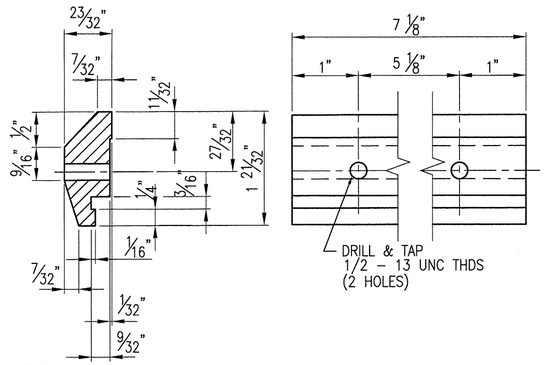
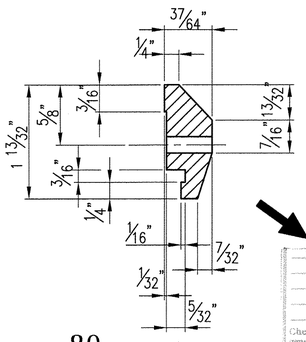






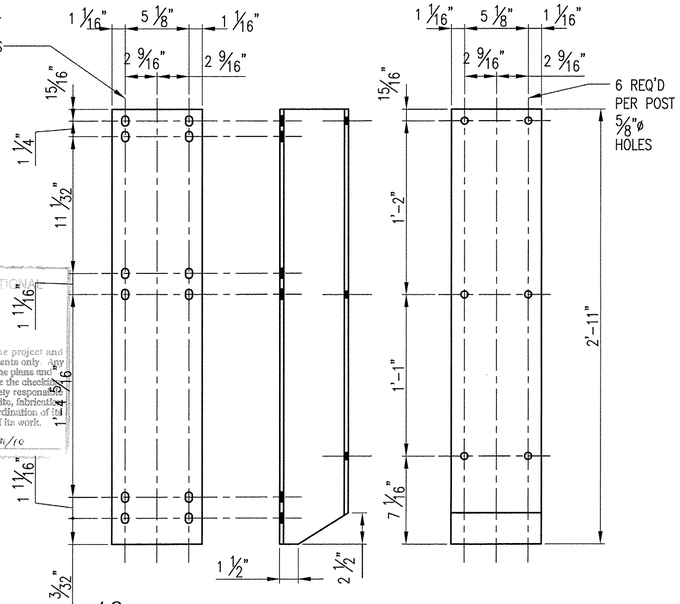
160 ~ REQ'D CLAMP
BAR CB-03-A #19447
(BARRIER RAIL)




80 ~ REQ'D CLAMP
BAR CB-01-H #19439
(HANDRAIL)

ANODIZED
(SEE LB1 FOR SPECIFICATIONS)

Checking is for general compliance with the design concept of the project and general compliance with the information in the contract documents only. Any action shown is not an approval and does not relieve the contractor from compliance to the requirements of the plans and specifications. Any action shown on a specific item shall not indicate the checking of an assembly of which the item is a component. Contractor is solely responsible for: dimensions which shall be confirmed and correlated at the job site, fabrication processes, techniques of construction, safety precautions; and coordination of the work with that of all other trades and the satisfactory performance of its work.
Reviewed By: Shantz Keller Date: 3/3/10




40 ~ REQ'D OFFSET BLOCK 'OB' H-SECTION DETAIL

## GENERAL NOTES

ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006 AND ITS LATEST REVISIONS.

| DESCRIPTION | ASTM | ALLOY/GR. | REMARKS |
|---|---|---|---|
| RAILS, POSTS, BASES, SPLICES, CLAMP BARS, PINS, | B221 | 6061-T6 OR 6351-T5 | MIN. YIELD STRENGTH Fy = 240 MPa (35,000 psi.) |
| RIVETS | B316 | 6061-T6 | BUTTON HD., CONE PT. COLD DRIVEN |
| OFFSET BLOCKS (H-SECT.) | B308 | 6061-T6 | |
| STAINLESS STEEL BOLTS | A193 | GRADE B8 | |
| STAINLESS STEEL HEX NUTS | A276 | TYPE 304 | |
| STAINLESS WASHERS | A276 | TYPE 304 | |
| ANCHOR RODS | A449 | | GALV. A153 |
| STEEL HEX NUTS | A563 | GRADE DH | GALV. A153 |
| STEEL WASHERS | F436 | | GALV. A153 |
| ANCHOR PLATES | A569 | | COMMERCIAL QUALITY (PLAIN) |
| ALUMINUM WASHERS | B209 | 6061-T6 | |
| PREFORMED PADS | | | SECTION 731.01 OR 731.02 |
| BACK-UP PLATES | A36 | | GALV. A123 |
| ELECTRODES FOR WELDING | AWS A5.10 ER5356 | | |

POSTS TO BE NORMAL TO GRADE AND RAILS SHALL BE PARALLEL TO GRADE.
RAILS TO BE ATTACHED TO A MINIMUM OF THREE POSTS WHEN POSSIBLE.

