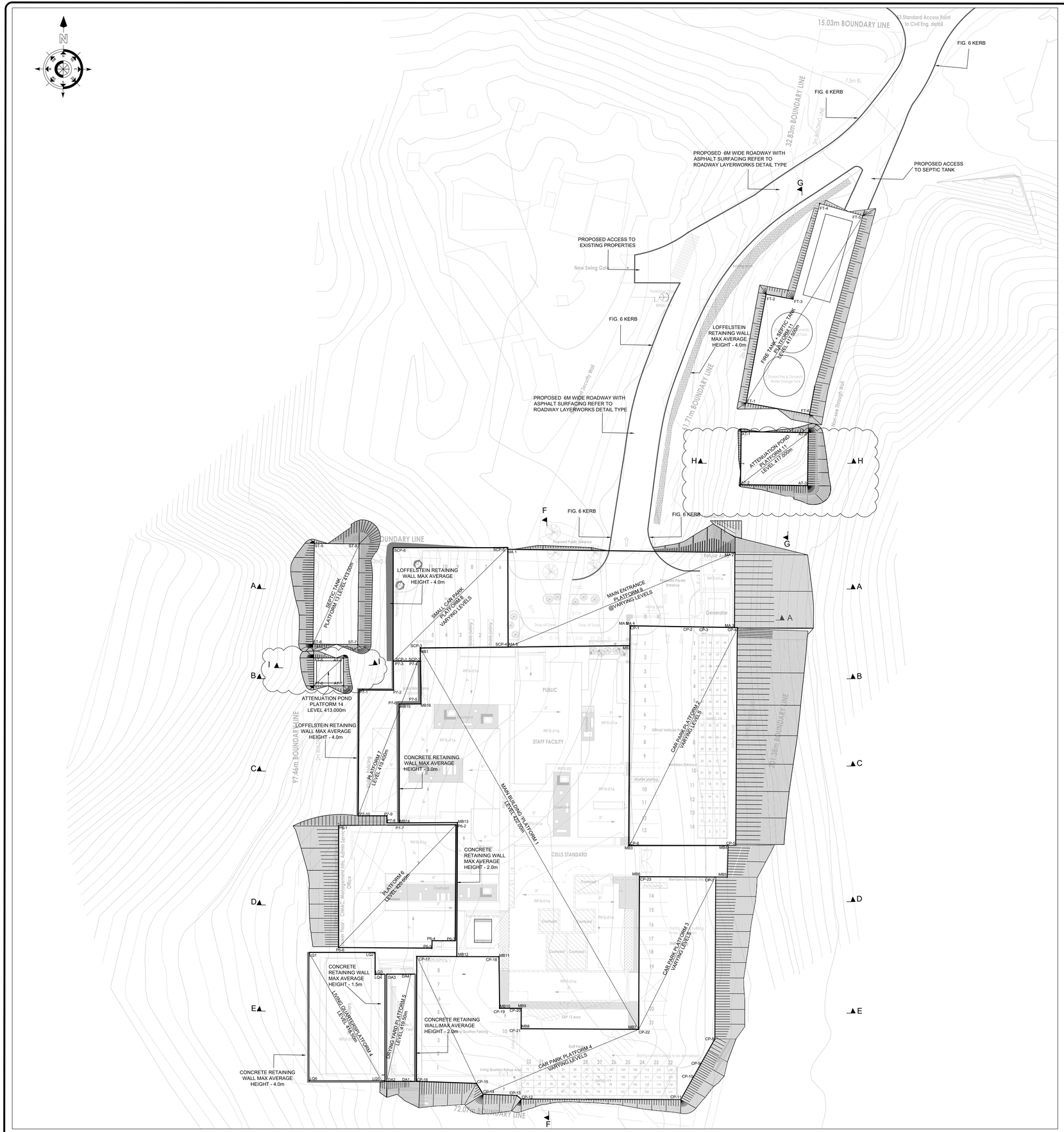

BULK EARTHWORKS LAYOUT
SCALE 1:250

MAIN BUILDING POINT TABLE			
POINT	Y	X	LEVEL
MB-1	56219.345	3375069.960	422.000
MB-2	56186.116	3375069.723	422.000
MB-6	56186.220	3375076.042	422.000
MB-3	56186.393	3375105.032	422.000
MB-4	56172.760	3375104.832	422.000
MB-5	56172.651	3375110.562	421.600
MB-6	56184.968	3375110.346	421.600
MB-7	56184.831	3375137.718	422.000
MB-8	56205.690	3375137.563	422.000
MB-9	56205.591	3375134.022	422.000
MB-10	56209.534	3375133.946	422.000
MB-11	56209.652	3375124.760	422.000
MB-12	56217.292	3375124.751	422.000
MB-13	56217.121	3375100.764	422.000
MB-14	56227.414	3375100.758	422.000
MB-15	56227.556	3375079.635	422.000
MB-16	56219.988	3375079.591	422.000

MAIN ENTRANCE POINT TABLE			
MA-1	56207.506	3375052.326	421.500
MA-2	56168.661	3375052.847	421.500
MA-3	56168.608	3375065.491	422.000
MA-4	56186.367	3375065.095	422.000
MA-5	56187.542	3375065.095	422.000
MA-6	56207.280	3375068.839	422.000

LIVING QUARTERS POINT TABLE			
POINT	Y	X	LEVEL
LQ-1	56243.083	3375124.205	418.500
LQ-2	56231.238	3375124.205	418.500
LQ-3	56231.238	3375128.092	418.500
LQ-4	56230.040	3375128.098	418.500
LQ-5	56230.039	3375147.180	418.500
LQ-6	56243.108	3375147.125	418.500

DRYING AREA POINT TABLE			
DA-1	56224.856	3375146.123	419.500
DA-2	56229.178	3375146.123	419.500
DA-3	56229.235	3375128.098	419.500
DA-4	56224.902	3375128.089	419.500

PLATFORM 6 POINT TABLE			
POINT	Y	X	LEVEL
P6-1	56236.975	3375101.279	420.600
P6-2	56217.731	3375101.333	420.600
P6-3	56217.774	3375121.710	420.600
P6-4	56236.975	3375123.420	420.600
