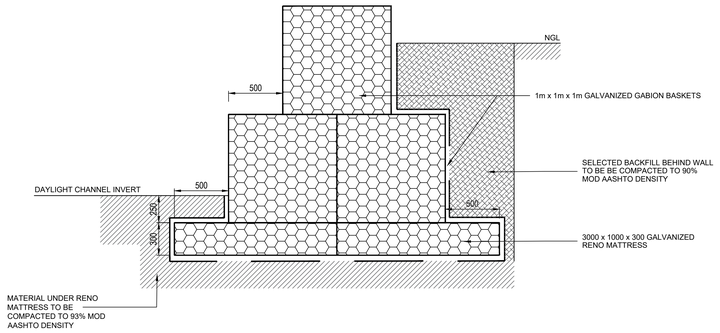
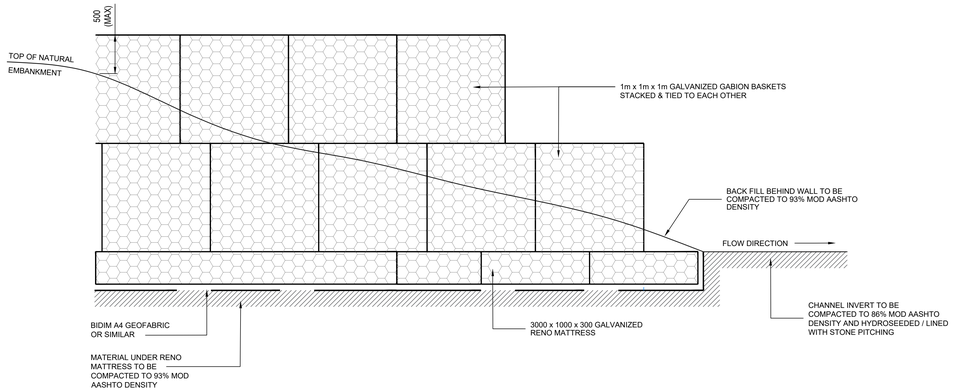


SECTION THOURGH WALL (SECTION A-A)

SCALE 1:20



SIDE ELEVATION

SCALE 1:20

1000 MIN

A:GENERAL

A1: ALL DIMENSIONS SHOWN ARE IN MILLIMETRES U.N.O
ALL REDUCED LEVELS ARE IN METRES.

A2: THE OWNER OR OWNERS REPRESENTATIVE IS RESPONSIBLE FOR REVIEWING AND VERIFYING THAT THE ACTUAL SITE CONDITIONS ARE AS DESCRIBED PRIOR TO AND DURING CONSTRUCTION.

A3: ALL PLAN DIMENSIONS MUST BE VERIFIED BY THE CONTRACTOR. THE PROJECT ENGINEER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE THE CONTRACTOR BEGINS WITH WORK.

A4: STRUCTURES SUCH AS BUILDING FOOTINGS, SWIMMING POOLS, RETAINING WALLS, STORAGE OR SOLID PANEL FENCING MUST BE KEPT CLEAR SUCH THAT THE LOAD IS NOT PLACED BETWEEN A LINE PROJECTED BEHIND THE WALL FROM THE FOUNDING LEVEL AT 1V : 1H AND THE WALL.

A5: PRECAUTIONS MUST BE TAKEN WHERE OTHER BUILDING WORK, SERVICE TRENCHES, GARDEN BEDS ETC. MAY BE EXCAVATED IN FRONT OF THE WALL.

A6: WHERE A SAFETY FENCE IS REQUIRED BY COUNCIL IT SHALL BE SET BACK A MINIMUM OF 600 mm FROM THE TOP OF THE WALL.

A7: MACCAFERRI GABION WALLS MAY BE DESIGNED AS EITHER MASS GRAVITY OR SEMI-GRAVITY STRUCTURES. DETAILED DESIGN ADVICE MAY BE SOUGHT FROM MACCAFERRI PTY LTD.