ALL RAILS AND WELDS TO BE FREE FROM ALL BURRS AND ROUGH EDGES.
ENDS OF TUBE SECTIONS SHALL BE SAWED OR MILLED.
GRIND ALL CUT EDGES SMOOTH.

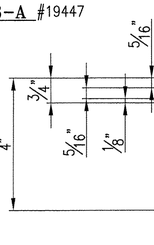
ALL THREADS TO BE UNC CLASS 2A/2B.

ALL EXTRUSION TOLERANCES NOT SHOWN SHALL BE IN ACCORDANCE WITH ASTM B221.

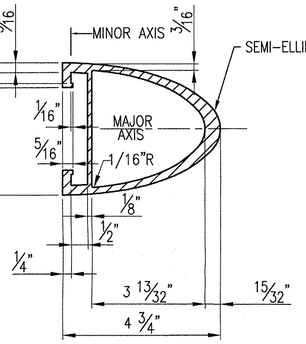
IF CUT THREADS ARE USED, BOLT DIAMETER SHALL NOT BE LESS THAN NOMINAL DIAMETER. IF ROLLED THREADS ARE USED, BOLT DIAMETER SHALL NOT BE LESS THAN THE ROOT DIAMETER OF THREADS

THE SPLICE BAR SHALL BE ATTACHED TO THE RAIL ELEMENT AS FOLLOWS:
THE RAIL SPLICE AT THE BRIDGE EXPANSION JOINT SHALL BE FASTENED ON BOTH SIDES OF THE RAIL SPLICE USING THE PARTIALLY THREADED BOLTS, WITH THE WASHER FACED BOLT, TIGHTENED SECURELY TO THE END OF THREADS, AND LEAVING A 1/8" GAP, THIS ALLOWS EXPANSION ON BOTH SIDES OF THE JOINT.

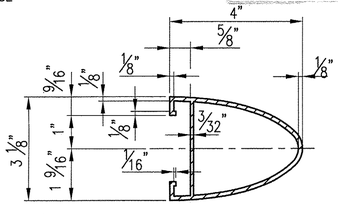
ALL NUTS SHALL COMPLY WITH AMERICAN HEXAGON ANSI SPECIFICATIONS B18.2



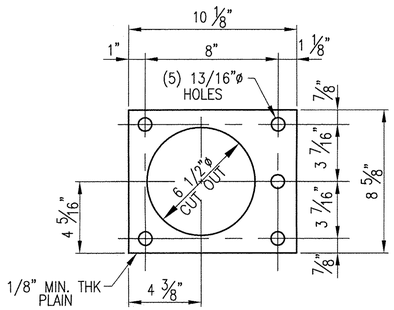

RIVET DETAIL 'rv1'
#19420



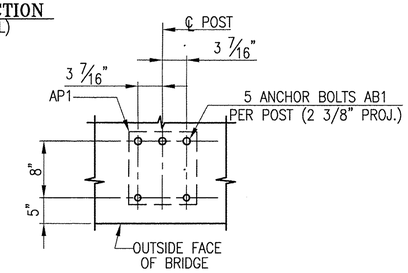

TYPICAL SECTION
(BARRIER RAIL)



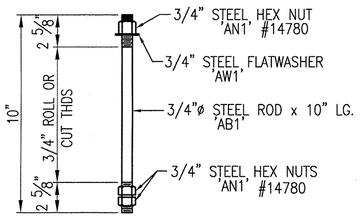

TYPICAL SECTION
(HANDRAIL)