P6-5	56217.774	3375121.710	420.600
P6-6	56236.975	3375123.420	420.600

PLATFORM 7 POINT TABLE			
P7-1	56233.952	3375077.409	419.400
P7-2	56227.944	3375077.426	419.400
P7-3	56227.611	3375072.318	419.400
P7-4	56225.058	3375072.318	419.400
P7-5	56225.115	3375078.676	419.400
P7-6	56228.801	3375079.332	419.400
P7-7	56227.522	3375101.205	419.400
P7-8	56229.033	3375100.365	419.400
P7-9	56229.561	3375099.238	419.400
P7-10	56233.971	3375099.211	419.400

SMALL CAR PARK POINT TABLE			
POINT	Y	X	LEVEL
SCP-1	56228.014	3375077.299	420.000
SCP-2	56219.826	3375077.325	420.500
SCP-3	56219.747	3375069.175	420.700
SCP-4	56207.506	3375069.175	420.800
SCP-5	56207.506	3375051.828	421.500
SCP-6	56228.045	3375051.828	421.450

CAR PARK POINT TABLE			
POINT	Y	X	LEVEL
CP-1	56186.153	3375067.167	422.000
CP-2	56175.644	3375065.618	421.600
CP-3	56173.894	3375067.902	421.600
CP-4	56166.487	3375068.083	421.300
CP-5	56168.098	3375104.608	421.300
CP-6	56186.393	3375105.032	422.000
CP-7	56171.593	3375110.850	421.600
CP-8	56171.009	3375139.486	421.600
CP-9	56173.588	3375143.899	421.600
CP-10	56175.021	3375146.176	421.600
CP-11	56177.392	3375150.299	421.600
CP-12	56205.814	3375150.225	421.680
CP-13	56206.890	3375149.601	421.800
CP-14	56212.592	3375149.416	421.800
CP-15	56212.561	3375146.244	421.800
CP-16	56224.465	3375145.856	421.800
CP-17	56224.625	3375124.776	422.000
CP-18	56209.652	3375124.760	422.000
CP-19	56209.534	3375133.946	422.000
CP-20	56205.591	3375134.022	422.000
CP-21	56205.690	3375137.563	422.000
CP-22	56184.831	3375137.718	422.000
CP-23	56184.968	3375110.346	422.000

