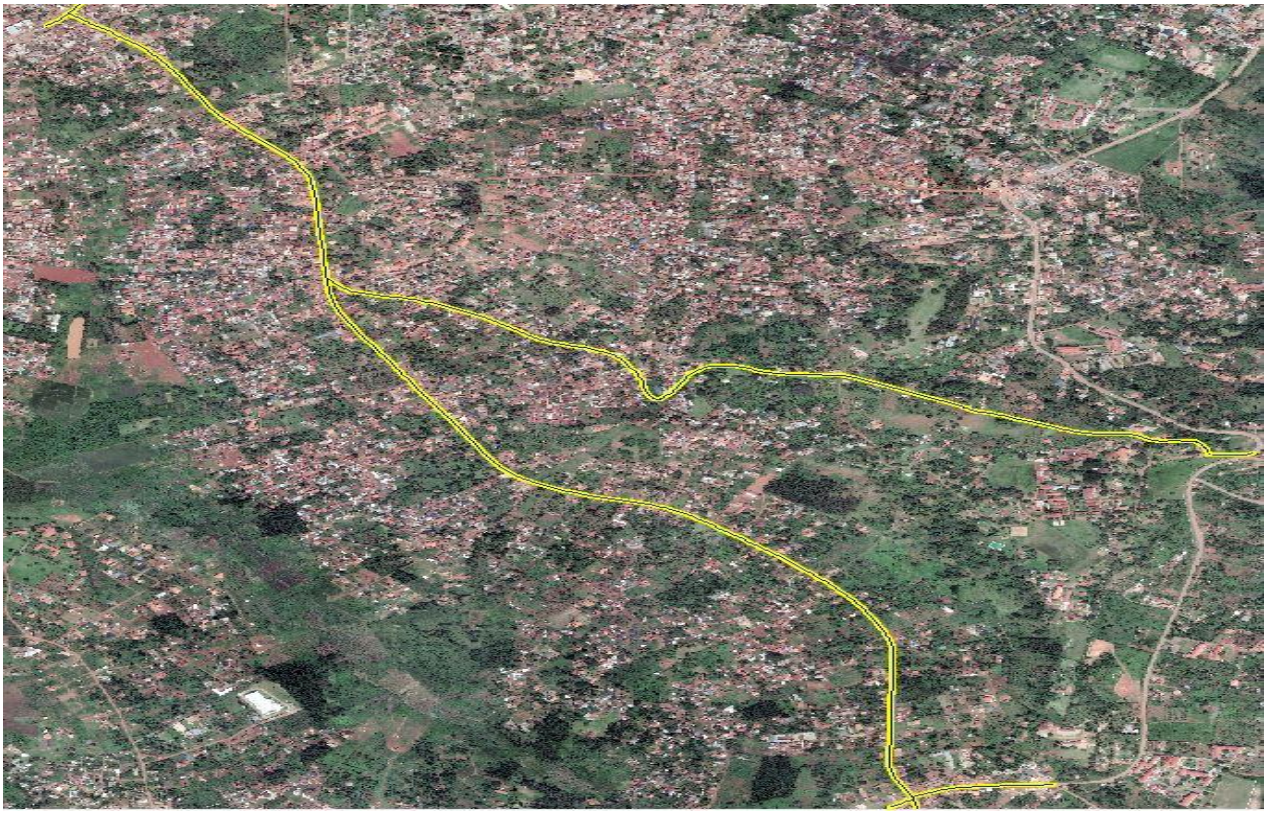
WAKISO DISTRICT LOCAL GOVERNMENT

MAPPING GREEN CORRIDORS ALONG KITEMU-KISOZI ROAD, NAGGALABI SPUR, AND SENTEMA-BUKASA ROADS.

PROCUREMENT REF. NO WAKI-GKMA/SRVCS/2024-2025/00003

Final Report.



June, 2025

THE WORLD BANK
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GREATER KAMPALA METROPOLITAN AREA
URBAN DEVELOPMENT PROGRAM

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List of Acronyms

CAD	Computer-Aided Design
CBD	Central business District
EAP	Environmental Action Plan
FGD	Focus Group Discussion
GDP	Gross Domestic Product
GIS	Geographical Information System
GKMA	Greater Kampala Metropolitan Area
GKMA-IUDMP	Greater Kampala Metropolitan Area -Integrated Urban Development Master Plan
GKMA-UDP	Greater Kampala Metropolitan Area Urban Development Program
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
ICT	Information Communication Technology
KCCA	Kampala Capital City Authority
LC	Local Council
MLHUD	Ministry of Lands Housing and Urban Development
MoKMA	Ministry of Kampala Capital City and Metropolitan Affairs
NDP	National Development Plan
NGO	Non-Governmental Organisation
NSSF	National Social Security Fund
NWSC	National Water and Sewerage Company
PDA	Personal Digital Assistant
PDP	Physical Development Plan
PPC	Physical Planning Committee
PPP	Public Private Partnership
SAS	Senior Assistant Secretary
TC	Town Council
TOR	Terms of Reference
UBOS	Uganda Bureau of Statistics

Definition of Key Terms.

Term	Definition
Building Height	The vertical distance from the average finished ground level of the exterior walls of the building or structure to the highest point of dome, flat or mansard roofs or to the mean level between the ridge and the eaves for gable, hip, gambrel, salt box, shed or A-frame roofs.
Building Line	A line drawn across a plot such that no building or permanent structure, except a boundary wall or fence of approved design enclosing the plot, may be within the area contained between that line and the regular line of the street on which the plot has frontage.
Green Infrastructure Corridor	Refers to the interconnected set of naturally occurring and constructed (man-made) ecological systems or assets, green spaces and other landscape features. They include; networks of planted and indigenous trees, wetlands, parks, green open spaces and original grassland and woodlands, as well as possible building and street level design interventions that incorporate vegetation.
Road Reserve Tree belt	Area on either side of the road set aside for future expansion and development. Stretch along roads planted with trees.

Executive Summary.

The Greater Kampala Metropolitan Area (GKMA), encompassing Wakiso District, is a growing hub of economic activity and rapid urbanization. However, this growth has come at a cost of unplanned settlements, habitat fragmentation, environmental degradation and climate change vulnerability which all threaten the region's ecological balance and quality of life. In response, Wakiso District launched the Green Corridor Mapping Initiative under the Greater Kampala Metropolitan Area Urban Development Program (GKMA-UDP) 2023–2028, funded by the World Bank. This project focuses on two critical corridors: of Bukasa-Sentema-Kakiri Road (12.9km) in Wakiso Sub County and the Kitemu-Kisozi Road and Naggalabi Spur (6.5Km) in Kyengera Town Council. These corridors are traversing densely populated parishes like Nakabugo, Bukasa and Kitemu/Kisozi, serving over 100,000 residents.

It thus, takes cognizance of pressing challenges rooted in unregulated urbanization and informality (characterized by lack of defined building lines, narrow and irregular road sections, encroachment on road reserves) resulting into chaotic development patterns in growth centers like Bukasa, Kitemu, Kivu and Kireka-Bbira. Also, exacerbated traffic congestion along the corridors, inadequate drainage systems that lead to recurrent flooding, mainly evident along the Bukasa-Sentema Road were all equally severe. In addition, environmental vulnerabilities such as wetland encroachment, deforestation and pollution threatened vital catchments like (sections of Mayanja and Lubigi wetland), and also the creation of urban heat islands due to shrinking green spaces generally along these corridors.

To address these issues, the project proposes structured interventions including; varying (3-8metres) building setbacks to regulate commercial and residential developments, defining of road reserves of (18-20meters) for future expansions, and integrated drainage systems featuring bioswales and retention ponds to restore order, mitigate flooding, and protect ecosystems. Therefore, key components of this project will include; well defined pedestrian walkways, drainage systems, water catchment zones, and regulated development via mapped road reserves and building lines.

Implementation of such intervention's hinges on community collaboration and phased execution. A pilot phase to test solutions in high-risk zones like Nakabugo, Kireka-Bbira and Bukasa where road infrastructure and drainage upgrades and green buffers are being tried. Subsequent phases will expand road reserves, install georeferenced pegs to demarcate boundaries, and construct pedestrian walkways with lighting for safety in areas like Kisozi, Kitemu, Kivu, Bukasa, Kireka-Bbira, Bukasa and Lukwanga. Stakeholder engagement through workshops with local councils, parish chiefs, and landowners will ensure inclusivity, while awareness campaigns will ensure compliance with building standards. The project's success lies in its dual focus on ecological preservation, and socio-economic upliftment through improved connectivity to commuter zones like Kakiri and Kyengera, Nsaagu among other areas.

By aligning with Uganda Vision 2040 and global climate resilience goals, the initiative sets a precedent for sustainable urban planning in the country, demonstrating that organized growth and environmental stewardship can coexist to benefit present and future generations.

PART ONE

1.0 INTRODUCTION.

The Greater Kampala Metropolitan Area, which includes Wakiso District, is undergoing rapid urbanization, characterized by unprecedented population growth, infrastructure expansion, and increasing environmental pressures. The importance of the Green Corridor mapping has become increasingly important in the protection of nature. As a key economic and residential hub, the region faces significant challenges stemming from unplanned settlements, including habitat fragmentation, wetland encroachment resulting into and degradation, poor waste management, deforestation, and the loss of green spaces. These issues not only threaten biodiversity but also exacerbate climate vulnerabilities, such as frequent flooding, and diminish residents' quality of life.

Recognizing these challenges, Wakiso District has embarked on a Green Corridor Mapping Initiative under Batch 1 of the Greater Kampala Metropolitan Area Urban Development Program (GKMA-UDP). This effort reflects the district's commitment to integrating urban development with environmental sustainability, setting a precedent for responsible and balanced growth across the metropolitan area.

1.1 Background.

The Greater Kampala Metropolitan Area (GKMA)—as defined under the KCCA Act (amended in 2020 and 2024)—comprises Kampala Capital City Authority and the neighbouring districts of Wakiso, Mukono, and Mpigi. As Uganda's economic nucleus, the GKMA contributes approximately one-third of the national GDP and hosts 70% of the country's industrial base. Between 2014 and 2020, its population surged from 3.4 million to an estimated 5.6 million, fuelling rapid urban expansion that remains largely unregulated and uncoordinated. This expansion has resulted in: (i) persistent traffic congestion and insufficient transport infrastructure; (ii) environmental degradation and strained public services; and (iii) increased disaster vulnerability(iv) un regulated informality and erosion of landscape integrity.

The initiative prioritizes key road corridors, including:

- Bukasa–Sentema–Kakiri Road (Wakiso Subcounty) – 12.9 km.
- Kisozi–Kitemu Road & Naggalabi Spur (Kyengera Town Council) – 6.5 km.

These projects are part of the government's Greater Kampala Metropolitan Area Urban Development Program (GKMA-UDP) (2023–2028) and the Greater Kampala Integrated Urban Development Master Plan, which aims to rehabilitate 96.7 km of roads across Wakiso District.

The selected roads are situated in areas with high economic potential within Wakiso District and the broader GKMA. Their design and development prioritize sustainable and integrated urban planning, with key considerations including:

- Integrating Green Spaces: Establishing greenery along road corridors to promote biodiversity, reduce urban heat, and create a vista.
- Accurate Mapping of Road Reserves: Ensuring future infrastructure expansion while preserving natural landscapes.
- Regulated Building Lines: Defining clear boundaries to support orderly urban development and prevent unauthorized encroachments on reserves.
- Building Height Regulations: Establishing height restrictions to maintain a harmonious urban landscape and guide future development.

- Pedestrian-Friendly Infrastructure: Designing safe and accessible walkways to encourage non-motorized transport and enhance commuter convenience.
- Ecological Conservation: Protecting natural drainage channels and preserving vital catchment areas to maintain environmental stability.

To address these systemic challenges, the GKMA Integrated Urban Development Master Plan (GKMA-IUDMP) was formulated as a strategic framework to guide sustainable metropolitan growth. The Plan underscores the critical role of effective development control, advocating for localized land use regulations and Mapping Green Corridors Along Kitemu-Kisozi Road, Naggalabi Spur, And Sentema-Bukasa Roads in Wakiso Sub County to operationalize its broad vision through context-specific interventions.

The project is financed by the World Bank through the GKMA-UDP (2023–2028) and the Greater Kampala Integrated Urban Development Master Plan. It is expected to enhance transportation, accessibility, and socio-economic development by:

- Decongesting Kampala, improving traffic flow and reducing travel time.
- Enhancing connectivity between commuter zones in Wakiso District.
- Boosting trade and economic activities, fostering business growth in strategic areas.

The four growth centers, located in Wakiso Sub- County of Wakiso District and designated as major centers, exemplify the urban challenges facing the area. They function as both commercial hubs and corridors for residential expansion, currently under intense development pressure. A lack of regulatory oversight has led to unstructured urban sprawl, threatening the ward's visual character, functional integrity, and overall resilience. Their designation as major centers for Wakiso Sub- County, as outlined in the Wakiso Sub- County Physical Development Plan (PDP), underscores the urgent need for structured and sustainable planning to prevent irreversible degradation.

In response, the Government of Uganda—through the Ministry of Kampala Capital City and Metropolitan Affairs (MoKMA) and Wakiso District—initiated the preparation of the Mapping Green Corridors Along Kitemu-Kisozi Road, Naggalabi Spur, And Sentema-Bukasa Roads in Wakiso Sub County under the GKMA Urban Development Program (GKMA-UDP). Financed by the World Bank, this initiative functions as a key implementation mechanism for both the Sub County PDP and the GKMA-IUDMP. The Plan translates metropolitan-level goals into actionable, site-specific strategies encompassing zoning, development control, infrastructure planning, and preservation of environmental and aesthetic assets.

This report has been prepared in accordance with the terms of reference for consultancy services related to the preparation of a Plan for Wakiso Sub County in Wakiso District. It is submitted pursuant to the contract between Wakiso District (the "Client") and GIPEA Africa Ltd (the "Consultant").

1.2 Objectives of the Assignment.

The consultancy's primary goal is to map Green Corridors, focusing on drainage systems, catchment areas, greening zones, road reserve pegging, and determining building lines along the identified roads in Batch 1 of the Greater Kampala Metropolitan Area Urban Development Program (GKMA-UDP).

1.2.1 Key Objectives of the Green Corridor Mapping Initiative.

The consultancy aims to achieve the following objectives under Batch 1 of the Greater Kampala Metropolitan Area Urban Development Program (GKMA-UDP):

1. Control Encroachment on Road Reserves: Establish clear boundaries to protect designated road reserves, preventing unauthorized developments and ensuring long-term infrastructure integrity.
2. Ensure Orderly Urban Development: Implement systematic development guidelines using defined building lines to regulate construction and prevent haphazard growth.
3. Design an Efficient Drainage System: Develop well-aligned drainage infrastructure to manage increased runoff from roads and built environments, mitigating flood risks.
4. Ensure Compliance with Planning Standards: Adhere to physical planning regulations and Uganda Road Design Manual Vol. 3 standards to maintain consistency in urban development practices.
5. Integrate Pedestrian Walkways: Design safe, accessible, and well-integrated pedestrian walkways to enhance road safety and promote non-motorized transport.
6. Designate Water Catchment Points: Identify and preserve strategic catchment areas to effectively manage runoff, directing excess water into natural wetlands to support ecological balance.

1.3 Scope of Work for the Green Corridor Mapping Initiative.

This study focuses on mapping and analysing green corridors along the Bukasa–Sentema–Kakiri Road in Wakiso Subcounty, covering 12.9 km, and the Kisozi–Kitemu, & Naggalabi Spur, spanning 6.5 km. The criteria used have provided a deeper understanding of green corridor design, supported by literature reviews and surveys that guide the analysis and development of an effective design. This approach aims to reduce visual pollution in densely populated areas by establishing well-planned green corridors, thereby enhancing the overall environmental aesthetics and improving the quality of life for residents.

The assignment, as outlined in the Terms of Reference (ToR), encompasses the following key tasks under Batch 1 of the Greater Kampala Metropolitan Area Urban Development Program (GKMA-UDP):

1. Preparation of the Inception Report: Develop a comprehensive document covering methodology, work plans, literature review, and other essential details to guide the project.
2. Stakeholder Engagement: Organize and facilitate consultative meetings with key stakeholders, including physical planning committees, the Executive Council, Councillors, Parish Chiefs, Town Agents, Landowners, and technical institutions involved in mapping and approvals.
3. Fieldwork & Data Collection: Conduct extensive field surveys to gather crucial data on the physical aspects of neighbourhoods.
4. Corridor Mapping: Prepare detailed corridor maps using accurate and up-to-date spatial information derived from topographic surveys and/or high-resolution satellite imagery.
5. Presentation & Approval Process: Organize and facilitate workshops/meetings to present project findings and seek necessary approvals from stakeholders.
6. Road Reserve Identification & Peg Installation: Determine future road reserves and install pegs at strategic locations—beginning, middle, and end of each identified road.
7. Stakeholder Consensus on Green Areas: Engage stakeholders to secure agreements on road reserves and the protection of designated green spaces.
8. Water Catchment Analysis: Identify strategic water catchment areas and outline drainage mechanisms for efficient water evacuation from roads.

9. Road Design & Landscaping: Develop integrated road designs incorporating reserved areas, landscaping elements such as tree planting, pegging of reserves, and designated pedestrian walkways.
10. Road Reserve Mapping: Identify and map out road reserves along prioritized roads in adherence to National Physical Planning Standards and Uganda Road Design Manual Vol. 3.
11. Building Line Marking: Define and mark out building lines within commercial zones to regulate urban development.
12. Road Network Mapping & Database Development: Provide an updated road network map with relevant attribute data for all identified roads.
13. Community Sensitization: Educate communities on building standards, proper utilization of front yards, and adherence to building lines.
14. Surveying & GPS Mapping: Identify optimal locations for building line pegs, install concrete pegs in visible areas, and record GPS coordinates for future reference.
15. Engineering Coordination: Align project activities with road designs prepared by the engineering office for the roads included in Batch 1.

1.4 Rationale: Green Corridor Mapping Initiative.

The Green Corridor Mapping Initiative aims to optimize urban space utilization along selected roads, ensuring systematic development while safeguarding environmental integrity. The project prioritizes five key areas:

- Drainage Systems.
- Catchment Areas.
- Greening Zones.
- Road Reserves.
- Building Line and
- Road reserve Pegging.

Targeting Bukasa-Sentema Road in Wakiso Sub- County, Kisozi-Kitemu Road & Naggalabi Spur in Kyengera Town Council, the initiative seeks to enhance ecological balance through the preservation of natural drainage channels and the protection of vital catchment areas. By implementing efficient water management strategies, the project mitigates flood risks and supports sustainable urban expansion.

Additionally, integrating greening zones promotes biodiversity, reduces urban heat, and contributes to a healthier living environment. The identification and protection of road reserves are crucial for accommodating future infrastructure development while ensuring compliance with sustainable land-use practices. Moreover, installing building line pegs serves as a regulatory framework for guided future construction, fostering orderly urban growth and minimizing encroachments.

1.5 Study Area Description.

1.5.1 Location.

The Bukasa-Sentema-Kakiri Road is partially located within Wakiso Subcounty, with a section extending into Kakiri Town Council (TC). The road originates from the Kampala Northern Bypass, diverging at the Sentema Interchange in Lubigi Wetland, and extends through Bukasa Trading Centre, Sentema, and Kakiri, where it ultimately connects to Hoima Road. Meanwhile, the Kitemu-Kisozi Road and Naggalabi Spur are situated within Kyengera Town Council (TC):

- Kitemu-Kisozi Road branches off from Kitemu Trading Centre along Masaka Highway, heading towards Kisozi Trading Centre along the Buddo-Nakasozi-Kisozi Road.
- Naggalabi Spur diverges from Kitemu-Kisozi Road at Kivu Trading Centre, passing alongside the boundaries of King's College Buddo and the Naggalabi Coronation Site, eventually reconnecting with the Buddo-Nakasozi-Kisozi Road.

Map 1:Location Map of the Green Corridor.

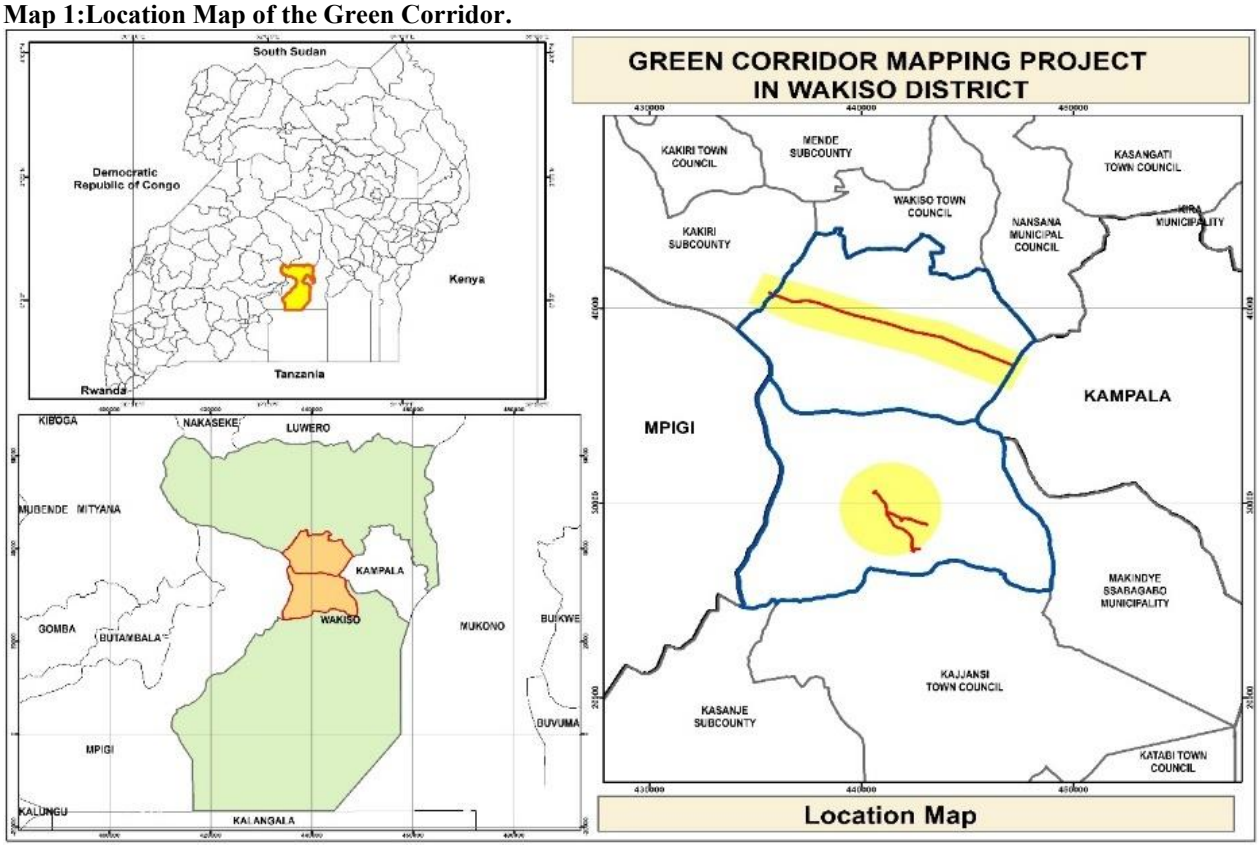


Table 1: Areas Traversed by the Green Corridor Project.

Sentema Road (Bukasa-Sentema-Kakiri Rd).			
Within Wakiso SC	**Parish/Wards**	**Villages/Cells**	**KM**
	Nakabugo	Kireka, Nakuwadde, Nakabugo	5.9
	Bukasa	Bukasa A, Bukasa B.	
	Lukwanga	Lukwanga, Ntinda Kyeberese, Gimbo	
Kakiri TC	Sentema	Sentema-Nakinyola, Bukungulu	7
	Luwunga	Kibuye-Nawango	
	Buwanuka	Buwanuka	
Total			**12.9**
Kitemu-Kisozi Road & Naggalabi Spur			
Kyengera TC	Kisozi/Kitemu	Kitemu Central, Kivu, Kisozi A, Kisozi B	4.5
	Buddo	Buddo	2.0
Total			**6.5**

Source: Wakiso District Road Atlas

The identified corridors serve an estimated 50,000–125,000 people, encompassing densely populated parishes such as Kitemu/Kisozi, Nakabugo, and Bukasa, along with rapidly expanding peri-urban settlements including Kivu, Kisozi, Nsaagu, Lukwanga, Sentema, and Kakiri. The area's population growth is largely driven by Kampala's urban sprawl and the relative affordable land compared to the city center. As part of the Greater Kampala Metropolitan Area (GKMA), these locations are experiencing rapid development, making them critical hubs for residential and commercial expansion. While certain sections along these routes feature established communities and business centers, others remain underutilized, presenting opportunities for green space development and environmental conservation.

Despite urbanization pressures, the region retains pockets of natural vegetation scattered along the road. However, encroachment continues to threaten these ecosystems. There is considerable potential for reforestation, landscaping, and the creation of eco-friendly zones to enhance biodiversity and mitigate environmental degradation. Preserving catchment areas and ensuring strategic road reserves are vital for maintaining ecological balance and preparing for future infrastructure demands.
To support sustainable urban growth, reserved areas must be protected from unauthorized encroachment and designated for landscaping and tree planting, ensuring a more resilient and environmentally friendly urban landscape. This will require comprehensive detailed planning of these areas.

1.6 Methodology for Green Corridor Mapping Initiative.

The methodology employed in the Green Corridor Mapping Initiative integrates advanced GIS technology, field surveys, community engagement, and hydrological analysis to ensure precise mapping and sustainable urban planning. The following approaches were undertaken:

a) GIS Mapping and Remote Sensing.

- Conducted topographic surveys to capture existing infrastructure, roads, and buildings using remote sensing techniques and computer-aided design (CAD) software.
- Mapped and recorded spatial features, including existing buildings, drainage channels, catchment areas, and road reserves.
- Designed walkways, building lines, and additional green spaces within AutoCAD, environment assisted by ArcGIS-Pro and handheld GPS technologies.
- Acquired cadastre maps from the Department of Mapping and Surveys (Entebbe)—these maps were scanned, geo-referenced, rectified, and overlaid to the high-resolution satellite imagery to verify and update existing data.

- Used satellite imagery and spatial data from UBOS to delineate street boundaries and determine optimal setback distances, based on land-use patterns.

b) Reconnaissance Visit and Field Surveys.

- Conducted a reconnaissance visit with a team of five key consultants.
- Assessed planning area conditions and engaged key stakeholders, including:
    - LCIII Chairpersons.
    - District Physical Planner.
    - Sub County Technical Planning Committee.
- Communicated project objectives, deliverables, stakeholder input requirements, and necessary project materials.
- Used field observation guides and handheld GPS devices to validate existing GIS and satellite imagery data.
- Collected demographic and environmental attribute data to inform urban planning decisions.

c) Secondary Data Review.

- Analysed road designs of the selected corridors to integrate the green corridor infrastructure into the urban expansion plan.
- Ensured mapping decisions aligned with existing engineering designs to support sustainable urban growth.

d) Community Engagement.

- Conducted stakeholder consultations at Town Council and Subcounty levels.
- Engaged with Town Clerk, SAS, Technical Personnel, Councillors, Parish Chiefs, LCII & LCI Chairpersons, and Community Interest Groups.

e) Hydrological Studies.

- Evaluated topography and rainfall patterns to map drainage systems aimed at mitigating flood risks.

f) Boundary Surveys.

- Conducted precise boundary surveys to demarcate road reserves.
- Installed geo-referenced concrete pegs for the building lines, ensuring regulated urban development.

2.0 LEGAL, POLICY AND INSTITUTIONAL FRAMEWORK.

The success of the green corridor mapping project hinges on robust alignment with the Uganda's legal, policy and institutional frameworks, these provide the foundation for sustainable land use, environmental protection and climate vulnerability.

Table 2: The Policy, Legal and Institutional Framework.

