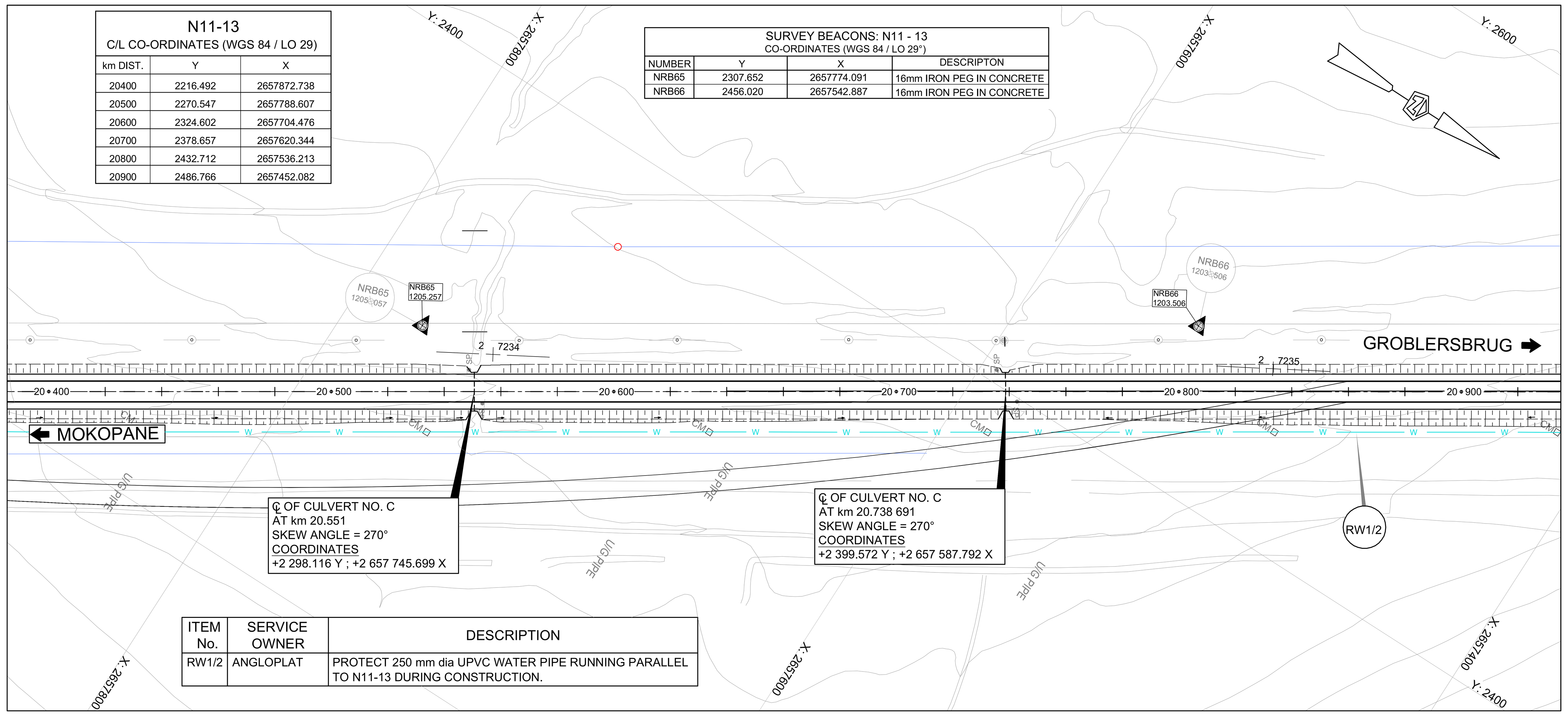


km DIST.	Y	X
20400	2216.492	2657872.738
20500	2270.547	2657788.607
20600	2324.602	2657704.476
20700	2378.657	2657620.344
20800	2432.712	2657536.213
20900	2486.766	2657452.082

NUMBER	Y	X	DESCRIPTON
NRB65	2307.652	2657774.091	16mm IRON PEG IN CONCRETE
NRB66	2456.020	2657542.887	16mm IRON PEG IN CONCRETE

ITEM No.	SERVICE OWNER	DESCRIPTION
RW1/2	ANGLOPLAT	PROTECT 250 mm dia UPVC WATER PIPE RUNNING PARALLEL TO N11-13 DURING CONSTRUCTION.

