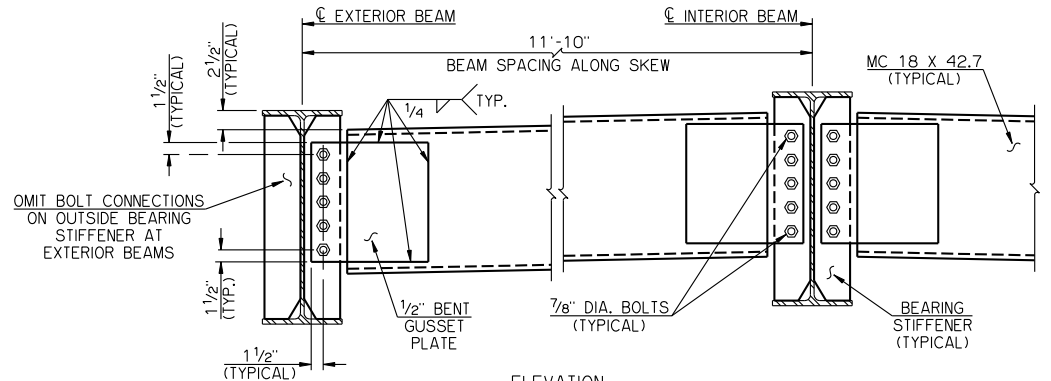
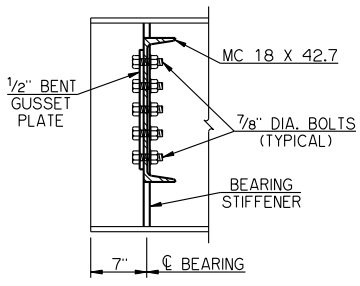


PLAN

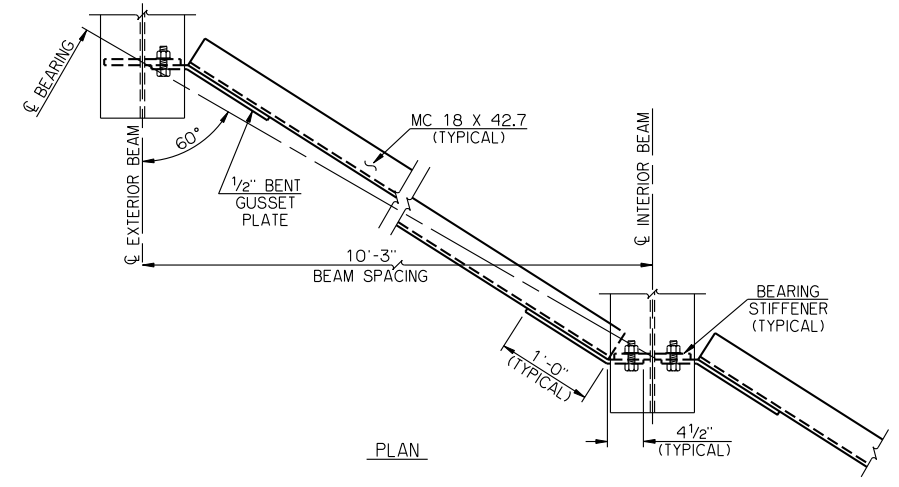


ELEVATION

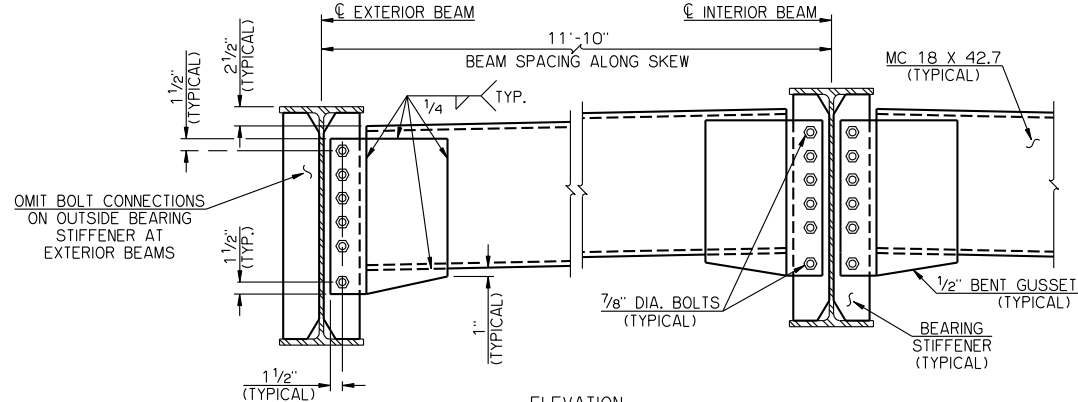
END DIAPHRAGM DETAILS FOR W24 AND W27 BEAMS



