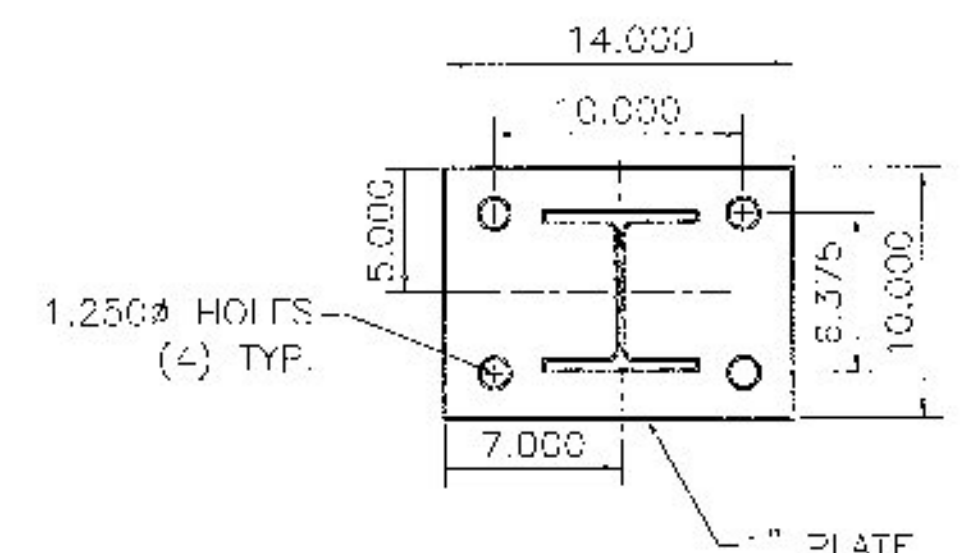
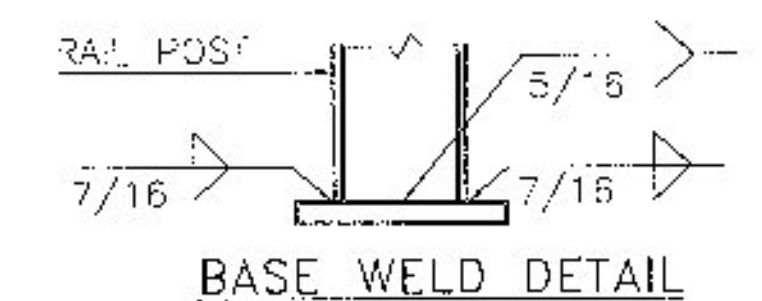


