



- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 5 - Rironi – Mai Mahiu

- Structural Project Elements**
- Underpass
 - Foot Overbridge
 - Noise Barrier *
 - Noise Berm *
 - Service Lane
 - Truck Bay

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- Religious Institution
 - School Institution
 - Flooding area
- Point of Interest**
- Drinking Water or Water Well
- Worship Centers**
- Christian

- Utility**
- Existing Utilities**
- Lamp Post

VINCI **meridiam**

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-1

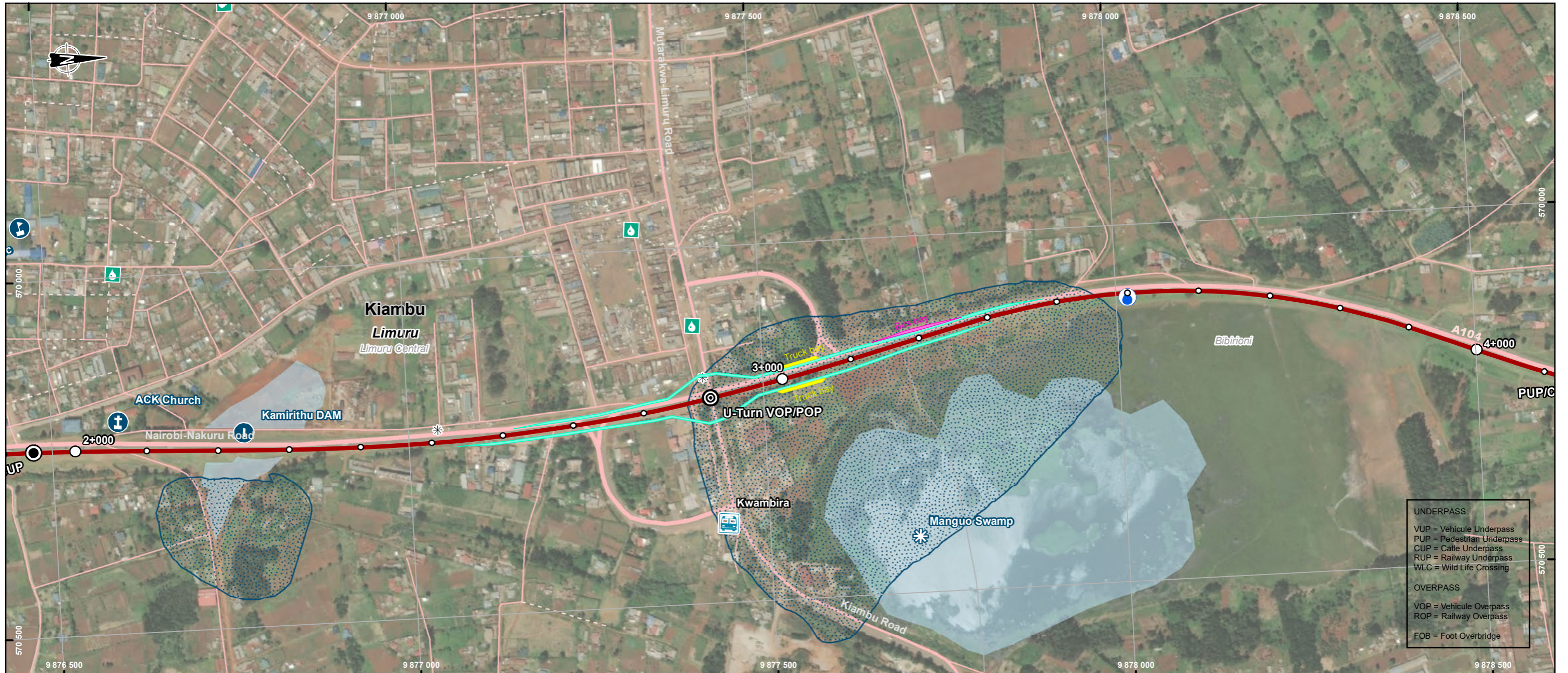
Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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Preparation : C. Abdel-Malek
 Drawing : A. Monnard
 Validation : G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Overpass
 - Underpass
 - Run-off Water Treatment Equipment
 - Bus Bay
 - Service Lane
 - Truck Bay

- Biophysical Environment**
- Watercourse
 - Waterbody

- Human Environment**
- Sensitive Sites**
- Infrastructure
 - Religious Institution
 - School Institution
 - Sensitive Site
 - Flooding area
- Point of Interest**
- Drinking Water or Water Well

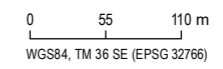
- Utility**
- Existing Utilities**
- Lamp Post

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INVESTING FOR THE COMMUNITY

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-2

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12



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Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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UNDERPASS
VUP = Vehicle Underpass
PUP = Pedestrian Underpass
CUP = Cattle Underpass
RUP = Railway Underpass
WLC = Wild Life Crossing
OVERPASS
VOP = Vehicle Overpass
ROP = Railway Overpass
FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Underpass
 - Climbing Lane *
 - Service Lane

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- Farming activities
 - Infrastructure
 - Market and shopping area
- Point of Interest**
- Drinking Water or Water Well

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-3

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

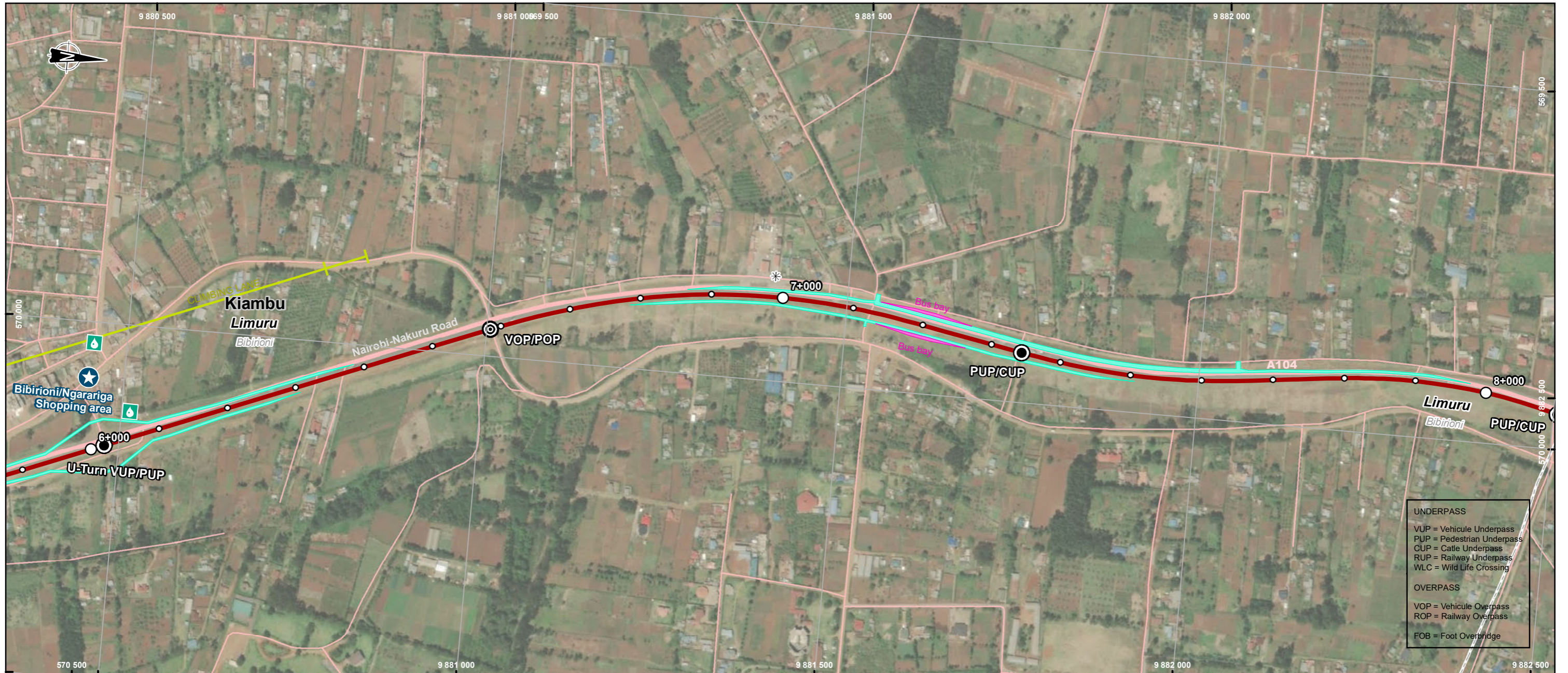
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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 1 - Rironi – Naivasha

Structural Project Elements

- Overpass
- Underpass
- Climbing Lane *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Market and shopping area

Point of Interest

- Drinking Water or Water Well

Utility

Existing Utilities

- Lamp Post

- UNDERPASS**
- VJP = Vehicle Underpass
 - PJP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-4

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

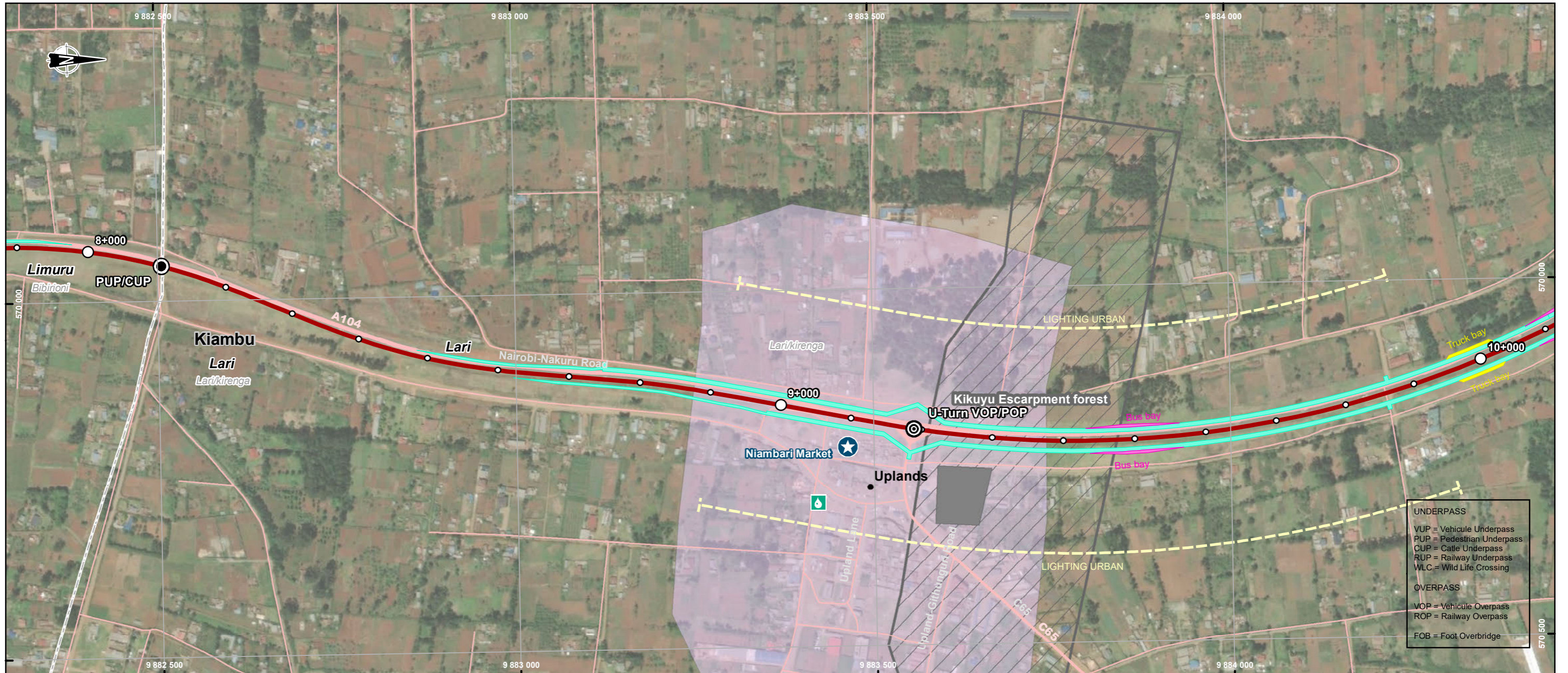
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Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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UNDERPASS
 VUP = Vehicle Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 1 - Rironi – Naivasha

Structural Project Elements

- Overpass
- Underpass
- Lighting Urban *
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Protected Areas

- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

Sensitives Sites

- Market and shopping area

Point of Interest

- Drinking Water or Water Well
- Worship Building or Area

Landuse (OSM)

- Residential



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 1 - Rironi – Naivasha
Sheet 1-5

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

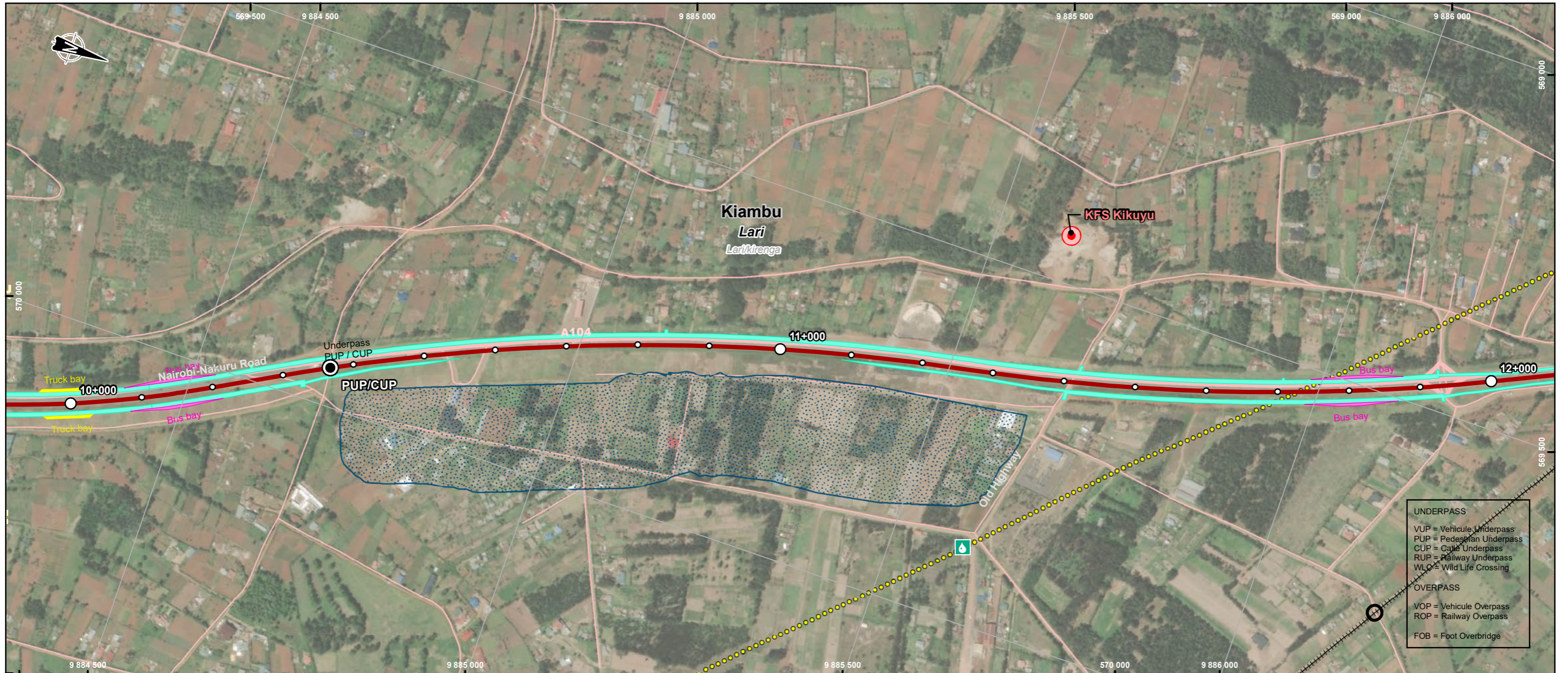
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Preparation : C. Abdel-Malek
 Drawing : A. Monnard
 Validation : G. Pothier
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UNDERPASS	
VUP	= Vehicle Underpass
PUP	= Pedestrian Underpass
CUP	= Cable Underpass
RUP	= Railway Underpass
WLC	= Wild Life Crossing
OVERPASS	
VOP	= Vehicle Overpass
ROP	= Railway Overpass
FOB	= Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 1 - Rironi – Naivasha

Quarries considered

- Rejected

Structural Project Elements

- Underpass
- Lighting Urban *
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

- Flooding area
- Point of Interest**
- Drinking Water or Water Well
- Existing Utilities**
- Power Transmission Line

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-6

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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Preparation: C. Abdel-Malek
Drawing: A. Monnard
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UNDERPASS
 VJP = Vehicule Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

Structural Project Elements

- Underpass
- Climbing Lane *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse
- Protected Areas**
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Sensitive Sites**
- Accident Spot
- View point
- View point and touristic sites
- Point of Interest**
- Drinking Water or Water Well

Utility

- Existing Utilities**
- Telcom Mast
- Existing Utilities**
- Power Transmission Line



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-7

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- railway
 - Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Underpass
 - Bus Bay
 - Service Lane

- Biophysical Environment**
- Watercourse
- Protected**
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- Human Environment**
- Sensitive Sites**
- Health Facilities
 - Religious Institution
 - School Institution
 - View point and touristic sites
- Point of Interest**
- Drinking Water or Water Well

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-8

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

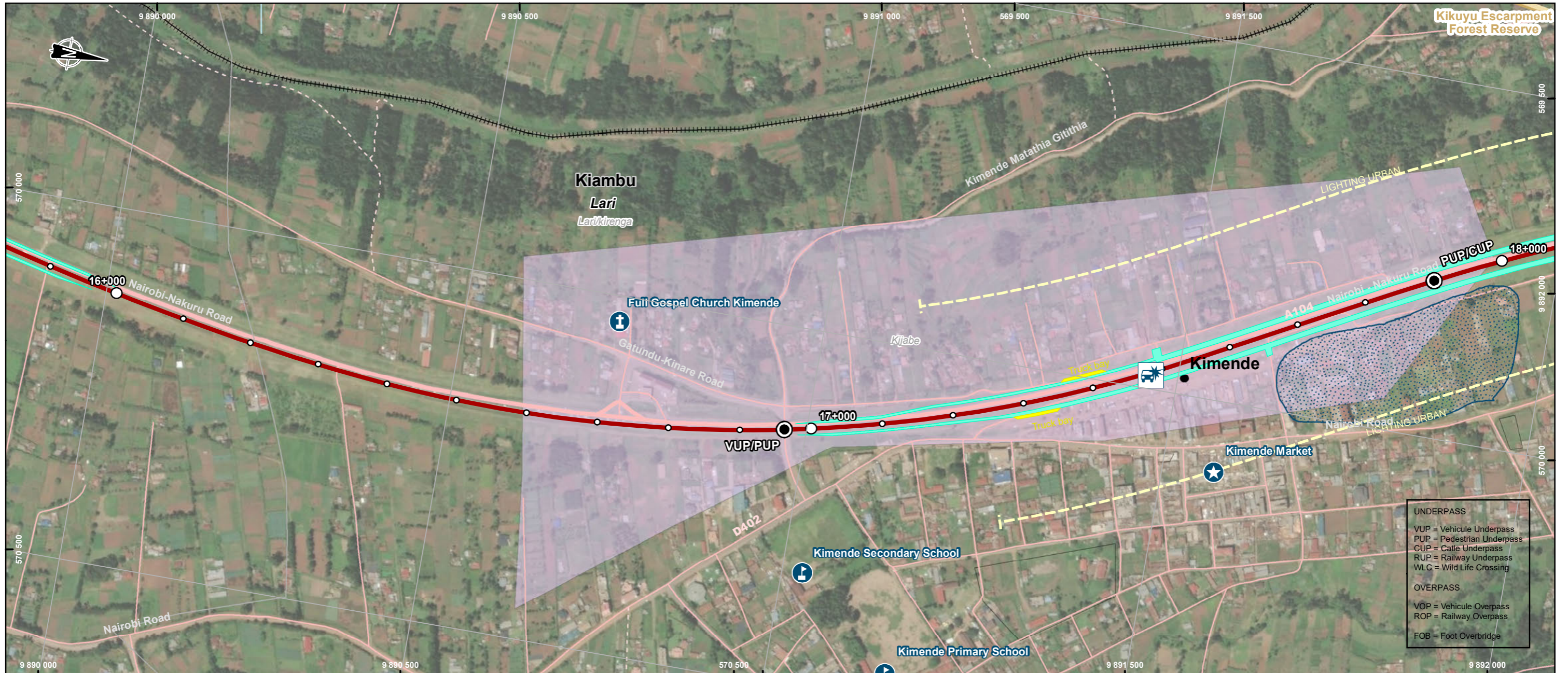
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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- railway
 - Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Underpass
 - Lighting Urban *
 - Service Lane
 - Truck Bay

- Biophysical Environment**
- Watercourse
- Protected**
- National Level**
- Forest Reserve

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Market and shopping area
 - Religious Institution
 - School Institution
 - Flooding area
- Landuse (OSM)**
- Allotments
 - Residential

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-9

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

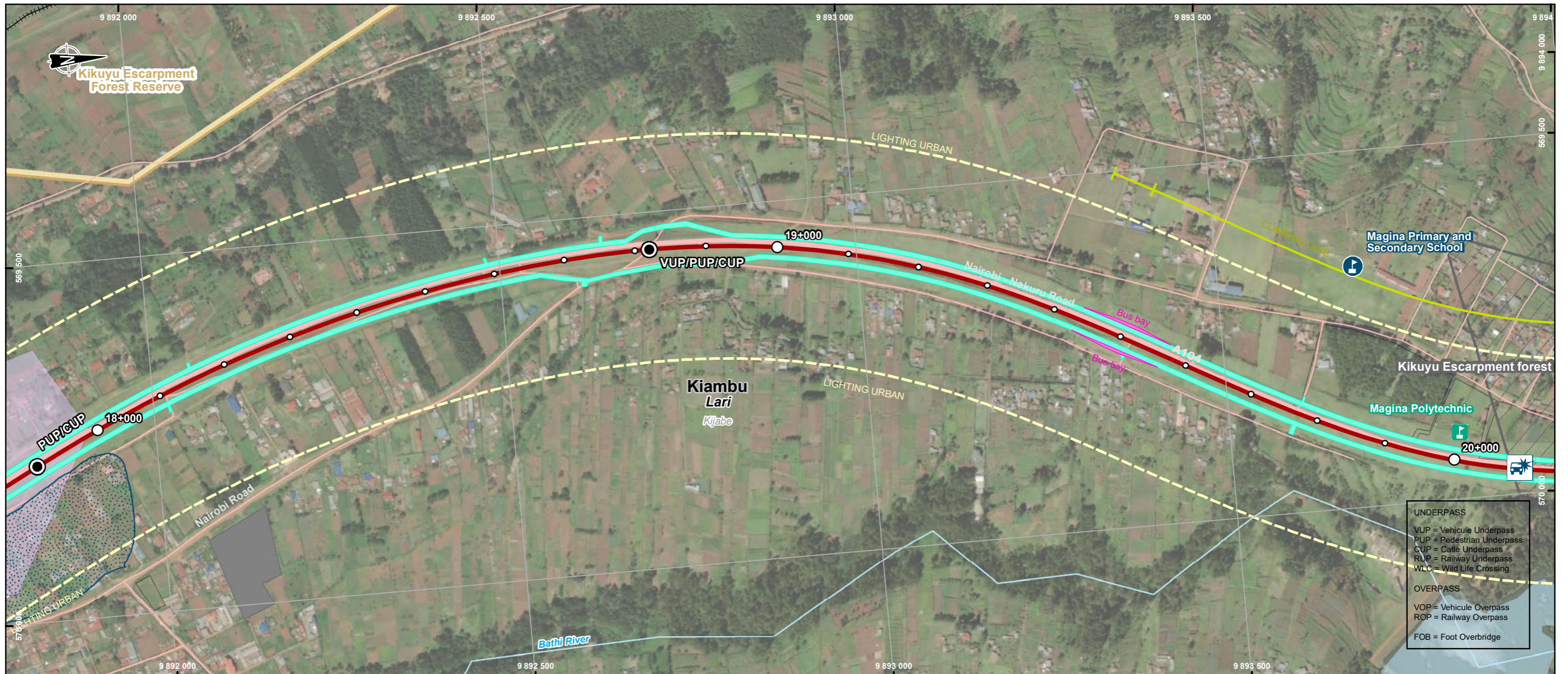
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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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UNDERPASS	
VUP	= Vehicle Underpass
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CUP	= Cattle Underpass
RUP	= Railway Underpass
WLC	= Wild Life Crossing
OVERPASS	
VOP	= Vehicle Overpass
ROP	= Railway Overpass
FOB	= Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 1 - Rironi - Naivasha

Structural Project Elements

- Underpass
- Lighting Urban *
- Climbing Lane *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse
- Waterbody
- Protected**
- National Level**
- Forest Reserve
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Sensitive Sites**
- Accident Spot
- School Institution
- Flooding area
- Point of Interest**
- School, College or Kindergarden
- Worship Building or Area
- Landuse (OSM)**
- Allotments
- Residential



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi - Naivasha Sheet 1-10

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Underpass
 - Lighting Urban *
 - Climbing Lane *
 - Service Lane

- Biophysical Environment**
- Watercourse
 - Waterbody
- Protected**
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Health Facilities
 - Market and shopping area
 - School Institution
- Point of Interest**
- School, College or Kindergarden
 - Graveyard
 - Park, Picnic Site or Playground
 - Worship Building or Area
- Landuse (OSM)**
- Allotments

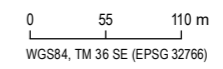
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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 1 - Rironi – Naivasha
Sheet 1-11

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

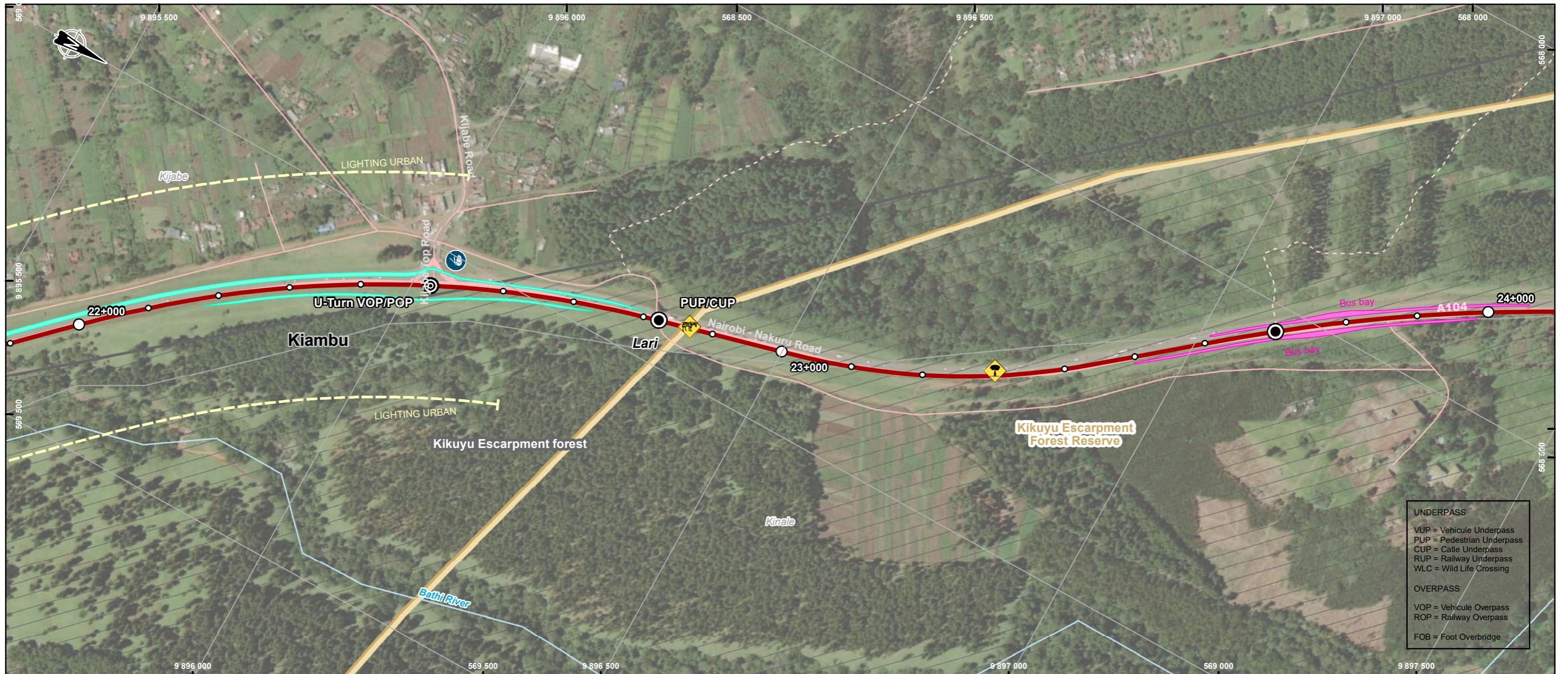


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Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Overpass
 - Underpass
 - Lighting Urban *
 - Bus Bay
 - Service Lane
- Wildlife Crossing**
- Canopy Bridge (exact location to be validated)
 - Underpass

- Biophysical Environment**
- Watercourse
- Protected**
- National Level**
- Forest Reserve
 - Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- Human Environment**
- Sensitive Sites**
- Farming activities

VINCI **meridiam**

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-12

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

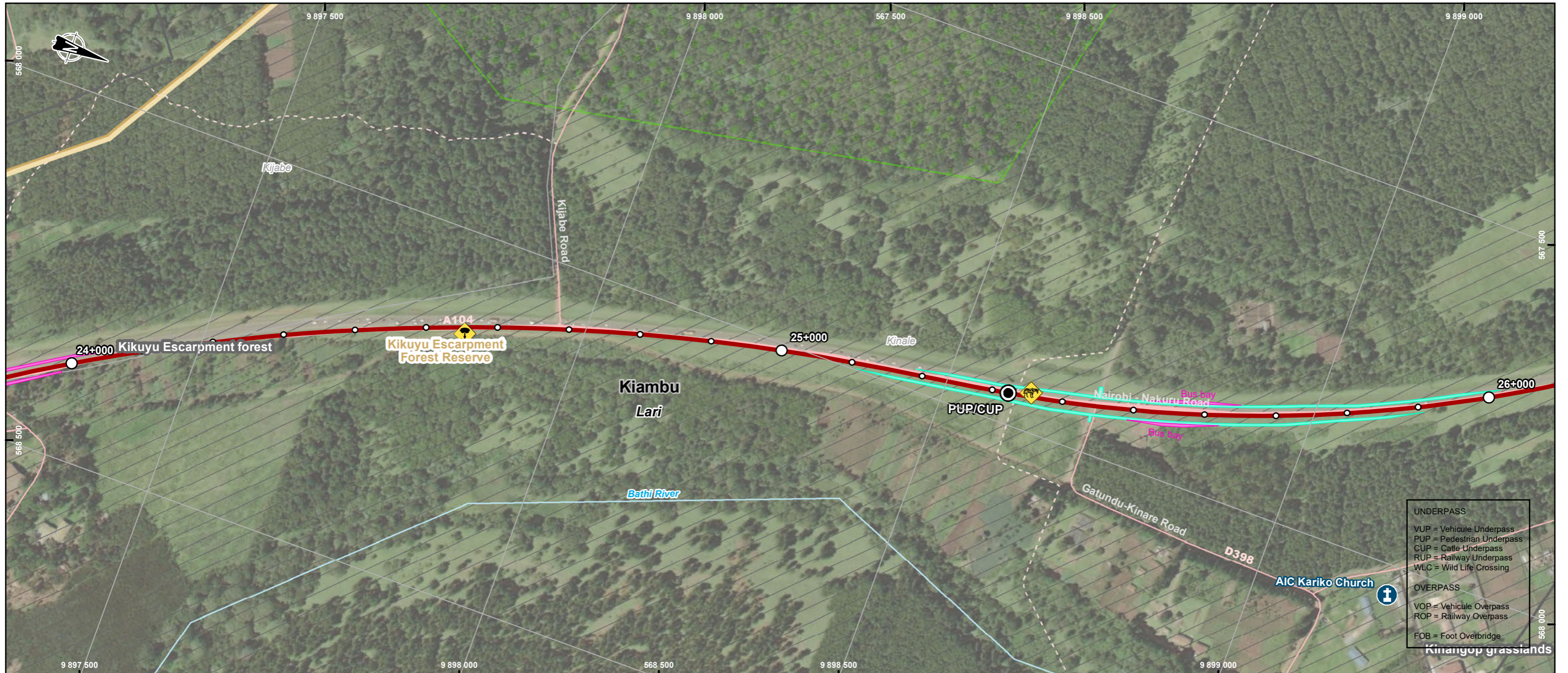
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2022-01-25

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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UNDERPASS	
VJP	= Vehicule Underpass
PUP	= Pedestrian Underpass
CUP	= Cattle Underpass
RUP	= Railway Underpass
WLC	= Wild Life Crossing
OVERPASS	
VOP	= Vehicule Overpass
ROP	= Railway Overpass
FOB	= Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi - Naivasha

- Structural Project Elements**
- Underpass
 - Bus Bay
 - Service Lane
- Wildlife Crossing**
- Canopy Bridge (exact location to be validated)
 - Underpass

- Biophysical Environment**
- Watercourse
- Protected Areas**
- National Level**
- Forest Reserve
 - Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- Human**
- Sensitives Sites**
- Religious Institution
- Landuse (OSM)**
- Forest

VINCI **meridiam**

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited

Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi - Naivasha Sheet 1-13

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

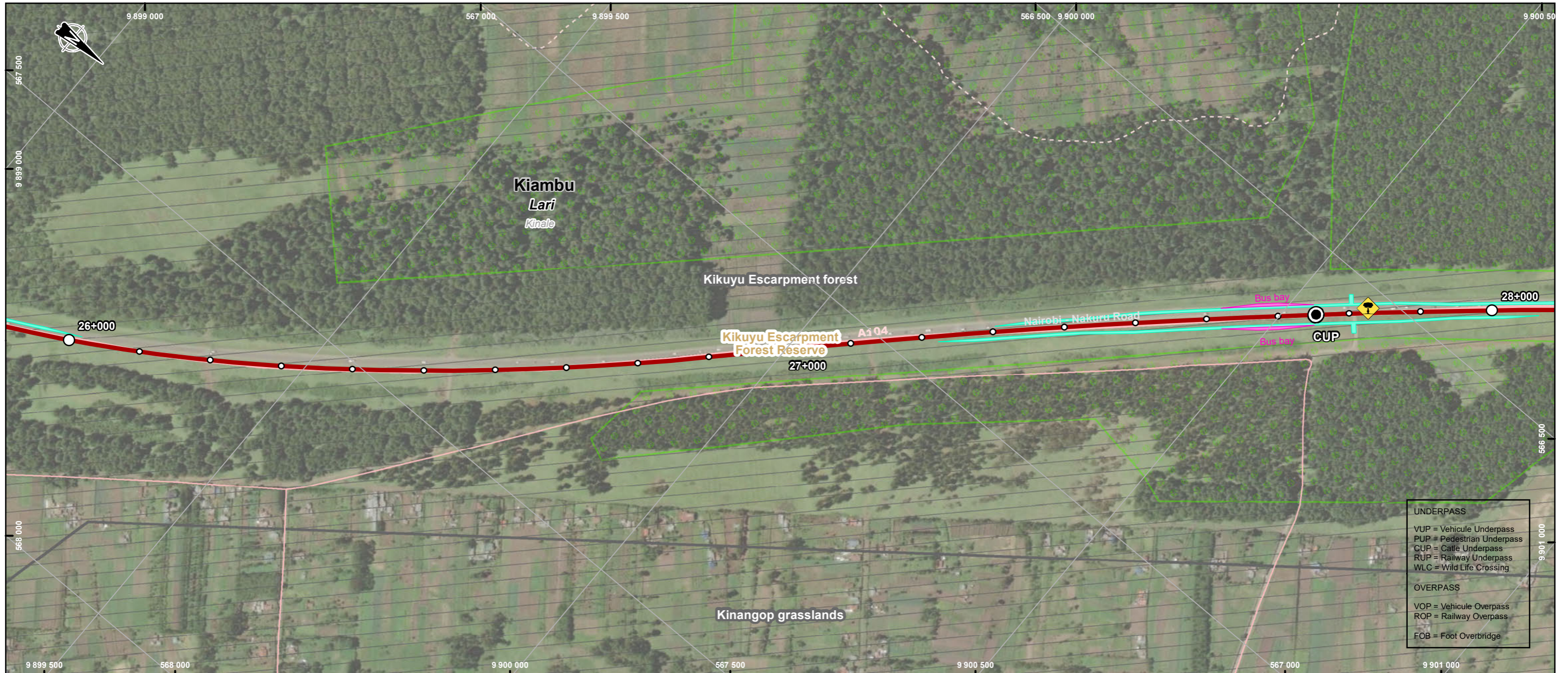
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RUP	= Railway Underpass
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OVERPASS	
VOP	= Vehicule Overpass
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FOB	= Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi - Naivasha

- Structural Project Elements**
- Underpass
 - Bus Bay
 - Service Lane
- Wildlife Crossing**
- Canopy Bridge (exact location to be validated)

- Biophysical Environment**
- Watercourse
- Protected Areas**
- National Level**
- Forest Reserve
 - Important Bird Area (IBA) and Key Biodiversity Area (KBA)

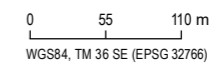
- Human Environment**
- Landuse (OSM)**
- Forest

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INVESTING FOR THE COMMUNITY

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi - Naivasha Sheet 1-14

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



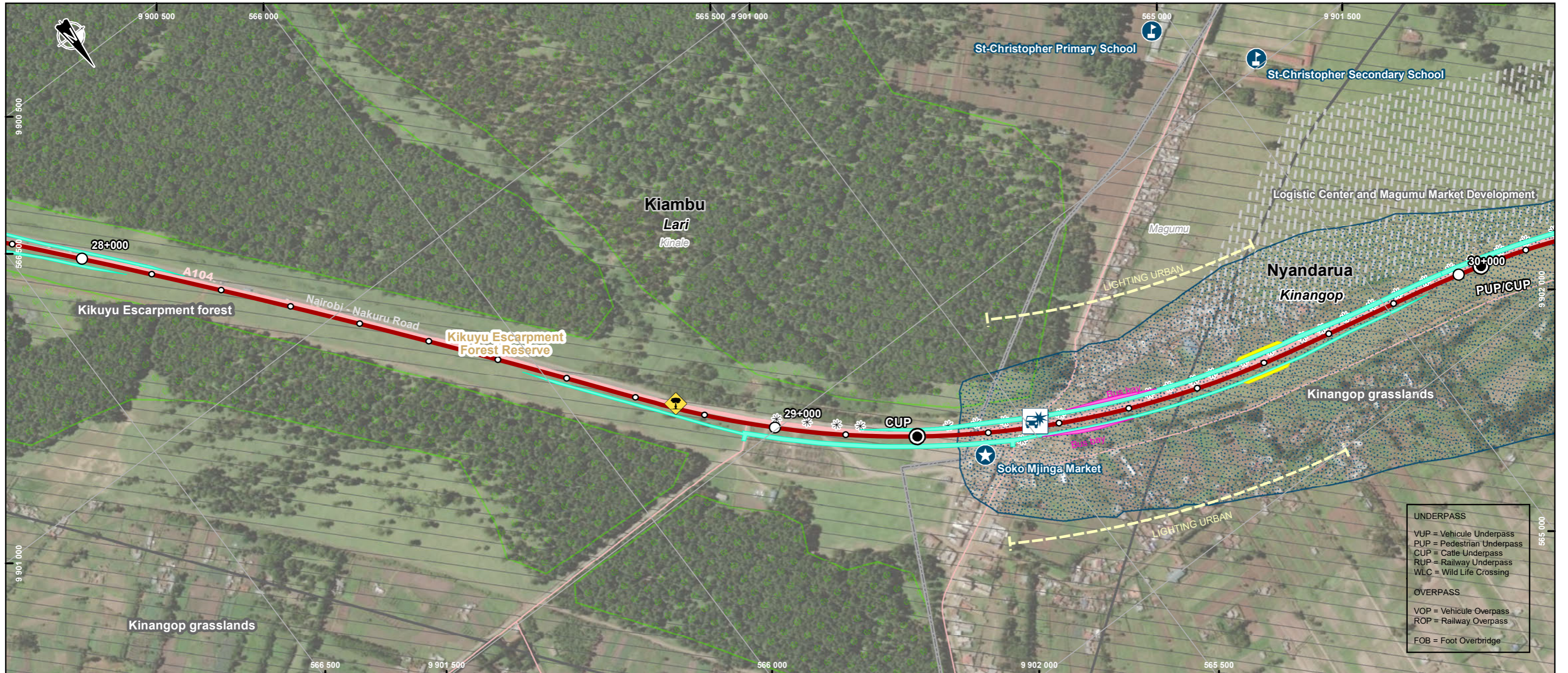
2022-01-25

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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Boundaries and measurements shown on this document must not be used for engineering or land survey delineation. A land register analysis conducted by a land surveyor was not undertaken.



