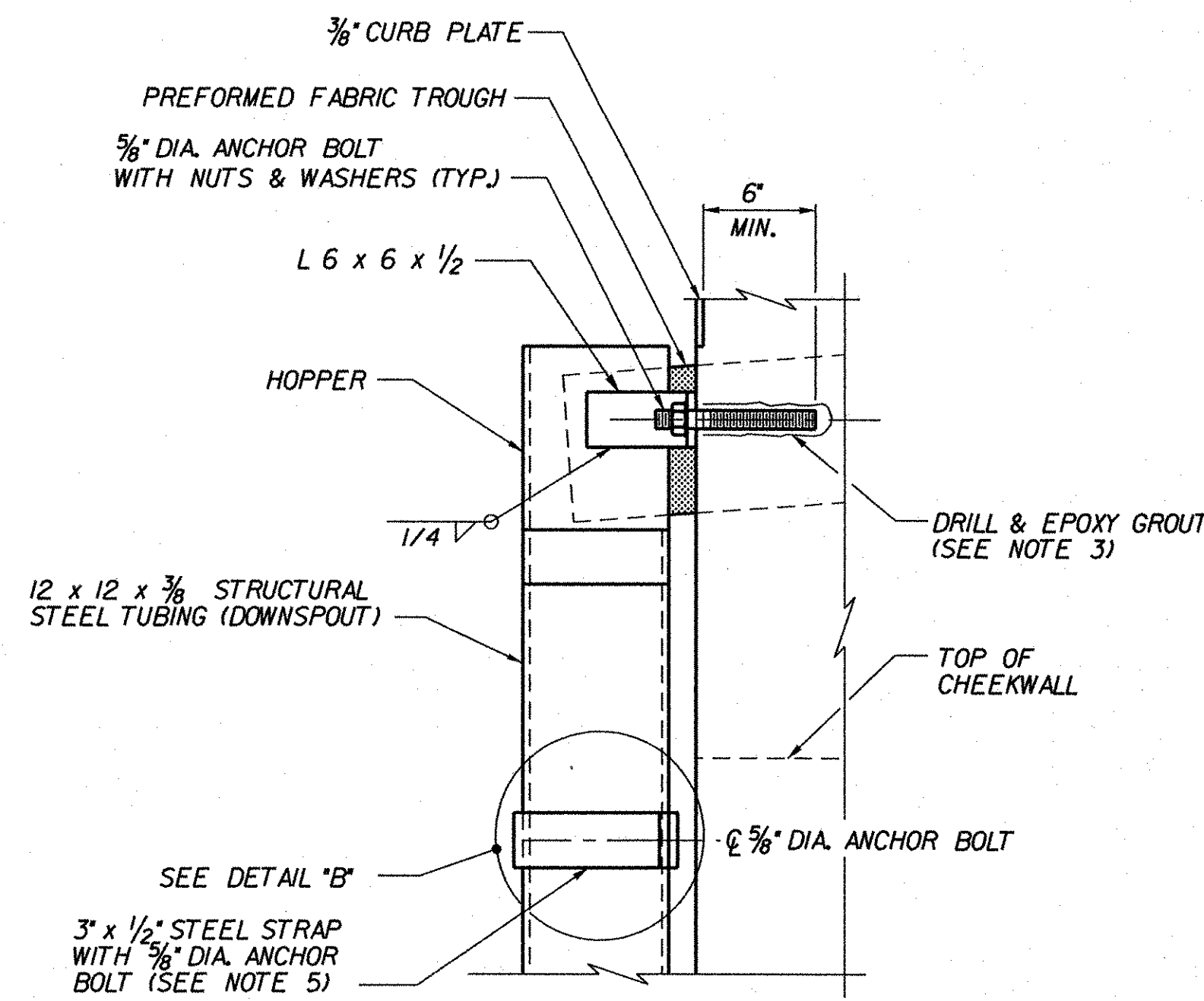