BRIDGE RAILING ELEVATION



POST AND BASE PLATE

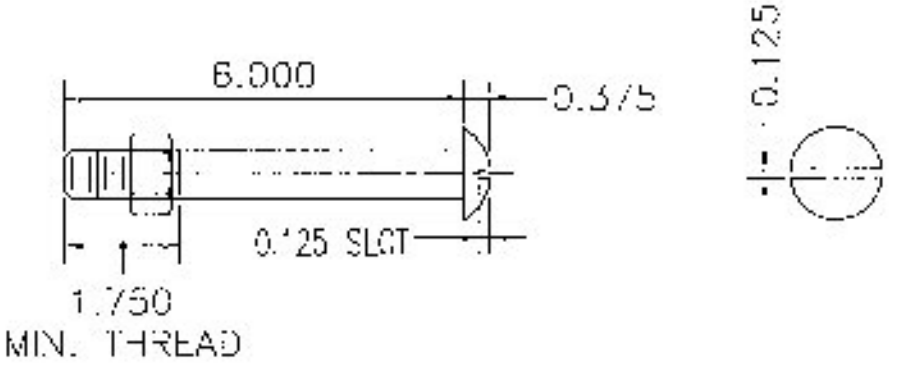


BASE WELD DETAIL

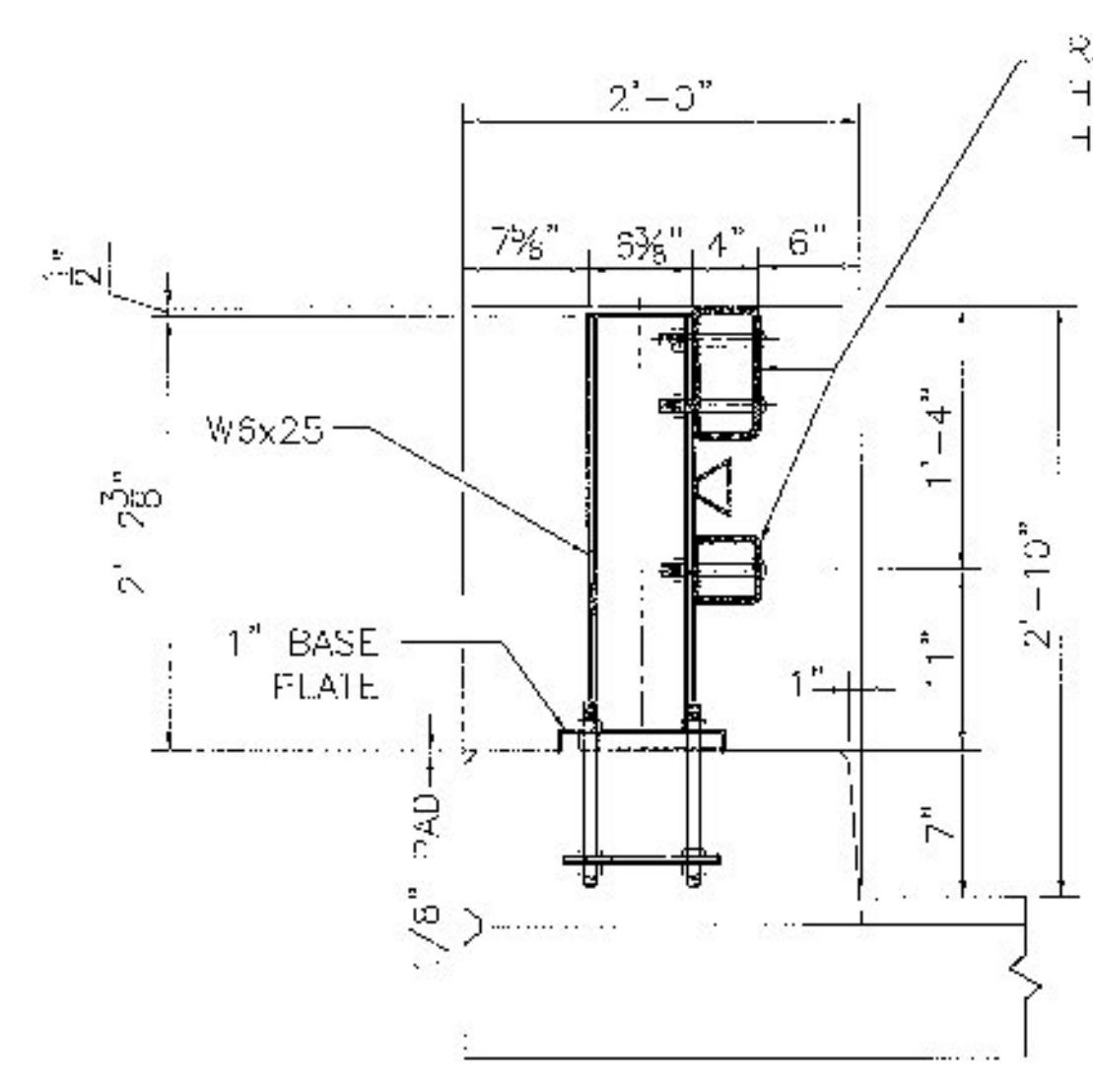
NOTES:

