

LAYOUT PLAN

LEGEND	
	POSITION OF BORROWPIT
	FENCE AREA
	MATERIAL DESCRIPTION
	PROPOSED USAGE
	TOTAL CAPACITY
	FENCE AREA

QUARRY7 - TIKITIKI NO 404

QUARRY No. 07  
OWNER: Chief L. Gaba  
ADDRESS: Community/Tribal Land  
TEL: 072 300 2066

- NOTES:**
- ANY INVADER SPECIES WILL BE REMOVED FROM THE SITE BEFORE ANY TOPSOIL IS CLEARED. THE TOPSOIL WILL BE STRIPPED TO A MINIMUM DEPTH OF 0.50m IF AVAILABLE AND STORED AWAY FROM DRAINAGE LINES ALONG THE EDGES OF THE EXCAVATED AREA. STOCKPILES WILL NOT EXCEED 1m IN HEIGHT AND WILL NOT BE COMPACTED FOR MORE THAN SIX MONTHS BEFORE BEING USED FOR REHABILITATION. TOPSOIL WILL BE SPREAD ON THE SURFACE AS SOON AS THE QUARRY EXCAVATION HAS BEEN COMPLETED AND ITS SLOPES HAVE BEEN FINISHED OFF AS REQUIRED.
  - THE QUARRY SITE AND EXISTING ACCESS ROAD WILL BE PROPERLY DEMARCATED AND FENCED OFF BEFORE COMMENCEMENT OF MINING OPERATION.
  - DUST EMISSIONS WILL BE EFFECTIVELY CONTROLLED BY APPROPRIATE MEASURES SUCH AS SPRAYING WATER AND/OR OTHER DUST CONTROL MEASURES. EXCAVATED MATERIAL STOCKPILES WILL BE ADEQUATELY PROTECTED AGAINST THE WIND, WHERE NECESSARY, THROUGH MEASURES SUCH AS SHADE CLOTH SCREENS OR HESSIAN COVERING. IN THE SHORT TERM, STOCKPILES MAY ALSO BE DAMPENED TO MINIMIZE DUST GENERATION.
  - VEHICLE SPEEDS WILL BE RESTRICTED TO PREVENT ACCIDENTS, TO REDUCE DUST AND NOISE POLLUTION AND TO PREVENT ANY POSSIBLE INJURY TO LIVESTOCK.
  - ACCESS TO ALL GATES WILL BE CONTROLLED AS AGREED WITH THE LANDOWNER / LESSEE AND IN ACCORDANCE WITH THEIR REQUIREMENTS.
  - A TEMPORARY EATING AREA WILL BE PROVIDED WITHIN THE QUARRY AREA TO ENSURE THAT SITE PERSONNEL DO NOT MOVE OFF SITE TO EAT. ABLUTION FACILITIES WILL BE PROVIDED AND WILL BE LOCATED TO PREVENT THE POLLUTION OF GROUNDWATER. TOILET PAPER WILL BE PROVIDED.
  - TEMPORARY WASTE DISPOSAL AREAS WILL BE DEMARCATED AND FENCED (IF NECESSARY) AND WASTE WILL BE COLLECTED AND STORED IN WEATHERPROOF CONTAINERS (WITH LIDS) WITHIN THIS AREA FOR DISPOSAL AT A LICENSED WASTE DISPOSAL FACILITY. ALL WASTE WILL BE REMOVED FROM SITE BY THE CONTRACTOR. NO BURNING, ON-SITE DUMPING OR BURYING OF WASTE WILL OCCUR.
  - MINING OF QUARRY WILL REQUIRE BLASTING AND CRUSHING.
  - ALL WORKED AREAS WILL BE LEVELED WITH SURPLUS OVERBURDEN AS AVAILABLE FROM STOCKPILE. HARD ROCK BATTERS WILL BE TRIMMED OF LOOSE MATERIAL TO MAKE SAFE.
  - ALL DISTURBED AREAS NOT MINED WILL BE REINSTATED BY SCARIFYING AND SPREADING AVAILABLE TOPSOIL FROM STOCKPILE AND REVEGETATED AS REQUESTED.
  - A REHABILITATION SPECIALIST TO BE CONTACTED PRIOR TO WORK COMMENCING ON SITE TO DETERMINE REQUIREMENTS FOR SEARCH AND RESCUE AND BRUSH CUTTING.

