge of clipped
corners of all stiffener
plates and non-clipped
corners of Intermediate
Diaphragm Stiffeners.
Wrip fillet weld around
non-clipped corners of
Bearing Stiffeners.



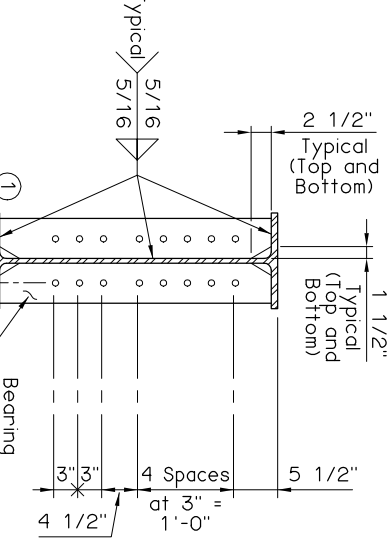
W27 BEAM



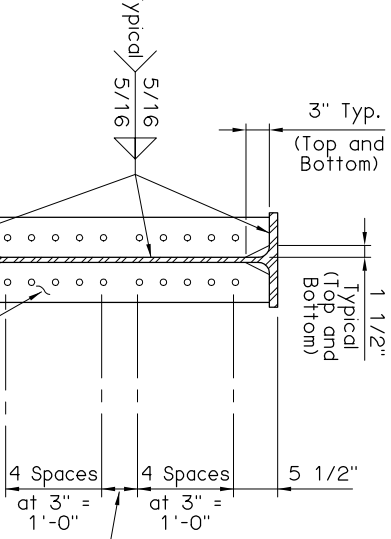
W30 BEAM



W33 BEAM



W36 BEAM



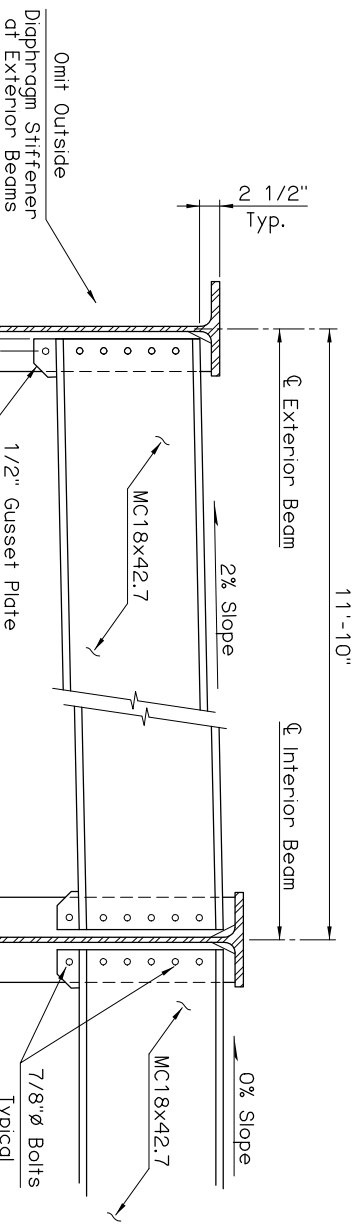
W40 BEAM

NOTE:
Contractor may elect to fabricate a Bent Plate Diaphragm
in lieu of Channel and Gusset Plate. Plate shall be 1/2"
minimum thickness and formed in the shape of channel with
minimum 4" flanges. Depth of Bent Plate Diaphragm shall be
equal or greater than that shown for combined Channel and
Gusset Plate. Cost to construct Bent Plate Diaphragm shall
be at Contractor's expense.

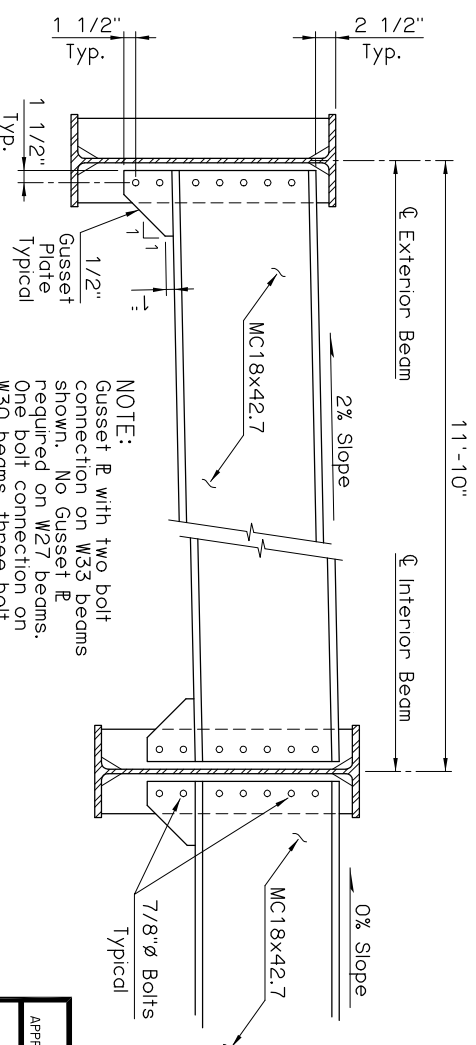
BEARING STIFFENER DETAILS

① Mill to bear of bottom flange.

NOTE:
Structural steel for channel diaphragms and Gusset Plates shall conform to AASHTO M270 (ASTM A709), Grade 50W (Weathering Steel), Charpy V-Notch testing not required. Bolts shall conform to AASHTO M164 (ASTM A325). All bolts, nuts, washers and welding shall have weathering characteristics.



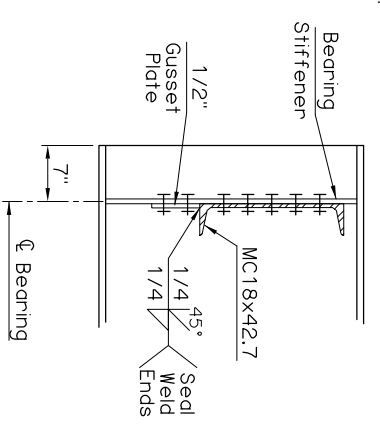
NOTE:
W40 beam shown with Gusset R with one bolt connection. No Gusset R required for W27, W30, W33 or W36 beams.



NOTE:
W40 beam shown with Gusset R with one bolt connection. No Gusset R required for W27, W30, W33 or W36 beams.

END DIAPHRAGM ELEVATION

END DIAPHRAGM SECTION



APPROVED BY BRIDGE ENGINEER
Chad Head
DATE 8/16/09

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
DIAPHRAGM DETAILS
ROLLED BEAMS
CONVENTIONAL
(SHEET 1 OF 2)