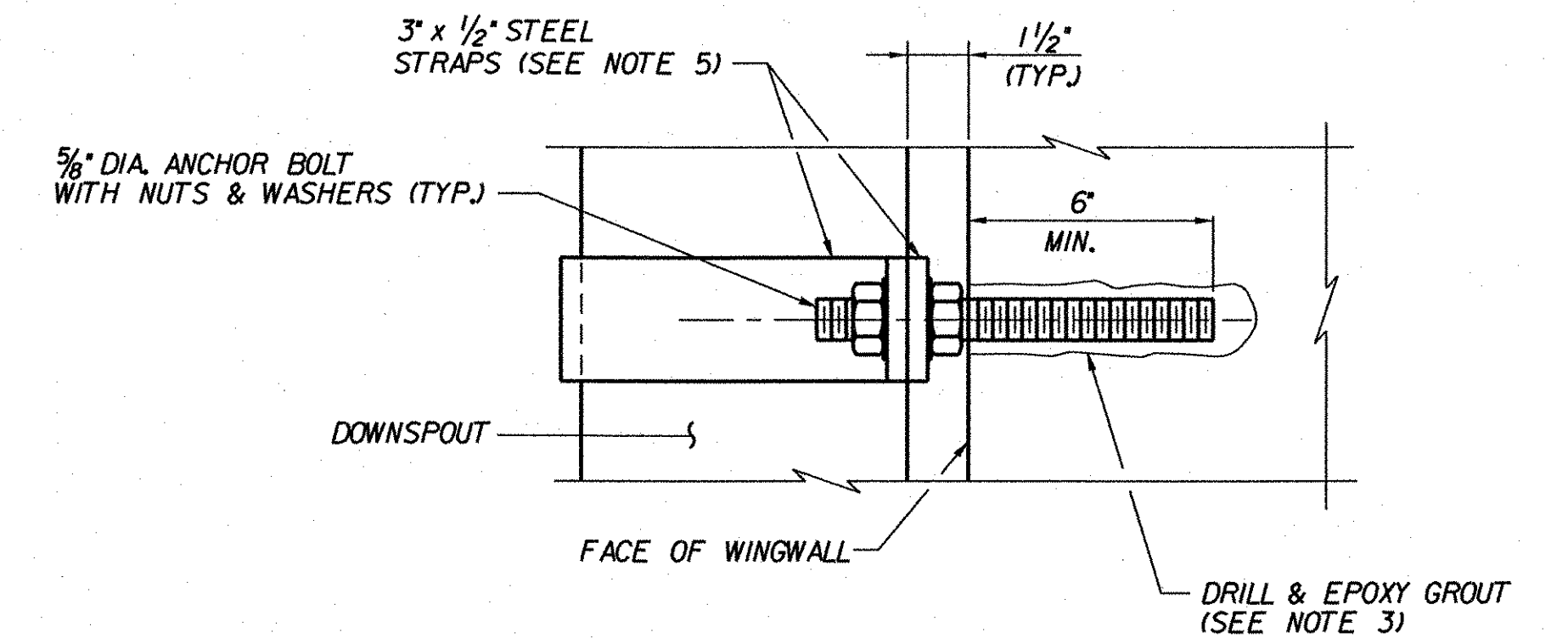


