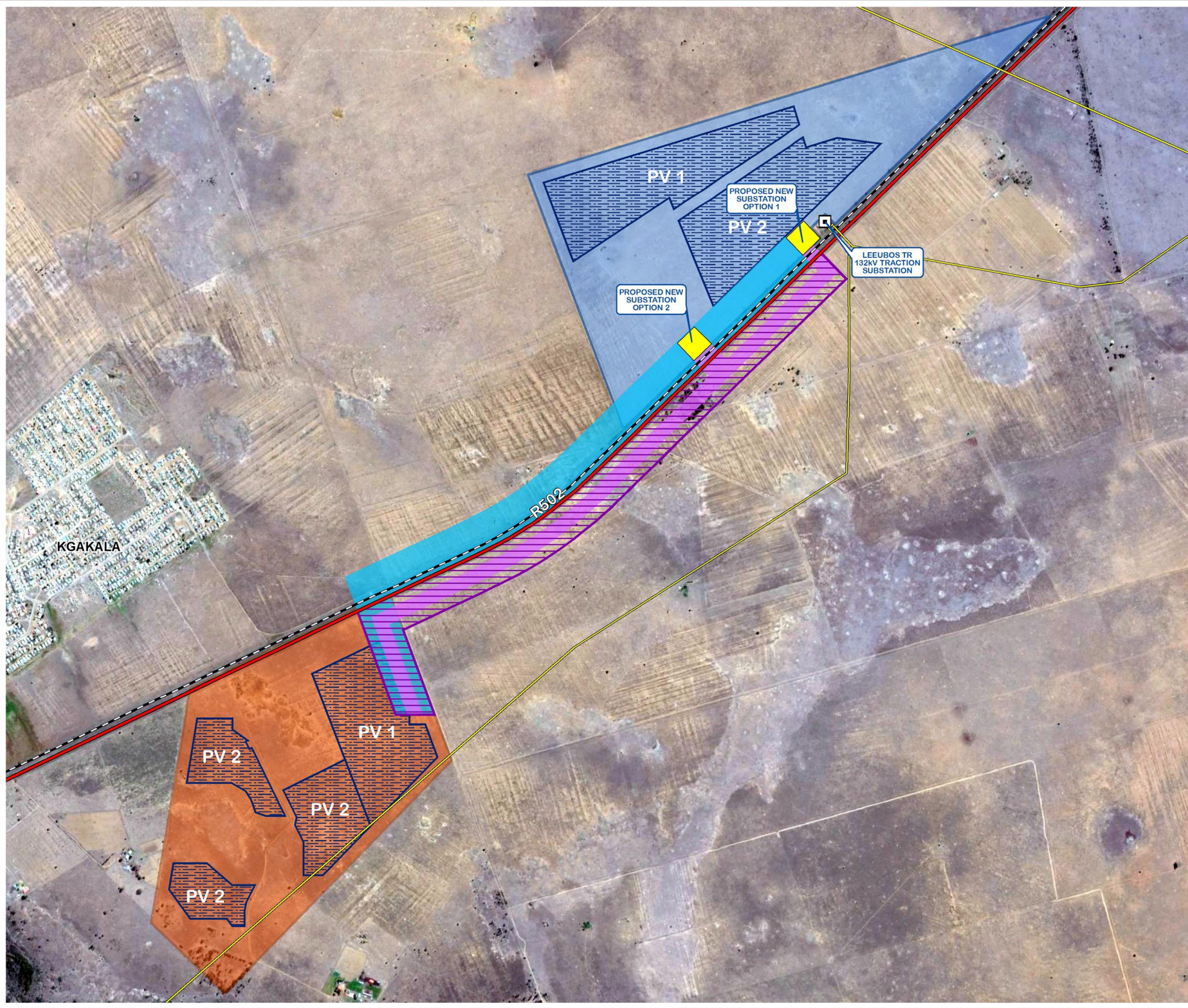


PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY

LEEUBOSCH PV1 PROJECT
NEAR LEEUDORINGSTAD
NORTH WEST PROVINCE

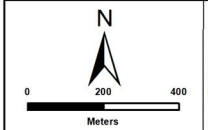
ASSOCIATED PROJECTS



Legend

- Main Road
- Railway
- Existing High Voltage Power Lines (88, 132 & 400kV)
- Existing Substations
- Leeuwbosch PV1 & PV2 Application Site
- Wildebeestkuil PV1 & PV2 Application Site
- PV Project Development Areas
- Proposed Power Line Corridor (Option 1)
- Proposed Power Line Corridor (Option 2A)
- Proposed Power Line Corridor (Option 2B)
- Proposed New Substation Site Alternatives

SOURCE:
GOOGLE EARTH, 2016



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Map Ref No 15962/L1_BA10	Revision 0	Date
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PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY





LEEUBOSCH PV1 PROJECT
NEAR LEEUDORINGSTAD
NORTH WEST PROVINCE

CRITICAL BIODIVERSITY AREAS

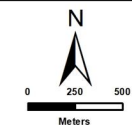
Legend

-  Main Roads
-  Railway
-  Rivers
-  Existing High Voltage Power Lines (88, 132 & 400kV)
-  Existing Substations
-  Leeuwbosch PV1 Application Site
-  PV Development Area

