



Basic assessment report in terms of the  
Environmental Impact Assessment Regulations, 2010, promulgated in terms of the National  
Environmental Management Act, 1998(Act No. 107 of 1998), as amended.

File Reference Number:	(For applicant / EAP to complete) 17/2/3/GS-84
Project Title:	The establishment of a telecommunication mast – T7073 Brakfontein
Name of Responsible Official:	Mr. Bheki Mndawe

NEAS Reference Number:	(For official use only)
Date Received:	

**Kindly note that:**

1. Required information must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. Tables can be extended as each space is filled with typing.
2. Where applicable **black out** the boxes that are not applicable in the form.
3. An incomplete report may be returned to the applicant for revision.
4. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
5. All reports (draft and final) must be submitted to the Department at the address of the relevant **DISTRICT OFFICE** given below or by delivery thereof to the relevant **DISTRICT OFFICE**. Should the reports not be submitted at the relevant district office, they will not be considered.
6. No faxed or e-mailed reports will be accepted.
7. One copy of the draft version of this report must be submitted to the relevant district office. The case officer may request more than one copy in certain circumstances.
8. **Copies of the draft report must be submitted to the relevant State Departments / Organs of State for comment.** In order to give effect to Regulation 56(7), proof of submission/delivery of the draft documents to the State Departments / Organs of State must be attached to the draft version of this report.
9. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
10. All specialist reports must be appended to this document, and all specialists must complete a declaration of independence, which is obtainable from the Department.

## SECTION A: BACKGROUND INFORMATION

<b>Project applicant:</b>	MTN (Pty) Ltd		
<b>Trading name (if any):</b>	MTN (Pty) Ltd		
<b>Contact person:</b>	Ms. Maria van Tonder		
<b>Physical address:</b>	Building 1, Commerce Square, 39 Rivonia Road, Sandton		
<b>Postal address:</b>	-		
<b>Postal code:</b>	-	<b>Cell:</b>	<b>083 209 1169</b>
<b>Telephone:</b>	-	<b>Fax:</b>	<b>011 911 5460</b>
<b>E-mail:</b>	Vanton_m@mtn.co.za		

<b>Environmental Assessment Practitioner:</b>	Torbiose Solutions cc		
<b>Contact person:</b>	Monica Niehof		
<b>Postal address:</b>	P.O. Box 32017, Totiusdal		
<b>Postal code:</b>	<b>0134</b>	<b>Cell:</b>	<b>072 607 8719</b>
<b>Telephone:</b>	<b>(012) 804 1504</b>	<b>Fax:</b>	<b>0866900441 / 0866900468</b>
<b>E-mail:</b>	admin@torbiosesolutions.co.za		
<b>Qualifications:</b>	10 Years Environmental Impact Assessment evaluations		
<b>Professional affiliations (if any):</b>	-		

## SECTION B: DETAILED DESCRIPTION OF THE PROPOSED ACTIVITY

Describe the activity, which is being applied for, in detail. The description must include the size of the proposed activity (or in the case of linear activities, the length) and the size of the area that will be transformed by the activity.

**Regulation 546 Activity 3: Construction of a 54m high lattice mast painted red and white with antennae and a 81m<sup>2</sup> MTN (Pty) Ltd telecommunication base station with equipment containers enclosed by a 2,4 m high steel palisade fence on Portion 12 of the Farm Brakfontein 522 IS.**

## SECTION C: PROPERTY/SITE DESCRIPTION

Provide a full description of the preferred site alternative (farm name and number, portion number, registration division, erf number etc.):

**Portion 12 of the Farm Brakfontein 522 IS**

Indicate the position of the activity using the latitude and longitude of the centre point of the preferred site alternative. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection. The position of alternative sites must be indicated in Section B of this document.

Latitude (S):		Longitude (E):	
26°	59.475'	29°	36.847'

**In the case of linear activities:**

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Latitude (S):		Longitude (E):	
o	′	o	′
o	′	o	′
o	′	o	′

### SITE OR ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as an appendix to this document.

The site or route plans must be at least A3 and must include the following:

- 6.1 a reference no / layout plan no., date, and a legend / land use table
- 6.2 the scale of the plan which must be at least a scale of 1:2000;
- 6.3 the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 6.4 the exact position of each element of the application as well as any other structures on the site;
- 6.5 the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 6.6 all indigenous trees taller than 1.8 metres and all vegetation of conservation concern (protected, endemic and/or red data species);
- 6.8 servitudes indicating the purpose of the servitude;
- 6.9 sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
  - watercourses and wetlands;
  - the 1:100 year flood line;
  - ridges;
  - cultural and historical features;
- 6.9 10 metre contour intervals

### SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached as an appendix to this form.

### FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 as an appendix for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

## SECTION D: BASIC ASSESSMENT REPORT

Prepare a basic assessment report that complies with Regulation 22 of the Environmental Impact Assessment Regulations, 2010. The basic assessment report must be attached to this form and must contain all the information that is necessary for the competent authority to consider the application and to reach a decision contemplated in Regulation 25, and must include:

(Checklist  
for official  
use only)

1. A description of the environment that may be affected by the proposed activity and the manner in which the geographical, physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity.	
2. An identification of all legislation and guidelines that have been considered in the preparation of the basic assessment report.	
3. Details of the public participation process conducted in terms of Regulation 21(2)(a) in connection with the application, including – (i) the steps that were taken to notify potentially interested and affected parties of the proposed application; (ii) proof that notice boards, advertisements and notices notifying potentially interested and affected parties of the proposed application have been displayed, placed or given; (iii) a list of all persons, organisations and organs of state that were registered in terms of regulation 55 as interested and affected parties in relation to the application; and (iv) a summary of the issues raised by interested and affected parties, the date of receipt of and the response of the EAP to those issues;	
4. A description of the need and desirability of the proposed activity;	
5. A description of any identified alternatives to the proposed activity that are feasible and reasonable, including the advantages and disadvantages that the proposed activity or alternatives will have on the environment and on the community that may be affected by the activity;	
6. A description and assessment of the significance of any environmental impacts, including— (i) cumulative impacts, that may occur as a result of the undertaking of the activity or identified alternatives or as a result of any construction, erection or decommissioning associated with the undertaking of the activity; (ii) the nature of the impact; (iii) the extent and duration of the impact; (iv) the probability of the impact occurring; (v) the degree to which the impact can be reversed; (vi) the degree to which the impact may cause irreplaceable loss of resources; and (vii) the degree to which the impact can be mitigated;	
7. Any environmental management and mitigation measures proposed by the EAP;	
8. Any inputs and recommendations made by specialists to the extent that may be necessary;	
9. A draft environmental management programme containing the aspects contemplated in regulation 33;	
10. A description of any assumptions, uncertainties and gaps in	



knowledge;	
11. A reasoned opinion as to whether the activity should or should not be authorised, and if the opinion is that it should be authorised, any conditions that should be made in respect of that authorisation	
12. Any representations, and comments received in connection with the application or the basic assessment report;	
13. The minutes of any meetings held by the EAP with interested and affected parties and other role players which record the views of the participants;	
14. Any responses by the EAP to those representations, comments and views;	
15. Any specific information required by the competent authority; and	
16. Any other matters required in terms of sections 24(4)(a) and (b) of the Act.	

**The basic assessment report must take into account -**

- (a) any relevant guidelines; and
- (b) any departmental policies, environmental management instruments and other decision making instruments that have been developed or adopted by the competent authority in respect of the kind of activity which is the subject of the application.

\* In terms of Regulation 22(4), the EAP managing the application must provide the competent authority with detailed, written proof of an investigation as required by section 24(4)(b)(i) of the Act and motivation if no reasonable or feasible alternatives, as contemplated in subregulation 22(2)(h), exist.

Have reasonable and feasible alternatives been identified, described and assessed?	<input checked="" type="checkbox"/>	<b>NO</b>
If NO, the motivation and investigation required in terms of Regulation 22(4) must be attached as an Appendix to this document – <b><i>Please refer to Appendix G6</i></b>		

**1. A DESCRIPTION OF THE ENVIRONMENT**

This section describes the environment that may be affected by the proposed activity and the manner in which the geographical, physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity in terms of *Regulation 22 sub-regulation 2 (d) of the EIA Regulations, 2010*.

**1.1 PHYSICAL ENVIRONMENT**

**Gradient of the Site**

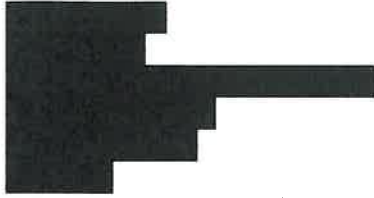
Indicate the general gradient of the site.

**Alternative S1:**

<b>Flat</b>	1:50	1:20	1:15	1:10	1:7,5	<b>Steeper than</b>
	1:20	1:15	1:10	1:7,5	1:5	

## Location in landscape

Indicate the landform(s) that best describes the site:



### 2.7 Undulating plain / low hills



## Groundwater, Soil and Geological stability of the site

Is the site(s) located on any of the following (tick the appropriate boxes)?

### Alternative S1:

Shallow water table (less than 1.5m deep)	YES	NO
Dolomite, sinkhole or doline areas	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO
Any other unstable soil or geological feature	YES	NO
An area sensitive to erosion	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. (Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted).

## 1.2 BIOLOGICAL ENVIRONMENT - Alternative S1:

### Groundcover

Indicate the types of groundcover present on the site:

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld <sup>E</sup> Very disturbed overgrazed.	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an "E" is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise.

## 1.3 SOCIO-ECONOMIC ENVIRONMENT

### Land use character of surrounding area

Indicate land uses and/or prominent features that does currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

- 1.3.1 Natural area
- 1.3.2 Low density residential
- 1.3.3 Medium density residential
- 1.3.4 High density residential
- 1.3.5 Informal residential<sup>A</sup>
- 1.3.6 Retail commercial & warehousing
- 1.3.7 Light industrial
- 1.3.8 Medium industrial<sup>AN</sup>
- 1.3.9 Heavy industrial<sup>AN</sup>
- 1.3.10 Power station
- 1.3.11 Office/consulting room
- 1.3.12 Military or police base/station/compound
- 1.3.13 Spoil heap or slimes dam<sup>A</sup>
- 1.3.14 Quarry, sand or borrow pit
- 1.3.15 Dam or reservoir
- 1.3.16 Hospital/medical centre
- 1.3.17 School
- 1.3.18 Tertiary education facility
- 1.3.19 Church
- 1.3.20 Old age home
- 1.3.21 Sewage treatment plant<sup>A</sup>
- 1.3.22 Train station or shunting yard<sup>N</sup>
- 1.3.23 Railway line<sup>N</sup>
- 1.3.24 Major road (4 lanes or more)<sup>N</sup>
- 1.3.25 Airport<sup>N</sup>
- 1.3.26 Harbour
- 1.3.27 Sport facilities

- 1.3.28 Golf course
- 1.3.29 Polo fields
- 1.3.30 Filling station<sup>H</sup>
- 1.3.31 Landfill or waste treatment site
- 1.3.32 Plantation
- 1.3.33 Agriculture
- 1.3.34 River, stream or wetland
- 1.3.35 Nature conservation area
- 1.3.36 Mountain, koppie or ridge
- 1.3.37 Museum
- 1.3.38 Historical building
- 1.3.39 Protected Area
- 1.3.40 Graveyard
- 1.3.41 Archaeological site
- 1.3.42 Other land uses (describe) – Farmland

If any of the boxes marked with an "N" are ticked, how will this impact / be impacted upon by the proposed activity? **No**

If any of the boxes marked with an "An" are ticked, how will this impact / be impacted upon by the proposed activity? **No**

If YES, specify and explain:

If YES, specify:

If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity. **No**

If YES, specify and explain:

If YES, specify:

**Waste, effluent, emission and noise management**

**(a) Solid waste management**

Will the activity produce solid construction waste during the construction/initiation phase?

YES	NO
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If yes, what estimated quantity will be produced per month?

2m <sup>3</sup> (6 weeks construction period only)
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How will the construction solid waste be disposed of (describe)?

**Loaded and transported by a suitable, roadworthy commercial vehicle to the nearest registered landfill site.**

Where will the construction solid waste be disposed of (describe)?

**At a suitable registered landfill site within the immediate area.**

Will the activity produce solid waste during its operational phase?

YES	NO
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If yes, what estimated quantity will be produced per month?

m <sup>3</sup>
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How will the solid waste be disposed of (describe)?

-

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

-

If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

YES	NO
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If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility?

YES	NO
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If yes, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

**(b) Liquid effluent**

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

YES	NO
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If yes, what estimated quantity will be produced per month?

m <sup>3</sup>
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Will the activity produce any effluent that will be treated and/or disposed of on site?

YES	NO
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If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility?

YES	NO
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If yes, provide the particulars of the facility:

Facility name:	-		
Contact person:	-		
Postal address:	-		
Postal code:	-		
Telephone:	Cell:	-	
E-mail:	Fax:	-	

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

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**(c) Emissions into the atmosphere**

Will the activity release emissions into the atmosphere?

YES	NO
YES	NO

If yes, is it controlled by any legislation of any sphere of government?

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the emissions in terms of type and concentration:

**Non-ionised electromagnetic fields with power density < 10W/m<sup>2</sup> (Department of Health Guidelines based on International Commission on Non-Ionising Radiation Protection (ICNIRP) and World Health Organisation (WHO) guidelines.**

**(d) Generation of noise**

Will the activity generate noise?

YES	NO
YES	NO

If yes, is it controlled by any legislation of any sphere of government?

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the noise in terms of type and level:

**Minimum noise generation will emanate from the installed air conditioners at a <60dB noise level. The level of noise generation is well within the acceptable norm and will not cause a disturbance to the surrounding environment.**

**(e) Water Use**

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es)

municipal	water board	groundwater	river, stream, dam or lake	other	<b>the activity will not use water</b>
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate

the volume that will be extracted per month:

litres	YES	NO
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Does the activity require a water use permit from the Department of Water Affairs?

If yes, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this application if it has been submitted.

**(f) Energy Efficiency**

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

**High technological mobile telecommunication operating systems are in principle designed for minimum, cost effective energy consumption in order to preserve resources and to optimise the financial yield generated by the base station.**

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

**Alternative energy sources have not been taken into account in the design of the activity.**



## 1.4 CULTURAL ENVIRONMENT

### Cultural/Historical Features

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or palaeontological sites, on or close (within 20m) to the site?	YES	NO
	Uncertain	
If YES, explain:		
If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.		
Briefly explain the findings of the specialist:		
Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO
If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.		

## 2. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES – IN TERMS OF Regulation 22 sub-regulation 2 (e) of the EIA Regulations, 2010

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline:	Administering authority:	Date:
<b>National Environmental Management Act (NEMA) No. 107 of 1998 &amp; related regulations &amp; guidelines</b>	<b>Mpumalanga Province Department of Economic Development, Environment and Tourism</b>	<b>27/11/1998</b>
<b>Civil Aviation Act, 2009 (Act No. 13 of 2009)</b>	<b>South African Civil Aviation Authority</b>	<b>2009</b>
<b>Approval in terms of town planning schemes and/or National Building Regulations</b>	<b>Gert Sibande District Municipality (Lekwa Local Municipality)</b>	<b>Unknown</b>
<b>Occupational Health and Safety Act (No. 85 of 1993)</b>	<b>Department of Labour</b>	<b>1993</b>
<b>National Veld and Forest Fire Act (No. 101 of 1998)</b>	<b>Department of Water and Environmental Affairs</b>	<b>1998</b>
<b>National Heritage Resources Act (No. 25 of 1999)</b>	<b>South African Heritage Resources Agency</b>	<b>1999</b>

### 3. PUBLIC PARTICIPATION – IN TERMS OF *Regulation 22 sub-regulation 2 (f) of the EIA Regulations, 2010*

The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by—

- (a) fixing a notice board (of a size at least 60cm by 42cm; and must display the required information in lettering and in a format as may be determined by the competent authority) at a place conspicuous to the public at the boundary or on the fence of—
  - (i) the site where the activity to which the application relates is or is to be undertaken; and
  - (ii) any alternative site mentioned in the application;
- (b) giving written notice to—
  - (i) the owner or person in control of that land if the applicant is not the owner or person in control of the land;
  - (ii) the occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iii) owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iv) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
  - (v) the municipality which has jurisdiction in the area;
  - (vi) any organ of state having jurisdiction in respect of any aspect of the activity; and
  - (vii) any other party as required by the competent authority;
- (c) placing an advertisement in—
  - (i) one local newspaper; or
  - (ii) any official *Gazette* that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- (d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or local municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official *Gazette* referred to in subregulation 54(c)(ii); and
- (e) using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person is desiring of but unable to participate in the process due to—
  - (i) illiteracy;
  - (ii) disability; or
  - (iii) any other disadvantage.

#### 3.1 Content of Advertisements and Notices

A notice board, advertisement or notices must:

- (a) indicate the details of the application which is subjected to public participation; and
- (b) state—

- (i) that the application has been submitted to the competent authority in terms of these Regulations, as the case may be;
- (ii) whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation;
- (iii) the nature and location of the activity to which the application relates;
- (iv) where further information on the application or activity can be obtained; and
- (iv) the manner in which and the person to whom representations in respect of the application may be made.

### **3.2 Placement of Advertisements and Notices**

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the competent authority in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of the EIA regulations.

Advertisements and notices must make provision for all alternatives.

### **3.3 Determination of Appropriate Measures**

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

### **3.4 Comments and response report**

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to this application. The comments and response report must be attached under Appendix E.

### **3.5 Authority Participation**

**Please note that a complete list of all organs of state and or any other applicable authority with their contact details must be appended to the basic assessment report or scoping report, whichever is applicable.**

Authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input.

List of authorities informed:

<b>South African Heritage Resources Agency (SAHRA)</b> <b>Lekwa Local Municipality</b> <b>Gert Sibande District Municipality</b> <b>Mpumalanga Tourism and Parks Agency (MTPA)</b>
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List of authorities from whom comments have been received:

None
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### 3.6 Consultation with other Stakeholders

Note that, for linear activities, or where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that subregulation to the extent and in the manner as may be agreed to by the competent authority.

Proof of any such agreement must be provided, where applicable.

Has any comment been received from stakeholders?

YES	NO
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If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

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## 4. NEED AND DESIRABILITY– IN TERMS OF *Regulation 22 sub-regulation 2 (g) of the EIA Regulations, 2010*

### ACTIVITY MOTIVATION

#### 1(a) Socio-economic value of the activity

What is the expected capital value of the activity on completion?

R 500 000
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What is the expected yearly income that will be generated by or as a result of the activity?

Unknown
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Will the activity contribute to service infrastructure?

YES	NO
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Is the activity a public amenity?

YES	NO
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How many new employment opportunities will be created in the development phase of the activity?

0
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What is the expected value of the employment opportunities during the development phase?

R0
----

What percentage of this will accrue to previously disadvantaged individuals?

0%
----

How many permanent new employment opportunities will be created during the operational phase of the activity?

0
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What is the expected current value of the employment opportunities during the first 10 years?

R0
----

What percentage of this will accrue to previously disadvantaged individuals?

0%
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#### (b) Need and desirability of the activity

Motivate and explain the need and desirability of the activity (including demand for the activity):

<b>NEED:</b>			
1.	Was the relevant provincial planning department involved in the application?	YES	NO

2.	Does the proposed land use fall within the relevant provincial planning framework?	YES	NO
3.	<p>If the answer to questions 1 and / or 2 was NO, please provide further motivation / explanation:</p> <p><b>Cellular telecommunication technology is an integral part of modern daily life and licensed cellular telecommunication service operators have an obligation in terms of their license agreements, as stipulated by national government, to provide the services throughout South Africa within the allocated bandwidth spectrum. The cellular telecommunication user base is still increasing (quantitative growth) and users must be enabled to choose the services rendered by any of the licensed operators anywhere in South Africa (choice and availability). The expansion of service types and content (content &amp; technology growth) furthermore requires continuous equipment and network fine-tuning, upgrades and expansion. The user base also expects a continuous quality service to be provided and therefore network capacity and capabilities are under constant review to maintain or improve quality coverage (qualitative growth).</b></p> <p><b>MTN (Pty) Ltd network and radio planners have identified an essential requirement in terms of the above objectives in the immediate surroundings of the planned base station in this area. MTN (Pty) Ltd is committed to preventing the proliferation of telecommunication installations and the sharing of the infrastructure by other telecommunication service providers is promoted wherever possible and existing structures will be utilized if such supports and is suitable for the establishment of a required base station.</b></p>		

<b>DESIRABILITY:</b>			
1.	Does the proposed land use / development fit the surrounding area?	YES	NO
2.	Does the proposed land use / development conform to the relevant structure plans, SDF and planning visions for the area?	YES	NO
3.	Will the benefits of the proposed land use / development outweigh the negative impacts of it?	YES	NO
4.	<p>If the answer to any of the questions 1-3 was NO, please provide further motivation / explanation:</p> <p>-</p>		
5.	Will the proposed land use / development impact on the sense of place?	YES	NO
6.	Will the proposed land use / development set a precedent?	YES	NO
7.	Will any person's rights be affected by the proposed land use / development?	YES	NO
8.	Will the proposed land use / development compromise the "urban edge"?	YES	NO
9.	<p>If the answer to any of the question 5-8 was YES, please provide further motivation / explanation.</p> <p>-</p>		

**5. ALTERNATIVES– IN TERMS OF Regulation 22 sub-regulation 2 (h) of the EIA Regulations, 2010**

**FEASIBLE AND REASONABLE ALTERNATIVES – Please refer to the motivation that no feasible and reasonable alternatives exists for this particular activity attached in Appendix G of this Basic Assessment Report.**

**“alternatives”**, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. The determination of whether site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

**5.1 ACTIVITY POSITION**

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

List alternative sites, if applicable.

<b>Alternative:</b>	<b>Latitude (S):</b>		<b>Longitude (E):</b>	
Alternative S1 <sup>1</sup>	26°	59.475'	29°	36.847'

**In the case of linear activities:**

<b>Alternative:</b>	<b>Latitude (S):</b>		<b>Longitude (E):</b>	
Alternative S1 (preferred or only route alternative)				
• Starting point of the activity	0	'	0	'
• Middle/Additional point of the activity	0	'	0	'
• End point of the activity	0	'	0	'
Alternative S2 (if any)				
• Starting point of the activity	0	'	0	'

<sup>1</sup> "Alternative S" refer to site alternatives.



- Middle/Additional point of the activity
  - End point of the activity
- Alternative S3 (if any)
- Starting point of the activity
  - Middle/Additional point of the activity
  - End point of the activity

o	€	o	€
o	€	o	€

o	€	o	€
o	€	o	€
o	€	o	€

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

## 5.2 PHYSICAL SIZE OF THE ACTIVITY

Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

**Alternative:**  
Alternative S1

**Size of the activity:**  
81m<sup>2</sup>

or, for linear activities:

**Length of the activity:**

**Alternative:**  
Alternative A1<sup>2</sup> (preferred activity alternative)  
Alternative A2 (if any)  
Alternative A3 (if any)

m
m
m

Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

**Alternative:**  
Alternative S1

**Size of the site/servitude:**  
142.8598 H

## 5.3 SITE ACCESS

~~Does ready access to the site exist?~~

YES	NO
-	

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

-
---

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

## 5.4 SITE OR ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document.

The site or route plans must indicate the following:

<sup>2</sup> "Alternative A" refers to activity, process, technology or other alternatives.

- 5.4.1 the scale of the plan which must be at least a scale of 1:500;
- 5.4.2 the property boundaries and numbers of all the properties within 50 metres of the site;
- 5.4.3 the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 5.4.4 the exact position of each element of the application as well as any other structures on the site;
- 5.4.5 the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 5.4.6 all trees and shrubs taller than 1.8 metres;
- 5.4.7 walls and fencing including details of the height and construction material;
- 5.4.8 servitudes indicating the purpose of the servitude;
- 5.4.9 sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
  - rivers;
  - the 1:100 year flood line (where available or where it is required by DWA);
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation (even if it is degraded or invested with alien species);
- 5.4.10 for gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- 5.4.11 the positions from where photographs of the site were taken.

## 5.5 SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this form. It must be supplemented with additional photographs of relevant features on the site, if applicable.

## 5.6 FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

## 5.7 ADVANTAGES AND DISADVANTAGES OF THE PROPOSAL AND ALTERNATIVES

5.7.1 ADVANTAGES:			
1.	Will the land use / development have any benefits for society in general?	YES	NO
2.	Explain: <b>The immediate benefits of the activity to society in general can be summarized as follows:</b> <ul style="list-style-type: none"> <li>• <b>Increased and improved national MTN coverage footprint enabling users to communicate on the MTN network wherever they are.</b></li> <li>• <b>Additional fulfilment of one of government's objectives to ensure the establishment of national communication network grids and services</b></li> </ul>		

	<b>as part of a sustainable economic growth pattern.</b>		
	-		
	-		
3.	Will the land use / development have any benefits for the local communities where it will be located?	YES	NO
4.	<b>Explain:</b> <b>The motivation and benefits to society in general above apply to the local community directly. It will furthermore ensure that the communication capability and capacity of the local community will keep pace with the ever growing and availability of communication facilities nationwide.</b>		
	-		
	-		
<b>5.7.2 DISADVANTAGES:</b>			
1.	Will the land use / development have any disadvantages for society in general?	YES	NO
2.	<b>Explain: The area has a very low population density and the proposed activity will also be located on a farm that is not frequented by many people, therefore the possible negative impacts such health concerns and visual impact have no significance for society in general and in the EAP's opinion is not a disadvantage to them.</b>		
	-		
	-		
3.	Will the land use / development have any disadvantages for the local communities where it will be located?	YES	NO
4.	<b>Explain: The area has a very low population density and the proposed activity will also be located on a farm that is not frequented by many people, therefore the possible negative impacts such health concerns and visual impact have no significance for local communities and in the EAP's opinion is not a disadvantage to them.</b>		
	-		
	-		

## **6 & 7. IMPACT ASSESSMENT AND MITIGATION MEASURES – IN TERMS OF Regulation 22 sub-regulation 2 (i) – (j) of the EIA Regulations, 2010**

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2010, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

### **ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES**

List the main issues raised by interested and affected parties.

-
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Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report as Annexure E):

-
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## **IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES**

List the potential direct, indirect and cumulative property/activity/design/technology/operational alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed.

### **IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN PHASE**

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase, including impacts relating to the choice of site alternatives.

#### **Alternative S1:**

##### ***Direct impacts:***

##### **PHYSICAL:**

- 1. Safety aspects: The following safety aspects were taken into consideration in planning the base station:**
  - **Position & height in terms of official airports, helipads and air traffic routes as determined by SACAA. Mitigated in terms of the SACAA prescribing day & night markings.**
  - **General installation safety for the general public, owners, technicians etc.: Engineering services incorporated in the design of the mast, foundations and other design and construction safety aspects of the base station;**
  - **Base station to be surrounded with a 2.4m high galvanised steel palisade fence to prevent unauthorised access to the base station area and mast.**
- 2. Visual impact: Evaluation of structure type, height & position, taking into consideration the purpose and objective of the planned activity in terms of mobile telecommunication coverage area and quality of coverage. New base station with 54m lattice telecommunication mast painted red and white selected as most appropriate based on:**
  - **Investigation of sharing existing infrastructure: No existing facility or infrastructure within range that can fulfil the required capacity in terms of the coverage objectives.**
  - **54m height required to achieve maximum coverage objectives in the specific environment and therefore reducing the need for additional base stations to achieve/maintain the same coverage within the coverage target area;**
  - **Facility sharing capacity incorporated in design to make provision for and promote the sharing of infrastructure in order to prevent the proliferation of masts;**
  - **Lattice type structure most suitable to fulfil the coverage objectives of the base station due to the coverage range required and the high flexibility of utilising the mast height for varying antennae installation configurations due to the specific characteristics of the area;**
  - **Lattice design mast painted red & white provides maximum mitigation with maximum visibility from the air to prevent aircraft accidents (day & night markings prescribed by the SACAA for masts above 45m height). Red & white lattice mast provides low mitigation of the visual impact on the short range viewpoints from the ground due to the high visibility of**

the colour of the mast and the technical appearance of the mast structure. The population density of the area is low and therefore this impact is of very low significance. Red & white lattice mast provides high mitigation of the medium to long range visual impact from the ground due to the blending capability of the more transparent type mast against the sky background, but not maximum mitigation due to the red and white colour of the mast being visible over a longer distance.

- 2.4m high galvanised steel palisade fence to provide maximum mitigation of the short to long range visual impact of the telecommunication base station due to the blending capability with the surrounding environment and against the sky background.

**BIOLOGICAL:**

The vegetation of the study area is disturbed by agriculture and other human activities. No tall trees or sensitive vegetation will be removed from the study area.

**SOCIO-ECONOMIC:**

Site position has been determined based on the requirement to deliver mobile telecommunication signal coverage and availability within the target area enabling the residents, business entities and the general public within the area to select and maintain quality telecommunication services and connectivity via the MTN mobile telecommunication network. MTN (Pty) Ltd is obliged to fulfil their licence terms and conditions, as determined by government, in providing mobile telephony and related services on a reliable national network grid.

***Indirect impacts:***

The property coverage and development potential has been taken into consideration in selecting the position of the activity. The exact position of the activity on the property was determined, in consultation with the property owner, to minimise the possible impact on existing operations and future development plans or phases. Therefore the commercial value of the property is maintained.

Electricity will be supplied from the existing electricity grid. Minimum usage due to economical and energy efficient design.

***Cumulative impacts:***

No cumulative impacts relating to the design and planning phases are applicable.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

**Alternative S1**

1. Prescribed SACAA day and night markings.
2. Transparent lattice type mast painted red and white.
3. Galvanised steel palisade fence enclosure.
4. Provision for infrastructure sharing.

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase:

**Alternative A1**

***Direct impacts:***

There are no activity or technology alternatives for the establishment of mobile telecommunication base stations.

**Indirect impacts:**

-

**Cumulative impacts:**

-

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

**Alternative S1:**

**There are no activity or technology alternatives for the establishment of mobile telecommunication base stations.**

**No-go alternative (compulsory)**

**Direct impacts:**

Status quo.

**Indirect impacts:**

Status quo.

**Cumulative impacts:**

Status quo.

## **IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION PHASE**

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the construction phase:

**Alternative S1:**

**Direct impacts:**

Construction of the telecommunication base station will extend over a period of approximately 6 weeks only;

1. Increased activity and traffic at the property including material delivery and work team movements.
2. Minimum disruption of operations within the vicinity as the base station is located in an area with low activity.
3. Increased workplace accident risk due to the mere occurrence of the activity.
4. Creation of dust and disturbance of specific soil layers due to earthwork activities.
5. Erosion and contamination of topsoil.
6. Generation of standard building rubble & the transportation thereof to the appropriate licensed landfill site.
7. Generation of construction noise created by earthwork machinery and other applicable tooling used for the establishment of the base station.

**Indirect impacts:**

Additional waste at appropriately certified dumping site.

**Cumulative impacts:**

Construction activity.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

**Alternative S1:**

1. & 2. Specific arrangements with property owner to minimise disruption of normal activities.
3. Implement & maintain specific construction site safety measures in accordance with the applicable clauses of the OHS Act.
4. Implement specific construction measures to prevent dust e.g. regular sprinkling bare areas with water as needed.



5. Prevent and minimise construction waste generation. Transport construction waste on a regular basis to the appropriate landfill site.
6. Store topsoil separately for appropriate landscaping distribution on completion of construction. Prevent pollution and contamination and erosion of topsoil by covering it with water proof covering when experiencing rainy or windy conditions. Service construction vehicles and machinery before construction to ensure that no oil or fuel will leak onto soil.
7. Minimise noise generation to absolute minimum. Service vehicles and machinery before start of construction to ensure proper working condition. Construction activities should not be allowed outside normal working hours or on Sundays and Public Holidays.

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the construction phase:

**Alternative A1**

**Direct impacts:**

There are no activity or technology alternatives for the establishment of mobile telecommunication base stations.

**Indirect impacts:**

-

**Cumulative impacts:**

-

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

**Alternative A1:**

There are no activity or technology alternatives for the establishment of mobile telecommunication base stations.

**No-go alternative (compulsory)**

**Direct impacts:**

Status quo.

**Indirect impacts:**

Status quo.

**Cumulative impacts:**

Status quo.

**IMPACTS THAT MAY RESULT FROM THE OPERATIONAL PHASE**

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the operational phase:

**Alternative S1**

**Direct impacts:**

1. Increased electricity consumption on the existing supply grid.
2. Noise generation by air conditioning units and by backup generator if electricity supply fails.
3. Non-ionised electromagnetic fields emissions on allocated frequency.
4. Increase in potential air traffic obstacles.
5. Visual impact of the 54m lattice mast painted red and white on short, medium and long distance observation.
6. Increased mobile telecommunication network capacity.

**Indirect impacts:**

1. Minute increase in electricity generation base material usage.
2. Increased use of quality telecommunication services with the appropriate revenue increase and potential increased economic activity and financial returns.

**Cumulative impacts:**

1. Increased telecommunication infrastructure availability and quality.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

**Alternative S1**

1. Economical electricity consumption design.
2. Scheduled preventative maintenance program implementation and control.
3. Maintain level of non-ionised electromagnetic field emissions within International Commission on Non-Ionising Radiation Protection (ICNIRP) & World Health Organisation (WHO) guidelines.
4. Installation/application and maintenance of day & night markings as prescribed by SACAA to reduce potential air traffic safety impact. Civil Aviation Association application submitted. Required for all masts higher than 45m. (Refer to Appendix G5).
5. Red & white lattice mast provides low mitigation of the visual impact on the short range viewpoints due to the high visibility of the colour of the mast and its technical appearance. The population density of the area is low and therefore this impact is of very low significance. Red & white lattice mast provides high mitigation of the medium to long range visual impact due to the blending capability of the more transparent type mast against the sky background, but not maximum due to the red and white colour of the mast being visible over a longer distance.
6. 2.4m high galvanised steel palisade fence to provide maximum mitigation of the short to long range visual impact of the telecommunication base station due to the blending capability with the surrounding environment and against the sky background.

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the operational phase:

**Alternative A1**

**Direct impacts:**

There are no activity or technology alternatives for the establishment of mobile telecommunication base stations.

