

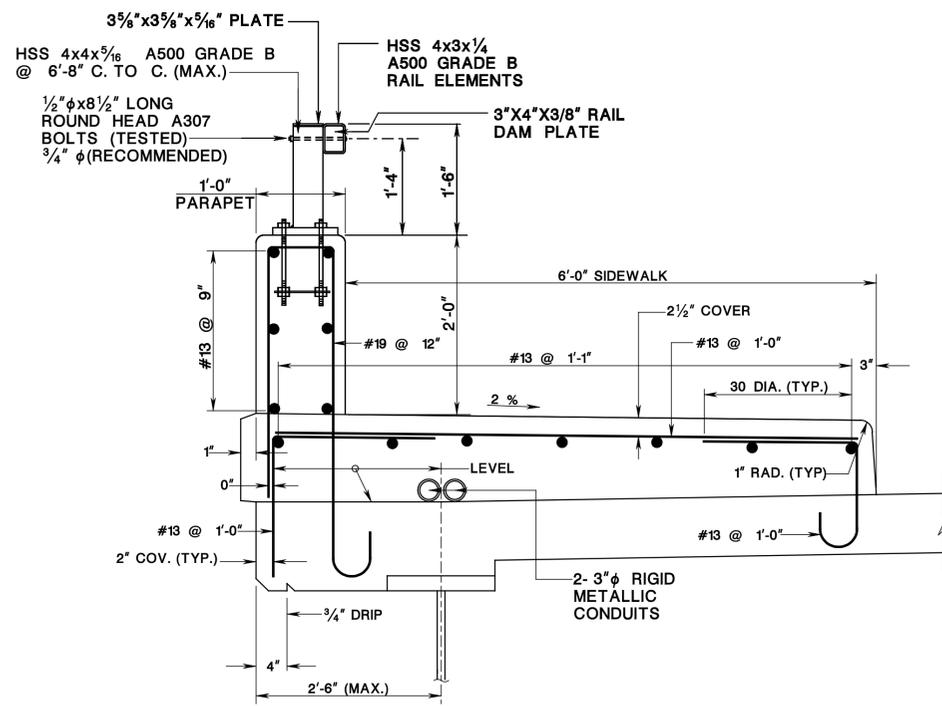
INDEX FOR STANDARD BRIDGE CONSTRUCTION DETAILS

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BDC17D-01-TITLE CHANGE BCD-507-3.1,3.2 & 507-4.2
 BDC16D-01-ORIGINAL SHEET

