

~ 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

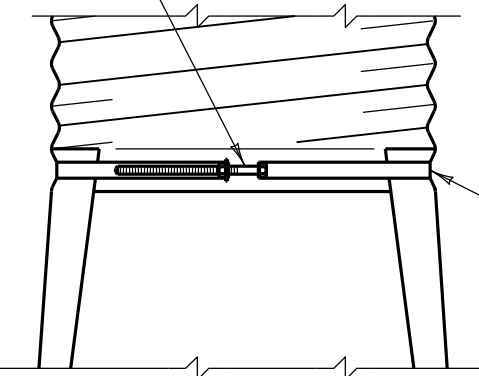
BID ITEM EXAMPLE: METAL END SECTION TY 1-15 IN.

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.

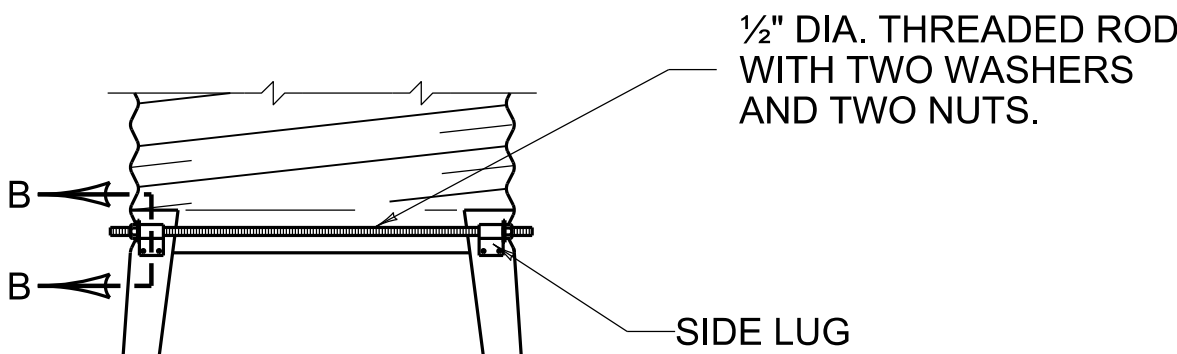
- METAL END SECTIONS SHALL BE FABRICATED FROM GALVANIZED SHEETS, CONFORMING TO AASHTO M218.
- METAL END SECTIONS & TAPERED SLEEVES SHALL BE ASPHALT COATED IN ACCORDANCE WITH SECTION 806 OF THE CURRENT KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ASPHALT COATING IS NOT REQUIRED ON 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"

USE WITH CUR. STD. DWG.
RDB-160

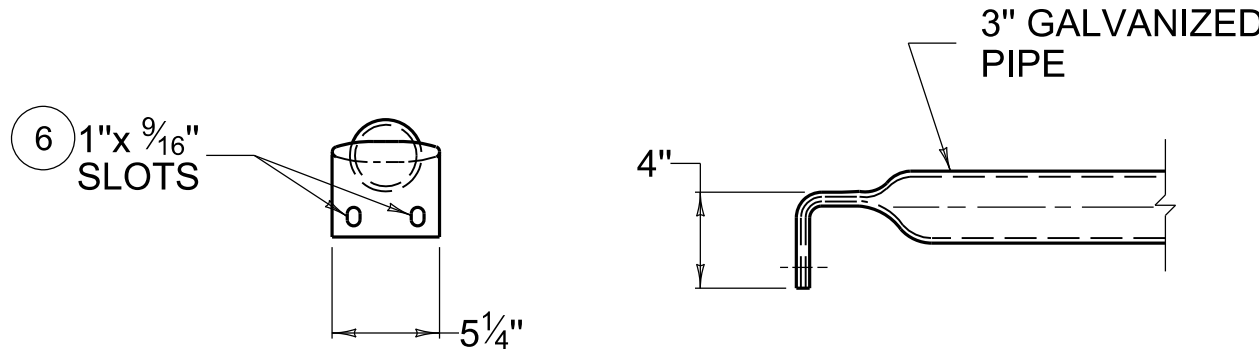
$\frac{1}{2}$ " x 6" BOLT WITH
HEX. HEAD NUT AND
WASHER



