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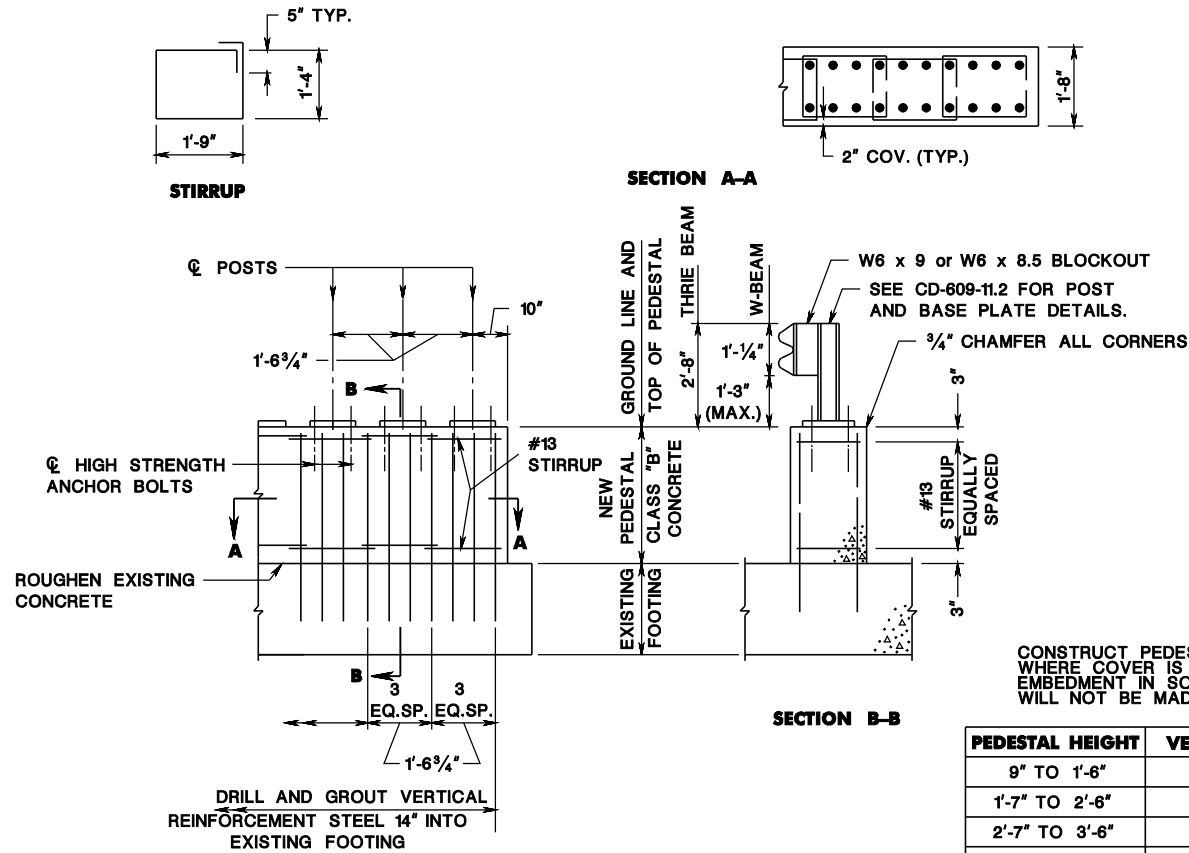
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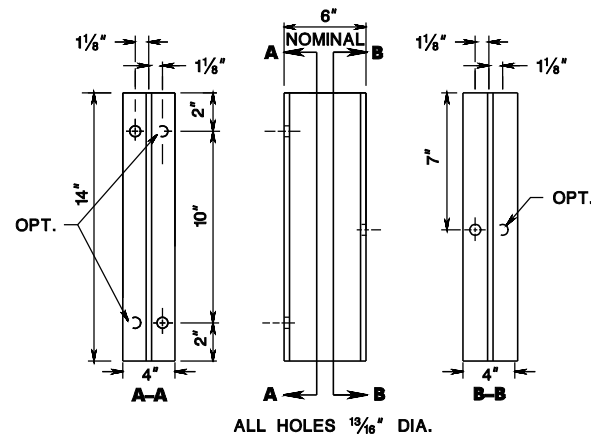
BD-CRD-01-ORIGINAL SHEET

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**BEAM GUIDE RAIL ATTACHMENT TO FOOTING**  
SEE CD-609-12.2 FOR GENERAL NOTES

PEDESTAL HEIGHT	VERTICAL REINFORCEMENT STEEL	STIRRUPS
9" TO 1'-6"	#16	2 - #13
1'-7" TO 2'-6"	#16	3 - #13
2'-7" TO 3'-6"	#16	4 - #13
3'-7" TO 4'-0"	#16	5 - #13



**14" BLOCKOUT**  
**W6 x 9 OR W6 x 8.5 STEEL POST**

**GENERAL NOTES:**

STRUCTURAL STEEL PLATES AND SHAPES TO CONFORM TO ASTM A36 AND BE GALVANIZED PER ASTM A123.

STEEL BOLTS, NUTS, AND WASHERS TO CONFORM TO ASTM A307, UNLESS DESIGNATED AS HIGH STRENGTH. HIGH STRENGTH BOLTS, NUTS, AND WASHERS TO CONFORM TO ASTM A325. HARDWARE TO BE GALVANIZED PER ASTM A153.

