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-A1	19058.931	3743617.071
PI-A2	19068.737	3743587.765
PI-A3	19117.556	3743603.917
PI-A4	19148.940	3743614.300
PI-A5	19156.616	3743607.461
PI-A6	19201.350	3743621.765
PI-A7	19218.757	3743627.331
PI-A8	19227.334	3743630.074
PI-A9	19314.005	3743657.789
PI-A10	19352.105	3743669.972

SETTING OUT DATA

REF	Y	X
PI-A11	19390.205	3743682.155
PI-A12	19428.304	3743694.338
PI-A14	19504.503	3743718.704
PI-A15	19603.440	3743750.341
PI-A16	19620.891	3743734.244
PI-A17	19722.333	3743802.294
PI-A18	19749.671	3743813.768
PI-A19	19834.185	3743849.239
PI-A20	19893.871	3743874.291
PI-A21	19941.480	3743890.522

SETTING OUT CONTROL

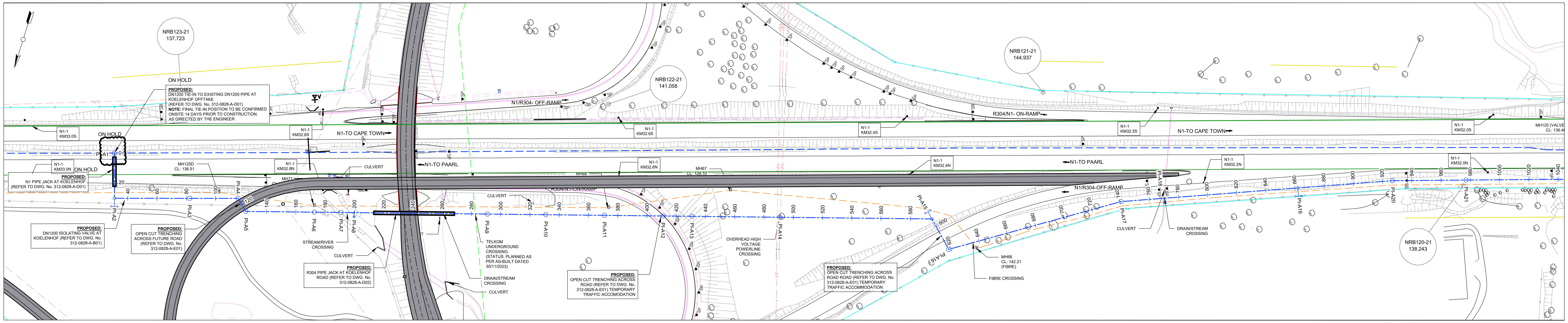
NAME	Y	X	Z	DESCRIPTION
NRB 123-21	19092.050	3743663.460	137.723	
NRB 122-21	19368.890	3743755.140	141.058	
NRB 121-21	19648.270	3743856.390	144.937	
NRB 120-21	19941.080	3743886.250	138.243	

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.

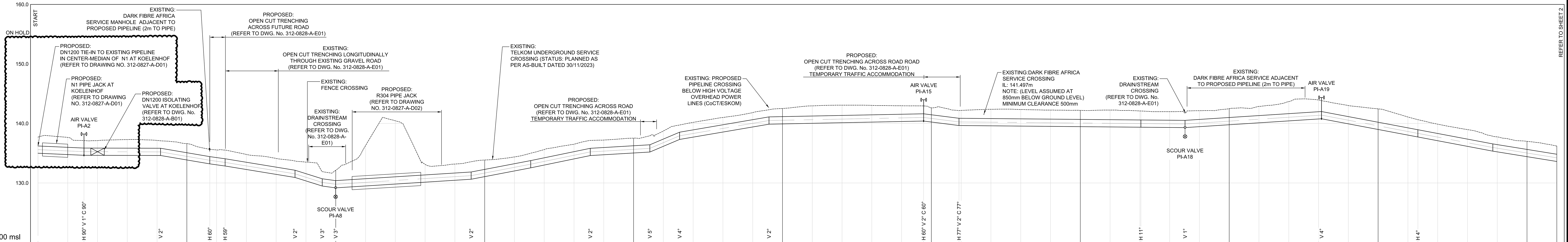
NOTE:
ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS. REFER ANY DISCREPANCIES TO THE ENGINEER.

