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ESKOM DISTRIBUTION (NORTHERN REGION)

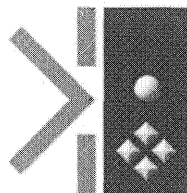
**ARCHAEOLOGICAL AND HERITAGE IMPACT
ASSESSMENT STUDY FOR THE PROPOSED
CONSTRUCTION OF ELECTRICITY DISTRIBUTION
POWERLINES WITHIN, LIMPOPO PROVINCE**

**PHASE 1 ARCHAEOLOGICAL AND HERITAGE ASSESSMENT
SPECIALIST STUDY**

DECEMBER 2006, POLOKWANE

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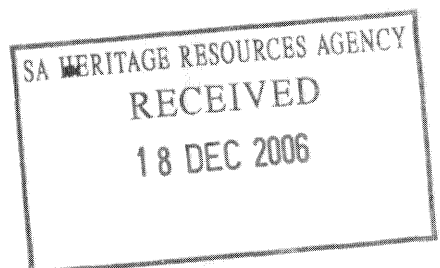
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heritage solutions south africa

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REPORT DETAILS

PROJECT:	Development of Proposed Distribution Powerlines in Limpopo Province (Eskom Northern Region areas)
REPORT TITLE:	ARCHAEOLOGICAL IMPACT ASSESSMENT AND CULTURAL HERITAGE ASSESSMENT SPECIALIST STUDY
AUTHOR:	Dr McEdward Murimbika
REFERENCE NO.:	AIA/Eskom/13
STATUS OF REPORT:	Final
FINAL ISSUE:	Date: December 2006
STUDY LEADER	Dr. McEdward Murimbika <i>Qualifications:</i> (PhD. [Archaeology], Univ. of Witwatersrand; M.Phil. [Archaeology] 1999, Univ. Of Bergen, Norway; Graduate International Certificate in African Archaeology, 1998, Univ. of Brussels, Belgium; BA Hons. & BA Gen. [Archaeology] 1995 & 1994, UZ). <i>Contacts:</i> Mobile Phone: 083 6136530
FIELD STUDY TEAM	Principal Investigator: Dr. McEdward Murimbika Field Archaeologist: Moses Mabuda (BA & BA Hons, 2001 & 2002, Univ. of Venda)
PROFESSIONAL SERVICE PROVIDER (PSP)	Nzumbululo Heritage Solutions (South Africa) cc.

PROJECT LIST FOR POWERLINE COVER IN THIS SYUDY

Project No	Property Name	Customer
1.CML 213/1	Ga-Ramoswagane Village	Eskom
2.CMA 325/1	Mashashane Moshate Village	Eskom
3. GHK 279/1 Recloser	Verstooteling 670 LR	Eskom
4. Recloser 2006 DV41/1	Polokwane	Eskom
5.FK112/621 Recloser	Kruger National Park	Eskom
6.06DA105564	OELFZYL 353 M.S	Stony River Properties 109BK C
7.06DDN108384	Weltevredem 162 L.S	Capricon District Municipality
8.06MMNK100367A	Vulcanus 584 LS	Mashitsho J
9.TH001396	Seelig 206 LT	Khosa Joseph
10. Makgaung Ext Electrification		Geospace International (PTY)Ltd
11.STT91/2		Eskom
12.06JFE100765	Ga-Mogashoa	Makgeru M.G
13.06LEB73057 (2)	Vallis 36 KT-and Canyon 63KT	Lepelle Nkumpi Municipality Mafefe Ga-Mampa
14.06LEB97721	Krokodil Village	Krodil Heuwel Pump E
15. 06LEB101745	Grootdraai 429 KS	ZM Makgai
16. 06LEB97726	Krokodile Village	Krodil Heuwel Pump D
17.06JFE88096	Mooiplaats 516 KS	Mamakgane Seema
18.DV116/1Recloser	Klein Collie 123 LS PTN 3	Eskom
19.06PTB967790	PTN 1 Dalmada AH Plot 171	E.J Erasmus
20. 06PTB95570	Doornbult 624 LS PTN 70	M. Putter

MANAGEMENT SUMMARY

BACKGROUND

ESKOM Distribution (Northern Region) in Polokwane, Limpopo Province, commissioned the study. This report combines the Archaeological Impact Assessment (AIA) and Cultural Heritage Impact Assessment (HIA) studies that were conducted as part of the Environmental Impact Assessment (EIA) for proposed construction of 20 electricity distribution powerlines project. The installation works cover residential, commercial and agricultural properties in different districts of Limpopo Province. This heritage specialist phase 1 study focus to potential impacts on archaeological, cultural, and historical heritage resources associated the proposed powerlines development's receiving environments.

SUMMARY RESULTS

The field site surveys were conducted by two HeSSA heritage specialists (Dr Murimbika [PI] and Mabuda [Field Archaeologist]). No archaeological, physical cultural remains or materials were identified on any of the 20 separate routes or sites covered in this study. The powerlines are designed to distribute electricity to already developed and built up areas. They largely traverse through residential properties and local roads and streets, or open agricultural land. With the level of disturbances observed, the chances of identifying archaeological materials *in situ* were very slim in all cases covered in this report.

SUMMARY RECOMMENDATIONS

- No archaeological or cultural heritage materials were identified on all 20 of the proposed powerline routes and installation works.
- The areas affected are already developed by existing residential, agricultural and other associated infrastructures, and as such it is not necessary to implement any monitoring procedures since the affected areas are unlikely to yield archaeological or other physical cultural resources of significance *in situ*.
- By nature, the powerline developments are unlikely to have any impact on chance archaeological or cultural heritage resources in the areas earmarked for the development.
- With these considerations, this study did not identify archaeological or cultural heritage barriers to the proposed powerline developments. As such we recommend to the heritage authorities that all 20 distribution lines be approved for development as planned.

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ABBREVIATIONS

AIA	Archaeological Impact Assessment
HIA	Heritage Impact Assessment
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report
HeSSA	Nzumbululo Heritage Solutions (South Africa)
SAHRA	South African Heritage Resources Agency

DEFINITIONS

Archaeological Material remains resulting from human activities, which are in a state of disuse and are in, or on, land and which are older than 100 years, including artefacts, human and hominid remains, and artificial features and structures.

Chance Finds Archaeological artefacts, features, structures or historical cultural remains such as human burials that are found accidentally in context previously not identified during cultural heritage scoping, screening and assessment studies. Such finds are usually found during earth moving activities such as water pipeline trench excavations.

Cultural Heritage Resources Same as Heritage Resources as defined and used in the South African Heritage Resources Act (Act No. 25 of 1999). Refer to physical cultural properties such as archaeological and palaeontological sites; historic and prehistoric places, buildings, structures and material remains; cultural sites such as places of ritual or religious importance and their associated materials; burial sites or *graves* and their associated materials; geological or natural features of cultural importance or scientific significance. Cultural Heritage Resources also include intangible resources such as religion practices, ritual ceremonies, oral histories, memories and indigenous knowledge.

Cultural Significance The complexities of what makes a place, materials or intangible resources of value to society or part of, customarily assessed in terms of aesthetic, historical, scientific/research and social values.

Grave A place of interment (variably referred to as burial), including the contents, headstone or other marker of such a place, and any other structure on or associated with such place. A grave may occur in isolation or in association with others where upon it is referred to as being situated in a cemetery.

Historic Material remains resulting from human activities, which are younger than 100 years, but no longer in use, including artefacts, human remains and artificial features and structures.

In Situ material *Material culture* and surrounding deposits in their original location and context, for example an archaeological site that has not been disturbed by farming.

Material culture Buildings, structure, features, tools and other artefacts that constitute the remains from past societies.

Site A distinct spatial cluster of artefacts, structures, organic and environmental remains, as residues of past human activity.

ARCHAEOLOGICAL AND HERITAGE IMPACT ASSESSMENT STUDY FOR THE PROPOSED CONSTRUCTION OF ELECTRICITY DISTRIBUTION POWERLINES WITHIN, LIMPOPO PROVINCE

1 INTRODUCTION

This Archaeological Impact Assessment (AIA) incorporating the Cultural Heritage Impact Assessment (HIA) study was conducted in line with Section 38 of the National Heritage Resources Act (Act No 25 of 1999). The studies on 20 separate sites were conducted with the view to determine whether there is any impact or potential impact on archaeological and other heritage resources that may be situated on the areas affected by the proposed development of 20 electricity distribution lines and installation works in districts of Limpopo Province. This AIA and HIA study forms part of the Environment Impact Assessment (EIA) program.

Table 1: Terms of Reference for the AIA and HIA Study associated with the proposed Eskom Powerlines developments.

PURPOSE	ACTIVITIES
<ul style="list-style-type: none"> <input type="checkbox"/> To fulfil requirements of the National Heritage Resources Act, Act No. 25 of 1999, Section 38. In so doing - <input type="checkbox"/> Identify and describe (in terms of their conservation and / or preservation importance) sites of cultural and archaeological importance that may be affected by the development of distribution powerlines. This study should include the identification of gravesites. <input type="checkbox"/> Identify and describe impacts on archaeological and cultural heritage resources associated with the proposed development within the affected areas. 	<ul style="list-style-type: none"> <input type="checkbox"/> Identify, describe and map sites of archaeological, historical or cultural interest affected by the powerline projects. <input type="checkbox"/> Identify, where possible, the gravesites affected by the development. <input type="checkbox"/> Describe the importance or significance of these sites and whether these sites need to be conserved, protected or relocated. <input type="checkbox"/> Describe the procedures for mitigation or relocation of sites and provide an indication of time required for these management measures to be implemented. <input type="checkbox"/> Document findings and recommendations.

2 BRIEF BACKGROUND

The proposed 20 powerline and installation sites covered in this study forms part of a larger region-wide ESKOM Distribution projects to deliver electricity to the local communities, business commercial farmers and other users. These distribution

powerlines and installations are designed to traverse over already developed or to be compatible with existing developments in affected areas. By nature, the proposed developments have the potential of affecting archaeological sites that may be on the routes of the powerlines. However, the impact would be limited to areas where powerline poles will be erected. The extent of the impact of the development is also limited to linear routes.

From a culture history perspective, all districts of Limpopo within which the lines will be developed, in general, have a long history of human occupation. It is not feasible in the context of the present report to give detailed historical or culture history for each locality affected by the powerlines or the limited installation works. Although they are far and wide across districts, they are all planned in a uniform way. Nonetheless, today predominantly Northern Sotho-Tswana-speaking, Venda-speaking, and XiTsonga-speaking communities occupy the areas (see Hammond-Tooke, 1993 for overview of Limpopo communities). The Afrikaner-speaking farming communities occupy most of the commercial farming areas across the districts. As such, there are possibilities of encountering archaeological and historical sites in the areas where the lines would be developed.

3 METHODS

Eskom Distribution provides us with topographic and line route survey maps detailing the route and coordinates of individual poles that will be erected for each line or sites of each installation. With these background data, we begin our AIA and HIA studies with a desktop surveys of archaeological databases and inventories in search of available data on the heritage of the study areas. We then proceeded to conducted archaeological and cultural heritage field surveys of each powerline route and individual installation sites. We follow the coordinates and maps already produced by the client (Eskom). Subsequently we conducted an assessment and produced this report.

We conducted reconnaissance study to collect geographical and topographical background information within the affected areas. During the site surface surveys we sought to identify archaeological sites and physical cultural resources signatures as well as other cultural heritage sites such as graves or burial grounds, and religious or sacred sites associated with the proposed powerline routes

Identification of archaeological sites during surveying depends on visibility and accessibility. The proposed development areas are all easily accessible and are associated with existing developments including residential properties, farm land and business establishments. The existing developments and associated infrastructure are the recipients of the electricity to be distributed through the proposed powerlines.

4 RESULTS

The surveys investigated individual powerline routes and installation sites using already established survey routes and marked electricity powerline pole positions. The results of the surveys and the associated recommendations were tabulated for individual lines using a generic data form specifically developed for similar Eskom projects (see Appendix 1).

Projects Location Details

Province: Limpopo

Name of Properties: see Table 2

Proposed development: Linear development and erection of electricity distribution lines in 20 localities (Appendix 1).

1:50 000 map name: (see attached Maps –Appendix 1)

GPS Co-ordinates: see attached records.

Current land use of the site: All powerlines traverse above land characterised by residential properties, commercial agricultural land, business infrastructures and open grazing lands (see attached records and maps for each of the 20 powerline routes and installation sites covered in this study – Appendix 1).

Table 2: Eskom Distribution Northern Region AIA & HIA Projects

Project No	Property Name	Customer
1.CML 213/1	Ga-Ramoswagane Village	Eskom
2.CMA 325/1	Mashashane Moshate Village	Eskom
3. GHK 279/1 Recloser	Verstooteling 670 LR	Eskom
4. Recloser 2006 DV41/1	Polokwane	Eskom
5.FK112/621 Recloser	Kruger National Park	Eskom
6.06DA105564	OELFZYL 353 M.S	Stony River Properties 109BK C
7.06DDN108384	Weltevredem 162 L.S	Capricon District Municipality
8.06MMNK100367A	Vulcanus 584 LS	Mashitisho J
9.TH001396	Seelig 206 LT	Khosa Joseph
10. Makgaung Ext Electrification		Geospace International (PTY)Ltd
11.STT91/2		Eskom
12.06JFE100765	Ga-Mogashoa	Makgeru M.G
13.06LEB73057 (2)	Vallis 36 KT-and Canyon 63KT	Lepelle Nkumpi Municipality Mafefe Ga-Mampa
14.06LEB97721	Krokodil Village	Krodil Heuwel Pump E
15. 06LEB101745	Grootdraai 429 KS	ZM Makgai
16. 06LEB97726	Krokodile Village	Krodil Heuwel Pump D
17.06JFE88096	Mooiplaats 516 KS	Mamakgane Seema
18.DV116/1Recloser	Klein Collie 123 LS PTN 3	Eskom
19.06PTB967790	PTN 1 Dalmada AH Plot 171	E.J Erasmus
20. 06PTB95570	Doornbult 624 LS PTN 70	M. Putter

Archaeological and Cultural Sites

No archaeological sites or other categories of physical cultural heritage properties or materials were identified on the affected areas on all 20 localities surveyed. It is not possible at this stage to measure frequency or probability of occurrence of impacts on unidentified heritage resources in these circumstances. However, we note that there is always a probability of discovering archaeological sites during subsurface earth moving activities such as those associate with infrastructures foundations construction work

Historic Monuments

No historical sites or features of significance were identified along or near all 13 powerline routes covered in this report. (see record for each site attached).

Cemeteries and burial sites

No burial grounds or graves were identified on direct route of any of the powerline routes.

5 STATEMENT OF OVERALL IMPACTS

Should previously unidentified archaeological or any other physical cultural materials be discovered on any of the powerline route sites during the powerline development, the impact will be permanent in nature; extent and duration (also see Bickford and Sullivan,

1977). However, based on field observations and the extent of disturbances on powerline routes, it is unlikely that archaeological materials could be found *in situ* at any stage of the development. As such, no impacts were identified or measured in probabilities or intensity for all 20 localities (see Table 2 and Appendix 1). Furthermore, most of the portions of the affected areas are already disturbed or developed leaving little chance of locating chance archaeological materials.

6 RECOMMENDATIONS

No further predevelopment archaeological or heritage study or mitigation is necessary for the physical cultural heritage resources with regards to the proposed development of electricity distribution powerlines and installations on all 20 localities covered in this study. However, should any archaeological materials be discovered in the course of the development, we recommend that the contractors notify the heritage authorities who will recommend an alternative position for the affected powerline pole or installation.

7 CONCLUDING REMARKS

If our recommendations are taken into consideration, from a heritage perspective, the proposed Eskom Distribution Powerline developments on 20 localities covered by this report are unlikely to impact upon archaeological or physical cultural heritage resources of significance. As such there are no identified archaeological or cultural heritage barriers to the proposed developments. We recommend that the Heritage Authorities approve the powerline development projects to proceed as planned.

8 REFERENCES

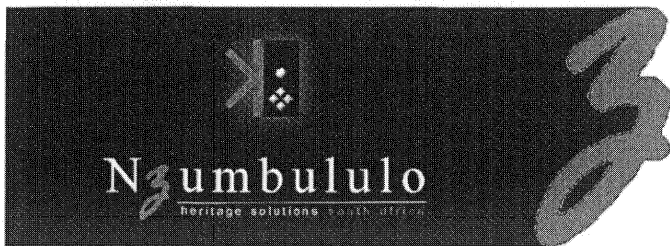
Bickford, A and Sullivan, S. 1977. "Assessing the research significance of historic sites" in S Sullivan and S. Bowdler (eds), *Site Surveys and Significance assessment in Australian Archaeology*. Canberra: ANU.

Hammond-Tooke, D.1993. *The roots of Black South Africa*. Johannesburg: Jonathan Ball Publishers

National Heritage Resources Act (Act No 25 of 1999).

APPENDIX 1:

**DETAILED RESULTS FORMS AND MAPS FOR 24 LOCALITIES FOR Eskom
DISTRIBUTION POWERLINE DEVELOPMENT IN LIMPOPO PROVINCE**



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heresa5@telkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

FEEDER: MATALAS 22KV	CUSTOMER: ESKOM
PROJECT NO : CML231/1	PROPERTY: GA-RAMOSWAGANE VILLAGE
LENGTH OF LINE: NA	MAP REFERENCE: SCALE : 1: 1250
CO-ORDINATES:	T-OFF: -11796.63 (Y) 2614901.31 (X) TERMINAL: -11797.24 (Y) 2614774.35 (X)

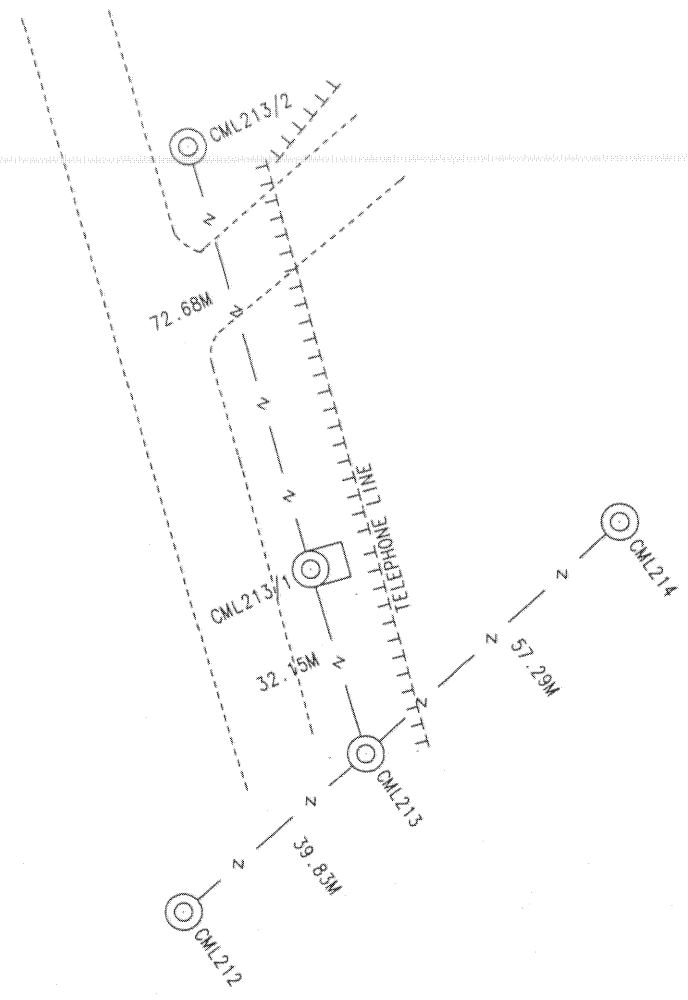
SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed work include installation of the recloser on an existing pole.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involve installation of recloser and work is not covered under the NHRA Act 25 of 1999 Sec 38.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary- work is not listed under the NHRA Act 25 of 1999 Sec 38.

..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

RV3

GA-RAMOSWAGANE VILLAGE

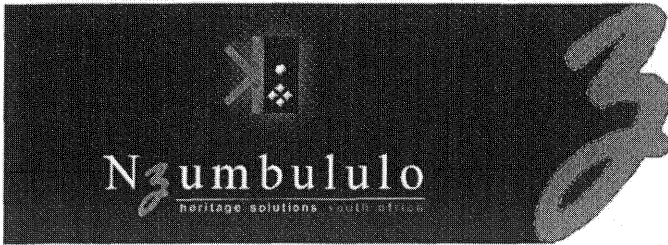


P O BOX 3499
 POLOKWANE
 0700
 TEL (015) 299 0510
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FEEDER:	MATALAS 22kV	CUSTOMER:	ESKOM
PROJECT No:	CML213/1	PROPERTY:	GA-RAMOSWAGANE VILLAGE
CONDUCTOR TYPE:		SURVEY DATE:	06 JUNE 2006
LENGTH OF LINE:	0.00M	COMPILATION:	
SURVEYOR:	SHITA INFRASTRUCTURE	SCALE:	1:1250

Datum/ System	LO	Project No	Customer	Feeder		Pole No	Description	Structure	Equip	Y	X	Z	LATITUDE
				Code	Surveyor			Type					
WGS84	29	CML213/1	ESKOM	CML	MN Maleka	CML212	Ex Pole	Inter	None	-11796.63	2614901.31	1187.16	23° 38' 7.09449" S
WGS84	29	CML213/1	ESKOM	CML	MN Maleka	CML213	Ex Pole	Inter	None	-11826.53	2614875	1187.78	23° 38' 6.23877" S
WGS84	29	CML213/1	ESKOM	CML	MN Maleka	CML214	Ex Pole	Inter	None	-11868.73	2614836.26	1188.74	23° 38' 4.97826" S
WGS84	29	CML213/1	ESKOM	CML	MN Maleka	CML213/1	Ex Pole	Inter	None	-11817.54	2614844.14	1187.57	23° 38' 5.23563" S
WGS84	29	CML213/1	ESKOM	CML	MN Maleka	CML213/2	Ex Pole	Inter	None	-11797.24	2614774.35	1187.34	23° 38' 2.96784" S

	Survey
LONGITUDE	Date
29° 06' 56.20269" E	06/06/2006
29° 06' 57.25678" E	06/06/2006
29° 06' 58.74457" E	06/06/2006
29° 06' 56.93866" E	06/06/2006
29° 06' 56.22055" E	06/06/2006



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hessa6@telkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

FEEDER: MATLAPA 22KV	CUSTOMER: ESKOM
PROJECT NO : CMA 325/1	PROPERTY: MASHASHANE MOSHATE VILLAGE
LENGTH OF LINE: NA	MAP REFERENCE: SCALE : 1: 1250
CO-ORDINATES:	T-OFF: -13635.54 (Y) 2648912.68 (X) TERMINAL: -13748.14 (Y) 2649031.52 (X)

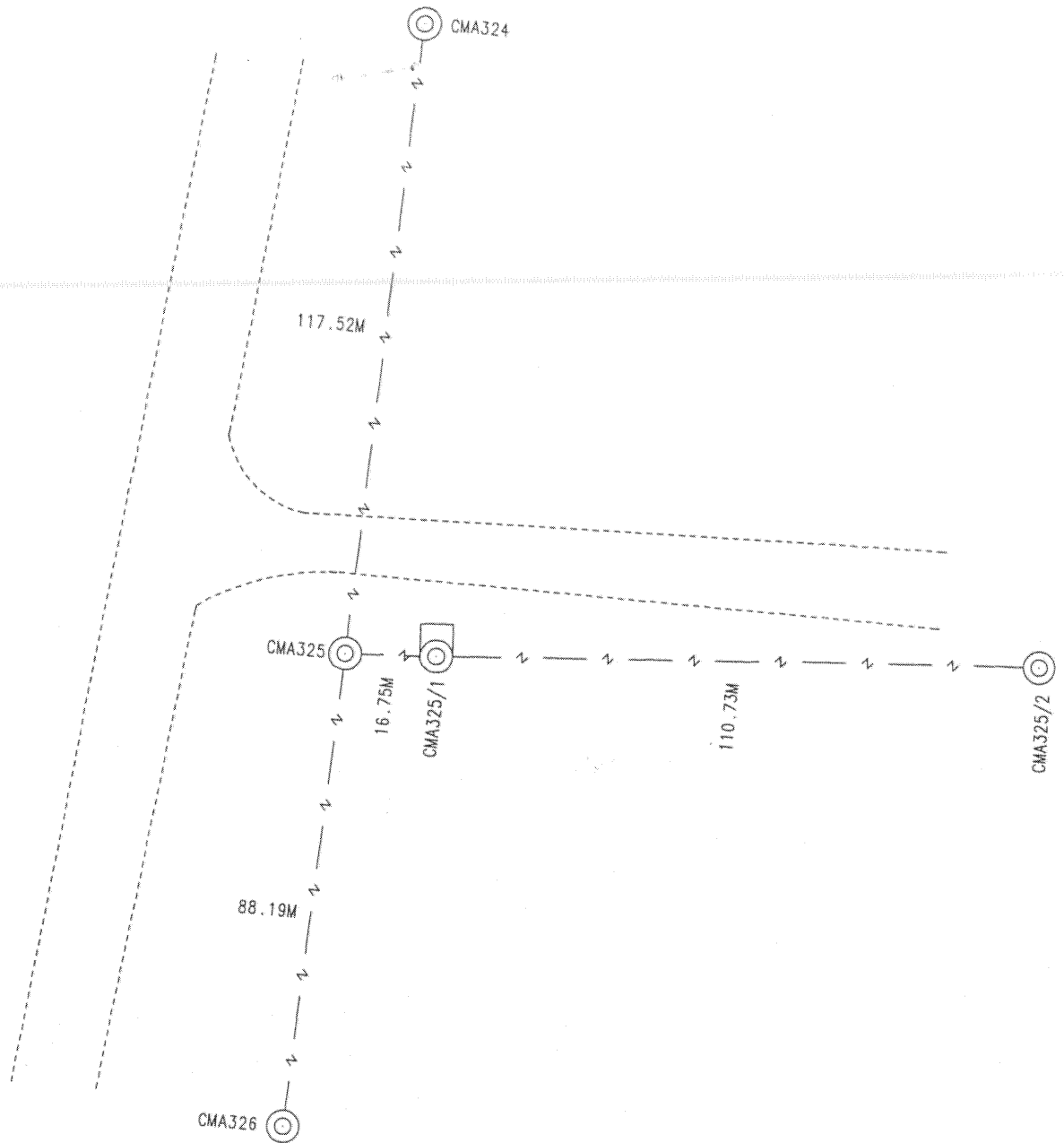
SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed work involves installation of the recloser on an existing pole.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involves installation of recloser and work is not covered under the NHRA Act 25 of 1999 Sec 38.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary- work is not listed under the NHRA Act 25 of 1999 Sec 38.

..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

MASHASHANE MOSHATE

RVS



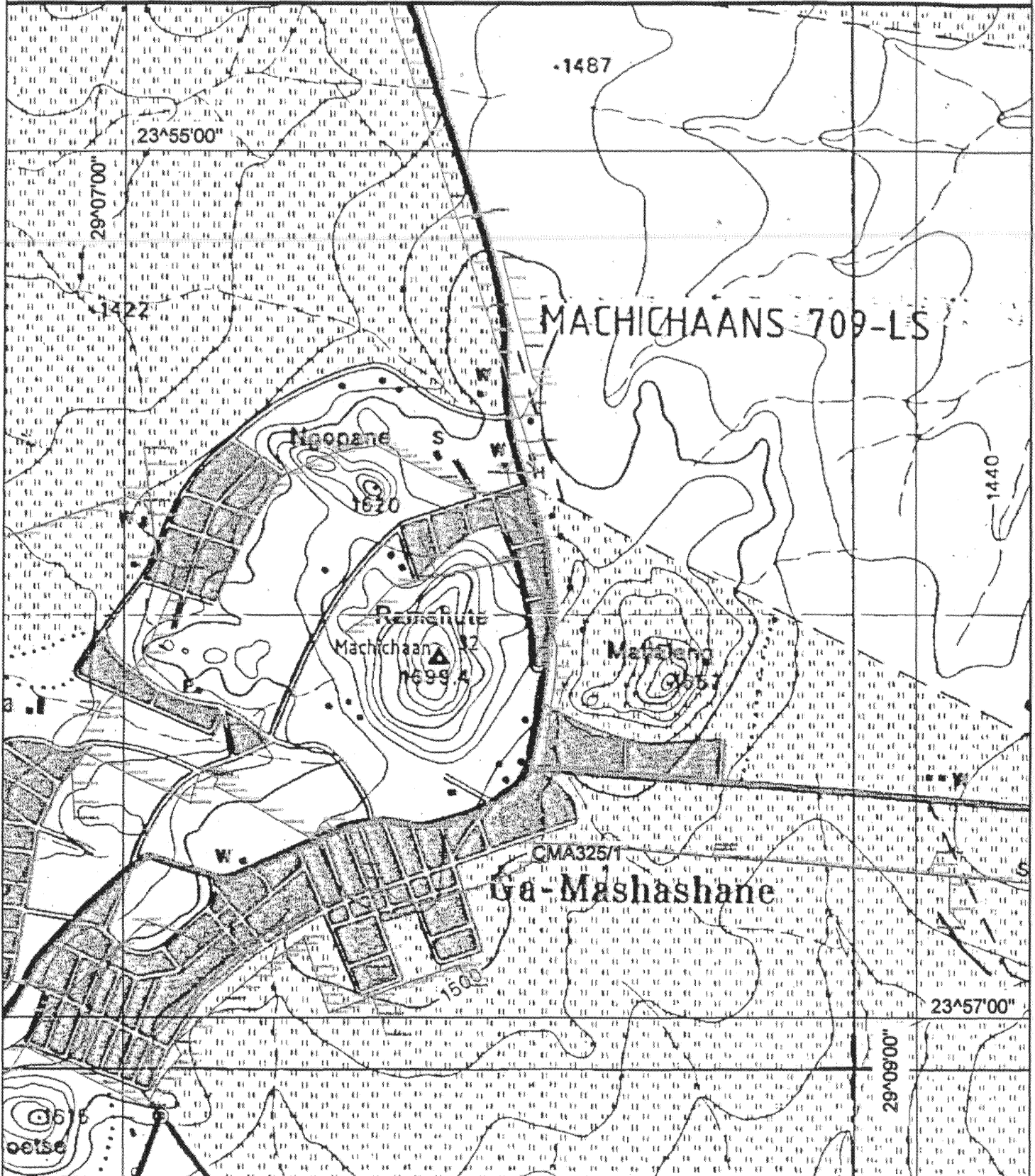
NORTHERN ENGINEERING DIVISION
 NORHTERN REGION
 LAND DEVELOPMENT
 DISTRIBUTION



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FEEDER:	MATLAPA 22kV	CUSTOMER:	ESKOM
PROJECT No:	CMA325/1	PROPERTY:	MASHASHANE MOSHATE VILLAGE
CONDUCTOR TYPE:		SURVEY DATE:	06 JUNE 2006
LENGTH OF LINE:	0.00M	COMPILATION:	
SURVEYOR:	SHITA INFRASTRUCTURE	SCALE:	1:1250

DASHED RED LINE INDICATES POWERLINE ROUTE

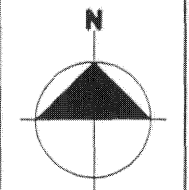


Route plan
Northern Region

Disclaimer
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in external datasets displayed on this map.
The following external datasets were used:
Cadastral
Topographical

Feeder: MATLAPA 22kV
Customer: ESKOM
Project No: RECLOSERS 2006 CMA325/1
FSA / TSA Area: MANKWENG / POLOKWANE

2329 CC S
Portion of map no:
Scale: 1:25 000

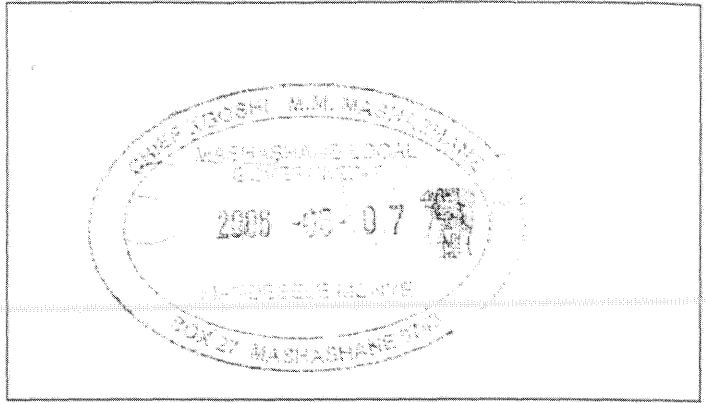


CLARKE 1880

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Datum/ System	LO	Project No	Customer	Feeder		Pole No	Description	Structure Type	Equip	Y	X	Z	LATITUDE
WGS84	29	CMA325/1	ESKOM	CMA	MN Maleka	CMA324	Ex Pole	Inter	None	-13635.54	2648912.68	1519.41	23° 56' 32.54910" S
WGS84	29	CMA325/1	ESKOM	CMA	MN Maleka	CMA325	Ex Pole	Inter	None	-13620.87	2649029.17	1514.62	23° 56' 36.33611" S
WGS84	29	CMA325/1	ESKOM	CMA	MN Maleka	CMA326	Ex Pole	Inter	None	-13609.34	2649116.6	1515.16	23° 56' 39.17821" S
WGS84	29	CMA325/1	ESKOM	CMA	MN Maleka	CMA325/1	Ex Pole	Inter	None	-13637.56	2649029.74	1515.94	23° 56' 36.35415" S
WGS84	29	CMA325/1	ESKOM	CMA	MN Maleka	CMA325/2	Ex Pole	Inter	None	-13748.14	2649031.52	1510.45	23° 56' 36.40839" S

	Survey
LONGITUDE	Date
29° 08' 2.21363" E	06/06/2006
29° 08' 1.69867" E	06/06/2006
29° 08' 1.29379" E	06/06/2006
29° 08' 2.28897" E	06/06/2006
29° 08' 6.19963" E	06/06/2006



TO WHOM IT MAY CONCERN

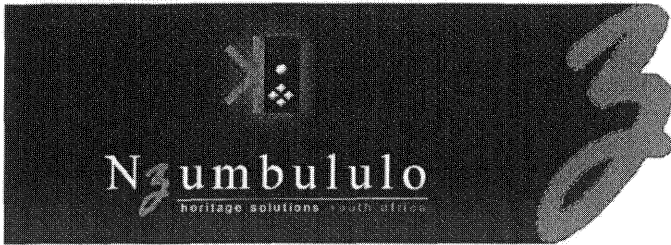
I MAGADABGELE MALESOLA MASHASHANE

as representative of the MASHASHANE

Tribal Authority, do hereby confirm that I have seen the Distribution Environmental Scoping Document on the project CMA 325/1.....and that the project can continue.

