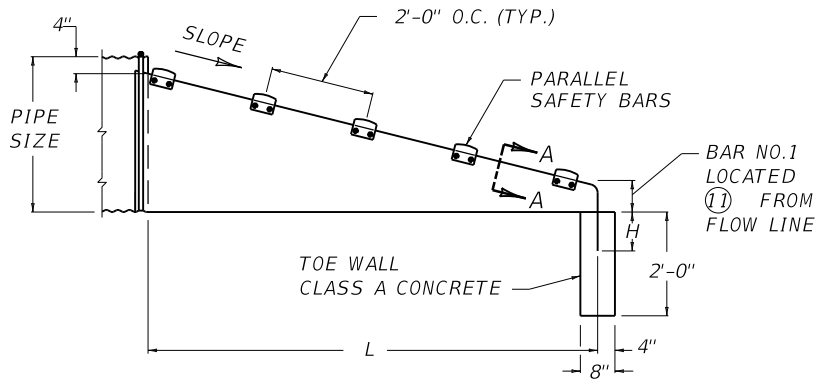
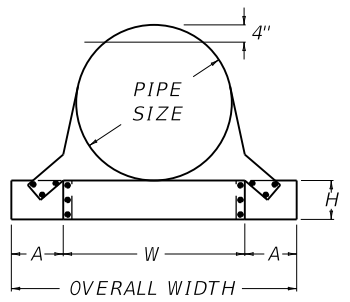


~ NOTES ~

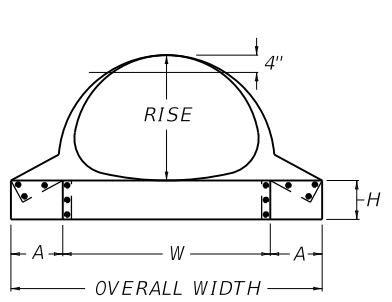
- BID ITEM AND UNIT TO BID
 METAL END SECTION TY \otimes \triangle IN EACH
- \otimes 1 = PARALLEL STRUCTURE ON 6:1 SLOPE, 2 = PARALLEL STRUCTURE ON 10:1 SLOPE
 \triangle SIZE IN INCHES
- BID ITEM EXAMPLE: METAL END SECTION TY 1-15 IN.
- THE CONTRACT UNIT PRICE EACH FOR METAL END SECTION SHALL INCLUDE CLASS A CONCRETE, EXCAVATION, AND ALL INCIDENTALS NECESSARY TO COMPLETE ONE INSTALLATION AS DETAILED.
- METAL END SECTIONS SHALL BE FABRICATED FROM GALVANIZED SHEETS, CONFORMING TO AASHTO M218.
 - METAL END SECTIONS & TAPERED SLEEVES SHALL BE ASPHALT COATED IN ACCORDANCE WITH SECTION 806 OF THE CURRENT KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ASPHALT COATING IS NOT REQUIRED ON SAFETY BARS.
 - SAFETY BARS SHALL BE REQUIRED ON ALL METAL END SECTIONS CONSTRUCTED PARALLEL TO THE ROADWAY.
 - SAFETY BARS SHALL BE CONSTRUCTED OF SCHEDULE 40 GALVANIZED STEEL PIPE (COMMERCIAL GRADE).
 - THE TAPERED SLEEVE SHALL BE GALVANIZED SMOOTH METAL CONFORMING TO AASHTO M218, WITH A WALL THICKNESS AS FOLLOWS: 18" DIA. OR LESS = .079", 21" DIA. OR LARGER = .109".
 - SLOTTED HOLES FOR SAFETY GRATE ATTACHMENT SHALL BE PUNCHED PRIOR TO GALVANIZING. FIELD DRILLING OF HOLES SHALL NOT BE PERMITTED.
 - WATERPROOF MASTIC CONFORMING TO 807.02.03 OF THE CURRENT KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL BE PLACED IN THE VOID BETWEEN THE TAPERED SLEEVE AND CONCRETE PIPE.
 - FORM $\frac{1}{2}$ " x $2\frac{2}{3}$ " CORRUGATIONS. MAINTAIN INSIDE DIAMETER OF SLEEVE. FINISHED END IS TO BE THE SAME DIAMETER AS CORRUGATED STEEL PIPE DIAMETER.
 - ALL MISCELLANEOUS HARDWARE SHALL COMPLY WITH AASHTO M36.
 - THE WELDS USED IN THE MANUFACTURE OF THE TAPERED SLEEVE FOR ELLIPTICAL CONC. PIPE SHALL BE REPAIRED IN ACCORDANCE WITH AASHTO M36 USING ZINC OXIDE-ZINC DUST PRIMER, FEDERAL SPECIFICATION TT-P-641, TYPE II, NO COLOR ADDED.
 - TYPE 1 = 6", TYPE 2 = 4"