Critical Biodiversity Areas

-  CBA1
-  CBA2
-  ESA1
-  ESA2

SOURCE:
ESKOM, 2012
NORTH WEST TERRESTRIAL CRITICAL BIODIVERSITY
AREAS 2015



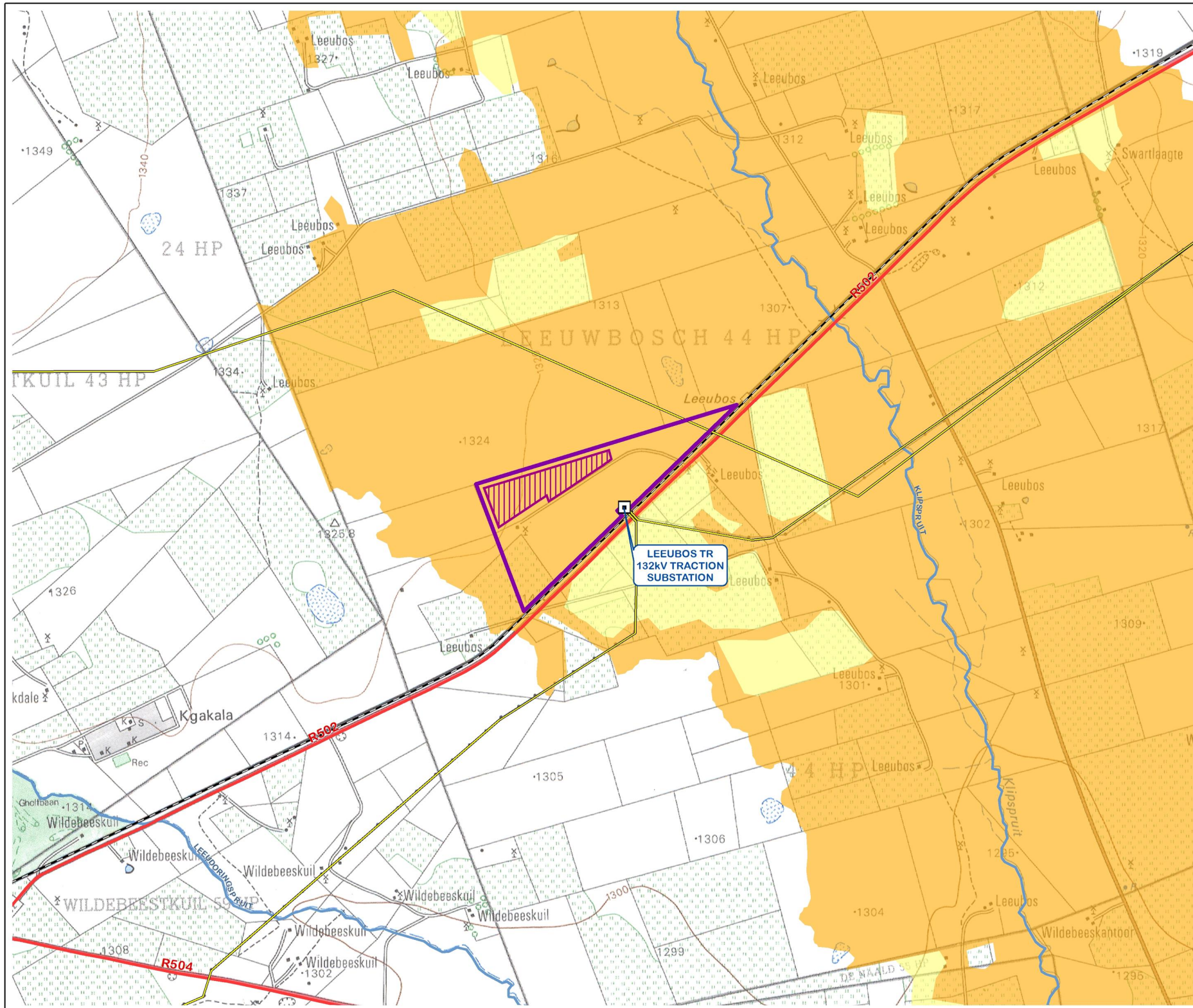
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PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY

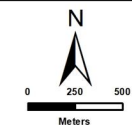
LEEUBOSCH PV1 PROJECT
NEAR LEEUDORINGSTAD
NORTH WEST PROVINCE

BROAD LAND COVER CLASSIFICATION

Legend

-  Main Roads
 -  Railway
 -  Rivers
 -  Existing High Voltage Power Lines (88, 132 & 400kV)
 -  Existing Substations
 -  Leeuwbosch PV1 Application Site
 -  PV Development Area
- ### Land Cover Classification
-  Built-Up Areas
 -  Cultivated Land
 -  Forested Land
 -  Grassland
 -  Shrubland
 -  Wetlands / Waterbodies

SOURCE:
ESKOM, 2012
2018 SA NATIONAL LAND COVER
(© GEOTERRAIMAGE - 2018)