Policy Framework		
	Policy	**Provisions**
1	National Environment Management Policy, 1994	It guides sustainable environmental management, emphasizing green infrastructure and biodiversity conservation relevant for ensuring ecological connectivity and mitigating urbanization impacts.
2	National Land Use Policy, 2006:	This aims to provide general guidance on optimal and sustainable utilization of land. The Policy addresses the various land use categories and the conflicts that arise from competing demands. It is critical for designating green corridors amidst competing urban and agricultural demands in the district.
3	National Climate Change Policy, 2015	Supports climate-resilient infrastructure, aligning green corridors with flood mitigation and carbon sequestration goals.
4	Uganda Vision 2040 & National Development Plan (NDP III):	Provide the Governments' strategy to pursue urbanisation as a broad strategy to guarantee transformation of the economy "from a peasant to a modern and prosperous country." This is in recognition, that the sector will also promote optimal and organized land use for urban development; improve urban infrastructure services and utilities; create an inclusive policy and regulatory framework for urban development; develop environmentally resilient urban entities; and increase availability of and access to land for urban expansion and investment.
5	National Urban Policy, 2017	This serves as a national framework to guide urban development and the urbanization process in Uganda. It is intended to promote a sustainable, spatially integrated and orderly development of urban areas. These will be well planned and with adequate services and infrastructure.
6	National Wetlands Policy,	Ensures protection of wetlands, which may intersect proposed corridors (for instance along the Bukasa-Sentema Road).
Legislations		
1	The building control Act of 2013.	Section 55 (1) and (2) of the Act, which in effect takes precedence over any other Act or instrument in existence relating to building operations, before coming into force of this Act. The Act therefore takes precedent over the building's rules in the Public Health Act Cap 296 as far as rules regulating building construction and power to require removal or alteration of work not conforming to the rules.
2	The Physical Planning Act, 2010.	Requires alignment and integration of the green corridors within respective zoning regulations such as Physical Development Plans (Kyengera TC and Wakiso SC).
3	The Land Act (CAP 227)	This was enacted to implement the constitutional provisions on land ownership and management. The implication of this Act in relation to the Project is such that once the zoning is done and the plan becomes law, the owners of the land have to conform to the approved plans no matter their land rights held. Part III Section 46 of the same Act, emphasizes that use of land must comply with the Physical Planning Act and any other relevant laws concerning planned land use.
4	The National Environment Act CAP 153	Mandates Environmental Impact Assessments (EIAs) (Part V) and regulates activities near wetlands/forests. Requires EIA certification from NEMA.
5	The Public Health Act. (CAP 296)	The Act specifies details of the building standards under Section 269-13 which apply in planning areas generally. All developers are, by this law, required to erect buildings in accordance to the requirements of the building rules
6	Local Governments Act (1997)	Empowers Wakiso District and its subordinate lower local governments to approve land use plans and enforce bylaws.
7	Forestry and Tree Planting Act (2003)	Section 39 of the act provides for tree planting and growing under the directions of the district council; it defines the area to which tree planting shall be done. Thus, this act is to inform tree planting these along corridors.
8	Roads Act, 2019 (Cap 358):	This act provides for the establishment of road reserves and for the maintenance of roads. Section 2 & 3 of the Act provide for declaration of road reserve which must be kept clear from any developments. Section 4 gives power to the Minister, or a district commissioner (consent of the Minister) to prescribe building lines in towns, etc along any road in which buildings shall be erected in such town or area; or the distance from the centre of the road within which no building shall be erected in such town or area,
Regulations		
1	The National Physical Planning Standards and Guidelines 2011.	The National Standards and Guidelines are intended to guide both the formulation of Plans and their implementation, with the basic aim of ensuring that spatial developments take place in an orderly, coordinated and efficient manner. They provide clear verifiable minimum standards for development activities including Building Lines, Road Reserves etc. They also provide guidelines on zoning, sub-division, housing design and standards.

PART TWO

3.0 ANALYSIS OF THE CURRENT SITUATION, CONDITIONS, AND CHALLENGES.

This section provides a comprehensive overview of the existing conditions along the road corridors under study, focusing on land use patterns, infrastructure limitations, environmental and hydrological factors, green spaces, socio-economic aspects, governance, and key challenges.

3.1 Land Use Patterns Along the Road Corridors.

The urban landscape along these corridors consists of a mix of residential, commercial, and undeveloped land. Many areas lack clearly defined building lines, resulting in sporadic development and overutilization of available space. This unstructured growth reflects challenges commonly observed in organically developed towns, where initial unplanned layouts have evolved into congested networks.

3.1.1 Bukasa-Sentema-Kakiri Road.

Development along the Bukasa-Sentema-Kakiri Road varies significantly. While some sections have witnessed rapid urbanization, others maintain peri-urban residential characteristics or rural fringes with farms and plantations. The land use patterns along the corridor can be categorized as follows:

a) Emerging Growth Centers.

Several areas along the corridor are evolving into commercial hubs, characterized by:

- Retail establishments, including shops and shopping centers.
- Fuel stations.
- Industrial zones.
- Workshops.

Key locations exhibiting this trend include Bukasa, Nakabugo, Kireka-Bbira, Mpaawo, and Lukwanga.

b) Peri-Urban Residential Zones.

The peri-urban residential zones along the corridor can be categorized into two distinct types:

1. **Informal Settlements** – These settlements are primarily located near industrial areas such as Kireka, Nakuwadde, and Nakabugo. They are characterized by:
    - High levels of congestion.
    - Limited access and poor connectivity.
    - Dead-end roads hindering mobility.
    - Unstructured, haphazard development.
2. **Planned Residential Estates** – In contrast, these areas demonstrate organized urban planning, featuring structured development and well-defined infrastructure. Notable estates include:
    - Nakabugo, Nakuwadde, Bukasa, Temangalo (NSSF Housing Estate), and Sentema (Mirembe Estate).
    - Properly designed layouts with established infrastructure supporting residential needs.

c) Rural Fringes.

Certain sections of the corridor continue to exhibit rural characteristics, including:

- Small-scale agricultural farms.
- Eucalyptus forest plantations.
- Undeveloped land awaiting future development.

These features are particularly evident in areas such as Bukasa B, Kireka, Lukwanga, and Gimbo.





Plate 1: Banana Plantation in Ntinda Kyeberese (Left), Eucalyptus Plantation in Bukasa A (Right).

d) Conservation Zones.

Wetland conservation zones were also evident in the corridors; for instance, in Lubigi, Nakabugo and Bukasa along the Bukasa-Sentema road.





Plate 2:Section of Lubigi Wetland in Nakuwadde (Left) & Water Catchment Area in Kireka (near the SC Headquarters) Right.

Also, some green spaces which served as social gathering, and recreation areas were evident along the road for instance Margaret Gardens, Royal Inn among others.





Plate 3: Margaret Gardens in Nakuwadde.

3.1.2 Land Use Patterns along Kitemu-Kisozi Road and Naggalabi Spur.

Development along the Kitemu-Kisozi Road and Naggalabi Spur varies significantly. While certain sections have undergone rapid urbanization, others maintain peri-urban residential characteristics or rural landscapes with farms and plantations. Additionally, the corridor is home to several cultural sites, contributing to its historical and socio-economic significance.

a) Emerging Growth Centers.

Several locations along the corridor are evolving into commercial hubs, characterized by:

- Shopping centers
- Petrol stations
- Industrial zones
- Workshops

Key trading centers exhibiting this trend include Kitemu, Kivu, and Kisozi. However, development in these areas remains largely unregulated, with structures being erected haphazardly, lacking defined building lines and setbacks. Furthermore, market stalls and structures have been established within road reserves, obstructing both traffic flow and pedestrian movement, particularly during peak hours.



Figure 1:Random erection of structures without setbacks (Left), Roadside Market extending within the Road Reserve in Kitemu (Middle), well defined Building Lines in Kisozi Trading Center (Right).

3.1.3 Peri-Urban Residential Zones Along Kitemu-Kisozi Road and Naggalabi Spur.

The peri-urban residential zones along Kitemu-Kisozi Road and Naggalabi Spur exhibit mixed-use characteristics, where residents frequently operate businesses in front-facing commercial spaces while residing in the rear sections of their housing units. These settlements have developed organically, lacking structured urban planning and a defined order.

Several factors influence the accessibility of these areas:

- Hilly terrain limits road connectivity in certain sections.
- Unplanned growth results in irregular settlement patterns.
- Limited infrastructure affects accessibility and service delivery.

Additionally, small-scale agricultural farms and vacant land in Kivu, Kisozi, and Naggalabi hold significant potential for future development, presenting opportunities for urban expansion and green space integration.

3.2 Infrastructure Status.

3.2.1 Infrastructure Conditions and Limitations on the Corridors.

This section examines the current state of road and utility infrastructure along the corridors. Key findings indicate that:

- Road widths and public transport facilities are insufficient to accommodate increasing traffic volumes, particularly during peak hours.
- Absence of designated road reserves and building lines complicates future expansion, making infrastructural upgrades more disruptive.

3.2.2 Bukasa-Sentema-Kakiri Road: Infrastructure Status.

a) Road Conditions.

The Bukasa-Sentema-Kakiri Road exhibits varied terrain and inconsistent road conditions, with the following challenges:

- Sloping sections in Kireka, Bbira, and Nakabugo, making navigation difficult.
- Slippery and unmotorable surfaces during rainy periods, while remaining dusty throughout much of the year.
- Inconsistent road width, with narrower sections causing traffic congestion, particularly for heavy trucks.
- Wider sections observed in areas where construction has commenced, such as parts of Kireka-Bbira and the Mayanja River crossing in Bukasa.

3.2.3 Infrastructure Conditions and Limitations on Kitemu-Kisozi Road and Naggalabi Spur.

a) Road Status.

The Kitemu-Kisozi Road and Naggalabi Spur face significant infrastructural challenges affecting accessibility and urban development:

- Narrow road width restricts smooth traffic flow, leading to congestion, especially during peak hours.
- Unpaved road sections contribute to dust accumulation in dry seasons and muddy, slippery conditions when it rains.
- Lack of proper drainage systems results in waterlogging and erosion, affecting nearby settlements.
- Unregulated roadside activities, such as market stalls encroaching on road reserves, disrupt mobility and pedestrian safety.
- Failure to harvest rainwater from buildings increases surface runoff, accelerating road deterioration.

Some sections of Kitemu-Kisozi Road and Naggalabi Spur exhibit early signs of urbanization; however, inconsistent development patterns hinder effective planning. Without designated road reserves and walkways, upgrading efforts may face additional challenges.

3.2.4 Utility Infrastructure Conditions along Kitemu-Kisozi Road, Naggalabi Spur and Bukasa-Sentema-Kakiri Road.

The utility infrastructure along Kitemu-Kisozi Road, Naggalabi Spur and Bukasa-Sentema-Kakiri Road faces several challenges, impacting access to essential services such as water supply, electricity, and waste management.

a) Water Supply.

- Limited access to piped water, with many households relying on boreholes, wells, and rainwater harvesting.
- Inconsistent water pressure in areas connected to the national grid, leading to frequent shortages.

- Encroachment on wetlands threatens natural water sources, reducing availability for local communities.

b) Electricity and Street Lighting.

- Unreliable electricity supply, with frequent power outages affecting businesses and households.
- Limited street lighting, particularly in peri-urban and rural sections, posing security risks and reducing night time visibility.
- Illegal power connections in informal settlements, increasing safety hazards.

c) Waste Management.

- Inadequate waste collection services, resulting in illegal dumping along roadsides and drainage channels.
- Limited recycling initiatives, with most wastes ending up in open drains or being burned, contributing to environmental pollution.
- Poor drainage systems, exacerbating flooding risks due to blocked waterways.

d) Planned Improvements.

The GKMA-UDP project includes street lighting, pedestrian walkways, and green spaces as part of the Kitemu-Kisozi-Naggalabi Spur and Bukasa-Sentema-Kakiri Road upgrade.

- Local authorities are working to relocate roadside vendors to designated markets to improve waste management and pedestrian safety.
- The Greater Kampala Metropolitan Area Urban Development Program aims to enhance utility infrastructure, ensuring better access to water, electricity, and waste disposal services.



Plate 4:Slippery Section of the road on the rainy day in Nakabugo Trading Center (Left) Kireka-Bbira (Middle) & Wider Section in Nakabugo (Right).



Plate 5:Wider Section of the Road under Construction in Kireka-Bbira (Left-Middle), Narrow section of the Road in Bukasa A (Right).

3.2.5 Pedestrian Considerations.

The absence of designated sidewalks and pedestrian pathways along the corridors poses significant safety risks for both pedestrians and cyclists. Many sections exhibit poor pedestrian flow design, reflecting challenges often observed in urban planning simulations—where misplaced walkways force individuals to navigate congested and hazardous areas. These deficiencies result in:

- Reduced efficiency in pedestrian movement, hindering seamless mobility.
- Higher accident risks due to mixed-use traffic patterns.

- Limited accessibility for vulnerable groups, including children, the elderly, and individuals with disabilities.

Future infrastructure improvements should prioritize the integration of well-designed pedestrian walkways to enhance safety, accessibility, and overall urban mobility.

3.2.6 Road Reserves.

Road reserves along the corridor are poorly defined, leading to the random erection of structures with no clear building lines or setbacks. This encroachment reduces available road space and complicates future expansion efforts.

Key observations indicate:

- Encroachments, where informal structures extend into road reserves, restricting traffic circulation.
- Haphazard stalls and roadside vendors positioned too close to the road, further obstructing pedestrian pathways.
- Ongoing road construction has begun to define reserves in certain areas, such as Kireka-Bbira Trading Centre, where some buildings now feature improved setbacks.

To ensure urban order and sustainable infrastructure development, the project must:

- Clearly delineate road reserves to prevent future encroachment.
- Enforce building line regulations to structure development in a more organized manner.
- Relocate informal stalls and vendors to designated trade areas, improving pedestrian movement and traffic flow.



Plate 6: Informal structures with no setbacks in Kireka-Bira left &Middle and defined setbacks in Bbira (Right).

3.2.7 Road Network Status: Kitemu-Kisozi Road and Naggalabi Spur.

The Kitemu-Kisozi Road and Naggalabi Spur feature varied terrain and inconsistent road conditions, posing significant challenges for transportation and infrastructure planning. Key observations include:

- Sloping sections in Kireka, Bbira, and Nakabugo, making navigation difficult.
- Slippery and unmotorable surfaces during rainy periods, while remaining dusty throughout most of the year.
- Inconsistent road width, with narrow sections causing traffic congestion, particularly for heavy trucks.
- Wider sections observed in areas where construction work has commenced, such as parts of Kireka-Bbira and the Mayanja River crossing in Bukasa.

Infrastructure Development and Planning Considerations.

A thorough understanding of the current road conditions along Bukasa-Sentema and Kitemu-Kisozi Roads is essential for effective infrastructure planning. Several critical factors influencing development include:

- Road expansion requirements to accommodate increasing traffic loads.
- Drainage system improvements to mitigate flooding and erosion.
- Pedestrian safety enhancements, including the construction of designated walkways.

- Enforcement of road reserves to prevent encroachment and ensure future urban development.



Plate 7: Enforcement of road reserves along Kitemu-Kisozi road and Naggalabi Spur.

Additionally, the Greater Kampala Metropolitan Area Urban Development Program (GKMA-UDP) has launched major road upgrade initiatives aimed at enhancing urban mobility and infrastructure. These upgrades include:

- Street lighting to improve visibility and security.
- Pedestrian walkways to ensure safe and efficient movement.
- Green spaces to promote environmental sustainability and urban aesthetics.
- Selecting native tree species that thrive in the local climate
- Developing pedestrian-friendly green spaces.
- Installing noise-buffering vegetation near densely populated areas.

Furthermore, the Kitemu-Kisozi-Naggalabi Spur Road project, awarded to China Railways Seventh Group, is expected to be completed within 18 months, significantly improving connectivity and transport efficiency along the corridor.

3.3 Environmental and Hydrological Conditions.

3.3.1 Drainage System.

The drainage infrastructure along the Bukasa-Sentema-Kakiri Road and Kitemu-Kisozi Road & Naggalabi Spur is in critical condition, posing significant challenges to road safety, environmental stability, and urban resilience. The key concerns include:

a) Erosion and Gullies.

- Heavy downward water flow has carved deep gullies along the roads, transforming them into informal drainage channels.
- These gullies erode road sections, leading to narrowing and instability.
- In some areas, the gullies are excessively deep, creating high-risk zones for accidents.

b) Blocked Culverts and Drainage Channels.

- Many existing culverts and drainage channels are blocked due to siltation and debris accumulation.
- Poor maintenance has resulted in water stagnation, heightening the risk of flooding.
- Drainage channels lack proper connectivity to natural catchments, reducing their effectiveness in managing water flow.

c) Flooding and Waterlogging.

- Accumulated debris and garbage within drainage systems have worsened flooding incidents.
- Waterlogging is prevalent in areas such as Nakuwadde, Nakabugo, Kireka Bbira, and Bukasa A, posing risks to road safety and structural integrity.

3.3.2 Proposed Solutions.

To mitigate these challenges, the project should prioritize:

- Rehabilitating drainage channels to ensure efficient water flow.
- Clearing blocked culverts and implementing regular maintenance schedules.
- Connecting drainage systems to natural catchments to improve water management.
- Introducing erosion control measures, such as reinforced embankments.



Plate 8:Status of the drainage network in Kireka-Bbira, and Nakabugo (Right &Middle).



Plate 9: Status of Drainage; (absence of a defined channel in Kisozi Town) Left. Drainage Blockage by Garbage in Kireka-Bbira (Middle), & Worn-out Culverts in Nakabugo (Right).

3.3.3 Topography and Water Retention Needs.

GIS analyse of Bukasa-Sentema Road reveal several low-lying areas where water naturally accumulates, necessitating the implementation of specialized retention systems and overflow channels. These areas are prone to waterlogging and flooding, requiring strategic drainage solutions to enhance road stability and environmental resilience. To mitigate these challenges, the project should prioritize;

- Retention basins to manage excess water.
- Overflow channels to efficiently redirect runoff.
- Integration with natural catchment areas to support sustainable drainage.

3.3.4 Green Space Deficiencies and Urbanization Impact.

The rapid urbanization of the Greater Kampala Metropolitan Area has led to a significant reduction in green spaces, affecting both environmental sustainability and urban livability. The loss of green areas impacts:

- Urban heat regulation, increasing temperatures in densely built environments.
- Stormwater management, reducing natural absorption and increasing runoff.
- Biodiversity, limiting habitats for flora and fauna.

To counteract these effects, the incorporation of designated green corridors is essential. These corridors can:

- Provide recreational spaces for residents.
- Enhance water absorption, reducing flood risks.
- Support biodiversity, fostering ecological balance.

3.4 Socio-Economic and Governance Challenges.

3.4.1 Land Ownership and Legal Frameworks.

Land ownership in Uganda is governed by four main tenure systems: Customary, Freehold, Leasehold, and Mailo Land Tenure. However, ambiguities in ownership and inadequate legal frameworks for defining road reserves and building lines often hinder project implementation. To overcome these challenges, a structured approach involving robust stakeholder engagement and clear communication of planning objectives is essential.

The study area primarily consists of Mailo Land, which is categorized into two types:

- Private Mailo Land – Owned by individuals, families, and housing estates, particularly in Nakabugo and Bukasa parishes.
- Official Mailo Land – Property of the Buganda Kingdom, encompassing areas such as Sentema, Lukwanga, and Gimbo.

3.4.2 Challenges in Land Ownership.

Several issues complicate land management in these areas:

- Informal occupancy and squatters. Many individuals settle on land without formal ownership rights, leading to disputes.
- Speculative land sales. Driven by urbanization pressures, land transactions often occur without proper documentation, increasing the risk of conflicts.
- Limited enforcement of land-use regulations. Weak governance structures make it difficult to protect road reserves and green spaces.
- Land Grabbing and Illegal Settlements. Powerful individuals or groups often acquire land unlawfully, displacing rightful owners. Additionally, unregulated urban expansion leads to informal settlements, complicating land administration.
- Weak Legal Framework and Enforcement. Existing land laws sometimes fail to adequately protect vulnerable communities.
- Unclear Boundaries for Road Reserves and Public Infrastructure. Poorly defined road reserves and building lines result in delays for development projects and Lack of proper compensation frameworks for affected landowners exacerbates conflicts.

3.4.3 Proposed Solutions.

To mitigate these challenges, the project should:

- Strengthen legal frameworks to ensure clear land ownership records.
- Enhance stakeholder engagement to resolve disputes before project execution.
- Implement transparent land registration processes to prevent speculative sales.
- Enforce road reserve protections to support sustainable urban planning.

3.4.4 Summary of Key Challenges.

The following table summarizes the primary challenges identified in the current conditions of the project area:

Challenge.	Impact.	Proposed Solution.
Waterlogging & flooding	Road instability & environmental risks	Retention basins, overflow channels, catchment integration
Loss of green spaces	Increased urban heat, poor stormwater management	Designated green corridors, biodiversity support
Land ownership ambiguities	Delayed project implementation	Strengthened legal frameworks, stakeholder engagement
Encroachment on road reserves	Reduced road space, obstructed traffic	Enforced building line regulations, relocation of vendors

4.0 INFRASTRUCTURE DESIGN INTEGRATION.

Establishing clearly defined building lines and road reserves, enhancing drainage systems, and strategically planning and designing green infrastructure are essential for managing urban growth and ensuring the safe, sustainable development of infrastructure. This section outlines the proposed design and mapping of these parameters along the Bukasa-Sentema Road, Kitemu-Kisozi Road, and Naggalabi Spur, with a focus on planned green corridors.

4.1 Defining Building Lines and Road Reserves.

4.1.1 4.1.1. Building Lines.

To uphold safety, privacy, health, aesthetics, and urban amenities, buildings along these roads must be set back from plot boundaries in accordance with the recommended standards. The walls of all structures should be positioned either on or behind the defined building line, ensuring orderly development.

This building line will serve as a permissible construction boundary, regulating development along these roads. Compliance with these guidelines must be strictly enforced to maintain urban order and prevent encroachment.

Table 3: Building Line Standards.

Land Use Category.	Building Line Standards (m).	Guidance.
Residential Development		
- Low Density	8	These setbacks vary to allow manoeuvrability within the plot in case of emergencies. They also provide space for the placement of utility services.
- Medium Density	3	
- High Density	3	
Commercial Developments		
Shops, Markets, Offices, Accommodation, Entertainment.	2	This frontage space is designated for a covered walkway or canopy of 2m depth, extending to the plot boundary. If no canopy is present, this frontage space must be paved.

Source: NPPS&G

The proposed setbacks were adapted from the national urban design standards and customised to local conditions such as road capacity, expected traffic volumes, and adjacent land use. For instance, in areas where cultural or environmental factors necessitate additional space, building lines may be adjusted accordingly to accommodate unique site requirements. Additionally, community consultations were conducted to gather input on aesthetic and functional considerations, ensuring that the proposed building lines are both practical and aligned with local expectations.

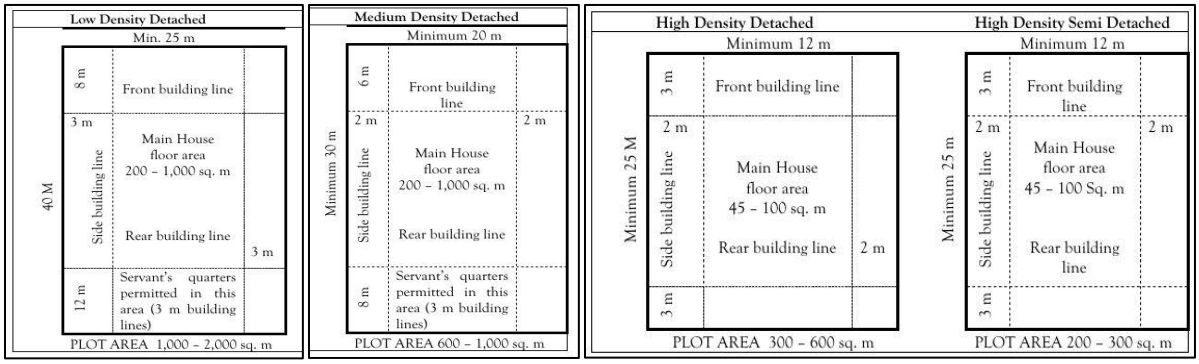


Figure 2: Low and Medium Density Plot Layouts with Building Lines (Left) & High-Density Layout with defined Frontage setbacks/Building Lines.

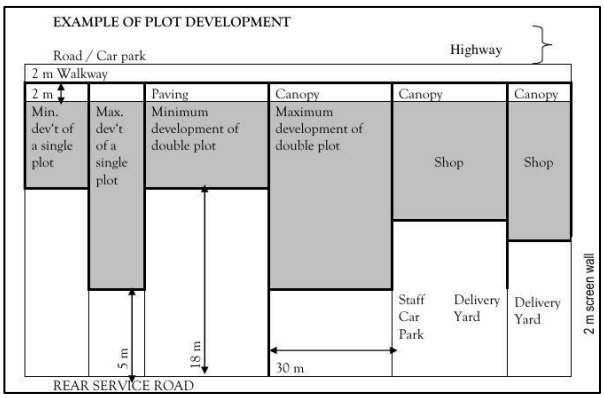


Figure 3:Commercial Plot Layout with Setbacks.

Also establish guidelines for building heights to ensure harmonious urban landscapes.

Table 4:Proposed Building heights.

Area Location	Proposed Building Heights (m)
Within the trading centers (Kitemu, Kisozi, Kivu, Kireka-Bbira, Nakabugo, Bukasa, and Lukwanga)	2-4 storeys (Maximum of 9-12 Meters)
Peri-urban Residential zones	1-2 storeys (Maximum of 6 Meters)
Road corners	1-2 storeys (Maximum of 6 Meters)

Source: NPPS&G

4.1.2 Road Reserves.

Road reserves are designated corridors of land set aside for current and future roadway expansions. These reserves ensure that as traffic demands increase, infrastructure can be upgraded seamlessly without costly land acquisitions or significant disruptions. The consultant conducted a comprehensive analysis of the current road widths and existing margin extents, revealing the vertical and horizontal distributions along the roadways. This assessment outlined both current land use and potential future developments.

Additionally, the consultant:

- Reviewed road designs from contractors to integrate their proposals into the planning process.
- Analysed traffic projections alongside population growth forecasts to justify the need for expanding road capacities over time.
- Applied urban planning principles, recognizing that well-planned road reserves can significantly reduce long-term congestion by anticipating future infrastructure needs.

