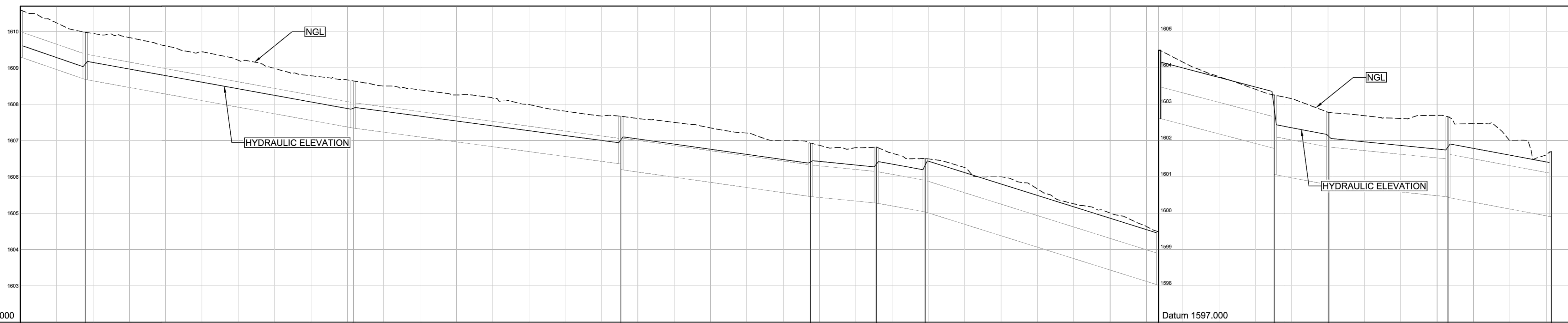


SCALE H 1 : 500
V 1 : 50
Datum 1602.000



Chainage	1602.000	1603.000	1604.000	1605.000	1606.000	1607.000	1608.000	1609.000	1610.000	1611.000	1612.000	1613.000	1614.000	1615.000	1616.000	1617.000	1618.000	1619.000	1620.000
Ground Level	1610.897	1609.881	1608.841	1607.827	1606.827	1605.827	1604.827	1603.827	1602.827	1601.827	1600.827	1599.827	1598.827	1597.827	1596.827	1595.827	1594.827	1593.827	1592.827
Manhole Name	EX101	DK001	DK002	DK003	DK004	DK005	DK006	DK007	DK008	DK009	DK010	DK011	DK012	DK013	DK014	DK015	DK016	DK017	DK018
Inlet / Outlet	1609.354	1608.298	1607.242	1606.186	1605.130	1604.074	1603.018	1601.962	1600.906	1599.850	1598.794	1597.738	1596.682	1595.626	1594.570	1593.514	1592.458	1591.402	1590.346
Hydraulic Elevation	1609.826	1608.770	1607.714	1606.658	1605.602	1604.546	1603.490	1602.434	1601.378	1600.322	1599.266	1598.210	1597.154	1596.098	1595.042	1593.986	1592.930	1591.874	1590.818
Length	17.832 m	73.764 m	73.760 m	52.180 m	18.114 m	13.516 m	64.223 m	31.811 m	15.111 m	32.773 m	28.442 m								
Link Type / Link Size	1000 Concrete 600 mm	1000 Concrete 600 mm	1000 Concrete 750 mm	1000 Concrete 750 mm	1000 Concrete 750 mm	1000 Concrete 750 mm	1000 Concrete 750 mm	1000 Concrete 750 mm	1000 Concrete 900 mm	1000 Concrete 900 mm	1000 Concrete 1050 mm								
Slope	3.457%	1.817%	1.338%	1.418%	1.000%	1.780%	3.142%	2.629%	1.903%	1.000%	1.870%								
Flow Capacity	0.044 m³/s 1.043 m³/s	0.169 m³/s 0.756 m³/s	0.256 m³/s 0.649 m³/s	0.671 m³/s 1.206 m³/s	0.903 m³/s 1.013 m³/s	0.934 m³/s 1.355 m³/s	0.939 m³/s 1.795 m³/s	1.313 m³/s 1.642 m³/s	1.349 m³/s 2.224 m³/s	1.606 m³/s 1.612 m³/s	1.627 m³/s 3.086 m³/s								
Velocity	1.966 m/s	2.298 m/s	2.310 m/s	3.009 m/s	2.788 m/s	3.553 m/s	4.406 m/s	4.439 m/s	3.998 m/s	3.168 m/s	4.167 m/s								