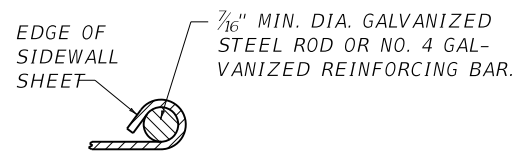
SIDE ELEVATION



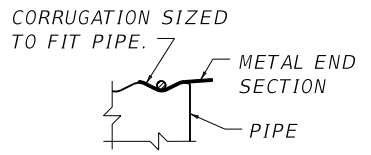
END SECT. FRONT VIEW CIRCULAR PIPE



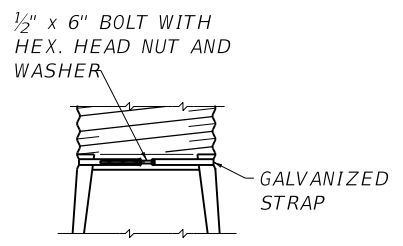
END SECT. FRONT VIEW ARCHED PIPE



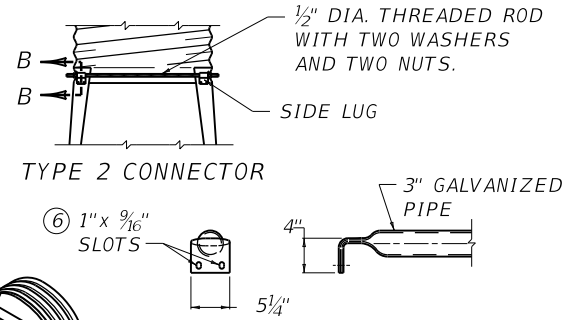
SECTION A-A



SECTION B-B

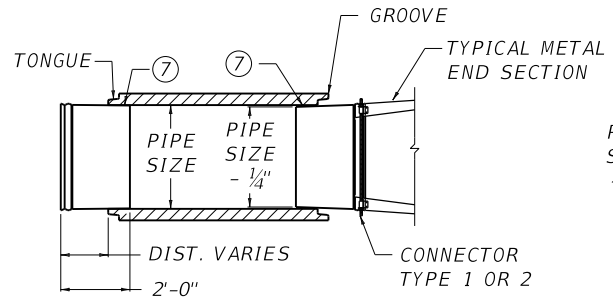


TYPE 1 CONNECTOR

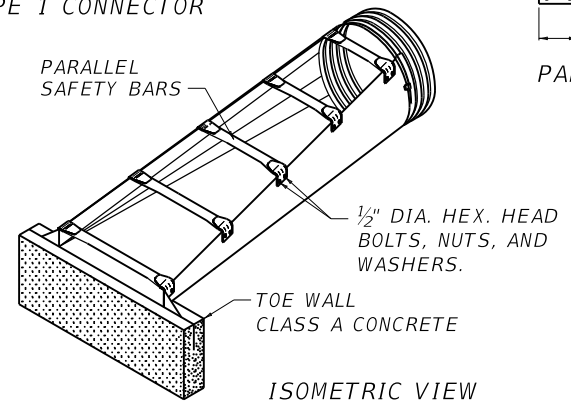
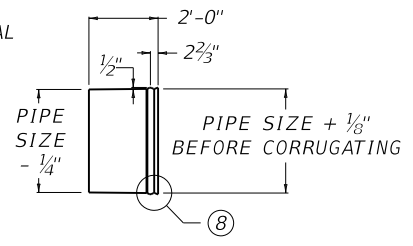


TYPE 2 CONNECTOR

PARALLEL SAFETY BAR



SMOOTH TAPERED SLEEVE FOR USE WITH CONCRETE PIPE



ISOMETRIC VIEW

USE WITH CUR. STD. DWG. RDB-160

KENTUCKY DEPARTMENT OF HIGHWAYS	
METAL END SECTION TYPE 1 AND 2 (PARALLEL STRUCTURES)	
STANDARD DRAWING NO. RDB-150-02	
SUBMITTED <i>W. S. G. S.</i>	12-01-15
DESIGNED BY <i>W. S. G. S.</i>	DATE
APPROVED <i>W. S. G. S.</i>	12-01-15
STATE HIGHWAY ENGINEER	DATE