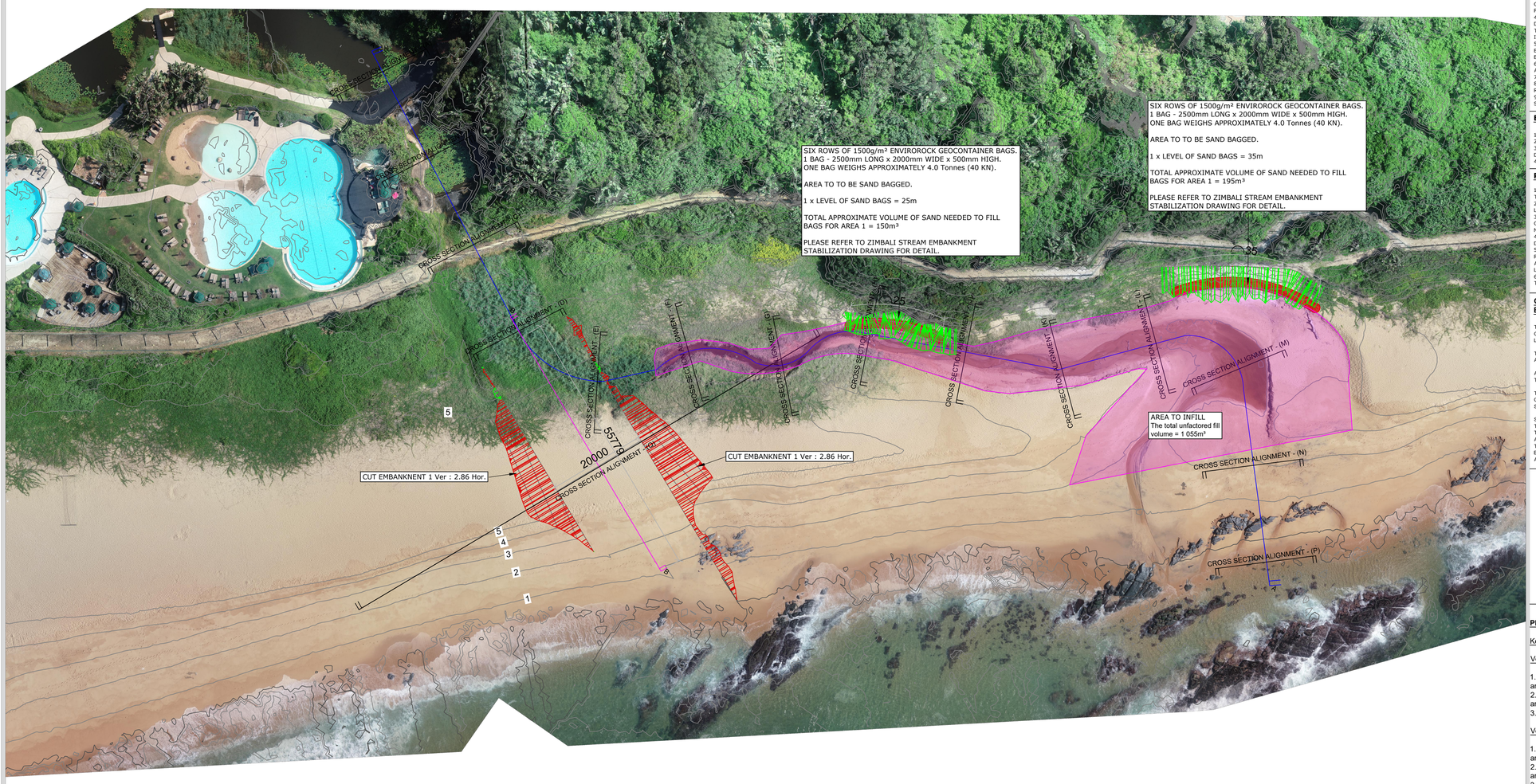

GENERAL PLAN LAYOUT

SCALE 1:500

GENERAL NOTES :

