LEGEND

EXISTING:
- SEWERS CL AND M.H'S
- STORMWATER CL DRAIN
- WATER MAINS CL AND VALVES
- ELECTRICITY CL(OH)
- TELECOMMS. CL (OH)
- FIBRE OPTIC CL
- ROAD CENTERLINES
- ROAD EDGE
- ROAD RESERVE
- FENCE/BOUNDARY AND GATE

PROPOSED:
- UPGRADE ROAD EDGE
- TRANSMISSION PIPE CL
- AIR VALVE
- SCOUR VALVE
- ISOLATING VALVE
- METER

NOTE:

1. ALL SERVICES DEPICTED ON THE PLAN & LONG SECTION ARE APPROXIMATE POSITIONS OF EXPECTED SERVICES OBTAINED FROM SERVICE PROVIDERS RECORDS THAT MAY BE ENCOUNTERED BY THE CONTRACTOR ALONG THE ROUTE. ALL SERVICES ARE TO BE TRACED AND PROVED IN CONJUNCTION WITH EACH SERVICE PROVIDER AND NOT LESS THAN 14 WORKING DAYS PRIOR TO EXCAVATION TO AVOID CAUSING DAMAGE TO '"EXISTING SERVICES".
2. ALL SERVICES SHOWN ON PLAN AND LONG SECTION AND ALL ADDITIONAL SERVICES PROVIDED BY THE SERVICE PROVIDER(S) SHALL BE DEFINED AS "KNOWN SERVICES". NO COMPENSATION WILL BE PAID FOR DAMAGE CAUSED TO "KNOWN SERVICES".

SETTING OUT DATA

REF	Y	X
PI-A22	20017.200	3743916.338
PI-A23	20036.265	3743922.837
PI-A24	20051.143	3743927.910
PI-A25	20307.413	3744014.541
PI-A26	20463.093	3744065.077
PI-A27	20529.164	3744088.129
PI-A28	20670.510	3744137.443
PI-A29	20793.945	3744179.118
PI-A30	20808.808	3744184.136
PI-A31	20831.905	3744191.935