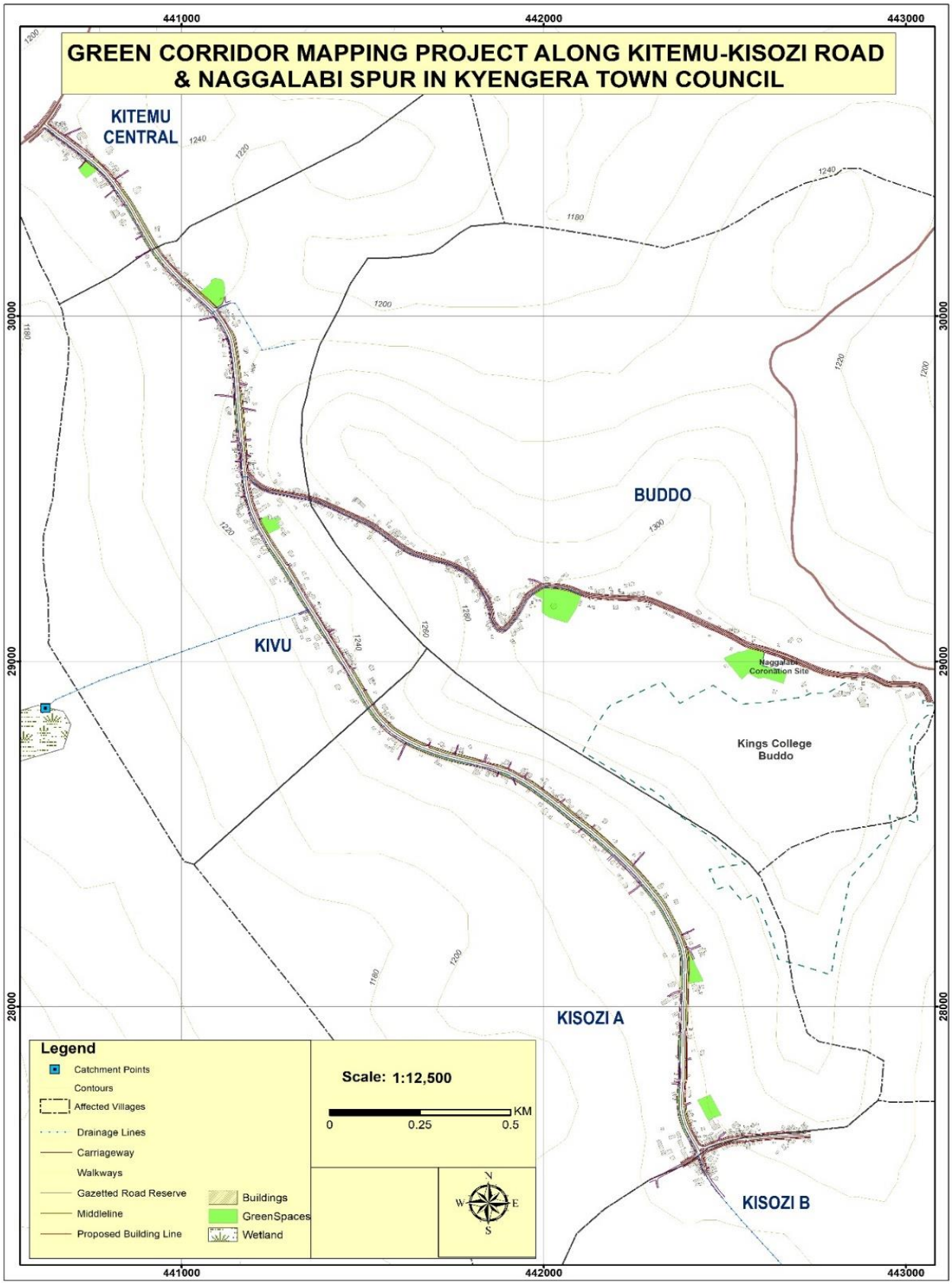
Table 5 below summarizes the proposed dimensions and criteria for road reserves based on preliminary analyses.

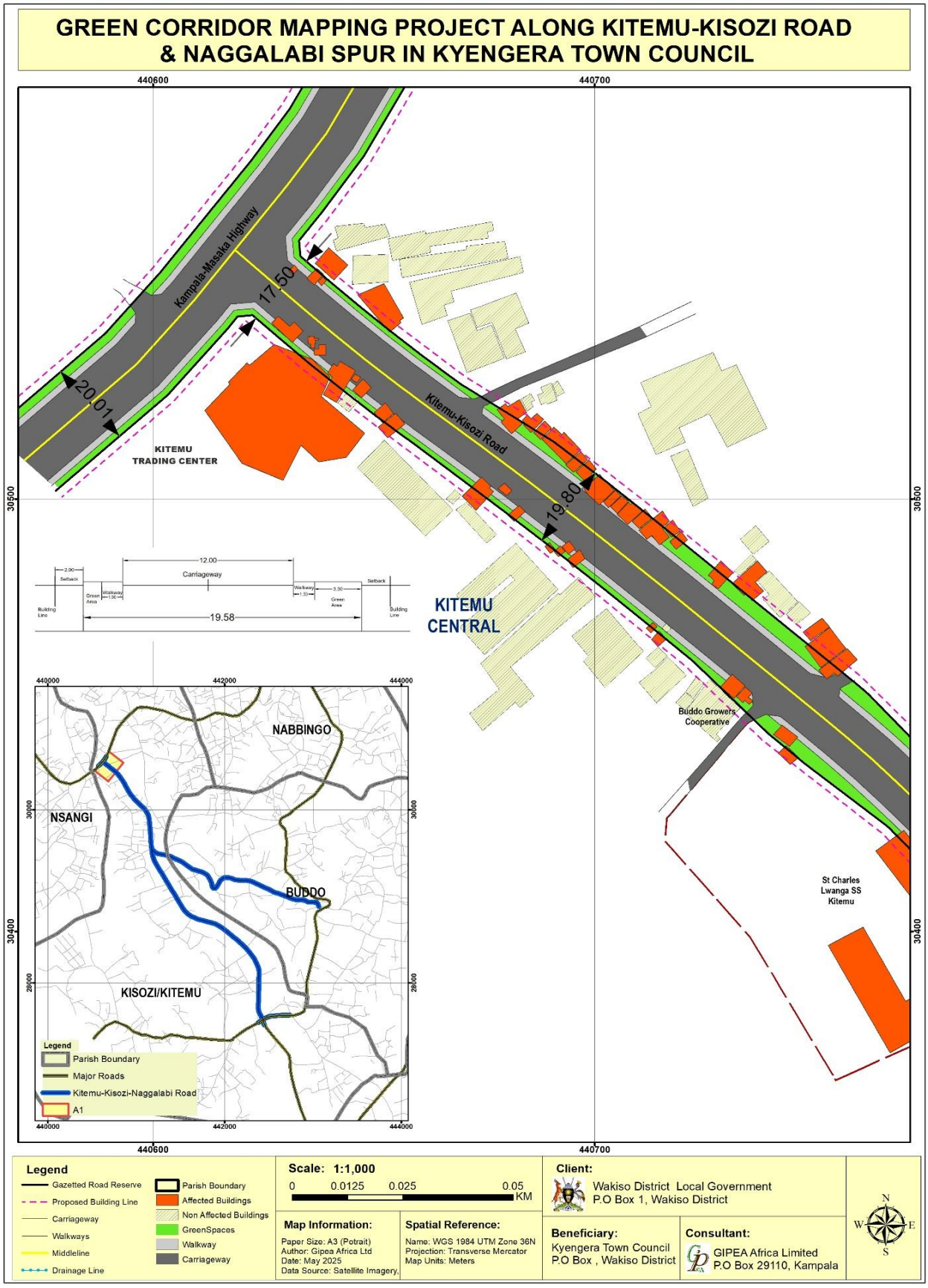
Table 5: Road Reserve Parameters and Design Considerations.

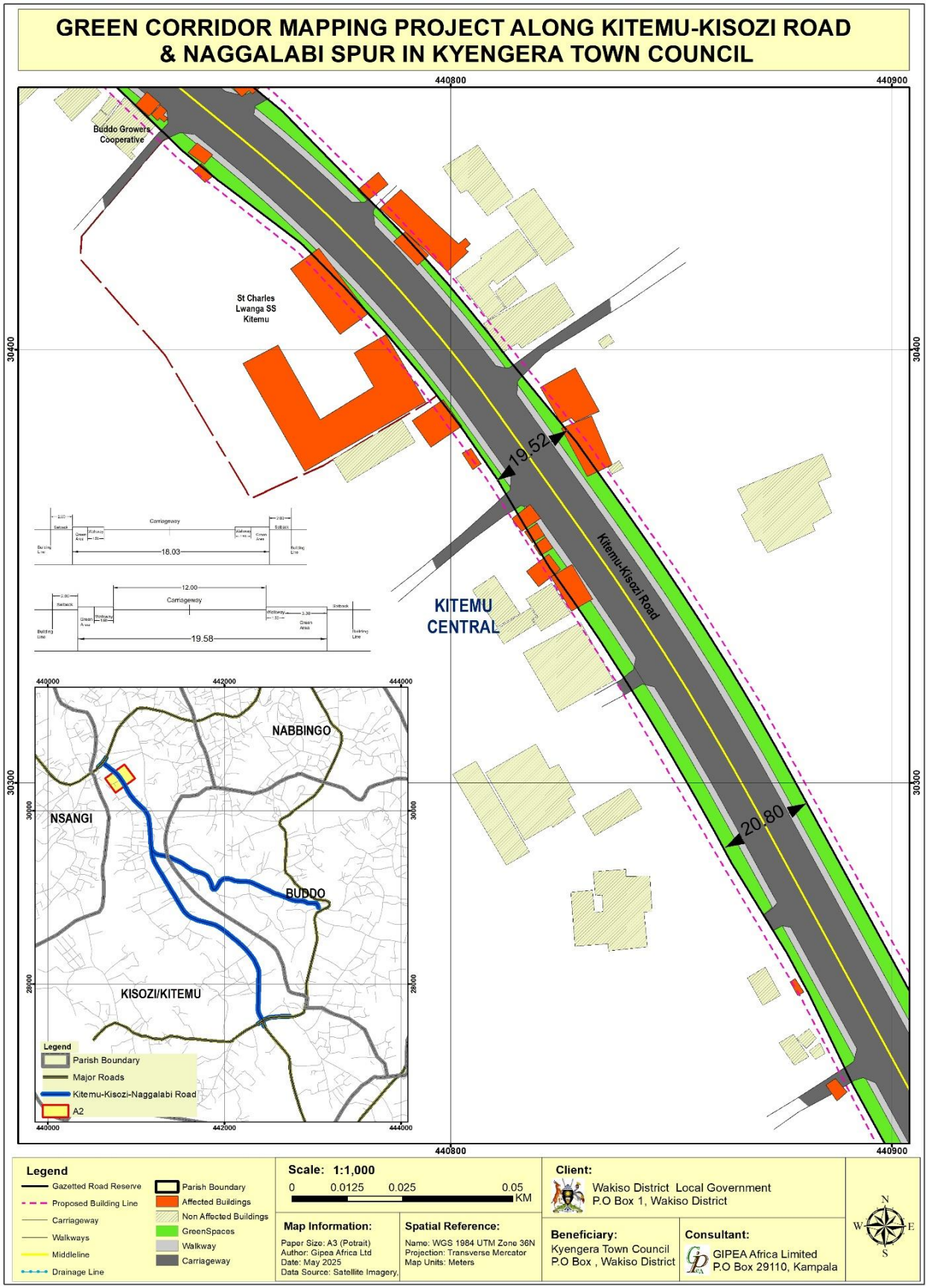
Parameter	Proposed Range	Criteria and Rationale
Road Reserve Width	18-20 meters	Supports future expansion and minimizes urban congestion risks.
Green Buffer Zone	Minimum of 2 meters	Provides space for environmental features and ensures integration with drainage clearance.

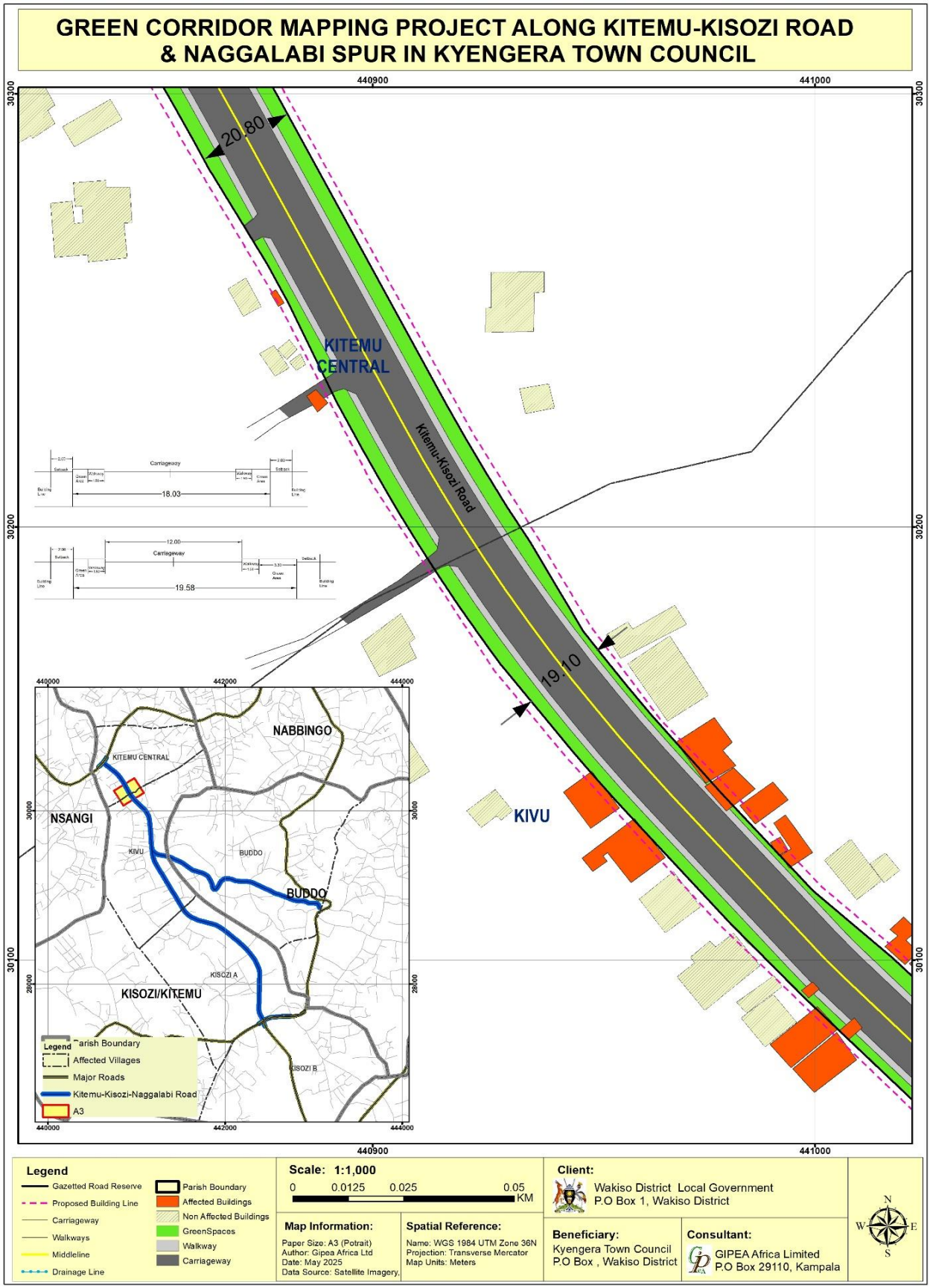
Source: NPPS&G

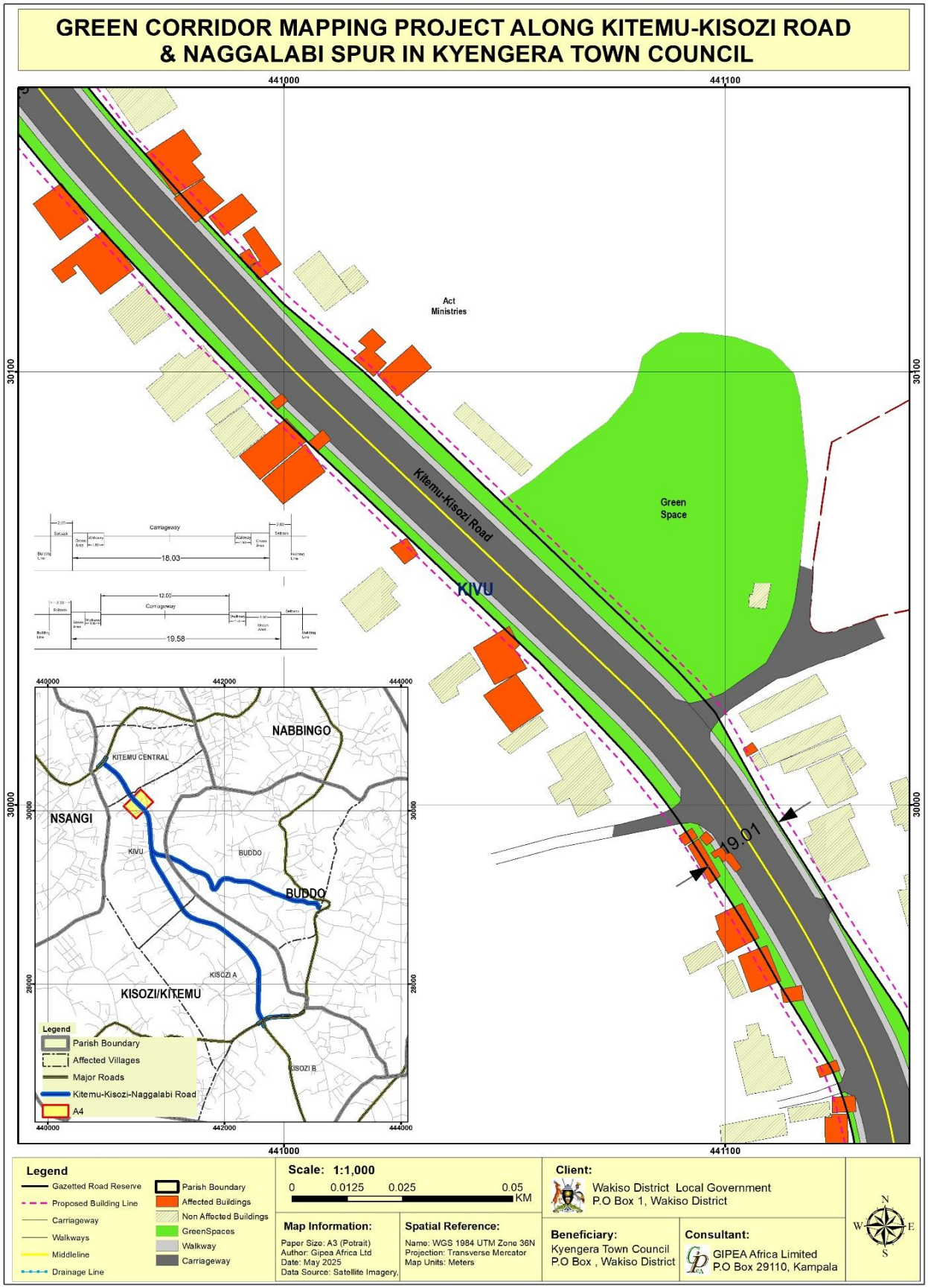
Map 2:Green Corridor Mapping along Kitemu-Kisozi Road and Naggalabi Spur in Kyengera TC.




GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
440600
440700
30500
30400
Kampala-Masaka Highway
Kitemu-Kisozi Road
17.50
20.01
19.80
KITEMU
TRADING CENTER
KITEMU
CENTRAL
12.00
Carriageway
19.58
Buddo Growers
Cooperative
St Charles
Lwanga SS
Kitemu
440000
442000
444000
30000
29000
NABBINGO
NSANGI
BUDDO
KISOZI/KITEMU
Legend
Parish Boundary
Major Roads
Kitemu-Kisozi-Naggalabi Road
A1
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
440800
440900
30400
30300
Buddo Growers Cooperative
St Charles Lwanga SS Kitemu
19.52
20.80
Kitemu-Kisozi Road
KITEMU CENTRAL
Carriageway
18.03
12.00
Carriageway
19.58
440000
442000
444000
30000
29000
NABBINGO
NSANGI
BUDDO
KISOZI/KITEMU
Legend
Parish Boundary
Major Roads
Kitemu-Kisozi-Naggalabi Road
A2
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
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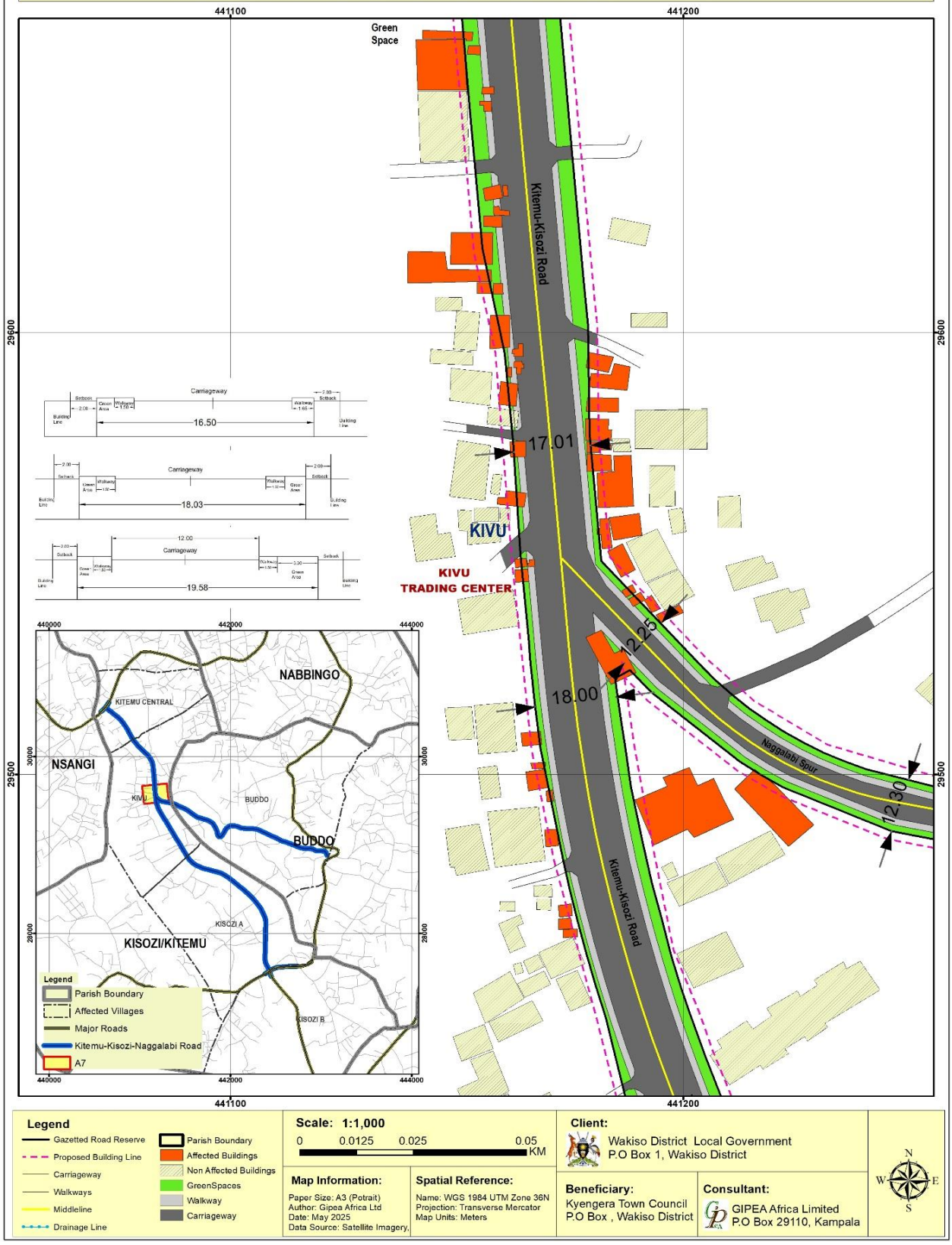

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
440900
441000
30300
30200
30100
20.80
19.10
KITEMU CENTRAL
Kitemu-Kisozi Road
KIVU
Carriageway
18.03
12.00
Carriageway
19.58
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A3
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
N
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S

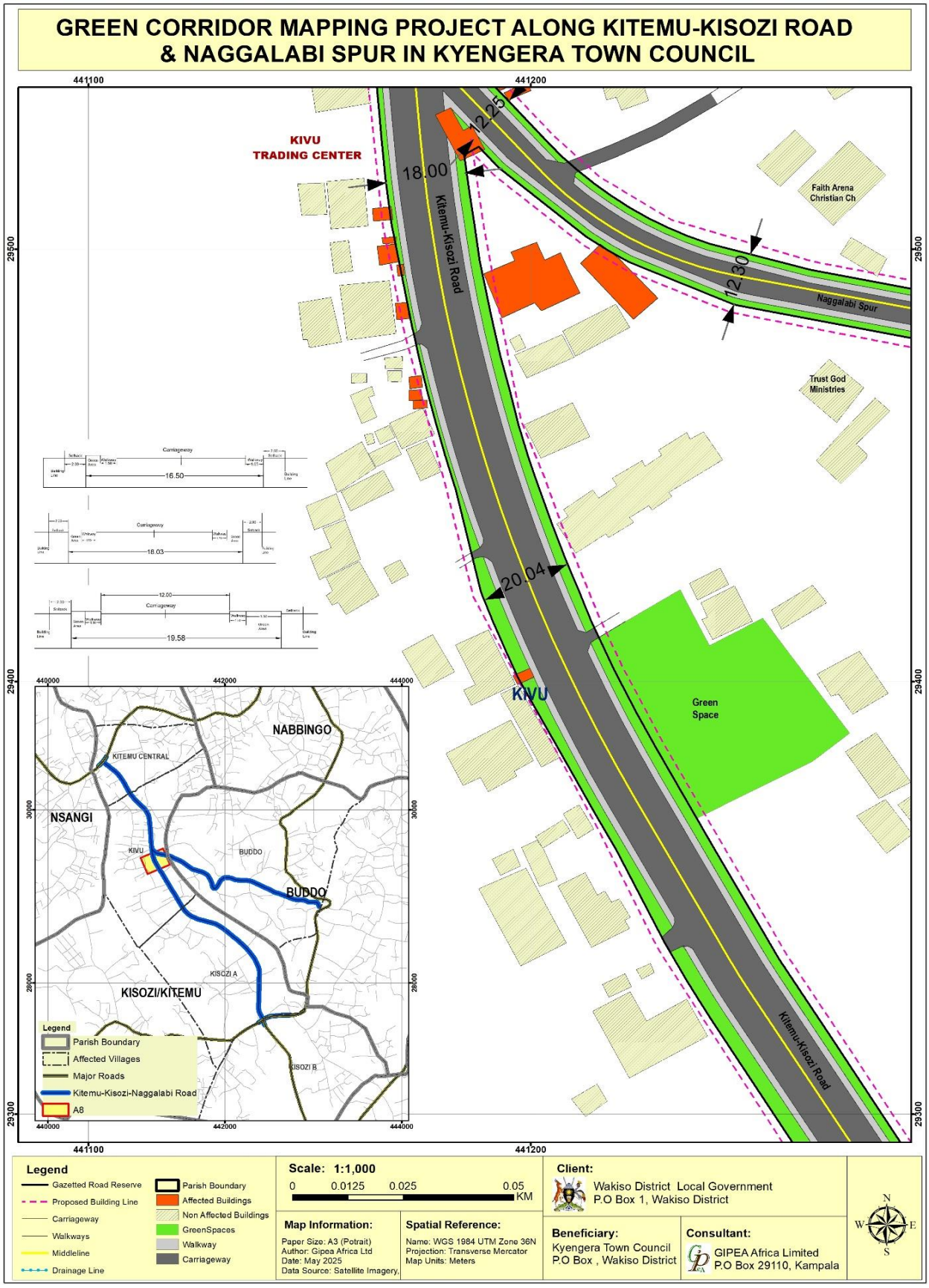

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441000
441100
30100
30000
Act
Ministries
Kitemu-Kisozi Road
KIVU
Green
Space
19.01
Carriageway
18.03
12.00
Carriageway
19.58
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A4
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
N
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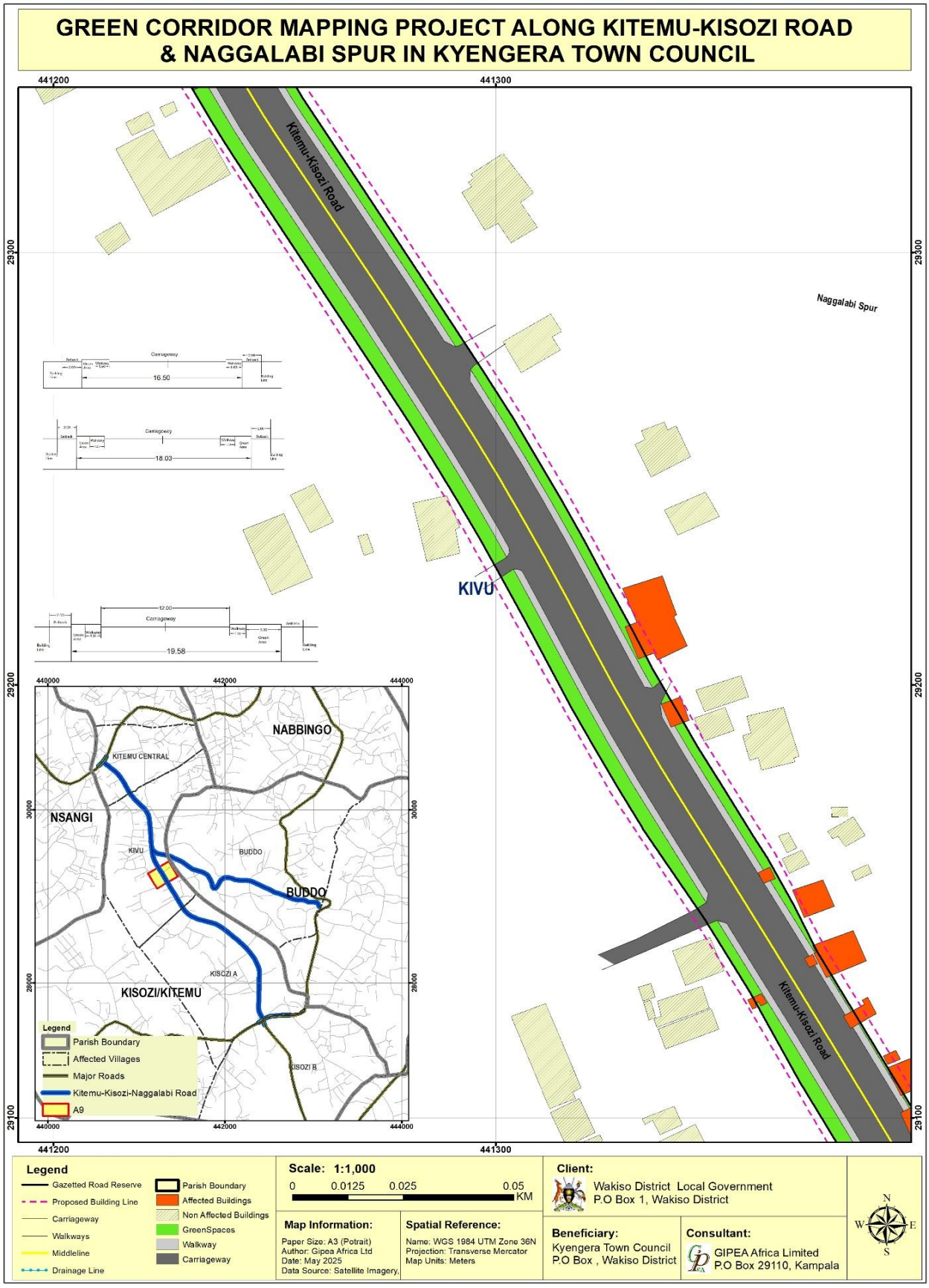