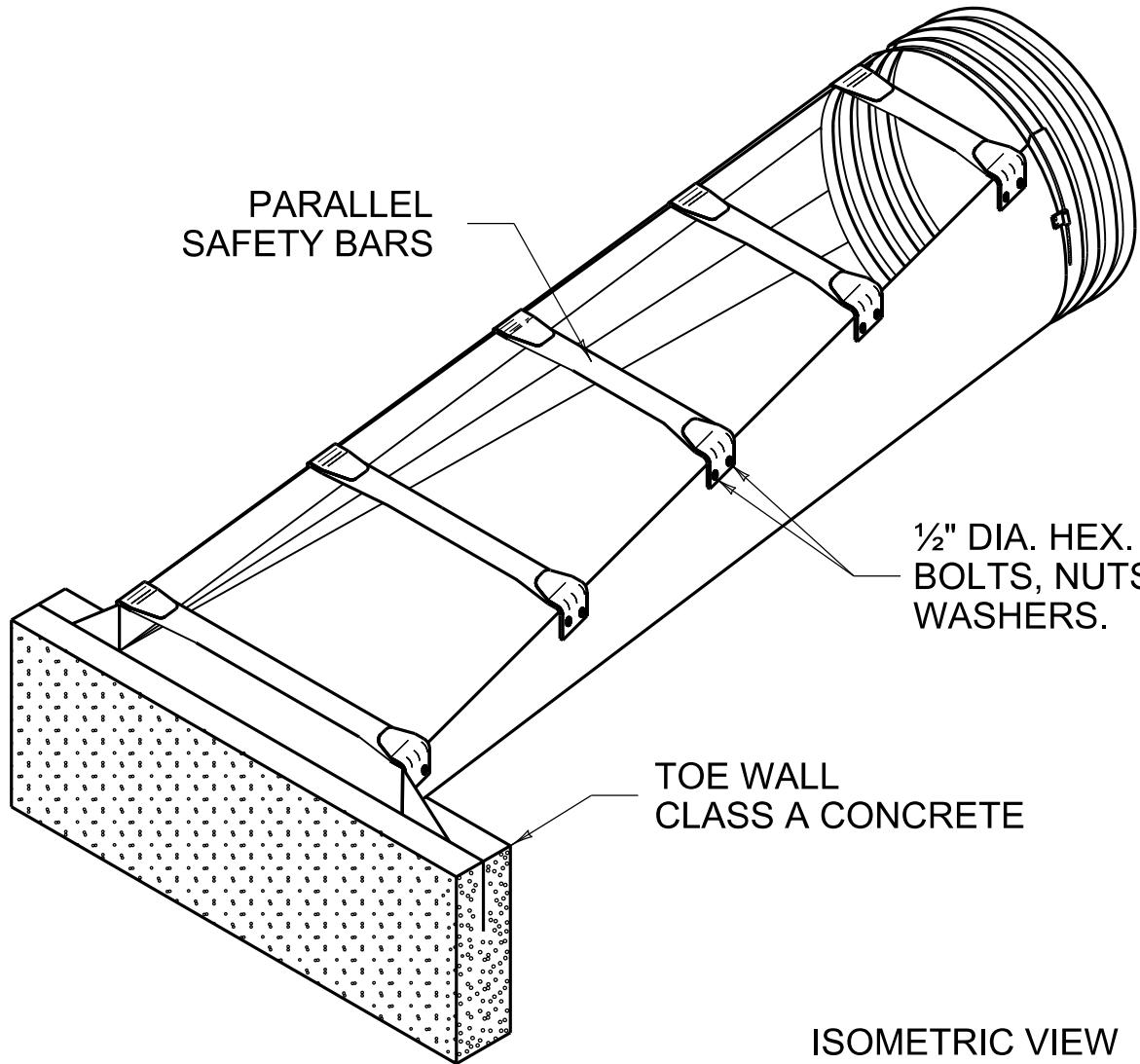
TYPE 1 CONNECTOR



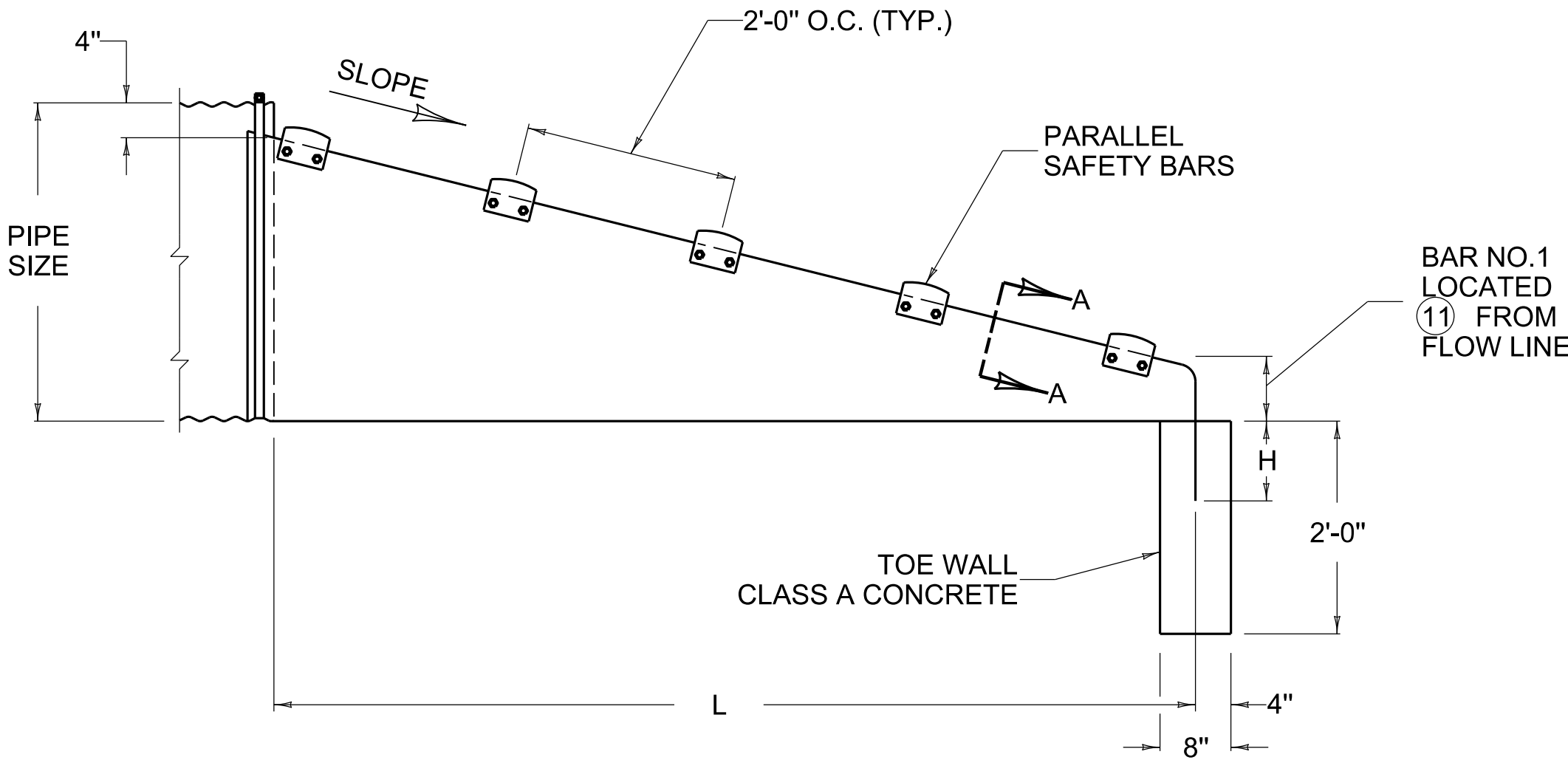
TYPE 2 CONNECTOR



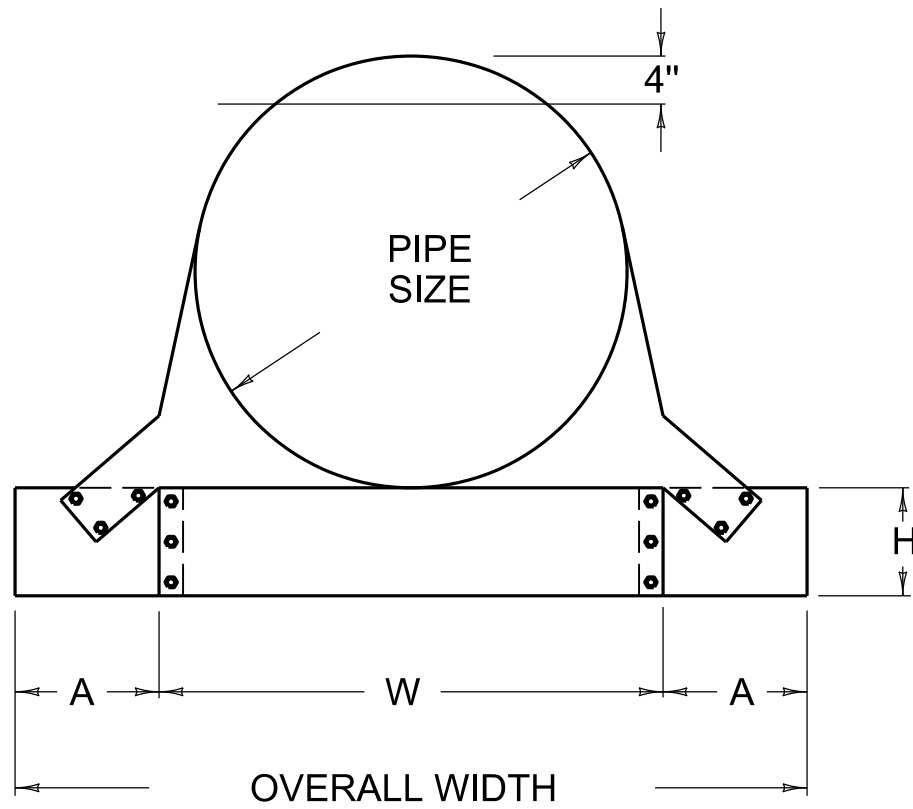
