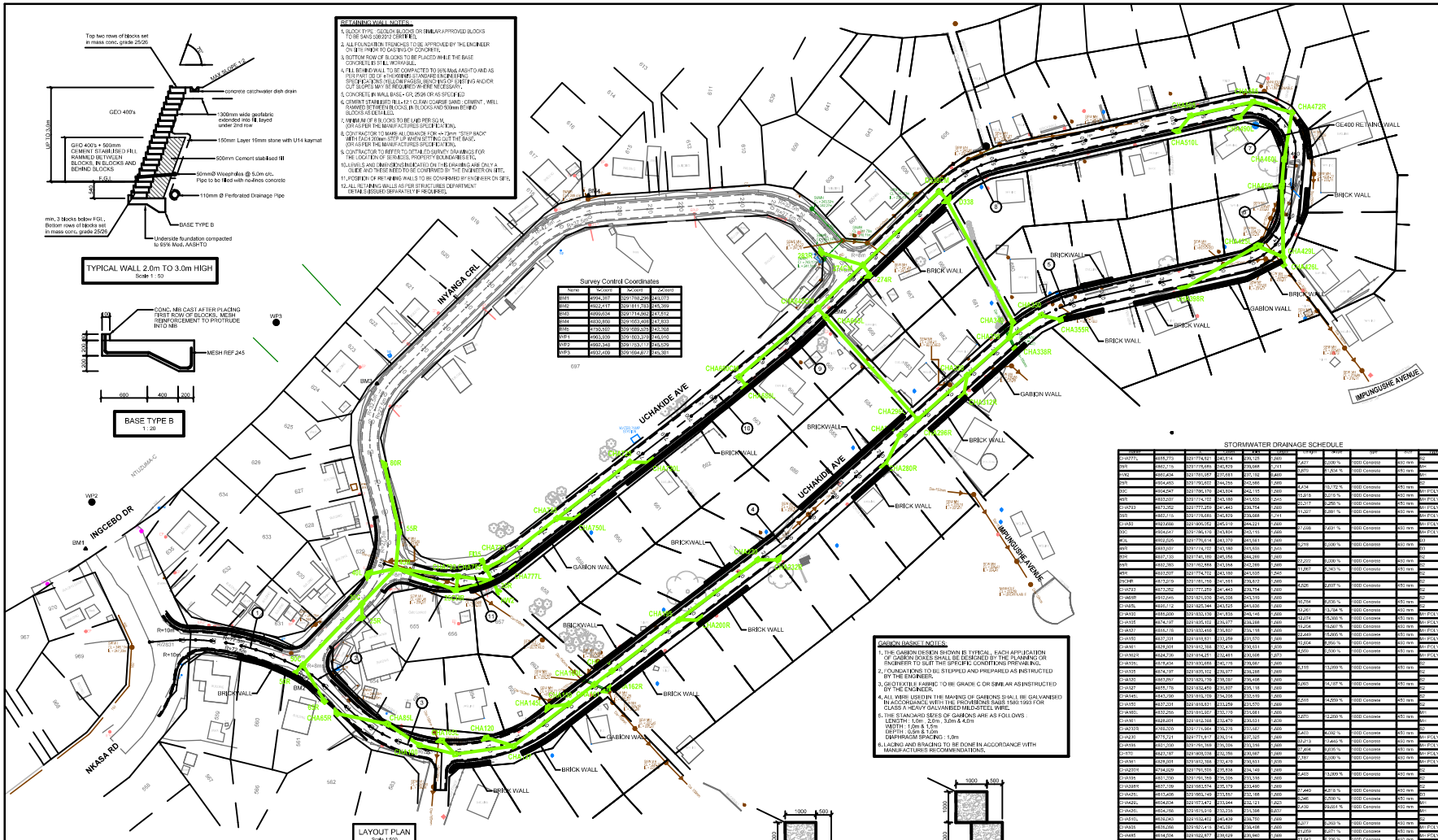

RETAINING WALL NOTES:
1. BLOCK TYPE: ISITEK BLOCKS OR SIMILAR APPROVED BLOCKS TO BE SANS 1200 D/2 (CENTRE FILL)
2. ALL FOUNDATION TRENCHES TO BE APPROVED BY THE ENGINEER ON SITE PRIOR TO CASTING OF CONCRETE.
3. BOTTOM ROW OF BLOCKS TO BE PLACED WHILE THE BASE CONCRETE IS STILL WORKABLE.
4. FILL BEHIND WALL TO BE COMPACTED TO 95% Mod. AASHTO AND AS PER PART 2(D) OF eTHEKWINI'S STANDARD ENGINEERING SPECIFICATIONS. YELLOWFISH EQUIPMENT OR EXISTING AND/OR CUT SLOPES MAY BE REQUIRED WHERE NECESSARY.
5. CONCRETE IN WALL BASE - GR. 25/9B OR AS SPECIFIED.
6. CEMENT STABILISED FILL = 12:1 (CRM COARSE SAND : CEMENT , WELL RAMMED BETWEEN BLOCKS, IN BLOCKS AND 500mm BEHIND BLOCKS AS DETAILED.
7. MINIMUM OF 9 BLOCKS TO BE LAID PER SQ.M. (OR AS PER THE MANUFACTURES SPECIFICATION).
8. CONTRACTOR TO MAKE ALLOWANCE FOR ++ 72mm "STEP BACK" WITH EACH 200mm STEP UP WHEN SETTING OUT THE BASE. (OR AS PER THE MANUFACTURES SPECIFICATION).
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 OF RETAINING WALLS TO BE CONFIRMED BY ENGINEER ON SITE.