SITE PLAN
SCALE 1:1000

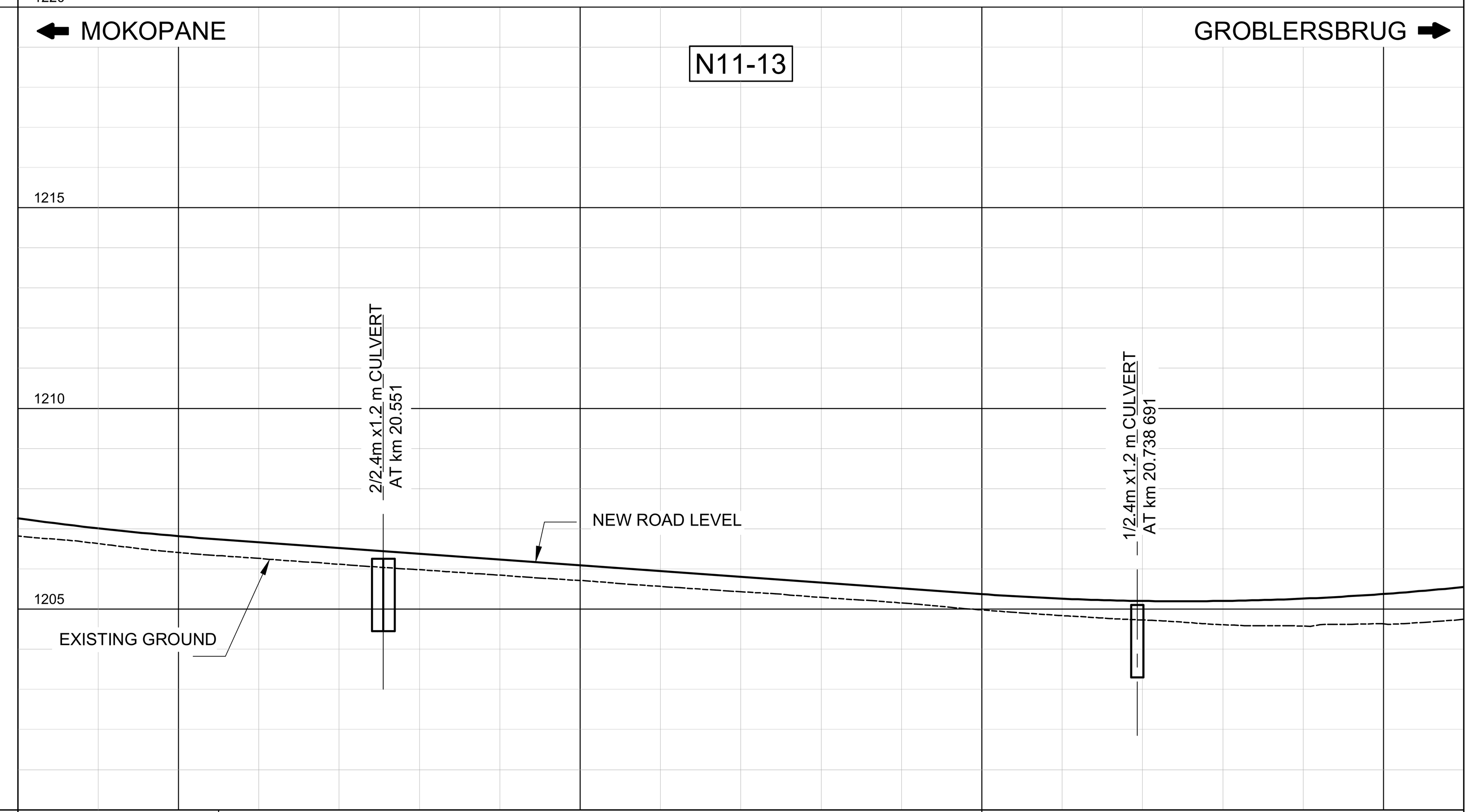
GUARDRAILS	LEFT / RIGHT
KERBS	LEFT / RIGHT
BARRIER LINES	LEFT / RIGHT
SUBSURFACE DRAIN	LEFT / RIGHT
SIDE DRAIN	LEFT / RIGHT
CLIMBING LANES	LEFT / RIGHT