UNDERPASS
VJP = Vehicle Underpass
PUP = Pedestrian Underpass
CUP = Cattle Underpass
RUP = Railway Underpass
WLC = Wild Life Crossing
OVERPASS
VOP = Vehicle Overpass
ROP = Railway Overpass
FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi - Naivasha

Structural Project Elements

- Underpass
- Lighting Urban *
- Bus Bay
- Service Lane
- Truck Bay
- Wildlife Crossing**
- Canopy Bridge (exact location to be validated)

Biophysical Environment

- Watercourse
- Protected**
- National Level**
- Forest Reserve
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Sensitive Sites**
- Accident Spot
- Market and shopping area
- School Institution
- Flooding area
- Future Developments

Utility

- Existing Utilities**
- Lamp Post
- Landuse (OSM)**
- Forest



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi - Naivasha Sheet 1-15

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

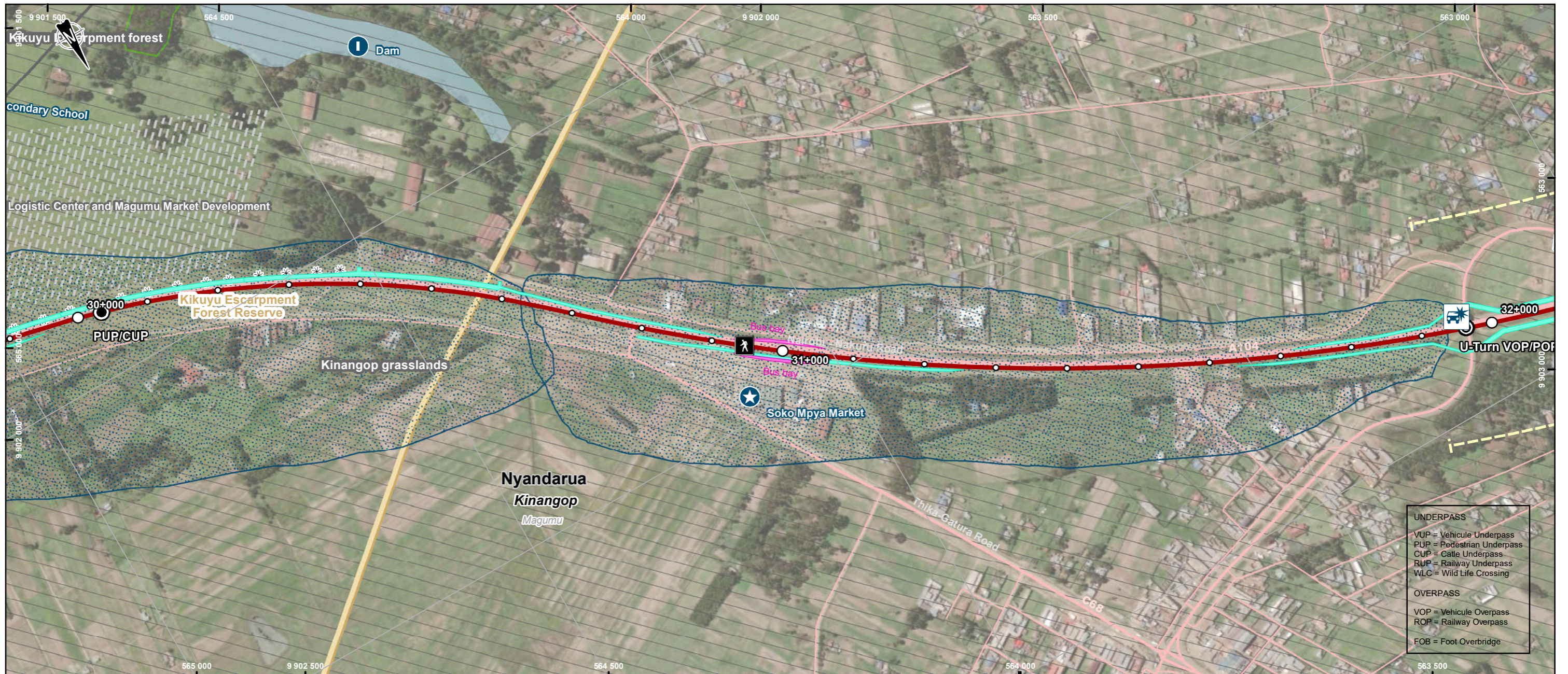
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2022-01-26

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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UNDERPASS
VUP = Vehicule Underpass
PUP = Pedestrian Underpass
CUP = Cattle Underpass
RUP = Railway Underpass
WLC = Wild Life Crossing
OVERPASS
VOP = Vehicule Overpass
ROP = Railway Overpass
FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Secondary
 - Tertiary, Residential or Unclassified

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi - Naivasha

- Structural Project Elements**
- Overpass
 - Underpass
 - Foot Overbridge
 - Lighting Urban *
 - Bus Bay
 - Service Lane

- Biophysical Environment**
- Watercourse
 - Waterbody
- Protected Areas**
- National Level**
- Forest Reserve
 - Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Infrastructure
 - Market and shopping area
 - Flooding area
 - Future Developments

- Utility**
- Existing Utilities**
- Lamp Post
- Landuse (OSM)**
- Forest

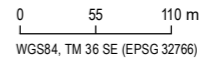
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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited

Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi - Naivasha Sheet 1-16

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

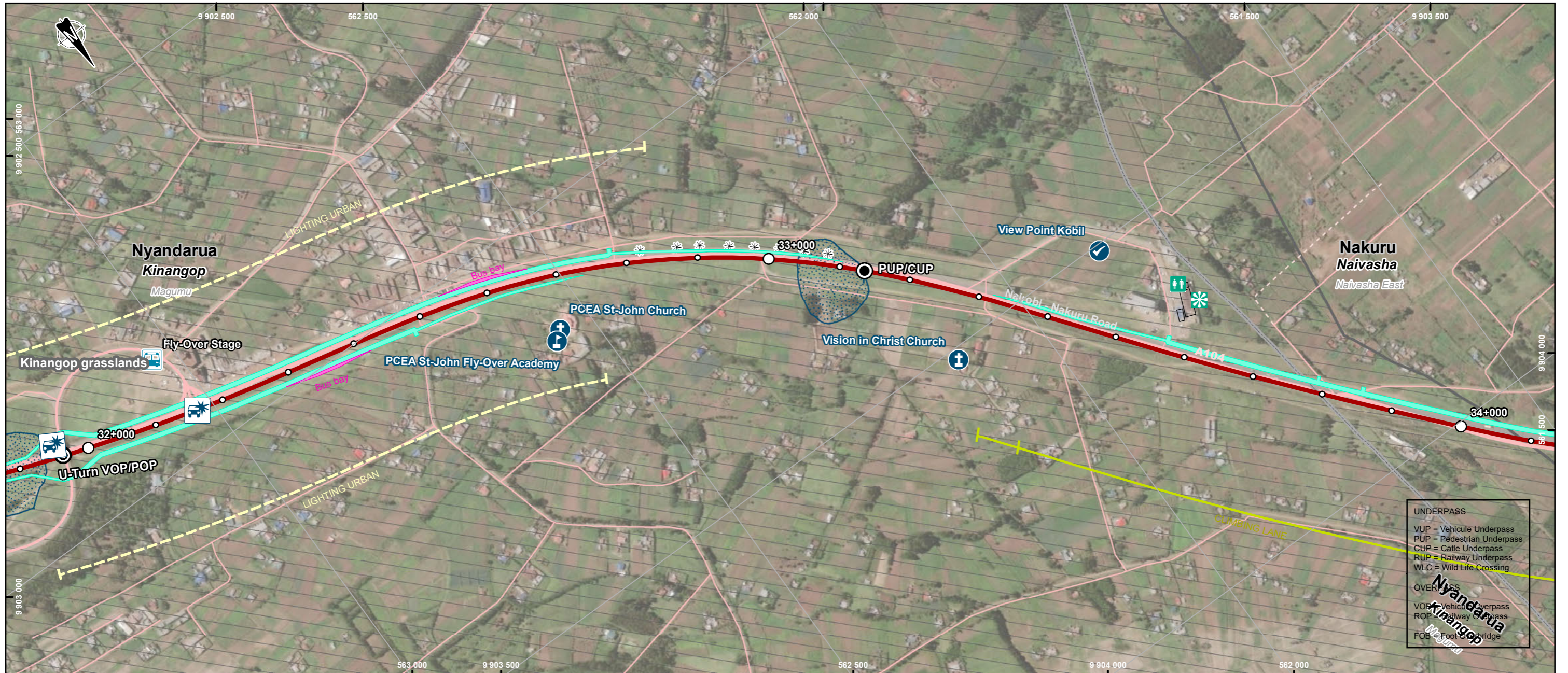


2022-01-26

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Overpass
 - Underpass
 - Lighting Urban *
 - Climbing Lane *
 - Bus Bay
 - Service Lane

- Biophysical Environment**
- Watercourse
- Protected Areas**
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Religious Institution
 - School Institution
 - View point
 - Flooding area
- Point of Interest**
- Archaeological, Attraction, Monument or Viewpoint
 - Toilet

- Utility**
- Existing Utilities**
- Lamp Post
 - Buildings

- UNDERPASS**
- VUP = Vehicle Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOB = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Footbridge

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 1 - Rironi – Naivasha
Sheet 1-17

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

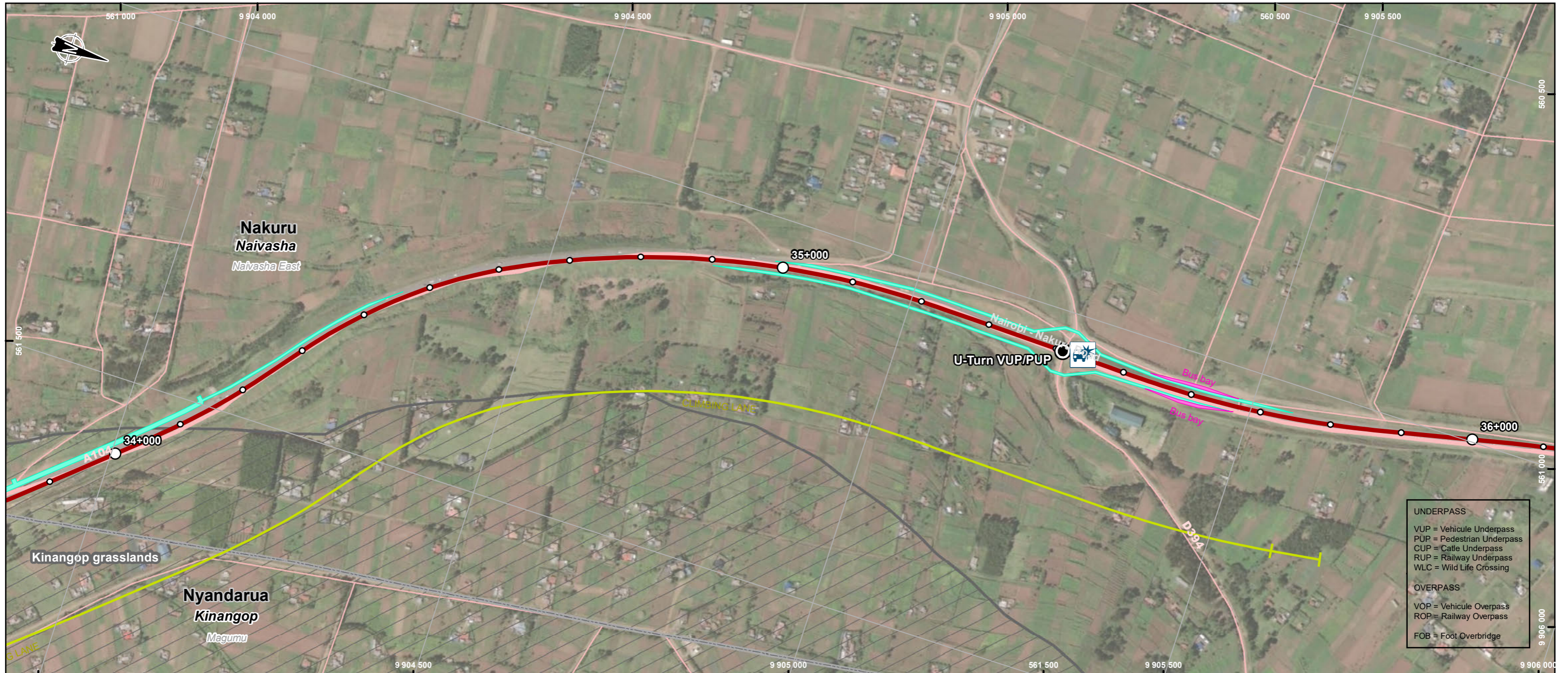
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WGS84, TM 36 SE (EPSG 32766)

2022-01-25

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 1 - Rironi – Naivasha

Structural Project Elements

- Underpass
- Climbing Lane *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Sensitive Sites**
- Accident Spot

Protected

- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- UNDERPASS**
- VUP = Vehicle Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-18

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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Preparation: C. Abdel-Malek
Drawing: A. Monnard
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Underpass
 - Fencing *
 - Climbing Lane *
 - Service Lane

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Infrastructure
 - Market and shopping area

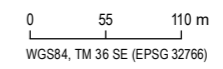
- UNDERPASS**
- VUP = Vehicule Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-19

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



2022-01-25

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
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UNDERPASS
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 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi - Naivasha

- Structural Project Elements**
- Climbing Lane *
 - Service Lane

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitives Sites**
- Accident Spot
 - Religious Institution

**Segment 1 - Dualling of A8 Highway
 Section 1 - Rironi - Naivasha
 Sheet 1-20**

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Overpass
 - Lighting Urban *
 - Climbing Lane *
 - Bus Bay
 - Service Lane
 - Truck Bay

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- ★ Market and shopping area
 - † Religious Institution
- Existing Utilities**
- Power Transmission Line

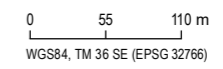
- UNDERPASSING URBAN**
- VUP = Vehicle Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-21

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

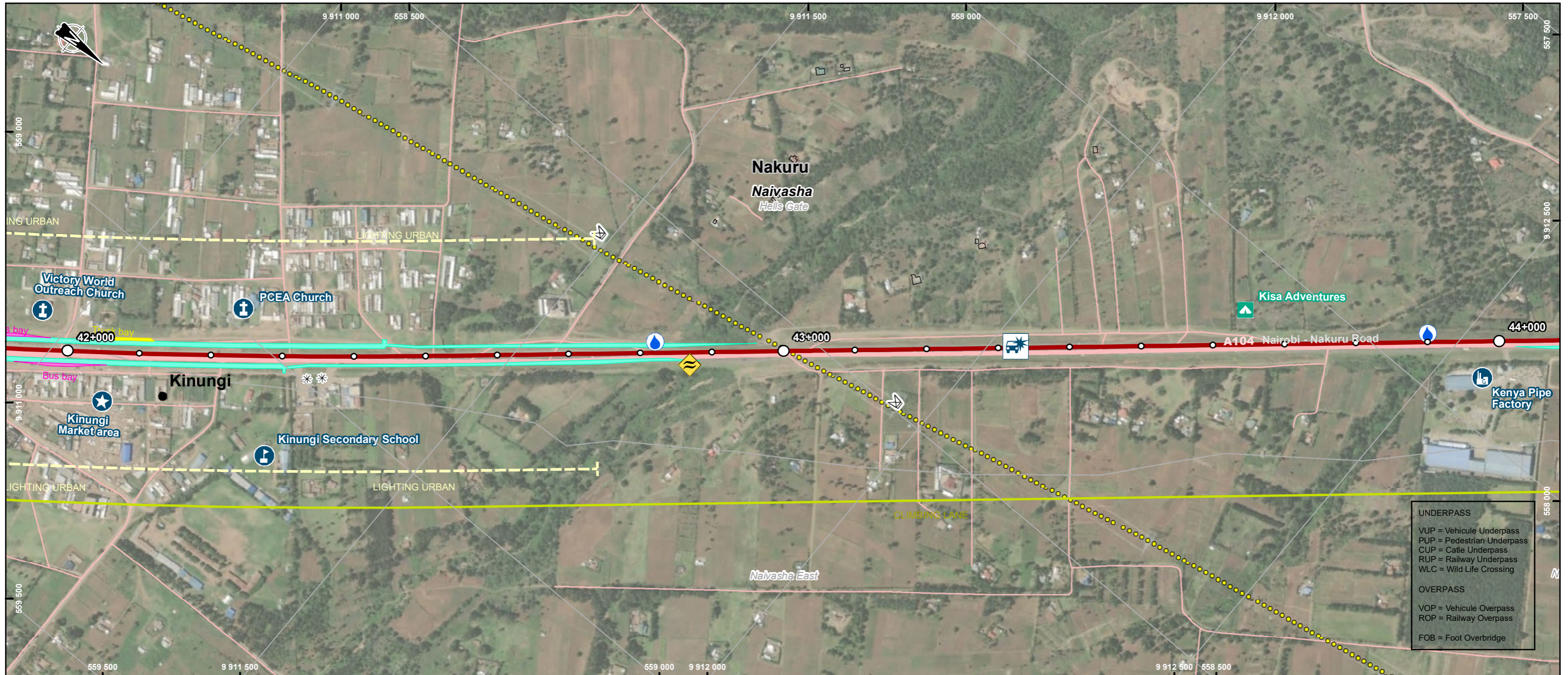


2022-01-25

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 1 - Rironi – Naivasha

Structural Project

- Run-off Water Treatment Equipment
- Lighting Urban *
- Climbing Lane *
- Bus Bay
- Service Lane
- Truck Bay
- Wildlife Crossing**
- Waterway Crossing

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Accident Spot
- Industry
- Market and shopping area
- Religious Institution
- School Institution

Point of Interest

- Camp Site

Utility

Existing Utilities

- Lamp Post
- Pylon

Existing Utilities

- Power Transmission Line
- Buildings

- UNDERPASS**
- VJP = Vehicule Underpass
 - PJP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-22

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

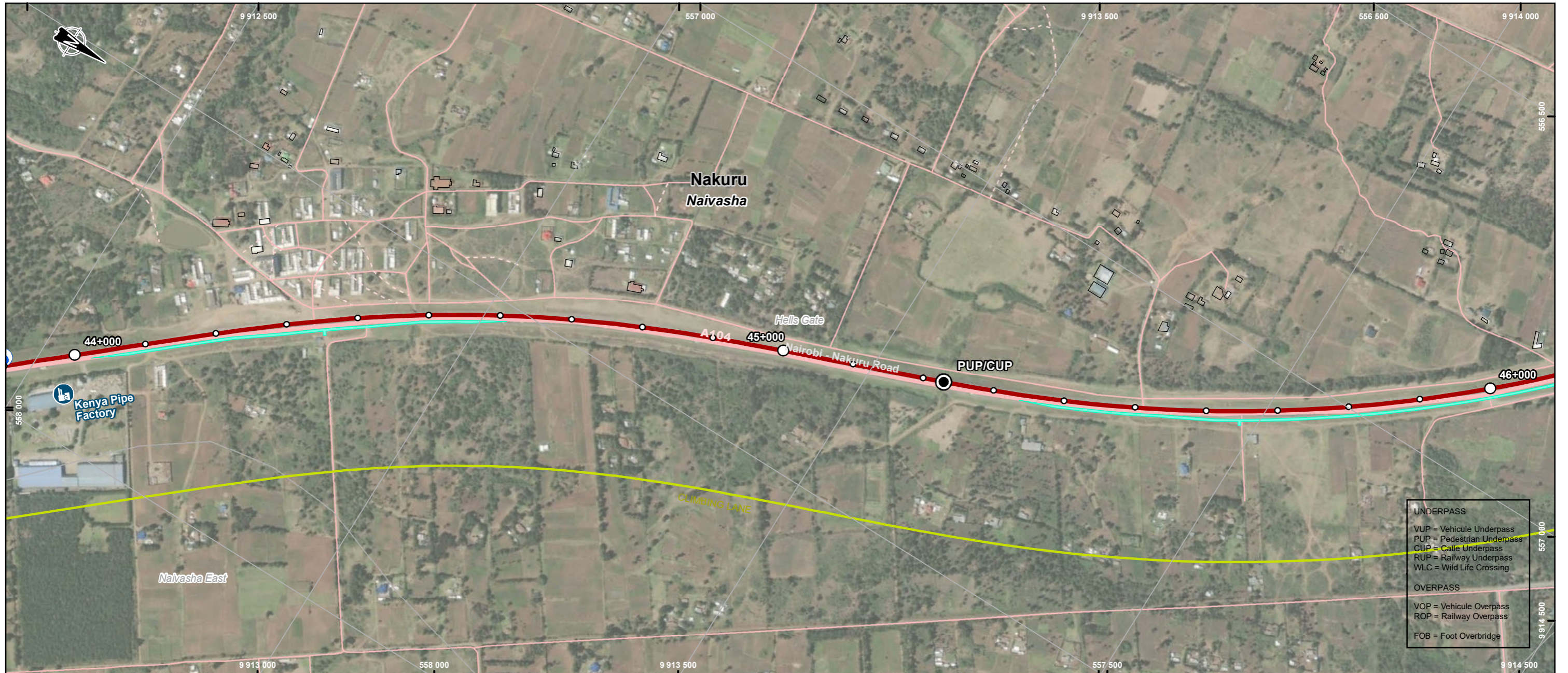
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WGS84, TM 36 SE (EPSG 32766)

2022-01-25

Preparation : C. Abdel-Malek
Drawing : A. Monnard
Validation : G. Pothier
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UNDERPASS	
VUP = Vehicule Underpass	
PUP = Pedestrian Underpass	
CUP = Cattle Underpass	
RUP = Railway Underpass	
WLC = Wild Life Crossing	
OVERPASS	
VOP = Vehicule Overpass	
ROP = Railway Overpass	
FOB = Foot Overbridge	

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 1 - Rironi - Naivasha

Structural Project Elements

- Underpass
- Run-off Water Treatment Equipment
- Climbing Lane *
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitive Sites**
- Industry
 - Buildings



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi - Naivasha Sheet 1-23

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

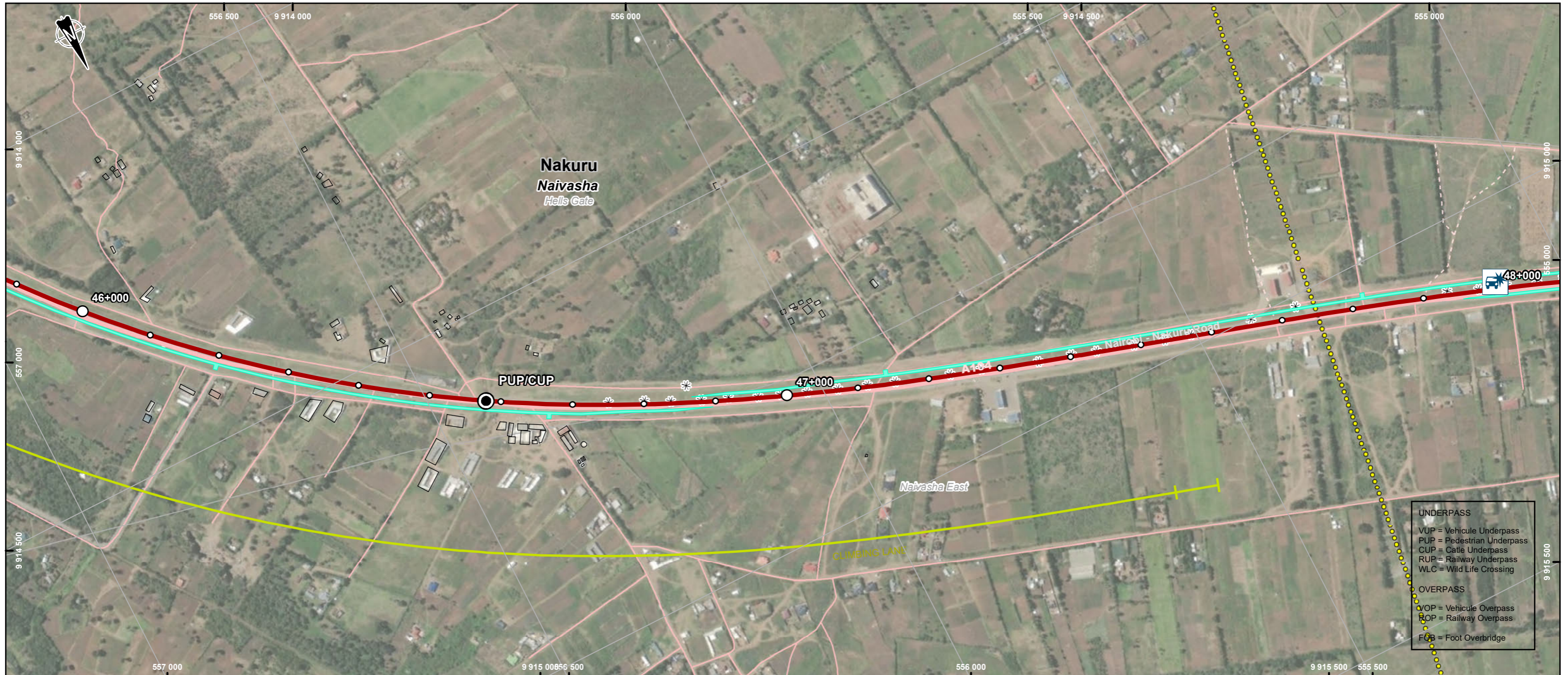
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WGS84, TM 36 SE (EPSG 32766)

2022-01-25

Preparation : C. Abdel-Malek
Drawing : A. Monnard
Validation : G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Underpass
 - Climbing Lane *
 - Service Lane

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- Accident Spot

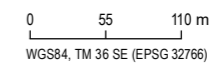
- Utility**
- Existing Utilities**
- Lamp Post
 - Power Transmission Line
 - Buildings

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-24

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

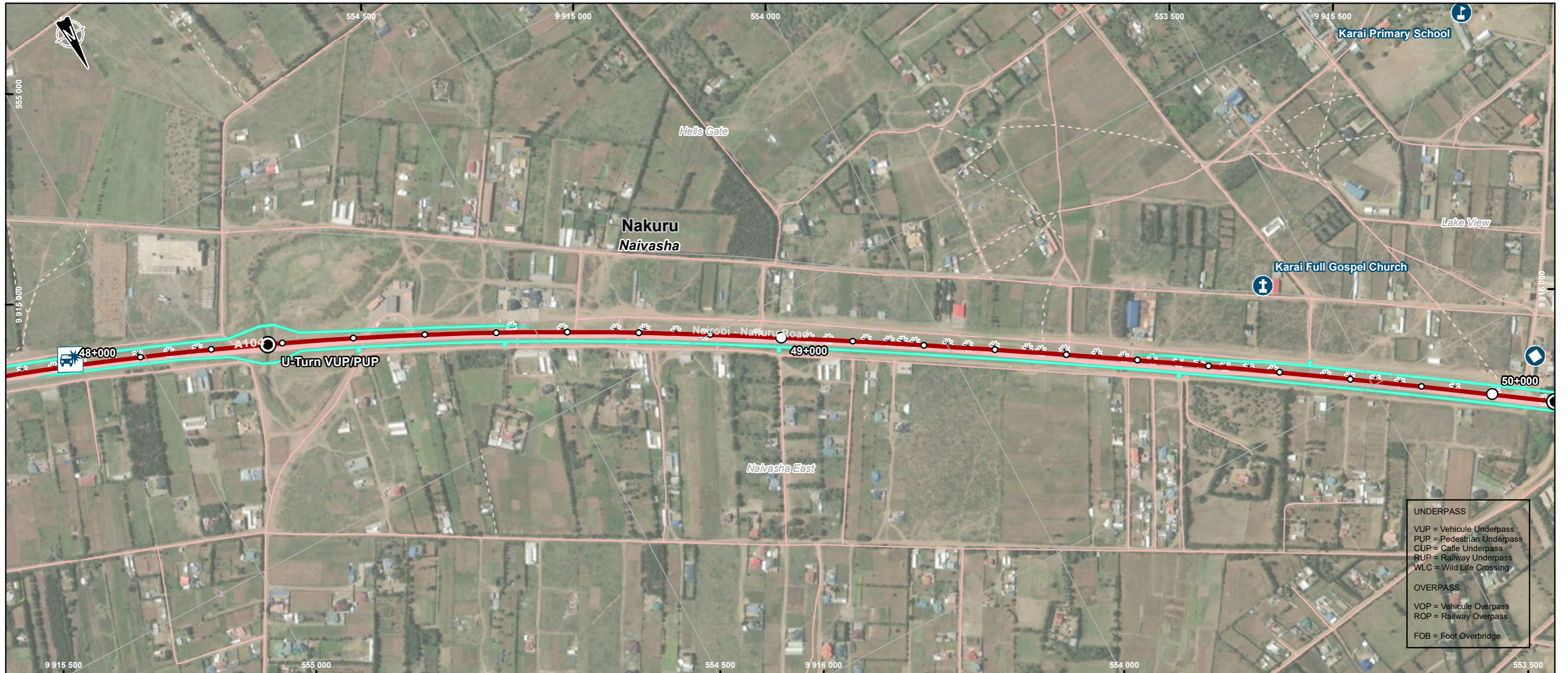


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Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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UNDERPASS
 VUP = Vehicule Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Underpass
 - Service Lane

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitives Sites**
- Accident Spot
 - Religious Institution
 - School Institution
 - Stop Over

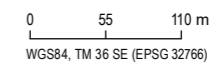
- Utility**
- Existing Utilities**
- Lamp Post

VINCI **meridiam**

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-25

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Underpass
 - Foot Overbridge
 - Lighting Urban *
 - Service Lane

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Health Facilities
 - Market and shopping area
 - Religious Institution
 - Stop Over
- Point of Interest**
- Park, Picnic Site or Playground

- Utility**
- Existing Utilities**
- Lamp Post

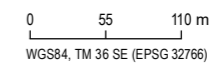
- UNDERPASS**
- VUP = Vehicle Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 1-26

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

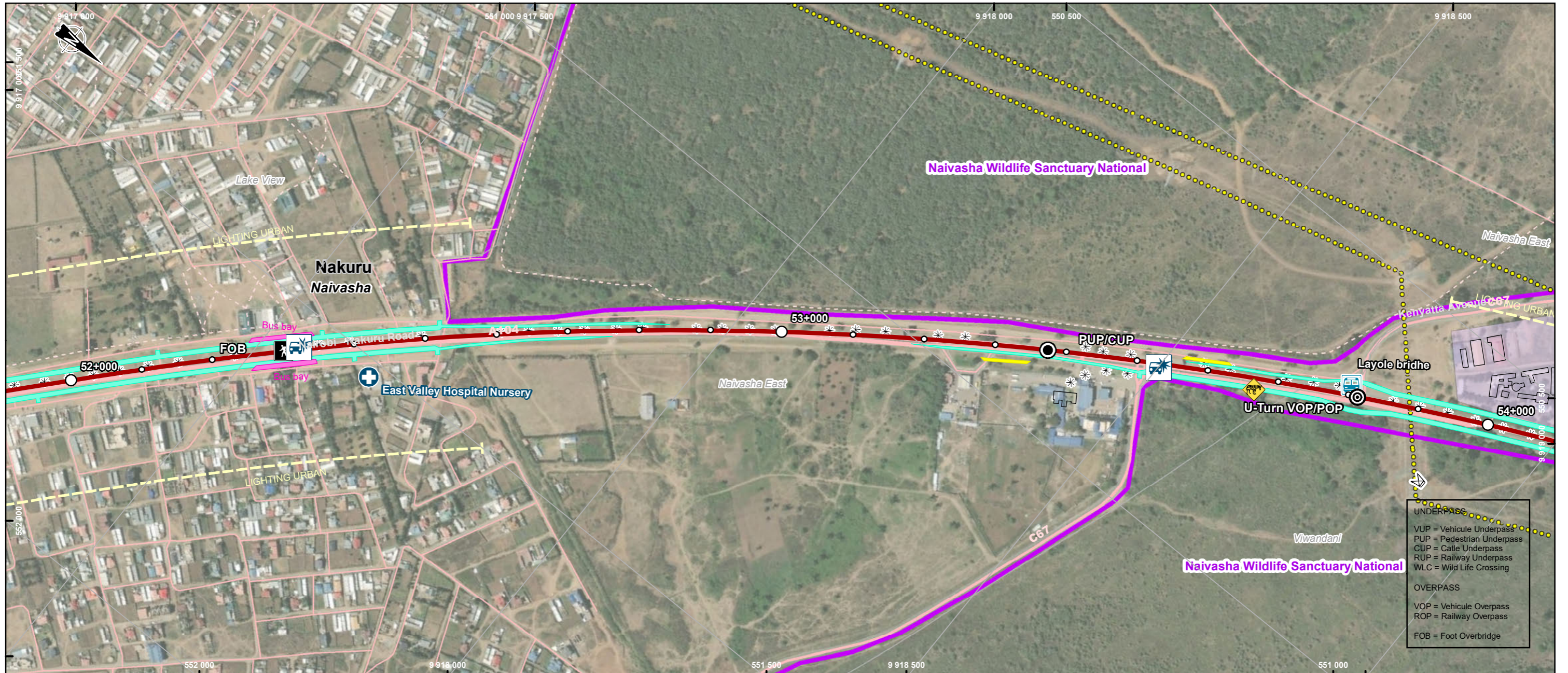


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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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UNDERPASS
 VUP = Vehicule Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

 OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Secondary
- Tertiary, Residential or Unclassified
- Footway, Path or Track

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 1 - Rironi - Naivasha

Structural Project Elements

- Overpass
- Underpass
- Foot Overbridge
- Lighting Urban *
- Bus Bay
- Service Lane
- Truck Bay
- Wildlife Crossing**
- Underpass

Biophysical Environment

- Watercourse
- Protected Areas**
- National Sanctuary

Human Environment

- Sensitive Sites**
- Accident Spot
 - Health Facilities

Utility

- Existing Utilities**
- Lamp Post
 - Pylon
- Existing Utilities**
- Power Transmission Line
 - Buildings
- Landuse (OSM)**
- Residential

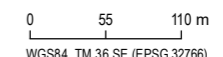
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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi - Naivasha Sheet 1-27

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

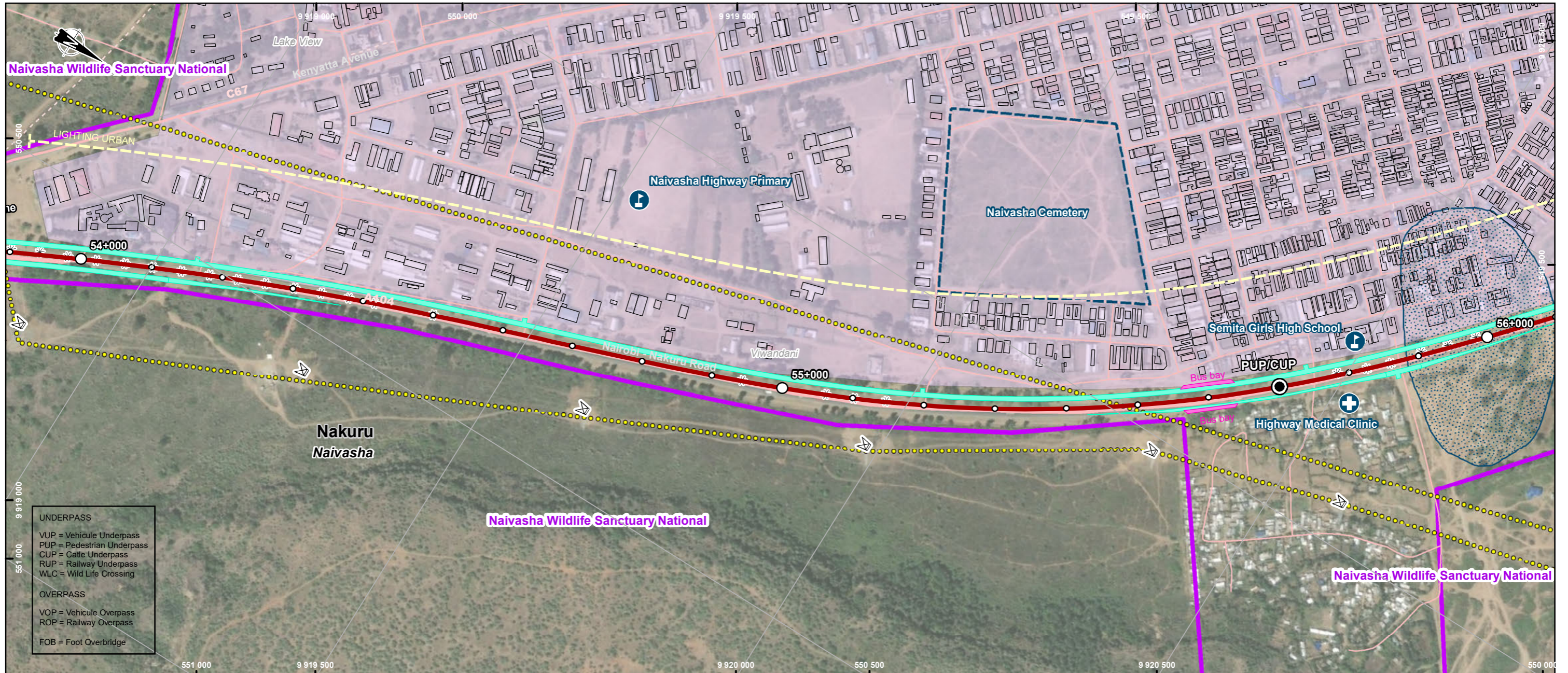


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Preparation : C. Abdel-Malek
 Drawing : A. Monnard
 Validation : G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Underpass
 - Lighting Urban *
 - Bus Bay
 - Service Lane

