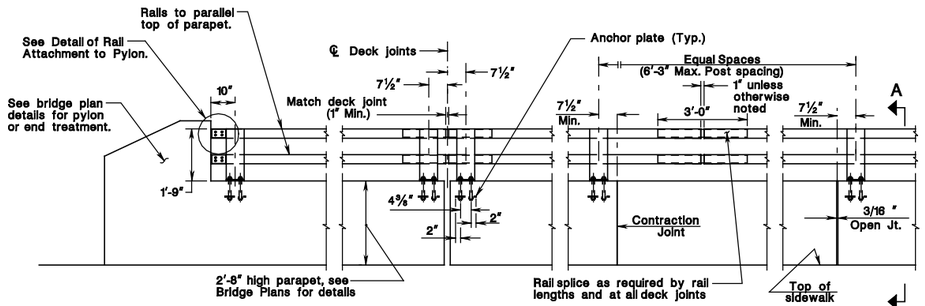
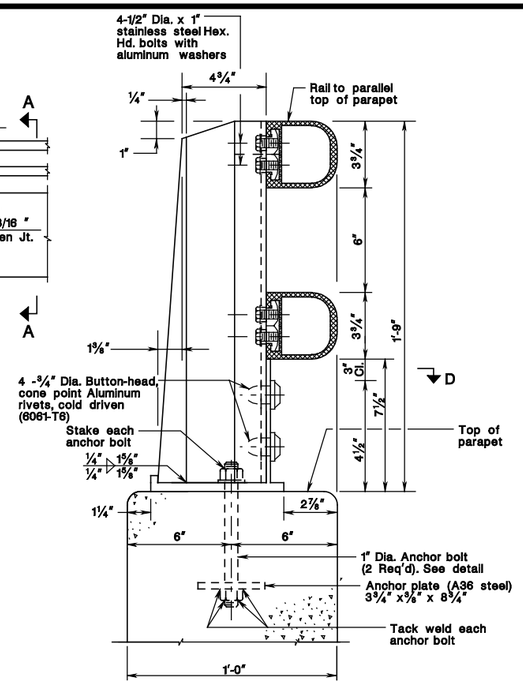
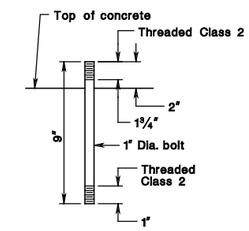


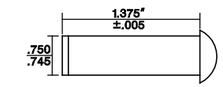
TYPICAL EXTERIOR ELEVATION OF CONTINUOUS RAILING SYSTEM



SECTION A–A



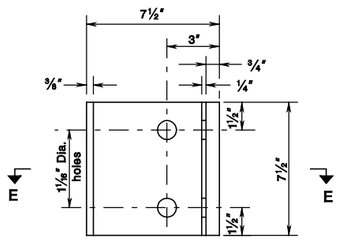
ANCHOR BOLT DETAIL



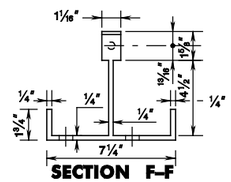
RIVET DETAIL

NOTES:

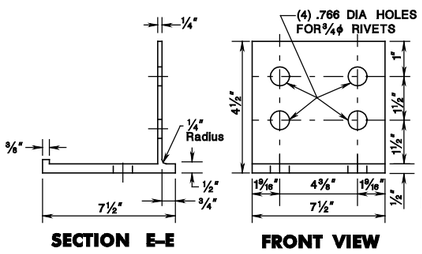
1. Use material for posts, bases, rails, and rail clamps conforming to ASTM B221. Aluminum Alloy 6061-T6.
2. Use washers conforming to ASTM B209 Alclad 2024-T3 and nuts conforming to ASTM B211, Aluminum Alloy 6061-T6.
3. Use anchor bolts conforming to ASTM A320, Type 1 Class B8.Use top nuts conforming to Aluminum thick nuts ASTM B211 Alloy 6061-T6 Class 2 thread. Use bottom nuts conforming to ASTM A194.
4. Use dam plates to close all open railing ends. Use material conforming to ASTM B209 Aluminum Alloy 6061-T6. As an alternate, drive-in end caps may be used. Use caps conforming to alluminum alloy sand mold castings complying with ASTM B26, alloy SG 356.0-T6.
5. Weld end caps to the rails.
6. Use aluminum alloy shim material for post alignment, where necessary and required by the Engineer. Use shim material conforming to ASTM B209,Alloy 1100-0.
7. Paint underside of base with a heavy coat of non-aluminum epoxy mastic primer.
8. Ensure that all anchor bolt holes and spaces between base plates and concrete are thoroughly caulked with a cold-poured joint sealer conforming to subsection 914.02 of NJDOT Standard Specifications,joint material ASTM D 5893, type NS.