1.0 ALL BUILDING WORKS TO BE IN ACCORDANCE WITH RELEVANT S.A.B.S. BUILDING CODES AND NATIONAL BUILDING REGULATIONS.
2.0 DRAWINGS MUST BE CHECKED BY THE CONTRACTOR. WHERE DISCREPANCIES IN THE DIMENSIONS ARE FOUND THESE MUST BE REPORTED TO THE ENGINEER BEFORE WORK COMMENCES.
3.0 ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECT's DRAWINGS.
4.0 ALL SETTING OUT DIMENSIONS AND LEVELS ARE TO BE DONE AS PER THE ARCHITECTS DETAILS.

STORMWATER DRAINAGE :

1.0 ALL RWP TO FEED INTO SOAKAWAYS OR STORMWATER MANAGEMENT SYSTEM AS DETAILED.
2.0 ALL SURFACE RUN-OFF TO BE CHANNELED INTO DETAILED STORMWATER CATCHMENTS. SHOULD NATURAL DRAINAGE CHANNELS BE UTILIZED FOR SURFACE RUN-OFF SUITABLE EROSION PROTECTION MEASURES ARE TO BE CONSTRUCTED.
3.0 THE STORMWATER MANHOLES AND PIPES ARE TO BE CONSTRUCTED DURING THE BULK EARTHWORKS PHASE OF THE PROJECT.
4.0 ALL PERMANENT STORMWATER CATCH-PITS CONSTRUCTED DURING THE INITIAL STORMWATER CONSTRUCTION PHASE ARE TO BE CONSTRUCTED AS TEMPORARY RAISED CATCH PITS IF INSTRUCTED BY THE ENGINEER.
5.0 EARTH BERMS TO BE PLACED ALONG THE TOP OF ALL EARTHWORKS SLOPES / EMBANKMENTS TO MINIMISE SOIL EROSION AND STORMWATER DAMAGE.
6.0 EARTH BERMS MAY BE REPLACED BY STACKED SAND BAGS AS AN ALTERNATIVE.
7.0 SILT TRAPS TO BE CLEARED REGULARLY.
8.0 BERM / SAND BAG PROTECTION OF BANKS TO BE CHECKED REGULARLY FOR DAMAGE.
9.0 THIS DRAWING TO BE READ IN CONJUCTION WITH THE STORMWATER GENERAL DETAIL DRAWING.

EARTHWORKS NOTES :

1.0 MAXIMUM SLOPE OF CUT BANKS : 1:1.5
2.0 MAXIMUM SLOPE OF FILL BANKS : 1:1.5
3.0 ALL FILL MATERIAL TO BE COMPACTED TO 93% MOD AASHTO DENSITY IN LAYERS NOT EXCEEDING 200mm LOOSE THICKNESS.
4.0 MAXIMUM TEMPORARY CUT BANKS TO BE 1:1

PLACEMENT OF FILL NOTES :

1.0 ALL EXISTING GRASS & TOPSOIL TO BE STRIPED & REMOVED TO STOCKPILE.
2.0 SELECTED G7 FILL MATERIAL TO BE PLACED IN 200mm THICK LAYERS.
3.0 MINIMUM GRADE OF SELECTED FILL MATERIAL TO BE OF G7 QUALITY, SHALL BE CLEAN, COHESIONLESS MATERIAL WHICH IS NON PLASTIC AND HAS LESS THAN 10% SILT AND CLAY.
4.0 ALL LAYERS TO BE COMPACTED TO 93% MOD AASHTO DENSITY.
5.0 THE CONTRACTOR IS TO SUPPLY TROXLER DENSITY TEST RESULTS BY AN INDEPENDENT LABORATORY ON A 10.0m GRID ALONG THE TOP OF EARTHWORKS AND ALL SELECTED FILL LAYERS. SEE COMPACTION DENSITY TEST NOTES.
6.0 ALL FILL TO BE BENCHES INTO THE IN-SITU MATERIAL THROUGH 1200mm WIDE x 300mm DEEP BENCHES.