1. ALL WORK AND MATERIALS SHALL CONFORM TO SECTION 525.
2. PRIOR TO GALVANIZING, ALL EXPOSED CUT OR SHEARED EDGES SHALL BE ROUNDED TO A 1/16" RADIUS AND BE FREE OF BURRS.
3. ALL POSTS SHALL BE SET NORMAL TO GRADE.
4. SECTIONS OF RAIL TUBE SHALL BE ATTACHED TO A MINIMUM OF TWO (2) RAIL POSTS AND PREFERABLY TO AT LEAST FOUR (4) POSTS.
5. RAIL TUBE EXPANSION JOINT SHALL BE PROVIDED IN ANY RAIL BAY SPANNING THE END OF AN INTEGRAL ABUTMENT BRIDGE AND AT ALL SUPERSTRUCTURE EXPANSION JOINTS. EXPANSION JOINT WIDTH SHALL BE 4" AT 45° AND WILL BE ADJUSTED IN THE FIELD BY THE ENGINEER FOR OTHER TEMPERATURES.
6. HOLES IN RAILS FOR RAIL TUBE ATTACHMENT SHALL BE FIELD-DRILLED. HOLES SHALL BE COATED WITH AN APPROVED ZINC-RICH PAINT DURING INSTALLATION.
7. RAIL POST ANCHORING NUTS SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL ONE-EIGHTH TURN.
8. RAIL TUBES SHALL BE ATTACHED USING 3/4" FULL DIAMETER BODY ASTM A449 ROUND HEAD BOLTS INSPIRED THROUGH THE FACE OF THE TUBE. HOLES IN POSTS SHALL BE 1/16" LARGER THAN THE BOLT SIZE.
9. ANY BENDING OR CURVING OF RAIL SHALL BE DONE IN A FABRICATION PLANT IN ACCORDANCE WITH SUBMITTED PROCEDURES.
10. THE MINIMUM DISTANCE FROM A POST TO AN EXPANSION JOINT SHALL BE SUCH TO MAINTAIN MINIMUM EDGE DISTANCE OF 6" FROM ANY ANCHOR STUD TO THE END OF THE SLAB, OR TO THE EXPANSION JOINT (ACCESS POINT, IF ONE IS USED).
11. A DEFINATOR (SEE VACT STANDARD DRAWING S-1 FOR DETAILS) SHALL BE INSTALLED AT NEAREST POST TO 30 FT SPACING, WHILE IS TO BE INSTALLED ON THE DRIVER'S RIGHT. FOR ONE WAY BRIDGES, ALLOWANCE TO BE INSTALLED ON THE DRIVER'S LEFT. DEFINATOR SHALL BE INCIDENTAL TO OTHER ITEMS.
12. THIS RAILING MEETS THE REQUIREMENTS FOR A "C-4" SERVICE LEVEL.

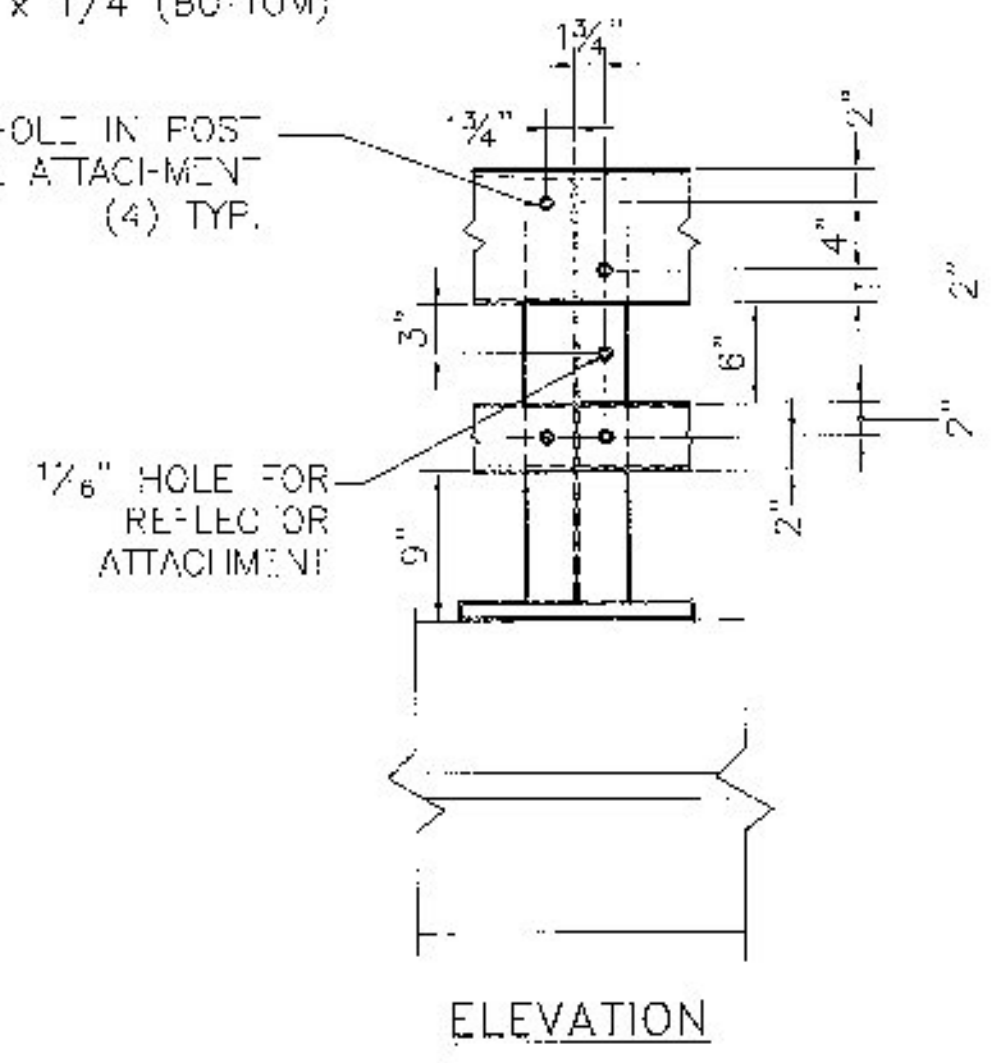
- MATERIALS**
- RAIL TUBES.....ASTM A500 GRADE B OR ASTM A501
 - RAIL POSTS AND BASE PLATES.....ASTM A709/A709M, GRADE 50
 - ALL OTHER SLABS AND PLATES.....ASTM A709/A709M, GRADE 50
 - ANCHOR STUDS.....ASTM A449
 - ALL OTHER BOLTS (UNLESS NOTED).....ASTM A193, TYPE 1
 - NUTS FOR ANCHOR STUDS AND FOR ANCHOR STUDS SHALL COMPLY WITH ASTM A563.
 - WASHERS SHALL COMPLY WITH ASTM A563 (ASTM F436) SPECIFICATIONS.
 - 1/8" PAD SHALL COMPLY WITH STANDARD SPECIFICATION SUBSECTION 731.01 OR 731.02.
 - RAIL POSTS AND BASE PLATES SHALL BE TESTED FOR IMPACT PROPERTIES IN ACCORDANCE WITH ASTM A370 CHARPY IMPACT TESTING USING TYPE A SPECIMEN.