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441100
441200
30000
29900
29800
Green Space
19.01
16.53
Kitemu-Kisozi Road
KIVU
Carriageway
16.50
18.03
12.00
19.58
440000
442000
444000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A5
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
N
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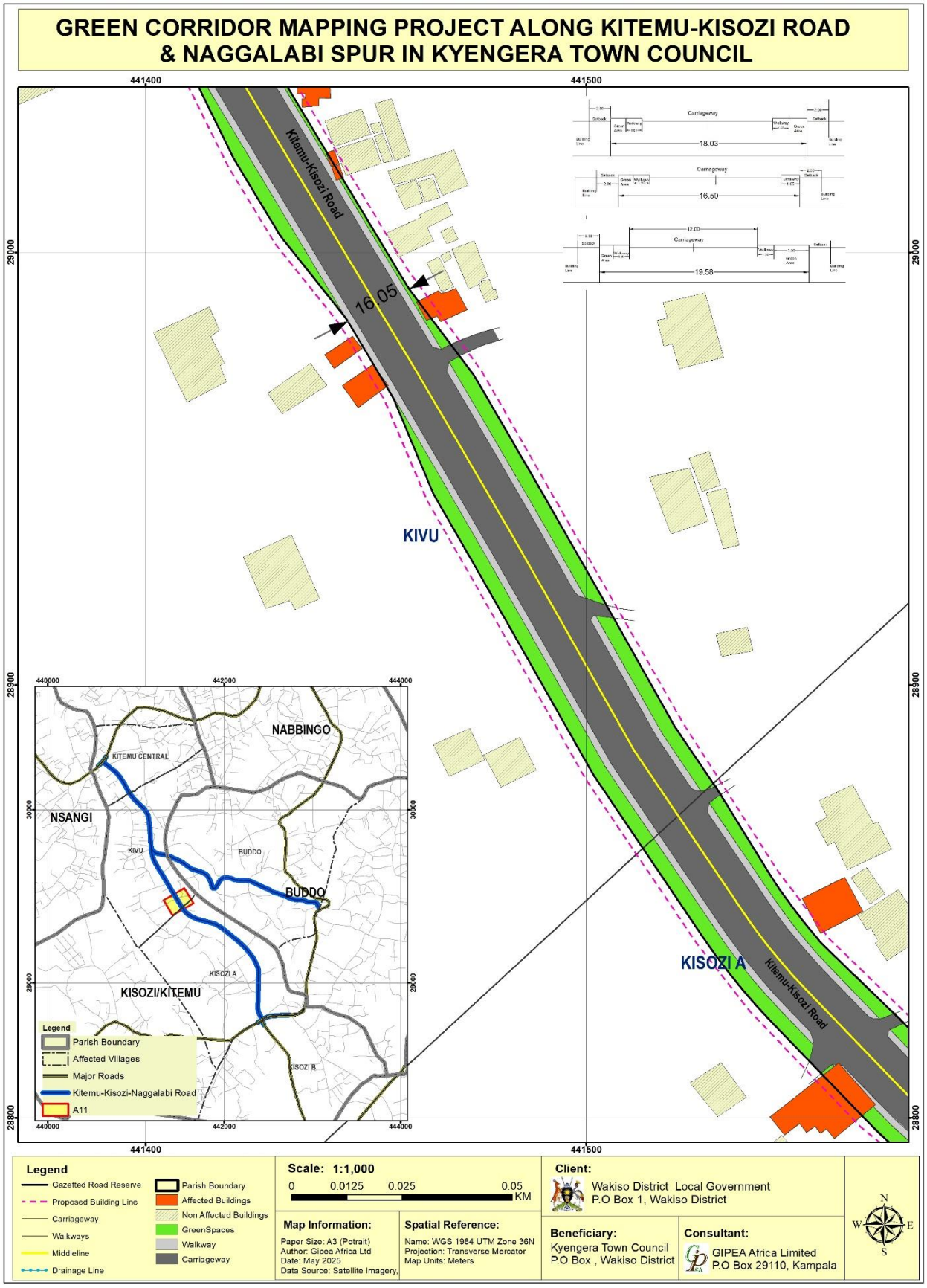

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441100
441200
29800
29700
29600
Green Space
16.53
Kitemu-Kisozi Road
KIVU
21.02
Carriageway
16.50
18.03
12.00
19.58
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A6
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
N
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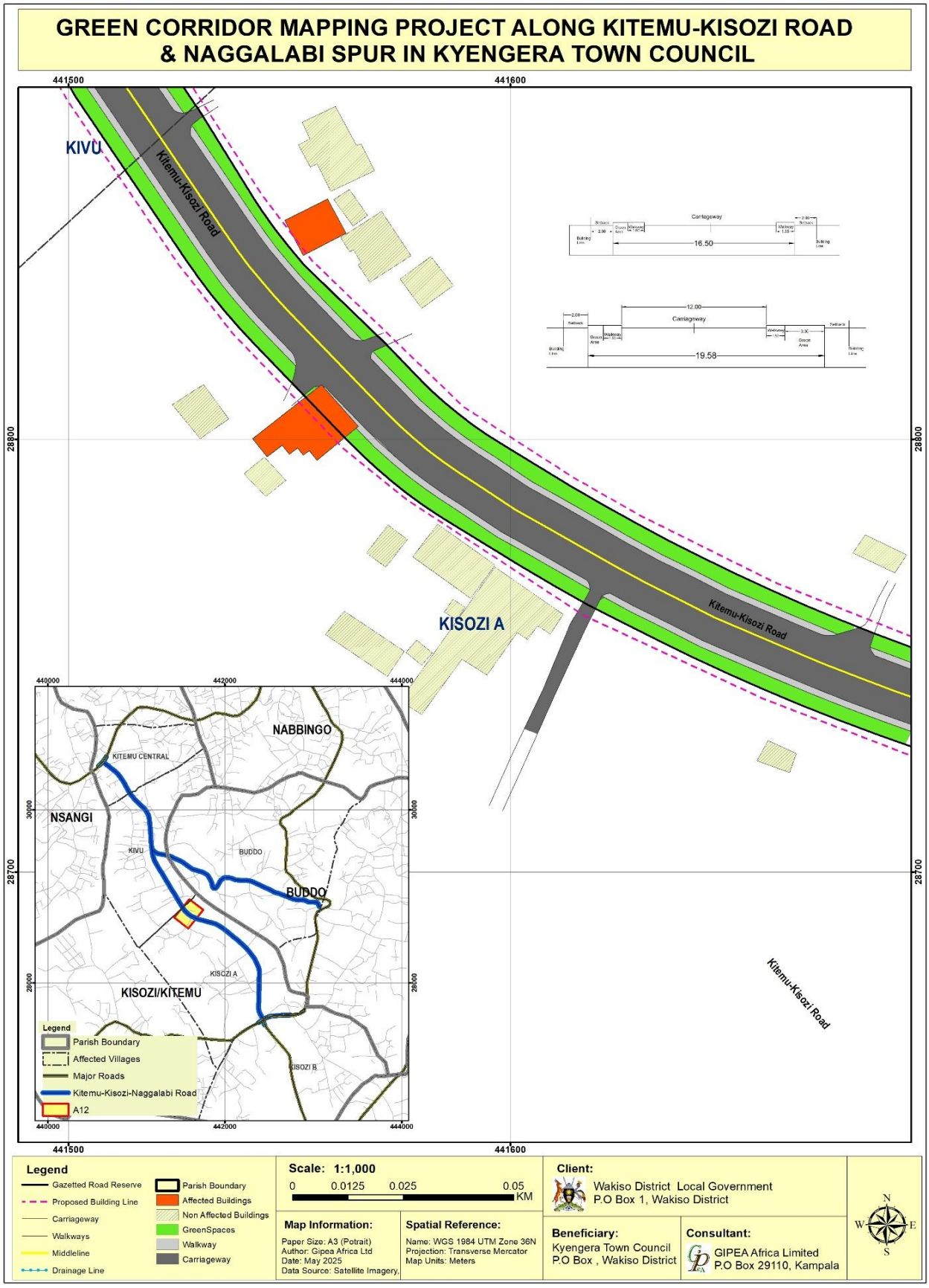
GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD & NAGGALABI SPUR IN KYENGERA TOWN COUNCIL

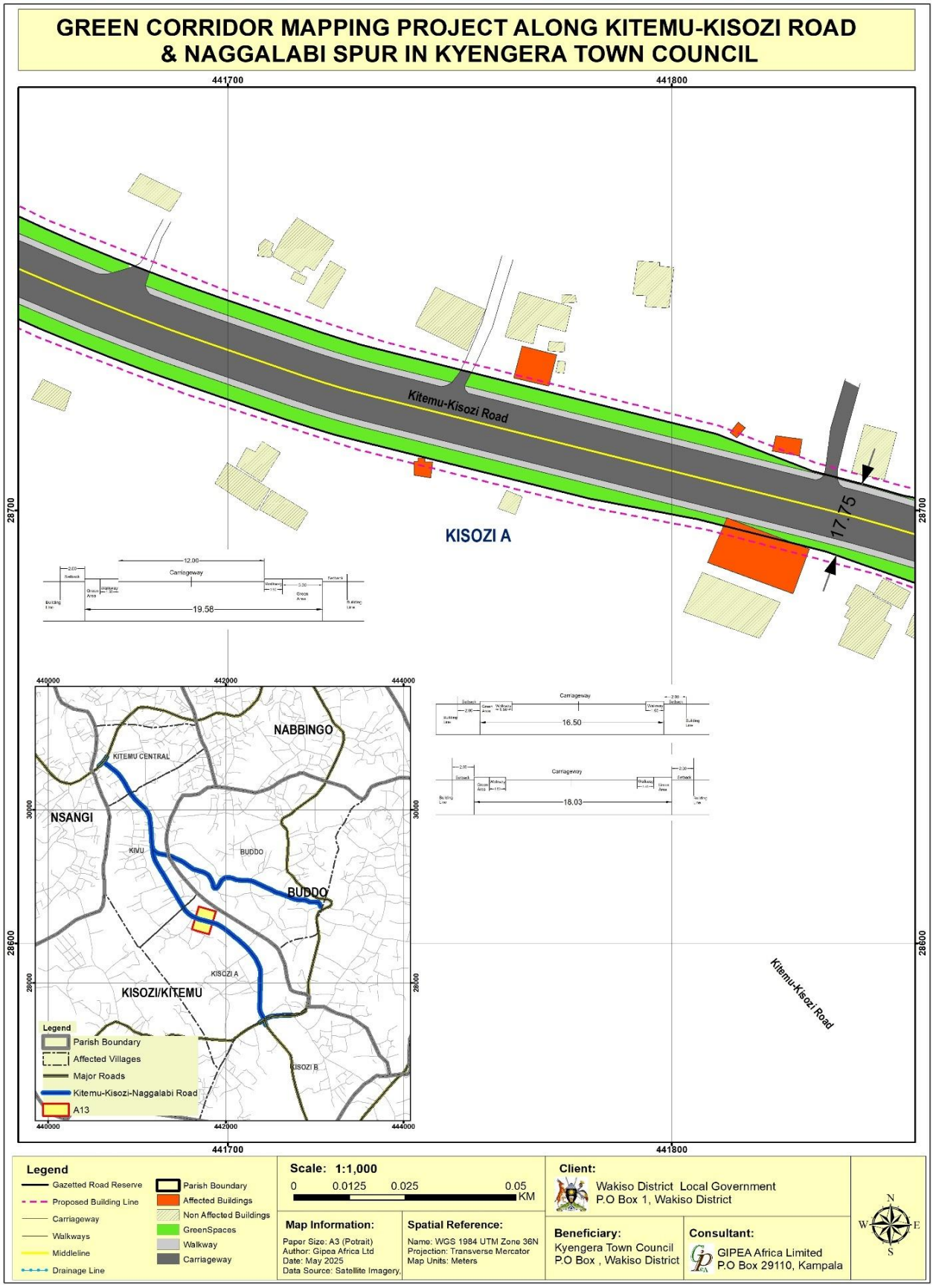


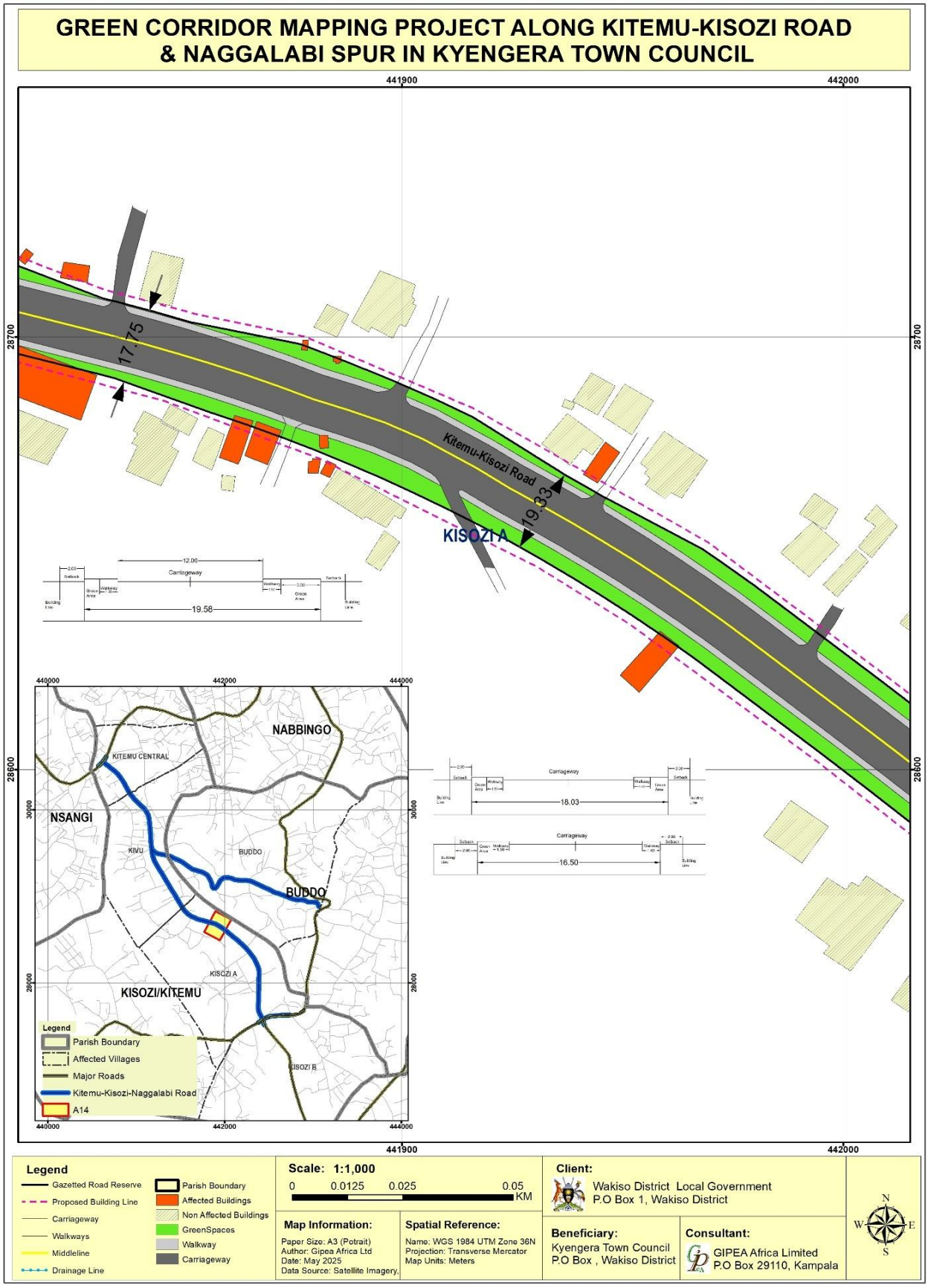

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD & NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
KIVU TRADING CENTER
Kitemu-Kisozi Road
Naggalabi Spur
Faith Arena Christian Ch
Trust God Ministries
Green Space
KIVU
18.00
12.25
12.30
20.04
16.50
18.03
19.58
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A8
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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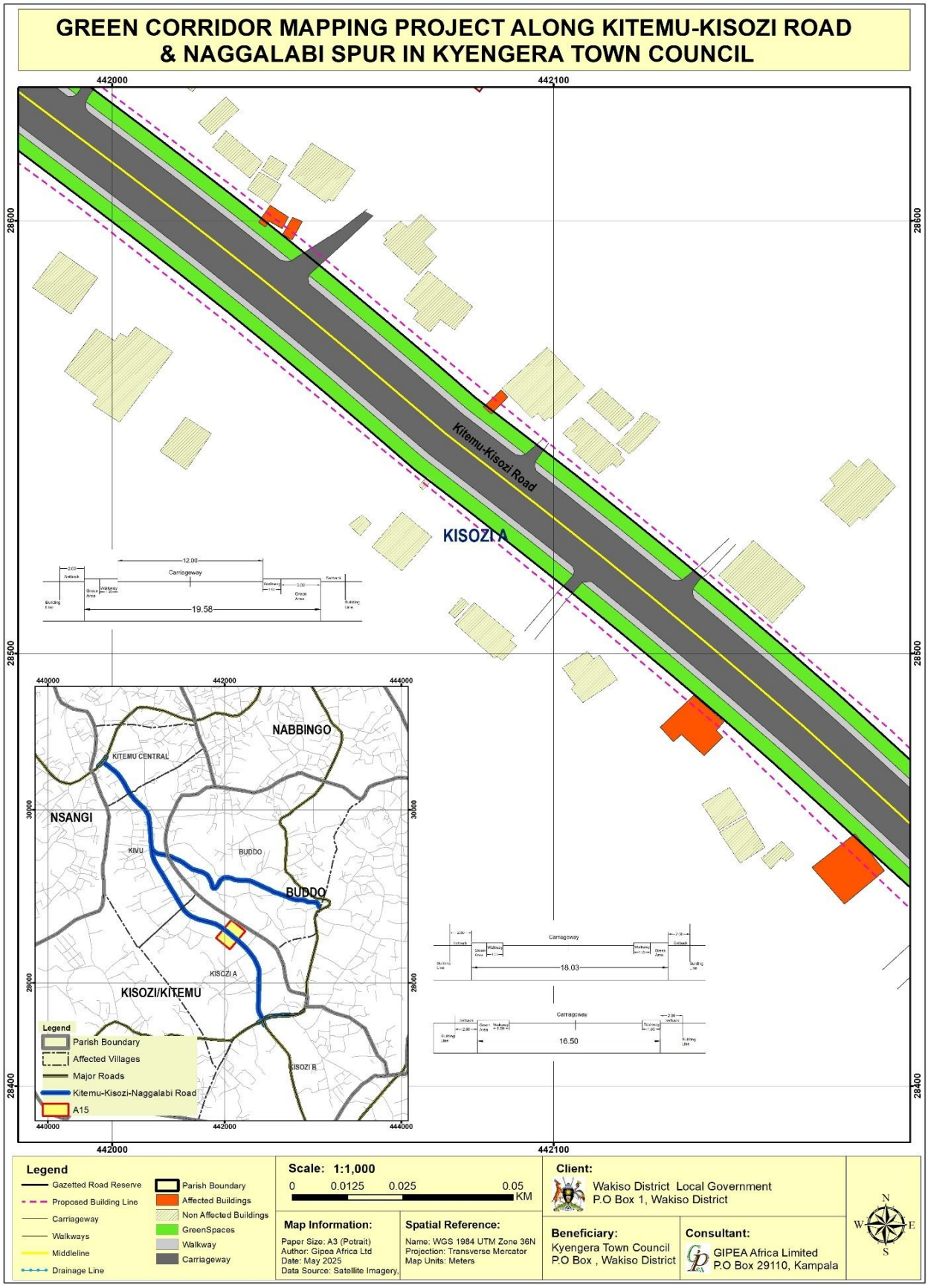

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441200
441300
29300
29200
29100
Kitemu-Kisozi Road
Naggalabi Spur
KIVU
Carriageway
16.50
18.03
19.58
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A9
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441400
441500
29000
28900
28800
Kitemu-Kisozi Road
16.05
KIVU
KISOZI A
Carriageway
18.03
16.50
19.58
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A11
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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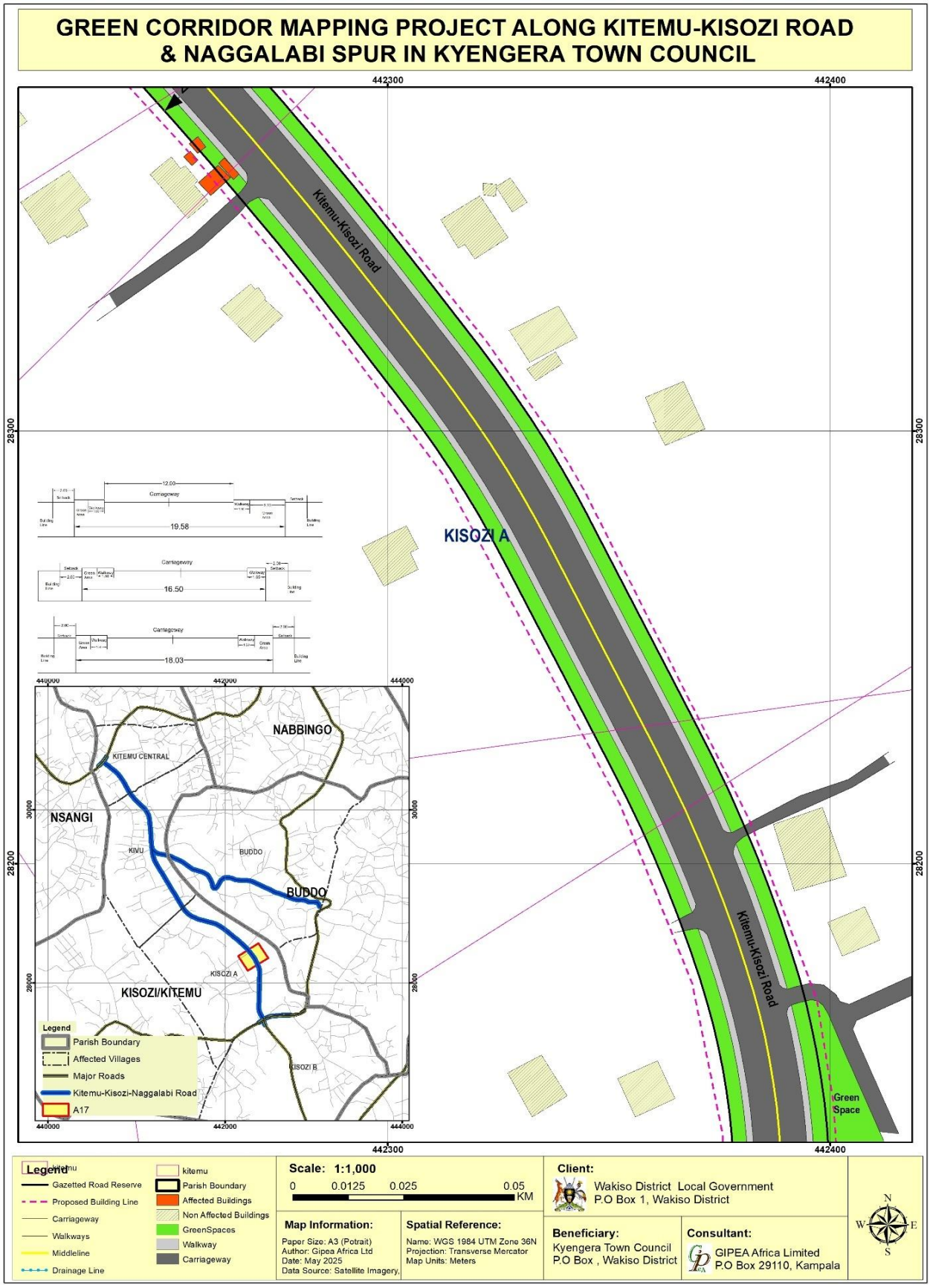

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441500
441600
28800
28700
KIVU
Kitemu-Kisozi Road
Carriageway
16.50
12.00
Carriageway
19.58
KISOZI A
Kitemu-Kisozi Road
Kitemu-Kisozi Road
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A12
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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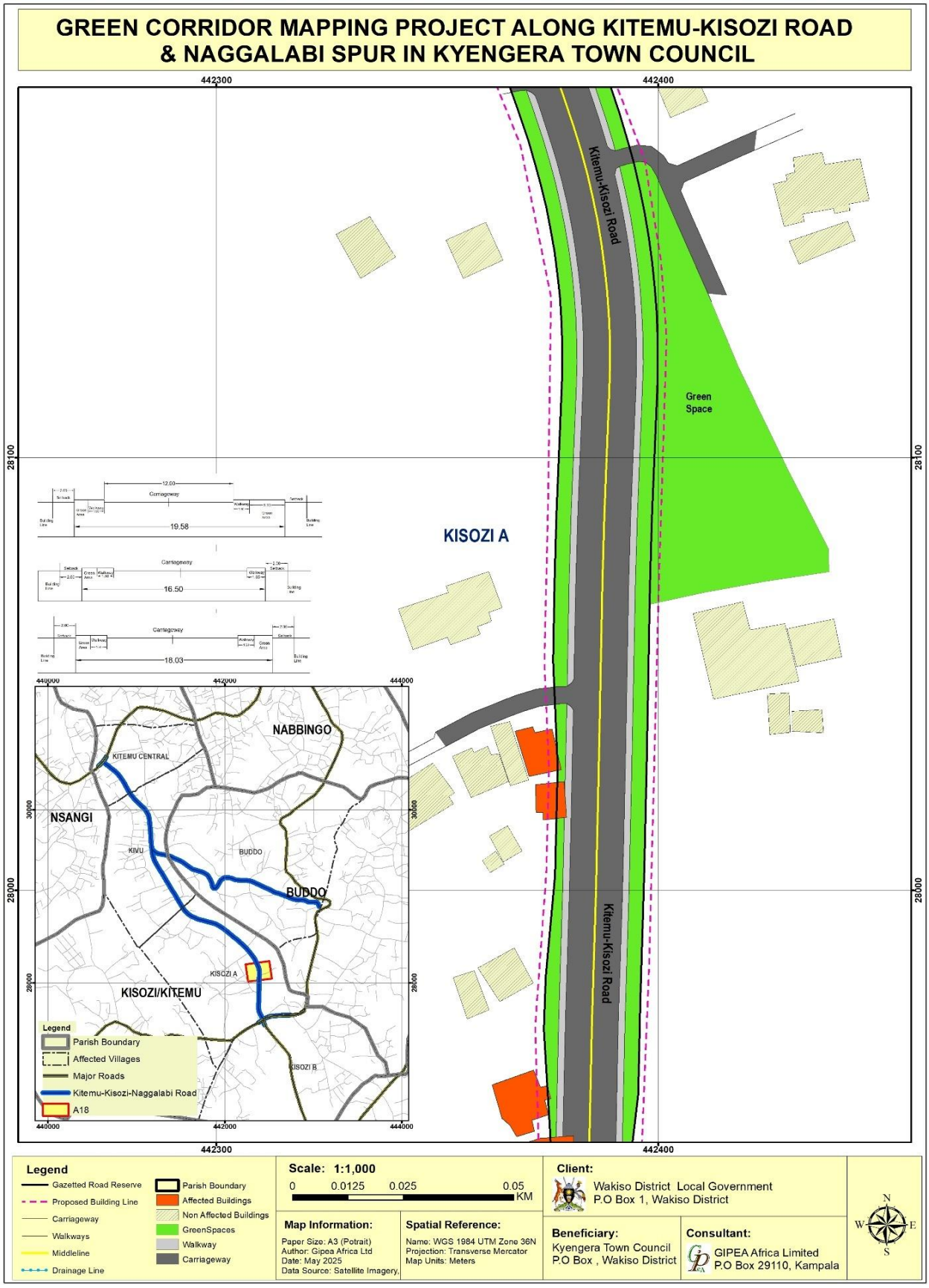

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441700
441800
28700
28600
Kitemu-Kisozi Road
KISOZI A
17.75
12.00
Carriageway
19.58
16.50
18.03
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A13
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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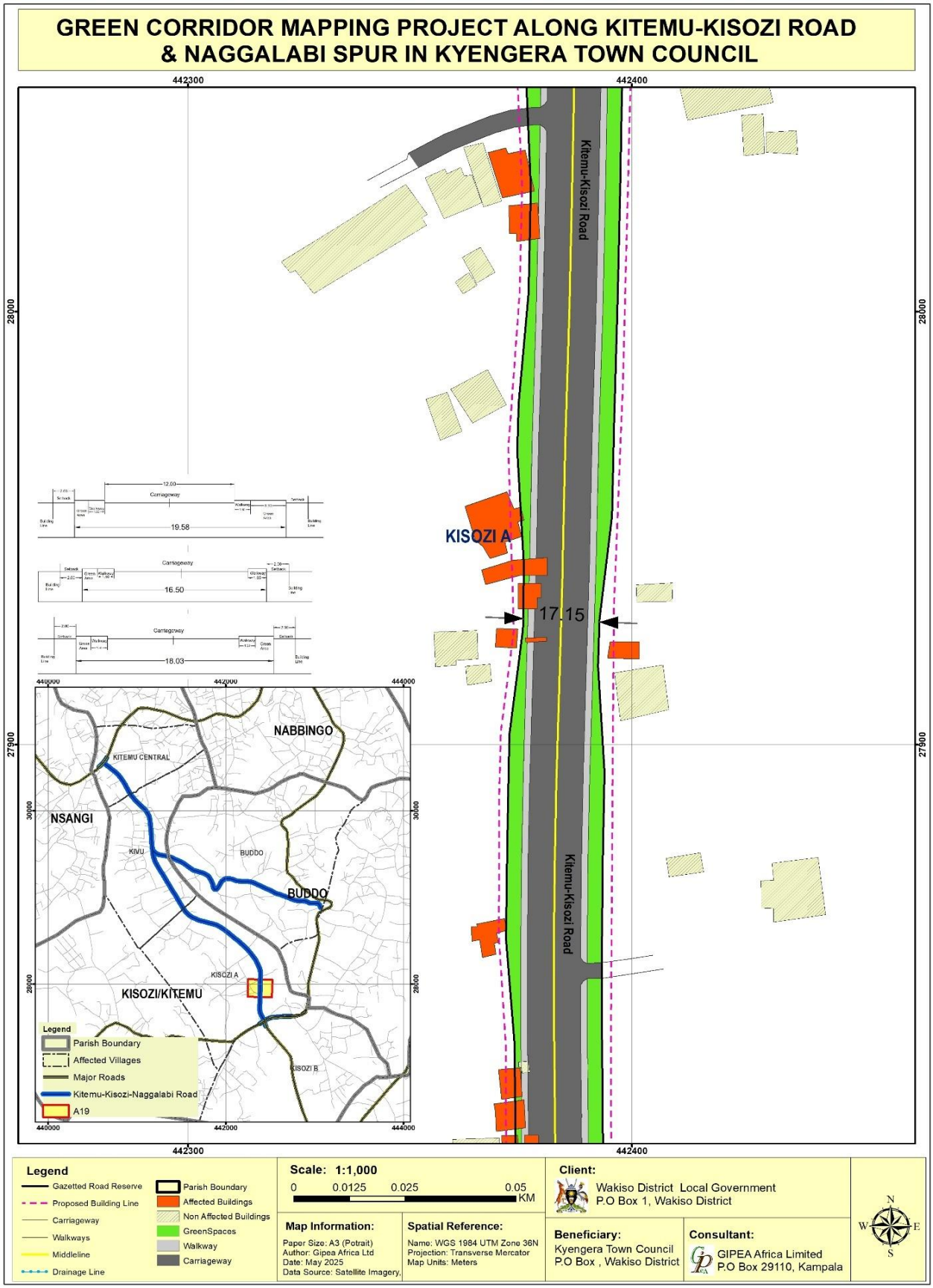

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD & NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441900
442000
28700
28600
17.75
19.33
Kitemu-Kisozi Road
KISOZI A
12.00
Carriageway
19.58
18.03
16.50
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIMU
BUDDO
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A14
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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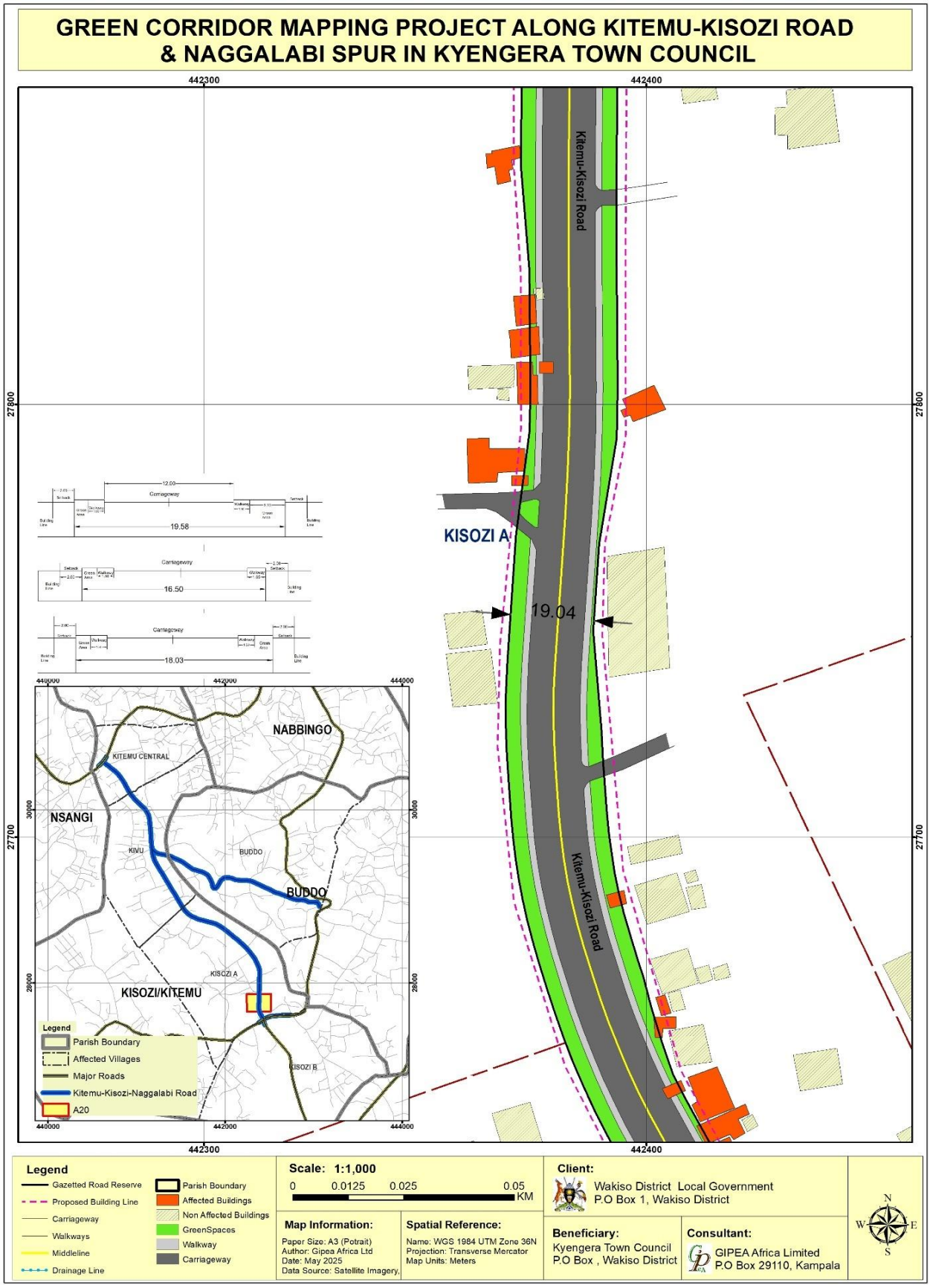

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442000
442100
28600
28500
28400
Kitemu-Kisozi Road
KISOZI A
12.00
Carriageway
19.58
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIMU
BUDDO
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A15
Carriageway
18.03
16.50
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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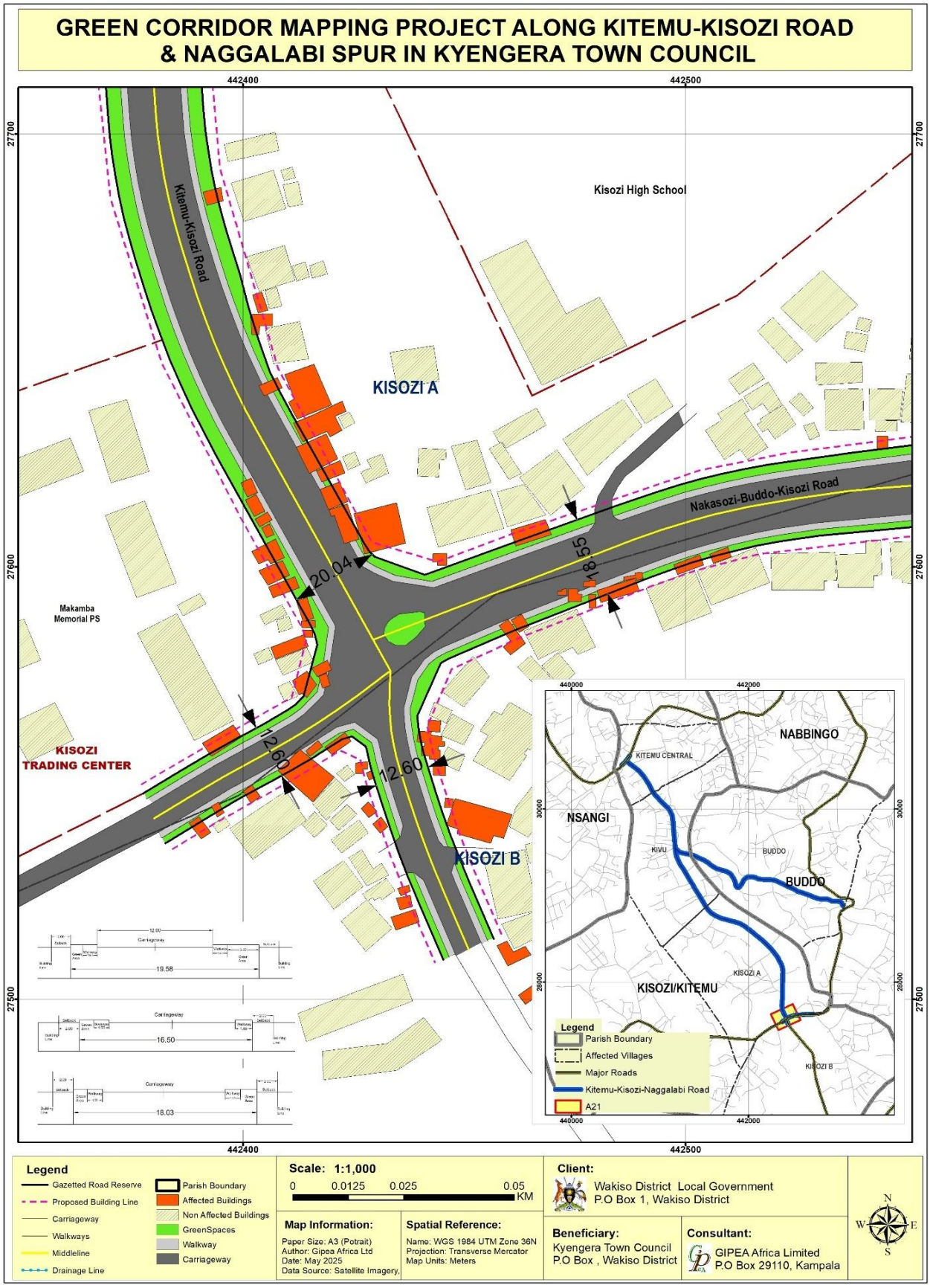

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442100
442200
442300
28500
28400
28300
Kitemu-Kisozi Road
KISOZI A
21.51
12.00
Carriageway
19.58
16.50
18.03
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A16
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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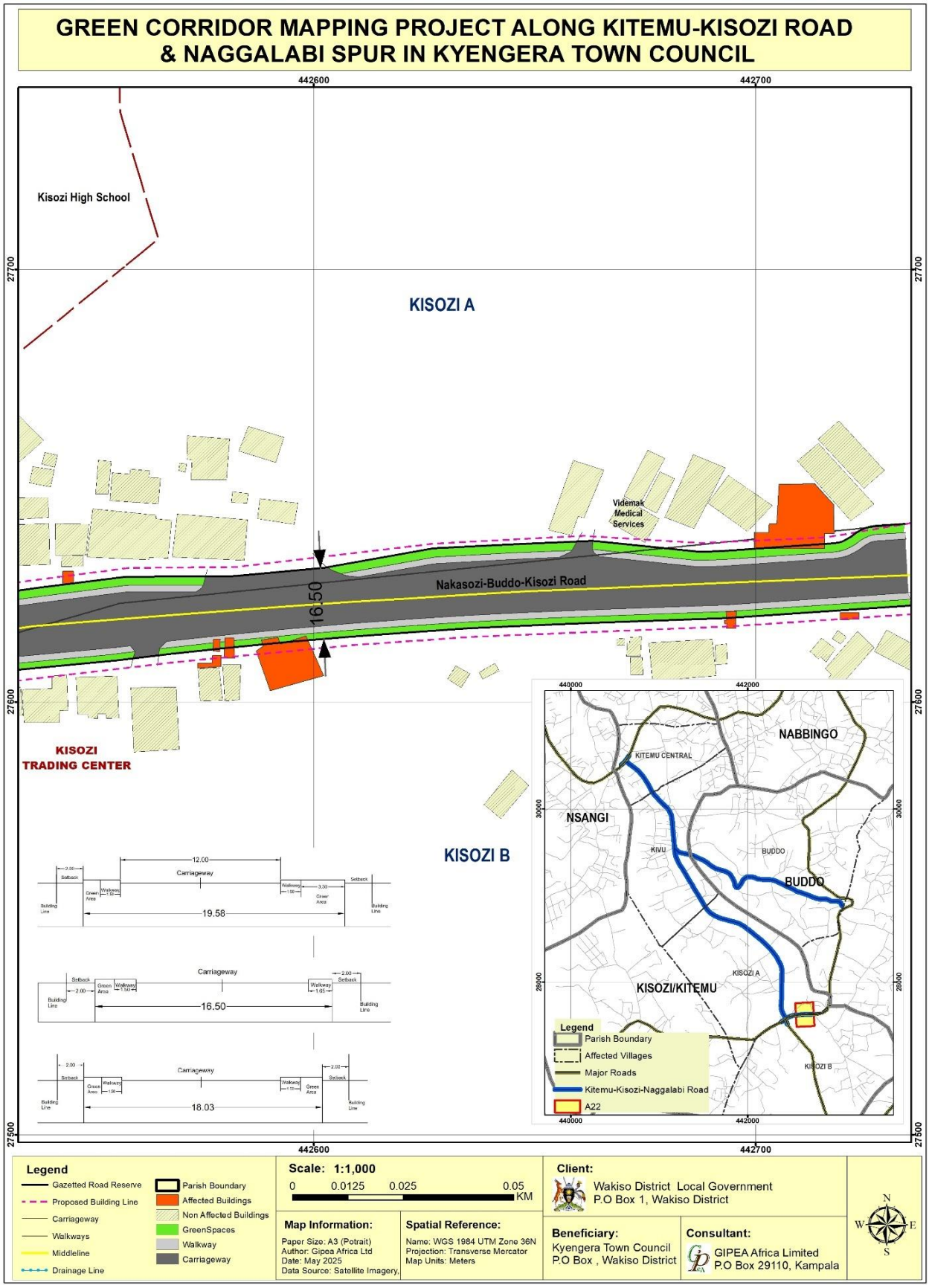

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442300
442400
28300
28200
Kitemu-Kisozi Road
KISOZI A
12.00
Carriageway
19.58
16.50
18.03
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A17
Green Space
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
kitemu
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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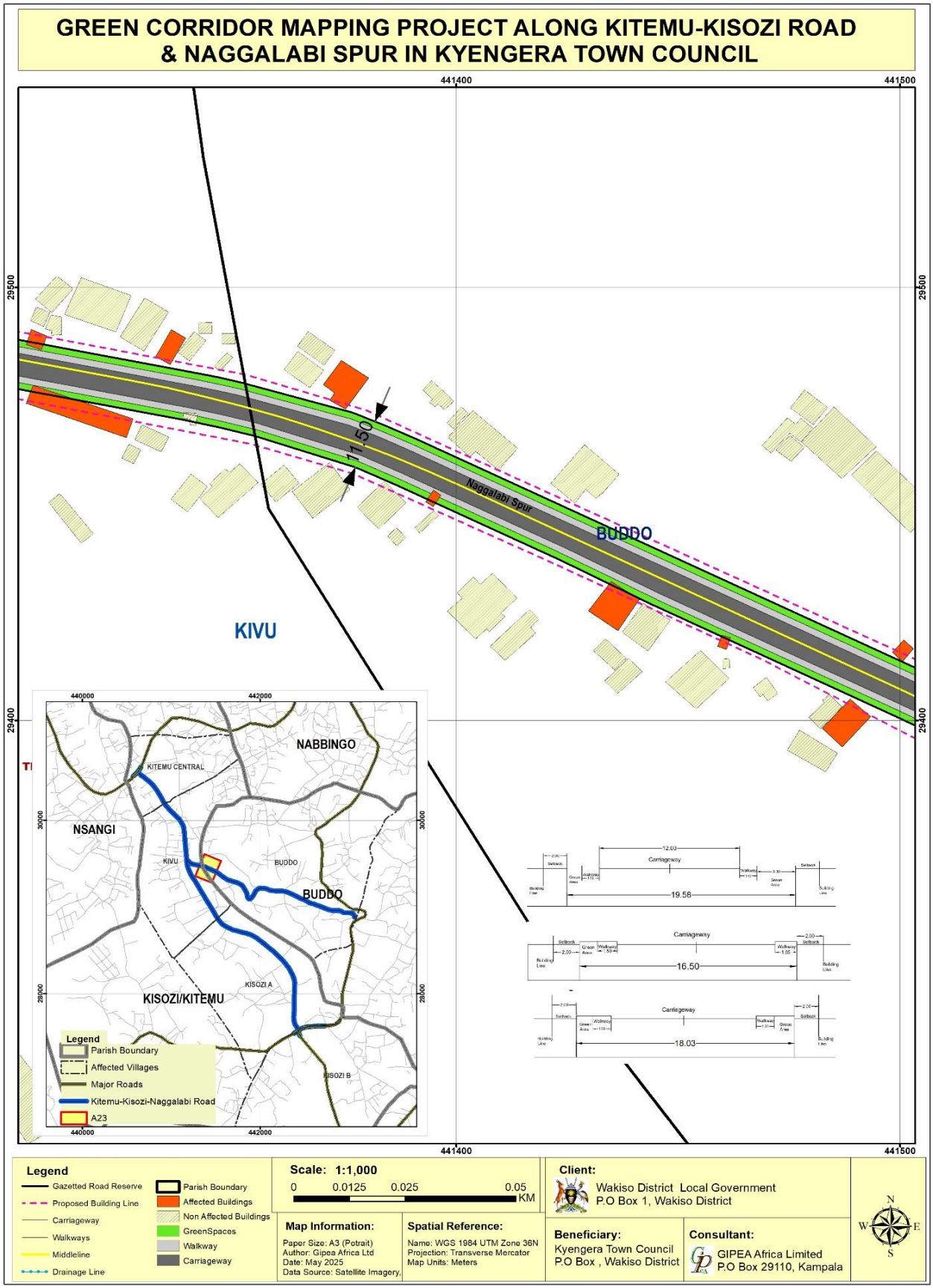

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD & NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442300
442400
28100
28000
Kitemu-Kisozi Road
Green Space
KISOZI A
12.00
Carriageway
19.58
16.50
18.03
440000
442000
444000
30000
29000
NABBINGO
KITEMU CENTRAL
NSANGI
KIMU
BUDDO
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A18
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442300
442400
28000
27900
30000
Kitemu-Kisozi Road
KISOZI A
17.15
12.00
Carriageway
19.58
16.50
18.03
440000
442000
444000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A19
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442300
442400
27800
27700
Kitemu-Kisozi Road
KISOZI A
19.04
12.00
Carriageway
19.58
16.50
18.03
440000
442000
444000
30000
28000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A20
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442400
442500
27700
27600
27500
Kitemu-Kisozi Road
Kisozi High School
KISOZI A
Nakasozi-Buddo-Kisozi Road
20.04
18.55
Makamba
Memorial PS
KISOZI
TRADING CENTER
12.60
12.60
KISOZI B
19.58
16.50
18.03
Carriageway
440000
442000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
30000
28000
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A21
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
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Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD & NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442600
442700
27700
27600
27500
Kisozi High School
KISOZI A
KISOZI B
Videmak Medical Services
Nakasozi-Buddo-Kisozi Road
16.50
KISOZI TRADING CENTER
12.00
Carriageway
19.58
16.50
18.03
Setback
Green Area
Walkway
Building Line
440000
442000
30000
28000
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A22
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
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Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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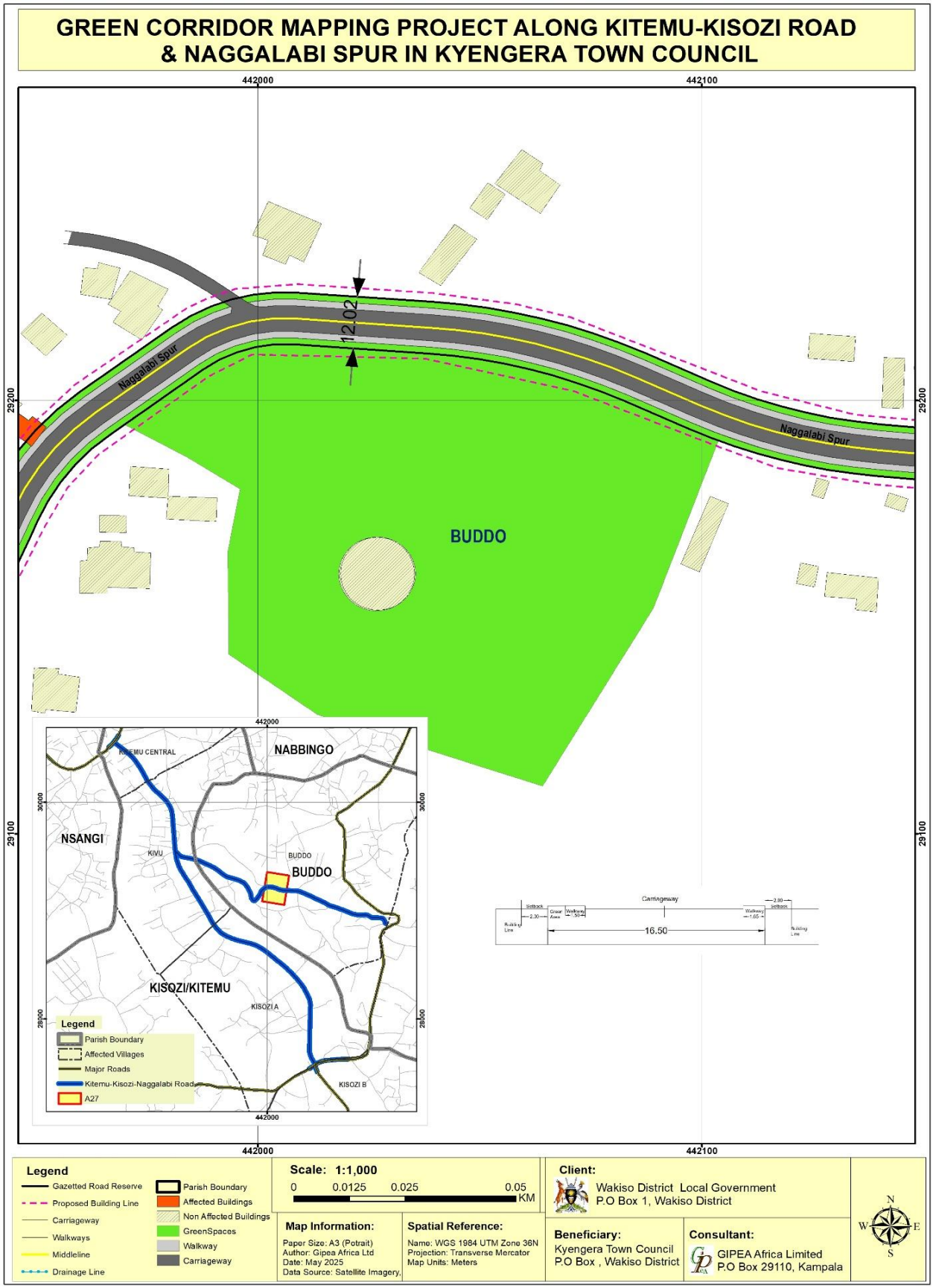

