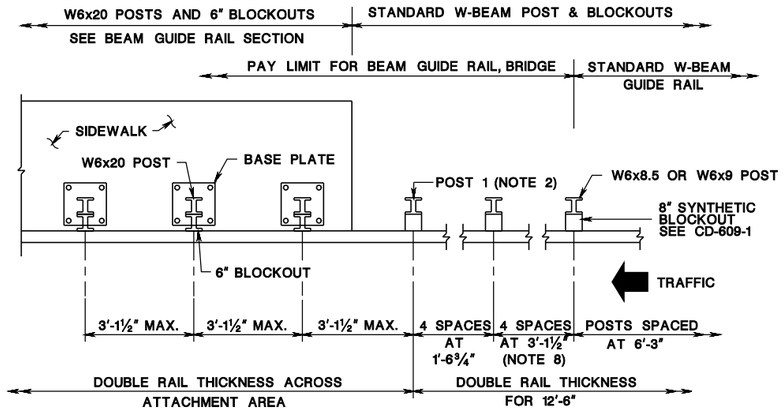
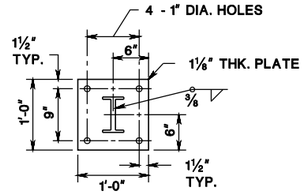
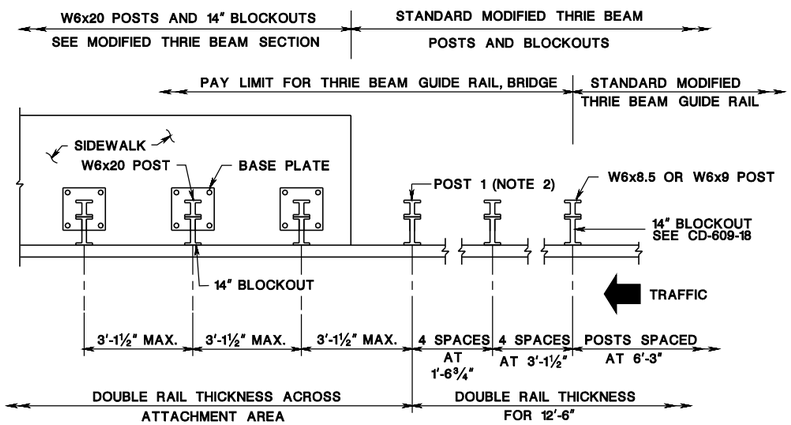


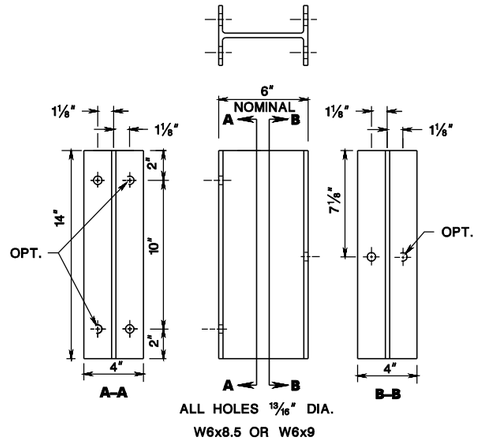
BEAM GUIDE RAIL ATTACHMENT TO SIDEWALK (NCHRP 350 TL–3)



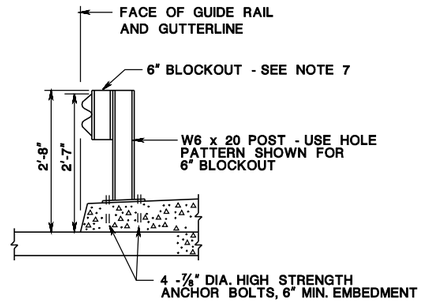
BASE PLATE



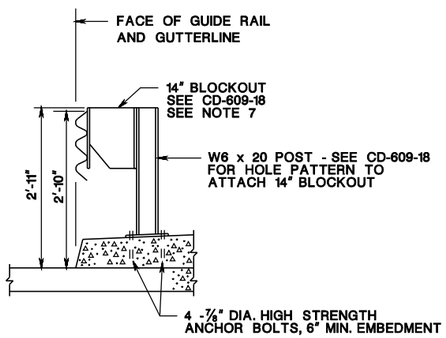
MODIFIED THRIE BEAM GUIDE RAIL ATTACHMENT TO SIDEWALK (NCHRP 350 TL–4)