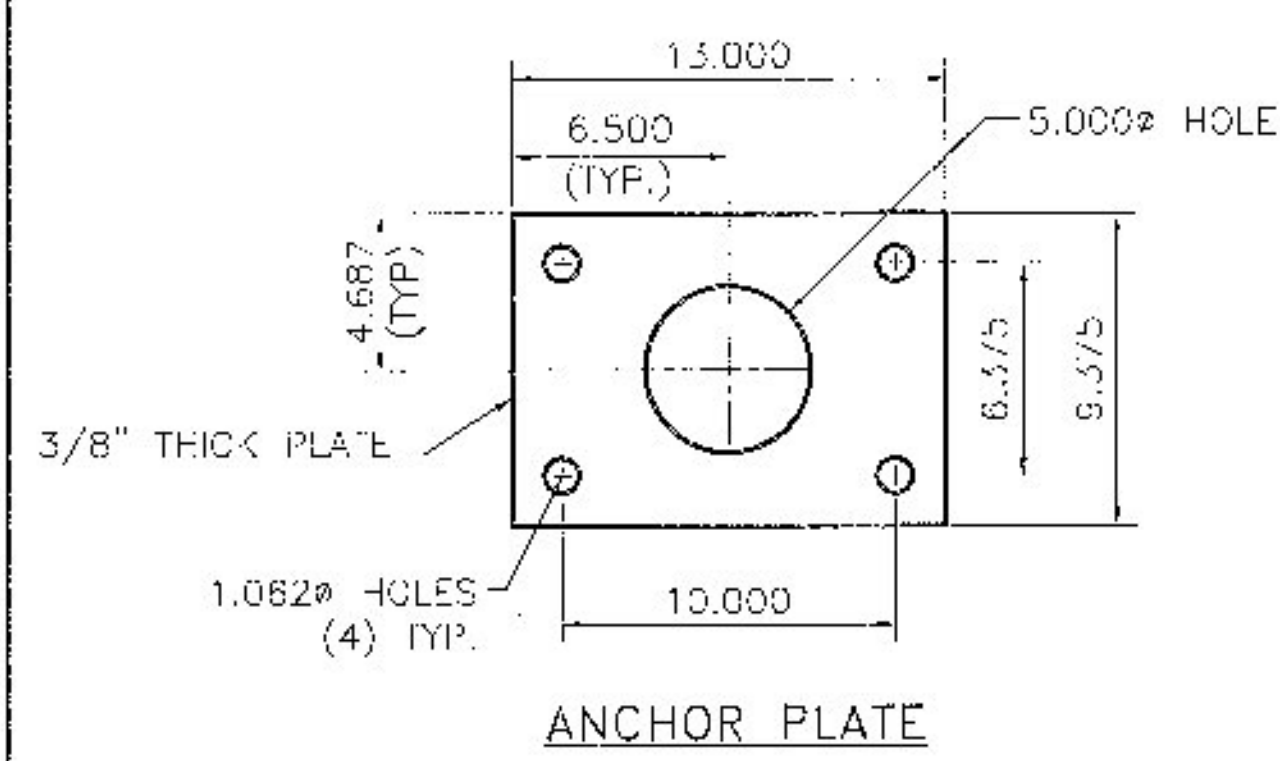
3/4" DIA. A449 ROUND HEAD BOLT
(WITH WASHER AND PREVAILING TORQUE TYPE LOCK NUT)
(SEE NOTE #8)
ONLY FULL DIAMETER BODY BOLTS WILL BE ALLOWED.



