

**APPENDIX C7**  
**COMMENTS RECEIVED**



Ms Nicolene Venter  
Savannah Environmental  
PO Box 148  
**SUNNINGHILL**  
2157

Dear Ms Venter

**BASIC ASSESSMENT AND PUBLIC PARTICIPATION PROCESS FOR HIGHVELD SOLAR PV FACILITY AND ASSOCIATED GRID CONNECTION SOLUTION NEAR STILFONTEIN – NORTH WEST PROVINCE**

Your Background Information Document (Appendix C3) dated 11 November 2022 has reference.

Transnet Pipelines, a division of Transnet SOC Limited, has no objection in principle to the proposed Highveld Solar PV Facility and associated grid connection infrastructure crossing the Ø219,1mm pipeline servitude across R502 Main Road east of Khuma Township in Stilfontein, North West Province as indicated on your Stilfontein Locality and Project/Site Layout Plans, subject to compliance with our standard crossing conditions and requirements (attached). Safety protocols shall be observed during the execution of the work.

**This authority is valid for forty-eight (48) months from the date of this letter.** If this proposal has not been performed within the specified period, an extension of time must be requested 2 months before the validity period expires.

**CONDITIONS**

Prior to commencement of the work it is required that a representative of Transnet Pipelines be present to indicate the position of the pipeline(s) and to undertake any work on Transnet's pipeline(s) that may be necessary. In this connection our **Servitude Supervisor, Mr Vusani Ramathikhithi must be contacted at (011) 978 2687 or 083 791 1644/067 809 3850 least 14 days** before the date on which you wish to commence the work in the vicinity of the pipeline. Arrangements will also be made to visit the site periodically whilst the work is in progress.

Should the work be undertaken without Transnet Pipelines' representative being contacted as mentioned above, Transnet Pipelines reserves the right to request that you expose the pipeline/s at your cost in order that an examination can be made for possible damage.

A division of  
**Transnet SOC Ltd**  
Registration Number  
1990/000900/30  
**Directors:** Dr PS Molefe (Chairperson) PPJ Derby\* (Group Chief Executive) UN Fikelepi ME Letlape DC Malshoga Dr FS Mufamadi AP Ramabulana GT Ramphaka LL von Zeuner  
NS Dlamini\* (Group Chief Financial Officer)  
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Interim Group Company Secretary: Ms S Bopape

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\*This letterhead contains personal information as defined in the **Protection of Personal Information Act, No. 4 of 2013** (the "Act"). The signatory consents to the processing of his/ her personal information and is obliged to handle other data subject's information in accordance with the requirements of the Act".

TRANSNET HAS A 'ZERO GIFTS' POLICY. NO EMPLOYEE IS ALLOWED TO ACCEPT GIFTS, FAVOURS OR BENEFITS

The attached standard crossing conditions and requirements for overhead cables and underground cables must be complied with.

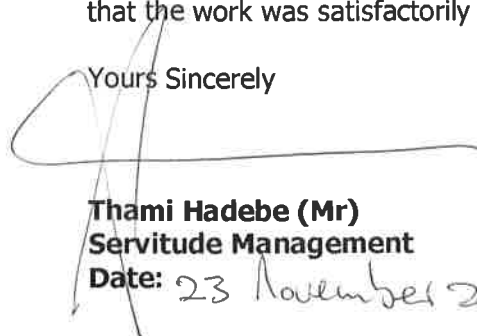
An Excavation Permit shall be issued by Transnet Pipelines' Servitude Supervisor to the competent person of the applicant's Contractor, should excavation work be required within or in close proximity of Transnet Pipelines' servitudes.

Heavy plant or mechanical driven equipment (for example, excavator) shall not be used in the pipeline servitudes. All excavations must be done by hand. Hand-held compactors shall be used in the servitude area. Heavy tonnage mechanical driven equipment shall not be used in the servitude to prevent point loading on the pipeline.

It is imperative that our representative must be contacted before work commencement to determine our pipeline levels and also assist you with our pipeline related information. It is also important that our representative must witness and approve all the crossings/works. Please be informed that in the event of damage of our pipeline/s, repair costs will be to your account.

On completion of the work you are required to return a copy of this letter to our office, duly endorsed and signed by your site representative as well as Transnet Pipelines' representative that the work was satisfactorily completed and conditions adhered to.

Yours Sincerely



**Thami Hadebe (Mr)**  
**Servitude Management**

Date: 23 November 2022

**APPLICANT**

**Name:** .....

**Signature:** .....

**Date:** .....

**SERVITUDE SUPERVISOR**

**Name:** .....

**Signature:** .....

**Date:** .....

## **TRANSNET PIPELINES STANDARD CROSSING CONDITIONS AND REQUIREMENTS FOR OVERHEAD CABLES**

1. No foundations or structures shall be erected on, over or across the pipeline servitude/s, nor shall any stays etc. be anchored inside the pipeline servitude/s. It is, however, preferred that these structures should not be erected within 15m – 30m from the pipeline/s.
2. In the interest of safety it is recommended that distinctive markers, clearly visible from both directions shall be provided for cables and towers higher than 20 metres so that a pilot will readily see the power line during aerial inspections.
3. Any earth conductor between structures shall be insulated from the conductor carrying structures for a distance of at least 800m on either side of the pipeline/s measured perpendicular to its axis/their axes. The conductor may be "spark-gapped" at the structures if required.
4. Where high voltage transmission lines of 88 kV and higher cross and/or run parallel in close proximity to Transnet Pipelines, tests must be done to measure the magnitude of AC and DC interference on the pipelines. AC and DC voltage recordings must be done on the pipelines before construction work begins to obtain a footprint of the voltage levels on the pipe. Tests are to be conducted by a Consultant approved by Transnet Pipelines.
5. Once the line has been energized, the approved Consultant will undertake AC and DC recordings of the pipeline to ascertain if there is any interference on the pipeline. Should it be found that the AC/DC potentials fall outside the laid down parameters of less than 15V AC, as reflected in the NACE Standard RP0177-2000 and ISO 15589-1, the Consultant will perform AC mitigation modelling to determine what measures need to be implemented by the applicant.
6. On completion of the installation further tests will be done to ascertain whether the requirements have been fully met. If the installation does not meet the requirements further investigations and remedial action is to be undertaken. All costs relating to the testing and implementation of the AC mitigation equipment, is at the Applicants expense. These requirements are in addition to any other Transnet Pipelines requirements and do not replace any other requirements.
7. Should authorisation be granted that work may proceed, Transnet's representative must be contacted prior to any work being undertaken within Transnet's pipeline servitude/s. Details of contact person will be furnished when application is made to carry out work.
8. Transnet shall not be liable for any damage, including consequential loss or damage whether direct or indirect which might be caused to the applicant's service during normal operations, routine maintenance and repairs to the pipeline/s.
9. (a) The APPLICANT shall and hereby does indemnify TRANSNET against -
  - (i) any damage to TRANSNET'S own property, whether movable or immovable, including any consequential damage directly flowing from physical damage to any such property;
  - (ii) liability in respect of any damage to the property, whether movable or immovable of the APPLICANT or third parties;
  - (iii) liability in respect of the death of or injury to any employees of TRANSNET or the APPLICANT or any third party;
  - (iv) any legal costs or expenses reasonably incurred in connection with claims or actions arising out of any of the foregoing;

whenever such damage, injury or death is due to or arises out of the construction, installation or existence of the WORKS or any portion thereof, or the use thereof by the APPLICANT, provided that

the APPLICANT shall incur no liability for any damage, injury or death which is due to wilful misconduct or gross negligence on the part of Transnet or any of its employees.

- (b) TRANSNET shall notify the APPLICANT forthwith of the occurrence of any damage or the receipt of any claim or damage for or against which the APPLICANT is prima facie liable to indemnify Transnet in terms of paragraph (a) of this clause and shall, in respect of such claim or demand abide by the directions of the APPLICANT as to whether and on what terms it shall be settled, compromised or contested, it being understood and agreed that whatever action may be taken by Transnet pursuant to such directions of the APPLICANT shall be at the APPLICANTS risk and expense.

***Transnet Pipelines Standard Crossing Conditions and Requirements  
For Underground Services (Cables, Pipes, etc.)***

1. The service/s shall cross below the pipeline/s with a minimum clearance of 500mm. This level must be maintained for a minimum distance of 3m on either side of the centre line of the pipeline/outermost pipelines.
2. Where the service/s run/s parallel to the pipeline/s it/they shall not encroach upon Transnet's pipeline servitude/s.
3. No manholes or any other permanent structure shall be erected within the pipeline servitude/s.
4. It is preferred that no joints in a service shall be situated within the pipeline servitude/s. Should this, however, not be possible the joints shall be placed such that they are equidistant from the centre line of the pipeline/outermost pipelines.
5. NO BLASTING IS ALLOWED WITHIN A PIPELINE SERVITUDE. Application to carry out blasting within 500m of a pipeline must be made to this office in writing in terms of paragraph 17.1, chapter 10 of the regulations embodied in the Explosives Act and Regulations (Act 26 of 1956) as amended.
6. Excavation and backfilling within the area of the pipeline servitude/s shall be undertaken by and at the applicant's cost. Such work must be undertaken by hand without the use of mechanical or power equipment.

All excavation work to be carried out within Transnet's pipeline servitude/s will comply with the OHS Act (Act 85 of 1993) and SABS 1200 D: Earthworks specification.

7. In backfilling the excavation the applicant shall provide a minimum of 150mm of selected soft padding around the pipeline/s where it/they was/were exposed. The padding must be properly compacted, in layers, by hand.

This padding sand must meet with the approval of Transnet's representative on site. It must have a pH value of 5,5 or higher and texture which will not cake when drying out. The diameter of the largest particle of sand must not be greater than 1,5mm.

Examples of padding sand which have been used in the past, amongst others, include the following:

- i) plaster sand
- ii) washed Umgeni River sand
- iii) suitably leached mine sand

It should, however, be noted that crusher dust is not acceptable

No backfilling may be carried out unless authorised by Transnet's representative.

8. The pipeline/s shall not be left exposed unnecessarily.
9. All fragile services such as PVC pipes, earthenware, pitch fibre pipes and cables laid within the pipeline servitude/s shall be protected with concrete or similar protective slabs laid over them for a distance of 3m on either side of the centre line of the pipeline/outermost pipelines.
10. In the interest of safety to the applicants service it is recommended that the route of his service at the point/s of crossing be indicated by 6 metres of hazard tape being placed 600 mm below the ground and/or that the actual point/s of crossing be indicated by 3 (three) permanent and clearly visible markers. These markers should be provided and maintained by and at the applicants' cost.
11. All steel pipes and cables crossing the pipeline/s shall be suitably wrapped or sheathed with an acceptable anti-electrolysis insulating covering for the full width of the pipeline servitude/s.

It is, however, recommended that in your own interest this protection be extended for a minimum distance of 30m on either side of Transnet's pipeline/s measured perpendicular to its axis/their axes.

