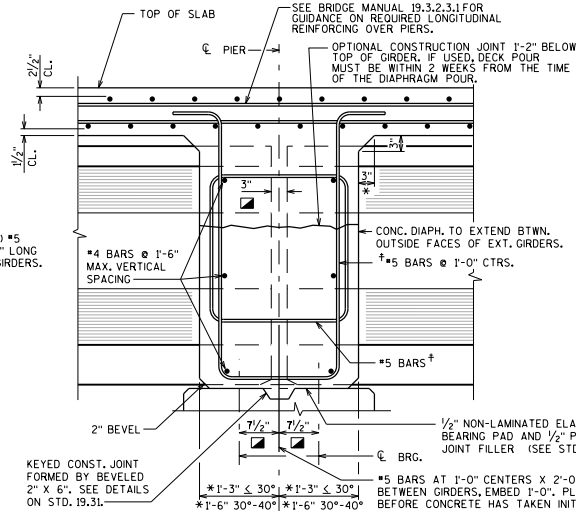
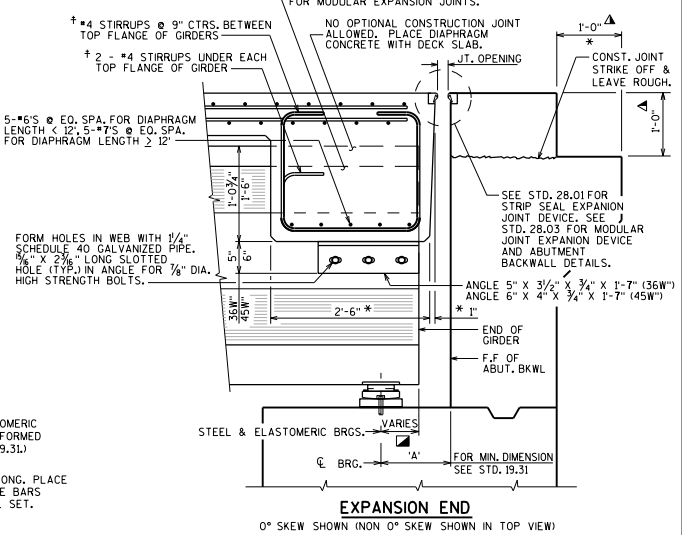


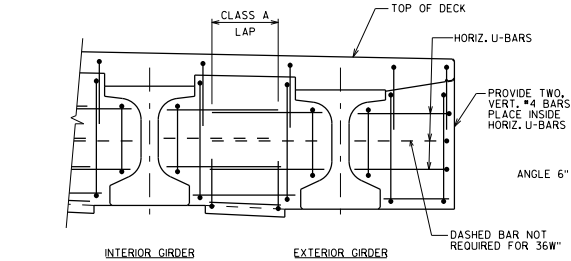
**PRESTRESSED GIRDER WITH SEMI-EXPANSION SEAT**



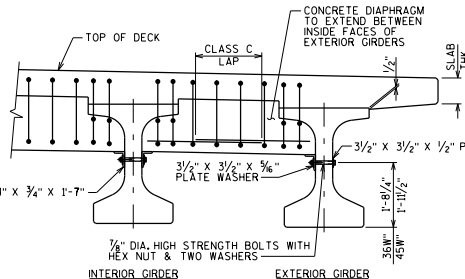
**DIAPHRAGM AT 1/2" ELASTOMERIC BEARING**



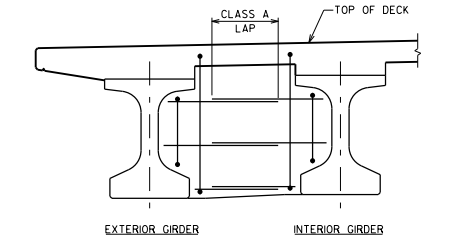
**EXPANSION END**  
0° SKEW SHOWN (NON 0° SKEW SHOWN IN TOP VIEW)



