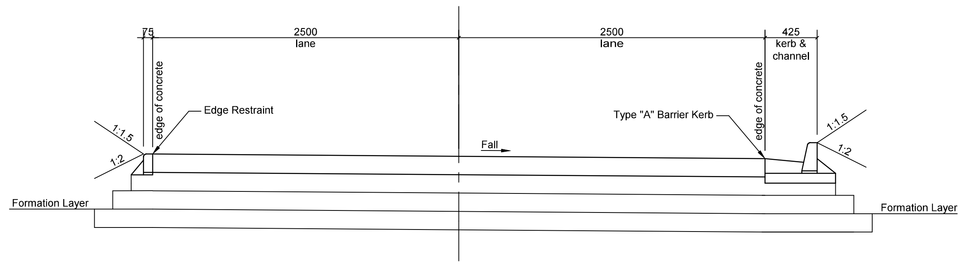
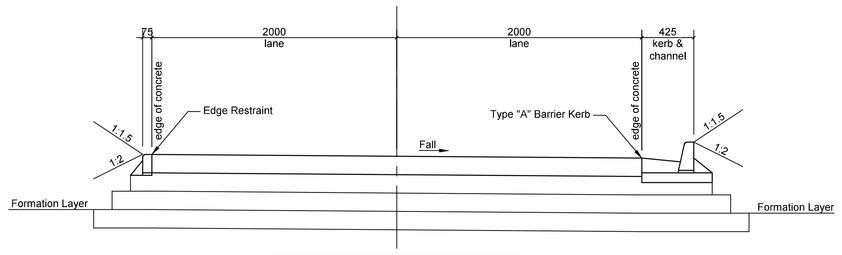
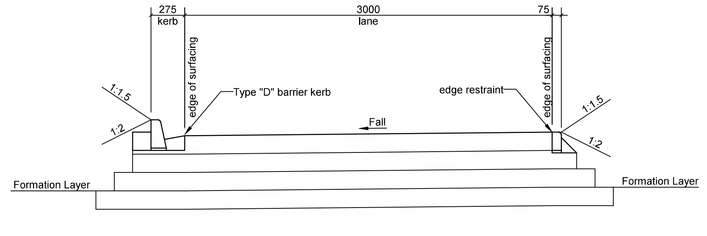


TYPICAL 5.0m CROSS SECTION
ROAD 1 (CONCRETE)
Scale 1 : 25



TYPICAL 4.0m CROSS SECTION
ROAD 2 (CONCRETE)
Scale 1 : 25



TYPICAL 3.0m CROSS SECTION
ROAD 3 (CONCRETE)
Scale 1 : 25

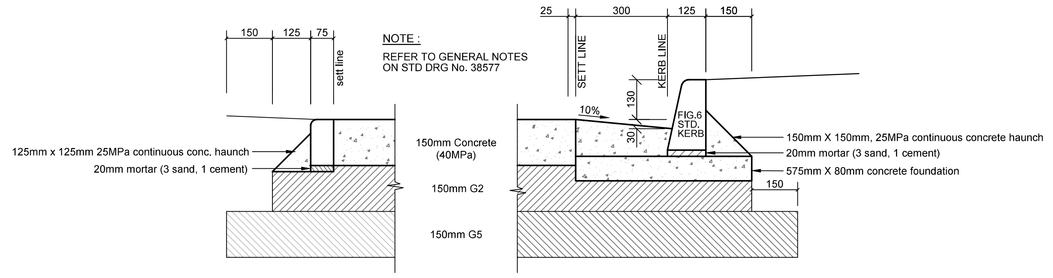
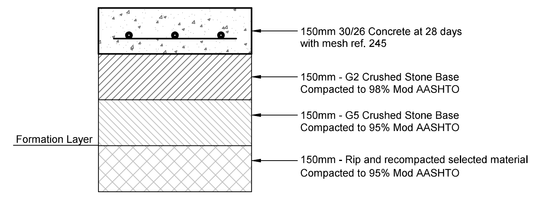
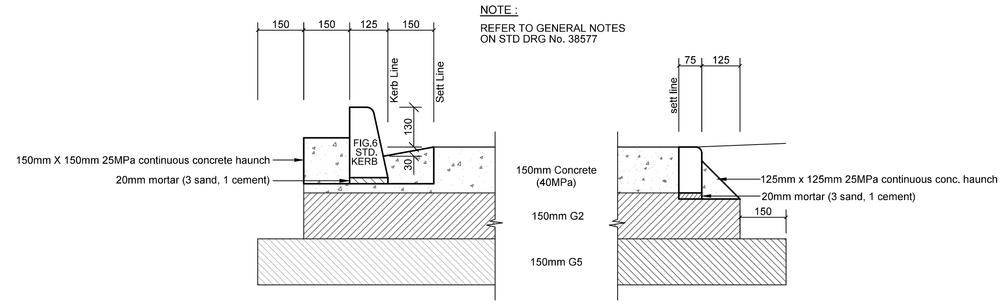