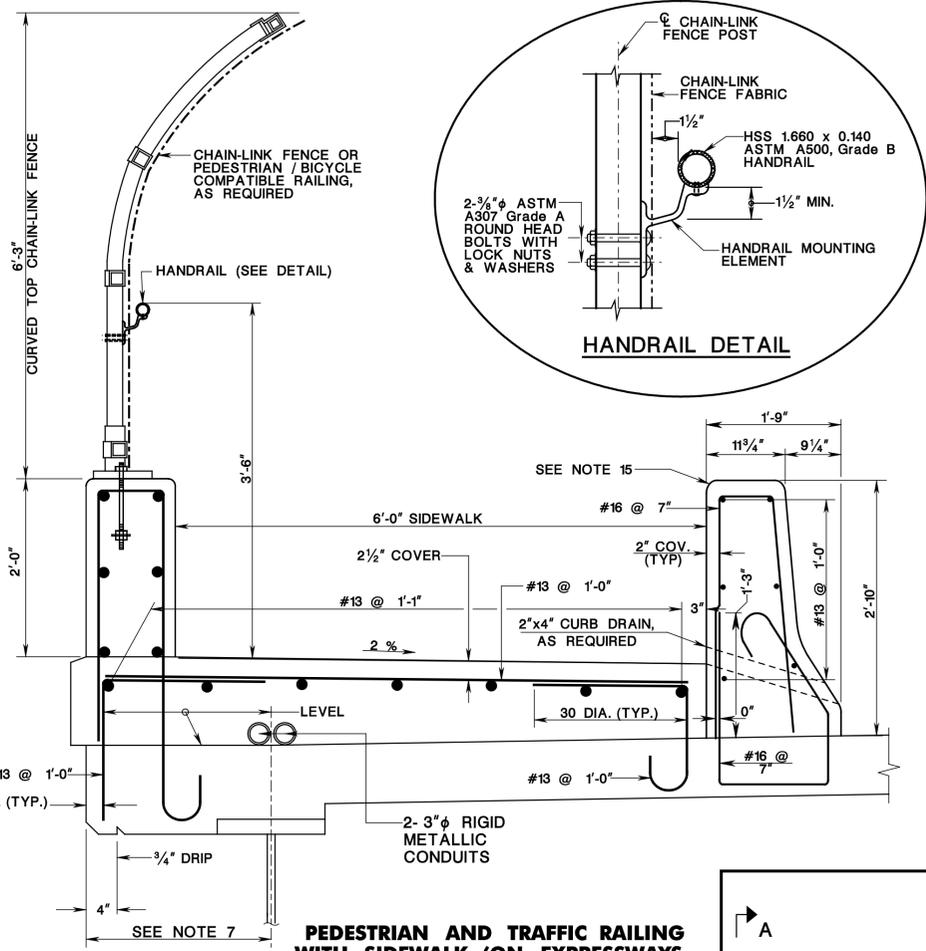
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 BCD-507-3.1 & 507-3.2
 BCD-507-3.1 ORIGINAL SHEET



2'-0" PARAPET AND RAILING WITH SIDEWALK

TEST LEVEL 4
BCD-507-3.1

TEST LEVEL 4
BCD-507-3.2

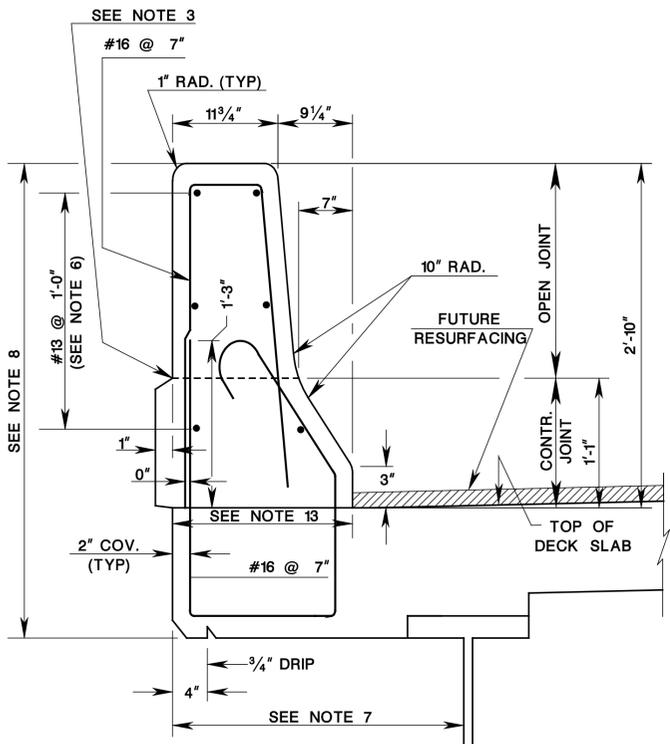


PEDESTRIAN AND TRAFFIC RAILING WITH SIDEWALK (ON EXPRESSWAYS FOR SPEEDS IN EXCESS OF 45 MPH)