SETTING OUT DATA

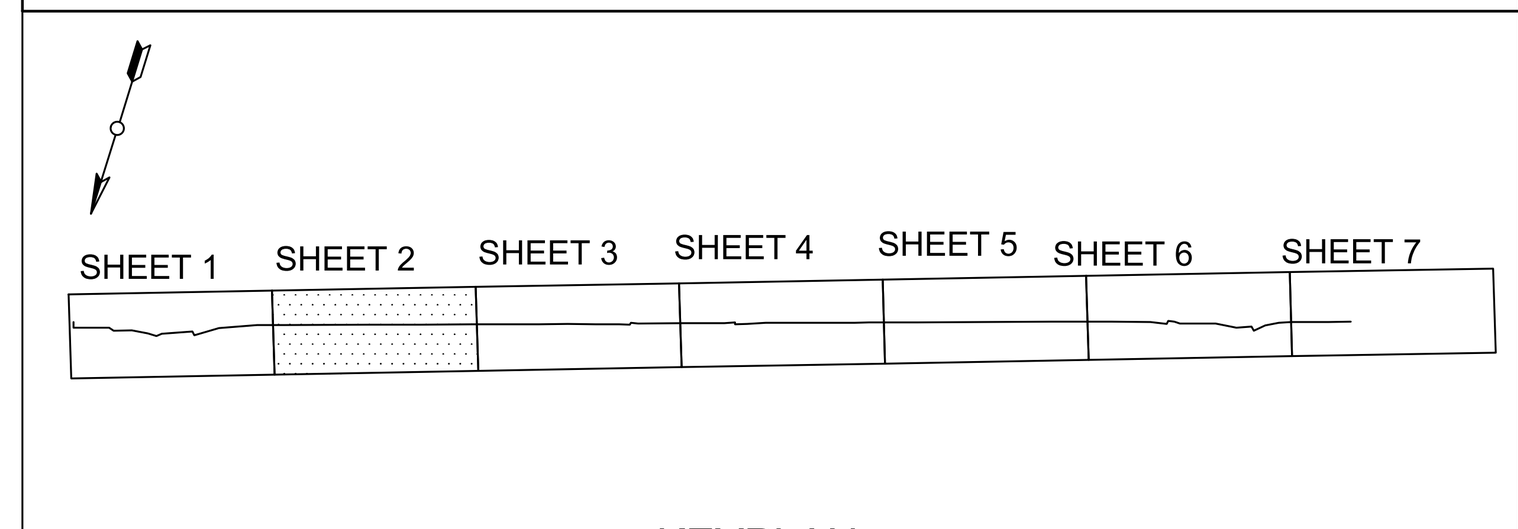
REF	Y	X
PI-A32	20926.131	3744223.748

SETTING OUT CONTROL

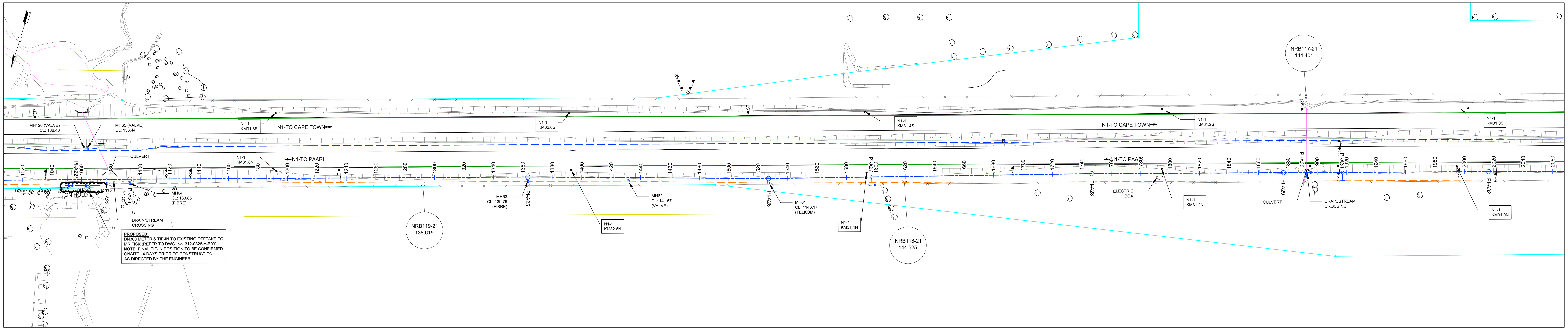
NAME	Y	X	Z	DESCRIPTION
NRB 119-21	20241.230	3743987.600	138.615	
NRB 118-21	20551.410	3744091.970	144.525	
NRB 117-21	20792.160	3744233.090	144.401	

NOTE:
1. SURVEY BASED ON LO 19, SOUTH AFRICAN SURVEY GRID, WGS84 DATUM; 18 TO 20d E
2. THE ABOVE DATA IS UNIQUE TO THIS PROJECT ONLY. THE CONTRACTOR IS PROHIBITED FROM USING FOREIGN CONTROL BEACONS.

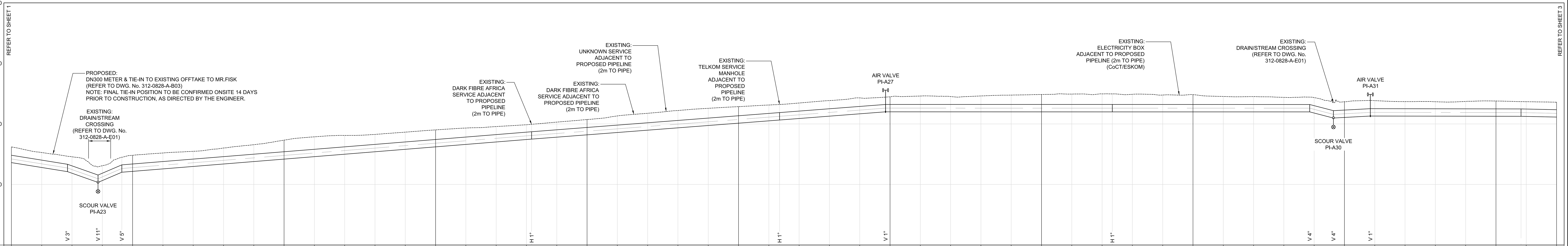
NOTE:
ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS. REFER ANY DISCREPANCIES TO THE ENGINEER.