M. N. Mashashane
SIGNATURE OF AUTHORISED PERSON

DATE: 07/06/2006



CC Reg. No.: 2003/104566/23 | Tax Reg. No.: 8333/585/15/7P | VAT Reg. No.: 4580216089

<p>Polokwane Suite No. 4, Eurasia Building 91 Hans Van Rensburg Polokwane, 0700</p> <p>Postal Address Suite 345, PostNet Private Bag X9307 Polokwane, 0700</p> <p>+27(0) 15 297 8066 +27(0) 15 297 0059</p>	<p>Nelspruit 7 Riverside Gardens Nelspruit, 1200</p> <p>Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p>+27(0) 82 923 9397 +27(0) 15 297 0058</p>	<p>eThekwin 42 Burlington Drive Westville, 3630</p> <p>Postal Address P.O. Box 213 Westville, 3630</p> <p>+27(0) 83 613 6630 +27(0) 86 655 2834</p>
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hessa5@telkomza.net

DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

FEEDER: GA HLAKO 22 KV	CUSTOMER: ESKOM
PROJECT NO : GHK 279/1 RECLOSER	PROPERTY: VERSTOOTELING 670 LR
LENGTH OF LINE: NA	MAP REFERENCE: 2328 BC-S SCALE : 1: 1000
CO-ORDINATES:	T-OFF: -34062.21 (Y) 2600159.67 (X) TERMINAL: -34133.21 (Y) 2600069.66(X)

SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed work include installation of the recloser on an existing pole.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involve installation of recloser and work is not covered under the NHRA Act 25 of 1999 Sec 38.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary-

..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

GHK280
Existing Pole

VERSTOOTELING 670 LR



Existing Line

GHK279
Existing Pole

Recloser Position



GHK279/1
Existing Pole

Existing Line

GHK279/2
Existing Pole

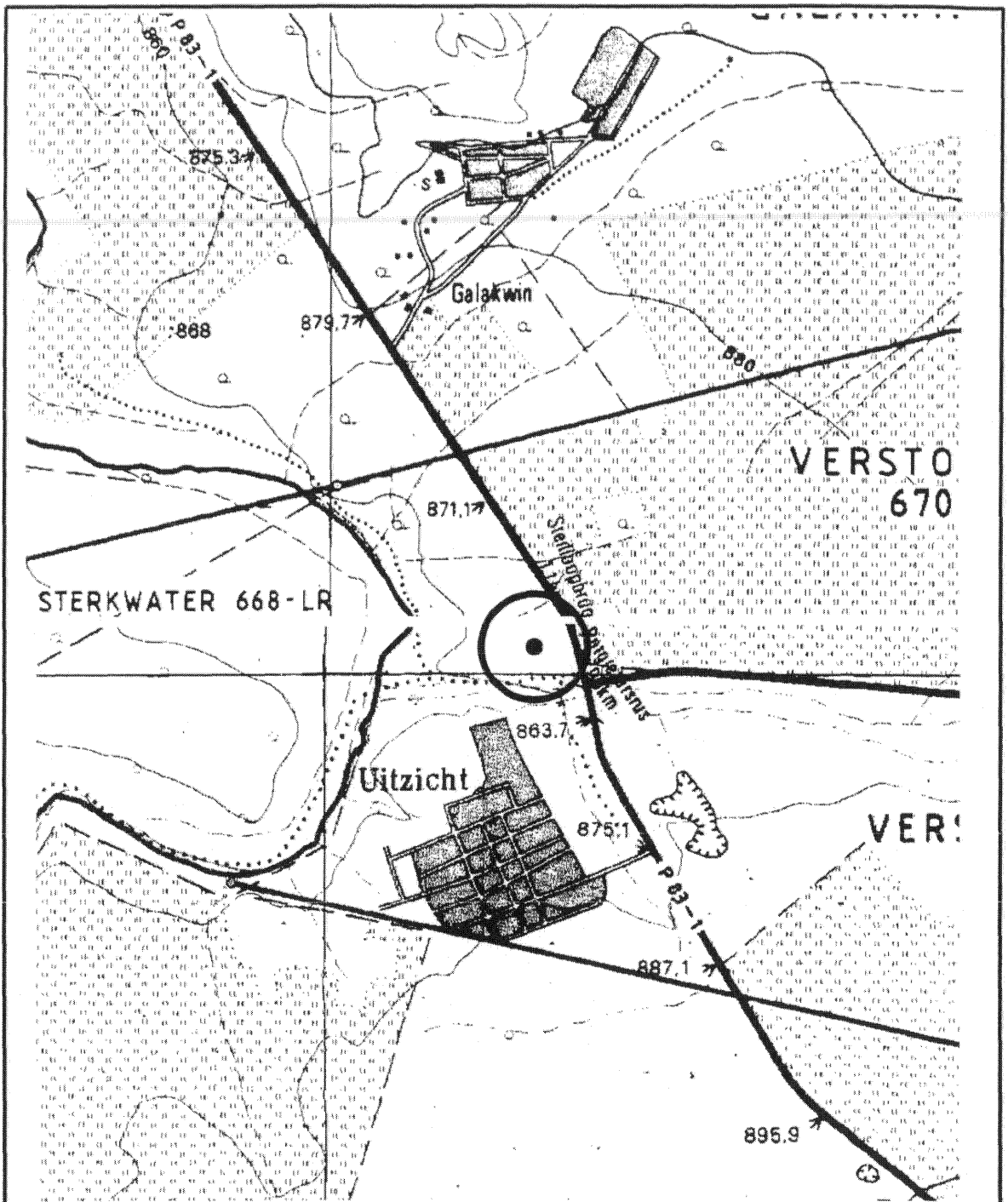
Existing Line

GHK278
Existing Pole

LJCC ENGINEERING SURVEY

P.O. BOX 12452
BENDOR 0699
TEL. 082 899 8529
FAX. (015) 297 3081

FEEDER: GA HLAKO 22 kV	CUSTOMER: ESKOM
PROJECT NO: GHK279/1 Recloser	PROPERTY: VERSTOOTELING 670 LR
CONDUCTOR: NA	
LENGTH OF LINE: NA km.	COMPILATION: 2328 BC-S/DA-N
SURVEYOR: A RANDALL	SCALE: 1 : 1000
DRAUGHTSPERSON: A RANDALL	PAGE: 1 OF 1



ROUTEPLAN



PLAN NO.	FEEDER: GA HLAKO 22 kV
	CLIENT: ESKOM
2328 BC - S	PROJECT NO: GHK279/1 Recloser
2328 DA - N	SCALE: 1 : 25 000
	AREA: GILEAD

Smigomo

TO WHOM IT MAY CONCERN

I Simon M Kgomo as representative

of the CITIZEN VILLAGE Tribal Authority, do hereby give permission of "WAYLEAVE" to ESKOM (via P M Mostert Consultants) for the connection of electricity for the following projects:

NO:	Project NO:	Description
1.	<u>611C 279/1</u>	<u>Recreation Festival</u>
2.		
3.		
4.		
5.		

Yours faithfully,

Smigomo

Date: 07 June 2006

Polokwane

Suite No. 4, Eurasia Building
91 Hans Van Rensburg
Polokwane, 0700

Postal Address
Suite 345, PostNet
Private Bag X9307
Polokwane, 0700

+27(0) 15 297 6066
+27(0) 15 297 0059

Nelspruit

7 Riverside Gardens
Nelspruit, 1200

Postal Address
Suite 44, PostNet
Private Bag X11326
Nelspruit, 1200

+27(0) 82 923 6397
+27(0) 15 297 0059

eThekweni

42 Burlington Drive
Westville, 3630

Postal Address
P.O. Box 213
Westville, 3630

+27(0) 83 613 6530
+27(0) 86 655 2634

heresa@telkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

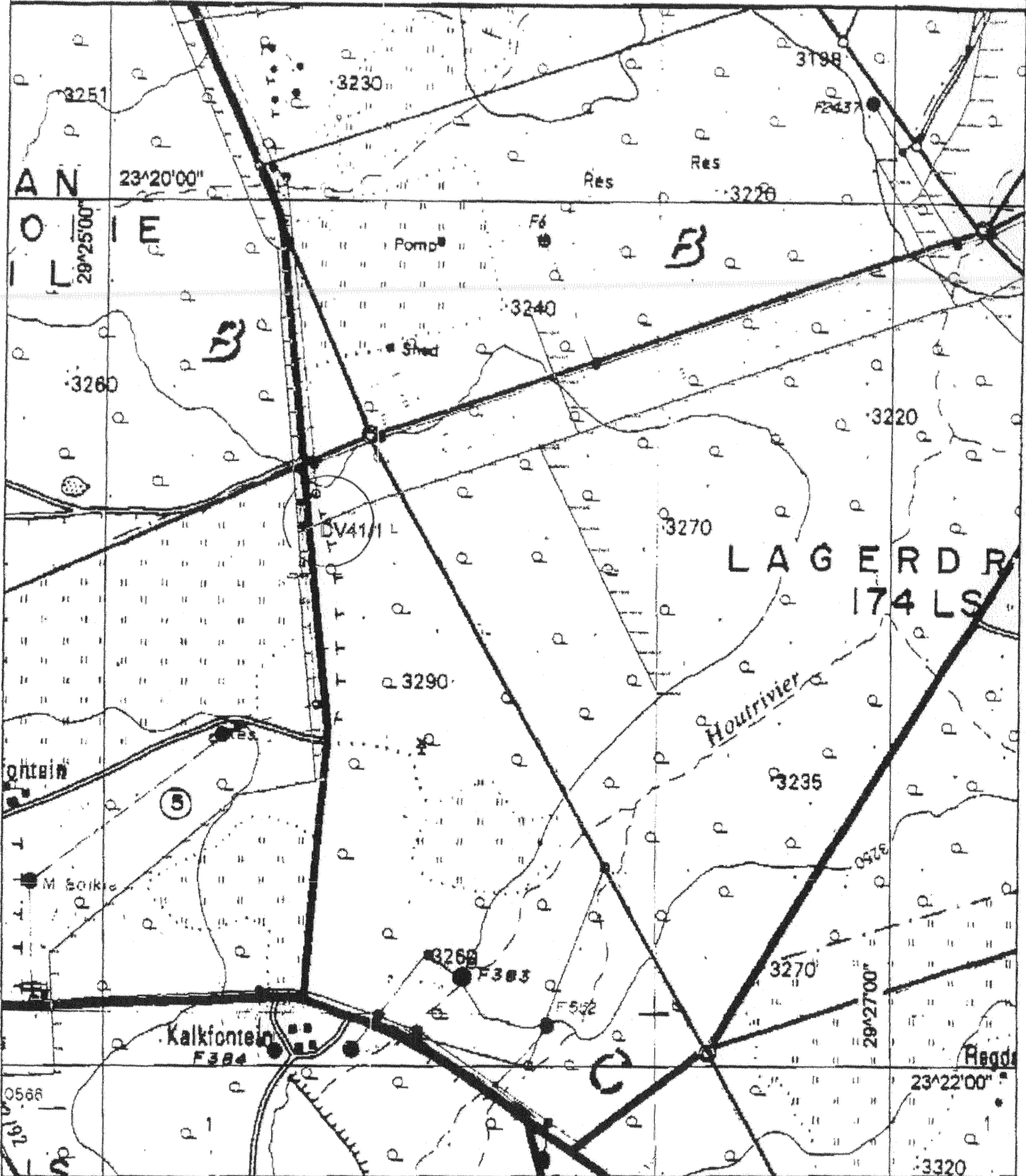
FEEDER: DENDRON 11KV	CUSTOMER: ESKOM
PROJECT NO : DV41/1-Recloser	PROPERTY: POLOKWANE
LENGTH OF LINE: NA	MAP REFERENCE: 2329 AD N SCALE : 1: 25 000
CO-ORDINATES:	T-OFF: -43454.750 (Y) 2582944.320 (X) TERMINAL: -43545.780 (Y) 2582901.510 (X)

SENSITIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed work include installation of the recloser on an existing pole.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	No monuments are listed in the area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involve installation of recloser and work is not covered under the NHRA Act 25 of 1999 Sec 38.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary-

Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

DASHED RED LINE INDICATES POWERLINE ROUTE

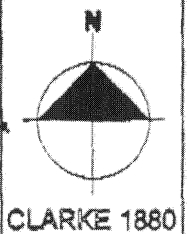


**Route plan
Northern Region**

Disclaimer
Geographic Mapping Publications
are not responsible for any errors
in external datasets displayed on this map.
The following external datasets were used:
Cadastral
Topographical

Feeder: DEDRON 11KV
Customer: ESKOM DISTRIBUTION
Project No: RECLOSERS 2006 DV41/1
FSA / TSA Area: POLOKWANE / POLOKWANE

2329 AD N
Portion of map no:
Scale: 1:25 000



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SPAN PLAN



Giraffes to be introduced in future. Build a ~~proj~~ protection fence around the recloser as it is already built to save guard the presence of Giraffes in future.

DATUM SYSTEM	LO	PROJECT NO	CUSTOMER	FdrCode	SURVEYOR	Pole No	Description	Structure Type	Equipment
WGS84	29	RECLOSERS 2006 DV41/1	ESKOM	DV	M C BOTHA	DV41	Existing pole	T - Off	None
WGS84	29	RECLOSERS 2006 DV41/1	ESKOM	DV	M C BOTHA	DV41/1	Existing pole	In - Line	Recloser

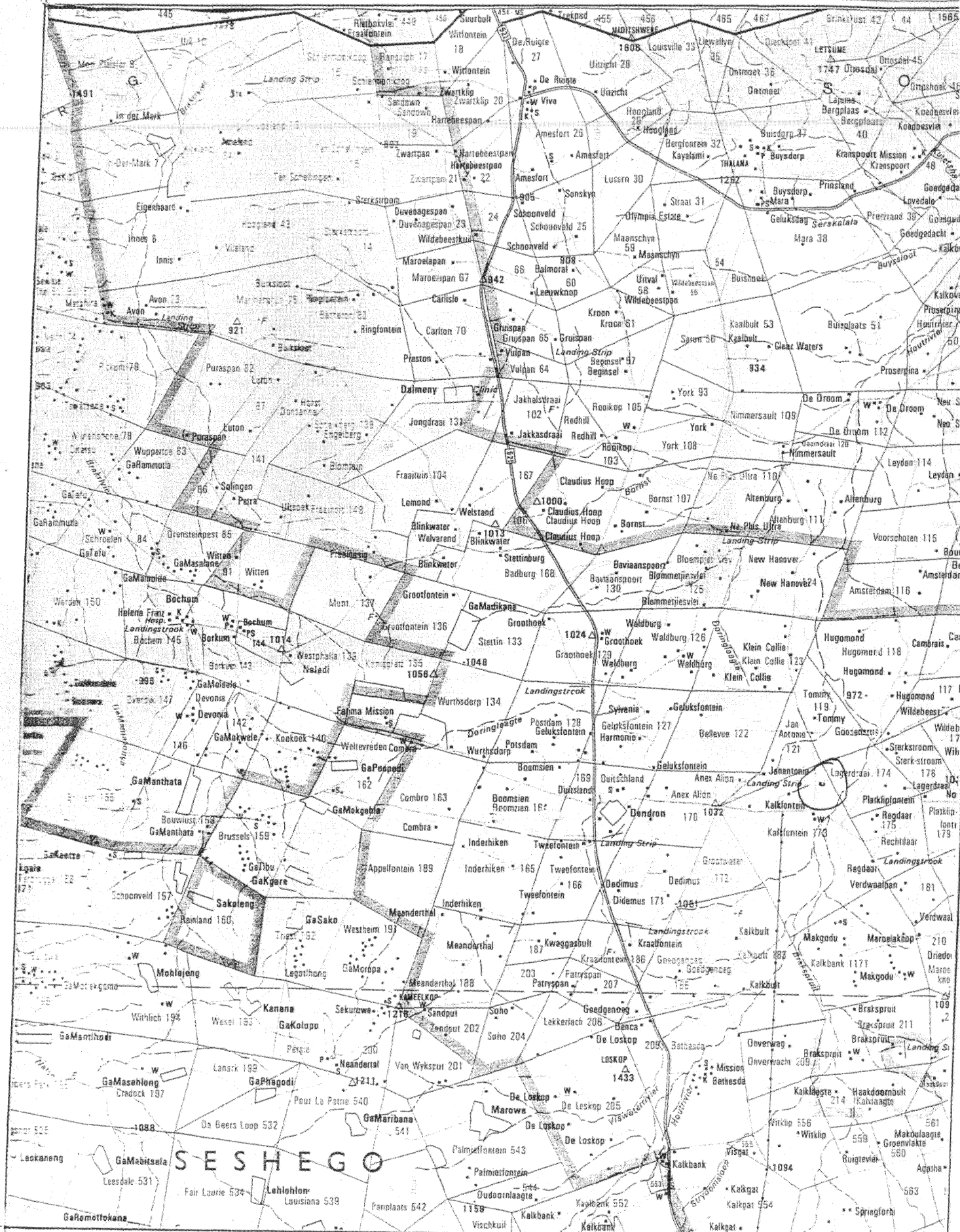
Y	X	Z	Survey Date	LAT	LONG
-43454.750	2582944.320	992.000	2/6/2006	23 20 46.4	29 25 29.8
-43545.780	2582901.510	991.000	2/6/2006	23 20 45.0	29 25 33.0

LOCALITY

PROJECT NO : DV 4111

PORTION OF MAP NO : 2230

SCALE : 1 : 250 000





CC Reg. No.: 2003/104596/23 | Tax Reg. No.: 8333/665/15/7P | VAT Reg. No.: 459021509S

<p>Polokwane <small>2000</small> Suite No. 4, Eurasia Building 91 Hans Van Rensburg Polokwane, 0700</p> <p>Postal Address: Suite 345, PostNet Private Bag X6307 Polokwane, 0700</p> <p>+27(0) 15 297 8066 +27(0) 15 297 0059</p>	<p>Nelspruit <small>1200</small> 7 Riverside Gardens Nelspruit, 1200</p> <p>Postal Address: Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p>+27(0) 82 923 9397 +27(0) 15 297 0059</p>	<p>eThekweni <small>3830</small> 42 Burlington Drive Westville, 3830</p> <p>Postal Address: P.O. Box 213 Westville, 3830</p> <p>+27(0) 83 613 6530 +27(0) 86 655 2634</p>
---	---	--

hessa5@telkomiaa.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

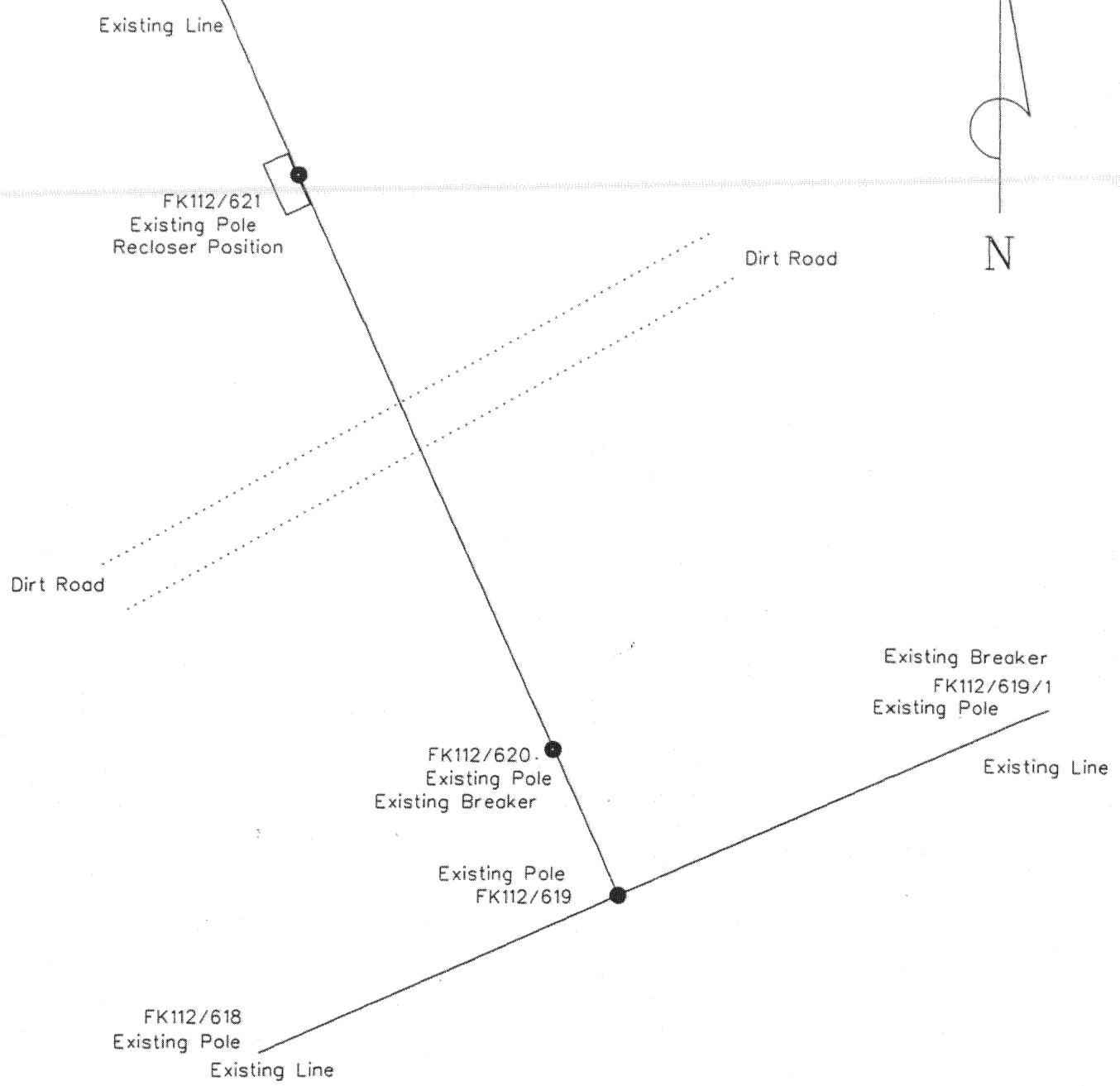
FEEDER: KRUGERPARK 22KV	CUSTOMER: ESKOM
PROJECT NO: FK 112/621 RECLOSER	PROPERTY: KRUGER NATIONAL PARK
LENGTH OF LINE: NA	MAP REFERENCE: 2331 CB-N SCALE : 1: 1 000
CO-ORDINATES:	T-OFF: -233334.67 (Y) 2610669.38 (X) TERMINAL: -233476.79 (Y) 2610740.41 (X)

SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed work involves installation of the recloser on an existing pole.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involve installation of recloser on existing pole
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary-

Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

KRUGER NATIONAL PARK UNREGISTERED STATELAND

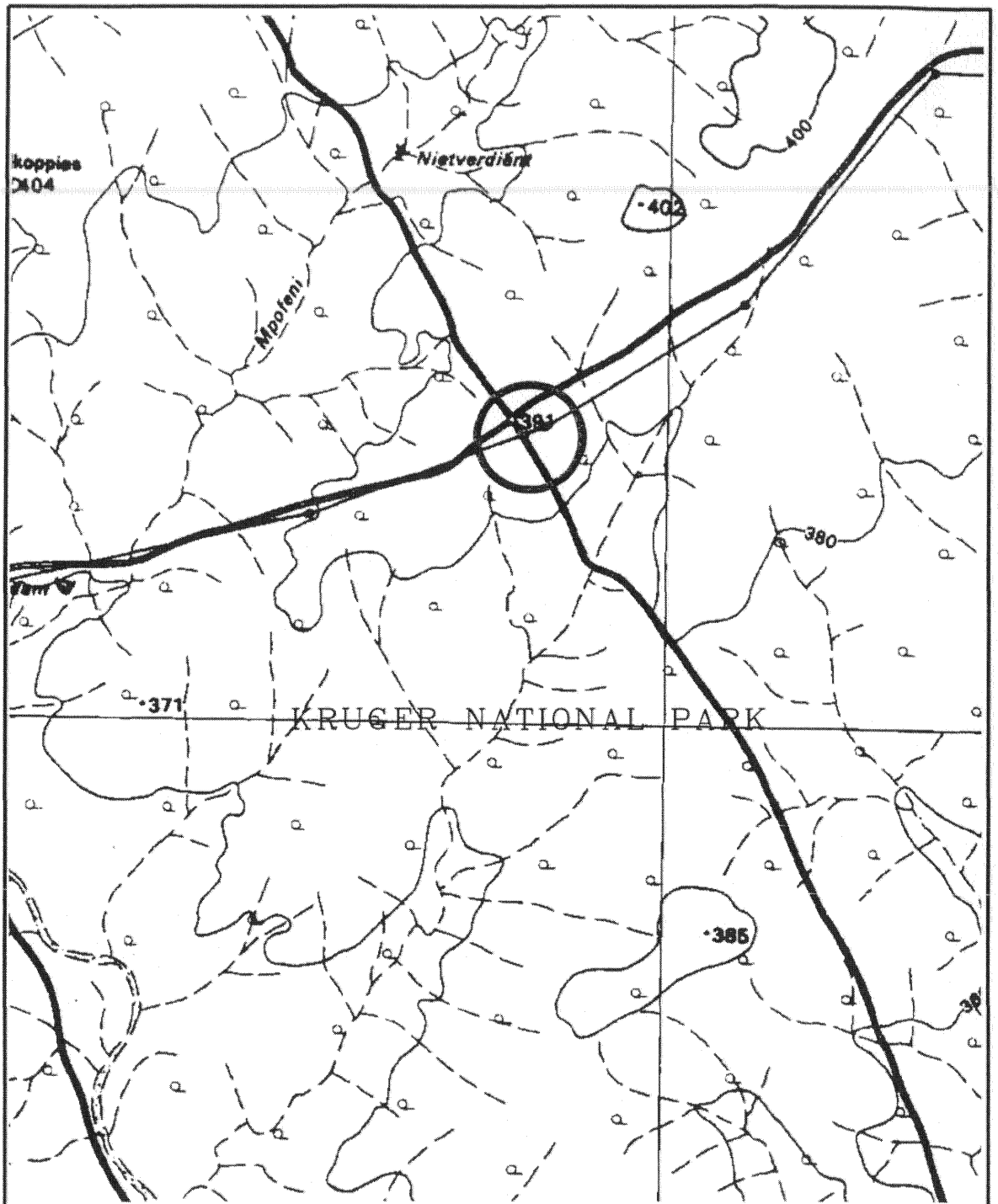


No Bushclearing Required

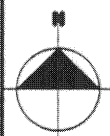
LJCC ENGINEERING SURVEY

P.O. BOX 12452
BENDOR 0699
TEL. 082 899 8529
FAX. (015) 297 3081

FEEDER: KRUGERPARK 22 kV	CUSTOMER: Eskom
PROJECT NO: FK112/621 Recloser	PROPERTY: KRUGER NATIONAL PARK
CONDUCTOR: NA	
LENGTH OF LINE: NA km.	COMPILATION: 2331 CB - N
SURVEYOR: A RANDALL	SCALE: 1:1000
DRAUGHTSPERSON: A RANDALL	PAGE: 1 OF 1



ROUTEPLAN



	PLAN NO.	FEEDER: KRUGERPARK 22 kV
	2331	CLIENT: ESKOM
	CB - N	PROJECT NO: FK112/621
		SCALE: 1:25 000
		AREA: SELATI

Annexure D2:SPREADSHEET FORMAT EXAMPLE

Datum / System	LO	ProjectNo	Customer	Feeder Code	Surveyor	Pole No	Description	Structure Type	Equipment	Y	X	Z	Survey Date
WGS84	29	FK112/621	ESKOM	FK	A Randall	FK112/621	Ex Pole	Intermediate	Recloser	-233334.67	2610669.38		2006/05/29
WGS84	29	FK112/621	ESKOM	FK	A Randall	FK112/619	Ex Pole	T Off	None	-233384.15	2610781.15		2006/05/29
WGS84	29	FK112/621	ESKOM	FK	A Randall	FK112/620	Ex Pole	Intermediate	Breaker	-233371.44	2610759.96		2006/05/29
WGS84	29	FK112/621	ESKOM	FK	A Randall	FK112/619/1	Ex Pole	Intermediate	Breaker	-233476.79	2610740.41		2006/05/29

DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

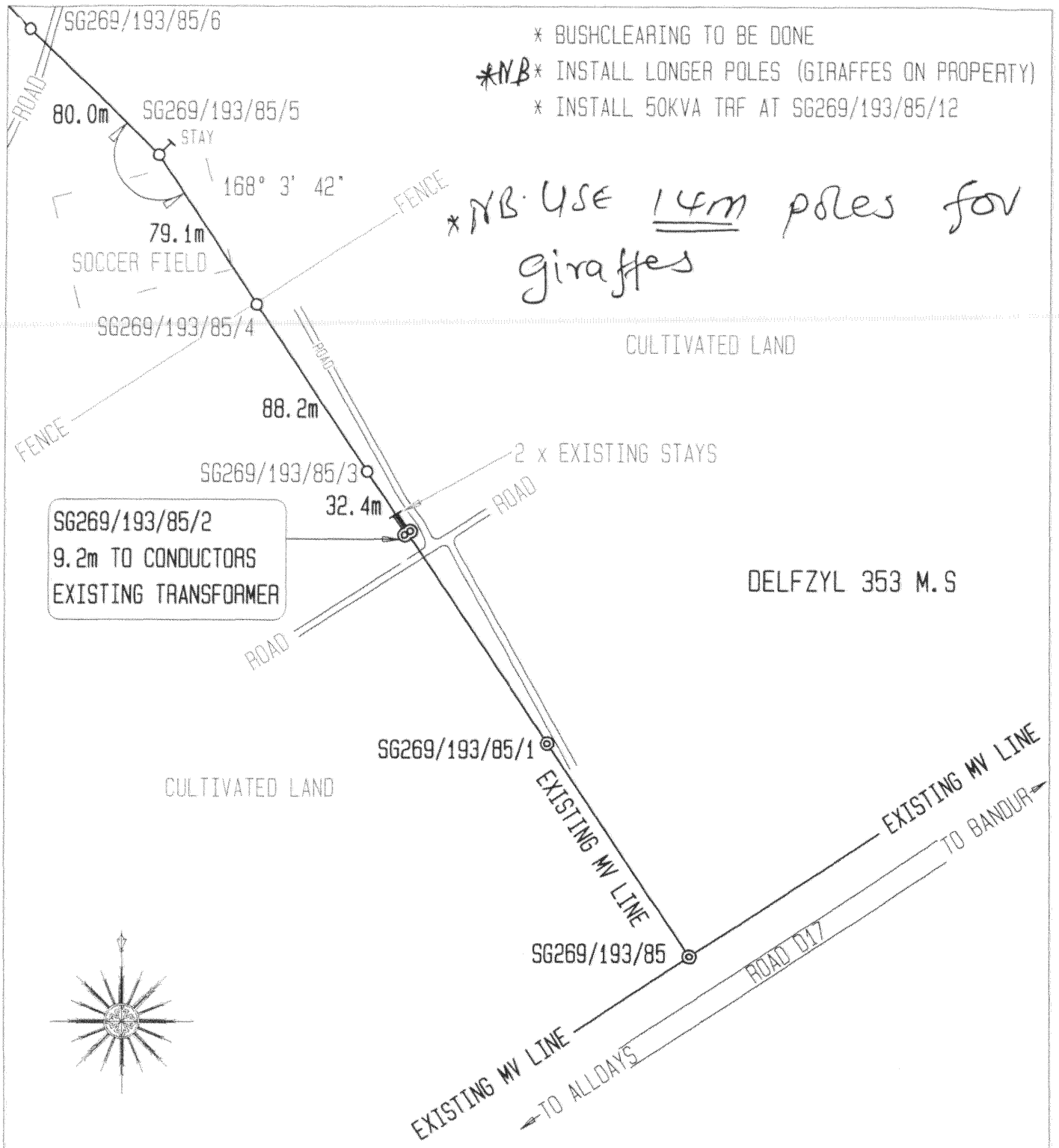
PROJECT DETAILS:

FEEDER: GEMSBOK 22KV	CUSTOMER: STONY RIVER PROPERTIES 109BK C
PROJECT NO : 06DA105564	PROPERTY: DELFZYL 353 M.S
LENGTH OF LINE: 0.760 km	MAP REFERENCE: 2229 CB (S) SCALE : 1: 2500
CO-ORDINATES:	T-OFF: -22829.987 (Y) 2581803.204 (X)1058.382(Z) TERMINAL: -22435.379 (Y) 2582563.976 (X) 1058.080 (Z)

SENSITIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed power line would be 760m traversing through cultivated land from existing power line to new camp site.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since power line would go through cultivated and previously disturbed land.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary

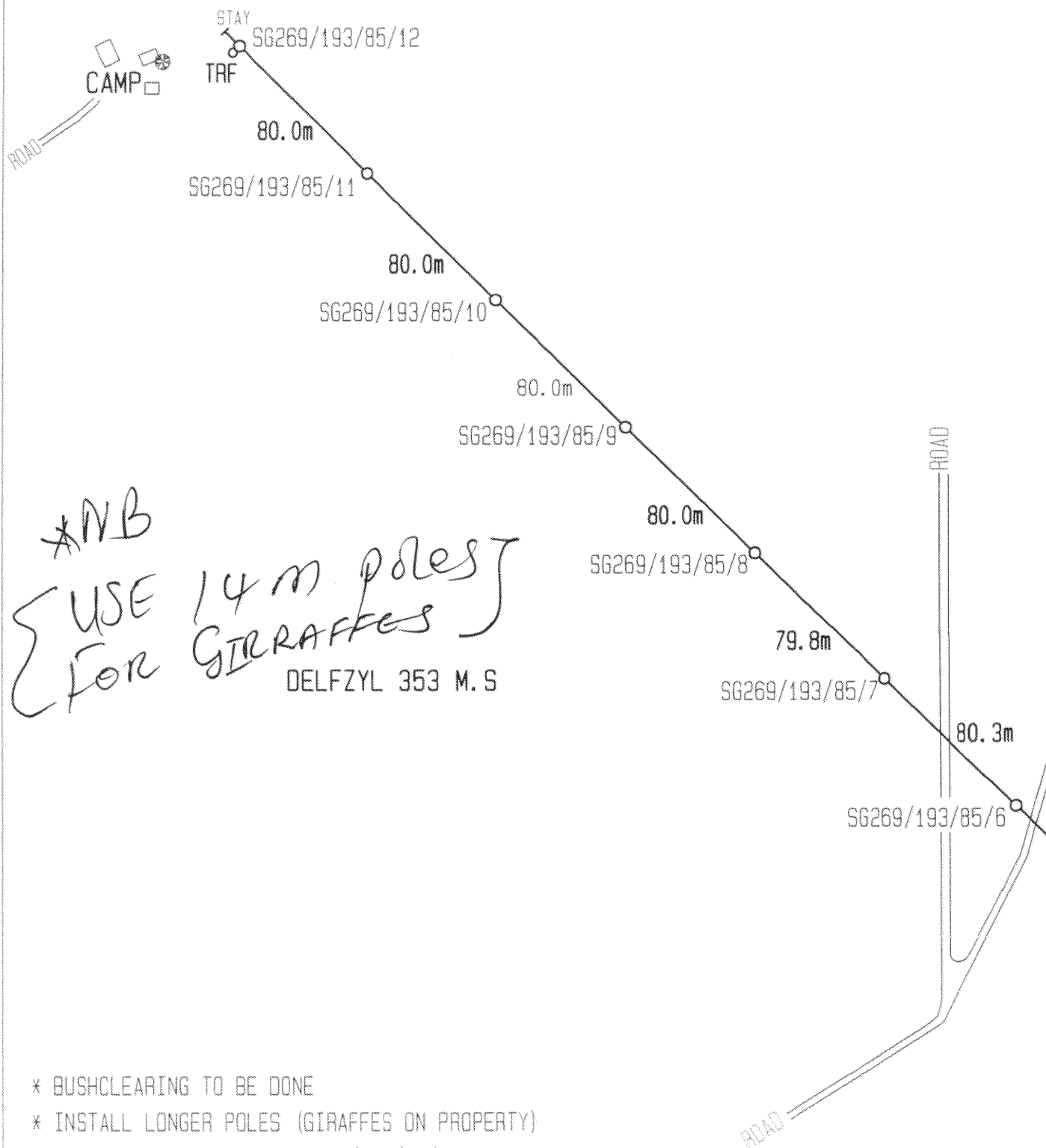
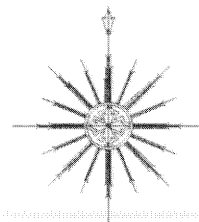
Principal Investigator/Chief Archaeologist
McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).



DISTRIBUTION
 NORTHERN ENGINEERING DIVISION
 NORTHERN AREA
 LAND SURVEY

P.O. BOX 3499
 PIETERSBURG 0700
 TEL. (015) 299 0000
 FAX. (015) 295 7550

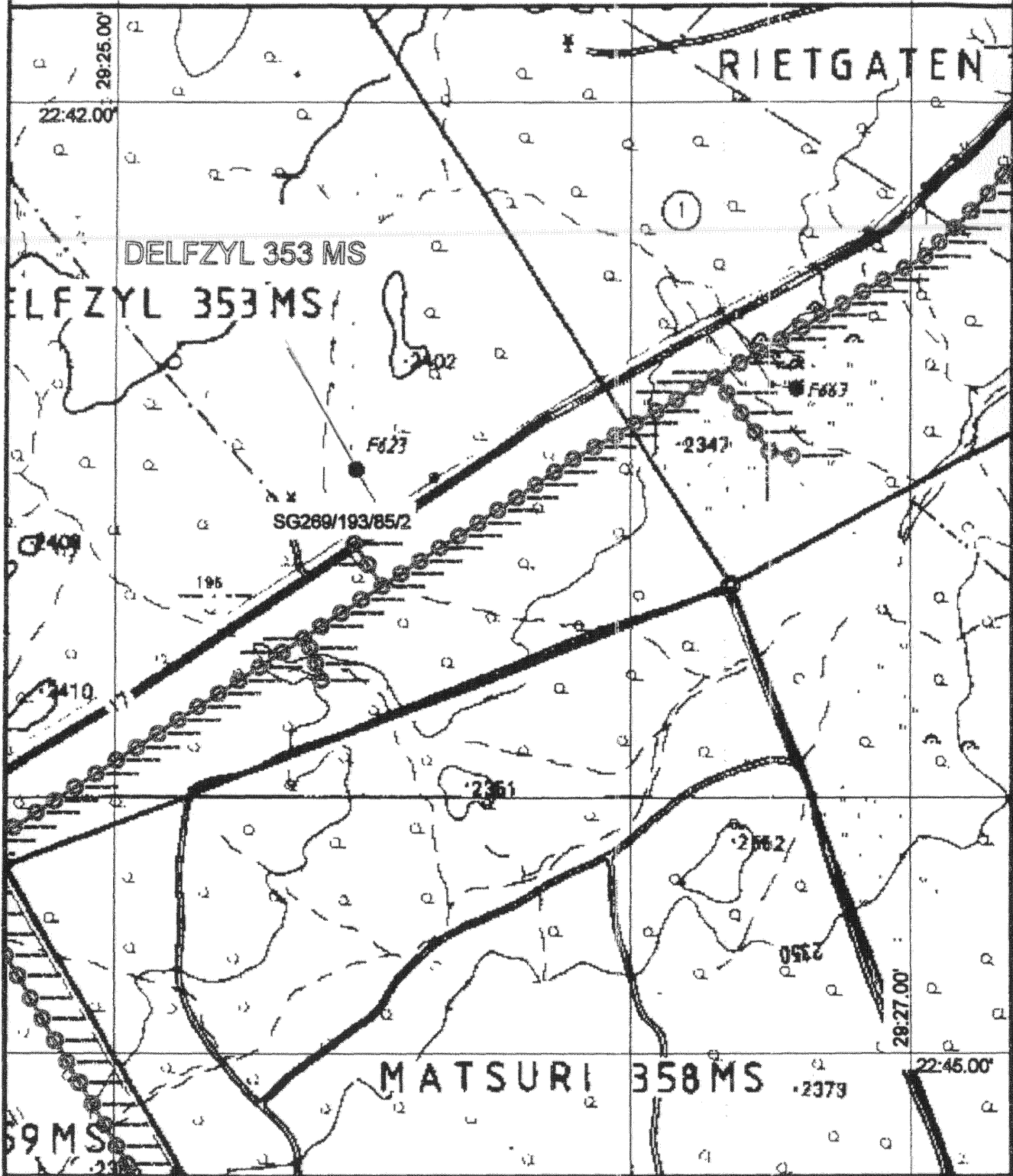
FEEDER:	GEMSBOK 22KV	CUSTOMER:	STONY RIVER PROPERTIES 109BK C
PROJECT NO:	06DA105564	PROPERTY:	DELZYL 353 M.S
CONDUCTOR:		DATE:	18-09-2006
LENGTH OF LINE:	0.760 Km.	COMPILATION:	2229CB (S)
SURVEYOR:	M C BOTHA	SCALE:	1:2500
DRAUGHTSPERSON:	E STEENKAMP	PAGE:	1 OF 2



**NB
USE 14m poles
FOR GIRAFFES
DELFZYL 353 M.S*

- * BUSHCLEARING TO BE DONE
- * INSTALL LONGER POLES (GIRAFFES ON PROPERTY)
- * INSTALL 50KVA TRF AT SG269/193/85/12

DASHED RED LINE INDICATES POWERLINE ROUTE

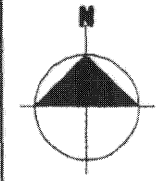


Route plan
Northern Region

Disclaimer:
Geographic Mapping / Publishers
are not responsible for any errors
in content or omissions of content on this map.
The following external datasets were used:
Contours
Topography

Feeder: GEMSBOK 22kV
Customer: STONEY RIVER PROPERTIES 109BK cc
Project No: 06DA105684

2229 CB S
Portion of map no:
Scale: 1:25 000



CLARKE 1880

CSA / TSA Area: TLOU/VANRYN (MEEBIA)

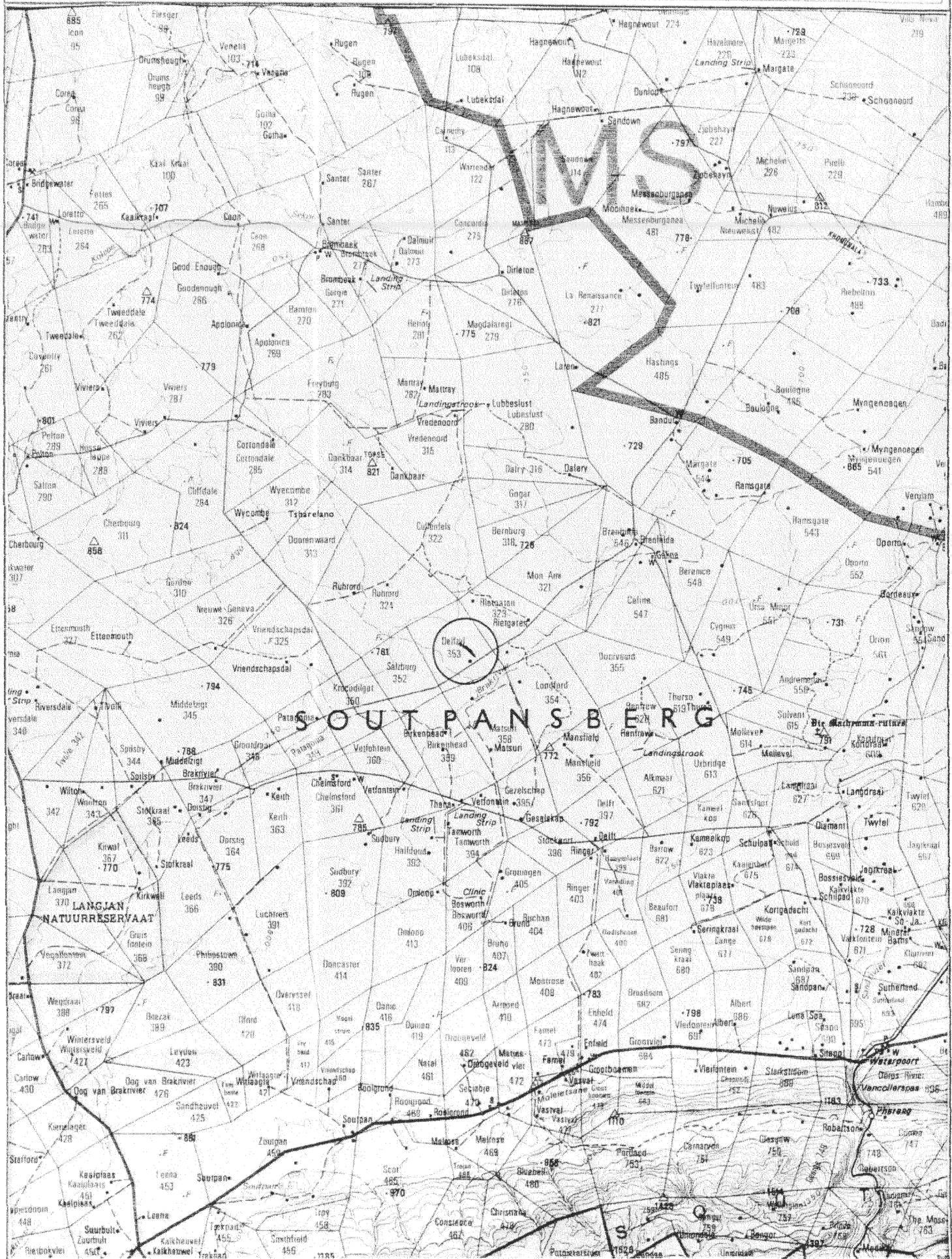
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DATUM SYSTEM	LO	PROJECT NO	CUSTOMER	FdrCode	SURVEYOR	Pole No	Description	Structure Type	Equipment
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85	Existing pole	T - Off	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/1	Existing pole	In - Line	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/2	Existing pole	In - Line	Transformer
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/3	New pole	In - Line	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/4	New pole	In - Line	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/5	New pole	Bend	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/6	New pole	In - Line	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/7	New pole	In - Line	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/8	New pole	In - Line	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/9	New pole	In - Line	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/10	New pole	In - Line	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/11	New pole	In - Line	None
WGS84	29	06DA105564	STONE RIVER PROPERTIES 109BK C	SG	M C BOTH A	SG269/193/85/12	New pole	Terminal	Transformer

Y	X	Z	Survey Date	LAT	LONG
-43910.458	2514086.665	728.947	18-09-2006	22 43 28.0459	29 25 38.7663
-43847.515	2513992.128	730.147	18-09-2006	22 43 24.9786	29 25 36.5511
-43785.672	2513899.152	730.527	18-09-2006	22 43 21.9620	29 25 34.3746
-43767.721	2513872.148	730.323	18-09-2006	22 43 21.0858	29 25 33.7428
-43718.821	2513798.734	730.504	18-09-2006	22 43 18.7039	29 25 32.0219
-43675.049	2513732.905	730.762	18-09-2006	22 43 16.5680	29 25 30.4814
-43617.946	2513676.907	730.858	18-09-2006	22 43 14.7529	29 25 28.4748
-43560.633	2513620.723	731.587	18-09-2006	22 43 12.9319	29 25 26.4609
-43503.699	2513564.873	732.418	18-09-2006	22 43 11.1216	29 25 24.4602
-43446.577	2513508.866	733.313	18-09-2006	22 43 09.3062	29 25 22.4530
-43389.461	2513452.851	734.408	18-09-2006	22 43 07.4906	29 25 20.4460
-43332.330	2513396.795	735.483	18-09-2006	22 43 05.6736	29 25 18.4385
-43275.217	2513340.817	736.554	18-09-2006	22 43 03.8592	29 25 16.4316

LOCALITY

PROJECT NO : 36DA 105 564
PORTION OF MAP NO : 22 28
SCALE : 1:250 000



DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

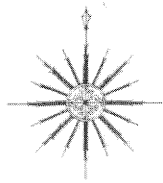
PROJECT DETAILS:

FEEDER: BOCHUM SOUTH 22KV	CUSTOMER: CAPRICIN DISTRICT MUNIC
PROJECT NO : 06DDN108384	PROPERTY: WELTEVREDEN 162 L.S
LENGTH OF LINE: 0.846 km	MAP REFERENCE: 2329 AC (N) SCALE : 1: 2500
CO-ORDINATES:	T-OFF: -22829.987 (Y) 2581803.204 (X)1058.382(Z) TERMINAL: -22435.379 (Y) 2582563.976 (X) 1058.080 (Z)

SENSETIVE AREAS

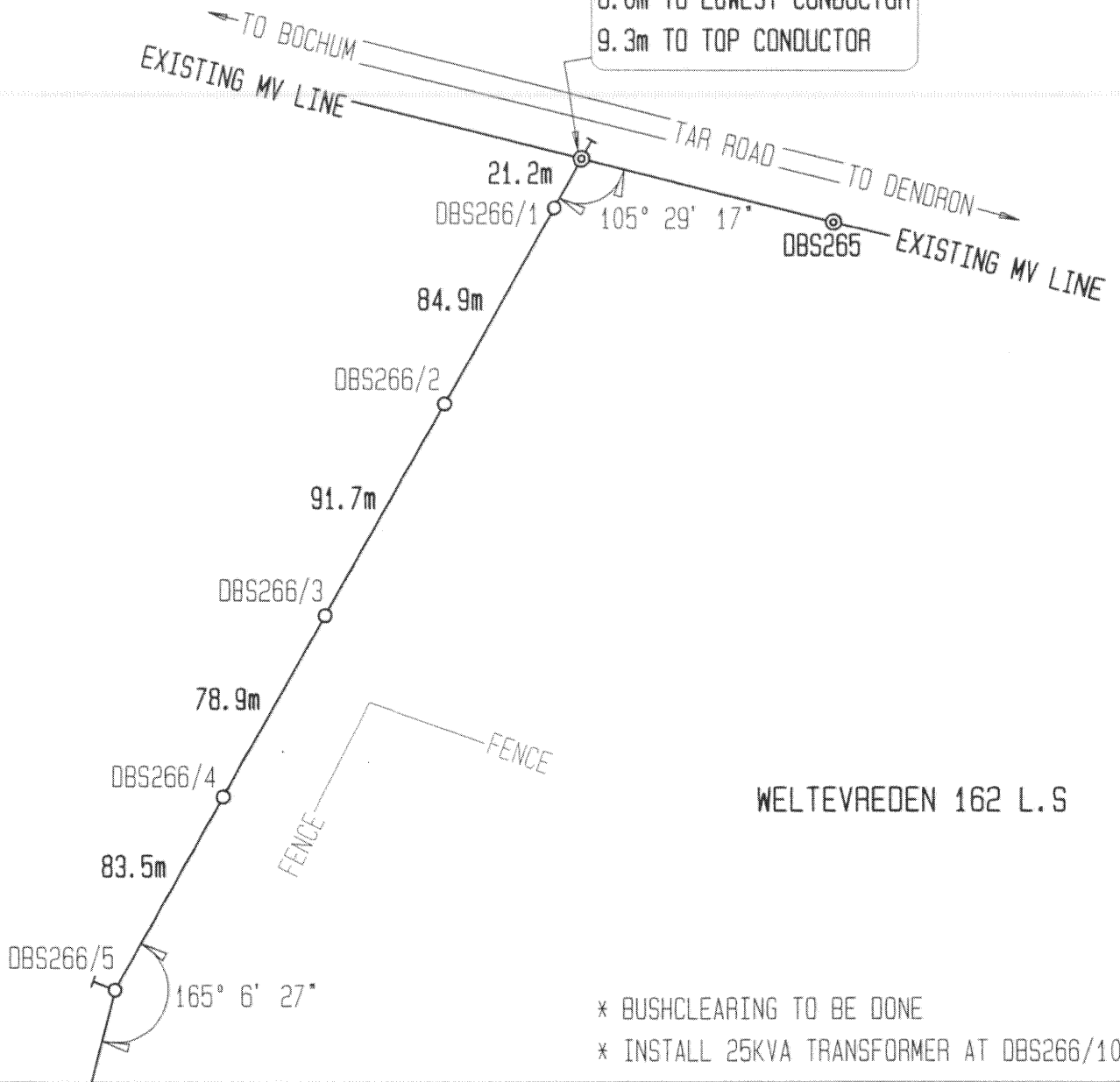
DESCRIPTION OF POWER LINE ROUTE	The proposed distribution powerlines traverses along the tar road from Bochum to Dendron. Affect area is disturbed by previous road works.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	NATIONAL /PROVINCIAL: No Monuments are listed in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected, area already developed
LANDMARKS	None identified
SIGNIFICANCE:	None
POTENTIAL IMPACTS	No impact anticipated since affected area is already built up and previously disturbed for archaeological materials to be in situ.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary, no archaeological materials are likely to be disturbed by pole installations.

Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).



WURTHSDORP 134 L.S

DBS266
8.0m TO LOWEST CONDUCTOR
9.3m TO TOP CONDUCTOR

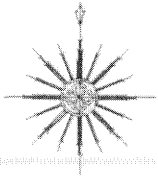


- * BUSHCLEARING TO BE DONE
- * INSTALL 25KVA TRANSFORMER AT DBS266/10

97.0m DISTRIBUTION
NORTHERN ENGINEERING DIVISION
NORTHERN AREA
LAND SURVEY

P.O. BOX 3499
PIETERSBURG 0700
TEL. (015) 299 0000
FAX. (015) 295 7550

FEEDER:	BOCHUM SOUTH 22KV	CUSTOMER:	CAPRICORN DISTRICT MINIC
PROJECT NO:	06DDN108384	PROPERTY:	WELTEVREDEN 162 L.S
CONDUCTOR:		DATE:	21-09-2006
LENGTH OF LINE:	0.846 km.	COMPILATION:	2329AC (N)
SURVEYOR:	M C BOTHA	SCALE:	1:2500
DRAUGHTSPERSON:	E STEENKAMP	PAGE:	1 OF 2



DBS266/5 $165^{\circ} 6' 27''$

97.0m

DBS266/6

97.0m

WELTEVREDEN 162 L.S

FENCE

DBS266/7

FENCE

97.6m

DBS266/8

96.3m

DBS266/9

98.0m

DBS266/10 TAF

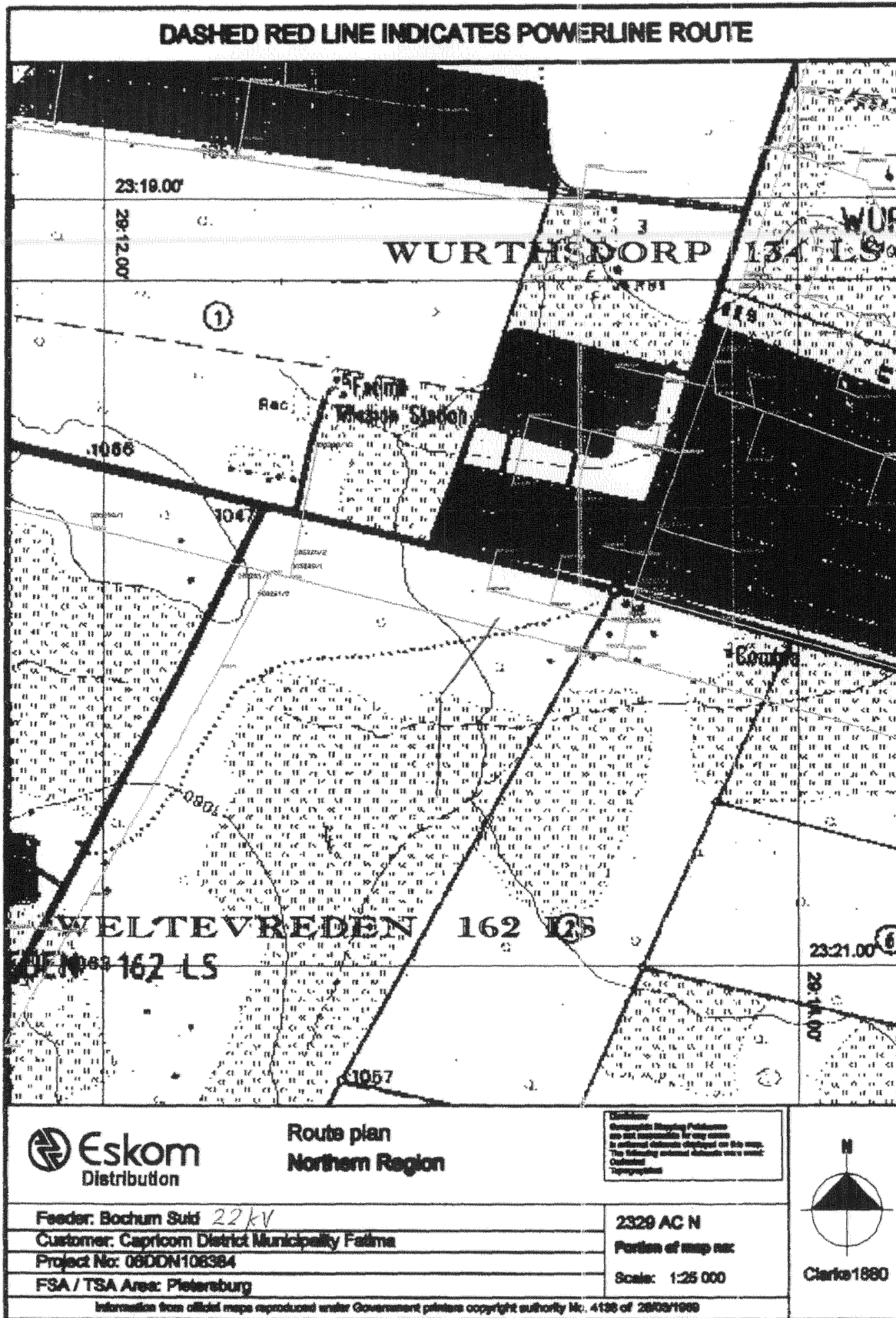
BOREHOLE
H11-13507

* BUSHCLEARING TO BE DONE

* INSTALL 25KVA TRANSFORMER AT DBS266/10

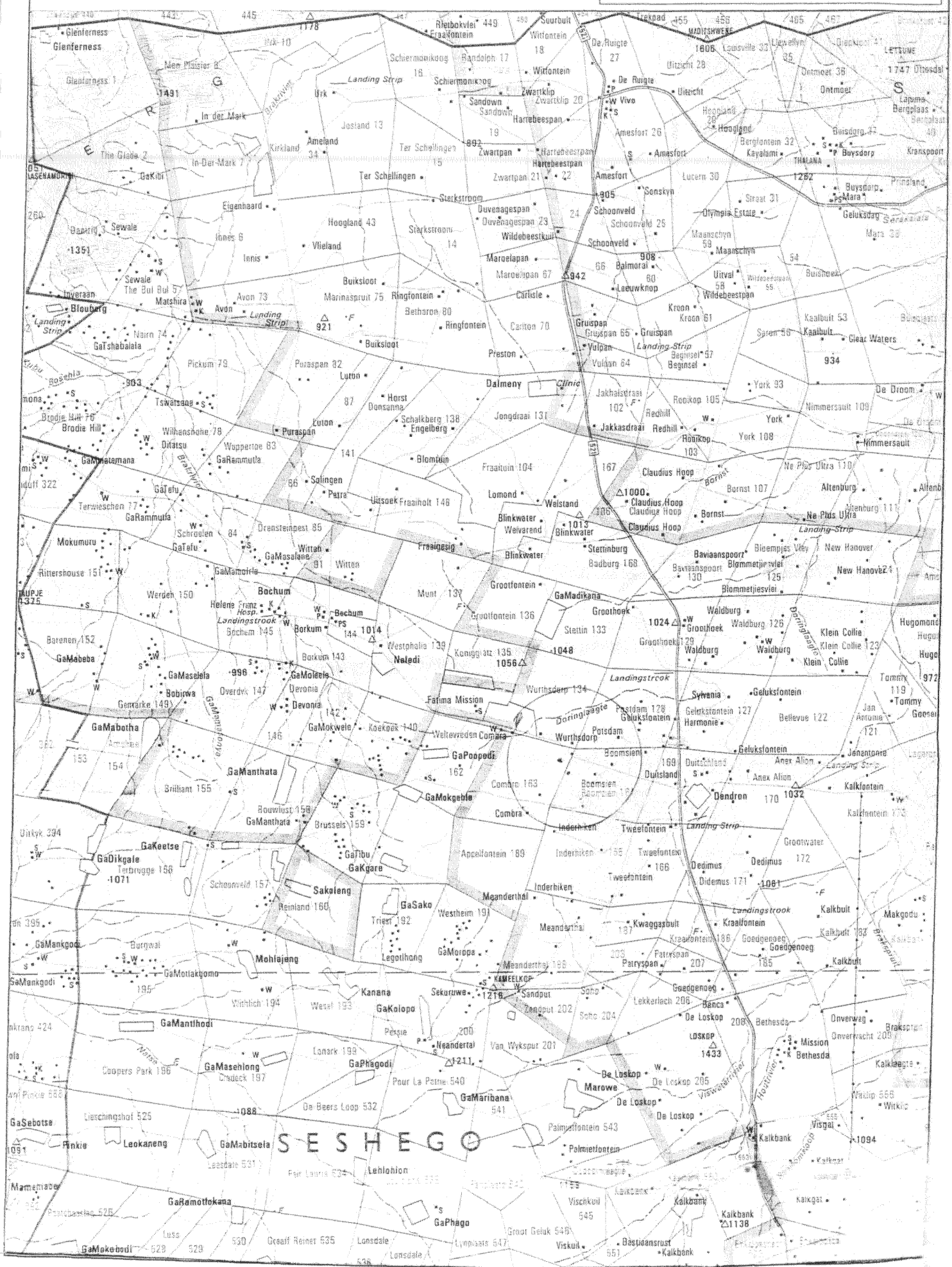
DATUM SYSTEM	LO	PROJECT NO	CUSTOMER	FdrCode	SURVEYOR	Pole No	Description	Structure Type	Equipment
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS265	Existing pole	In - Line	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266	Existing pole	T - Off	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/1	New pole	In - Line	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/2	New pole	In - Line	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/3	New pole	In - Line	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/4	New pole	In - Line	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/5	New pole	Bend	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/6	New pole	In - Line	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/7	New pole	In - Line	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/8	New pole	In - Line	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/9	New pole	In - Line	None
WGS84	29	06DDN108384	CAPRICORN DISTRICT MUNIC	DBS	M C BOTHA	DBS266/10	New pole	Terminal	Transformer