- Biophysical Environment**
- Watercourse
- Protected Areas**
- National Sanctuary

- Human Environment**
- Sensitive Sites**
- Health Facilities
 - School Institution
 - Flooding area
 - Sensitive Site

- Utility**
- Existing Utilities**
- Lamp Post
 - Pylon
- Existing Utilities**
- Power Transmission Line
 - Buildings
- Landuse (OSM)**
- Residential

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 1 - Rironi – Naivasha
Sheet 1-28

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

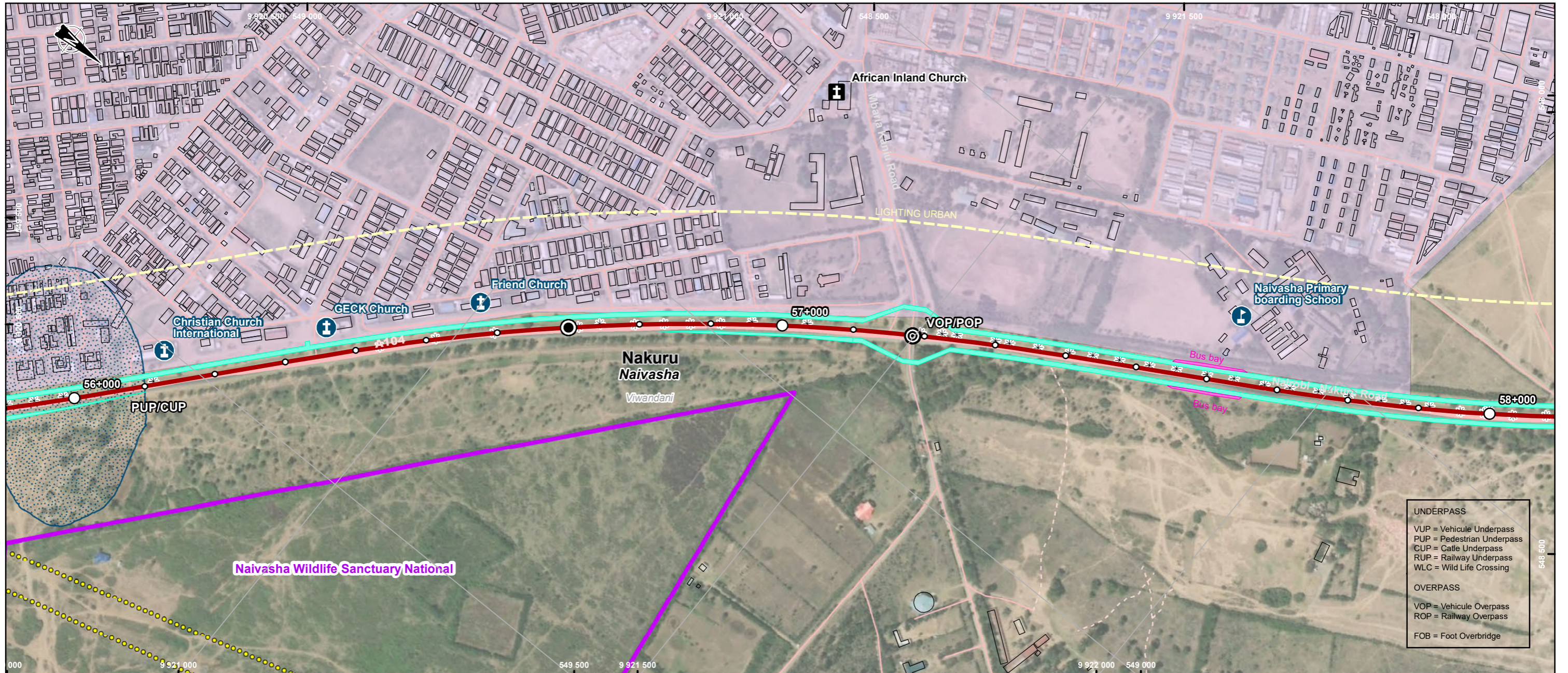
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2022-01-26

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha

- Structural Project Elements**
- Overpass
 - Underpass
 - Lighting Urban *
 - Bus Bay
 - Service Lane

- Biophysical Environment**
- Watercourse
- Protected**
- National Sanctuary

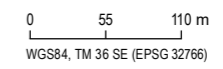
- Human Environment**
- Sensitive Sites**
- Religious Institution
 - School Institution
- Worship Centers**
- Christian

- Utility**
- Existing Utilities**
- Lamp Post
- Existing Utilities**
- Power Transmission Line
- Buildings**
- Buildings
- Landuse (OSM)**
- Residential

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 1 - Rironi – Naivasha
Sheet 1-29

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

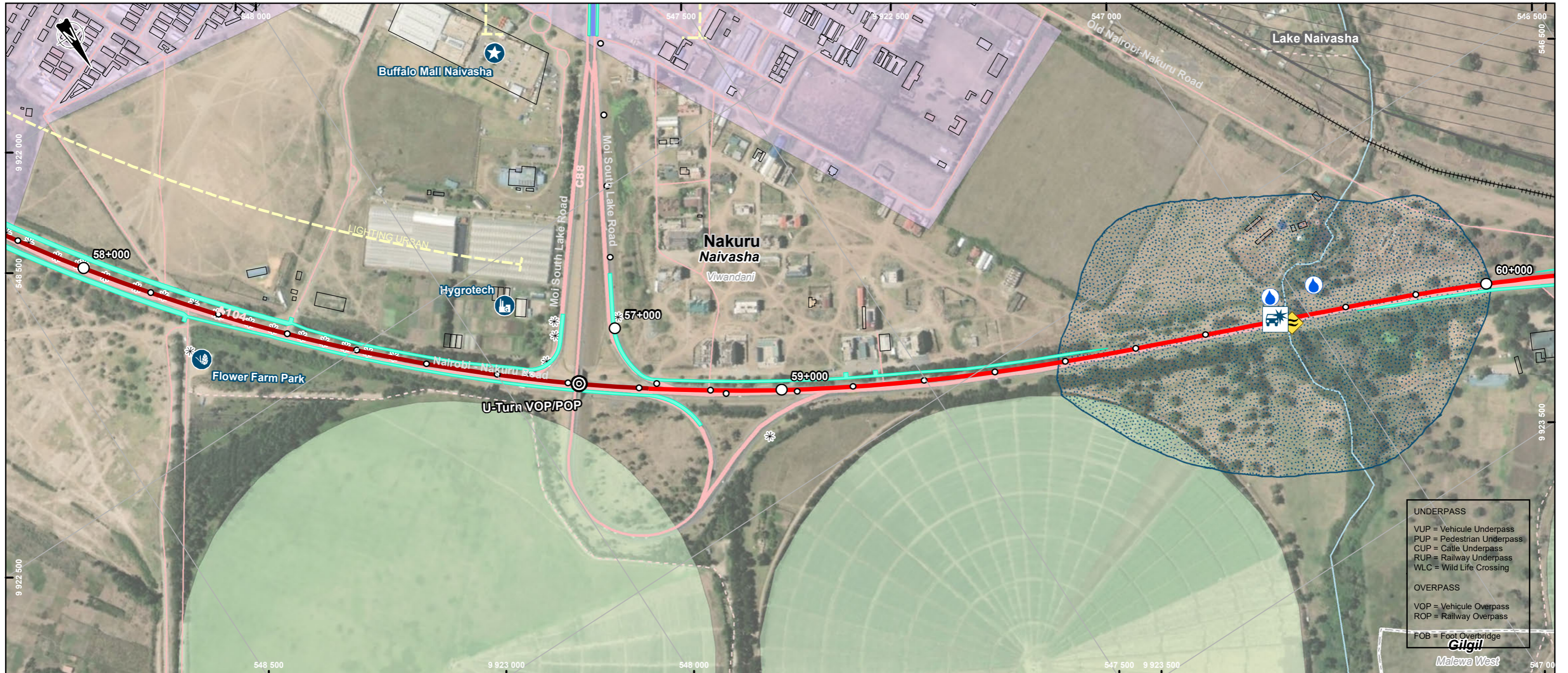


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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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UNDERPASS
 VUP = Vehicule Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Secondary
- Tertiary, Residential or Unclassified
- Footway, Path or Track

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
 - 1 - Rironi – Naivasha
 - 2 - Naivasha – Elementaita Road
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
 - 6 - Mai Mahiu - Naivasha

Structural Project Elements

- Overpass
- Run-off Water Treatment Equipment
- Lighting Urban *
- Service Lane
- Service Lane
- Wildlife Crossing**
 - Waterway Crossing

Biophysical Environment

- Watercourse
- Protected**
 - Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Sensitive Sites**
 - Accident Spot
 - Farming activities
 - Industry
 - Market and shopping area
 - Flooding area

Utility

- Existing Utilities**
 - Lamp Post
 - Buildings
- Landuse (OSM)**
 - Farmland
 - Residential

* Illustrated further from the road for better legibility



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 1 - Rironi – Naivasha Sheet 2-1

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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UNDERPASS
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OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Underpass
- Run-off Water Treatment Equipment
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse
- Protected Areas**
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Flooding area
- Buildings
- Landuse (OSM)**
- Farmland



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-2

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

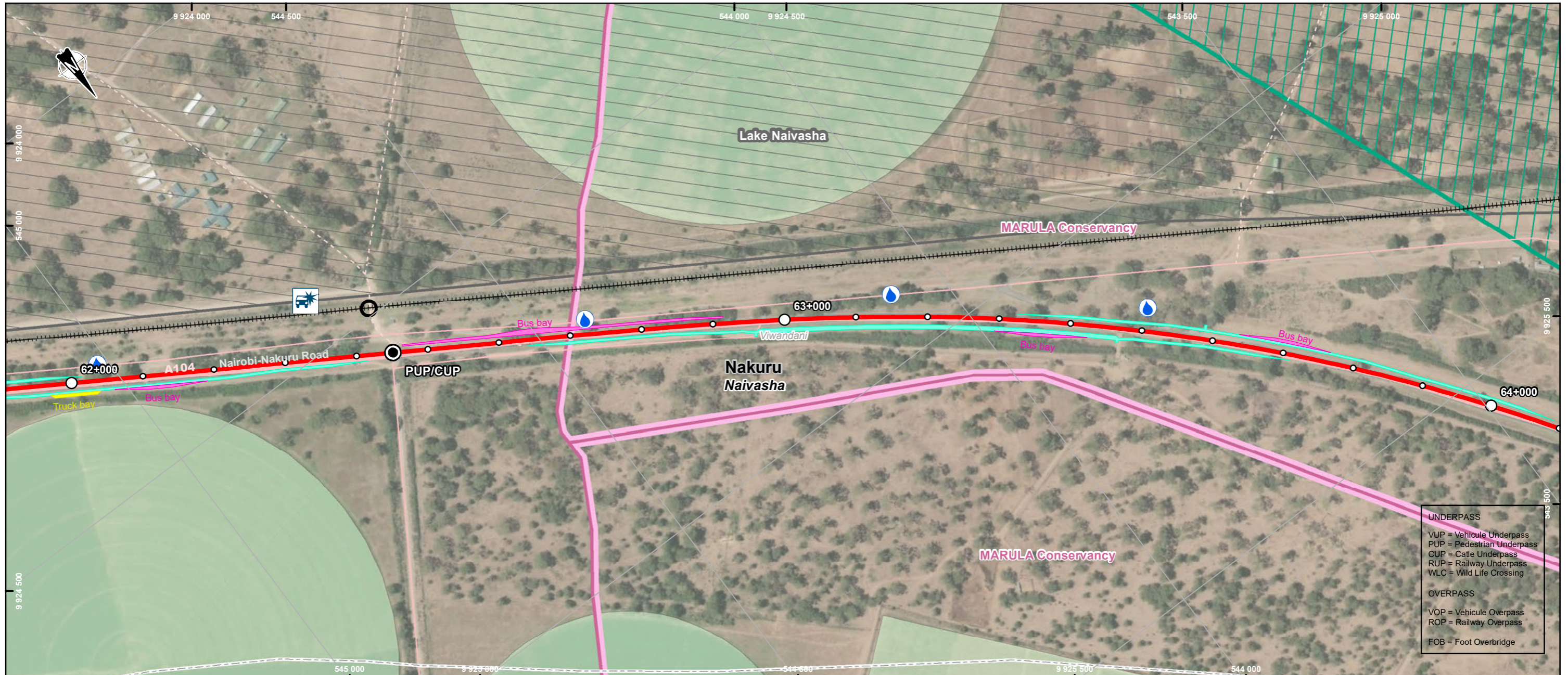
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Preparation : C. Abdel-Malek
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UNDERPASS
 VUP = Vehicle Underpass
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 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Underpass
- Run-off Water Treatment Equipment
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse
- Protected Areas**
- International Level**
- Ramsar Site, Wetland of International Importance
- Private Level**
- Private Conservancy/Mixed-use Estate
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Sensitive Sites**
- Accident Spot
- Landuse (OSM)**
- Farmland



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

**Segment 1 - Dualling of A8 Highway
 Section 2 - Naivasha – Elementaita Road
 Sheet 2-3**

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

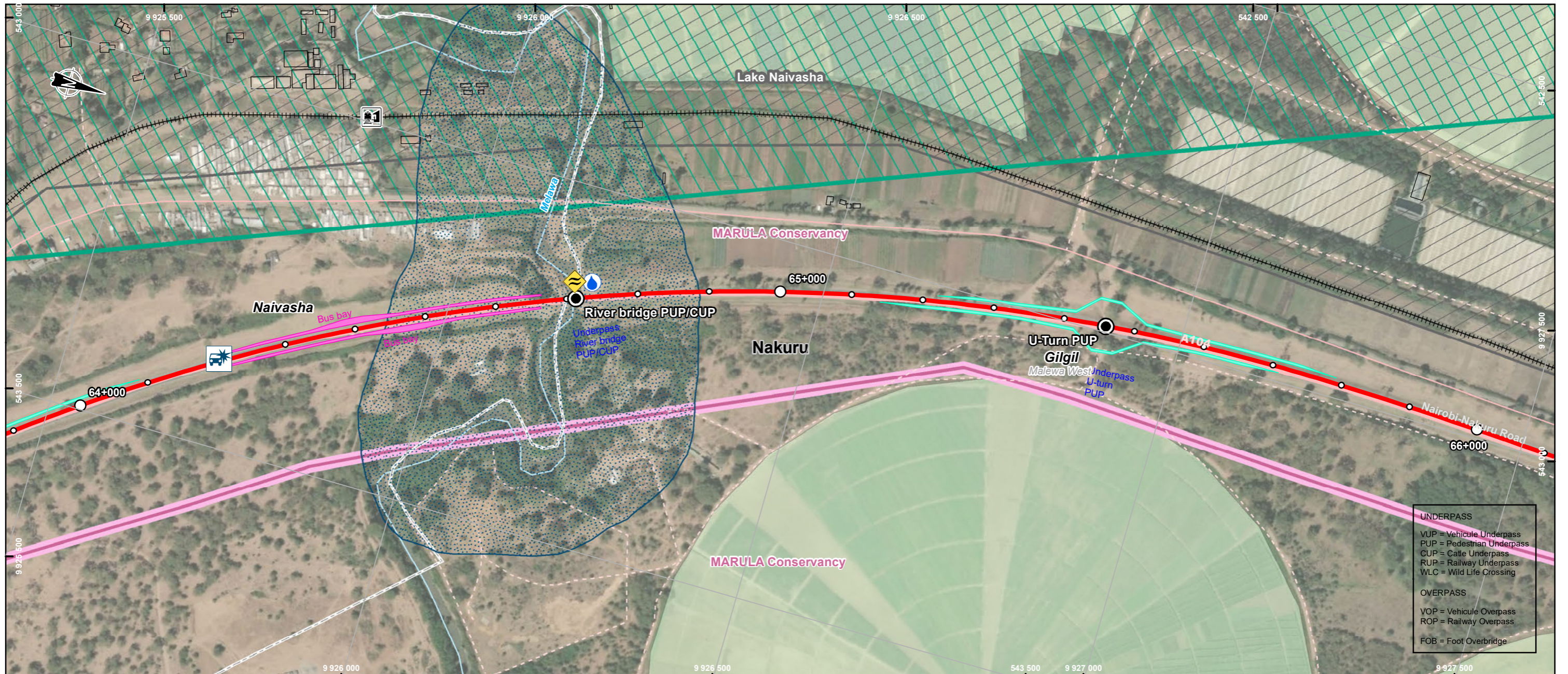
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 Drawing: A. Monnard
 Validation: G. Pothier
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UNDERPASS
 VUP = Vehicle Underpass
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 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- railway
 - Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

- Structural Project Elements**
- Underpass
 - Run-off Water Treatment Equipment
 - Bus Bay
 - Service Lane
- Wildlife Crossing**
- Waterway Crossing

- Biophysical Environment**
- Watercourse
- Protected Areas**
- Ramsar Site, Wetland of International Importance
- Private Level**
- Private Conservancy/Mixed-use Estate
 - Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Flooding area
 - Buildings
- Landuse (OSM)**
- Farmland

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-4

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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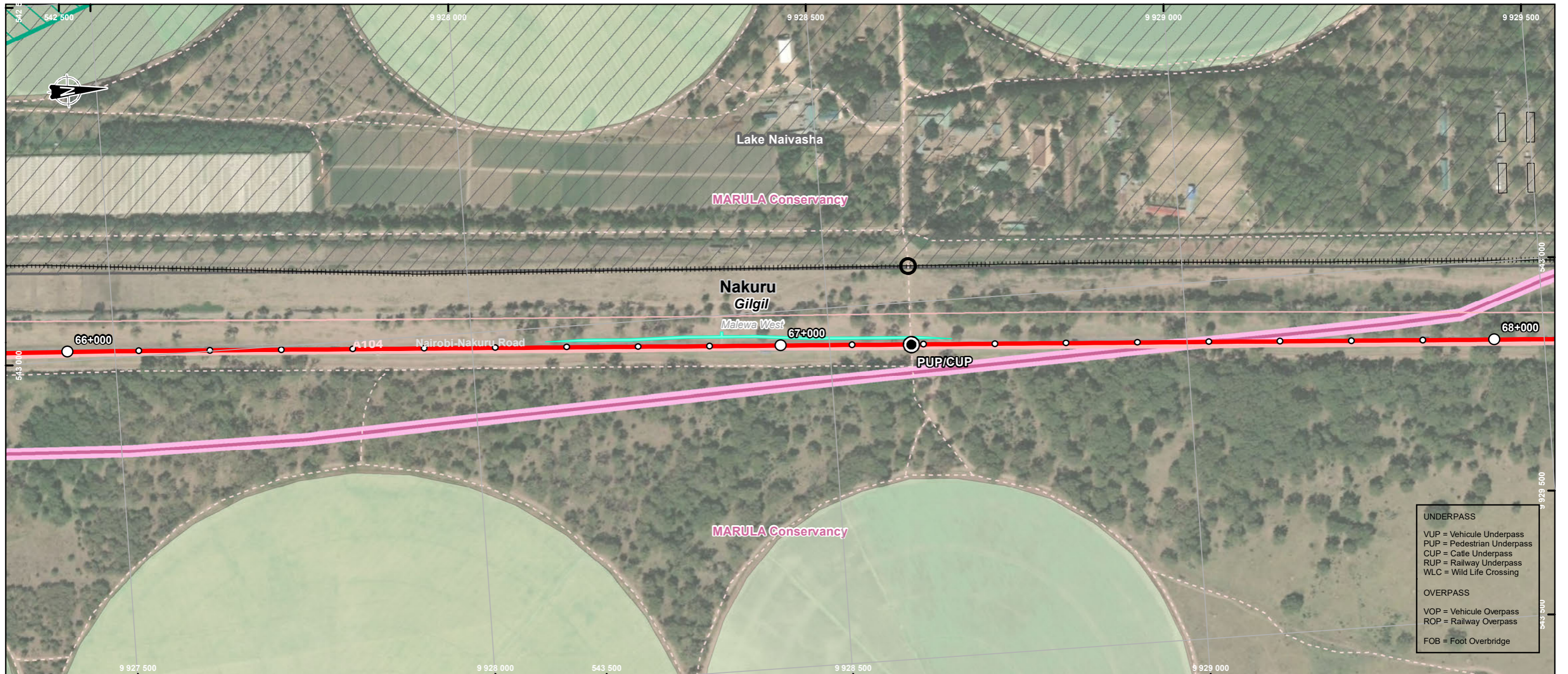
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 Drawing: A. Monnard
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CUP = Cattle Underpass
RUP = Railway Underpass
WLC = Wild Life Crossing
OVERPASS
VOP = Vehicule Overpass
ROP = Railway Overpass
FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Underpass
- Service Lane

Biophysical Environment

- Watercourse
- Protected Areas**
- International Level**
- Ramsar Site, Wetland of International Importance
- Private Level**
- Private Conservancy/Mixed-use Estate
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Buildings
- Landuse (OSM)**
- Farmland

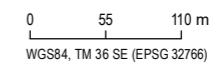
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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-5

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

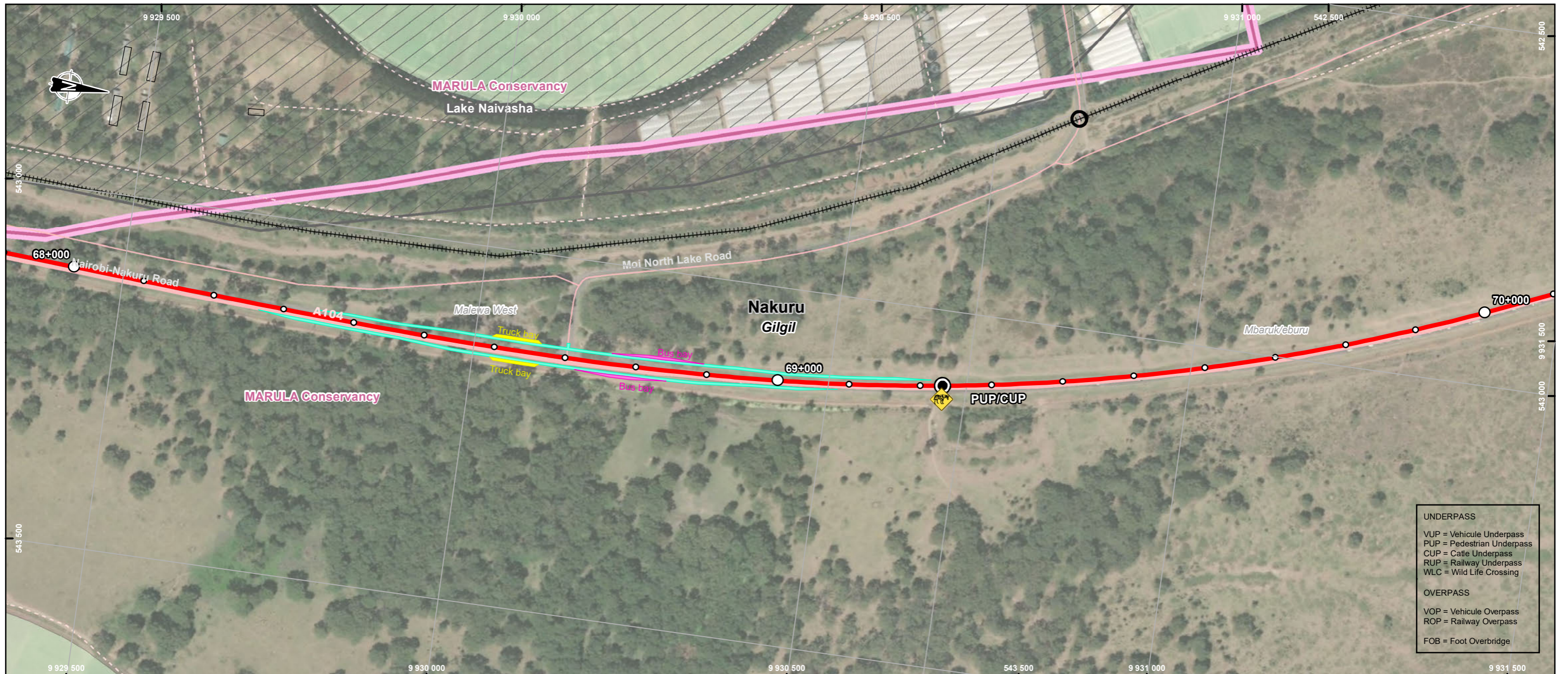


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Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Underpass
- Bus Bay
- Service Lane
- Truck Bay
- Wildlife Crossing**
- Underpass

Biophysical Environment

- Watercourse
- Protected Areas**
- Private Level**
- Private Conservancy/Mixed-use Estate
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Buildings
- Landuse (OSM)**
- Farmland

* Illustrated further from the road for better legibility



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-6

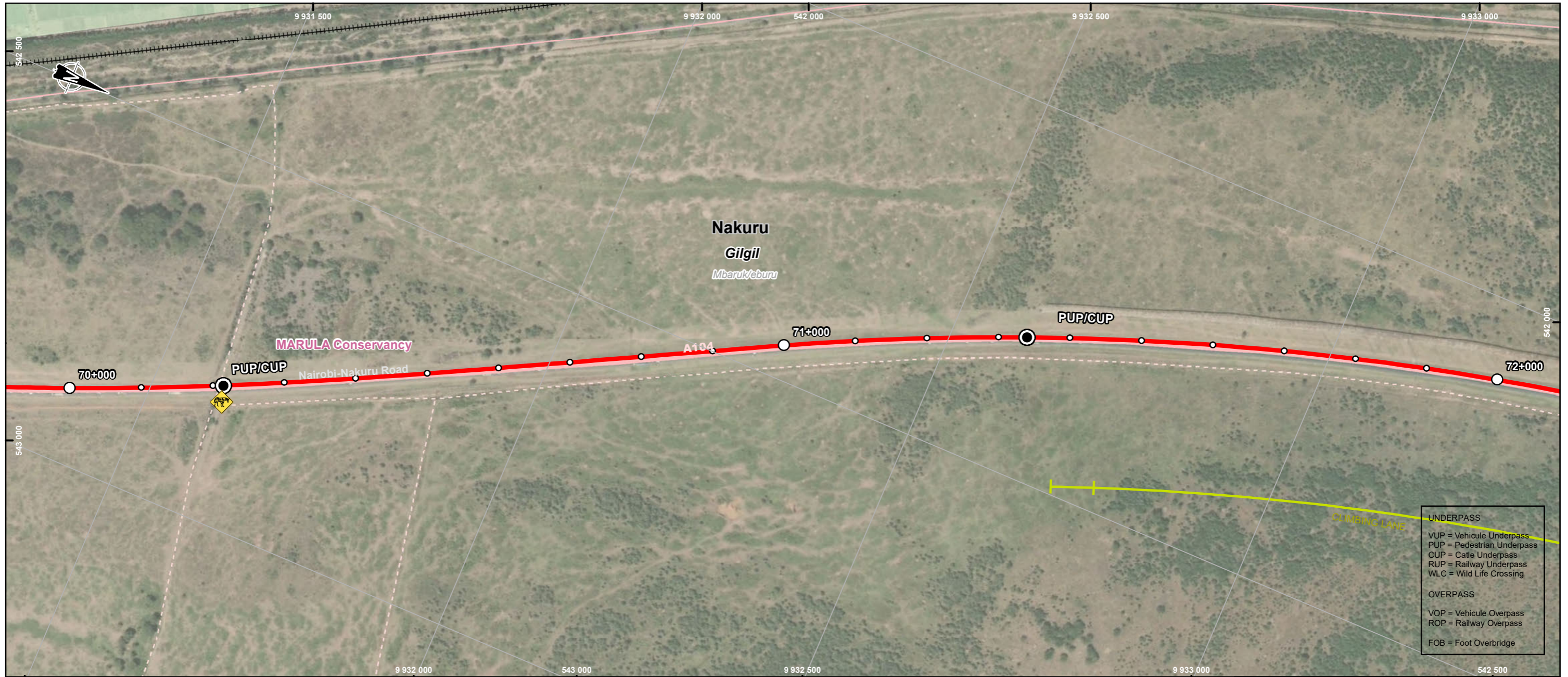
Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

0 55 110 m
 WGS84, TM 36 SE (EPSG 32766)

2022-01-25

Preparation : C. Abdel-Malek
 Drawing : A. Monnard
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 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Underpass
- Climbing Lane *

Wildlife Crossing

- Underpass

Biophysical Environment

- Watercourse

Protected Areas

Private Level

- Private Conservancy/Mixed-use Estate

Human Environment

Landuse (OSM)

- Farmland

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INVESTING FOR THE COMMUNITY

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-7

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

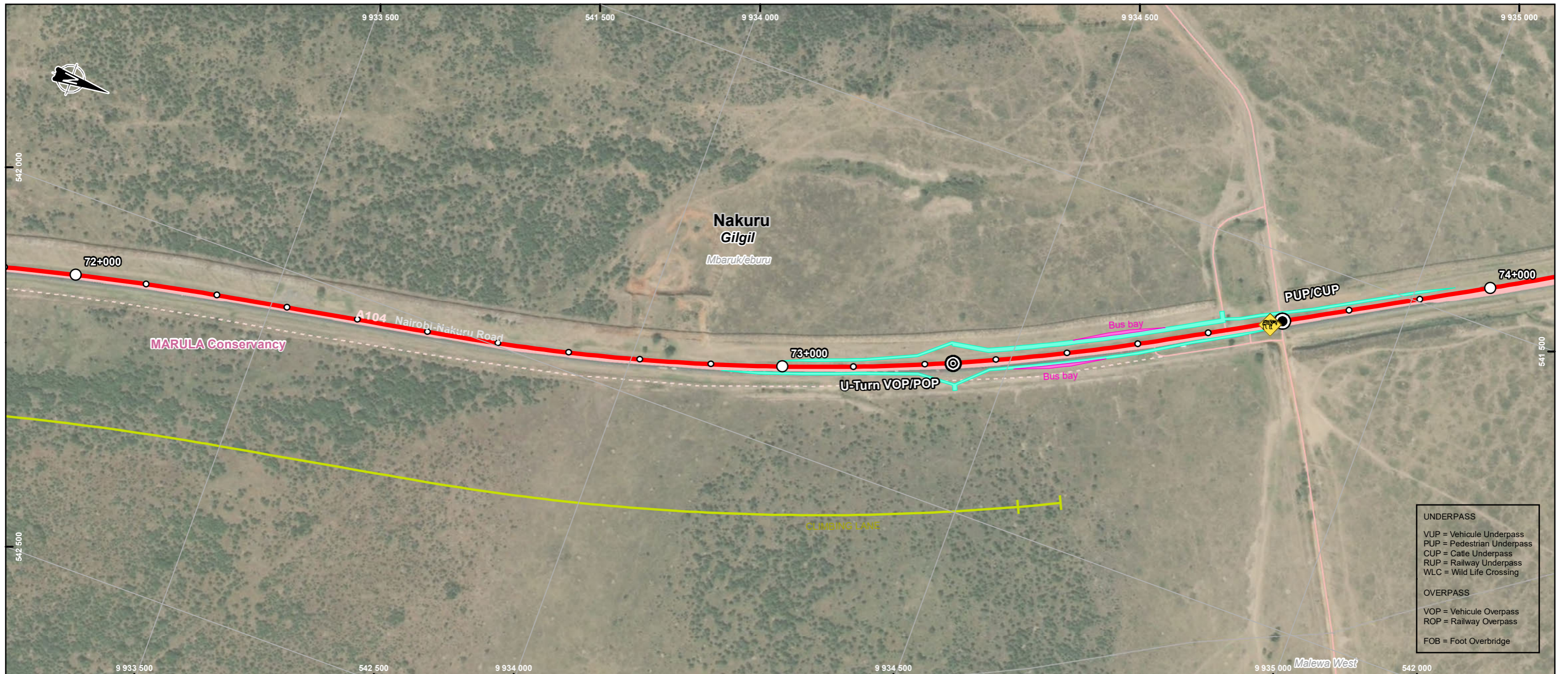
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 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

- Structural Project Elements**
- Overpass
 - Underpass
 - Climbing Lane *
 - Bus Bay
 - Service Lane
- Wildlife Crossing**
- Underpass

- Biophysical Environment**
- Watercourse
- Protected Areas**
- Private Level**
- Private Conservancy/Mixed-use Estate

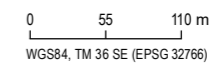
Human Environment

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INVESTING FOR THE COMMUNITY

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-8

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

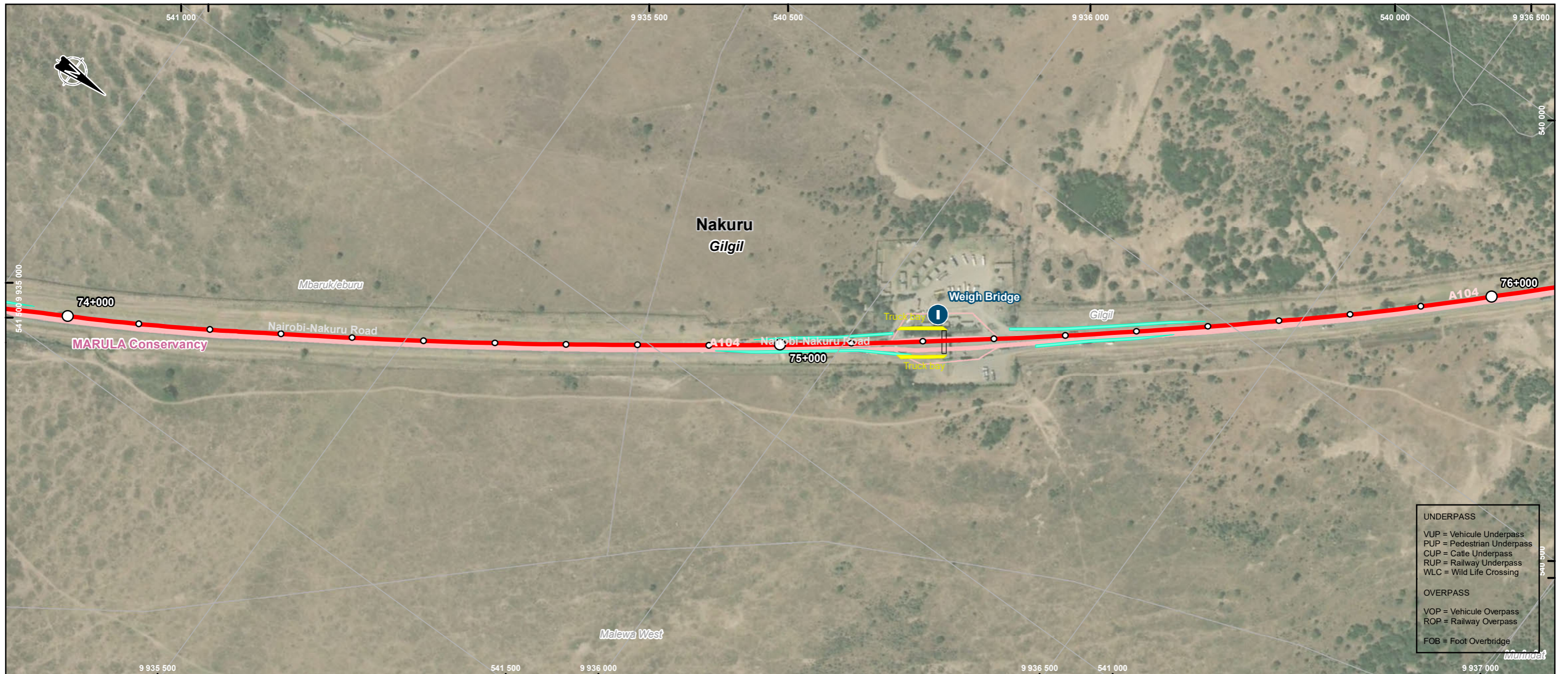


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Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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RUP = Railway Underpass
WLC = Wild Life Crossing
OVERPASS
VOP = Vehicule Overpass
ROP = Railway Overpass
FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Protected Areas

- Private Level**
- Private Conservancy/Mixed-use Estate

Human Environment

Sensitives Sites

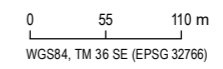
- Infrastructure
- Buildings



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-9

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
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Drawing : A. Monnard
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UNDERPASS
 VUP = Vehicle Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Underpass
- Run-off Water Treatment Equipment

Wildlife Crossing

- Underpass

Biophysical Environment

- Watercourse

Protected Areas

Private Level

- Private Conservancy/Mixed-use Estate

Human Environment



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-10

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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 Drawing: A. Monnard
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Overpass
- Service Lane

