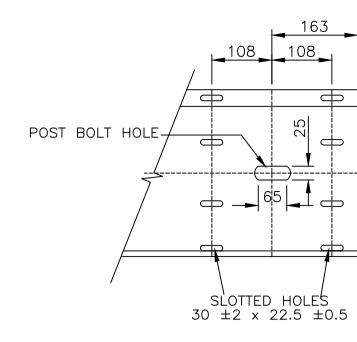
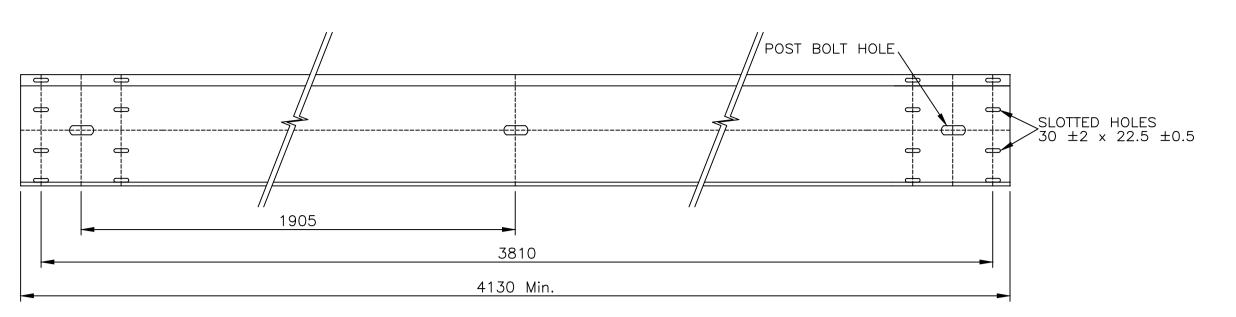
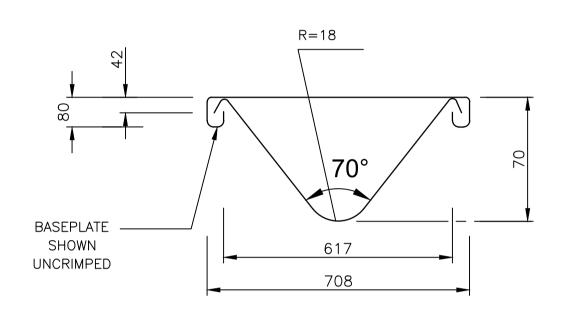
TRAFFIC FACE OF GUARDRAIL (SEE SECTION AT POST BOLT HOLES) 2.6 NOM. MIN FOR STEEL NEUTRAL AXIS SPLICE BOLT HOLES WITH CENTRES ON COMMON AXIS POST BOLT HOLE 194 315 ±5 (NOTE: THE PROFILE IS TO BE MAINTAINED IN THE SPLICE AREA)



