**PLAN VIEW**

- \( \frac{3}{4}'' \times \frac{3}{4}'' \times 3'' \) BAR
- \( \frac{3}{8}'' \times \frac{3}{4}'' \) BAR
- \( 3'' \times \frac{3}{8}'' \) BAR FOR BEAM DEPTHS OVER 5'-0'' ONLY, NOT NEEDED FOR SLABS.

**SECTION A-A**

- PROVIDE SHIMS AS REQUIRED.
- 3'' SQUARE PLATES WITH \( \frac{3}{8}'' \) DIA. HOLES.
- BOTTOM OF BEAM FLANGE OR SLAB
- PROVIDE STRUCTURAL STEEL PER SPEC. 3306.
- GALVANIZE BOLTS AND WASHER PER SPEC. 3392.
- GALVANIZE OTHER MATERIALS PER SPEC. 3394 AFTER FABRICATION.
- PAYMENT FOR FLOOR DRAIN TYPE SHALL INCLUDE ALL MATERIAL SHOWN ON THIS DETAIL.

**NOTES:**

- MID-HEIGHT OF BEAM
- FACE OF BEAM WEB
- \( \frac{1}{2}'' \) NOM.
- SLOPE TO DRAIN FOR 1'-0'' ALL AROUND

**STATE OF MINNESOTA**

**DEPARTMENT OF TRANSPORTATION**

**BRIDGE FLOOR DRAIN**

(STRUCTURAL TUBE)

**APPROVED: NOVEMBER 22, 2002**

**STATE BRIDGE ENGINEER**

**REVISIONS:**
- 01-13-2004
- 01-05-2017

**DETAIL NO.**

B702