



- GENERAL NOTES:**
- THIS DESIGN WAS ENGINEERED BY:  
SEA PROJECTS AND ENGINEERING (PTY) LTD
- ALL MATERIALS AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS PROJECT SPECIFICATIONS.
  - ALL DIMENSIONS IN MILLIMETERS.
  - ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
  - ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR MUNICIPAL CIVIL ENGINEERING WORKS.
  - FINAL POSITION TO BE DETERMINED ON SITE.
  - ALL CONCRETE MIXES TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
  - EXCAVATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
  - ALL MASS CONCRETE TO BE 15MPa/19 UNLESS STATED OTHERWISE BY THE ENGINEER.
  - BENCHING SHALL BE FINISHED WITH A 20mm DOLOMITIC LAYER PLACED WHILE CONCRETE IS STILL GREEN AND STEEL FLOAT TO SMOOTH FINISHED.
  - BACKFILL TO BE DONE WITH G5 MATERIAL COMPACTED IN LAYERS OF 150mm THICK TO 95% MOD ASHTO AT OMC.
  - CHANNELING MUST BE BUILT WITH GLAZED EARTHENWARE OR FIBRE CEMENT CHANNEL RECESSED INTO CONCRETE FOUNDATION.
  - EXCAVATION PRIOR TO TRENCH EXCAVATIONS AND CONFIRM LEVELS.
  - COMPACTION OF BEDDING MATERIAL AROUND PIPE TO BE DONE WITH SPECIAL CARE.
  - ALL PIPES TO BE PRESSURE TESTED TESTED AFTER COMPLETION.

**LEGEND**

▲ Benchmarks	⊥ Sign Post	■ Concrete Paving	— Culvert
⊙ Electric Pole	⊙ Steel Pole	■ Brick Paving	— Drain
⊙ Sign Board	⊙ Slatway	■ Tarmad Road	— Top of pipe
⊙ Fibre Manhole	⊙ Water Valve	■ Dust Road	— Fence
⊙ Lamp Post	⊙ Valve Manhole	■ Diverway	— Bottom Kerb
⊙ Fire Hydrant	⊙ Boltard	■ Railway	— Top Kerb
⊙ Tree	⊙ Wooden Pole	■ Gate	— Minor Contour
⊙ Water Meter	⊙ Water Tank	⊙ Electric Box	— Major Contour
⊙ Sewer Manhole	⊙ Invert Level		
⊙ Unknown Manhole	⊙ Stormwater Manhole		
⊙ Rock			

**DESIGN COORDINATOR APPROVAL:**

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**PROJECT MANAGER APPROVAL:**

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**CLIENT APPROVAL:**

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**REVISIONS**

NO.	DATE	DESCRIPTION	BY:	CHK:	APPR:
A	28/05/2026	ISSUED FOR TENDER	C.K.	M.R.	S.N.

DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:	SCALE:
M.R	C.K	M.R	S.N	29/05/2026	N.T.S

**CLIENT:**



**Maquassi Hills**  
Local Municipality

MAQUASSI HILLS LOCAL MUNICIPALITY  
Private Bag X3  
19 Krugger Street  
Wolmaranstad  
2830

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**PROJECT:**

REPLACEMENT OF ASBESTOS CEMENT BULK AND RETICULATION PIPELINES

**DRAWING TITLE:**

MAKWASSIE RETICULATION LAYOUT

**CONSULTANTS:**

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**RETICULATION LAYOUT**  
1:2000

SIZE:	PROJECT NO.:	DRAWING NO.:	SHEET NO.:	REVISION:
A0	20241003	DRG-CIV-008	01	A