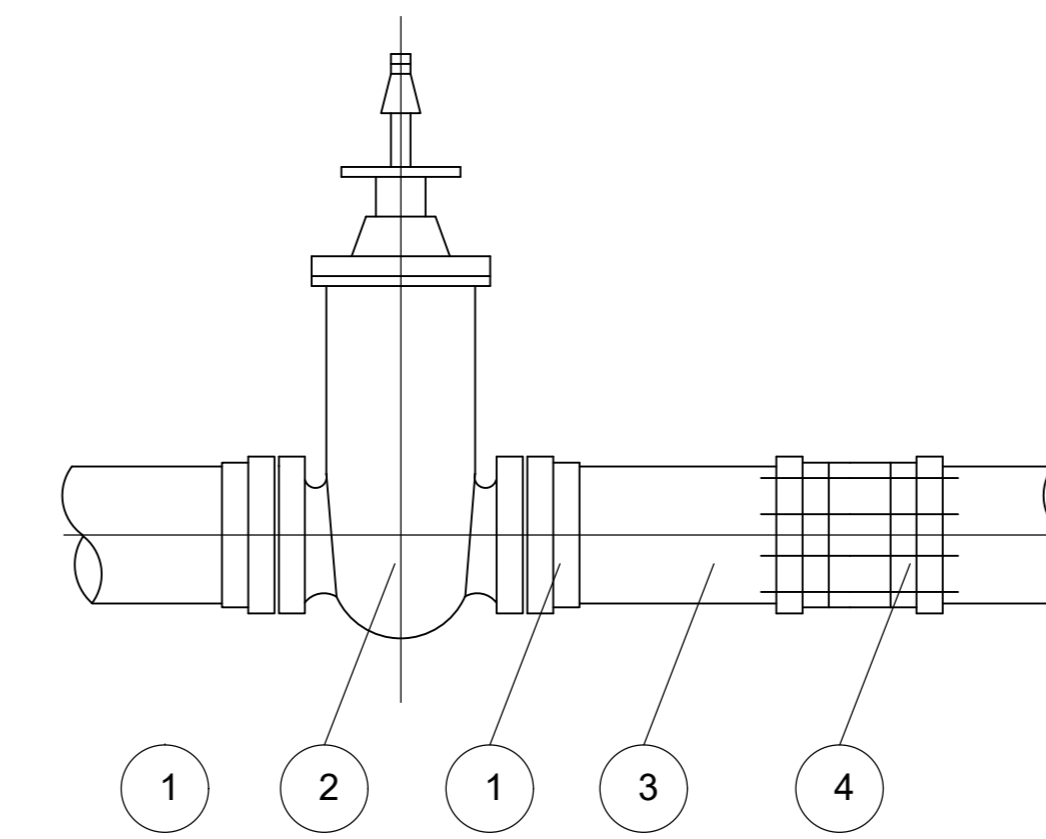


VALVE CHAMBER FOR VALVES NOT EXCEEDING 300mm N.B.

NOTES

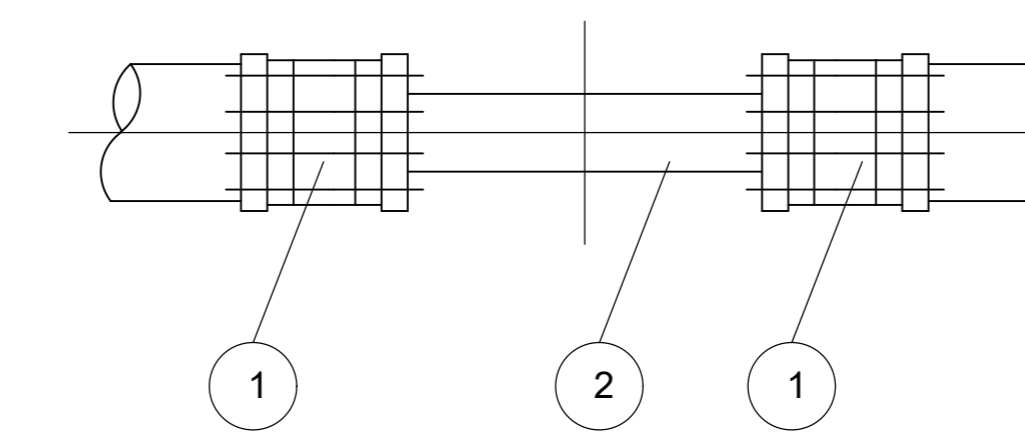
- a) VALVES UP TO 300mm**
- 1) RESILIENT SEAL GATE VALVE
 - 2) NON RISING SPINDLE
 - 3) ANTI CLOCKWISE CLOSING
 - 4) A REMOVABLE COUPLING MUST BE PROVIDED AT ONE SIDE OF THE VALVE AT LEAST 500 mm FROM THE SHAFT. SPECIFICATIONS TO SABS 664
- b) VALVES OVER 300mm**
- 1) WEDGE GATE VALVE
 - 2) A REMOVABLE COUPLING MUST BE PROVIDED AT ONE SIDE OF THE VALVE AT LEAST 500 mm FROM THE SHAFT. SPECIFICATIONS TO SABS 664
- c) PRECAST SEGMENT SPECIFICATIONS**
- 1) ALL MANHOLE SEGMENTS ACCORDING TO SABS 1294-1981
 - 2) TOP SURFACE OF MANHOLE COVER TO BE 50 mm ABOVE THE FINISHED GROUND LEVEL EXCEPT IN PAVED AREAS
 - 3) SEGMENTS TO BE BONDED WITH 1:3 CEMENT MORTAR TO PROVIDE A WATERTIGHT JOINT
 - 4) DIMENSIONS OF SEGMENTS FOR VALVES BIGGER THAN 300 DIA. MUST BE ADAPTED TO FIT VALVE SIZE.
- d) ISOLATION VALVE**
- 1) VALVES UP TO 200mm DIAMETER MAY BE PLAIN ENDED.
 - 2) VALVES OVER 200mm DIAMETER SHALL BE FLANGED.