SEPTIC TANKS PLATFORM 13 POINT TABLE			
ST-5	56241.995	3375051.21	413.000
ST-6	56241.262	3375068.436	413.000
ST-7	56236.022	3375068.439	413.000
ST-8	56235.916	3375051.259	413.000

ATTENUATION POND PLATFORM 11 POINT TABLE			
AT-1	56165.753	3375031.076	417.000
AT-2	56165.916	3375040.570	417.000
AT-3	56153.916	3375040.736	417.000
AT-4	56153.789	3375031.263	417.000

FIRE TANK + SEPTIC TANK PLATFORM POINT TABLE			
FT-1	56164.927	3375025.942	417.500
FT-2	56161.344	3375006.482	417.500
FT-3	56156.510	3375007.373	417.500
FT-4	56151.712	3374990.308	417.500
FT-5	56144.021	3374992.465	417.500
FT-6	56153.552	3375028.027	417.500

PRELIMINARY

NOTES :

A. GENERAL

1. ALL SETTING OUT TO BE UNDERTAKEN BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
2. PROVE ALL SERVICES PRIOR TO CONSTRUCTION.
3. ALL WORK AREAS TO BE REINSTATED (PREMIX, CONCRETE, ETC.)
4. MUNICIPALITY TO EXECUTE ALL CONNECTIONS INTO MUNICIPAL LINES.
5. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE.
6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE STRUCTURAL ENGINEERING AND ARCHITECTURAL DRAWINGS.
7. ALL WORK IS TO BE EXECUTED IN ACCORDANCE WITH SANS 1200.
8. CONTRACTOR TO PROVIDE AN AS-BUILT SURVEY OF ALL WORKS CONSTRUCTED UPON COMPLETION OF THE PROJECT.
9. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT SABS 1200 SPECIFICATIONS.
10. THE CONTRACTOR MUST GIVE THE ENGINEER 48 HOURS WRITTEN NOTICE OF INSPECTIONS PRIOR TO COVERING UP ANY WORKS.
11. THE CONTRACTOR MUST ARRANGE FOR CONTROL TESTING AT FREQUENCIES SPECIFIED IN THE RELEVANT SABS 1200 SPECIFICATIONS. COSTS FOR CONTROL TESTING WILL BE FOR THE CONTRACTORS ACCOUNT.
12. ONCE THE WORKS ARE SET OUT THE CONTRACTOR MUST CALL THE ENGINEER FOR INSPECTION PRIOR TO COMMENCING WITH CONSTRUCTION.
13. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES IN THE DRAWINGS, THESE DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. NO ASSUMPTIONS MUST BE MADE.
14. SHOULD THE CONTRACTOR WISH TO USE ANY MATERIALS OTHER THAN THOSE SPECIFIED, HE MUST OBTAIN WRITTEN APPROVAL FROM THE ENGINEER TO DO SO.
15. ANY DESIGN CHANGES DURING CONSTRUCTION MUST BE ISSUED UNDER SITE INSTRUCTION, AFTER APPROVAL BY THE PRINCIPAL AGENT
16. ALL BRICKS USED TO CONSTRUCT SEWER AND STORMWATER MANHOLES MUST BE NFX LOAD BEARING BRICKS CONFORMING TO SABS 1200 LD.
17. ALL EXISTING SERVICES TO BE PROVED PRIOR TO WORK COMMENCING. ANY EXISTING SERVICE THAT IS DAMAGED BY THE CONTRACTOR AND IS SHOWN ON THE CONSTRUCTION DRAWINGS OR INDICATED TO THE CONTRACTOR ON SITE BY THE ENGINEER, MUST BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST.