Y	X	Z	Survey Date	LAT	LONG
-22829.987	2581803.204	1058.382	21-09-2006	23 20 10.8101	29 13 23.6610
-22733.223	2581779.353	1058.724	21-09-2006	23 20 10.0397	29 13 20.2534
-22722.840	2581797.829	1058.595	21-09-2006	23 20 10.6408	29 13 19.8889
-22681.224	2581871.884	1059.044	21-09-2006	23 20 13.0501	29 13 18.4280
-22636.285	2581951.825	1059.286	21-09-2006	23 20 15.6509	29 13 16.8503
-22597.620	2582020.655	1059.262	21-09-2006	23 20 17.8902	29 13 15.4929
-22556.689	2582093.444	1058.819	21-09-2006	23 20 20.2582	29 13 14.0560
-22532.460	2582187.417	1058.269	21-09-2006	23 20 23.3141	29 13 13.2081
-22508.248	2582281.354	1057.798	21-09-2006	23 20 26.3688	29 13 12.3608
-22483.886	2582375.841	1057.525	21-09-2006	23 20 29.4414	29 13 11.5082
-22459.823	2582469.115	1057.709	21-09-2006	23 20 32.4745	29 13 10.6661
-22435.379	2582563.976	1058.080	21-09-2006	23 20 35.5592	29 13 09.8107

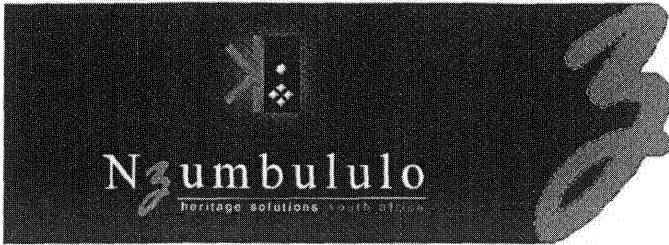


LOCALITY

PROJECT NO : 06 DDN 108384
PORTION OF MAP NO : 2328
SCALE : 1:250 000



SESHEGO



CC Reg. No.: 2003/104596/23 | Tax Reg. No.: 9333/565/15/7P | VAT Reg. No.: 4580215095

<p>Polokwane <small>Limpopo</small> Suite No. 4, Eurasia Building 91 Hans Van Rensburg Polokwane, 0700</p> <p>Postal Address Suite 345, PostNet Private Bag X9307 Polokwane, 0700</p> <p>+27(0) 15 297 8066 +27(0) 15 297 0059</p>	<p>Nelspruit <small>Mpumalanga</small> 7 Riverside Gardens Nelspruit, 1200</p> <p>Postal Address Suite 44, PostNet Private Bag X11328 Nelspruit, 1200</p> <p>+27(0) 82 923 9397 +27(0) 15 297 0059</p>	<p>eThekweni <small>KwaZulu Natal</small> 42 Burlington Drive Westville, 3630</p> <p>Postal Address P.O. Box 213 Westville, 3630</p> <p>+27(0) 83 613 6530 +27(0) 86 655 2634</p>
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hessa6@telkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

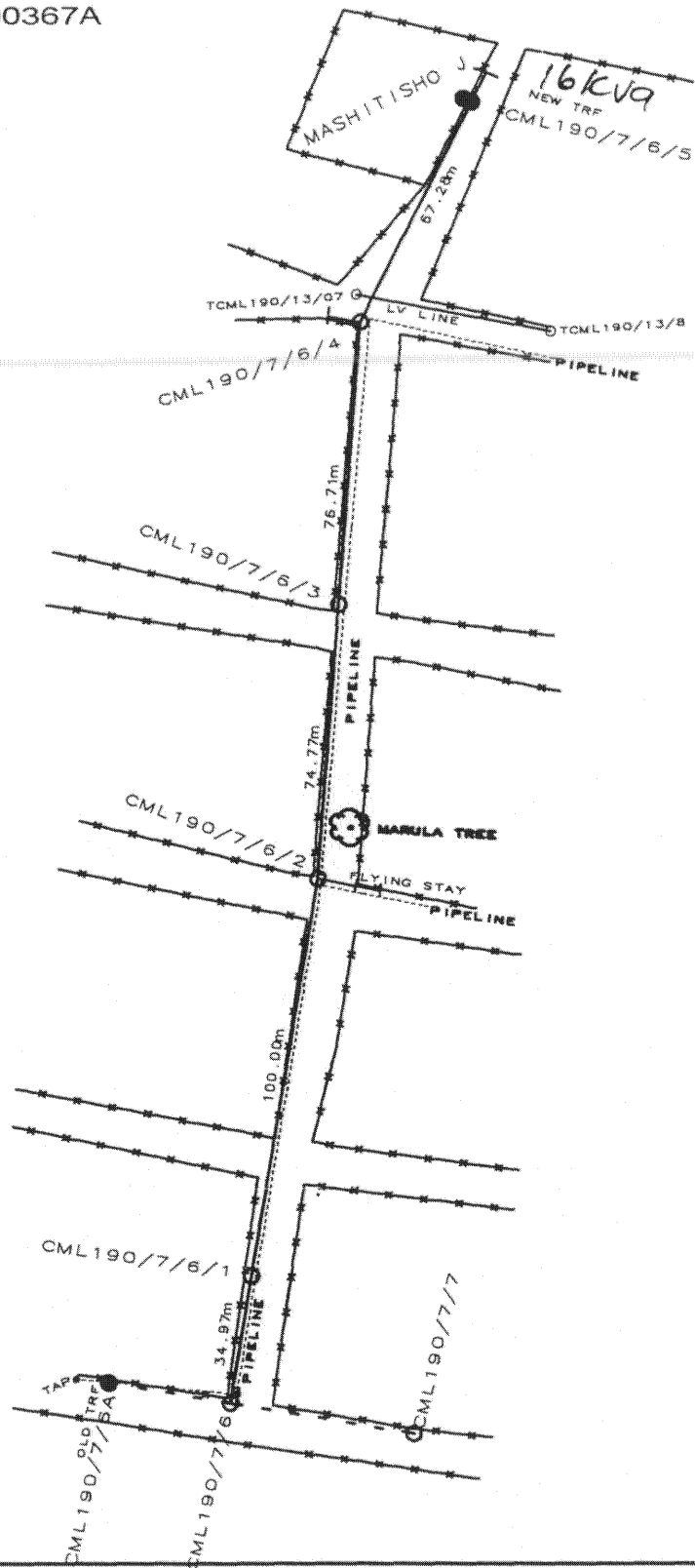
FEEDER: MATLALAS 11KV	CUSTOMER: MASHITISHO J
PROJECT NO : 06MNK100367A	PROPERTY: VULCANUS 548 LS
LENGTH OF LINE: 353.73m	MAP REFERENCE: SCALE : 1: 2000
CO-ORDINATES:	T-OFF: -10300.57 (Y) 2614711.37 (X) TERMINAL: -10341.12 (Y) 2614682.41 (X)

SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed distribution powerlines will be installed on the Vulcanus 584 LS Property.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	NATIONAL /PROVINCIAL: No Monuments are listed in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected, area already developed
LANDMARKS	None identified
SIGNIFICANCE:	None
POTENTIAL IMPACTS	No impact anticipated since affected area is already built up and previously disturbed.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary, no archaeological materials are likely to be disturbed by pole installations.

..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

PROJECT NAME : MASHITISHO J
 PROJECT No : 06MNK100367A



NORTHERN ENGINEERING DIVISION
 NORTHERN AREA
 LAND DEVELOPMENT
 DISTRIBUTION



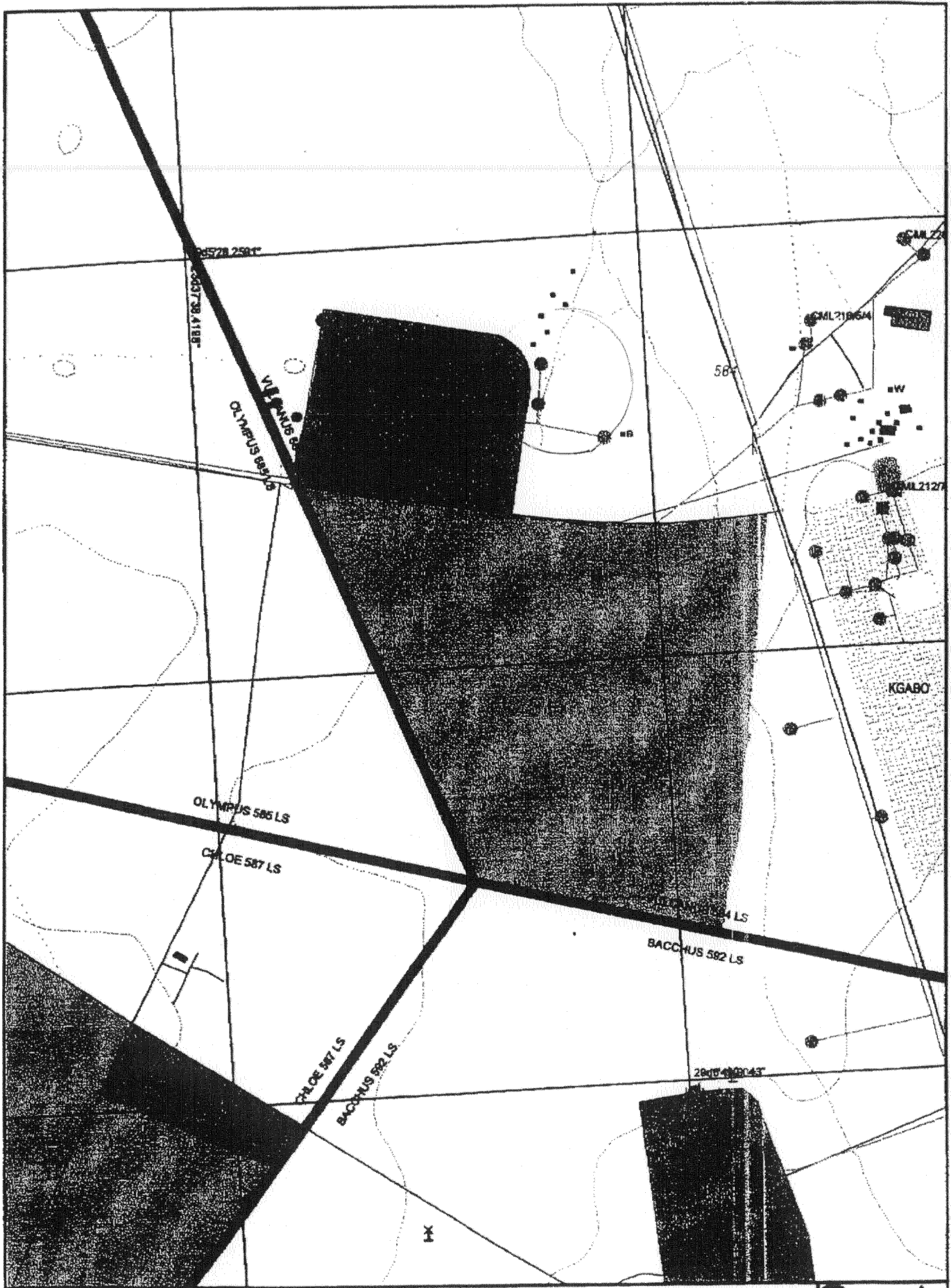
Eskom

P.O. BOX 3499
 PIETERSBURG
 TEL (015)299 0000
 FAX (015)295 7550

FEEDER : MATLALAS 11KV	CUSTOMER : MASHITISHO J
PROJECT No : 06MNK100367A	PROPERTY : VULCANUS 584 LS
CONDUCTOR :	
LENGTH OF LINE : 353.73m	DATE : 01 SEPTEMBER 06
SURVEYOR : T.N RAPOTU	SCALE : 1 : 2000
DRAUGHTSPERSON : T.N RAPOTU	PAGE: 1 OF 1

PROJECT NAME: MASHITISHO J
PROJECT No: 06MNMK100367A

Datum / System	LO	ProjectNo	Customer	Feeder Code	Surveyor	Pole No	Description	Structure Type	Equipment	Y	X	Latitude	Longitude	Survey Date
WGS84	29	06MNMK100367A	MASHITISHO J	MATLALAS 11KV	T.N Rapotu	CML190/7/6A	Transformer	Existing	Transformer	-10302.57	2614711.37	23.38.00.94	29.06.03.49	01/09/2006
WGS84	29	06MNMK100367A	MASHITISHO J	MATLALAS 11KV	T.N Rapotu	CML190/7/7	Existing	Existing	NONE	-10384.73	2614725.26	23.38.01.41	29.06.06.39	01/09/2006
WGS84	29	06MNMK100367A	MASHITISHO J	MATLALAS 11KV	T.N Rapotu	CML190/7/6	T-OFF	New pole	NONE	-10335.39	2614716.91	23.38.01.14	29.06.04.64	01/09/2006
WGS84	29	06MNMK100367A	MASHITISHO J	MATLALAS 11KV	T.N Rapotu	CML190/7/6/2	BEND	New pole	NONE	-10359.17	2614573.91	23.37.56.49	29.06.05.48	01/09/2006
WGS84	29	06MNMK100367A	MASHITISHO J	MATLALAS 11KV	T.N Rapotu	CML190/7/6/4	BEND	New pole	NONE	-10370.80	2614422.88	23.37.51.58	29.06.05.89	01/09/2006
WGS84	29	06MNMK100367A	MASHITISHO J	MATLALAS 11KV	T.N Rapotu	CML190/7/6/5	Transformer	New pole	Transformer	-10401.22	2614362.87	23.37.49.63	29.06.06.94	01/09/2006
WGS84	29	06MNMK100367A	MASHITISHO J	MATLALAS 11KV	T.N Rapotu	CML190/7/6/3	New Pole	New pole	NONE	-10364.89	2614499.36	23.37.54.01	29.06.05.64	01/09/2006
WGS84	29	06MNMK100367A	MASHITISHO J	MATLALAS 11KV	T.N Rapotu	CML190/7/6/1	New Pole	New pole	NONE	-10341.12	2614682.41	23.38.00.04	29.06.04.84	01/09/2006

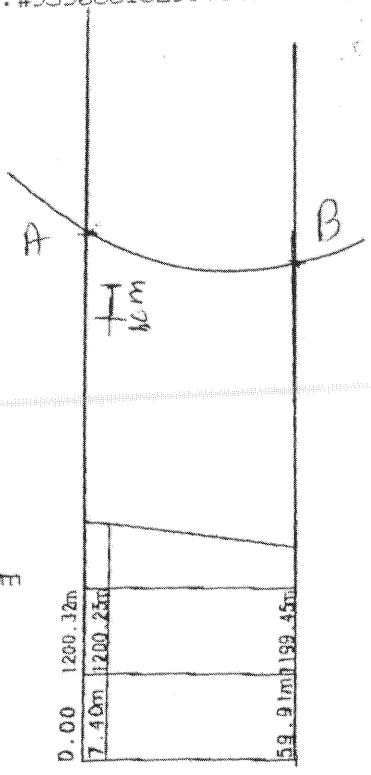


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06MNK100367A

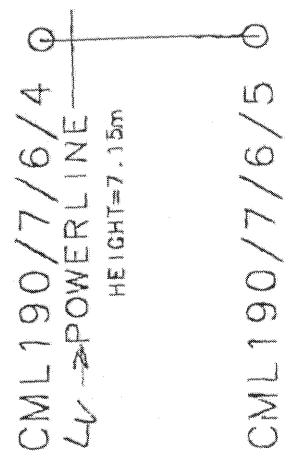


Att. Jada



DATUM=1198.00m

CLIENT : MASHITISHO J
 PROFILE FOR POWERLINE
 FEEDER : MATLALAS 11KV
 PROJECT NO.: 06MNK100367A
 SCALE HOR 1: 2500
 VERT 1: 250



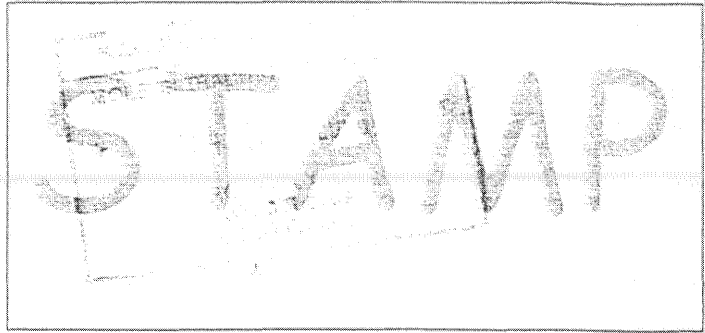
SRVEYED BY : T.N RAPOTU
 RM CURVE : 14.293

TACHMENT HEIGHT
 A - 9,400m
 B - 9,400m
 C - —
 D - —

Templated by J. Ramoana
 Date 11/09/2006
[Signature]

LATED BY :

E :



TO WHOM IT MAY CONCERN

I Meloto-----

as representative of the Meloto-----

Tribal/Traditional Authority, do hereby confirm that I have seen the

Distribution Environmental Scoping Document on the project MASHITSHO J

and that the project can continue.

SIGNATURE OF AUTHORISED PERSON

DATE: 04/09/06-----



CC Reg. No.: 2003/104586/23 | Tax Reg. No.: 9333/585/16/7P | VAT Reg. No.: 4580215085

<p>Polokwane <small>Letlamo</small> Suite No. 4, Eurasia Building 81 Hans Van Rensburg Polokwane, 0700</p> <p> Postal Address Suite 345, PostNet Private Bag X9307 Polokwane, 0700</p> <p> +27(0) 15 297 8066 +27(0) 15 297 0059</p>	<p>Nelspruit <small>Riposte</small> 7 Riverside Gardens Nelspruit, 1200</p> <p> Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p> +27(0) 82 923 9397 +27(0) 15 297 0059</p>	<p>eThekweni <small>Edendale</small> 42 Burlington Drive Westville, 3630</p> <p> Postal Address P.O. Box 213 Westville, 3630</p> <p> +27(0) 83 613 0530 +27(0) 86 655 2834</p>
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hessa5@teikomsa.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

FEEDER: JIMMY JONES 22KV	CUSTOMER: KHOSA JOSEPH
PROJECT NO : TH001396	PROPERTY: SEELIG 206 LT
LENGTH OF LINE: 734.97KM	MAP REFERENCE: 2330 BA SCALE : 1: 4 000
CO-ORDINATES:	T-OFF: -166857.63 (Y) 2551137.78 (X) TERMINAL: -166643.85 (Y) 2550543.11 (X)

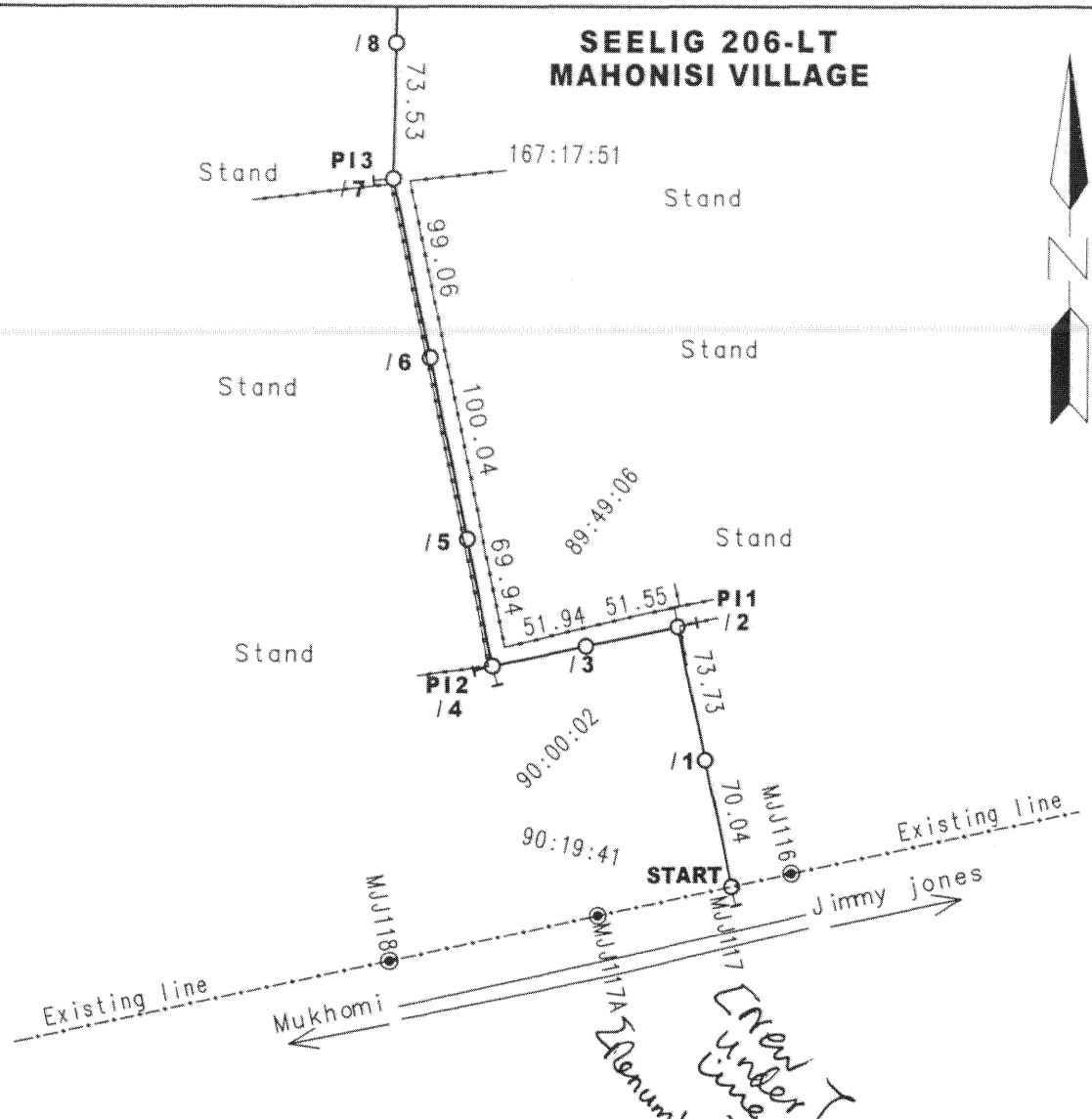
SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed distribution powerlines will cover the Mahonisi Village. Area is built up with existing residential property developments and other infrastructures.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	NATIONAL /PROVINCIAL: No Monuments are listed in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected, area already developed
LANDMARKS	None identified
SIGNIFICANCE:	None
POTENTIAL IMPACTS	No impact anticipated since affected area is already built up and previously disturbed for archaeological materials to be in situ.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary, no archaeological materials are likely to be disturbed by pole installations.

..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

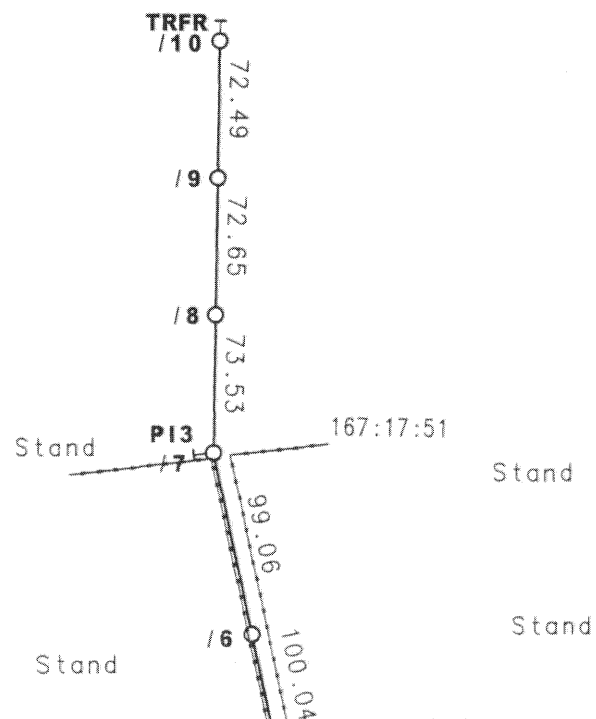
335

**SEELIG 206-LT
MAHONISI VILLAGE**



NB: Bush clearing from Start to PI1 and from PI2 to Transformer

DISTRIBUTION NORTHERN ENGINEERING DIVISION NORTHERN AREA LAND SURVEY		P.O. BOX 3499 POLOKWANE 0700 TEL. (015) 299 0000 FAX. (015) 295 7550
FEEDER: JIMMY JONES 22kV	CUSTOMER: KHOSA JOSEPH	
PROJECT No.: TH001396	PROPERTY: SEELIG 206 LT	
CONDUCTOR:	DATE: SEPTEMBER 2006	
LENGTH OF LINE: 734.97m	COMPILATION: 2330 BA	
SURVEYOR: N P MATIBE	SCALE: 1: 4 000	
DRAUGHTSPERSON: R NEVHUTANDA	PAGE: 1 OF 2	



PROJECT No: TH001396
SCALE: 1 : 4000
PAGE: 2 OF 2

Datum/	System	LO	ProjectNo	Customer	FdrCode	Surveyor	PoleNo	Description	Structure Type	Equipment	Y	X	Z	Survey Date	Lat	Long
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ116	Existing Pole	Existing line	None	-166857.63	2551137.78	2551137.78	27/09/2006	23° 03' 04"	30° 37' 41"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117	New pole	T-off	None	-166824.71	2551144.82	2551144.82	27/09/2006	23° 03' 05"	30° 37' 40"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117A	Existing Pole	Existing line	None	-166750.91	2551160.73	2551160.73	27/09/2006	23° 03' 05"	30° 37' 37"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ118	Existing Pole	Existing line	None	-166638.31	2551185.39	2551185.39	27/09/2006	23° 03' 06"	30° 37' 33"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/1	New pole	New line	None	-166810.38	2551076.26	2551076.26	27/09/2006	23° 03' 02"	30° 37' 39"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/2	New pole	Bend	None	-166795.30	2551004.09	2551004.09	27/09/2006	23° 03' 00"	30° 37' 38"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/3	Existing Pole	Bend	None	-166744.84	2551014.63	2551014.63	27/09/2006	23° 03' 00"	30° 37' 37"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/4	Existing Pole	New line	None	-166693.99	2551025.25	2551025.25	27/09/2006	23° 03' 01"	30° 37' 35"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/5	Existing Pole	New line	None	-166679.90	2550956.74	2550956.74	27/09/2006	23° 02' 59"	30° 37' 34"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/6	New pole	Bend	None	-166659.73	2550858.76	2550858.76	27/09/2006	23° 02' 55"	30° 37' 34"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/7	New pole	New line	None	-166639.76	2550761.74	2550761.74	27/09/2006	23° 02' 52"	30° 37' 33"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/8	New pole	New line	None	-166641.13	2550688.22	2550688.22	27/09/2006	23° 02' 50"	30° 37' 33"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/9	New pole	Terminal	Transformer	-166642.48	2550615.59	2550615.59	27/09/2006	23° 02' 48"	30° 37' 33"
	WGS84	29	TH001396	Khosa Joseph	MJJ	MATIBE	MJJ117/10	New pole	Terminal	Transformer	-166643.85	2550543.11	2550543.11	27/09/2006	23° 02' 45"	30° 37' 33"



CC Reg. No.: 2003/104599/23 | Tax Reg. No.: 9533/565/16/TP | VAT Reg. No.: 4580215095

<p>Polokwane <small>Linopole</small></p> <p>Suite No. 4, Eurasia Building 91 Hans Van Rensburg Polokwane, 0700</p> <p> Postal Address Suite 345, PostNet Private Bag X9307 Polokwane, 0700</p> <p> +27(0) 15 297 8066 +27(0) 15 297 0059</p>	<p>Nelspruit <small>Riverside Gardens</small></p> <p>7 Riverside Gardens Nelspruit, 1200</p> <p> Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p> +27(0) 82 923 9397 +27(0) 15 297 0059</p>	<p>eThekweni <small>Pumulelo Village</small></p> <p>42 Burlington Drive Westville, 3630</p> <p> Postal Address P.O. Box 213 Westville, 3630</p> <p> +27(0) 83 613 6530 +27(0) 86 655 2654</p>
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hessa@telkomsa.net www.telkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

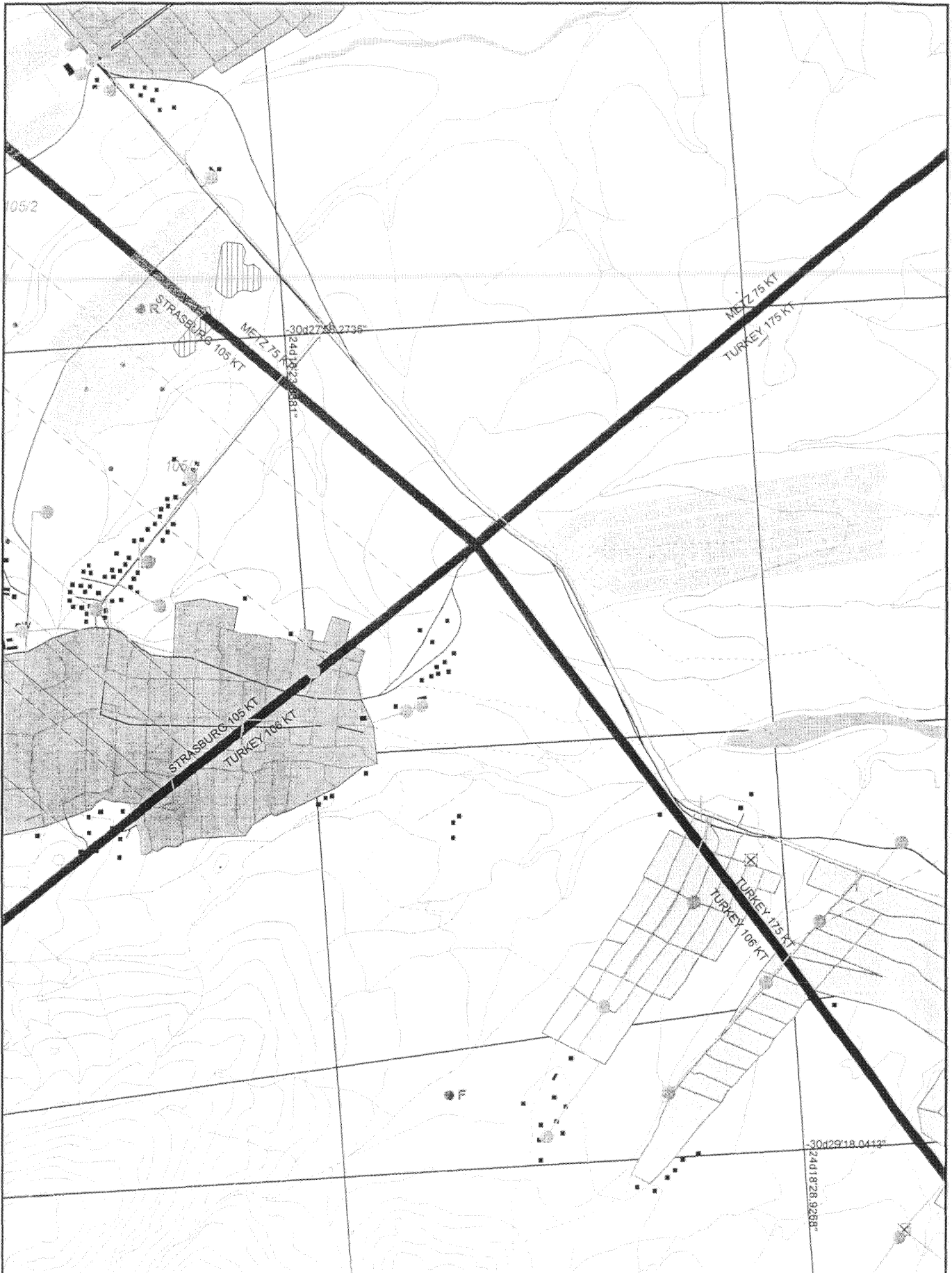
PROJECT DETAILS:

FEEDER:	CUSTOMER: GEOSPACE INTERNATIONAL (PTY) LTD
PROJECT NOMAKGAUNG EXT ELECTRIFICATION	PROPERTY:
LENGTH OF LINE: 9,400 m	MAP REFERENCE: SCALE : 1: 2500
CO-ORDINATES:	T-OFF: -149921.17 (Y) 2687350.1 (X) 654.17(Z) TERMINAL: -149684.74 (Y) 2687807.36 (X) 648.33(Z)

SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed distribution powerlines will cover the Makgaung Village. Area is built up with existing developments and other infrastructures.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	NATIONAL /PROVINCIAL: No Monuments are listed in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected, area already developed
LANDMARKS	None identified
SIGNIFICANCE:	None
POTENTIAL IMPACTS	No impact anticipated since affected area is already built up and previously disturbed for archaeological materials to be in situ.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary, no archaeological materials are likely to be disturbed by pole installations.