FENCE CO-ORDINATES

NAME	Y	X
QUARRY07_F01	21 993.104	3 468 347.157
QUARRY07_F02	21 993.342	3 468 409.678
QUARRY07_F03	22 437.548	3 468 572.021
QUARRY07_F04	22 479.349	3 468 438.348
QUARRY07_F05	22 438.210	3 468 466.766
QUARRY07_F06	22 331.639	3 468 383.185
QUARRY07_F07	22 259.717	3 468 364.033
QUARRY07_F08	22 055.507	3 468 360.738
QUARRY07_F09	22 002.330	3 468 349.420

FENCED AREA = 5,87 Ha

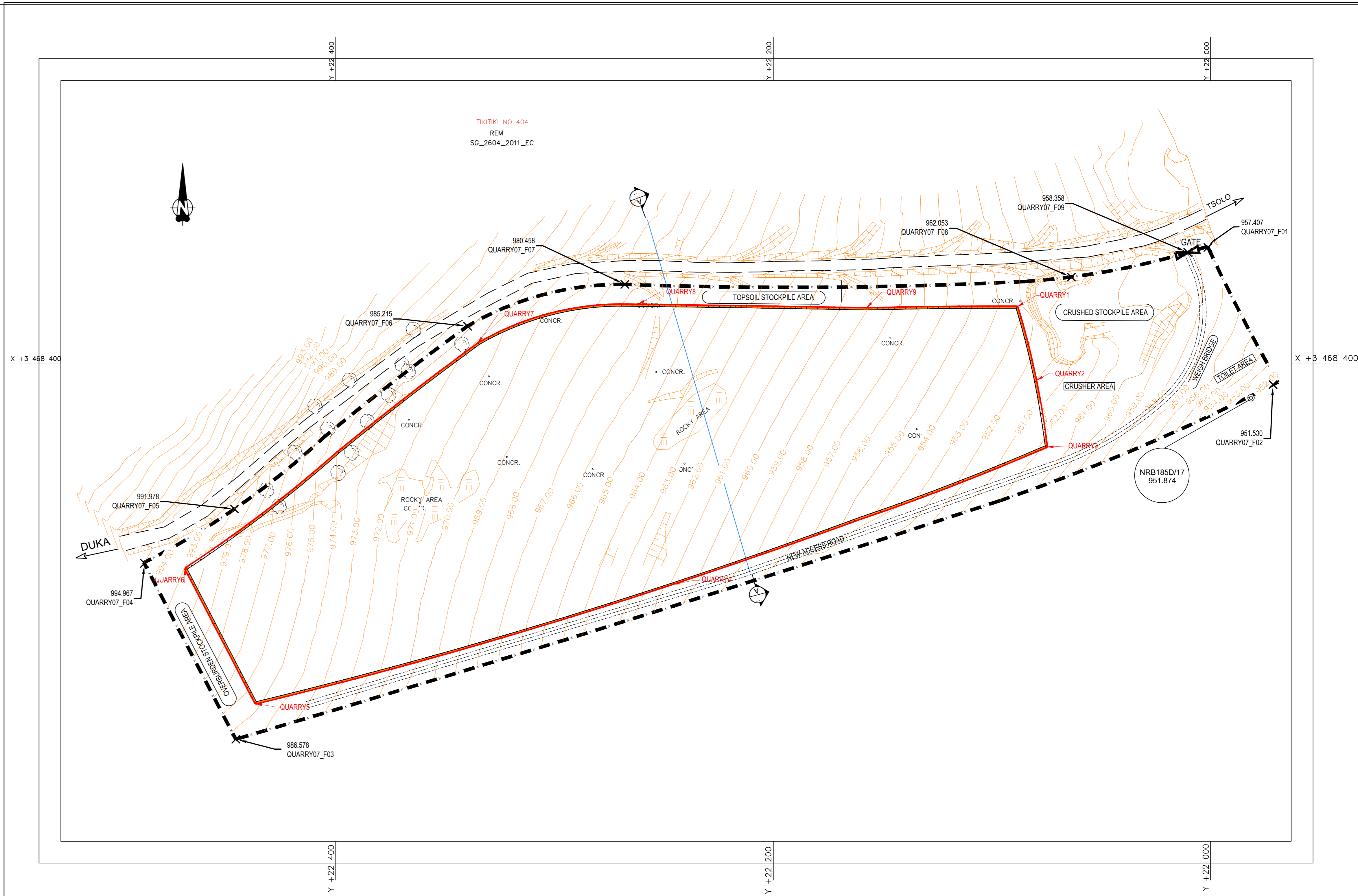
BORROW PIT EXTENT CO-ORDINATES

NAME	Y	X
QUARRY1	22 080.002	3 468 374.390