KEYPLAN



PLAN VIEW
SCALE - 1:1000



VER- 1: 250
HOR- 1: 1000

DATUM : 120.000 msl

PEG DISTANCE AT CH (m)	1020	1040	1060	1080	1100	1120	1140	1160	1180	1200	1220	1240	1260	1280	1300	1320	1340	1360	1380	1400	1420	1440	1460	1480	1500	1520
GROUND LEVEL AT CH	136.2	135.3	134.6	133.1	134.8	135.2	135.5	136.0	136.6	137.3	137.9	138.1	138.3	138.6	139.0	139.3	139.6	139.9	140.3	140.7	141.3	141.8	142.2	142.6	142.9	143.1
INVERT LEVEL AT CH	133.6	132.8	131.9	130.7	132.2	132.6	133.0	133.4	133.8	134.2	134.6	135.0	135.4	135.8	136.2	136.6	137.0	137.4	137.8	138.2	138.6	139.0	139.4	139.8	140.1	140.5
DEPTH TO IL AT CH (m)	2.6	2.5	2.7	2.4	2.6	2.6	2.5	2.6	2.8	3.1	3.3	3.1	2.9	2.8	2.8	2.7	2.5	2.4	2.5	2.5	2.7	2.8	2.9	2.8	2.7	2.6

PEG DISTANCE AT CH (m)	1540	1560	1580	1600	1620	1640	1660	1680	1700	1720	1740	1760	1780	1800	1820	1840	1860	1880	1900	1920	1940	1960	1980	2000	2020	2040
GROUND LEVEL AT CH	143.5	143.9	144.3	144.5	144.6	144.5	144.6	144.8	144.9	144.9	145.0	144.9	144.8	144.8	144.5	144.5	144.4	144.4	143.7	143.9	143.7	143.7	143.7	143.8	143.7	143.6
INVERT LEVEL AT CH	140.9	141.3	141.7	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	141.8	141.1	141.3	141.3	141.3	141.3	141.3	141.3	141.1
DEPTH TO IL AT CH (m)	2.5	2.6	2.6	2.5	2.6	2.5	2.6	2.7	2.9	2.9	3.0	2.9	2.8	2.8	2.5	2.5	2.4	2.5	2.6	2.5	2.4	2.4	2.4	2.5	2.4	2.4

PI REFERENCE	PEG DISTANCE AT PI (m)	GROUND LEVEL AT PI	INVERT LEVEL AT PI	DEPTH TO IL AT PI (m)	CUMULATIVE LENGTH	GRADE 1: (to next PI)
PI-A21	977.0		135.4	2.6	946.68	- 24.792
PI-A22	1057.0	134.7	132.1	2.5	1026.74	- 11.329
PI-A23	1077.2	132.9	130.3	2.6	1046.96	9.312
PI-A24	1092.9	134.5	132.0	2.5	1062.77	49.501
PI-A25	1363.4	139.9	137.5	2.4	1333.34	51.759
PI-A26	1527.1	143.2	140.7	2.5	1497.05	51.759
PI-A27	1597.1	144.4	142.0	2.4	1567.04	- 22273.202
PI-A28	1746.8	145.0	142.0	3.0	1716.74	- 22273.202
PI-A29	1877.0	144.4	142.0	2.4	1847.02	- 15.424
PI-A30	1892.7	143.5	141.0	2.5	1862.74	74.669
PI-A31	1917.1	143.9	141.3	2.6	1887.12	- 2533.392
PI-A32	2016.6	143.7	141.3	2.4	1986.57	- 187.454
PI-A33	2136.5			2.4		

PIPE DESCRIPTION: DN1200 x 10mm THICK x GRADE X42, CEMENT MORTAR LINED, CEMENT MORTAR SHEATHING, CONTINUOUSLY WELDED STEEL PIPE

LONGITUDINAL SECTION
SCALE - V 1:250
H 1:1000

No.	DATE	REVISION	CONSULT. ENG.
V1	27/11/2023	ORIGINAL VERSION	

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg.No.1998/009584/30
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WASTERN REGION
1 Havenga Street
Oakdale
Bellville
7530

Private Bag X19
Bellville
7535
6034

Tel: (021) 957 4600

ACCEPTANCE
THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING

for the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION
THE CAPACITY IMPROVEMENT OF THE NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENOFF INTERCHANGE (KM 33.00)

DRAWING DESCRIPTION
N1 - WEMMERSHOEK PIPELINE RELOCATION
SECTION A - KOELENHOF TO KRAAIFONTEIN
DN1200 PLAN AND LONGITUDINAL SECTION

SCALE : AS SHOWN SHEET 2 OF 7

PROJECT NUMBER	N.001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE	18.90	33.00
DRAWING TYPE	ROADS-UTILITIES	
BRIDGE/STRUCTURE No.	-	
CONSULTANT DRAWING No.	312-0828-A-A02	VER
SANRAL DOCUMENT #	-	V 1

ORIGINAL SCALE: 1 : 100
1m 0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m