FIG. 12 KERB - EDGE RESTRAINT
Scale 1 : 10

TYPE A : BARRIER KERB AND
CAST IN SITU CHANNEL
Scale 1 : 10

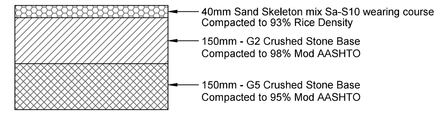


PAVEMENT DESIGN LAYERS
Scale 1 : 10



TYPE D : BARRIER KERB CAST
INSITU CHANNEL
Scale 1 : 10

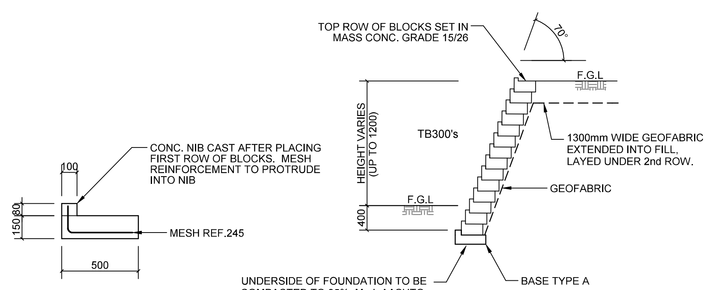
FIG. 12 KERB - EDGE RESTRAINT
Scale 1 : 10



ASPHALT PAVEMENT DESIGN LAYERS
Scale 1 : 10

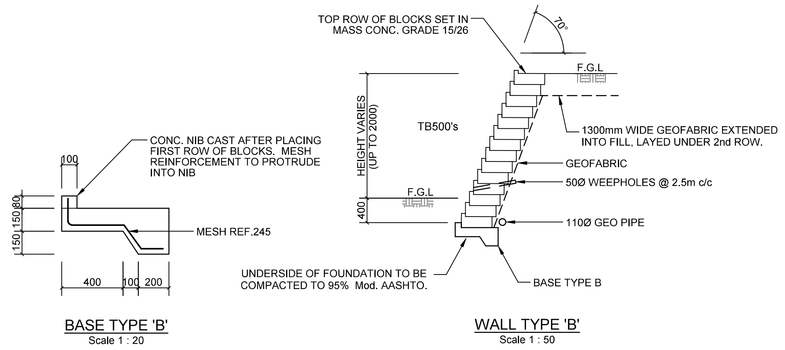
RETAINING WALL NOTES :

1. BLOCK TYPE : GRINAKER "TERRACE BLOCK" OR SIMILAR APPROVED.
2. ALL FOUNDATION TRENCHES TO BE APPROVED BY THE ENGINEER ON SITE PRIOR TO CASTING OF CONCRETE.
3. BOTTOM ROW OF BLOCKS TO BE PLACED WHILE THE BASE CONCRETE IS STILL WORKABLE.
4. FILL BEHIND WALL TO BE COMPACTED TO 95% MOD AASHTO.
5. CONCRETE IN WALL BASE - GR. 25/26 OR AS SPECIFIED
6. STABILISED FILL - 12:1 CLEAN COARSE SAND : CEMENT , WELL RAMMED BETWEEN BLOCKS, IN BLOCKS AND 500mm BEHIND BLOCKS AS DETAILED.
7. MINIMUM OF 8 BLOCKS TO BE LAYED PER SQ M.
8. CONTRACTOR TO MAKE ALLOWANCE FOR +/- 70mm "STEP BACK" WITH EACH 180mm STEP UP WHEN SETTING OUT THE BASE.
9. CONTRACTOR TO REFER TO DETAILED SURVEY DRAWINGS FOR THE LOCATION OF SERVICES, PROPERTY BOUNDARIES ETC.
10. LEVELS AND DIMENSIONS INDICATED ON THIS DRAWING ARE ONLY A GUIDE AND THESE NEED TO BE CONFIRMED BY THE ENGINEER ON SITE.
11. POSITION OFF ALL RETAINING WALLS TO BE CONFIRMED BY ENGINEER ON SITE.