SECTION

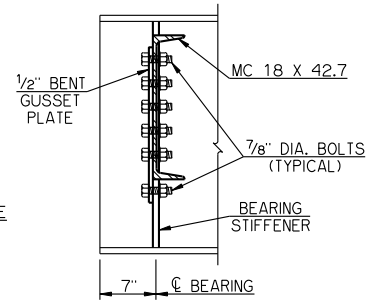


PLAN

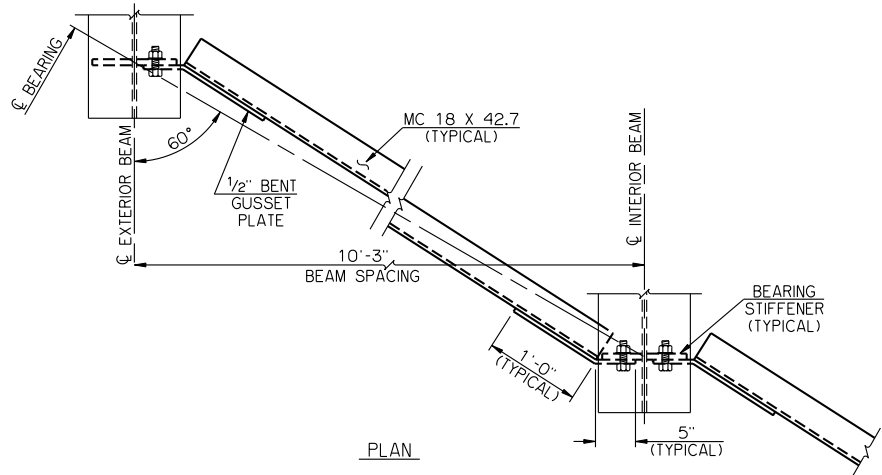


ELEVATION

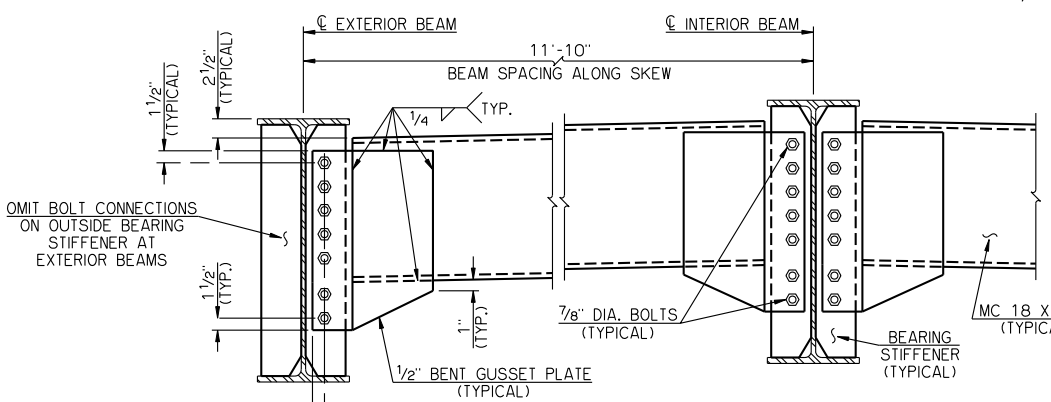
END DIAPHRAGM DETAILS FOR W30 BEAMS



SECTION

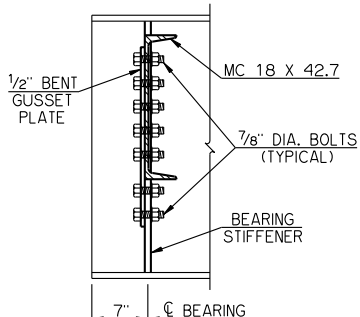


PLAN



ELEVATION

END DIAPHRAGM DETAILS FOR W33 BEAMS



SECTION

**NOTES**

PLAN VIEWS SHOWN WITH LEFT FORWARD SKEW, RIGHT FORWARD SKEW WILL BE OPPOSITE HAND.

STRUCTURAL STEEL FOR CHANNEL DIAPHRAGMS AND GUSSET PLATES SHALL CONFORM TO AASHTO M 270 (ASTM A 709), GRADE 50W, WEATHERING STEEL (CHARPY V-NOTCH TESTING NOT REQUIRED). BOLTS SHALL CONFORM TO AASHTO M 164 (ASTM A 325), TYPE 3. HEX NUTS SHALL CONFORM TO AASHTO M 291 (ASTM A 563), PROPERTY CLASS 8S3 OR 10S3. WASHERS SHALL CONFORM TO AASHTO M 293 (ASTM F 436), TYPE 3.

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 TO OR GREATER THAN THAT SHOWN FOR COMBINED CHANNEL AND GUSSET PLATE. COST TO CONSTRUCT BENT PLATE DIAPHRAGM SHALL BE AT THE CONTRACTOR'S EXPENSE.

APPROVED BY BRIDGE ENGINEER *Robert J. Duch* DATE 9-9-2011

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
COUNTY BRIDGE STANDARD (ENGLISH)

**END DIAPHRAGM DETAILS  
ROLLED BEAMS  
(SHEET NO. 1 OF 2)**

26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°

2009 SPECIFICATIONS      CB26-C-SK30-DIA-END-RB-1      01E      CB-242E