**Indirect impacts:**

-

**Cumulative impacts:**

-

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

**Alternative A1:**

There are no activity or technology alternatives for the establishment of mobile telecommunication base stations.

**No-go alternative (compulsory)**

**Direct impacts:**

Status quo.

**Indirect impacts:**

Status quo.

**Cumulative impacts:**

Status quo.

## IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING AND CLOSURE PHASE

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the decommissioning or closure phase:

### Alternative S1

**Direct impacts:**

1. Establishment of new mobile telecommunication infrastructure elsewhere to fill the network coverage gap caused by decommissioning.
2. Creation of waste due to decommissioning.
3. Disturbed area.

**Indirect impacts:**

Potential waste of resources.

**Cumulative impacts:**

None

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

### Alternative S1

1. Ensure planned base station fulfils planned and required network parameters i.e. prevent decommissioning.
2. If decommissioning is required the site area must be rehabilitated to its original state.

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the decommissioning and closure phase:

### Alternative A1

**There are no activity or technology alternatives for the establishment of mobile telecommunication base stations.**

**Direct impacts:**

-

**Indirect impacts:**

-

**Cumulative impacts:**

-

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

### Alternative A1

**There are no activity or technology alternatives for the establishment of mobile telecommunication base stations.**

### No-go alternative (compulsory)

**Direct impacts:**

Status quo.

**Indirect impacts:**

Status quo.

**Cumulative impacts:**

Status quo.

## ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

### Alternative S1

**The positive impact of the proposed activity will, taking into consideration the implementation of mitigating measures to minimise the negative impacts on the environment, have a positive overall impact.**

#### **Physical impacts:**

- 1. The planning & design of the telecommunication base station is considerate of operational and public demand needs and is done on the principle of minimising any negative impacts on the receiving environment.**
- 2. The negative impacts during the construction phase, as indicated earlier in the assessment report, are temporary and will not have a long term effect on the proposed development or immediate area. These impacts will last for a maximum of approximately 6 weeks only.**
- 3. The permanent visual impact of a lattice mast painted red and white is the most contributing negative impact of the proposed activity on the receiving environment. Red & white lattice mast provides low mitigation of the visual impact on the short range viewpoints due to the high visibility of the colour of the mast and the technical appearance of the mast structure. The population density of the area is low and therefore this impact is of very low significance. Red & white lattice mast provides high mitigation of the medium to long range visual impact due to the blending capability of the more transparent type mast against the sky background, but not maximum due to the red and white colour of the mast being visible over a longer distance.**
- 4. 2.4m high galvanised steel palisade fence to provide maximum mitigation of the short to long range visual impact of the telecommunication base station due to the blending capability with the surrounding environment and against the sky background.**
- 5. The site is designed for use by additional telecommunication service providers. This mitigation measure will possibly prevent the establishment of additional base stations by other operators within the immediate area.**

#### **BIOLOGICAL:**

**The vegetation of the study area is disturbed agriculture and other human activities. No tall trees or sensitive vegetation will be removed from the study area.**

#### **Socio-economic impacts:**

**The local electricity supply grid can accommodate the additional load required by the base station. The base station design requires a 3-phase electricity supply at a maximum demand of 80A.**

**No other feasible for the objective of the proposed mast exists. Motivation for exemption from assessing alternatives attached as *Appendix G6*.**

8. **ANY INPUTS AND RECOMMENDATIONS MADE BY SPECIALISTS TO THE EXTENT THAT MAY BE NECESSARY – IN TERMS OF *Regulation 22 sub-regulation 2 (k) of the EIA Regulations, 2010* - Not in the scope of this application**
9. **THE EMPR IS ATTACHED AS APPENDIX F - IN TERMS OF *Regulation 22 sub-regulation 2 (l) of the EIA Regulations, 2010***
10. **ASSUMPTIONS, UNCERTAINTIES AND GAPS IN KNOWLEDGE – IN TERMS OF *Regulation 22 sub-regulation 2 (m) of the EIA Regulations, 2010***

The information in this report is sufficient for the purposes of providing the department with sufficient information to make an informed decision to grant approval or not.

The nature of an impact study is always based on predicting the impacts of a proposed activity / development based on knowledge that can be substantiated and where there are gaps in knowledge, there are uncertainties and assumptions are also made.

There are no significant gaps in knowledge in this impact study. The only uncertainty due to a gap in knowledge in this impact study includes the health effects of non-ionised electromagnetic fields with power density  $< 10\text{W/m}^2$  emitted from telecommunication antennae, but not the listed activity i.e. the mast. The EAP is not aware of any authenticated studies existing currently and therefore we refer to the Department of Health Guidelines based on the International Commission on Non-Ionising Radiation Protection (ICNIRP) and the World Health Organisation (WHO) guidelines. According to these guidelines the non-ionised electromagnetic fields emitted by antennae mounted on telecommunication masts are well below the recommended level and is therefore improbable to have harmful effects on the health of human beings.

11. **A REASONED OPINION AS TO WHETHER THE ACTIVITY SHOULD OR SHOULD NOT BE AUTHORISED, AND IF THE OPINION IS THAT IT SHOULD BE AUTHORISED, ANY CONDITIONS THAT SHOULD BE MADE IN RESPECT OF THAT AUTHORISATION – IN TERMS OF *Regulation 22 sub-regulation 2 (n) of the EIA Regulations, 2010***

The Environmental Assessment Practitioner is of the opinion that the activity may be authorised due to:

- Should the activity not be authorised it will result in an incomplete network hampering and restricting communication quality and quantity on the network.
- The negative impacts on the surrounding environment are not significant.

Recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

1. Telecommunication base station with a 54m lattice mast *painted red and white (Alternative 1)* to be established on the Alternative 1 proposed position indicated on attached plans.
2. Measures to be implemented for the duration of the construction period to prevent unauthorised access to the construction site.

3. Dust suppression measures to be implemented during earthworks.
4. Construction only to take place within normal daytime working hours.
5. The contractor must provide chemical toilets during the construction phase.
6. Telecommunication base station to be enclosed with a 2.4m high galvanised steel palisade fence.
7. Required electricity connection point to be established in consultation with the property owner and electricity supplier.
8. Topsoil to be stored separately for appropriate landscaping distribution on completion of construction.
9. All the prevention and mitigation measures described in this report and in the EMPR must be implemented and monitored.

12. Any representations, and comments received in connection with the application or the basic assessment report;	<i>Refer to Appendix E</i>
13. The minutes of any meetings held by the EAP with interested and affected parties and other role players which record the views of the participants;	<b>No meeting was held during the public participation process.</b>
14. Any responses by the EAP to those representations, comments and views;	<i>Refer to Appendix E</i>
15. Any specific information required by the competent authority; and	<b>The EAP received no request for specific information from the department.</b>
16. Any other matters required in terms of sections 24(4)(a) and (b) of the Act.	<b>No other matters required to the EAP's knowledge.</b>

**SECTION E: CONSULTATION WITH OTHER STATE DEPARTMENTS – IN TERMS OF Regulation 22 sub-regulation 2 (f) (iii) of the EIA Regulations, 2010**

Provide a list of all State Departments / Organs of State that have been consulted and registered as interested and affected parties, and to whom draft reports have been submitted for comment. **Proof of submission / delivery of the draft report to all State Department / Organs of State must be attached to this document.**

<b>Department:</b>	<b>Lekwa Local Municipality, Environmental Management Section</b>		
<b>Contact person:</b>	<b>Mr. J Sindane</b>		
<b>Postal address:</b>	<b>P.O.Box 66, Standerton 2430</b>		
<b>Postal code:</b>	<b>2430</b>	<b>Cell:</b>	<b>-</b>
<b>Telephone:</b>	<b>(017) 712 9600</b>	<b>Fax:</b>	<b>(017) 712 6808</b>
<b>E-mail:</b>	<b>admin@lekwalm.gov.za</b>		

<b>Department:</b>	<b>Gert Sibande District Municipality</b>		
<b>Contact person:</b>	<b>Mr. M.A. Ngcobo</b>		
<b>Postal address:</b>	<b>P O Box 550, Secunda</b>		
<b>Postal code:</b>	<b>2302</b>	<b>Cell:</b>	<b>-</b>
<b>Telephone:</b>	<b>-</b>	<b>Fax:</b>	<b>(017) 631 1607</b>
<b>E-mail:</b>	<b>-</b>		



<b>Department:</b>	South African Heritage Resources Agency		
<b>Contact person:</b>	Dumisani Sibayi / Phillip Hine		
<b>Postal address:</b>	P O Box 4637, Cape Town		
<b>Postal code:</b>	8000	<b>Cell:</b>	-
<b>Telephone:</b>	(021) 462 4502	<b>Fax:</b>	(021) 462 4509
<b>E-mail:</b>	dsibayi@sahra.org.za / phine@sahra.org.za		

<b>Department:</b>	Mpumalanga Tourism and Parks Agency		
<b>Contact person:</b>	Ms. Kholofelo		
<b>Postal address:</b>	Private Bag X11338, Nelspruit		
<b>Postal code:</b>	1200	<b>Cell:</b>	-
<b>Telephone:</b>	(013) 759 5445	<b>Fax:</b>	(013) 755 4014
<b>E-mail:</b>	kholo@mtpa.co.za		

## SECTION F: APPENDICES

The following appendices must be attached to the basic assessment report as appropriate:

Appendix A: Site plan(s) – **IN TERMS OF Regulation 22 sub-regulation 2 (c) of the EIA Regulations, 2010**

Appendix B: Photographs – **IN TERMS OF Regulation 22 sub-regulation 2 (c) of the EIA Regulations, 2010**

Appendix C: Facility illustration(s) – **IN TERMS OF Regulation 22 sub-regulation 2 (c) of the EIA Regulations, 2010**

Appendix D: Specialist reports – **IN TERMS OF Regulation 22 sub-regulation 2 (k) of the EIA Regulations, 2010 – No specialist input required**

Appendix E: Comments and Response Report – **IN TERMS OF Regulation 22 sub-regulation 2 (f) (iv) and 2 (o) and (q) of the EIA Regulations, 2010**

Appendix F: Environmental Management Programme (EMPR) – **IN TERMS OF Regulation 22 sub-regulation 2 (l) of the EIA Regulations, 2010**

Appendix G: Other information

G1: Public Participation – **IN TERMS OF Regulation 22 sub-regulation 2 (f) of the EIA Regulations, 2010**

G1 – Public Participation – Proof of Site Notice

G2 – Public Participation – Proof of Written Notices to I&AP

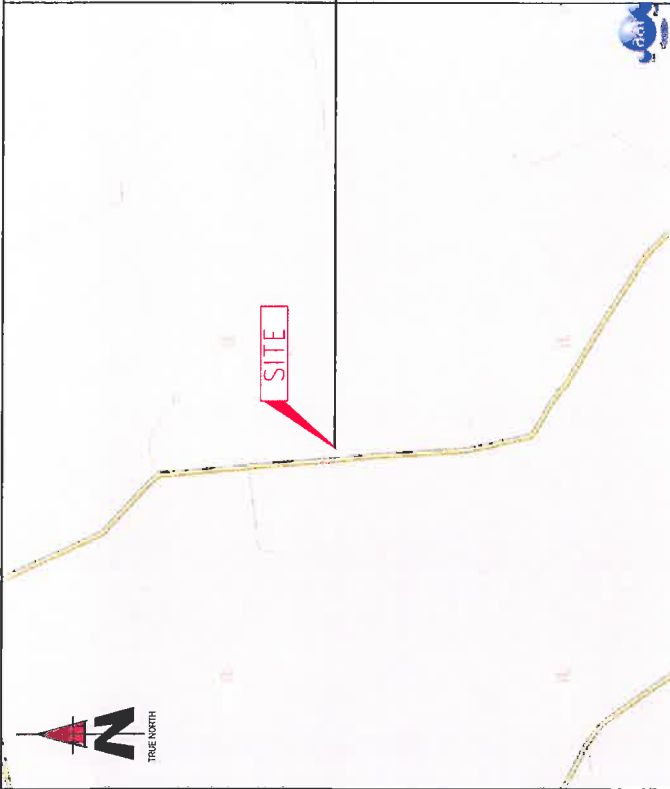
G3 – Public Participation – Proof of Newspaper Advertisement

G4 – Public Participation – Register of I&APs

G5 – South African Civil Aviation Authority Approval

**G6 – Motivation for exemption from assessing reasonable or feasible alternatives, as contemplated in subregulation 22 (2) (h) - IN TERMS OF Regulation 22 sub-regulation 4 of the EIA Regulations, 2010**

**Appendix A: Site Plans**



SITE

T7073  
BRAKFRONTEIN



13/17 Pretoria Street  
Braakfontein, Midrand Complex  
Helikid 0993  
Tel: +27 (12) 843 2990  
Fax: +27 (12) 342 9708  
Pretoria, 1601  
Private Bag 513  
Menlo Park

SITE NAME

BRAKFRONTEIN

BASE STATION NUMBER: T7073

REV	DATE	BY	DESCRIPTION
A	18/01/2012	MY	FIRST ISSUE

NOTES:

OWNER: VALLEEM ADRIAN JACOBUS LE ROUX

STRICTLY COMPANY CONFIDENTIAL

PROPERTY DESCRIPTION:  
PORTION 12 OF THE FARM BRAKFRONTEIN 522 IS

COORDINATES:  
LAT: 28° 38' 50.80" S  
LONG: 28° 38' 50.80" E

PROJECT:  
NEW 9x9m TELECOMMUNICATION BASESTATION WITH A  
54m LATTICE MAST FOR MTN (PTY) LTD

ADDRESS:  
THE FARM BRAKFRONTEIN,  
CONTAINING PORTIONS 12 AND 13 OF THE FARM  
STANDERTON AND AMERSFOORT,  
MUPUMALANGA



141 Platrand Road  
54th Precinct  
0184  
Tel: +27 (12) 843 1000/0  
Fax: +27 (12) 843 7072  
admin@ipsplanning.co.za

RFQ NO.:

84838

PROJECT NUMBER:

84813

DRAWINGS MUST NOT BE SCALED. ONLY DIMENSIONS TO BE  
USED. DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT  
OF WORK.  
ALL WORK TO BE PERFORMED ACCORDING TO MTN 9TS SITE  
INSTALLATION AND MAINTENANCE MANUAL (VERSION 10 NOVEMBER 2007)

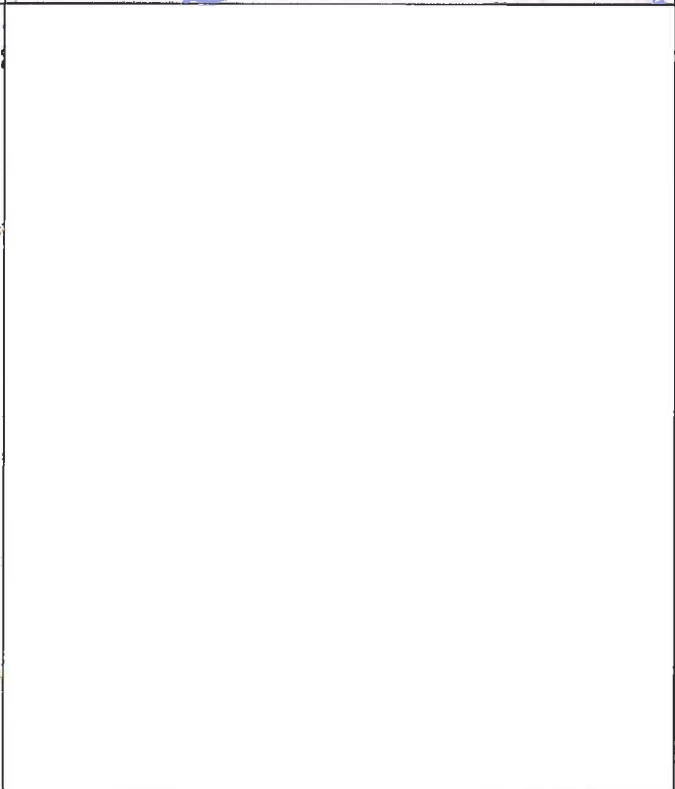
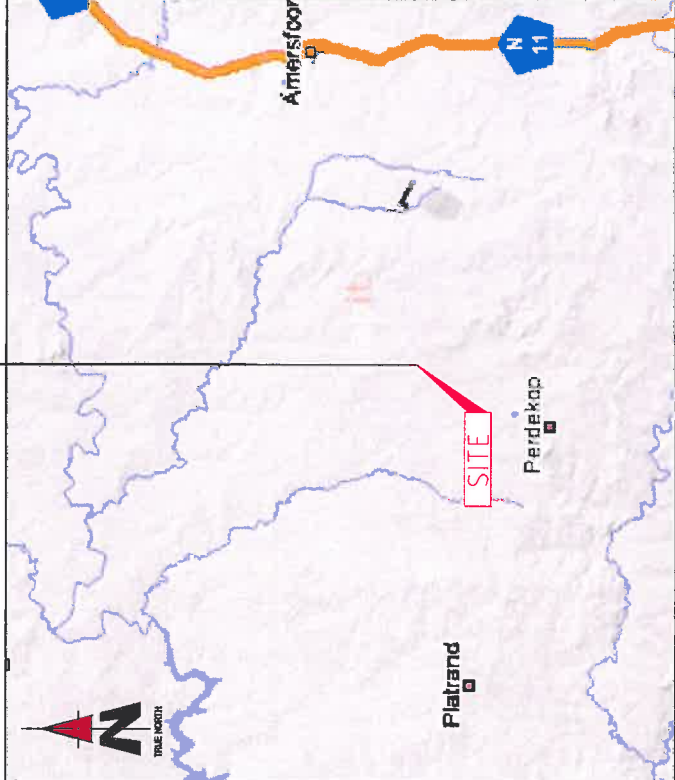
DRAWN: MELISSA YOUNG

SCALE: A1S

DATE: 18/01/2012

REF. NO: 812/T7073

LOCALITY MAP  
SHEET 1 OF 9



SITE



4577 Regional Street  
 2000 D. The Woodlands, TX 77380  
 Phone: 281.297.1101  
 Fax: 281.297.1101  
 MTN

Project Date: 1/16/12  
 Project Name: Brakfontein  
 Project No: 17073

SITE NAME: **BRAKFONTEIN**  
 BASE STATION NUMBER: **T7073**

REV	DATE	BY	DESCRIPTION
A	1/16/12	MY	FIRST ISSUE

NOTES:  
 OWNER: WILLEM ADRIAN JACOBUS LE ROUX

STRICTLY COMPANY CONFIDENTIAL  
 PORTION 12 OF THE FARM BRAKFONTEIN 522 IS

COORDINATES:  
 LAT: 28° 59' 28.50" S  
 LONG: 28° 58' 50.80" E

PROJECT:  
 NEW 800m TELECOMMUNICATION BASESTATION WITH A 54m LATTICE MAST FOR MTN (PTY) LTD

ADDRESS:  
 THE FARM BRAKFONTEIN,  
 OFF DIRT ROAD BETWEEN  
 STANDERTON AND AMERSFOORT,  
 WINDMILLKOP



414 Rustic Road  
 2114  
 Tel: +27 (12) 846 15046  
 Fax: +27 (12) 846 1072  
 info@ipsi.co.za

PROJECT NUMBER:  
 84813

DRAWN: MELISSA YOUNG  
 DATE: 1/16/12  
 SCALE: NTS

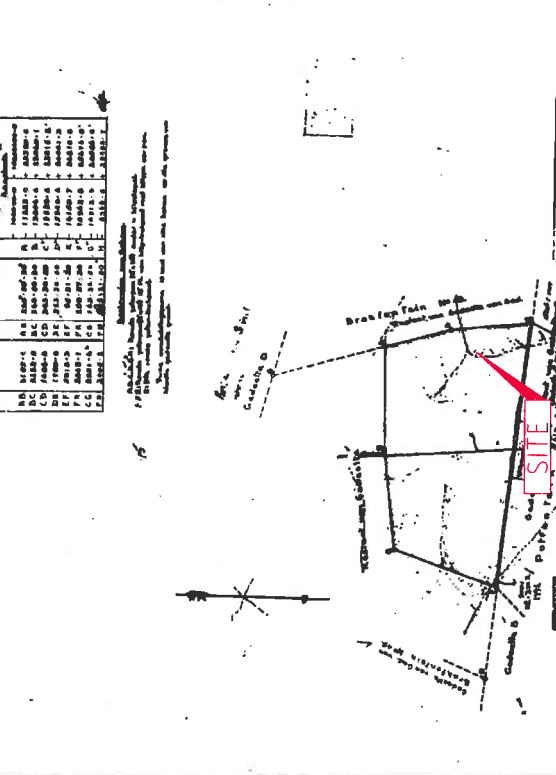
REF. NO. 812/17/073  
 REF. NO. 812/17/073

DRAWINGS MUST NOT BE SCALED. ONLY FIGURED DIMENSIONS TO BE USED. DIMENSIONS TO BE VERIFIED IN THE FIELD BEFORE COMMENCEMENT OF WORK. ALL WORK TO BE PERFORMED ACCORDING TO MTN BTS SITE INFRASTRUCTURE SPECIFICATION 800/1/001 ISSUE 1 (18 FEBRUARY 2007)

L.G. No. A 4898/444

TABLE

SITE	COORDINATES	HEIGHT	STATUS
1	11830.0	11830.0	OK
2	11830.0	11830.0	OK
3	11830.0	11830.0	OK
4	11830.0	11830.0	OK
5	11830.0	11830.0	OK
6	11830.0	11830.0	OK
7	11830.0	11830.0	OK
8	11830.0	11830.0	OK
9	11830.0	11830.0	OK
10	11830.0	11830.0	OK
11	11830.0	11830.0	OK
12	11830.0	11830.0	OK
13	11830.0	11830.0	OK
14	11830.0	11830.0	OK
15	11830.0	11830.0	OK
16	11830.0	11830.0	OK
17	11830.0	11830.0	OK
18	11830.0	11830.0	OK
19	11830.0	11830.0	OK
20	11830.0	11830.0	OK
21	11830.0	11830.0	OK
22	11830.0	11830.0	OK
23	11830.0	11830.0	OK
24	11830.0	11830.0	OK
25	11830.0	11830.0	OK
26	11830.0	11830.0	OK
27	11830.0	11830.0	OK
28	11830.0	11830.0	OK
29	11830.0	11830.0	OK
30	11830.0	11830.0	OK
31	11830.0	11830.0	OK
32	11830.0	11830.0	OK
33	11830.0	11830.0	OK
34	11830.0	11830.0	OK
35	11830.0	11830.0	OK
36	11830.0	11830.0	OK
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38	11830.0	11830.0	OK
39	11830.0	11830.0	OK
40	11830.0	11830.0	OK
41	11830.0	11830.0	OK
42	11830.0	11830.0	OK
43	11830.0	11830.0	OK
44	11830.0	11830.0	OK
45	11830.0	11830.0	OK
46	11830.0	11830.0	OK
47	11830.0	11830.0	OK
48	11830.0	11830.0	OK
49	11830.0	11830.0	OK
50	11830.0	11830.0	OK



This site is situated on the farm Brakfontein 522, which is a portion of the farm Brakfontein 522, as shown on the attached site plan. The site is situated on the farm Brakfontein 522, which is a portion of the farm Brakfontein 522, as shown on the attached site plan.

The site is situated on the farm Brakfontein 522, which is a portion of the farm Brakfontein 522, as shown on the attached site plan. The site is situated on the farm Brakfontein 522, which is a portion of the farm Brakfontein 522, as shown on the attached site plan.

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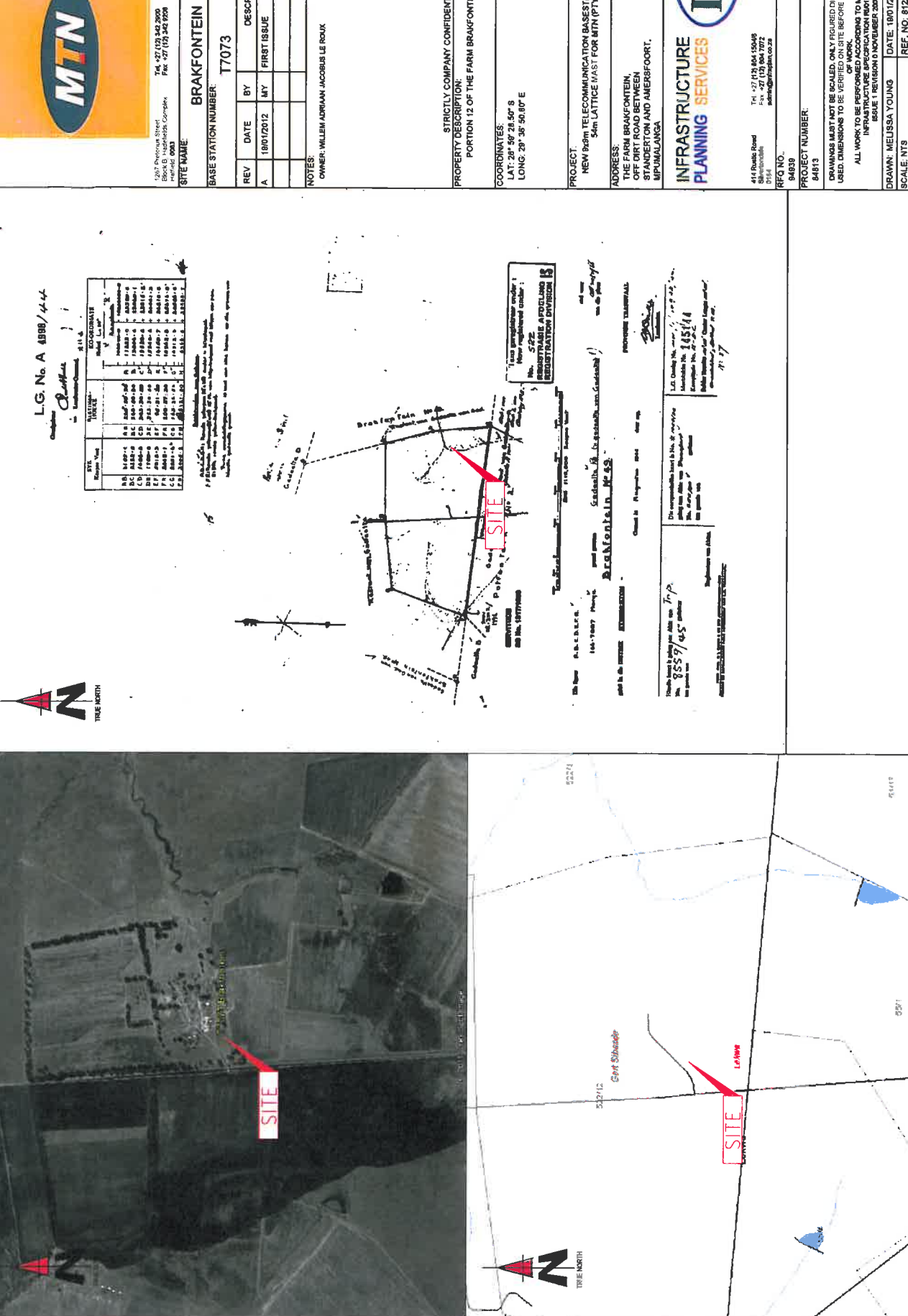
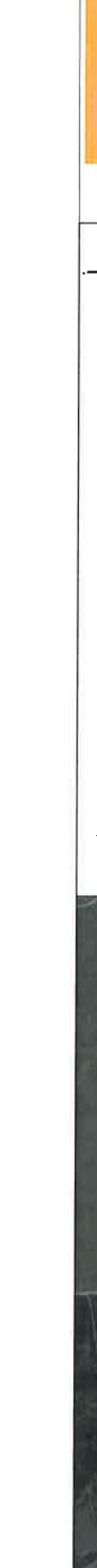
The site is situated on the farm Brakfontein 522, which is a portion of the farm Brakfontein 522, as shown on the attached site plan. The site is situated on the farm Brakfontein 522, which is a portion of the farm Brakfontein 522, as shown on the attached site plan.

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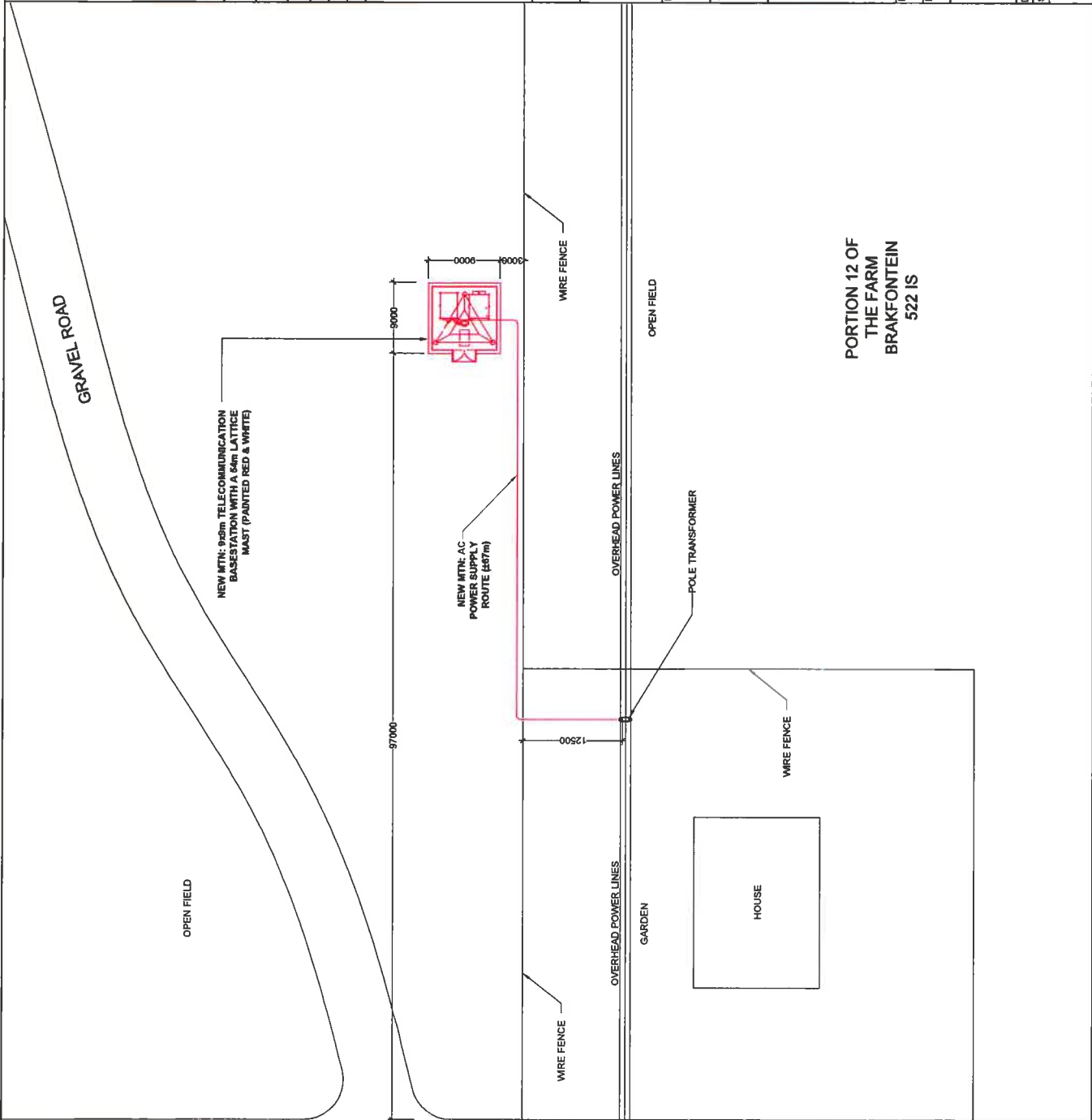
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1207 Pretoria Blvd  
 1207 Fidelity House Computer  
 Harburg, 003  
 Tel: +27 (12) 542 2000  
 Fax: +27 (12) 542 1112  
 Power Line 146  
 1207 Fidelity House  
 Harburg, 003

**SITE NAME:**  
**BRAKFOONTEIN**

**BASE STATION NUMBER:** T7073

REV	DATE	BY	DESCRIPTION
A	19/01/2012	MY	FIRST ISSUE

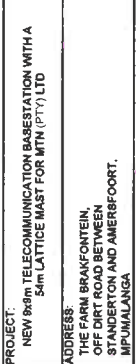
**NOTES:**  
 OWNER: WILLEM AUBREMAN JACOBUS LE ROUX

**PROPERTY DESCRIPTION:**  
 STRICTLY COMPANY CONFIDENTIAL  
 PORTION 12 OF THE FARM BRAKFOONTEIN 522 IS

**COORDINATES:**  
 LAT: 28° 58' 28.50" S  
 LONG: 29° 38' 50.80" E

**PROJECT:**  
 NEW 9x9m TELECOMMUNICATION BASESTATION WITH A 54m LATTICE MAST FOR MTN (PTY) LTD

**ADDRESS:**  
 THE FARM BRAKFOONTEIN,  
 OFF DIRT ROAD BETWEEN  
 SPURRING AND AMERFOORT,  
 MPMALANGA



414 Pueblo Road  
 1207 Fidelity House  
 Harburg, 003  
 0134  
 Tel: +27 (12) 541 1000  
 Fax: +27 (12) 542 1112  
 email: info@ipsafrica.co.za

**RFO NO.:** 94839  
**PROJECT NUMBER:** 64813

**DRAWING MUST NOT BE SCALED. ONLY DIMENSIONS TO BE USED COMPARED TO THE INFORMATION REPORT COMMENCEMENT OF WORK.**  
**ALL WORK TO BE PERFORMED ACCORDING TO MTN 6TS SITE INFRASTRUCTURE SPECIFICATION (REVISED) ISSUE 1 (VERSION 01/NOVEMBER/2007)**

**DRAWN:** MELISSA YOUNG  
**DATE:** 19/01/2012  
**SCALE:** 1:500  
**REF. NO:** 812/T7073

**SITE DEVELOPMENT PLAN**  
**SHEET 3 OF 9**



411 Phisoanane Road  
 Block 9, Maitland, Cape Town  
 Halford 083  
 Tel: +27 (0) 21 545 9200  
 Fax: +27 (0) 21 545 9208  
 Project Suite 106  
 Maitland 0712  
 Verloren Vallei

SITE NAME

**BRAKFONTEIN**

BASE STATION NUMBER: T7073

REV	DATE	BY	DESCRIPTION
A	18/01/2012	MY	FIRST ISSUE

NOTES:

OWNER: WILLEM ADRIAAN JACOBUS LE ROUX

STRICTLY COMPANY CONFIDENTIAL

PROPERTY DESCRIPTION:  
 PORTION 12 OF THE FARM BRAKFONTEIN 522 IS

COORDINATES:  
 LAT: 28° 57' 23.50" S  
 LONG: 28° 36' 50.60" E

PROJECT:  
 NEW 8x8m TELECOMMUNICATION BASESTATION WITH A  
 54m LATTICE MAST FOR MTN (PTY) LTD

ADDRESS:  
 THE FARM BRAKFONTEIN,  
 OFF DIRT ROAD BETWEEN  
 SPURRIERSDRIF AND AMERSFOORT,  
 MPUMALANGA



414 Ruyter Road  
 17th Floor  
 Sandton  
 Johannesburg  
 Tel: +27 (0) 21 004 1500  
 Fax: +27 (0) 21 004 1505  
 Email: info@ipsinfra.co.za  
 P.O. Box 30077  
 Sandton 2146  
 0114

RFQ NO.

