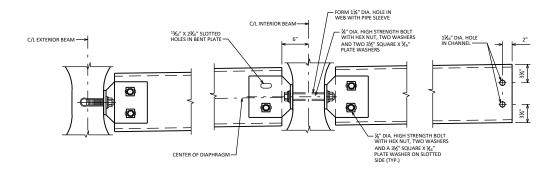
TOP OF DECK A C 12X20.7 DIAPHRAGM SEE DETAIL B SEE DETAIL B

PART TRANSVERSE SECTION AT DIAPHRAGM

EXTERIOR GIRDER

DETAIL C



INTERIOR GIRDER

DETAIL B

- ¾" DIA. X 2" LONG ELECTROPLATED CAP SCREW WITH LOCK-WASHER AND 21/2" A 3½" SQUARE X $\frac{7}{16}$ " PLATE WASHER. TORQUE TO 80 FT.-LBS. ¹¾6" X 2¾6" SLOTTED HOLES IN EACH BENT PLATE ¾" DIA. ELECTROPLATED FERRULE LOOP INSERT AND 11/16" DIA. IN C12X20.7 #4 TIE BARS X 3'-0 LONG. FASTEN TO GIRDER STIRRUPS. -15/16" X 2 3/16" LONG SLOTTED HOLE (TYP.) FOR EACH PAIR OF ANGLES ON A GIVEN –¹⅓6" X 2¾6" LONG SLOTTED BEAM FACE, ONE SLOTTED HOLE TO BE VERTICAL AND ONE TO BE HORIZONTAL. SECTION A-A HOLE (TYP.) BEAM FACE DIAPHRAGM FACE

NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-_-_", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

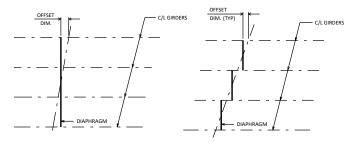
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR

DESIGNER NOTES

FOR SPANS EQUAL TO OR LESS THAN 80'-0", PLACE ONE DIAPHRAGM AT MID-LENGTH OF GIRDER. FOR SPANS OVER 80'-0", PLACE AT 1/3 AND 2/3 POINTS.

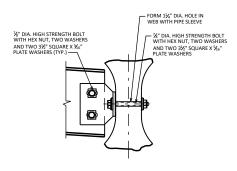
ON THE PLANS, SHOW LOCATION OF INSERTS/HOLES FOR DIAPHRAGM TO WEB CONNECTION, NOT ONLY FROM THE BOTTOM OF THE GIRDER (DIM "A" AND "B"), BUT ALSO FROM THE ENDS OF EACH GIRDER.



PLAN FOR SKEW ANGLES ≤ 10°

ATTACHMENT TO CHANNEL

PLAN FOR SKEW ANGLES > 10°



SECTION AT INTERIOR GIRDERS THRU
DIAPHRAGM FOR SKEW ANGLES > 10°

INTERM. STEEL DIAPHS. FOR 36W" PRESTRESSED GIRDERS



APPROVED: Laura Shadewald

7-25