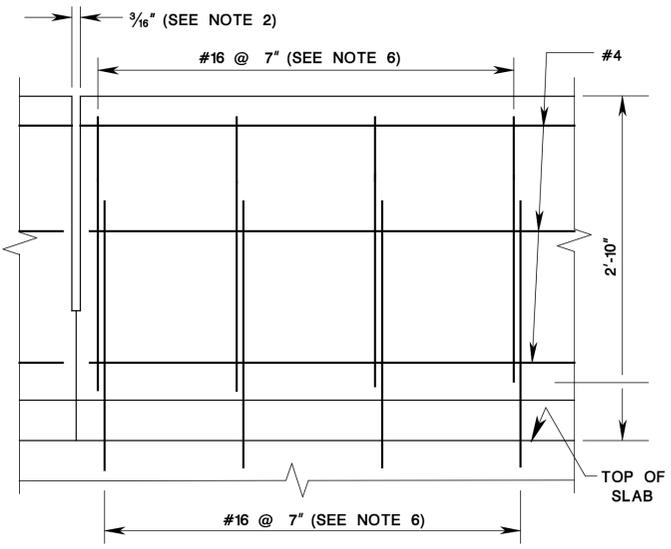
NOTES:

- REFER TO BRIDGE PLANS FOR CURB HEIGHT. REFER TO CD-607-2.5 FOR LINEAR CURB HEIGHT TRANSITION.
- PROVIDE 3/16" OPEN DEFLECTION JOINT IN PARAPETS AT INTERVALS NOT EXCEEDING 20'-0" AND CONTRACTION JOINTS AT THE MIDPOINT BETWEEN THE OPEN JOINTS.
- TERMINATE THE 3/16" OPEN JOINT AT THE LINE INDICATED AND PROVIDE A CONTRACTION JOINT BELOW THAT LINE.
- PROVIDE CONTRACTION JOINTS IN SIDEWALKS AT LOCATIONS OF 3/16" OPEN PARAPET DEFLECTION JOINTS.
- PROVIDE FULL DEPTH JOINTS AT LOCATION OF TRANSVERSE DECK JOINTS. THE FULL JOINT OPENING WIDTH TO EQUAL THE TRANSVERSE DECK JOINT OPENING WIDTH.
- ENSURE THAT ALL REINFORCEMENT STEEL IN PARAPET AND SIDEWALK IS CORROSION PROTECTED.
- PREFERRED MAXIMUM OVERHANG 2'-6". PERMANENT METAL STAY-IN-PLACE FORMS NOT PERMITTED IN THIS AREA.
- FASCIA RUSTICATION AND CONFIGURATION AS PER NJDOT STANDARD SPECIFICATIONS.
- AS AN OPTION, THE CONTRACTOR MAY ELIMINATE SPLICES AT EACH END OF THE TOP TRANSVERSE REINFORCEMENT STEEL IN SIDEWALKS BY PROVIDING A SINGLE BAR OF THE SAME CONFIGURATION WITH HOOKS AT EACH END, EMBEDDED IN THE DECK SLAB.
- IF CONDUITS ARE USED WITHIN THE PARAPET, PROVIDE A SLEEVE OF SUFFICIENT LENGTH TO ACCOMMODATE MAXIMUM EXPANSION AND CONTRACTION OF THE EXPANSION JOINT.
- IN CONSIDERING THE HEIGHT OF THE PARAPET AND RAILING COMBINATION, ENSURE THE MINIMUM HEIGHT OF THE COMBINATION RAILING IS 42" MEASURED FROM THE TOP OF THE WALKWAY FOR PEDESTRIANS AND THE TOP OF THE BIKEWAY SURFACE FOR BICYCLE TRAFFIC.
- FOR ADDITIONAL REINFORCEMENT STEEL THAT IS REQUIRED IN THE VICINITY OF PARAPET JOINTS TO PREVENT CONCRETE CRACKING IN THE OVERHANG PORTIONS OF THE DECK SLAB, SEE "DETAIL 1."
- POUR THE BRIDGE DECK PORTION TO LEVEL UNDER THE PARAPET.
- ALL REINFORCEMENT STEEL IS DESIGNATED IN METRIC UNITS.
- FOR BARRIER TRANSITION AND GUIDE RAIL ATTACHMENT DETAILS, REFER TO CD-609-14.