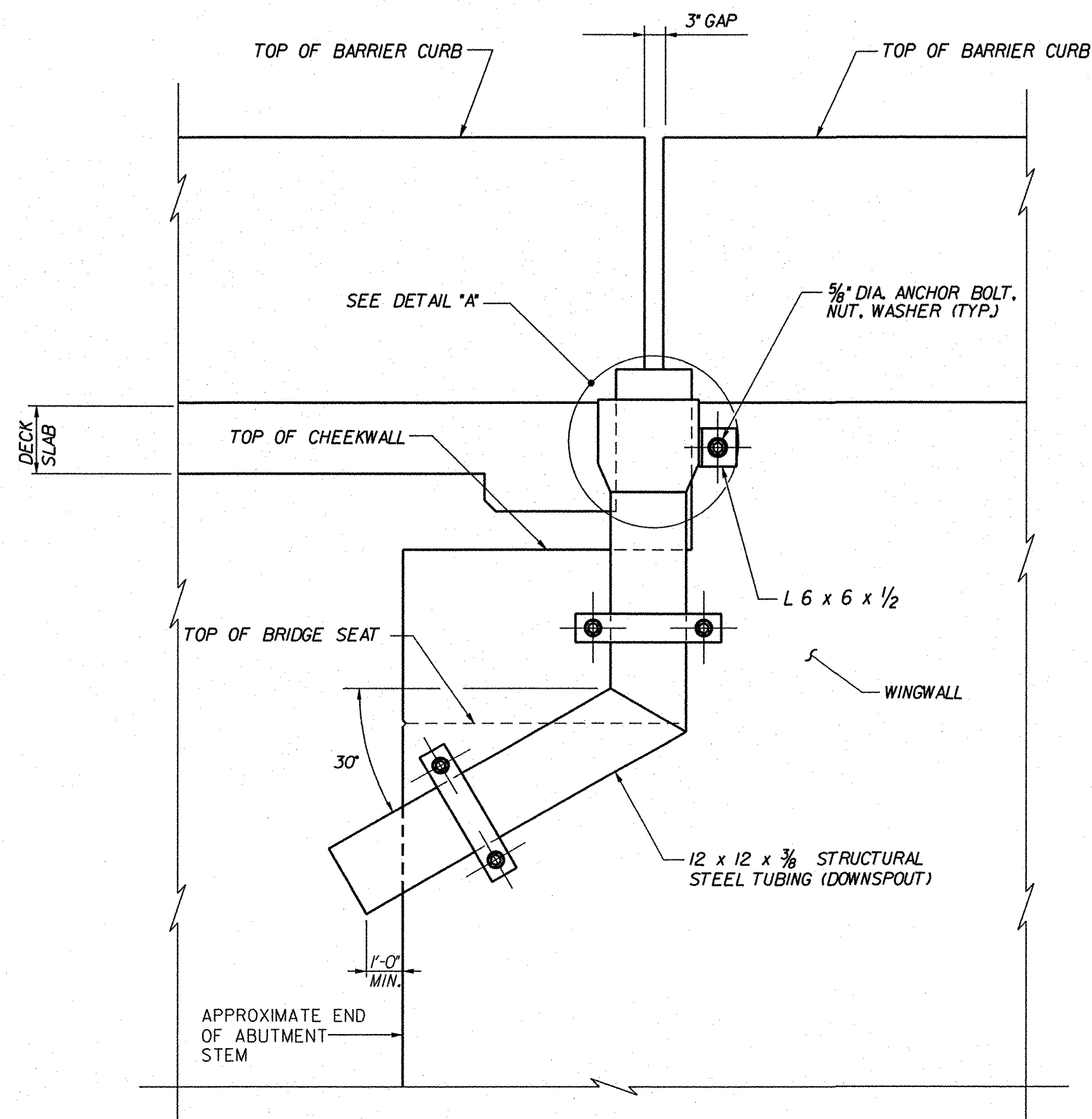
HOPPER LOCATION PLAN
NOT TO SCALE



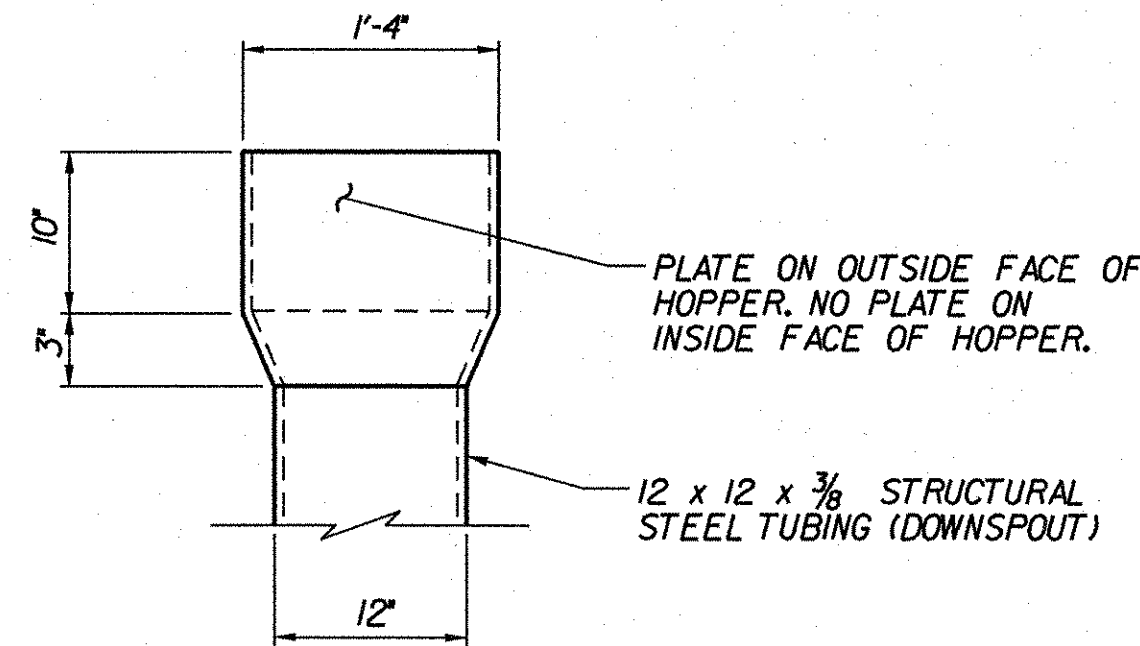
SECTION A-A
NOT TO SCALE



DETAIL "B"
NOT TO SCALE



ELEVATION
NOT TO SCALE



DETAIL "A"
NOT TO SCALE

NOTES:

- ALL PLATES, BARS, AND ANGLES SHALL CONFORM TO SUBSECTION 714.02. STRUCTURAL TUBING (DOWNSPOUT) SHALL CONFORM TO SUBSECTION 714.11. ALL STEEL SHALL BE GALVANIZED OR METALIZED IN ACCORDANCE WITH SUBSECTION 506.15. ALL HOPPER AND DOWNSPOUT WORK SHALL BE PAID FOR UNDER ITEM 506.60, "STRUCTURAL STEEL".
- HOPPERS SHALL BE FABRICATED FROM 3/8" STEEL PLATE. THE FABRICATION WELDS SHALL BE 1/4" FILLET WELDS ON THE INSIDE OF THE HOPPER AND SHALL BE FULL LENGTH TO ENSURE A WATERTIGHT CONTAINER.
- ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO SUBSECTION 714.04 OF THE SPECIFICATIONS, AND BE GALVANIZED IN ACCORDANCE WITH SUBSECTION 506.15. ANCHOR BOLTS SHALL BE DRILLED AND EPOXY GROUTED 6" MINIMUM INTO THE CONCRETE. DRILL AND EPOXY GROUT SYSTEM SHALL BE:
 - DAYTON SUPERIOR SURE-ANCHOR J-51 SYSTEM
 - HILTI, INC. HIT HY-150 SYSTEM
 - UNITEX PRO-POXY 300 FAST SYSTEM
 OR EQUIVALENT APPROVED BY VAOT MATERIALS AND RESEARCH SECTION. ALL COSTS FOR DRILLING AND EPOXY GROUTING ANCHOR BOLTS SHALL BE INCIDENTAL TO ITEM 506.60, "STRUCTURAL STEEL".
