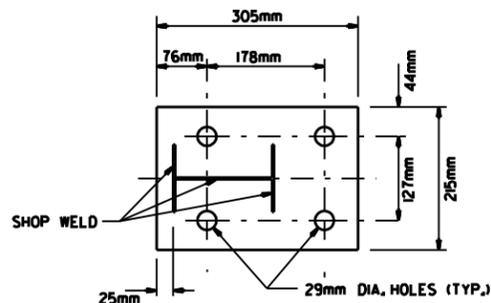
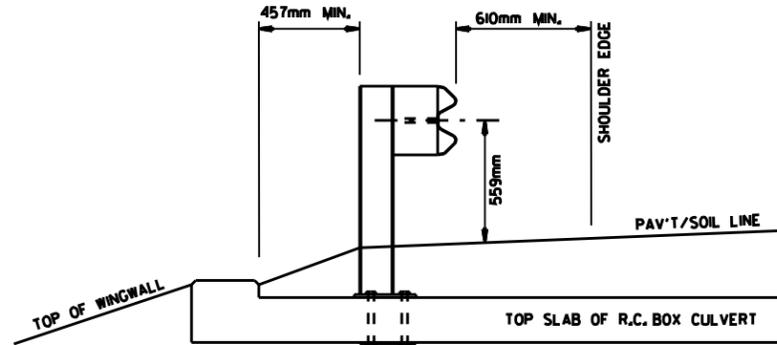


WASHER PLATE

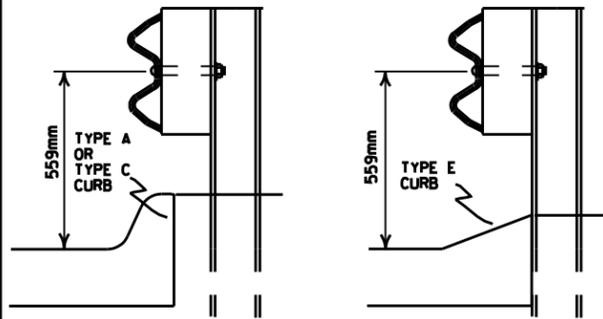


BASE PLATE

Note: Bolts, nuts, washers and plates shall be galvanized in accordance with Section 807 of the Standard Specifications.



SECTION A-A

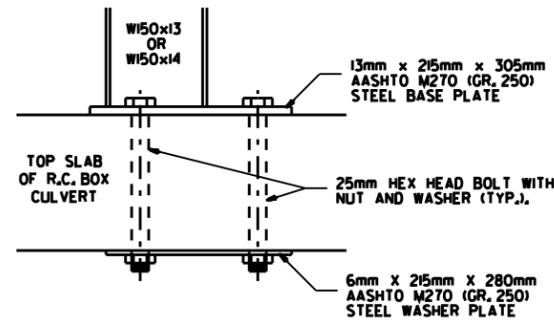


FOR DESIGN SPEEDS OF 80 KMPH OR LESS
ALIGN FACE OF GUARD RAIL WITH FACE OF CURB

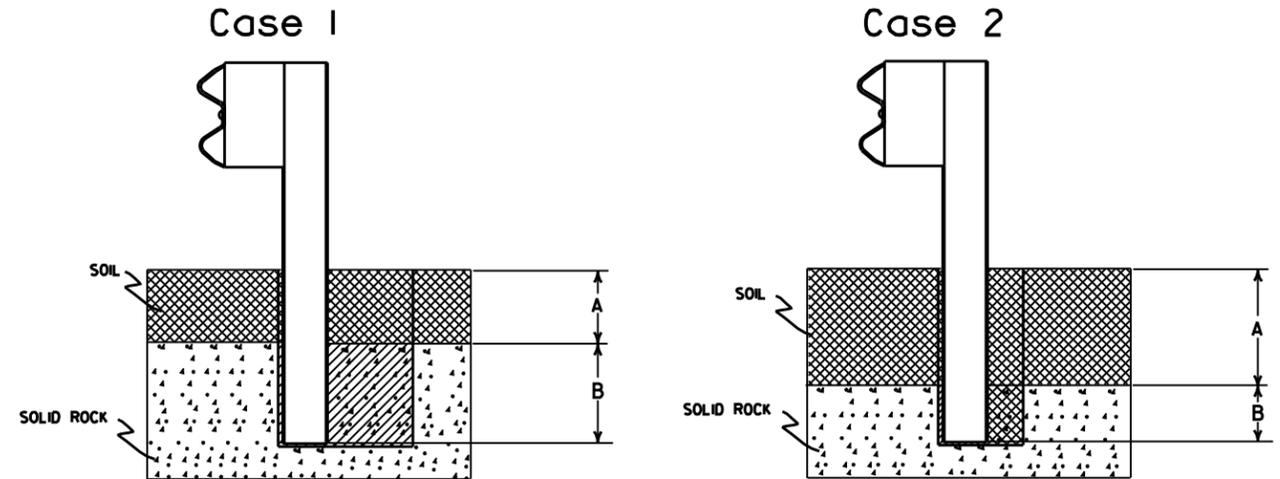
FOR DESIGN SPEEDS OF 90 KMPH OR MORE
PLACE GUARD RAIL POSTS AGAINST BACK OF CURB

DETAIL OF GUARD RAIL PLACEMENT BEHIND CURB (W-BEAM)

FOR DESIGN SPEEDS OF 80 KMPH OR LESS ALL CURB FACES, AS SHOWN ON STD. DRWG. CG-1(M), MAY BE USED. FOR DESIGN SPEEDS OF 90 KMPH OR MORE TYPE "E" CURB FACE SHALL BE USED.