Biophysical Environment

- Watercourse

Protected Areas

- Private Conservancy/Mixed-use Estate

Human Environment

Sensitive Sites

- Accident Spot

Utility

- Existing Utilities**
- Pylon
- Power Transmission Line



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

**Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-11**

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

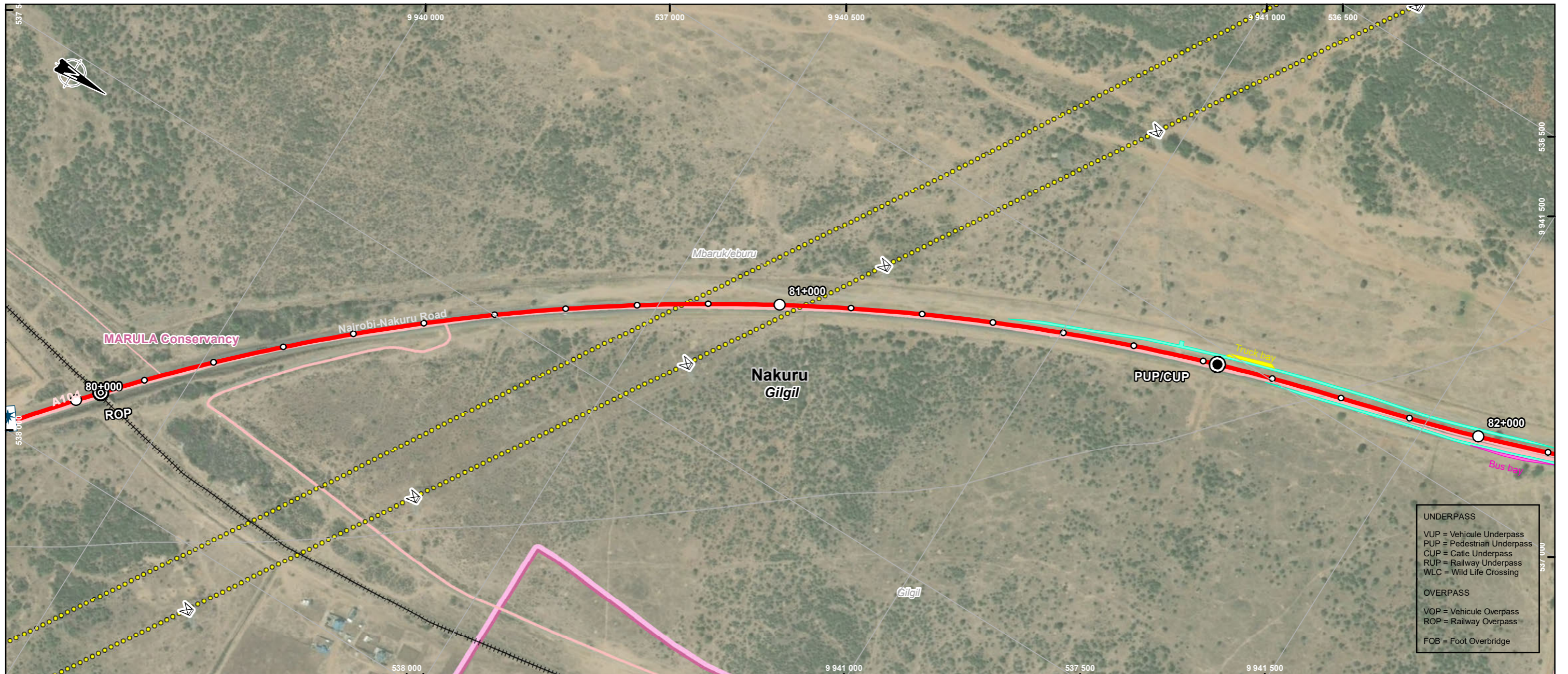
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WGS84, TM 36 SE (EPSG 32766)

2022-01-25

Preparation: C. Abdel-Malek
Drawing: A. Monnard
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PUP = Pedestrian Underpass
CUP = Cattle Underpass
RUP = Railway Underpass
WLC = Wild Life Crossing
OVERPASS
VOP = Vehicule Overpass
ROP = Railway Overpass
FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Overpass
- Underpass
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Protected Areas

- Private Conservancy/Mixed-use Estate

Human Environment

Sensitives Sites

- Accident Spot

Utility

Existing Utilities

- Pylon
- Power Transmission Line



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

**Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-12**

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Protected Areas

Private Level

- Private Conservancy/Mixed-use Estate

Human Environment



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

**Segment 1 - Dualling of A8 Highway
 Section 2 - Naivasha – Elementaita Road
 Sheet 2-13**

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

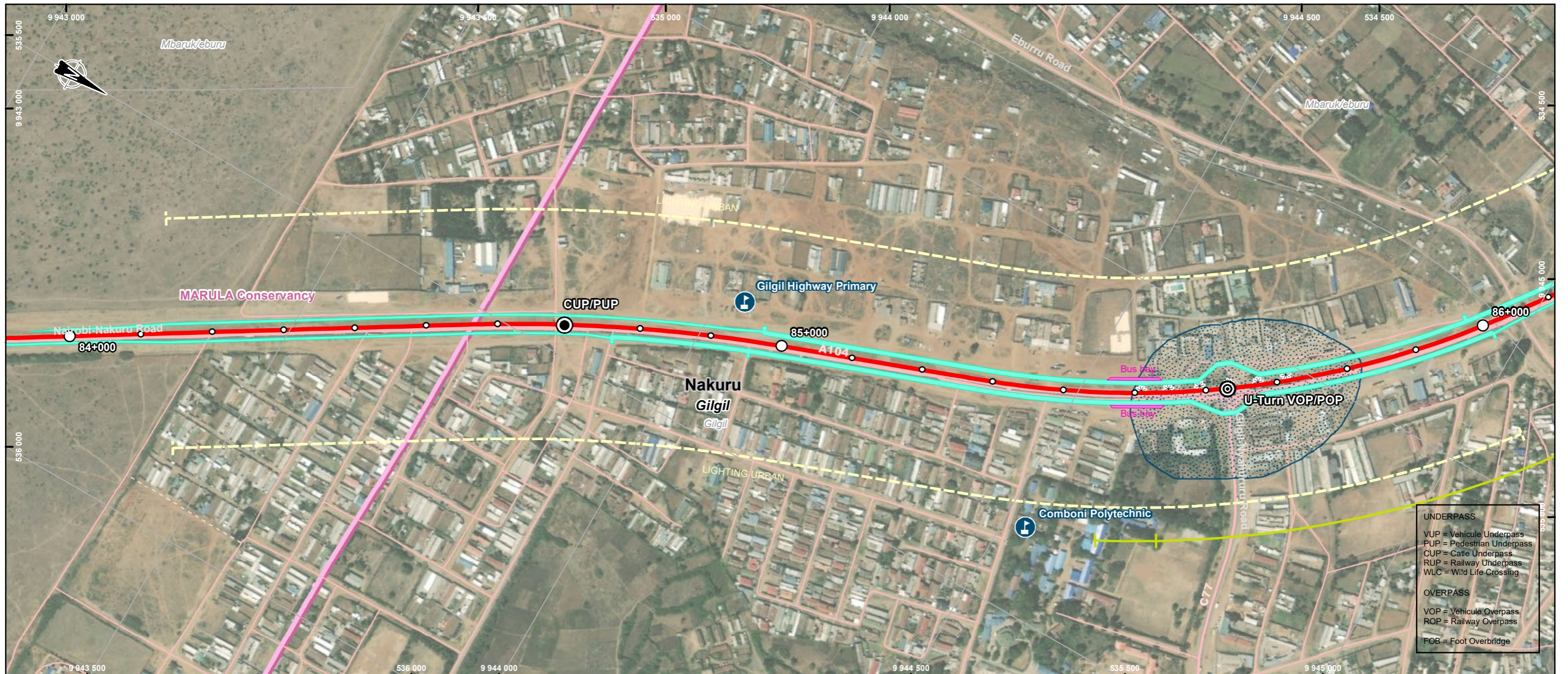
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

- Structural Project Elements**
- Overpass
 - Underpass
 - Lighting Urban *
 - Climbing Lane *
 - Bus Bay
 - Service Lane

- Biophysical Environment**
- Watercourse
- Protected Areas**
- Private Conservancy/Mixed-use Estate

- Human Environment**
- Sensitive Sites**
- School Institution
 - Flooding area
- Utility**
- Existing Utilities
 - Lamp Post

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-14

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12



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 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Run-off Water Treatment Equipment
- Lighting Urban *
- Climbing Lane *
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitives Sites**
- Accident Spot
 - School Institution



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

**Segment 1 - Dualling of A8 Highway
 Section 2 - Naivasha – Elementaita Road
 Sheet 2-15**

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

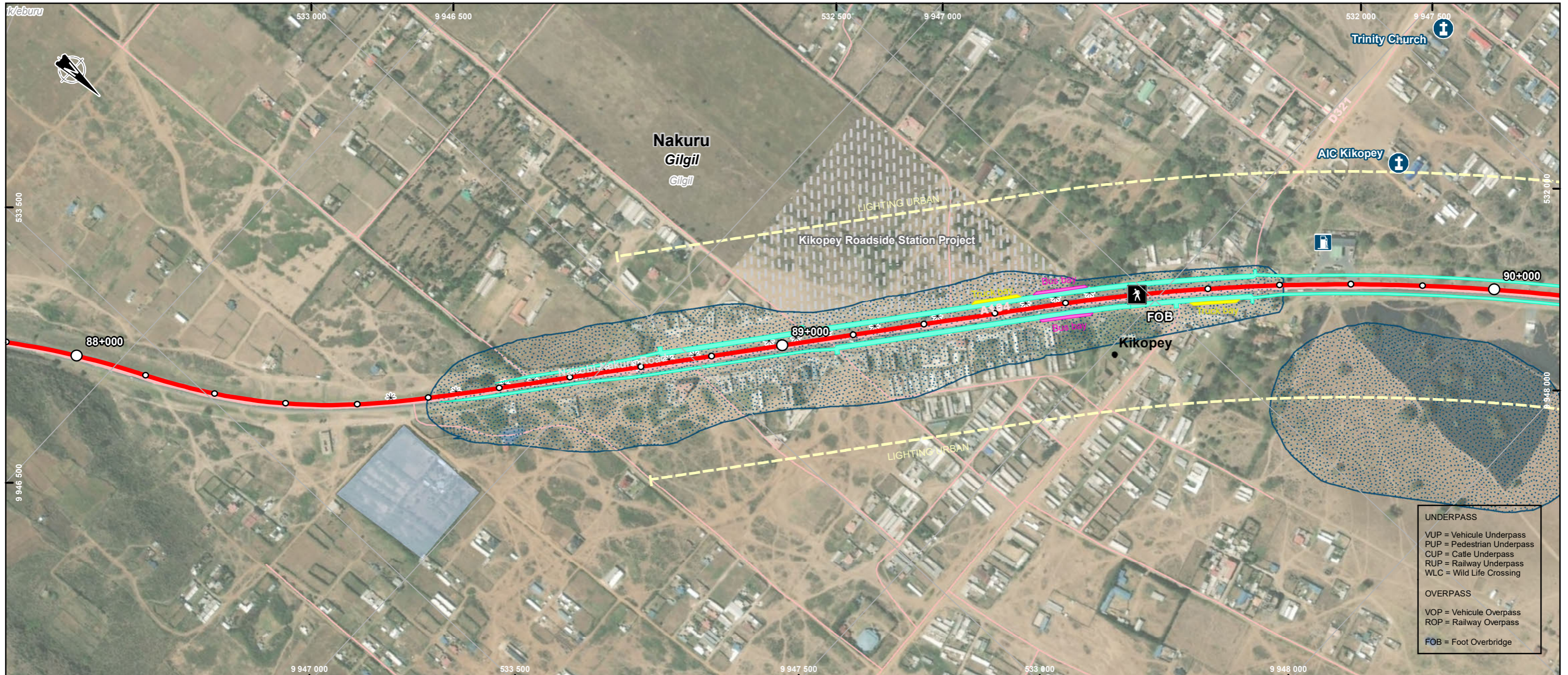
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Foot Overbridge
- Run-off Water Treatment Equipment
- Lighting Urban *
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Human

Sensitive Sites

- Gas Station
- Religious
- Flooding area
- Future

Utility

- Existing Utilities
- Lamp Post

Landuse (OSM)

- Retail



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

**Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-16**

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

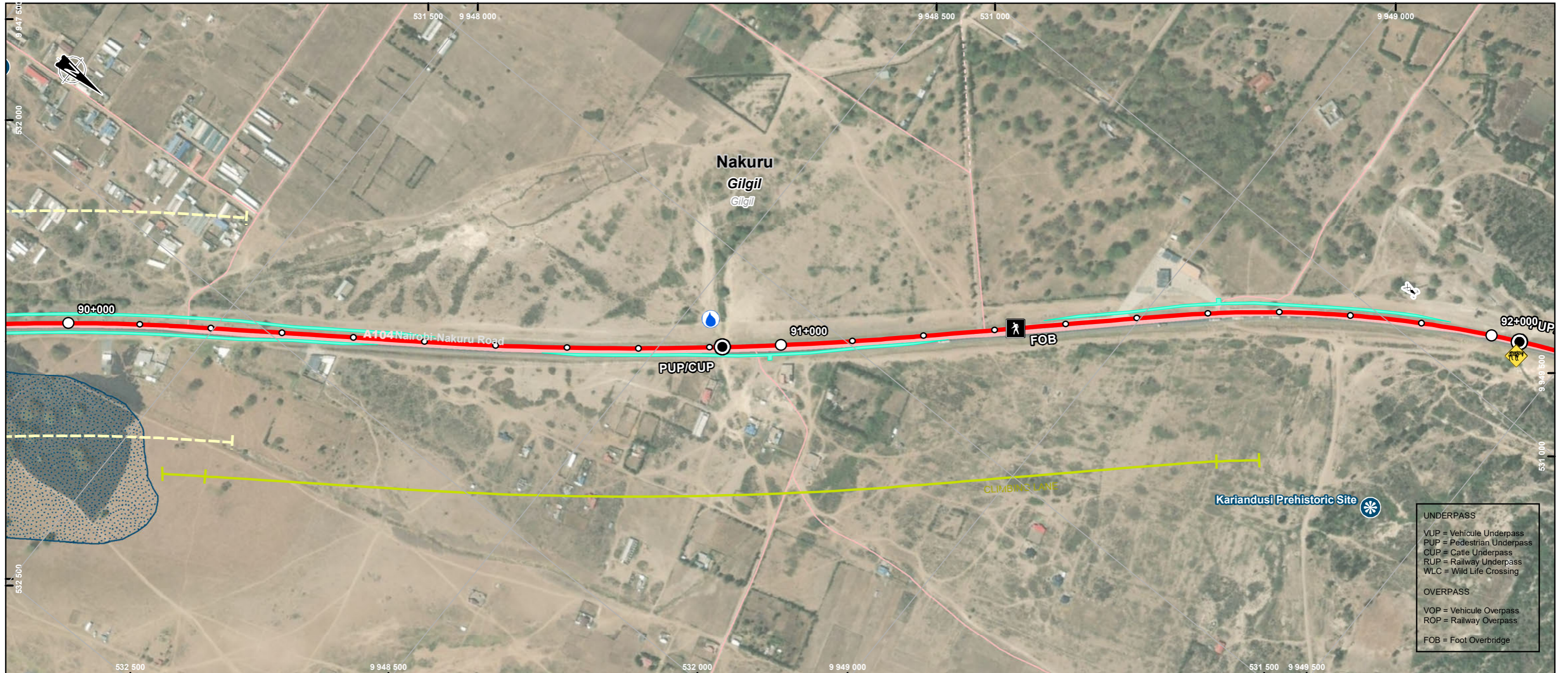
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 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

- Structural Project Elements**
- Underpass
 - Foot Overbridge
 - Run-off Water Treatment Equipment
 - Lighting Urban *
 - Climbing Lane *
 - Service Lane
- Wildlife Crossing**
- Underpass

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitives Sites**
- Cultural and heritage site
 - Religious Institution
 - Flooding area
- Utility**
- Existing Utilities**
- Telcom Mast

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-17

Sources :
 ESRI World Imagery
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 Bird Life International, IBA et KBA, 2020-12

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UNDERPASS
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OVERPASS
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 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Overpass
- Underpass
- Run-off Water Treatment Equipment
- Bus Bay
- Service Lane
- Wildlife Crossing**
- Underpass

Biophysical Environment

- Watercourse

Human Environment

- Sensitives Sites**
- Industry



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-18

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

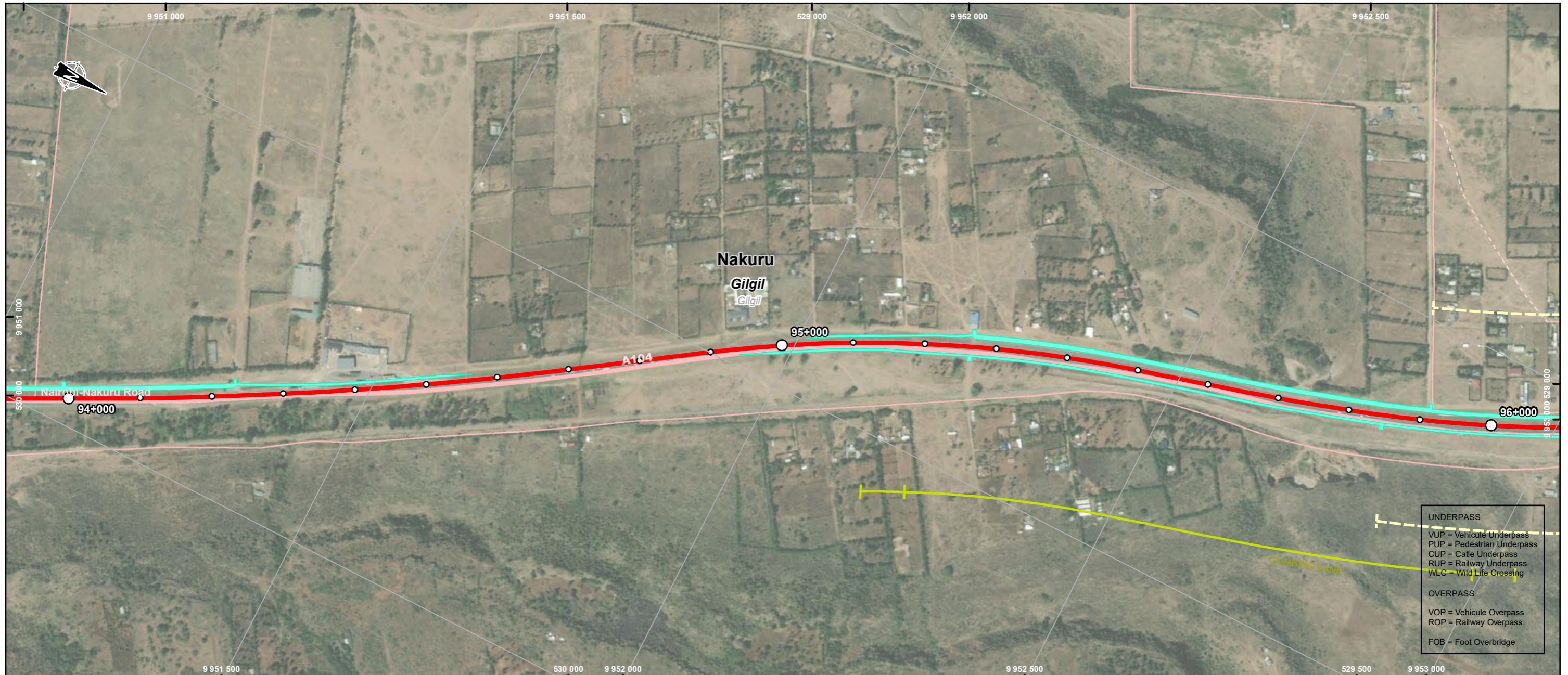
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- UNDERPASS**
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 RUP = Railway Underpass
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- OVERPASS**
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

- Structural Project Elements**
- Lighting Urban *
 - Climbing Lane *
 - Service Lane

- Biophysical Environment**
- Watercourse

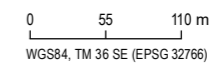
Human Environment

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 2 - Naivasha – Elementaita Road
Sheet 2-19

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



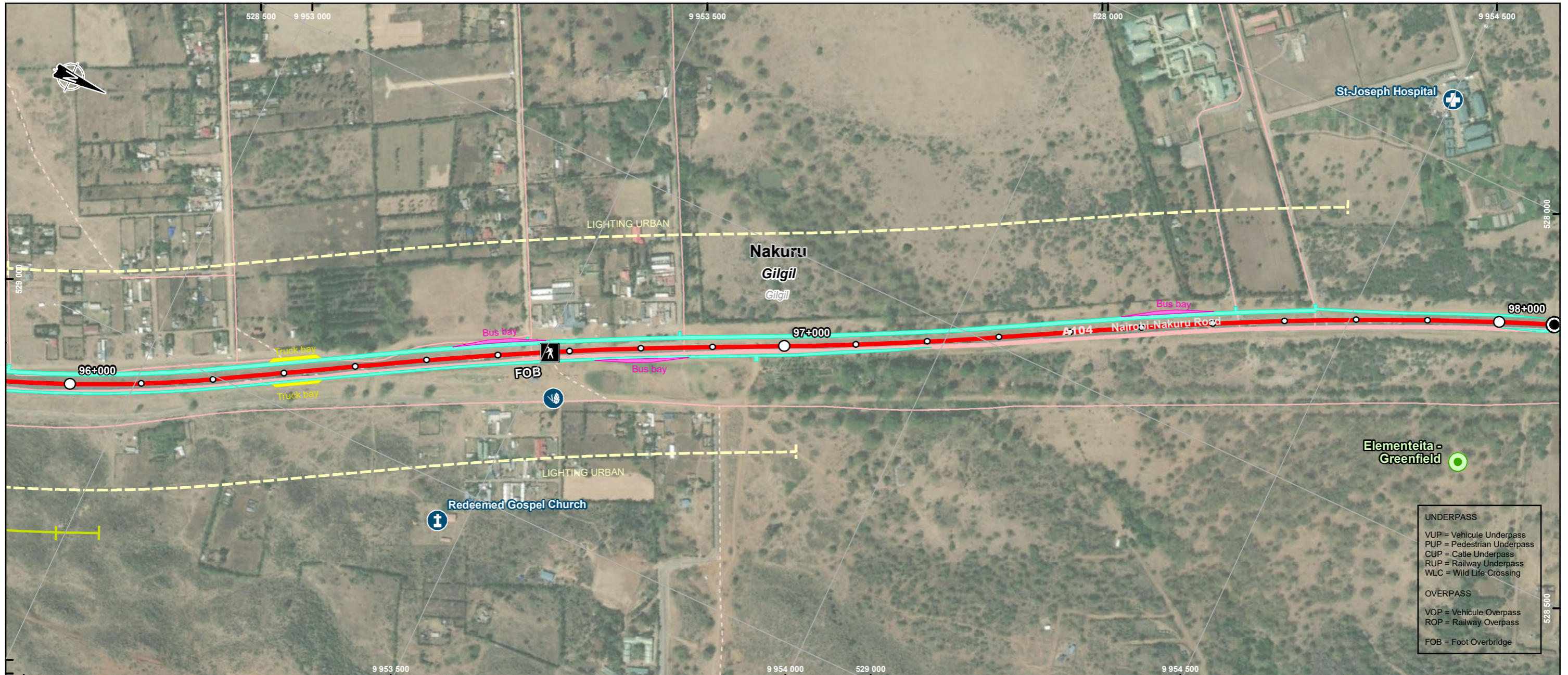
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 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

2 - Naivasha – Elementaita Road

Quarries considered

- Retained

Structural Project Elements

- Underpass
- Foot Overbridge
- Lighting Urban *
- Climbing Lane *
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

Sensitives Sites

- Farming activities
- Health Facilities
- Religious Institution

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

**Segment 1 - Dualling of A8 Highway
 Section 2 - Naivasha – Elementaita Road
 Sheet 2-20**

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Quarries considered

- Retained

Structural Project Elements

- Underpass
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitive Sites**
- Health Facilities



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-21

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

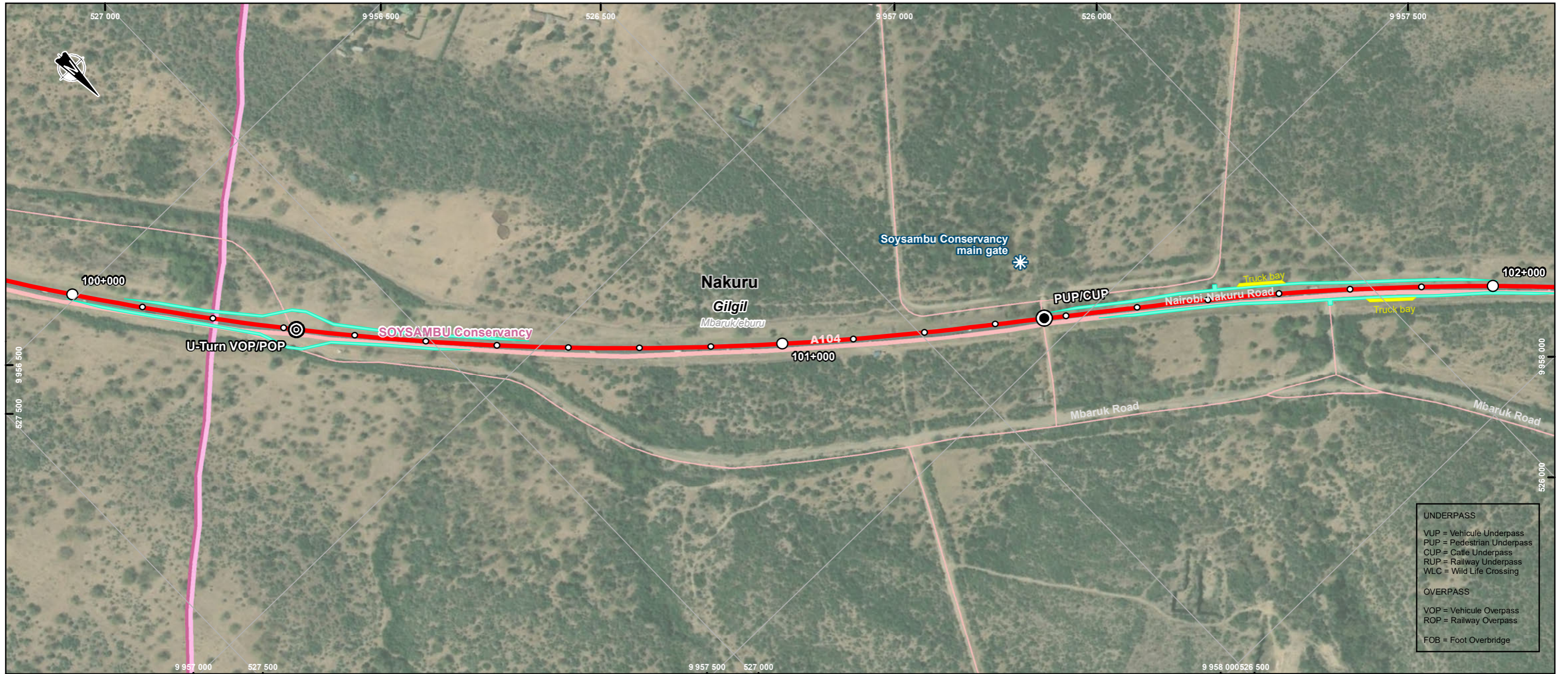
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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
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 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Overpass
- Underpass
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Protected Areas

Private Level

- Private Conservancy/Mixed-use Estate

Human Environment

Sensitive Sites

- Sensitive Site



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-22

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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Preparation: C. Abdel-Malek
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UNDERPASS	
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CUP	= Cattle Underpass
RUP	= Railway Underpass
WLC	= Wild Life Crossing
OVERPASS	
VOP	= Vehicule Overpass
ROP	= Railway Overpass
FOB	= Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Service Lane

Biophysical Environment

- Watercourse

Protected Areas

Private Level

- Private Conservancy/Mixed-use Estate

Human Environment

- Sensitive Site
- Future Developments



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-23

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

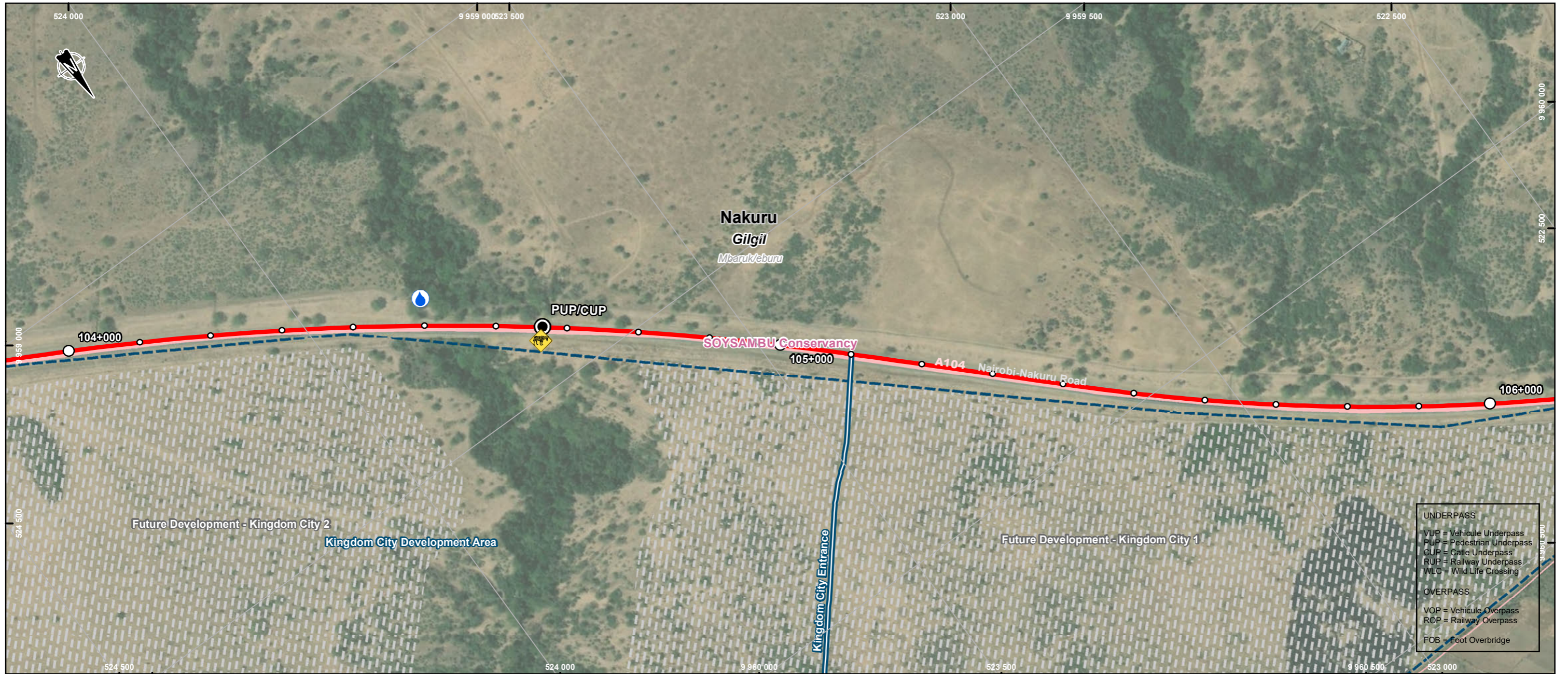
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Underpass
- Run-off Water Treatment Equipment
- Wildlife Crossing**
- Underpass

Biophysical Environment

- Watercourse

Protected Areas

- Private Conservancy/Mixed-use Estate

Human Environment

Sensitive Sites

- Kingdom City Entrance
- Sensitive Site
- Future Developments

UNDERPASS
 VUP = Vehicle Underpass
 PUP = Pedestrian Underpass
 CUP = Gate Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

**Segment 1 - Dualling of A8 Highway
 Section 2 - Naivasha – Elementaita Road
 Sheet 2-24**

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

0 55 110 m
 WGS84, TM 36 SE (EPSG 32766)

2022-01-25

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Overpass
- Underpass
- Run-off Water Treatment Equipment
- Bus Bay
- Service Lane
- Wildlife Crossing**
- Underpass

Biophysical Environment

- Watercourse
- Protected Areas**
- Private Conservancy/Mixed-use Estate

Human Environment

- Sensitive Sites**
- Accident Spot
- School Institution
- Sensitive Site
- Future Developments

- UNDERPASS**
- VUP = Vehicle Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
- FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-25

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

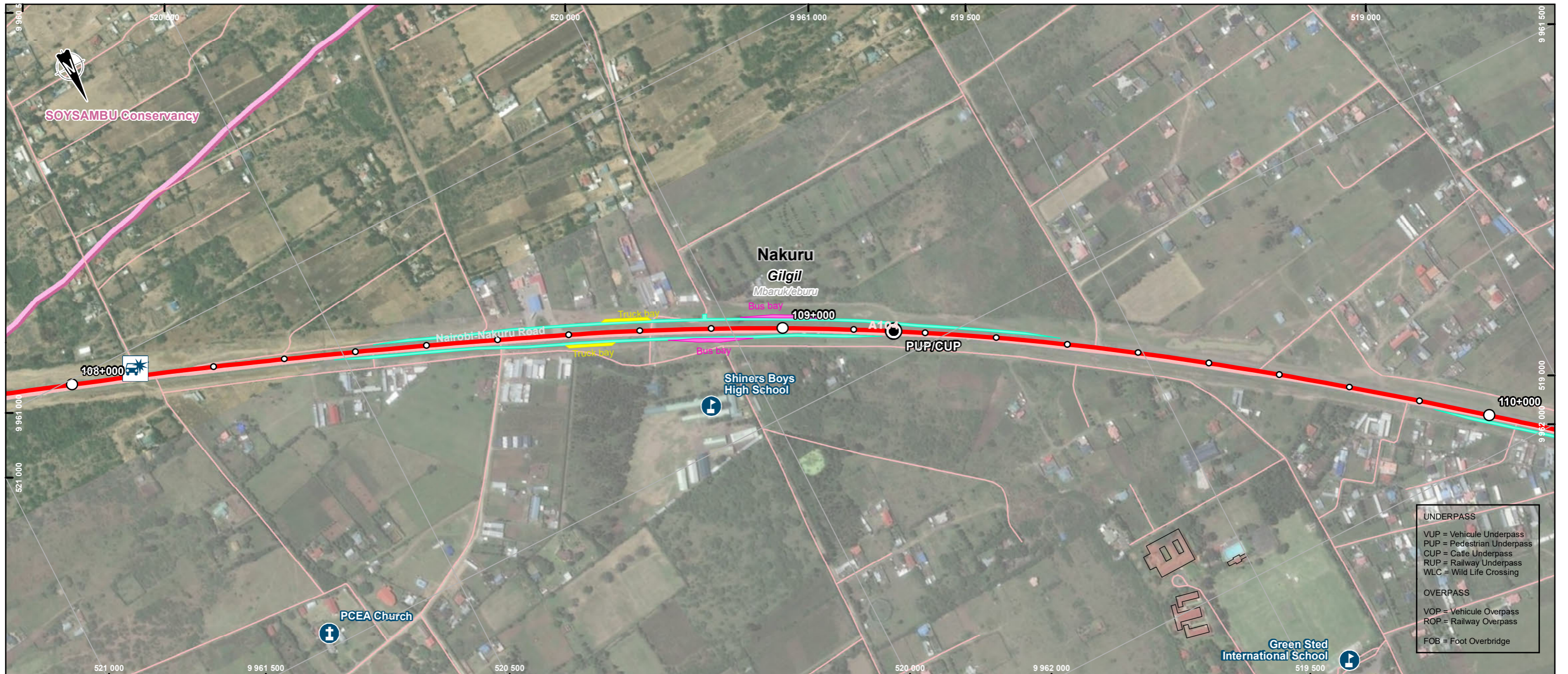
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2022-01-25

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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UNDERPASS
 VUP = Vehicle Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Underpass
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Protected Areas

- Private Level**
- Private Conservancy/Mixed-use Estate

Human Environment

Sensitives Sites

- Accident Spot
- Religious Institution
- School Institution
- Buildings



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

**Segment 1 - Dualling of A8 Highway
 Section 2 - Naivasha – Elementaita Road
 Sheet 2-26**

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
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UNDERPASS
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 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 2 - Naivasha – Elementaita Road

Structural Project Elements

- Underpass
- Foot Overbridge
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

Sensitives Sites

- Accident Spot
- School Institution
- Flooding area
- Buildings



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-27

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

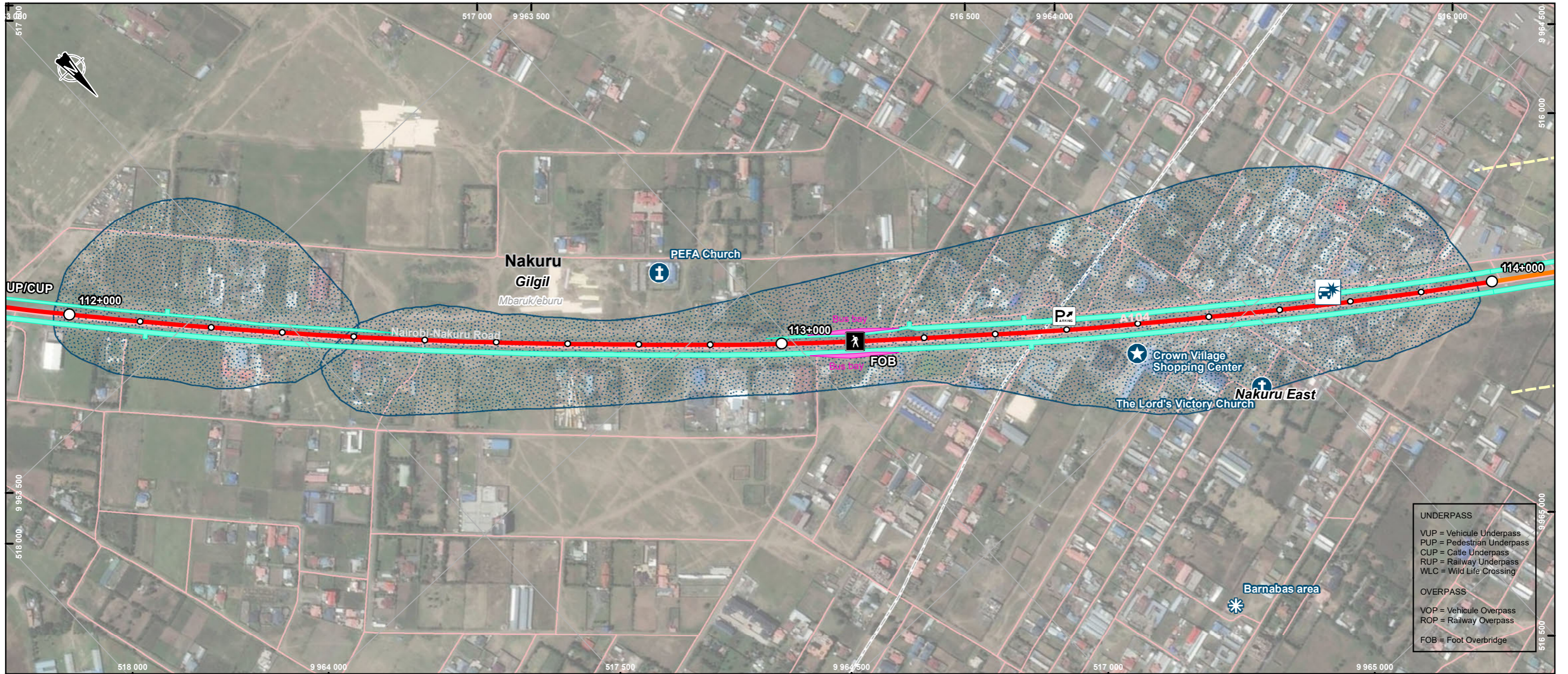
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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
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UNDERPASS
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 PUP = Pedestrian Underpass
 CUP = Cable Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road
- 3 - Elementaita Road – Njoro Turnoff (Nakuru Town)

Structural Project Elements

- Access to Truck Park
- Foot Overbridge
- Lighting Urban *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse
- Protected Areas**