BASE TYPE 'A'
Scale 1 : 20

WALL TYPE 'A'
Scale 1 : 50



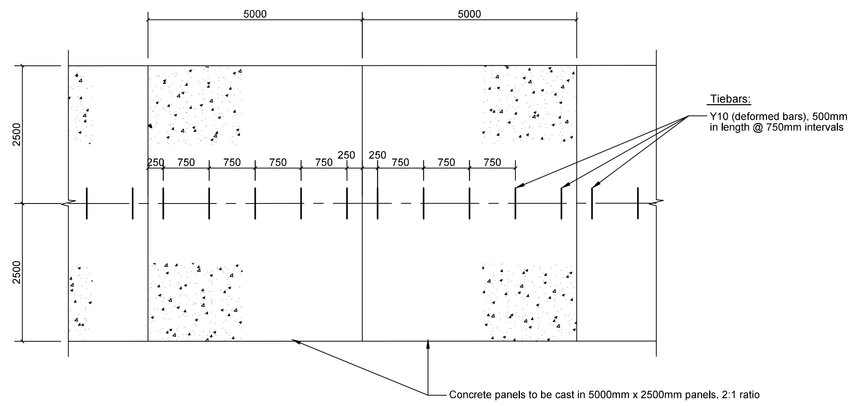
BASE TYPE 'B'
Scale 1 : 20

WALL TYPE 'B'
Scale 1 : 50

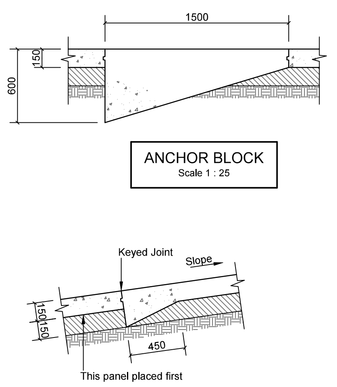
TYPICAL SECTION FOR RETAINING WALL

CONCRETE PAVEMENT NOTES :

1. CONCRETE SHALL BE CAST IN ALTERNATE PANELS WITH CONSTRUCTION JOINTS BEING FORMED BOTH LONGITUDINALLY AND TRANSVERSELY.
2. PANELS COMMENCING AT THE LOWEST POINT (CHAINAGE 0) AND PROCEEDING UP THE SLOPE/GRADIENT.
3. PANEL ANCHORS ARE LOCATED AT EVERY PANEL.
4. ANCHOR BLOCKS ARE LOCATED AT BOTTOM END OF THE GRADE (CHAINAGE 0) AND AT 30m INTERVALS THEREAFTER UP THE SLOPE/GRADIENT. (TO BE CONFIRMED BY ENGINEER ON SITE)
5. EXCAVATION FOR PANEL ANCHORS/ANCHOR BLOCKS TO BE THROUGH THE COMPACTED CRUSH STONE BASE LAYER.
6. TRANSVERSE JOINTS TO BE KEYED (BUT NOT DOWELLED) AS DETAILED.
7. LONGITUDINAL JOINTS TO BE KEYED AND DOWELLED. TIEBARS SHOULD BE Y10 (DEFORMED BARS), 500mm IN LENGTH @ 750MM INTERVALS. KEY DIMENSIONS AS SHOWN IN KEY DETAIL.
8. NON RECTANGULAR PANELS OR PANELS ENCOMPASSING MANHOLES SHOULD BE REINFORCED WITH MESH REF. 395.
9. THE SURFACE SHOULD BE ROUGHENED WITH A LIGHT PASS OF A STIFF BRISTLED BROOM APPLIED TRANSVERSELY ACROSS THE WIDTH OF THE ROAD TO CREATE STRIATIONS OF ABOUT 1.5mm TO 3.0mm IN DEPTH.