BCD-507-3.3

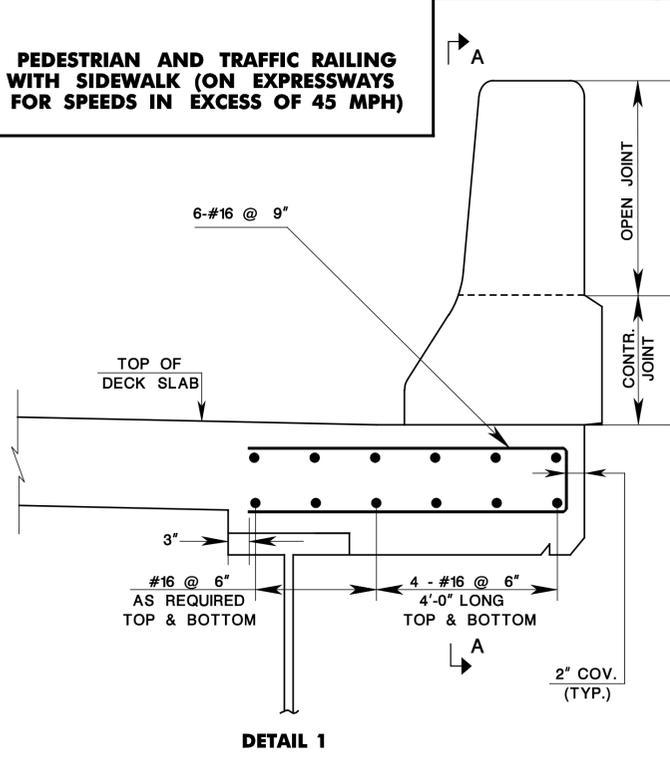


2'-10" HIGH PARAPET WITH BARRIER CURB



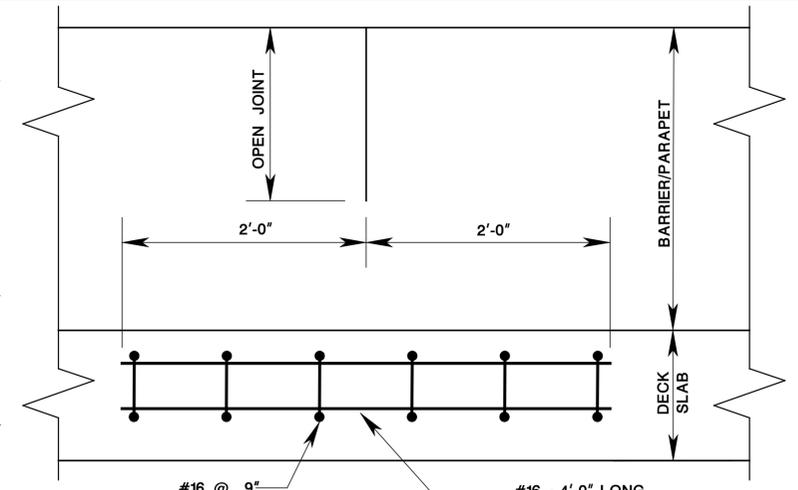
ELEVATION

TEST LEVEL 4
BCD-507-3.4



DETAIL 1

DECK REINFORCEMENT STEEL AT BARRIER / PARAPET JOINTS



SECTION A-A

2'-0" PARAPET, PEDESTRIAN AND TRAFFIC RAILING, AND 2'-10" PARAPET

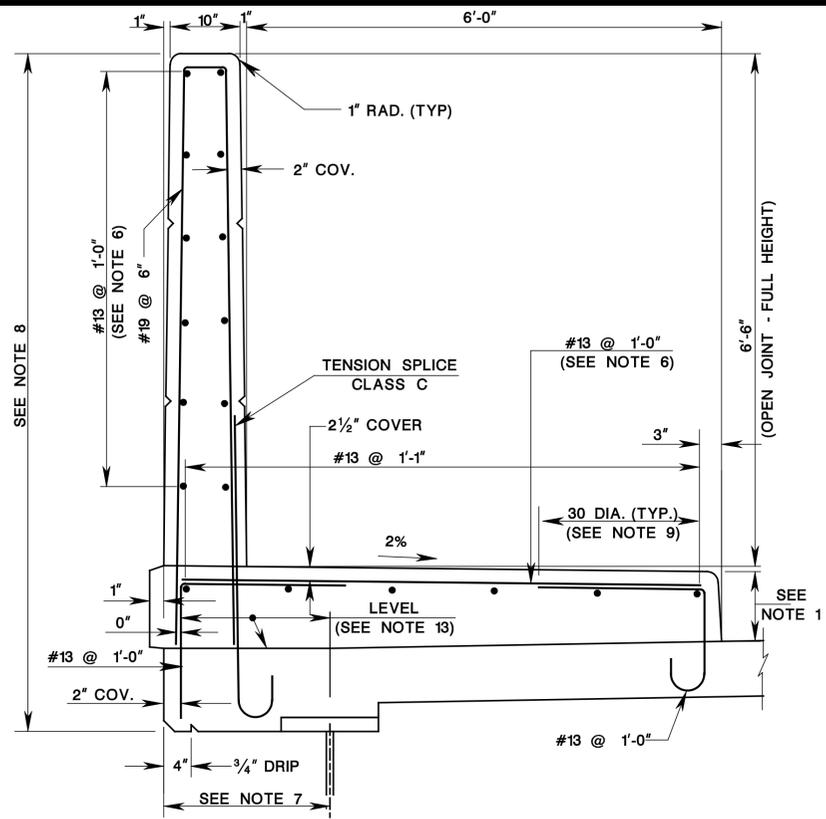
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BCD-507-3

