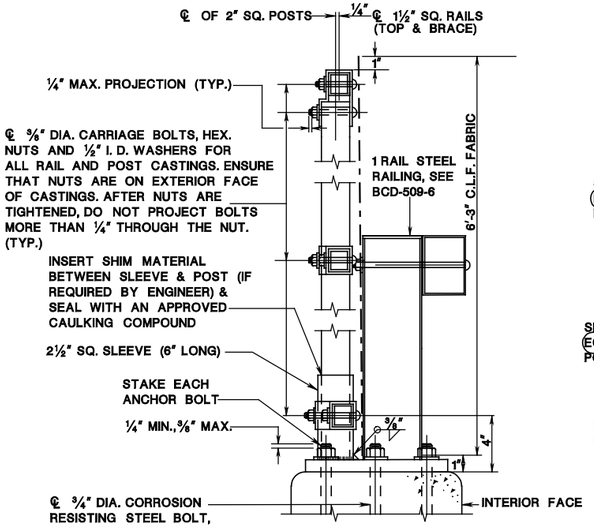
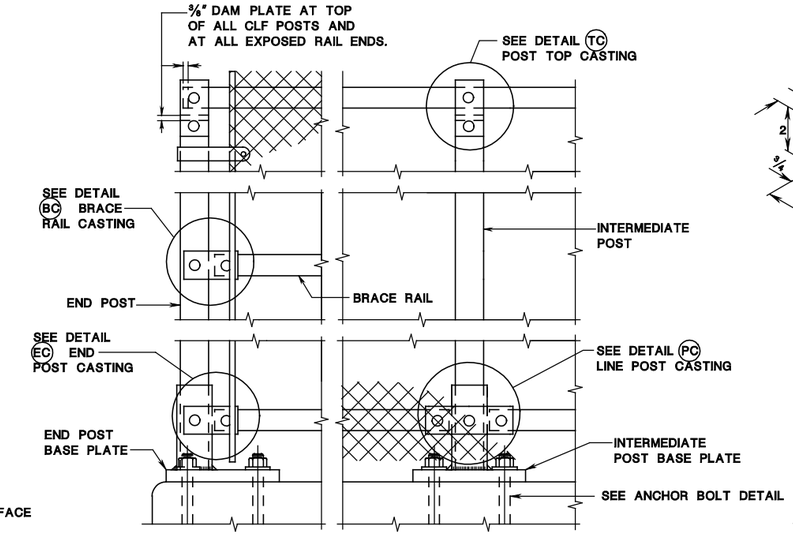
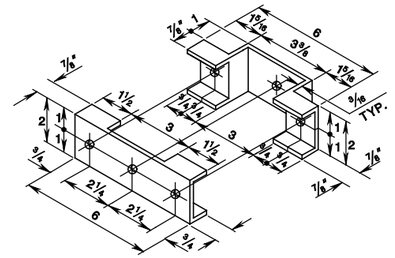


SECTION: B–B

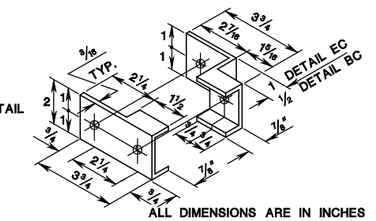


PART INTERIOR ELEVATION OF CHAIN–LINK FENCE

(RAILING NOT SHOWN FOR CLARITY)



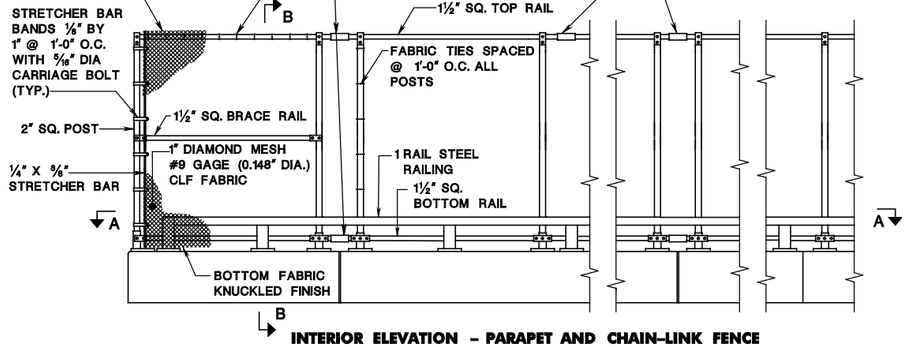
DETAIL (PC)