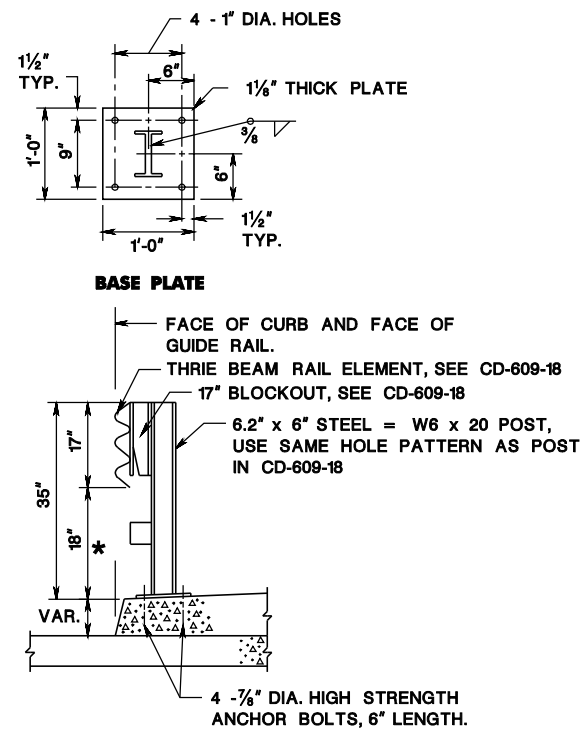
FOR CD-609-11.2 HIGH STRENGTH BOLTS FOR BASE PLATE ANCHORAGE TO BE FULLY THREADED. USE AN ADHESIVE ANCHOR BOLT SYSTEM MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. INSTALL BOLTS A MINIMUM 6" EMBEDMENT AND PER MANUFACTURER'S RECOMMENDATION TO ENSURE A MINIMUM PULLOUT STRENGTH OF 24,000 POUNDS. CARE TO BE EXERCISED TO AVOID DAMAGE TO EXISTING REINFORCEMENT AND CONDUITS.

FOR CD-609-12.1, HIGH STRENGTH BOLTS FOR BASE PLATE ANCHORAGE MAY BE CAST-IN-PLACE IN FRESH CONCRETE WITH A MINIMUM EMBEDMENT LENGTH OF 20".

WELD POSTS TO BASE PLATES ACCORDING TO THE ANSI/AASHTO / AWS D1.5 BRIDGE WELDING CODE.

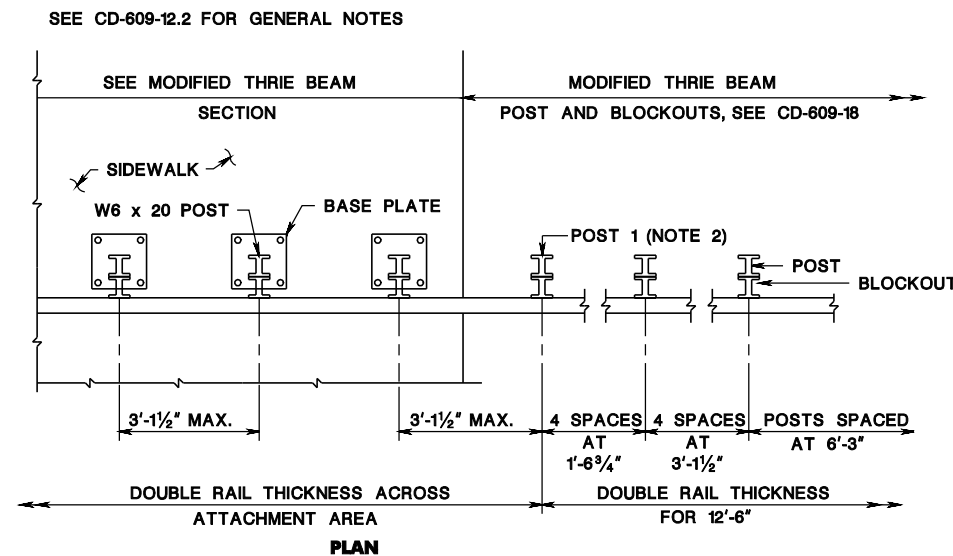
CD-609-12.1

CD-609-12.2



\* MEASURED FROM TOP OF CURB IF ROADWAY CURB EXISTS, OTHERWISE MEASURED FROM GUTTER LINE.

**MODIFIED THRIE BEAM SECTION**



**MODIFIED THRIE BEAM GUIDE RAIL ATTACHMENT TO SIDEWALK**

**NOTES:**

- USE "THRIE BEAM GUIDE RAIL BRIDGE" ITEM IF SIDEWALK IS ON A STRUCTURE. IF SIDEWALK IS NOT ON A STRUCTURE, USE "MODIFIED THRIE BEAM GUIDE RAIL ITEM AND SIDEWALK" TO BE MINIMUM 8 INCHES THICK.
- USE "THRIE BEAM GUIDE RAIL BRIDGE" DO NOT ACCOMMODATE THE INSTALLATION OF POST 1, THE W6 x 20 POST MAY BE ATTACHED TO THE ABUTMENT HEADER WITH THE USE OF A BASE PLATE.

**NOTES:**

REINFORCEMENT STEEL IS IN METRIC UNITS.

**BEAM GUIDE RAIL ATTACHMENTS**  
N.T.S.

CD-609-12

NEW JERSEY DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS**

CD-609-12.3