FMS FIBER RELOCATION WGS84 Lo19		
NAME	Y	X
FMS-01	29 459.743	3 748 984.154
FMS-02	29 436.572	3 748 987.926
FMS-03	29 380.154	3 748 928.542
FMS-04	28 143.436	3 747 834.870
FMS-05	28 107.666	3 747 799.323
FMS-06	26 405.414	3 746 512.779
FMS-07	24 484.265	3 745 413.705
FMS-08	24 312.902	3 745 365.850
FMS-09	24 312.807	3 745 360.021
FMS-10	24 130.555	3 745 291.984
FMS-11	24 110.577	3 745 351.435
FMS-12	23 508.069	3 745 143.405
FMS-13	23 379.773	3 745 095.242
FMS-14	23 056.609	3 744 986.366
FMS-15	23 054.671	3 744 991.644
FMS-16	22 945.394	3 744 958.493
FMS-17	22 752.450	3 744 895.142
FMS-18	22 431.411	3 744 774.888
FMS-19	22 084.261	3 744 666.934
FMS-20	22 026.961	3 744 653.322

FMS FIBER RELOCATION WGS84 Lo19		
NAME	Y	X
FMS-21	21 688.207	3 744 534.120
FMS-21	22 010.032	3 744 641.922
FMS-22	21 679.074	3 744 543.011
FMS-23	21 566.306	3 744 493.489
FMS-24	21 422.100	3 744 435.555
FMS-25	21 270.498	3 744 388.382
FMS-26	20 443.757	3 744 110.327
FMS-28	19 758.215	3 743 886.629
FMS-29	19 647.528	3 743 853.334
FMS-30	19 546.283	3 743 838.467
FMS-31	19 536.332	3 743 808.212
FMS-32	19 554.785	3 743 765.056

WATERMAIN RELOCATION WGS84 Lo19		
NAME	Y	X
WM-01	29 353.991	3 749 229.481
WM-02	29 359.639	3 749 229.336
WM-03	29 357.064	3 749 140.152
WM-04	29 311.014	3 749 141.018
WM-05	29 297.824	3 749 126.593
WM-06	29 328.743	3 749 098.381
WM-07	29 313.791	3 748 865.512
WM-08	29 280.798	3 748 838.539
WM-09	29 312.861	3 748 797.488
WM-10	29 311.842	3 748 623.343
WM-11	29 316.955	3 748 623.324
WM-12	26 167.416	3 746 689.886
WM-13	26 301.520	3 746 514.837

FMS FIBER RELOCATION WGS84 Lo19		
NAME	Y	X
FMS-01	29 459.743	3 748 984.154
FMS-02	29 436.572	3 748 987.926
FMS-03	29 380.154	3 748 928.542
FMS-04	28 143.436	3 747 834.870
FMS-05	28 107.666	3 747 799.323
FMS-06	26 405.414	3 746 512.779
FMS-07	24 484.265	3 745 413.705
FMS-08	24 312.902	3 745 365.850
FMS-09	24 312.807	3 745 360.021
FMS-10	24 130.555	3 745 291.984
FMS-11	24 110.577	3 745 351.435
FMS-12	23 508.069	3 745 143.405
FMS-13	23 379.773	3 745 095.242
FMS-14	23 056.609	3 744 986.366
FMS-15	23 054.671	3 744 991.644
FMS-16	22 945.394	3 744 958.493
FMS-17	22 752.450	3 744 895.142
FMS-18	22 431.411	3 744 774.888
FMS-19	22 084.261	3 744 666.934
FMS-20	22 026.961	3 744 653.322

FMS FIBER RELOCATION WGS84 Lo19		
NAME	Y	X
FMS-21	21 688.207	3 744 534.120
FMS-21	22 010.032	3 744 641.922
FMS-22	21 679.074	3 744 543.011
FMS-23	21 566.306	3 744 493.489
FMS-24	21 422.100	3 744 435.555
FMS-25	21 270.498	3 744 388.382
FMS-26	20 443.757	3 744 110.327
FMS-28	19 758.215	3 743 886.629
FMS-29	19 647.528	3 743 853.334
FMS-30	19 546.283	3 743 838.467
FMS-31	19 536.332	3 743 808.212
FMS-32	19 554.785	3 743 765.056

N1 CAPE TOWN

CONTINUE ON DWG 312-00827-N1ROF01

CONTINUE ON DWG 312-00827-N1ROF03

N1 PAARL

N1 NATIONAL ROAD

SOUTHERN BOUNDARY SERVICE SERV 4.5m WIDE

WESTERN BOUNDARY PIPELIN

CL STORMWATER SERV 3m WIDE

CL SEWER SERV 3m WIDE

EXISTING 1219mmØ BULK WATERMAIN

EXISTING 150mmØ FS PIPE

EXISTING 225mmØ FS PIPE

NEW FMS POSITION.