DETAIL (EC) & DETAIL (BC)

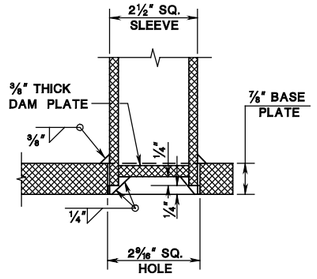
NOTES:

1. CONFORM MATERIALS FOR CHAIN-LINK FENCE (CLF) FABRIC, BASE PLATES, ANCHOR PLATES, POSTS, RAILS, TIES, BANDS, BARS, RODS AND ANY OTHER FITTINGS, AND HARDWARE TO AASHTO M181 AND COMPOSED OF ONE OF THE FOLLOWING TYPES OF MATERIAL, AS SPECIFIED:
   TYPE I – ZINC-COATED STEEL,
   TYPE II – ALUMINUM COATED STEEL,
   TYPE III – ALUMINUM ALLOY, AND
   TYPE IV – POLYVINYL CHLORIDE (PVC) COATED STEEL.
2. CONFORM ALL WELDING TO AWS D1.1 FOR STEEL AND AWS D1.2 FOR ALUMINUM.
3. IF ALUMINUM CASTINGS ARE USED WITH TYPE I, TYPE II OR TYPE IV FENCE, USE PVC COATED. MATCH COLOR TO THE REST OF THE FENCE COMPONENTS.
4. IF TYPE III FENCE IS USED, PROVIDE 1/8" THICK NEOPRENE PAD BETWEEN BASE PLATE AND TOP OF CONCRETE PARAPET.
5. CONFORM STAINLESS STEEL WASHER TO ASTM F436, TYPE 1 AND GALVANIZED.
6. CONFORM ANCHOR BOLTS TO ASTM F1554, GRADE 55 AND GALVANIZED. TIGHTENING PROCEDURE TO FOLLOW AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
7. USE 2 ½" SQUARE AND 6" LONG POST SLEEVES. USE 7/32" THICK WALL FOR ALUMINUM AND 3/16" FOR STEEL.
8. POSTS SPACINGS NOT TO EXCEED 6'-0".
9. USE 2" SQ., 1/4" THICK POSTS, SET PLUMB.
10. USE SHIM MATERIAL WHERE NECESSARY FOR POST ALIGNMENT.
11. USE 1 1/2" SQ., 1/8" THICK, HORIZONTAL RAILS (TOP, BOTTOM, AND BRACE).
12. WELD DAM PLATES (3/8" THICK) TO CLOSE ALL EXPOSED ENDS OF RAIL TUBES AND TOP OF CHAIN-LINK FENCE POSTS.
13. INSTALL BRACE RAILS AT END UNITS WHERE CLF FABRIC IS TENSIONED.
14. USE 2" SQ. X 7" LONG, RAILING EXPANSION SLEEVES, WITH HOT-DIP GALVANIZED SPRING IN SLEEVE, SPRING NOT TO EXCEED 1 1/2" FULLY COMPRESSED. ENSURE THAT THE RAIL ENDS 3" APART IN SLEEVE AT CENTER LINE SLEEVE "V" CRIMP.
15. USE #9 GAGE (0.148" DIA.) FABRIC TIES. A MINIMUM OF ONE (1) COMPLETE TURN IS REQUIRED AT ENDS OF ALL TIES.
16. USE #9 GAGE (0.148" DIA.) CLF FABRIC, HAVING A 1" DIAMOND MESH, TOP AND BOTTOM SELVAGE IS KNUCKLED. CONTINUE FABRIC ACROSS ALL JOINTS.
17. ENSURE THAT STRETCHER BAR BAND FASTENERS ARE 5/16 " DIA. BY 1 1/4 " CARRIAGE BOLTS.
18. STAKE EACH ANCHOR BOLT AT ONE (1) POINT ONLY.
19. ENSURE THAT ALL HOLES IN CASTINGS ARE 7/16" DIA. DESIGN ALL CASTINGS TO ACCOMMODATE RAILS AT GRADES, AS REQUIRED.
20. AFTER ERECTION, CAULK ALL ANCHOR BOLT HOLES AND SPACES BETWEEN BASE PLATE AND CONCRETE WITH A COLD-POURED JOINT SEALER CONFORMING TO SUBSECTION 914.02 OF NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JOINT MATERIAL ASTM D5893, TYPE NS.
21. AFTER ERECTION OF POSTS, DRILL 3/8 " DIA. HOLE THROUGH POST SLEEVE AND POST, 1/2 " ABOVE BASE PLATE FOR DRAINAGE. LOCATE HOLE PARALLEL TO FENCING. IF TYPE I, TYPE II OR TYPE IV FENCE IS USED, APPLY CORROSION PROTECTIVE COATING OVER DRILLED HOLES IN ACCORDANCE WITH ASTM A780.
22. PROVIDE WING AT BOTH ENDS OF PARAPET / FENCE AS SHOWN ON BCD-509-3.