B: GABION ROCK INFILL

B1: SUPPLY GABION ROCK OF IGNEOUS ORIGIN WHICH IS DENSE, CLEAN, HARD AND FREE FROM DEFECTS, CRACKS, SEAMS, CLEAVAGE PLANES, WEATHERING, DEGREDATION AND PERVASIVE CHEMICAL ALTERATION THAT WILL AFFECT ROCK DURABILITY. ROCK MAY BE EITHER QUARRIED ROCK OR SELECTED RIVER COBBLE.

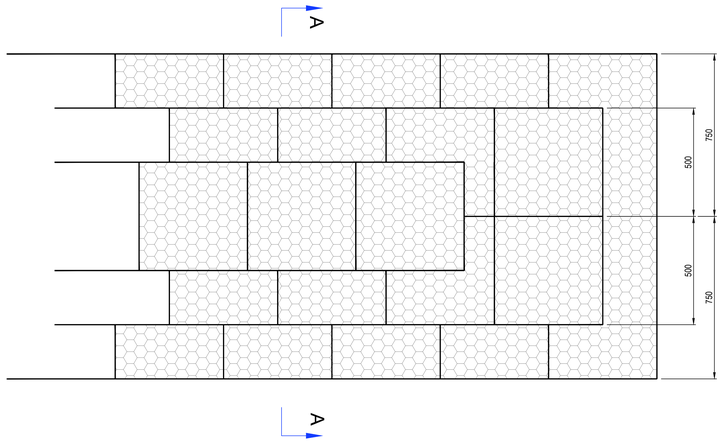
B2: SUPPLY ROCKFILL MEETING THE QUALITY CRITERIA AS SPECIFICED BELOW:

B2.1 DIMENSIONS
SUPPLY ROCK GENERALLY UNIFORM IN SHAPE, FREE FROM ELONGATED FLAT OR FLAKY PIECES. THE ROCKFILL SHALL HAVE NO MORE THAN 10% MIS-SHAPEN PARTICLES. THE DEFINITION OF MIS-SHAPEN PARTICLES SHALL BE AS DETERMINED BY TEST METHOD AS1141.14 (CALIPER RATIO 3:1).

B2.2 DURABILITY
THE ROCK SUPPLIED SHALL BE TESTED IN ACCORDANCE WITH AS1141.22 FOR WET/DRY STRENGTH VARIATION. THE ROCK TESTED SHALL BE REPRESENTATIVE OF THE ROCK TO BE SUPPLIED AS SHALL HAVE A MINIMUM DRY STRENGTH OF 200kN AND A MINIMUM WET STRENGTH OF 100kN. THE MAXIMUM WET/ DRY STRENGTH VARIATION SHALL BE NO MORE THAN 50%.

B2.3 GRADING
SUPPLY ROCKFILL WHICH IS UNIFORMLY GRADED BETWEEN A MAXIMUM OF GENERALLY 200mm (BUT NO MORE THAN 250mm) AND A MINIMUM OF NOT GREATER THAN 10% FINER THAN 75mm.

B2.4 FREQUENCY OF TESTING
THE SUPERINTENDANT SHALL WITH DUE REGARD TO THE CONTRACT NOMINATE THE FREQUENCY AND COMPLIANCE REQUIREMENTS FOR THE ROCKFILL. ALL ROCKFILL NOT MEETING THE REQUIREMENTS OF THE SPECIFICATION WILL BE REJECTED. ALL REJECTED ROCKFILL SHALL BE DISPOSED OF IN AN APPROVED MANNER AT THE EXPENSE OF AND BY THE CONTRACTOR.



PLAN VIEW

SCALE 1:20

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
E1	FOR TENDER	RR	HVDM	HVDM	18 07 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	R. RANGE		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	201270209	
TITLE	Pr. TechENG	

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 AFIRCA

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF RICHARDS BAY

PORT ROADS REHABILITATION & UPGRADE
(REPAIRS TO PORT ROADS)
ROAD DRAINAGE
GABION DETAILS

PAPER SIZE	TRANSNET DRW. NO.	REV.
A0	TBC	E1
	PROJECT DRG. NO.	REV.
	1006614-DRG-14-NW-CC-D013	T1