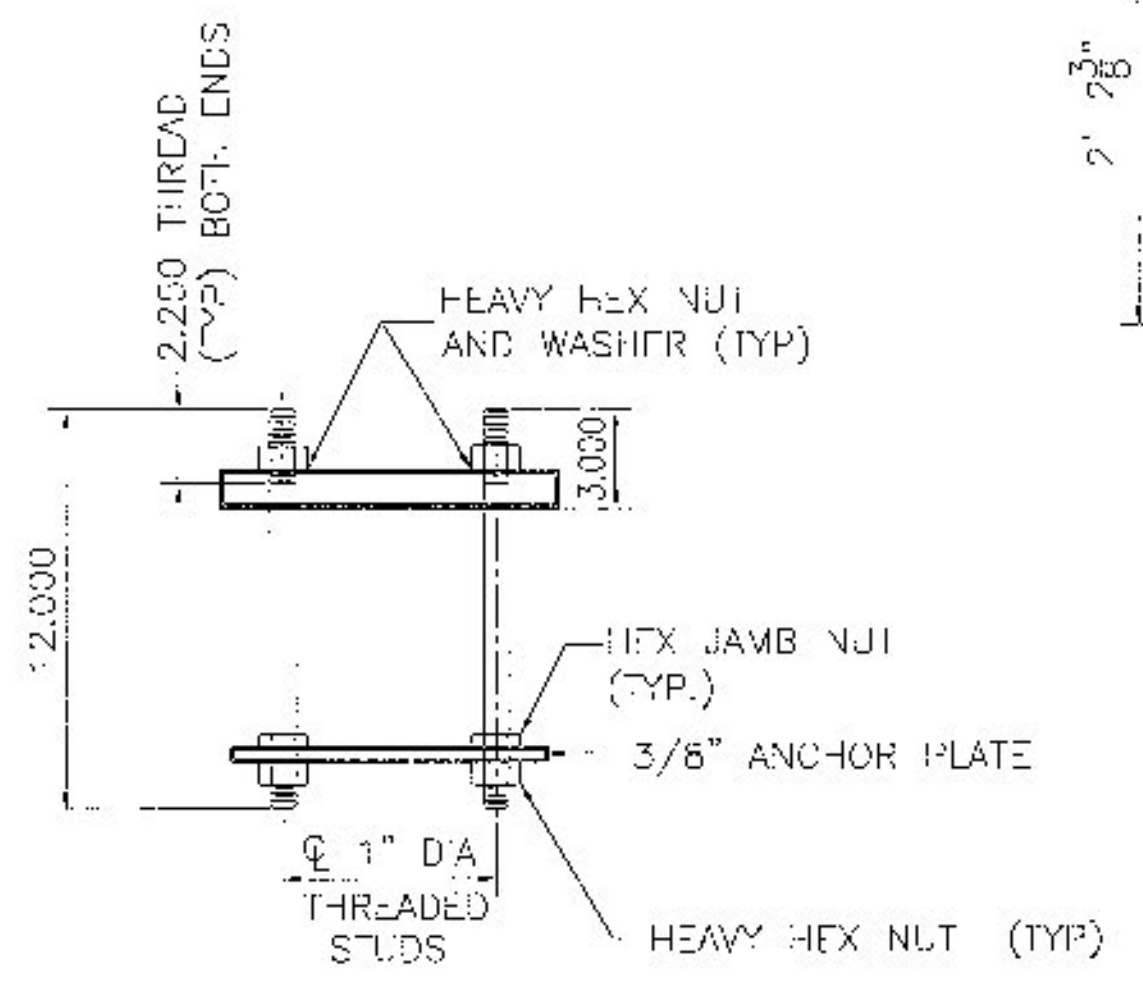
TYPICAL SECTION



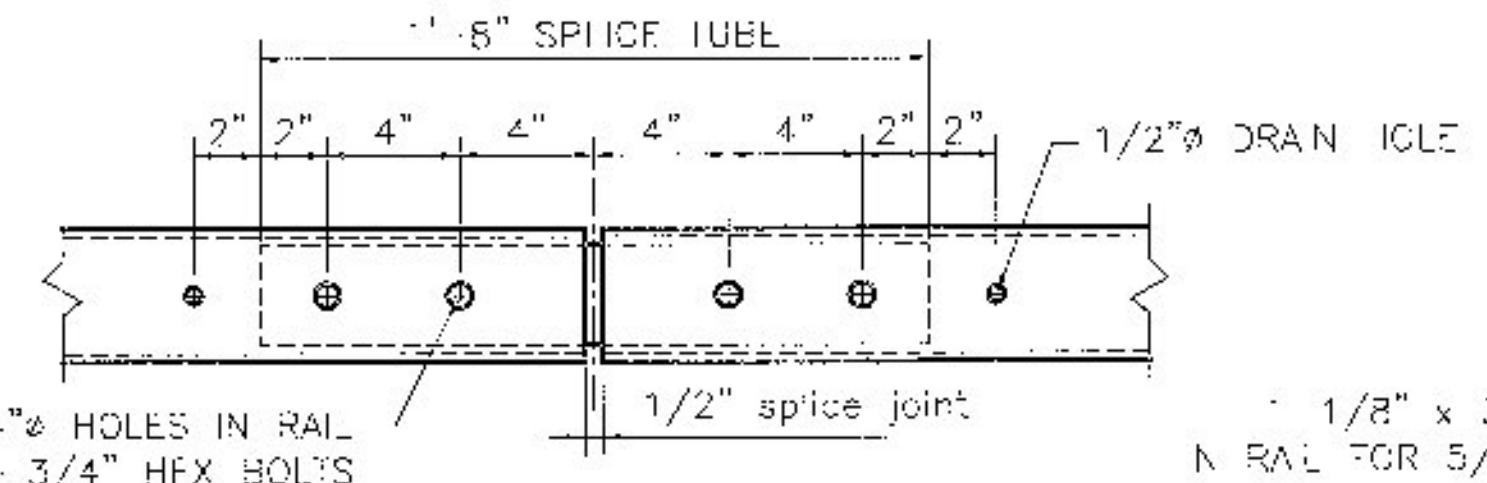
ELEVATION



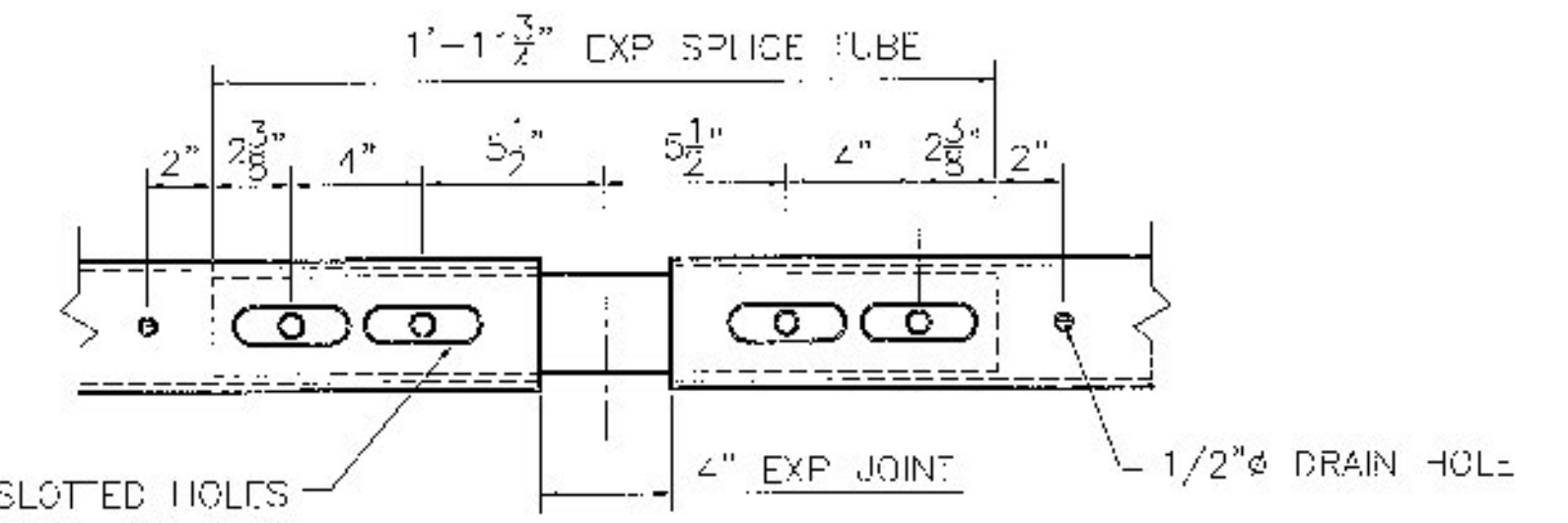
ANCHOR PLATE



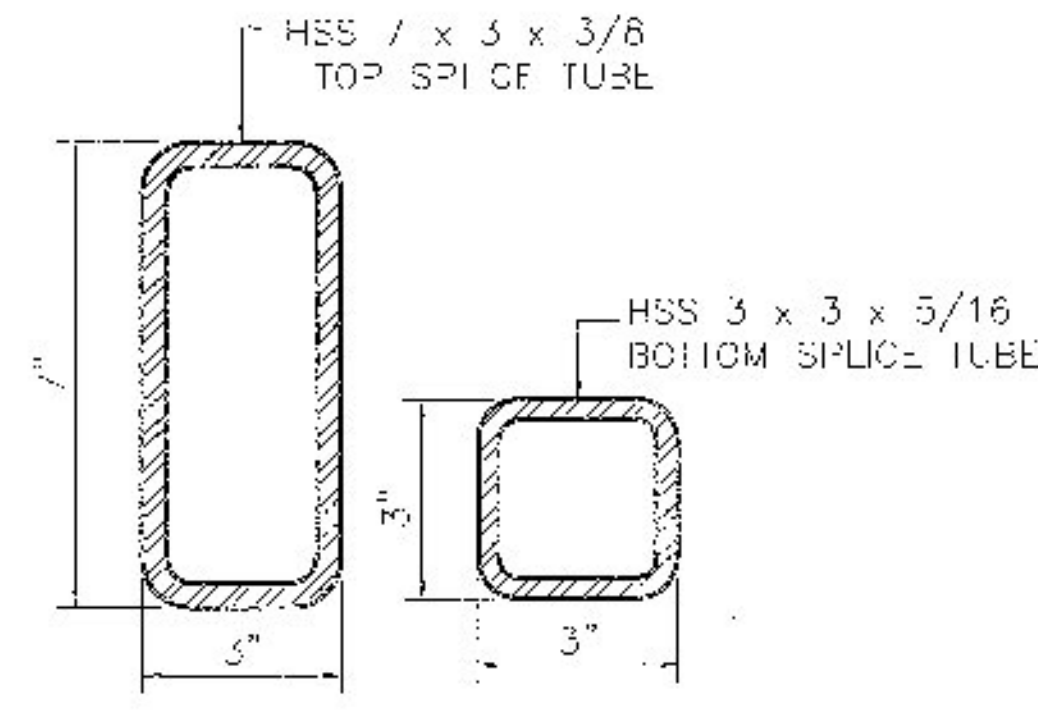