SHEET 1 SHEET 2 SHEET 3 SHEET 4 SHEET 5 SHEET 6 SHEET 7

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)
0	137.7	135.0	2.7
20	137.7	134.8	2.9
40	137.1	134.7	2.5
60	137.3	134.6	2.7
80	137.1	134.6	2.5
100	136.6	133.9	2.7
120	135.5	133.1	2.5
140	134.8	132.3	2.5
160	134.1	131.5	2.7
180	133.5	130.4	3.1
200	132.1	129.2	2.9
220	136.3	129.5	6.8
240	140.4	129.8	10.6
260	133.1	130.1	3.0
280	133.2	130.5	2.7
300	133.8	131.1	2.8
320	134.4	132.0	2.3
340	135.6	133.0	2.6
360	136.5	134.1	2.5
380	137.2	134.7	2.5
400	137.5	135.0	2.5
420	138.7	136.2	2.6
440	140.2	137.7	2.5
460	141.0	138.6	2.4
480	141.8	139.4	2.4
500	142.5	139.9	2.6
520	143.0	140.0	2.9
540	143.1	140.1	2.9
560	143.0	140.2	2.8
580	143.0	140.3	2.6
600	142.6	140.2	2.4
620	142.2	139.7	2.5
640	142.4	139.6	2.8
660	142.3	139.6	2.8
680	142.2	139.5	2.7
700	142.2	139.5	2.7
720	142.2	139.4	2.8
740	142.1	139.4	2.7
760	142.0	139.3	2.6
780	142.1	139.5	2.7
800	142.5	139.8	2.7
820	142.9	140.1	2.8
840	143.7	140.4	3.2
860	143.9	140.8	3.2
880	143.0	139.9	3.1
900	142.4	139.0	3.4
920	141.1	138.1	3.0
940	139.9	137.1	2.8
960	139.0	136.2	2.8
980	137.7	135.2	2.5
1000	137.0	134.4	2.6
1020	136.2	133.6	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-A1	0.0	137.7	135.0	2.7	- 85.812	0.00
PI-A2	30.9	137.1	134.7	2.5	- 1495.924	0.00
PI-A3	82.3	137.1	134.6	2.5	- 23.466	51.42
PI-A4	115.4	135.6	133.2	2.4	- 28.464	84.51
PI-A5	125.7	135.5	132.9	2.7	- 24.486	94.80
PI-A6	172.6	133.7	130.9	2.8	- 12.657	141.80
PI-A7	190.9	131.9	129.5	2.4	- 29.201	160.13
PI-A8	199.9	132.1	129.2	2.9	62.784	169.14
PI-A9	290.9	133.6	130.6	2.9	20.818	260.15
PI-A10	330.9	135.0	132.6	2.4	19.389	300.20
PI-A11	370.9	137.1	134.6	2.5	67.76	340.25
PI-A12	410.9	137.9	135.2	2.7	9.441	380.25
PI-A13	430.9	139.7	137.3	2.4	23.411	400.36
PI-A14	490.9	142.3	139.9	2.4	198.717	460.42
PI-A15	594.8	142.9	140.4	2.5	- 31.558	564.29
PI-A16	618.5	142.2	139.7	2.5	- 432.654	588.05
PI-A17	740.7	142.1	139.4	2.7	- 432.654	710.20
PI-A18	770.3	141.8	139.3	2.5	61.621	739.85
PI-A19	862.0	143.8	140.8	3.0	- 21.143	831.52
PI-A20	926.7	140.6	137.7	2.9	- 21.143	896.32
PI-A21	977.0	137.8	135.4	2.5	- 24.792	946.68
PI-A22	1057.0			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

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
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 1 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-A01	VER
SANRAL DOCUMENT #	-	V 1

ORIGINAL SCALE: 1 : 100