84839

PROJECT NUMBER

64813

DRAWINGS MUST NOT BE SCALED. ONLY DIMENSIONS TO BE  
 USED. DIMENSIONS TO BE VERIFIED BEFORE COMMENCEMENT  
 OF WORK.  
 ALL WORK TO BE PERFORMED ACCORDING TO MTN ET'S SITE  
 INFRASTRUCTURE SPECIFICATION 001/01/01  
 ISSUE 1 (VERSION 1) (NOVEMBER 2007)

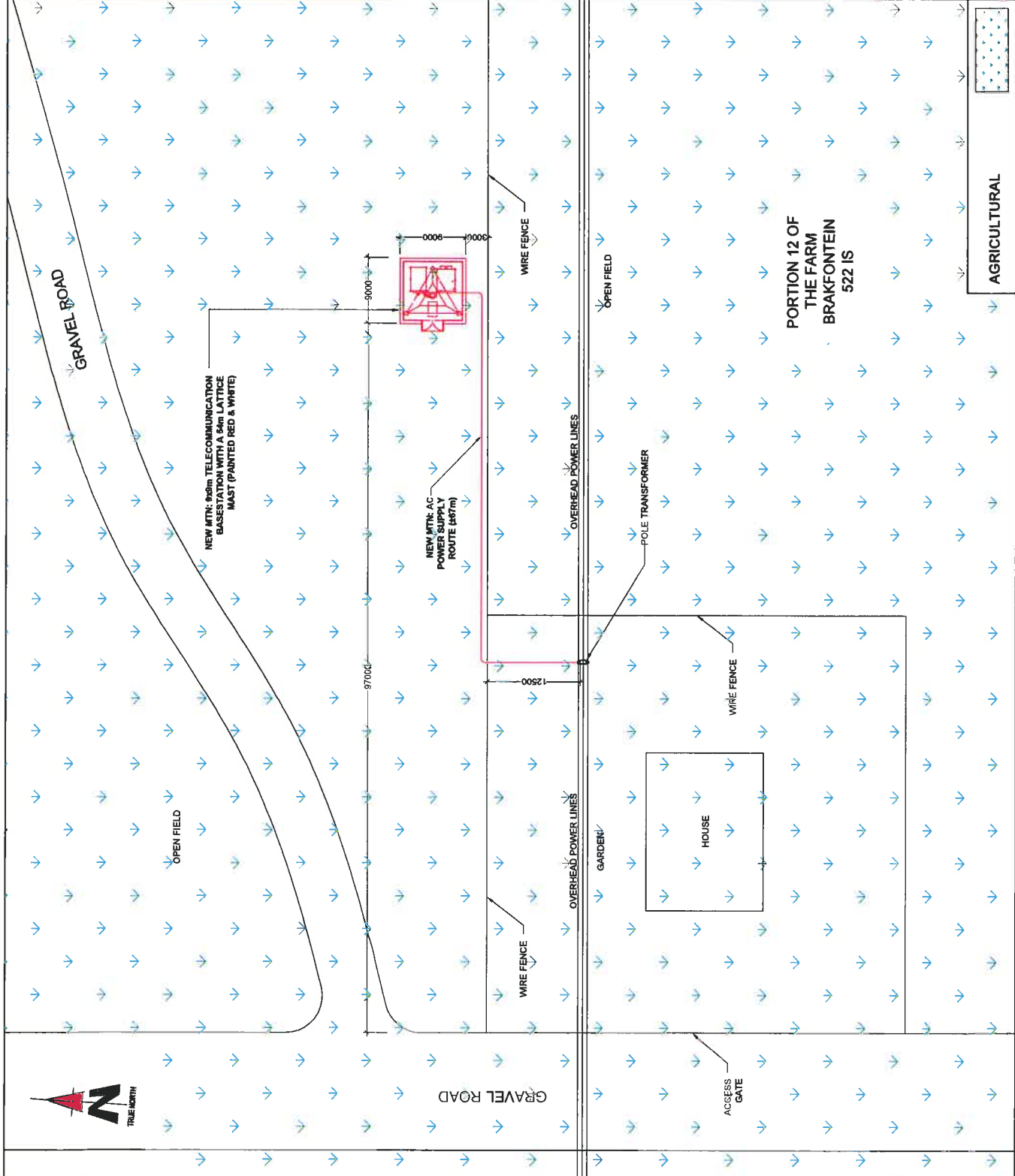
DRAWN: MELISSA YOUNG

DATE: 18/01/2012

SCALE: 1:500

REF. NO: 812/T7073

CURRENT LAND USE  
 SHEET 4 OF 9



AGRICULTURAL





1207 Pretoria Street  
 Harare, Zimbabwe  
 Harare, Zimbabwe  
 Tel: +27 (12) 642 2000  
 Fax: +27 (12) 642 2208  
 Postal Suite 146  
 Harare, Zimbabwe  
 Harare, Zimbabwe

**SITE NAME:**  
**BRAKFONTEIN**

**BASE STATION NUMBER:**  
**T7073**

REV	DATE	BY	DESCRIPTION
A	19/01/2012	MY	FIRST ISSUE

**NOTES:**  
 OWNER: MULLEN ADRIAN JACOBUS LE ROUX

STRICTLY COMPANY CONFIDENTIAL

PROPERTY DESCRIPTION:  
 PORTION 12 OF THE FARM BRAKFONTEIN 522 IS

COORDINATES:  
 LAT: 29° 59' 29.50" S  
 LONG: 28° 36' 50.80" E

PROJECT:  
 NEW 9dbm TELECOMMUNICATION BASESTATION WITH A  
 54m LATTICE MAST FOR MTN (PTY)LTD

ADDRESS:  
 THE FARM BRAKFONTEIN,  
 OFF DIRT ROAD BETWEEN  
 STANDERTON AND AMERSFOORT,  
 MPOUMALANGA



414 Rusika Road  
 Harare, Zimbabwe  
 Harare, Zimbabwe  
 Tel: +27 (12) 644 15049  
 Fax: +27 (12) 644 15052  
 Email: info@ipsinfra.com.zw

**PROJECT NUMBER:**  
**64813**

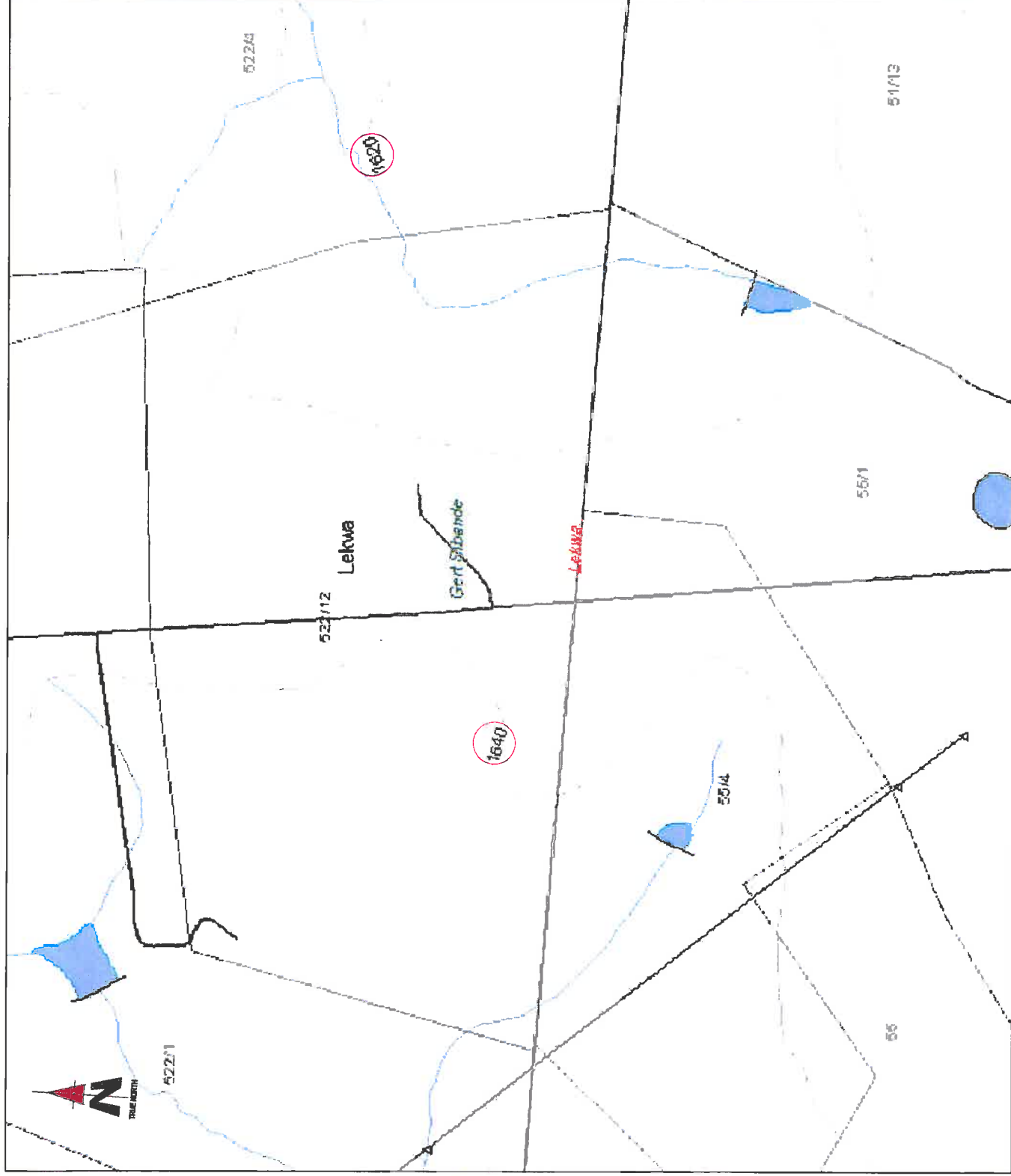
**SCALE:** NTS

**DATE:** 19/01/2012

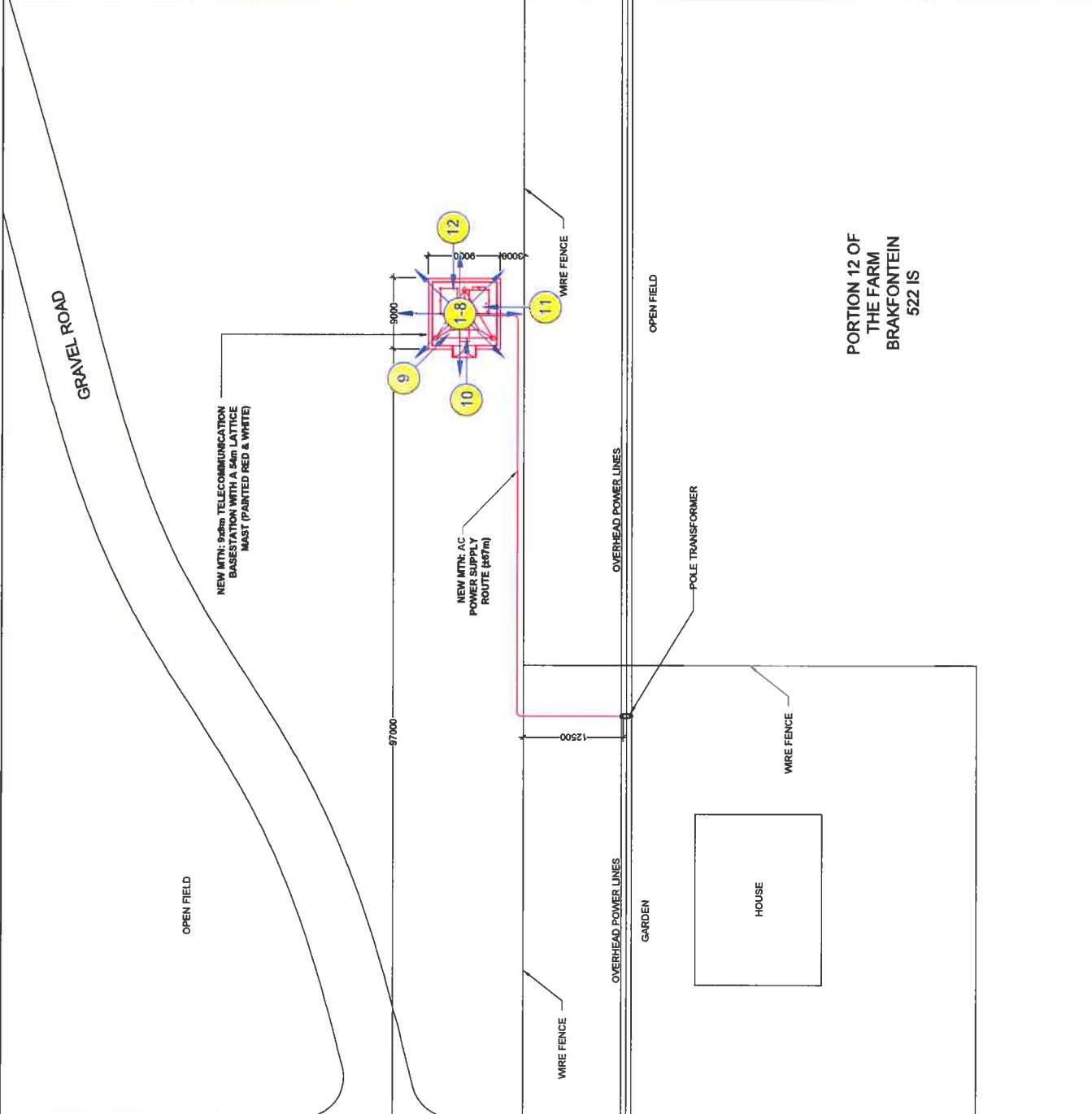
**REF. NO:** 812/17/073

**DRAWN:** MELISSA YOUNG

**CONTOUR INTERVAL:**  
**SHEET 5 OF 8**



**Appendix B: Site Photographs**



PORTION 12 OF  
THE FARM  
BRAKFOONTEIN  
522 IS



1267 Personeel Street  
Midrand, Gauteng  
1229  
Tel: +27 (0) 21 242 2000  
Fax: +27 (0) 21 242 2000  
Postal Suite 146  
Midrand, Gauteng  
1229  
Tel: +27 (0) 21 242 2000  
Fax: +27 (0) 21 242 2000

**SITE NAME:**  
BRAKFOONTEIN

**BASE STATION NUMBER:**  
T7073

REV	DATE	BY	DESCRIPTION
A	18/01/2012	MY	FIRST ISSUE

**NOTES:**  
OWNER: WILLEM ADRIAAN JACOBUS LE ROUX.

STRICTLY COMPANY CONFIDENTIAL  
PROPERTY DESCRIPTION:  
PORTION 12 OF THE FARM BRAKFOONTEIN 522 IS

**COORDINATES:**  
LAT: 28° 58' 28.50" S  
LONG: 28° 39' 50.80" E

**PROJECT:**  
NEW 5m TELECOMMUNICATION BASESTATION WITH A 5m LATTICE MAST FOR MTN (PTY) LTD

**ADDRESS:**  
THE FARM BRAKFOONTEIN,  
OFF DIRT ROAD BETWEEN  
STANDERTON AND AMERSPOORT,  
MIDRAND, GAUTENG



414 Rooda Road  
Sandton, Gauteng  
2013  
Tel: +27 (0) 21 924 8546  
Fax: +27 (0) 21 924 7072  
www.infrastructureplanning.co.za

P.O. Box 28077  
Sandton, Gauteng  
2013

**PROJECT NUMBER:**  
04813

**DRAWINGS MUST NOT BE SCALED. ONLY FIGURED DIMENSIONS TO BE USED. DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT.**  
ALL WORK TO BE PERFORMED ACCORDING TO MTN 6TS SITE INFRASTRUCTURE SPECIFICATION (R01/1/001) ISSUE 1 (REVISION 9 NOVEMBER 2007)

**DRAWN:** MELISSA YOUNG  
**DATE:** 18/01/2012  
**SCALE:** 1:500  
**REF. NO:** 612/17/073

**SITE PHOTOGRAPHS**  
SHEET 6 OF 9

# SITE PHOTOGRAPHS



**1. Panoramic view from the site direction North**



**2. Panoramic view from the site direction North East**

# SITE PHOTOGRAPHS



**3. Panoramic view from the site direction East**



**4. Panoramic view from the site direction South East**

# SITE PHOTOGRAPHS



5. Panoramic view from the site direction South



6. Panoramic view from the site direction South West



# SITE PHOTOGRAPHS



**7. Panoramic view from the site direction West**



**8. Panoramic view from the site direction North West**

# SITE PHOTOGRAPHS



**9. View on basestation position direction North**



**10. View on base station position direction East**

# SITE PHOTOGRAPHS



**11. View on base station position direction South**

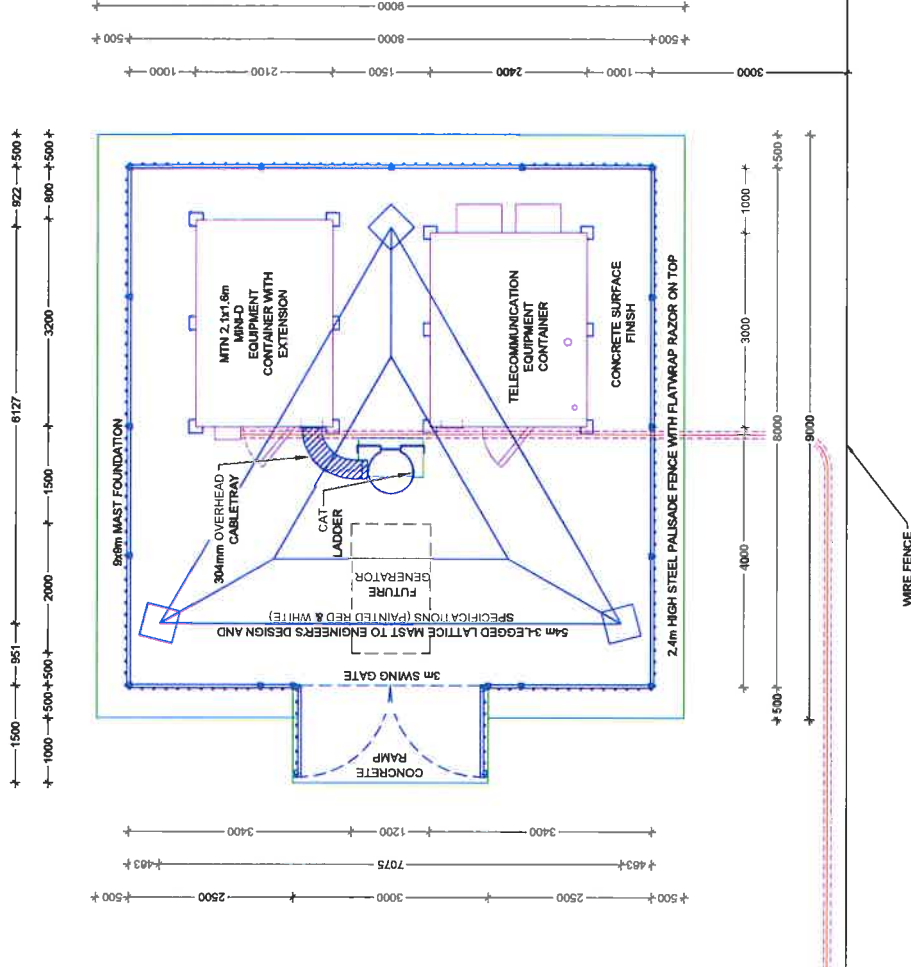


**12. View on base station position direction West**

## **Appendix C: Facility Illustrations**



PORTION 12 OF THE FARM BRAKFONTHEIN 522 IS



1577 Pekaia Street  
 Block B Highlands Centre  
 Hatfield 0083  
 Tel: +27 (0) 11 441 0000  
 Fax: +27 (0) 11 441 0000  
 Project No: 146  
 Private 1207145  
 Merlo Park

**SITE NAME:**  
**BRAKFONTHEIN**

**BASE STATION NUMBER:** T7073

REV	DATE	BY	DESCRIPTION
A	19/07/2012	MY	FIRST ISSUE

**NOTES:**  
 OWNER: WILLEM ADRIAAN JACOBUS LE ROUX

STRICTLY COMPANY CONFIDENTIAL

**PROPERTY DESCRIPTION:**  
 PORTION 12 OF THE FARM BRAKFONTHEIN 522 IS

**COORDINATES:**  
 AT: 28° 56' 50.87" S  
 LONG: 28° 36' 50.87" E

**PROJECT:**  
 NEW 9.8m TELECOMMUNICATION BASESTATION WITH A 5m LATTICE MAST FOR MTN (PTY) LTD

**ADDRESS:**  
 THE FARM BRAKFONTHEIN,  
 STANDERTON AND AMERSFOORT,  
 MPUMALANGA



**RFO NO.:** 84839  
**PROJECT NUMBER:** 84813

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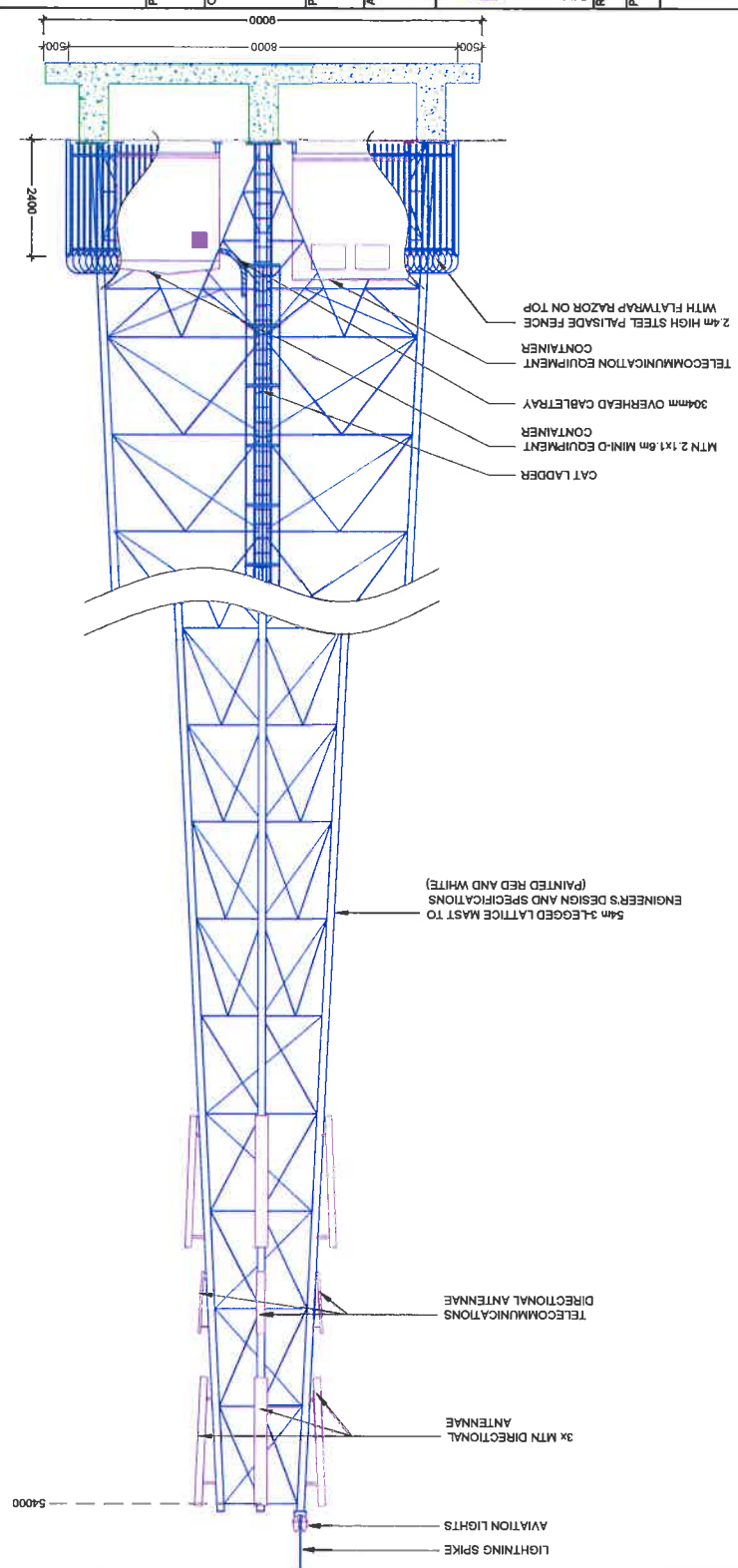
**DRAWN:** MELISSA YOUNG  
**DATE:** 19/07/2012  
**SCALE:** 1:75  
**REF. NO.:** 812/TT073

**REVISIONS MUST NOT BE ISSUED. ONLY REVISION NUMBERS TO BE USED. DIMENSIONS TO BE REFERRED ON SITE BEFORE COMMENCEMENT OF WORK.**  
 ALL WORK TO BE PERFORMED ACCORDING TO MTN BTS SITE VISIT REPORT AND THE REVISIONS LIST.  
 REVISIONS LIST: REVISION NUMBER: 0007

**SITE DETAIL**  
**SHEET 7 OF 9**

**MTN ANTENNAE KEY**

SECTOR	AZIMUTH	ANTENNA	HEIGHT - BOTTOM (m)	MECH TILT	ELEC. TILT	FEEDER SIZE	FEEDER LENGTH (m)
1	0°	TBC	TBC			7/8"	TBC
2	120°	TBC	TBC			7/8"	TBC
3	240°	TBC	TBC			7/8"	TBC



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**SITE NAME:**  
**BRAKFONTEIN**

**BASE STATION NUMBER:** T7073

REV	DATE	BY	DESCRIPTION
A	19/01/2012	MY	FIRST ISSUE

**NOTES:**  
 OWNER: WILLEM ADRIAAN JACOBUS LE ROUX

**PROPERTY DESCRIPTION:**  
 STRICTLY COMPANY CONFIDENTIAL  
 PORTION 12 OF THE FARM BRAKFONTein 522 1S

**COORDINATES:**  
 LAT: 20° 59' 29.50" S  
 LONG: 28° 30' 50.80" E

**PROJECT:**  
 NEW 900m TELECOMMUNICATION BASESTATION WITH A  
 54m LATTICE MAST FOR MTN (PTY) LTD

**ADDRESS:**  
 THE FARM BRAKFONTein,  
 OFF DIRT ROAD BETWEEN  
 HENDERSON AND AMERSFOORT,  
 MUPFUNGWA



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**PROJECT NUMBER:**  
 04813

**SCALE:** 1:100

**DATE:** 19/01/2012

**REF. NO.:** 812/T7073

**DRAWN:** MELISSA YOUNG

**ELEVATION SHEET 8 OF 9**

**DRAWINGS MUST NOT BE SCALED. ONLY DIMENSIONS TO BE USED. DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT OF WORK.**

**ALL WORK TO BE PERFORMED ACCORDING TO MTN BTS SITE INFRASTRUCTURE SPECIFICATION R01/1/001 ISSUE 1 (REVISED 01 NOVEMBER 2007)**





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SITE NAME:

**BRAKFONTEIN**

BASE STATION NUMBER:

**T7073**

REV	DATE	BY	DESCRIPTION
A	18/01/2012	MY	FIRST ISSUE

NOTES:

OWNER: WILLEM ADRIAAN JACOBUS LE ROUX

STRICTLY COMPANY CONFIDENTIAL

PROPERTY DESCRIPTION:  
 PORTION 12 OF THE FARM BRAKFONTein 522 IS

COORDINATES:

LAT: 28° 59' 28.50" S  
 LONG: 28° 30' 50.80" E

PROJECT:

NEW 980m TELECOMMUNICATION BASESTATION WITH A  
 54m LATTICE MAST FOR MTN (PTY) LTD

ADDRESS:

THE FARM BRAKFONTein,  
 OFF DIRT ROAD BETWEEN  
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 4836 BRAKFONTEIN



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P.O. Box 32017  
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REQ NO.:

94938

PROJECT NUMBER:

84813

DRAWINGS MUST NOT BE SCALED. ONLY FIGURED DIMENSIONS TO BE  
 USED. DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT  
 OF WORK

ALL WORK TO BE PERFORMED ACCORDING TO MTN SITE  
 INFRASTRUCTURE SPECIFICATION R001/001

ISSUE 1 REVISION 0 NOVEMBER 2007

DRAWN: MELISSA YOUNG

DATE: 18/01/2012

SCALE: NTS

REF. NO: 812/T7073

FACILITY ILLUSTRATION  
 SHEET 8 OF 9

TYPICAL 3-LEGGED LATTICE MAST  
 (PAINTED RED & WHITE)



**Appendix D: Specialist Reports – Not Applicable**

**Appendix E: Comments and responses report**

## Interested & Affected Parties Register / Comments and Responses Report

Site number: T7073  
 Site Name: Brakfontein  
 EIA reference no.: 17/2/3/GS - 84

<b>Interested and Affected Parties Register</b>						<b>Comments and Responses Report</b>		
No.	Date	Name	Address	Contact detail	Reacted to:	Record of initial I&AP registration	Issues raised / Comments received	EAP Response
1	01/03/2012	The Municipal Manager, Lekwa Local Municipality, Mr. J. Sindane, Environmental Management Section	PO Box 66, Standerfont, 2430	Fax: (017) 712 6808	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
2	06/03/2012	The Ward Councillor, Clr Sishoni, Ward 13	PO Box 66, Standerfont, 2430	Fax: (017) 712 6808	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
3	06/03/2012	The Municipal Manager, Gert Sibande District Municipality, Mr. A M Ngcobo, Environmental Management Section	P O Box 1748, Ermelo, 2350	Tel: 017- 801 7000 Fax: 017- 811 1207	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
4	03/01/2012	South African Civil Aviation Authority (SACAA)	Private Bag x73, Halfway House 1685	Tel: (011) 545 1000 Fax: (011) 545 1451	NA	Auto I&AP	No approval received yet	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
5	29/02/2012	South African Heritage Resources Agency (SAHRA)	PO Box 4637, Cape Town, 8000	Tel: (021) 462 4502 Fax: (021) 462 4509	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
6	29/02/2012	Mpumalanga Tourism and Parks Agency	Private Bag x11338, Nelspruit, 1200	Tel: (013) 759 5445 Fax: (013) 755 4014	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.

**Appendix F: EMPR**



# **Environmental Management Programme (EMPR)**

(Compiled and Submitted in terms of the National Environmental Management Act (Act 107 of 1998))

## **MobileTelephone Networks (Pty) Ltd**

Project Reference Number:

**T7073 Brakfontein**

**May 2012**



## DOCUMENT APPRAISAL

Reference No.		Responsible Person	Signature	Date
Stage of Document	Final			
Document Compilation				
Document Review				
Document Authorisation				

**Department Reference Number: 17/2/3/GS - 84**

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## **EXECUTIVE SUMMARY**

The proponent, MTN (Pty) Ltd, intends **the establishment of a telecommunication mast.**

The Department of [insert department details] requested that an Environmental Management Plan (EMPR) be prepared for the proposed project, which addresses all phases of the proposed project, for submission to them [for approval]. The scope of environmental management described in this EMPR pertains to the project as a whole and aims to integrate environmental planning, design, construction and operational activities on the site.

The EMPR has as its basis the recommendations listed in the Basic Assessment Report. It is important to note that the project and the implementation of environmental specifications is an ongoing process that is dynamic in nature. This EMPR forms part of the contractual obligation between the Contractor and the proponent, MTN (Pty) Ltd.

## 1 INTRODUCTION

### 1.1 Background and Brief Project Description

The proposed project involves **the establishment of a telecommunication mast.**

**Torbiose Solutions cc** was appointed to compile the Environmental Management Plan in respect of the proposed project.

#### 1.1.1 Aims of the EMPR

The purpose of the EMPR is to set environmental targets for the Contractor and reasonable standards against which the Contractor's performance in this regard can be measured during construction. This document will form the basis for the environmental specifications that the Contractor is obliged to comply with during construction of the proposed project. This document will thus form a binding agreement between the Contractor and MTN (Pty) Ltd.

The EMPR addresses issues in order to ensure that all environmental aspects are carefully considered and monitored and adverse impacts managed. It is important to note that the development and implementation of environmental specifications is ongoing and the EMPR is typically dynamic in nature.

#### 1.1.2 Contents of the EMPR

The EMPR consists of the following sections:

**Chapter 1: Introduction:** This section includes the project background, aims of this EMPR and describes the contents of this EMPR.

**Chapter 2: Administration and regulation of environmental obligations:** This section identifies the proposed mechanisms for monitoring compliance with the EMPR and reporting thereof.

**Chapter 3: Environmental Specifications: Construction Phase:** This section includes environmental specifications relating to the construction phase of the project.

**Chapter 4: Environmental Specifications: Operational Phase:** This section includes environmental specifications relating to the operational phase of the project.

**Chapter 5: Environmental Specifications: Decommissioning Phase:** This section includes environmental specifications relating to the decommissioning of the site.