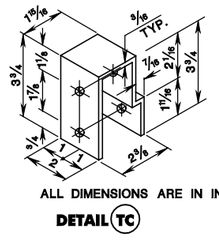


INTERIOR ELEVATION – PARAPET AND CHAIN–LINK FENCE

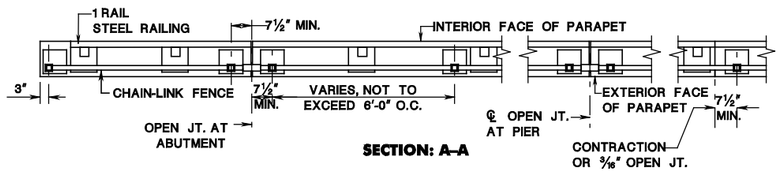
Scale: ½"=1'-0"



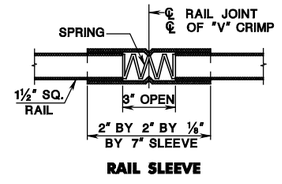
DETAIL OF SLEEVE ATTACHMENT



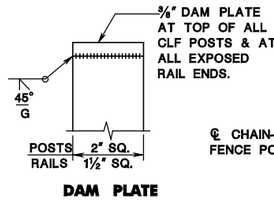
DETAIL (TC)



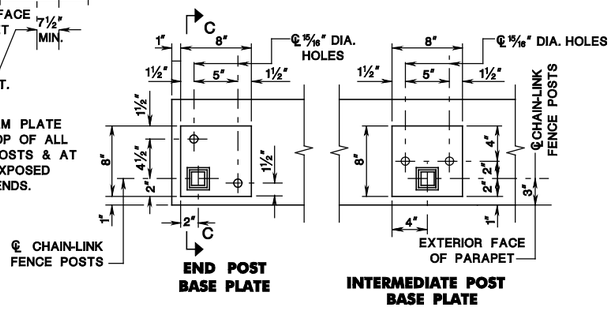
SECTION: A–A



RAIL SLEEVE

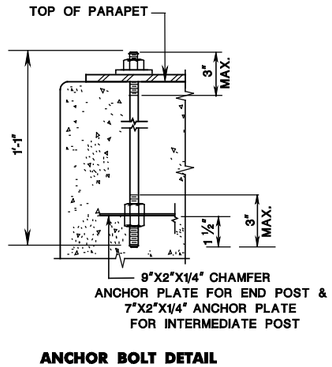


DAM PLATE



END POST BASE PLATE

INTERMEDIATE POST BASE PLATE



ANCHOR BOLT DETAIL

TEST LEVEL 4
BCD-509-2.1

CHAIN–LINK FENCE, BRIDGE 6'–3" HIGH

N.T.S.

BCD-509-2

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

BRIDGE CONSTRUCTION DETAILS

142
164

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