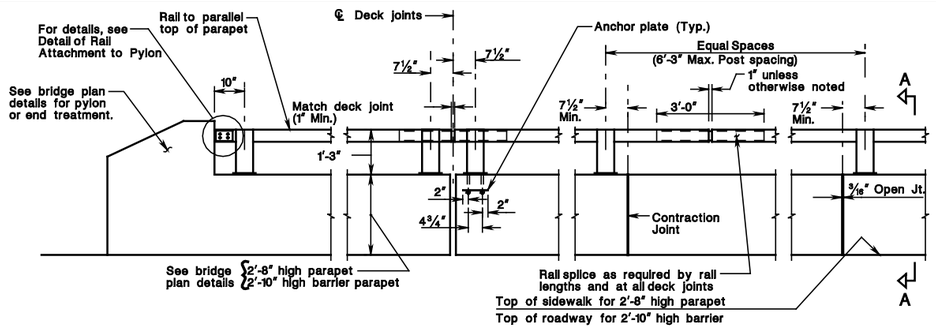
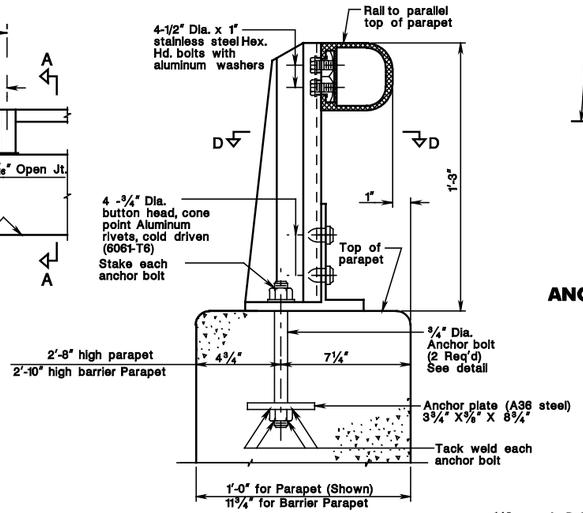
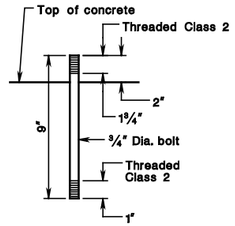


TYPICAL EXTERIOR ELEVATION OF CONTINUOUS RAILING SYSTEM



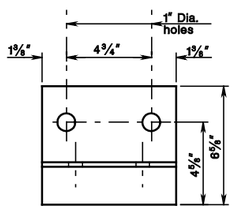
SECTION A–A



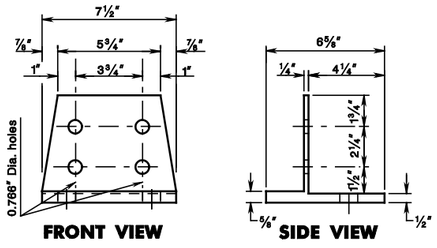
ANCHOR BOLT DETAIL

GENERAL NOTES

1. Material for posts, bases, rails, and rail clamps shall be ASTM B221, Aluminum Alloy 6061-T6.
2. Washers shall be ASTM B209 Alclad 2024-T3 and nuts shall be ASTM B211, Aluminum Alloy 6061-T6.
3. Anchor bolts shall be ASTM A276 stainless steel, Type 302, Type 304 or Type 430. Top nuts shall be Aluminum thick nuts ASTM B211 or B316 Alloy 6061-T6 Class 2 thread. Bottom nuts shall be ASTM A325.
4. Dam Plates shall be used to close all open railing ends. Material shall be ASTM B209 Aluminum Alloy 6061-T6. As an alternate, drive-in end caps may be used. Caps shall be alluminum alloy sand mold astings complying with ASTM B26, Alloy SG 356.6-T6.
5. End caps shall be welded to the rails.
6. Where necessary for post alignment, Aluminum Alloy shim material shall be used where required by the Engineer. Shim material shall be ASTM B209, Alloy 1100-0.
7. Paint underside of base with a heavy coat of Non Aluminum Epoxy Mastic Primer.
8. All anchor bolt holes and spaces between base plates and concrete shall be thoroughly caulked with a cold-poured joint sealer conforming to Subsection 914.02 of NJDOT Standard Specifications, Joint Material ASTM D 5893, Type NS.