Human Environment

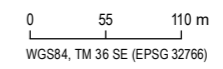
- Sensitive Sites**
- Accident Spot
 - Market and shopping area
 - Religious Institution
 - Sensitive Site
 - Flooding area



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 2 - Naivasha – Elementaita Road Sheet 2-28

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- railway
 - Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 2 - Naivasha – Elementaita Road
 - 3 - Elementaita Road – Njoro Turnoff (Nakuru Town)

- Structural Project Elements**
- Overpass
 - Lighting Urban *
 - Service Lane
 - Truck Bay

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitives Sites**
- Accident Spot
 - Flooding area
- Point of Interest**
- Police
 - Power Substation
- Existing Utilities**
- Power Transmission Line
 - Substation
 - Buildings

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

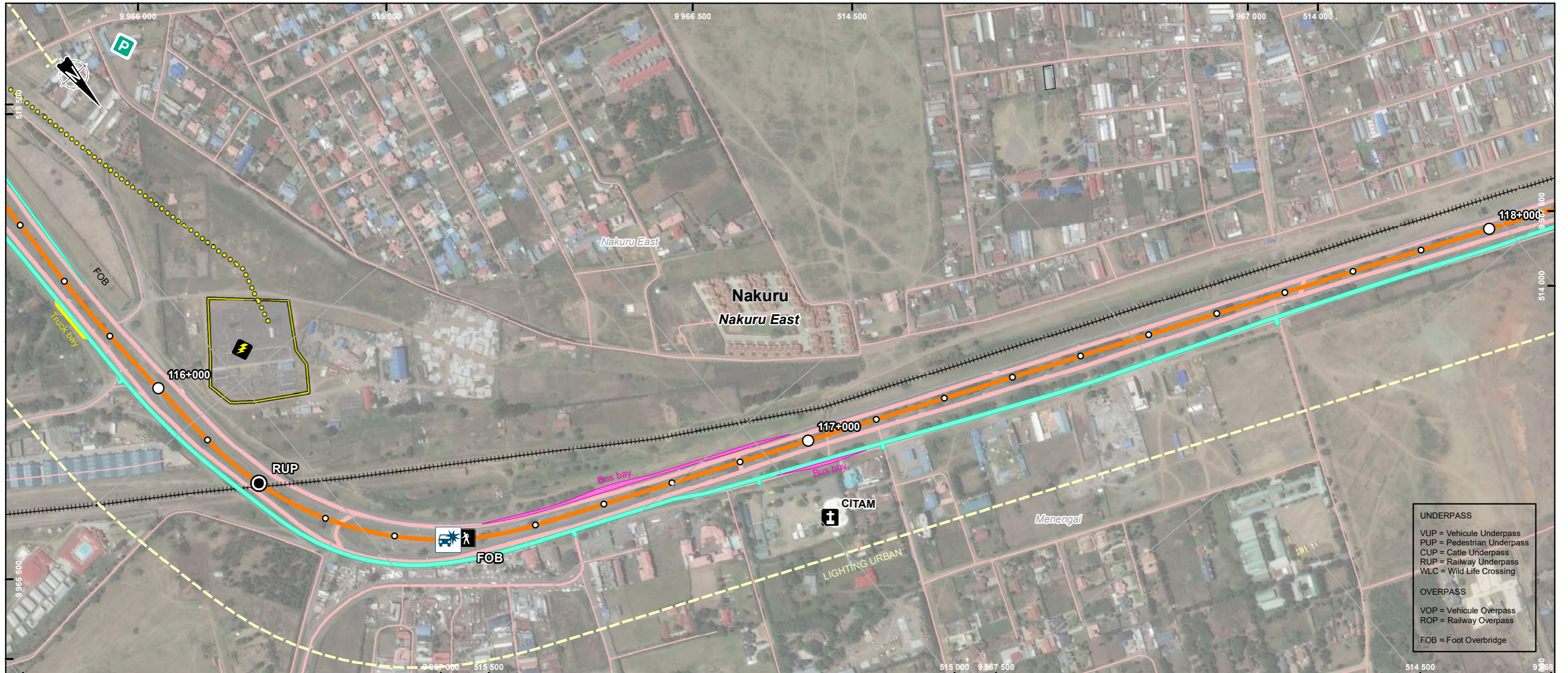
Segment 1 - Dualling of A8 Highway Section 3 - Elementaita Road – Njoro Turnoff Sheet 3-1

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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 Drawing: M. Lévesque
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 3 - Elementaita Road – Njoro Turnoff (Nakuru Town)

Structural Project Elements

- Underpass
- Foot Overbridge
- Lighting Urban *
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Accident Spot

Point of Interest

- Police

Worship Centers

- Christian
- Power Substation

Existing Utilities

- Power Transmission Line
- Substation
- Buildings

- UNDERPASS**
- VUP = Vehicule Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 3 - Elementaita Road – Njoro Turnoff Sheet 3-2

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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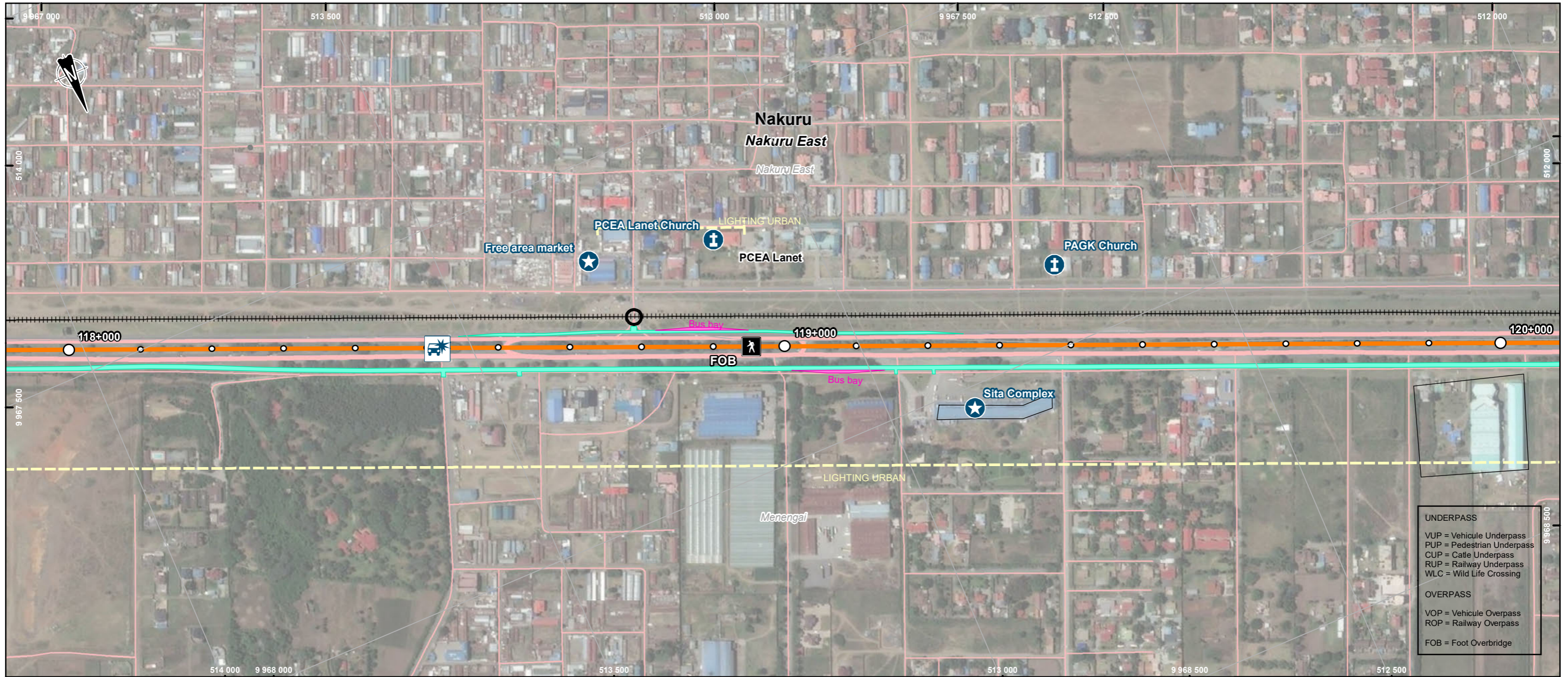
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Drawing: M. Lévesque
Validation: G. Pothier
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UNDERPASS
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 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 3 - Elementaita Road – Njoro Turnoff (Nakuru Town)

Structural Project

- Foot Overbridge
- Lighting Urban *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitives Sites**
- Accident Spot
 - Market and shopping area
 - Religious Institution
 - Buildings

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 3 - Elementaita Road – Njoro Turnoff Sheet 3-3

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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2022-01-26

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 Drawing: M. Lévesque
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UNDERPASS
 VUP = Vehicule Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 3 - Elementaita Road – Njoro Turnoff (Nakuru Town)

Structural Project

- At-grade crossing
- Foot Overbridge
- Speed bumps
- Lighting Urban *
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse
- Protected Areas**
- National Level**
- Forest Reserve
- World Heritage Site (natural or mixed)
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Sensitive Sites**
- Health Facilities
- Religious Institution
- School Institution

Utility

- Existing Utilities**
- Lamp Post
- Worship Building or Area
- Buildings
- Landuse (OSM)**
- Residential



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 3 - Elementaita Road – Njoro Turnoff Sheet 3-4

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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Preparation: P. Alary-Paquette
 Drawing: M. Lévesque
 Validation: G. Pothier
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UNDERPASS
 VUP = Vehicule Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- +++++ railway
 - Primary
 - Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 3 - Elementaita Road – Njoro Turnoff (Nakuru Town)
 - Flyover Viaduct (Nakuru)

- Structural Project Elements**
- ⊙ Overpass
 - ⊙ Underpass
 - ⊗ At-grade crossing
 - Lighting Urban *
 - Bus Bay
 - Service Lane
 - Truck Bay

- Biophysical Environment**
- Watercourse
- Protected Areas**
- National Level**
- Forest Reserve

- Human Environment**
- Sensitives Sites**
- Accident Spot
 - Health Facilities
 - Market and shopping area
 - Transport
 - Flooding area
 - Sensitive Site
- Point of Interest**
- Pharmacy
 - Police
- Worship Centers**
- Other Worship Center

- Utility**
- Existing Utilities**
- Lamp Post
 - Buildings
- Landuse (OSM)**
- Commercial
 - Park

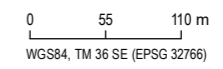
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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 3 - Elementaita Road – Njoro Turnoff Sheet 3-5

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

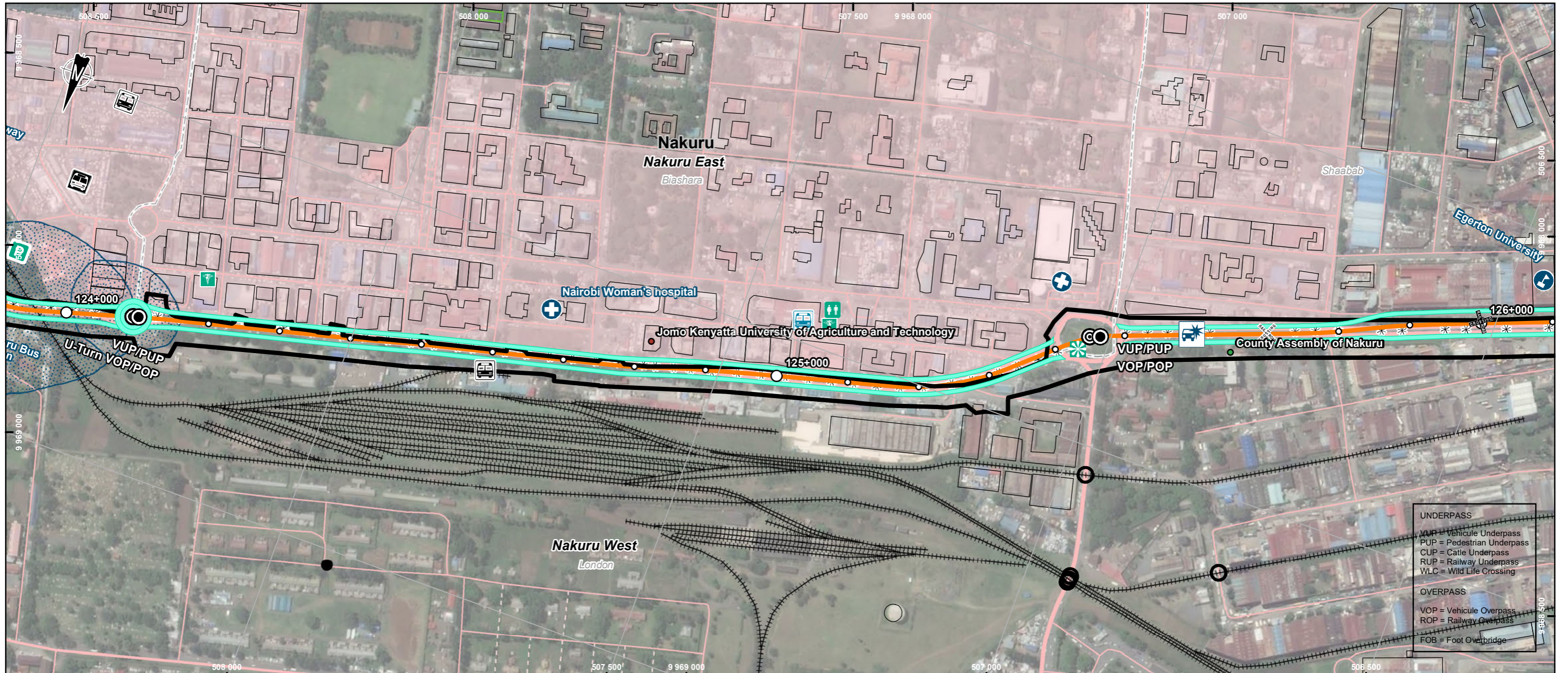


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Preparation: P. Alary-Paquette
 Drawing: M. Lévesque
 Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Secondary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 3 - Elementaita Road – Njoro Turnoff (Nakuru Town)
- Flyover Viaduct (Nakuru)

Structural Project Elements

- Overpass
- Underpass
- At-grade crossing
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Accident Spot
- Health Facilities
- School Institution
- Flooding area

Point of Interest

- Archaeological, Attraction, Monument or Viewpoint
- Pharmacy
- Police
- Toilet

Utility

Existing Utilities

- Lamp Post

Buildings

Landuse (OSM)

- Commercial
- Forest
- Park

- UNDERPASS**
- VUP = Vehicule Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge

* Illustrated further from the road for better legibility



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 3 - Elementaita Road – Njoro Turnoff Sheet 3-6

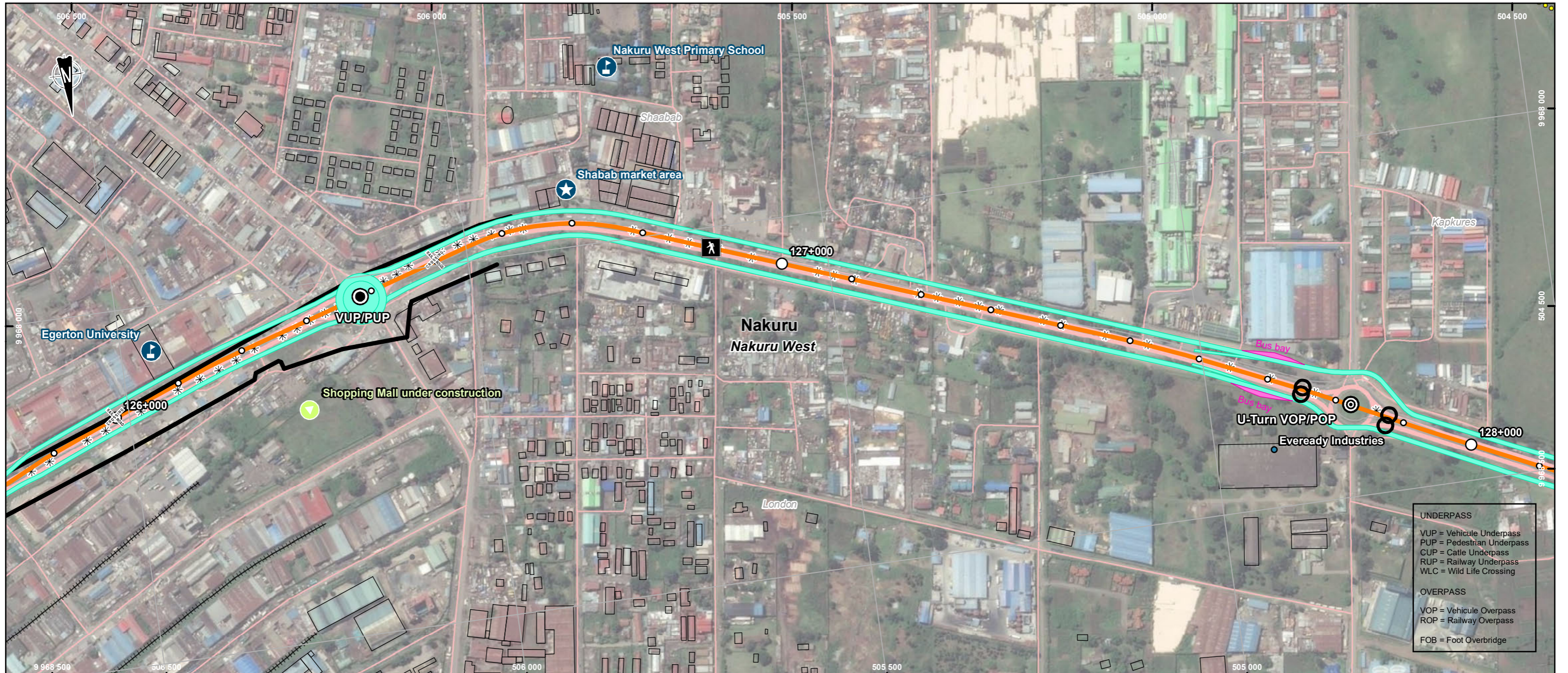
Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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Drawing: M. Lévesque
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UNDERPASS
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 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- railway
 - Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track
 - Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 3 - Elementaita Road – Njoro Turnoff (Nakuru Town)
 - Flyover Viaduct (Nakuru)

Structural Project Elements

- Overpass
- Underpass
- At-grade crossing
- Foot Overbridge
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitives Sites**
- Market and shopping area
 - School Institution
- Future Developments**
- Shopping Mall under construction

Utility

- Existing Utilities**
- Lamp Post
- Existing Utilities**
- Power Transmission Line
 - Buildings



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 3 - Elementaita Road – Njoro Turnoff Sheet 3-7

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

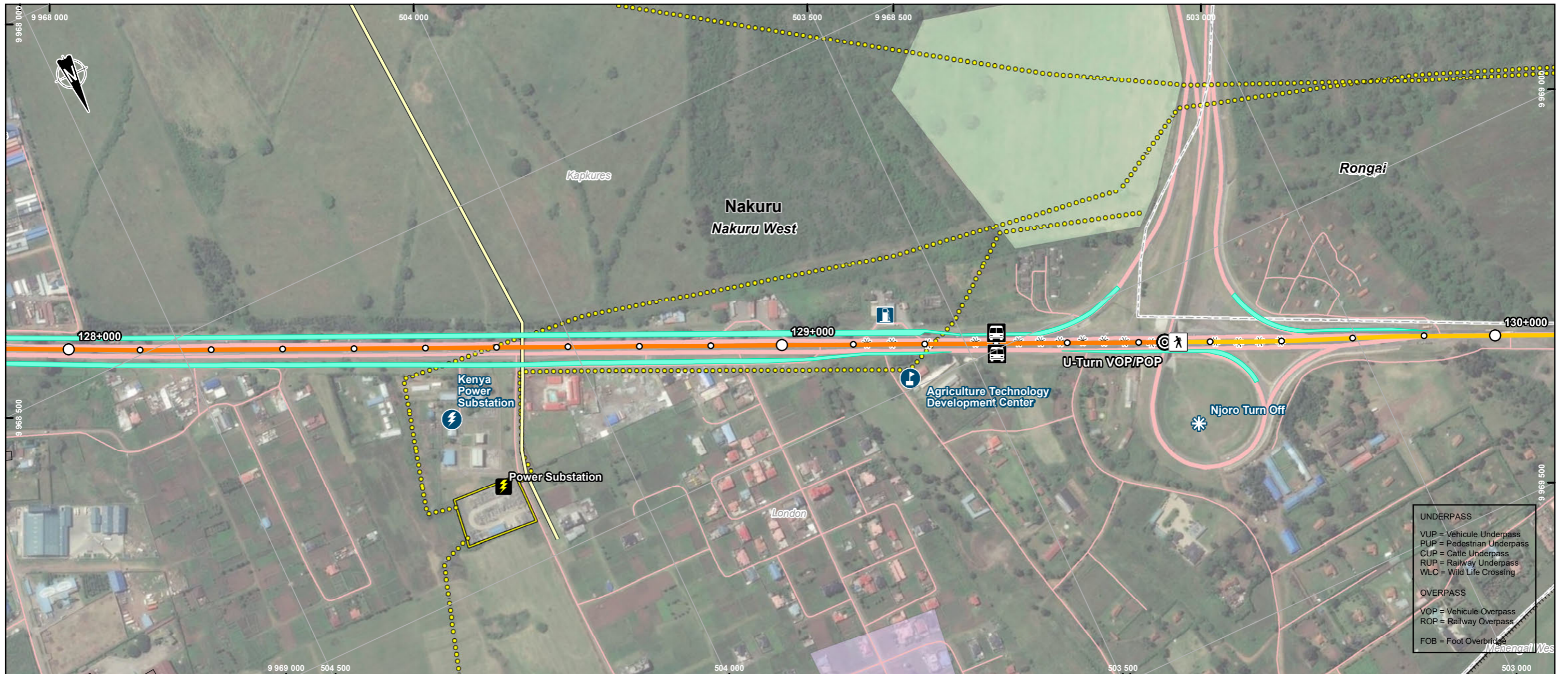
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Preparation: P. Alary-Paquette
 Drawing: M. Lévesque
 Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 3 - Elementaita Road – Njoro Turnoff (Nakuru Town)
- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Overpass
- Bus bay shelter
- Pedestrian facility
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitive Sites**
- Gas Station
 - Power Substation
 - School Institution
 - Sensitive Site

Utility

- Existing Utilities**
- Lamp Post
 - Power Substation
- Existing Utilities**
- Power Transmission Line
 - Pipeline crossing
 - Substation
 - Buildings
- Landuse (OSM)**
- Farmland
 - Residential



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 3 - Elementaita Road – Njoro Turnoff Sheet 3-8

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

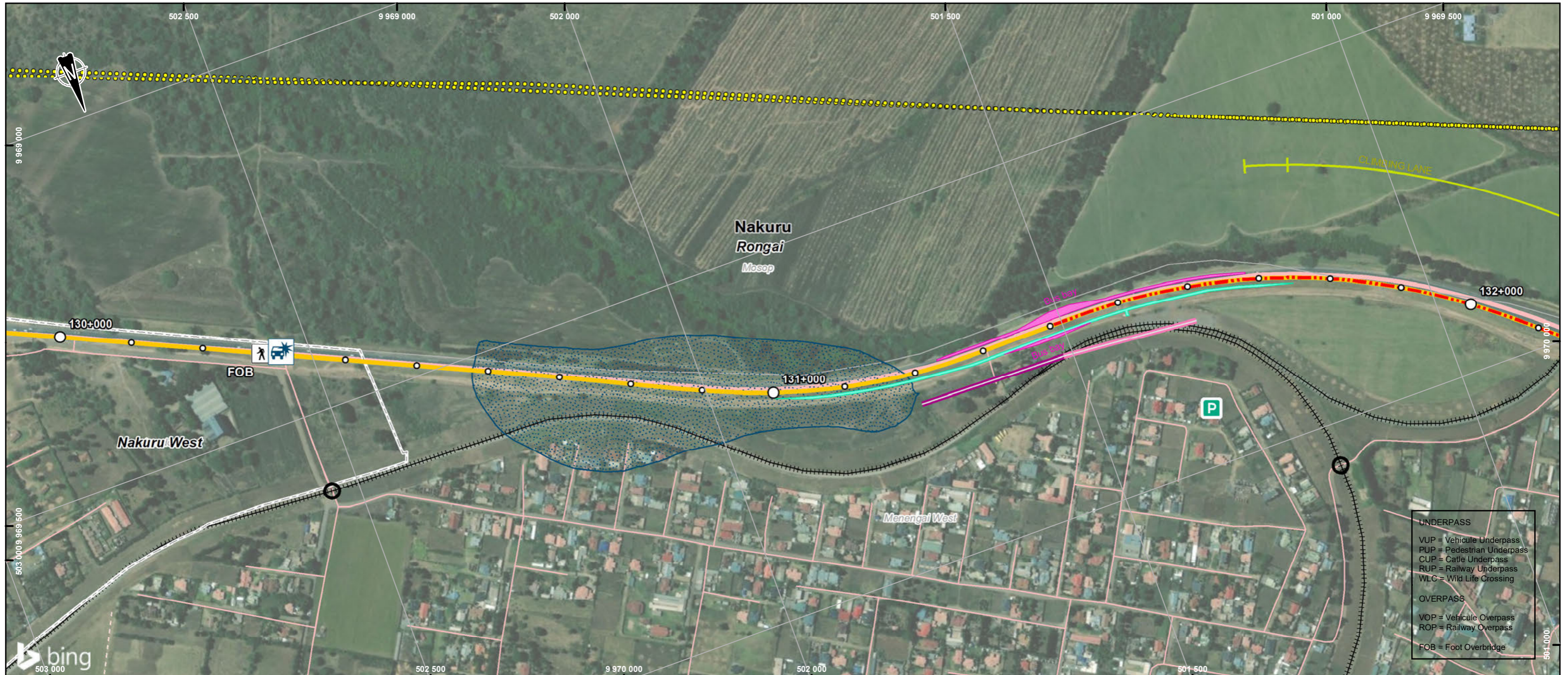
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Foot Overbridge
- Noise Barrier *
- Noise Berm *
- Climbing Lane *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitive Sites**
- Accident Spot
 - Infrastructure
 - Accident Zone
 - Flooding area
- Point of Interest**
- Police

Existing Utilities

- Power Transmission Line

- UNDERPASS**
- VUP = Vehicule Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
- FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-1

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

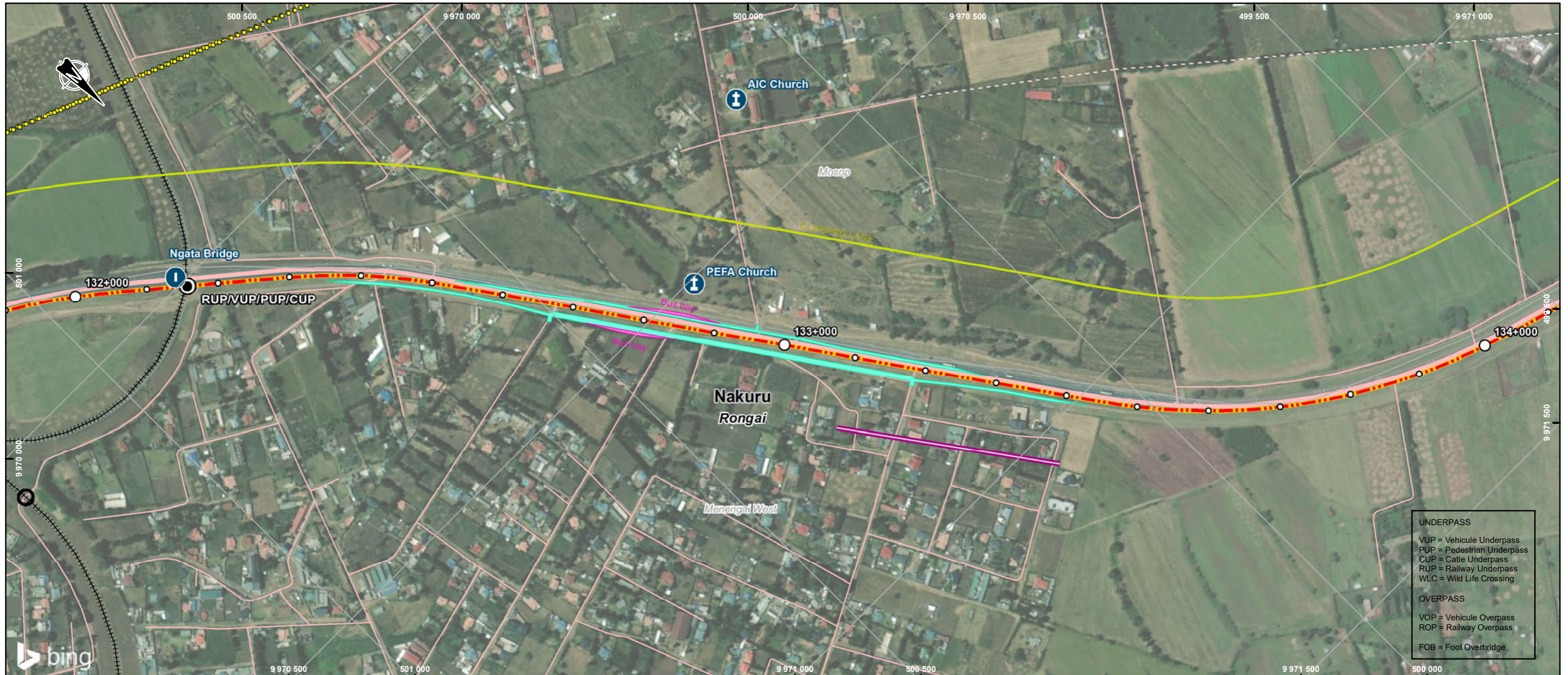
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WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Primary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Underpass
- Noise Barrier *
- Climbing Lane *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Infrastructure
- Religious Institution
- Accident Zone

Existing Utilities

- Power Transmission Line

- UNDERPASS**
- VUP = Vehicle Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-2

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

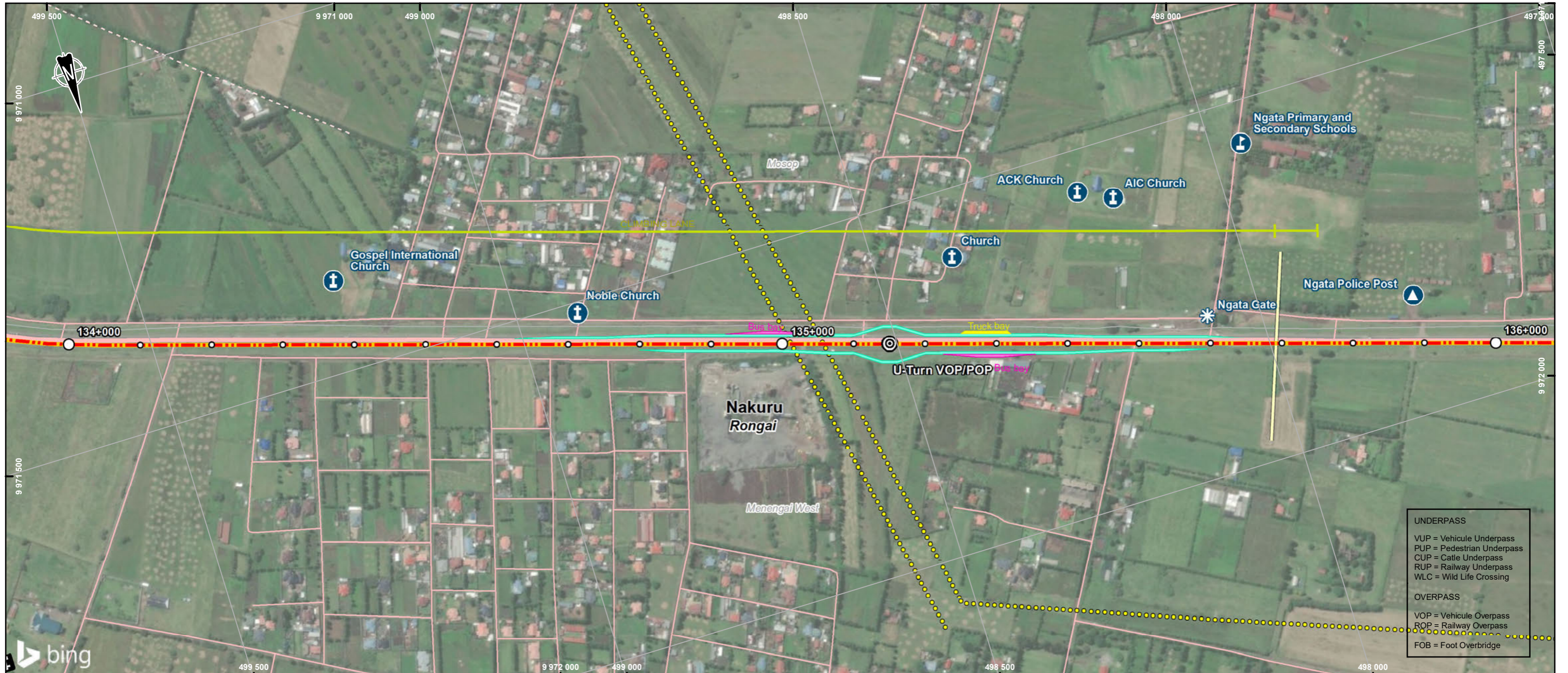
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WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 4 - Njoro Turnoff – Mau Summit

- Structural Project Elements**
- Overpass
 - Climbing Lane *
 - Bus Bay
 - Service Lane
 - Truck Bay

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- Public Institution
 - Religious Institution
 - School Institution
 - ✳ Sensitive Site
 - Accident Zone
- Worship Centers**
- Christian

- Existing Utilities**
- Power Transmission Line
 - Pipeline crossing

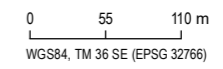
- UNDERPASS**
- VJP = Vehicule Underpass
 - PJP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway
Section 4 - Njoro Turnoff – Mau Summit
Sheet 4-3

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12



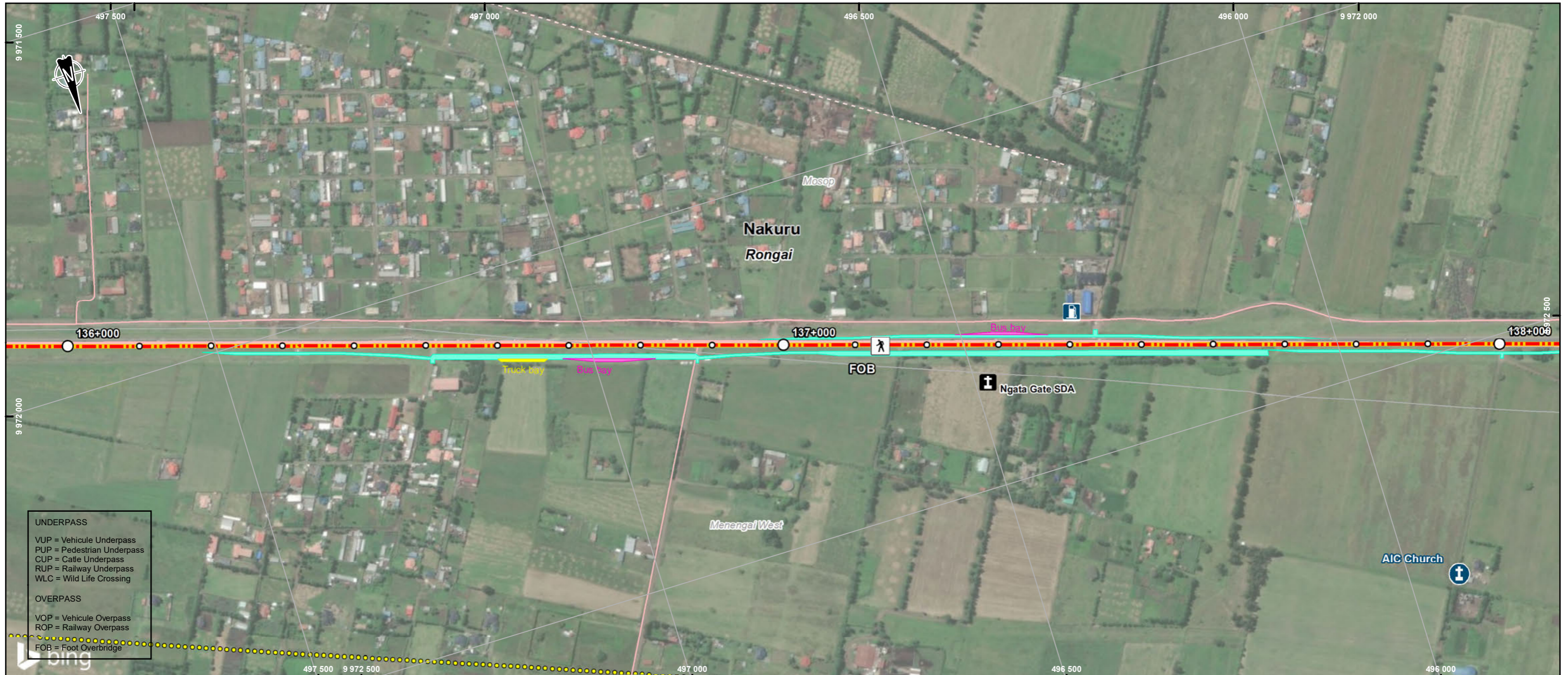
2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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Boundaries and measurements shown on this document must not be used for engineering or land survey delineation. A land register analysis conducted by a land surveyor was not undertaken.