All steel pipes 100mm diameter or larger must have cross bonding facilities installed. This means that the applicant will supply a test point connected to their pipe and a minimum of two red PVC insulated flexible test leads of 35mm<sup>2</sup> between the applicants test point and Transnet Pipelines test point.

Where pipelines run parallel to one another with a separation distance of 50m and less (refer to clause 2), test points will be installed where the pipelines converge and diverge. If the pipelines run parallel for longer distances, a cross bond test point will be installed every 500m.

This is to enable independent the monitoring of possible electrolytic interaction between pipeline/s.

All costs incurred will be to the applicant's account. Where applicable, quotations will be furnished on request.

12. Should authorisation be granted that work may proceed, Transnet's representative must be contacted prior to any work being undertaken within Transnet's pipeline servitude/s. Details of contact person will be furnished when application is made to carry out work.
13. Transnet shall not be liable for any damage, including consequential loss or damage whether direct or indirect which might be caused to the applicant's service during normal operations, routine maintenance and repairs to the pipeline/s.
14. a) The APPLICANT shall and hereby does indemnify TRANSNET against -
  - i) any damage to TRANSNET's own property, whether movable or immovable, including any consequential damage directly flowing from physical damage to any such property;
  - ii) liability in respect of any damage to the property, whether movable or immovable of the APPLICANT or third parties;
  - iii) liability in respect of the death of or injury to any employees of TRANSNET or the APPLICANT or any third party;
  - iv) any legal costs or expenses reasonably incurred in connection with claims or actions arising out of any of the foregoing;

whenever such damage, injury or death is due to or arises out of the construction, installation or existence of the WORKS or any portion thereof, or the use thereof by the APPLICANT, provided that the APPLICANT shall incur no liability for any damage, injury or death which is due to wilful misconduct or gross negligence on the part of TRANSNET or any of its employees.

- b) TRANSNET shall notify the APPLICANT forthwith of the occurrence of any damage or the receipt of any claim or damage for or against which the APPLICANT is prima facie liable to indemnify TRANSNET in terms of paragraph (a) of the clause and shall, in respect of such claim or demand abide by the directions of the APPLICANT as to whether and on what terms it shall be settled, compromised or contested, it being understood and agreed that whatever action may be taken by TRANSNET pursuant to such directions of the APPLICANT shall be at the APPLICANT's risk and expense.
15. These conditions only apply to construction of the applicant's service across Transnet's pipeline servitude/s and do not grant you the right to do any excavations in future for repair or maintenance purposes. Should such future excavations within the servitude area/s be necessary permission will have to be requested timeously from this office. In cases of emergency, this office or Transnet's representative as mentioned above, may be contacted telephonically for such permission.



# public works & roads

Department:  
Public Works and Roads  
North West Provincial Government  
REPUBLIC OF SOUTH AFRICA

Modiri Molema Road  
Old Parliament Complex  
Mmabatho, 2735  
Private Bag X 2080, Mmabatho,

## CHIEF DIRECTORATE: TRANSPORT INFRASTRUCTURE

### DIRECTORATE: PLANNING AND DESIGN

Tel.: +27 (18) 388 1398  
Email: [Sitase@nwpg.gov.za](mailto:Sitase@nwpg.gov.za)  
Eng: K A Sitase

R32\_11-1-1-3-1\_SE3330-Highveld Solar PV

#### SAVANNAH ENVIRONMENTAL

PO Box 148,  
Sunninghill  
2157

For attention: **Nicolene Venter**

**SUBJECT** : THE DEVELOPMENT OF A SOLAR PHOTOVOLTAIC (PV) FACILITY AND ASSOCIATED INFRASTRUCTURE WITH A GENERATING CAPACITY OF UP TO 240MW IS PROPOSED BY **WKN WINDCURRENT SA (PTY) LTD**, LOCATED APPROXIMATELY 15KM NORTH EAST OF THE TOWN OF STILFONTEIN, IN THE NORTH WEST PROVINCE

**AFFECTED ROAD (S)** : D586\_020

**MUNICIPALITY** : JB MARKS LOCAL MUNICIPALITY

**TOWN/ TOWNSHIP/ FARM** : *THE FOLLOWING ARE FARMS/ PROPERTIES AFFECTED BY THE PROJECT: -*

#### SOLAR PV ENERGY FACILITY:

PORTION 10 OF FARM RIETFONTEIN 388  
PORTION 11 OF FARM RIETFONTEIN 388  
PORTION 56 OF FARM RIETFONTEIN 388  
REMAINDER OF FARM RIETFONTEIN 3

**CLIENT(S)** : WKN WINDCURRENT SA (PTY) LTD






Your communication dated **11 November 2022** has reference. This consent is issued in terms of the **Advertising on Roads and Ribbon Development Act No 21 of 1940** and **Roads Ordinance No 22 of 1957** as amended.

There is no objection to the proposed development, subject to the strict adherence of the attached **Specific and Special Conditions** and should form part of the proposed planning/ development, also that the conditions/requirements listed below are imposed and met in all respects by the applicant:

**NOTE :** A written confirmation of acceptance of the attached conditions is required. In the event of not receiving a written acceptance of conditions, the approval is withdrawn and this approval is cancelled.

Yours faithfully

  
\_\_\_\_\_  
**DIRECTOR: PLANNING AND DESIGN - LA MAFUNE**

1/12/2022  
**DATE**

cc. Robert Logtenberg, Tel. No. 076 501 0088/ 018-293 7660, Private Bag X 928, Potchefstroom, 2520

Attached : Locality Map\_SE3330 Highveld Solar PV Facility and Google\_SE3330 Highveld Solar PV Facility



## **A SPECIFIC AND SPECIAL CONDITIONS: PROPOSE ACCESS (ES)**

### **1. ILLEGAL/ INFORMAL ACCESS (ES)**

**1.1** If there is any existing informal access (es) to the Provincial Road **D586\_020** in the radius of less than 650 m from the proposed access (es) will be illegal therefore should be closed along the affected Provincial road(s), and the traffic should be directed to the approved access (es).

**1.2** No additional access (es) will be allowed to Provincial Road(s) **D586\_020** at all, without the written approval of the Controlling Authority (Department of Public Works and Roads).

### **2. PROPOSED ACCESS (ES)**

**2.1** The proposed development will utilize an **existing Gravel access(es)** which will connect and or intersect with the Provincial Gravel Road D586 may be used for the operational purposes as a **permanent access** to the **Proposed Development** as illustrated on the following Layout Drawings No./ Locality Maps: -

- a) **Google\_SE3330 Highveld Solar PV Facility**
- b) **Locality Map\_SE3330 Highveld Solar PV Facility**

### **3 LINES OF NO ACCESS**

**3.1** No ingress to or egress from the existing Road(s) **D586\_020** to the above-mentioned proposed development other than the one mentioned in **paragraph 2** will be allowed, without the written approval of the Controlling Authority (Department of Public Works and Roads).

### **4. ADDITIONAL STRUCTURES**

**4.1** No structures will be allowed inside the road reserve of Road(s) **D586\_020** without the written approval of the Controlling Authority (Department of Public Works and Roads).



## **B GENERAL CONDITIONS FOR PROPOSED DEVELOPMENT**

**NB** : This Comments is granted in favour of **WKN Windcurrent SA (Pty) Ltd** .

### **5 MINIMUM REQUIREMENTS OF JUNCTION(S) ON A PROVINCIAL ROAD(S)**

**5.1** The minimum requirements of T-Junction on a Provincial Road, as illustrated by the attached Typical Plan No: **NWP 3/2** for standard accesses on provincial roads.

**5.2** **Layout plans** – Tapers, Acceleration and Deceleration Lanes, are a must for any access. A separate left-turn lane, with a slip-lane, shall be provided if more than **250 vehicles per hour** in any hour of a day are turning left out of the main road, as illustrated by the attached Typical Plan No: **NWP 3/4**, (but less than 250 vehicles per hour then Typical Plan No: **NWP 3/3** is applicable) for standard accesses on provincial roads.

**Note:** **Should the need arise, the applicant shall build the above-mentioned development at own cost under the supervision of a Professional Civil Engineer to the satisfaction of the Deputy Director General: Department of Public Works and Roads**

**5.3** Provision must be made for **15 x 45 m** road reserve splays or as determined by the Director-Roads/Engineer. These road reserve splays must be fenced by the applicant/owner at his/her cost.

**Note:** **The longest distance is measured parallel to the main road. Attached please find Typical Plans: NWP 3-3; NWP 3-4 and NWP 5-1 indicating the required road reserve splays and relevant type of access.**

### **6. BUILDING LINE**

The above mentioned Provincial Road(s), have a **95m Standard Building Line**.

**6.1** Building restriction areas in compliance with the requirements of Executive Committee Resolution 1112 of 26 June 1978 is as per paragraph 4.1 (Road Ordinance): The standard building line applicable is **95 m** measured from the centre of these roads. *For any **SPECIAL/ SPECIFIC CONDITIONS** see **Clause 6.3** below.*



## 6.2 ROAD RESERVE WIDTHS OF THE AFFECTED PROVINCIAL ROADS

Provision must be made for the following road reserves/ streets and must be excluded from the proposed development:

Road **D586\_020** have a Road Reserve Width of about **25m**.

## 6.3 BUILDING LINE RELAXATION

None.

## 7. ABNORMAL TRUCKS/ EQUIPMENTS

Department of Public Works and Roads should also be notified with any of the intention of transporting abnormal trucks/ equipments on any of the above stated provincial road(s).

## 8. BLASTING/ EXPLOSIVE OF ROCKS

Any unstable conditions encountered or any rock requiring blasting to be reported directly and immediately to the *Departmental Roads Engineer/ Manager*.

Blasting to be done in accordance with the current applicable Explosives Regulations (e.g. Act No 26 of 1956) and possible damage to the road must be excluded as far as possible.

Any damage to the road caused by unstable soil conditions (subsidence, etc.) or blasting must be repaired to the satisfaction of the: *Departmental Roads Engineer/ Manager*.

## 9. DAMAGED/ REMOVAL OF PROPERTIES

No trees, shrubs, cultivated grass, gates or road fencing must be removed or damaged within the Road Reserve of the affected(s). If such plants or fenced were removed or damaged you will have to replace it to the entire satisfaction of the *Departmental Roads Engineer/ Manager*.



## 10. NOTIFICATION TO THE DEPARTMENT

Based on the above-mentioned provincial roads, the department should be notified (with appropriate detailed plans) about any intention or planning and before the commencement of the following: -

- Change of Land Utilisation (*e.g. From Agriculture to Business/ Settlements, etc*).
- Construction of any structures (*e.g. Buildings*) along the affected road(s).
- Construction of Permanent or Temporary Access (es) from the said provincial road(s).
- Erection and or construction of Overhead and or Underground Services (*e.g. Water & Sewerage pipe lines, Electrical and Telephone Cable Lines*) across or parallel to the affected road(s).
- Closing and or Deviation of part or section(s) of the above stated provincial road(s).
- Advertisement along the affected road(s).
- Working inside the road reserves of any of the affected road(s).
- Temporary or Permanent Closure of Traffic on either of the above stated provincial road(s).