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

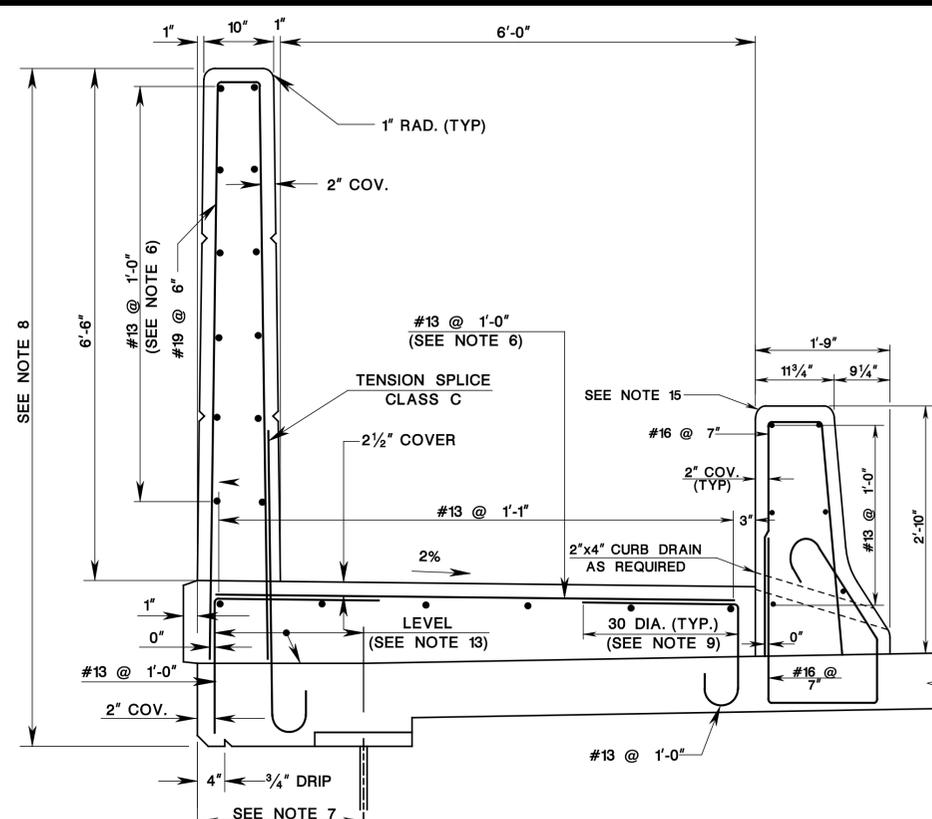
BRIDGE CONSTRUCTION DETAILS

TEST LEVEL 4
BCD-507-3.5



**6'-6" HIGH PARAPET WITH SIDEWALK OVER
ELECTRIFIED RAILROAD