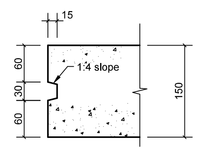


CONCRETE PANEL LAYOUT
Scale 1 : 50



ANCHOR BLOCK
Scale 1 : 25

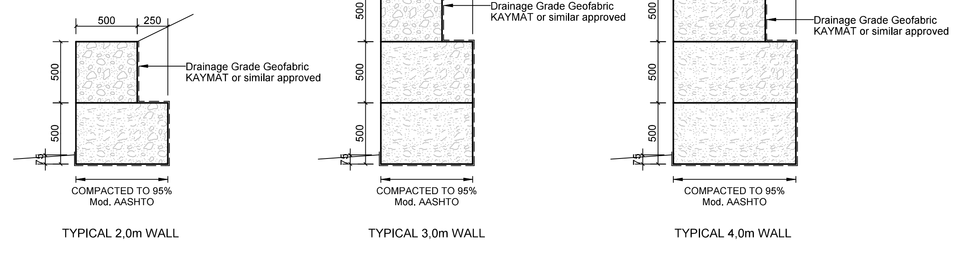
PANEL ANCHOR
Scale 1 : 25



TRANSVERSE & LONGITUDINAL
KEY DETAIL
Scale 1 : 5

NOTES (GABION WALLS) :

1. THE GABION DESIGN SHOWN IS TYPICAL. EACH APPLICATION OF GABION BOXES SHALL BE DESIGNED BY THE PLANNING OR ENGINEER TO SUIT THE SPECIFIC CONDITIONS PREVAILING.
2. FOUNDATIONS TO BE STEPPED AND PREPARED AS INSTRUCTED BY THE ENGINEER.
3. GEOTEXTILE FABRIC TO BE GRADE C OR SIMILAR AS INSTRUCTED BY THE ENGINEER.
4. ALL WIRE USED IN THE MAKING OF GABIONS SHALL BE GALVANISED IN ACCORDANCE WITH THE PROVISIONS SABS 1580:1993 FOR CLASS A HEAVY GALVANISED MILD-STEEL WIRE.
5. THE STANDARD SIZES OF GABIONS ARE AS FOLLOWS :
   LENGTH : 1.0m , 2.0m , 3.0m & 4.0m
   WIDTH : 1.0m & 1.5m
   DEPTH : 0.5m & 1.0m
   DIAPHRAGM SPACING : 1.0m
6. LACING AND BRACING TO BE DONE IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.



TYPICAL DETAILS OF GABION RETAINING WALLS OF VARIOUS HEIGHTS
Scale 1 : 50

FOR TENDER PURPOSES ONLY

New Road Area ..... m²

Unsurfaced to Surfaced ..... km's

AS BUILT

Date ..... Sign .....

eTHEKWINI
MUNICIPALITY

ENGINEERING UNIT
ROADS PROVISION DEPARTMENT

PLAN DESCRIPTION	DWG. NO.	
CONTINUED FROM		
CONTINUED ON		
CROSS SECTIONS		
TYPICAL CROSS SECTION		
SURVEY LAYOUT		

REDUCED PLAN USE SCALE BELOW

0 10 20 30 40 50 60 70

70mm ON ORIGINAL PLAN

DRAWN IN ALLYWINDOWS

WG31

Revision	Date	Description

NOTE:
No construction work to commence until land and servitude acquisitions have been completed

Acquisitions completed

Date Engineer

NORTH POINT

UNDERGROUND SERVICES CHECKED

SERVICE	DATE	SIGNATURE
S.W.DRAINS		
SEWERS		
WATER MAINS		
G.P.O.CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
OIL PIPE LINE		

NOTE:
Only underground services affected by new construction work are shown. Care must be taken during excavations for road foundations, trenches etc., to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

Contract No. 3R-48657

Project Title

UPGRADING OF TRK 99587 AT THE LOWER MOLWENI AREA IN WARD 9 OUTER WEST

Drawing Title

TYPICAL DETAILS

Scales	Reference
AS SHOWN	
Designed: Z.SKOSANA	Date: 16 NOVEMBER 2021
Checked: S.CHETTY	Drawn in AllyWindows by: D.NAIDOO

Manager RD (S)

D/H : RP

G.Evans Head : Engineering

Drawing No 49034

Sheet 02 of 07 Sheets