**Chapter 6: Emergency Response Plan:** This section provides a summary of responses to emergency situations

## **2 ADMINISTRATION AND REGULATION OF ENVIRONMENTAL OBLIGATIONS**

### **2.1 Environmental Site Agent**

The Environmental Site Agent (ESA) is the person, appointed by the Contractor on behalf of the Applicant or the Environmental Consultant appointed on behalf of the Applicant, involved with the project and all projects within the operational region of the Contractor and who is responsible for the implementation of the environmental management plan. This person is therefore responsible for the environmental issues involved with the construction phase of the project. The ESA will be required to oversee a number of sites at any given time and is required to manage his/her time effectively to ensure that he/she fulfils his/her environmental obligations in respect of all sites.

The ESA must be a person with adequate environmental knowledge to understand and implement this management plan. It is required that the ESA reports to the Applicant (MTN (Pty) Ltd) irrespective of who appointed the ESA. The ESA has the authority to stop works if in his/her opinion there is a serious threat to or impact on the environment, caused directly from the construction operations. This authority is to be limited to emergency situations where consultation with the HOD Implementation and/or Property Supervisor and/or National Property Manager is not immediately available. In all such work stoppage situations, the ESA is to inform the HOD Implementation and/or Property Supervisor and/or National Property Manager of the reasons for the stoppage as soon as possible thereafter.

Upon failure by the Contractor and/or his employees to show adequate consideration to the environmental aspects of this EMPR, the ESA may recommend the suspension of works pending an investigation by the HOD Implementation and/or Property Supervisor and/or National Property Manager.

### **2.2 Environmental Awareness Training for Site Personnel**

All Contractor teams involved in work on the project are to be briefed on their obligations towards environmental controls and methodologies in terms of this EMPR prior to the commencement of work. The briefing will take the form of an on site talk, when an RFQ (Request for Quotation) site survey is set up, and shall be demonstrated by the ESA. The education / awareness programme should be aimed at all levels of employees within the Contractor team. (See "Do's and Don'ts" summary sheet).



## **2.3 On Site Communication Procedure**

### **2.3.1 Environmental Awareness Training for Site Personnel**

The Site Instruction book entries will be used for the recording of general site instructions as they relate to the work taking place on site. It will also be used for the issuing of stop work orders for the purposes of immediately halting any particular activities of the Contractor in lieu of the environmental risk that they may pose.

### **2.3.2 Record Keeping**

All records relating to the implementation of this EMPR must be kept on site; on the MTN Operating System and archived at an adequate archive facility where it is safe and can be retrieved easily. These records should be kept for two years and should at any time be available for scrutiny by any relevant authorities.

### **2.3.3 Photographs**

It is recommended that photographs are taken on the site prior to, during and immediately after construction as a visual reference. These photographs should be stored with other records related to this EMPR and on the MTN Operating System. If captured in digital format, hard copies must be kept with all other records relevant to the implementation of this EMPR. In particular, the Contractor and ESA are responsible for taking photographs of the environmental aspects of environmentally sensitive areas for use in rehabilitation processes.

### **2.3.4 Environmental Audit Report**

An Environmental Audit Report is a report completed by the ESA and signed off by the HOD Implementation and/or the Property Supervisor and/or National Property Manager, and then sent to the relevant authorities, by the ESA, stating the completion of the project and compliance with the EMPR and conditions.

## **2.4 Basic Rules of Conduct**

The following list represents the basic "Do's and Dont's" towards environmental awareness, which all participants in this project must consider whilst carrying out their tasks and duties. These are not exhaustive and serve as a quick reference aid. **NOTE: All new site personnel must attend an**

**environmental awareness presentation.** Please inform your foreman or manager if you have not attended such a presentation alternatively contact the ESA.

**DO:**

- ✓ Use the toilet facilities provided – report dirty or full facilities;
- ✓ Clear your work areas of litter and building rubbish at the end of each day – use the waste bins provided and ensure that litter will not blow away;
- ✓ Report all fuel or oil spills immediately and stop the spill continuing;
- ✓ Dispose of cigarettes and matches carefully. (Littering is an offence);
- ✓ Confine work and storage of equipment to the immediate work area and within the site boundary;
- ✓ Where possible use a drip tray under vehicles and machinery and empty drip trays after rain and throw away where instructed;
- ✓ Use all safety equipment and comply with all safety procedures;
- ✓ Ensure a working fire extinguisher is immediately at hand if any “HOT WORK” is undertaken e.g. welding, grinding, gas cutting etc;
- ✓ Try to avoid producing dust – wet dry ground and soil;

**DONT:**

- ✗ Make any fires;
- ✗ Enter any fenced off or marked area;
- ✗ Allow cement or cement bags to blow around;
- ✗ Allow waste, litter, oils or foreign materials into the stormwater channels;
- ✗ Litter or leave food laying around;
- ✗ Make loud noises around the site. Report or repair noisy vehicles
- ✗ Damage or cut down any trees or plants without permission.

## **2.5 Internal Review and Auditing**

The Contractor and ESA shall establish an internal review procedure to monitor the progress and implementation of the EMPR during the construction phase. All audits will be signed off by the HOD Implementation and/or Property Supervisor and/or National Property Manager.

Where necessary, and upon the recommendation of the ESA and/or the Contractor, procedures that require modification will be changed to improve the efficiency of the EMPR. All modifications to the EMPR shall be approved by the Department before; if possible, any changes or adjustments to the EMPR are implemented. Any material changes or adjustments to the EMPR shall be registered accordingly on MTN's operating system.. Adjustment and update of the original EMPR document is not required when these *ad hoc* changes are made.

At the conclusion of the project an environmental audit report shall be compiled by the ESA, and signed off by HOD Implementation and/or Property Supervisor and/or National Property Manager and submitted to the Department by the ESA. This report shall be compiled by the ESA, in collaboration with the Contractor and/or the Environmental Consultant and/or the Applicant.. It shall, as a minimum, outline the implementation of the EMPR during the construction phase, and highlight any problems and issues that arose during the construction period to report, on a formal basis, the lessons learnt from this project.

### **3 ENVIRONMENTAL SPECIFICATIONS: CONSTRUCTION PHASE**

#### **3.1 Site Demarcation**

The "site" refers to the total area where the contract will take place and any other area reasonably required by the Contractor to undertake the construction activities in order to fulfil the contract. Areas where construction is prohibited are referred to as 'no-go' areas. 'No-go' areas identified on site include all areas outside of the footprint of the base station as well as environmentally sensitive sites. The environmental sensitivity of the area should be ascertained and then the position and orientation of the BTS site as per the approved drawings should be pegged out. 'No-go' areas should be demarcated to prevent environmental degradation thereto. This responsibility rests with the ESA and/or the Contractor.

The Contractor shall be responsible for any clean-up and/or rehabilitation of all areas impacted outside the site and within the 'no-go' areas.

#### **3.2 Construction Facilities**

##### **3.2.1 Construction Camp**

Construction crews may not stay on site overnight unless special permission has been obtained from the landowner. In the event that the landowner has given such permission, the position of the construction camp shall be agreed by the ESA and Contractor.

##### **3.2.2 Toilet Facilities**

The Contractor shall provide suitable sanitary arrangements (chemical toilets), which shall be located within the construction camp and/or in the construction footprint (where applicable) of the BTS. The siting of toilets shall be done in consultation with the ESA to ensure ease of access. Where required, toilet/s shall be secured to prevent them blowing over.

The Contractor shall be responsible for ensuring that all ablution facilities are maintained in a clean and sanitary condition to the satisfaction of the ESA. The Contractor shall provide toilet paper. The Contractor shall appoint a suitable sub-contractor to empty toilets on a regular basis. The sub-contractor and Contractor shall ensure that there is no spillage when the chemical toilets are cleaned and that the contents are properly removed from site.

The Contractor shall be responsible for enforcing the use of these facilities. Performing ablutions outside of established toilet facilities is strictly prohibited.

### **3.2.3 Water Provision**

The Contractor shall be responsible for ensuring that there is access to clean drinking water for all employees on site. The use of water in rivers, dams, ponds etc. as drinking water is strictly forbidden.

### **3.2.4 General Aesthetics**

All construction areas must be kept neat and tidy at all times. Different materials and equipment must be kept in designated areas and storing/stockpiling shall be kept orderly.

## **3.3 Site Clearing**

### **3.3.1 Vegetation Clearing**

Before clearing of vegetation, the Contractor shall ensure that all litter and non-organic material is removed from the area to be cleaned. All vegetation that may not be removed must be clearly identified and demarcated. Where the surrounding flora is required to be protected from traffic, the entire construction area should be fenced off with a temporary 1.8m fence. The fence should be removed upon completion of construction. This responsibility rests with the Contractor and the ESA. The use of herbicides is prohibited.

### **3.3.2 Site Access**

All access to and from the BTS shall be on demarcated roads (where possible). The route for permanent access to the site shall be determined prior to construction, and shall be pegged out accordingly. Photographs shall be taken indicating the route detail. Rehabilitation of secondary roads must be conducted by the Contractor. No machinery may disturb any vegetation along side any road.

### **3.3.3 Trenching**

All trenching must be completed in such a manner as to limit damage to the surrounding environment. If required in the authorisation, trenching is to be done by hand.

## **3.4 Materials Handling and Storage**

### **3.4.1 Handling**

The Contractor shall ensure that all suppliers and their delivery drivers are aware of procedures and restrictions in terms of this EMPR. The Contractor (and suppliers) shall ensure that all materials are appropriately secured to ensure safe passage between destinations. Loads shall have appropriate cover to prevent spillage from the vehicle during transit. The Contractor shall be responsible for any clean-up resulting from the failure by his employees or suppliers to properly secure transported materials. The Contractor shall ensure that delivery drivers are supervised during offloading.

### **3.4.2 Storage of Construction Materials**

The Contractor shall ensure that areas for storage of construction materials are determined in consultation with the ESA and adequately demarcated. All construction materials including but not limited to building material shall be stored on such demarcated areas.

### **3.4.3 Storage of Equipment**

Drip trays shall be provided for stationary plant (such as compressors, pumps, generators etc.) and for "parked" plant (e.g. mechanised equipment).

## **3.5 Refuelling and Maintenance**

### **3.5.1 Refuelling**

Where reasonably practicable, plant and vehicles shall be refuelled using suitable equipment (e.g. funnels) and the necessary drip trays.

### **3.5.2 Maintenance**

All vehicles and equipment shall be kept in good working order and serviced regularly. Leaking equipment shall be removed from the site. All maintenance of equipment and vehicles shall be performed off site. No washing of plant and equipment shall be undertaken on site.

### **3.6 Accidental Leaks and Spills**

The Contractor shall ensure that his employees are aware of the procedure to be followed for dealing with spills and leaks. Any accidental leak or spill of fuel, oil or any other hazardous substance must be reported immediately to the ESA to ensure that the best remediation method is quickly implemented.

In the event of a hydro-carbon spill, the source of the spillage shall be isolated and the spillage contained. The area shall be cordoned off and secured. The Contractor shall ensure that there is always a supply of absorbent material readily available to absorb / breakdown spills.

The Contractor shall be liable to arrange for professional service providers to clear the area affected by the spill, if required.

### **3.7 Waste Management**

#### **3.7.1 Solid Waste**

Solid waste includes all construction waste (cement bags, tags, wrapping materials, cans, wire, nails, etc.) and surplus food, food packaging, organic waste etc. The Contractor shall be responsible for the establishment of a solid waste control and removal system that is acceptable to the ESA in order to prevent the spread of waste in, and beyond, the construction area. An integrated waste management approach shall be used, based on the principles of waste minimisation, reduction, reuse and recycling of materials. Containers for glass, paper, metals and plastics shall be provided, if sufficient solid waste is generated. The construction camp area (if applicable) is particularly suited for this purpose.

The Contractor shall provide vermin and weatherproof bins (with lids) of sufficient number and capacity to store solid waste produced on a daily basis. The lids shall be kept firmly on the bins at all times. Bins shall be located in areas where there is a concentration of labour and shall be easily



accessible. Bins shall be emptied regularly as required, preferably every second day. The general cleanliness of the site shall form part of the ESA inspections.

All solid waste may be temporarily stored on site in a demarcated area, which meets the satisfaction of the ESA. All solid waste shall be disposed of off site at a licensed landfill site. The stockpiling of construction rubble, cut vegetation or other material shall only be permitted in areas approved by the ESA. No waste material or litter shall be burnt or buried on site.

#### Erosion Control

The Contractor shall, as an ongoing exercise, provide erosion control to the satisfaction of the ESA. During construction, the Contractor shall protect areas susceptible to erosion by installing necessary temporary and permanent draining works as soon as possible.

Any runnels or erosion channels developed during the construction period shall be backfilled and compacted, and the areas restored to an acceptable condition (as determined by the ESA). Stabilisation of cleared areas to prevent and control erosion shall be actively managed.

During construction, the Contractor shall implement measures to prevent the migration of materials (fines) from the construction site into river courses, drainage lines, stormwater and sewerage systems.

### **3.8 Fire Control**

No fires shall be allowed on site. At least one 12.5kg type ABC (all purpose) fire extinguisher shall be kept on the construction site.

### **3.9 Protection of Natural Features, Flora and Fauna**

#### **3.9.1 Protection of Natural Features**

The Contractor shall not deface, paint, damage or mark any natural features outside the site for any purpose unless agree beforehand with the ESA. The Contractor shall not permit his employees to make use of any natural water sources situated on or near the site for purposes of swimming, personal washing and/or the washing of machinery or clothes.

### **3.9.2 Protection of Flora**

The removal, damage or disturbance of flora, fauna or avifauna is forbidden. The clearing of vegetation within the construction area shall be undertaken in accordance with that specified in section 3.3.1.

The Contractor shall be familiar with any Ordinances, Acts, By-laws and/or regulations pertaining to the protection of natural features, flora and fauna on site. Where applicable, the Contractor shall apply for the necessary permits prior to removing any plants listed in the relevant schedules promulgated in terms of the legislation.

### **3.9.3 Protection of Fauna**

The Contractor shall ensure that no hunting, trapping, shooting, poisoning or other disturbance of any fauna takes place. The feeding of wild animals is prohibited. No domestic pets or livestock are permitted on site.

### **3.10 Protection of Heritage and Cultural Features**

The Contractor shall not, without a permit issued by the relevant heritage resources authority, destroy, damage, excavate, alter, deface or otherwise disturb archaeological finds. Archaeological finds can take the form of buried walls, old bottles, porcelain fragments, earthenware fragments, accumulations of bone and ash dumps.

If any archaeological or paleontological artefacts and/or human burials or remains are uncovered during construction, work in the vicinity of the find shall cease. The Contractor shall immediately notify the HOD Implementation and/or Property Supervisor and/or National Property Manager , who shall contact the South African Heritage Resources Agency (SAHRA). The Contractor will be required to abide by the specifications as set out by SAHRA or the heritage specialist appointed to investigate the find or burial.

### **3.11 Dust Control**

The Contractor shall ensure that the generation of dust is minimised and shall implement a dust control programme to maintain a safe working environment, minimise nuisance and protect damage to natural vegetation.

The Contractor shall ensure that all exposed soil and material stockpiles are adequately protected against the wind. Where possible, dust suppression shall take place by way of spraying.

### **3.12 Noise Control**

The Contractor shall be familiar with and adhere to, any local by-laws and regulations regarding the generation of noise and hours of operation. Working hours shall be confined to the hours between [insert time as per EA/ROD] and [insert time as per EA/ROD]. The Contractor shall be held responsible for any complaints received from the department and/or public with respect to any contravention of agreed noise conditions.

### **3.13 Cement**

Cement and concrete mixing directly on the ground shall not be allowed. Where possible, ready mix concrete shall be utilised in all site construction. Mixing of cement, if applicable, shall take place on impermeable surfaces to the satisfaction of the ESA.

Unused cement bags shall be stored out of the rain where they will not be affected by run-off. Used (empty) cement bags shall be collected and stored in weatherproof containers to prevent wind blown cement dust and water contamination. Used cement bags shall not be used for any other purpose and shall be disposed of on a regular basis via the solid waste management system.

All excess concrete shall be removed from site on completion of concrete works and disposed of at a licensed landfill site. Washing of the excess concrete or washing of concrete pump trucks into the ground is prohibited.

### **3.14 Mast Colour**

The mast shall be painted [insert details in accordance with that stated in ROD/EA and in accordance with Civil Aviation Authority requirements].

### **3.15 Complaints Register**

The ESA shall have accessible on the construction site a complaints register in terms of which all complaints received from interested and affected parties shall be recorded. The Complaints register shall be kept on site for the duration of construction activities and all complaints received shall be reported to the ESA.

### **3.16 Site Rehabilitation and Landscaping**

On completion of the project, the Contractor shall ensure that all structures, equipment, materials, waste, rubble, notice boards and temporary fences used during the construction operation are removed with minimum damage to the surrounding area. The Contractor shall clean and clear the site to the satisfaction of the ESA.

In the case of accidental spills of oils, the affected soils shall be dug out and removed from the site for disposal at a licensed hazardous waste site and replaced with fresh topsoil.

Rehabilitation shall especially focus on all scarred and open areas, in order to reduce visual impacts as a result of the construction phase. Stored topsoil, if applicable, shall be used for rehabilitation purposes.

## 4 ENVIRONMENTAL SPECIFICATIONS: OPERATIONAL PHASE

The following responsibilities will be met to prevent negative environmental impacts:

- Providing a budget for maintenance;
- Maintaining all approved infrastructure in good working order to effectively fulfill its intended purpose and to prevent negative environmental impacts;
- Not construct any additional buildings, infrastructure etc. contrary to the approved Environmental Authorization, without performing an environmental impact assessment to evaluate alternatives and environmental impacts;
- To immediately remedy any factors that contribute to negative environmental impacts;
- [Where the ROD requires this – insert this clause]To do an annual environmental audit and to have the results in writing available at the administration offices of MTN.

### 4.1.1 Maintenance

Procedure to be followed to ensure the high standards of appearance and quality are maintained on the BTS sites to ensure that environmental issues are adequately addressed and that BTS sites are effectively maintained.

1. All BTS sites must be maintained and cleaned as per the schedule set by the Field Maintenance Supervisor responsible;
2. The items that must be checked will be as per the list below and as reflected in detail in the Site Maintenance Report and Statement of Work reference documentation;
  - a. Fence and Gate: Secure and rust treat as necessary;
  - b. Signage: Check all signs as per the BTS Site Infrastructure Specification;
  - c. Terrain:
    - i. Clean and de-weed inside and outside the BTS site and clean a 1m perimeter area around the fence. In areas susceptible to soil erosion, cut weed perimeter in such a way as to protect soil from erosion;
    - ii. De-weed invasive vegetation in the surrounding area of the BTS site;
    - iii. Check for any rubble that could have accumulated from previous maintenance work or during the BTS site build and remove and dump at a registered waste disposal site.
  - d. Equipment Room: De-rust, wash walls and floor and dust interior;

- e. BTS Cabinet: Replace filter
  - f. Container: Replace blown fluorescent lights (discard used lights in safe manner to ensure no mercury exposure), clean roof and cut away branches hanging over the site;
  - g. Air Conditioner: Wash, dry and seal;
  - h. Mast Navigation Lights: Replace blown globes
  - i. Mast: Check foundation, bolts, bolt torque, cable tray, cage and contact specialist to remove nests;
  - j. Road: Check condition i.e. check for signs of soil erosion, potholes and general sturdiness;
  - k. Power Source: Check condition i.e. still safe and insulated;
  - l. Maintenance Waste: All waste generated from the maintenance work must be removed from the area and disposed of at an approved landfill.
3. Invasive vegetation can easily be recognized as it is found in the immediate vicinity surrounding the site, but does not grow in the natural environment in the surrounding area. Normally the seeds of invasive vegetation are brought in an area with sand used during BTS site construction. Every effort must be made to remove invasive vegetation before it produces seeds.
4. In non environmentally sensitive areas, MTN approved weed killers may be used, under controlled conditions, to minimize weed growth. Soil erosion must be considered and prevented prior to using any weed killers.
5. Problems or non-compliance, such as poor road maintenance or erosion, mast paint peeling and poor mast condition, must be reported immediately. The necessary corrective action must be implemented to rectify the situation.

## 5 ENVIRONMENTAL SPECIFICATIONS: DECOMMISSIONING PHASE

The objective to provide guidelines is to prevent structures being left to deteriorate. Therefore it is imperative that non-functional structures are removed as soon as possible and the area is rehabilitated. If non-functional structures are no longer required, it must be maintained as if it is in use to prevent the environmental degradation of the area.

The Applicant will be responsible for the following:

- Removal of the construction building rubble to a suitable licensed disposal facility;
- Ensuring that suitable arrangements are made to protect the environment against long term negative impacts;
- Minimize negative visual impacts;
- Maintain the storm water channels in a working condition;
- Clean up contaminants of the environment;
- Prevent erosion through regular monitoring and rehabilitation of degraded areas.

### 5.1.1 Procedure

Procedure to be followed when decommissioning a BTS site.

1. A Work Authorisation must be issued by the Planning and Optimisation Division instructing the Implementation Division to decommission a particular site. In most cases, there will be a replacement BTS site issued at the same time. This may involve more than one BTS site to achieve the same coverage, largely depending on the site location and the Planning Engineer;
2. The BTS site will only be decommissioned once the replacement site has been activated (this is preferred, but not always possible), otherwise the replacement site must have at least been approved by the Property division and an instruction to proceed with the replacement BTS site build has been given to the Implementation Division;
3. When the site is decommissioned, the following areas should be considered as detailed further below:
  - a. Slab and concrete work;
  - b. Tower;
  - c. Antennas;
  - d. Feeder System;
  - e. Fencing and Guardrails;



- f. Container;
- g. Site Rehabilitation;
- h. Dumping
- i. Power connection to be disconnected

#### **Slab and Concrete Work**

4. All the concrete, cement and reinforcing on site must be removed and disposed of in a Registered dump by the Contractor. All land must be filled with landfill and compacted as necessary. (refer to owners requirements). If the landlord agrees, the concrete, cement and reinforcing can remain as is.
5. All stone or site fill must be removed and disposed of in an approved landfill by the Contractor.

#### **Tower**

6. The tower must be dismantled in a controlled manner and transported to the original tower manufacturer for inspection. The tower must be inspected for conformance to the current MTN specification. If the tower meets MTN's current tower specifications it must be packed for redistribution to another BTS site.
7. If the tower does not meet MTN's current tower specification it must be sent to the central warehouse or a location specified by the warehouse. The tower will then be retained until it can be removed (depreciated) from the asset register and sold as scrap metal.
8. All accessories associated with the tower such as booms, antenna poles, cat ladders, cables etc must be inspected and returned to the central warehouse for inspection, packaging and redistribution to another BTS site.
9. All antennas shall be returned to the warehouse for testing to ensure that they still meet the manufacturers specification. The central warehouse will identify whether they are on MTN's accepted antenna list. If so, they will be placed back in stock and redistributed to another BTS site.
10. If the antenna is not on MTN's current accepted antenna list, it will be sent to the central warehouse until it is removed from the asset register (depreciated) and scrapped.
11. Antenna brackets will be returned to the central warehouse for inspection and redistribution.

#### **Feeder System**

12. Connectors will be cut off the feeder cable, the open ends will be weather sealed, rolled and sent to the central warehouse for inspection, evaluation and redistribution.
13. The warehouse will dispose of unusable feeder cable according to the approved disposal procedure.

14. All feeder brackets and clamps must be packed and sent to the central warehouse for distribution.
15. Earthing materials must be returned to the central warehouse for redistribution or disposal. Waterproofing should be disposed of by the Contractor in an approved landfill.

#### **Fencing and Guardrails**

16. All fencing must be removed in a controlled manner for reuse. Concrete must be removed and dumped in an approved landfill by the Contractor.
17. Gates and access ways must be returned to the central warehouse for inspection and redistributed to another BTS site.
18. All electric fencing must be removed and returned to the central warehouse for inspection and redistribution.

#### **Container**

19. The container must be stripped of all equipment, returned to the manufacturer for inspection and refurbished if necessary. The container is then redistributed to another BTS site, preferably in the same region.
20. All other equipment must be sent to the Central Warehouse for evaluation and redistribution, if applicable.
21. All the equipment above must go through acceptance testing as per the acceptance procedure relating to that specific piece of equipment.

#### **Site Rehabilitation**

22. The BTS site, access roads and any trenches must be rehabilitated, conforming to ISO standards and to a level accepted by both the ESA and the landlord and must meet legal obligations that may be imposed or apply to that particular BTS site.

#### **Dumping**

23. No Contractor or Sub-contractor will dispose of any (dump) material or product without the approval from the responsible ESA.
24. All materials or products must be disposed of in the correct manner, in approved dumping site by the Contractor or Sub-Contractor. MTN must ensure that this procedure is followed for all sites decommissioned.

#### **Records**

Records of such decommissioning shall be kept electronically on the MTN Operating System.

## 6 EMERGENCY RESPONSE PLAN

The objective of this section is to provide a brief summary of options available to the ESA. The details of the design will reside with the designers, but cognizance should be taken of the design philosophy and key aspects given in the guidelines to problem solving given below.

### 6.1 Typical remedial work options

The following table is provided to assist the Contractor and ESA with problem solving:

Observation or Event	Action by ESA	Action by Contractor
Spillage of diesel or hydrocarbons on soil	<p>Report to ESA and continue observations.</p> <p><b>Also check:</b></p> <ul style="list-style-type: none"> <li>➤ That the source causing the spillage is decommissioned, and that the affected area is isolated to prevent spreading of the hazardous substance</li> </ul>	<p>Action will be required asap by following the next steps:</p> <ul style="list-style-type: none"> <li>➤ Dig down into the soil to see how far down the pollution has penetrated;</li> <li>➤ If penetration is less than 300mm: <ul style="list-style-type: none"> <li>a. Turn the soil over to expose it to the air;</li> <li>b. Apply Mono Ammonium Phosphate (MAP) at a rate of 58gr/m<sup>2</sup> to the dug up soil</li> <li>c. Water enough to keep the soil moist</li> </ul> </li> <li>➤ If penetration is greater than 300mm: <ul style="list-style-type: none"> <li>a. Remove the affected soil and spread in a layer not more than 300mm thick;</li> <li>b. Apply MAP at a rate of 50gr/m<sup>2</sup></li> <li>c. Water enough to keep the soil moist</li> </ul> </li> <li>➤ Repeat the above steps every 6 weeks or until the soil is clean</li> </ul>
General Surface Erosion	<p>Report to ESA and continue observations.</p> <p><b>Also check:</b></p> <ul style="list-style-type: none"> <li>➤ In respect of erosion of roads that all vehicular movement is restricted to the existing access routes to prevent criss-crossing of tracks through undisturbed areas.</li> </ul>	<p>Action will be required asap:</p> <ul style="list-style-type: none"> <li>➤ Implement erosion protection works at identified problem areas;</li> <li>➤ Implement remedial works to be done at affected areas in order to restore the area to its previous or better status.</li> </ul>

This EMPR has been assessed/reviewed and agreed with:

\_\_\_\_\_

**HOD – Implementation**

Name: \_\_\_\_\_

Region: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

**SUPERVISOR – Property**

Name: \_\_\_\_\_

Region: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

**Environmental Consultant (ESA)**

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

**HOD - Maintenance**

Name: \_\_\_\_\_

Region: \_\_\_\_\_

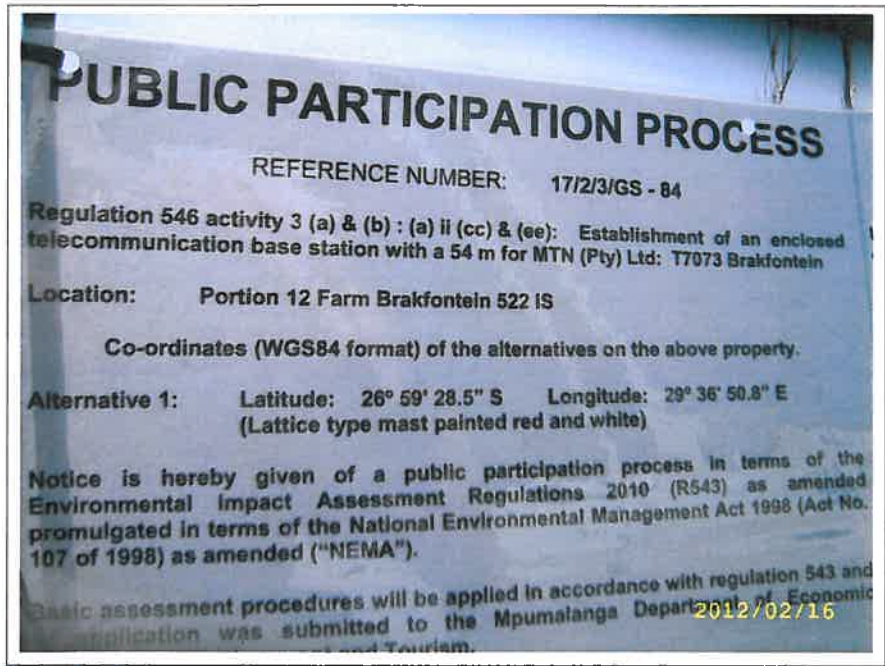
Date: \_\_\_\_\_

## **Appendix G**

- G1 – Public Participation - Proof of Site Notice**
- G2– Public Participation – Proof of Written Notices to I&AP**
- G3 – Public Participation – Proof of Newspaper Advertisement**
- G4 – Public Participation – Register of I&APs**
- G5- South African Civil Aviation Authority Information**
- G6 – Motivation for exemption from assessing alternatives**

**G1 Proof of Site Notice**

# Proof of Site Notice



Site Notice 1 affixed to stand next to road.



Site Notice 1 affixed to stand next to road.



# Proof of Site Notice



Site Notice 1 affixed to stand next to road.



Site Notice 2 affixed to fence next to gate

# Proof of Site Notice

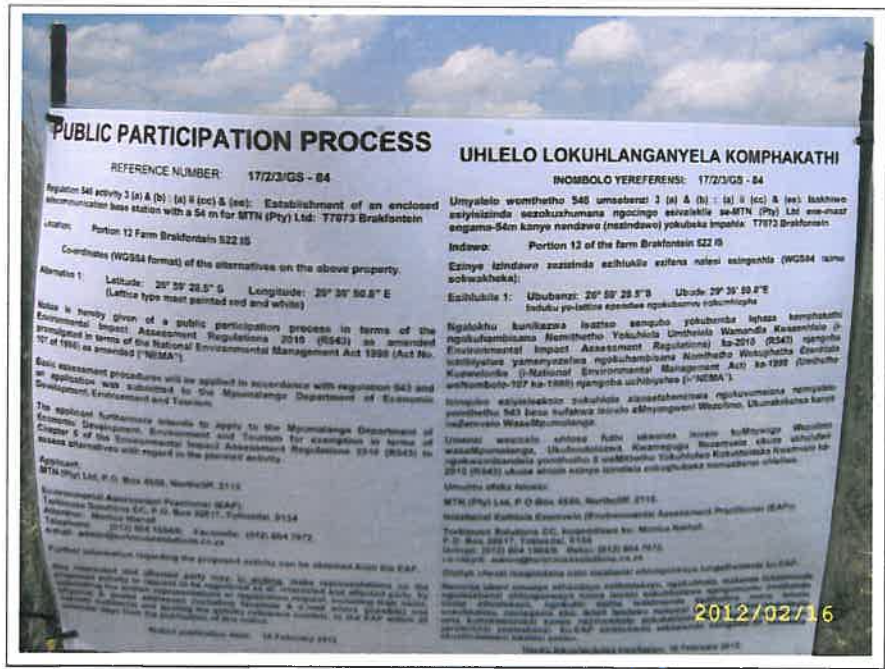


Site Notice 2 affixed to fence next to gate



Site Notice 2 affixed to fence next to gate

# Proof of Site Notice



Site Notice 3 affixed to stand next to road at a T-junction



Site Notice 3 affixed to stand next to road at a T-junction

# Proof of Site Notice



**Site Notice 3 affixed to stand next to road at a T-junction**

**G2 – Written Notices**



Destination	Start Time	Time	Prints	Result	Note
0177126808	03-01 12:34	00:02:45	010/010	OK	

Note TON: Toner TX, POL: Colling, ORG: Original Size, BATTING: FME: Frame Erase TX,  
MIX: Mixed Originals, H: Hand, C: Copy, FWD: Forward, PC: PC-Fax,  
BNO: Double-Sided Binding Direction, SS: Special original, FCODE: F-code, RTX: Re-TX,  
SLY: Slay, RER: confidential, BUL: bulletin, BIP: BIP Fax, IPADR: IP Address FAX,  
I-FAX: Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF,  
TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer,  
Refuse: Receipt Refused, Busy: Busy, M-Full: Memory Full,  
LOWR: Receiving length Over, POVER: Receiving page Over, FIL: File Error,  
DC: Decode Error, MDN: MDN Response Error, DSN: DSN Response Error.

Our Reference:  
T7073 / 17/2/3/08 - 84

Your Reference:

The Municipal Manager  
Lekwa Local Municipality  
P O Box 68  
Standerton  
2430

Attention: Mr J Sindane  
Environmental Management Section

Facsimile: (017) 712 8808  
E-mail:



Reg. No. 2001/080638/23

PO Box 32017, Totodadi, 0134

414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504/6  
Fax: (012) 804 7072

e-mail: admin@torbiousolutions.co.za

Dear Sir / Madam,

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1989 ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 (a) & (b) : (a) II (cc) and (ee) IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFRONTEIN 522 IS.**

In terms of the Act and related regulations and guidelines Local Authorities are identified as key interested and affected parties (I&AP).

We request you to evaluate the attached information on the proposed project and provide us with your written comments and/or inputs, if any, by faxing or e-mailing such within 30 days from the date of this notification. It will be assumed that you do not have any comments on the Environmental Application of the proposed project on the expiry of the 30 day response period.

Should you have any further queries please do not hesitate to contact us.