6" BLOCKOUT



BEAM GUIDE RAIL SECTION



MODIFIED THRIE BEAM SECTION

NOTES:

1. USE "BEAM GUIDE RAIL, BRIDGE" ITEM OR "THRIE BEAM GUIDE RAIL, BRIDGE" ITEM IF SIDEWALK IS ON A STRUCTURE. IF SIDEWALK IS NOT ON A STRUCTURE, USE "BEAM GUIDE RAIL, BRIDGE" ITEM OR "THRIE BEAM GUIDE RAIL, BRIDGE" ITEM AND SIDEWALK IS TO BE A MINIMUM 8" THICK WITH A MINIMUM WIDTH EQUAL TO THE NONVEGETATIVE REQUIREMENTS SHOWN ON CD-608-1.
2. WHEN THE CONFIGURATION OF BRIDGE ABUTMENTS AND WINGWALLS DO NOT ACCOMMODATE THE INSTALLATION OF POST 1, THE W6x20 POST MAY BE ATTACHED TO THE ABUTMENT HEADER WITH THE USE OF A BASE PLATE.
3. STRUCTURAL STEEL PLATES AND SHAPES TO CONFORM TO ASTM A36 AND BE GALVANIZED PER ASTM A123.
4. STEEL BOLTS, NUTS AND WASHERS TO CONFORM TO ASTM A307, UNLESS DESIGNATED AS HIGH STRENGTH STEEL. HIGH STRENGTH BOLTS, NUTS AND WASHERS TO CONFORM TO ASTM F3125, GRADE A325. HARDWARE TO BE GALVANIZED PER ASTM A153.
5. HIGH STRENGTH BOLTS FOR BASE PLATE ANCHORAGE TO BE FULLY THREADED. USE AN ADHESIVE ANCHOR BOLT SYSTEM MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. INSTALL BOLTS A MINIMUM 6" EMBEDMENT AND AS PER MANUFACTURER'S RECOMMENDATION TO ENSURE A MINIMUM PULLOUT STRENGTH OF 24,000 POUNDS. CARE TO BE EXERCISED TO AVOID DAMAGE TO EXISTING REINFORCEMENT AND CONDUITS.
6. WELD POSTS TO BASE PLATES ACCORDING TO THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
7. ATTACH BLOCKOUTS TO POSTS WITH TWO POST BOLTS USING DIAGONALLY OPPOSITE HOLES. SEE CD-609-18 FOR POST BOLT AND RAIL BOLT DETAILS.
8. ONE ADDITIONAL 3'-1½" POST SPACING MAY BE NEEDED TO TRANSITION TO 6'-3" POST SPACING WITH MID-POST SPLICES.
9. WHERE THERE IS NO CURB, THE SIDEWALK SHALL BE CONSTRUCTED LEVEL WITH ADJACENT GROUND OR PAVEMENT.
10. THIS DETAIL CAN IMPROVE IMPACT PERFORMANCE OF A BRIDGE WITH SAFETYWALKS. THIS DETAIL SHALL NOT BE USED ON A BRIDGE DECK REPLACEMENT OR SUPERSTRUCTURE REPLACEMENT PROJECT.

BEAM GUIDE RAIL ATTACHMENTS

N.T.S.

CD-609-11

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

BDC17D-02-REVISIONS TO CD-609-11
BDC16D-01-ORIGINAL SHEET

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