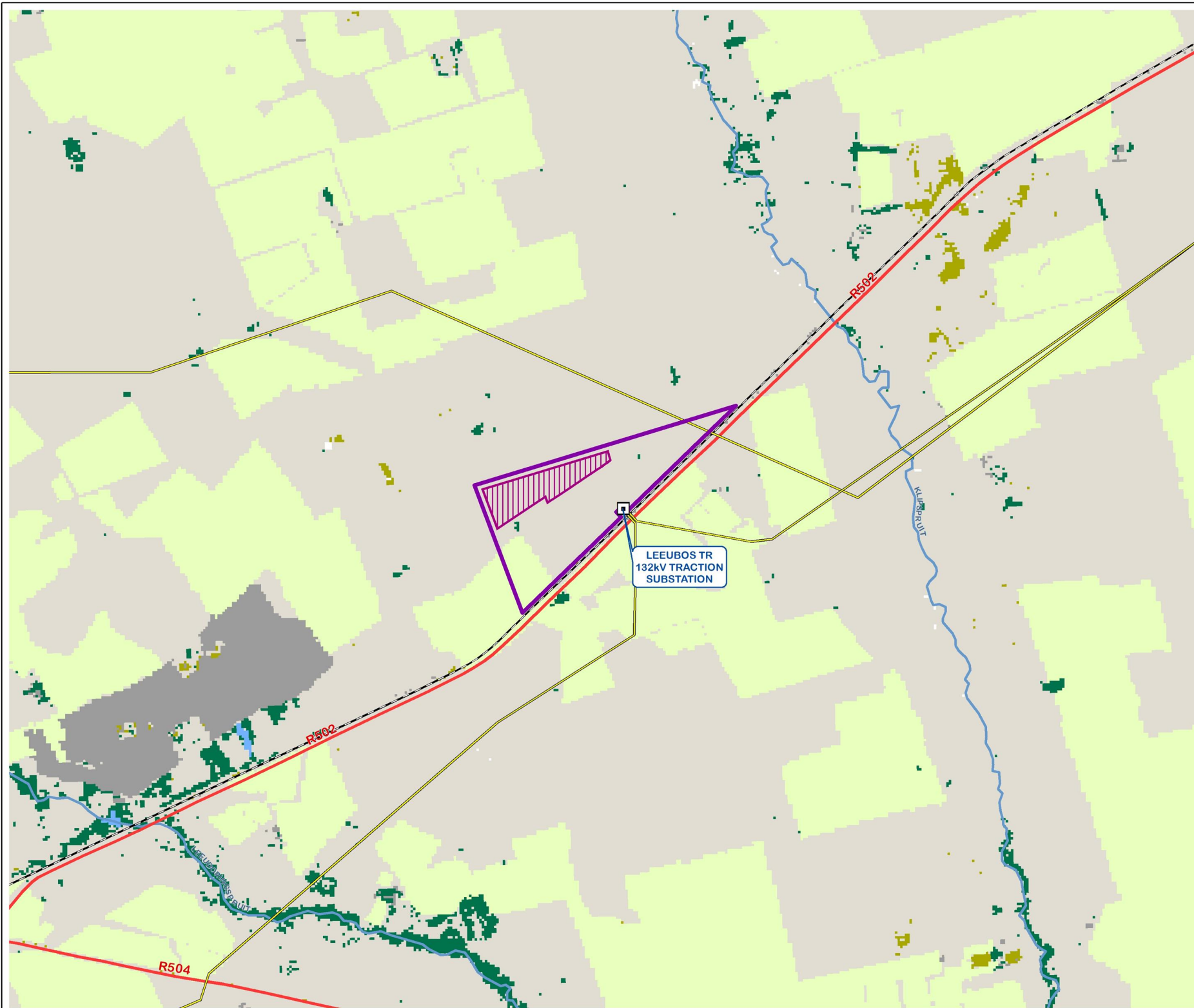


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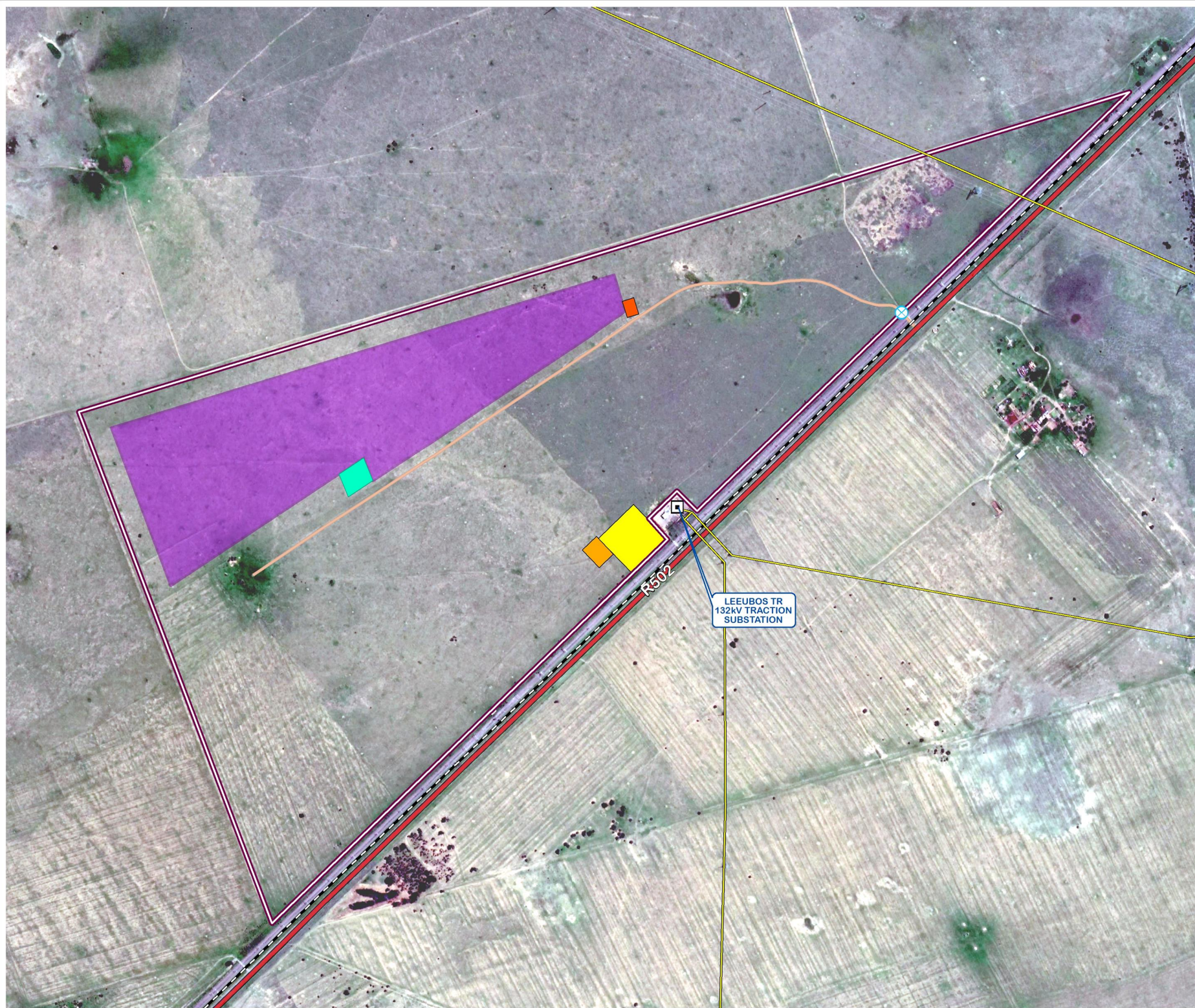
PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY

LEEUBOSCH PV1 PROJECT
NEAR LEEUDORINGSTAD
NORTH WEST PROVINCE

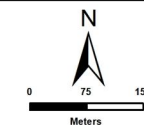
PROPOSED SITE LAYOUT

Legend

-  Main Roads
 -  Railway
 -  Existing High Voltage Power Lines (132 & 400kV)
 -  Existing Substation
 -  Leeuwbosch PV1 Application Site
- ### Proposed Layout Components
-  PV Development Area
 -  Substation Site (Subject of Separate Application)
 -  Switching Substation
 -  Temporary Building Zone
 -  Guard House
 -  Existing Roads (To be Upgraded)
 -  Site Access Point