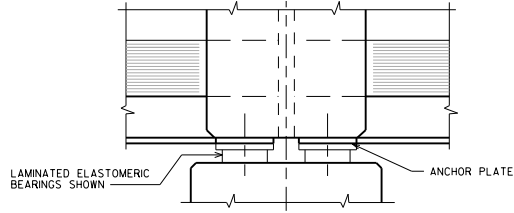
**PART TRANSVERSE SECTION AT DIAPHRAGM SEMIEXPANSION END**



**PART TRANSVERSE SECTION AT DIAPHRAGM EXPANSION END**



**PART TRANSVERSE SECTION AT DIAPHRAGM PIER**

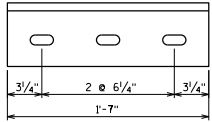


**DIAPHRAGM AT STEEL OR ELASTOMERIC BEARINGS SECTION THRU DIAPHRAGM AT PIER**

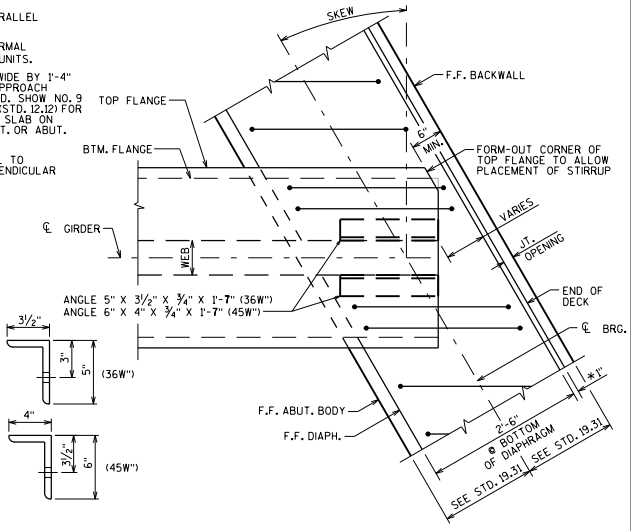
FOR STEEL BEARINGS, FORM DIAPHRAGM APPROXIMATELY 1/2" ABOVE BEARING KEEPER BARS

**LEGEND**

- DIMENSION IS TAKEN PARALLEL TO CL GIRDER.
- \* DIMENSION IS TAKEN NORMAL TO CL SUBSTRUCTURE UNITS.
- △ PAVING NOTCH IS 1'-0" WIDE BY 1'-4" DEEP IF STRUCTURAL APPROACH SLAB (STD. 12.10) IS USED. SHOW NO. 9 STAINLESS STEEL BAR (STD. 12.12) FOR STRUCTURAL APPROACH SLAB ON THE SECTION THRU ABUT. OR ABUT. DIAPH.
- † BARS PLACED PARALLEL TO GIRDERS, SPACING PERPENDICULAR TO CL GIRDERS.



**ANGLE**



**TOP VIEW OF DIAPHRAGM (EXPANSION END)**

**NOTES**

- ALL DIAPHRAGM SUPPORT HARDWARE SHALL BE INCIDENTAL TO "CONCRETE MASONRY BRIDGES".
- DIAPHRAGM SUPPORT ANGLES SHALL BE ASTM A709 GRADE 36.
- ALL DIAPHRAGM SUPPORT HARDWARE INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.
- STEEL DIAPHRAGM SUPPORT ANGLE TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS 1/4 TURN. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

**DESIGNER NOTE**

LAP LENGTHS FOR DIAPHRAGM REINFORCEMENT SHALL BE BASED ON A CLASS "C" TENSION LAP SPLICE, UNLESS OTHERWISE NOTED.

**PRESTRESSED 36" & 45" GIRDER SLAB & SUPERSTRUCTURE DETAILS**

**BUREAU OF STRUCTURES**

APPROVED: *Laura Shadewald* DATE: 1-19