<p>Administrative Limits</p> <ul style="list-style-type: none"> County (Nakuru) Sub-County (Gilgil) Ward (<i>Murindat</i>) City (Njoro) <p>Transportation Network</p> <ul style="list-style-type: none"> Primary Tertiary, Residential or Unclassified Footway, Path or Track 	<p>Project Components</p> <ul style="list-style-type: none"> Kilometric point (1 km interval) Kilometric point (100 m interval) <p>Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)</p> <ul style="list-style-type: none"> 4 - Njoro Turnoff – Mau Summit 	<p>Structural Project</p> <ul style="list-style-type: none"> Foot Overbridge Bus Bay Service Lane Truck Bay 	<p>Biophysical Environment</p> <ul style="list-style-type: none"> Watercourse 	<p>Human Environment</p> <p>Sensitive Sites</p> <ul style="list-style-type: none"> Gas Station Religious Institution <p>Accident Zone</p> <ul style="list-style-type: none"> Accident Zone <p>Worship Centers</p> <ul style="list-style-type: none"> Christian 	<p>Existing Utilities</p> <ul style="list-style-type: none"> Power Transmission Line
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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-4

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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WGS84, TM 36 SE (EPSG 32766)

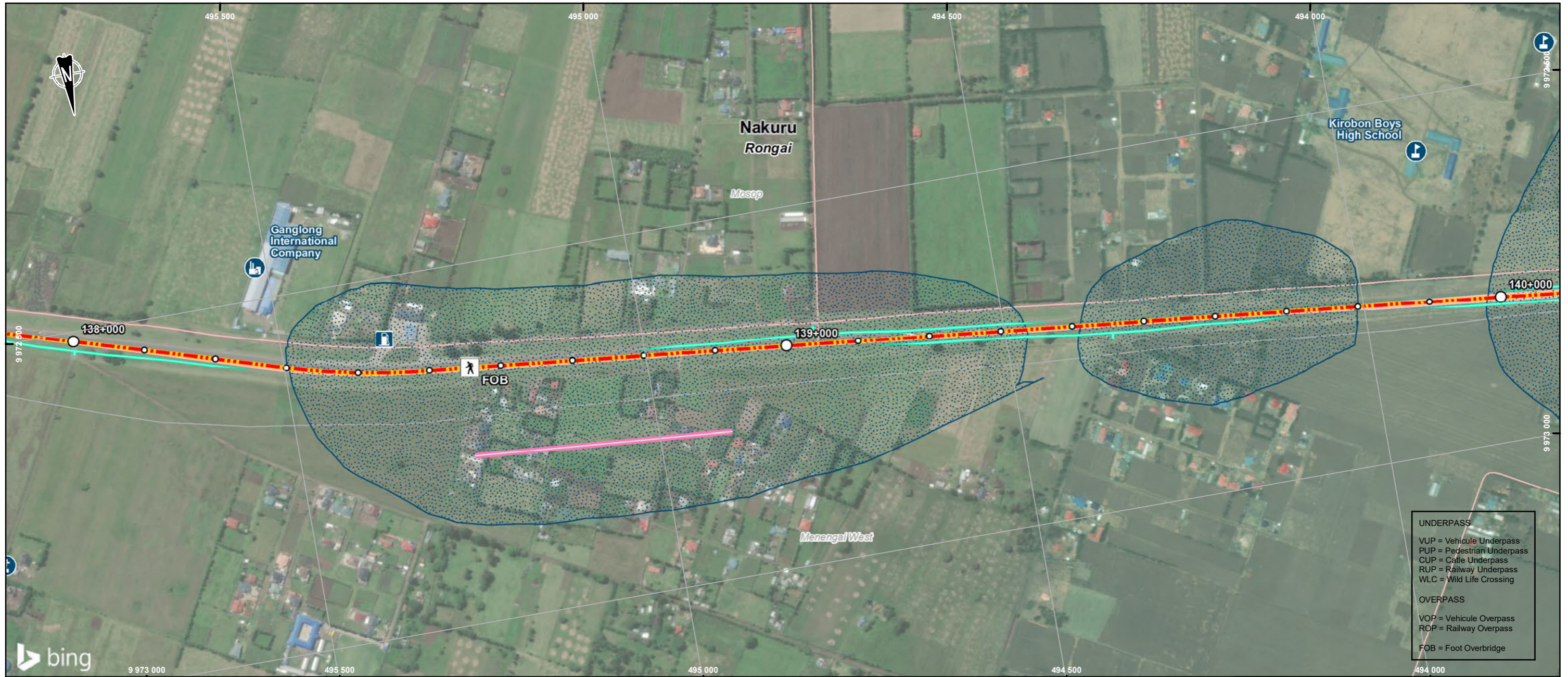
2022-01-25

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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WSP

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Boundaries and measurements shown on this document must not be used for engineering or land survey delineation. A land register analysis conducted by a land surveyor was not undertaken.



Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Foot Overbridge
- Noise Berm *
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

Sensitives Sites

- Gas Station
- Industry
- Religious Institution
- School Institution
- Accident Zone
- Flooding area

- UNDERPASS**
- VJP = Vehicule Underpass
 - PJP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-5

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

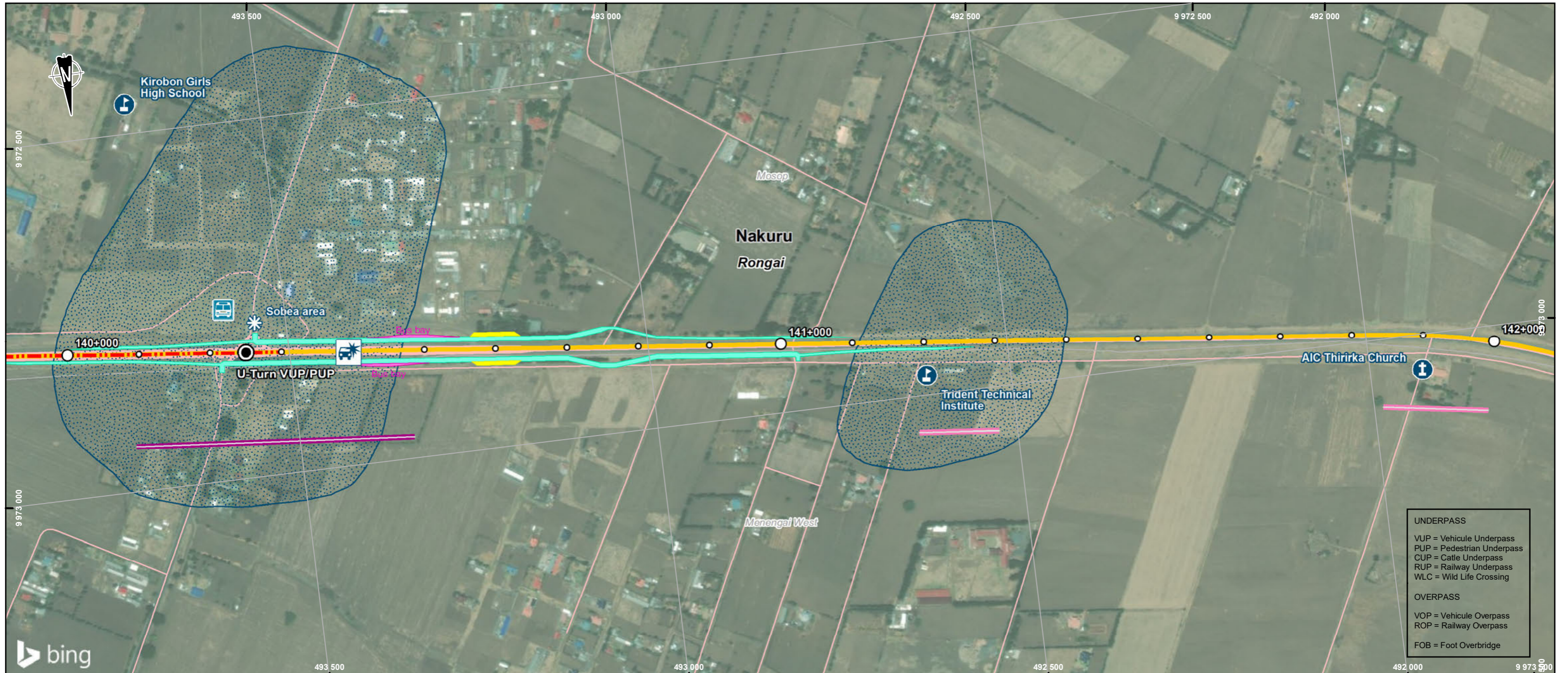
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WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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UNDERPASS	
VJP	= Vehicle Underpass
PJP	= Pedestrian Underpass
CUP	= Cattle Underpass
RUP	= Railway Underpass
WLC	= Wild Life Crossing
OVERPASS	
VOP	= Vehicle Overpass
ROP	= Railway Overpass
FOB	= Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Underpass
- Noise Barrier *
- Noise Berm *
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Accident Spot
- Religious Institution
- School Institution
- Sensitive Site
- Accident Zone
- Flooding area



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-6

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

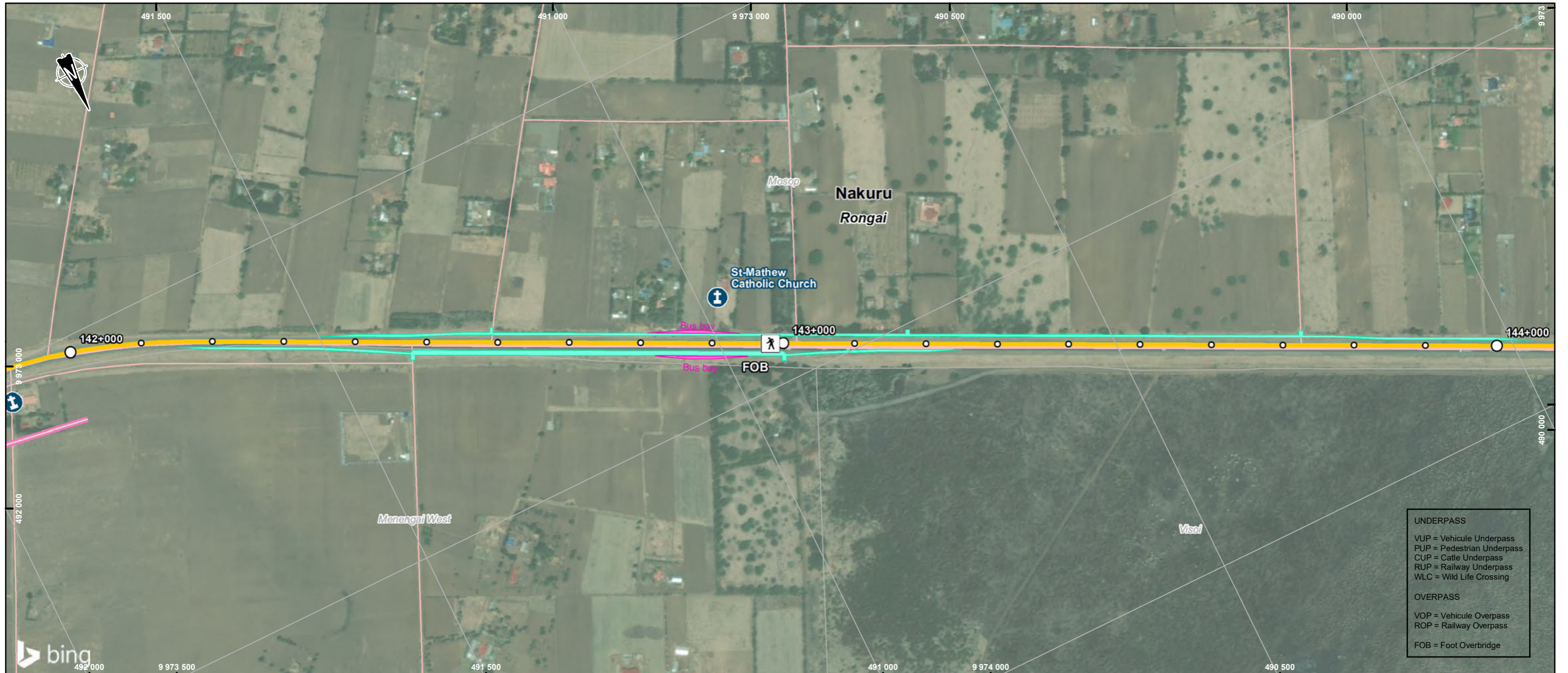
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WGS84, TM 36 SE (EPSG 32766)

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Preparation : C. Abdel-Malek
Drawing : A. Monnard
Validation : G. Pothier
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UNDERPASS
 VJP = Vehicle Underpass
 PJP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Foot Overbridge
- Noise Berm *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitives Sites**
- Religious Institution



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-7

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

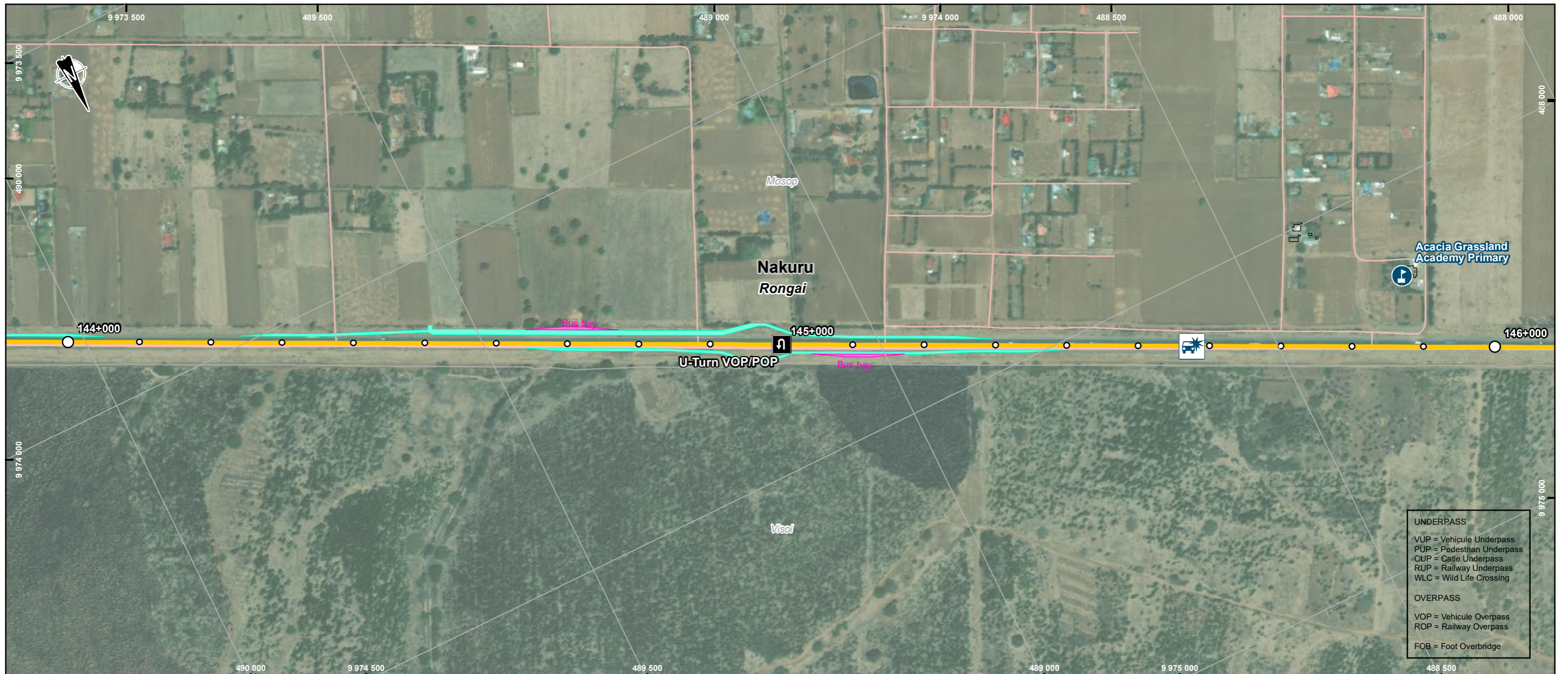
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2022-01-21

Preparation : C. Abdel-Malek
 Drawing : A. Monnard
 Validation : G. Pothier
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UNDERPASS
 VUP = Vehicle Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- U-turn
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Accident Spot
- School Institution
- Buildings



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-8

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

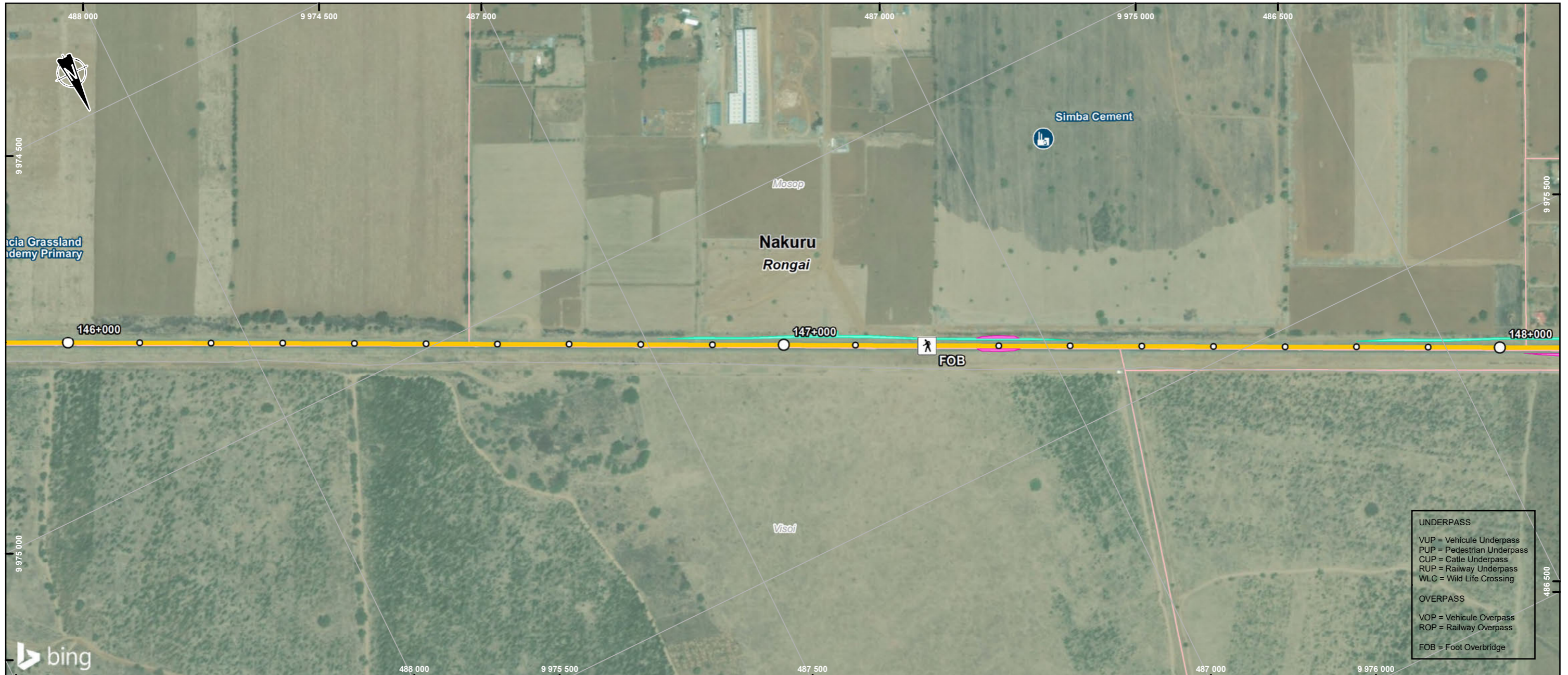
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2022-01-25

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Foot Overbridge
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Industry



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-9

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Underpass
- Run-off Water Treatment Equipment
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse
- Waterbody

Human Environment

Sensitives Sites

- Religious Institution
- School Institution
- Flooding area

- UNDERPASS**
- VJP = Vehicle Underpass
 - PJP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-10

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

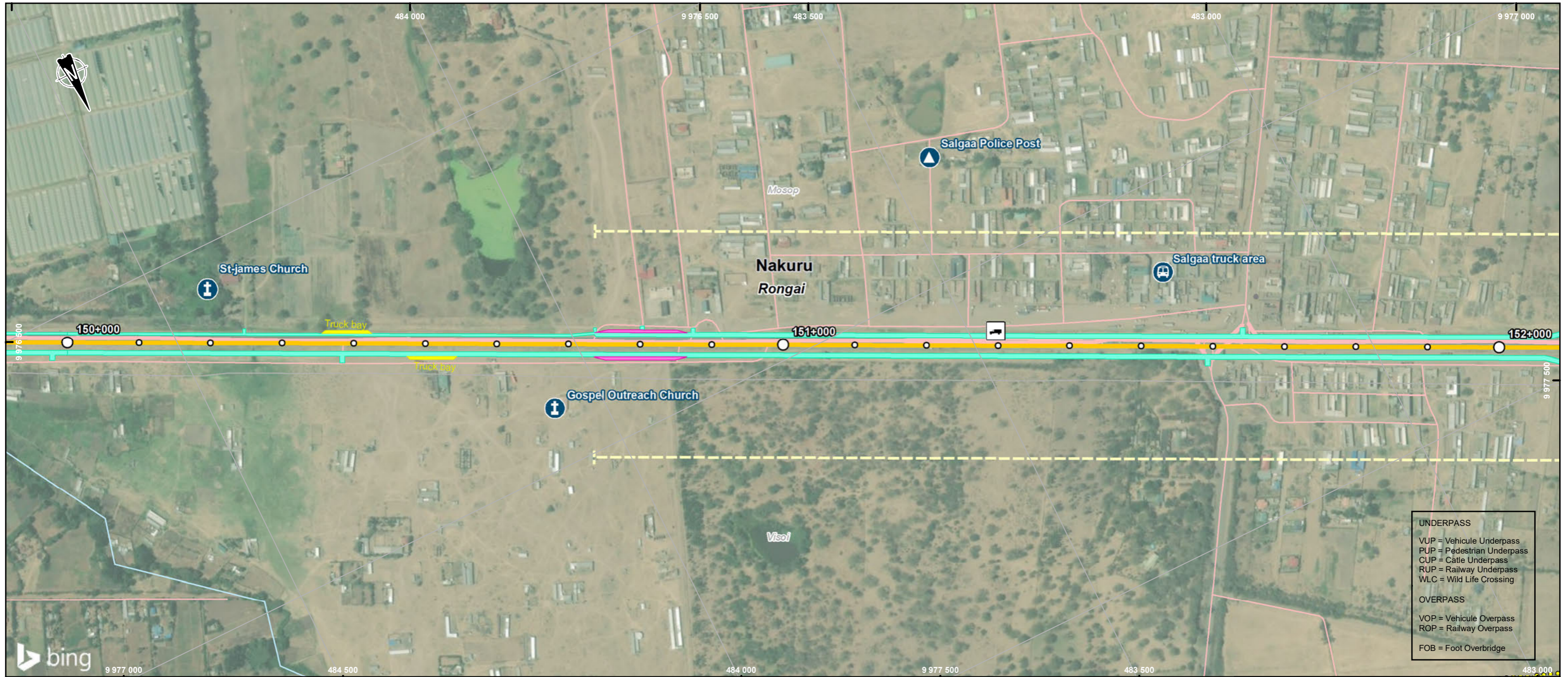
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WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Access to future truck park
- Lighting Urban *
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

Sensitives Sites

- Public Institution
- Religious Institution
- Transport

Existing Utilities

- Power Transmission Line



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-11

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

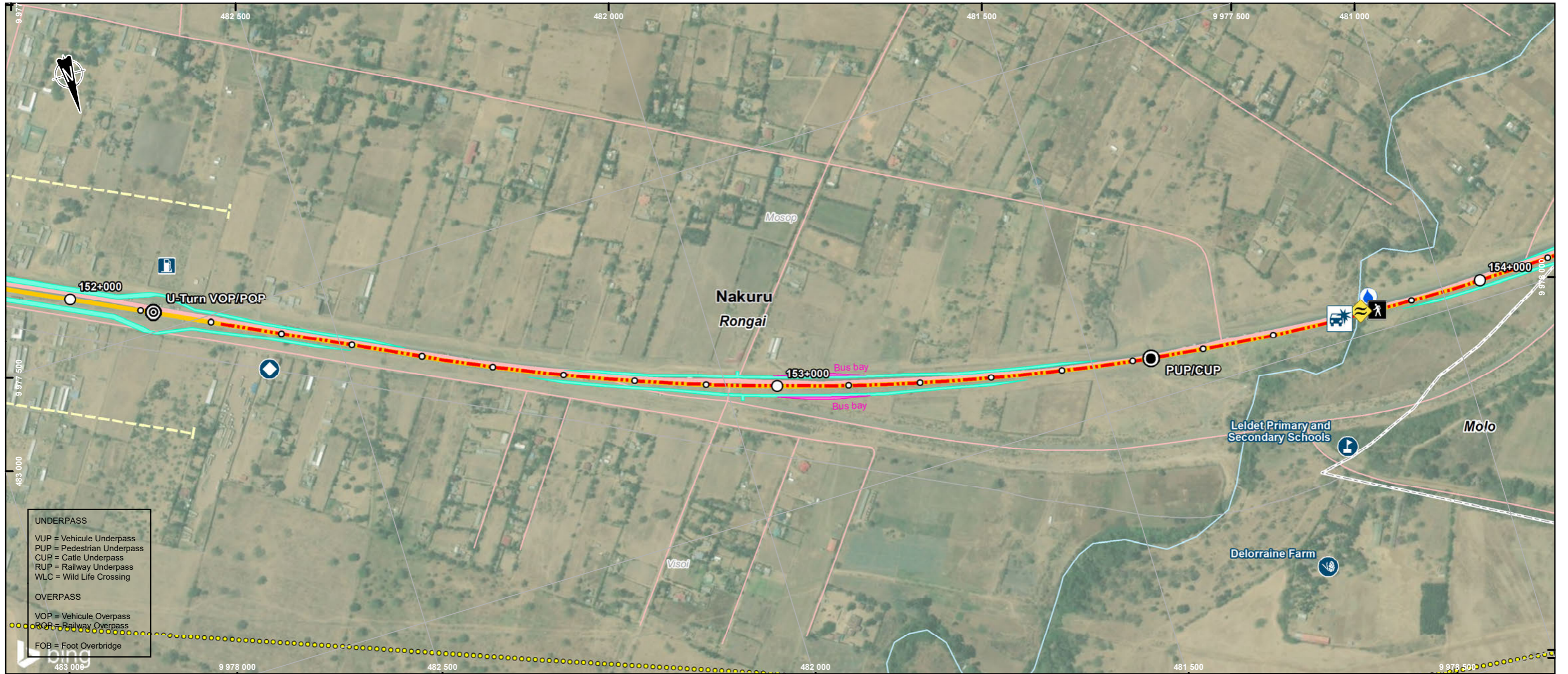
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WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation : C. Abdel-Malek
Drawing : A. Monnard
Validation : G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 4 - Njoro Turnoff – Mau Summit

- Structural Project**
- Overpass
 - Underpass
 - Pedestrian facility
 - Run-off Water Treatment Equipment
 - Lighting Urban *
 - Bus Bay
 - Service Lane
- Wildlife Crossing**
- Waterway Crossing

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Farming activities
 - Gas Station
 - School Institution
 - Stop Over
 - Accident Zone

- Existing Utilities**
- Power Transmission Line

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-12

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

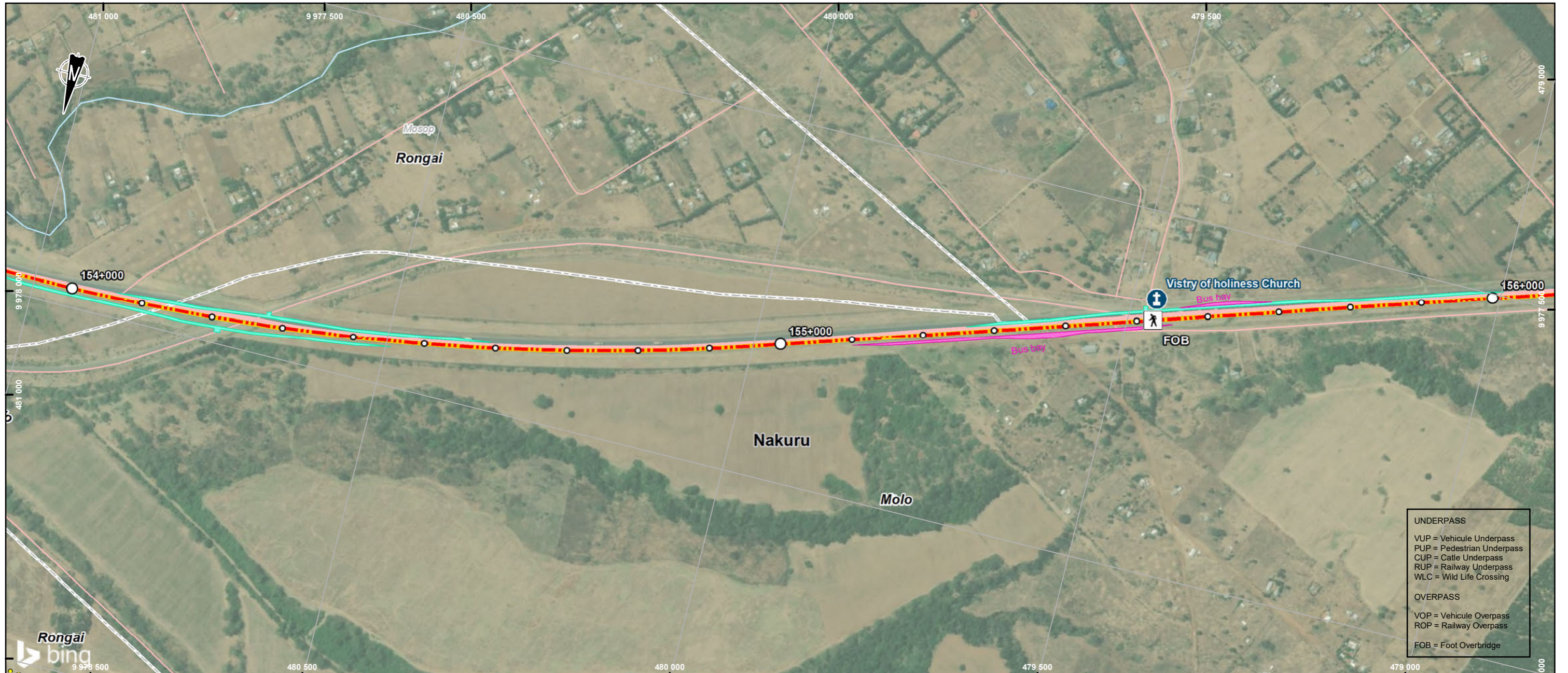
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2022-01-25

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Foot Overbridge
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitive Sites**
- Religious Institution
 - Accident Zone

Existing Utilities

- Power Transmission Line

- UNDERPASS**
- VJP = Vehicle Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-13

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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UNDERPASS
 VJP = Vehicle Underpass
 PJP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitive Sites**
- Industry
 - Accident Zone



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-14

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

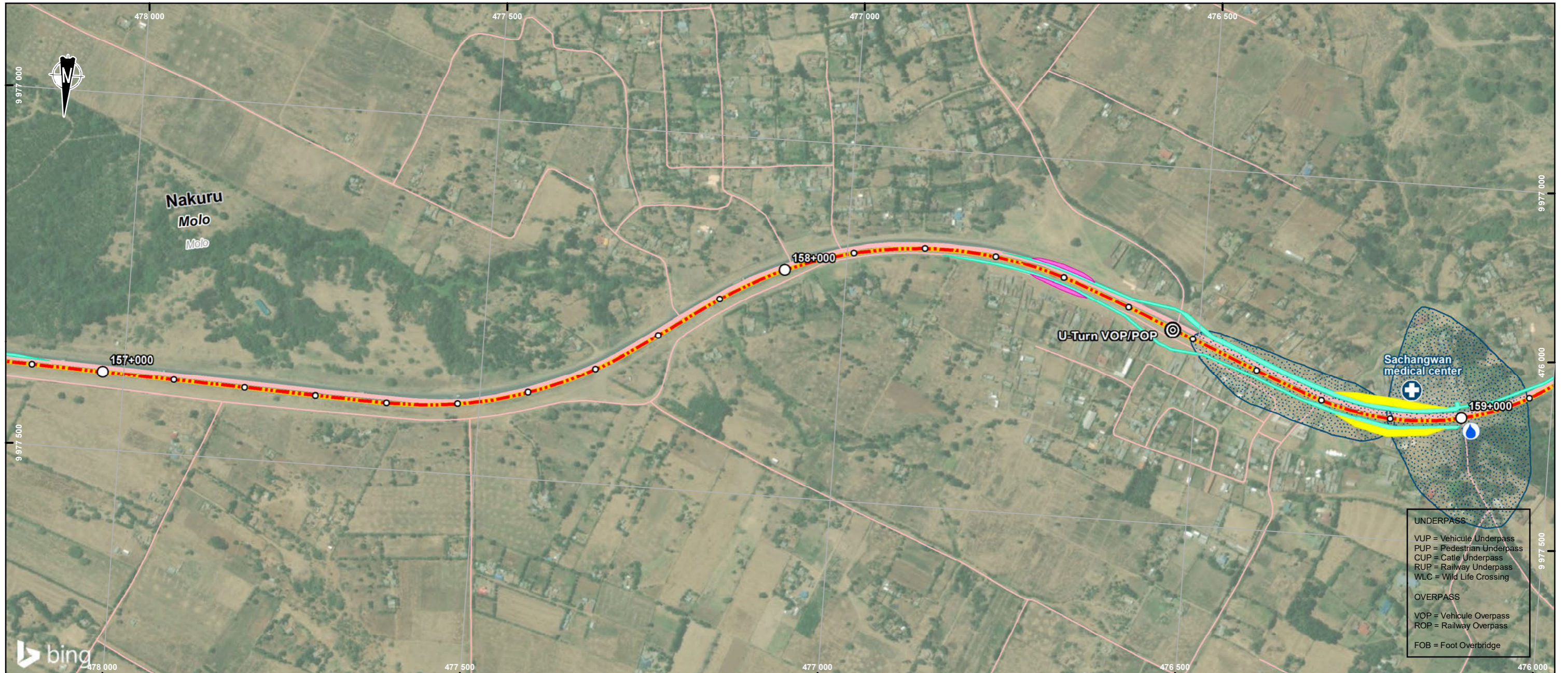
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2022-01-21

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Overpass
- Run-off Water Treatment Equipment
- Bus Bay
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

- Sensitive Sites**
- Health Facilities
 - Accident Zone
 - Flooding area



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-15

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

0 55 110 m
WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Quarries considered

- Rejected

Structural Project Elements

- Overpass
- Underpass
- Run-off Water Treatment Equipment
- Climbing Lane *
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Farming activities
- Health Facilities
- School Institution

Accident Zone

- Accident Zone

Flooding area

- Flooding area

Point of Interest

- School, College or Kindergarden
- Toilet
- Buildings



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-16

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

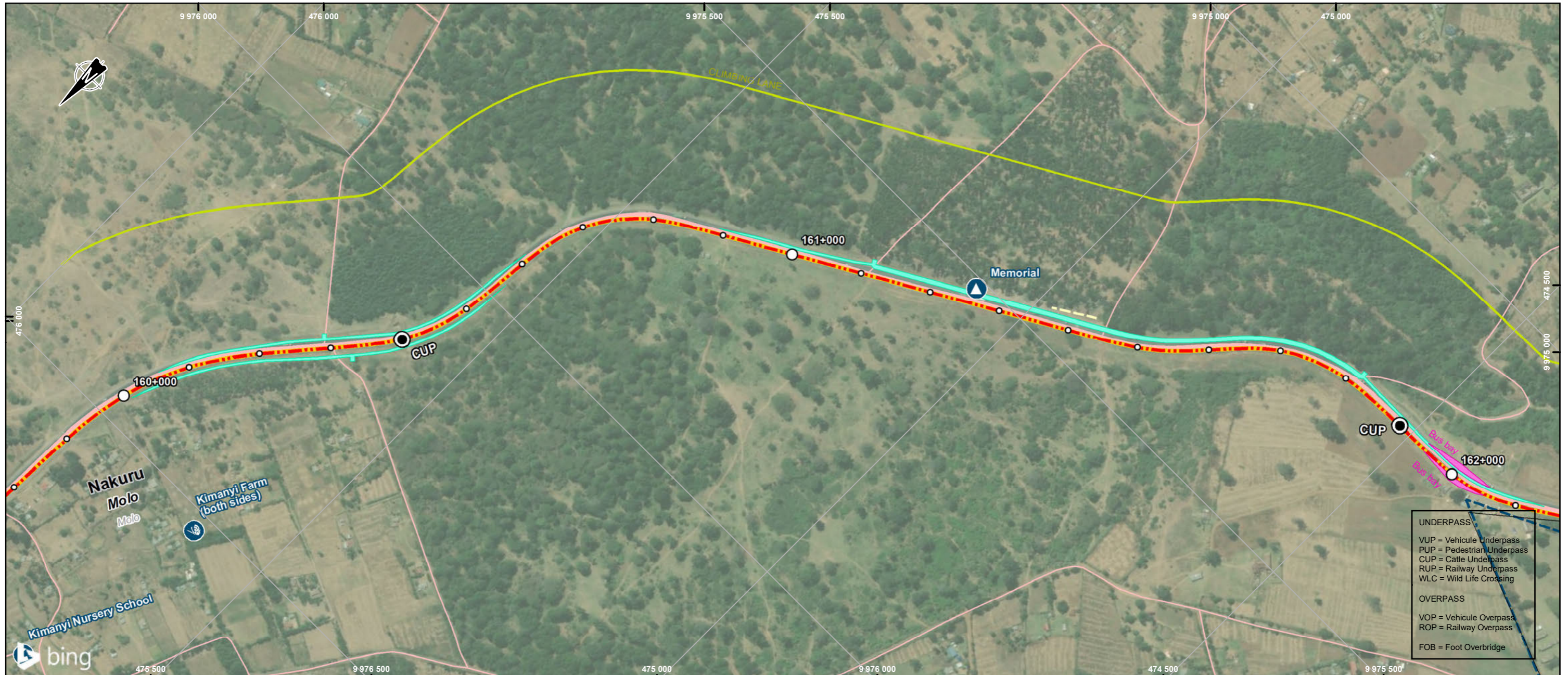
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WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Underpass
- Lighting Urban *
- Climbing Lane *
- Bus Bay
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Farming activities
- Public Institution
- School Institution
- Accident Zone
- Sensitive Site
- Buildings

- UNDERPASS**
- VJP = Vehicle Underpass
 - PJP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-17