SOURCE:
ESKOM, 2012
GOOGLE EARTH, 2019



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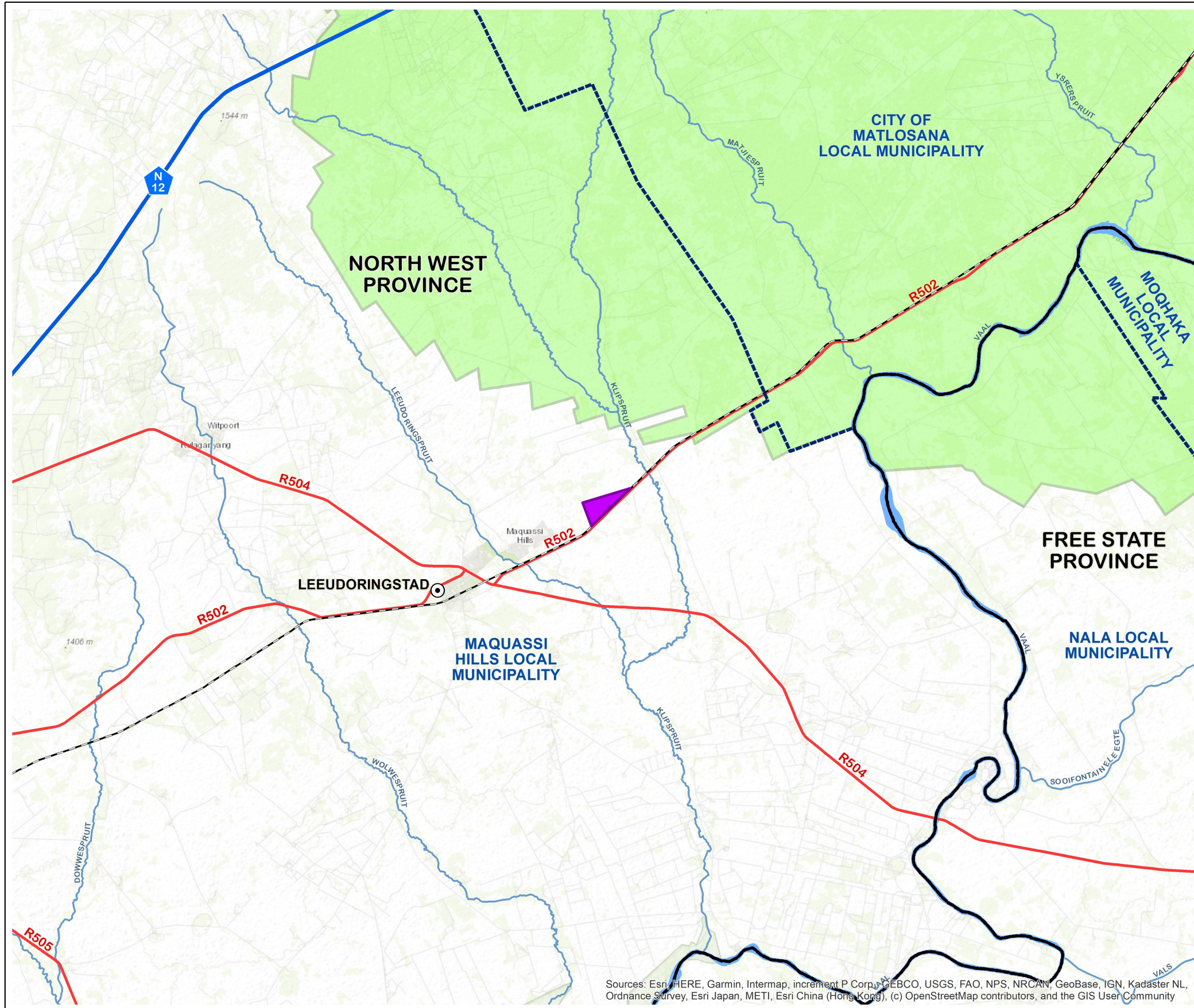
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Map Ref No 15962/L1_BA03	Revision 0	Date
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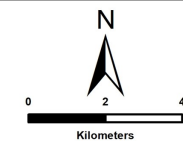
**PROPOSED
CONSTRUCTION OF
A SOLAR PHOTOVOLTAIC
(PV) ENERGY FACILITY**
**LEEUBOSCH PV1 PROJECT
NEAR LEEUDORINGSTAD
NORTH WEST PROVINCE**
**RENEWABLE ENERGY
DEVELOPMENT ZONES**



Legend

- Main Towns
- Provincial Boundaries
- Local Municipal Boundaries
- National Route (N12)
- Main Roads
- Railway
- Rivers
- Klerksdorp - REDZ10
- Leeuwsbosch PV1 Application Site

SOURCE:
 DFFE, 2021
 ESRI, 2020
 MUNICIPAL DEMARCATION BOARD, 2016
 NGI, 2015



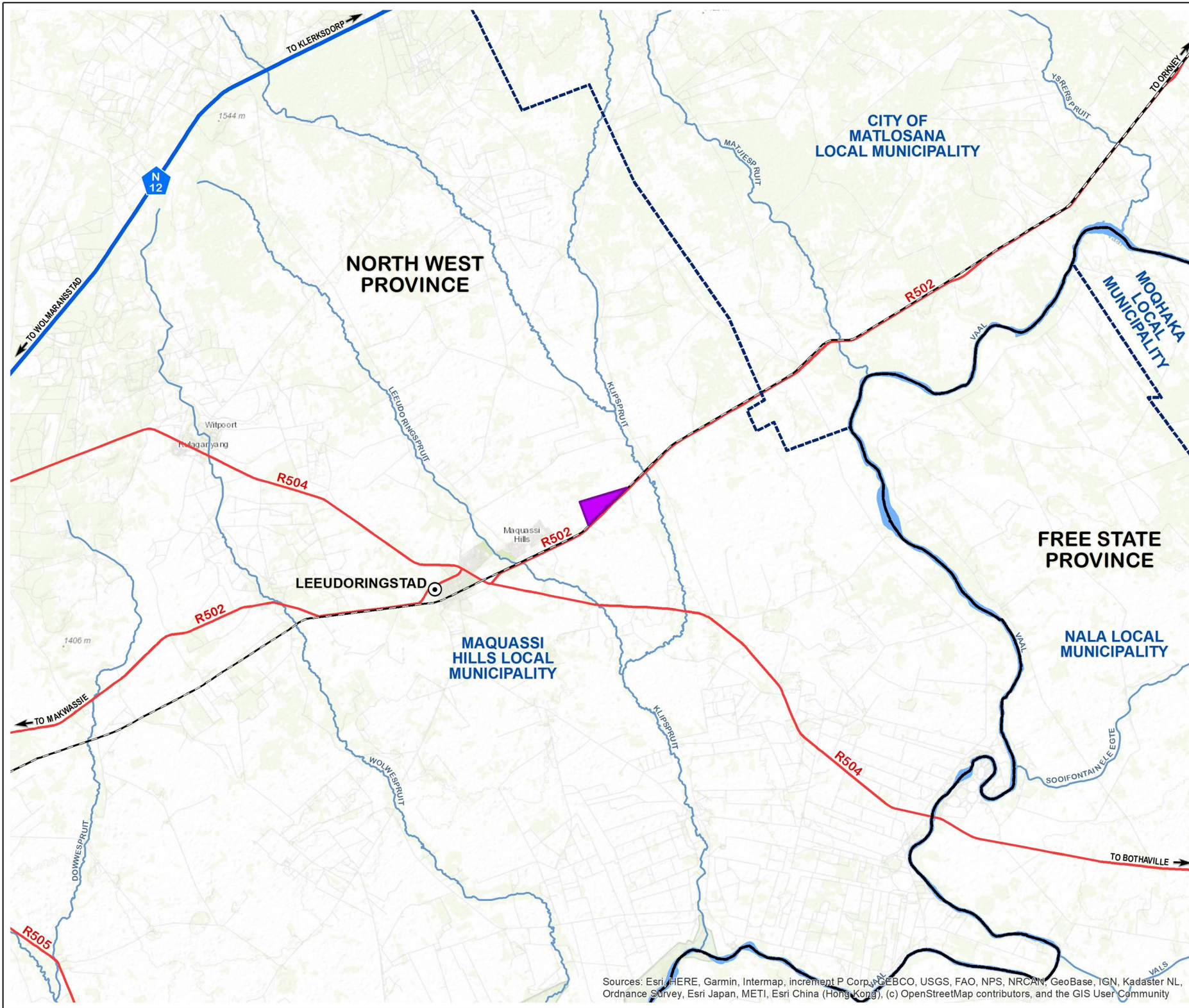
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PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY

LEEUBOSCH PV1 PROJECT NEAR LEEUDORINGSTAD NORTH WEST PROVINCE

REGIONAL CONTEXT

- Legend**
- Main Towns
 - Provincial Boundaries
 - Local Municipal Boundaries
 - National Route (N12)
 - Main Roads
 - Railway
 - Rivers
 - Leeuwbosch PV1 Application Site

SOURCE:
 ESRI, 2020
 MUNICIPAL DEMARCATION BOARD, 2016
 NGI, 2015

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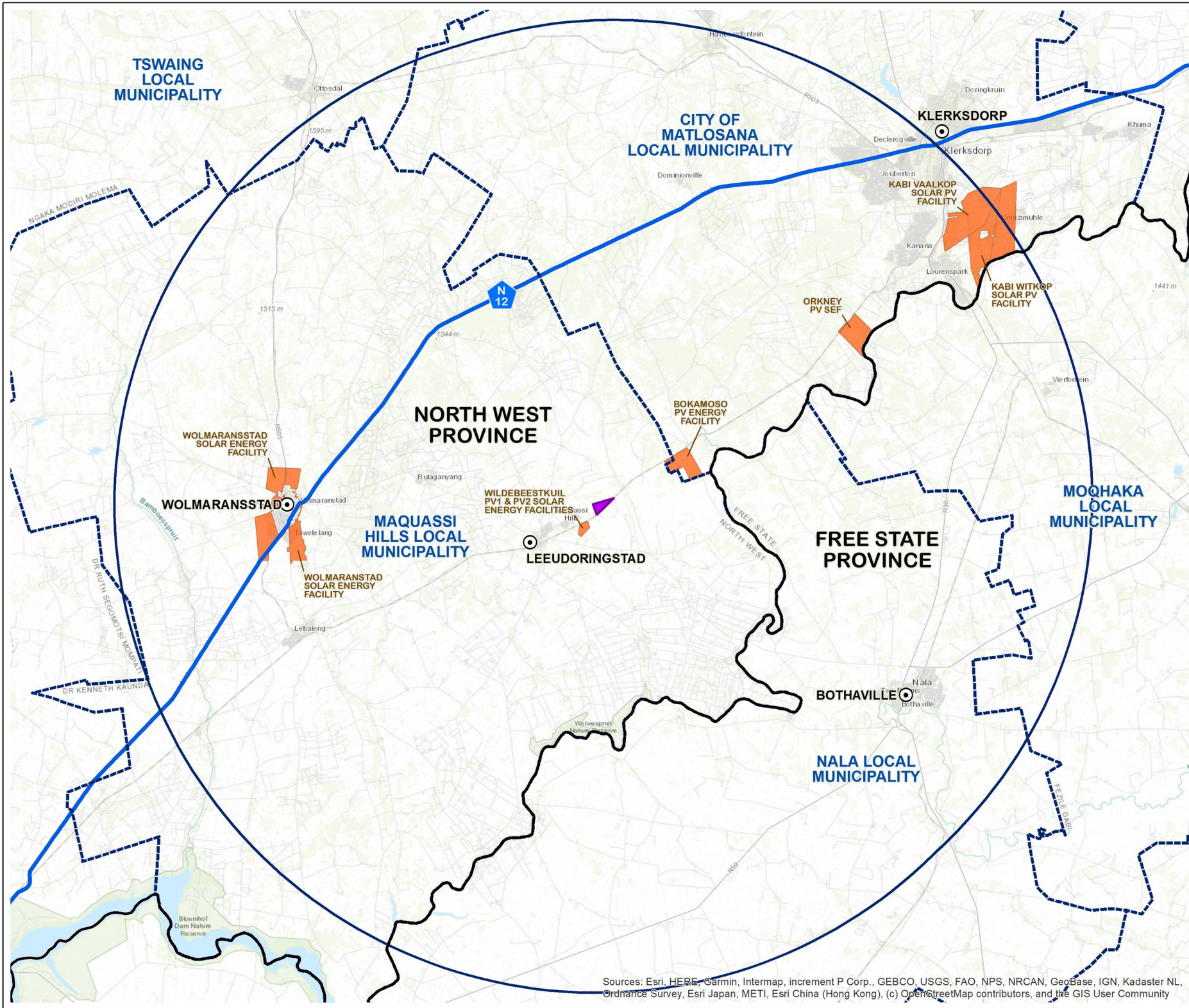
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Map Ref No 15962/L1_BA01	Revision 0	Date

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PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY

LEEUBOSCH PV1 PROJECT NEAR LEEUDORINGSTAD NORTH WEST PROVINCE

RENEWABLE ENERGY PROJECTS (PROPOSED)

- Legend**
- Main Towns
 - Provincial Boundaries
 - Local Municipal Boundaries
 - National Route (N12)
 - Leeuwbosch PV1 Application Site
 - 50km Radius
- Renewable Energy Application Sites**
- Solar PV