(FOR USE ON NON-NHS BRIDGES ONLY)**

BCD-507-4.1



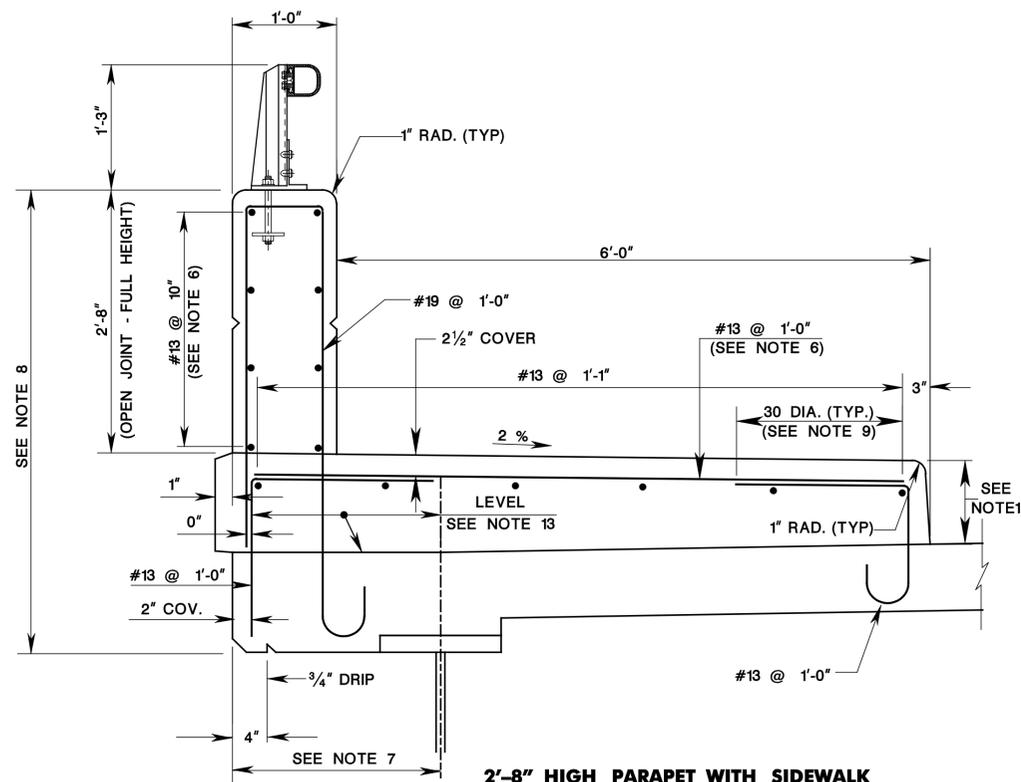
**6'-6" HIGH PARAPET WITH SIDEWALK OVER
ELECTRIFIED RAILROAD
(ON EXPRESSWAYS FOR SPEEDS IN EXCESS OF 45 MPH) TEST LEVEL 4**

BCD-507-4.2

NOTES:

- 1 REFER TO BRIDGE PLANS FOR CURB HEIGHT. REFER TO CD-607-2.5 FOR LINEAR CURB HEIGHT TRANSITION.
- 2 PROVIDE 3/16" OPEN DEFLECTION JOINT IN PARAPETS AT INTERVALS NOT EXCEEDING 20'-0" AND CONTRACTION JOINTS AT THE MIDPOINT BETWEEN THE OPEN JOINTS.
- 3 TERMINATE THE 3/16" OPEN JOINT AT THE LINE INDICATED AND PROVIDE A CONTRACTION JOINT BELOW THAT LINE.
- 4 PROVIDE CONTRACTION JOINTS IN SIDEWALKS AT LOCATIONS OF 3/16" OPEN PARAPET DEFLECTION JOINTS.
- 5 PROVIDE FULL DEPTH JOINTS AT LOCATION OF TRANSVERSE DECK JOINTS. THE FULL JOINT OPENING WIDTH TO EQUAL THE TRANSVERSE DECK JOINT OPENING WIDTH.
- 6 ENSURE THAT ALL REINFORCEMENT STEEL IN PARAPET AND SIDEWALK IS CORROSION PROTECTED.
- 7 PREFERRED MAXIMUM OVERHANG 2'-6". PERMANENT METAL STAY-IN-PLACE FORMS NOT PERMITTED IN THIS AREA.
- 8 FASCIA RUSTICATION AND CONFIGURATION AS PER NJDOT STANDARD SPECIFICATIONS.
- 9 AS AN OPTION, THE CONTRACTOR MAY ELIMINATE SPLICES AT EACH END OF THE TOP TRANSVERSE REINFORCEMENT STEEL IN SIDEWALKS BY PROVIDING A SINGLE BAR OF THE SAME CONFIGURATION WITH HOOKS AT EACH END, EMBEDDED IN THE DECK SLAB.
- 10 IF CONDUITS ARE USED WITHIN THE PARAPET, PROVIDE A SLEEVE OF SUFFICIENT LENGTH TO ACCOMMODATE MAXIMUM EXPANSION AND CONTRACTION OF THE EXPANSION JOINT.
- 11 IN CONSIDERING THE HEIGHT OF THE PARAPET AND RAILING COMBINATION, ENSURE THE MINIMUM HEIGHT OF THE COMBINATION RAILING IS 42" MEASURED FROM THE TOP OF THE WALKWAY FOR PEDESTRIANS AND THE TOP OF THE BIKEWAY SURFACE FOR BICYCLE TRAFFIC.
- 12 FOR ADDITIONAL REINFORCEMENT STEEL THAT IS REQUIRED IN THE VICINITY OF PARAPET JOINTS TO PREVENT CONCRETE CRACKING IN THE OVERHANG PORTIONS OF THE DECK SLAB, SEE "DETAIL 1."
- 13 POUR THE BRIDGE DECK PORTION TO LEVEL UNDER THE PARAPET.
- 14 ALL REINFORCEMENT STEEL IS DESIGNATED IN METRIC UNITS.
- 15 FOR BARRIER TRANSITION AND GUIDE RAIL ATTACHMENT DETAILS, REFER TO CD-609-14.