DESIGN SPEED
120 km/h

PROFILE

SCALES:
Horizontal 1:1000
Vertical 1:100

DATUM 1200.000



VERTICAL PROFILE GRADES: EVC 20.510000; -0.718%; BVC 20.700000; VCL=160.000m; K=69; 20.780000; 1204.800; 1.578%

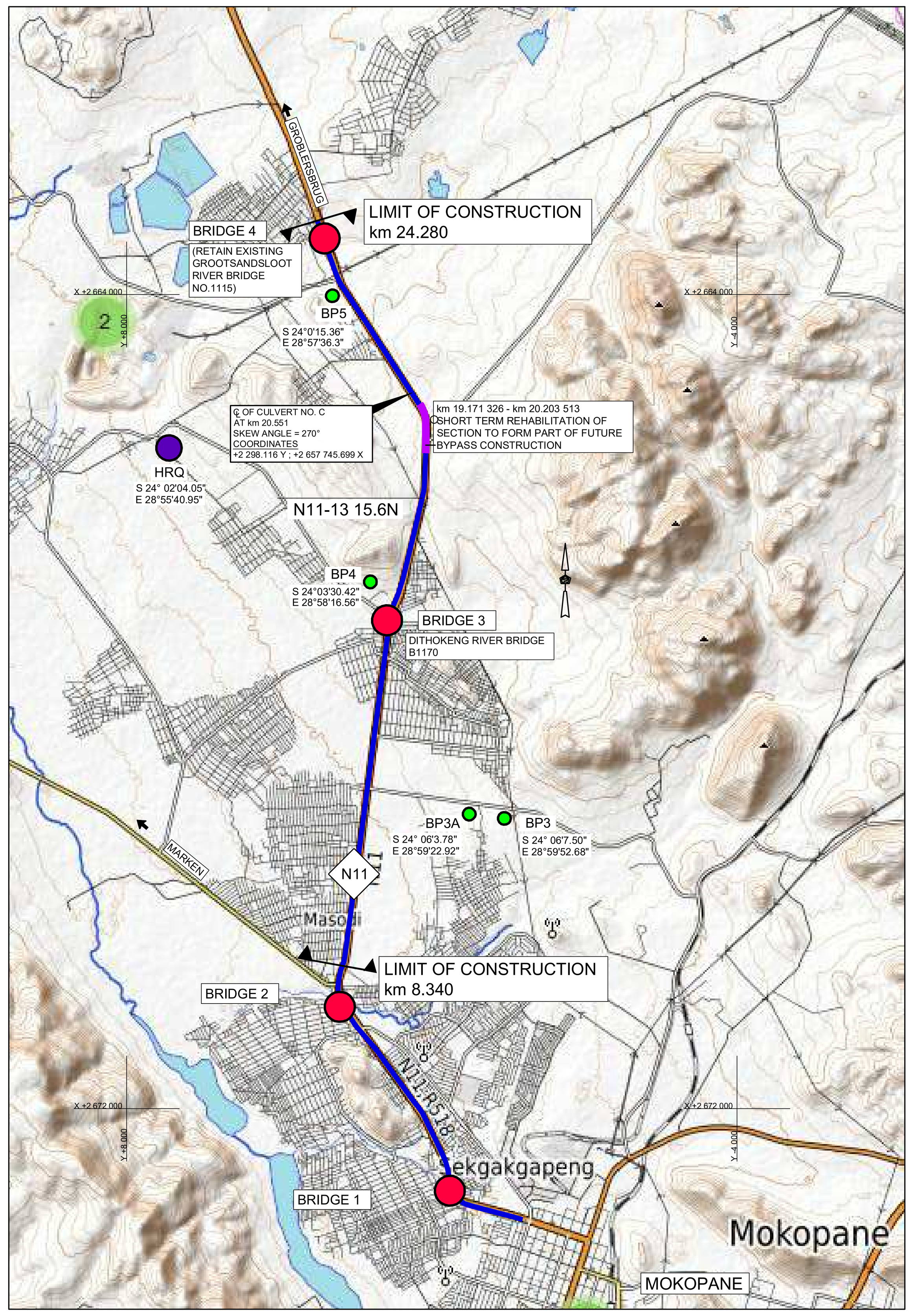
		20.460	20.480	20.500	20.520	20.540	20.560	20.580	20.600	20.620	20.640	20.660	20.680	20.700	20.720	20.740	20.760	20.780	20.800	20.820
FINAL DESIGN ROAD LEVELS	HL = 3.7m LEFT	1207.188	1206.939	1206.743	1206.593	1206.449	1206.305	1206.162	1206.018	1205.875	1205.731	1205.588	1205.444	1205.300	1205.186	1205.128	1205.129	1205.187	1205.303	1205.476
	CENTRE LINE (CL)	1207.262	1207.013	1206.817	1206.667	1206.523	1206.379	1206.236	1206.092	1205.949	1205.805	1205.662	1205.518	1205.374	1205.260	1205.202	1205.203	1205.261	1205.377	1205.550
	HR = 3.7m RIGHT	1207.188	1206.939	1206.743	1206.593	1206.449	1206.305	1206.162	1206.018	1205.875	1205.731	1205.588	1205.444	1205.300	1205.186	1205.128	1205.129	1205.187	1205.303	1205.476
GROUND LEVELS ON CL		1206.824	1206.632	1206.409	1206.262	1206.117	1205.979	1205.844	1205.713	1205.564	1205.432	1205.292	1205.153	1204.980	1204.839	1204.729	1204.613	1204.577	1204.633	1204.747
DISTANCE (km)		20.460	20.480	20.500	20.520	20.540	20.560	20.580	20.600	20.620	20.640	20.660	20.680	20.700	20.720	20.740	20.760	20.780	20.800	20.820