COMPACTION DENSITY TESTS TO EARTHWORKS LAYERS :

TROXLER DENSITY TESTS ARE TO BE PERFORMED ON A 10m GRID ON EACH LAYER BY AN INDEPENDENT APPROVED SOILS LABORATORY.

THE TEST RESULTS ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE PLACEMENT OF THE NEXT LAYER.

ANY AREA FAILING THE TEST IS TO BE REWORKED AND RETESTED TO ACHIEVE THE REQUIRED DENSITY.

THE COSTS OF THE TESTS ARE TO BE INCLUDED IN THE CONTRACTORS TENDER PRICE AND INDICATED AS SUCH AS A SEPARATE ITEM.

SHOULD THE CONTRACTOR FAIL TO SUPPLY TEST RESULTS PRIOR TO THE PLACEMENT OF THE NEXT LAYER, THE UNTESTED LAYER IS TO BE EXPOSED AT THE STATED NUMBER OF PLACES AND TESTED AS REQUIRED. SHOULD THESE TESTS INDICATE A FAILURE TO MEET THE REQUIRED DENSITIES, THE CONSTRUCTOR SHALL AT HIS OWN EXPENSE REMOVE THE UPPER LAYER AND REWORK THE FAILED AREAS TO THE ENGINEERS SATISFACTION.

PROPOSED BULK EARTHWORKS SUMMARY :

Key Bulk Earthworks Platform Considerations:

Volumes for spill way cut.

1.0 The total unfactored cut volume over the plan area : 6 300m² = 1 632m³
2.0 The total unfactored fill volume over the plan area : 6 300m² = 27m³.
3.0 The total unfactored cut to spoil = 1 605m³.

Volumes for infill area.

1.0 The total unfactored cut volume over the plan area : 2 335m² = 0m³
2.0 The total unfactored fill volume over the plan area : 2 335m² = 1 055m³.
3.0 The total unfactored cut to fill = 1 055m³.

DRAWING LIST:

Dwg. No.	Description Beskrywing
10	
09	
08	
07	
06	
05	
04	
03	
02	OPTION TWO - LONG & CROSS SECTIONS
01	OPTION TWO - GENERAL LAYOUT

Rev. Her.	Description Beskrywing	Date Datum	By Deur
03	ISSUED FOR PRELIMINARY USE	25/06/2020	S.E.
02	ISSUED FOR PRELIMINARY USE	02/06/2020	S.E.
01	ISSUED FOR PRELIMINARY USE	10/05/2020	S.E.

AMENDMENTS/WYSIGING

SERVICE / DIENS: PRELIMINARY

DESIGNED/ONTWERP	R. SHUTTELWORTH
DRAWN/GETEKEN	S. EKSTEEN
CAD FILE NAME/CAD LÊER NAAM	Zimbali Civil's.dwg
CHECKED/NAGESIEN	R. SHUTTLEWORTH
APPROVED/GOEDGEKEUR	

MONOBLOCK
STRUCTURAL/CIVIL/RESIDENTIAL
CK 99/59460/23
P.O. Box 143
UMHLALI
4390
Tel : (032) 9470716
Fax : (032) 9470719
www.monoblock.co.za

CLIENT / KLIËNT: ZIMBALI

PROJECT / PROJEK: STORMWATER DISCHARGE

PROJECT NO / PROJEK NO: RM

TITLE / TITEL: **OPTION TWO - SANDBAGGED CHANNEL GENERAL LAYOUT**

DATE/DATUM	JUNE 2020
SCALE/SKAAL	AS SHOWN

SCALE REF / SKAAL VERWYS: 4.0 2.0 0 2.0 4.0 / 3.0 1.0 1.0 3.0 meter

CONSULTANT DWG. NO. / KONSULTANT TEK. NR.: 01

CLIENT DWG. NO. / KLIËNT TEK. NO.: