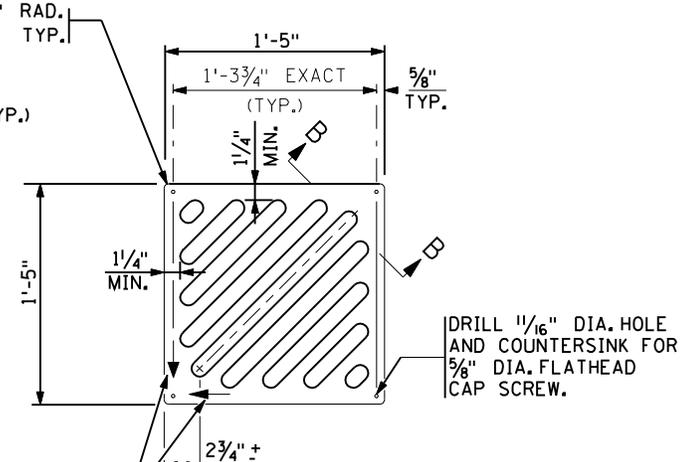
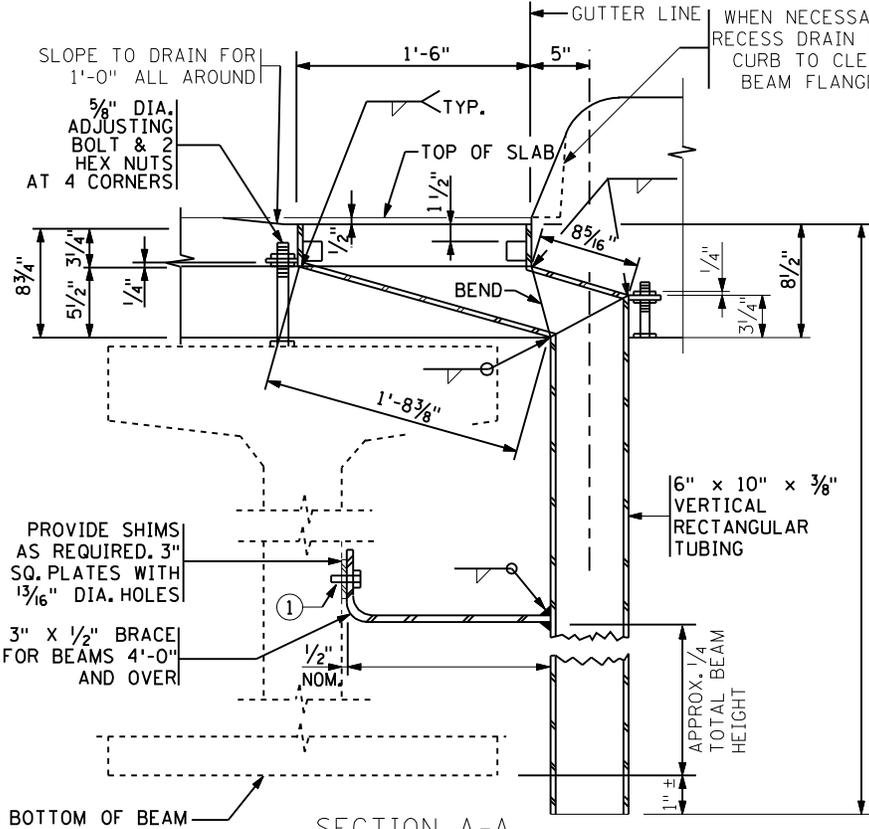


TOP VIEW
(SCUPPER)

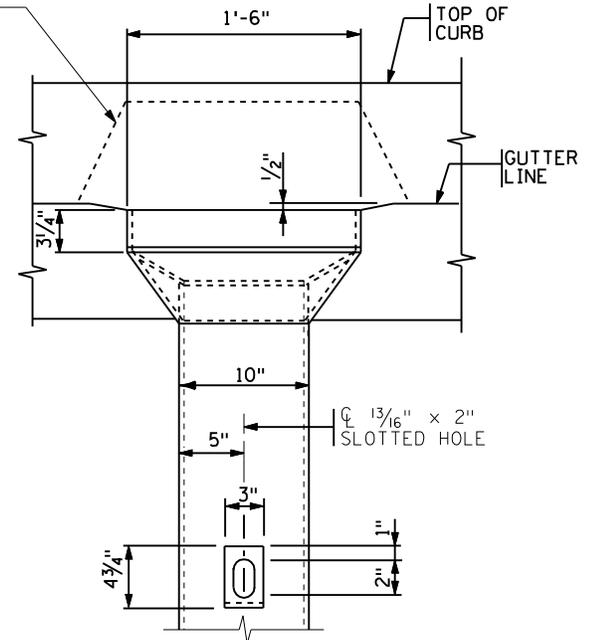


TOP VIEW
(GRATE)

PERMANENT ARROW
MARK, SEE NOTES.



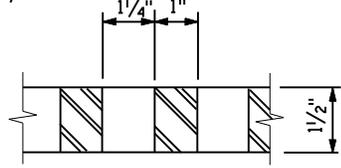
SECTION A-A
(CONCRETE BEAM SHOWN)



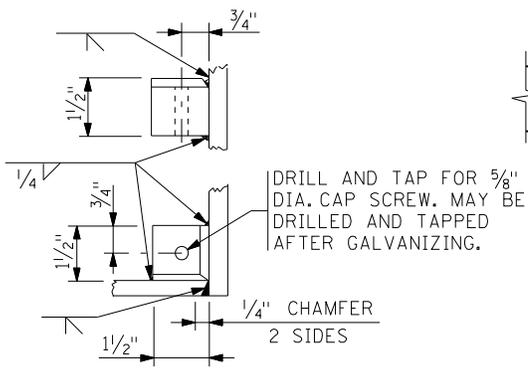
FRONT VIEW

NOTES:

- ALL STEEL PLATES PER Mn/DOT SPEC. 3306. FABRICATE GRATE USING AUTOMATICALLY CONTROLLED CUTTING TORCH.
- CAST IRON GRATE PER Mn/DOT SPEC. 3321, CLASS 35B, MAY BE USED AS AN ALTERNATE.
- WORKMANSHIP AND FABRICATION PER Mn/DOT SPEC. 2471.
- BLAST CLEAN SCUPPER AND GRATE AFTER FABRICATION. GALVANIZE, EXCEPT CAST IRON, PER Mn/DOT SPEC. 3394. GALVANIZE HARDWARE PER Mn/DOT SPEC. 3392.
- INSTALL GRATE WITH ARROW ON CURB SIDE AND IN DIRECTION OF FLOW.
- PAYMENT FOR FLOOR DRAIN, TYPE _____ SHALL INCLUDE ALL MATERIAL ON THIS DETAIL.
- GRATE OPENING AREA IS 106 SQ. IN.
- ① ATTACH TO BEAM WITH 3/4" DIA. BOLT, LOCKWASHER AND NUT AS REQUIRED. SEE SPECIAL PROVISIONS FOR APPROVED ANCHORAGE REQUIRED FOR CONCRETE BEAMS. ANCHORAGE TO MISS DRAPED STRANDS.



SECTION B-B



BRACKET DETAIL

APPROVED: NOVEMBER 22, 2002

Daniel J. Woyan
STATE BRIDGE ENGINEER

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

BRIDGE OFFSET FLOOR DRAIN
(WELDED BOX)

REVISION

DETAIL NO.

B705