

ANCHOR PLATE CAST

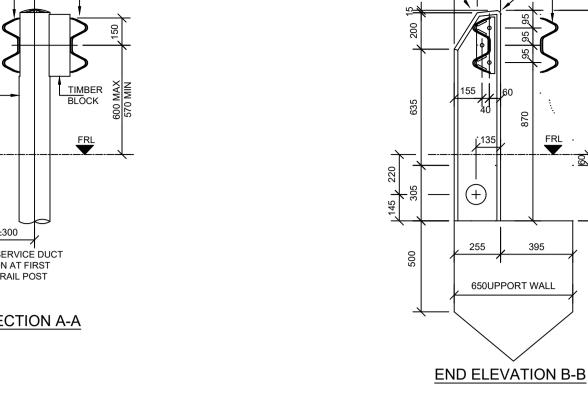
GRADE 8.8 M20 BOLTS

BACKING PLATE —

110 Ø uPVC SERVICE DUCT

SECTION D-D

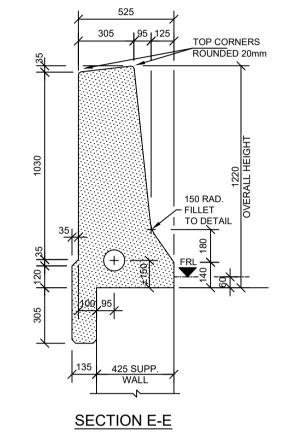
INTO CONCRETE

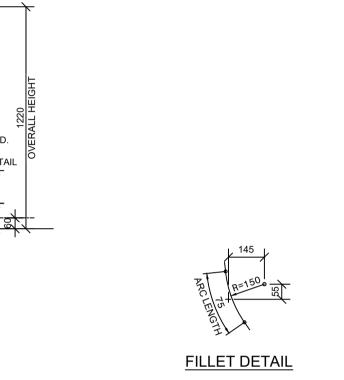


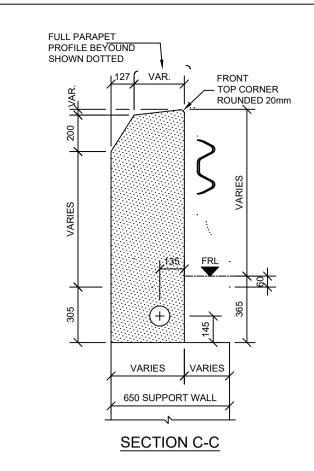
DOUBLE REAR

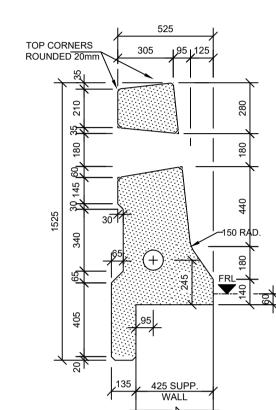
GUARDRAIL ATTACHED TO

ENDBLOCK









SECTION F-F

NOTES AND SPECIFICATIONS

- 1. GUARDRAILS ARE REQUIRED IN THE FOLLOWING CASES:
- 1.1 WHERE WATER NEXT TO THE ROAD FORMATION IS DEEPER THAN 1,5m.
- 1.2 AT ALL BRIDGES ON SIDE OF ROAD.
- 1.3 ON THE OUTSIDE OF CURVES WITH RADII LESS THAN 300m WITHOUT RECOVERY AREAS.
- 1.4 WHERE OBSTRUCTIONS ARE LESS THAN 1m FROM THE
- SHOULDER BREAKPOINT.
- 1.5 WHERE AN OBSTRUCTIONS APPEARS TO BE MORE DANGEROUS THAN WHAT A GUARDRAIL WOULD BE.
- 1.6 IN THE CASE OF EMBANKMENTS / FILLS, THE WARRANTS DIAGRAM WILL APPLY.
- NO GAURDRAILS WILL BE ACCEPTED THAT SHOW SIGNS OF RUST OR OXIDATION
- SPECIFICATIONS:
- 3.1 BOLT: HIGH TENSILE STEEL M16
- 3.2 WASHER: STEEL WASHER.
- 3.3 SPACERBLOCK: GUM OR PINE. TREATED WITH CREOSOTE ACCORDING TO ANY METHOD IN SANS 10005.
- 3.4 POLE: 150mm TO 180mm GUM OR PINE TREATED WITH CREOSOTE ACCORDING TO ANY METHOD IN SANS 10005.
- 3.5 ALL GUARDRAILS SHALL BE GALVANIZED AS SPECIFIED (NOT PAINTED).
- 3.6 ALL STRUCTURAL STEEL, INCLUDING TUBES, SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF SABS 763 FOR TYPE A1 OR B1 ARTICLES AS APPLICABLE (OR LATEST).
- 3.7 ALL WELDING WILL BE DONE PRIOR TO GALVANIZING.
- ALSO REFER TO SECTION 611 OF THE STANDARD SPECIFICATION FOR MUNICIPAL CIVIL ENGINEERING WORKS, 3rd EDITION, 2005.

			AMEND	MENTS		
NR.	DATE	APPROVED		ι	DESCRIPTION	PAF
DESIGNE J.M. CI	ED RONJE Pr.T	ech.Eng.		DRAWN		
SIGNATURE:		DATE		S. AUDIE		
DESIGN CHECKED BY S. NAIDOO Pr.Tech.Eng.				INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT D.J. CHALMERS		

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TYPICAL STANDARD **DETAILS**

GUARDRAILS

NEW GUARDRAIL TO BRIDGE CONNECTIONS

CONTRACT No. :		PROJECT No.:		
ATE: SCALE			ORIGINAL PAPER SIZE:	
21 October 2020	NOT TO	NOT TO SCALE		
STD013		SHEET NO: 5 OF 5		REVISION