..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).



Scale: 1:25000

Makgaung Electrification

Mapsheet 2430AD

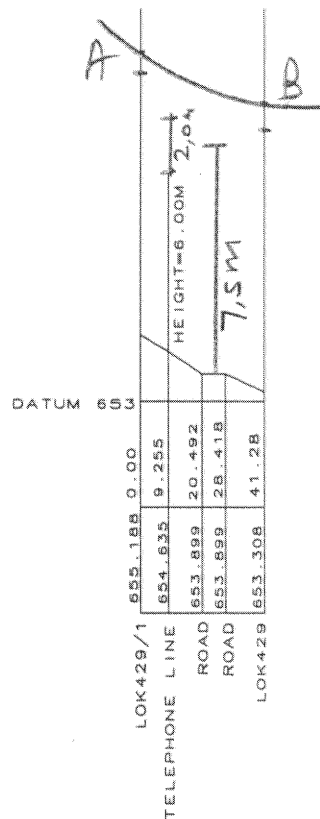
Datum/ System	LO	Project No	Customer	Feeder	Pole No	Description	Structure
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WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK428	Ex Pole	Inter
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429	Ex Pole	T-Off
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK430	Ex Pole	Inter
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/1	New Pole	Inter
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/2	New Pole	Bend
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/3	New Pole	Inter
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/4	New Pole	Trfr
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/5	New Pole	Bend
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/6	New Pole	Inter
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/7	New Pole	Inter
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/8	New Pole	Bend
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/9	New Pole	Bend
WGS84	29	MAKGAUNG EXT ELECTRIFICATION	GEOSPACE INTERNATIONAL (PTY) LTD	LOK	MN Maleka LOK429/10	New Pole	Trfr

Equip	Y	X	Z	LATITUDE	LONGITUDE	Survey Date
None	-149921.17	2687350.1	654.17	24° 16' 56.25742" S	30° 28' 35.51192" E	04/07/2006
None	-149857.06	2687293.1	652.34	24° 16' 54.42728" S	30° 28' 33.21780" E	04/07/2006
None	-149793.99	2687236.84	653.31	24° 16' 52.62111" S	30° 28' 30.96108" E	04/07/2006
None	-149720.73	2687171.72	652.41	24° 16' 50.53063" S	30° 28' 28.33994" E	04/07/2006
None	-149765.04	2687266.22	655.19	24° 16' 53.58565" S	30° 28' 29.94623" E	04/07/2006
None	-149730.6	2687300.88	657.65	24° 16' 54.72369" S	30° 28' 28.73824" E	04/07/2006
None	-149700.71	2687343.65	660.5	24° 16' 56.12370" S	30° 28' 27.69505" E	04/07/2006
None	-149669.2	2687397.83	659.08	24° 16' 57.89491" S	30° 28' 26.59838" E	04/07/2006
None	-149661.85	2687433.1	657.78	24° 16' 59.04345" S	30° 28' 26.35097" E	04/07/2006
None	-149664.57	2687524.03	654.1	24° 17' 1.99693" S	30° 28' 26.48150" E	04/07/2006
None	-149667.44	2687605.93	651.31	24° 17' 4.65687" S	30° 28' 26.61400" E	04/07/2006
None	-149669.27	2687657.09	649.36	24° 17' 6.31856" S	30° 28' 26.69810" E	04/07/2006
None	-149677.2	2687699.24	649.63	24° 17' 7.68528" S	30° 28' 26.99491" E	04/07/2006
None	-149684.74	2687807.36	648.33	24° 17' 11.19563" S	30° 28' 27.30274" E	04/07/2006

POLOKWANE LAND SURVEY
 PROFILE OF TELEPHONE AND ROAD CROSSING D21
 PROJECT No: MAKGAUNG EXT ELECTRIFICATION
 FEEDER:
 CLIENT: GEOSPACE INTERNATIONAL (PTY) LTD
 OCCUPATION No;

THE CROSSING IS AT A SIDE JUNCTION INTO MAKGAUNG VILLAGE

SCALE: HOR: 1/2500
 VERT: 1/250



SURVEYED BY: SHITA INFRASTRUCTURE
 BOX 1654
 KOLOTI
 0709
 CELL: 072 132 4325

HOT CURVE: 15,758

PROFILE: LOK429/1 - LOK429

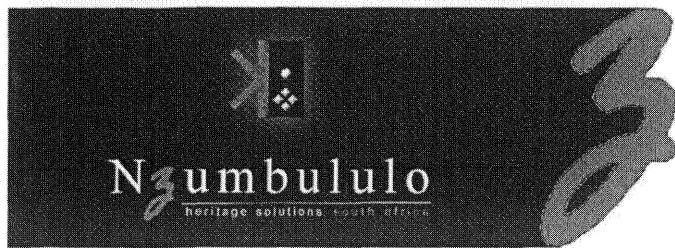
ATTACHMENT HEIGHTS

A= 9,400m
 B= 9,400m
 C= —
 D= —



TEMPLATED BY: J. RAMOADI

DATE: 18/08/2006



CC Reg. No.: 2003/104596/23 | Tax Reg. No.: 9333/565/15/7P | VAT Reg. No.: 4580215056

Polokwane <small>Head Office</small> Suite No. 4, Eurasia Building 91 Hans Van Rensburg Polokwane, 0700 Postal Address Suite 345, PostNet Private Bag X9307 Polokwane, 0700 +27(0) 15 297 8056 +27(0) 15 297 0059	Nelspruit <small>Branch Office</small> 7 Riverside Gardens Nelspruit, 1200 Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200 +27(0) 62 923 9397 +27(0) 15 297 0059	eThekweni <small>Branch Office</small> 42 Burlington Drive Westville, 3630 Postal Address P.O. Box 213 Westville, 3630 +27(0) 65 613 6530 +27(0) 65 635 2634
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hessa5@telkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

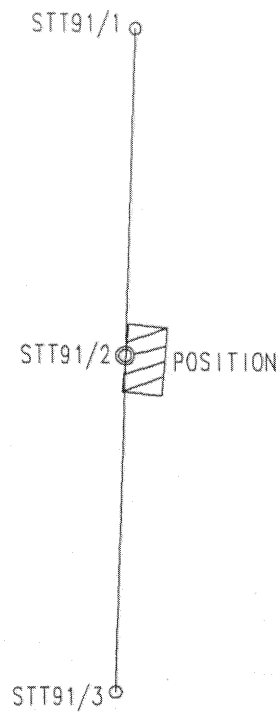
FEEDER:	CUSTOMER: ESKOM
PROJECT NO : STT91/2	PROPERTY:
LENGTH OF LINE: NA	MAP REFERENCE: SCALE : 1: 2500
CO-ORDINATES:	T-OFF: -3078.77 (Y) 2662313.7 (X) TERMINAL: -3082.08 (Y) 2662425.22 (X)

SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed work include installation of the recloser on an existing pole.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involve installation of recloser and work is not covered under the NHRA Act 25 of 1999 Sec 38.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary- work is not listed under the NHRA Act 25 of 1999 Sec 38.

Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

VR3



NORTHERN ENGINEERING DIVISION
 NORTHERN AREA
 LAND DEVELOPMENT
 DISTRIBUTION

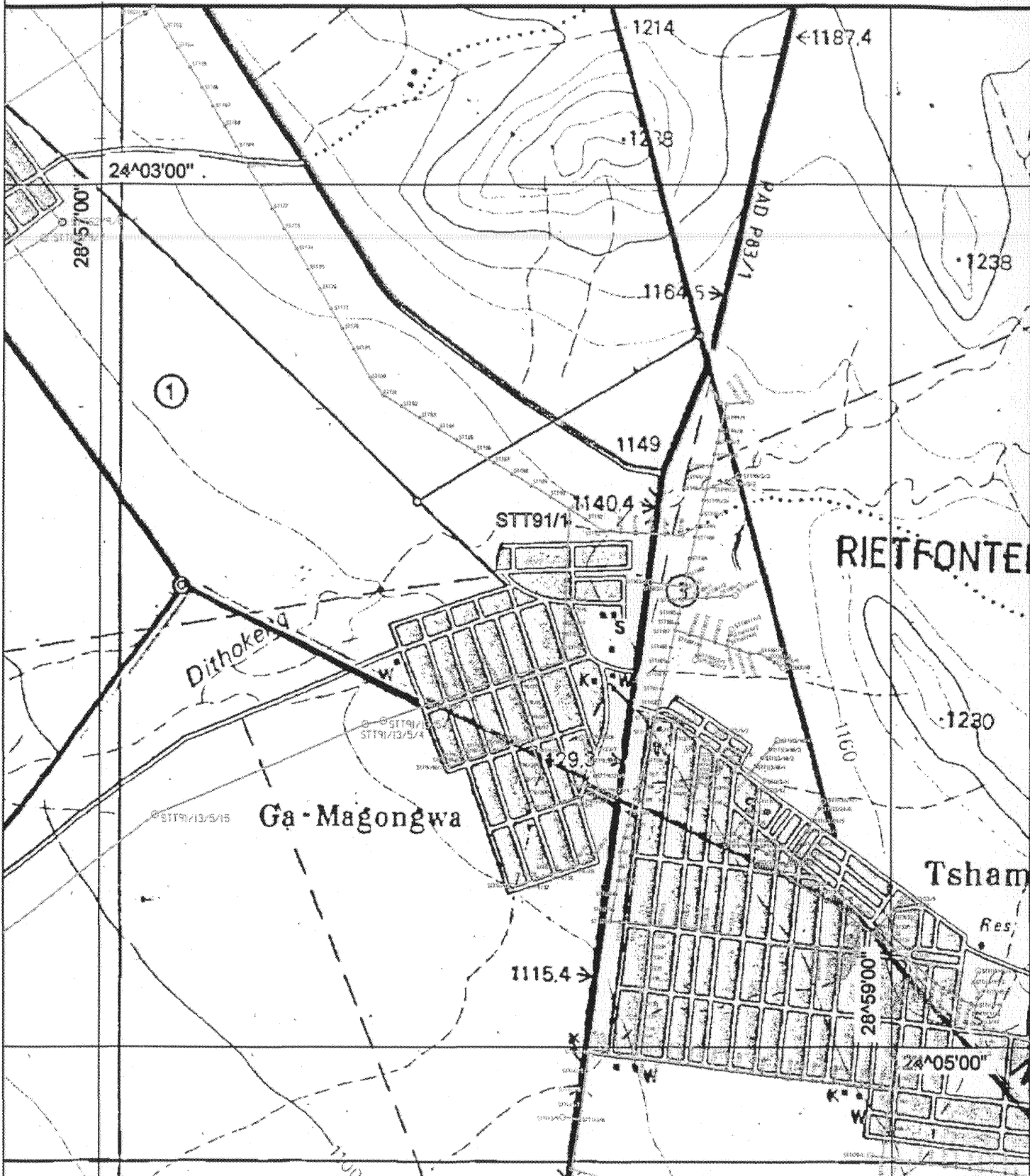


Eskom

P.O. BOX 3499
 PIETERSBURG
 TEL (015)299 0000
 FAX (015)295 7550

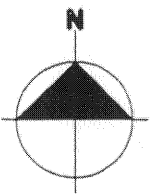
FEEDER :	CUSTOMER :	ESKOM
PROJECT No : STT91/2	PROPERTY :	
CONDUCTOR :	COMPILATION :	
LENGTH OF LINE :	SCALE :	1 : 2500
SURVEYOR : M.I Mashiloane	PAGE :	1 OF 1
DRAUGHTSPERSON : C.L Molato		

DASHED RED LINE INDICATES POWERLINE ROUTE



**Route plan
Northern Region**

Disclaimer
Geographic Mapping, Potolovene
are not responsible for any errors
in external datasets displayed on this map.
The following external datasets were used:
Cadastral
Topographical



CLARKE 1880

Feeder: TURFSPRUIT 22kV

Customer: ESKOM

Project No: RECLOSERS STT 91-1

FSA / TSA Area: MAHWELERENG / POLOKWANE

2428 BB N

Portion of map no:

Scale: 1:25 000

Information from official maps reproduced under Government printers copyright authority No. 4138 of 28/03/1999

Customer Name: ESKOM.....

Project No: STT 91/2.....

TO WHOM IT MAY CONCERN

I, RHALO MASHOSE JOHANNES ID No. 0201185301088 as

a representative of the MAGONGOA Tribal Authority does hereby give permission of "WAYLEAVE" to "ESKOM" (Via Mashiloane Land Surveyors) for the connection of electricity for the above mentioned project(s).

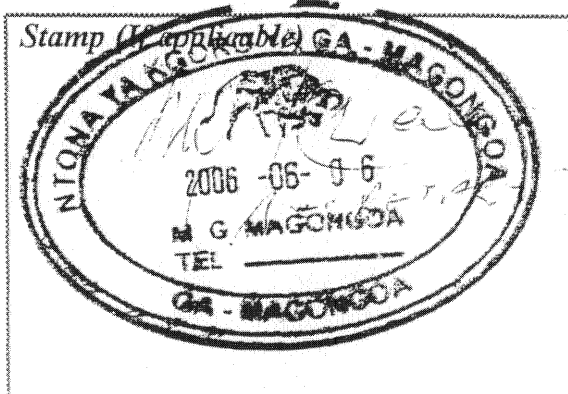
Signature: [Signature]

Capacity (e.g. Headman/Secretary etc) SECRETARY

Date: 06-06-2006

Eskom Representative: [Signature]

Date: 06/06/06





Environmental, GIS & Heritage Management Services

Reg. No. 2003/104596/23 VAT No. 4580215095
ITax No. 9333/585/15/7P

Email: hessa5@telkomsa.net www.hessa.co.za

Limpopo: Suite #345; P/Bag X9307 Polokwane, 0700.

Head Office: 91 Hans Van Rensburg Suite #4, Eurasia Complex; Polokwane, 0700.
Tel: 015 297 8066 Cell: 082 923 9397; Fax: 015 297 0059

KwaZulu Natal: P.O. Box 213 Westville, 3630. Office: 42 Burlington Drive, Westville, 3630. Tel: 083 613 6530 Fax: 031 267 0000

Gauteng: P.O. Box 46, WITS, 2050: Tel: 083 613 6530

DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

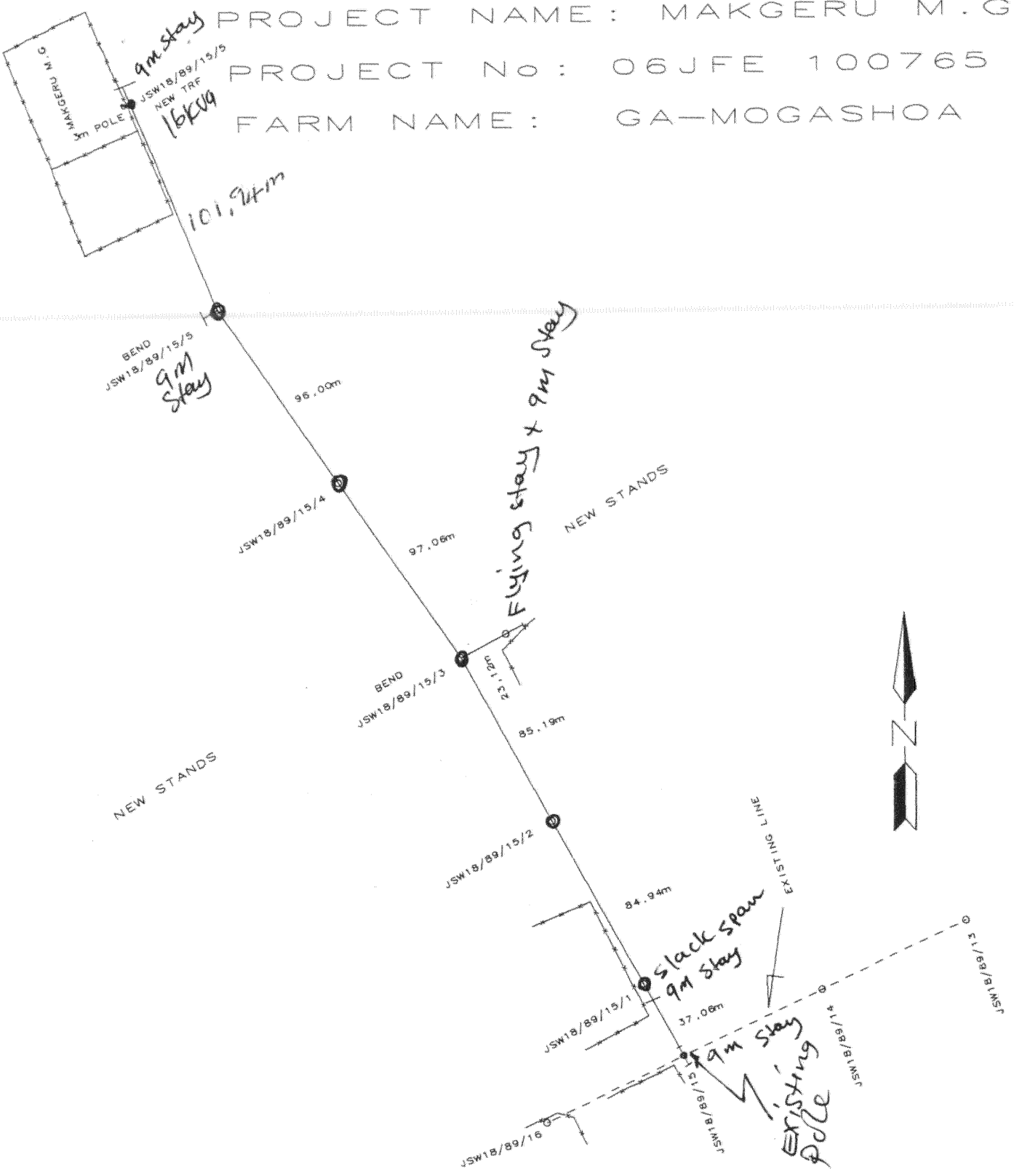
FEEDER: SEOLWANE	CUSTOMER: MAKGERU M.G
PROJECT NO: 06JFE100765	PROPERTY:
LENGTH OF LINE: 502,19m	MAP REFERENCE: SCALE : 1: 2500
CO-ORDINATES:	T-OFF: -99966.71 (Y) 2735637.22 (X) TERMINAL: -99585.88 (Y) 2735266.77 (X)

SENSITIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed line traverses through new demarcated area earmarked for residential development on farm Ga-Mogashoa.
HISTORICAL SITES:	None identified, line will traverses through new demarcated area.
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified along the proposed electricity line route.
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since area is previously disturbed.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary-

..... Principal Investigator/Chief Archaeologist
McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

PROJECT NAME : MAKGERU M.G
 PROJECT No : 06JFE 100765
 FARM NAME : GA-MOGASHOA



NORTHERN ENGINEERING DIVISION
 NORTHERN AREA
 LAND DEVELOPMENT
 DISTRIBUTION



P.O. BOX 3499
 PIETERSBURG
 TEL (015)299 0000
 FAX (015)295 7550

FEEDER : SEOLWANE	CUSTOMER : MAKGERU M.G
PROJECT No : 06JFE100765	PROPERTY :
DATE : 15 /08/2006	COMPILATION :
LENGTH OF LINE : 504.87m 502.19m	SCALE : 2500
SURVEYOR : T.N RAPOTU	PAGE: 1 OF 1
DRAUGHTSPERSON : RICHARD	



Scale: 1:25000

06JFE100765

Makgeru

2429DB



 Eskom
Distribution

**PROJECT NAME: MAKGERU M.G
PROJECT No:06JFE100765**

Datum / System	LO	ProjectNo	Customer	Feeder Code	Surveyor	Pole No	Description	Structure Type	Equipment	Y	X	Longitude	Latitude	Survey Date
WGS84	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/13	Existing	Existing	None	-99966.71	2735637.22	29 59.16.85	24.43.19.74	15/08/2006
WGS84	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/14	Existing	Existing	None	-99901.16	2735669.07	29 59.14.53	24.43.20.79	15/08/2006
WGS84	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/15	Existing	JOIN	None	-99838.04	2735698.98	29 59.12.29	24.43.21.78	15/08/2006
WGS84	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/16	Existing	New	None	-99775.96	2735729.5	29 59.10.09	24.43.22.79	15/08/2006
WGS84	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/15/1	New	New	None	-99820.12	2735666.6	29 59.11.65	24.43.20.73	15/08/2006
WGS85	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/15/2	New	New	None	-99778.86	2735592.3	29 59.10.16	24.43.18.33	15/08/2006
WGS86	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/15/3	New	New	None	-99626.43	2735360	29 59.04.68	24.43.10.81	15/08/2006
WGS87	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/15/4	New	New	None	-99681.67	2735438.5	29 59.06.66	24.43.13.35	15/08/2006
WGS88	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/15/5	New	New	None	-99737.67	2735517.7	29 59.04.68	24.43.10.82	15/08/2006
WGS89	29	06JFE100765	MAKGERU M.G	SEOLWANE	T.N Rapotu	JSW18/89/15/6	New	Transformer	Transformer	-99585.88	2735266.77	29 59.03.22	24.43.07.79	15/08/2006

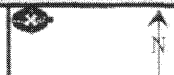


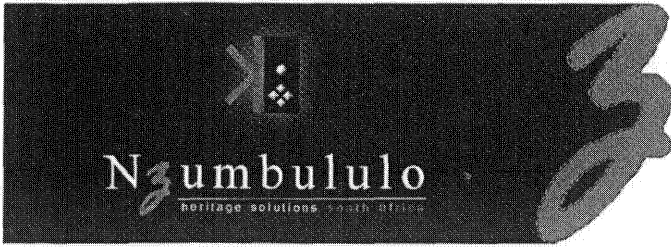
Scale 1:25000

06JFE100765

Makgeru

24290B





CC Reg. No.: 2003/104506/23 | Tax Reg. No.: 9333/565/15/7P | VAT Reg. No.: 4680215085

<p>Polokwane Suite No. 4, Eurasia Building 91 Hans Van Rensburg Polokwane, 0700</p> <p>Postal Address Suite 345, PostNet Private Bag X9307 Polokwane, 0700</p> <p>+27(0) 15 297 8066 +27(0) 15 297 0059</p>	<p>Nelspruit 7 Riverside Gardens Nelspruit, 1200</p> <p>Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p>+27(0) 82 923 9397 +27(0) 15 297 0059</p>	<p>eThekweni 42 Burlington Drive Westville, 3630</p> <p>Postal Address P.O. Box 213 Westville, 3630</p> <p>+27(0) 83 613 6630 +27(0) 86 635 2634</p>
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hessa@etekomsa.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

FEEDER: PENGE	CUSTOMER: LEPELLE NKUMPI MUNIC GA-MMPA
PROJECT NO: 06LEB73057	PROPERTY: VALLIS 36-KT & CANYON 63-KT
LENGTH OF LINE: 892.7m	MAP REFERENCE: 2430 AA SCALE : 1: 5000
CO-ORDINATES:	T-OFF: -113,310,062 (Y) 2670,815,856 (X) TERMINAL: -113,522,227 (Y) 2671,573,038 (X)

SENSETIVE AREAS

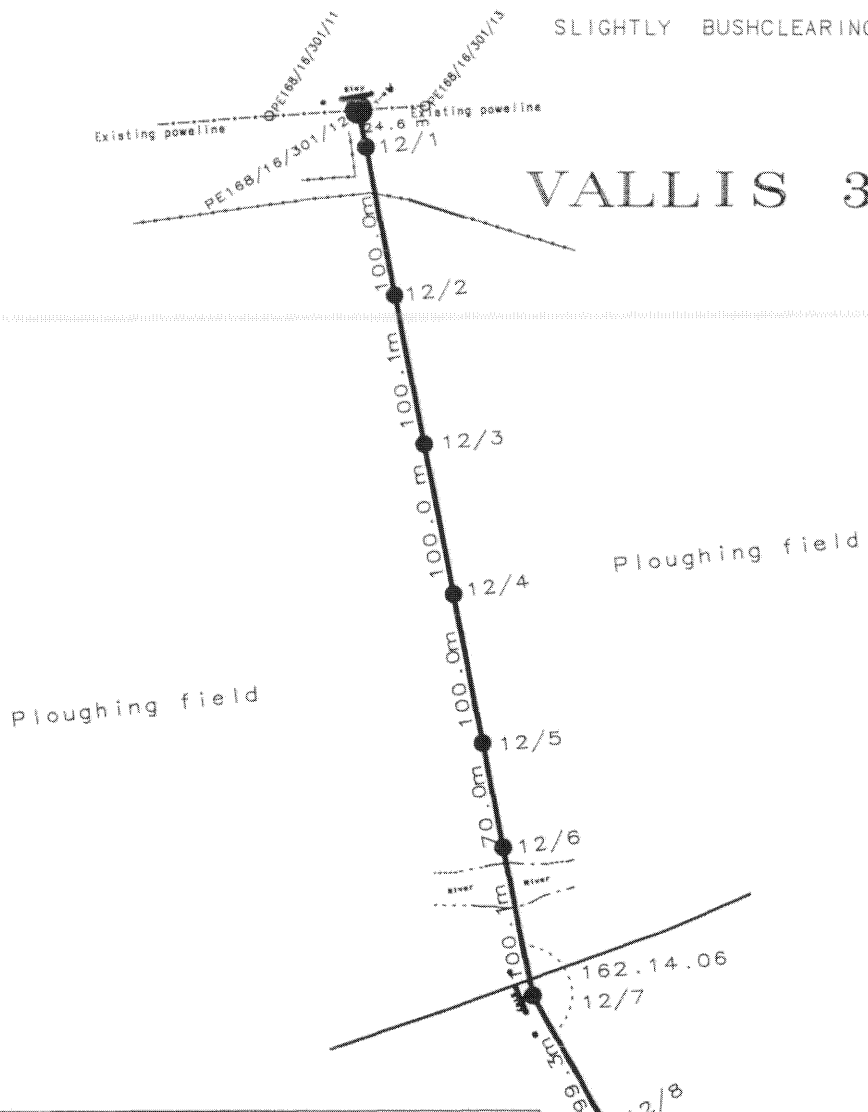
DESCRIPTION OF POWER LINE ROUTE	The proposed distribution powerlines traverses through the agricultural land and built up village settlement.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	NATIONAL /PROVINCIAL: No Monuments are listed in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected, area already developed
LANDMARKS	None identified
SIGNIFICANCE:	None
POTENTIAL IMPACTS	No impact anticipated since affected area is already built up and previously disturbed for archaeological materials to be in situ.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary, no archaeological materials are likely to be disturbed by pole installations.