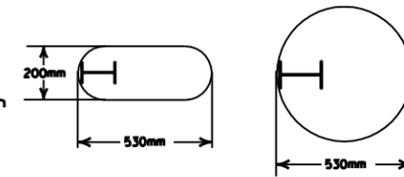


DETAIL OF CONNECTION



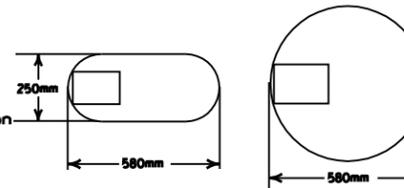
Plan View Steel Posts

Either hole configuration acceptable



Plan View Wood Posts

Either hole configuration acceptable



Notes: For overlying soil depths (A) ranging from 0 to 460mm, the depth of required drilling (B) is equal to 610mm.

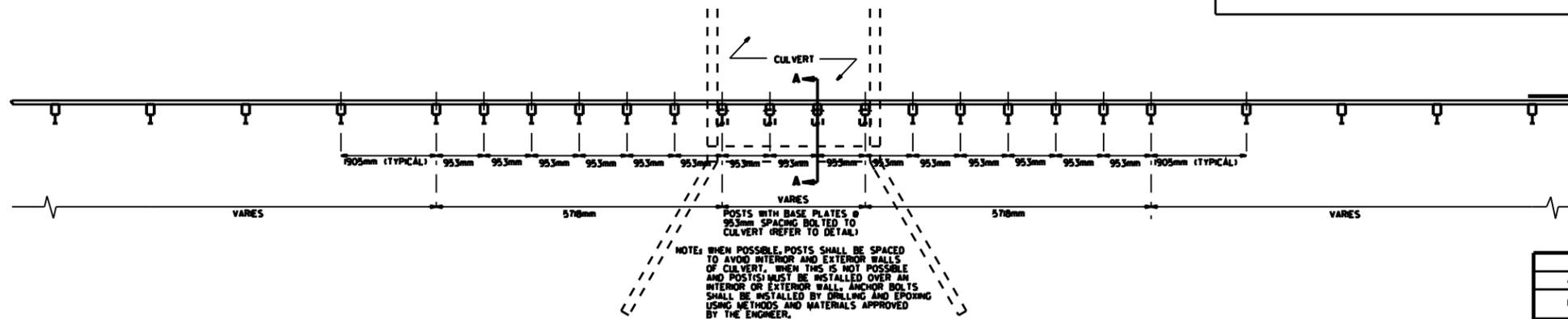
Zone A: Backfill according to Section 617.03(a).

Zone B: Backfill hole in 150mm lifts with material meeting the requirements of Section 802.02(c) - Alternate gradation. Compact to 95% maximum dry density per ASTM D-698.

Notes: For overlying soil depths (A) ranging from 460mm to 1118mm, the depth of required drilling (B) is equal to either 305mm or 1118mm minus the depth of soil whichever is less.

Zone A & B: Backfill according to Section 617.03(a).

DETAIL OF POST PLACEMENT IN SOLID ROCK (W-BEAM)



NOTE: WHEN POSSIBLE, POSTS SHALL BE SPACED TO AVOID INTERIOR AND EXTERIOR WALLS OF CULVERT. WHEN THIS IS NOT POSSIBLE AND POSTS MUST BE INSTALLED OVER AN INTERIOR OR EXTERIOR WALL, ANCHOR BOLTS SHALL BE INSTALLED BY DRILLING AND EPOXYING USING METHODS AND MATERIALS APPROVED BY THE ENGINEER.

PLAN LAYOUT OF TYPE A GUARD RAIL AT LOW-FILL CULVERTS

NOTE: THIS DETAIL IS TO BE USED ONLY WHEN THE COVER OVER THE CULVERT DOES NOT PERMIT FULL EMBEDMENT OF GUARD RAIL POSTS AS SHOWN ON STD. DRWG. GR-8.

7-14-10	RAISED HEIGHT OF GUARD RAIL 26mm	
4-12-07	REVISED DETAIL OF GUARD RAIL PLACEMENT BEHIND CURB	
1-10-05	ADDED GUARD RAIL PLACEMENT BEHIND CURB; REVISED DETAIL OF CONNECTION	
11-18-04	REVISED POST PLACEMENT IN ROCK & CULVERT CONNECTION DETAILS, ADDED DETAIL FOR GUARD RAIL PLACEMENT AT LOW-FILL CULVERTS	
3-30-00	REMOVED CONCRETE INSERT ANCHOR ASSEMBLY	
8-12-98	CHANGED STEEL SPACER BLOCK TO WOOD BLOCKOUT & ADDED DETAILS OF GUARD RAIL CONNECTION TO R.C. BOX CULVERT, DELETED DET. OF STEEL LINE POST CONNECTION, ADDED DET. OF GUARD RAIL PLACE. BEHIND CURB & DET. OF POST PLACE IN SOLID ROCK	
4-3-97	LABELED CUT STEEL WASHERS	
10-18-96	REVISED ASTM TO AASHTO	
4-26-96	TO MATCH DETAIL ON BRIDGE DRAWING 36525	
11-22-95	ADDED OPTIONAL HOLES	
7-20-95	CONVERTED TO METRIC	
DATE	REVISION	DATE PLOTTED

ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

STANDARD DRAWING GR-8A(M)