

Typical layout at abutment

100 x 100 x 6mm PLATE

10mm DIA VENT HOLE (SEE NOTE 5)

W-SECTION GUARDRAIL

M16S0 GRADE 4.6 COACH BOLT & NUT, NUT TO BE FINGER TIGHT AND THEN LOCKED WITH A LOCKWUT

10mm GALVANISING VENT HOLE, CENTRAL (SEE NOTE 5)

200 x 100 x 6 RHS

24mm DIA. HOLE

100 x 100 x 6 RHS (680 LONG)

20mm BASE PLATE

294

55

55

10

SECTION 'A-A'

GUARDRAIL POST

20mm DIA. GALVANISING DRAIN HOLES

20mm THICK PL

150x220mm SLOTTED HOLES

12mm DIA. HOLES FOR POST ADJUSTMENT

BASE PLATE

260

100

30

30

70

70

40

90

90

40

81

140

60

200

30

70

70

30

70

70

40

90

90

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81

140

60

200

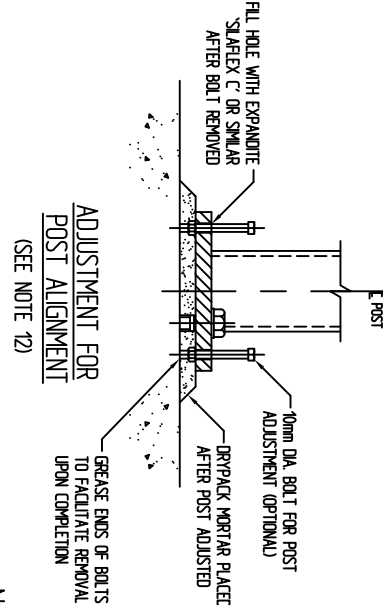
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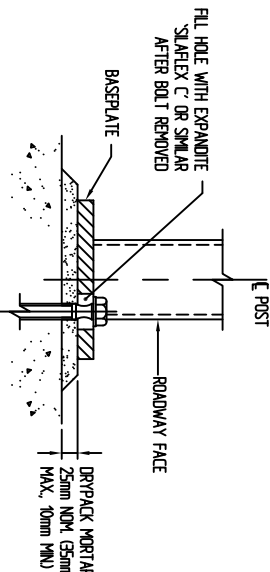
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Footings on bridge approaches (REFER ALSO DRAWING B5)



Adjustment for post alignment (SEE NOTE 12)



Fixing detail

NOTES:

1. ALL STEELWORK TO BE HOT DP GALVANISED AFTER FABRICATION TO AS/NZS 4680 AND STRAIGHTENED AFTER GALVANISING IF REQUIRED.
2. ALL STEELWORK EXCEPT W-SECTION GUARDRAIL AND RHS TO BE GRADE S275 TO NZS 3475 OR GRADE 250 TO AS/NZS 3678 OR EQUIVALENT.
3. RHS SHALL BE GRADE C350 TO AS/NZS 3703 OR EQUIVALENT.
4. TO ALLOW FOR BRIDGE MOVEMENT, NUTS OF M16 GUARDRAIL/POST FIXING BOLTS TO BE TIGHTENED FINGER TIGHT THEN LOCKED WITH LOCKNUT.
5. VENT HOLES IN GUARDRAIL POSTS SHALL BE EFFECTIVELY SEALED TO PREVENT INGRESS OF WATER WITH SILICONE SEALANT (GOSROC SILAFLEX MS OR EQUIVALENT).
6. GUARDRAIL POSTS SHALL BE PLACED VERTICALLY IN THE TRANSVERSE BRIDGE DIRECTION AND NORMAL TO THE GRADE IN THE LONGITUDINAL BRIDGE DIRECTION.
7. ALL GUARDRAIL PANELS USED WILL BE 12 GAUGE.
8. IN THE CASE OF A CURVED BRIDGE THE UNDERHANG OF THE TOP RAIL MAY REQUIRE CUTTING AT THE ENDS OF THE RAIL TO ENABLE THE RAIL TO FIT THE RHS. POST. CUTTING SHALL BE CARRIED OUT BEFORE GALVANISING.
9. ALL EXPOSED SHARP EDGES AND CORNERS TO BE SLIGHTLY ROUNDED BY GRINDING BEFORE GALVANISING.
10. ALL WELDING TO BE IN ACCORDANCE WITH AS/NZS 1554.1
11. DRYPACK MORTAR TO BE IN ACCORDANCE WITH NZS 3109.
12. USE OF 10mm DIA. BOLTS FOR POST ADJUSTMENT IS OPTIONAL.
13. IF THE GAP BETWEEN BASE PLATE AND DECK SURFACE IS MORE THAN 35mm, A STEEL SHIM PLATE SHALL BE ADDED BELOW THE BASEPLATE, SO THAT THE MORTAR THICKNESS IS WITHIN THE LIMITS SHOWN.

Barrier Performance Level 3

The appropriate layout arrangements shall be redrawn for each project. This drawing shall not be used in contract documents.

No.	Revision	Date	Approved	Date	Series	Ref./Number
			J Chisnall	08/2013	Non-Proprietary Bridge Barrier Systems	
			Endorsed	Date		
2	Post base plate slotted hole size modified.	25/05/15	F Tate	08/2013		
1	W-section guardrail bolt fixing description modified.	07/08/13				
0	Re-draft for M23 Appendix B	17/04/12				