SOURCE:
DEFF, 2020
ESRI, 2020
MUNICIPAL DEMARCATION BOARD, 2016

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PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY

LEEUBOSCH PV1 PROJECT
NEAR LEEUDORINGSTAD
NORTH WEST PROVINCE

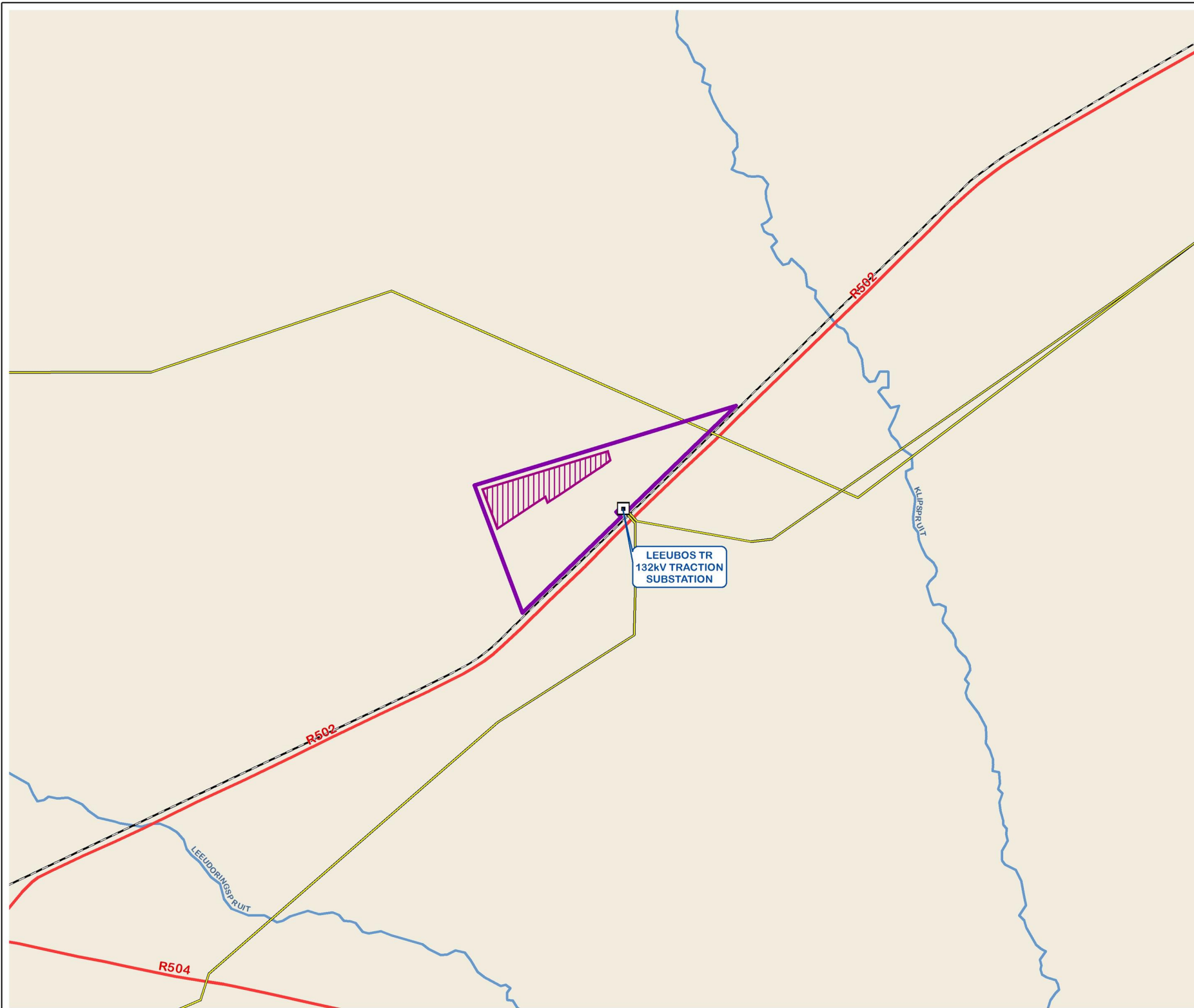
VEGETATION CLASSIFICATION

Legend

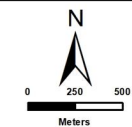
-  Main Roads
-  Railway
-  Rivers
-  Existing High Voltage Power Lines (88, 132 & 400kV)
-  Existing Substations
-  Leeuwbosch PV1 Application Site
-  PV Development Area