TOP VIEW



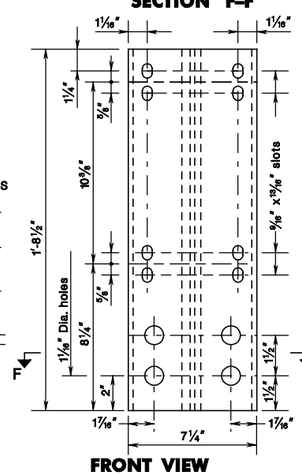
SECTION F–F



SECTION E–E

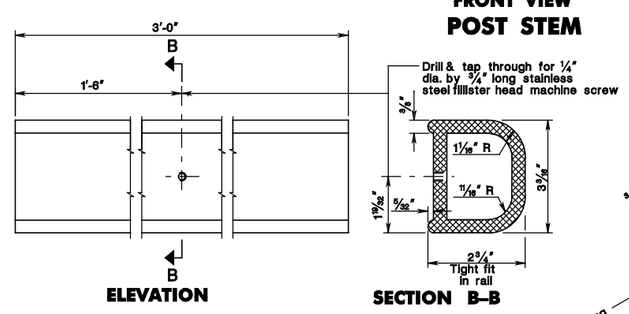
FRONT VIEW

POST BASE



FRONT VIEW

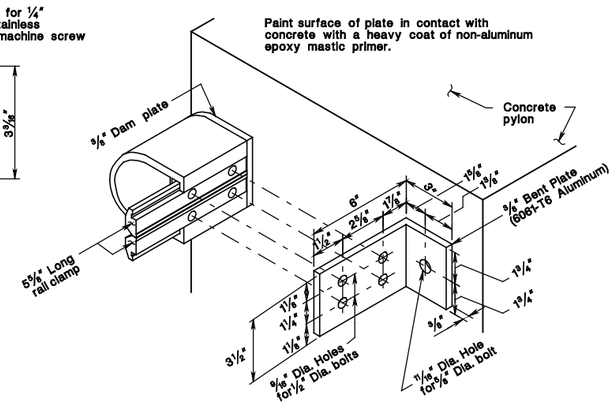
POST STEM



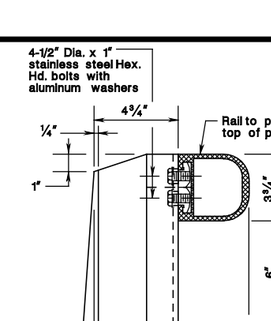
ELEVATION

SECTION B–B

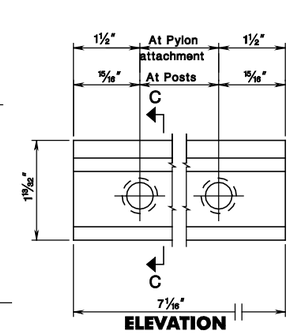
DETAIL OF RAIL SPLICE



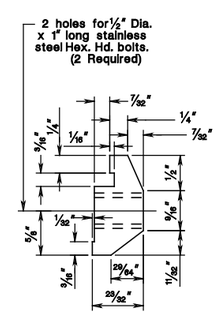
DETAIL OF RAIL ATTACHMENT TO PYLON



SECTION D–D

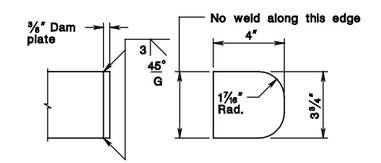


ELEVATION

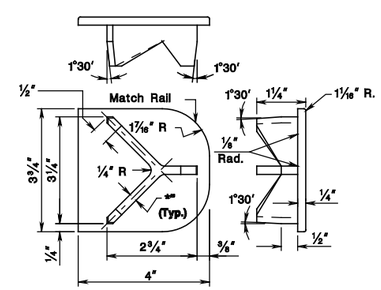


SECTION C–C

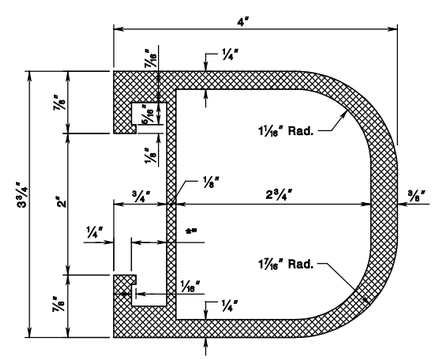
DETAILS OF RAIL CLAMP



DAM PLATE DETAIL



ALTERNATE DETAIL – END CAP



SECTION THROUGH RAIL

2–RAIL ALUMINUM RAILING (FOR USE ON NON–NHS BRIDGES ONLY)

N.T.S.

BCD-509-5

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

BRIDGE CONSTRUCTION DETAILS

BCD-509-5.1

BDC-RID-01-ORIGINAL SHEET
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