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

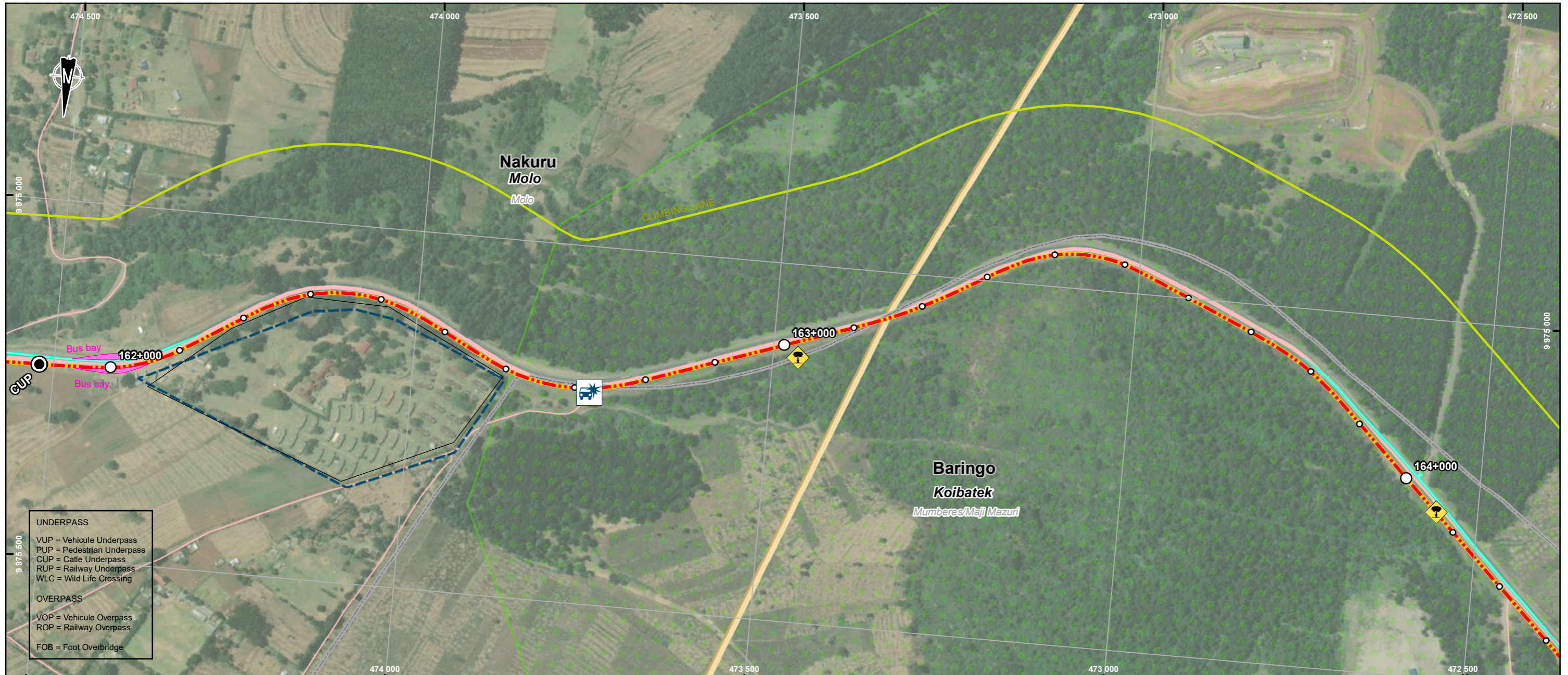
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WGS84, TM 36 SE (EPSG 32766)

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Preparation : C. Abdel-Malek
Drawing : A. Monnard
Validation : G. Pothier
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UNDERPASS
 VUP = Vehicle Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project

- Underpass
- Climbing Lane *
- Bus Bay
- Service Lane

Wildlife Crossing

- Canopy Bridges (exact location to be validated)

Biophysical Environment

- Watercourse

Protected Areas

National Level

- Forest Reserve

Human Environment

Sensitive Sites

- Accident Spot
- Accident Zone
- Sensitive Site
- Buildings

Landuse (OSM)

- Forest



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-18

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

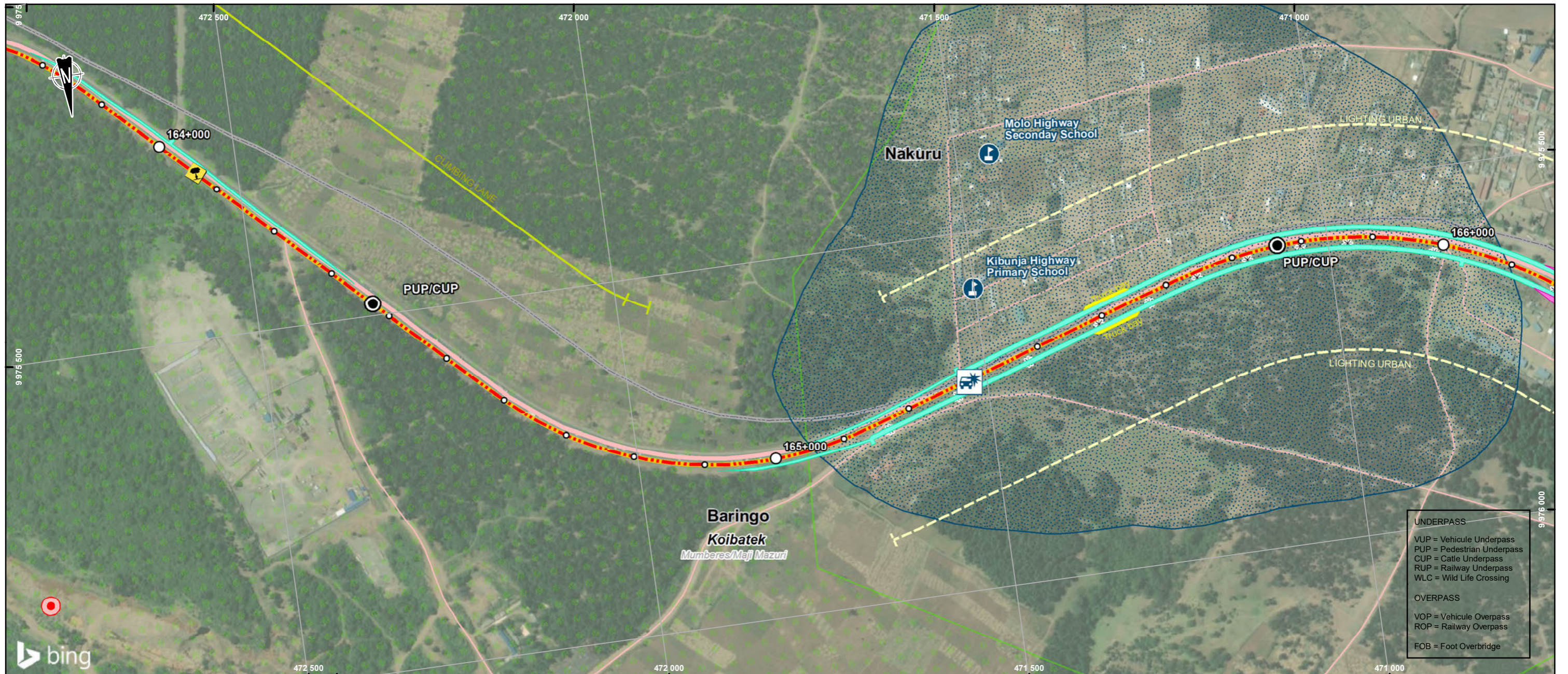
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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 4 - Njoro Turnoff – Mau Summit
- Quarries considered**
- Rejected

Structural Project Elements

- Underpass
- Lighting Urban *
- Climbing Lane *
- Bus Bay
- Service Lane
- Truck Bay
- Wildlife Crossing**
- Canopy Bridges (exact location to be validated)

Biophysical Environment

- Watercourse
- Protected Areas**
- National Level**
- Forest Reserve

Human Environment

- Sensitive Sites**
- Accident Spot
- School Institution
- Accident Zone
- Flooding area

Utility

- Existing Utilities**
- Lamp Post
- Landuse (OSM)**
- Forest



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-19

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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Preparation: C. Abdel-Malek
Drawing: A. Monnard
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Overpass
- Lighting Urban *
- Bus Bay
- Service Lane
- Wildlife Crossing**
- Canopy Bridges (exact location to be validated)
- Underpass

Biophysical Environment

- Watercourse
- Protected Areas**
- National Level**
- Forest Reserve

Human Environment

- Sensitive Sites**
- Accident Spot
- Accident Zone
- Flooding area

Utility

- Existing Utilities**
- Lamp Post
- Landuse (OSM)**
- Forest

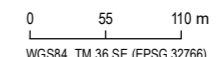
- UNDERPASS**
- VJP = Vehicule Underpass
 - PJP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-20

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12



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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)

- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Foot Overbridge
- Run-off Water Treatment Equipment
- Climbing Lane *
- Service Lane

Biophysical Environment

- Watercourse
- Protected**
- National Level**
- Forest Reserve

Human Environment

- Sensitives Sites**
- Accident Spot
- Accident Zone
- Landuse (OSM)**
- Forest

- UNDERPASS**
- VUP = Vehicule Underpass
 - PUP = Pedestrian Underpass
 - CUP = Calle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
- FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-21

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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UNDERPASS
 VUP = Vehicule Underpass
 PUP = Pedestrian Underpass
 CUP = Calle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 4 - Njoro Turnoff – Mau Summit

- Structural Project Elements**
- Underpass
 - Foot Overbridge
 - Run-off Water Treatment Equipment
 - Climbing Lane *
 - Bus Bay
 - Service Lane
 - Truck Bay

- Biophysical Environment**
- Watercourse
- Protected**
- National Level**
- Forest Reserve

- Human Environment**
- Sensitives Sites**
- Health Facilities
 - Market and shopping area
 - Religious Institution
 - School Institution
 - Accident Zone
 - Point of Interest
 - Drinking Water or Water Well
 - Toilet

- Utility**
- Existing Utilities**
- Lamp Post
 - Buildings
- Landuse (OSM)**
- Residential

VINCI **meridiam**
 INVESTING FOR THE COMMUNITY

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-22

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

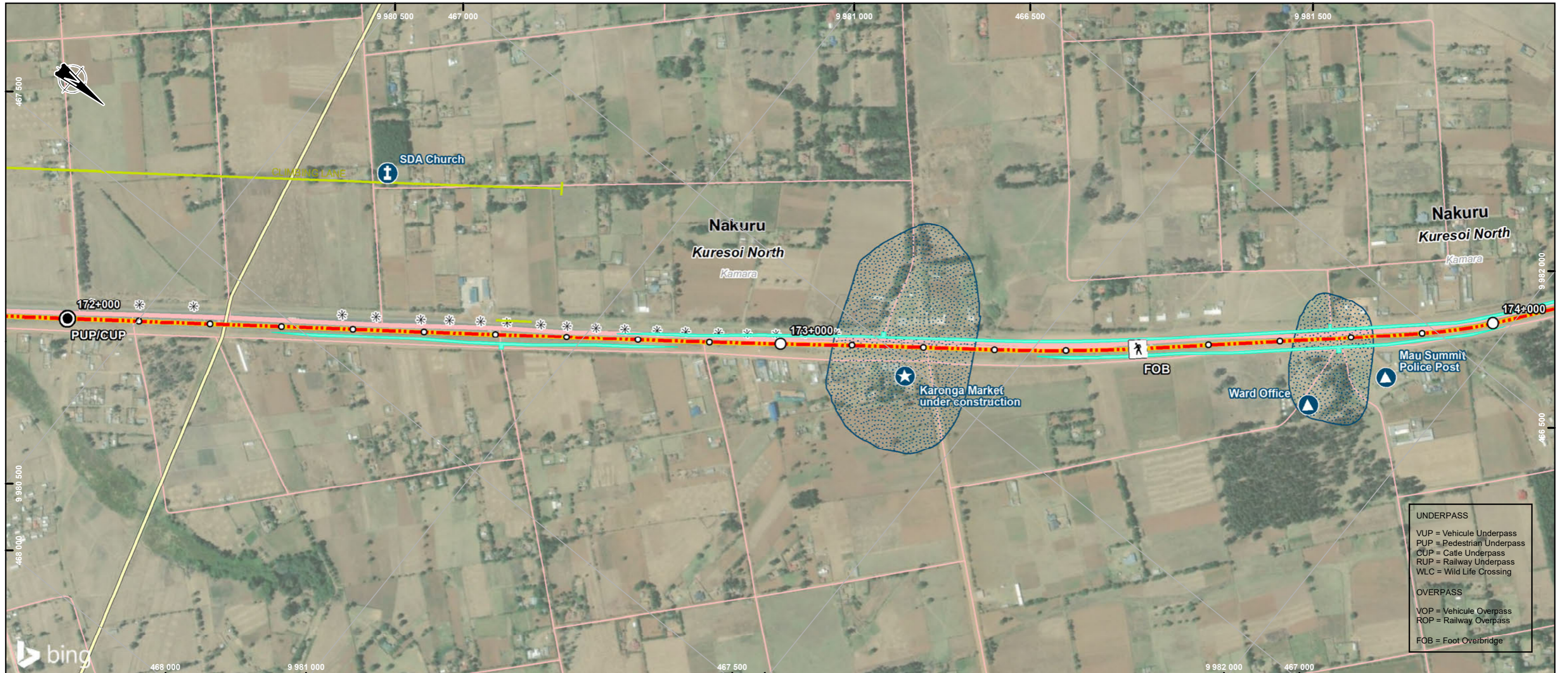
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2022-01-27

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
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wsp

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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 4 - Njoro Turnoff – Mau Summit

Structural Project Elements

- Underpass
- Foot Overbridge
- Climbing Lane *
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Sensitive Sites**
- Market and shopping area
 - Public Institution
 - Religious Institution
 - Accident Zone
 - Flooding area

Future Developments

- Karonga Market under construction

Utility

- Existing Utilities**
- Lamp Post
 - Pipeline crossing

- UNDERPASS**
- VUP = Vehicule Underpass
 - PUP = Pedestrian Underpass
 - CUP = Calle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-23

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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WGS84, TM 36 SE (EPSG 32766)

2022-01-27

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 4 - Njoro Turnoff – Mau Summit

- Structural Project Elements**
- Underpass
 - Bus bay shelter
 - Foot Overbridge
 - Round about
 - Run-off Water Treatment Equipment
 - Service Lane

- Biophysical Environment**
- Watercourse
 - Wetland
- Protected Areas**

- Human Environment**
- Sensitive Sites**
- Public Institution
 - Sensitive Site
- Accident Zone**
- Accident Zone
- Flooding area**
- Flooding area
- Worship Centers**
- Christian
 - Muslim

- Utility**
- Existing Utilities**
- Lamp Post
- Buildings**
- Buildings
- Landuse (OSM)**
- Commercial
 - Farmland
 - Forest
 - Scrub

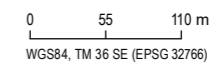
- UNDERPASS**
- VUP = Vehicule Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
- FOB = Foot Overbridge**

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 1 - Dualling of A8 Highway Section 4 - Njoro Turnoff – Mau Summit Sheet 4-24

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



2022-01-26

Preparation : C. Abdel-Malek
 Drawing : A. Monnard
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UNDERPASS
 VUP = Vehicule Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi - Naivasha
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 5 - Rironi - Mai Mahiu

- Structural Project Elements**
- Underpass
 - At-grade crossing
 - Foot Overbridge
 - Noise Barrier *
 - Noise Berm *
 - Service Lane
 - Bus Bay
 - Truck Bay

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitives Sites**
- School Institution
 - Flooding area
- Point of Interest**
- Drinking Water or Water Well
- Worship Centers**
- Christian

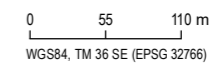
- Utility**
- Existing Utilities**
- Lamp Post

VINCI **meridiam**
 INVESTING FOR THE COMMUNITY

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi - Mai Mahiu Sheet 5-1

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



2022-01-21

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 5 - Rironi – Mai Mahiu

- Structural Project Elements**
- Watercourse
- Protected Areas**
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- Human Environment**
- Flooding area
 - Point of Interest**
 - Police
- Utility**
- Lamp Post
- Existing Utilities**
- Forest

- UNDERPASS**
- VUP = Vehicule Underpass
 - FUP = Footbridge Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge

VINCI **meridiam**

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi – Mai Mahiu Sheet 5-2

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

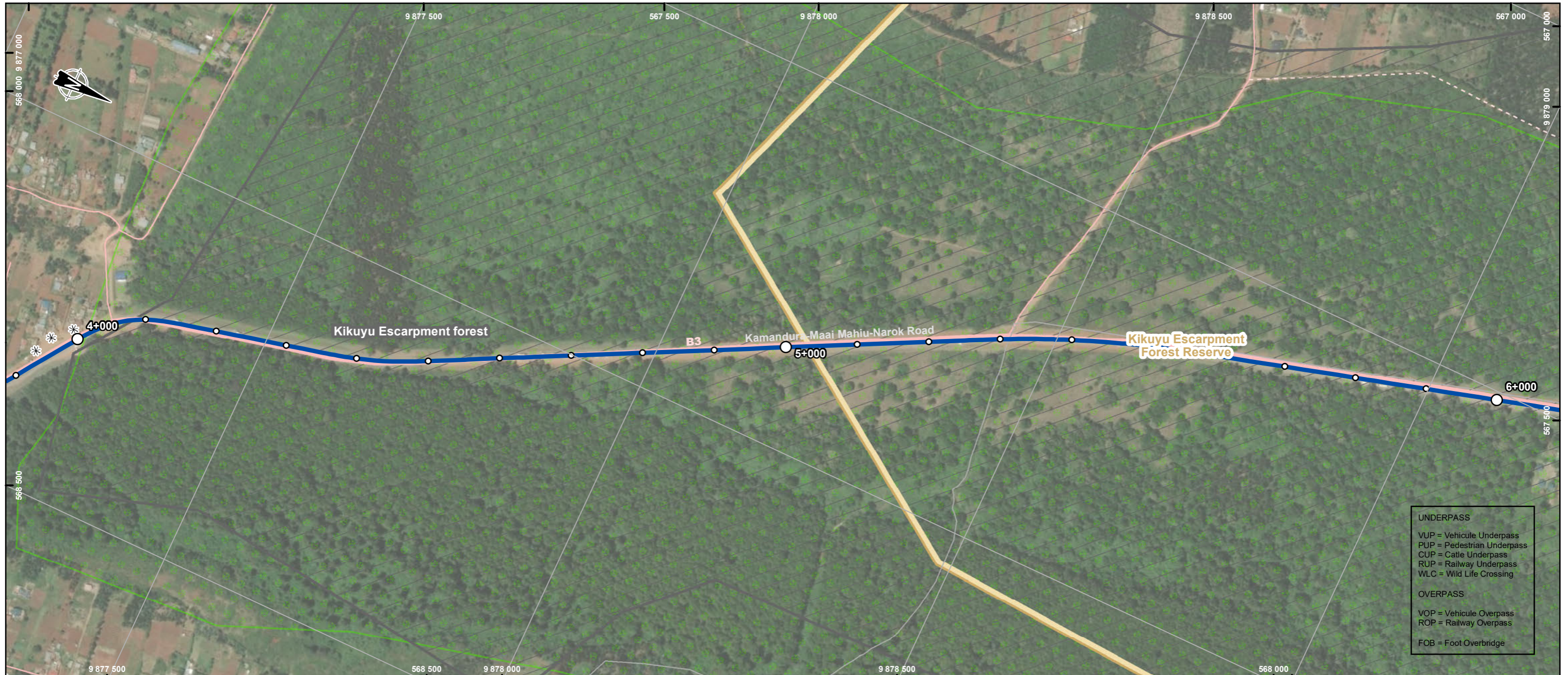
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2022-01-21

Preparation : C. Abdel-Malek
 Drawing : A. Monnard
 Validation : G. Pothier
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UNDERPASS
VJP = Vehicule Underpass
PJP = Pedestrian Underpass
CJP = Cattle Underpass
RJP = Railway Underpass
WLC = Wild Life Crossing
OVERPASS
VOP = Vehicule Overpass
ROP = Railway Overpass
FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 5 - Rironi – Mai Mahiu

- Structural Project Elements**
- Watercourse
- Biophysical Environment**
- Protected Areas**
- National Level**
- Forest Reserve
 - Important Bird Area (IBA) and Key Biodiversity Area (KBA)

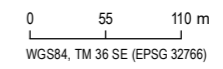
- Human Environment**
- Utility**
- Existing Utilities**
- Lamp Post
- Landuse (OSM)**
- Forest

VINCI **meridiam**

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi – Mai Mahiu Sheet 5-3

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



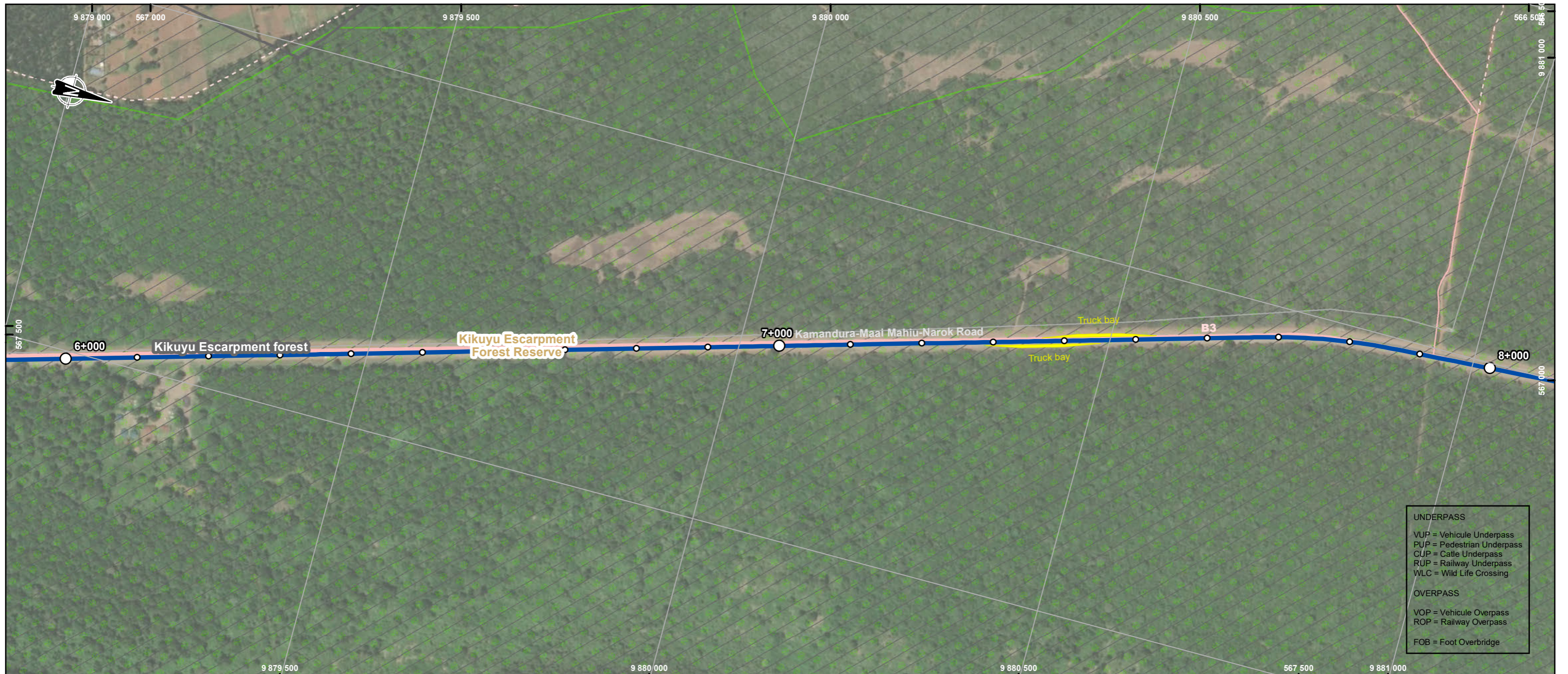
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 Drawing: A. Monnard
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Primary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 5 - Rironi – Mai Mahiu

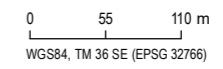
- Structural Project Elements**
- Truck Bay

- Biophysical Environment**
- Watercourse
- Protected Areas**
- National Level**
- Forest Reserve
 - Important Bird Area (IBA) and Key Biodiversity Area (KBA)

- Human Environment**
- Landuse (OSM)**
- Forest

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi – Mai Mahiu Sheet 5-4

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



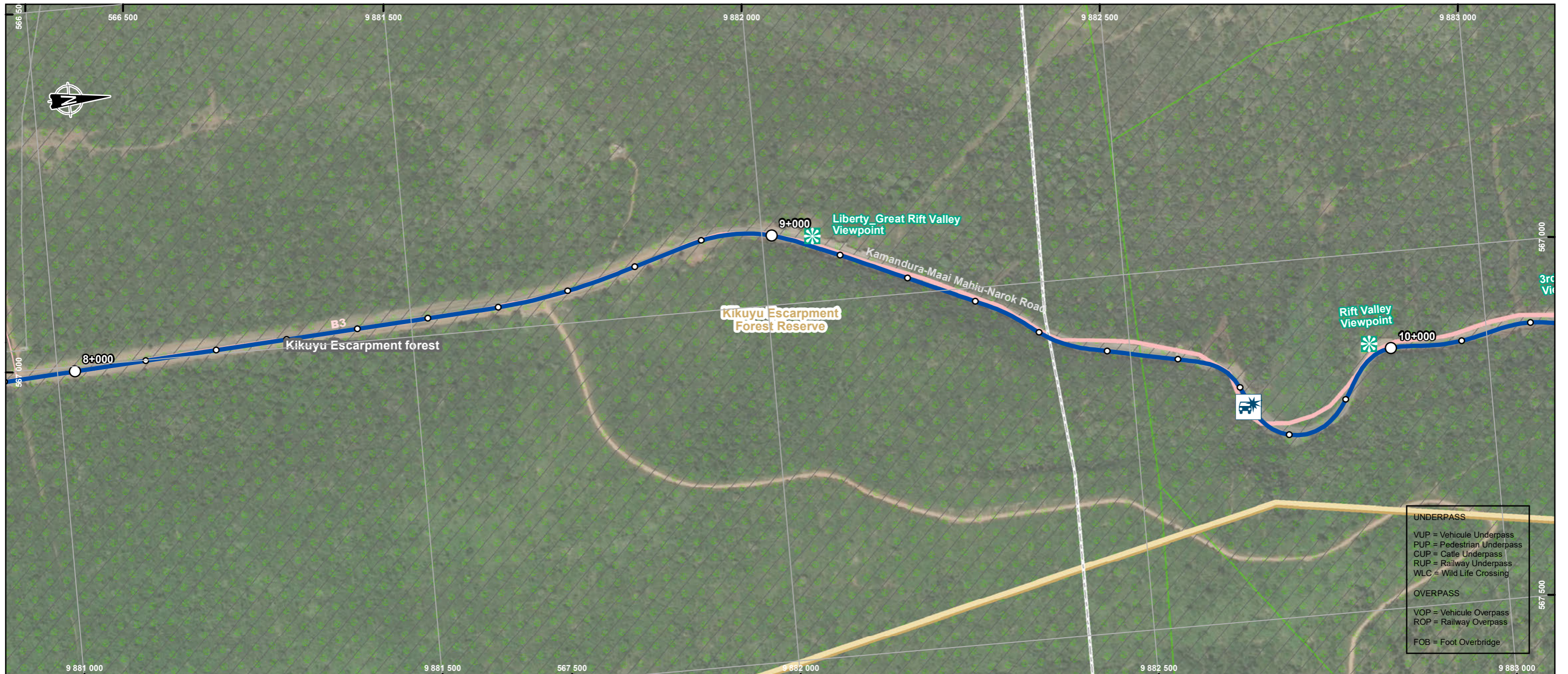
2022-01-21

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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UNDERPASS	
VUP	= Vehicule Underpass
PUP	= Pedestrian Underpass
CUP	= Cattle Underpass
RUP	= Railway Underpass
WLC	= Wild Life Crossing
OVERPASS	
VOP	= Vehicule Overpass
ROP	= Railway Overpass
FOB	= Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 5 - Rironi – Mai Mahiu

Structural Project Elements

- Watercourse

Biophysical Environment

- Watercourse
- Protected**
- National Level**
- Forest Reserve
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

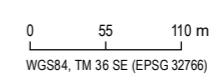
- Sensitives Sites**
- Accident Spot
- Point of Interest**
- Archaeological, Attraction, Monument or Viewpoint
- Landuse (OSM)**
- Forest



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi – Mai Mahiu Sheet 5-5

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12



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Drawing: A. Monnard
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 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 5 - Rironi – Mai Mahiu

Structural Project Elements

Biophysical Environment

- Watercourse

Protected

- National Level Forest Reserve
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

Point of Interest

- Archaeological, Attraction, Monument or Viewpoint

Landuse (OSM)

- Forest



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi – Mai Mahiu Sheet 5-6

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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Preparation: C. Abdel-Malek
 Drawing: A. Monnard
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 5 - Rironi – Mai Mahiu

Structural Project Elements

- At-grade crossing

Biophysical Environment

- Watercourse

Protected Areas

- Forest Reserve
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

Landuse (OSM)

- Forest

- UNDERPASS**
- VUP = Vehicule Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicule Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi – Mai Mahiu Sheet 5-7

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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UNDERPASS

VUP = Vehicule Underpass
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 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS

VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 5 - Rironi – Mai Mahiu

Structural Project Elements

- At-grade crossing
- Truck Bay

Biophysical Environment

- Watercourse

Protected Areas

- National Level**
- Forest Reserve
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

- Utility**
- Existing Utilities**
- Power Transmission Line
- Pylon
- Landuse (OSM)**
- Forest



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi – Mai Mahiu Sheet 5-8

Sources :
 ESRI World Imagery
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 American Red Cross, Administrative boundaries, 2019
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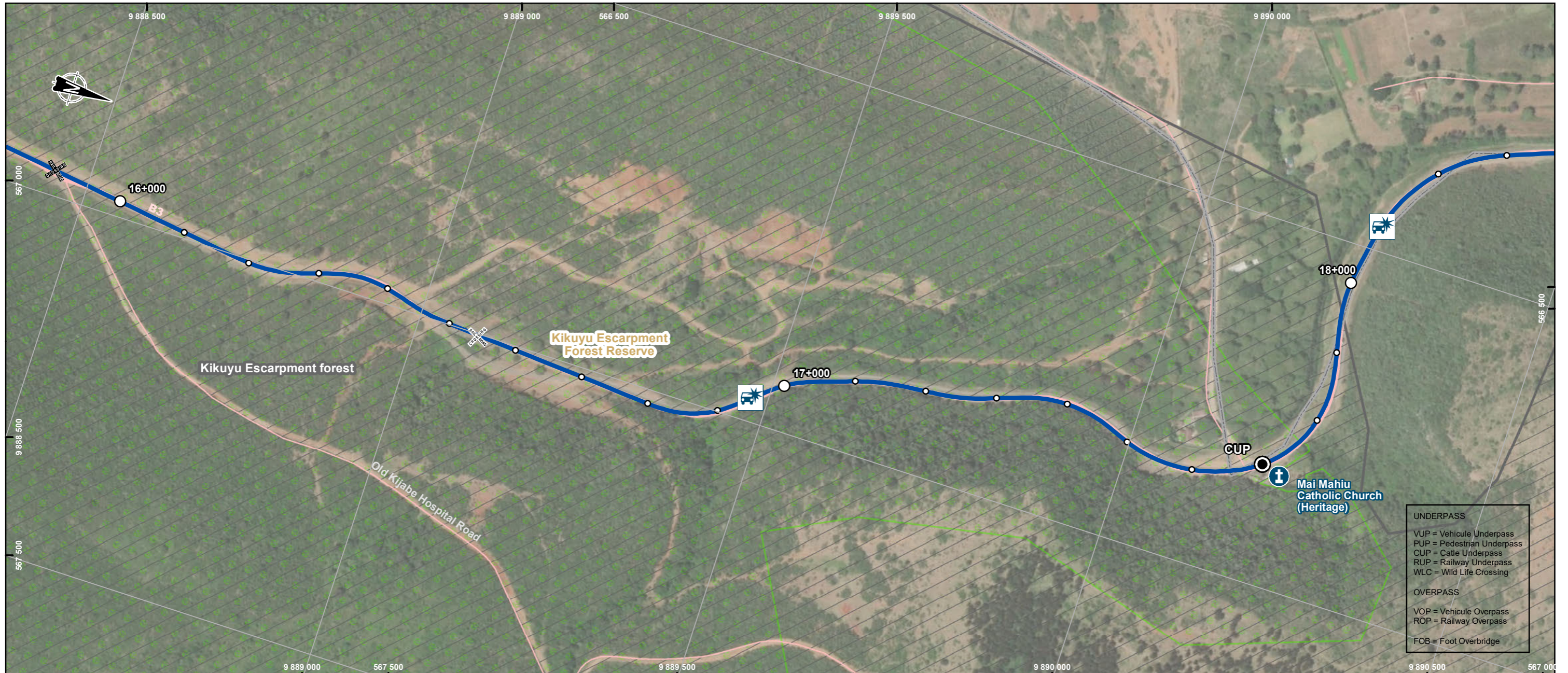
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Preparation : C. Abdel-Malek
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UNDERPASS	
VUP	Vehicle Underpass
PUP	Pedestrian Underpass
CUP	Cattle Underpass
RUP	Railway Underpass
WLC	Wild Life Crossing
OVERPASS	
VOP	Vehicle Overpass
ROP	Railway Overpass
FOB	Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 5 - Rironi – Mai Mahiu

Structural Project Elements

- Underpass
- At-grade crossing

Biophysical Environment

- Watercourse

Protected Areas

- National Level**
- Forest Reserve
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

Sensitive Sites

- Accident Spot
- Religious Institution

Landuse (OSM)

- Forest



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi – Mai Mahiu Sheet 5-9

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Primary
- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 5 - Rironi – Mai Mahiu
- 6 - Mai Mahiu - Naivasha

Structural Project Elements

- At-grade crossing
- Service Lane

Biophysical Environment

- Watercourse

Protected Areas

- National Level**
- Forest Reserve
- Important Bird Area (IBA) and Key Biodiversity Area (KBA)

Human Environment

Sensitive Sites

- Accident Spot

Future Developments

- B7 Road redesign and reconstruction Project

Utility

Existing Utilities

- Lamp Post

- Substation
- Buildings

Landuse (OSM)

- Forest



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 5 - Rironi – Mai Mahiu Sheet 5-10

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 6 - Mai Mahiu - Naivasha

- Structural Project Elements**
- Underpass
 - At-grade crossing
 - Foot Overbridge
 - Run-off Water Treatment Equipment
 - Bus Bay
 - Service Lane
 - Truck Bay

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Market and shopping area
 - Religious Institution
 - School Institution
 - Flooding area
- Utility**
- Existing Utilities**
- Lamp Post
 - Buildings

- UNDERPASS**
- VUP = Vehicle Underpass
 - PUP = Pedestrian Underpass
 - CUP = Cattle Underpass
 - RUP = Railway Underpass
 - WLC = Wild Life Crossing
- OVERPASS**
- VOP = Vehicle Overpass
 - ROP = Railway Overpass
 - FOB = Foot Overbridge

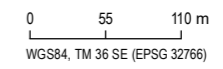
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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-1

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12



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 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project

Biophysical Environment

- Watercourse

Human Environment

- Flooding area

Future Developments

- Naivasha ICD-Longonot Railway Line Project



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-2

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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 Drawing : A. Monnard
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UNDERPASS
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 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project

- Foot Overbridge
- Bus Bay

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Accident Spot
- Religious Institution
- Sensitive Site

Future Developments

- Naivasha ICD-Longonot Railway Line Project

Utility

Existing Utilities

- Pylon
- Power Transmission Line



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-3

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

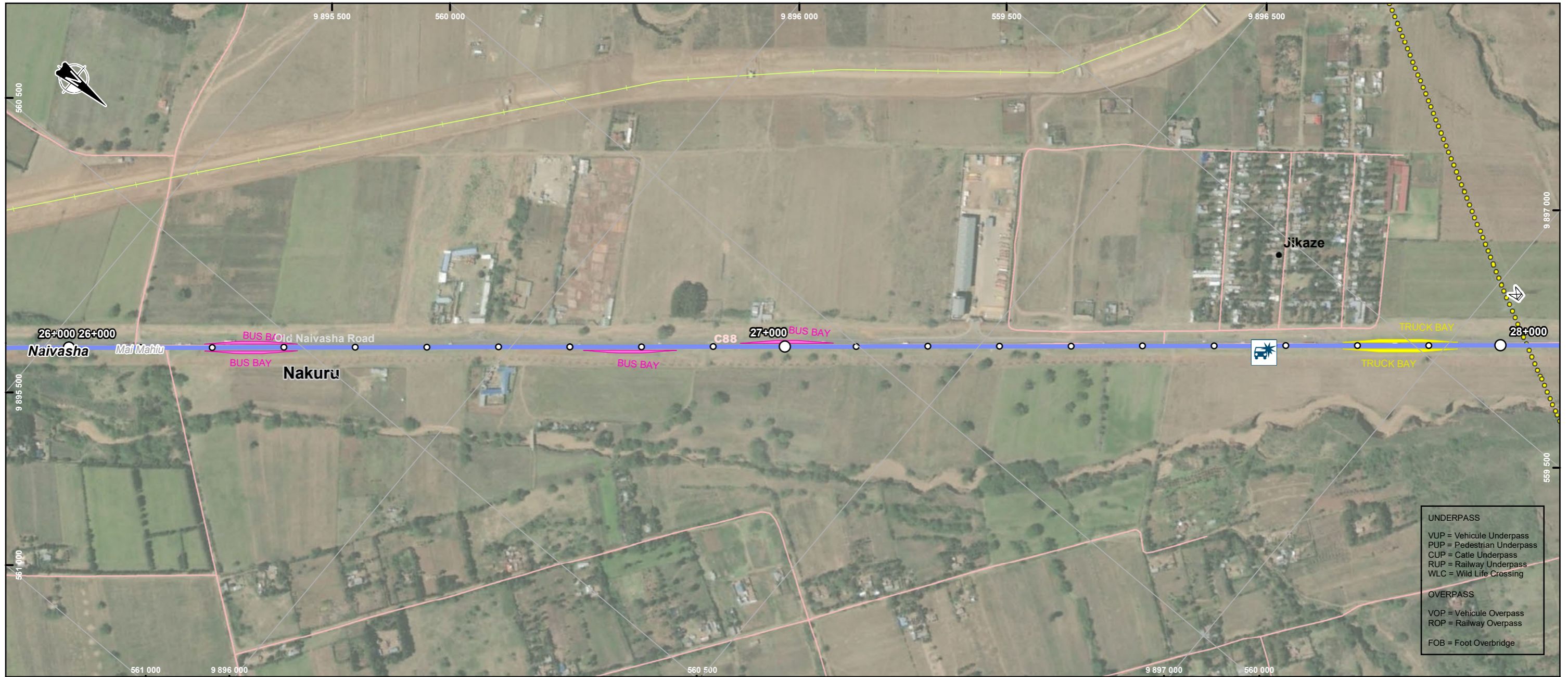
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 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project Elements

- Bus Bay
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

Sensitive Sites

- Accident Spot

Future Developments

- Naivasha ICD-Longonot Railway Line Project

Utility

Existing Utilities

- Pylon

Existing Utilities

- Power Transmission Line

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-4

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

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OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project

- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

Utility

Existing Utilities

- Pylon

Existing Utilities

- Power Transmission Line



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-5

Sources :
 ESRI World Imagery
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CUP = Cattle Underpass	
RUP = Railway Underpass	
WLC = Wild Life Crossing	
OVERPASS	
VOP = Vehicle Overpass	
ROP = Railway Overpass	
FOB = Foot Overbridge	

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)

- Transportation Network**
- Secondary
 - Tertiary, Residential or Unclassified

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 6 - Mai Mahiu - Naivasha

- Structural Project**
- At-grade crossing
 - Bus Bay

- Biophysical Environment**
- Watercourse

- Human Environment**
- Sensitive Sites**
- School Institution

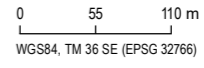
- Future Developments**
- Naivasha ICD-Longonot Railway Line Project



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-6

Sources :
ESRI World Imagery
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OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project Elements