- SCHEDULE**
1. FLANGE ADAPTOR
 2. FLANGED RESILIENT GATE VALVE
 3. MAKE-UP PIECE
 4. VJ COUPLING



TYPICAL VALVE ASSEMBLY

- SCHEDULE**
1. VJ COUPLING TO SUIT
 2. STEEL FITTING (TEE / REDUCER/ SPECIAL) PLAIN ENDED



TYPICAL FITTING ASSEMBLY

NOTES

- 1) VICTAULIC VALVES AND FITTINGS MAY BE USED AS AN ALTERNATIVE TO THE PROPOSED ASSEMBLY.
- 2) WRITTEN PERMISSION FROM THE ENGINEER MUST BE OBTAINED FOR THE INSTALLATION OF ALTERNATIVES.
- 3) THE INSTALLATION MUST BE OF SUCH A NATURE THAT THE REMOVAL OF VALVES AND FITTINGS FOR MAINTENANCE PURPOSES, CAN EASILY BE EXECUTED.

GENERAL NOTES:

- THIS DESIGN WAS ENGINEERED BY:
SEA PROJECTS AND ENGINEERING (PTY) LTD
1. ALL MATERIALS AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS PROJECT SPECIFICATIONS.
 2. ALL DIMENSIONS IN MILLIMETERS.
 3. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
 4. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR MUNICIPAL CIVIL ENGINEERING WORKS.
 5. FINAL POSITION TO BE DETERMINED ON SITE.
 6. ALL CONCRETE MIXES TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 7. EXCAVATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 8. ALL MASS CONCRETE TO BE 15MPa/19 UNLESS STATED OTHERWISE BY THE ENGINEER.
 9. BENCHING SHALL BE FINISHED WITH A 20mm DOLOMITIC LAYER PLACED WHILE CONCRETE IS STILL GREEN AND STEEL FLOAT TO SMOOTH FINISHED.
 10. BACKFILL TO BE DONE WITH G5 MATERIAL COMPACTED IN LAYERS OF 150mm THICK TO 95% MDD ASHTO AT OMC.
 11. CHANNELING MUST BE BUILT WITH GLAZED EARTHENWARE OR FIBRE CEMENT CHANNEL RECESSED INTO CONCRETE FOUNDATION.
 12. EXCAVATION PRIOR TO TRENCH EXCAVATIONS AND CONFIRM LEVELS.
 13. COMPACTION OF BEDDING MATERIAL AROUND PIPE TO BE DONE WITH SPECIAL CARE.
 14. 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 | ⊕ Staircase | ■ Tarmad Road | — Top of pipe |
| ⊕ Fibre Manhole | ⊕ Water Valve | ■ Dust Road | — Fence |
| ⊕ Lamp Post | ⊕ Valve Manhole | ■ Driveway | — Bottom Kerb |
| ⊕ Fire Hydrant | ⊕ Boltard | ■ Railway | — Top Kerb |
| ⊕ Tree | ⊕ Wooden Pole | ⊕ Gate | — Minor Contour |
| ⊕ Water Meter | ⊕ Water Tank | ⊕ Inset Level | — Major Contour |
| ⊕ Sewer Manhole | ⊕ Stormwater Manhole | ⊕ Electric Box | |
| ⊕ Unknown 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
Private Bag X3
19 Krugger Street
Wolmaranstad
2630

TEL: (018) 596 1068
FAX: (018) 596 1555
WEB: www.maquassihills.co.za

PROJECT:

REPLACEMENT OF ASBESTOS CEMENT BULK AND RETICULATION PIPELINES

DRAWING TITLE:

MAKWASSIE RETICULATION:
TYPICAL DETAILS : ISOLATION VALVE

CONSULTANTS:

SEA PROJECTS AND ENGINEERING



7107 Rosewood Road
Broadacres
Gauteng
2169

TEL NO. : +27(0) 10 143 1687
EMAIL: seane@seaprojects.co.za

| SIZE: | PROJECT NO.: | DRAWING NO.: | SHEET NO.: | REVISION: |
|-------|--------------|--------------|------------|-----------|
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