## 11. GEOMETRIC DESIGN AND SPECIFICATIONS OF THE NEW ACCESS

**11.1** For the construction of the access (es) the applicant (whoever is responsible for the construction thereof) shall submit to the Deputy Director General: Department of Public Works and Roads, for his approval, a geometric layout plan(s) to a scale of 1: 500, prepared and signed by a Professional Civil Engineer.

**11.2** For the construction of the access (es) the applicant (whoever is responsible for the construction thereof) shall submit to the Deputy Director General: Department of Public Works and Roads, for his approval, a specifications, for the building thereof.



## **12. RESPONSIBILITY OF THE CONSTRUCTION OF THE ACCESS**

- 12.1** After the plans and specifications stated in paragraph **11.1** and **11.2** above, have been approved by the Deputy Director General: Department of Public Works and Roads, the applicant shall build the access(es) **at own cost** under the supervision of a Professional Civil Engineer to the satisfaction of the Deputy Director General: Department of Public Works and Roads.
- 12.2** On completion of the work, the Professional Civil Engineer shall certify, that work has been carried out in accordance with the approved plan(s) and specifications.
- 12.3** The certificate of completion shall be handed over to the Deputy Director General: Department of Public Works and Roads, with the copy to the Deputy Director General: Department of Agriculture, Conservation and Environment (NWDACE).

## **13 PERMISSION TO WORK INSIDE THE ROAD RESERVE**

The applicant shall not commence with work inside the road reserve until he has obtain written approval from the Deputy Director General: Department of Public Works and Roads to do so.

## **14 INDEMNITY OF THE PREMIER AGAINST CLAIMS**

- 14.1** You indemnify the **PREMIER OF NORTH WEST** and exempt him from any claim or damage which may be instituted or suffered by any person, including legal costs, as a result of the laying or erection of any service or any other works caused or erected by you, or as a result of negligence on your part to protect or maintain the service or other works caused by any other person unless you can prove negligence on the part of Department of Public Works, Roads and Transport or its officials.
- 14.2** The Department of Public Works and Roads will not be liable for any damage suffered by the applicant as a result of operations carried out on road construction or road maintenance or any other operations whatsoever, unless negligence on the part of Department of Public Works, Roads and Transport or its officials can be proved.



**14.3** The applicant shall indemnify the Department of Public Works and Roads or its officials and workers against any claims arising out of any death of or injuries to any person or damage to any property whatsoever (including services such as water pipes, telephone and or electric cables, etc,) caused by or resulting from the activities of the applicant in the road reserve.

**14.4** **Where someone other than the state**, applicant is responsible for the construction of the access (es), the applicant shall take out a policy covering him to the amount of R1, 000, 000.00 (One million rand). This is necessary to enable the applicant to comply with the above requirements. Before any work is done in the road reserve, the applicant shall deliver proof that the policy has been taken out and all costs of it have been paid.

## **15 LAND USE ALONG THE ROAD(S)**

**15.1** Land use of even build on the lines of no access shall be in accordance with the requirements of Executive Committee Resolution 1112 of 26 June 1978.

**15.2** The applicant shall not erect/ built either permanent or temporarily structures, and or any informal structures along the above-mentioned provincial roads inside the road reserve until he has obtain written approval from the Deputy Director General: Department of Public Works and Roads to do so

## **16 REPONSIBILITY FOR THE COST OF (ACOUSTIC SCREEING) NOISE BARRIER**

The applicant shall be responsible for any costs involved in the erection of Acoustic Screening (Noise Barrier).

## **17 ACCEPTANCE AND DISPOSAL OF STORM WATER**


**17.1** In terms of Section 84 of the road Ordinance, 1957, the applicant shall arrange the drainage of the proposed development(s) in such way that it fit in with the drainage of the provincial Road(s) **D586\_020**, taking into account the capacity of the system.



- 17.2** The applicant/ local authority or whoever responsible for the drainage of the proposed development(s) shall receive and dispose all the storm water running from the road or being diverted from the road.
- 17.3** The state or the Provincial Administration will not be responsible for any damage caused by arising from such storm water.
- 17.4** Where, in the opinion of the Deputy Director General: Department of Public Works and Roads, the system for the above-mentioned road(s) is too small to cope with any increased volume of the storm as a result of the establishment or proposed development(s), the applicant/ local authority (whoever responsible for the drainage) shall be responsible for the cost of installing a larger drainage system for the provincial Road(s) **D586\_020**.
- 17.5** The applicant/ local authority or whoever responsible for the drainage of the proposed development(s) shall built/ construct the drainage scheme at own cost simultaneously with the construction of the access (es).

**It will be appreciated if you would kindly ensure that all the above conditions are included in the proposed and intended developments.** Should you have any question and or clarification in regard to the above-mentioned, please do not hesitate to contact this Department.

Yours faithfully

  
\_\_\_\_\_  
**DIRECTOR : PLANNING AND DESIGN**

1/12/2022  
**DATE**

**L A MAFUNE**

**ATTACHED** : Typical Plan No: **NWP 3/2; 3/3; 3/4 & 5 /1**  
: **Google\_SE3330 Highveld Solar PV Facility**  
: **Locality Map\_SE3330 Highveld Solar PV Facility**