Kind Regards,

*M. Niehof*  
MONICA NIEHOF  
For: Torbious Solutions cc

Comments:

Our Reference:  
T7073 / 17/2/3/GS - 84

Your Reference:



The Municipal Manager  
Lekwa Local Municipality  
P O Box 66  
Standerton  
2430

Reg. No. 2001/080535/23

PO Box 32017, Totiusdal, 0134

Attention: Mr J Sindane  
Environmental Management Section

414 Rustic Road  
Silvertondale, 0184  
Pretoria

Facsimile: (017) 712 6808  
E-mail:

Tel: (012) 804 1504/ 6  
Fax: (012) 804 7072  
e-mail: admin@torbiousolutions.co.za

Dear Sir / Madam,

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 (a) & (b) : (a) ii (cc) and (ee) IN REGULATION 548: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFORTEIN 522 IS.**

In terms of the Act and related regulations and guidelines Local Authorities are identified as key interested and affected parties (I&AP).

We request you to evaluate the attached information on the proposed project and provide us with your written comments and/or inputs, if any, by faxing or e-mailing such within 30 days from the date of this notification. It will be assumed that you do not have any comments on the Environmental Application of the proposed project on the expiry of the 30 day response period.

Should you have any further queries please do not hesitate to contact us.

Kind Regards,

A handwritten signature in black ink, appearing to read "M. Niehof".

**MONICA NIEHOF**  
For: Torbious Solutions cc

**Comments:**

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Members: KW Anholts; GA Anholts





Our Reference:  
T7073 / 17/2/3/GS-84

Your Reference:



The Ward Councillor  
Lekwa Local Municipality  
P O Box 66  
Standerton  
2430

Reg. No. 2001/080535/23

PO Box 32017, Totiusdal, 0134

Attention: Clr Sishoni  
Councillor: Ward 13

414 Rustic Road  
Silvertondale, 0184  
Pretoria

Facsimile: (017) 712 6808  
E-mail:

Tel: (012) 804 1504/ 6  
Fax: (012) 804 7072  
e-mail: admin@torbiousolutions.co.za

Dear Sir / Madam,

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 (a) & (b) : (a) ii (cc) and (ee) IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFORTEIN 522IS.**

In terms of the Act and related regulations and guidelines ward councillors are identified as key interested and affected parties (I&AP).

We request you to evaluate the attached information on the proposed project and provide us with your written comments and/or inputs, if any, by faxing or e-mailing such within 30 days from the date of this notification. It will be assumed that you do not have any comments on the Environmental Application of the proposed project on the expiry of the 30 day response period.

Please forward the attached documentation to the relevant Resident Association or provide us with their contact details.

Should you have any further queries please do not hesitate to contact us.

Kind Regards,

A handwritten signature in black ink, appearing to read "WA Van't Foort".

**WA VAN'T FOORT**  
For: Torbious Solutions cc

**Comments:**

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Destination	Start Time	Time	Prints	Result	Note
017811168	03-06 12:48	00:14:11	010/010	OK	

NOTE: This report is only valid if the original data received from the printer is used. If you are using a copy of the report, the results may be different. The printer may have changed the data or the report may have been altered. The printer may have changed the data or the report may have been altered. The printer may have changed the data or the report may have been altered.

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch Off, TEL: OK from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer, Refuse: Receipt Refused, Busy: Busy, H-Full: Memory Full, LDM: Receiving Length Over, PWR: Receiving Page Over, Fil: File Error, DC: Decode Error, RN: RN Response Error, DSN: DSN Response Error.

Env. Reference  
 17073 / 17073026 - 04

Via Reference



The Municipal Manager  
 City of Toronto District Municipality  
 O. Box 36311  
 Scarborough  
 M1S 5A5

Attention: M. A. St. Jacques  
 Environmental Management Section

Telephone: (416) 392-5100  
 E-mail:

Reg. No. 20010000000000000000  
 416 392-5100  
 416 392-5100  
 416 392-5100

Dear Sir / Madam,

INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1999 ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 5 (a) & (b); (c) & (d) AND (e) IN REGULATION 249: ESTABLISHMENT OF A NEW (PTV) 1 TO TELECOMMUNICATIONS BASE STATION IN PORTER 12 OF THE FARM BRANFORTHIN 222 10.

In terms of the Act and related regulations and guidelines Local Authorities are identified as key interested and affected parties (KIAP).

We request you to evaluate the attached information on the proposed project and provide us with your written comments and/or inputs, if any, by faxing or e-mailing such within 30 days from the date of this notification. It will be assumed that you do not have any comments on the Environmental Assessment of the proposed project on the expiry of the 30 day response period.

Should you have any further queries please do not hesitate to contact us.

Kind Regards

*WA VAN'T ROOY*  
 WA VAN'T ROOY  
 For Torbiouse Solutions (P)

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



The Municipal Manager  
Gert Sibande District Municipality  
O Box 3475  
Standerton  
2430

Reg. No. 2001/080535/23

PO Box 32017, Totlusdal, 0134

Attention: Mr A M Ngcobo  
Environmental Management Section

414 Rustic Road  
Silvertondale, 0184  
Pretoria

Facsimile: (017) 811 1169  
E-mail:

Tel: (012) 804 1504/ 6  
Fax: (012) 804 7072  
e-mail: admin@torblousesolutions.co.za

Dear Sir / Madam,

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 (a) & (b) : (a) ii (cc) and (ee) IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFONTein 522 IS.**

In terms of the Act and related regulations and guidelines Local Authorities are identified as key interested and affected parties (I&AP).

We request you to evaluate the attached information on the proposed project and provide us with your written comments and/or inputs, if any, by faxing or e-mailing such within 30 days from the date of this notification. It will be assumed that you do not have any comments on the Environmental Application of the proposed project on the expiry of the 30 day response period.

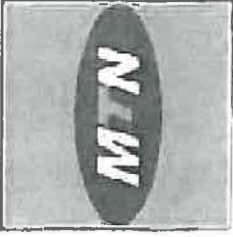
Should you have any further queries please do not hesitate to contact us.

Kind Regards,

*WA Van't Foort*  
**WA VAN'T FOORT**  
For: Torbious Solutions cc

**Comments:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





Printed On: 14/01/2012 10:00:00 AM  
Project: T7073  
Drawing: T7073-01

1:8000 Projection: UTM  
Scale: 1:8000  
Datum: WGS 84  
Units: Meter

1:8000 Projection: UTM  
Scale: 1:8000  
Datum: WGS 84  
Units: Meter

T7073  
BRAKFONTTEIN

BASE STATION NUMBER  
T7073

REV	DATE	BY	DESCRIPTION
A	18/01/2012	IMV	FIRST ISSUE

NOTES

OWNER: WILLEM ADRIANUS JACOBUS LE ROUX

STRICTLY COMPANY CONFIDENTIAL

PROPERTY DESCRIPTION

PORTION 12 OF THE FARM BRAKFONTTEIN 522 IS

COORDINATES  
LAT: 29° 59' 28.50" S  
LONG: 29° 30' 51.80" E

PROJECT

NEW 94m TELECOMMUNICATION BASESTATION WITH A 54m LATTICE MAST FOR MTN (PTY) LTD

ADDRESS

THE FARM BRAKFONTTEIN  
OFF DIRT ROAD BETWEEN  
STANDERTON AND AMERSFOORT  
MFRUMLANZA



INFRASTRUCTURE  
PLANNING SERVICES

4th Floor  
144 Market Street  
Cape Town  
7800

Tel: +27 (0) 21 424 1111  
Fax: +27 (0) 21 424 1112  
www.ipsafrica.com

P.O. Box 2001  
Pretoria  
0114

PROJECT NUMBER

M413

DIMENSIONS MUST NOT BE SCALED. ONLY DIMENSIONS TO BE USED DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT OF WORK.

ALL WORK TO BE REFERENCED TO UTM 87S GTC  
INFRASTRUCTURE SPECIFICATION (MILITARY)  
ISSUE 1 (REVISED 8 NOVEMBER 2007)

DRAWN

MELISSA YOUNG

SCALE

MTB

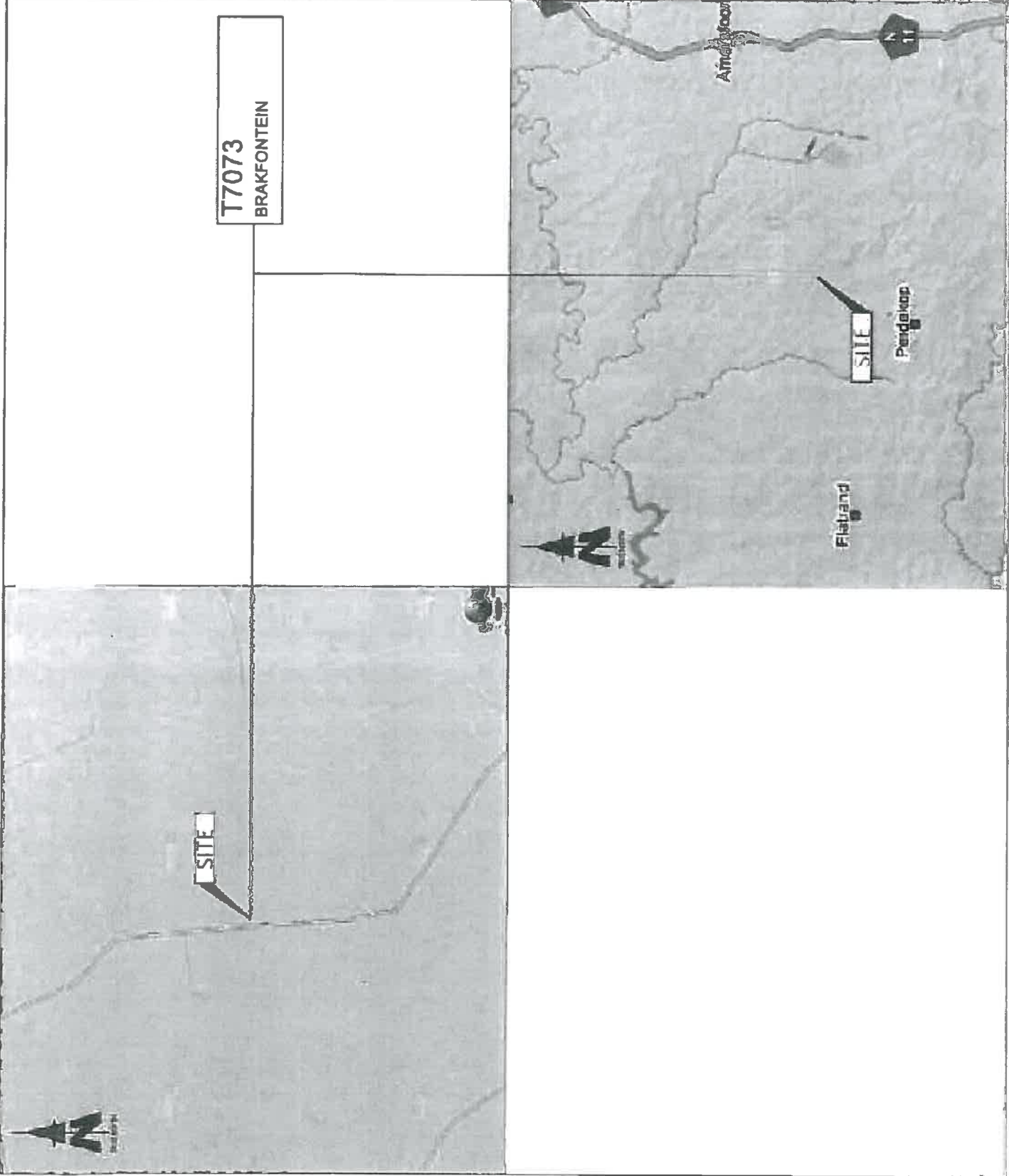
DATE

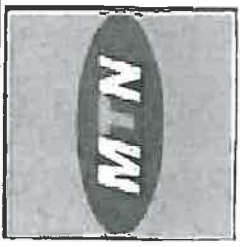
18/01/2012

REF NO

81207073

LOCALITY MAP  
SHEET 1 OF 9





1987 Publication  
 74 437 073 342 7000  
 444 Raffles Place  
 Singapore 048623  
 Fax: 437 073 342 7000  
 Website: www.mtn.com.sg

BITTE HOUSE  
 BRAKFONTEIN  
 T7073

STRICTLY COMPANY CONFIDENTIAL  
 PROPERTY DESCRIPTION  
 PORTION 12 OF THE FARM BRAKFONTEIN 522 IS

REV	DATE	BY	DESCRIPTION
A	18/01/2012	MT	FIRST ISSUE

NOTES  
 OWNER: VELLIM ADRIAN JACOBUS LE ROUX

COORDINATES  
 LAT 29° 59' 26.59" S  
 LONG 29° 30' 50.80" E

PROJECT  
 NEW 100MHz TELECOMMUNICATION BASESTATION WITH A 51m LATTICE MAST FOR MTN (PTY) LTD

ADDRESS  
 THE FARM BRAKFONTEIN  
 OFF DIRT ROAD BETWEEN  
 STANDERTON AND AMERSFOORT,  
 MPMUNALAMBA

INFRASTRUCTURE  
 PLANNING SERVICES

444 Raffles Place  
 Singapore 048623  
 Tel: 437 073 342 7000  
 Fax: 437 073 342 7000  
 Website: www.infrastruc.com.sg

PROJECT NUMBER  
 849298

SCALE: 1:500

DATE: 18/01/2012

REF NO: 812/7073

DRAWN: MELJIBRA YOUNG

SCALE: MTS

CADASTRAL INFO  
 SHEET 2 OF 9

LG. No. A 8198/44

STATION	COORDINATES
1	1000000.000
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3	1000000.000
4	1000000.000
5	1000000.000
6	1000000.000
7	1000000.000
8	1000000.000
9	1000000.000
10	1000000.000
11	1000000.000
12	1000000.000
13	1000000.000
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15	1000000.000
16	1000000.000
17	1000000.000
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19	1000000.000
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50	1000000.000

1:500 Scale  
 18/01/2012  
 1000000.000



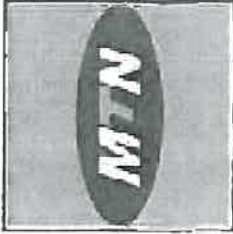
PROJECT NUMBER  
 849298

DATE: 18/01/2012

SCALE: 1:500

DRAWN: MELJIBRA YOUNG

CADASTRAL INFO  
 SHEET 2 OF 9



1187 Puchanan Street  
 Block 11, Hillside, Colombo  
 Phone: 011 94 11 251 1000  
 Fax: 011 94 11 251 1001  
 Email: info@mtn.lk

GATE NO: 0000

BASE STATION NUMBER: T7073

REV	DATE	BY	DESCRIPTION
A	19/01/2012	MY	FIRST ISSUE

NOTES:  
 OWNER: WALEM ADRIAN JACOBUS LE ROUX

STRICTLY COMPANY CONFIDENTIAL  
 PROPERTY DESCRIPTION  
 PORTION 12 OF THE FARM BRAKFORTEIN 522 IS

COORDINATES  
 LAT: 2° 59' 28.50" S  
 LONG: 2° 35' 50.80" E

PROJECT  
 NEW 840m TELECOMMUNICATION BASESTATION WITH A  
 54m LATTICE MAST FOR MTN (PTY) LTD

ADDRESS  
 THE FARM BRAKFORTEIN  
 OFF DORT ROAD BETWEEN  
 STANBERTON AND AMERSFOORT  
 MUPUMALANGA



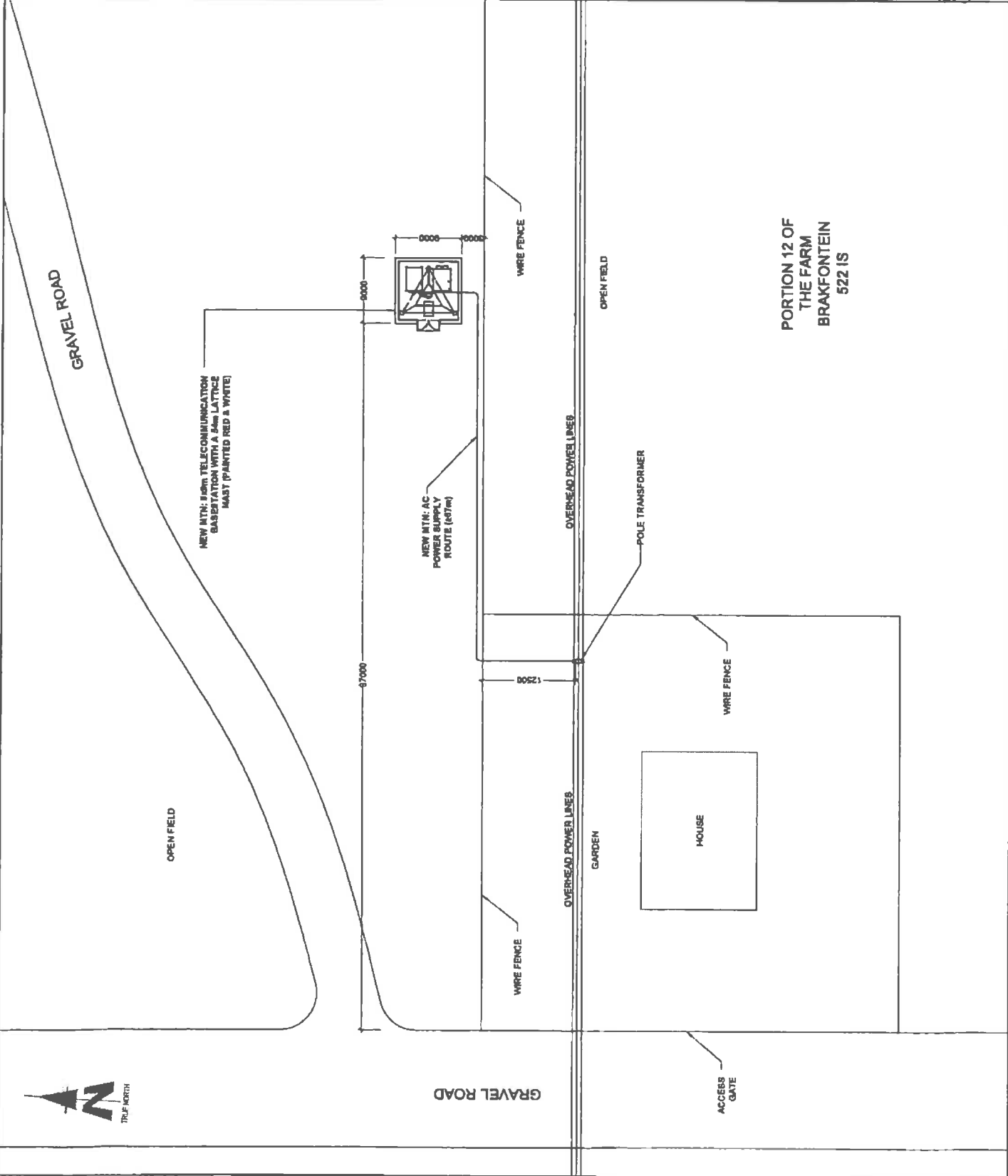
414 Pacific Road  
 Midrand  
 1709  
 Tel: 011 709 804 1800  
 Fax: 011 709 804 2072  
 Email: info@ipsafrica.com

P.O. Box 2001  
 Midrand  
 1714

PROJECT NUMBER  
 14139  
 14113

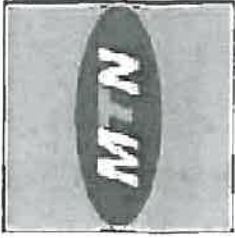
DRAWN: MELURIA YOUNG  
 SCALE: 1:500  
 DATE: 19/01/2012  
 REF: NO 81277073

SITE DEVELOPMENT PLAN  
 SHEET 3 OF 9



PORTION 12 OF  
 THE FARM  
 BRAKFORTEIN  
 522 IS





197 Pineside Blvd  
 Black & Whiteville Complex  
 Black Mt, NC 28019  
 TEL: 437.032.342.2920  
 Fax: 437.032.342.2928  
 Internet: www.mtn.com

**SITE NAME**  
**BRAKFONTEIN**

**BASE STATION NUMBER**  
**T7073**

REV	DATE	BY	DESCRIPTION
A	19/01/2012	MTY	FR181719LJE

**NOTES**  
 ONIWA VALLEN ANDRIAN JACOBUS LR 8014

**STRICTLY COMPANY CONFIDENTIAL**  
**PROPERTY DESCRIPTION**  
 PORTION 12 OF THE FARM BRAKFONTEIN 522 IS

**COORDINATES**  
 LAT 29° 59' 28.50" S  
 LONG 29° 36' 50.80" E

**PROJECT**  
 NEW 800m TELECOMMUNICATION BASESTATION WITH A  
 54m LATTICE MAST FOR MTN (PTV) LTD

**ADDRESSES**  
 THE FARM BRAKFONTEIN  
 OFF DIRT ROAD BETWEEN  
 STAMERSTON AND AMERSFOORT  
 MPMALANCA



444 Pineside Blvd  
 Black Mt, NC 28019  
 TEL: 437.032.342.2920  
 Fax: 437.032.342.2928  
 Internet: www.ips-engineering.com

**PROJECT NUMBER**  
 94839

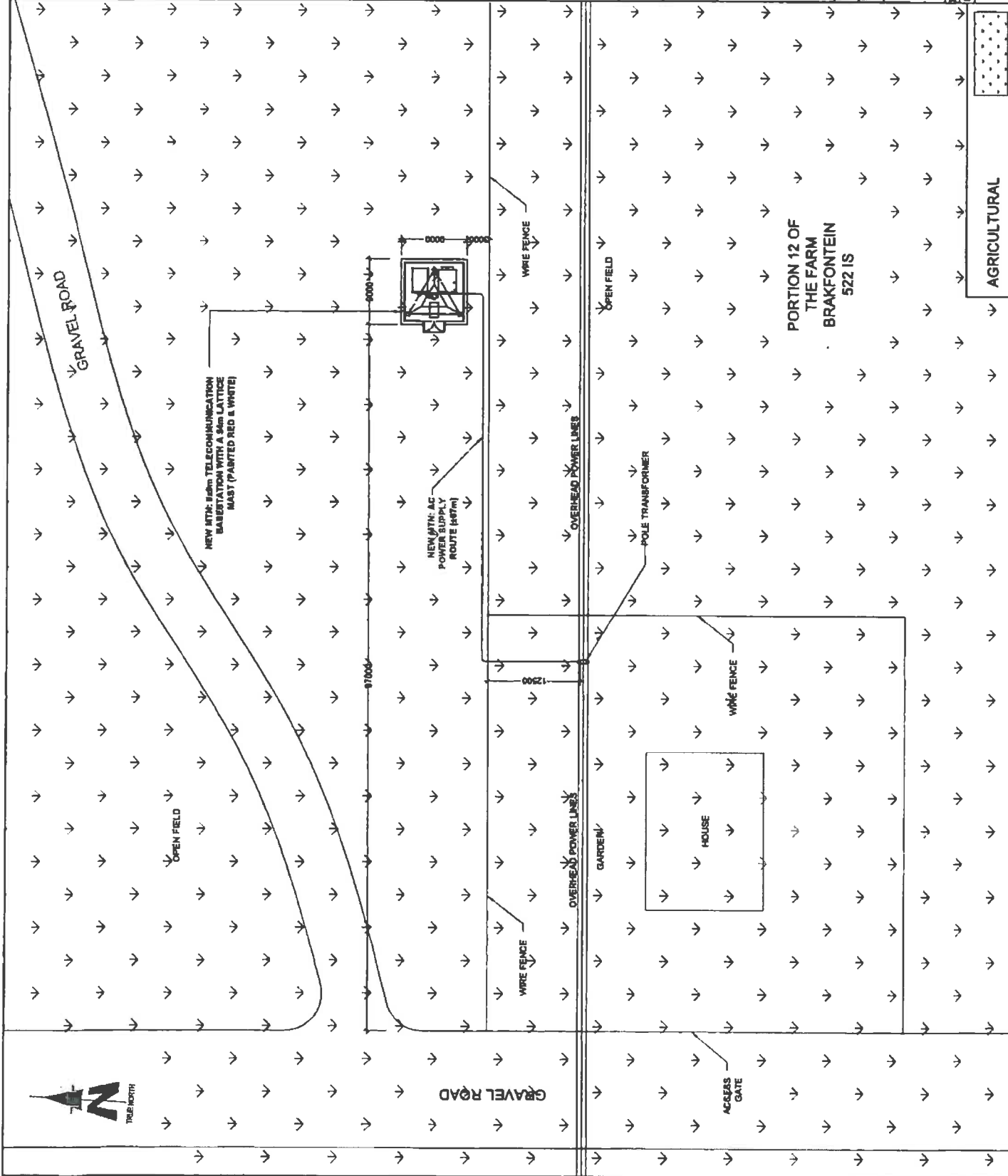
**DATE**  
 19/01/2012

**SCALE**  
 1:500

**DRAWN BY**  
 MELISSA YOUNG

**REF NO**  
 91277073

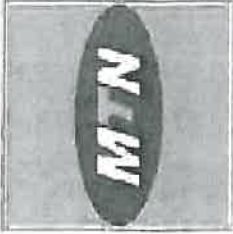
**CURRENT LAND USE**  
 SHEET 4 OF 9



**AGRICULTURAL**

**PORTION 12 OF THE FARM BRAKFONTEIN 522 IS**





1307 Pretorius Street  
 Block B, Hillside Computer  
 Hillside, 2008  
 Tel: +27 (0) 21 942 2000  
 Fax: +27 (0) 21 942 2008  
 Private Bag 219  
 Hillside Park

SITE NAME

**BRAKFONTEIN**

BASE STATION NUMBER  
**T7073**

REV	DATE	BY	DESCRIPTION
A	18/01/2012	MY	PRIST BIBLE

NOTES  
 OWNER: WILLEM ADRIANUS JACOBUS DE ROOY

PROPERTY DESCRIPTION  
 PORTION 12 OF THE FARM BRAKFRONTEIN 522 IS

COORDINATES  
 LAT 28° 59' 28.50" S  
 LONG 29° 30' 50.80" E

PROJECT  
 NEW BROW TELECOMMUNICATION BASE STATION WITH A  
 5m LATTICE MAST FOR MTN (PTY) LTD

ADDRESS  
 THE FARM BRAKFRONTEIN  
 OFF DIRT ROAD BETWEEN  
 STANBERTON AND AMERSFOORT  
 MURMILLANGA



414 Middle Road  
 Alberton  
 0184  
 Tel: +27 (0) 21 924 1200  
 Fax: +27 (0) 21 924 1202  
 info@ipsinfrastructure.com

P.O. Box 2001  
 Alberton  
 0184

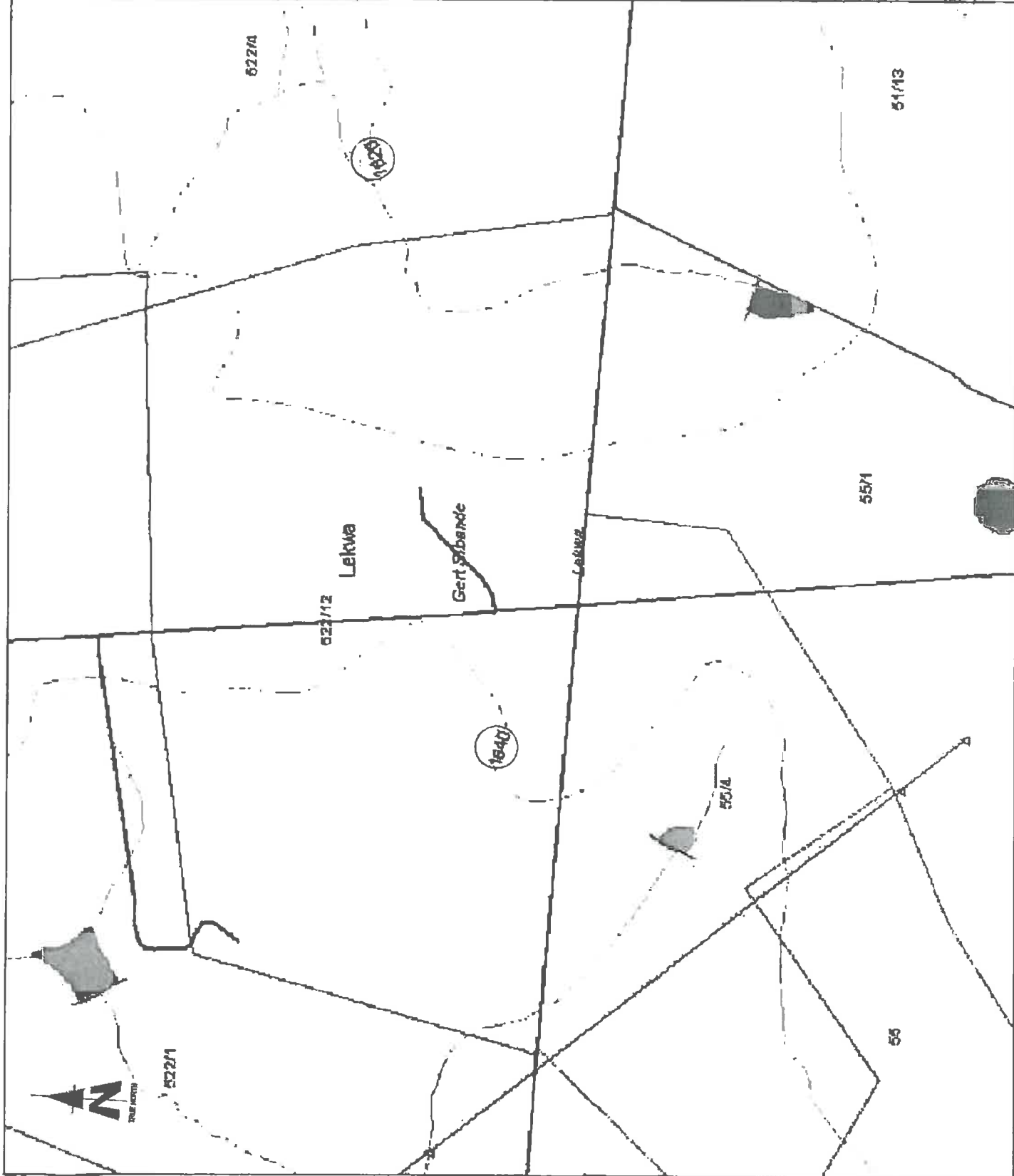
PROJECT NUMBER  
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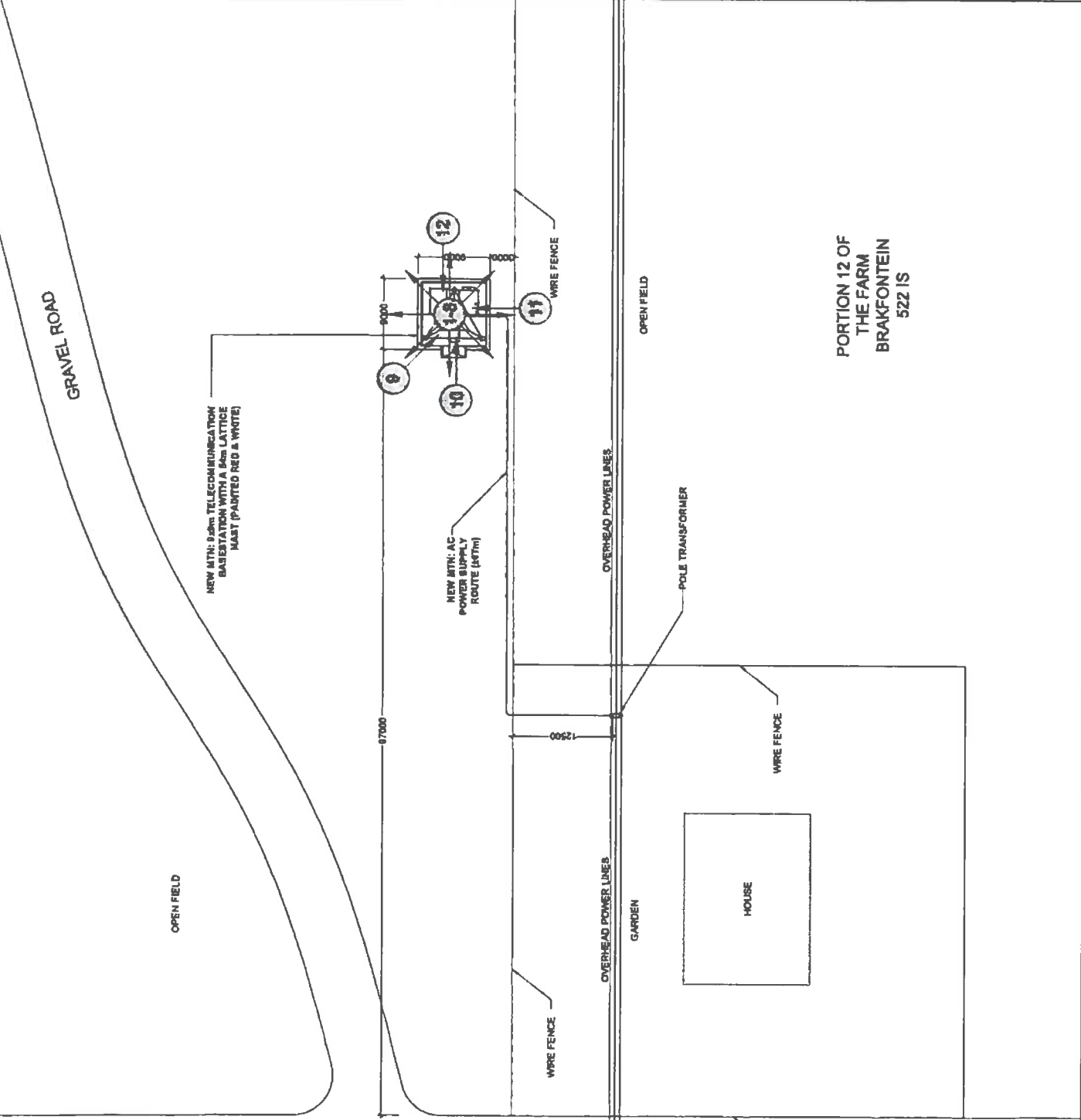
DRAWINGS MUST NOT BE REPRODUCED OR COPIED WITHOUT PERMISSION TO BE  
 USED. DRAWINGS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT  
 OF WORK.