..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

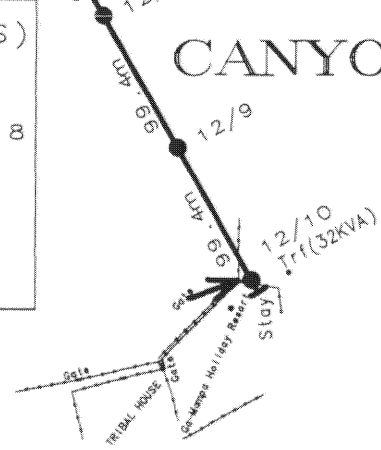
SLIGHTLY BUSHCLEARING REQUIRED



VALLIS 36-KT



CANYON 63-KT



Latitude(E) Longitude(S)
 Pole No: PE168/16/301/12/10
 24:08:44;5896 30:07:02,4118

DISTRIBUTION
 NORTHERN ENGINEERING DIVISION
 NORTHERN AREA
 LAND SURVEY

P.O. BOX 3499
 PIETERSBURG 0700
 TEL. (015) 299 0000
 FAX. (015) 295 7550

FEEDER: PENGE	CUSTOMER: LEPELLE NKUMPI MUNICIPALITY MAFEFE GA-MAMPA
PROJECT No: 06LEB73057	PROPERTY: VALLIS 36-KT AND CANYON 63-KT
CONDUCTOR:	DATE: JULY 2006
LENGTH OF LINE: 892.7m	COMPILATION: 1 : 25 000 MAP SHEET 2430AA
SURVEYOR: MR MAESELA	SCALE: 1 : 5000
DRAUGHTSPERSON: D. SELEKA	PAGE 1 OF 2 PAGES

PIETERSBURG LAND SURVEY

PROFILE OF RIVER CROSSING

SCHEME : PENGE

ROAD No :

PROJECT No : 06LEB73057

CLIENT : LEPELLE NKUMPI MUNICIPALITY MAFEFE GA-MAMPA

OCCUTATION No.

SCALE : VER 1:250

HOR 1:2500

CONDUCTOR:

SURVEYED BY : MAESELA LAND SURVEYORS INC.

HOT CURVE : 11759

ATTACHEMENT HEIGHT :

A= 9.400 m

B= 9.400 m

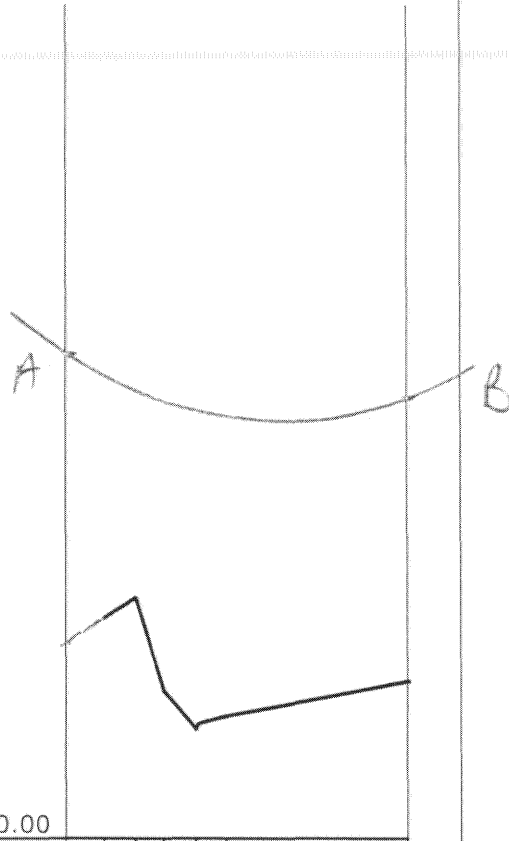
C=

D=

TEMPLATED BY : J.R. AMOADI

DATE : 10/07/2006

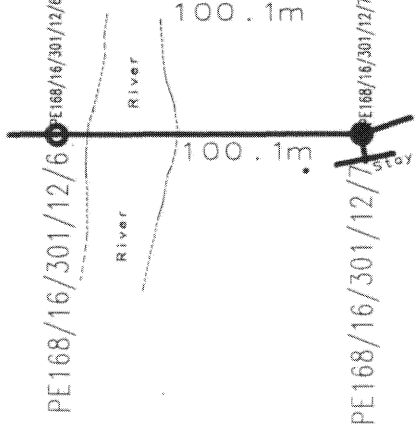
[Handwritten Signature]



DATUM : 780.00

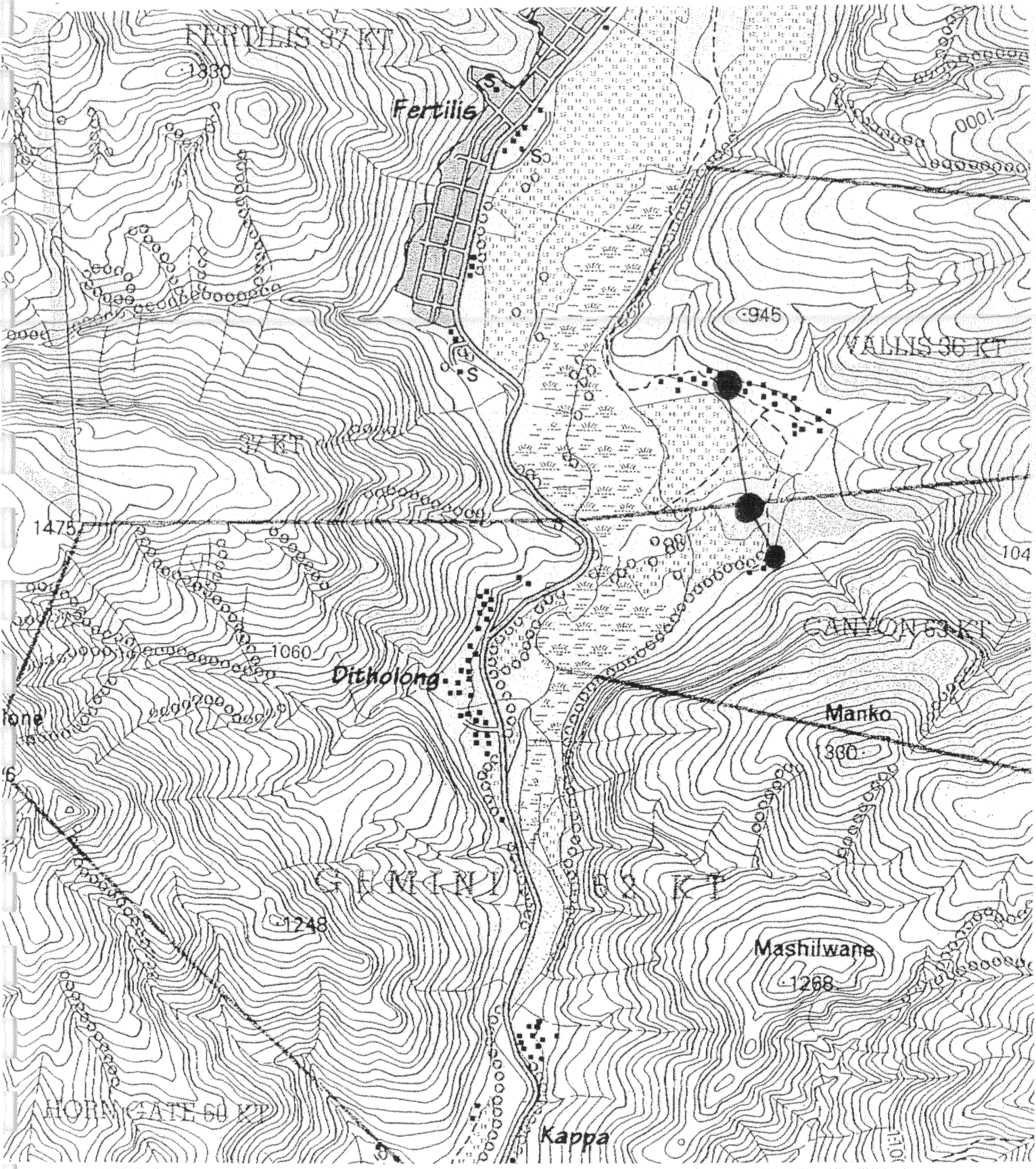
CROSSING ANGLE : 103.10.05

787.30	-0
787.98	10.46
784.87	19.69
783.62	30.42
784.04	40.20
785.21	100.11



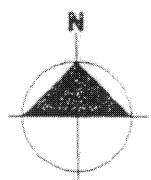
Datum/ system	LO	Project no	Customer	Fdr codes	Surveyor	Pole No.
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/13
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/11
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/7
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/10
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/6
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/5
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/4
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/3
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/2
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/1
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/8
WGS84	29	06LEB73057	LEPELLE NKUMPI MUNICIPALITY	PE	M.R MAESELA	PE168/16/301/12/9

Description	Structure Type	Equipment	Y	X	Z	Survey Date	Latitude (S)	Longitude (E)
T-off	Existing pole	None	-113,310,062	2,670,815,856	#####	03/07/2006	24:08:17,2242	30:06:52,9530
Existing pole	Existing pole	None	-113,353,853	2,670,812,695	#####	03/07/2006	24:08:17,1101	30:06:54,5028
Existing pole	Existing pole	None	-113,251,334	2,670,819,803	#####	03/07/2006	24:08:17,3676	30:06:50,8745
Bend	Pole	None	-113,425,868	2,671,399,269	#####	03/07/2006	24:08:36,1543	30:06:57,2183
Trf	Transformer	Terminal	-113,570,449	2,671,659,982	#####	03/07/2006	24:08:44,5896	30:07:02,4118
New Pole	Pole	None	-113,406,348	2,671,301,076	#####	03/07/2006	24:08:32,9682	30:06:56,4994
New Pole	Pole	None	-113,392,717	2,671,232,430	#####	03/07/2006	24:08:30,7408	30:06:55,9973
New Pole	Pole	None	-113,373,282	2,671,134,327	#####	03/07/2006	24:08:27,5577	30:06:55,2814
New Pole	Pole	None	-113,353,759	2,671,036,297	#####	03/07/2006	24:08:24,3769	30:06:54,5625
New Pole	Pole	None	-113,334,306	2,670,938,148	#####	03/07/2006	24:08:21,1922	30:06:53,8459
New Pole	Pole	None	-113,314,835	2,670,840,034	#####	03/07/2006	24:08:18,0087	30:06:53,1288
New Pole	Pole	None	-113,474,012	2,671,486,119	#####	03/07/2006	24:08:38,9643	30:06:58,9477
New Pole	Pole	None	-113,522,227	2,671,573,038	#####	03/07/2006	24:08:41,7766	30:07:00,6796



**Route plan
Northern Region**

Disclaimer
Geographic Mapping Portals
are not responsible for any errors
in external datasets displayed on this map.
The following internal datasets were used:
Cadastral
Topographic



CLARKE 1880

Feeder: PENG 22kV
 Customer: LEPALLE NKUPI MUNIC-MAFEFE GA MAMAPA
 Project No: 06LEB73057
 FSA / TSA Area: LEBOWAKGOMO / POLOKWANE

2430 AA S
 2430 AA N
 Portion of map no:
 Scale: 1:25 000

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ESKOM WAYLEAVE AGREEMENT

Project Number : 06LEB73057
Place : MAGAFANE VILLAGE Limpopo
MAFEFE - GA - MAMPA
Project Name : _____
Scheme : PENGE
I, DAVID MAKANGOGE MAFEFE
ID No. : 7101215552083
Address : P O BOX 1 MAFEFE
Code: 0738

Capacity : SENIOR ADMINISTRATOR
of the property MAFEFE TRADITIONAL AUTHORITY

has agreed that Eskom can go ahead with the construction of the POWER line as agreed on the routes taken.

We have agreed that any damage to valuable property or part thereof, i.e.*
(i). residential stand, (ii), cultivated land, (iii), area under the chiefs jurisdiction,
during or after construction will be rectified by ESKOM (CONTRACTOR).

Signed at MAFEFE on this 06 day of JULY 2006

Signature: [Signature]

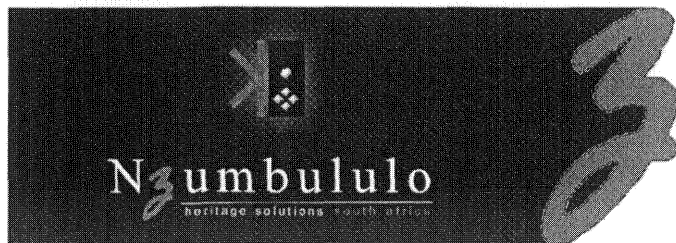
Date: 06/07/2006

Witnesses 1. [Signature]

Date: 06/07/2006



ESKOM REPRESENTATIVE: _____



CC Reg. No.: 2003/104590/23 | Tax Reg. No.: 8333/555/15/7P | VAT Reg. No.: 4590215065

<p>Polokwane Suite No. 4, Eurasia Building 91 Hans Van Rensburg Polokwane, 0700</p> <p>Postal Address Suite 345, PostNet Private Bag X9307 Polokwane, 0700</p> <p>+27(0) 15 297 8068 +27(0) 15 297 0059</p>	<p>Nelspruit 7 Riverside Gardens Nelspruit, 1200</p> <p>Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p>+27(0) 82 923 9397 +27(0) 15 297 0059</p>	<p>eThekweni 42 Burlington Drive Westville, 3630</p> <p>Postal Address P.O. Box 213 Westville, 3630</p> <p>+27(0) 89 813 6530 +27(0) 86 655 2634</p>
--	---	---

hessa@telkomisa.net

DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

FEEDER: MATALA	CUSTOMER: KRODIL HEUWEL PUMP E
PROJECT NO: 06LEB97721	PROPERTY: KROKODIL VILLAGE
LENGTH OF LINE: 870.7m	MAP REFERENCE: 2429 CB SCALE : 1: 3000
CO-ORDINATES:	T-OFF: -44964,788 (Y) 2732742,636 (X) TERMINAL: -44593,669 (Y) 2733358,174 (X)

SENSETIVE AREAS

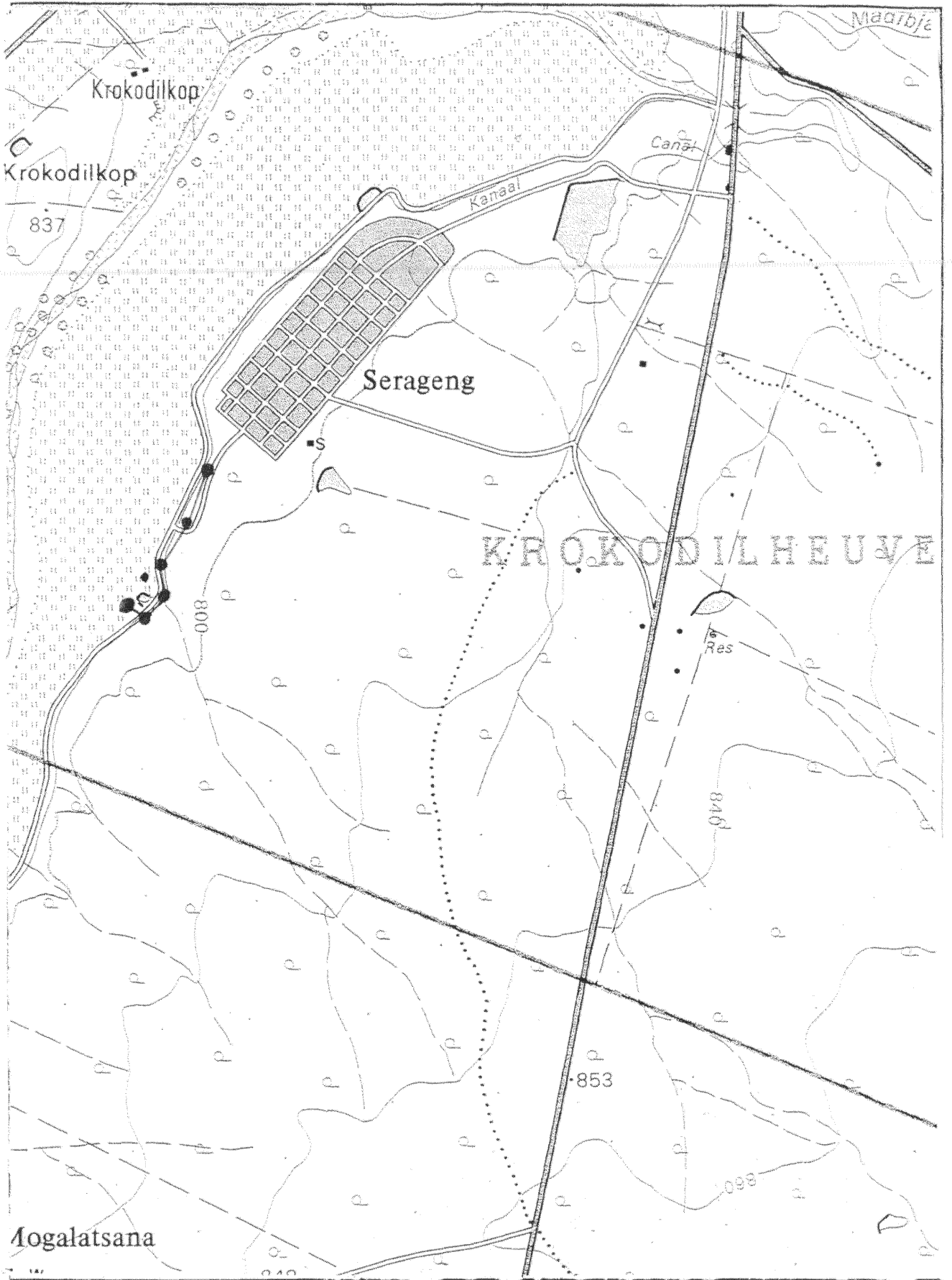
DESCRIPTION OF POWER LINE ROUTE	The proposed distribution powerline will cover the Krokodil Village. It traverses through agricultural area along the canal, from pump D to Pump E sites
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	NATIONAL /PROVINCIAL: No Monuments are listed in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected, area already developed
LANDMARKS	None identified
SIGNIFICANCE:	None
POTENTIAL IMPACTS	No impact anticipated since affected area is already disturbed by agricultural activities and other developments
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary, no archaeological materials are likely to be disturbed by pole installations.

..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

SLIGHT BUSHCLEARING REQUIRED



DISTRIBUTION NORTHERN ENGINEERING DIVISION NORTHERN AREA LAND SURVEY	P.O. BOX 3499 PIETERSBURG 0700 TEL. (015) 299 0000 FAX. (015) 295 7550
FEEDER: MATALA	CUSTOMER: KRODIL HEUWEL PUMP E
PROJECT No: 06LEB97721	PROPERTY: KROKODIL VILLAGE
CONDUCTOR:	DATE: AUGUST 2006
LENGTH OF LINE: 870.7m	COMPILATION: 1 : 25 000 MAP SHEET 2429 CB
SURVEYOR: MR MAESELA	SCALE: 1: 3 000
DRAUGHTSPERSON: R CHIPANA	PAGE 1 OF 1 PAGE



Scale 1:250:0

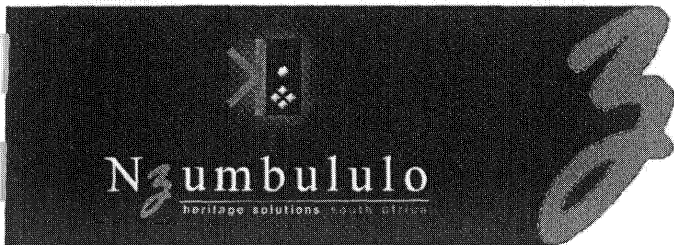
06LEB97721

Krokodil Heuvel Pump E 2429CB



Datum/ system	LO	Project no	Customer	Fdr codes	Surveyor	Pole No.	Description
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/36	T-off
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/37	New pole
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/38	New pole
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/39	Bend
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/40	New pole
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/41	New pole
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/42	Bend
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/43	New pole
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/44	Bend
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/45	New pole
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/46	Bend
WGS84	29	06JFE97721	KROKODILE HEUWEL PUMP - E	VM	M.R MAESELA	VM324/47	Trf

Structure Type	Equipment	Y	X	Z	Survey Date	Latitude (S)	Longitude (E)
New pole	None	-44964,788	2732742,636	#####	25/08/2006	24 42 02,3470	29 26 39,5903
New pole	None	-44933,764	2732820,760	#####	25/08/2006	24 42 04,8895	29 26 38,4956
New pole	None	-44902,765	2732898,870	#####	25/08/2006	24 42 07,4314	29 26 37,4019
New pole	None	-44871,738	2732976,983	#####	25/08/2006	24 42 09,9734	29 26 36,3071
New pole	None	-44830,740	2733043,001	#####	25/08/2006	24 42 12,1234	29 26 34,8562
New pole	None	-44789,764	2733108,966	#####	25/08/2006	24 42 14,2717	29 26 33,4061
New pole	None	-44748,785	2733174,937	#####	25/08/2006	24 42 16,4201	29 26 31,9559
New pole	None	-44760,028	2733252,016	#####	25/08/2006	24 42 18,9241	29 26 32,3647
New pole	None	-44771,270	2733329,106	#####	25/08/2006	24 42 21,4285	29 26 32,7735
New pole	None	-44719,059	2733372,850	#####	25/08/2006	24 42 22,8557	29 26 30,9211
New pole	None	-44666,836	2733416,570	#####	25/08/2006	24 42 24,2821	29 26 29,0683
Transformer	Terminal	-44593,669	2733358,174	#####	25/08/2006	24 42 22,3918	29 26 26,4587



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 +27(0) 15 297 0559

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 +27(0) 86 655 2634

hussa5@telkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

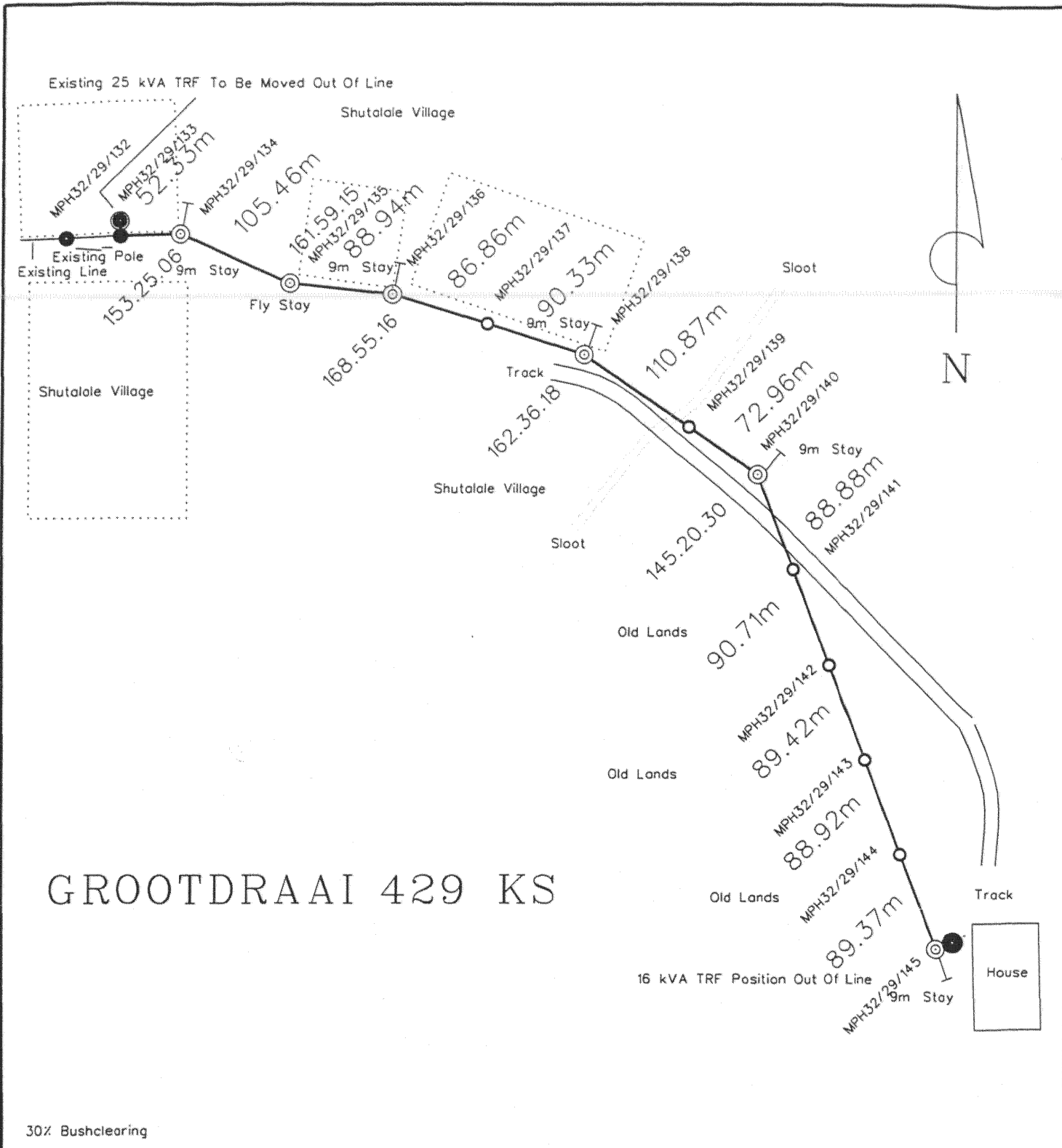
PROJECT DETAILS:

FEEDER: MPHAAHLELE 11KV	CUSTOMER: ZM MAKGAI
PROJECT NO : 06LEB101745	PROPERTY: GROOTDRAAI 429 KS
LENGTH OF LINE: 1.055 KM	MAP REFERENCE: 2429 BC-N&BD SCALE : 1: 5000
CO-ORDINATES:	T-OFF: -75390.85 (Y) 2688710.66 (X) TERMINAL: -76151.10 (Y) 2689335.86 (X)

SENSITIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed distribution powerlines will cover the Shutalale Village. Area is built up with existing developments and other infrastructures.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	NATIONAL /PROVINCIAL: No Monuments are listed in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected, area already developed
LANDMARKS	None identified
SIGNIFICANCE:	None
POTENTIAL IMPACTS	No impact anticipated since affected area is already built up and previously disturbed for archaeological materials to be found <i>in situ</i> .
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary, no archaeological materials are likely to be disturbed by pole installations.

..... Principal Investigator/Chief Archaeologist
 Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).



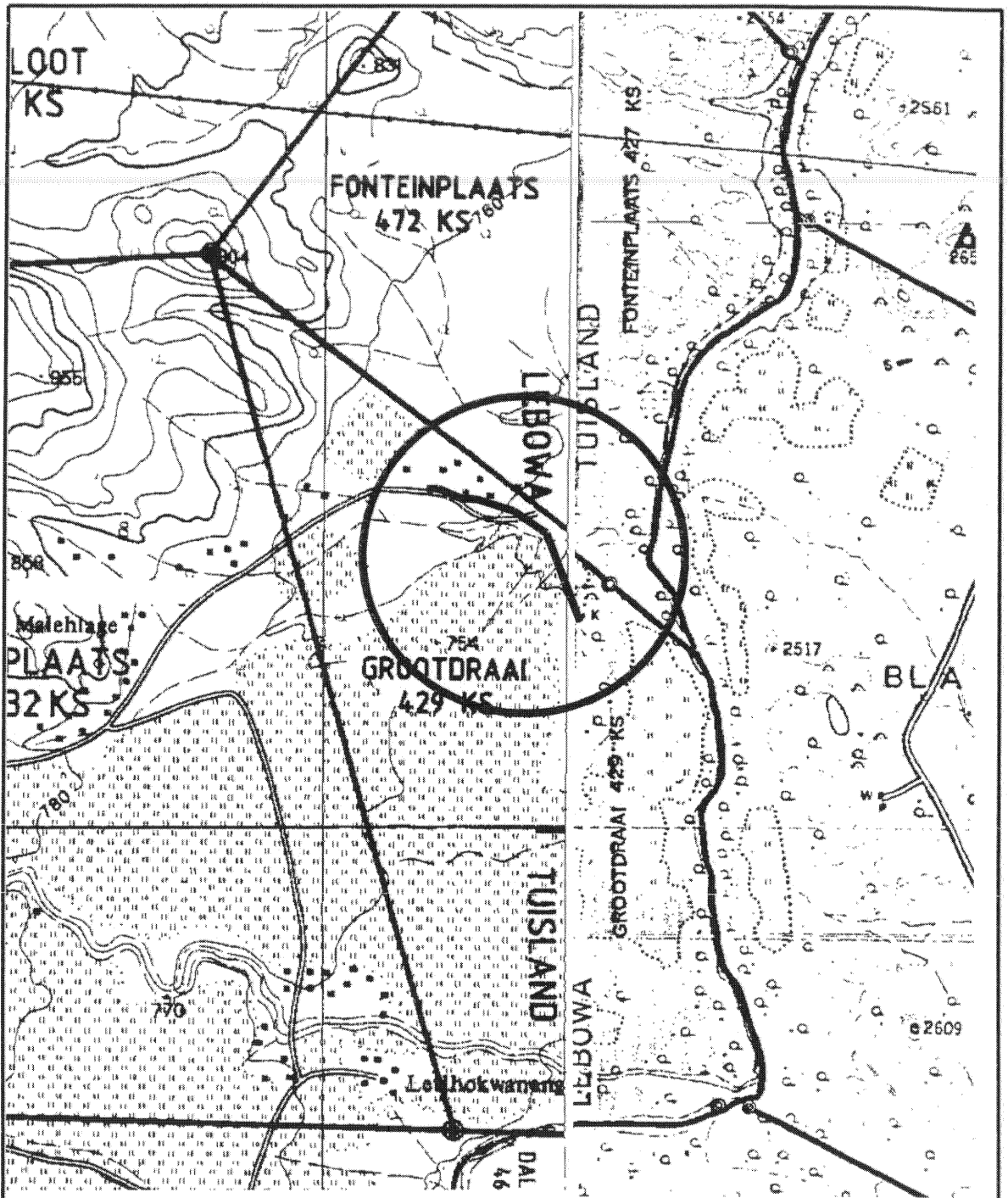
GROOTDRAAI 429 KS

30% Bushclearing

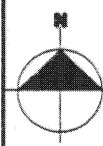
LJCC ENGINEERING SURVEY

P.O. BOX 12452
 BENDOR 0699
 TEL. 082 899 8529
 FAX. (015) 297 3081

FEEDER: MPAHLELE 11 kV	CUSTOMER: ZM MAKGAI
PROJECT NO: 06LEB101745	PROPERTY: GROOTDRAAI 429 KS
CONDUCTOR: FOX	
LENGTH OF LINE: 1.055 km.	COMPILATION: 2429 BC - N & BD - N
SURVEYOR: A RANDALL	SCALE: 1 : 5000
DRAUGHTSPERSON: A RANDALL	PAGE: 1 OF 1



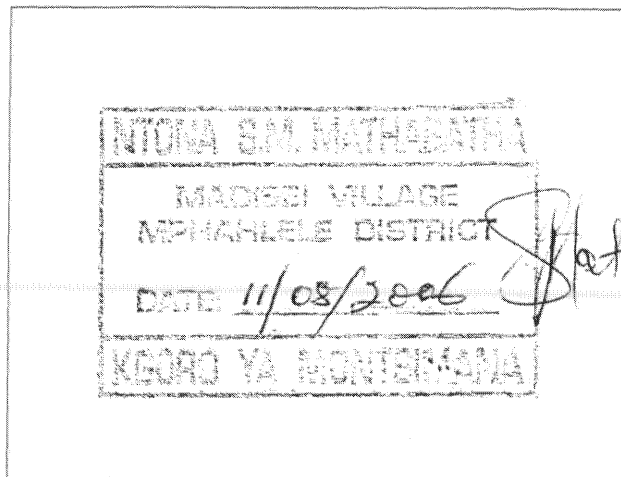
ROUTEPLAN



<p>PLAN NO.</p> <p>2429 BC - N</p> <p>2429 BD - N</p>	FEEDER: MPHAPHELE 11 kV
	CLIENT: ZM MAKGAI
	PROJECT NO: 06LEBIO1745
	SCALE: 1: 25 000
AREA: LEBOWAKGOMO	

Annexure D2:SPREADSHEET FORMAT EXAMPLE

Datum / System	LO	ProjectNo	Customer	Feeder Code	Surveyor	Pole No	Description	Structure Type	Equipment	Y	X	Z	Survey Date
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/132	Ex Pole	Intermediate	None	-75390.85	2688710.66		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/133	Ex Pole	TRF/T Off	None	-75437.04	2688709.01		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/134	New Pole	Bend	None	-75489.33	2688706.92		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/135	New Pole	Bend	None	-75585.46	2688750.31		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/136	New Pole	Bend	None	-75673.87	2688760.04		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/137	New Pole	Intermediate	None	-75756.80	2688785.93		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/138	New Pole	Bend	None	-75843.00	2688812.91		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/139	New Pole	Intermediate	None	-75934.17	2688876.02		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/140	New Pole	Bend	None	-75994.03	2688917.70		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/141	New Pole	Intermediate	None	-76025.23	2689000.92		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/142	New Pole	Intermediate	None	-76057.00	2689085.21		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/143	New Pole	Intermediate	None	-76088.43	2689168.93		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/144	New Pole	Intermediate	None	-76119.70	2689252.18		2006/08/11
WGS84	29	06LEB101745	ZM Makgai	MPH	A Randall	MPH32/29/145	New Pole	TRF	None	-76151.10	2689335.86		2006/08/11



TO WHOM IT MAY CONCERN

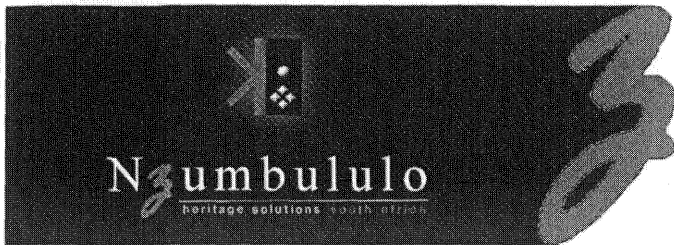
I Sepete J. Matkabatha as representative
of the Montimang Tribal
Authority, do hereby give permission of "WAYLEAVE" to ESKOM (via P M
Mostert Consultants) for the connection of electricity for the following
projects:

NO:	Project NO:	Description
1.	06LEB101745	Z.M. MULLI PI
2.		
3.		
4.		
5.		