- THE HOPPERS SHALL BE PLACED AS SHOWN ON THIS SHEET. THIS WILL REQUIRE THAT THE HOPPER BE FORCED AS FAR AS POSSIBLE UP UNDER THE TROUGH. THE TROUGH SHOULD BE ENCLOSED AS MUCH AS POSSIBLE BY THE HOPPER BUT SHOULD NOT BE BENT OR BUCKLED TO RESTRICT THE FLOW OF WATER.
- STRAPS SHALL NOT BE BENT IN THE FIELD.
- AREAS WHERE THE GALVANIZING HAS BEEN REMOVED FROM THE DOWNSPOUT EITHER BY CUTTING, HANDLING, WELDING, PLACING OR ANY OTHER MEANS SHALL BE REPAIRED IN CONFORMANCE WITH SUBSECTION 513.06(f).

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

| | | | |
|---|--------------------|--------------------------|-----------------|
| Town Of | GUILFORD | Bridge No. | 3N&S |
| Highway No. | I-91 | Log Sta. | |
| | | Surv. Sta. | |
| I-91 OVER BROAD BROOK & BROAD BROOK ROAD | | | |
| JOINT DOWNSPOUT DETAILS (3N&S) | | | |
| Designed By | M.J. MOZER | Drawn By | R.A. BOTZENHART |
| Checked By | Date | Bridge Design Supervisor | |
| | P.W. SZUSTAK 01/03 | J.P. HALSTEAD | Date 01/03 |
| PROJECT | GUILFORD | PROJECT NO. | IM 091-1(33) |
| TVGA CAD Drawing No. | G JTDNSP | Date | 05/22/08 |
| Bridge Sheet No. | BR128 | Sheet | 54 of 114 |