Manhole EK101 to BE-K108

- GENERAL NOTES :**
- THE CONTRACTOR TO KEEP A FULL SET OF DRAWINGS ON SITE.
 - THE CONTRACTOR IS RESPONSIBLE FOR CORRECT SETTING OUT OF BUILDINGS ON SITE WITH PARTICULAR REFERENCE TO BOUNDARIES AND BUILDING LINES AND GIVEN CO-ORDINATES.
 - THE CONTRACTOR TO VERIFY ALL LEVELS AND DIMENSIONS ON SITE.
 - DO NOT SCALE. USE FIGURED DIMENSIONS ONLY. DIMENSIONS GIVEN IN METRES UNLESS STATED OTHERWISE.
 - LARGE SCALE DETAILS TO BE USED WHERE AVAILABLE.
 - ALL LAYOUTS TO BE READ IN CONJUNCTION WITH ANY RELEVANT ARCHITECTURAL, CIVIL, STRUCTURAL OR OTHER DRAWINGS.
 - ANY ERRORS OR DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE ENGINEER FOR CORRECTION BEFORE WORK IS UNDERTAKEN.
 - THE CONTRACTOR IS TO IDENTIFY AND EXPOSE, WHERE RELEVANT, ALL UNDERGROUND SERVICES ON SITE.
 - CONSTRUCTION TO BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATION WORKS INFORMATION, OR RELEVANT SABS 1200 SPECIFICATION.
 - SHOULD THE ENGINEER BE REQUIRED ON SITE, 24 HRS NOTICE IS REQUESTED.

- EARTHWORKS :**
- ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH SABS WITH SABS 1200 DM. (INCLUDING ALL LATEST REVISIONS.)
 - PIPE TRENCHES IN ACCORDANCE WITH SABS 1200 DS.
 - SITE CLEARANCE AND GRUBBING OPERATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH SABS 1200 C.
 - THE CONTRACTOR TO IDENTIFY AND EXPOSE, WHERE RELEVANT, ALL UNDERGROUND SERVICES ON SITE. HE SHOULD LIAISE WITH ALL RELEVANT AUTHORITIES FOR THE LOCATION AND PROTECTION OF THESE SERVICES.
 - ALL APPROVED MATERIAL TO BE STOCKPILED SEPARATELY, AND LATER BE REUSED AS PER ARCHITECTS / ENGINEERS INSTRUCTIONS.
 - THE CONTRACTOR IS TO USE ONLY APPROVED FILL MATERIAL AS SPECIFIED BY THE ENGINEER.
 - THE CONTRACTOR SHALL TIMOROUSLY SUBMIT FIELD AND LABORATORY TEST RESULTS OF RELATIVE COMPACTION DENSITIES, CBR INDICATOR TESTS OR ANY OTHER TEST RESULTS AS REQUIRED, TO THE ENGINEER.
 - a) FIELD DENSITY TESTS SHOULD BE CARRIED OUT AT A RATE OF 1 TEST PER 150 SQ. METRE PER LAYER.
 - b) THE POSITION OF TESTS AND LAYERS TESTED TO BE INDICATED ON A KEY PLAN AND SUBMITTED WITH THE RESULTS TO THE ENGINEER.
 - c) TESTS TO BE DONE BY AN INDEPENDENT LABORATORY APPROVED BY THE ENGINEER.
 - d) POSITIONS OF TESTS TO BE APPROVED BY THE ENGINEER.
 - e) ONE OF THE DENSITY TESTS SHOULD BE A SAND REPLACEMENT TEST / 10 TROXLER TESTS AND EVENLY SPREAD OVER ALL LAYERS.
 - f) THE CONTRACTOR SHOULD MAKE PROVISION FOR STORM WATER CONTROL.
 - g) MAXIMUM OUT SLOPES TO BE 1:1 AND FILL SLOPES TO BE 1:2 UNLESS OTHERWISE STATED.
 - h) AS BUILT SURVEY LEVELS TO BE HANDED TO THE ENGINEER AFTER COMPLETION OF EARTHWORKS.

- BACKFILLING :**
- ALL BACKFILLING BEHIND RETAINING WALLS, BELOW SURFACE BEDS, UNDER STAIRS ON FILL AND ALL JOCKEY SLABS SHALL BE G7 MATERIAL COMPACTED IN 150mm THICK LAYERS TO 80% MOD AASHTO DENSITY, UNLESS OTHERWISE SHOWN.
 - ALL MATERIAL USED FOR BACKFILLING IS TO BE TESTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER, UNLESS OTHERWISE SHOWN.

A	SEPT 2022	ISSUED FOR TENDER
REV No	DATE :	DESCRIPTION :



JOHANNESBURG DEVELOPMENT AGENCY

INSTITUTION
JOHANNESBURG DEVELOPMENT AGENCY

PROJECT
FINETOWN PROPER

CONTRACT - SECTION
-

DISCIPLINE
CIVIL & STRUCTURAL

WORK DESCRIPTION - SUB DIVISION
WORKING DRAWING

DRAWING DESCRIPTION
STORMWATER LONGSECTION

ROAD D

FILE No.	DESIGN	SCALE	INGEROP SOUTH AFRICA	M. RAMONGANE (REVIEW)	ITEM No.	DRAWN
			E. MALAZA	CHECKED		

RESPONSIBLE PROFESSIONAL FOR REVIEW	NAME	SIGNATURE	PR NUMBER
	E. MALAZA		201570224

DRAWING CO-ORDINATED

CONSULTANT :



DITLOU CONSULTING ENGINEERS

CADD SYSTEM	AUTO CAD	FILE NAME
SIZE	DRAWING NUMBER	REV
A0	1119K-05L01	A