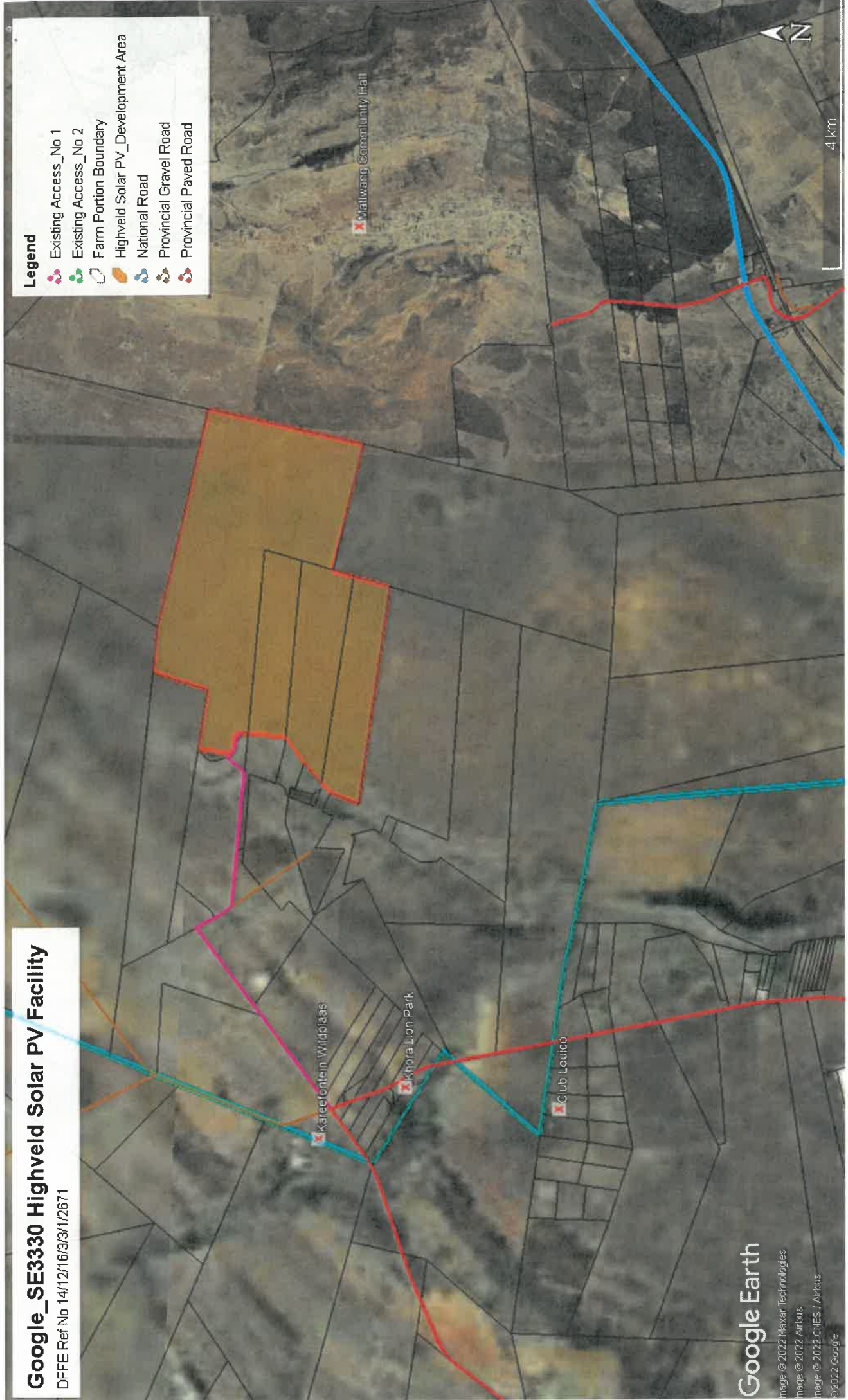


# Google\_SE3330 Highveld Solar PV Facility

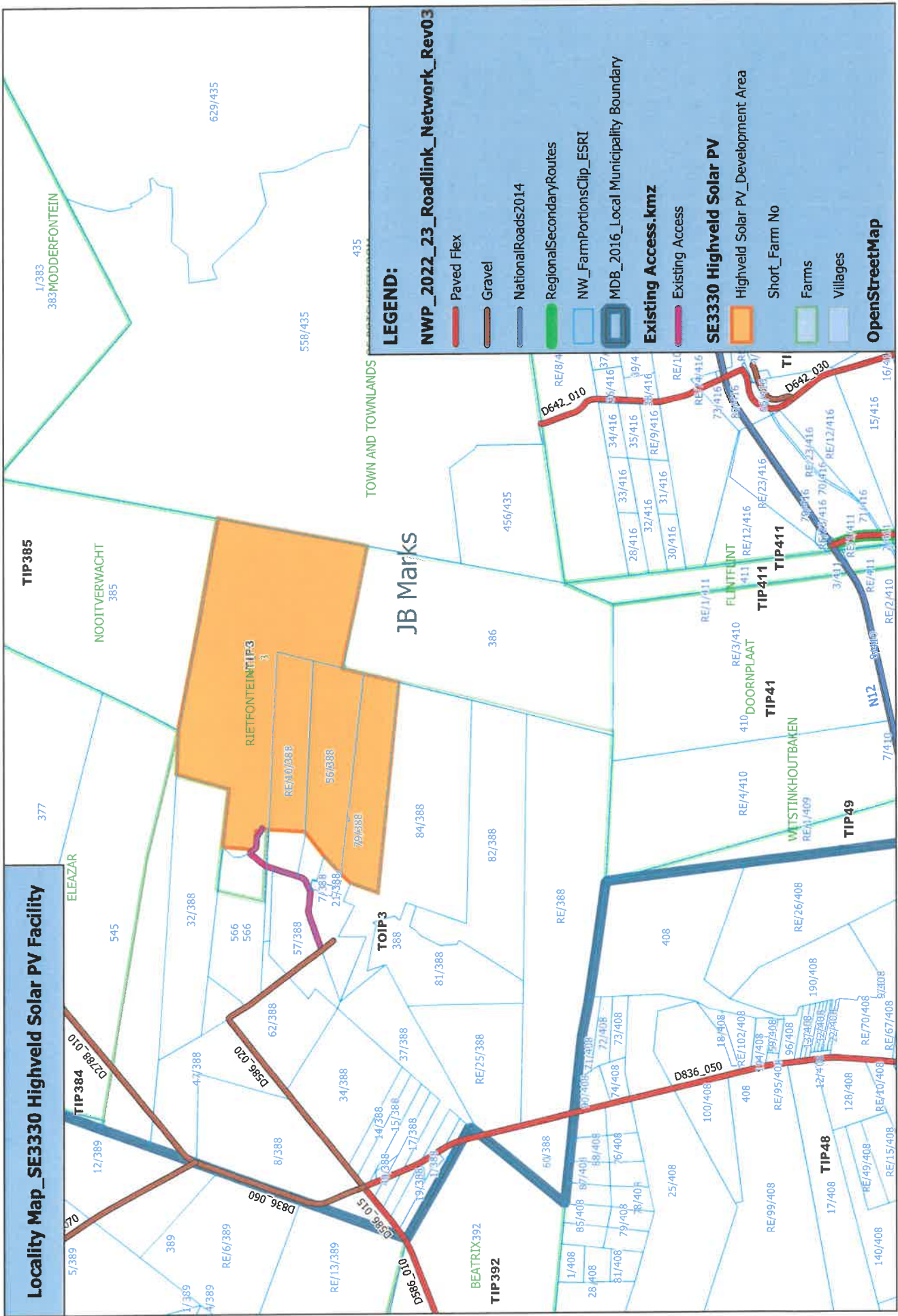
DFFE Ref No 14/12/16/3/3/1/2571

**Legend**

- Existing Access\_No 1
- Existing Access\_No 2
- Farm Portion Boundary
- Highveld Solar PV\_Development Area
- National Road
- Provincial Gravel Road
- Provincial Paved Road



# Locality Map\_SE3330 Highveld Solar PV Facility

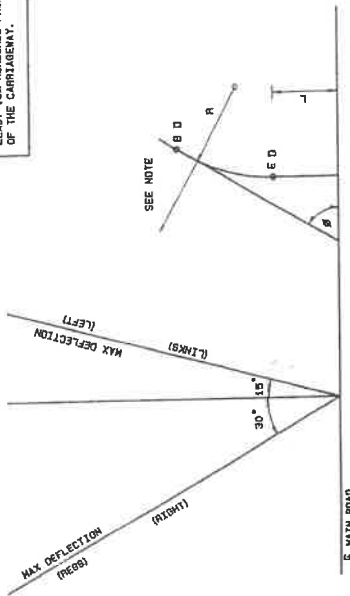


**LEGEND:**

- NWP\_2022\_23\_Roadlink\_Network\_Rev03
- Paved Flex
- Gravel
- NationalRoads2014
- RegionalSecondaryRoutes
- NW\_FarmPortionsClip\_ESRI
- MDB\_2016\_Local Municipality Boundary
- Existing Access.kmz
- Existing Access
- SE3330 Highveld Solar PV
- Highveld Solar PV\_Development Area
- Short\_Farm No
- Farms
- Villages

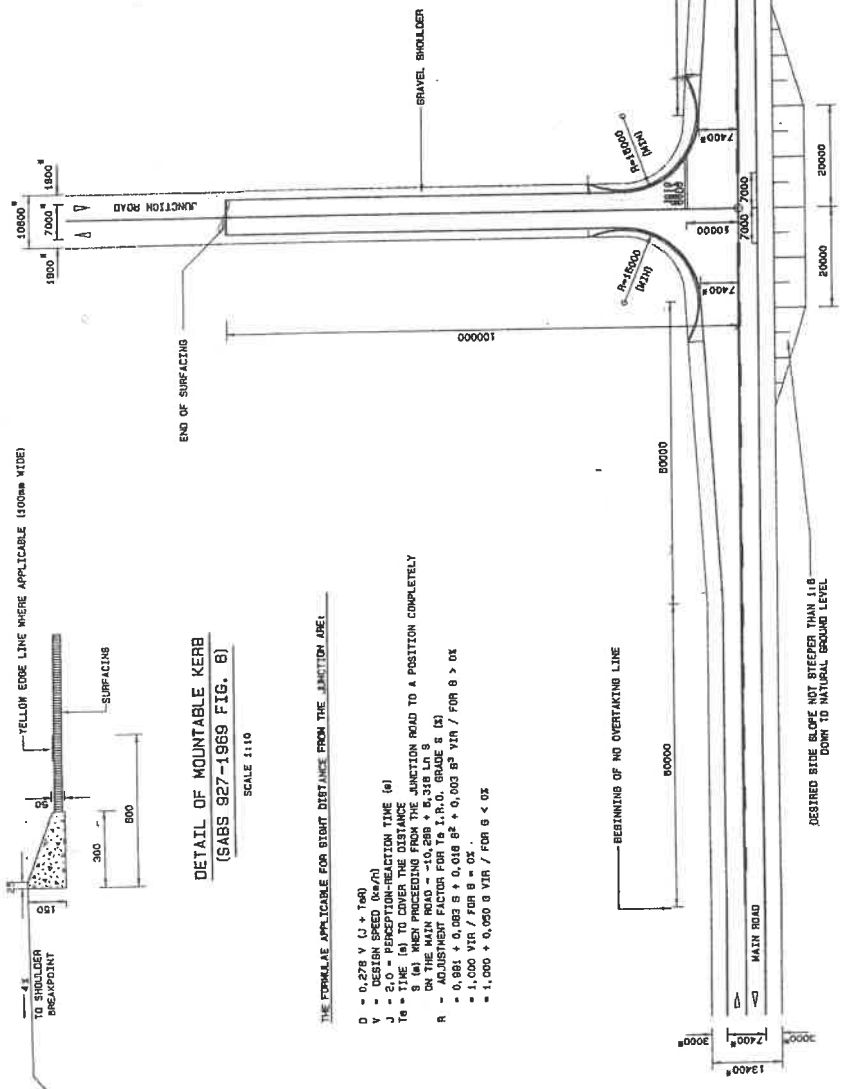
**OpenStreetMap**

**NOTE:**  
THE CROSSFALL ON THE OUTSIDE OF THE CURVE MUST BE AT LEAST 1% AND THE CROSSFALL AT LEAST 10% MEASURED FROM THE OUTSIDE EDGE OF THE CARRIAGEWAY.



**SAFE JUNCTION NORMS**

$\beta$  = DEFLECTION ANGLE SMALLER THAN SAFE  
 $L$  = STOPPING SIGHT DISTANCE FOR DESIGN SPEED  
 $S$  = DESIGN SPEED  
 $R$  = CORRESPONDING RADIUS FOR A SPEED 15 km/h LOWER THAN THE DESIGN SPEED FOR THE REST OF THE JUNCTION ROAD.



**DETAIL OF MOUNTABLE KERR**  
(SABS 927-1969 FIG. 6)

SCALE 1:10

THE FORMULAE APPLICABLE FOR SIGHT DISTANCE FROM THE JUNCTION ARE:

- $D = 0.278 V (j + T_{60})$
- $V$  = DESIGN SPEED (km/h)
- $T_{60}$  = PERCEPTION-REACTION TIME (s)
- $S$  = TIME (s) TO COVER THE DISTANCE
- $T_8$  = TIME (s) WHEN PROCEEDING FROM THE JUNCTION ROAD TO A POSITION COMPLETELY ON THE MAIN ROAD =  $-10.288 + 0.318 L \cdot S$
- $R$  = ADJUSTMENT FACTOR FOR T<sub>8</sub> I.R.O. GRADES (s)
- =  $0.981 + 0.062 S + 0.018 S^2 + 0.003 S^3$  FOR  $S > 0$
- =  $1.000$  FOR  $S = 0$
- =  $1.000 + 0.062 S$  FOR  $S < 0$

**NOTE:**

1. GRADIENT ON BOTH ROADS SHOULD NOT BE MORE THAN 3%, ESPECIALLY NOT SO ON THE JUNCTION ROAD. SHOULD THE GRADIENTS EXCEED 3% AS PROPOSED IN A DESIGN, THE DESIGNER SHOULD BE ASKED TO PROPOSE IN A DESIGN A GRADE DESIGN OF HIGHWAYS AND STREETS 1964". SEE FORMULAE.
2. THE SIGHT DISTANCE MUST BE MEASURED FROM AN EYE LEVEL OF 1.00m ON THE CONTIGUOUS LANE OF THE MAIN ROAD, TO AN OBJECT HEIGHT OF 1.30m ON THE CENTRE LINE OF THE JUNCTION ROAD, 8m FROM THE EDGE OF THE NEAREST CONTIGUOUS LANE OF THE MAIN ROAD.
3. THE DESIRABLE MINIMUM SIGHT DISTANCE IS 300m. ANY DEVIATION MUST BE SUBMITTED, WITH FULL SUPPORTING MOTIVATION, TO THE LIAISON ENGINEER FOR A DECISION.
4. THE FEASIBILITY OF PROVIDING A PASSING LANE AND / OR A DECELERATION LANE MUST BE CONSIDERED.
5. THIS PLAN SERVES AS A GUIDELINE ONLY. WELL MOTIVATED DEVIATIONS MAY BE CONSIDERED.

WHERE APPROPRIATE, CROSS SECTION DIMENSIONS ARE INDICATED ACCORDING TO THE APPROVED TYPICAL CROSS SECTION BEING USED, INCLUDING THE 7.400-DIMENSION AT THE JUNCTION.

ROAD MARKINGS FOR THE DETAIL ON ROAD MARKINGS REFER TO THE SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL AND THE TYPICAL ROAD TRAFFIC SIGNS DRAWINGS SERIES.

**TABLE No 1**

DESIGN SPEED (km/h)	SIGHT DISTANCE (m)	(s)
50	150	11
60	180	13
70	210	15
80	240	17
90	270	19
100	300	21
110	330	23
120	360	25

VALID FOR FLAT GRADES  $\leq 3\%$

SCALE ON REDUCED DRAWING

10

100mm OR EQUIVALENT

NO. \_\_\_\_\_ DATE \_\_\_\_\_ AMENDMENTS \_\_\_\_\_ N.K.P.

