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

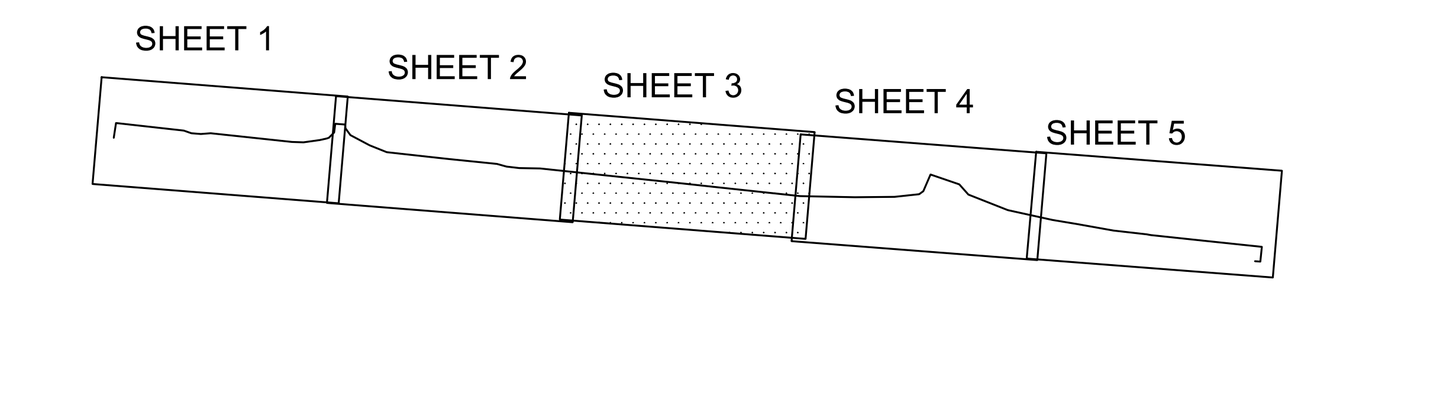
REF	Y	X
PI-B35	27127.806	3747162.556
PI-B36	27374.760	3747355.296
PI-B37	27434.657	3747402.229
PI-B38	27526.079	3747473.866
PI-B39	27630.206	3747555.051
PI-B40	27740.141	3747640.766

SETTING OUT CONTROL

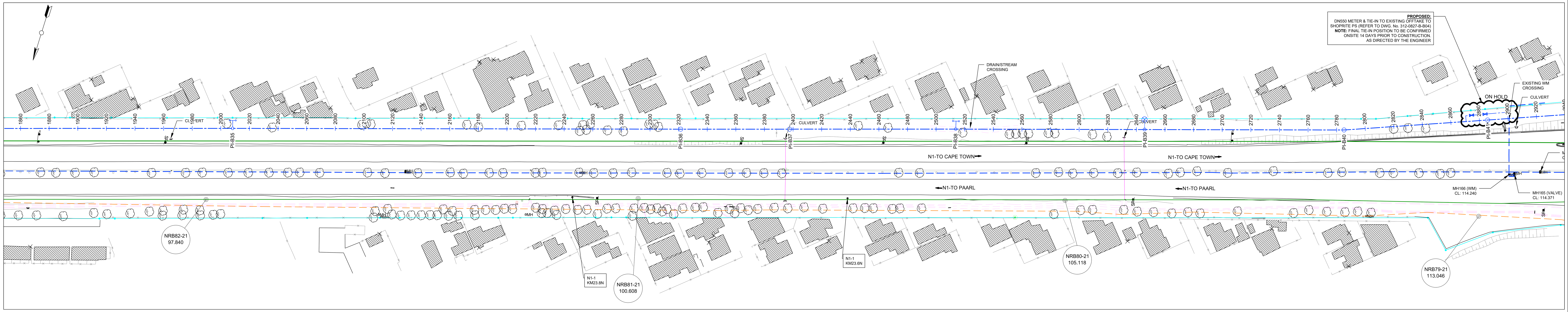
NAME	Y	X	Z	DESCRIPTION
NRB 82-21	27143.88	3747112.01	97.84	
NRB 81-21	27381.19	3747298.82	100.608	
NRB 80-21	27616.98	3747481.76	105.118	
NRB 79-21	27851.43	3747651.34	113.046	

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.