B. EARTHWORKS :

1. 100mm TOPSOIL TO BE STRIPPED AND STOCKPILED AS INSTRUCTED.
2. UNSUITABLE MATERIAL TO BE SPOILT AS INDICATED BY THE ENGINEER.
3. IN SITU MATERIAL TO BE COMPACTED TO 93% MOD. AASHTO DENSITY.
4. FILL TO BE COMPACTED IN MAX. 200mm THICKNESS TO 93% MOD. AASHTO DENSITY.
5. ALL BATTERS TO BE TOPSOILED WITH MATERIAL FROM STOCKPILE.

C. STORMWATER

1. ALL STORMWATER PIPES ARE :
   200mm NOMINAL DIAMETER - CLASS 34HD uPVC
   375mm / 450mm NOMINAL DIAMETER - CLASS 100D CONCRETE
2. ALL STORMWATER CONCRETE PIPES TO COMPLY WITH SANS 677 STANDARDS.
3. ALL JOINTS TO BE 'SPIGOT AND SOCKET' TYPE.
4. ALL STORMWATER PIPES TO BE LAID ON CLASS B BEDDING.

D. SEWER

1. ALL SEWER PIPES ARE 160mm NOMINAL DIAMETER CLASS 34 HEAVY DUTY UPVC PIPES.
2. ALL SEWER PIPES TO BE LAID ON CLASS B BEDDING.
3. ALL SEWER PIPES TO COMPLY WITH SANS 1601 STANDARDS.
4. ALL SEWER PIPES IN PARKING AREAS/ROAD CROSSING TO BE CONCRETE ENCASED 150mm ALL ROUND WITH 25MPa CONCRETE AT 28 DAYS STRENGTH.

E. WATER RETICULATION

1. BULK WATER MAIN : 75mm Ø HDPE PE100 PN 12.5
2. BEDDING TO SUIT FLEXIBLE PIPES.
3. PIPES TO BE INSTALLED WITH ALL COUPLINGS AND TO BE TESTED AND DISINFECTED.
4. INSTALLATION TO COMPLY WITH SABS 1200.
5. THRUST BLOCKS TO BE 25MPa CONCRETE AT 28 DAYS STRENGTH.
6. CONTRACTOR TO ENSURE THAT ALL INDIVIDUAL DOMESTIC SUPPLY WATER MAINS ARE CONNECTED TO THE POTABLE WATER RETICULATION AND NOT THE FIRE RETICULATION.
7. PRECAST MARKERS TO BE INSTALLED TO INDICATE TO THE RELEVANT UNDERGROUND SERVICES (WATER LINES, VALVES, FIRE LINES ETC.)
8. MINIMUM COVER TO BURIED PIPES SHALL BE 800mm, EXCEPT AT ROAD CROSSINGS WHERE THE COVER SHALL BE INCREASED TO 1000mm.

SCALE (mm)
0 10 20

No.	REFERENCE DRAWINGS
912	ACCESS ROAD,PARKING LAYOUT AND TYPICAL DETAILS
908	BULK STORMWATER RETICULATION LAYOUT
904	BULK WATER RETICULATION LAYOUT
903	BULK SEWER RETICULATION LAYOUT
902	BULK SERVICES LAYOUT
901	BULK EARTHWORK SECTIONS

REV	DESCRIPTION	BY	DATE
P3	SECTIONS TAKEN FROM PLATFORMS	S.M	2025.04.29
P2	PLATFORM AMENDED	S.M	2025.04.14
P1	ISSUED FOR COMMENTS	A.M	2024.09.20

Professional person Registration

CLIENT

SOUTH AFRICAN POLICE SERVICES

PROJECT

MSINSINI POLICE STATION

DETAILS

BULK EARTHWORKS LAYOUT, SETTING OUT AND QUANTITIES

MAP AFRICA CONSULTING
SUITE ESS106 STRATHMORE PARK, 305 MUSGRAVE ROAD, MUSGRAVE, DURBAN
e-mail : admin@mapafrica.co.za
website : www.mapafrica.co.za
FAX (031) 3092929 TEL. (031) 3095831

SABS ISO 9001 CESA

DESIGNED	A.M	COPYRIGHT RESERVED	SCALES
DRAWN	A.M		AS SHOWN
APPROVED	S.S	PL	DATE 2024.09.20
TENDER No.			
DRAWING No.	589/MSI/900		REV P3