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

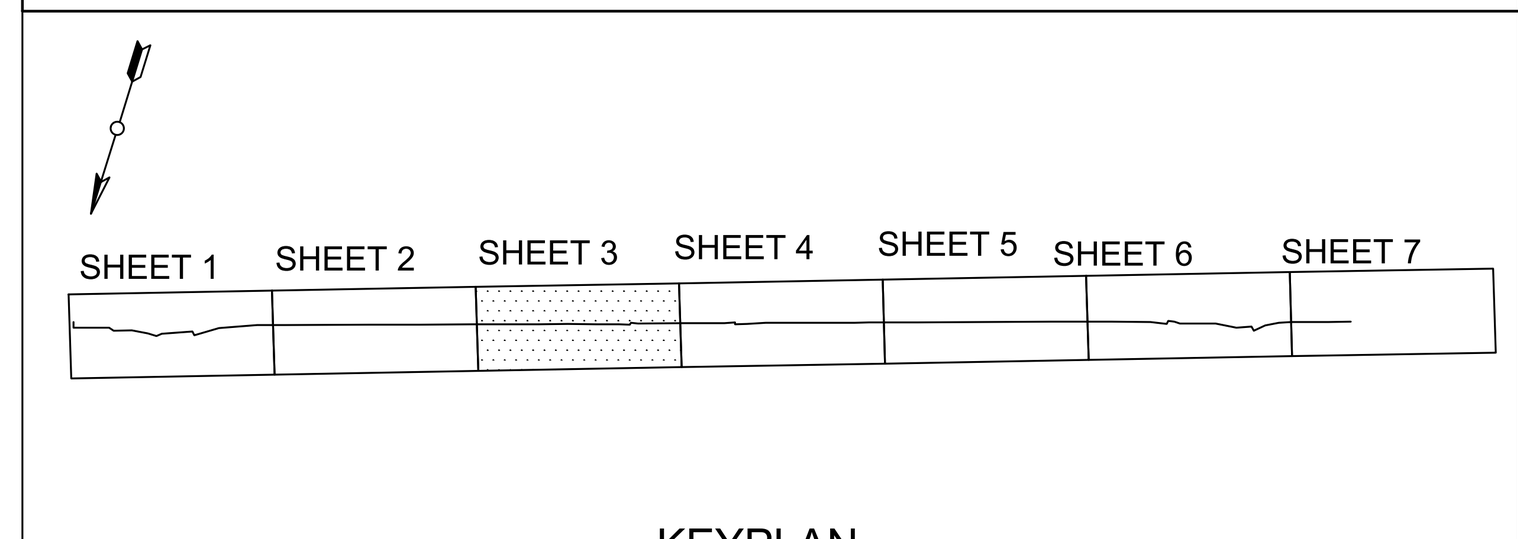
REF	Y	X
PI-A32	20926.131	3744223.748
PI-A33	21039.864	3744262.011
PI-A34	21235.067	3744327.682
PI-A35	21372.471	3744371.787
PI-A36	21505.928	3744414.626
PI-A37	21561.086	3744435.100
PI-A38	21616.420	3744452.876
PI-A39	21668.200	3744468.120
PI-A40	21669.907	3744479.491
PI-A41	21726.243	3744492.981

SETTING OUT CONTROL

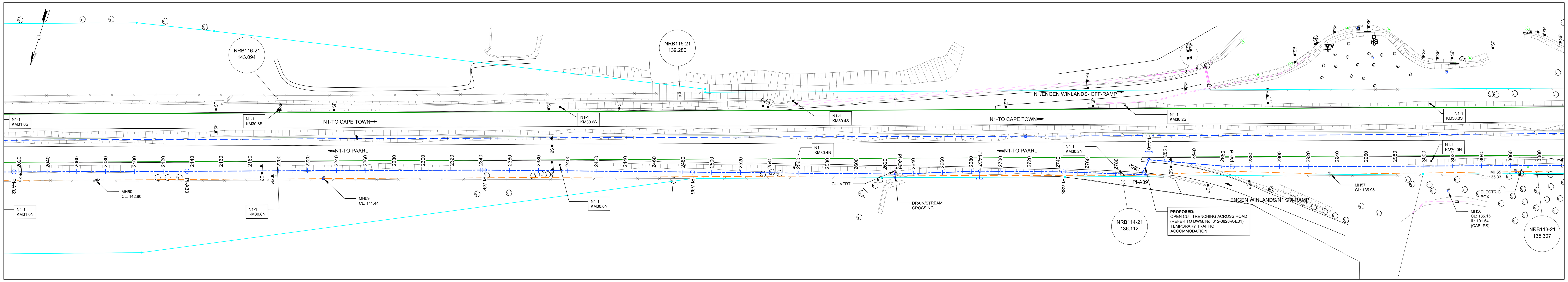
NAME	Y	X	Z	DESCRIPTION
NRB 116-21	21082.080	3744330.120	143.094	
NRB 115-21	21347.360	3744420.020	139.28	
NRB 114-21	21657.660	3744459.090	136.112	
NRB 113-21	21928.120	3744555.330	135.307	

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.