PARALLEL SAFETY BAR



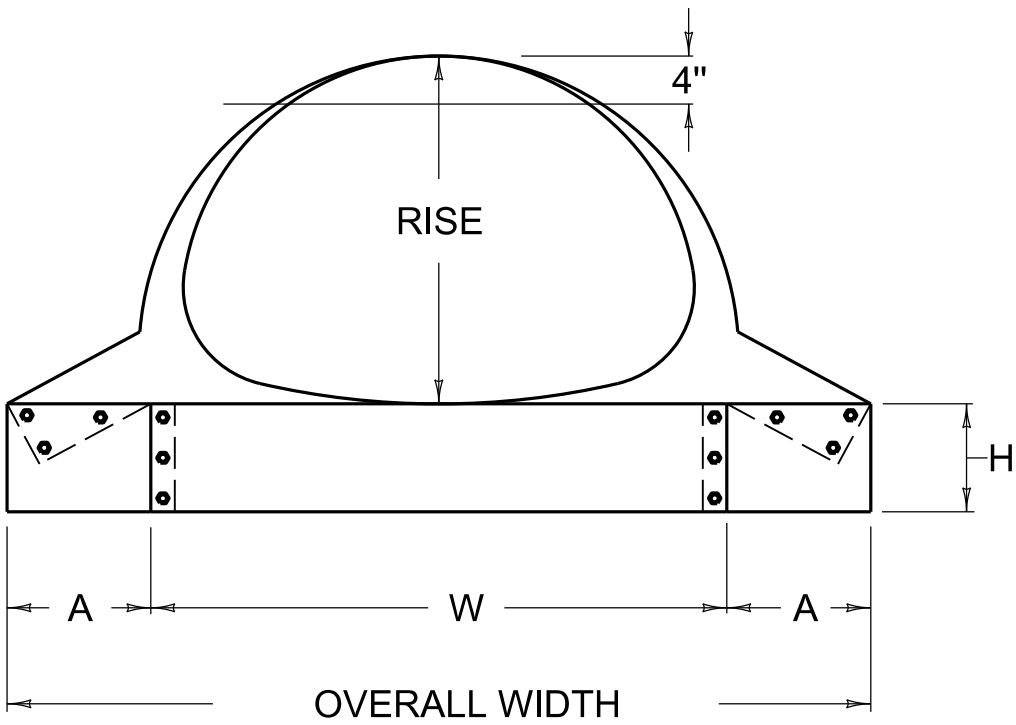
ISOMETRIC VIEW



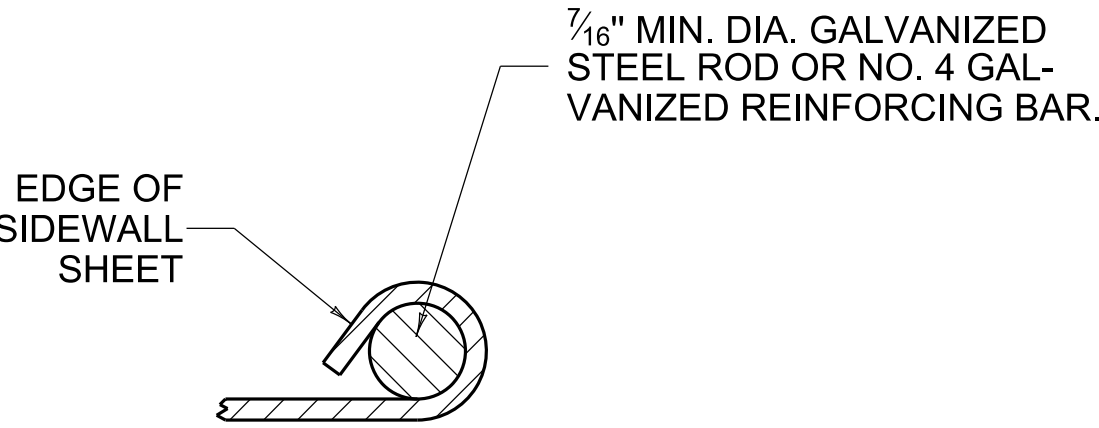
SIDE ELEVATION



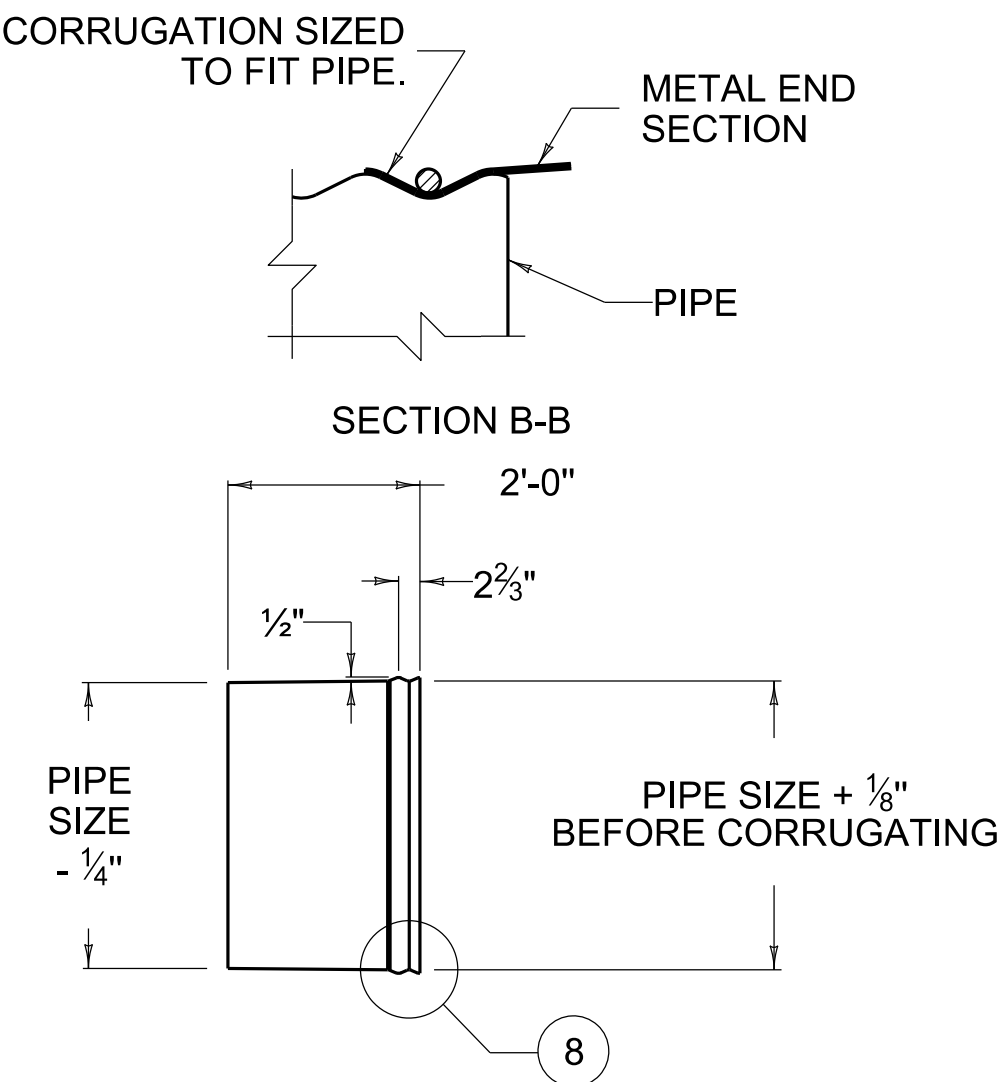