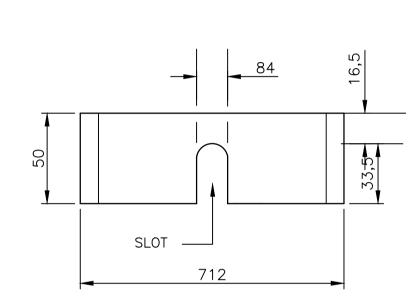


GUARDRAIL

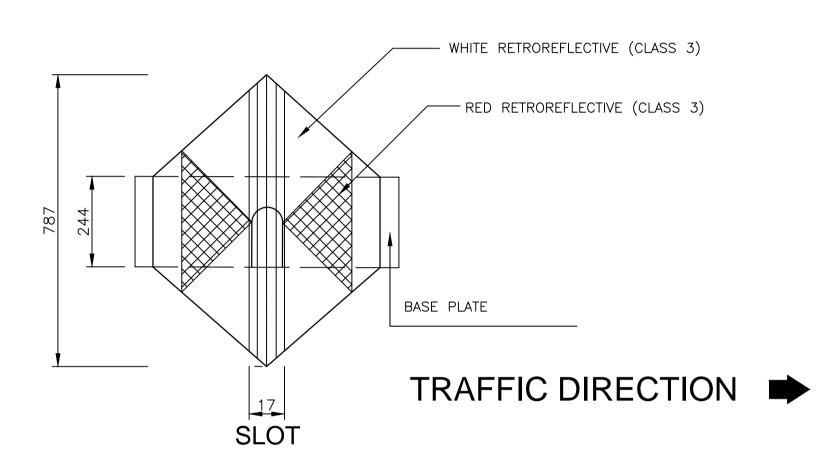
CROSS-SECTION OF GUARDRAIL



SECTION PLAN

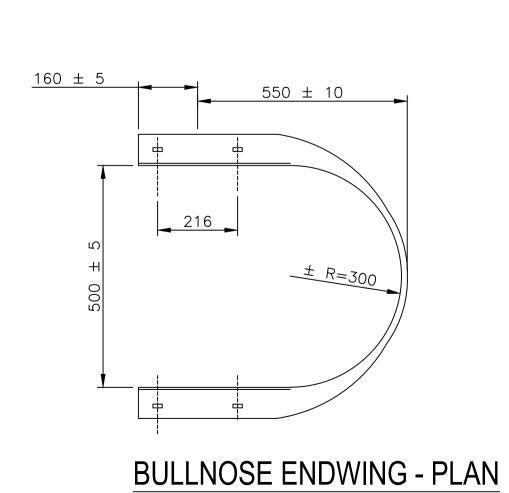


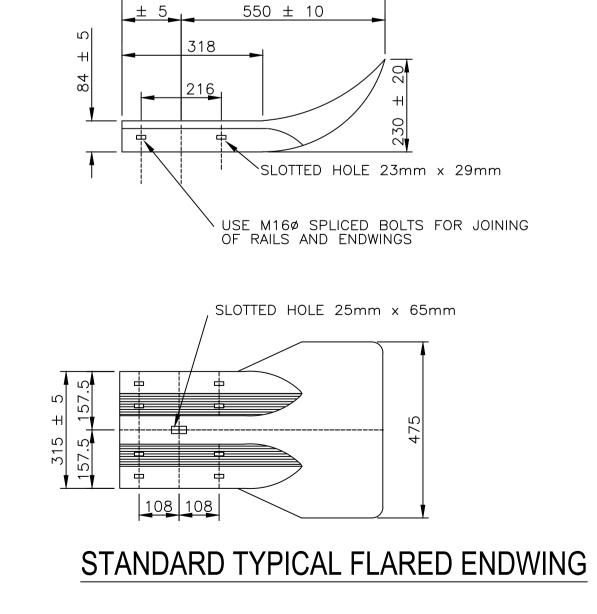
DETAIL OF BASEPLATE



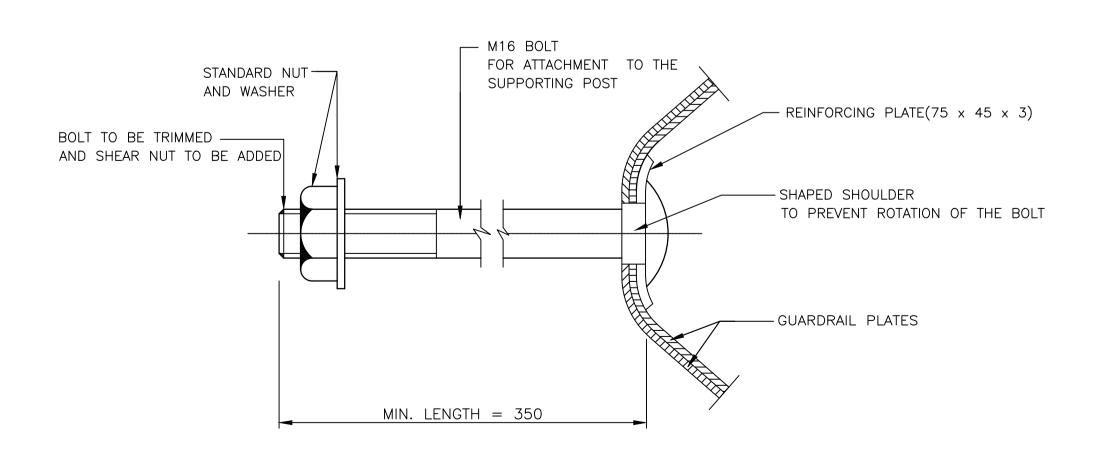
FRONT ELEVATION

DETAIL OF GUARDRAIL REFLECTIVE PLATES





710



STANDARD POST BOLT DETAIL

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
- 3. 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.
- 3.8 ALL EXISTING GUARDRAILS TO BE MAINTAINED AT
- ALSO REFER TO SECTION 611 OF THE STANDARD SPECIFICATION FOR MUNICIPAL CIVIL ENGINEERING WORKS, 3rd EDITION, 2005.

EXISTING HEIGHT UNLESS SPECIFIED BY ENGINEER.

			AMEND	MENTS				
NR.	DATE	APPROVED		DESC	CRIPTION	PAR.		
DESIGNED J.M. CRONJE Pr.Tech. Eng.			DRAWN					
S.W. STORGE FILTOSII. Elig.				S. AUDIE				
SIGNATURE: DATE:								
	CHECKED BY				CHNICAL INFORMATION	ION		
S. NAI	DOO Pr. Tee	ch. Eng.			HALMERS			
SIGNATURE:		DATE:		SIGNATURE:	DATE:			

CITY OF TSHWANE ROADS AND TRANSPORT DEPARTMENT

DATE:.....

DATE:.....

DRAWING APPROVED BY GROUP HEAD

Mr Letlonkane P. (Pheko)

TYPICAL STANDARD DETAILS

DESCRIPTION OF PROJECT

GUARDRAILS

CROSS SECTION, REFLECTOR PLATES AND ENDWINGS

CONTRACT No. :	PROJECT No. :				
DATE :	SCALE :	SCALE :		ORIGINAL PAPER SIZE:	
31 JANUARY 2022	AS SHO	AS SHOWN			
STD013		SHEET NO:		REVISION	