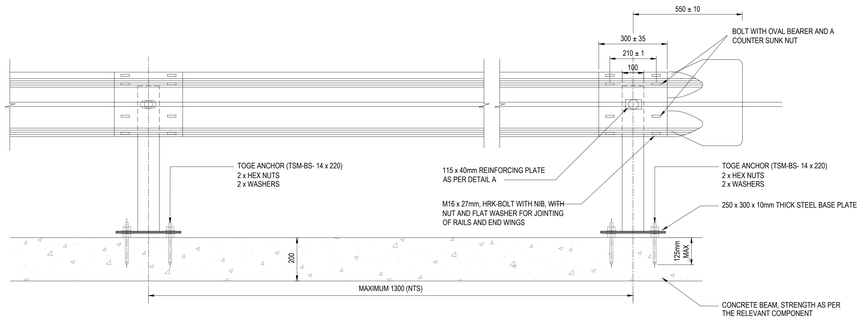
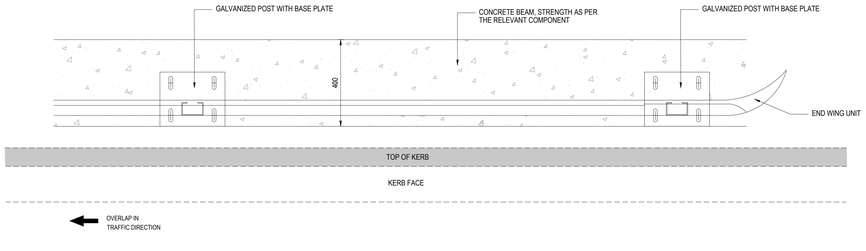


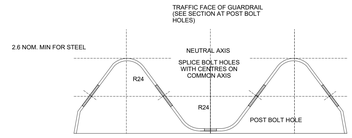
FRONT ELEVATION

SCALE 1:10



PLAN VIEW

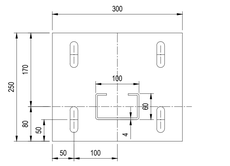
SCALE 1:10



(NOTE: THE PROFILE IS TO BE MAINTAINED IN THE SPLICE AREA)

GUARDRAIL CROSS SECTION

SCALE 1:5



BASE PLATE DETAIL

SCALE 1:5

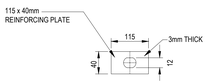
GENERAL NOTES

1. BEFORE GUARDRAILS ARE ERECTED SETTING OUT APPROVAL MUST BE RECEIVED FROM THE CLIENT / ENGINEER FOR PRIVATE ROADS AND IN PUBLIC ROADS APPROVAL MUST BE RECEIVED FROM THE RELEVANT ROADS AUTHORITY.

GUARDRAIL NOTES

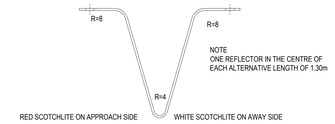
GUARDRAILS ARE REQUIRED IN THE FOLLOWING CASES:

1. WHERE THE FILL IS MORE THAN 4m WITH NO RECOVERY AREA.
2. WHERE WATER NEXT TO THE ROAD FORMATION IS DEEPER THAN 1,5m.
3. AT ALL BRIDGES.
4. ON THE OUTSIDE OF CURVES WITH RADII LESS THAN 300mm WITHOUT RECOVERY AREAS.
5. WHERE OBSTRUCTIONS ARE LESS THAN 1m FROM THE SHOULDER BREAKPOINT.
6. ALONG ALL ROAD INTERSECTION BELLMOUTHS.
7. AT BUS BAYS WHERE STORMWATER CHANNELS ARE DIRECTLY ADJACENT TO THE BAY.
8. ALL GUARDRAILS SHALL BE GALVANIZED AND NOT PAINTED.



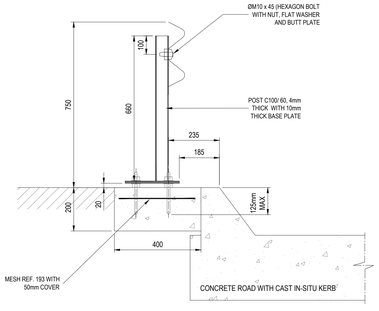
REINFORCING PLATE

SCALE 1:5



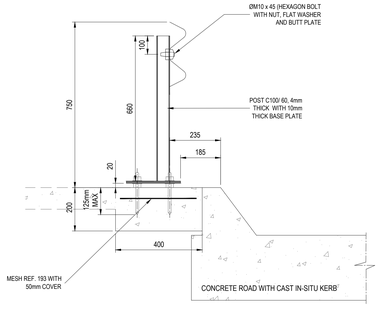
SECTIONAL PLAN : DETAIL OF REFLECTOR PLATE

FRONT ELEVATION



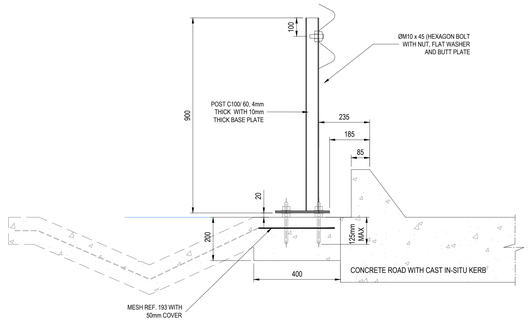
GUARDRAIL SECTION
BEHIND KERB

SCALE 1:10



GUARDRAIL SECTION
BEHIND KERB + IN FRONT OF WALKWAY

SCALE 1:10



GUARDRAIL SECTION
BEHIND KERB + IN FRONT OF CHANNEL

SCALE 1:10

NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL.
4. DRAWINGS MUST BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND GENERAL NOTES DRAWINGS.
5. IF APPLICABLE, DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.

LOCALITY



LEGEND

SYMBOL	DESCRIPTION

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
E2	FOR TENDER	RR	HVDM	HVDM	18 07 25
E1	FOR TENDER	RR	HVDM	HVDM	26 06 25

REVISIONS

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ZUTARI
IMPACT. ENGINEERED.

CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	W. BOTES		18 07 25
CHECKED	H. VAN DER MERWE		18 07 25
DESIGNED	STANDARD DETAILS		18 07 25
CHECKED	H. VAN DER MERWE		18 07 25

PR.ENG. / PR.TECH./PR. ARCH

NAME	H. VAN DER MERWE	DATE
SIGNATURE		18 07 25
REG. NUMBER	20127/2225	
TITLE	Pr. Tech/ENG	

TRANSNET NATIONAL PORTS AUTHORITY

TITLE	NAME	SIGN	DATE
DRAWN			
CHECKED			
DESIGNED			
CHECKED			

PR.ENG. / PR.TECH./PR. ARCH

NAME		DATE
SIGNATURE		
REG. NUMBER		
SCALE	AS SHOWN	

TRANSNET

Transnet National Ports Authority
TRANSNET SOC Ltd : REG No. 1990/000900/30
NEWARK ROAD
RICHARDS BAY
TEL: 035 788 0067
PO BOX 181, RICHARDS BAY 3900, SOUTH AFRICA

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF RICHARDS BAY

PORT ROADS REHABILITATION & UPGRADE
(REPAIRS TO PORT ROADS)
GUARDRAIL DETAILS: ARMCO

PAPER SIZE	TRANSNET DRW. NO.	REV.
A0	TBC	E2
	PROJECT DRG. NO.	REV.
	1006614-DRG-09-UR-CC-D006	T2