RAIL POST ANCHORAGE



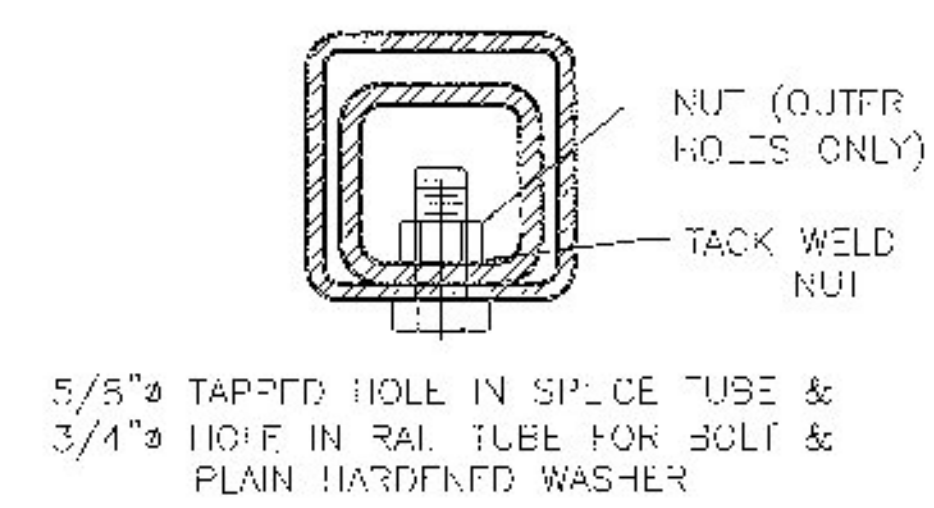
FIXED SPLICE JOINT DETAIL
BOTTOM VIEW



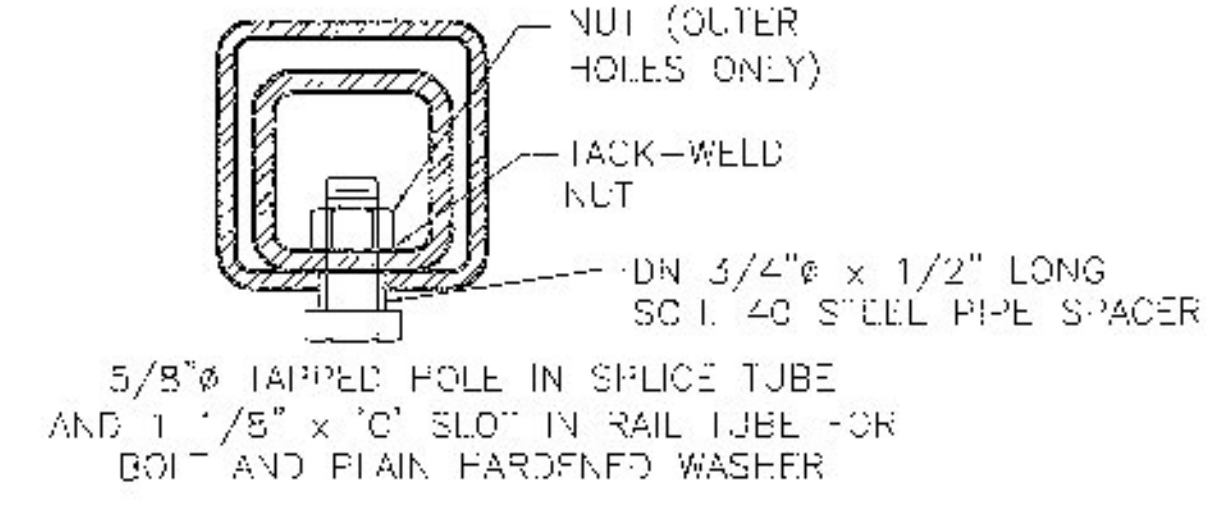
EXPANSION SPLICE DETAIL
BOTTOM VIEW



RAIL TUBE SPLICE SECTION



FIXED SPLICE JOINT SECTION



EXPANSION JOINT SECTION

HIGHWAY SAFETY CORP
GLASTONBURY, CT
860-653-9445

ITEM 525.33 BRIDGE RAILING, GALVANIZED RAIL BOX BEAM (S-300A)

TOWN OF HYDE PARK, VERMONT
VT. ROUTE 15 (MAJOR ARTERIAL) BRIDGE #42
LAMOILLE COUNTY STP CULV(26)

CERTIFIED FABRICATOR

REC JOB NO. 2001
SHEET NO. 2 of 3

DESIGNED BY: MKT
DATE: 07-14-14
SCALE: NONE