SUPERELEVATION LEFT / RIGHT: -2.0%

HORIZONTAL ALIGNMENT: DIRECTION 147° 16' 40"

APPROVED LONGITUDINAL SECTION: DRAWING NO. 251020/PP0/020/LS

LONGITUDINAL SECTION ALONG N11/13
SCALE: HOR. 1:1000
VERT. 1:100



LOCALITY PLAN
SCALE 1:50 000

LEGEND
- EXISTING TELEPHONE LINE
- NEW RELOCATED TELEPHONE LINE
- EXISTING POWER LINE
- NEW RELOCATED POWER CABLE
- CULVERTS
- DOWN CHUTES
- CHANNEL OUTLET
- CATCHWATER BERM
- EXISTING WATER LINE
- GUARDRAIL
- NEW ACCESS
- FINAL ROAD RESERVE
- EXISTING ROAD RESERVE

NOTATION:

MOKOPANE — GROBLERSBRUG
DIRECTION OF FLOW
DIRECTION OF INCREASING KILOMETRE DISTANCE

LIST OF DRAWINGS

251020-PPO-MC17-01	SITE PLAN
251020-PPO-MC17-02	GENERAL LAYOUT
251020-PPO-MC17-03	GENERAL DETAILS
251020-PPO-MC17-04	REINFORCING LAYOUT AND BENDING SCHEDULE

FOR TENDER PURPOSES ONLY

No.	DATE	REVISION	CONSULT. ENG.

CONSTRUCTION RECORD
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Prof. Reg. No. :
Date :

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All dimensions to be checked on site before any work is put in hand. Refer any discrepancies to the engineer.

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DESIGNED BY — NAME / Prof. Reg. No.
CHECKED BY — NAME / Prof. Reg. No.
DRAWN BY — NAME

CONSULTANT APPROVAL
Name :
Prof. Reg. No. :
Date :

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BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
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Menlo Park
Pretoria
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Private Bag X17
Lynnwood Ridge
0040
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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 CEO: SA NATIONAL ROADS AGENCY LTD.
Date:

REHABILITATION OF NATIONAL ROUTE 11 SECTION 13 FROM R518 INTERSECTION (km 8.340) TO GROOTSANDSLOOT RIVER (km 24.280)

NEW 2/2.40 x 1.20m CULVERT AT km 20.551

SITE PLAN

SCALE : AS SHOWN | **SHEET 1 OF 4**

PROJECT NUMBER	NRA N.011-130-2010/1	
DRAWING LOCATION DATA	START	END
ROUTE	N11	N11
SECTION	13	13
DRAWING km DISTANCE	20.551	20.551
DRAWING TYPE	STRUCTURES-CULVERTS	
BRIDGE/STRUCTURE No.		
CONSULTANT DRAWING No.	251020-PPO-MC17-01	VER
SANRAL DOCUMENT #		V1