NEW FMS MANHOLE POSITION.

REFER TO WEMMERSHOEK PIPE LINE DWG FOR THE POSITIONS OF NEW TAKE-OFFS

EXISTING WATERMAIN DISTRIBUTION PIPES TO BE PROTECTED IN POSITION.

NEW 200mm uPVC/CLASS 12 WATERMAIN.

NEW POSITION FOR THE 375mmØ TAKE-OFF PIPE. REFER TO WEMMERSHOEK DWG FOR MORE DETAILS.

NEW WEMMERSHOEK PIPELINE AS PER WEMMERSHOEK DWGS

EXISTING MTN FIBER

FOUL SEWER PIPE TO BE PROTECTED IN POSITION.

VREDEKLOOF ROAD

TAMBOEKIES CRESCENT

MISPANIE CRESCENT

BRAKENFELL BLVD

BRAKENFELL

WELGELEE STREET

BRACKENFELL EXT 48

BRACKENFELL EXT 53

REM 23444

REM 2808

CAPE TOWN

LEGEND

- EXISTING FOUL SEWER PIPE
- EXISTING STORMWATER PIPE
- EXISTING STORMWATER MANHOLE
- EXISTING FOUL SEWER MANHOLE
- EXISTING WATERMAIN PIPE
- EXISTING BULK WATER PIPE
- EXISTING ELECTRIC BOX
- EXISTING STORMWATER CATCHPIT
- EXISTING CAMERA
- EXISTING SIGN BOARD/VMS
- EXISTING GPO MANHOLE
- EXISTING TELKOM/OPENSERVE FIBRE
- EXISTING ELECTRICAL CABLE FOR FMS
- EXISTING GANTRIES
- EXISTING ESKOM HV UG CABLE
- EXISTING ESKOM HV OG CABLE
- EXISTING LIGHT POLE
- EXISTING TELKOM CABLE
- EXISTING SANRAL OPTIC FIBRE
- EXISTING MTN FIBRE
- EXISTING POWER SUPPLY
- CONTROL POINT
- SIGN POST

LEGEND (NEW SERVICES)

- NEW FOUL SEWER PIPE
- NEW FOUL SEWER MANHOLE
- NEW WATERMAIN PIPE
- NEW TELKOM / OPENSERVE CABLE
- NEW TELKOM / OPENSERVE MANHOLE
- NEW 1200mmØ BULK WATERMAIN WEMMERSHOEK PIPE
- NEW SANRAL OPTIC FIBRE
- NEW SANRAL OPTIC FIBRE MANHOLE

SERVICE NOTES:

1. WATER AND SEWER PIPES :
   - LONG SKEW CROSSINGS TO BE RELOCATED PERPENDICULAR TO ROAD WHERE POSSIBLE.
   - VALVE CHAMBERS AND MANHOLES TO BE RELOCATED OUTSIDE OF EXTENT OF WIDENED ROADWAY.
   - SIZE & CLASS OF PIPES TO BE AS PER SERVICE OWNER SPECIFICATIONS UNDER ROADWAY.

NOTES:

1. THE CONTRACTOR MUST INFORM THE ENGINEER AS SOON AS POSSIBLE SHOULD ANY DISCREPANCIES AND/OR AMBIGUITIES ARISE FROM INFORMATION PROVIDED ON THIS DRAWING.
2. FOR ALL TYPICAL ROAD CROSS-SECTIONS, REFER TO DRAWINGS 312-00827-01-RTC01 TO RTC08.
3. FOR ALL PAVEMENT DETAILS, REFER TO DRAWINGS 312-00827-01-RTCP01 TO RTCP06.
4. FOR ALL ROAD SETTING-OUT DATA, REFER TO DRAWINGS 312-00827-01-
5. FOR ALL LONGSECTION INFORMATION, REFER TO DRAWINGS 312-00827-01-
6. FOR ALL ROAD CROSS-SECTION INFORMATION,REFER TO DRAWINGS 312-00827-01-
7. FOR ALL EXISTING SERVICES INFORMATION, REFER TO THE SERVICES LAYOUTS 312-00827-01-
8. FOR ALL DRAINAGE INFORMATION, REFER TO DRAINAGE LAYOUTS.

No.	DATE	REVISION
V1	08/03/2024	ORIGINAL VERSION

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

WESTERN REGION
1 Havenga Street
Oakdale
Bellville
7530

Private Bag X19
Bellville
7535

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 NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENHOF INTERCHANGE (KM 33.00)

SERVICES LAYOUT PLAN
- N1 RELOCATION OF SERVICES LAYOUT -
km 21.000 - km 22.000

SCALE @ A0: 1 : 1000 | SHEET 03 OF 14

PROJECT NUMBER	N001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE		
DRAWING TYPE	ROAD - UTILITIES	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-N1ROF03	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-N1ROF03