Yours faithfully,

Hath

Date: 11/05/2006



CC Reg. No.: 2003/104506/23 | Tax Reg. No.: 9333/565/15/7P | VAT Reg. No.: 4680215065

<p>Polokwane <small>Polokwane</small> Suite No. 4, Eurasia Building 81 Hans Van Rensburg Polokwane, 0700</p> <p>Postal Address Suite 345, PostNet Private Bag X6307 Polokwane, 0700</p> <p>+27(0) 15 297 8066 +27(0) 15 297 0059</p>	<p>Nelspruit <small>Nelspruit</small> 7 Riverside Gardens Nelspruit, 1200</p> <p>Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p>+27(0) 82 925 9397 +27(0) 15 297 0059</p>	<p>eThekweni <small>eThekweni</small> 42 Burlington Drive Westville, 3630</p> <p>Postal Address P.O. Box 213 Westville, 3630</p> <p>+27(0) 83 613 6030 +27(0) 86 655 2034</p>
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hessa5@talkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

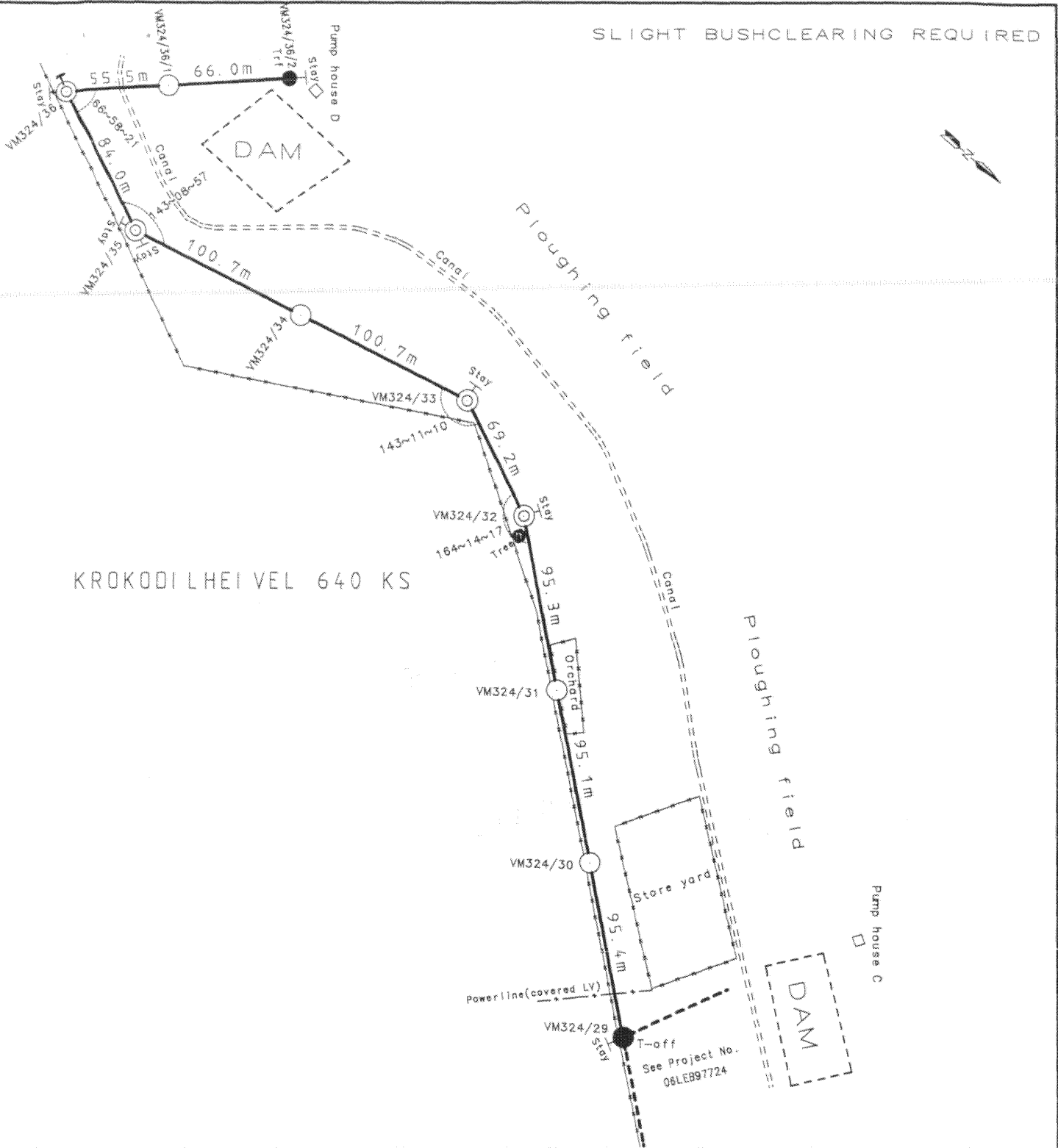
FEEDER: MATALA	CUSTOMER: KRODIL HEUWEL PUMP D
PROJECT NO: 06LEB97726	PROPERTY: KROKODIL VILLAGE
LENGTH OF LINE: 762.0m	MAP REFERENCE: 2429 CB SCALE : 1: 3000
CO-ORDINATES:	T-OFF: -45412,095 (Y) 2732178,662 (X) TERMINAL: -44878,326 (Y) 2732657,217 (X)

SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed distribution powerlines will developed in Krokodil Village area. It traverses through agricultural area along canal.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	NATIONAL /PROVINCIAL: No Monuments are listed in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected, area already developed
LANDMARKS	None identified
SIGNIFICANCE:	None
POTENTIAL IMPACTS	No impact anticipated since affected area is already built up and previously disturbed for archaeological materials to be in situ.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary, no archaeological materials are likely to be disturbed by pole installations.

..... Principal Investigator/Chief Archaeologist
 Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

SLIGHT BUSHCLEARING REQUIRED

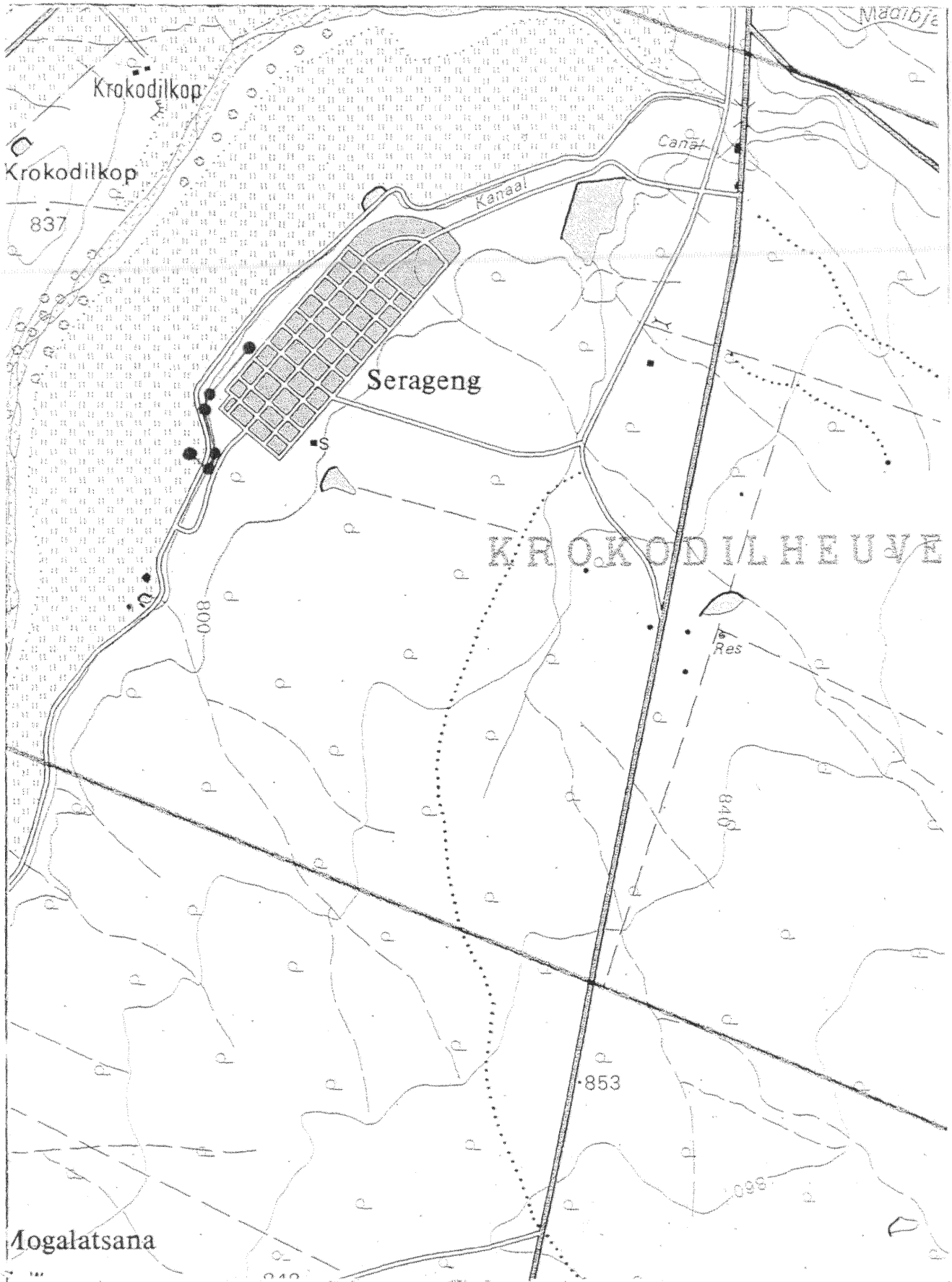


KROKODILHEIVEL 640 KS

DISTRIBUTION
NORTHERN ENGINEERING DIVISION
NORTHERN AREA
LAND SURVEY

P.O. BOX 3499
PIETERSBURG 0700
TEL. (015) 299 0000
FAX. (015) 295 7550

FEEDER: MATALA	CUSTOMER: KRODIL HEUWEL PUMP D
PROJECT No: 06LEB97726	PROPERTY: KROKODIL VILLAGE
CONDUCTOR:	DATE: AUGUST 2006
LENGTH OF LINE: 762.0m	COMPILATION: 1 : 25 000 MAP SHEET 2429 CB
SURVEYOR: MR MAESELA	SCALE: 1 : 3 000
DRAUGHTSPERSON: R CHIPANA	PAGE 1 OF 1 PAGE



Scale: 1:25000

06LEB97726

Krokodil Heuvel Pump 2429CB

Eskom
Distributor

Datum/ system	LO	Project no	Customer	Fdrrodes	Surveyor	Pole No.	Description
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/29	T-off
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/30	New pole
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/31	New pole
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/32	Bend
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/33	Bend
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/34	New pole
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/35	Bend
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/36	Bend
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/36/1	New pole
WGS84	29	06JFE97726	KROKODILE HEUWEL PUMP - D	VM	M.R MAESELA	VM324/36/2	Tf

Structure Type	Equipment	Y	X	Z	Survey Date	Latitude (S)	Longitude (E)
New pole	None	-45142,095	2732178,662	#####	25/08/2006	24 41 43,9984	29 26 45,8324
New pole	None	-45084,137	2732254,490	#####	25/08/2006	24 41 46,4691	29 26 43,7795
New pole	None	-45026,377	2732330,100	#####	25/08/2006	24 41 48,9326	29 26 41,7336
New pole	None	-44968,527	2732405,780	#####	25/08/2006	24 41 51,3984	29 26 39,6844
New pole	None	-44943,018	2732470,102	#####	25/08/2006	24 41 53,4916	29 26 38,7844
New pole	None	-44969,398	2732567,321	#####	25/08/2006	24 41 56,6486	29 26 39,7340
New pole	None	-44995,800	2732664,533	#####	25/08/2006	24 41 59,8054	29 26 40,6845
New pole	None	-44964,788	2732742,636	#####	25/08/2006	24 42 02,3470	29 26 39,5903
New pole	None	-44925,330	2732703,610	#####	25/08/2006	24 42 01,0828	29 26 38,1821
Transformer	Terminal	-44878,326	2732657,217	#####	25/08/2006	24 41 59,5799	29 26 36,5047



CC Reg. No.: 2009/104596/23 | Tax Reg. No.: 6335/66/15/7P | VAT Reg. No.: 4560215095

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eThekweni

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+27(0) 86 655 2034

heresa2@tolkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

FEEDER: STYDRAAL 22 KV	CUSTOMER: MAMAKGANE SEEMA
PROJECT NO: 06JFE88096	PROPERTY: MOOPLAATS 516 KS
LENGTH OF LINE: 81,86m	MAP REFERENCE: 2429 BC S B/D SCALE : 1: 2500
CO-ORDINATES:	T-OFF: -50217.12 (Y) 2634827.4 (X) TERMINAL: -50402.65 (Y) 2634729.1 (X)

SENSETIVE AREAS

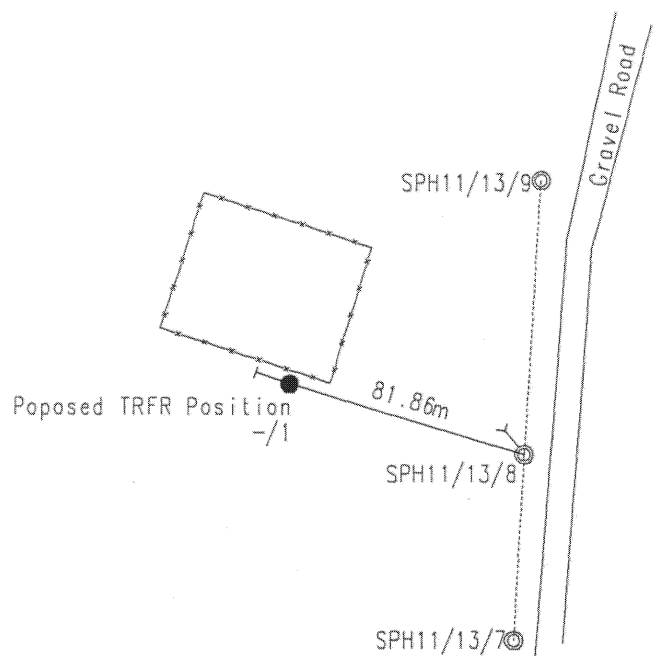
DESCRIPTION OF POWER LINE ROUTE	The proposed work includes installation of the recloser on an existing pole.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involves installation of recloser and work is not covered under the NHRA Act 25 of 1999 Sec 38.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary-

..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

309
23/6



MOOPLAATS 516 KS



NORTHERN ENGINEERING DIVISION
 NORTHERN AREA
 LAND DEVELOPMENT
 DISTRIBUTION



Eskom

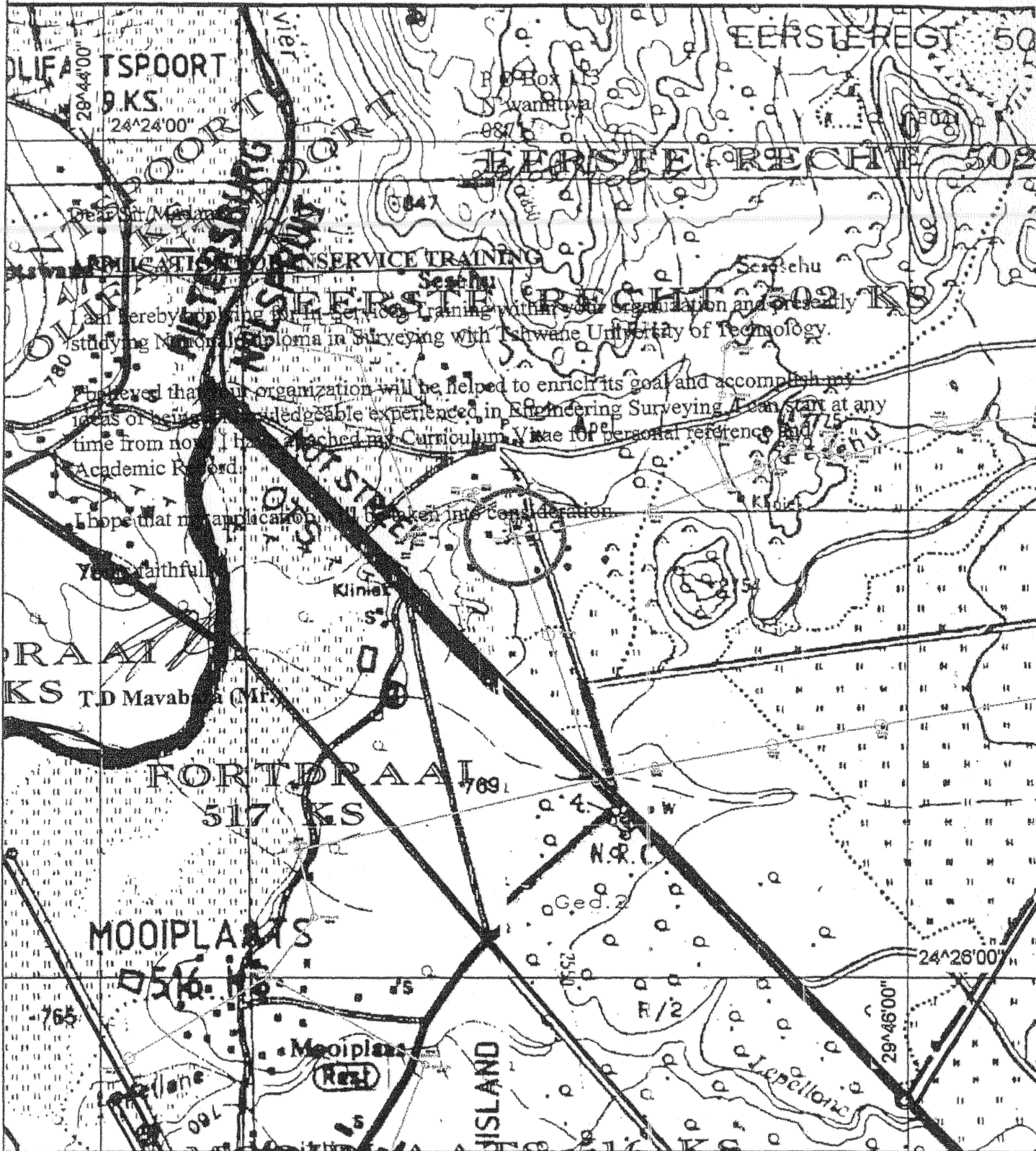
P.O. BOX 3499
 PIETERSBURG
 TEL (015)299 0000
 FAX (015)295 7550

FEEDER :	STYDKRAAL 22KV	CUSTOMER :	MAMAKGANE SEEMA
PROJECT No :	06JFE88096	PROPERTY :	MOOPLAATS 516 KS
CONDUCTOR :			
LENGTH OF LINE :	81,86m	COMPILATION :	2429 BC S/BD S
SURVEYOR :	M.I Mashiloane	SCALE :	1 : 2500
DRAUGHTSPERSON :	C.L Moloto	PAGE :	1 OF 1

PROJECT :SEEMA MAMAKGANE

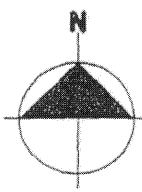
Datum / System	LO	ProjectNo	Customer	Feeder Code	Surveyor	Pole No	Description	Structure Type	Equipment	Y	X	Z	Survey Date
WGS84	29	06JFE88096	SEEMA MAMAKGANE	SPH	M.I.Mashiloane	SPH11/13/8	T-OFF	Pole	None	-76990.81	2700825.43		15/06/2006
WGS84	29	06JFE88096	SEEMA MAMAKGANE	SPH	M.I.Mashiloane	SPH11/13/7	BEND	Pole	None	-76987.23	2700887.12		15/06/2006
WGS84	29	06JFE88096	SEEMA MAMAKGANE	SPH	M.I.Mashiloane	SPH11/13/9	BEND	Pole	None	-76996.81	2700734.78		15/06/2006
WGS84	29	06JFE88096	SEEMA MAMAKGANE	SPH	M.I.Mashiloane	SPH11/13/14	TRFR	Pole	Transformer	-77165.51	2700545.70		15/06/2006
WGS84	29	06JFE88096	SEEMA MAMAKGANE	SPH	M.I.Mashiloane	SPH11/13/8/1	TERMINAL	None	Transformer	-76912.39	2700801.97		15/06/2006

DASHED RED LINE INDICATES POWERLINE ROUTE



Route plan
Northern Region

Disclaimer
Geographic Mapping Portals
are not responsible for any errors
in external datasets displayed on this map.
The following external datasets were used:
Cardinal
Topographical



Feeder: STRYDHRAAL 22kV
Customer: SEEMA MAMAKGANE
Project No: 06JFE88096

2429 BD S
2429 BC S
Portion of map no:

FSA / TSA Area: LEBOWAKGOMO / POLOKWANE

Scale: 1:25 000

CLARKE 1880

Information from official maps reproduced under Government printers copyright authority No. 4138 of 28/03/1989

Customer Name: NAMAKGANE SEEMA

Project No: 06 IFESS 096

TO WHOM IT MAY CONCERN

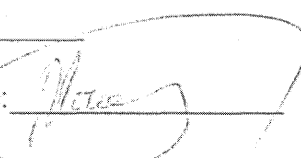
I, Nchabeleng M.K. ID No. 4705055306 as

a representative of the T/A Mankotsana Tribal Authority does hereby give permission of "WAYLEAVE" to "ESKOM" (Via Mashiloane Land Surveyors) for the connection of electricity for the above mentioned project(s).

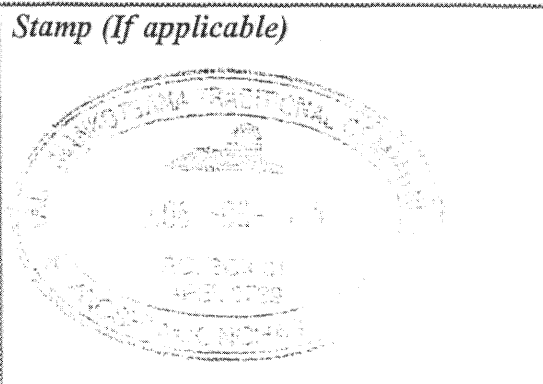
Signature: 

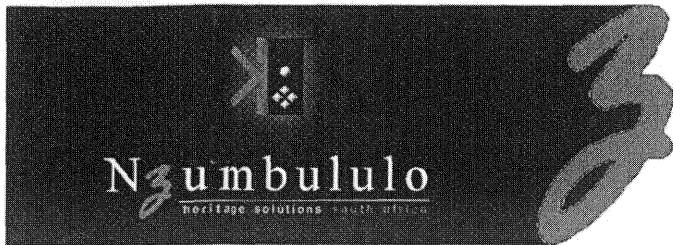
Capacity (e.g. Headman/Secretary etc) kgoshi

Date: 15/06/06

Eskom Representative: 

Date: 15/06/2006





CC Reg. No: 2003/104596/25 | Tax Reg No.: 6333/585/15/7P | VAT Reg. No. 4580215095

<p>Polokwane <small>Liboneng</small> Suite No. 4, Eurasia Building 81 Hans Van Rensburg Polokwane, 0700</p> <p>Postal Address Suite 345, PostNet Private Bag X9307 Polokwane, 0700</p> <p>+27(0) 15 297 8088 +27(0) 15 297 0059</p>	<p>Nelspruit <small>Ripona/Panorpa</small> 7 Riverside Gardens Nelspruit, 1200</p> <p>Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p>+27(0) 82 923 9397 +27(0) 15 297 0059</p>	<p>eThekweni <small>Kwa-Zulu Natal</small> 42 Burlington Drive Westville, 3630</p> <p>Postal Address P.O. Box 213 Westville, 3630</p> <p>+27(0) 83 613 6500 +27(0) 86 655 2834</p>
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hessas@telkomsa.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

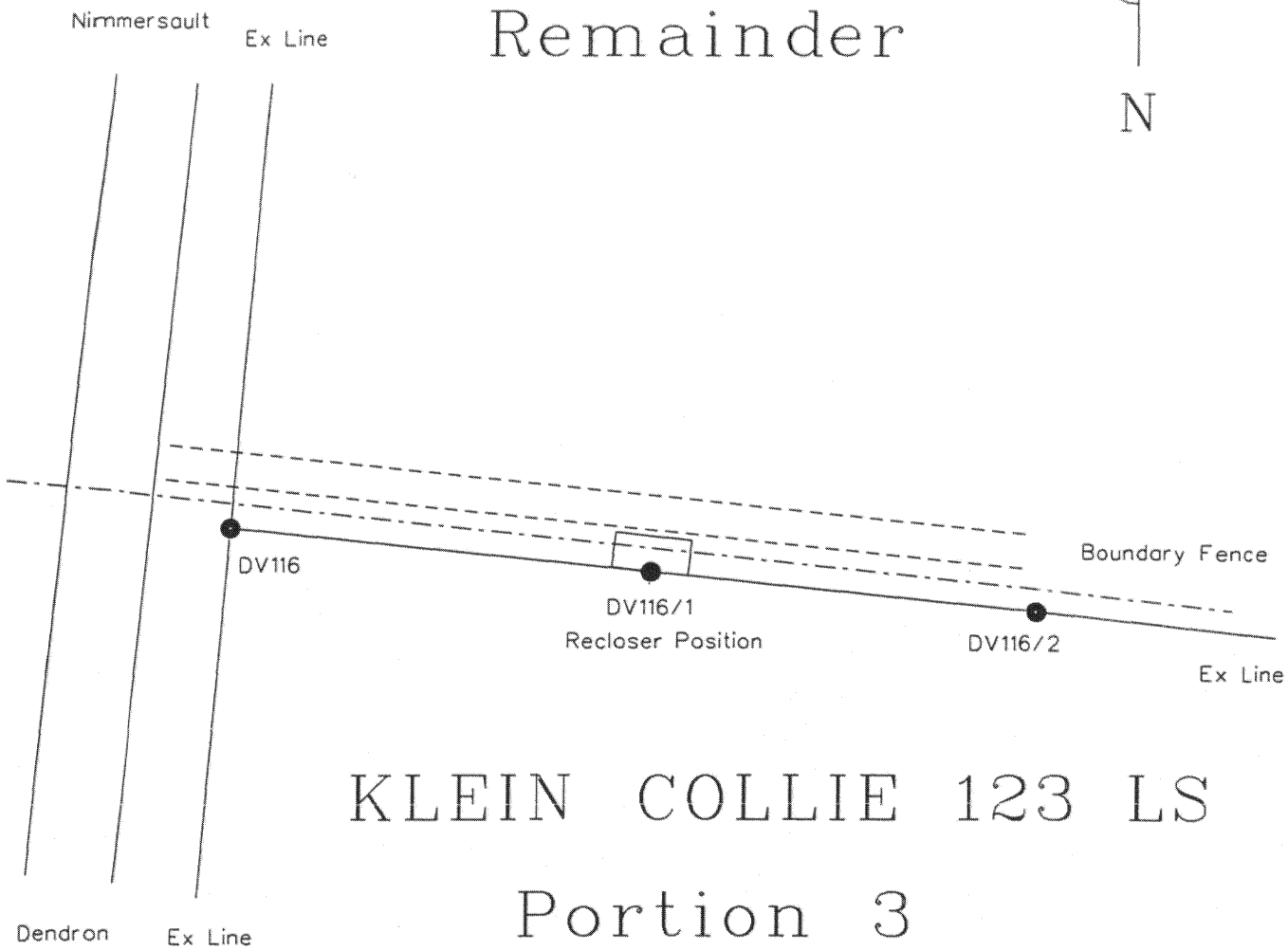
FEEDER: VIVO 22KV	CUSTOMER: ESKOM
PROJECT NO : DV 116/1	PROPERTY: KLEIN COLIE 123 LS PTN 3
LENGTH OF LINE: NA	MAP REFERENCE: 2329 AD-N SCALE : 1: 1000
CO-ORDINATES:	T-OFF: -42387.18 (Y) 2575467.65 (X) TERMINAL: -42438.33 (Y) 2575471.49 (X)

SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed work includes installation of the recloser on an existing pole.
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involves installation of recloser on existing powerline pole.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary-

..... Principal Investigator/Chief Archaeologist
 Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

NEW HANOVER 124 LS Remainder



KLEIN COLLIE 123 LS Portion 3

LJCC ENGINEERING SURVEY

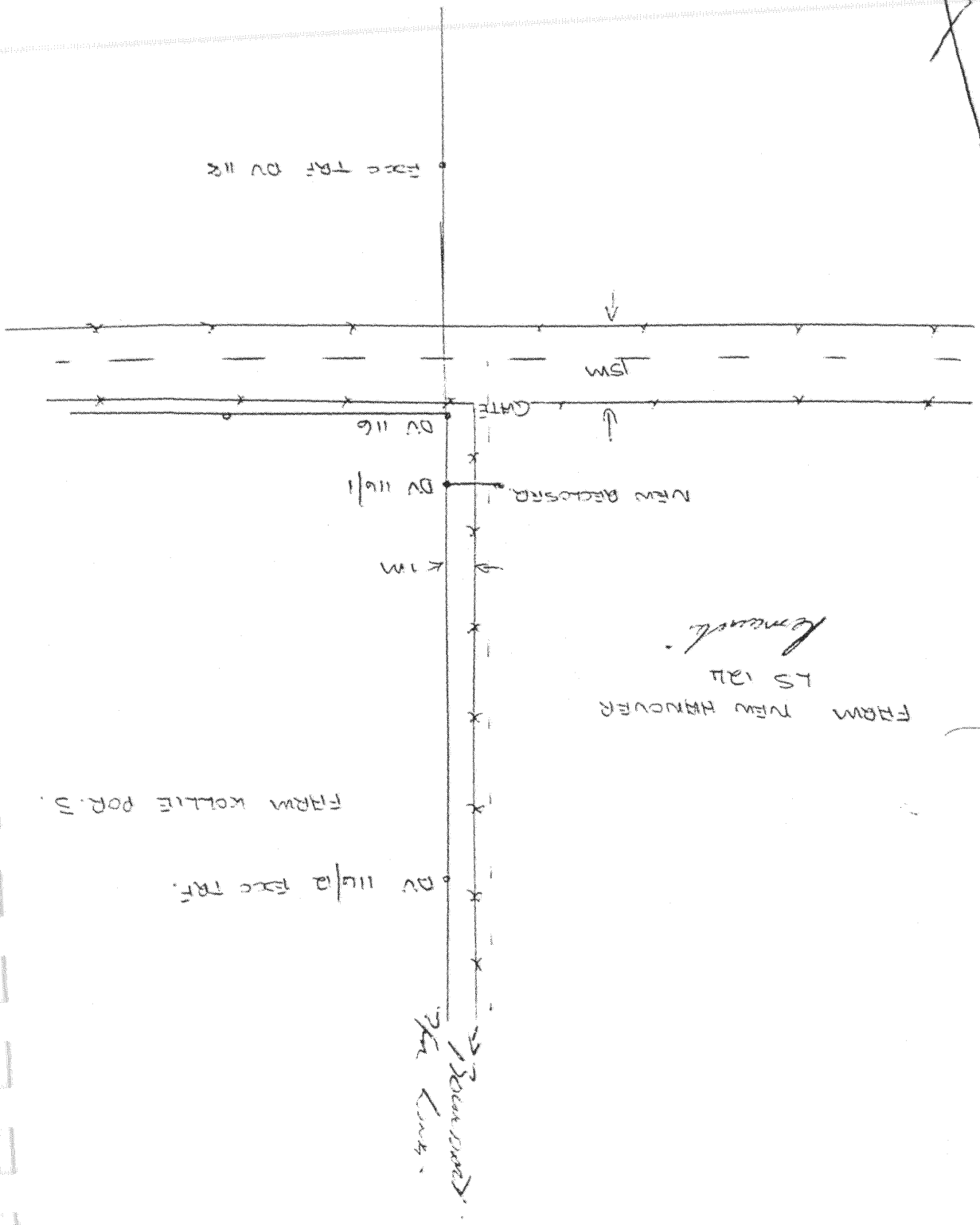
P.O. BOX 12452
BENDOR 0699
TEL. 082 899 8529
FAX. (015) 297 3081

FEEDER: VIVO 22 kV	CUSTOMER: Eskom
PROJECT NO: DV116/1 RECLOSER	PROPERTY: KLEIN COLLIE 123 LS PTN 3
CONDUCTOR: NA	
LENGTH OF LINE: NA km.	COMPILATION: 2329 AD - N
SURVEYOR: A RANDALL	SCALE: 1 : 1000
DRAUGHTSPERSON: A RANDALL	PAGE: 1 OF 1

LITS

M.