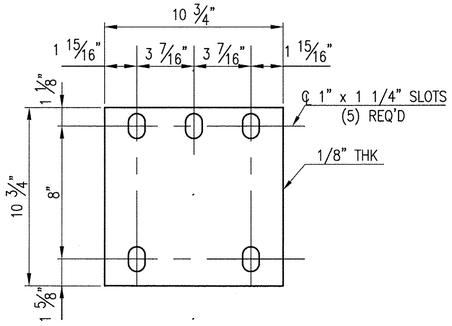

40 ~ REQ'D ANCHOR PLATE AP1
#31286



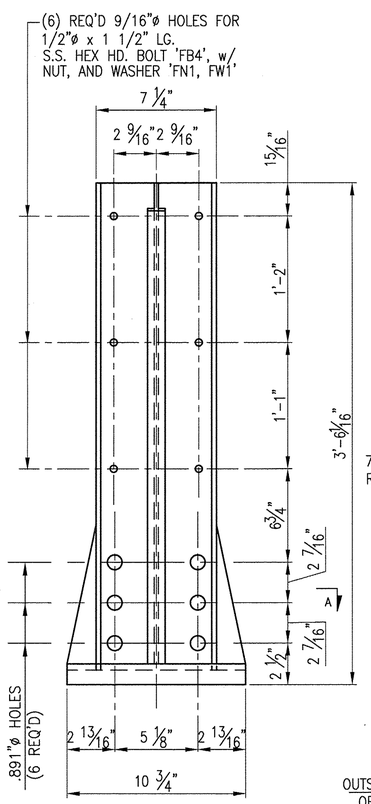

TYPICAL ANCHOR BOLT SETTING

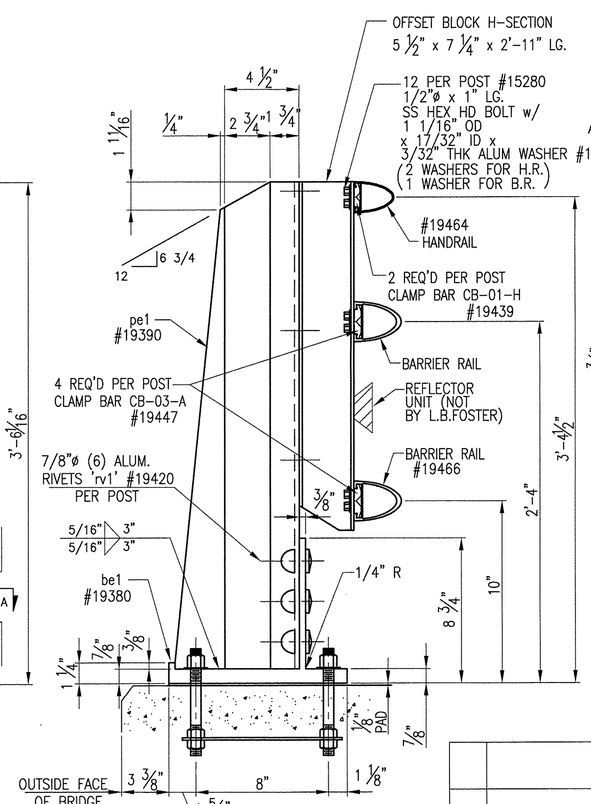



200 ~ REQ'D ANCHOR BOLTS AB1

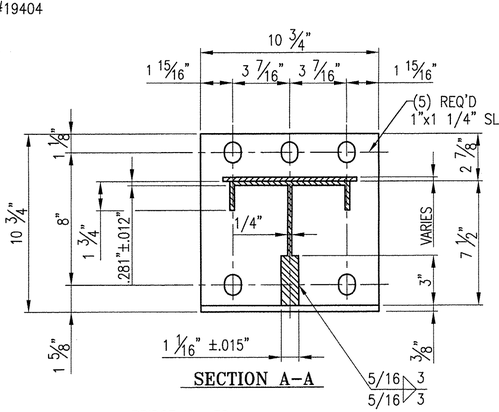



40 ~ REQ'D FABRIC PADS 'EP2'




40 ~ REQ'D FABRICATED RAIL POSTS 'PP2'
(REFLECTOR UNITS TO BE SUPPLIED & PLACED BY OTHERS)




SECTION A-A

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |

BRIDGE No. 30
PROJECT No. BHF 0283 (9) S
ITEM No: 525.225

APPROVED: _____ REC'D APPROVAL _____ DRAWING _____

L.B. FOSTER COMPANY
1016 GREENTREE ROAD
PITTSBURGH, PENNSYLVANIA 15220

FOR: A.D. ROSSI CORPORATION
VERMONT AGENCY OF TRANSPORTATION
TOWN OF BERKSHIRE, COUNTY OF FRANKLIN
3-LINE SEMI-ELLIP. ALUM. BRIDGE RAIL FOR VT RTE 118
GENERAL NOTES AND TYP DETAILS - CURBSIDE

MADE CMS DATE 02/10/10 JOB No. AR0624 CUST. No.
CHECK BLJ DATE 02/25/10 DRAWING LB2 REV. No.