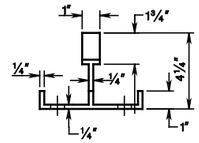


TOP VIEW

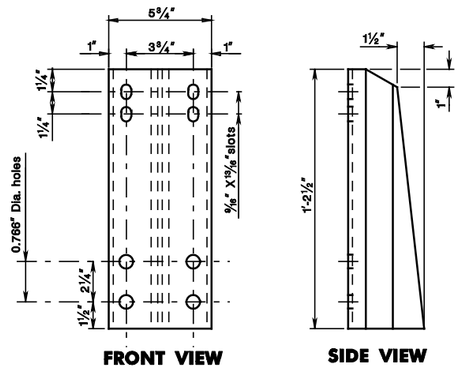


FRONT VIEW **SIDE VIEW**

POST BASE

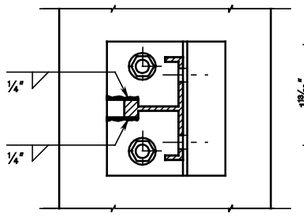


TOP VIEW

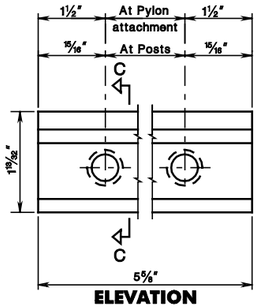


FRONT VIEW **SIDE VIEW**

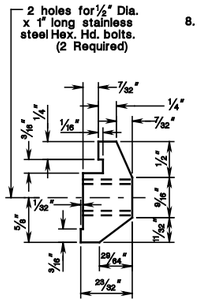
POST STEM



SECTION D–D

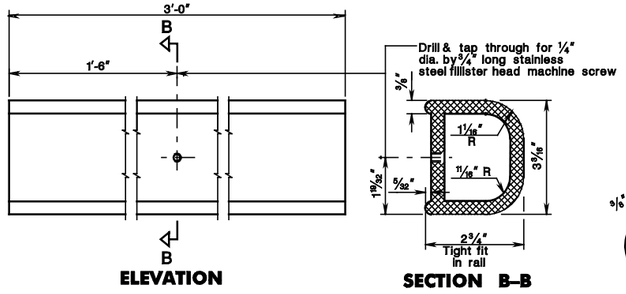


ELEVATION



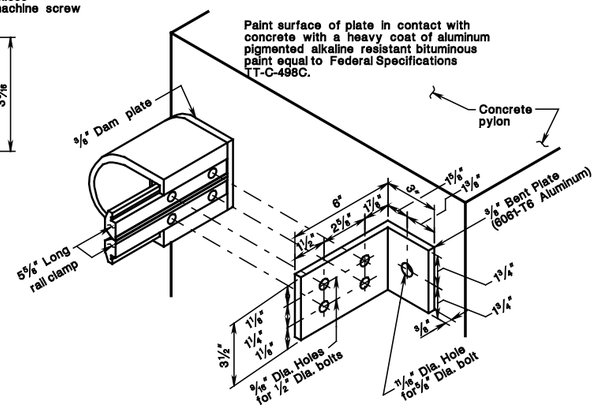
SECTION C–C

DETAILS OF RAIL CLAMP

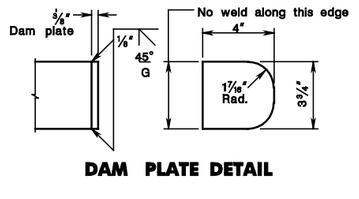


ELEVATION **SECTION B–B**

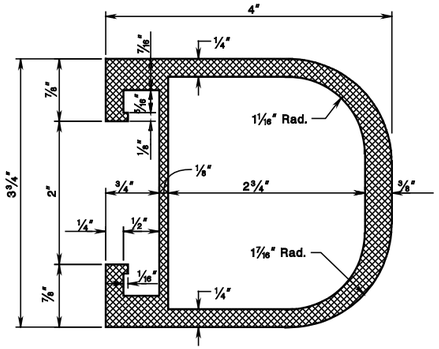
DETAIL OF RAIL SPLICE



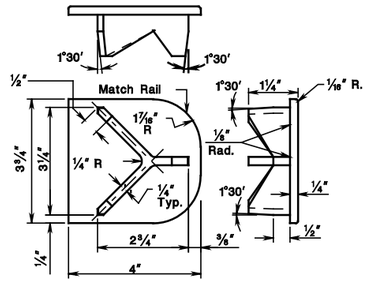
DETAIL OF RAIL ATTACHMENT TO PYLON



DAM PLATE DETAIL



SECTION THRU RAIL



ALTERNATE DETAIL – END CAP

1–RAIL ALUMINUM RAILING

N.T.S.

BCD-509-3.1

BCD-509-3

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

BRIDGE CONSTRUCTION DETAILS

141
146

STATE	FEDERAL PROJECT NO.	SHEET	TOTAL SHEETS
N. J.			

STRUCTURE NO.

STRUCTURE NAME

BDCRDD.01 (NOTE 7 & 8)
REVISED ORIGINAL 3 SHEET

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