



LEGEND

- 160mm PVC
- MH 50
- PROPOSED SEWER PIPE
- PROPOSED SEWER MANHOLE



- GENERAL**
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS REQUIREMENTS.
 2. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE SPECIFIED).
 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, SECOND EDITION 1994.
 5. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.
 6. CO-ORDINATES ARE BASED ON W.G.S 84 SYSTEM.

- SEWER**
1. ALL SEWERS PIPELINES MUST BE MANCORE (PVC CLASS 400).
 2. PIPE BEDDING TO BE CLASS B BEDDING UNLESS OTHERWISE SPECIFIED.
 3. ALL EXCAVATIONS AND BEDDING MUST BE INSPECTED BY ENGINEER BEFORE LAYING OF PIPES.
 4. ALL BEDDING SHALL BE OF AN APPROVED SELECTED GRAVEL MATERIAL WITH A P₁₀ NOT EXCEEDING 6 AND SHALL BE COMPACTED TO 95% MOD AASHTO DENSITY STATED BY THE ENGINEER ON.

LAYOUT PLAN 2

LAYOUT PLAN 3

LAYOUT PLAN 1

REV	DATE	AMENDMENT	DONE BY:
A	AUG 23	FOR INFORMATION	BNH

Drawing Cross References:	
Discipline	Drawing No.
(Architectural)	(N/A)
(Mechanical)	(N/A)
(Electrical)	(N/A)

Drawing Cross References:	
Discipline	Drawing No.
(Structural)	(N/A)
(Civil Eng.)	(N/A)
(etc.)	(N/A)



NOTES:

1. THE SURVEY WAS CARRIED OUT USING WGS84 SURVEY SYSTEM

Scale: 1:1000

A1

NOTES:

1. Measured dimensions to take preference over scaled dimensions.
2. All levels and dimensions to be checked on site before commencing works.
3. Any discrepancies to be reported to the Engineer.
4. All materials and samples to be approved by the Engineer.



RES CONSULTING ENGINEERS

570 MORELETA STREET
SILVERTON
0184

ENGINEERING CIVIL

FOR INFORMATION PURPOSES

RESPONSIBLE PERSONS NAME AND REGISTRATION NO. _____

SIGNATURE _____ DATE _____

CIVIL ENGINEERING

Client Project Number

KEY PLAN AND LOCALITY

DATE: AUG 23

**KGOTSONG/BOTHAVILLE:
UPGRADING OF SEWER
OUTFALL PHASE 3**

DATE	DESIGNED
N.T.S	_____
AUG 23	_____
DATE	_____
Client drawing Number	_____
Drawing number	NLM-2023-L-01