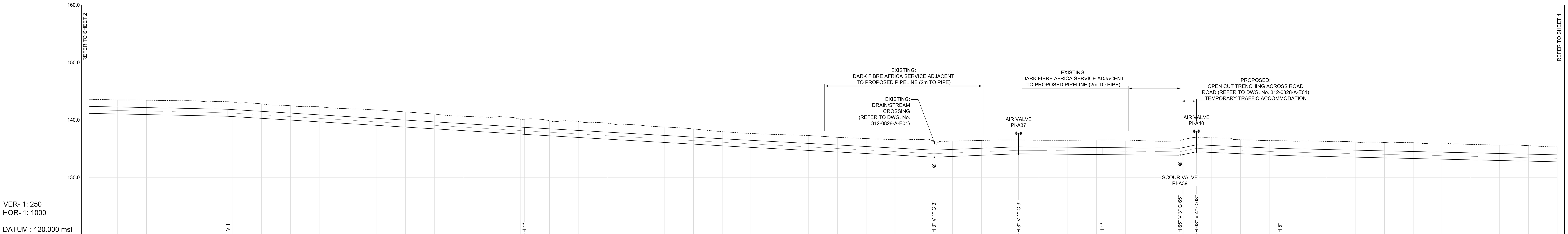
NOTE:
ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS. REFER ANY DISCREPANCIES TO THE ENGINEER.



KEYPLAN



PLAN VIEW
SCALE - 1:1000



VER- 1: 250
HOR- 1: 1000

DATUM : 120.000 msl

PEG DISTANCE AT CH (m)	GROUND LEVEL AT CH	INVERT LEVEL AT CH	DEPTH TO IL AT CH (m)
2040	143.6	141.1	2.4
2060	143.5	141.0	2.4
2080	143.4	140.9	2.5
2100	143.3	140.8	2.5
2120	143.2	140.7	2.5
2140	143.1	140.6	2.5
2160	142.8	140.3	2.5
2180	142.5	140.0	2.5
2200	142.3	139.7	2.6
2220	141.9	139.4	2.6
2240	141.7	139.1	2.7
2260	141.4	138.8	2.6
2280	141.0	138.4	2.6
2300	140.6	138.1	2.5
2320	140.4	137.8	2.6
2340	140.1	137.5	2.6
2360	139.8	137.2	2.6
2380	139.7	137.0	2.8
2400	139.4	136.7	2.8
2420	139.1	136.4	2.8
2440	138.8	136.1	2.7
2460	138.4	135.8	2.6
2480	138.0	135.5	2.5
2500	137.6	135.2	2.4
2520	137.4	135.0	2.5
2540	137.3	134.7	2.6
2560	137.0	134.4	2.5
2580	136.7	134.2	2.6
2600	136.6	133.9	2.7
2620	136.6	133.6	3.0
2640	136.3	133.7	2.7
2660	136.4	133.9	2.6
2680	136.5	134.0	2.5
2700	136.5	134.1	2.4
2720	136.4	134.0	2.4
2740	136.5	134.0	2.5
2760	136.5	133.9	2.5
2780	136.3	133.9	2.4
2800	136.6	134.0	2.6
2820	136.9	134.3	2.5
2840	136.5	134.1	2.4
2860	136.4	133.9	2.5
2880	136.3	133.8	2.5
2900	136.2	133.6	2.6
2920	136.1	133.5	2.6
2940	136.1	133.4	2.7
2960	136.0	133.3	2.7
2980	136.0	133.2	2.8
3000	135.7	133.1	2.7
3020	135.6	132.9	2.7
3040	135.5	132.8	2.7
3060	135.3	132.7	2.6

PI REFERENCE	PEG DISTANCE AT PI (m)	GROUND LEVEL AT PI	INVERT LEVEL AT PI	DEPTH TO IL AT PI (m)	GRADE 1: (to next PI)	CUMULATIVE LENGTH
PI-A32	2016.6		141.3	2.4	- 187.454	1986.57
PI-A33	2136.5	143.2	140.6	2.5	- 65.603	2106.57
PI-A34	2342.5	140.1	137.5	2.6	- 69.057	2312.55
PI-A35	2486.8	137.8	135.4	2.4	- 74.539	2456.87
PI-A36	2627.0	136.1	133.5	2.6	101.15	2597.05
PI-A37	2685.8	136.5	134.1	2.4	- 447.963	2655.89
PI-A38	2743.9	136.5	134.0	2.5	- 447.963	2714.01
PI-A39	2797.9	136.3	133.9	2.5	19.238	2767.99
PI-A40	2809.4	136.9	134.5	2.5	- 92.066	2779.50
PI-A41	2867.3	136.4	133.8	2.5	- 172.823	2837.43
PI-A42	3200.4			2.6		

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

ORIGINAL SCALE: 1 : 100

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 3 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-A03		VER
SANRAL DOCUMENT #	-		V 1