APPROVED BY \_\_\_\_\_ SCALE N T 5 SHEET 1 OF 1 SHEET

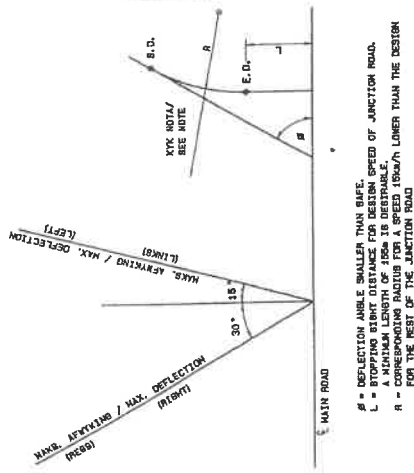
100% HEAD OF DEPARTMENT PLAN NO: NWP 3/3

108101

**MOBIT WEST PIQUOINGE AND ROADS**

DEPARTMENT OF PUBLIC WORKS AND ROADS

T-JUNCTION OF NUMBERED GRAVEL DISTRICT ROADS WITH TARRED SINGLE CARRIAGEWAY ROADS



**SAFE JUNCTION NORMS**

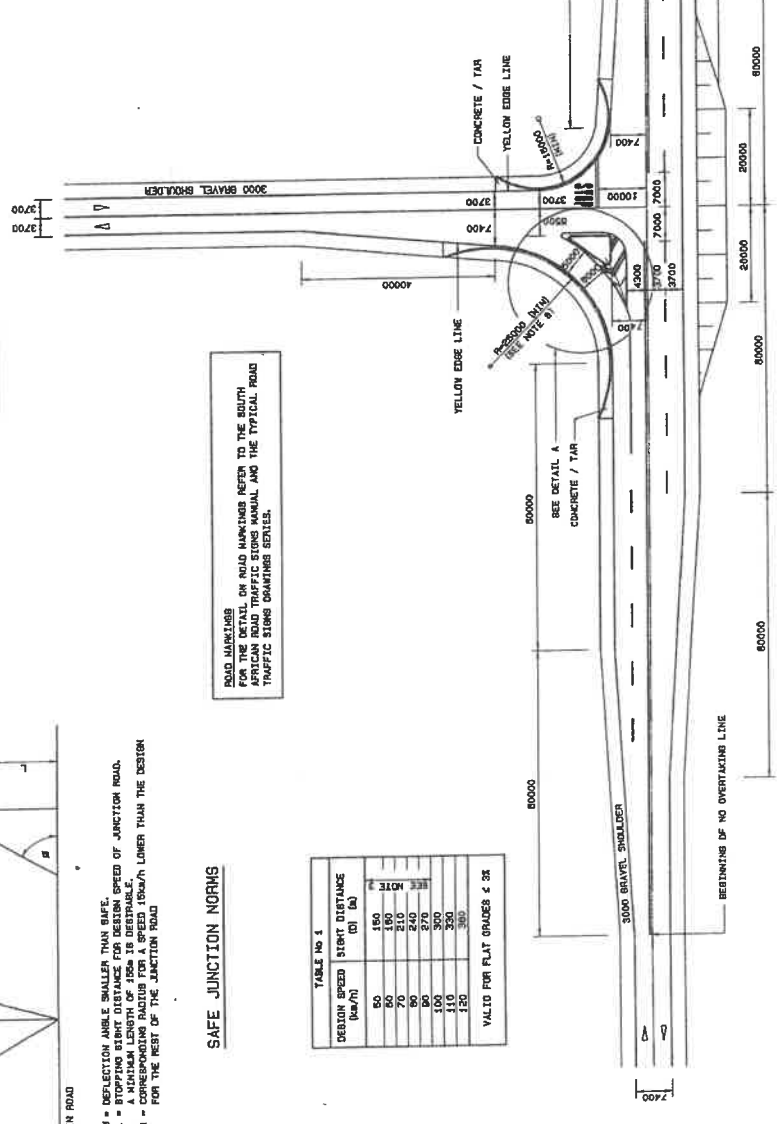
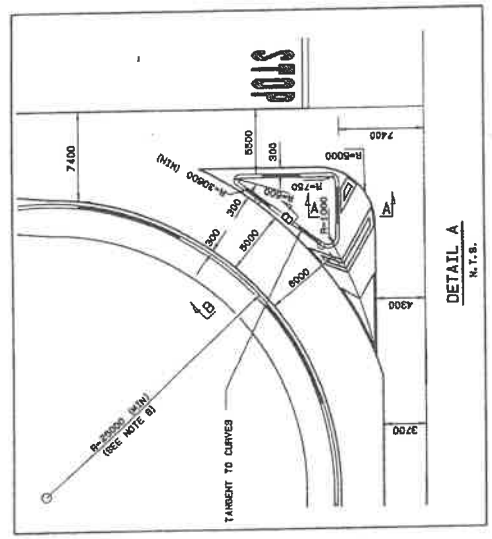
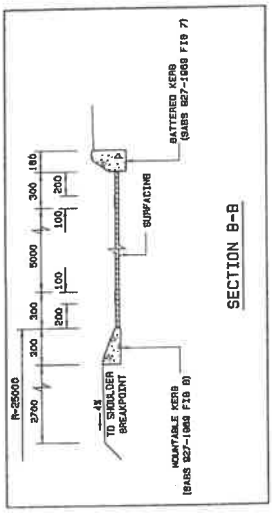
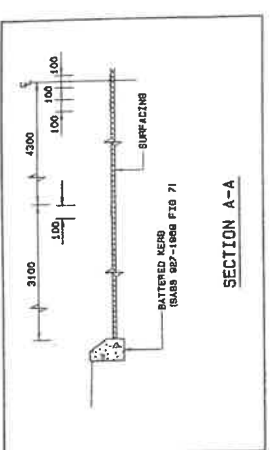
TABLE No 1

DESIGN SPEED (km/h)	STREET DISTANCE (ft)
50	180
60	180
70	210
80	210
90	270
100	300
110	350
120	380

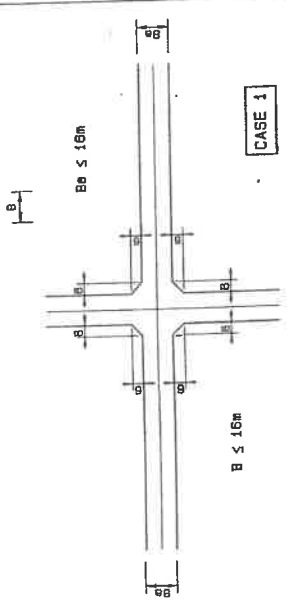
VALID FOR FLAT GRADES & 2%

**NOTE:**  
THE DROBFALL ON THE OUTSIDE OF THE CURVE SHOULD NOT EXCEED 1:16 MEASURED FROM THE OUTSIDE EDGE OF THE CARRIEWAY.

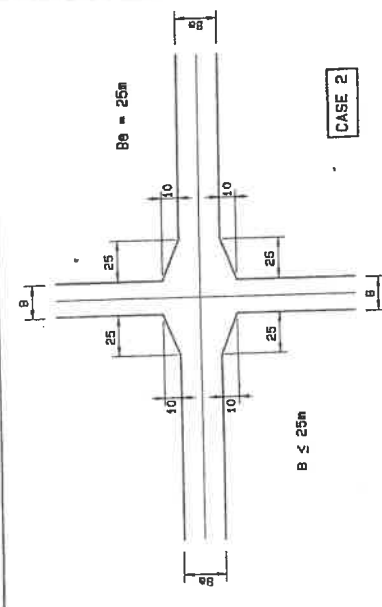
ROAD MARKINGS FOR THE DETAIL ON ROAD MARKINGS REFER TO THE SOUTH SIDE OF THE ROAD AND THE TYPICAL ROAD TRAFFIC SIGN DRAWINGS SERIES.



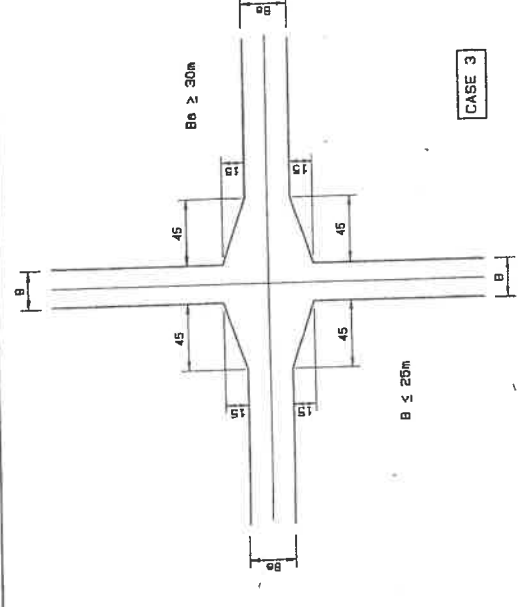
- NOTES:**
- GRADIENT ON BOTH SIDES SHOULD NOT BE MORE THAN 3%, ESPECIALLY ON THE JUNCTION ROAD.
  - FOR THE DESIGN OF SIGHT DISTANCES REFER TO PLAN NO NWP 3/3.
  - THE DESIGN SPEED OF THE JUNCTION ROAD SHOULD NOT BE LESS THAN THE DESIGN SPEED OF THE MAIN ROAD. THE DESIGN SPEED OF THE JUNCTION ROAD MUST BE SUBMITTED WITH FILL.
  - THIS PLAN WILL SERVE AS A OUTLINE ONLY. WELL-MOTIVATED DIFFERENCES MAY BE CONSIDERED.
  - A PASSING LANE, 24m IN LENGTH (TAPERS INCLUDED) SHALL BE PROVIDED AS SHOWN ABOVE.
  - ALL CURVE RADIUS SHOULD BE PROVIDED IF MORE THAN 200 M.P.M. ARE TURNING LEFT OUT OF THE MAIN ROAD AS SHOWN ABOVE.
  - ALL RADI FOR KERBS IS MEASURED TO THE FACE OF THE KERB.
  - DEPENDANT ON THE ANGLE OF INTERSECTION THE RADIUS SHALL BE ADJUSTED TO ENSURE A MINIMUM ISLAND OF 7.0m.