BCD-507-4.3



**2'-8" HIGH PARAPET WITH SIDEWALK
(FOR USE ON NON-NHS BRIDGES ONLY)**

BCD-507-4.4

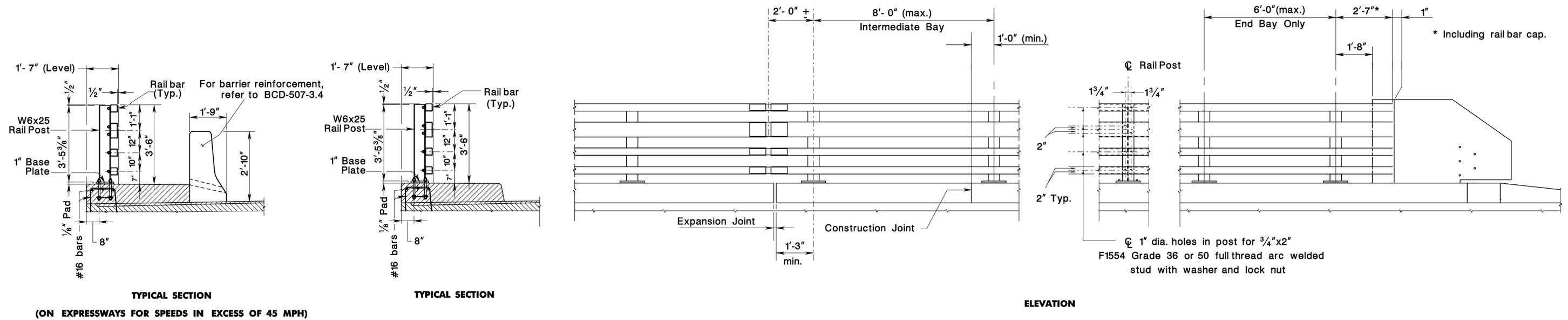
6'-6" AND 2'-8" PARAPET

N.T.S.

BCD-507-4

NEW JERSEY DEPARTMENT OF TRANSPORTATION
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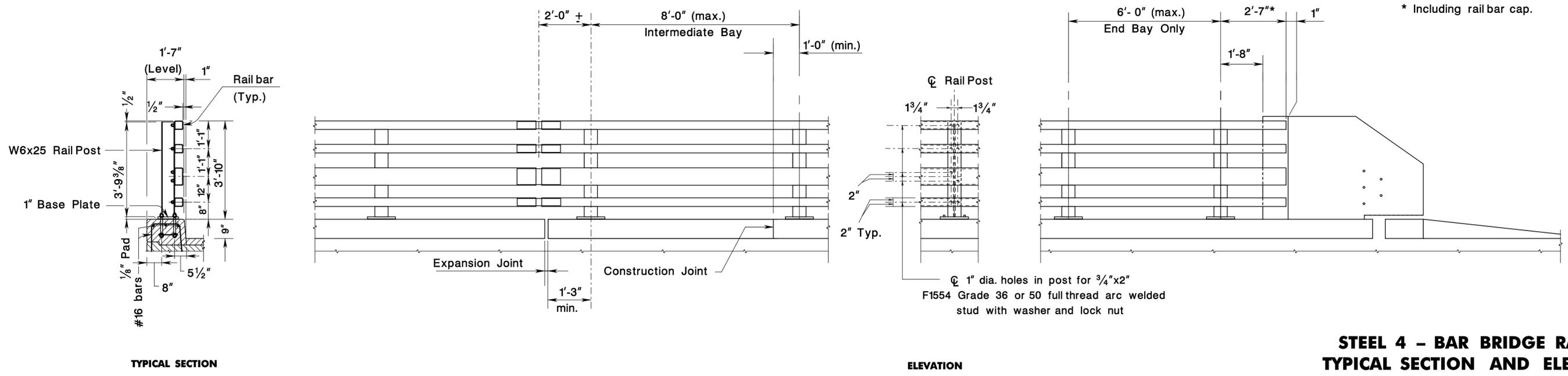
BRIDGE CONSTRUCTION DETAILS



Vehicular Traffic / Pedestrian Traffic Configuration

Rail Bars
TS8x4x5/16" (1)
TS4x4x1/4" (3)

TEST LEVEL 4
BCD-507-11.1



Vehicular Traffic / Bicycle Traffic Configuration

STEEL 4 - BAR BRIDGE RAILING, TYPICAL SECTION AND ELEVATIONS

N.T.S.

BCD-507-11

NEW JERSEY DEPARTMENT OF TRANSPORTATION
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BRIDGE CONSTRUCTION DETAILS

TEST LEVEL 4
BCD-507-11.2

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BCD17D-01-TITLE CHANGE-BCD-507-11.1
BCD18D-01-ORIGINAL SHEET

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