LEGEND

EXISTING:

Item	
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:

Item	
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-B1	25656.327	3745937.258
PI-B2	25652.796	3745941.774
PI-B3	25657.574	3745945.517
PI-B4	25663.883	3745950.457
PI-B5	25634.452	3745988.105
PI-B6	25646.576	3745997.593
PI-B7	25709.576	3746046.899
PI-B8	25845.213	3746153.053
PI-B9	25870.790	3746169.572
PI-B10	25900.383	3746192.935

SETTING OUT DATA

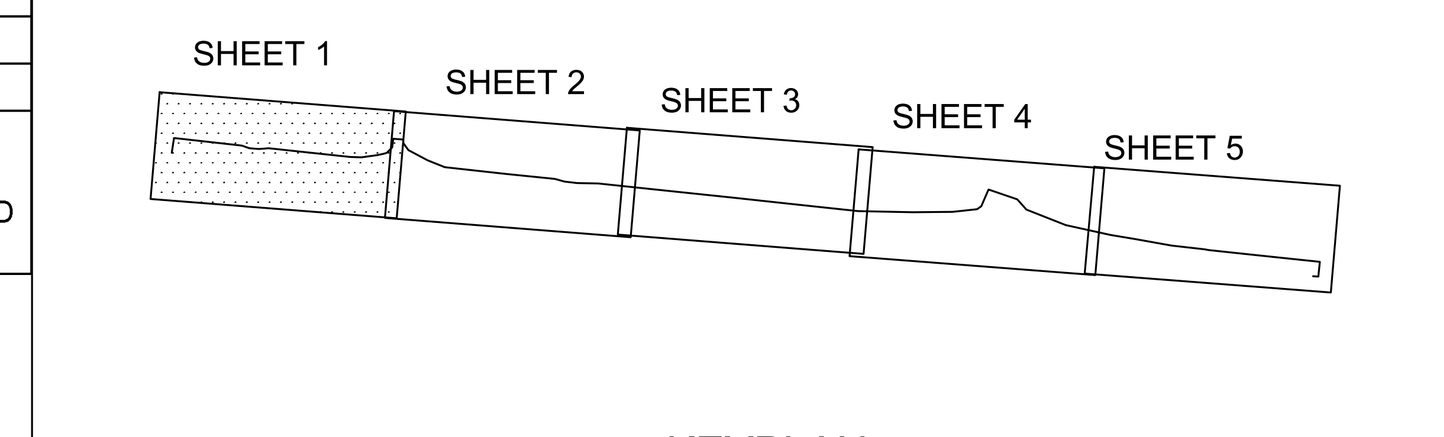
REF	Y	X
PI-B11	25929.098	3746215.556
PI-B12	26034.466	3746298.018
PI-B13	26050.034	3746315.892
PI-B14	26148.102	3746393.746
PI-B15	26178.144	3746417.595
PI-B16	26204.062	3746442.703
PI-B17	26216.495	3746461.646
PI-B18	26223.058	3746468.924
PI-B19	26239.225	3746454.345
PI-B20	26281.499	3746499.502

SETTING OUT CONTROL

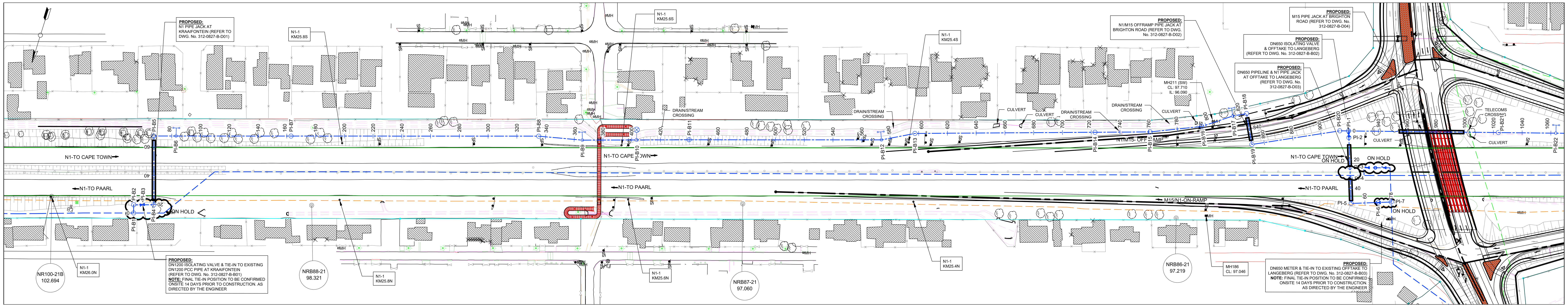
NAME	Y	X	Z	DESCRIPTION
NR 100-21	25604.38	3745911.22	102.694	
NRB 88-21	25750.53	3746017.85	98.321	
NRB 87-21	25985.93	3746203.51	97.06	
NRB 86-21	26229.32	3746381.61	97.219	

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.