ALL WORK TO BE PERFORMED ACCORDING TO SABS'S SITE  
 INSPECTION AND TESTING GUIDE  
 (PART 1) (REVISED NOVEMBER 2007)

DRAWN: MELISSA YOUNG  
 DATE: 18/01/2012  
 SCALE: MTS  
 REF NO: 81277073

CONTOUR INTERVAL  
 SHEET 5 OF 8





GRAVEL ROAD

OPEN FIELD

NEW MTK: 5.0m TELECOMMUNICATION BASESTATION WITH A 5m LATTICE MAST (PAINTED RED & WHITE)

NEW MTK: AC POWER SUPPLY ROUTE (47m)

WIRE FENCE

OVERHEAD POWER LINES

GARDEN

HOUSE

WIRE FENCE

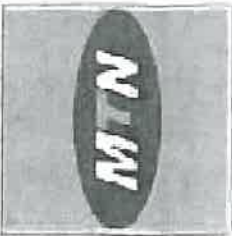
POLE TRANSFORMER

OVERHEAD POWER LINES

OPEN FIELD

WIRE FENCE

PORTION 12 OF THE FARM BRAKFONTAIN 522 IS



1377 Pretorius Street  
 Midrand, 2008  
 14-16 Mtati Street  
 Midrand, 2008  
 19-21 Mtati Street  
 Midrand, 2008

SITE NAME

**BRAKFONTAIN**

BASE STATION NUMBER

**17073**

REV	DATE	BY	DESCRIPTION
A	19/01/2012	MY	FIRST ISSUE

NOTES

CORNER VALLEY ARMAN JACOBUS LE ROUX

STRICTLY COMPANY CONFIDENTIAL  
 PROPERTY DESCRIPTION  
 PORTION 12 OF THE FARM BRAKFONTAIN 522 IS

COORDINATES  
 LAT 28° 59' 28.50" S  
 LONG 28° 30' 50.10" E

PROJECT  
 NEW 5.0m TELECOMMUNICATION BASESTATION WITH A 5m LATTICE MAST FOR MTK (PTY) LTD

ADDRESS  
 THE FARM BRAKFONTAIN  
 OFFICE ROAD BETWEEN  
 STANBORTON AND AMERIFORT,  
 MIDRAND



414 Middle Road  
 Midrand, 2008  
 P.O. Box 2001  
 Tel: +27(11) 661 1200  
 Fax: +27(11) 661 1070  
 Email: info@ipsafrica.com

PROJECT NUMBER  
 94929

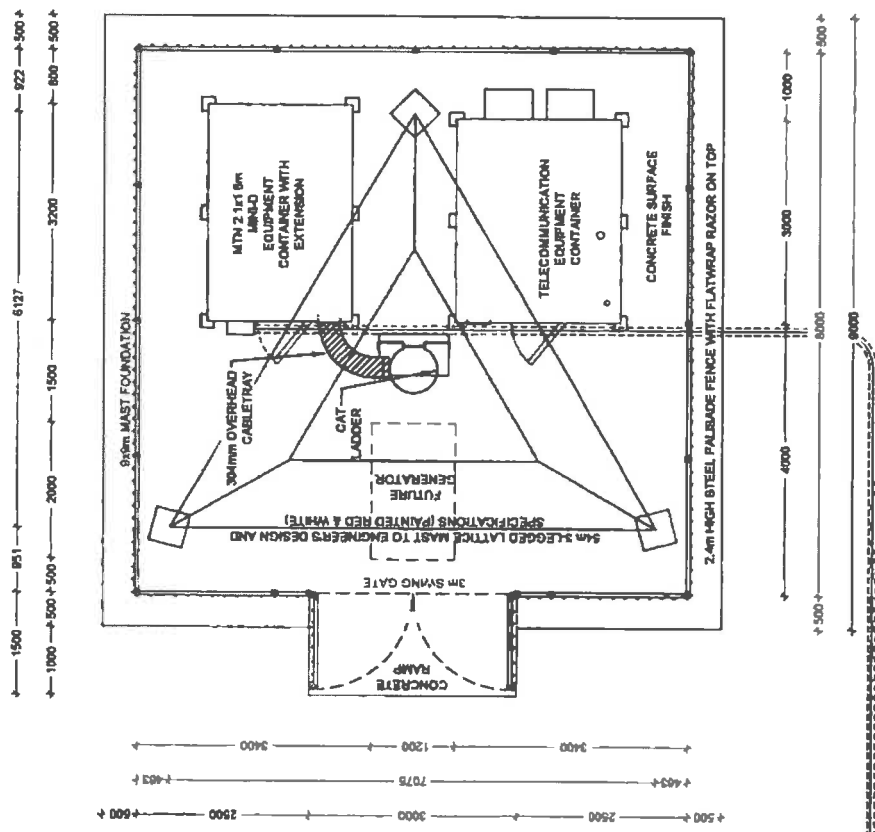
DRAWINGS MUST NOT BE SCALED. ONLY DIMENSIONS TO BE USED DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT OF WORK.  
 ALL WORK TO BE PERFORMED ACCORDING TO MTK'S SITE INFRASTRUCTURE SPECIFICATION (MITS) ISSUE 1.0 (VERSION 1) (MIDRAND SITE)

DRAWN: MELISSA YOUNG  
 DATE: 19/01/2012  
 SCALE: 1:500  
 REF NO: 81297703

SITE PHOTOGRAPHS  
 SHEET 6 OF 9

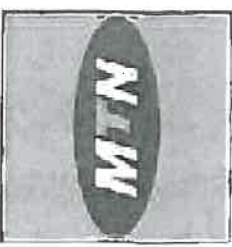


PORTION 12 OF THE FARM BRAKFONTHEIN 522 IS



NEW MTN: Ø110mm UNDERGROUND NEXTUBE SLEEVE FOR AC POWER SUPPLY POLE (Ø170m)

WIRE FENCE



1707 Parkside Street  
 Midrand, Gauteng  
 1707  
 011 792 3000  
 www.mtn.co.za

**SITE NAME**  
 BRAKFONTHEIN

**BASE STATION NUMBER** 17073

REV	DATE	BY	DESCRIPTION
A	19/01/2012	MY	FRONT DRAWING

**NOTES**  
 OWNER: WELLEN ARIJAHAN JACOBUS LE ROUX

**PROPERTY DESCRIPTION**  
 STRICTLY COMPANY CONFIDENTIAL  
 PORTION 12 OF THE FARM BRAKFONTHEIN 522 IS

**COORDINATES**  
 LAT: 28° 59' 28.50" S  
 LONG: 29° 30' 50.80" E

**PROJECT**  
 NEW 9.6m TELECOMMUNICATION BASESTATION WITH A 5m LATTICE MAST FOR MTN (PTY) LTD

**ADDRESS**  
 THE FARM BRAKFONTHEIN  
 OFF-ROAD BETWEEN  
 SOUTHERN CROSS AND AUERSFORD  
 MIDRAND, GAUTENG



410 Middle Road  
 Midrand, Gauteng  
 1707  
 011 792 3000  
 www.ipsinfra.com

**PROJECT NUMBER**  
 17073

**DATE** 19/01/2012  
**REF NO** 412/17073

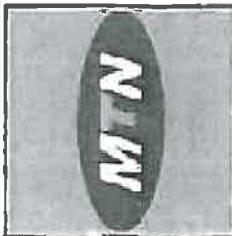
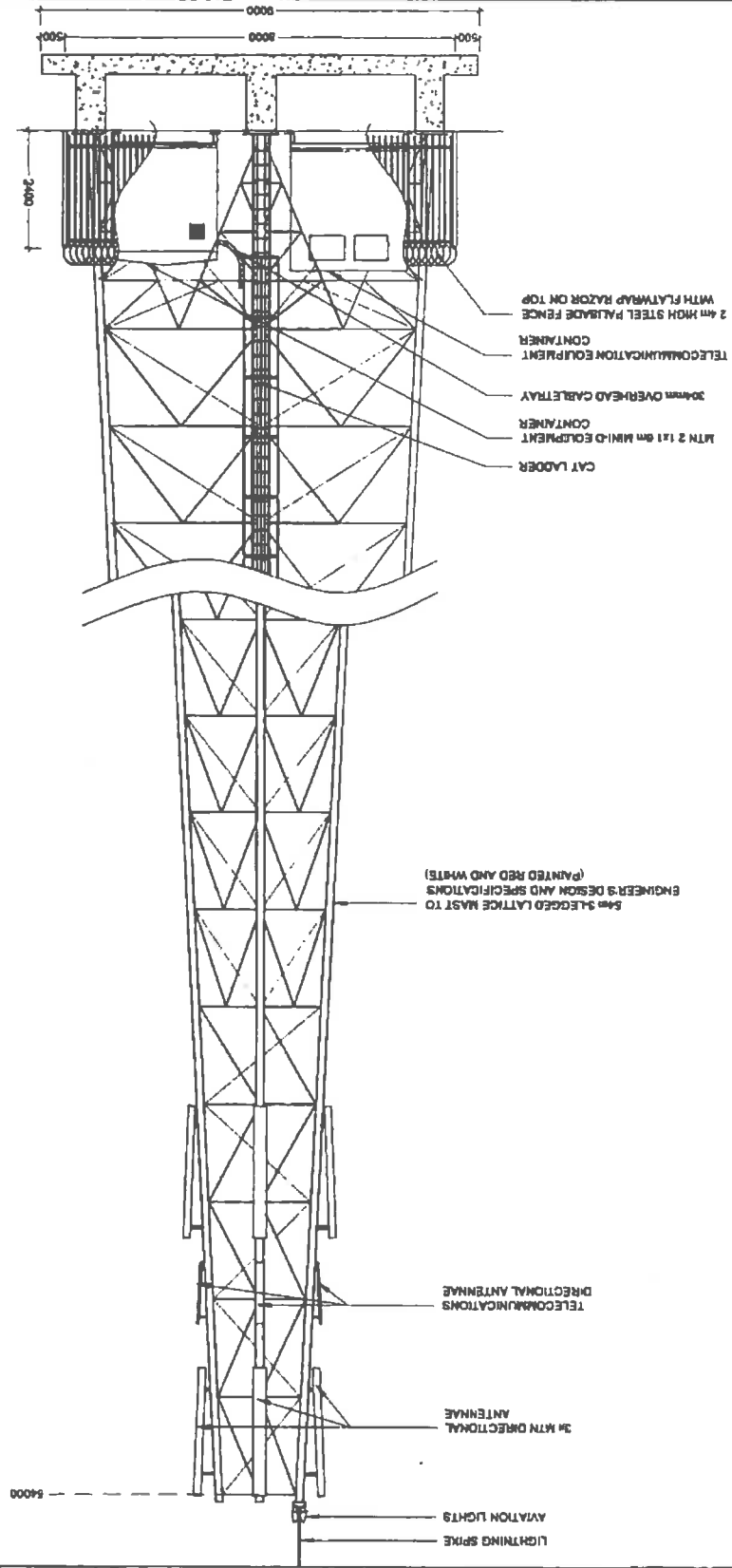
**DRAWN** MELUGA YOUNG  
**SCALE** 1:75

**SITE DETAIL**  
**SHEET 7 OF 9**

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**MTN ANTENNAE KEY**

SECTOR	AZIMUTH	ANTENNA	HEIGHT - BOTTOM (m)	MECH TILT	ELEC. TILT	FEEDER SIZE	FEEDER LENGTH (m)
1	0°	TBC	TBC			7/8"	TBC
2	120°	TBC	TBC			7/8"	TBC
3	240°	TBC	TBC			7/8"	TBC



1877 Pineside Blvd  
 Suite 10  
 Houston, TX 77058  
 Tel: 281 412 3422  
 Fax: 281 412 3422  
 Email: info@mtncorp.com

**BRAKFONTEIN**  
 BASE STATION NUMBER: T7073

REV	DATE	BY	DESCRIPTION
A	16/01/2012	MTY	FIRST ISSUE

NOTES  
 OWNER: WILLEM ADRIANUS JACOBUS DE ROOIJ

STRICTLY COMPANY CONFIDENTIAL  
 PROPERTY DESCRIPTION  
 PORTION 12 OF THE FARM BRAKFOONTEIN 522 IS

COORDINATES  
 LAT: 28° 58' 26.50" S  
 LONG: 28° 30' 50.80" E

PROJECT  
 NEW 5MHz TELECOMMUNICATION BASESTATION WITH A 3m LATICE MAST FOR MTN (PTY) LTD

ADDRESSES  
 THE FARM BRAKFOONTEIN  
 OFF DIRT ROAD BETWEEN  
 STANDERTON AND AMERSFOORT  
 MUKUNJANZA



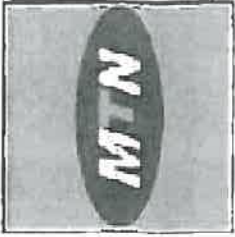
414 Pineside Blvd  
 Suite 10  
 Houston, TX 77058  
 Tel: 281 412 3422  
 Fax: 281 412 3422  
 Email: info@ipsinc.com

PROJECT NUMBER  
 84813

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DATE: 16/01/2012  
 REF: NO: B1207073

SCALE: 1:100  
 ELEVATION SHEET 8 OF 8



1887 Pretorius Street  
 Strand & Heerlenburg, Cape  
 Town, 8001

Tel: +27 (0) 21 342 2923  
 Fax: +27 (0) 21 342 2758

Project: Suite 14  
 Private Bag 215  
 Strandfontein

DATE NAME

**BRAKFONTEIN**

BASE STATION NUMBER  
**T7073**

REV	DATE	BY	DESCRIPTION
A	18/01/2012	MY	FIRST ISSUE

NOTES

OWNER: WELLEM ADRIAN JACOBUS US KOUZ

STRICTLY COMPANY CONFIDENTIAL

PROPERTY DESCRIPTION  
 PORTION 12 OF THE FARM BRAKFONTEIN 121 IS

COORDINATES  
 LAT: 28° 59' 21.60" S  
 LONG: 28° 38' 50.80" E

PROJECT  
 NEW 900MHz TELECOMMUNICATION BASESTATION WITH A  
 3m LATTICE MAST FOR MTN (PTY) LTD

ADDRESSES  
 THE FARM BRAKFONTEIN,  
 OFFICE DIST. ROAD BETWEEN  
 STANDERTON AND ABERFEE-ORF,  
 WYNBURG



414 Peka Road  
 Midrand, 2008  
 Johannesburg, SA

Tel: +27 (0) 11 854 8049  
 Fax: +27 (0) 11 854 8072  
 info@ipsafrica.com

P.O. Box 309  
 Tlokweng  
 0154

REG. NO.

04038

PROJECT NUMBER

24513

DRAWINGS MUST NOT BE CALLED ONLY REQUIRED DIMENSIONS TO BE  
 USED DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT  
 OF WORK.

ALL WORK TO BE PERFORMED ACCORDING TO MTN SITE 8778  
 REQUIREMENTS AND THE FOLLOWING DATES:  
 ISSUE 1: 18/01/2012  
 ISSUE 2: 18/01/2012

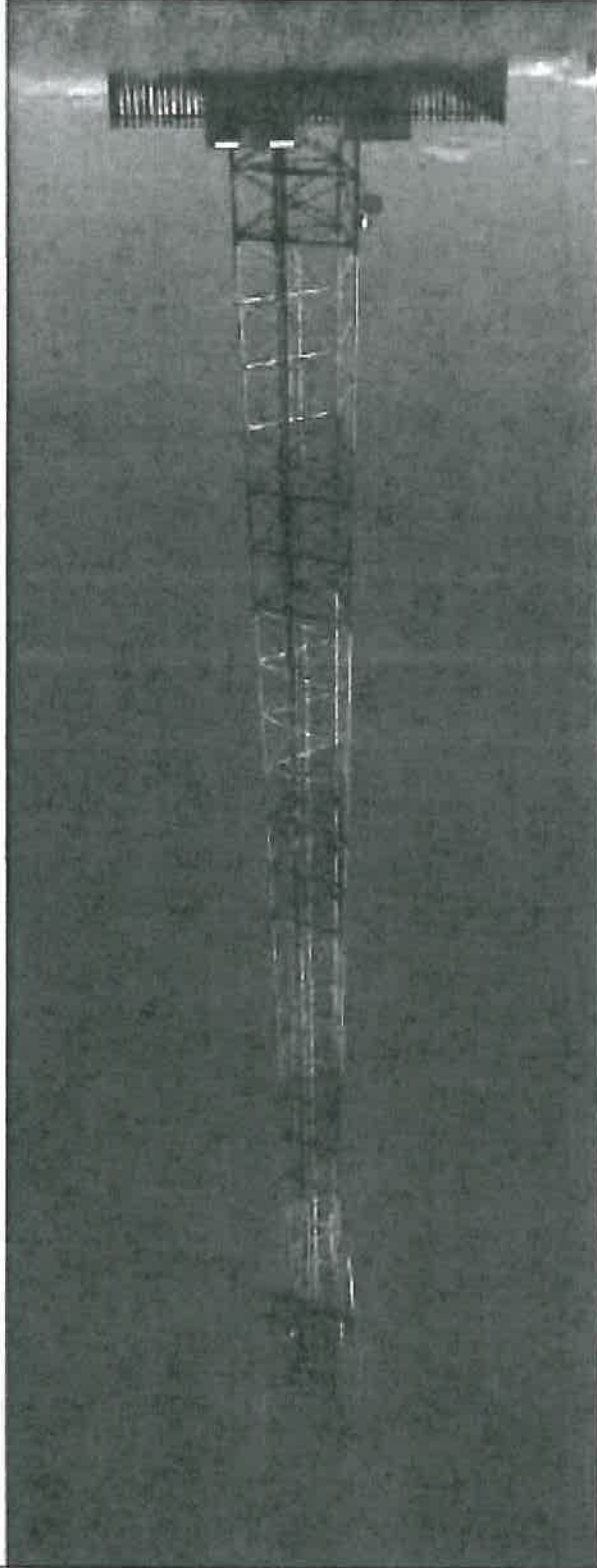
DATE: 18/01/2012

SCALE: 1:75

REF. NO: 81277073

FACILITY ILLUSTRATION  
 SHEET 9 OF 9

TIYPICAL 3-LEGGED LATTICE MAST  
 (PAINTED RED & WHITE)





**REGISTERED LETTER** T7073  
**GEREGISTREERDE BRIEF**  
*(with an insurance option/met 'n versekeringsoptie)*

**Full tracking and tracing/Volledige volg en spoor**

Address to/Bestemming aan  
 South African Heritage Resources Agency  
 P.O. Box 4637

Cape Town 8000 Postcode

The value of the contents of this letter is not declared and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof. Optional insurance up to R2 000.00 is available and applies to domestic registered letters only.

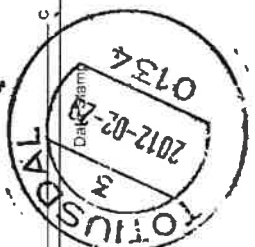
Dit waarde van die inhoud van hierdie brief is nie aangekondig en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering tot R2 000.00 is beskikbaar en is slegs op binnelandse ganspaleerde brieue van toepassing.

Postage paid R \_\_\_\_\_ C  
 Service fee / Diensgeld R \_\_\_\_\_ C  
 Insurance / Versekering R \_\_\_\_\_ C  
**Total / Totaal** R \_\_\_\_\_ C

Insured value of contents  
 Verselwettige waarde van inhoud R \_\_\_\_\_ C

Enquiries/Navrags  
 Toll-free number  
 Tollvry nommer  
 0800 111 502

Affix the **REGISTERED LETTER** with insurance option. Sticker R 02. **R.D. 538 940 576 ZA**  
**CUSTOMER COPY** 30102000  
 Klienlidskryf  
 Peraal van saakbeheerbeampte  
 Datumstempel



Our Reference:  
T7073 / 17/2/3/GS - 84

Your Reference:

29 February 2012

South African Heritage Resources Agency  
P O Box 4637  
Cape Town  
8000



Reg. No. 2001/080535/23  
PO Box 32017, Totusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504 / 6  
Fax: (012) 804 7072  
e-mail: [admin@torbousesolutions.co.za](mailto:admin@torbousesolutions.co.za)

**Via Registered Mail**

**DEAR SIR/MADAM**

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 AS AMENDED ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 (a) & (b) : (a) ii (cc) & (ee) IN REGULATION 546: ESTABLISHMENT OF A VODACOM (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAK FONTEIN 522IS.**

We are acting on behalf of MTN (Pty) Ltd in order to apply to the Mpumalanga Department of Economic Development, Environment and Tourism to establish a telecommunication base station on Portion 12 of the Farm Brakfontein 522 IS.

Attached hereto find:

1. Public Participation notice
2. Site Development plan
3. Facility Illustration

Should you have any further queries, please do not hesitate to contact us.

Yours faithfully

**MONICA NIEHOF**  
For: Torbouse Solutions CC

## PUBLIC PARTICIPATION PROCESS

REFERENCE NUMBER: 17/2/3/GS - 84

Regulation 546 activity 3 (a) & (b) : (a) ii (cc) & (ee): Establishment of an enclosed telecommunication base station with a 54m mast for MTN (Pty) Ltd: T7073 Brakfontein

Location: Portion 12 of the Farm Brakfontein 522 IS

Co-ordinates (WGS84 format) of the alternatives on the above property.

Alternative 1: Latitude: 26° 59' 28.5" S Longitude: 29° 36' 50.8" E  
(Latitude type mast painted red and white)

Notice is hereby given of a public participation process in terms of the Environmental Impact Assessment Regulations 2010 (R543) as amended promulgated in terms of the National Environmental Management Act 1998 (Act No. 107 of 1998) as amended ("NEMA").

Basic assessment procedures will be applied in accordance with regulation 543 and an application was submitted to the Mpumalanga Department of Economic Development, Environment and Tourism.

The applicant furthermore intends to apply to the Mpumalanga Department of Economic Development, Environment and Tourism for exemption in terms of Chapter 5 of the Environmental Impact Assessment Regulations 2010 (R543) to assess alternatives with regard to the planned activity.

### Applicant:

MTN (Pty) Ltd, P.O. Box 4559, Northcliff, 2115.

### Environmental Assessment Practitioner (EAP):

Torbouse Solutions CC.

P.O. Box 32017, Totiusdal, 0134

Attention: Monica Niehof

Telephone: (012) 804 1504/6; Facsimile: (012) 804 7072

E-mail: admin@torbousesolutions.co.za

Further information regarding the proposed activity can be obtained from the EAP.

Any interested and affected party may, **in writing**, make representations on the proposed activity or request to be registered as an interested and affected party, by submitting the written representations or registration request, including their name, physical & postal addresses (including facsimile & e-mail where possible) and contact number(s) and quoting the activity reference number, to the EAP within 30 calendar days from the publication of this notice.

Notice publication date:

16 February 2012

## UHLELO LOKUHLANGANYELA KOMPHEKATHI

INOMBOLO YEREFERENSI: 17/2/3/GS - 84

Umyalelo womithetho 546 umsebenzi 3 (a) & (b) : (a) ii (cc) & (ee): Isakhiwo esiyisizinda sezokuxhumana ngocingo esivalekile se-MTN (Pty) Ltd ene-mast engama-54m kanye nendawo (hezindawo) yokubeka impahla: T7073 Brakfontein

Indawo: Portion 12 of the farm Brakfontein 522 IS

Ezinye izindawo zezizinda ezihlukile ezifana nalesi esingenhla (WGS84 isimo sokwakheka):

Eshlukile 1: Ububanzi: 26° 59' 28.5" S Ubude: 29° 36' 50.8" E  
Induku ye-lattice ependwe ngokubomvu nokumhlophe

Ngalokhu kunikezwa isaziso senqubo yokubamba iqhaza komphakathi ngokuhambisana Nemithetho Yokuhlola Umthetho Wamandla Kwezenhlobo (i-Environmental Impact Assessment Regulations) ka-2010 (R543) njengoba ichibiyelwe yamenyenzelwa ngokuhambisana Nomithetho Wokuphalisa Ezenhlobo Kuzwelonke (i-National Environmental Management Act) ka-1998 (Umthetho weNombolo-107 ka-1998) njengoba uchibiyelwe (i-"NEMA").

Izinqubo eziyisisekelo zokuhlola zizosetshenziswa ngokuvumelana nemiyalelo yomithetho 543 bese kufakwa isicelo eMnyangweni Wezolimo, Ukunakelwa kanye neZemvelo WaseMpumalanga. Umenzi wesicelo uhlose futhi ukwenza isicelo kuMnyango Wezolimo waseMpumalanga, Ukulondolozwa Kwamagugu Nezemvelo ukuze akhuliwe ngokwemibandela yomithetho 5 weMithetho Yokuhlola Kokuhlinteka Kwemvelo ka-2010 (R543) ukuze ahlole ezinye izindlela zokughubeka nomsebenzi ohleliwe.

### Umuntu ofaka isicelo:

MTN (Pty) Ltd, P.O. Box 4559, Northcliff, 2115.

### Isisebenzi Esihlola Ezemvelo (Environmental Assessment Practitioner (EAP)):

Torbouse Solutions CC., P.O. Box 32017, Totiusdal, 0134

kuqondiswe ku- Monica Niehof

Ucingo: (012) 804 1504/6, ifeksi: (012) 804 7072.

i-e-meyili: admin@torbousesolutions.co.za

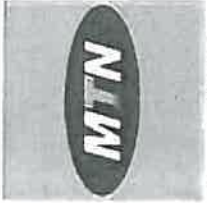
Olunye uhwazi maqondana nalo msebenzi ohlongozwayo lungatholakala ku-EAP.

Nanoma ubani omunye othandayo nothintekayo, **ngokubhala**, makenze isitatimende ngomsebenzi ohlongozwayo noma isicelo sokubhaliswa njengomuntu onohando noma obhitekayo, ngokuthi alethe isitatimende esibhalwe noma isicelo sokubhalisa, namagama abo, ikheli lendawo neleposi (kufakwe ifeksi ne-e-meyili uma kunokwenzeka) kanye nezinombolo zokubathinta futhi basho nenombolo yeratensisi yomsebenzi, ku-EAP ezinsukwini zekhalenda ezingama-30 kusukela ekushicilelweni kwalesi saziso.

Usuku lokushicilelwa kweSaziso:

16 February 2012





127 Princes Road,  
Clare & Malabar Company  
Tel: 071 453 241 2000  
Fax: 071 453 241 2006  
Private Site Use  
Private Site Use  
Private Site Use

**BRAKFONTEIN**  
T7073

**SCALE STATION NUMBER**

REV	DATE	BY	DESCRIPTION
A	19/07/2012	MY	PRINT ISSUE

**NOTES**  
OWNER: WILLEM ADRIANUS ANDRIAS LE ROUX

**STRICTLY CONFIDENTIAL**  
**PROHIBIT DISSEMINATION**  
PORTION 12 OF THE FARM BRAKFONTEIN 522 IS

**COORDINATES**  
LAT: 29° 59' 25.00" S  
LONG: 29° 36' 50.00" E

**PROJECT**  
NEW 500V TELECOMMUNICATION SUBSTATION WITH A  
400V LATTICE MAST FOR MTN (Pty) Ltd

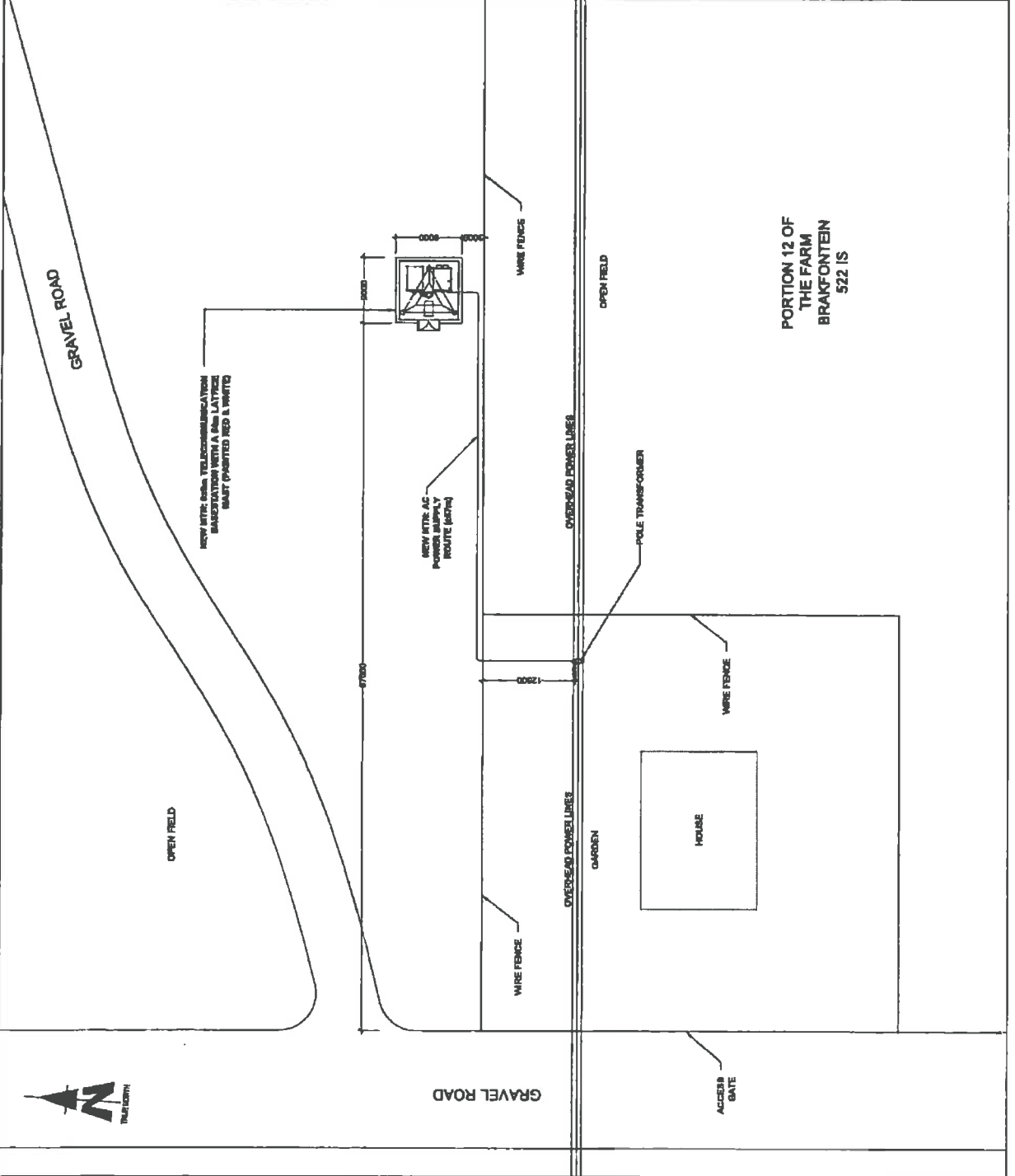
**ADDRESS**  
THE FARM BRAKFONTEIN  
OFF BART ROAD BETWEEN  
SIPPLANDIA AND AMPERSPOORT  
SIPPLANDIA

**INFRASTRUCTURE PLANNING SERVICES**  
IPS  
Tel: 021 453 241 2000  
Fax: 021 453 241 2006  
www.ips.co.za  
REG NO: 14329  
PROFESSIONAL NUMBER: 84813

**DISCLAIMER**  
DRAWINGS MUST NOT BE REPRODUCED, COPIED, REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF THE INFRASTRUCTURE PLANNING SERVICES (Pty) Ltd.  
ALL WORK TO BE PERFORMED ACCORDING TO THE IPRB BTE  
INFRASTRUCTURE REGISTRATION NUMBER: 10001  
ISSUE 1 (Revision 0) (Implementation)

**DRAWN** MELISSA YOUNG **DATE** 19/07/2012  
**SCALE** 1:500 **REF. NO** B1977073

**SITE DEVELOPMENT PLAN**  
SHEET 3 OF 9





1247 Promenade Blvd. Ste. 400 (403) 445-2000  
 Suite B, Lacombe, Alberta T4L 0A6  
 Canada  
 Fax: (403) 445-2005  
 Project No: 1118  
 Project Name: Braakfontein

**SITE NAME** BRAKFONTHEIN

**BASE STATION NUMBER** T7073

REV	DATE	BY	DESCRIPTION
A	18/01/2012	BY	PRINT DRAWING

**NOTES**  
 OWNER: VILLERS AGRICULTURE INC. (MONTREAL)

**PROPERTY DESCRIPTION**  
 STRICTLY CONFIDENTIAL  
 PORTION 13 OF THE FARM BRAKFONTHEIN 822 18

**COORDINATES**  
 LAT: 49° 29' 29.87" N  
 LONG: 107° 24' 00.9" E

**PROJECT**  
 NEW TOWER TELECOMMUNICATION OBSERVATION WITH A  
 3-LEG LATTICE MAST FOR MTN (P71) LTD

**ADDRESS**  
 THE FARM BRAKFONTHEIN  
 PORTION 13 OF THE FARM BRAKFONTHEIN 822 18  
 STRANDBERG AND AMERSFOORT,  
 BRITAINIA/LANGSAAR

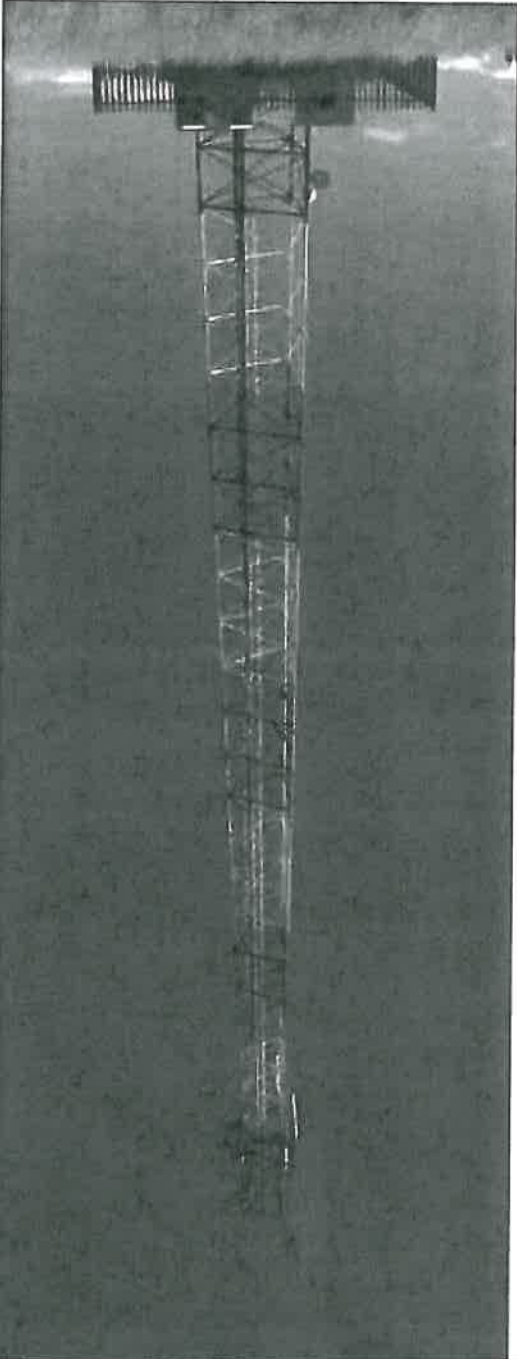


**DATE DRAWN** 18/01/2012  
**SCALE** 1:1000  
**PROJECT NUMBER** 1118  
**DATE** 18/01/2012  
**REF. NO** 81277073

**SCALE** 1:1000  
**DATE** 18/01/2012  
**REF. NO** 81277073

**FACILITY ILLUSTRATION**  
 SHEET 9 OF 9

TYPICAL 3-LEGGED LATTICE MAST  
 (PAINTED RED & WHITE)



**REGISTERED LETTER** T7073  
**GEREGISTREERDE BRIEF**



(With an insurance option/met 'n versekeringsopsie)

Full tracking and tracing/Volledige volg en spoor

Addressed to/Geadresseer aan

W A J Le Roux  
 P O Box 309  
 Morgenster  
 2315 Postcode  
 Poskode

The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof. Content insurance up to R2 000.00 is available and applies to domestic registered letters only.