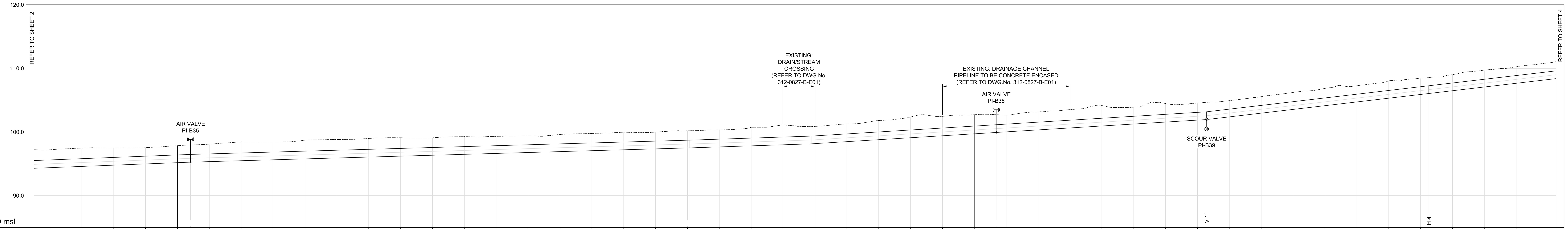


KEYPLAN



PLAN VIEW

SCALE - 1:1000



VER- 1:250
HOR- 1:1000

DATUM : 85.000 msl

PEG DISTANCE AT CH (m)	GROUND LEVEL AT CH	INVERT LEVEL AT CH	DEPTH TO IL AT CH (m)
1910	97.2	94.3	2.9
1920	97.2	94.4	2.8
1940	97.5	94.6	2.9
1960	97.5	94.8	2.7
1980	97.5	95.0	2.5
2000	97.9	95.2	2.7
2020	98.1	95.4	2.7
2040	98.4	95.5	2.9
2060	98.4	95.6	2.8
2080	98.7	95.8	2.9
2100	98.8	95.9	2.9
2120	99.0	96.1	2.9
2140	99.1	96.2	2.9
2160	99.1	96.4	2.7
2180	99.3	96.5	2.8
2200	99.3	96.6	2.7
2220	99.4	96.8	2.6
2240	99.6	96.9	2.7
2260	99.8	97.1	2.7
2280	100.0	97.2	2.7
2300	100.0	97.4	2.6
2320	100.2	97.5	2.7
2340	100.4	97.7	2.7
2360	100.7	97.8	2.9
2380	101.1	98.0	3.1
2400	100.9	98.2	2.7
2420	101.3	98.5	2.8
2440	101.8	98.8	3.0
2460	102.4	99.1	3.3
2480	102.5	99.4	3.0
2500	102.7	99.7	3.0
2520	102.7	100.0	2.6
2540	103.2	100.3	2.8
2560	103.5	100.6	2.9
2580	104.2	101.0	3.2
2600	103.9	101.3	2.6
2620	104.5	101.6	2.9
2640	104.5	101.9	2.7
2660	104.9	102.4	2.5
2680	105.6	103.0	2.6
2700	106.2	103.6	2.7
2720	106.9	104.1	2.7
2740	107.3	104.7	2.5
2760	108.0	105.3	2.7
2780	108.5	105.9	2.6
2800	109.0	106.5	2.5
2820	109.7	107.1	2.6
2840	110.3	107.7	2.6
2860	110.9	108.3	2.6
2865	111.1	108.4	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-B34	1780.7		93.1	2.9	1780.75
PI-B35	2008.2	98.0	95.3	2.7	2008.29
PI-B36	2321.5	100.2	97.5	2.7	2321.56
PI-B37	2397.6	100.9	98.1	2.7	2397.66
PI-B38	2513.7	102.7	99.9	2.8	2513.82
PI-B39	2645.8	104.7	102.0	2.7	2645.87
PI-B40	2785.2	108.6	106.1	2.5	2785.33
PI-B41	2885.8		109.0	2.7	

GRADE 1:	
PI-B34 – PI-B35	102.602
PI-B35 – PI-B36	139.337
PI-B36 – PI-B37	121.095
PI-B37 – PI-B38	64.932
PI-B38 – PI-B39	64.932
PI-B39 – PI-B40	34.059
PI-B40 – PI-B41	34.059

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 B - KRAAIFONTEIN TO BRACKENFELL
DN1200 PLAN AND LONGITUDINAL SECTION

SCALE : AS SHOWN — SHEET 3 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-A03		VER
SANRAL DOCUMENT #	-		V 1

ORIGINAL SCALE: 1 : 100