

1. GENERAL NOTES

1.1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE LAYOUT DRAWING, LONGITUDINAL SECTION DRAWINGS AND SPECIFICATIONS DOCUMENTED IN THE BILL OF MATERIALS. ANY DISCREPANCIES MUST BE REFERRED TO THE ENGINEER IMMEDIATELY.

1.2 NO SCALING OFF IS PERMITTED. ONLY WRITTEN DIMENSIONS MAY BE DEEMED CORRECT. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.

1.3 ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE SANS 1200 SPECIFICATIONS.

1.4 ALL CUT SLOPES TO BE SHAPED TO 1:1.5 AND FILL SLOPES TO 1:2 UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.

1.5 FILL MATERIAL TO BE COMPACTED IN LAYERS OF MAX. 150mm TO 95% MOD AASHTO. STEPS TO BE FORMED PRIOR TO FILLING. HEIGHT OF STEPS TO BE APPROXIMATELY 500mm LIFTS.

1.6 COMPACTION TESTING TO BE DONE AS FOLLOWS:

(a) 1 TEST PER LAYER FOR EACH 50m LENGTH OF FOOTPATH

1.7 BOLLARDS TO BE CONSTRUCTED ONLY WHEN INSTRUCTED BY THE ENGINEER.

1.8 WHERE THE COVER LEVELS OF THE EXISTING MANHOLES LOCATED BY THE ALIGNMENT OF NEW FOOTPATHS IS HIGHER THAN THE FINISHED DESIGN LEVEL OF THE FOOTPATH, MANHOLE RINGS ARE TO BE CUT SUCH THAT THE NEW MANHOLE COVER IS COMPATIBLE WITH THE LEVEL AND SLOPE OF THE FOOTPATH. EXISTING MANHOLE LIGHT COVERS AND FRAME ARE TO BE REPLACED WITH HEAVY DUTY COVER AND FRAME. EXPOSED REINFORCING MUST BE PAINTED WITH SNA TOP AMATEC 110 EC OR SIMILAR APPROVED.

1.9 THESE DESIGNS OR DRAWINGS ARE NOT TO BE SOLD AND ARE SUBJECT TO RECALL. REPRODUCTION OR COPYING RIGHTS ARE RESERVED SOLELY BY BVI CONSULTING ENGINEERS UNLESS OTHERWISE STATED. THESE DRAWINGS HAVE BEEN ISSUED AND RECEIVED ON THE FOLLOWING CONDITIONS:

(a) THAT THEY ARE NOT USED IN ANY WAY AGAINST THE INTERESTS AND BENEFITS OF BVI

(b) THAT THESE DRAWINGS AND ALL COPIES WILL BE RETURNED TO BVI IMMEDIATELY ON DEMAND

(c) THAT ALL INFORMATION DISCLOSED BY THESE DRAWINGS SHALL BE DEEMED TO BE CONFIDENTIAL.

2. CONCRETE

2.1 CONCRETE WORKS TO COMPLY WITH SANS 1200 SECTION G AND SANS 500 PART 2

2.2 THE FREQUENCY OF CONCRETE WORKS TESTING MUST BE DONE AS FOLLOWS:

(a) AT LEAST ONE SET (3 NO. CUBES) OF SAMPLES FOR EVERY 50m³ OF CONCRETE PLACED.

(b) AT LEAST ONE SET OF SAMPLES SHALL BE TAKEN FROM EACH DAY CASTING

(c) TESTING MUST BE CARRIED OUT IN ACCORDANCE TO SANS METHOD 901 AND TESTED BY AN APPROVED LABORATORY. RESULTS TO BE SUBMITTED TO THE ENGINEER.

(d) ON THE BASIS OF IMPORTANCE, WHERE DIRECTED BY THE ENGINEER, A SET OF SAMPLES MAY BE REQUESTED.

(e) UNLESS OTHERWISE ADVISED, NO SAMPLE SHALL BE TAKEN IF ANY CONCRETE LINTS IN AT LEAST 1m³ OF SUCH CONCRETE HAS BEEN MIXED AND DISCHARGED FOR THE FOOTPATHS.