QUARRY2	22 071.433	3 468 407.859
QUARRY3	22 066.674	3 468 438.348
QUARRY4	22 237.714	3 469 501.248
QUARRY5	22 428.622	3 469 555.774
QUARRY6	22 460.752	3 468 494.002
QUARRY7	22 328.882	3 468 390.797
QUARRY8	22 253.607	3 468 373.124
QUARRY9	22 149.204	3 468 374.765

AREA OF PIT = 4.14 Ha

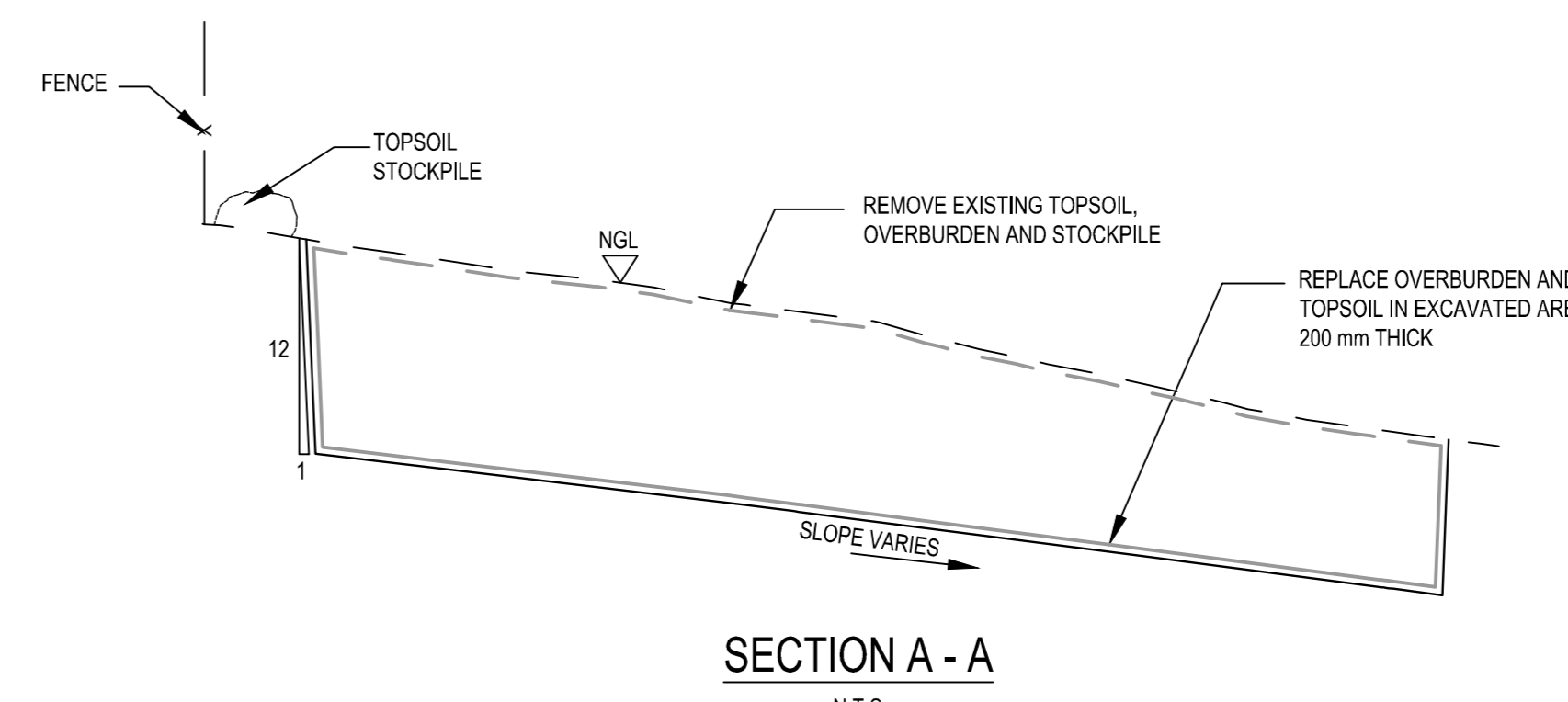
LEGEND	
	TEST HOLES
	BORROW PIT BOUNDARY
	EXTENT OF BORROW PIT
	FENCE BOUNDARY
	FENCE LINE
	BATTER SLOPES
	ELECTRICAL POLE
	OVERHEAD LINE
	CADASTRAL BOUNDARIES