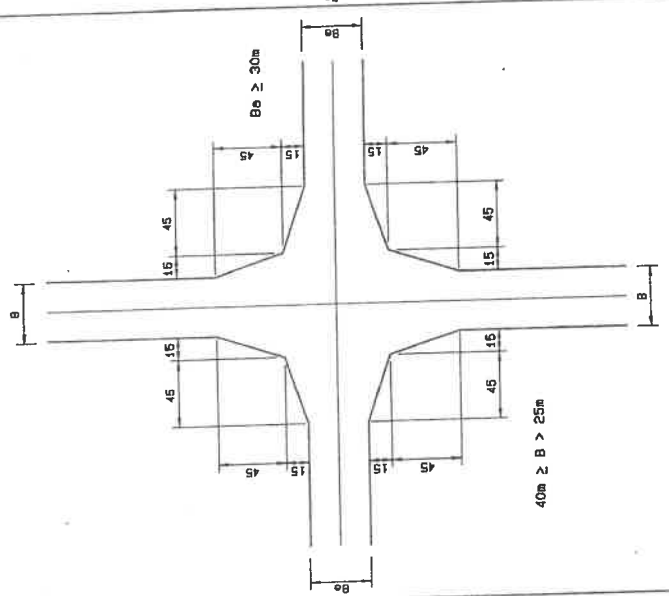
CASE 1



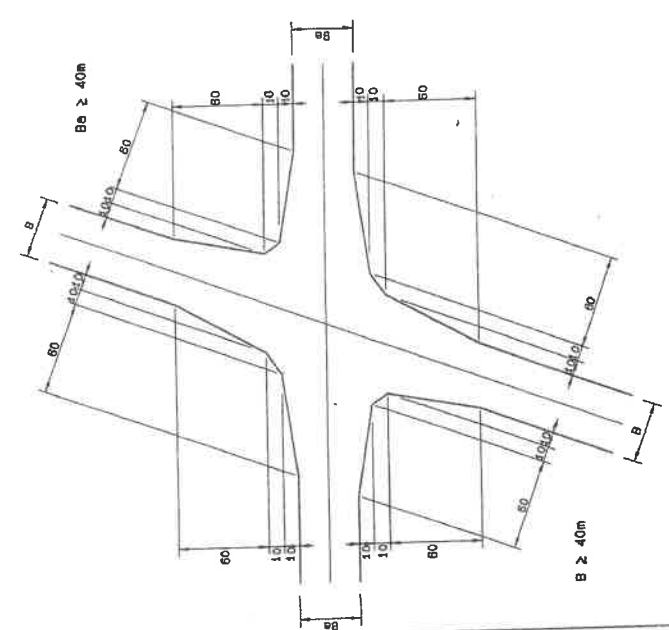
CASE 2



CASE 3



CASE 4  
(SEE TABLE)



CASE 5  
SHOWING SKEW JUNCTION

APPLICATION OF DIFFERENT CASES

MIN ROAD RESERVE WIDTH (m)	MAIN ROAD (B <sub>m</sub> )							
	8	14	16	25	30	40	48,4	62
8	1*	1*	2	3	3	3	3	3
16		1*	2	3	3	3	3	3
25			2	3	3	3	3	3
30				4	4	4	4	4
40				4	4	4	4	4
48,4				4 (B) **	4 (B) **	4 (B) **	4 (B) **	5
62				4 (B) **	4 (B) **	4 (B) **	4 (B) **	5

JUNCTION ROAD (B<sub>j</sub>)

\* MINIMUM SPLAY SHOULD BE 8m x 8m (SYMMETRIC). THE REQUIREMENT IS THAT A SHIRT VEHICLE MUST BE ACCOMMODATED UNLESS THE LOCAL AUTHORITY REQUESTS OTHERWISE.

\*\* CASE 5 ONLY TO BE USED WHEN BOTH ROADS ARE DUAL CARRIAGEWAY ROADS.

NOTES:

- WHERE APPLICABLE, CASES 1 AND 2 SHOULD BE DETERMINED IN CONSULTATION WITH THE LOCAL AUTHORITY.
- THE DESIGN VEHICLE TO DETERMINE THE TURNING MOVEMENTS AT JUNCTIONS (EXCLUDING TO INDUSTRIAL AREAS) SHOULD BE A SHIRT VEHICLE AND NOT A TRUCK OR BUS UNLESS THE LOCAL AUTHORITY REQUESTS OTHERWISE. FOR INDUSTRIAL AREAS A SHIRT VEHICLE MUST BE USED. IN ALL CASES THE REQUIRED SPACE MUST BE MAINTAINED BETWEEN THE 'DE'-LINE AND THE ROAD RESERVE LINE. THE ROAD RESERVE LINE MUST PROVIDE FOR ROAD SIGNS, ADDITIONAL LANES AND DRAINAGE AS REQUIRED.



## water & sanitation

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

Enquiries: Z Mathiso  
Telephone: 0514059000  
Reference: 16/2/7/C241/D8

BY EMAIL

Savannah Environmental (Pty) Ltd  
PO BOX 148  
Sunninghill  
2157  
**Email: [publicprocess@savannah.com](mailto:publicprocess@savannah.com)**

For Attention: Nicolene Venter

**CONSULTATION WITH REGARDS TO A BASIC ASSESSMENT REPORT FOR THE DEVELOPMENT OF A SOLAR PHOTOVOLTAIC (PV) FACILITY IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) AS AMENDED IN RESPECT OF PORTION 56, 10 AND 11 OF THE FARM RIETFONTEIN 388 AS WELL AS THE REMAINING PORTION OF FARM RIETFONTEIN 3, SITUATED IN THE DISTRICT OF STILFONTEIN, NORTH WEST.**

**APPLICANT:** WKN Windcurrent SA (Pty) Ltd

The Department of Water and Sanitation (DWS) has assessed the submitted Basic Assessment report for the proposed development of the Highveld Solar PV Facility at farms near Stilfontein.

- It is noted that the Highveld Solar PV Facility will have a contracted capacity of up to 240MW and is to be constructed over an area of approximately 433ha in extent.
- It has been indicated that 150 ML and 300 ML volumes of water will be required for the construction and operation respectively. The water will be used for washing of equipment, earthworks/dust suppression and civil works, and it will be sourced from a registered water service provider (municipality). However, in a meeting that we had on 29/11/22 it was mentioned that getting water from the municipality is not yet finalised, another option may be to get water from boreholes.
- The applicant should consult with DWS with regards to water use authorization and relevant registration of water uses for any water that will be obtained from the water resources. Water resources refers to water bodies such as rivers, streams, wetlands, estuaries and groundwater.
- Since the development area is within a farm; authorization that may already be in place on the property for purposes of irrigation does not necessarily apply to water usage for construction and operation of a solar facility.
- The applicant is requested to note that the following activities are defined as water uses in terms of Section 21 of the National Water Act, 1998:

- - (a) taking water from a resource;
  - (b) storing water;
  - (c) impeding or diverting the flow of water in a watercourse;
  - (f) discharging waste or water containing into a water resource through a pipe, canal, sewer, sea outfall or other conduit;
  - (g) disposing of waste in a manner which may detrimentally impact on a water resource;
  - (i) altering the bed, banks, course or characteristics of a watercourse;
  - (j) removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people.
  
- The applicant should apply for section 21(c) and (i) water use authorization because the proposed development of an access road is within a wetland as outlined on page 37 (figure 5-1 of the volume 1 report document).
  
- The applicant should also apply for section 21 (g) water use authorisation for the storage of contaminated water that will be collected, stored and either treated or disposed off-site.
  
- Water uses may be generally authorized or a full Water Use License Application may be required.
  
- It is noted that the applicant will ensure water used in any process of the project is recycled as far as practicable, to promote water conservation.
  
- It is noted that the applicant will ensure that water quality tests are undertaken prior to the discharge of the natural stormwater runoff (and/or any other water) into the resource, to verify that the water is not polluted and does not pollute the watercourse.
  
- With regards to the portable toilets and other hazardous chemical substances on the site: Sanitary facilities, domestic waste and deposits of any substance which causes or is likely to cause pollution of a water resource should not be located within the 1:50 year flood-line of any watercourse or estuary.
  
- All waste on the site should be managed in accordance with the National Environmental Management: Waste Act 2008.
  
- Every mitigation measure proposed in the different sections of the report must be implemented, and any deviations must be reported to DWS. Furthermore, no water use should commence without any/necessary authorisation.

In conclusion it is recommend that the applicant should, at all times, take note of the pollution control provisions of the Section 19 (1) of the National Water Act 1998, which states that:

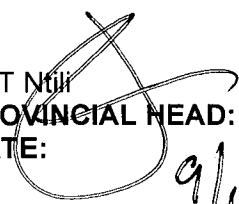
*19 (1) An owner of land, a person in control of land or a person who occupies or uses the land on which –*

- (a) any activity or process is or performed or undertaken; or*
- (b) any other situation exists which causes, has caused or is likely to cause pollution of a water resource, must take all reasonable measures to prevent any such pollution of a water resource, from occurring, continuing, or recurring.*

The applicant is requested to inform the DWS of any incidents that are likely to have a pollution impact on water resources in relation to the proposed activity, within **24 hours** of the occurrence of such incidents

Regards

Dr T Ntjini  
**PROVINCIAL HEAD: FREE STATE**  
**DATE:**



9/12/22



Our Ref:



an agency of the  
Department of Arts and Culture

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South African Heritage Resources Agency | 111 Harrington Street | Cape Town  
P.O. Box 4637 | Cape Town | 8001  
www.sahra.org.za

Enquiries: Elijah Dumisani Katsetse

Tel: 0214624502

Email: ekatsetse@sahra.org.za

CaseID: 20104

Date: Monday December 12, 2022

Page No: 1

## Final Comment

**In terms of Section 38(4), 38(8) of the National Heritage Resources Act (Act 25 of 1999)**

Attention: Savannah Environmental (Pty) Ltd

PO Box 148  
Sunninghill  
2157

**WKN Wind current (Pty) Ltd proposes the development of a solar PV facility comprising an up to 240MW Solar PV facilities, and Grid connection infrastructure, located approximately 15km north east of Stilfontein in the North West Province. The project area falls within the Matlosana Local Municipality within the Dr Kenneth Kaunda District Municipality. The solar PV facilities will be developed on the following properties: Portion 56 of Farm Rietfontein 388 Portion 79 of Farm Rietfontein 388 Remainder of Portion 10 of Farm Rietfontein 388 Portion 0 of farm Rietfontein 3 Access to the project site is ample with the presence of existing roads mainly consisting of national and regional roads. The N12 is located to the south of the project site and the R30 is located to the west of the project site. A facility development area which will include the PV facility, BESS and grid connection solution will be identified taking into consideration the identified sensitivities. The infrastructure associated with this 240MW PV facility includes: PV modules and mounting structures Inverters and transformers Cabling between the project components, to be laid underground where practical. Battery Energy Storage System (BESS) Access roads, internal roads and fencing around the development area. Laydown area. Operation and Maintenance buildings including a gate and security building, control centre, offices, warehouse, and workshop areas for maintenance and storage. A grid connection solution is required to connect the project/s to the Eskom grid (assumed within a 300m wide corridor approximately 20km in length) and will form part of a separate application for Environmental Authorization. The development area will be larger than the area needed for the construction of a 240MW PV facility and will provide the opportunity for the optimal placement of the infrastructure, ensuring avoidance of major identified environmental sensitivities by the development footprint. To avoid areas of potential sensitivity and to ensure that potential detrimental environmental impacts are minimised as far as possible, the development footprint within which the infrastructure of the PV facility and its associated infrastructure will be located will be fully assessed.**

Savannah Environmental has been appointed by WKN Windcurrent SA (Pty) Ltd to conduct an Environmental Authorisation (EA) Application for the proposed Highveld Solar PV Facility on Portion 56 of the Farm



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[www.sahra.org.za](http://www.sahra.org.za)

Rietfontein 388, Portion 79 of the Farm Rietfontein 388, Portion 10 of the Farm Rietfontein 388, Portion 0 of the Farm Rietfontein 3 near Stillfontein, Matlosana Local Municipality, Dr. Kenneth Kaunda District Municipality, North West Province.