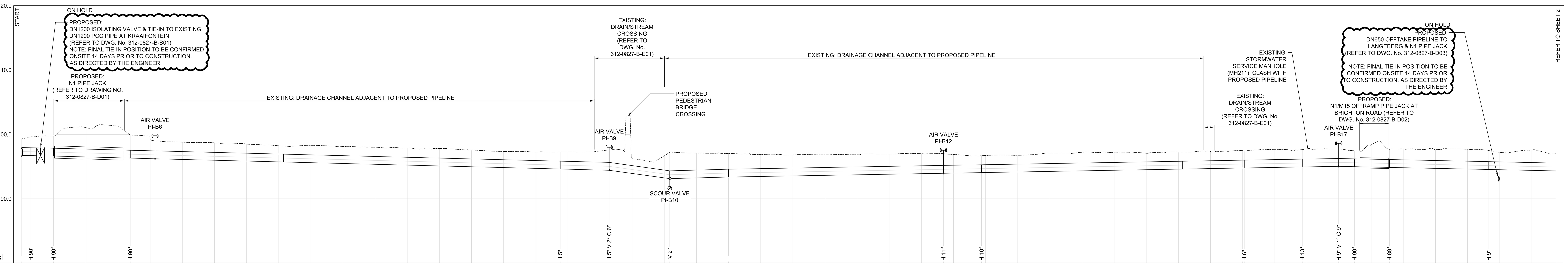
NOTE:
ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS. REFER ANY DISCREPANCIES TO THE ENGINEER.



KEYPLAN



PLAN VIEW
SCALE - 1:1000



VER- 1:250
HOR- 1:1000

DATUM : 80.000 msl

PEG DISTANCE AT CH (m)	GROUND LEVEL AT CH	INVERT LEVEL AT CH	DEPTH TO IL AT CH (m)
0	99.3	96.7	2.6
20	99.8	96.6	3.1
40	101.0	96.5	4.5
60	101.3	96.4	4.9
80	99.3	96.2	3.1
100	98.8	96.1	2.7
120	98.7	96.0	2.7
140	98.5	95.9	2.6
160	98.2	95.7	2.5
180	98.3	95.6	2.7
200	98.1	95.5	2.6
220	98.0	95.4	2.6
240	97.9	95.2	2.6
260	97.8	95.1	2.7
280	97.6	95.0	2.6
300	97.3	94.9	2.5
320	97.3	94.7	2.6
340	97.2	94.6	2.6
360	97.4	94.5	2.9
380	96.2	93.9	2.3
400	96.7	93.3	3.4
420	97.1	93.2	3.8
440	97.0	93.4	3.6
460	96.9	93.5	3.4
480	96.8	93.6	3.3
500	96.9	93.7	3.3
520	96.8	93.7	3.1
540	97.0	93.8	3.1
560	97.0	93.9	3.1
580	96.9	94.0	2.9
600	96.7	94.1	2.6
620	96.7	94.2	2.6
640	97.1	94.3	2.8
660	97.2	94.3	2.9
680	97.2	94.4	2.7
700	97.1	94.5	2.5
720	97.3	94.6	2.6
740	97.3	94.7	2.6
760	97.5	94.8	2.7
780	97.7	94.9	2.8
800	97.8	95.0	2.8
820	97.7	95.0	2.7
840	98.4	94.9	3.5
860	97.7	94.8	2.9
880	97.6	94.7	2.9
900	97.7	94.6	3.1
920	97.2	94.5	2.7
940	97.6	94.4	3.2
955	97.0	94.3	2.7

PI REFERENCE	PEG DISTANCE AT PI (m)	GROUND LEVEL AT PI	INVERT LEVEL AT PI	DEPTH TO IL AT PI (m)	CUMULATIVE LENGTH
PI-B1	0.0	99.3	96.7	2.6	0.00
PI-B2	5.7	99.7	96.7	3.0	5.73
PI-B3	11.8	99.8	96.7	3.1	11.80
PI-B4	19.8	99.8	96.6	3.1	19.81
PI-B5	67.6	99.9	96.3	3.6	67.60
PI-B6	83.0	99.0	96.2	2.8	83.00
PI-B7	163.0	98.2	95.7	2.5	163.00
PI-B8	335.2	97.3	94.6	2.6	335.24
PI-B9	365.7	97.6	94.4	3.1	365.69
PI-B10	403.4	97.2	93.1	4.1	403.42
PI-B11	439.9	97.0	93.4	3.6	439.97
PI-B12	573.7	97.0	94.0	3.0	573.77
PI-B13	597.4	96.7	94.1	2.6	597.48
PI-B14	722.7	97.3	94.6	2.6	722.69
PI-B15	761.0	97.4	94.8	2.6	761.05
PI-B16	797.1	97.6	94.9	2.7	797.13
PI-B17	819.8	97.7	95.0	2.7	819.79
PI-B18	829.6	97.4	95.0	2.4	829.59
PI-B19	851.3	97.7	94.9	2.8	851.36
PI-B20	913.2	97.5	94.6	2.9	913.22
PI-B21	1023.5		94.0	2.7	

Segment	GRADE 1:
PI-B1 – PI-B2	- 221.474
PI-B2 – PI-B3	- 169.416
PI-B3 – PI-B4	- 223.678
PI-B4 – PI-B5	- 149.111
PI-B5 – PI-B6	- 154.555
PI-B6 – PI-B7	- 158.134
PI-B7 – PI-B8	- 158.134
PI-B8 – PI-B9	- 158.134
PI-B9 – PI-B10	- 28.913
PI-B10 – PI-B11	144.37
PI-B11 – PI-B12	228.831
PI-B12 – PI-B13	228.831
PI-B13 – PI-B14	228.831
PI-B14 – PI-B15	228.831
PI-B15 – PI-B16	228.831
PI-B16 – PI-B17	228.831
PI-B17 – PI-B18	- 191.314
PI-B18 – PI-B19	- 191.314
PI-B19 – PI-B20	- 191.314
PI-B20 – PI-B21	- 191.288

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 (0m – 10m)

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 B - KRAAIFONTEIN TO BRACKENFELL
DN1200 PLAN AND LONGITUDINAL SECTION

SCALE : AS SHOWN — SHEET 1 OF 5

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.	312-0827-B-A01		VER
SANRAL DOCUMENT #	-		V 1