



**NOTES:(EXIST SERVICES)**

- 1.0 THE POSITION AND LEVEL OF ALL EXISTING SERVICES TO BE CONFIRMED WITH THE ENGINEER BEFORE ANY CONSTRUCTION WORKS CAN COMMENCE.
- 2.0 THE REFERENCE PEGS GIVEN ARE TO BE USED EXCLUSIVELY FOR THIS CONSTRUCTION PROJECT.
- 3.0 THE CONTRACTOR MUST SECURE THE ABOVEMENTIONED REFERENCE PEGS AND TAKE THE NECESSARY STEPS TO PROTECT THEM FOR FUTURE USE.
- 4.0 NO TREES WILL BE DAMAGED OR REMOVED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- 5.0 ALL EXISTING SERVICES TO BE PROTECTED AND TO BE RESTORED TO THE ORIGINAL CONDITION AS FOUND BY THE CONTRACTOR BEFORE THE CONSTRUCTION OF THE NEW PROPOSED CIVIL SERVICES.
- 6.0 ALL THE NECESSARY PRECAUTIONS MUST BE UNDERTAKEN TO REDUCE DUST AND NOISE POLLUTION.
- 7.0 ALL CONSTRUCTION WORKS TO BE SUFFICIENTLY MARKED AND SECURED TO INSURE PUBLIC PROTECTION AND SAFETY.
- 8.0 ALL WORKS TO BE DONE IN ACCORDANCE WITH SABS 1200.

**SEWER NOTES:**

- 1.0 FINAL MANHOLE COVER LEVELS:
  - 1.1 IN ROAD RESERVE TO TIE IN WITH THE FINAL ROAD RESERVE FORMAL LEVELS AND CAMBERS.
  - 1.2 OUTSIDE ROAD RESERVE 200mm HIGHER THAN FINISHED GROUND LEVELS.
- 2.0 WHERE THE PROPOSED SEWER SYSTEM CROSSES OR CONNECTS TO EXISTING SERVICES ALL LEVELS AND CONNECTION POINTS MUST BE CONFIRMED WITH THE ENGINEER BEFORE WORK COMMENCES.
- 3.0 MANHOLE COVER OPENING (PIPES UP TO 160mmØ) TO BE CENTRAL OVER MAN PIPE ON THE DOWNWARD STREAM SIDE.
- 4.0 REFER TO THE DETAIL DRAWING FOR ALL RELEVANT DETAILS.
- 5.0 SEWER CONNECTIONS TO BE END-CAPPED AND MARKED.
- 6.0 CONFIRM DEPTH AND POSITION OF ALL EXISTING SERVICES WITH THE ENGINEER BEFORE CONSTRUCTION COMMENCES.
- 7.0 APPROPRIATE AUTHORITY OFFICIALS TO BE PRESENT WITH THE CROSSING OF OR THE CONNECTION TO ANY EXISTING SERVICE.
- 8.0 CONNECT TO EXISTING MANHOLES AS INDICATED ON PLAN.

**SEWER SPECIFICATIONS:**

- 1.0 SEWER PIPES:
  - 1.1 PIPES TO BE 160mm Ø uPVC CLASS 34 PIPES TO BE LAID ON CLASS C BEDDING.
- 2.0 MANHOLE COVER AND FRAMES: HEAVY DUTY DUCTILE IRON WITH HINGE IN COMPLIANCE WITH EN 124 D400. SAMPLE TO BE PROVIDED FOR APPROVAL.
- 3.0 CALCARETE STEPPED JOINTS TO BE USED WHERE REQUIRED.
- 4.0 MANHOLES:
  - 4.1 PRECAST CONCRETE RING MANHOLES AS PER DETAIL.
  - 4.2 MANHOLES TO BE WATER TIGHT.

REVISION:

No.	DATE	DESCRIPTION

**FOR TENDER**

LEGEND:

- Foul Sewer Pipe Exst.
- Foul Sewer MH Exst.
- Foul Sewer Pipe
- Foul Sewer Manhole
- Foul Sewer Conn. Point
- Water Pipe - Domestic
- Water Valve
- Sewer Exst. Septic Tanks

PROJECT:  
**VAALHOEK, O'KIEP, SEWER RETICULATION NETWORK**

DRAWING TITLE:  
**PROPOSED SEWER LAYOUT**

CLIENT:  
**NAMA KHOI MUNICIPALITY**  
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