12. ALL RETAINING WALLS AS PER STRUCTURES DEPARTMENT DETAIL SUBSIDY DEPARTMENT IF REQUIRED.
Top two rows of blocks set in mass conc. grade 25/26
1(V):3(H) SLOPE
concrete catchwater dish drain
GEO 400's
300mm wide geofabric extended into fill, layed under 2nd row
150mm Layer 16mm stone with U14 kaymat
GEO 400's + 500mm CEMENT STABILISED FILL RAMMED BETWEEN BLOCKS, IN BLOCKS AND BEHIND BLOCKS
500mm Cement stabilised fill
50mmØ Weepholes @ 5.0m ctc.
Pipe to be filled with no-fines concrete
110mm Ø Perforated Drainage Pipe
BASE TYPE B
Underside foundation compacted to 95% Mod. AASHTO
min. 3 blocks below FGL. Bottom rows of blocks set in mass conc. grade 25/26
TYPICAL WALL 2.0m TO 3.0m HIGH
Scale 1 : 50
CONC. NIB CAST AFTER PLACING FIRST ROW OF BLOCKS. MESH REINFORCEMENT TO PROTRUDE INTO NIB
MESH REF 245
BASE TYPE B
1 : 20
Survey Control Coordinates
Name | N-Coord | E-Coord | Z-Coord
BM1 4694.367 329779.254 241.073
BM2 4922.417 329811.783 245.399
BM3 4999.634 329714.992 247.512
BM4 5030.850 329 653.468 247.803
BM5 4750.850 329 689.258 242.768
WP1 4963.339 329 803.378 246.910
WP2 4992.346 329 753.717 245.529
WP3 5032.459 329 694.817 245.381
INYANGA CRL
UCHAKIDE AVE
INGCEBO DR
NKASA RD
IMPUNGUSHE AVENUE
BRICK WALL
GABION WALL
BRICKWALL
LAYOUT PLAN
Scale 1:500
GABION BASKET NOTES:
1. THE GABION DESIGN SHOWN IS TYPICAL. EACH APPLICATION OF GABIONS 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 1580:1093 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 : 0.5m & 1.0m
DIAPHRAGM SPACING : 1.0m
6. LACING AND BRACING TO BE DONE IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.
1000
500
N.G.L
Drainage Grade Geofabric KAYMAT or similar approved
COMPACTED to 95% Mod. AASHTO
50mm Blinding
TYPICAL WALL UPTO 3.0m
TYPICAL WALL OVER 3.0m
TYPICAL DETAILS OF GABION RETAINING WALLS OF VARIOUS HEIGHTS
Scale 1 : 50
1000 wedge
425 kerb
2500 lane
2500 lane
425 kerb
1500 sidewalk
edge of surfacing
edge of surfacing
Type 'B' Barrier Kerb
Type 'B' Barrier Kerb
25mm mix "A"
150mm G4
Fall
Fall
1:12
1:12
TYPICAL CROSS SECTION
Scale 1 : 20
1500 specified sidewalk
300
125
150
kerb
4% fall
4% fall
40mm Se-S14
150mm G4
150mm G7
150mm x 150mm continuous conc. haunch
20mm Mortar - (3 sand, 1 cement)
25mm asphalt mix "A"
100mm compact crusher-run (G2)
TYPE 'B' FIG.6 BARRIER KERB CAST IN SITU FILLET/CHANNEL, WITH 1.5m SIDEWALK
Scale 1 : 10
NOTE:
1. Approved weedkiller to asphalted areas to be sprayed on compacted in-situ or imported layer.
40mm - AC Asphalt mix "Sa - S14" Wearing Course Compacted to 93% Rice Density
150mm - G4 Graded Crushed Stone Base Compacted to 98% Mod AASHTO
150mm - G7 Selected Gravel Compacted to 95% Mod AASHTO
PAVEMENT DESIGN LAYERS
Scale 1 : 10
B.O.E. Reinforced
Backfill
Geogrid Layer
Reinforced Soil Mass
Geogrid Layer
Backfill
Reinforced Soil Mass
VERTICAL BRICK RETAINING WALL
Scale 1 : 50
NOTE:
RETAINING WALL DETAILS AS SHOWN ON STANDARD DRAWING No. 38581
VERTICAL RETAINING WALL NOTES:
1. Brickwork to be in English Bond grouted up solid.
2. Weepholes consisting of 75mm Dia. A.C. pipes are to be provided at 1250 ctc. hor. & 900 ctc vert. Weepholes are to be backed by a 300 X 300 X 300mm re-fines concrete block.
3. Concrete mix, to be Grade 20 / 26.
4. Front face of walls are to consist of first quality red face bricks unless otherwise specified.
5. Face bricks are to be laid in stretcher bond and shall be tied into the rear brickwork with "Brickforce" every 3rd course.
6. Vertical expansion joints are to be formed through the brickwork at +- 30m centers.
UCHAKIDE AVE CENTRE LINE CURVE DATA DETAILS
Radius | Y | X | CH
PI0 | 5911.658 | 5291796.845 | 0
CC01 | 5902.648 | 5291796.707 | 9.010
PI1 | 5845.832 | 5291795.770 | 65.839
CC02 | 5825.419 | 5291794.775 | 85.201
CC03 | 5825.479 | 5291844.021 | 85.981
PI2 | 5821.418 | 5291906.459 | 152.874
CC04 | 5811.768 | 5291911.631 | 85.982
CC05 | 5804.880 | 5291920.871 | 75.437
PI3 | 5811.780 | 5291980.189 | 136.913
CC06 | 5843.787 | 5291924.248 | 142.289
CC07 | 5795.275 | 5291796.622 | 257.272
PI4 | 5795.276 | 5291796.622 | 257.272
CC08 | 5795.275 | 5291796.622 | 257.272
CC09 | 5804.181 | 5291796.896 | 248.210
PI5 | 5804.181 | 5291796.896 | 248.210
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