END SECT. FRONT VIEW
CIRCULAR PIPE



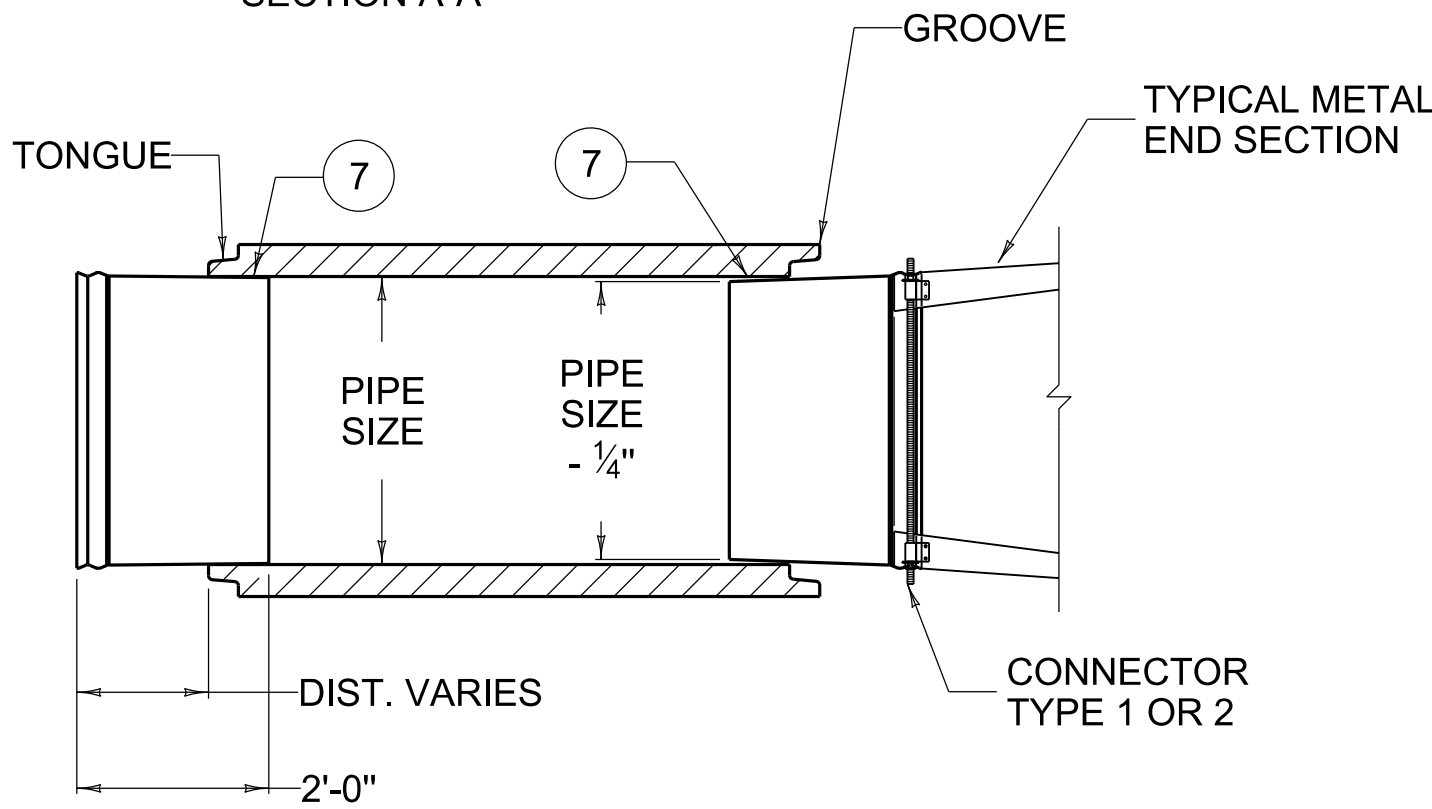
END SECT. FRONT VIEW
ARCHED PIPE



SECTION A-A



SECTION B-B



TYPICAL METAL
END SECTION

SMOOTH TAPERED SLEEVE FOR USE WITH CONCRETE PIPE



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



END SECTIONS

METAL END SECTION TYPE 1 AND 2 (PARALLEL STRUCTURES)

STANDARD DRAWING NUMBER
RDB-150-02

DRAINAGE

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STATE HIGHWAY ENGINEER