A Draft Basic Assessment Report (DBAR) has been submitted in terms of the National Environmental Management Act, no 107 of 1998 (NEMA) and the NEMA Environmental Impact Assessment (EIA) Regulations, 2017 (as Amended). The scope of work entails the construction of a 240 MW Solar PV facility and grid connection infrastructure.

CTS Heritage and Prof. M Bamford have been appointed to provide heritage specialist input as part of the EIA process as required by section 24(4)b(iii) of NEMA and section 38(3) and 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA).

*Lavin, J. October 2022. Heritage Impact Assessment: Proposed Development of the Highveld PV Cluster near Potchestroom, North West Province.*

It is stated that the survey proceeded with some constraints and limitations. However, the project area was comprehensively surveyed for heritage resources. Some LSA archaeology of limited scientific value was identified. The majority of significant heritage resources identified relate to the historic Farm occupation of this property. These resources include remnants of an old farm werf as well as three burial sites that were identified.

According to the specialist none of the heritage resources identified fall within the layout for the PVs of the OHL grid connection provided and as such no direct impact to significant heritage resources is anticipated. To ensure that no impact to the identified resources occurs during the construction or operational phases of the development, a number of recommendation are made as follows:

- The recommendations in the VIA are implemented,
- A no development buffer of 100m is implemented around the burials sites identified within the broader development area,
- proposed widening of the road takes place to the south, away from the identified burial at Site 117,
- The identified sensitive archaeological areas in figure 7 are not impacted the development of any new infrastructure,
- Ongoing community access to these burials, as well as their conservation into the future, must be



Enquiries: Elijah Dumisani Katsetse

Tel: 0214624502

Email: ekatsetse@sahra.org.za

CaseID: 20104

Date: Monday December 12, 2022

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ensured, (this can be managed through the development of a Heritage Management Plan for the burials to be implemented for the duration of the project)

- Should any buried archaeological resources or human remains or burials be uncovered during the course of development activities, work must cease in the vicinity of these finds. The SAHRA must be contacted immediately to determine an appropriate way forward.

*Bamford, M. September 2022. Site Visit Report: Palaeontological Impact Assessment for the Proposed Highveld Solar Cluster, Near Potchestroom, North West Province.*

The proposed site lies on the potentially fossiliferous Malmani Subgroup (Transvaal Supergroup) that could preserve trace fossils such as stromatolites or microbialites in the dolomites. The site visit and walk through was conducted which confirmed that dolomites were common in only some areas but trace fossils were extremely rare (only one seen below existing powerline). The area for the proposed Solar collectors and substation is on cherts and soil and no dolomites were present. Nonetheless, a Fossil Chance Find Protocol should be added to the EMPr. Based on this information it is recommended that no further palaeontological impact assessment is required unless fossils are found by the contractor, developer, environmental officer or other designated responsible person once excavations for pole foundations or Solar collector and infrastructure have commenced. Since the impact will be Low, as far as the palaeontology is concerned, the project should be authorised.

### **Final Comment**

The SAHRA's APM Unit has received the draft BAR as part of the Environmental Authorisation process, attached to the BAR are heritage specialist studies. SAHRA supports the recommendation made in the reports by respective specialists and has no objections to the project.

SAHRA inserts the following comments as a requirement in terms of section 3(4) of the NEMA Regulations and section 38(8) of the NHRA in the format provided in section 38(4) of the NHRA and must be included in the Final BAR and EMPr:

- 38(4)a – The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit has no objections to the proposed expansion;
- 38(4)b – The recommendations of the specialists are supported and must be adhered to. No further additional specific conditions are provided for the development;

# Proposed development of the Highveld PV Cluster near Potchefstroom, North West Province

Our Ref:



an agency of the  
Department of Arts and Culture

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Enquiries: Elijah Dumisani Katsetse

Tel: 0214624502

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CaseID: 20104

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- 38(4)c(i) – If any evidence of archaeological sites or remains (e.g. remnants of stone-made structures, indigenous ceramics, bones, stone artefacts, ostrich eggshell fragments, charcoal and ash concentrations), fossils or other categories of heritage resources are found during the proposed development, SAHRA APM Unit (Elijah Katsetse/Phillip Hine 021 462 4502) must be alerted as per section 35(3) of the NHRA. Non-compliance with section of the NHRA is an offense in terms of section 51(1)e of the NHRA and item 5 of the Schedule;
- 38(4)c(ii) – If unmarked human burials are uncovered, the SAHRA Burial Grounds and Graves (BGG) Unit (Thingahangwi Tshivhase/Ngqalabutho Madida 012 320 8490), must be alerted immediately as per section 36(6) of the NHRA. Non-compliance with section of the NHRA is an offense in terms of section 51(1)e of the NHRA and item 5 of the Schedule;
- 38(4)d – See section 51(1) of the NHRA;
- 38(4)e – The following conditions apply with regards to the appointment of specialists:
  - i) If heritage resources are uncovered during the course of the development, a professional archaeologist or palaeontologist, depending on the nature of the finds, must be contracted as soon as possible to inspect the heritage resource. If the newly discovered heritage resources prove to be of archaeological or palaeontological significance, a Phase 2 rescue operation may be required subject to permits issued by SAHRA;
  - The Final BAR and EMPr must be submitted to SAHRA for record purposes;
  - The decision regarding the EA Application must be communicated to SAHRA and uploaded to the SAHRIS Case.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully

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Elijah Dumisani Katsetse  
Heritage Officer  
South African Heritage Resources Agency

# Proposed development of the Highveld PV Cluster near Potchefstroom, North West Province

Our Ref:



an agency of the  
Department of Arts and Culture

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South African Heritage Resources Agency | 111 Harrington Street | Cape Town  
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Enquiries: Elijah Dumisani Katsetse

Tel: 0214624502

Email: [ekatsetse@sahra.org.za](mailto:ekatsetse@sahra.org.za)

CaseID: 20104

Date: Monday December 12, 2022

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Phillip Hine

Manager: Archaeology, Palaeontology and Meteorites Unit  
South African Heritage Resources Agency

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## ADMIN:

Direct URL to case: <https://sahris.sahra.org.za/node/608906>

## Terms & Conditions:

1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
3. SAHRA reserves the right to request additional information as required.



# forestry, fisheries & the environment

Department:  
Forestry, Fisheries and the Environment  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447· PRETORIA · 0001· Environment House ·473 Steve Biko Road, Arcadia, · PRETORIA

**DFFE Reference:** 14/12/16/3/3/1/2671

**Enquiries:** Ms Bathandwa Ncube

**EAPASA Registration:** 2021/3238

**Telephone:** 012 399 9368 **E-mail:** [BNcube@dff.gov.za](mailto:BNcube@dff.gov.za)

Ms Karen Jodas  
Savannah Environmental (Pty) Ltd  
First Floor, Block 2  
5 Woodlands Drive Office Park  
C/o Woodlands Drive and Western Service Road  
**WOODMEAD**  
Johannesburg  
2191

Telephone Number : 011 656 3237/3256/3251  
Cellphone Number : 082 655 1935  
Email Address : [karen@savannahsa.com](mailto:karen@savannahsa.com)

## **PER MAIL / E-MAIL**

Dear Ms Jodas

### **COMMENTS ON THE DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED HIGHVELD SOLAR PV FACILITY NEAR STILFONTEIN, WITHIN THE JB MARKS LOCAL MUNICIPALITY, NORTH WEST PROVINCE**

The draft Basic Assessment Report (BAR) dated November 2022 and received by this Department on 14 November 2022, refer.

This letter serves to inform you that the following information must be included to the final BAR:

#### **Application Form**

1. In section 1 of the application form, the reason that this Department is the Competent Authority must refer to Highveld Solar PV Facility as the proposed development being applied for.
2. Activity 23 of Listing Notice 3 (as amended) is included in the application form but not in the draft BAR. The listed activities represented in the BAR and the application form must be the same and correct.
3. Written landowner consent for Portion 10 and Portion 11 of Farm Rietfontein 388 has not been provided and must be included in Appendix 3 of the application form.
4. If the activities applied for in the application form differ from those mentioned in the final BAR, an amended application form must be submitted.
5. It is imperative that the relevant authorities are continuously involved throughout the basic assessment process as the development property falls within geographically designated areas in terms of the Listing Notice 3 activity(ies).

## **Specialist Assessments**

6. The Heritage Impact Assessment (HIA) must be submitted to the South African Heritage Resources Agency (SAHRA) for comments, via the South African Heritage Resources Information System (SAHRIS). These comments must be addressed and incorporated in the final BAR.
7. Should the comments from SAHRA (or any other I&AP) propose significant changes or new information to be added to the BAR (or EMPr), you are advised to refer to Regulation 19(1)(b) of the NEMA EIA Regulations, 2014, as amended.
8. You are requested to submit copies of original signed Specialist Declaration of Interest forms (completed in full) for the following specialist studies conducted:
  - i. Avifauna Baseline and Impact Assessment Report dated October 2022, prepared by Pachnoda Consulting CC; and the
  - ii. Social Impact Assessment dated September 2022, prepared by Eco Thunder Consulting.
9. The Specialist Declaration of Interest form attached as Appendix 1 of the Agricultural Impact Assessment dated November 2022, must be signed by a Commissioner of Oaths.
10. All specialist studies must be final, and provide detailed/practical mitigation measures for the preferred alternative and recommendations, and must not recommend further studies to be completed post EA.
11. Should the appointed specialists specify contradicting recommendations, the EAP must clearly indicate the most reasonable recommendation and substantiate this with defensible reasons; and where necessary, include further expertise advice.

## **Public Participation Process**

12. Comments must be obtained from this Department's Biodiversity Conservation Directorate. Further to that, these comments must be addressed and incorporated in the final Basic Assessment Report. The contact details are as follows:
  - i. Biodiversity Conservation Directorate  
Attention: Mr. Seoka Lekota  
Email: [BCAdmin@dffe.gov.za](mailto:BCAdmin@dffe.gov.za)
13. The Public Participation Process must be conducted in terms of Regulation 39, 40, 41, 42, 43 & 44 of the EIA Regulations 2014, as amended.
14. Please ensure that all issues raised and comments received during the circulation of the draft BAR from registered Interested and Affected Parties (I&APs) and organs of state, as listed in your I&APs Database, and others that have jurisdiction in respect of the proposed activity are adequately addressed and included in the final BAR.
15. Copies of original comments received from I&APs and organs of state, which have jurisdiction in respect of the proposed activity are submitted to the Department with the final BAR.
16. Proof of correspondence with the various stakeholders must be included in the final BAR. This must indicate that this draft BAR has been subjected to 30 days public participation process, stating the start and end date of the PPP.
17. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments. In terms of Regulation 41(2)(b) of the EIA Regulations, 2014, as amended, please provide proof of written notice for the availability of the BAR for comment.
18. All issues raised and comments received during the circulation of the draft BAR from I&APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the final BAR, including comments from this Department, and must be incorporated into a Comments and Response Report (CRR).
19. The CRR report must be a separate document from the main report and the format must be in the table format as indicated in *Annexure 1* of this comments letter.
20. Comments from I&APs must not be split and arranged into categories. Comments from each submission must be responded to individually.

21. Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied verbatim and responded to clearly. Please note that a response such as “noted” is not regarded as an adequate response to an I&AP’s comments.

### **Environmental Management Programme (EMPr) for Facility**

22. The EMPr must be developed in terms of Appendix 4 of the EIA Regulations, 2014 as amended.
23. The decommissioning chapter of the EMPr for the facility must contain information relating to the handling, repurposing or disposal of dysfunctional, severely damaged batteries, module and containers.
24. The EMPr must distinguish between impact management actions and impact management outcomes.
25. The EMPr must include all recommendations and mitigation measures recorded in the BAR and specialist studies conducted.
26. The EMPr must include the Chance Find Protocol, included in the Heritage Impact Assessment.

### **Generic Environmental Management Programme (EMPr) for Substation**

27. Part B: Section 2 of the Generic EMPr for the proposed development of the substation must be signed by the applicant and submitted with the final BAR. An unsigned Generic EMPr is regarded as incomplete.

### **General**

28. Please provide coordinates of:
- i. The corner points of the perimeter of the proposed on-site substation area.
  - ii. The bend points for the proposed access road (upgrade).

Please also ensure that the final BAR includes the period for which the Environmental Authorisation is required and the date on which the activity will be concluded as per Appendix 1(3)(1)(q) of the NEMA EIA Regulations, 2014, as amended.

You are further reminded to comply with Regulation 19(1)(a) of the NEMA EIA Regulations, 2014, as amended, which states that: “Where basic assessment must be applied to an application, the applicant must, within 90 days of receipt of the application by the competent authority, submit to the competent authority - (a) a basic assessment report, inclusive of specialist reports, an EMPr, and where applicable a closure plan, which have been subjected to a public participation process of at least 30 days and which reflects the incorporation of comments received, including any comments of the competent authority.”

Should there be significant changes or new information that has been added to the BAR or EMPr which changes or information was not contained in the reports or plans consulted on during the initial public participation process, you are required to comply with Regulation 19(b) of the NEMA EIA Regulations, 2014, as amended, which states: “the applicant must, within 90 days of receipt of the application by the competent authority, submit to the competent authority – (b) a notification in writing that the basic assessment report, inclusive of specialist reports an EMPr, and where applicable, a closure plan, will be submitted within 140 days of receipt of the application by the competent authority, as significant changes have been made or significant new information has been added to the basic assessment report or EMPr or, where applicable, a closure plan, which changes or information was not contained in the reports or plans consulted on during the initial public participation process contemplated in subregulation (1)(a) and that the revised reports or, EMPr or, where applicable, a closure plan will be subjected to another public participation process of at least 30 days”.

Should you fail to meet any of the timeframes stipulated in Regulation 19 of the NEMA EIA Regulations, 2014, as amended, your application will lapse.



You are hereby reminded of Section 24F of the National Environmental Management Act, Act No. 107 of 1998, as amended, that no activity may commence prior to an Environmental Authorisation being granted by the Department.

Yours sincerely



**Ms Milicent Solomons**

**Acting Chief Director: Integrated Environmental Authorisations**

**Department of Forestry, Fisheries and the Environment**

**Signed by: Mr. Vusi Skosana**

**Designation: Director: National Integrated Authorisations**

**EAPASA Registration Ref: 2019/92**

**Date: 13 December 2022**

CC:	Mr Michael Mangnall	WKN Windcurrent SA (Pty) Ltd	Email: <a href="mailto:mangnall@wkn-windcurrent.com">mangnall@wkn-windcurrent.com</a>
	Mr Lufuno Tshikovhi	North West DEDECT	Email: <a href="mailto:L.Tshikovhi@nwpc.gov.za">L.Tshikovhi@nwpc.gov.za</a>
	Mr Lebu Ralekgetho	JB Marks Local Municipality	Email: <a href="mailto:rlebu4139@gmail.com">rlebu4139@gmail.com</a> / <a href="mailto:ralekgetho@jbmmarks.gov.za">ralekgetho@jbmmarks.gov.za</a>

**Annexure 1**

## 1. Format for Comments and Response Report:

Date of comment, format of comment name of organisation/l&AP,	Comment	Response from EAP/Applicant/Specialist
27/03/2021 Email Department of Forestry, Fisheries and the Environment: National Infrastructure Projects (Joe Soap)	Please record C&R trail report in this format  Please update the contact details of the provincial environmental authority	EAP: (Noted)The C&R trail report has been updated into the desired format, see Appendix K  EAP: Details of provincial authority have been updated, see page 16 of the Application form



# forestry, fisheries & the environment

Department:  
Forestry, Fisheries and the Environment  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X447, Pretoria, 0001, Environment House, 473 Steve Biko Road, Pretoria, 0002 Tel: +27 12 399 9000, Fax: + 27 86 625 1042

**Reference:** Highveld Solar PV Facility

**Enquiries:** Ms M Rabothata/ Mr K Mathetja

**Telephone:** (012) 399 9174 **E-mail:** [MRabothata@environment.gov.za](mailto:MRabothata@environment.gov.za)

Ms. Nicolene Venter  
Savannah Environmental  
PO Box 148  
**SUNNINGHILL**  
2157

Telephone Number: (+ 27) 11 656 3237  
Email Address: [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)

## PER E-MAIL

Dear Ms. Venter

### COMMENTS ON THE DRAFT BASIC ASSESSMENT REPORT 240MW HIGHVELD SOLAR PHOTOVOLTAIC (PV) FACILITY NORTH WEST PROVINCE

The Directorate: Biodiversity Conservation reviewed and evaluated the aforementioned report.

Based on the information provided in the report, the larger project area mostly overlaps within terrestrial CBA 2 areas, with a small portion overlapping within terrestrial CBA 1 in the west. In addition, the project area overlaps with an aquatic CBA 1 in the central region, and a small portion of an aquatic CBA 1 in the west. The project area overlap with a Critically Endangered classified river and wetland in the far west. These systems are close to collapse and should be protected as far as possible with appropriate buffers and mitigations for close-by developments.

It should be highly noted that the Directorate does not support any development within a very highly sensitive area and that will result with significant negative residual impacts after mitigation.

Notwithstanding the above, the following recommendations must be considered in the final report:

- Sensitive habitats in close proximity to the development footprint must be avoided or demarcated as No-Go area (i.e. Riverine areas).
- Final walk-through to locate Species of Conservation Concern that can be avoided must be undertaken with a qualified specialist.
- Alien Invasive Plant Species Management Plan and Rehabilitation Plan must be developed and submitted as part of the final report to mitigate on habitat degradation due to erosion and alien plant invasion.
- Appropriate buffer must be established around medium sensitive habitats (i.e. River).



**COMMENTS ON THE DRAFT BASIC ASSESSMENT REPORT 240MW HIGHVELD SOLAR PHOTOVOLTAIC (PV) FACILITY NORTH WEST PROVINCE.**

- Stormwater Management Plan must be developed and submitted with the final report to ensure that the integrity of the waterbody is maintained.
- Permit from relevant authorities must be obtained for the removal or disturbance of any TOPs, Red Data listed or provincially protected species.
- The final sensitivity Layout Map overlaid with sensitivities and indicating the final footprint for the proposed development avoiding environmentally sensitive areas must be included in the Final report.
- The EMPr must include recommendations and mitigation measures recorded in the terrestrial and avifaunal specialist studies.

The final report must comply with all the requirements as outlined in the Environmental Impact Assessment (EIA) guideline for renewable energy projects and the Best Practice Guideline for Birds & Solar Energy for assessing and monitoring the impact of solar energy facilities on birds in Southern Africa.

In conclusion, please note that all Public Participation Process documents related to Biodiversity EIA review and any other Biodiversity EIA queries must be submitted to the Directorate: Biodiversity Conservation at Email: [BCAdmin@environment.gov.za](mailto:BCAdmin@environment.gov.za) for attention of **Mr Seoka Lekota**.

Yours faithfully



**Mr. Seoka Lekota**  
**Control Biodiversity Officer Grade B: Biodiversity Conservation**  
**Department of Forestry, Fisheries & the Environment**  
**Letter signed by: Mrs. MP Makitla**  
**Designation: Control Biodiversity Officer Grade A**  
**Date: 15/12/2022**

**MOBILE TELEPHONE NETWORKS PROPRIETARY LIMITED**  
**(Registration number:1993/ 001436/07)**  
216 14<sup>th</sup> Avenue, Fairland, 2195  
Private Bag 9955, Cresta, 2118, South Africa  
Tel +2711 912 3000 Fax +2711 912 4670



**18 November 2022**

**For Attention: Nicolene Venter**  
Savannah Environmental  
PO Box 148  
Sunninghill  
2157  
South Africa

**Letter of Clearance: Highveld Solar PV Facility**

Dear Sir/Madam,

In response to your request for a letter of clearance regarding the planned PV facility located at approximately 15km north- east of Stilfontein within the JB Marks Local Municipality in the North-West Province.

MTN hereby confirms that presently, there would be no foreseeable interference or obstructions to MTN's network caused by the above-mentioned Solar PV facility.

MTN has no objection to the construction of the aforementioned facility, subject to the project conforming to the relevant ICASA regulations as it relates to radio frequency emissions.

Kind Regards,

A handwritten signature in black ink that reads "T. Smith".

Tessa Smith  
Property: Central Region  
MTN SA

**Directors:** MJ Harper (Chairman), CS Molapisi (Chief Executive Officer), D Molefe (Chief Financial Officer), MJ Bosman, SA Fakie, N Khan, T Leoka, TBL Molefe, FJ Moolman, RT Mupita, PD Norman, R Ramashia, J Schulte-Bockum, and SA Zinn  
**Company Secretary** PT Sishuba-Bonoyi  
**Reg. No.** 1993/001436/07  
**VAT Reg.** 4630140434

**From:** Theunis Meyer <Theunis.Meyer@nwu.ac.za>  
**Sent:** Tuesday, 22 November 2022 12:20  
**To:** Savannah Info <info@savannahsa.com>  
**Subject:** Please send me more information

Hi Savannah SA,

Please will you send me the Afrikaans version of the Highveld PV Solar development, which is not accessible on your website. The contact us functionality is also not working.

Thanks!

Theunis Meyer

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**NWU PRIVACY STATEMENT:**

<http://www.nwu.ac.za/it/gov-man/disclaimer.html>

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