2.3 CURING AND PROTECTION SHALL BE ACCORDING TO SANS 500:1980:5.8.1

2.4 ALL CONCRETE TO BE PROPERLY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP AT LEAST 7 DAYS AFTER CASTING.

2.5 CONCRETE POURING WILL ONLY BE DONE UPON THE APPROVAL OF THE SUPERVISING AND FIXING OF THE REINFORCEMENT FOR THE FOOTPATHS/DRAINS

2.6 MIN CONCRETE CURE STRENGTH AT 28 DAYS:

FOOTPATH 20 MPa

DRAIN 20 MPa

KERB BASE AND HAUNCH 20 MPa

STEP CONCRETE BASE 15 MPa

RETAINING WALL BASE 20 MPa

3. FOOTPATH

3.1 FOOTPATH TO BE CAST IN 2m ALTERNATE PANELS WITH 10mm SORTBOARD JOINT AT EVERY 10m CENTRES

3.2 THE FOLLOWING TYPE OF FOOTPATHS ARE TO BE CONSTRUCTED DEPENDING ON THE ASSESSMENT OF THE NATURAL GROUND CONDITIONS:

(a) TYPE A - TO BE CONSTRUCTED WHERE THE INSTU MATERIAL CAN BE COMPACTED TO 95% MOD AASHTO

(b) TYPE B AND C - TO BE CONSTRUCTED WHERE THE MINIMUM COMPACTION OF 95% MOD AASHTO CANNOT BE ACHIEVED FOR THE INSTU MATERIAL

REFER TO LONGSECTION DRAWINGS FOR FOOTPATH TYPE CONSTRUCTION DETAILS.

4. STAIRCASE AND HAND RAILS

4.1 STAIRCASE DESIGN CAN BE USED FOR A MAXIMUM HEIGHT OF 3m.

4.2 PRECAST BASS STEP OR SIMILAR APPROVED IS TO BE USED.

4.3 20MPa/19mm CONCRETE BASE TO BE CONSTRUCTED BELOW STEPS.

4.4 HAND RAILS ARE TO BE INSTALLED UNDER THE FOLLOWING CONDITIONS:

(a) WHERE STAIRCASES EXCEED 5 NO. RISERS

(b) FILL EMBANKMENTS ARE HIGHER THAN 1m

4.5 WHERE STAIRCASES EXCEED 5 NO. STEPS AN ADDITIONAL POSTS MUST BE CONSTRUCTED AFTER EVERY 6 NO. STEPS

5. RETAINING AND GABION WALL

5.1 NEW DRY STACK RETAINING WALL POSITIONS AND HEIGHT WILL BE FINALISED ON SITE.

5.2 THE BOTTOM ROW OF BLOCKS IS TO BE SET IN WET CONCRETE.

5.3 ALL BACKFILL TO BE COMPACTED TO 95% MOD AASHTO DENSITY. UNLESS OTHERWISE AGREED WITH THE ENGINEER, THE CONTRACTOR TO SUPPLY THE ENGINEER WITH RESULTS OF COMPACTION TESTS.

5.4 STORMWATER BEHIND THE TOP OF THE WALL TO BE MANAGED IN SUCH MANNER AS TO PREVENT SCOURING OF THE FILL MATERIAL AND PREVENT THE WALL FROM OVERTURNING.

5.5 BACKFILL TO BE BENCHED IN SUITABLE GROUND.

5.6 FOUNDATION:

(a) ENGINEER TO APPROVE FOUNDING CONDITIONS PRIOR TO CASTING OF CONCRETE.

(b) ALL FOUNDATIONS TO BE CONSTRUCTED ON SOUND INSTU MATERIAL. NO FOUNDATION WILL BE ALLOWED ON ANY FILL MATERIAL.

(c) TOP OF FOUNDATION LEVEL TO BE MIN 300mm BELOW FINISHED GROUND LEVEL.

5.7 GABION WALLS TO BE CONSTRUCTED AS PER ENGINEERS INSTRUCTIONS.

6. STANDARD BOLLARD

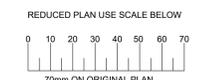
6.1 CONCRETE GRADE TO BE 20MPa/13mm

6.2 FINISH - SMOOTH WITH BOTTOM FACE BRUSHED

6.3 FOUNDATION CONCRETE IS TO BE GRADE 20MPa/13mm AND IS HAVE A STEEL TOE FINISH.



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



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