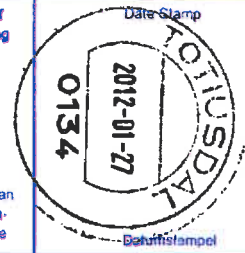
Die waarde van die inhoud van hierdie brief is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word. Die vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentêre bewys beskikbaar nie. Opvullende versekering tot R2 000.00 is beskikbaar en is slegs op binnelandse geregisterde briewe van toepassing.

Postage paid R \_\_\_\_\_ c  
 Service fee / Diensgeld R \_\_\_\_\_ c  
 Insurance / Versekering R \_\_\_\_\_ c  
 Total / Totaal R \_\_\_\_\_ c

Insured value of contents  
 Versekerde waarde van inhoud R \_\_\_\_\_ c

Enquires/Navrae  
 Toll-free number  
 Tolvry nommer  
 0800 111 502

Initial of  
 accepting  
 officer



Affix Track and Trace

**REGISTERED LETTER**  
 (with a domestic insurance option)  
 Diensbrief (met 'n binnelandse versekeringsopsie)  
 RD 604 457 628 Z.A.

Paraaf van  
 aaneem-  
 beampte

CUSTOMER COPY 381026R

Leprosia Logo Product 011-4951992 781281

Our Reference:  
T7073

Your Reference:

30 January 2012

Mr W A J Le Roux  
P O Box 309  
Morgenzon  
2315



Reg. No. 2001/080535/23  
PO Box 32017, Totiusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504 / 6  
Fax: (012) 804 7072

e-mail: admin@torbiousolutions.co.za

**Via Registered Mail**

**DEAR SIR**

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 ("NEMA") AS AMENDED TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFORTEIN 522 IS.**

We are acting on behalf of MTN (Pty) Ltd, who have appointed us as Environmental Assessment Practitioner (EAP), in order to apply to the Mpumalanga Department of Economic Development, Environment and Tourism to establish a telecommunication base station on your property, Portion 12 of the Farm Brakfontein 522 IS located on Farm Brakfontein, dirt road between Standerton and Amersfoort. In accordance with the regulations you as the land owner are hereby notified of the Public Participation process for the Environmental Impact Assessment.

Public participation is a process in which potential interested and affected parties are given the opportunity to comment on, or raise issues relevant to specific matters. These comments and issues form part of the total consideration by the competent authority i.e. the Mpumalanga Department of Economic Development, Environment and Tourism. It should however be understood that the competent authority is also guided by several other authorities, policies and facts in order to make their decision to grant environmental authority or not.

Attached hereto find the following for your information: 1. Public Participation Notice; 2. Site Development Plan; 3. Facility illustration and 4. Cadastral map.

We trust that the above attached information assists in obtaining further insight into what is proposed and what shall be considered with regard to the application. Should you need any further information please do not hesitate to contact us.

Yours faithfully,

  
**MONICA NIEHOF**  
For: Torbious Solutions CC

---

Members: GA Anholts; KW Anholts

## PUBLIC PARTICIPATION PROCESS

Regulation 546 activity 3 : Establishment of an enclosed telecommunication base station with a 54m mast for MTN (Pty) Ltd: T7073 Brakfontein

Location: Portion 12 of the Farm Brakfontein 522 IS

Co-ordinates (WGS84 format) of the alternatives on the above property.

Alternative 1: Latitude: 26° 59' 28.50"S Longitude: 29° 36' 50.80" E  
Lattice type mast painted red and white

Notice is hereby given of a public participation process in terms of the Environmental Impact Assessment Regulations 2010 (R543) as amended promulgated in terms of the National Environmental Management Act 1998 (Act No. 107 of 1998) as amended ("NEMA").

Basic assessment procedures will be applied in accordance with regulation 543 and an application was submitted to the Mpumalanga Department of Economic Development, Environment and Tourism.

The applicant furthermore intends to apply to the Mpumalanga Department of Economic Development, Environment and Tourism for exemption in terms of regulation 50(1) of the Environmental Impact Assessment Regulations 2010 (R543) to assess alternatives with regard to the planned activity.

**Applicant:**  
MTN (Pty) Ltd, P.O. Box 4559, Northcliff, 2115.  
**Environmental Assessment Practitioner (EAP):**  
Torbouse Solutions CC.  
P.O. Box 32017, Totiusdal, 0134  
Attention: M Niehof  
Telephone: (012) 804 1504/6; Facsimile: (012) 804 7072  
E-mail: admin@torbousesolutions.co.za

Further information regarding the proposed activity can be obtained from the EAP.

Any interested and affected party may, in writing, make representations on the proposed activity or request to be registered as an interested and affected party, by submitting the written representations or registration request, including their name, physical & postal addresses (including facsimile & e-mail where possible) and contact number(s) and quoting the activity reference number, to the EAP within 30 calendar days from the publication of this notice.

## UHLILO LOKUHLANGANYELA KOMPHEKATHI

Umyalelo womthetho 546 umsebenzi 3 : Isakhwo esiyisizinda sezokuxhumana ngocingo esivalekile se-MTN (Pty) Ltd ene-mast engama-54m kanye neridawo (nezidawo) yokubeka impahla: T7073 Brakfontein

Indawo: Portion 12 of the Farm Brakfontein 522 IS

Ezinye izindawo zezizinda ezihlukile ezifana nalezi esingenhla (WGS84 isimo sokwakheka):

Esihlukile 1: Ububanzi: 26° 59' 28.50"S Ubude: 29° 36' 50.80"E  
Induku ye-lattice epandwe ngokubomvu nokumhlophe

Ngalokhu kunikezwa isaziso senqubo yokubamba iqhaza komphakathi ngokuhambisana Nemithetho Yokuhlola Umthelela Wamandla Kwezenhlobo (i-Environmental Impact Assessment Regulations) ka-2010 (R543) njengoba ichibiyelwe yamanyezelwa ngokuhambisana Nomthetho Wokuphatha Ezenhlobo —Kuzwelonke (i-National Environmental Management Act) ka-1998 (Umthetho weNombolo-107 ka-1998) njengoba uchibiyelwe (i-"NEMA").

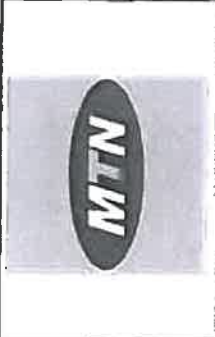
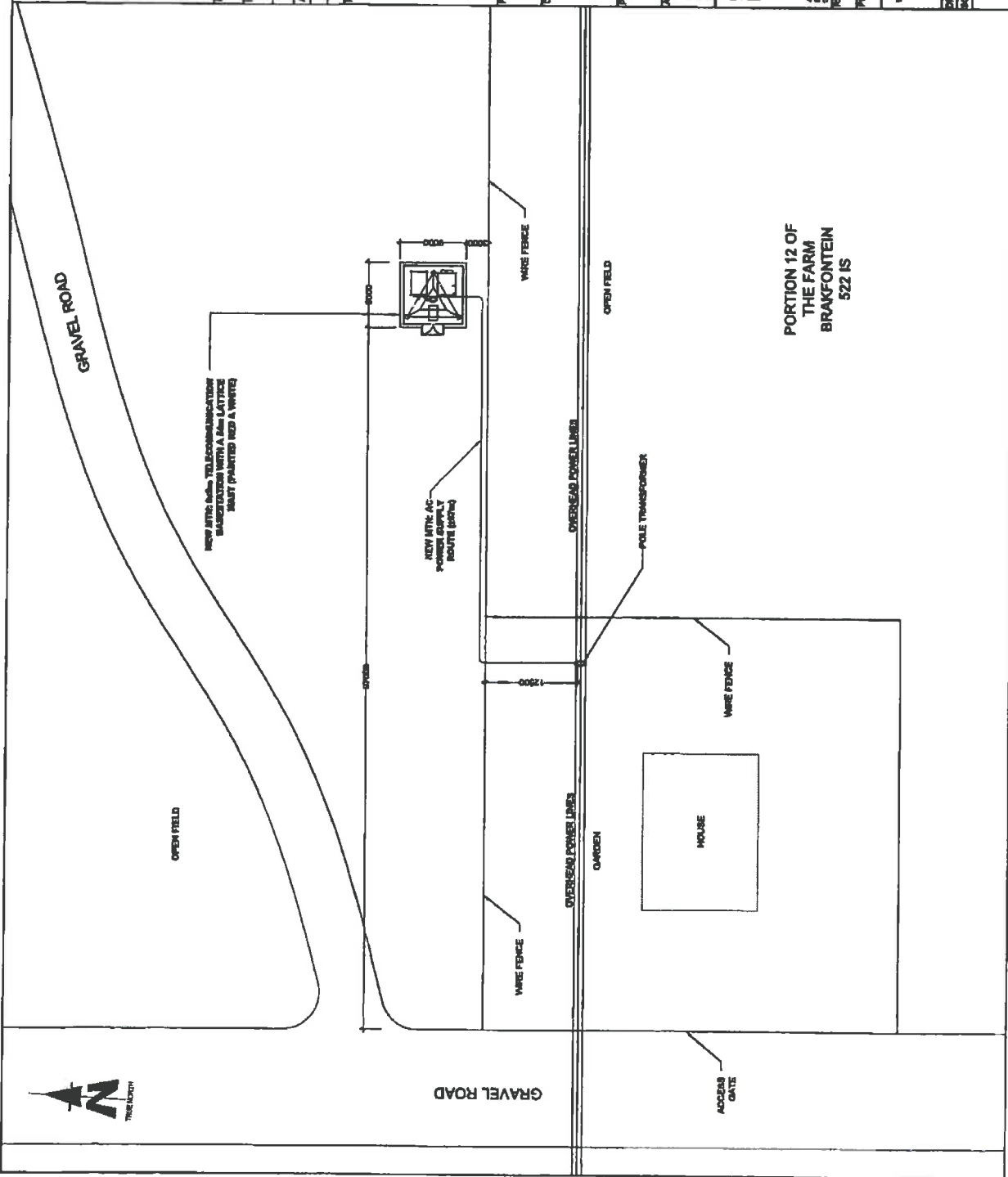
Izinqubo eziyisisekelo zokuhlola zizosetshenziswa ngokuvumelana nemiyalelo yomthetho 543 bese kufakwa isicelo eMnyangweni Wezolimo, Ukunakekela kanye neZemvelo WaseMpumalanga.

Umenzi wesicelo uhlose futhi ukwenza isicelo kuMnyango Wezolimo waseMpumalanga, Ukulondolozwa Kwamagugu Nezemvelo ukuze akhululwe ngokwemibandela yomthetho 50(1) weMithetho Yokuhlola Kokuthinteka Kwemvelo ka-2010 (R543) ukuze ahlole ezinye izindlela zokuqhubeka nomsebenzi ohleliwe. Umuntu ofaka isicelo: MTN (Pty) Ltd, P.O. Box 4559, Northcliff, 2115.

**Isisebenzi Esihlola Ezemvelo (Environmental Assessment Practitioner (EAP)):**  
Torbouse Solutions CC., P.O. Box 32017, Totiusdal, 0134  
kugondiswe ku- M Niehof.  
Ucingo: (012) 804 1504/6, Ifeksi: (012) 804 7072.  
I-e-meyili: admin@torbousesolutions.co.za

Olunye uhvazi maqondana nalo msebenzi ohlongozwayo lungatholakala ku-EAP.

Nanoma ubani omunye oihandayo nohlinlekayo, ngokubhala, makenze isitatimende ngomsebenzi ohlongozwayo noma isicelo sokubhaliswa njengomuntu onothando noma othintekayo, ngokuthi alethe isitatimende esibhalwe noma isicelo sokubhalisa, namagama abo, ikhefi lendawo nелеposi (kufakwa ifeksi ne-e-meyili uma kunokwenzeka) kanye nezimbobo zokubathinta futhi basho nenombolo yererefensi yomsebenzi, ku-EAP ezinsukwini zekhalenda ezingama-30 kusukela ekushicilelweni kwalesi saziso.



1877 Pretoria Street  
 Midrand, 2008  
 Tel: 011 799 1000  
 Fax: 011 799 1000  
 www.mtn.com

**BRAKFONTEIN**

**DATE: 15/08/2012**

**PROJECT NUMBER: T7073**

REV	DATE	BY	DESCRIPTION
A	15/08/12	UY	FINAL DESIGN

**NOTE:**  
 OWNER: WILLEM ADRIANUS ANDELIUS NIELS

STRICTLY COMPANY CONFIDENTIAL  
 PROPERTY DESCRIPTION:  
 PORTION 12 OF THE FARM BRAKFONTein 522 B

**COORDINATES:**  
 LAT: 28° 29' 28.50" S  
 LONG: 28° 36' 28.00" E

**PROJECT:**  
 NEW 15KV TELECOMMUNICATIONS SUBSTATION WITH A 15m LATTICE MAST FOR MTN (PTY) LTD.

**ADDRESS:**  
 THE FARM BRAKFONTein  
 SITE 001, 002, 003, 004, 005  
 STANSTONEN AND ANDERSPOORT,  
 MPUMALANGA



**PREPARED BY:**  
 Tel: 011 799 1000  
 Fax: 011 799 1000  
 www.mtn.com

**PROJECT NUMBER:**  
 T7073

**DATE:**  
 15/08/2012

**SCALE:** 1:500  
**REF. NO.:** B1077073  
**SITE DEVELOPMENT PLAN**  
**SHEET 3 OF 9**

**OWNER:** WILLEM ADRIANUS ANDELIUS NIELS  
**DATE:** 15/08/2012  
**REF. NO.:** B1077073

PORTION 12 OF  
 THE FARM  
 BRAKFONTein  
 522 IS















<b>Date stamp of delivery</b>  <b>Datumstempel van aflewering</b>	<b>REGISTERED LETTER</b> <b>GEREGISTREERDE BRIEF</b> (with an insurance option/met 'n verskeringsopsie) No <u>T7073</u> Post Office 	<b>Date stamp of delivery</b>  <b>Datumstempel van aflewering</b>
Initial of delivery officer Paraaf van aflewingsbeampte	Addressed to/Geadresseer aan <u>Mrs. A. van der Westhuizen</u> <u>P.O. Box 2346</u> <u>Bontbors Spruit</u> <u>1020</u> Postcode Postkode	Initial of receiving officer Paraaf van ontvangsbeampte
Official proof of identification essential Amptelike bewys van identifikasie noodsaaklik		Signature of recipient Handtekening van ontvanger <b>REGISTERED LETTER</b> <small>(with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> <b>RD 604 396 977 ZA</b> CUSTOMER COPY 301028R
Please collect at Haal asseblief af by _____ within 30 days of date received at delivery office/ binne 30 dae vanaf datum ontvang by afleweringkantoor		Post Office, counter No Poskantoor, toonbanknr _____
Masqhome Printers & Stationery		701282

<b>Date stamp of delivery</b>  <b>Datumstempel van aflewering</b>	<b>REGISTERED LETTER</b> <b>GEREGISTREERDE BRIEF</b> (with an insurance option/met 'n verskeringsopsie) No <u>T7073</u> Post Office 	<b>Date stamp of delivery</b>  <b>Datumstempel van aflewering</b>
Initial of delivery officer Paraaf van aflewingsbeampte	Addressed to/Geadresseer aan <u>Mr. W. de la Rux</u> <u>P.O. Box 209</u> <u>Morgenster</u> <u>2315</u> Postcode Postkode	Initial of receiving officer Paraaf van ontvangsbeampte
Official proof of identification essential Amptelike bewys van identifikasie noodsaaklik		Signature of recipient Handtekening van ontvanger <b>REGISTERED LETTER</b> <small>(with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> <b>RD 604 396 901 ZA</b> CUSTOMER COPY 301028R
Please collect at Haal asseblief af by _____ within 30 days of date received at delivery office/ binne 30 dae vanaf datum ontvang by afleweringkantoor		Post Office, counter No Poskantoor, toonbanknr _____
Masqhome Printers & Stationery		701282

<b>Date stamp of delivery</b>  <b>Datumstempel van aflewering</b>	<b>REGISTERED LETTER</b> <b>GEREGISTREERDE BRIEF</b> (with an insurance option/met 'n verskeringsopsie) No <u>T7073</u> Post Office 	<b>Date stamp of delivery</b>  <b>Datumstempel van aflewering</b>
Initial of delivery officer Paraaf van aflewingsbeampte	Addressed to/Geadresseer aan <u>National Government of</u> <u>The Republic of South Africa</u> <u>Private Bag X3</u> <u>Braamfontein</u> <u>2017</u> Postcode Postkode	Initial of receiving officer Paraaf van ontvangsbeampte
Official proof of identification essential Amptelike bewys van identifikasie noodsaaklik		Signature of recipient Handtekening van ontvanger <b>REGISTERED LETTER</b> <small>(with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> <b>RD 604 396 915 ZA</b> CUSTOMER COPY 301028R
Please collect at Haal asseblief af by _____ within 30 days of date received at delivery office/ binne 30 dae vanaf datum ontvang by afleweringkantoor		Post Office, counter No Poskantoor, toonbanknr _____
Masqhome Printers & Stationery		701282

<b>Date stamp of delivery</b>  <b>Datumstempel van aflewering</b>	<b>REGISTERED LETTER</b> <b>GEREGISTREERDE BRIEF</b> (with an insurance option/met 'n verskeringsopsie) No <u>T7073</u> Post Office 	<b>Date stamp of delivery</b>  <b>Datumstempel van aflewering</b>
Initial of delivery officer Paraaf van aflewingsbeampte	Addressed to/Geadresseer aan <u>Dersfontein Coal mines</u> <u>P.O. Box 2344</u> <u>Saxonworld</u> <u>Jan van Rensburg</u> <u>0130</u> Postcode Postkode	Initial of receiving officer Paraaf van ontvangsbeampte
Official proof of identification essential Amptelike bewys van identifikasie noodsaaklik		Signature of recipient Handtekening van ontvanger <b>REGISTERED LETTER</b> <small>(with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> <b>RD 604 396 929 ZA</b> CUSTOMER COPY 301028R
Please collect at Haal asseblief af by _____ within 30 days of date received at delivery office/ binne 30 dae vanaf datum ontvang by afleweringkantoor		Post Office, counter No Poskantoor, toonbanknr _____
Masqhome Printers & Stationery		701282



17 February 2012

**Owner of Remaining Extent Portion 13  
of the farm Grootvley 51 HS**  
National Government of The Republic of South Africa  
Private Bag x3  
Braamfontein  
2017

**Reg. No. 2001/080535/23**  
PO Box 32017, Totiusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

**Tel: (012) 804 1504 / 6**  
**Fax: (012) 804 7072**  
**e-mail: admin@torbiousesolutions.co.za**

**Via Registered Mail**

**DEAR SIR/MADAM**

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 AS AMENDED ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 (a) & (b) : (a) ii (cc) and (ee) IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFRONTEIN 522 IS.**

We are acting on behalf of MTN (Pty) Ltd in order to apply to the Mpumalanga Department of Economic Development, Environmental and Tourism to establish a telecommunication base station on **Portion 12 of the Farm Brakfontein 522 IS**

Attached hereto find:

1. Public Participation notice
2. Site Development plan
3. Facility Illustration

Should you have any further queries, please do not hesitate to contact us.

Yours faithfully

P.P. *M Niehof*

**M NIEHOF**

For: Torbiouse Solutions CC

17 February 2012

**Owner of Remaining Extent Portion 1 and Portion 13  
of the farm Brakfontein 522 IS**  
Mrs A. Van der Westhuizen  
P.O. Box 2346  
Bronkhorstspuit  
1020



Reg. No. 2001/080535/23  
PO Box 32017, Totiusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504 / 6  
Fax: (012) 804 7072  
e-mail: admin@torbiouseolutions.co.za

**Via Registered Mail**

**DEAR SIR/MADAM**

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 AS AMENDED ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 (a) & (b) : (a) ii (cc) & (ee) IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFONTein 522 IS.**

We are acting on behalf of MTN (Pty) Ltd in order to apply to the Mpumalanga Department of Economic Development, Environmental and Tourism to establish a telecommunication base station on **Portion 12 of the Farm Brakfontein 522 IS**

Attached hereto find:

1. Public Participation notice
2. Site Development plan
3. Facility Illustration

Should you have any further queries, please do not hesitate to contact us.

Yours faithfully

P.P. 

**M NIEHOF**  
For: Torbiouse Solutions CC

17 February 2012

**Owner of Remaining Extent Portion 4  
of the farm Brakfontein 522 IS**

Mr. W. A. J. Le Roux  
P.O. Box 309  
Morgenzon  
2315



Reg. No. 2001/080535/23  
PO Box 32017, Totiusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504 / 6  
Fax: (012) 804 7072  
e-mail: [admin@torbiousolutions.co.za](mailto:admin@torbiousolutions.co.za)

**Via Registered Mail**

**DEAR SIR/MADAM**

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 AS AMENDED ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 (a) & (b) : (a) ii (cc) and (ee) IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFONTein 522 IS.**

We are acting on behalf of MTN (Pty) Ltd in order to apply to the Mpumalanga Department of Economic Development, Environmental and Tourism to establish a telecommunication base station on **Portion 12 of the Farm Brakfontein 522 IS**

Attached hereto find:

1. Public Participation notice
2. Site Development plan
3. Facility Illustration

Should you have any further queries, please do not hesitate to contact us.

Yours faithfully

p.p. 

**M NIEHOF**  
For: Torbious Solutions CC



Our Reference:  
T7073 / 17/2/3/GS – 84

Your Reference:

29 March 2012

**Owner Portion 4 of The Farm Potfontein 55 HS**  
Mr W A J Le Roux  
P O Box 309  
Morgenzon  
2315



Reg. No. 2001/080535/23  
PO Box 32017, Totiusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504 / 6  
Fax: (012) 804 7072  
e-mail: [admin@torbiousesolutions.co.za](mailto:admin@torbiousesolutions.co.za)

**Via Registered Mail**

**DEAR SIR/MADAM**

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 AS AMENDED ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFONTein 522 IS.**

We are acting on behalf of MTN (Pty) Ltd in order to apply to the Mpumalanga Department of Economic Development, Environmental and Tourism to establish a telecommunication base station on **Portion 12 of the Farm Brakfontein 522 IS**

Attached hereto find:

1. Public Participation notice
2. Site Development plan
3. Facility Illustration

Should you have any further queries, please do not hesitate to contact us.

Yours faithfully

**M NIEHOF**  
For: Torbiouse Solutions CC

Our Reference:  
T7073 / 17/2/3/GS – 84

Your Reference:

29 March 2012

**Owner of the Remaining Extent of Portion 1 of  
The Farm Potfontein 55 HS**  
Mr N D Malinga  
P O Box 288  
Amersfoort  
2490



Reg. No. 2001/080535/23  
PO Box 32017, Totiusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504 / 6  
Fax: (012) 804 7072  
e-mail: [admin@torbiousolutions.co.za](mailto:admin@torbiousolutions.co.za)

**Via Registered Mail**

**DEAR SIR/MADAM**

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 AS AMENDED ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFONTein 522 IS.**

We are acting on behalf of MTN (Pty) Ltd in order to apply to the Mpumalanga Department of Economic Development, Environmental and Tourism to establish a telecommunication base station on **Portion 12 of the Farm Brakfontein 522 IS**

Attached hereto find:

1. Public Participation notice
2. Site Development plan
3. Facility Illustration

Should you have any further queries, please do not hesitate to contact us.

Yours faithfully

A handwritten signature in black ink, appearing to read 'M. Niehof'.

**M NIEHOF**  
For: Torbious Solutions CC



Our Reference:  
T7073 / 17/2/3/GS – 84

Your Reference:

4 July 2012

**Representative of the Remaining Extent of Portion 1 of  
The Farm Potfontein 55 HS**  
Mr MC Malinga  
P O Box 288  
Amersfoort  
2490



Reg. No. 2001/080535/23  
PO Box 32017, Tottusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504 / 6  
Fax: (012) 804 7072

e-mail: [admin@torblousesolutions.co.z](mailto:admin@torblousesolutions.co.z)

**Via Registered Mail**

**DEAR SIR,**

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 AS AMENDED ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAK FONTEIN 522 IS.**

In response to your letter faxed dated 24 April 2012, we would like to bring to your attention that the proposed mast will not be installed on the farm of your late father, but on Portion 12 of the Farm Brakfontein 522 IS. Therefore the applicant (MTN (Pty) Ltd) will not contact you with regards to lease negotiations.

You were informed of the application for environmental authorisation as part of a public participation process of which the law requires that we notify all owners of properties bordering on the property where the mast will be located.

For any further queries, please do not hesitate to contact us.

Kind regards,

A handwritten signature in black ink, appearing to be 'M Niehof', written in a cursive style.

**M NIEHOF**

For: Torblouse Solutions CC

---

Members: GA Anholts; KW Anholts



**REGISTERED LETTER**  
**GEREGISTREERDE BRIEF**

(with an insurance option/met 'n versekeringsopsie)

Full tracking and tracing/Volledige volg en spoor

Addressed to/Geadresseer aan  
 Ms. M.C. Malingo

P.O. Box 2878  
 Amersfoort

Postcode  
 21490

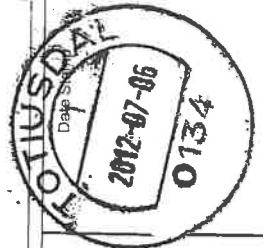
Postage paid R \_\_\_\_\_ C  
 Service fee / Diensgeld R \_\_\_\_\_ C  
 Insurance / Versekering R \_\_\_\_\_ C  
 Total / Totaal R \_\_\_\_\_ C

Insured value of contents  
 Versekerde waarde van inhoud R \_\_\_\_\_ C

Enquiries/Navrae  
 Toll-free number  
 Tollvry nommer  
 0800 111 502

REGISTERED LETTER  
 (with a delivery receipt)  
 RD 538 901 691 ZA  
 CUSTOMER COPY 301028R  
 Identifikasie

Initial of accepting officer  
 Paraaf van aanvaarbeampte  
 Datumstempel



The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance up to R2 000,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie brief is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.

TO : TORBIOUSE SOLUTION  
FROM : MANQOBA C. MALINGA  
REF : T7073/17/2/3/GS-04  
DATE : 24-04-2012  
TEL : 014 573 1605  
CELL : 082 508 7415

DEAR SIR/MADAM

SUBJECT: IN RESPOND TO THE LETTER ATTACHED

IM THE EXECUTOR OF THE BRAK FONTEIN FARM AFTER MY LATE FATHER  
(MR N.D MALINGA).

I HEREBY TO SAY MY CONCERN AS FAR AS MTN WANTS TO INSTALL LATICE  
MAST STATION IN THE FARM STATED ABOVE.

THIS INSTALLATION CAN ONLY BE DONE AFTER A PROOF OF COMPENSATION  
FROM MTN (TORBIOUSE SOLUTION) AND THAT ALL PARTIES WOULD BE AGREED

TORBIOUSE SOLUTION CAN PUT AN OFFER ON A TABLE, AND THEN WE CAN NEGOTIATE.

YOURS FAITHFULLY

*M.C. Malinga*  
.....  
M.C. MALINGA

Our Reference:  
T7073 / 17/2/3/GS - 84

Your Reference:

29 March 2012

Owner of the Remaining Extent of Portion 1 of  
The Farm Pottfontein 55 HS  
Mr N D Malinga  
P O Box 288  
Amersfoort  
2490



Reg. No. 2001/080535/23  
PO Box 32017, Tetuudal, 0134  
414 Rustic Road  
Silvertondale, 0104  
Pretoria

Tel: (012) 804 1604 / 6  
Fax: (012) 804 7072  
e-mail: admin@torbiousolutions.co.za

Via Registered Mail

DEAR SIR/MADAM

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1988 AS AMENDED ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 IN REGULATION 548: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFONTein 522 IS.**

We are acting on behalf of MTN (Pty) Ltd in order to apply to the Mpumalanga Department of Economic Development, Environmental and Tourism to establish a telecommunication base station on Portion 12 of the Farm Brakfontein 522 IS

Attached hereto find:

1. Public Participation notice
2. Site Development plan
3. Facility Illustration

Should you have any further queries, please do not hesitate to contact us.

Yours faithfully

  
M NIEHOF  
For: Torbious Solutions CC

Members: GA Anholts; KW Anholts

Our Reference:  
T7073 / 17/2/3/GS – 84

Your Reference:

29 March 2012

**Owner Remaining Extent of Portion 2 of  
The Farm Potfontein 55 HS**  
Mr J W Payne  
P O Box 1684  
Standerton  
2430



Reg. No. 2001/080535/23  
PO Box 32017, Totiusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504 / 6  
Fax: (012) 804 7072  
e-mail: admin@torbiouseolutions.co.za

**Via Registered Mail**

**DEAR SIR/MADAM**

**INTENTION TO SUBMIT AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 AS AMENDED ("NEMA") TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION BASE STATION ON PORTION 12 OF THE FARM BRAKFONTein 522 IS.**

We are acting on behalf of MTN (Pty) Ltd in order to apply to the Mpumalanga Department of Economic Development, Environmental and Tourism to establish a telecommunication base station on **Portion 12 of the Farm Brakfontein 522 IS**

Attached hereto find:

1. Public Participation notice
2. Site Development plan
3. Facility Illustration

Should you have any further queries, please do not hesitate to contact us.

Yours faithfully

**M NIEHOF**  
For: Torbiouse Solutions CC

## PUBLIC PARTICIPATION PROCESS

REFERENCE NUMBER: 17/2/3/GS - 84

Regulation 546 activity 3 (a) & (b) : (a) ii (cc) & (ee): Establishment of an enclosed telecommunication base station with a 54m mast for MTN (Pty) Ltd: T7073 Brakfontein

Location: Portion 12 of the Farm Brakfontein 522 IS

Co-ordinates (WGS84 format) of the alternatives on the above property.

Alternative 1: Latitude: 26° 59' 28.5" S Longitude: 29° 36' 50.8" E  
(Latitude type mast painted red and white)

Notice is hereby given of a public participation process in terms of the Environmental Impact Assessment Regulations 2010 (R543) as amended promulgated in terms of the National Environmental Management Act 1998 (Act No. 107 of 1998) as amended ("NEMA").

Basic assessment procedures will be applied in accordance with regulation 543 and an application was submitted to the Mpumalanga Department of Economic Development, Environment and Tourism.

The applicant furthermore intends to apply to the Mpumalanga Department of Economic Development, Environment and Tourism for exemption in terms of Chapter 5 of the Environmental Impact Assessment Regulations 2010 (R543) to assess alternatives with regard to the planned activity.

### Applicant:

MTN (Pty) Ltd, P.O. Box 4558, Northcliff, 2115.

### Environmental Assessment Practitioner (EAP):

Torbiose Solutions CC.

P.O. Box 32017, Toliudal, 0134

Attention: Monica Niehof

Telephone: (012) 804 1504/6; Facsimile: (012) 804 7072

E-mail: admin@torbiosesolutions.co.za

Further information regarding the proposed activity can be obtained from the EAP.

Any interested and affected party may, in writing, make representations on the proposed activity or request to be registered as an interested and affected party, by submitting the written representations or registration request, including their name, physical & postal addresses (including facsimile & e-mail where possible) and contact number(s) and quoting the activity reference number, to the EAP within 30 calendar days from the publication of this notice.

Notice publication date:

29 March 2012

## UHLELO LOKUHLANGANYELA KOMPHEKATHI

INOMBOLO YEREFERENSI: 17/2/3/GS - 84

Umyalelo womthetho 546 umsebenzi 3 (a) & (b) : (a) ii (cc) & (ee): Isakhiwo esiyizizinda sezokuxhumana ngcingo esivalekile se-MTN (Pty) Ltd ene-mast engama-54m kanye nendawo (nezindawo) yokubeka impahla: T7073 Brakfontein

Indawo: Portion 12 of the farm Brakfontein 522 IS

Ezinye izindawo zezizinda ezihlukile ezifana nalesi esingenhla (WGS84 isimo sokwakheka):

Eshlukile 1: Ububanzi: 26° 59' 28.5" S Ubude: 29° 36' 50.8" E  
Induku ye-lattice ependwe ngokubomvu nokumhlophe

Ngalokhu kumikezwa isaziso senqubo yokubamba iqhaza komphakathi ngokuhambisana Nemithetho Yokuhlola Umthelela Wamandla Kwezenhlobo (I-Environmental Impact Assessment Regulations) ka-2010 (R543) njengoba ichibiyelwe yamanyezelwa ngokuhambisana Nemithetho Wokuphatha Ezenhlobo Kuzwelonke (I-National Environmental Management Act) ka-1998 (Umthetho weNombolo-107 ka-1998) njengoba uchibiyelwe (I-"NEMA").