- Underpass
- At-grade crossing
- Service Lane

Biophysical Environment

- Watercourse

Human Environment

- Flooding area

Future Developments

- Naivasha ICD-Longonot Railway Line Project



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-7

Sources :
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OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass

FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- +++++ railway
- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project Elements

- Underpass
- At-grade crossing
- Foot Overbridge
- Service Lane
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

Sensitives Sites

- Accident Spot
- Health Facilities
- Market and shopping area
- School Institution

Future Developments

- Naivasha ICD-Longonot Railway Line Project
- Buildings

Landuse (OSM)

- Farmyard

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-8

Sources :
 ESRI World Imagery
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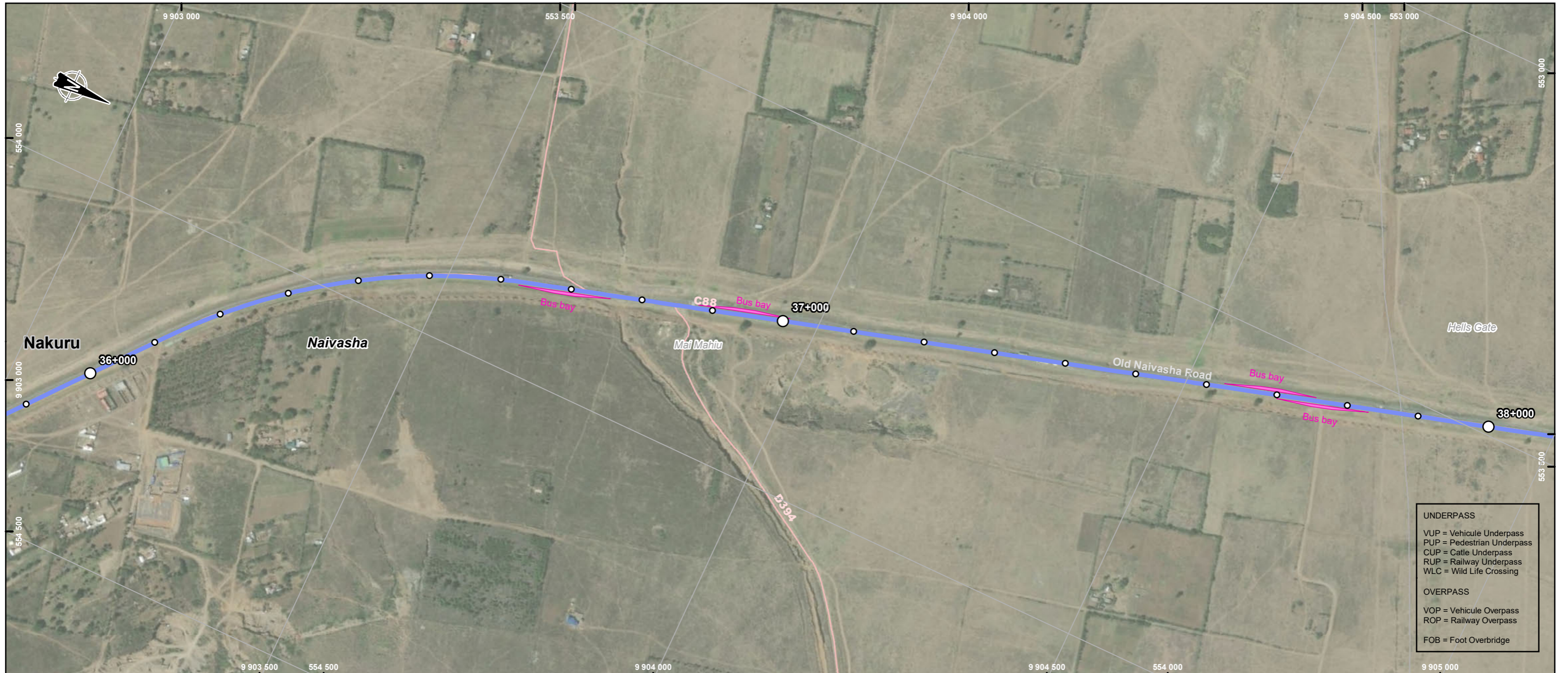
2022-01-21

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
 201_10312_00_WD_016_Atlas_A8South_Section6_220121.mxd



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UNDERPASS
 VUP = Vehicule Underpass
 PUP = Pedestrian Underpass
 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Secondary
- Tertiary, Residential or Unclassified

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project Elements

- Bus Bay

Biophysical Environment

- Watercourse

Human Environment



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-9

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

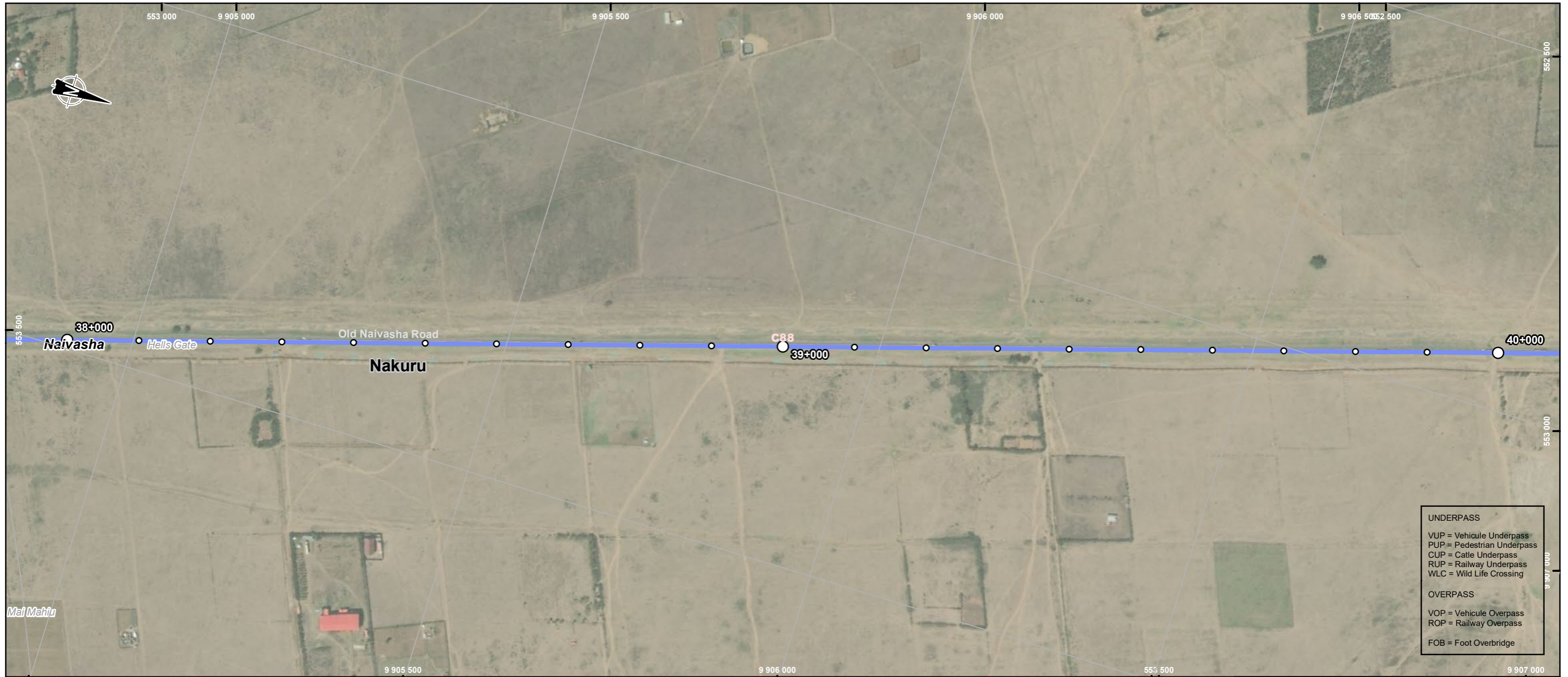
0 55 110 m
 WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation : C. Abdel-Malek
 Drawing : A. Monnard
 Validation : G. Pothier
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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- Secondary

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project

Biophysical Environment

- Watercourse

Human



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-10

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

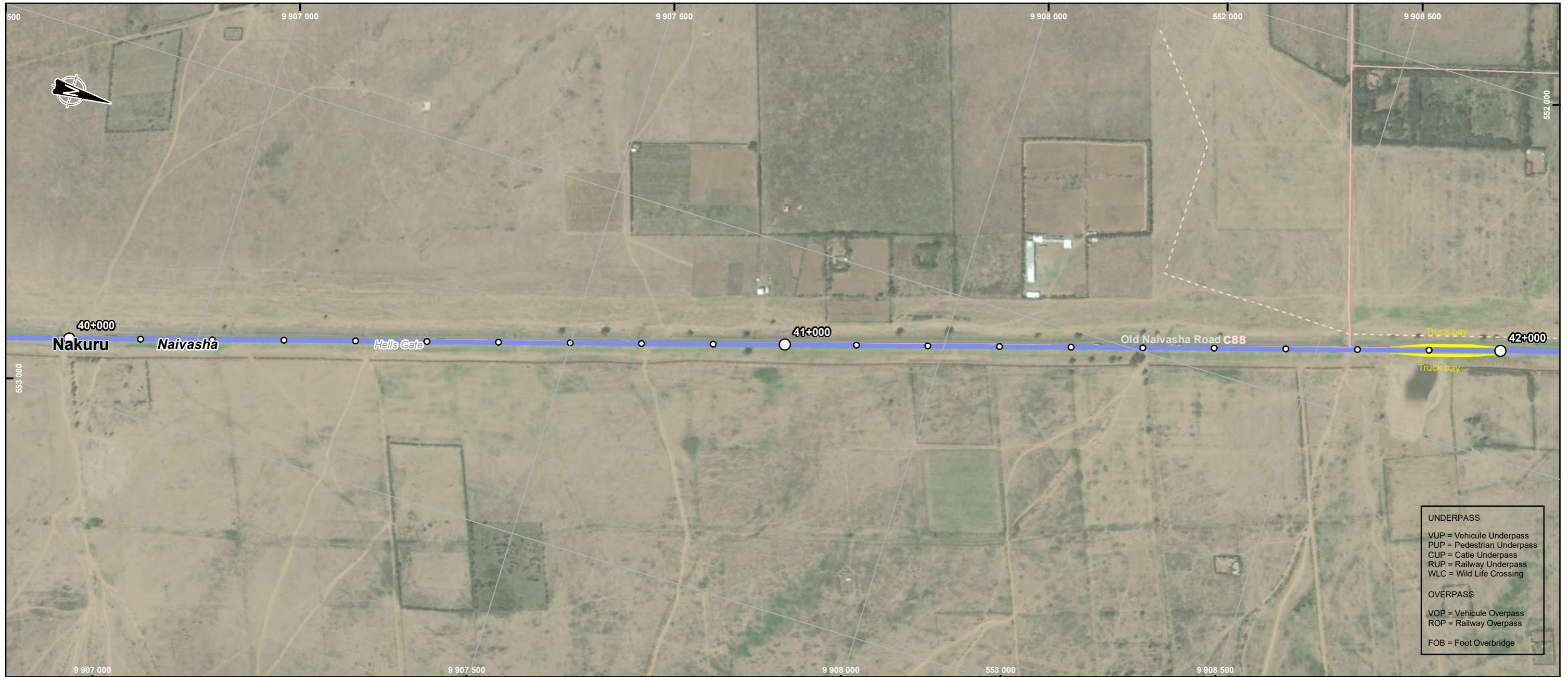
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WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
Drawing: A. Monnard
Validation: G. Pothier
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 CUP = Cattle Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 6 - Mai Mahiu - Naivasha

- Structural Project Elements**
- Truck Bay

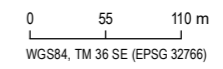
- Biophysical Environment**
- Watercourse

Human

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-11

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



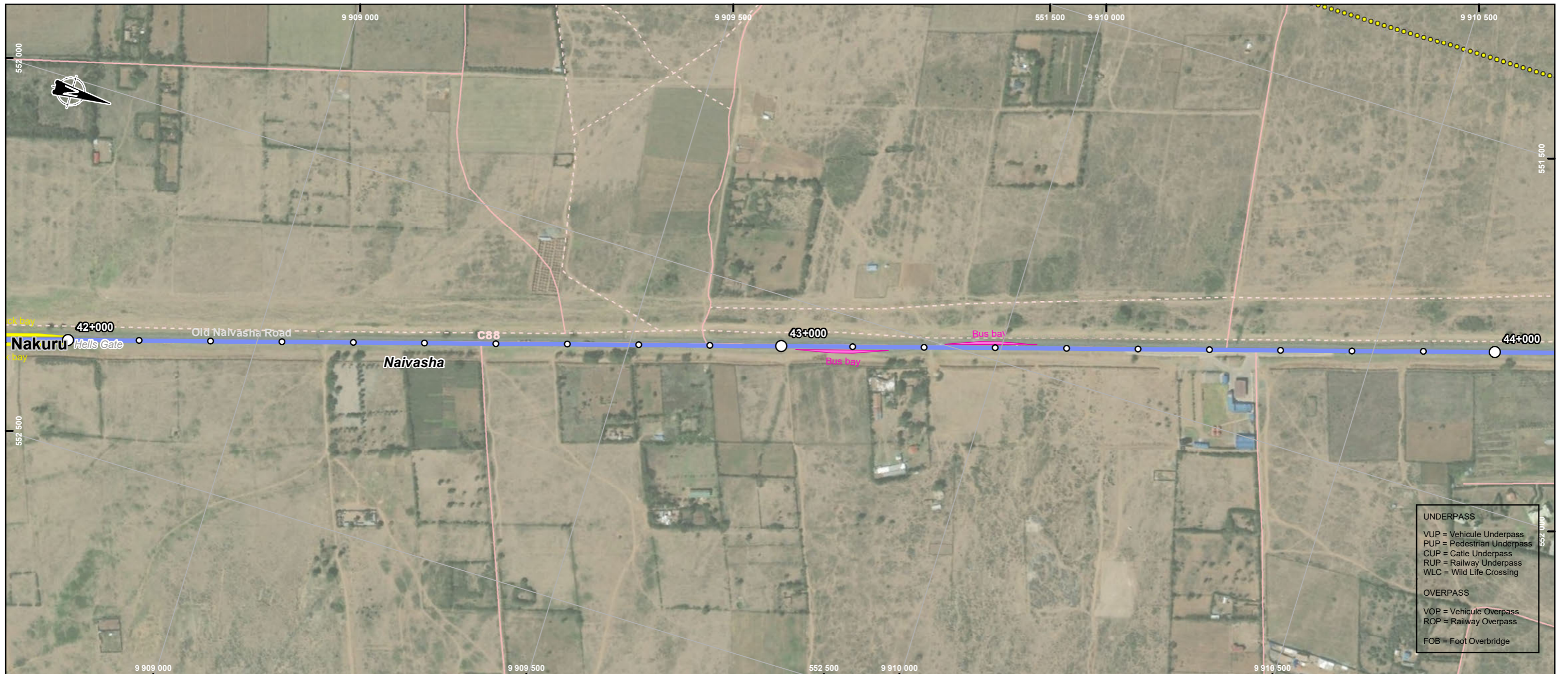
2022-01-21

Preparation : C. Abdel-Malek
 Drawing : A. Monnard
 Validation : G. Pothier
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OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 6 - Mai Mahiu - Naivasha

- Structural Project**
- Bus Bay
 - Truck Bay

- Biophysical Environment**
- Watercourse

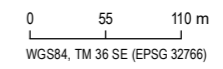
- Human**
- Existing Utilities**
- Power Transmission

VINCI **meridiam**

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-12

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
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 Bird Life International, IBA et KBA, 2020-12



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Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Secondary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project Elements

- Bus Bay

Biophysical Environment

- Watercourse

Human Environment

Utility

Existing Utilities

- Pylon
- Power Substation

Existing Utilities

- Power Transmission Line
- Substation
- Buildings



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-13

Sources :
ESRI World Imagery
Open Street Map, hydrography and roads
American Red Cross, Administrative boundaries, 2019
Protected Planet, Ramsar and World Heritage Site, 2020-12
Bird Life International, IBA et KBA, 2020-12

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Preparation : C. Abdel-Malek
Drawing : A. Monnard
Validation : G. Pothier
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 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicule Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Secondary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project

- Bus Bay
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

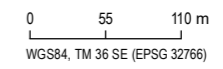
- Existing Utilities**
- Power Transmission Line



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-14

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



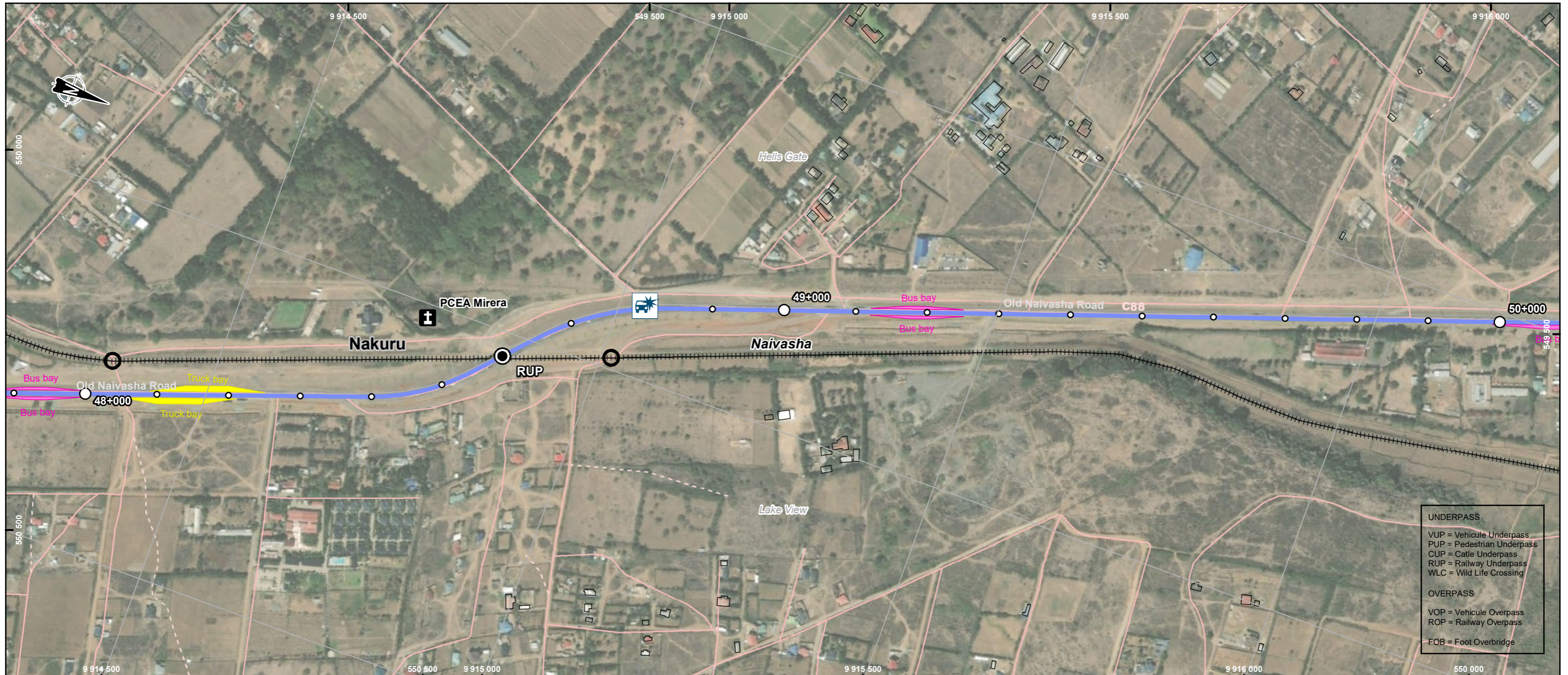
2022-01-21

Preparation : C. Abdel-Malek
 Drawing : A. Monnard
 Validation : G. Pothier
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 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Secondary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project Elements

- Underpass
- Bus Bay
- Truck Bay

Biophysical Environment

- Watercourse

Human Environment

- Sensitives Sites**
- Accident Spot
- Worship Centers**
- Christian
 - Buildings

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Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-15

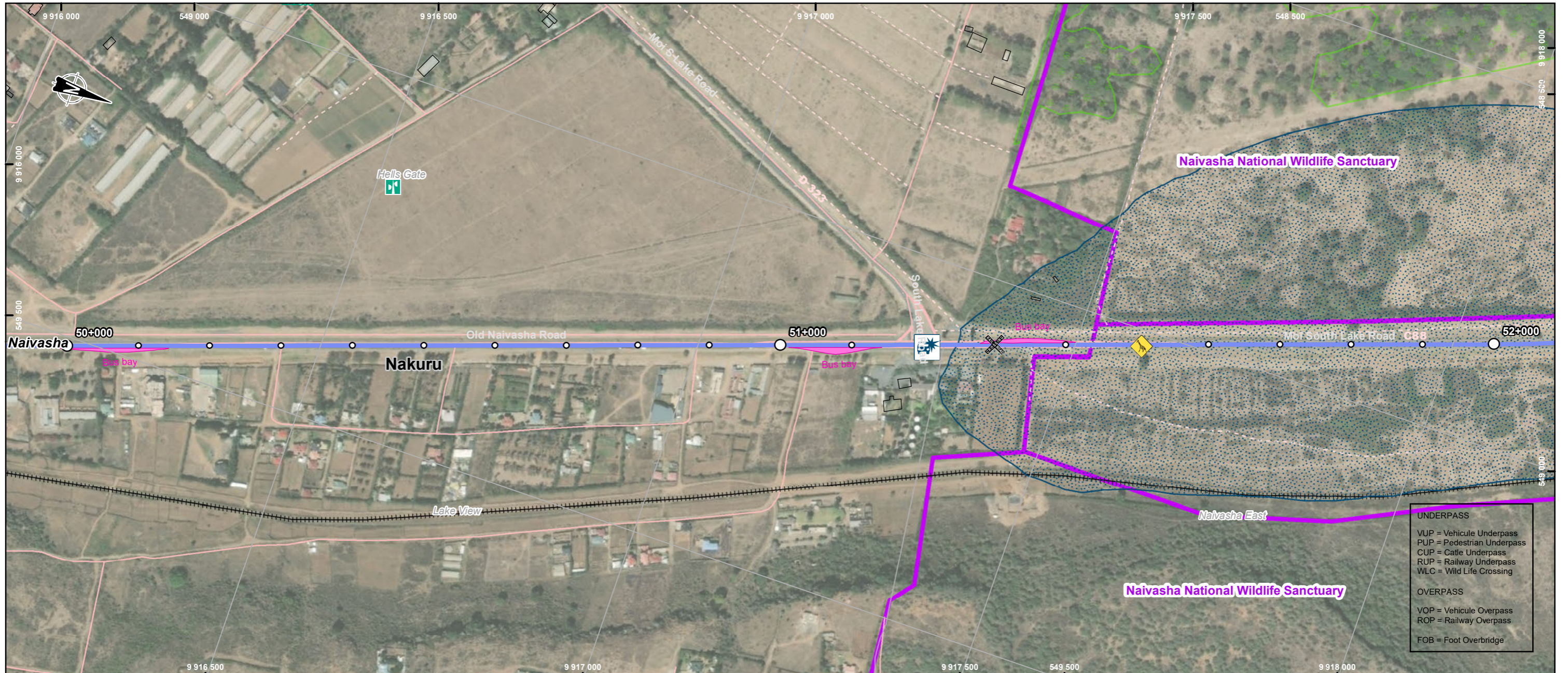
Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

0 55 110 m
 WGS84, TM 36 SE (EPSG 32766)

2022-01-21

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- railway
 - Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 6 - Mai Mahiu - Naivasha

- Structural Project Elements**
- At-grade crossing
 - Bus Bay
- Wildlife Crossing**
- Landbridge

- Biophysical**
- Watercourse
- Protected**
- National

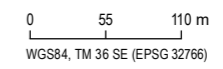
- Human Environment**
- Sensitive Sites**
- Accident Spot
 - Flooding area
- Point of Interest**
- Tower (communication or other)
 - Buildings
- Landuse (OSM)**
- Forest

VINCI **meridiam**

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-16

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12



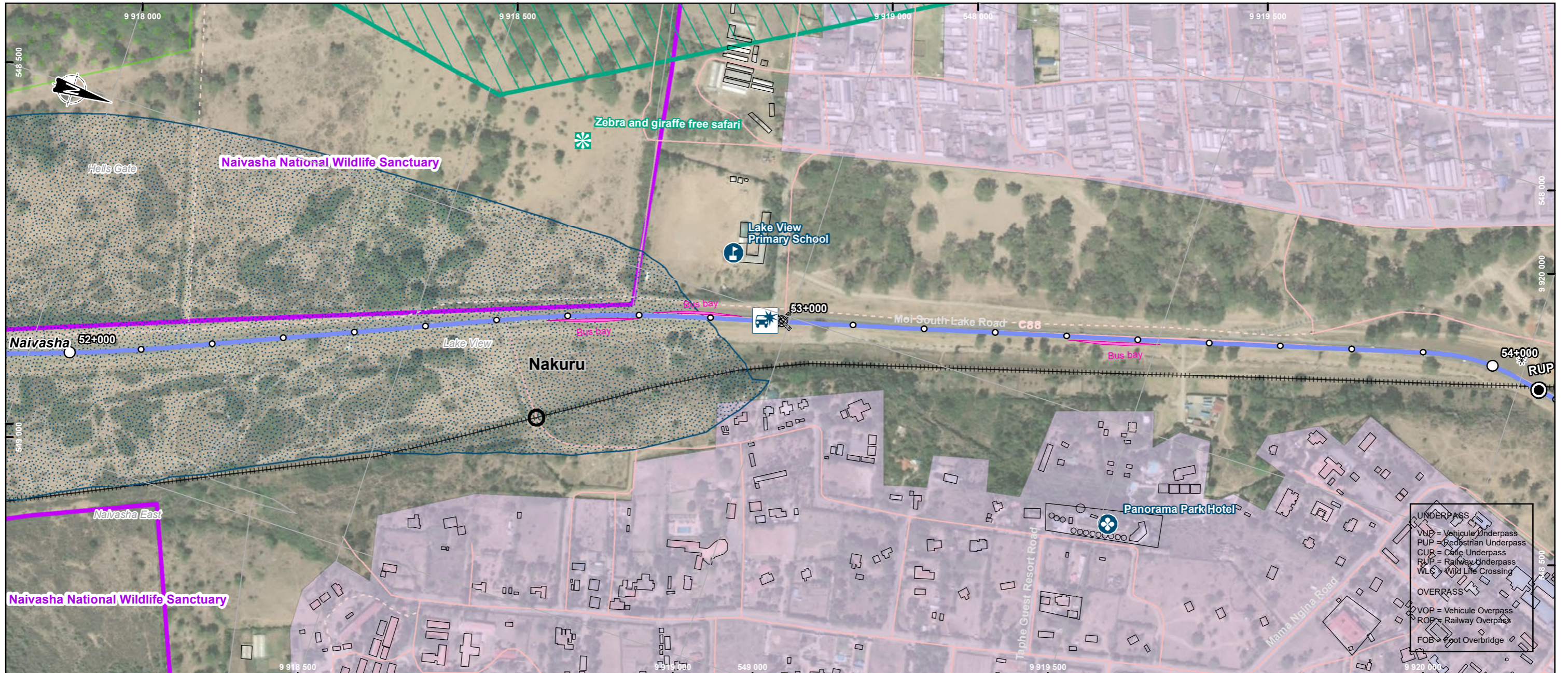
2022-01-26

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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UNDERPASS
 VUP = Vehicle Underpass
 PUP = Pedestrian Underpass
 CUP = Cable Underpass
 RUP = Railway Underpass
 WLC = Wild Life Crossing

OVERPASS
 VOP = Vehicle Overpass
 ROP = Railway Overpass
 FOB = Foot Overbridge

Administrative Limits

- County (**Nakuru**)
- Sub-County (Gilgil)
- Ward (*Murindat*)
- City (**Njoro**)

Transportation Network

- railway
- Secondary
- Tertiary, Residential or Unclassified
- Footway, Path or Track
- Actual Intersection, Weir or Turning Circle

Project Components

- Kilometric point (1 km interval)
- Kilometric point (100 m interval)

Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)

- 6 - Mai Mahiu - Naivasha

Structural Project Elements

- Underpass
- At-grade crossing
- Bus Bay

Biophysical

- Watercourse

Protected

- Ramsar Site, Wetland of International Importance
- National

Human Environment

Sensitive Sites

- Accident Spot
- School Institution
- View point and touristic sites
- Flooding area

Point of Interest

- Archaeological, Attraction, Monument or Viewpoint

Utility

Existing Utilities

- Lamp Post

Buildings

Landuse (OSM)

- Forest
- Residential



Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
 Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-17

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

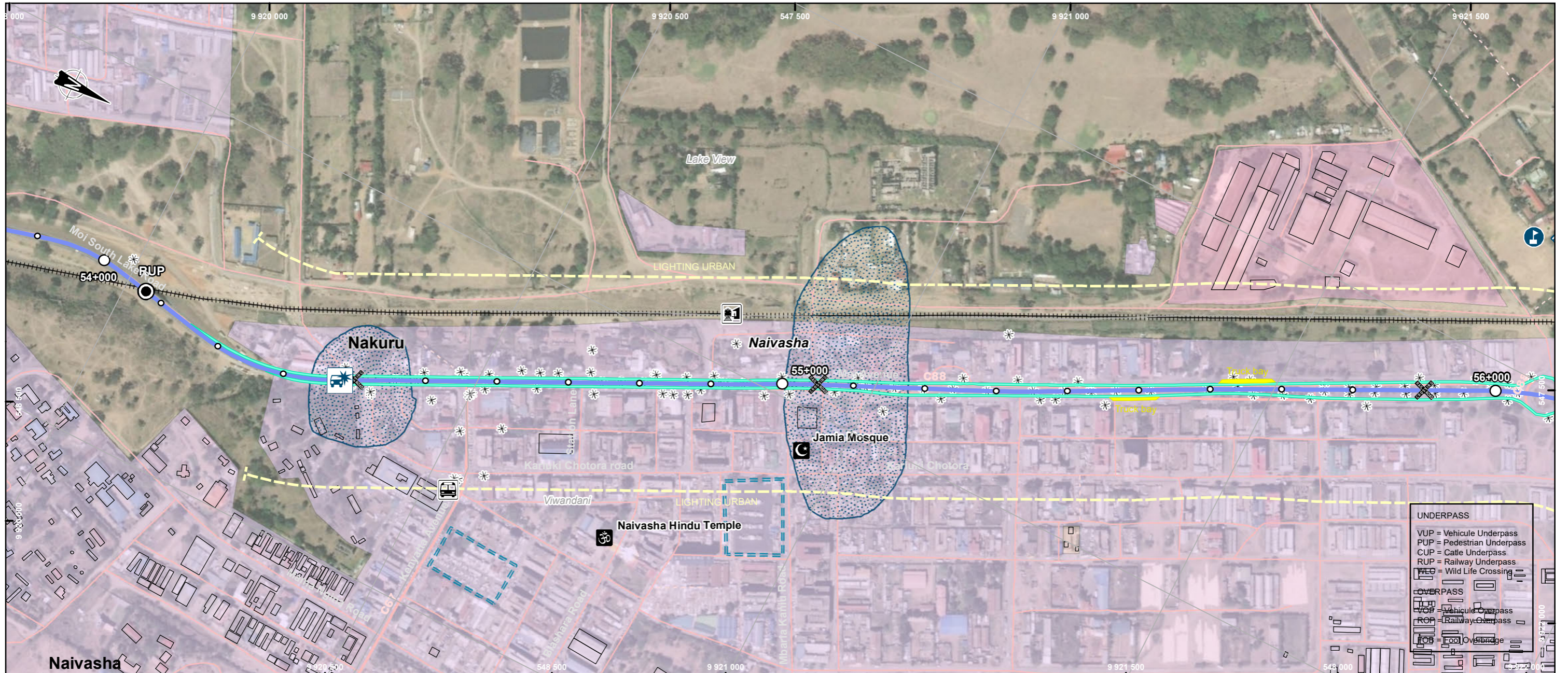
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 WGS84, TM 36 SE (EPSG 32766)

2022-01-26

Preparation : C. Abdel-Malek
 Drawing : A. Monnard
 Validation : G. Pothier
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UNDERPASS	
	VUP = Vehicule Underpass
	PUP = Pedestrian Underpass
	CUP = Calle Underpass
	RUP = Railway Underpass
	WLC = Wild Life Crossing
OVERPASS	
	VOP = Vehicule Overpass
	ROP = Railway Overpass
	TOB = Tool Overpass

- Administrative Limits**
- County (Nakuru)
 - Sub-County (Gilgil)
 - Ward (Murindat)
 - City (Njoro)
- Transportation Network**
- railway
 - Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 6 - Mai Mahiu - Naivasha

- Structural Project**
- Underpass
 - At-grade crossing
 - Service Lane
 - Truck Bay

- Biophysical**
- Watercourse

- Human Environment**
- Sensitive Sites**
- Accident Spot
 - School Institution
 - Flooding area
- Worship Centers**
- Hindu
 - Muslim

- Utility**
- Existing Utilities**
- Lamp Post
 - Buildings
- Landuse (OSM)**
- Commercial
 - Industrial
 - Residential
 - Bus Station

VINCI **meridiam**

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited

Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-18

Sources :
 ESRI World Imagery
 Open Street Map, hydrography and roads
 American Red Cross, Administrative boundaries, 2019
 Protected Planet, Ramsar and World Heritage Site, 2020-12
 Bird Life International, IBA et KBA, 2020-12

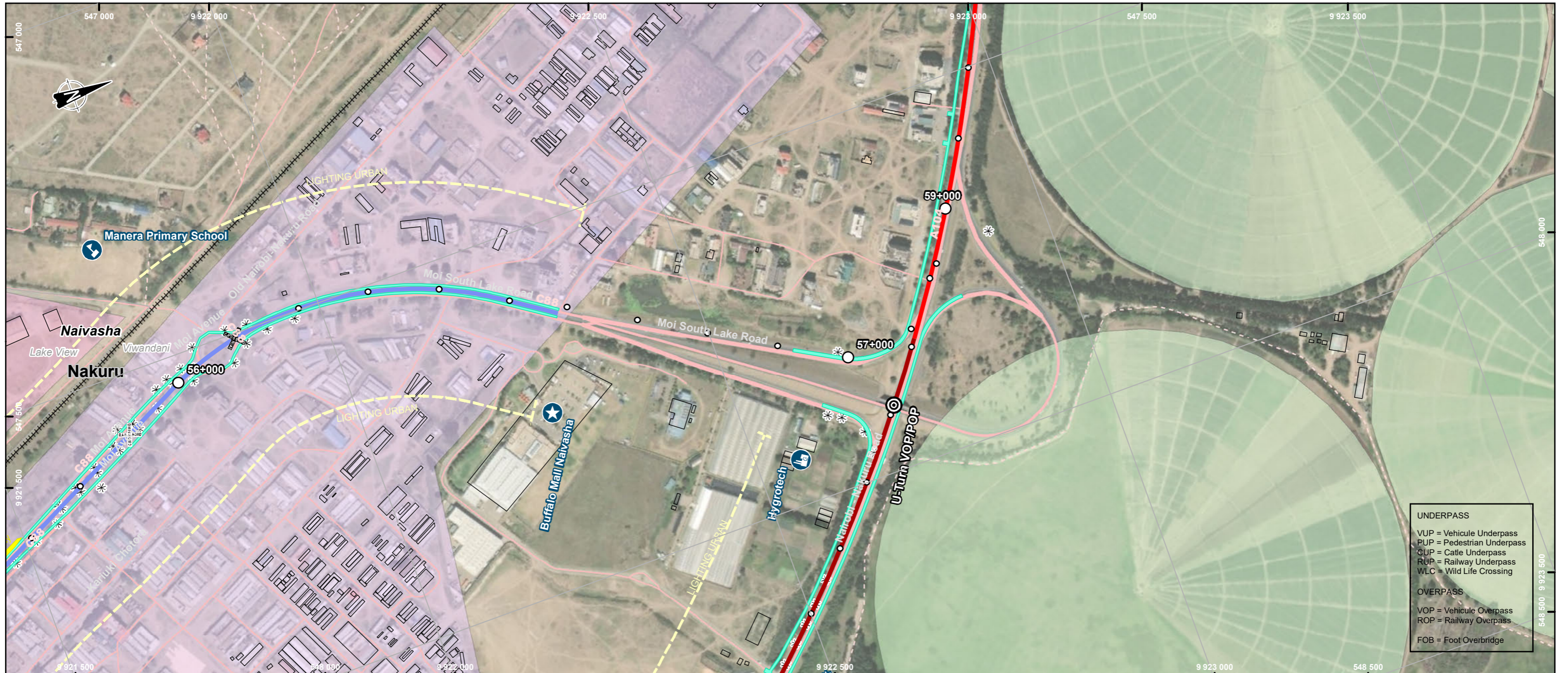
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 WGS84, TM 36 SE (EPSG 32766)

2022-01-26

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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UNDERPASS	
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RUP	= Railway Underpass
WLC	= Wild Life Crossing
OVERPASS	
VOP	= Vehicule Overpass
ROP	= Railway Overpass
FOB	= Foot Overbridge

- Administrative Limits**
- County (**Nakuru**)
 - Sub-County (Gilgil)
 - Ward (*Murindat*)
 - City (**Njoro**)
- Transportation Network**
- +++++ railway
 - Primary
 - Secondary
 - Tertiary, Residential or Unclassified
 - Footway, Path or Track

- Project Components**
- Kilometric point (1 km interval)
 - Kilometric point (100 m interval)
- Segment 1 : Dualling of A8 Highway (Rironi - Mau Summit)**
- 1 - Rironi – Naivasha
 - 2 - Naivasha – Elementaita Road
- Segment 2 : Strengthening of A8-South Highway (Rironi - Naivasha)**
- 6 - Mai Mahiu - Naivasha

- Structural Project**
- ⊙ Overpass
 - ✕ At-grade crossing
 - Lighting Urban *
 - Service Lane
 - Service Lane
 - Truck Bay

- Biophysical**
- Watercourse

- Human Environment**
- Sensitives Sites**
- Industry
 - Market and shopping area
 - School Institution

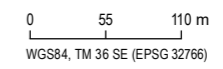
- Utility**
- Existing Utilities**
- Lamp Post
 - Buildings
- Landuse (OSM)**
- Farmland
 - Industrial
 - Residential

VINCI **meridiam**
INVESTING FOR THE COMMUNITY

Nairobi-Nakuru-Mau Summit Highway Project - Rift Valley Highway Limited
Environmental and Social Impact Assessment

Segment 2 - Strengthening of A8-South Highway Section 6 - Mai Mahiu - Naivasha Sheet 6-19

Sources :
 ESRI World Imagery
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 Bird Life International, IBA et KBA, 2020-12



2022-01-26

Preparation: C. Abdel-Malek
 Drawing: A. Monnard
 Validation: G. Pothier
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