Vegetation Classification

-  Vaal-Vet Sandy Grassland



SOURCE:
ESKOM, 2012
SANBI, 2018



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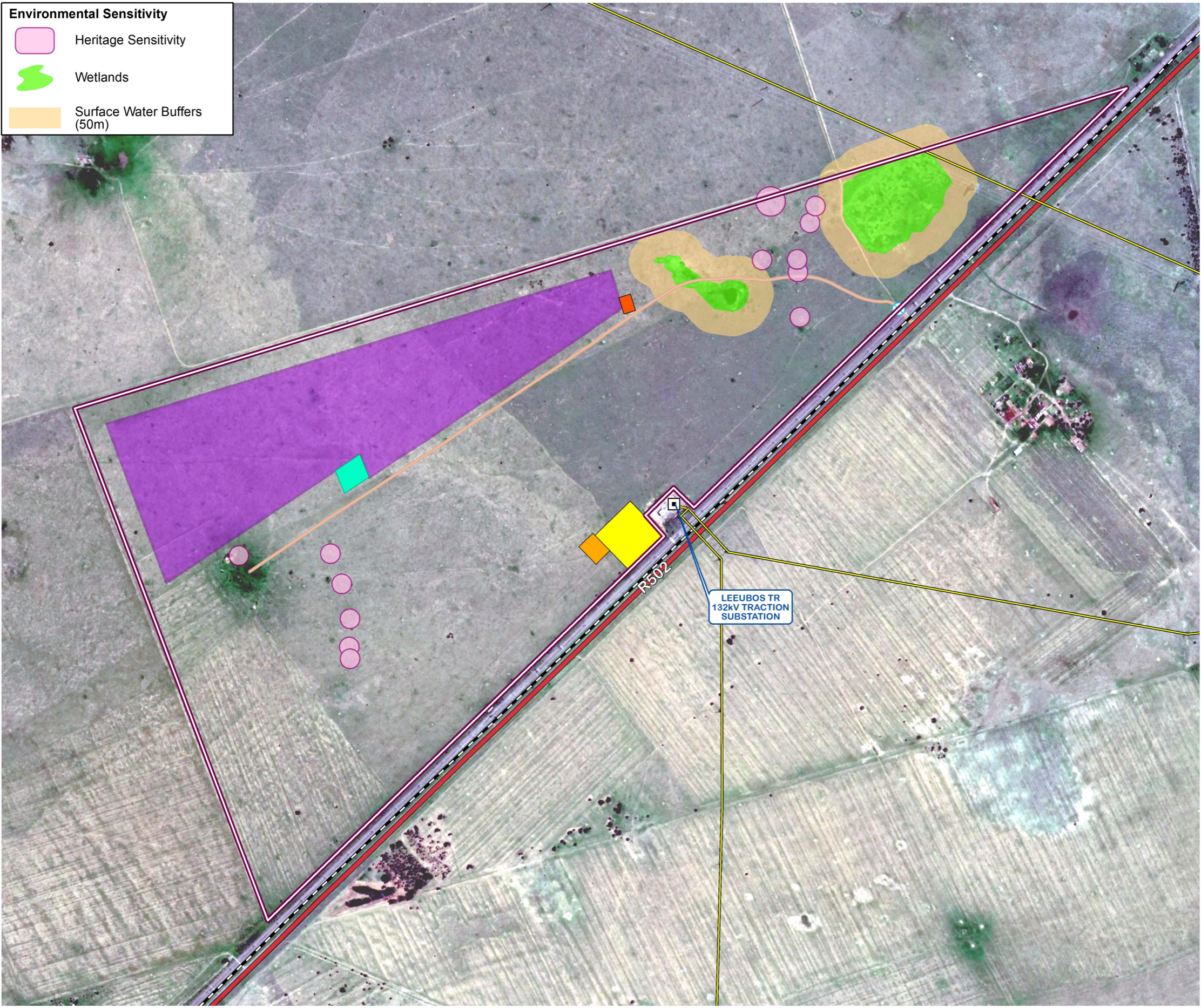
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Environmental Sensitivity

-  Heritage Sensitivity
-  Wetlands
-  Surface Water Buffers (50m)










PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY
LEEUBOSCH PV1 PROJECT
NEAR LEEUDORINGSTAD
NORTH WEST PROVINCE
PROPOSED SITE LAYOUT WITH ENVIRONMENTAL SENSITIVITY OVERLAY

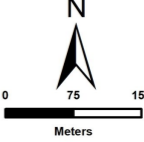
Legend

-  Main Roads
-  Railway
-  Existing High Voltage Power Lines (132 & 400kV)
-  Existing Substation
-  Leeuwbosch PV1 Application Site

Proposed Layout Components

-  PV Development
-  Substation Site (Subject of Separate Application)
-  Switching Substation
-  Temporary Building Zone
-  Guard House
-  Existing Roads (To be Upgraded)
-  Site Access

SOURCE:
 ESKOM, 2012
 GOOGLE EARTH, 2019



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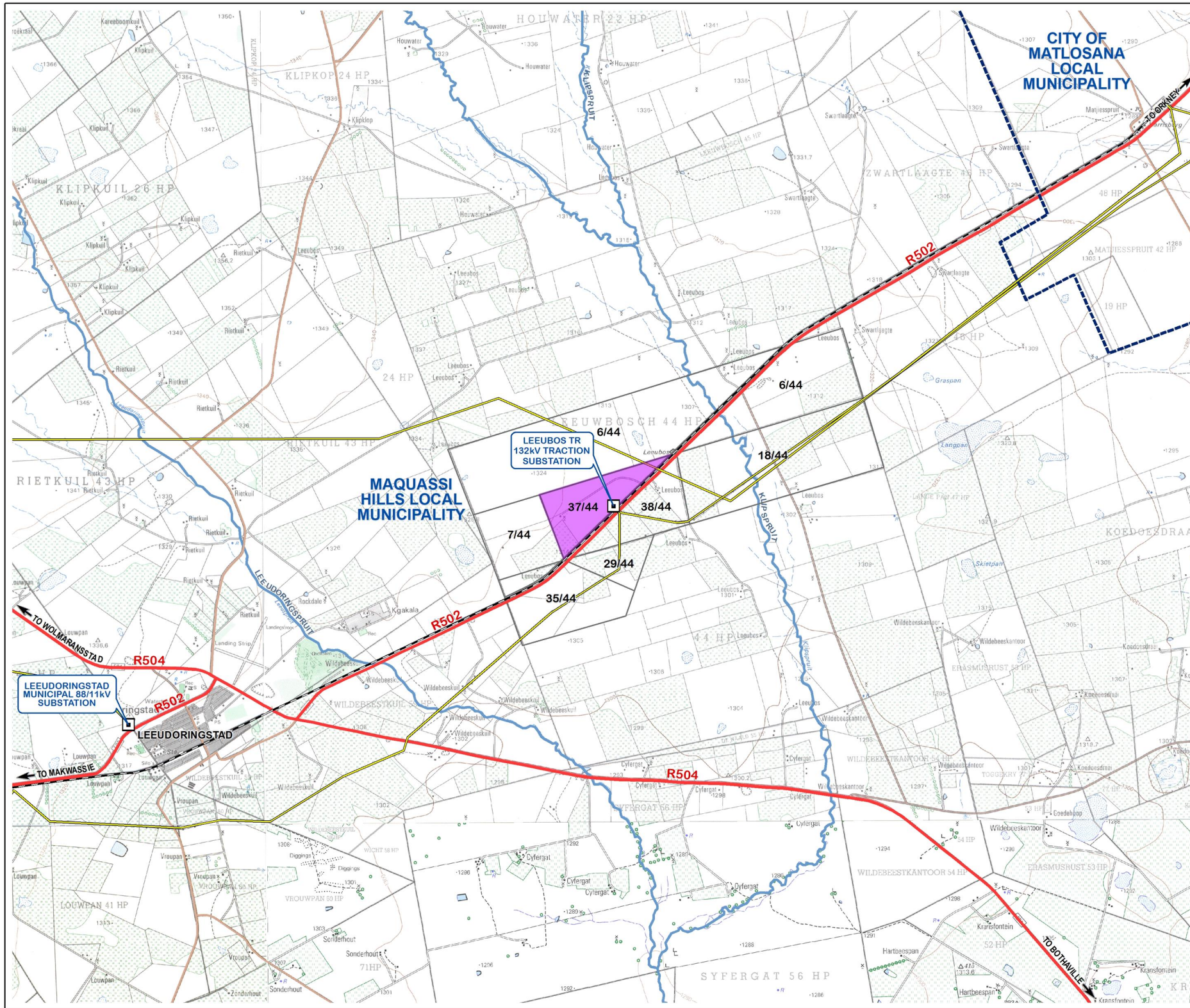
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PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY

LEEUBOSCH PV1 PROJECT NEAR LEEUDORINGSTAD NORTH WEST PROVINCE

SITE LOCALITY

- Legend**
- Local Municipal Boundaries
 - Main Roads
 - Secondary Roads
 - Railway
 - Rivers
 - Existing High Voltage Power Lines (88, 132 & 400kV)
 - Existing Substations
 - Adjoining Farm Boundaries
 - Leeuwbosch PV1 Application Site*

*Portion 37 of the Farm Leeuwbosch No 44

SOURCE:
ESKOM, 2012
MUNICIPAL DEMARCATION BOARD, 2016
NGI, 2015

N

Kilometers

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PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY

LEEUBOSCH PV1 PROJECT
NEAR LEEUDORINGSTAD
NORTH WEST PROVINCE

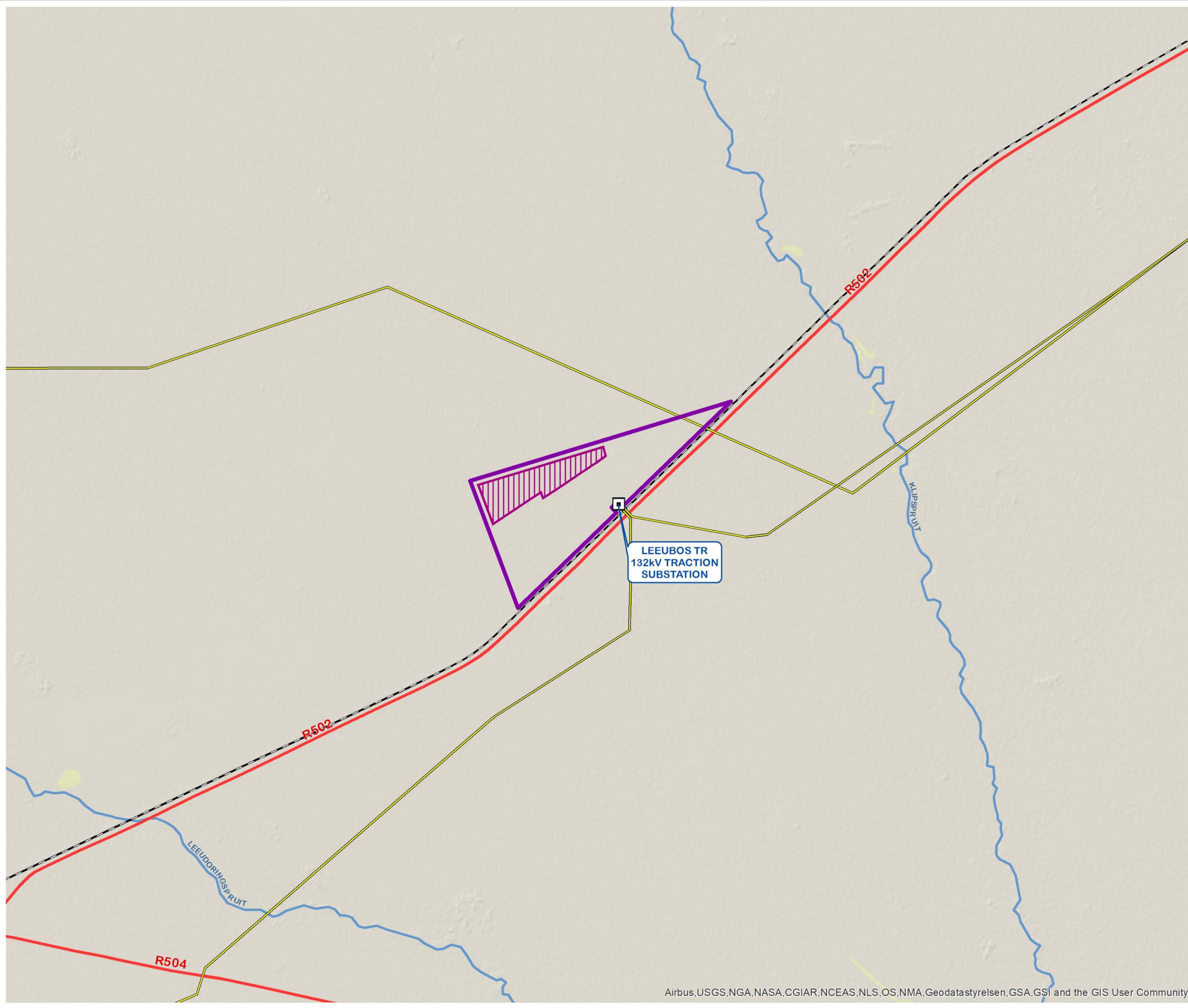
SLOPE CLASSIFICATION

Legend

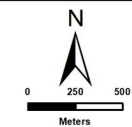
-  Main Roads
-  Railway
-  Rivers
-  Existing High Voltage Power Lines (88, 132 & 400kV)
-  Existing Substations
-  Leeuwbosch PV1 Application Site
-  PV Development Area

Slope Classification

-  Flatter than 1:50
-  1:50 - 1:20



SOURCE:
ESKOM, 2012
ESRI, 2020
NGI, 2015



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PROPOSED CONSTRUCTION OF A SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY



LEEUBOSCH PV1 PROJECT
NEAR LEEUDORINGSTAD
NORTH WEST PROVINCE

TOPOGRAPHY

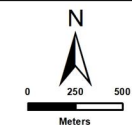
Legend

-  Main Roads
-  Railway
-  Rivers
-  Contours (20m Interval)
-  Contours (5m Interval)
-  Existing High Voltage Power Lines (88, 132 & 400kV)
-  Existing Substations
-  Leeuwbosch PV1 Application Site
-  PV Development Area

Elevation (msl)

-  High: >1,345m
-  Low: <=1,295m

SOURCE:
ESKOM, 2012
ESRI, 2020
NGI, 2015



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