Izinqubo ezizisisekelo zokuhlola zizosetshenziswa ngokuvumelana nemiyalelo yomthetho 543 bese kufakwa isicelo eMnyangweni Wezolimo, Ukunakekwa kanye neZemvelo WaseMpumalanga. Umenzi wesicelo uhlose futhi ukwenza isicelo kuMnyango Wezolimo waseMpumalanga, Ukulondolozwa Kwamagugu Nezemvelo ukuze akhululwe ngokwemibandela yomthetho 5 weMithetho Yokuhlola Kokuhinteka Kwemvelo ka-2010 (R543) ukuze ahlole ezinye izindlela zokuqhubeka nomsebenzi ohleliwe.

### Umuntu ofaka isicelo:

MTN (Pty) Ltd, P.O. Box 4558, Northcliff, 2115.

### Isisebenzi Eshiloa Ezemvelo (Environmental Assessment Practitioner (EAP)):

Torbiose Solutions CC., P.O. Box 32017, Toliudal, 0134

kuqondiswe ku- Monica Niehof

Ucingo: (012) 804 1504/6, Ifeksi: (012) 804 7072,

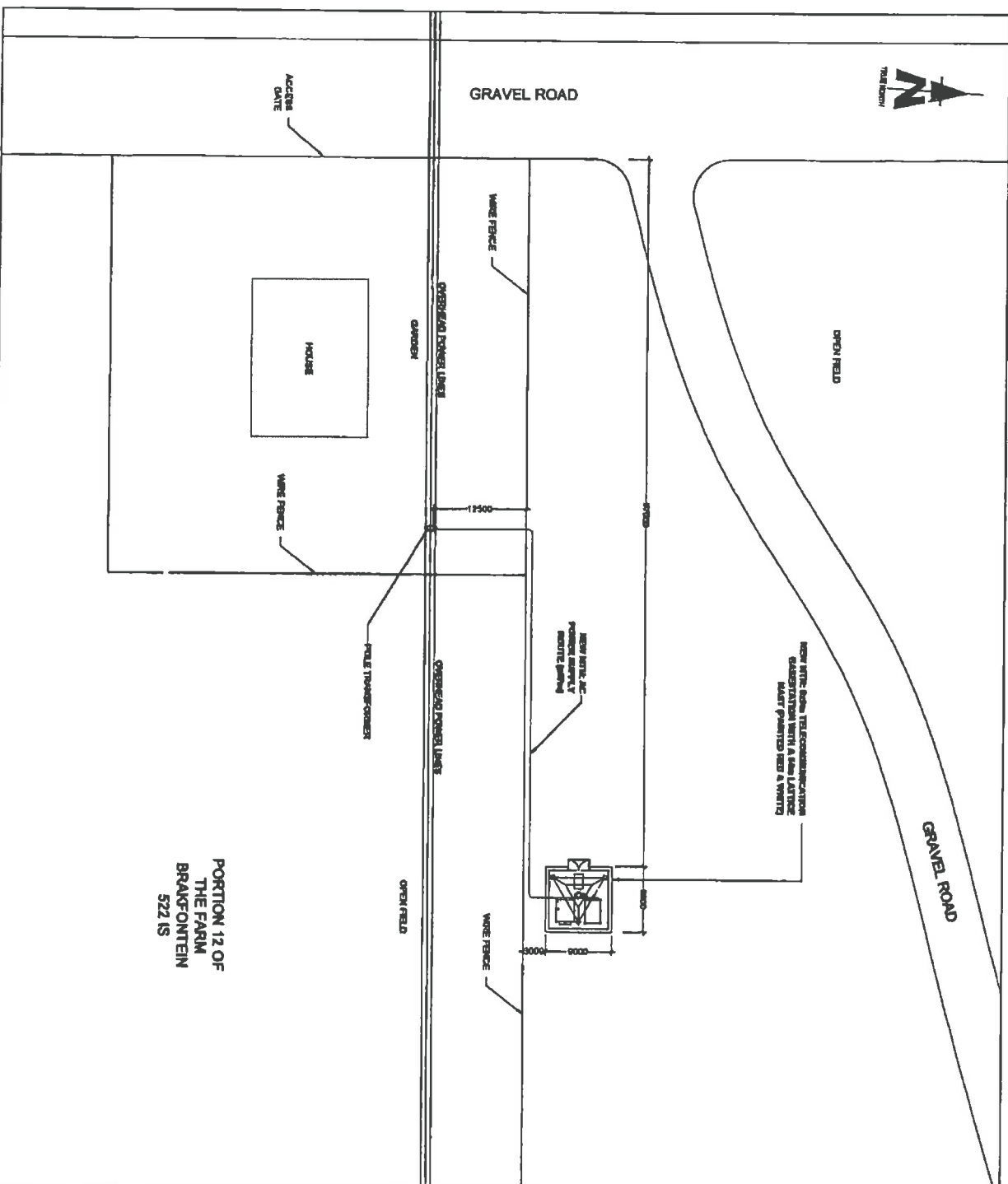
i-e-meyili: admin@torbiosesolutions.co.za

Olu nye uhwazi maqondana nalo msebenzi ohlangezwayo lungatholakala ku-EAP.

Nanoma ubani omunye othandayo nohintekayo, ngokubhala, makenze isitatimende ngomsebenzi ohlangezwayo noma isicelo sokubhaliswa njengomuntu onothando noma oshintekayo, ngokuthi alethe isitatimende esibhalwe noma isicelo sokubhalisa, namagama abo, ikheili lendawo neleposi (kufakwa ifeksi ne-e-meyili uma kunokwenzeka) kanye nezinhombolo zokubathinisa futhi basho nenombolo yerferensi yomsebenzi, ku-EAP ezinsukwini zekhalenda ezingama-30 kusukela ekushicilelweni kwalesi saziso.

Usuku lokushicilelwa kweSaziso:

29 March 2012



PORTION 12 OF  
THE FARM  
BRAKFONTAIN  
522 IS



1977 Pretorius Street  
Level 2, Sandton, Gauteng  
1609  
Tel: +27 (0)11 633 8888  
Fax: +27 (0)11 633 8999  
www.mtn.com

SITE TITLE: BRAKFONTAIN

BASE STATION NUMBER: T7073

REV	DATE	BY	DESCRIPTION
A	18/01/2012	MY	PRINT SCALE

DESIGNER: MELISSA YOUNG ARCHITECTURAL PRACTICE

STRICTLY CONFIDENTIAL

PROPERTY DESCRIPTION: PORTION 12 OF THE FARM BRAKFONTAIN 522 IS

COORDINATE: 27° 52' 30.00" S  
31° 02' 30.00" E

PROJECT: NEW WIRE-LESS TELECOMMUNICATIONS ANTENNA WITH A 10m LATTICE MAST (PREFERRED) AND 6 WINDS

ADDRESSES: THE FARM BRAKFONTAIN, STANDERTON AND ABERHOPE, BRUNNENBURG

INFRASTRUCTURE PLANNING SERVICES

Project No: 104  
Date: 18/01/2012  
Scale: 1:500

DESIGNER: MELISSA YOUNG ARCHITECTURAL PRACTICE  
DATE: 18/01/2012  
REF. NO: A1217172

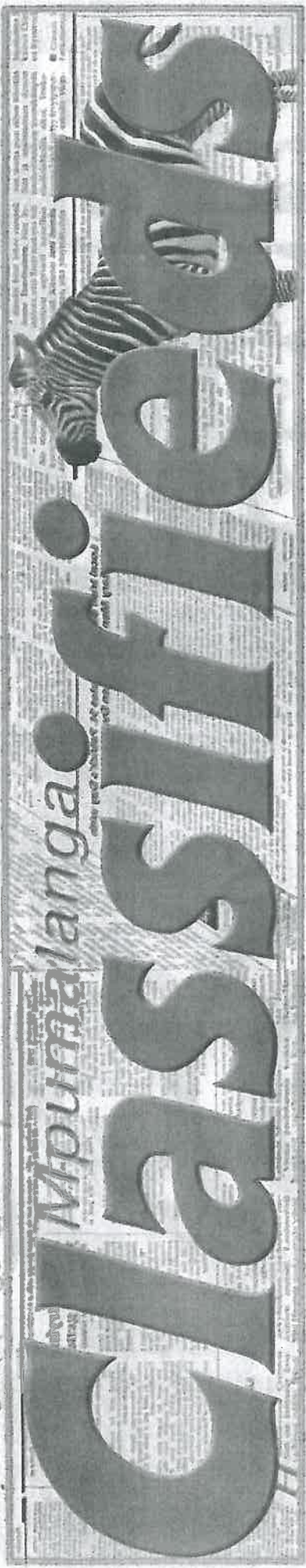
SITE DEVELOPMENT PLAN  
SHEET 3 OF 9





**G3 – Proof of Newspaper Advertisement**

07 7073 Brakfontein  
07 8949 Baesmanspruit



CLASSIFIED ADVERT BOOKINGS - TEL 013-754-1669 OR FAX: 013-753-2422

<p><b>0420 Business</b></p> <p><b>URGENT SALE</b></p> <p><b>KAMAGUGU</b></p> <p>With approved plans R120,000</p> <p>Contact 084-389-2770</p> <p><i>Classifieds</i> <b>Phone: 013-754-1669</b></p>	<p><b>0645 Townhouses / Cluster Homes</b></p> <p><b>SPACIOUS HOUSES IN</b></p> <p>0830 Hairdressing &amp; Beauty 0833 Hotel &amp; Catering 0836 Legal 0841 Medical 0844 Part Time/ Temps 0847 Personnel/ HR 0850 Professional 0853 Reception/ Switchboard 0856 Sales/ Marketing 0859 Security 0867 Secretaries/ PA's 0865 Senior Citizens 0868 Technical 0874 Trade 0874 Training 0877 Domestic Employment/ Account 0880 Domestic Employment Agencies</p>	<p><b>0363 Personal</b></p> <p><b>LIFE SOLUTIONS FOR WOMEN</b></p> <ul style="list-style-type: none"> <li>Menstrual problems</li> <li>Mechanical Engineering</li> <li>Civil Engineering</li> <li>Mining Engineering</li> <li>PC Engineering</li> <li>Computer Studies</li> <li>Information &amp; Technology</li> <li>Financial Management</li> <li>Fashion Design N4 - N6</li> <li>Financial Accounting N4 - N6</li> <li>Office Administration N4 - N6</li> <li>Human Resource N4 - N6</li> <li>Business Management N4 - N6</li> <li>Travel &amp; Tourism N4 - N6</li> <li>Call Centre N4 - N6</li> </ul> <p><b>MATRIX REWRITE</b></p> <p><b>Nelspruit Campus:</b> 24 Anderson cnr, Voortrekker 013-752-8264 • 072-366-8913 Pretoria Central Head Office: 012-332-0206 • 071-648-4222; JHB: Braamfontein: 011-339-4741 • 076-049-5043; Rustenburg: 014-592-6704 • 076-049-5042; Polokwane: 015-291-5559 • 076-136-6727; Vereeniging: 016-422-8558 • 076-889-4509; East London 043-722-1829; Durban 082-225-5372</p> <p><a href="http://www.brooklynacitycollege.co.za">www.brooklynacitycollege.co.za</a></p>	<p><b>0856 Sales / Marketing</b></p> <p><b>LOWVELD BUILDING</b></p> <p>of the alternatives on the above property. Alternative 1: Latitude: 26° 59' 28.5" S Longitude: 29° 36' 50.8" E Lattice type mast painted red and white Notice is hereby given of a public participation process in terms of the Environmental Impact Assessment Regulations 2010 (R543) as amended promulgated in terms of the National Environmental Management Act 1998 (Act No. 107 of 1998) as amended ("NEMA"). Basic assessment procedures will be applied in accordance with regulation 5.49 and an application is to be submitted to the Mpumalanga Department of Economic Development, Environment and Tourism. The applicant furthermore intends to apply to the Mpumalanga Department of Economic Development.</p>	<p>Environment and tourism for exemption in terms of chapter 5 of the Environmental Impact Assessment Regulations 2010 (R543) to assess alternatives with regard to the planned activity. Applicant: Northhoff, 2115, Environmental Assessment Practitioner (EAP), Torbouse Solutions CC, Attention: Monica Niehof P.O. Box 32017, Tollusdal, 0194 Telephone: 012-804-1504/6; Facsimile: 012-804-7072, E-mail: admin@torbousesolutions.co.za Further information regarding the proposed activity can be obtained from the EAP. Any interested and affected party may, in writing, make representations to the EAP, proposed activity or request to be registered as an interested and affected party, by submitting the interested representations including their name, physical &amp; postal addresses (including facsimile &amp; e-mail where possible) and contact number(s) and quoting the activity reference number, to the EAP within 30 calendar days from the publication of this notice. Notice publication date: 16 February 2012. BV002940</p>
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Phone our friendly Classifieds Consultants Tel 013-754-1669 Fax 013-753-2422

**Deadlines**

**Tuesday Edition:**  
Classified Display - Thursday 14:00  
Classified Blocks - Friday 12:00  
Classified Lineage - Friday 13:00  
Although every effort is made to place display ads next to relevant columns, we cannot guarantee that this will be done. All display ads will be placed as close to the relevant column as possible.

**Errors:**  
The newspaper accepts no responsibility for more than one incorrect insertion of any classified advertisement or any costs beyond the costs of the space occupied by the error. All queries on advertisements and accounts must be made in writing and must reach Lowveld within 14 days of publication of advertisement. Failure to do so will result in the order and advertisement being accepted as correct. No further discussions will be entered into.

**The use of the letter "A":**  
For the purpose of bringing an advert to the top of a classification, this is strictly prohibited. The right is reserved to withhold advertisement from publication and to cancel any order that has been accepted.

**Cancellations**  
When cancelling an advert you must receive a cancellation reference number - no queries can be dealt with if you do not quote it. Cancellation of adverts will be accepted only in writing or per fax.

**G4 – Register of I&APs**

## Interested & Affected Parties Register / Comments and Responses Report

Site number: T7073  
 Site Name: Brakfontein  
 EIA reference no.: 17/23/GS - 84

Interested and Affected Parties Register						Comments and Responses Report		
No.	Date	Name	Address	Contact detail	Reacted to:	Record of initial I&AP registration	Issues raised / Comments received	EAP Response
1	01/03/2012	The Municipal Manager, Lekwa Local Municipality, Mr. J. Sindane, Environmental Management Section	PO Box 66, Standerton, 2430	Fax: (017) 712 6808	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
2	06/03/2012	The Ward Councillor, Clr Sishoni, Ward 13	PO Box 66, Standerton, 2430	Fax: (017) 712 6808	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
3	06/03/2012	The Municipal Manager, Gert Sibande District Municipality, Mr. A M Ngcobo, Environmental Management Section	P O Box 1748, Ermelo, 2350	Tel: 017- 801 7000 Fax: 017- 811 1207	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
4	03/01/2012	South African Civil Aviation Authority (SACAA)	Private Bag x73, Halfway House 1685	Tel: (011) 545 1000 Fax: (011) 545 1451	NA	Auto I&AP	No approval received yet	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
5	29/02/2012	South African Heritage Resources Agency (SAHRA)	PO Box 4637, Cape Town, 8000	Tel: (021) 462 4502 Fax: (021) 462 4509	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.
6	29/02/2012	Mpumalanga Tourism and Parks Agency	Private Bag x11338, Nelspruit, 1200	Tel: (013) 759 5445 Fax: (013) 755 4014	NA	Auto I&AP	No comments received	No comments received. A draft Basic Assessment Report was sent and a final Basic Assessment Report will also be sent.

**G5 – Civil Aviation Information**



**SOUTH AFRICAN**



**CIVIL AVIATION  
AUTHORITY**

**Physical Address:**  
Randy Lekentza  
Theur Chesa  
Waterfall Park  
Bakker Street  
Midrand

**Postal Address:**  
Private Bag X 73  
Halfway House  
1685

**Telephone Number:**  
+27 11 545 1000

**Fax Number:**  
+27 11 545 1465

**E-mail address:**  
mail@caa.co.za

**Website address:**  
www.caa.co.za

**Enquiry's: Lizell Ströhl**  
strohl@caa.co.za  
Tel. 011 545 1232  
Fax. 011 545 1451

23 April 2007

**Turbulose Solutions**  
P O Box 32017  
Totiosdal  
0134

**To: Mr Wim Anholts**

**Communication structure,**

**Day and night markings apply to all structures exceeding 45m above the ground in South Africa by default (refer SA-CAR Part 139.01.33),**

**Paint markings (Day markings) shall be in compliance with ICAO Annex 14 chapter 6 and shall consist of seven painted bands, each one seventh of the length of the structure, and shall consist of bands of International Orange (or Post Office red) alternated by brilliant white, starting and ending in orange/red, to a maximum length of 30 meters per band (i.e. a 210m mast). Thereafter it becomes 9 bands, each one ninth of the length of the mast up to 270m, 11 bands up to 330m etc.**

**Lights (Night marking) to be used shall consist of a pair of steady burning approved red aeronautical obstruction lights of at least 32 candela each at the highest practical point of the structure. This may be substituted by a medium intensity Type B flashing red light (20 – 60 flashes per minute), of 2000 candela ( $\pm 25\%$ ) intensity in accordance with ICAO Annex 14 table 6-3.**

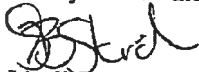
**Intermediate lights shall be placed at a position midway between the top of the structure and the ground and shall consist of at least three steady burning red aeronautical obstruction lights of at least 32 candela each, on the same vertical plane and spaced not more than 120 degree horizontally. At least two lights shall be visible through any azimuth of 360 degree and no light shall be spaced more than 30m apart, on the horizontal plane of any structure. Multiple lights may be required to satisfy this requirement. The vertical spacing of lights shall be as far as practical be evenly spaced and shall not exceed 45m between vertical levels.**

**Board Members: Mr D Moorosi (Chairman), Mr J Morrison, Ms M Magasa, Ms B Mohlala, Maj Gen T Ntsibande, Mr Z Myeza (CEO)**

**Note-**

*Structures of 45 to 90m heights shall have dual lights on top and not less than a set of three lights at the intermediate level.*

Kindly contact the writer if more information is required.



Lizell Stroh

**AERODROME SAFETY OVERSIGHT**

**Board Members: Mr D Moorosi (Chairman), Mr J Morrison, Ms M Magasa, Ms B Mohlala, Maj Gen T Ntsibande, Mr Z Myeza (CEO)**



**G6 – Motivation for exemption from assessing alternatives**

Our Reference:

Your Reference:

**T7073 Brakfontein**

**17/2/3/GS-84**

**7 May 2012**

Mpumalanga Department of Economic Development,  
Environment & Tourism  
Gert Sibande District  
Ermelo

**Attention:** Bheki Mndawe



Reg. No. 2001/080535/23  
PO Box 32017, Totiusdal, 0134  
414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504 / 6

Fax: (012) 804 7072

e-mail: admin@torbiousesolutions.co.za

Dear Sir,

**MOTIVATION FOR EXEMPTION FROM ASSESSING ALTERNATIVES IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998 ("NEMA") AS AMENDED TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION MAST ON PORTION 12 OF FARM BRAKFORTEIN 522 IS**

In terms of Chapter 5 of the EIA Regulations, August 2010 as amended we hereby apply for exemption from assessing alternatives in this application.

**Motivation:**

**(a) The property on which or location where it is proposed to undertake the activity:**

The property where the establishment is proposed was identified by the radio planners of MTN as the best position to place the mast to achieve coverage objectives for the area on the MTN network.

**Other site alternatives reviewed for feasibility:**

1. Sharing:

Investigation of sharing existing infrastructure:

The specific site requirements needed by MTN are:

- Physical space for two sets of antennae, two microwave dishes and 14 feeder cables;
- Wind load capacity for above mentioned equipment;
- Minimum height of 54m; and
- Space and load capacity for future upgrading or advances in technology.

No existing facility or infrastructure within range that can fulfil the required capacity in terms of the coverage objectives.

2. Most other possible areas / sites on the same property would have more or less the same environmental impacts as the proposed site as they have similar environmental features and qualities i.e. biological sensitivity, viewpoints and physical incline.
3. The neighbouring properties were not regarded as feasible site alternatives due to more limitations on the network coverage.

**(b) The type of activity to be undertaken:**

There are no type alternatives available or feasible to replace the establishment of telecommunication masts.

**(c) The design or layout of the activity:**

The proposed design of the activity is a 54m high lattice telecommunication mast. The 54m height is required to reach the network coverage on the MTN network. The lattice type mast is the only design alternative that provides the required equipment capacity and wind-load capacity. Should other operators wish to share this mast in future, more weight would be added to the mast. A monopole type mast is not considered a feasible option for this specific development because of more restrictions with regard to the equipment and wind-load capacity. Further disadvantage of a monopole type mast is increased visibility due to the more solid type structure against the sky background. The SACAA (South African Civil Aviation Authority) prescribed day and night markings for all masts higher than 45m, meaning the mast has to be painted red and white with red lights on top for maximum visibility to prevent aircraft accidents. Therefore, no other colour alternatives are considered to be feasible due to the red and white colour requirement of the SACAA.

**(d) The operational aspects of the activity:**

- Increased electricity consumption on the existing supply grid: The infrastructure is designed to operate on economical electricity consumption. A generator will be installed as a backup electricity supply in the event of a power failure. There are no feasible alternatives available to replace electrical power supply.
- Noise generation by air conditioning units and by backup generator if electricity supply fails: The air conditioning units and backup generator operate at very low and well accepted noise levels. There are no feasible alternatives to replace the air conditioning units or the backup generator.
- Non-ionising electromagnetic fields on allocated frequency: The electromagnetic fields are well below the accepted level to prevent any damage to living organisms (within International Commission on Non-ionising Radiation Protection, ICNIRP, and World Health Organisation, WHO, guidelines) and are restricted within the allocated frequency. There are no feasible alternatives to obtain the required network coverage within the allocated frequency.
- Increase in potential air traffic obstacles: Lower mast options are not feasible alternatives to reach the required network coverage as this would require multiple mast applications to reach the same network coverage with increased environmental impact on the footprint area of several masts as well as increased visual impact on each separate mast development.
- Visual impact of the 54m lattice mast painted red & white on short, medium and long distance observation: Other design, height or colour alternatives are not feasible as prescribed above.

We trust that the above motivation is sufficient to consider and approve this application for exemption.

Kind Regards,

  
MC Niehof

For: Torbiouse Solutions cc

**Addendum A:  
Proof of submission to State Departments & I & AP's**

<b>REGISTERED LETTER</b> <b>GEREGISTREERDE BRIEF</b> <i>(with an insurance option/met 'n versekeringsopsie)</i>			Postage paid R _____ Service fee / Diensgeld R _____ Insurance / Versekering R _____ Total / Totaal R _____
	<b>Full tracking and tracing/Volledige volg en spoor</b>		
Addressed to/Geadresseer aan M Pumulana Town & Parks Agency At Khatofole Private bag 21138 Welgemoed		Insured value of contents Versekerde waarde van inhoud R _____	
The value of the contents of this letter is so indicated and compensation is not payable for a letter received inadvertently. Compensation is limited to R100 00. No compensation is payable without documentary proof. Optional insurance up to R2 000 00 is available and applies to domestic registered letters only.  Die waarde van die inhoud van hierdie brief is so aangedui en vergoeding sal nie betaal word vir 'n brief wat onbedoeld ontvang word. Die vergoeding is beperk tot R100 00. Geen vergoeding is betaalbaar sonder dokumentêre bewys. Opsionele versekering tot R2 000 00 is beskikbaar en slegs toepaslik op binnelandse geregistreerde briewe.		Toll-free number Tollvry nommer 0800 111 502	Initial of accepting officer Datumstempel
ORDINARY PARCEL Streeklid 0800 111 502 www.sapsa.co.za <b>PB 619 152 092 ZA</b> CUSTOMER COPY 201116		Plak Volg-en-Spoor Identifikasie	Paraf van aanneems-beampte

<b>REGISTERED LETTER</b> <b>GEREGISTREERDE BRIEF</b> <i>(with an insurance option/met 'n versekeringsopsie)</i>			Postage paid R _____ Service fee / Diensgeld R _____ Insurance / Versekering R _____ Total / Totaal R _____
	<b>Full tracking and tracing/Volledige volg en spoor</b>		
Addressed to/Geadresseer aan At M. A. M. Moraba Cert. Sibane Dist. & Municipal Manager P.O. Box 2475 Strandfontein		Insured value of contents Versekerde waarde van inhoud R _____	
The value of the contents of this letter is so indicated and compensation is not payable for a letter received inadvertently. Compensation is limited to R100 00. No compensation is payable without documentary proof. Optional insurance up to R2 000 00 is available and applies to domestic registered letters only.  Die waarde van die inhoud van hierdie brief is so aangedui en vergoeding sal nie betaal word vir 'n brief wat onbedoeld ontvang word. Die vergoeding is beperk tot R100 00. Geen vergoeding is betaalbaar sonder dokumentêre bewys. Opsionele versekering tot R2 000 00 is beskikbaar en slegs toepaslik op binnelandse geregistreerde briewe.		Toll-free number Tollvry nommer 0800 111 502	Initial of accepting officer Datumstempel
ORDINARY PARCEL Streeklid 0800 111 502 www.sapsa.co.za <b>PB 619 152 066 ZA</b> CUSTOMER COPY 201111		Plak Volg-en-Spoor Identifikasie	Paraf van aanneems-beampte

<b>REGISTERED LETTER</b> <b>GEREGISTREERDE BRIEF</b> <i>(with an insurance option/met 'n versekeringsopsie)</i>			Postage paid R _____ Service fee / Diensgeld R _____ Insurance / Versekering R _____ Total / Totaal R _____
	<b>Full tracking and tracing/Volledige volg en spoor</b>		
Addressed to/Geadresseer aan The Ward Council of ward 13 At C. P. Sibane Lekwa Local Municipality P.O. Box 66 Strandfontein		Insured value of contents Versekerde waarde van inhoud R _____	
The value of the contents of this letter is so indicated and compensation is not payable for a letter received inadvertently. Compensation is limited to R100 00. No compensation is payable without documentary proof. Optional insurance up to R2 000 00 is available and applies to domestic registered letters only.  Die waarde van die inhoud van hierdie brief is so aangedui en vergoeding sal nie betaal word vir 'n brief wat onbedoeld ontvang word. Die vergoeding is beperk tot R100 00. Geen vergoeding is betaalbaar sonder dokumentêre bewys. Opsionele versekering tot R2 000 00 is beskikbaar en slegs toepaslik op binnelandse geregistreerde briewe.		Toll-free number Tollvry nommer 0800 111 502	Initial of accepting officer Datumstempel
ORDINARY PARCEL Streeklid 0800 111 502 www.sapsa.co.za <b>PB 619 152 070 ZA</b> CUSTOMER COPY 201111		Plak Volg-en-Spoor Identifikasie	Paraf van aanneems-beampte

<b>REGISTERED LETTER</b> <b>GEREGISTREERDE BRIEF</b> <i>(with an insurance option/met 'n versekeringsopsie)</i>			Postage paid R _____ Service fee / Diensgeld R _____ Insurance / Versekering R _____ Total / Totaal R _____
	<b>Full tracking and tracing/Volledige volg en spoor</b>		
Addressed to/Geadresseer aan Municipal Manager - Mr J Sidane Lekwa Local Municipality P.O. Box 66 Strandfontein		Insured value of contents Versekerde waarde van inhoud R _____	
The value of the contents of this letter is so indicated and compensation is not payable for a letter received inadvertently. Compensation is limited to R100 00. No compensation is payable without documentary proof. Optional insurance up to R2 000 00 is available and applies to domestic registered letters only.  Die waarde van die inhoud van hierdie brief is so aangedui en vergoeding sal nie betaal word vir 'n brief wat onbedoeld ontvang word. Die vergoeding is beperk tot R100 00. Geen vergoeding is betaalbaar sonder dokumentêre bewys. Opsionele versekering tot R2 000 00 is beskikbaar en slegs toepaslik op binnelandse geregistreerde briewe.		Toll-free number Tollvry nommer 0800 111 502	Initial of accepting officer Datumstempel
ORDINARY PARCEL Streeklid 0800 111 502 www.sapsa.co.za <b>PB 619 152 083 ZA</b> CUSTOMER COPY 201111		Plak Volg-en-Spoor Identifikasie	Paraf van aanneems-beampte

**REGISTERED LETTER 77013**  
**GEREGISTREERDE BRIEF**

(with an insurance option met 'n versekeringsopsie)



Full tracking and tracking/Volledige volg en spoor

Addressed to/Bestemming na

**SANRA**  
 Attn. Mr P. Hinc  
 P.O. Box 4637  
 Colesburg

18000 Postcode

The value of the contents of this letter is not insured and compensation is not payable for a letter unless stated otherwise. Die waarde van die inhoud van hierdie brief is nie verseker en vergoeding is nie betaalbaar vir 'n brief tensy anderssins aangedui word.

The maximum insured value for letters is R2000.00. The maximum compensation is payable unless stated otherwise. Die maksimum versekerde waarde vir briewe is R2000,00. Die maksimum vergoeding is betaalbaar tensy anderssins aangedui word.

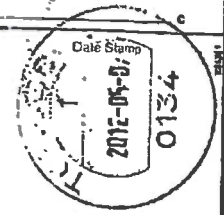
Postage paid R \_\_\_\_\_ c  
 Service fee / Diensgeld R \_\_\_\_\_ c  
 Insurance / Versekering R \_\_\_\_\_ c  
 Total / Totaal R \_\_\_\_\_ c

Registered letter no/opsie no

Versaekerde waarde van inhoud R \_\_\_\_\_ c

Insurance no/versekerings nommer  
 0800 111 507

Post office



**ORDINARY PARCEL**  
 Parcel no/parsel nommer  
**PH 619 152 049 ZA**

CUSTOMER COPY

Plak Volg-en-Spoor  
 kwartiertik

Parcel van  
 versameling

Delivered

Our Reference:  
T7073 Brakfontein

Your Reference:  
17/2/3/GS-84



7 May 2012

Mpumalanga Tourism and Parks Agency  
Private Bag X1138  
Nelspruit  
1200

Attention: Kholofelo

Via Registered Mail

Reg. No. 2001/080535/23

PO Box 32017, Totiusdal, 0134

414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504/6

Fax: (012) 804 7072

e-mail: admin@torblousesolutions.co.za

Dear Sir / Madam,

**DRAFT BASIC ASSESSMENT REPORT FOR AN APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1988 ("NEMA") AS AMENDED TO THE COMPETENT AUTHORITY FOR LISTED ACTIVITY 3 IN REGULATION 546: ESTABLISHMENT OF A MTN (PTY) LTD TELECOMMUNICATION MAST ON PORTION 12 OF FARM BRAKPFONTEIN 522 IS**

Kindly receive the draft Basic Assessment Report for the above mentioned application.

We request you to evaluate the attached report on the proposed project and provide us and the Mpumalanga Department of Economic Development, Environment and Tourism with your written comments and/or inputs, if any, by faxing or e-mailing such within 40 days from the date of this letter. It will be assumed that you do not have any comments on the Basic Assessment Report of the proposed project on the expiry of the 40 day response period.

Should you have any further queries please do not hesitate to contact us.

Kind Regards,

A handwritten signature in black ink, appearing to read "M. Nischof".

Monica Nischof  
For: Torblouse Solutions cc

Comments:

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Members: KW Anholts; GA Anholts



Our Reference:  
T7073 Brakfontein

Your Reference:  
17/2/3/GS-84



7 May 2012

The Municipal Manager  
Gert Sibande District Municipality  
O Box 3475  
Standerton  
2430

Attention: Mr A M Ngcobo  
Environmental Management Section

Via Registered Mail

Reg. No. 2001/080535/23

PO Box 32017, Tloiusdal, 0134

414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504/ 6

Fax: (012) 804 7072

e-mail: admin@torbiousolutions.co.za

Dear Sir,

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Kind Regards,

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Monica Niehof  
For: Torbious Solutions cc

Comments:

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Members: KW Anholts; GA Anholts

Our Reference:  
T7073 Brakfontein

Your Reference:  
17/2/3/GS-84



7 May 2012

The Ward Councillor  
Lekwa Local Municipality  
P O Box 66  
Standerton  
2430

Attention: Cnr Sishoni  
Councillor: Ward 13

Via Registered Mail

Reg. No. 2001/080535/23

PO Box 32017, Tlovedal, 0134

414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1604/8  
Fax: (012) 804 7072

e-mail: admin@torbiousolutions.co.za

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Monica Niehof  
For: Torbious Solutions cc

Comments:

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Members: KW Anholts; GA Anholts

Our Reference:  
T7073 Brakfontein

Your Reference:  
17/2/3/GS-84



7 May 2012

The Municipal Manager  
Lekwa Local Municipality  
P O Box 66  
Standerton  
2430

Reg. No. 2001/080535/23

PO Box 32017, Totiusdal, 0134

414 Rustic Road  
Silvertondale, 0184  
Pretoria

Attention: Mr J Sindane  
Environmental Management Section

Tel: (012) 804 1504/6

Fax: (012) 804 7872

e-mail: admin@torbiouseolutions.co.za

Via Registered Mail

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Monica Nieshof  
For: Torbiouse Solutions cc

Comments:

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Members: KW Anholts; GA Anholts

Our Reference:  
T7073 Brakfontein

Your Reference:  
17/2/3/GS-84



7 May 2012

South African Heritage Resources Agency  
P O Box 4637  
Cape Town  
8000

Attention: Mr. Phillip Hine

Via Registered Mail

Reg. No. 2001/080535/23

PO Box 32017, Totiusdal, 0134

414 Rustic Road  
Silvertondale, 0184  
Pretoria

Tel: (012) 804 1504/6

Fax: (012) 804 7072

e-mail: admin@torbhousesolutions.co.za

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Monica Niehof  
For: Torbhouse Solutions cc

Comments:

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Members: KW Anholts; GA Anholts