[Handwritten scribbles]



FARM NEW HARNOVER
LS 1211
FARM

FARM KOLLIE POR. 3.

DV 116/2 EDC TRF.

K 1M

DV 116/1
NEW RECSRD.

DV 116
GATE

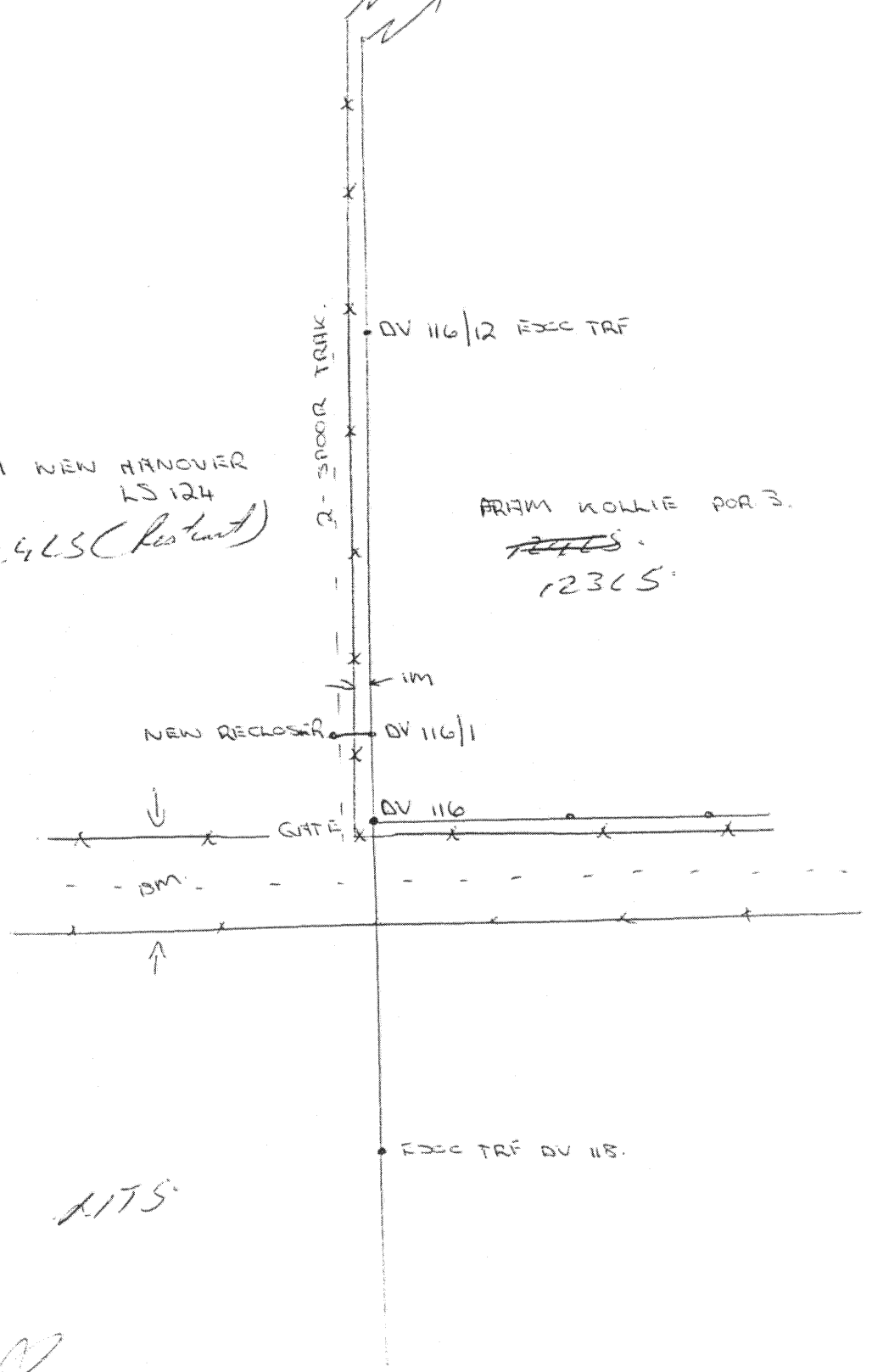
FARM TRF DV 112

[Handwritten note]
Boundary
for LITS.

from Beasport
to line

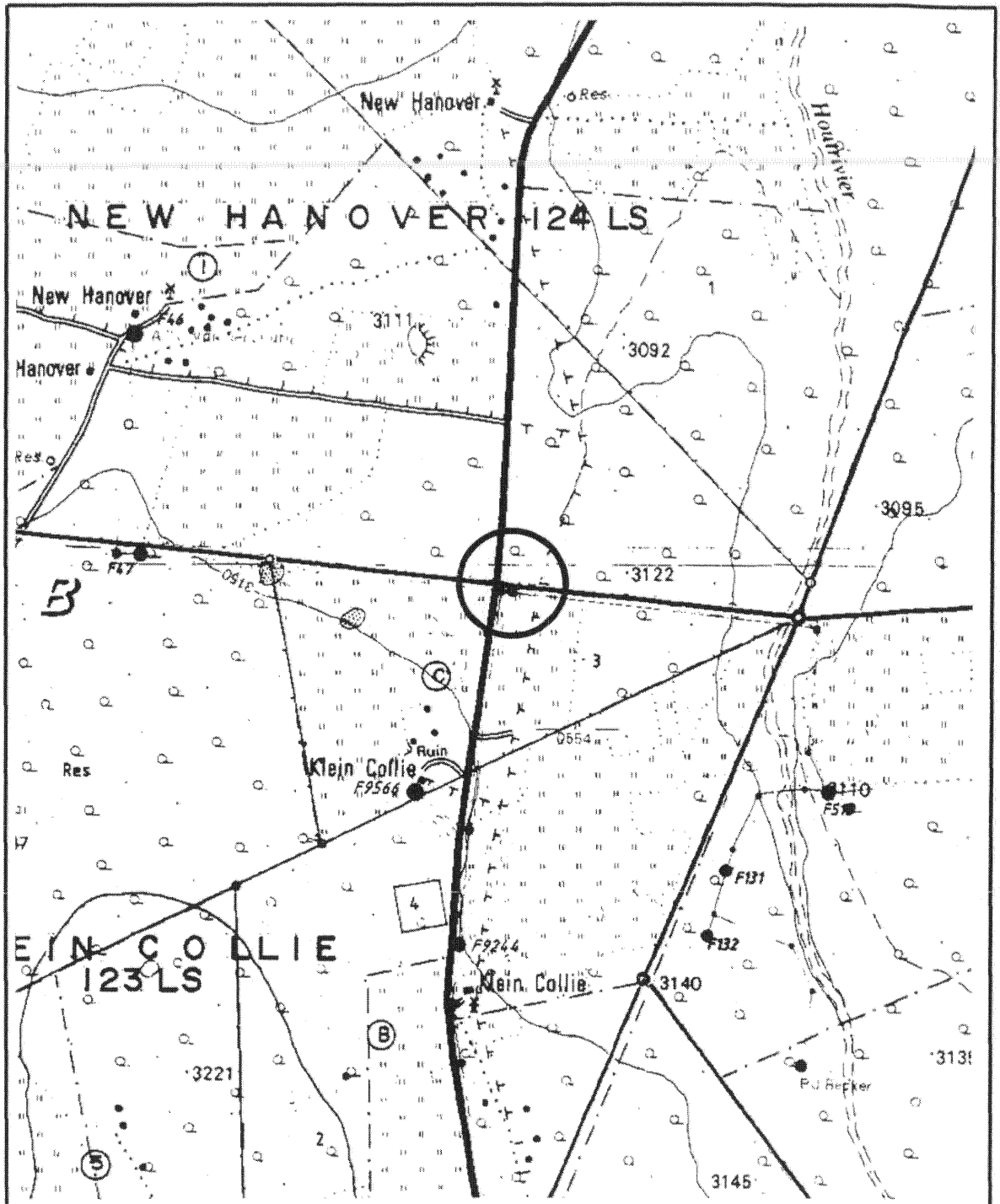
FARM NEW HANOVER
LS 124
124LS (restant)

FARM KOLLIE POR 3.
~~124LS~~
123LS



1175

[Handwritten signature]



ROUTEPLAN



	PLAN NO.	FEEDER: VIVO 22 kV
	2329	CLIENT: ESKOM
	AD - N	PROJECT NO: DV116/1 RECLOSER
		SCALE: 1:25 000
		AREA: DENDRON



CC Reg. No.: 2005/104586/23 | Tax Reg. No.: 9333/565/15/7P | VAT Reg. No.: 4580215085

<p>PoloKwane Suite No. 4, Eurasia Building 91 Hans Van Rensburg PoloKwane, 0700</p> <p>Postal Address Suite 345, PostNet Private Bag X6307 PoloKwane, 0700</p> <p>+27(0) 15 297 8065 +27(0) 15 297 0059</p>	<p>Nelspruit 7 Riverside Gardens Nelspruit, 1200</p> <p>Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p>+27(0) 82 925 9397 +27(0) 15 297 0059</p>	<p>eThekweni 42 Burlington Drive Westville, 3630</p> <p>Postal Address P.O. Box 213 Westville, 3630</p> <p>+27(0) 83 613 6530 +27(0) 86 655 2634</p>
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hossa@etekomsa.net

DATE: 06 December 2006

**SCOPING REPORT
HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

FEEDER: MOSSIEFONTEIN 11KV	CUSTOMER: EJ ERASMUS
PROJECT NO: 06PTB67790	PROPERTY: PTN1 DALMADA AH PLOT 171
LENGTH OF LINE:	MAP REFERENCE: 2329 DC-S SCALE : 1: 1000
CO-ORDINATES:	T-OFF: -54183.60 (Y) 2624059.10 (X) TERMINAL: -54339.60 (Y) 2641285.12 (X)

SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed work involves the replacement of 50 kVA in-line with a 100 kVA TRF Out-of-Line and the installation of 2 meter boxes
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involves installation on existing powerlines.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary-

..... Principal Investigator/Chief Archaeologist
Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).

BASKOPPIE 997 LS Portion 46



Boundary Fenced

Existing 50 kVA TRF in Line
(Replace with 100 kVA TRF Out Of Line)
Install 2 x Meterboxes(2 Clients)
ZMF 31/3

Existing Line

Boundary Fenced

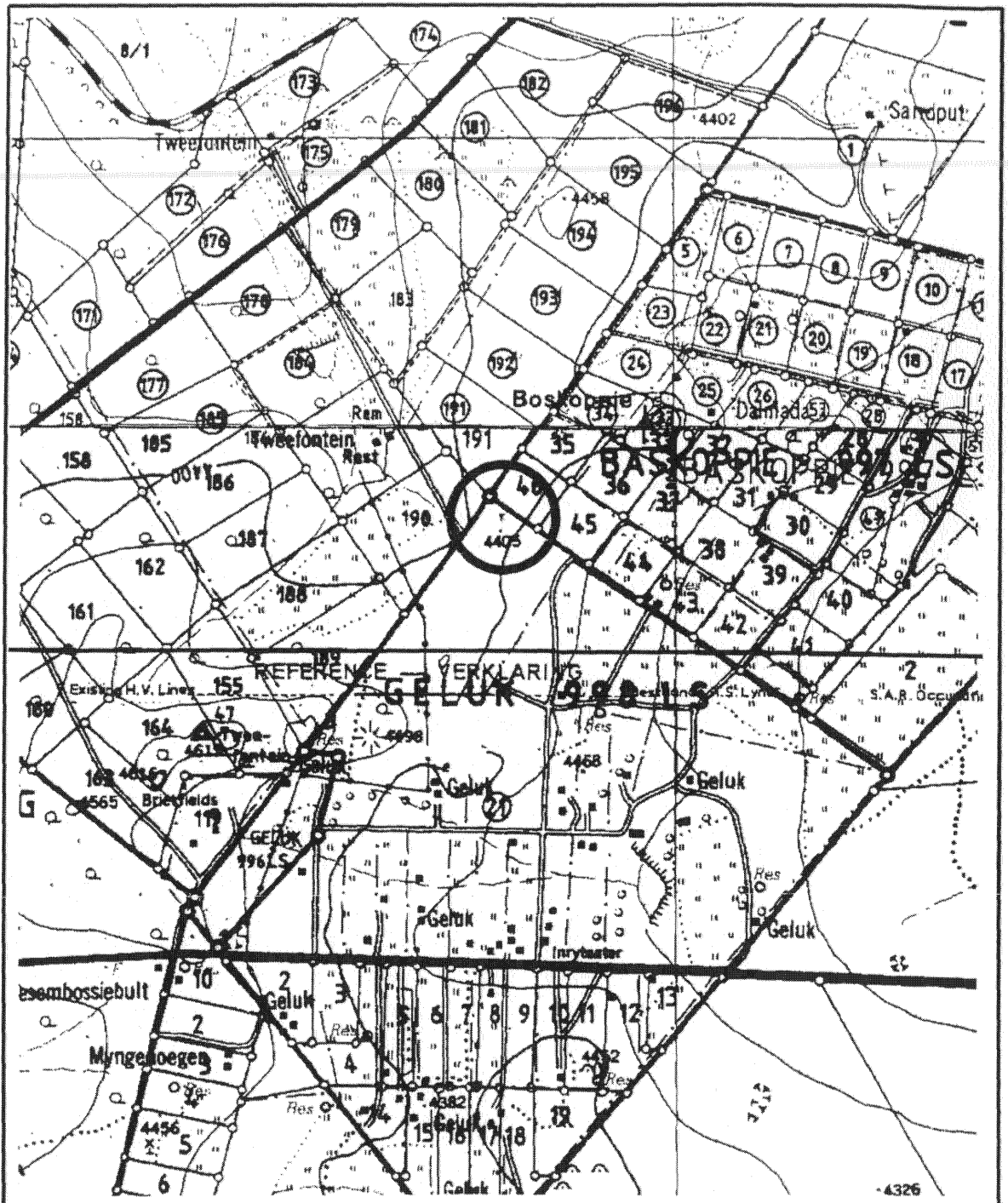
Dalmada AH Plot 171 Ptn 1

No Bushclearing Available


LJCC ENGINEERING SURVEY

P.O. BOX 12452
BENDOR 0699
TEL. 082 899 8529
FAX. (015) 297 3081

FEEDER: MOSSIEFONTEIN 11 kV	CUSTOMER: EJ ERASMUS
PROJECT NO: 06PTB967790	PROPERTY: PTN1 DALMADA AH PLOT 171
CONDUCTOR: NA	
LENGTH OF LINE: NA TUL km.	COMPILATION: 2329 DC - S
SURVEYOR: A RANDALL	SCALE: 1 : 1000
DRAUGHTSPERSON: A RANDALL	PAGE: <u>1</u> OF <u>1</u>



ROUTEPLAN

	PLAN NO.	FEEDER: MOSSIEFONTEIN 11 kV
	2329	CLIENT: EJ ERASMUS
	DC - S	PROJECT NO: 06PTB96779
		SCALE: 1 : 25 000
		AREA: POLOKWANE

Annexure D2:SPREADSHEET FORMAT EXAMPLE

Datum / System	LO	ProjectNo	Customer	Feeder Code	Surveyor	Pole No	Description	Structure Type	Equipment	Y	X	Z	Survey Date
WGS84	29	06PTB96779	EJ Erasmus	ZMF	A Randall	ZMF31/3	Ex Pole	TRF	None	-54183.60	2642059.10		2006/06/12
WGS84	29	08PTB96779	EJ Erasmus	ZMF	A Randall	ZMF31	Ex Pole	T Off	None	-54337.60	2642166.12		2006/06/12
WGS84	29	06PTB96779	EJ Erasmus	ZMF	A Randall	ZMF32	Ex Pole	Bend	None	-54339.60	2642185.12		2006/06/12



CC Reg. No.: 2003104586/23 | Tax Reg. No.: 8333/565/15/7P | VAT Reg. No.: 4580215096

<p>Polokwane <small>Limpopo</small> Suite No. 4, Eurasia Building 91 Hans Van Rensburg Polokwane, 0700</p> <p>Postal Address Suite 345, PostNet Private Bag X9307 Polokwane, 0700</p> <p>+27(0) 15 297 8066 +27(0) 15 297 0059</p>	<p>Nelspruit <small>Mpumalanga</small> 7 Riverside Gardens Nelspruit, 1200</p> <p>Postal Address Suite 44, PostNet Private Bag X11326 Nelspruit, 1200</p> <p>+27(0) 82 923 9397 +27(0) 15 297 0059</p>	<p>eThekweni <small>KwaZulu Natal</small> 42 Burlington Drive Westville, 3630</p> <p>Postal Address P.O. Box 213 Westville, 3630</p> <p>+27(0) 83 613 6530 +27(0) 86 655 2634</p>
---	--	--

hessa5@telkomso.net www.telkomso.net

DATE: 06 December 2006

**SCOPING REPORT
 HERITAGE RESOURCE IMPACT ASSESSMENT**

CLIENT: ESKOM NORTHERN REGION ENGINEERING/DISTRIBUTION DIVISION (POLOKWANE)

PROJECT DETAILS:

FEEDER: ENKELBOS 11kv	CUSTOMER: M PUTTER
PROJECT NO: 06PTB95570	PROPERTY: DOORBULT 624 LS PTN
LENGTH OF LINE: 0.238 km	MAP REFERENCE: 2329 CD-N SCALE : 1: 2500
CO-ORDINATES:	T-OFF: -50217.12 (Y) 2634827.4 (X) TERMINAL: -50402.65 (Y) 2634729.1 (X)

SENSETIVE AREAS

DESCRIPTION OF POWER LINE ROUTE	The proposed work involves the replacement of TRF on existing line
HISTORICAL SITES:	None
ARCHAEOLOGICAL REMAINS:	No archaeological remains were identified
BURIAL GROUND/ GRAVES	None were identified
MONUMENTS	PROVINCIAL: No Monuments are in affected area NATIONAL: No Monuments are in affected area
NATURAL/CULTURAL HERITAGE MONUMENTS	No natural or cultural resources are affected
LANDMARKS	None identified
SIGNIFICANCE:	No cultural heritage resources within the affected area.
POTENTIAL IMPACTS	No impact anticipated since work involves installation of recloser and work is not covered under the NHRA Act 25 of 1999 Sec 38.
RECOMMENDATIONS	No further mitigation study necessary for heritage resources
HERITAGE MONITORING	Not necessary- work is not listed under the NHRA Act 25 of 1999 Sec 38.

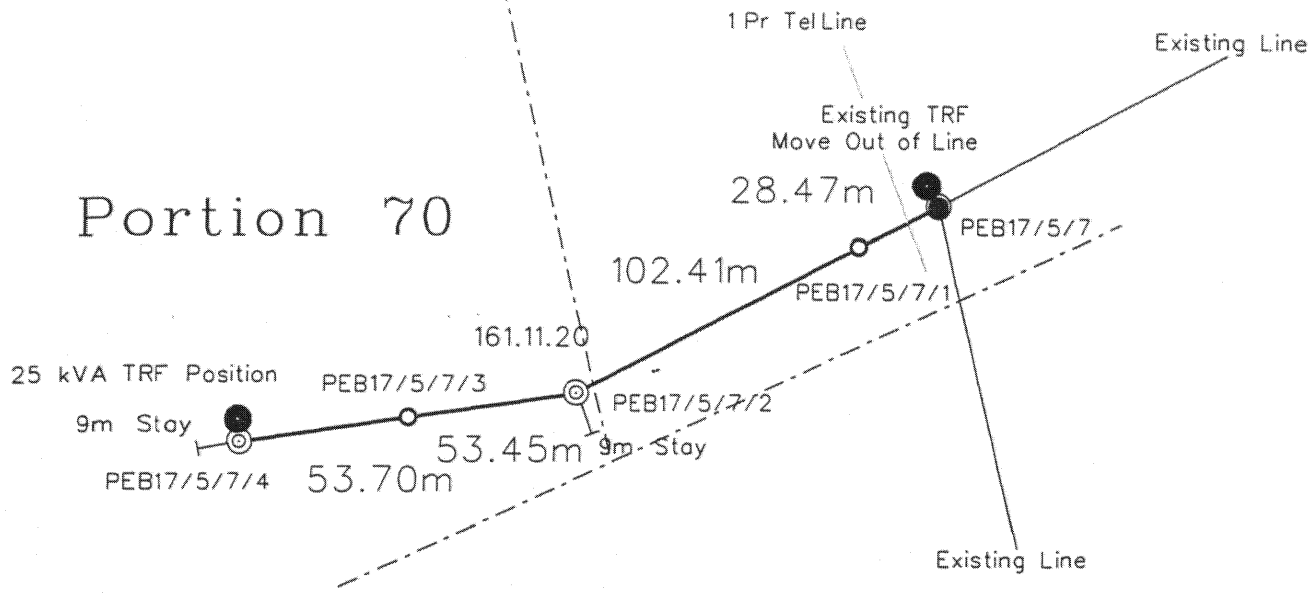
..... Principal Investigator/Chief Archaeologist
 Dr. McEDWARD MURIMBIKA (PhD. [Wits], MPhil. [Bergen], Grad. Dipl., [Brussels], BA Hons. BA [UZ]).



DOORNBULT 624 LS

Portion 71

Portion 70




LJCC ENGINEERING SURVEY

P.O. BOX 12452
 BENDOR 0699
 TEL. 082 899 8529
 FAX. (015) 297 3081

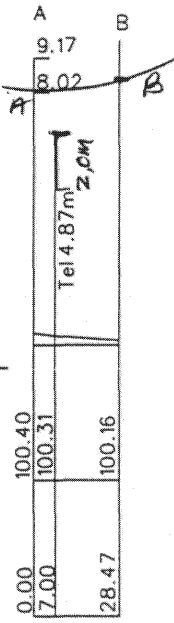
FEEDER: ENKELBOS 11 kV	CUSTOMER: M PUTTER
PROJECT NO: 06PTB95570	PROPERTY: DOORNBULT 624 LS PTN 70
CONDUCTOR: FOX	
LENGTH OF LINE: 0.238 km.	COMPILATION: 2329 CD - N
SURVEYOR: A RANDALL	SCALE: 1: 2500
DRAUGHTSPERSON: A RANDALL	PAGE: <u>1</u> OF <u>2</u>

PROFILE OF Telephone _____ CROSSING
 ROAD NO. NA _____
 FEEDER: ENKELBOS 11 kV _____
 PROJECT: 06PTB95570 _____
 CLIENT: M PUTTER _____
 OCCUPATION NO. _____
 SCALE HOR. 1:2500
 VER. 1:250
 CONDUCTOR: FOX _____
 SURVEYED BY: A RANDALL _____

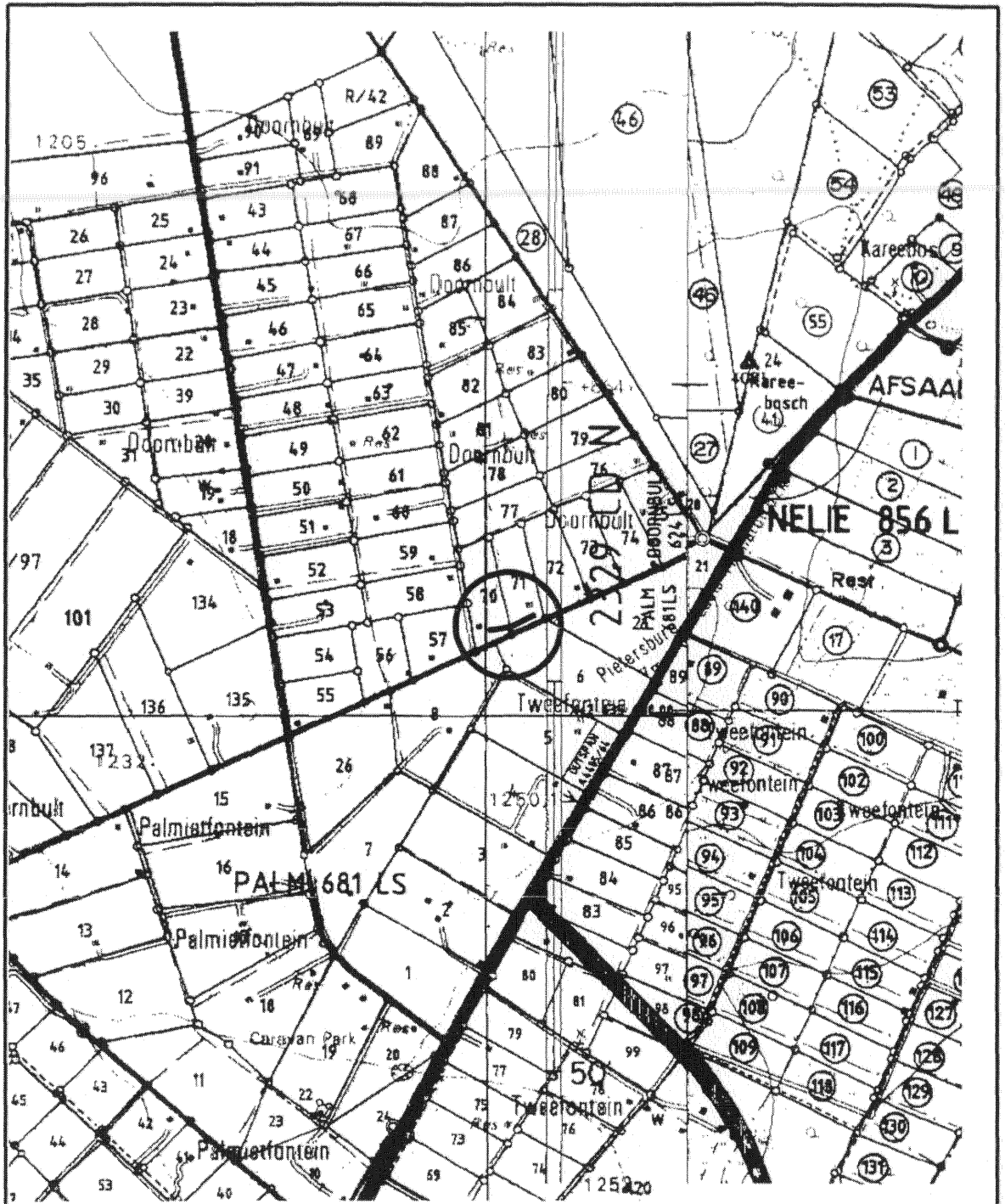
HOT CURVE: _____
 ATTACHMENT HEIGHT
 A- 8,02 [BOTTOM EXIST COND.]
 B- 8,60 [NEW POLE BOTTL COND.]
 C- _____
 D- _____

TEMPLATED BY: J. RAMBEADJ
 DATE: 20/06/2006


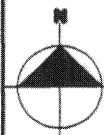
DATUM • 100.00 _____



OSU17/5/7
 1 Pr TelLine
 OSU17/5/7/1



ROUTEPLAN



	PLAN NO.	FEEDER: ENKELBOS 11 kV
	2329	CLIENT: M PUTTER
	CD - N	PROJECT NO: 06PTB95570
		SCALE: 1:25 000
		AREA: POLOKWANE

Annexure D2:SPREADSHEET FORMAT EXAMPLE

Datum / System	LO	ProjectNo	Customer	Feeder Code	Surveyor	Pole No	Description	Structure Type	Equipment	Y	X	Z	Survey Date
WGS84	29	06PTB95570	M Putter	PEB	A Randall	PEB17/5/7	Ex Pole	T Off	TRF	-50217.12	2634827.4		2006/06/19
WGS84	29	06PTB95570	M Putter	PEB	A Randall	PEB17/5/7/1	New Pole	Intermediate	None	-50191.8	2634840.4		2006/06/19
WGS84	29	06PTB95570	M Putter	PEB	A Randall	PEB17/5/7/2	New Pole	Bend	None	-50100.65	2634887.1		2006/06/19
WGS84	29	06PTB95570	M Putter	PEB	A Randall	PEB17/5/7/3	New Pole	Intermediate	None	-50047.77	2634894.9		2006/06/19
WGS84	29	06PTB95570	M Putter	PEB	A Randall	PEB17/5/7/4	New Pole	TRF	None	-49994.62	2634902.7		2006/06/19
WGS84	29	06PTB95570	M Putter	PEB	A Randall	PEB17/5/4	Ex Pole	Bend	None	-50268.65	2635055.1		2006/06/19
WGS84	29	06PTB95570	M Putter	PEB	A Randall	PEB17/5/10	Ex Pole	TRF	None	-50402.65	2634729.1		2006/06/19