CO-ORDINATES			SYSTEM	WG 29°
POINT	Y <sub>s</sub>	X <sub>s</sub>		Z
NRB185A/17	22439.43	3468575.51		986.752
NRB185B/17	22588.11	3468276.24		1022.933
NRB185C/17	22093.82	3468126.97		953.216
NRB185D/17	21973.34	3468415.97		951.874



LAYOUT PLAN

SCALE 1:1000



SECTION A - A

N.T.S

<p>CONSTRUCTION RECORD</p> <p>WORKS CONTRACT ENGINEER</p> <p>Name: _____</p> <p>Prof. Reg. No.: _____</p> <p>Date: _____</p> <p>SANRAL PROJECT MANAGER</p> <p>Name: _____</p> <p>Date: _____</p>	<p>DESIGNED BY</p> <p>NAME: S BOSKALITSE</p> <p>Prof. Reg. No.: _____</p> <p>CHECKED BY</p> <p>NAME: _____</p> <p>Prof. Reg. No.: _____</p> <p>DESIGN/DRAWN BY</p> <p>NAME: S BOSKALITSE</p>	<p>CONSULTANT APPROVAL</p> <p>Name: S van WYK</p> <p>Prof. Reg. No.: 9070132</p> <p>Date: 05/12/2016</p>	<p>HEAD OFFICE</p> <p>48 Tambotie Avenue Val de Grace Pretoria 0184</p> <p>P.O. Box 415 Pretoria 0001 South Africa</p> <p>Tel: (012) 844 8000</p>	<p>SOUTHERN REGION</p> <p>20 Shoreward Drive Bay West Port Elizabeth 6025</p> <p>P.O. Box 24210 Bay West Port Elizabeth 6034</p> <p>Tel: (041) 398 3200</p>	<p>ACCEPTANCE</p> <p>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</p> <p>for CEO: SA NATIONAL ROADS AGENCY SOC LTD.</p> <p>Date: _____</p>	<p>PROJECT DESCRIPTION</p> <p>REHABILITATION OF NATIONAL ROUTE 2 SECTION 19 BETWEEN NGADU (km 21,7) AND MZEKE RIVER (km 55,4) AND SAFETY IMPROVEMENTS AT DAN'S (km 17,0 TO 19,0)</p> <p>DESCRIPTION</p> <p>QUARRY 7 - N2-19 Km 100 LEFT</p>	<p>PROJECT NUMBER</p> <p>N.002-190-2013/1F</p>	<p>DRAWING LOCATION DATA</p> <p>ROUTE</p> <p>SECTION</p> <p>DRAWING km DISTANCE</p> <p>DRAWING TYPE</p> <p>BRIDGE/STRUCTURE No.</p> <p>CONSULTANT DRAWING No.</p> <p>SANRAL DOCUMENT #</p>	<p>START</p> <p>N2</p> <p>19</p>	<p>END</p> <p>N2</p> <p>19</p>	<p>VER</p> <p>V0</p>

No.	DATE	REVISION	CONSULT. ENG.
V0	15/02/2017	PRELIMINARY DESIGN	

DESIGNED BY

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**SANRAL**

BUILDING SOUTH AFRICA THROUGH BETTER ROADS

for CEO: SA NATIONAL ROADS AGENCY SOC LTD.

SCALE: AS SHOWN

SHEET 3 OF 4

PROJECT NUMBER

N.002-190-2013/1F

DRAWING LOCATION DATA

ROUTE

SECTION

DRAWING km DISTANCE

DRAWING TYPE

BRIDGE/STRUCTURE No.

CONSULTANT DRAWING No.

SANRAL DOCUMENT #