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441400
441500
29500
29400
Naggalabi Spur
BUDDO
KIVU
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI/KITEMU
KISOZI A
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A23
12.00
Carriageway
19.58
16.50
18.03
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441500
441600
29400
29300
Nit Kindergaten
& Junior Sch
12.00
Naggalabi Spur
BUDDO
440000
442000
30000
28000
NABBINGO
KITEMU CENTRAL
NSANGI
KIMU
BUDDO
BUDDO
KISOZI A
KISOZI/KITEMU
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A24
Carriageway
19.58
16.50
18.03
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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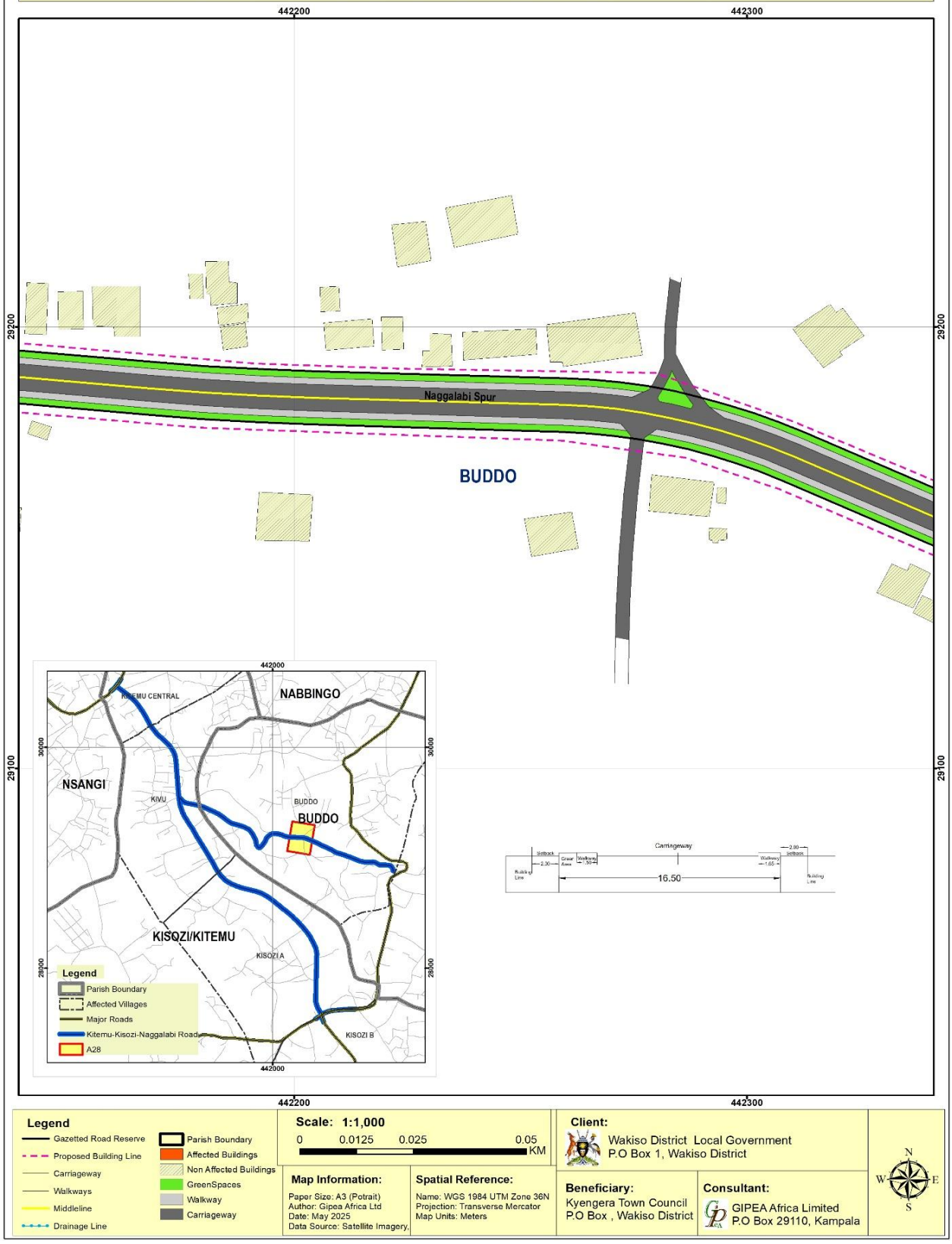
GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD & NAGGALABI SPUR IN KYENGERA TOWN COUNCIL




GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
441800
441900
442000
29300
29200
29100
30000
29000
KITEMU CENTRAL
NABBINGO
NSANGI
KIVU
BUDDO
BUDDO
KISOZI/KITEMU
KISOZI A
KISOZI B
Legend
BUDDO
Naggalabi Spur
12.00
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442000
442100
29200
29100
12.02
Naggalabi Spur
Naggalabi Spur
BUDDO
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI/KITEMU
KISOZI A
KISOZI B
30000
28900
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A27
Carriageway
Setback
Grass Area
Walkway
16.50
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD & NAGGALABI SPUR IN KYENGERA TOWN COUNCIL



Legend

- Gazetted Road Reserve
- Proposed Building Line
- Carriageway
- Walkways
- Middleline
- Drainage Line
- Parish Boundary
- Affected Buildings
- Non Affected Buildings
- GreenSpaces
- Walkway
- Carriageway

Scale: 1:1,000

0 0.0125 0.025 0.05 KM

Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.

Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters

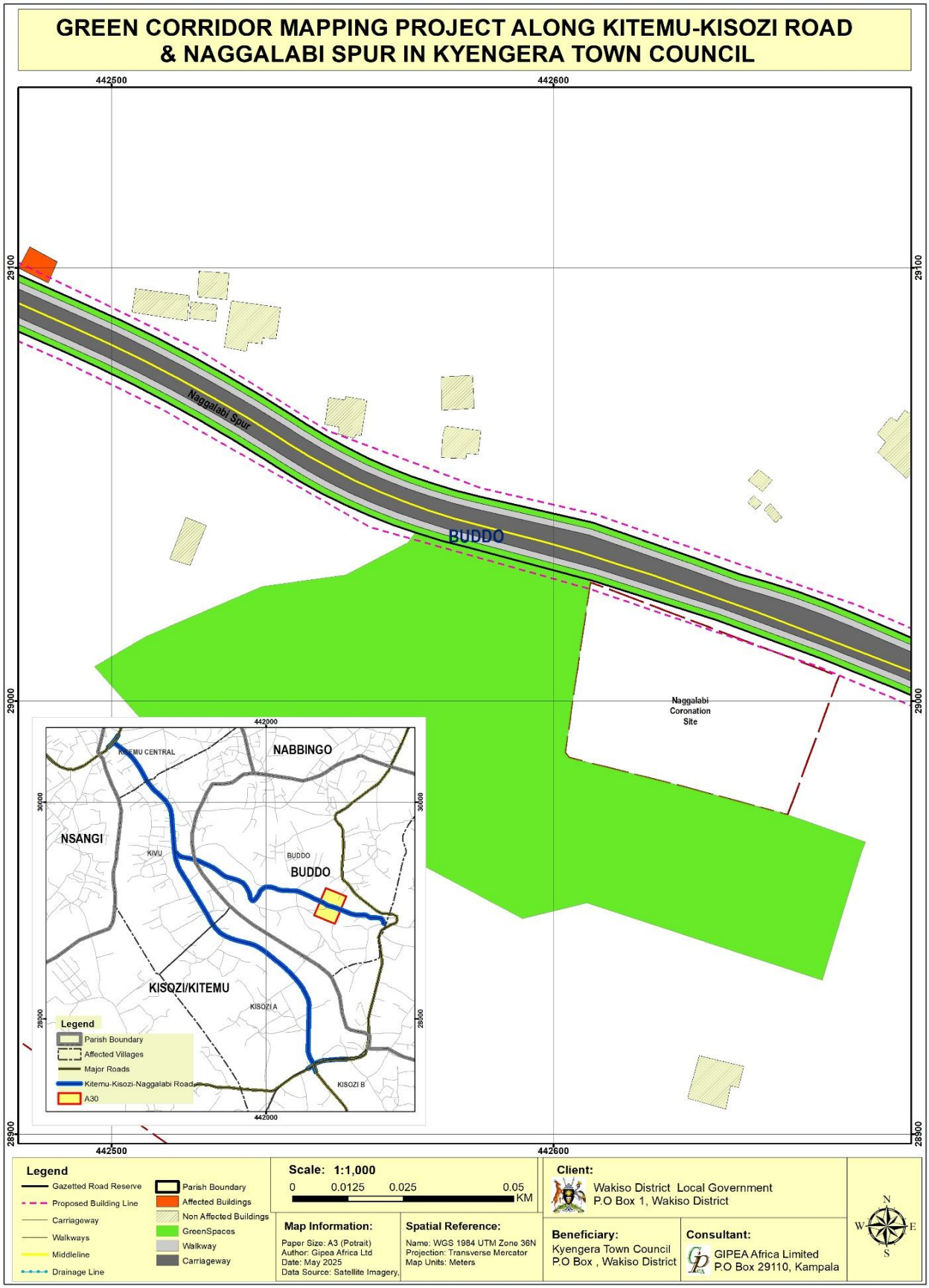
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Wakiso District Local Government
P.O Box 1, Wakiso District

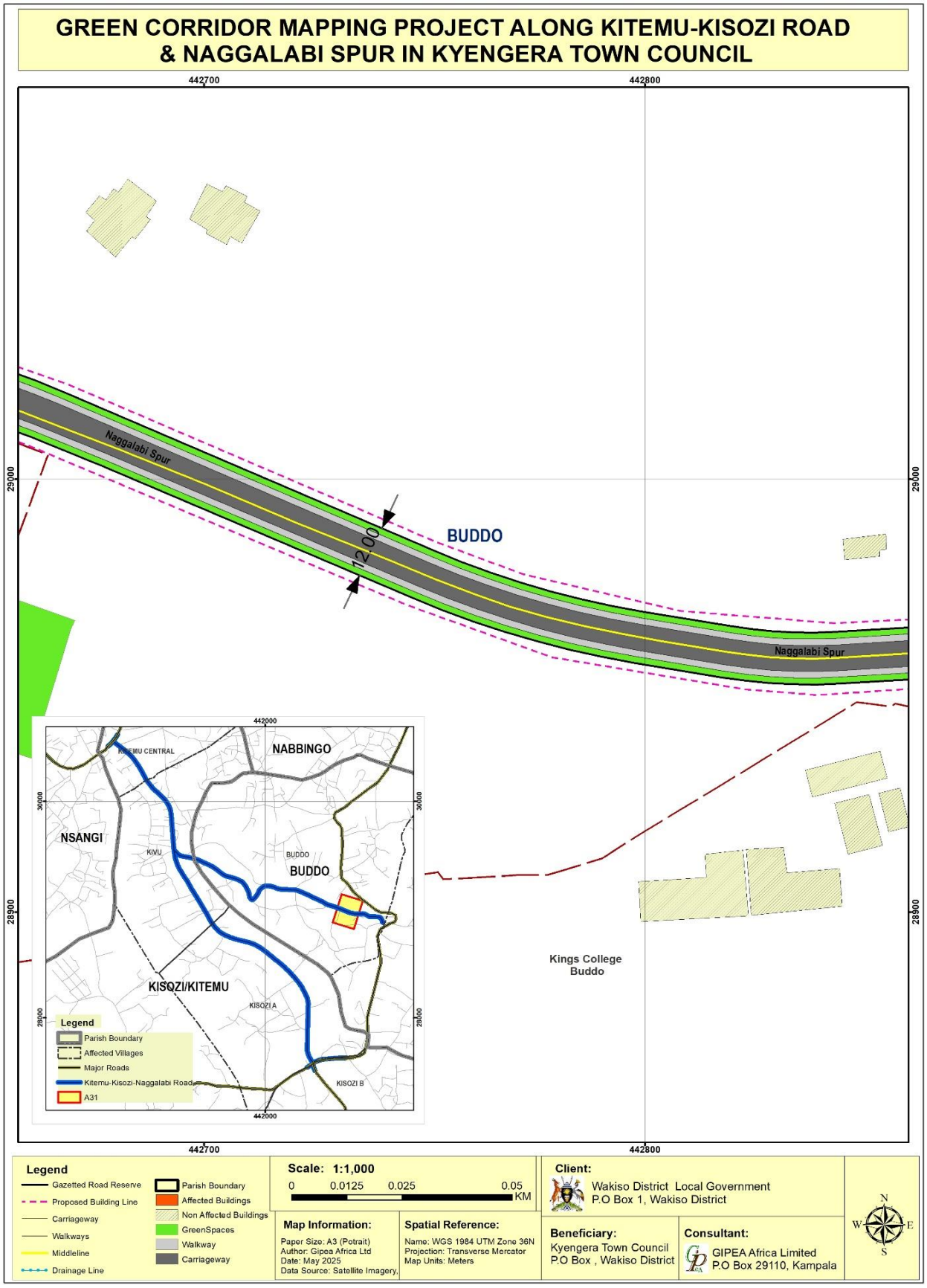
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District

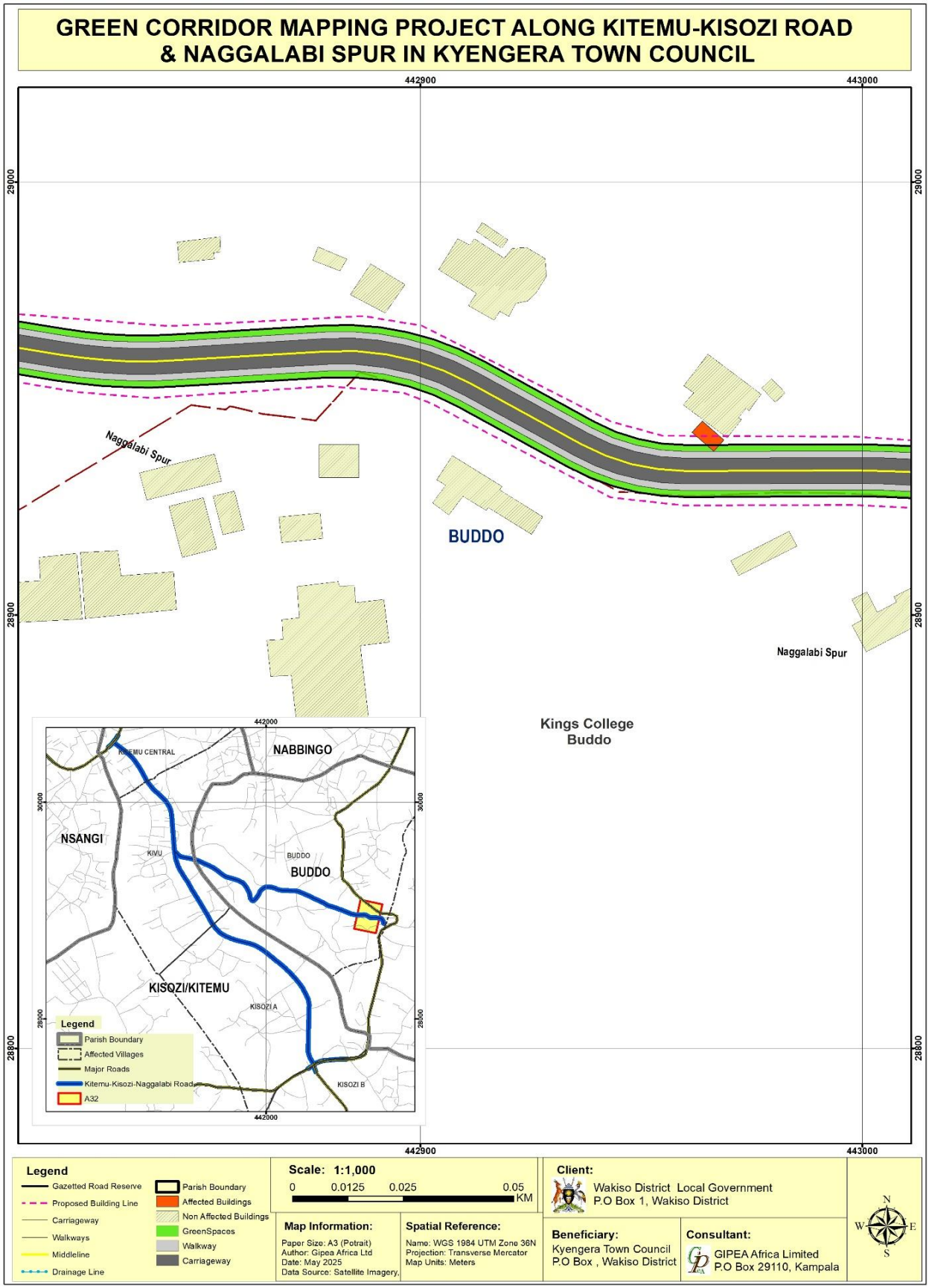
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

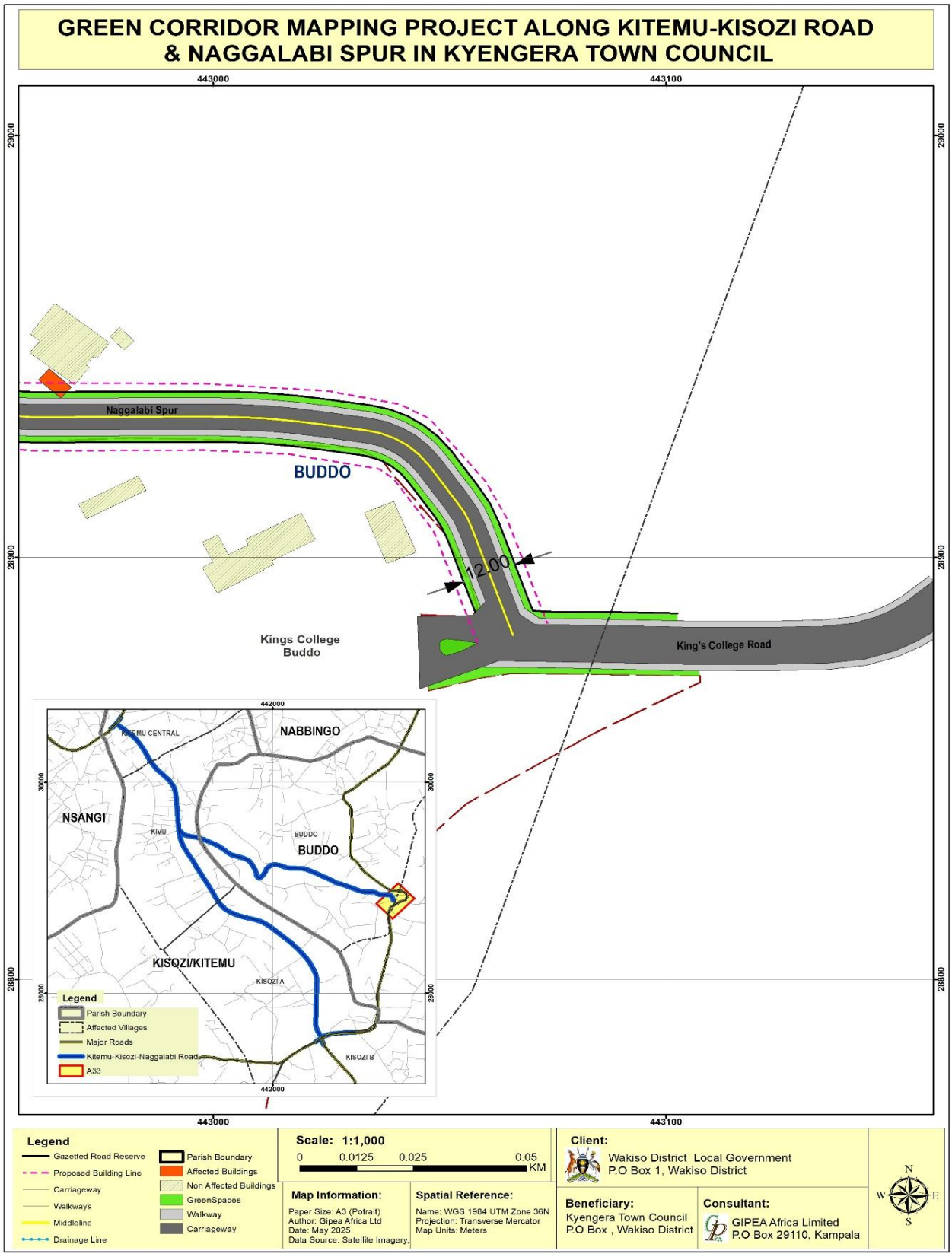
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GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442400
442500
29200
29100
29000
Naggalabi Spur
BUDDO
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
KISOZI/KITEMU
KISOZI A
KISOZI B
30000
28000
442000
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A29
Carriageway
16.50
Setback
Walkway
Building Line
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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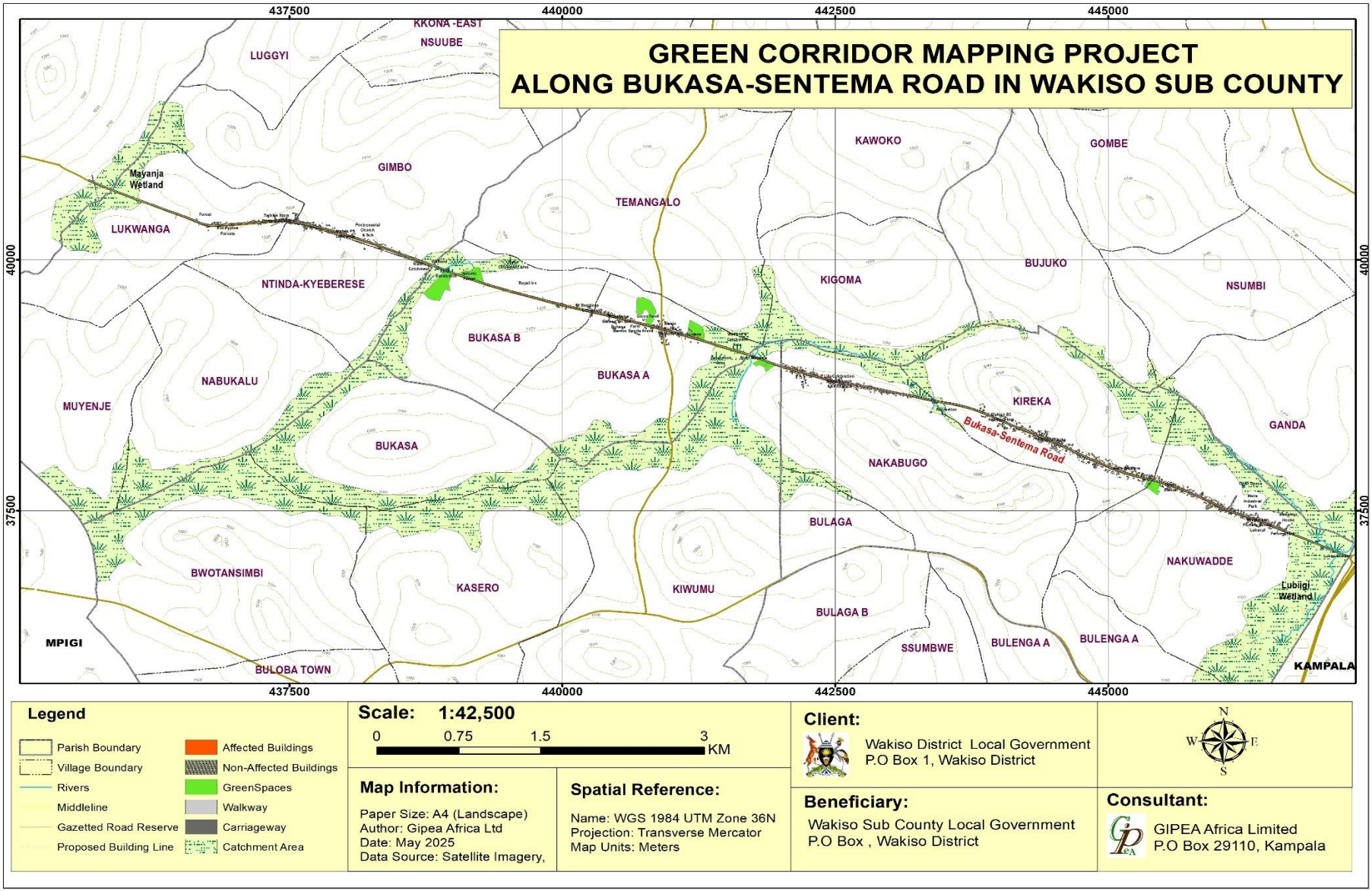

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442500
442600
29100
29000
28900
Naggalabi Spur
BUDDO
Naggalabi
Coronation
Site
442000
30000
28000
KITEMU CENTRAL
NABBINGO
NSANGI
KIVU
BUDDO
BUDDO
KISOZI/KITEMU
KISOZI A
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A30
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
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Map Information:
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Name: WGS 1984 UTM Zone 36N
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Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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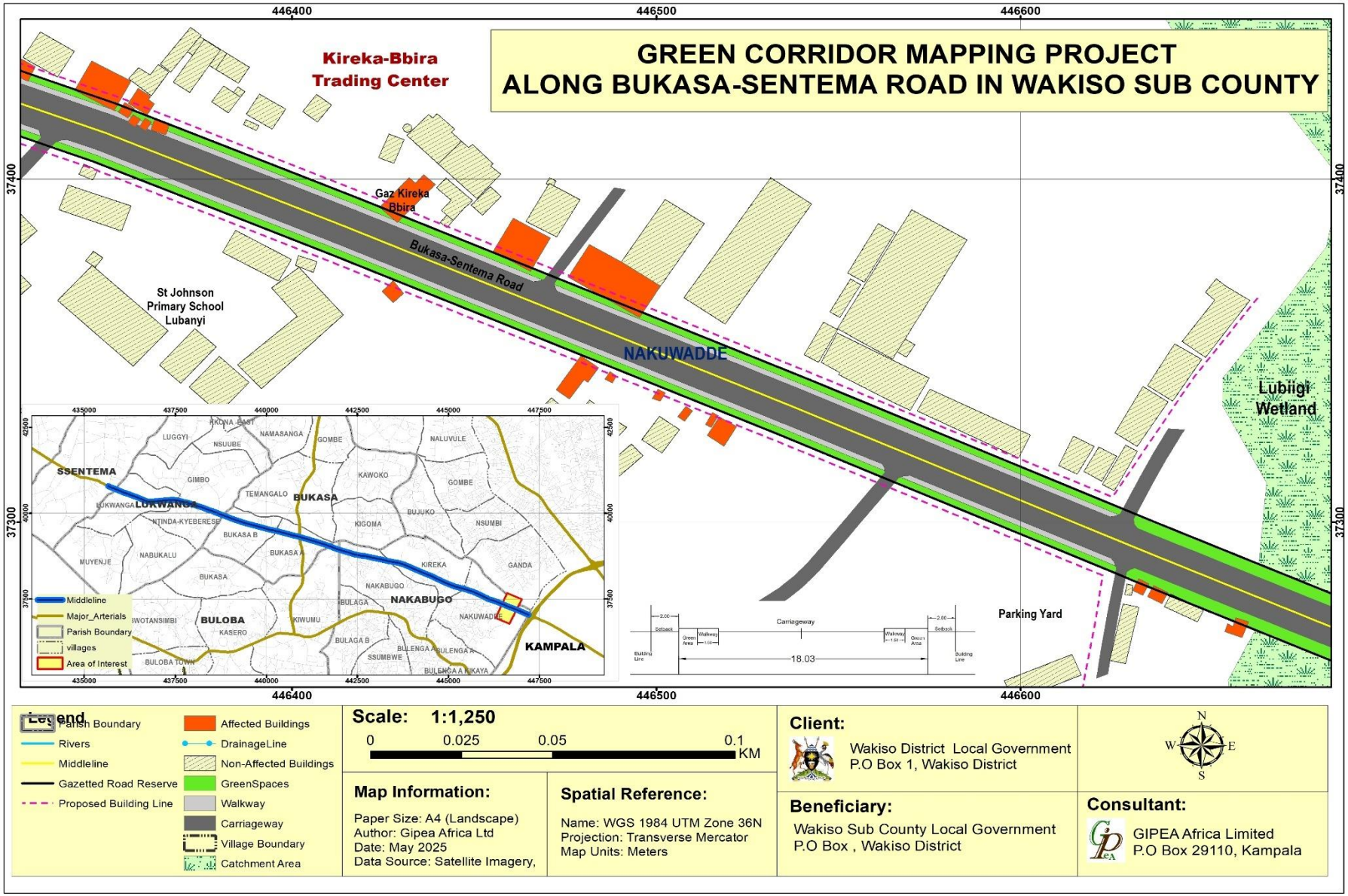

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD & NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442700
442800
29000
28900
Naggalabi Spur
12.00
BUDDO
Naggalabi Spur
Kings College Buddo
442000
30000
28000
KITEMU CENTRAL
NABBINGO
NSANGI
KIVU
BUDDO
BUDDO
KISOZI/KITEMU
KISOZI A
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A31
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
Paper Size: A3 (Potrait)
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Spatial Reference:
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Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
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P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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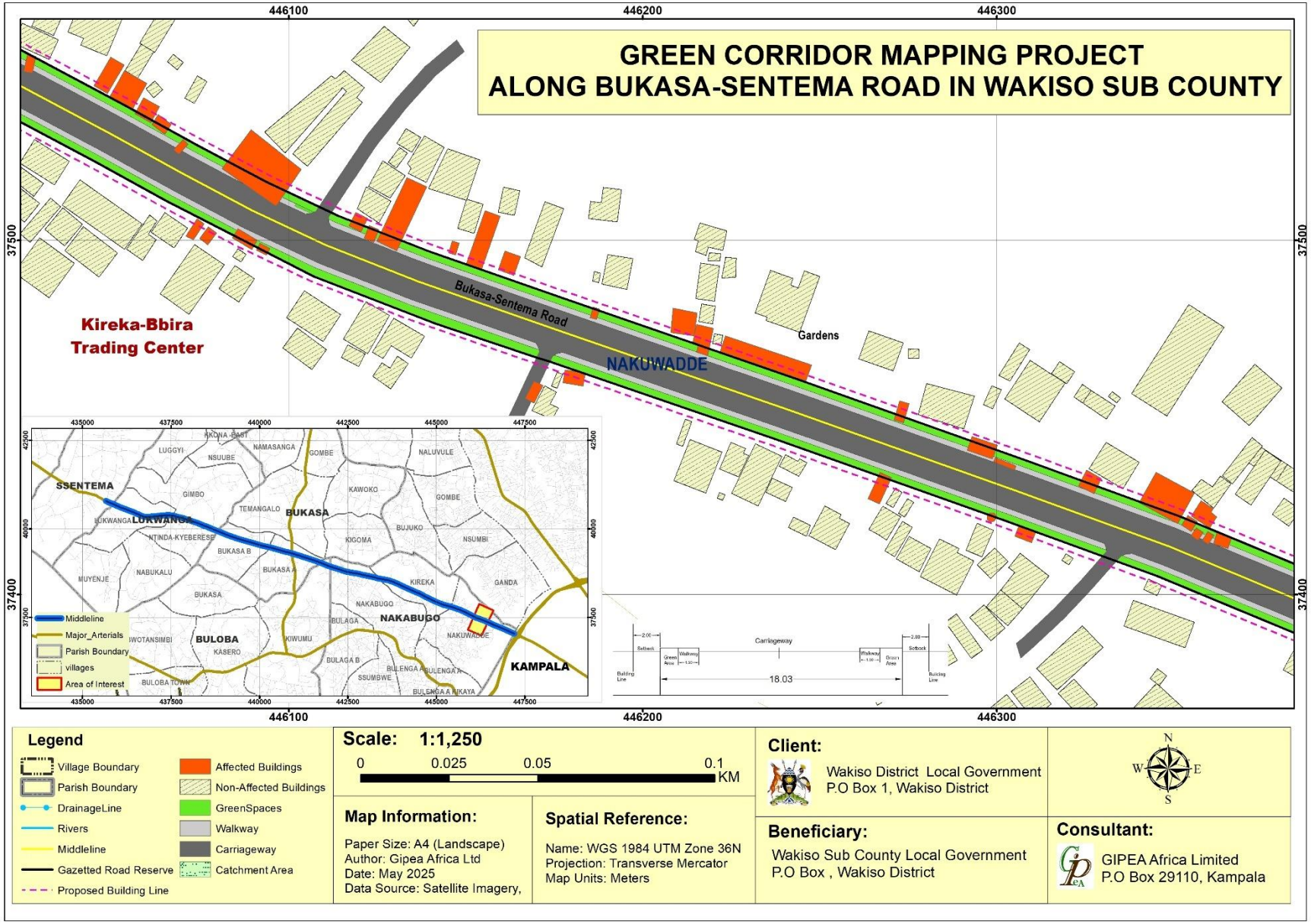

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
442900
443000
29000
28900
28800
Naggalabi Spur
BUDDO
Naggalabi Spur
Kings College
Buddo
NABBINGO
KITEMU CENTRAL
NSANGI
KIVU
BUDDO
BUDDO
KISOZI/KITEMU
KISOZI A
KISOZI B
30000
28900
28800
442000
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A32
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05 KM
Map Information:
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Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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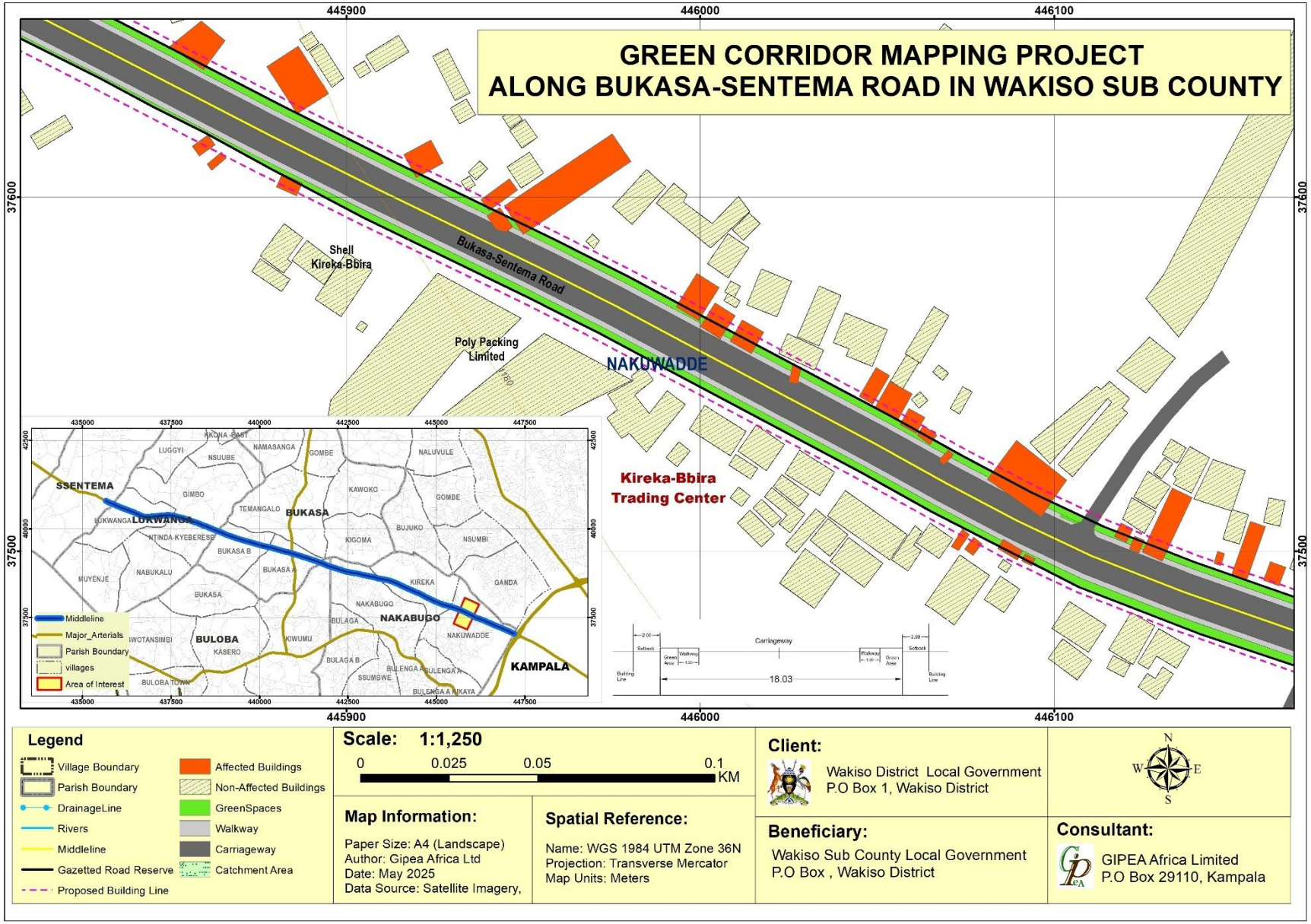

GREEN CORRIDOR MAPPING PROJECT ALONG KITEMU-KISOZI ROAD
& NAGGALABI SPUR IN KYENGERA TOWN COUNCIL
443000
443100
29000
28900
28800
Naggalabi Spur
BUDDO
12.00
Kings College
Buddo
King's College Road
442000
30000
28600
KITEMU CENTRAL
NABBINGO
NSANGI
KIVU
BUDDO
BUDDO
KISOZI/KITEMU
KISOZI A
KISOZI B
Legend
Parish Boundary
Affected Villages
Major Roads
Kitemu-Kisozi-Naggalabi Road
A33
Legend
Gazetted Road Reserve
Proposed Building Line
Carriageway
Walkways
Middleline
Drainage Line
Parish Boundary
Affected Buildings
Non Affected Buildings
GreenSpaces
Walkway
Carriageway
Scale: 1:1,000
0 0.0125 0.025 0.05
KM
Map Information:
Paper Size: A3 (Potrait)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery.
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Kyengera Town Council
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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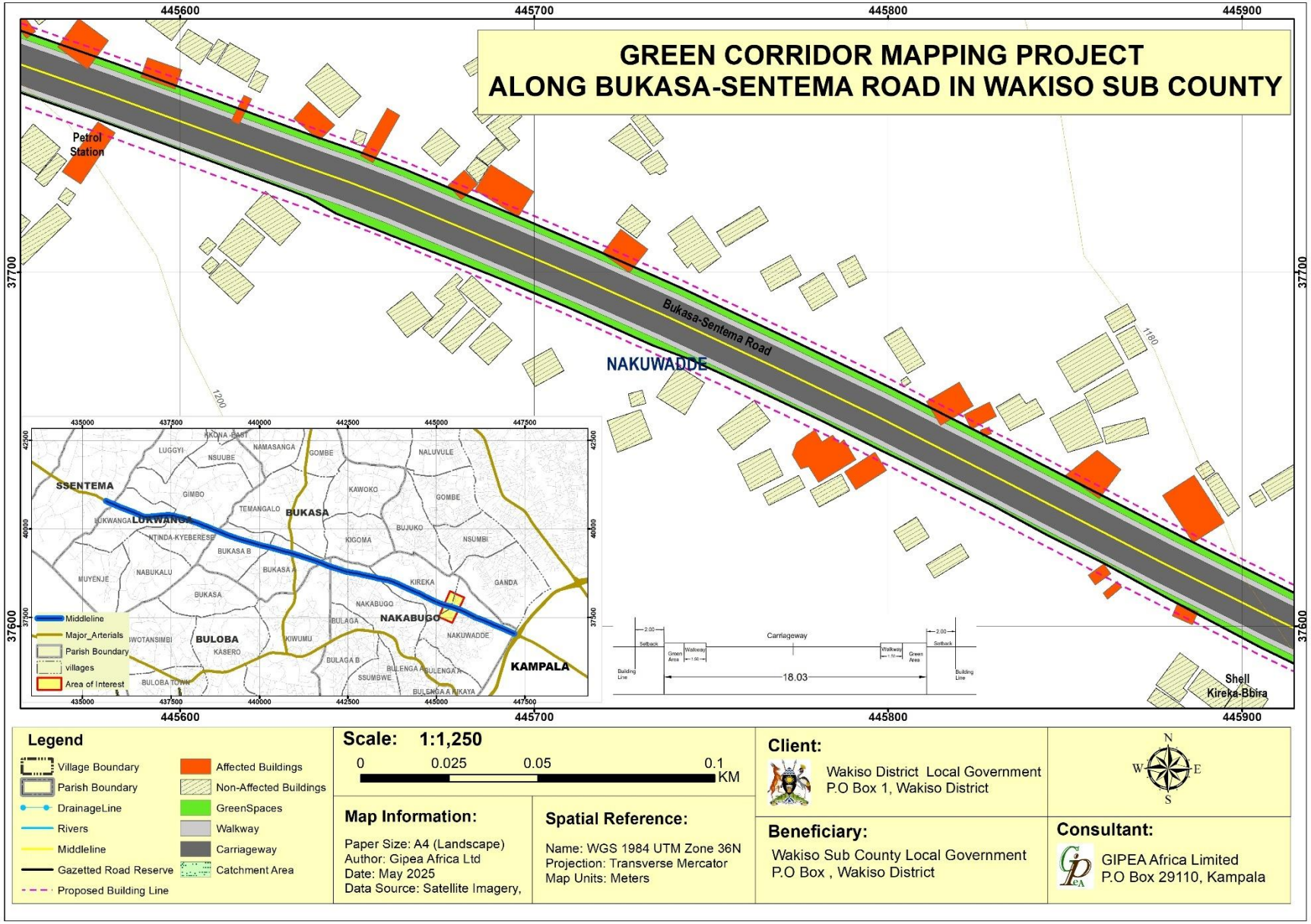
Map 3:Green Corridor Mapping along Bukasa-Sentema Road.

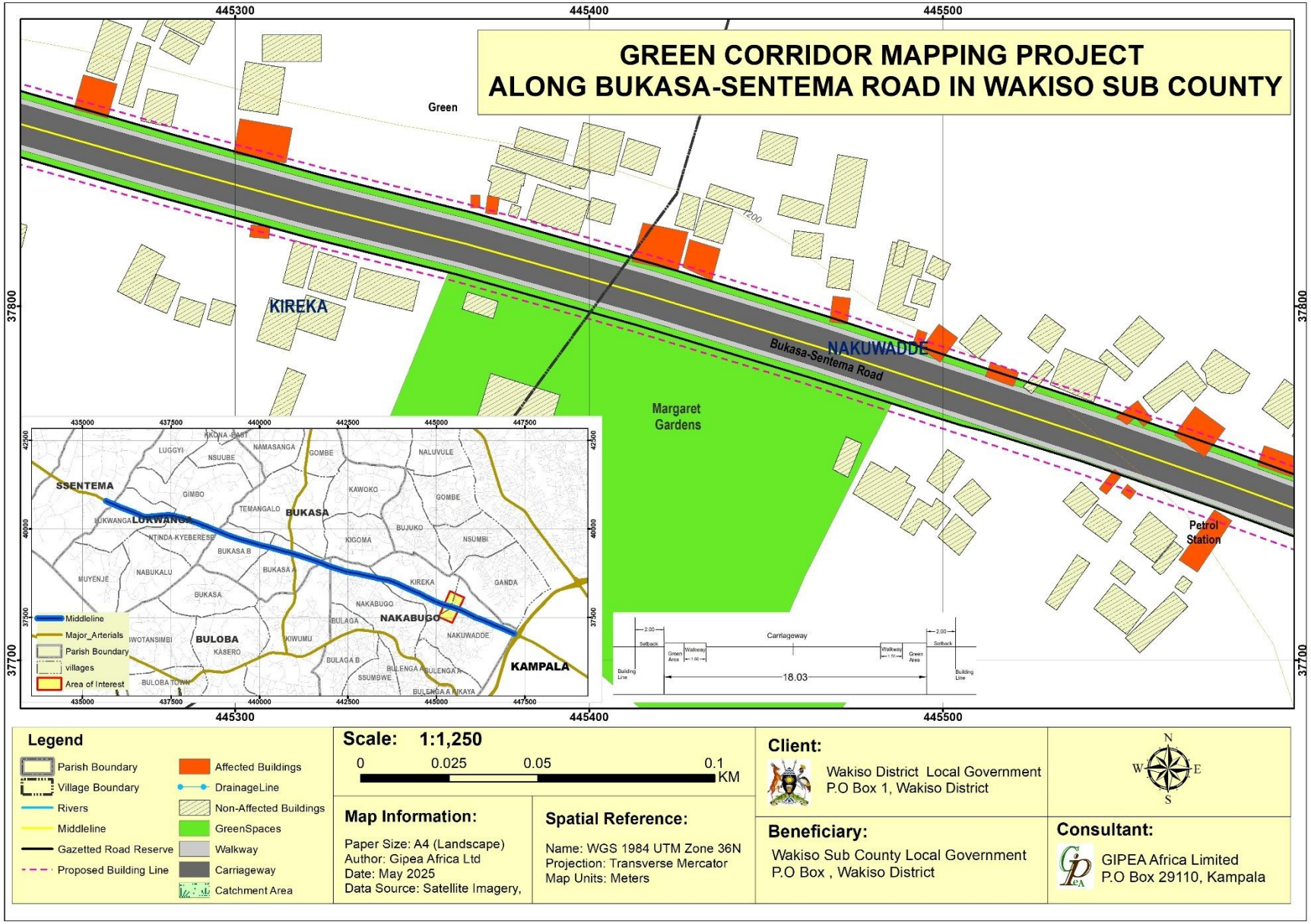


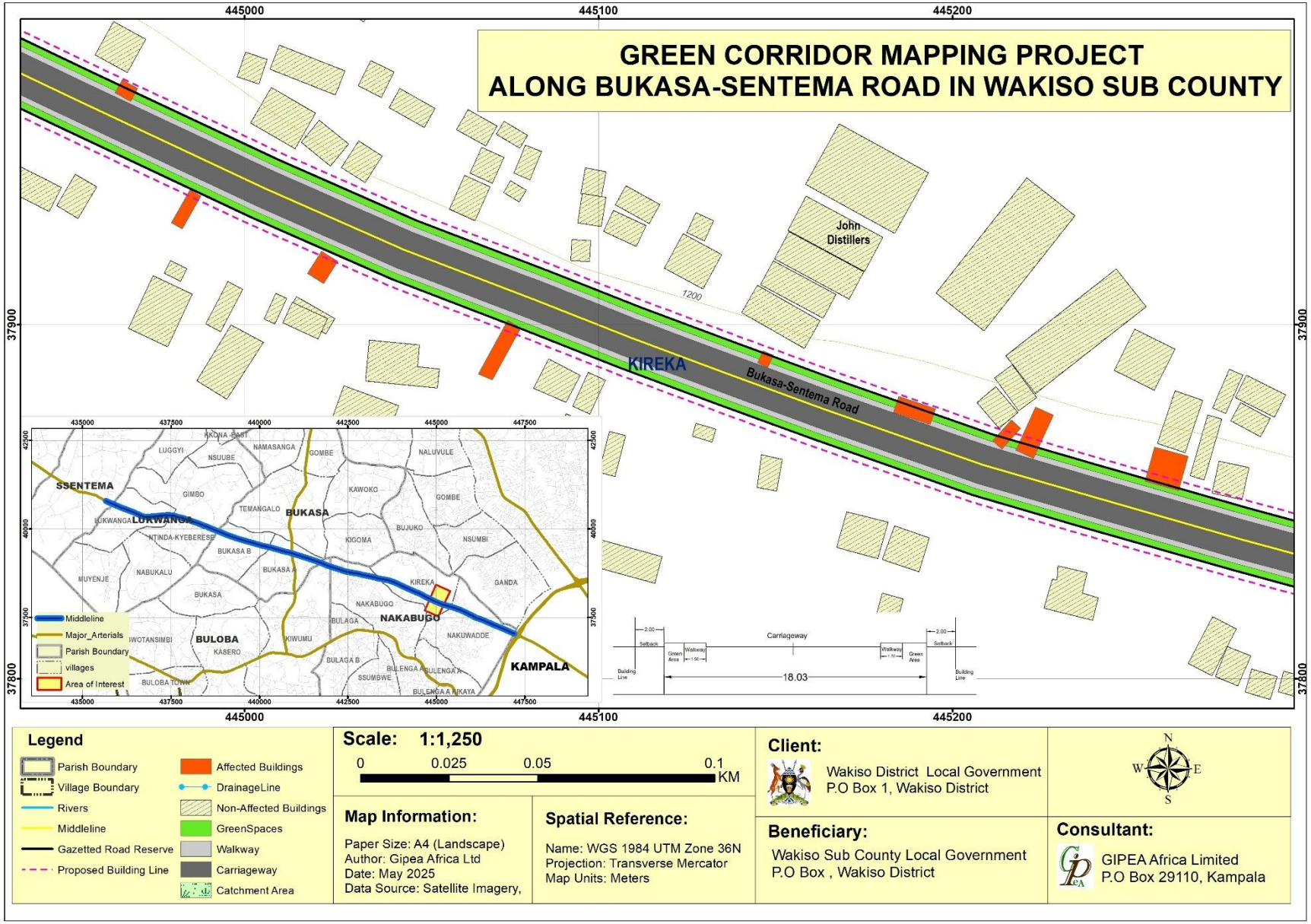

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
Kireka-Bbira
Trading Center
Gaz Kireka
Bbira
Bukasa-Sentema Road
St Johnson
Primary School
Lubanyi
NAKUWADDE
Lubiigi
Wetland
Parking Yard
Carriageway
18.03
446400
446500
446600
37400
37300
435000
437500
440000
442500
445000
447500
42500
40000
37500
SSENTEMA
LUKWANGA
BUKASA
NAKABUGO
BULOBA
KAMPALA
LUGGYI
NSUUBE
NAMASANGA
GOMBE
NALUVULE
KAWOKO
GIMBO
TEMANGALO
BUJUKO
NSUMBI
KIGOMA
KITINDA-KYEBERESE
BUKASA B
NABUKALU
MUYENJE
KIREKA
GANDA
NAKABUGO
BULAGA
KIWUMU
KASERO
NAKUWADDE
BULAGA B
SSUMBWE
BULENGA A
BULOBA TOWN
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Legend
Parish Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Village Boundary
Catchment Area
Scale: 1:1,250
0 0.025 0.05 0.1 KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

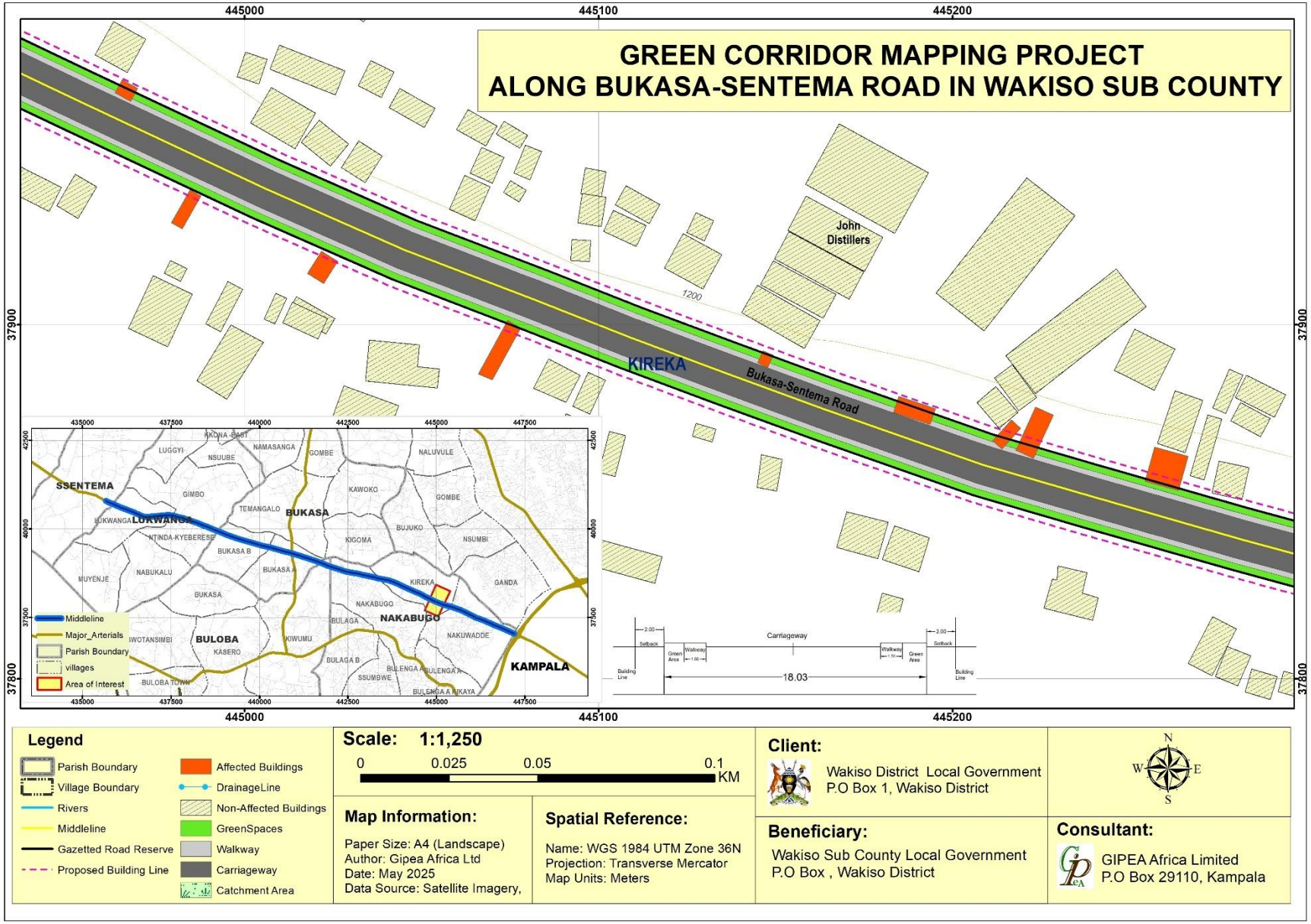

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
446100
446200
446300
37500
37400
Bukasa-Sentema Road
Kireka-Bbira
Trading Center
NAKUWADDE
Gardens
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
KIREKA
GANDA
KIGOMA
BUJUKO
NSUMBI
KAWOKO
GOMBE
NALUVULE
NAMASANGA
LUGGYI
NSUUBE
GIMBO
TEMANGALO
NTINDA-KYEBERESE
BUKASA B
BUKASA A
NABUKALU
MUYENJE
IWOTANSIMBI
KASERO
KIWUMU
BULAGA
BULAGA B
SSUMBWE
BULENGA A
BULENGA A NKAYA
BULOBA TOWN
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
18.03
Legend
Village Boundary
Parish Boundary
DrainageLine
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala


GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
445900
446000
446100
37600
37500
Shell
Kireka-Bbira
Bukasa-Sentema Road
Poly Packing
Limited
NAKUWADDE
Kireka-Bbira
Trading Center
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
KIREKA
GANDA
NAKUWADDE
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
18.03
Legend
Village Boundary
Parish Boundary
DrainageLine
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala


GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
445600
445700
445800
445900
37700
37600
Petrol Station
Bukasa-Sentema Road
NAKUWADDE
1200
1180
Shell Kireka-Bbira
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
KIREKA
GANDA
KIWUMU
KASERO
BULAGA
BULAGA B
BULENGA A
BULENGA A NKAYA
SSUMBWE
BULOBA TOWN
NTINDA-KYEBERESE
BUKASA B
BUKASA A
NABUKALU
MUYENJE
IWOTANSIMBI
GIMBO
TEMANGALO
KAWOKO
BUJUKO
KIGOMA
NSUMBI
GOMBE
NALUVULE
NAMASANGA
NSUUBE
LUGGYI
AKONA EAST
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Walkway
Green Area
Building Line
18.03
Legend
Village Boundary
Parish Boundary
DrainageLine
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala


GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
445300
445400
445500
37800
37700
KIREKA
NAKUWADDE
Bukasa-Sentema Road
Margaret Gardens
Petrol Station
Green
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Walkway
Green Area
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala


GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
445000
445100
445200
37900
37800
John Distillers
1200
KIREKA
Bukasa-Sentema Road
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Walkway
Green Area
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala



Legend

- Parish Boundary
- Village Boundary
- Rivers
- Middleline
- Gazetted Road Reserve
- Proposed Building Line
- Affected Buildings
- DrainageLine
- Non-Affected Buildings
- GreenSpaces
- Walkway
- Carriageway
- Catchment Area

Scale: 1:1,250

0 0.025 0.05 0.1 KM

Map Information:

Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,

Spatial Reference:

Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters

Client:

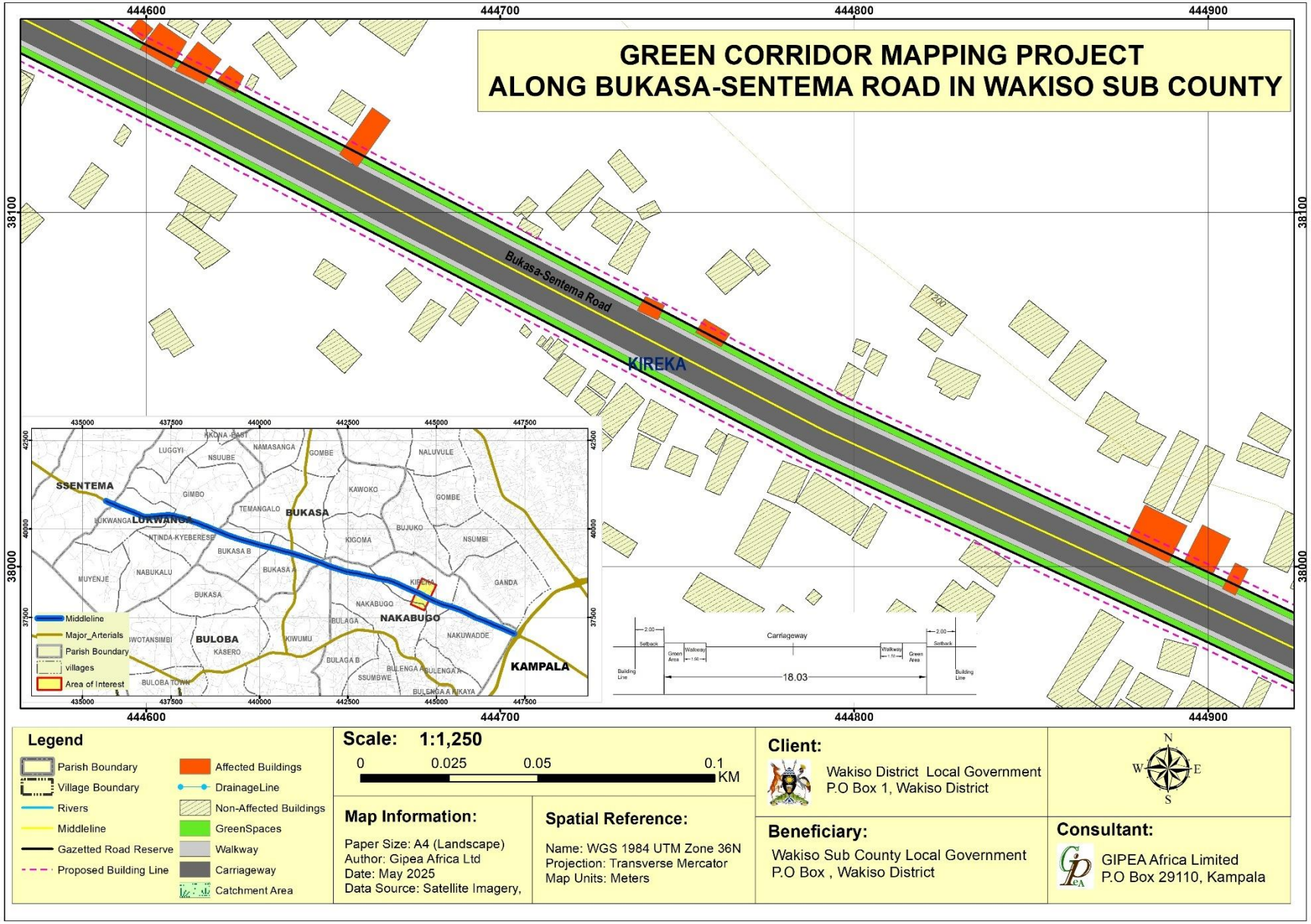
Wakiso District Local Government
P.O Box 1, Wakiso District

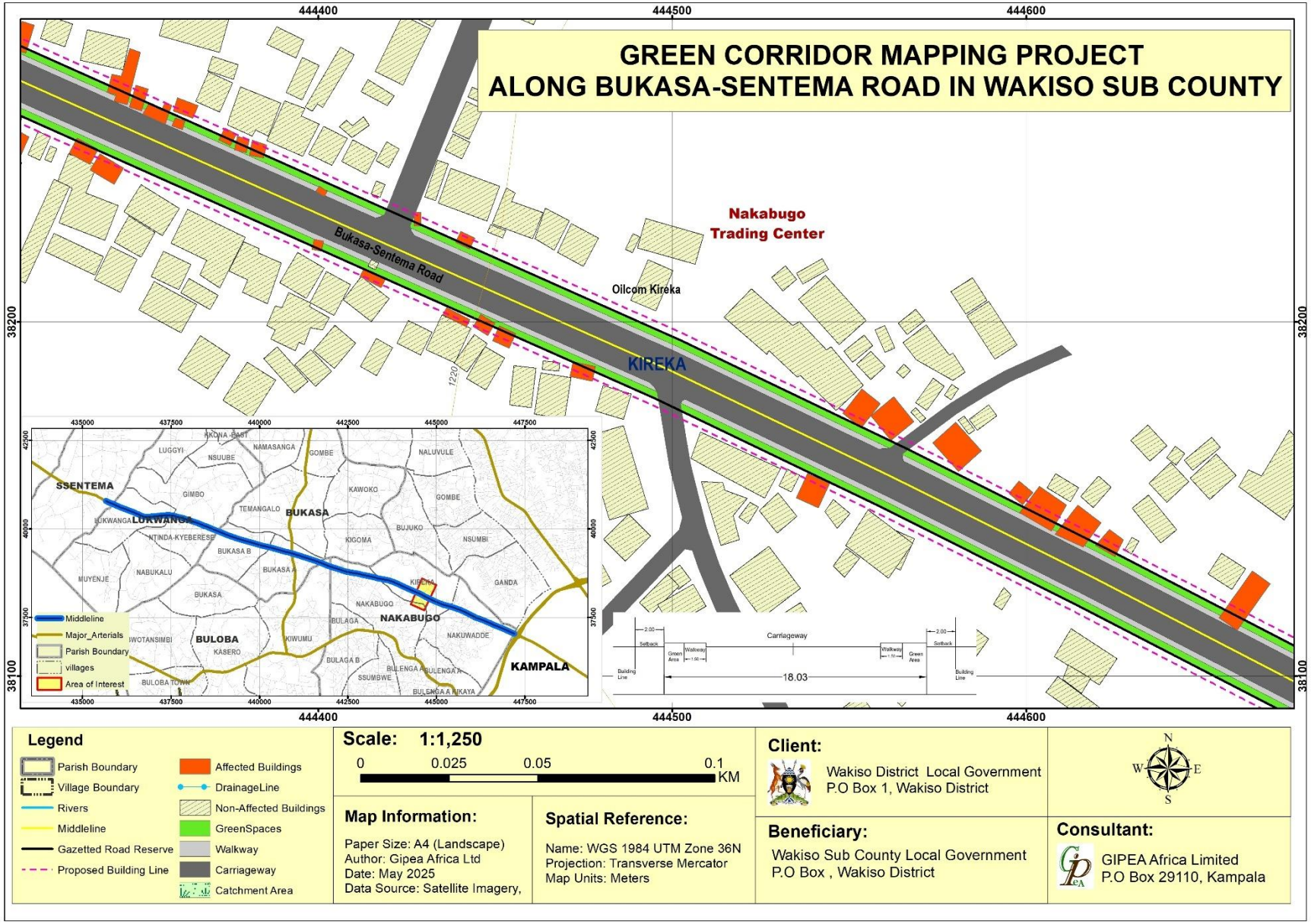
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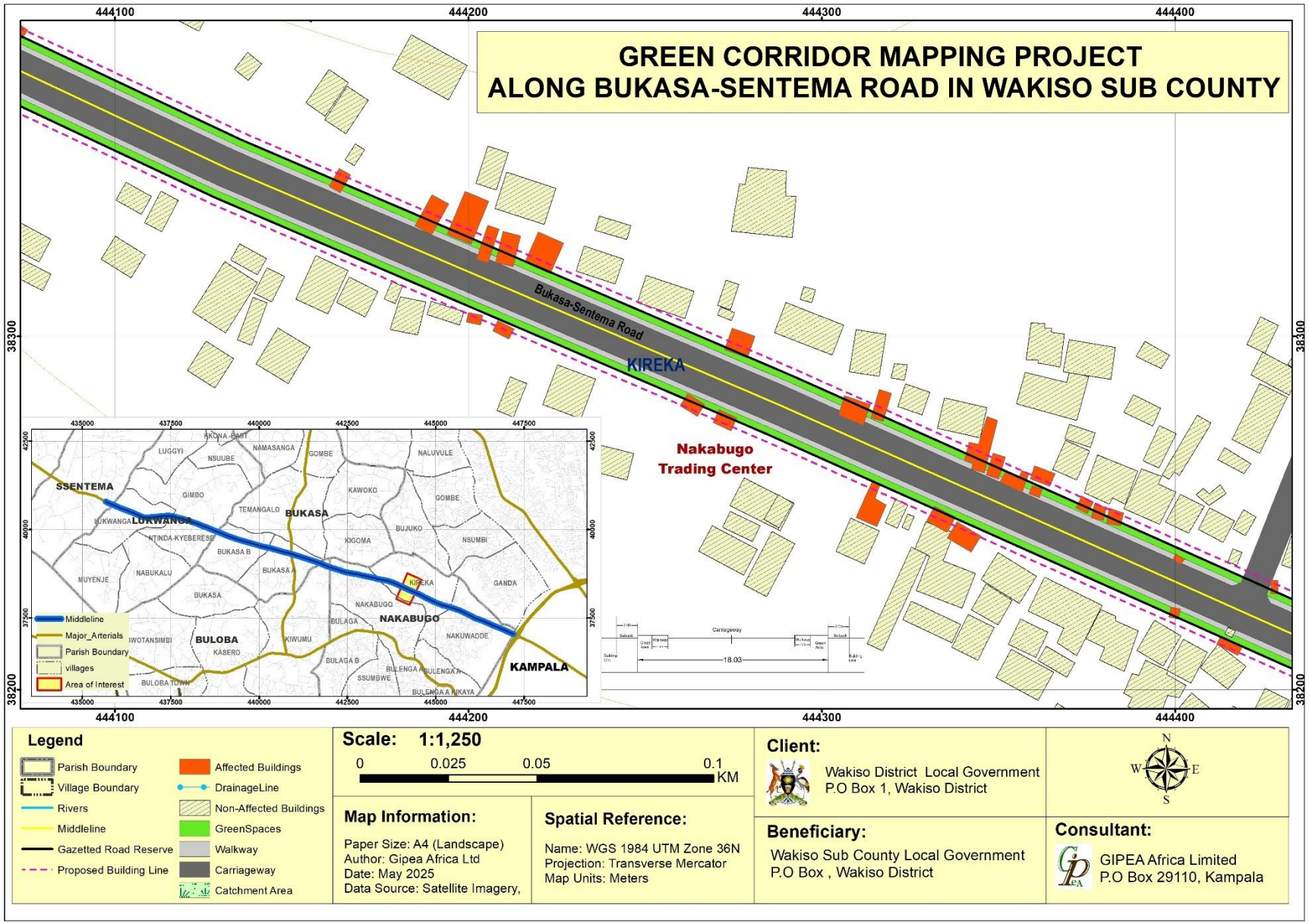
Wakiso Sub County Local Government
P.O Box , Wakiso District

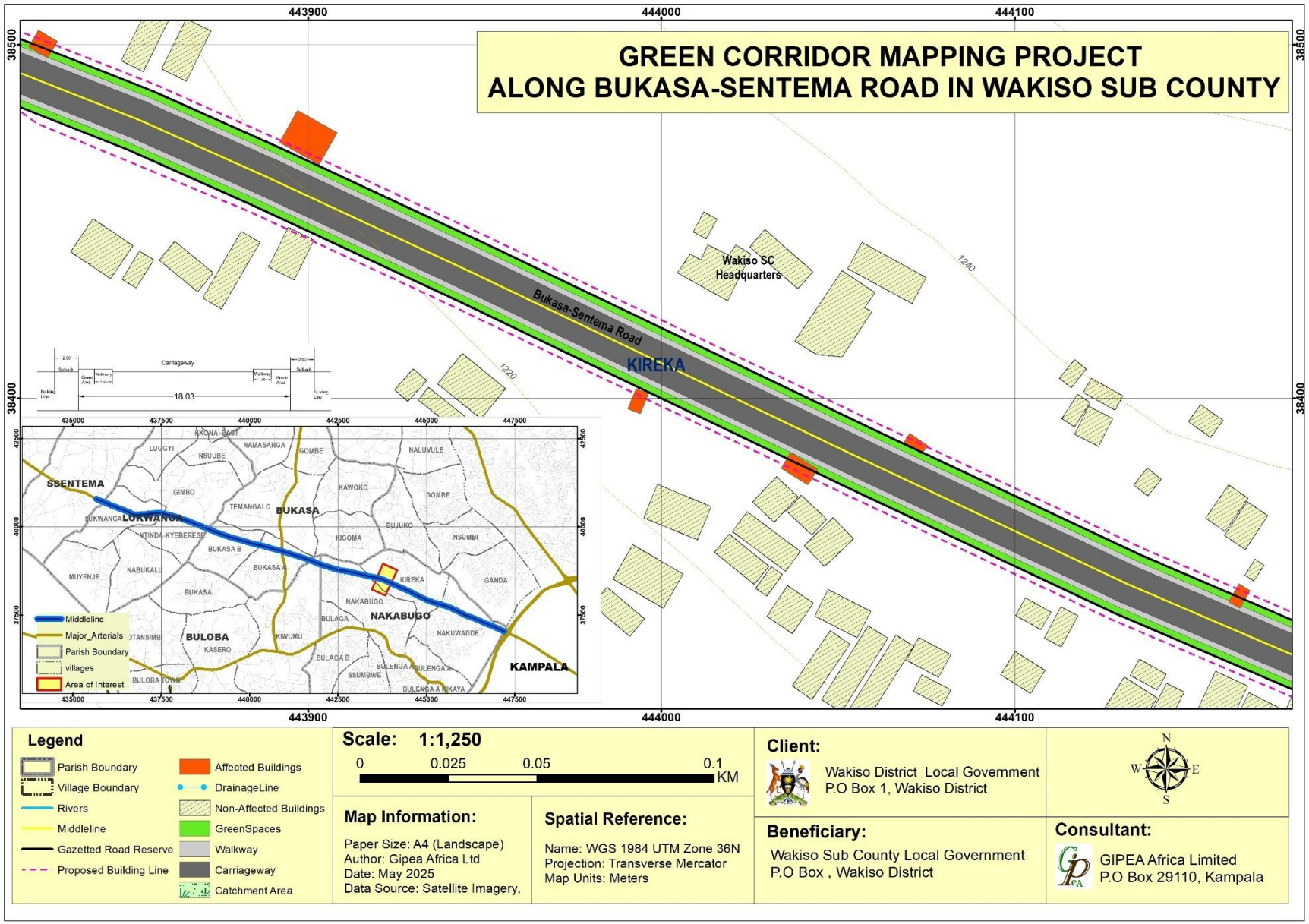
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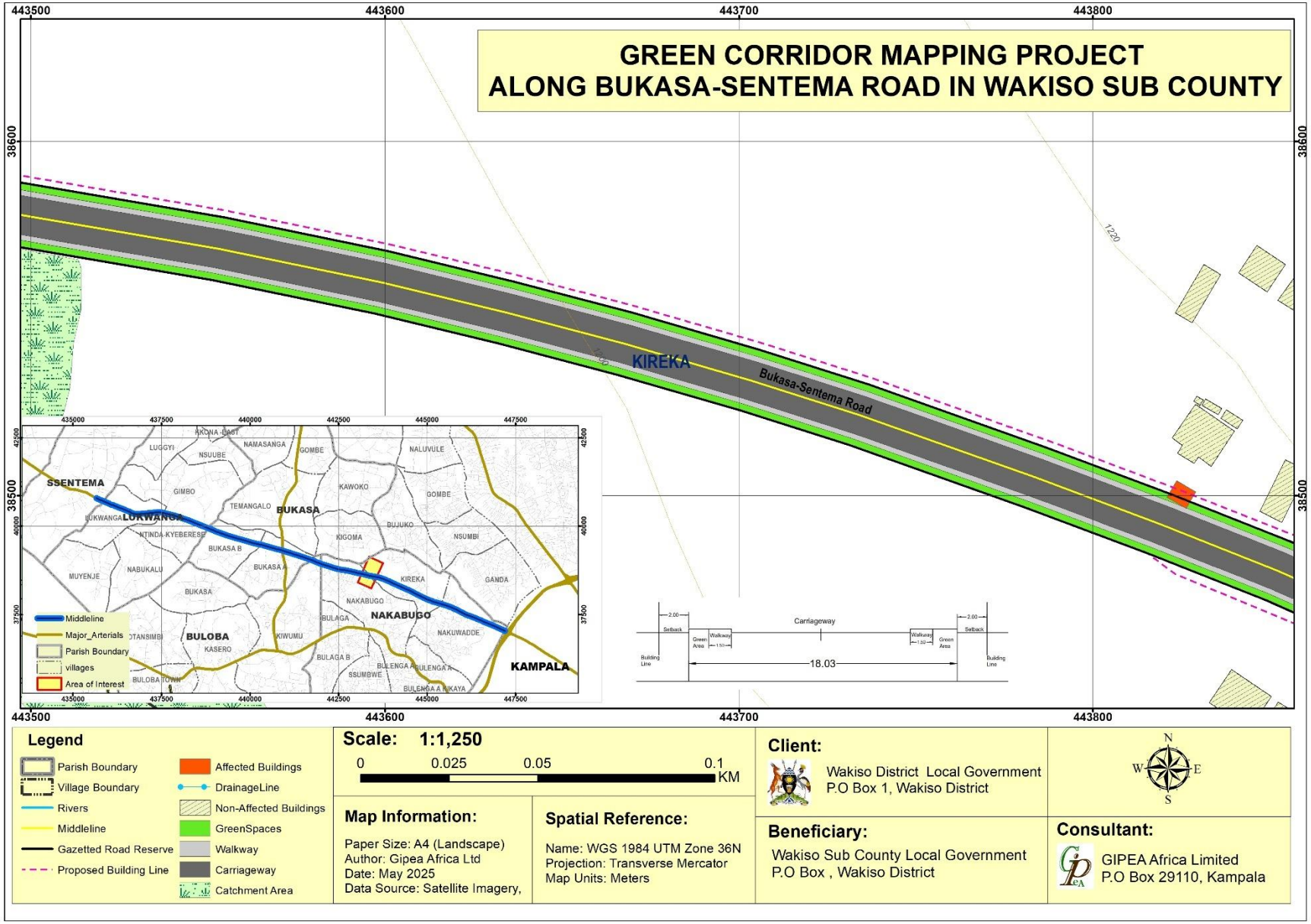
GIPEA Africa Limited
P.O Box 29110, Kampala

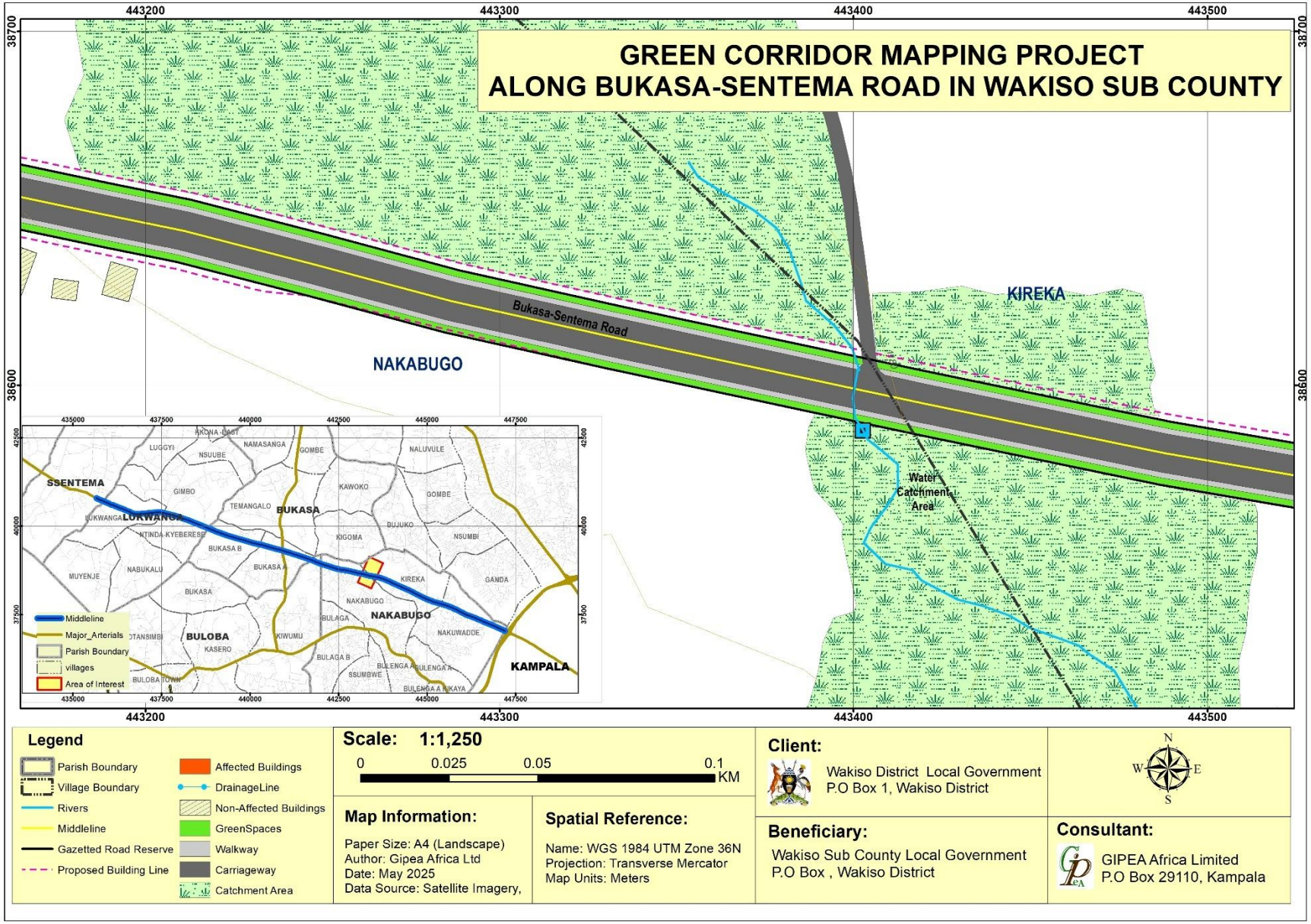

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
Bukasa-Sentema Road
KIREKA
444600
444700
444800
444900
38100
38000
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

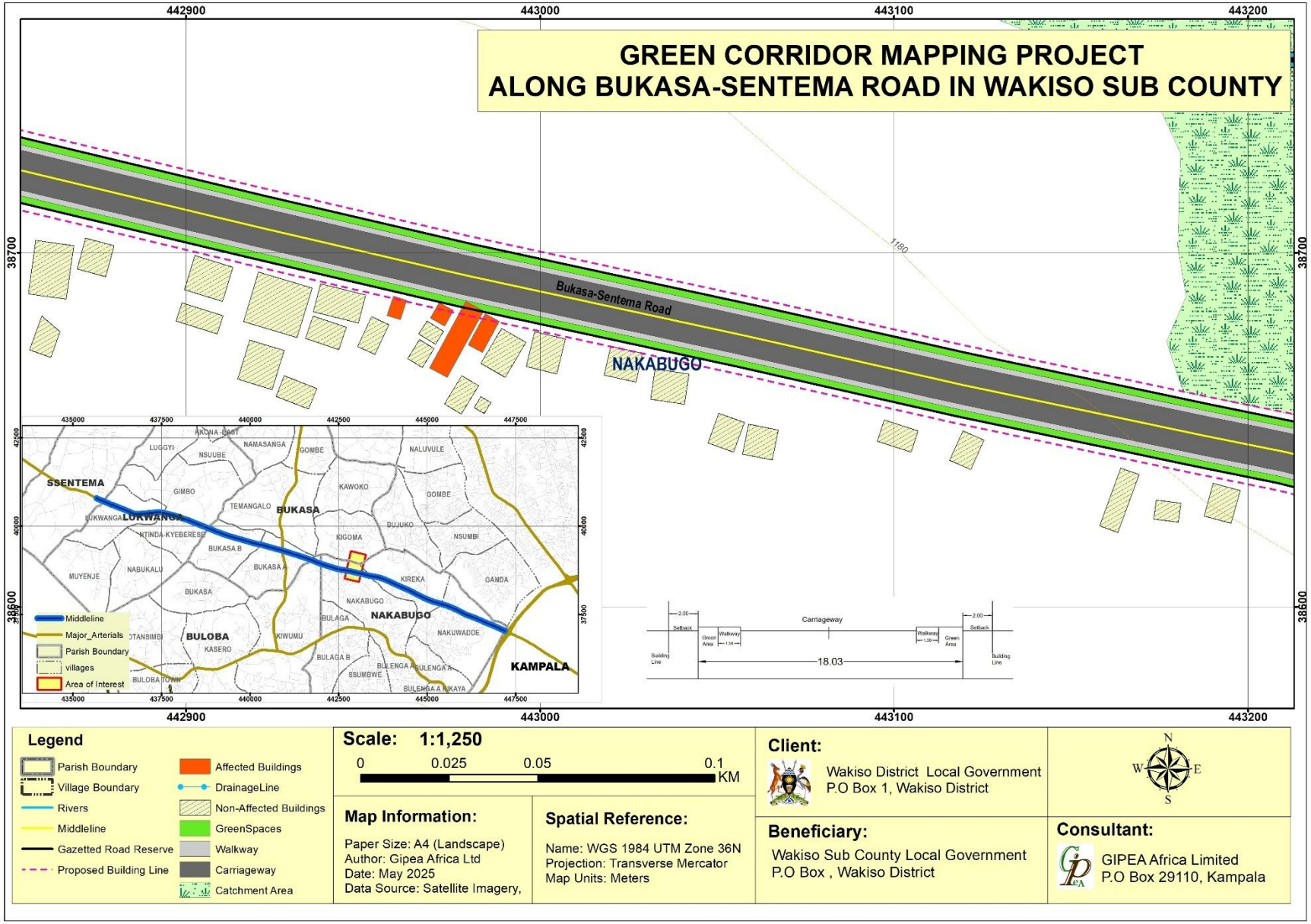

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
444400
444500
444600
38200
38100
Nakabugo
Trading Center
Bukasa-Sentema Road
Oilcom Kireka
KIREKA
1220
435000
437500
440000
442500
445000
447500
42500
40000
37500
LUGGYI
NSUUBE
NAMASANGA
GOMBE
NALUVULE
SSENTEMA
GIMBO
KAWOKO
GOMBE
LUKWANGA
LUKWANGA
TEMANGALO
BUKASA
BUJUKO
NTINDA-KYEBERESE
KIGOMA
NSUMBI
BUKASA B
BUKASA A
MUYENJE
NABUKALU
KIREKA
GANDA
BUKASA
NAKABUGO
BULAGA
NAKABUGO
IWOTANSIMBI
BULOBA
KIWUMU
NAKUWADDE
KASERO
BULAGA B
BULENGA A
BULENGA B
KAMPALA
SSUMBWE
BULOBA TOWN
BULENGA A NKAYA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
2.00
Setback
Green Area
Walkway
1.50
Carriageway
1.50
Walkway
Green Area
2.00
Setback
Building Line
18.03
Building Line
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
N
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Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

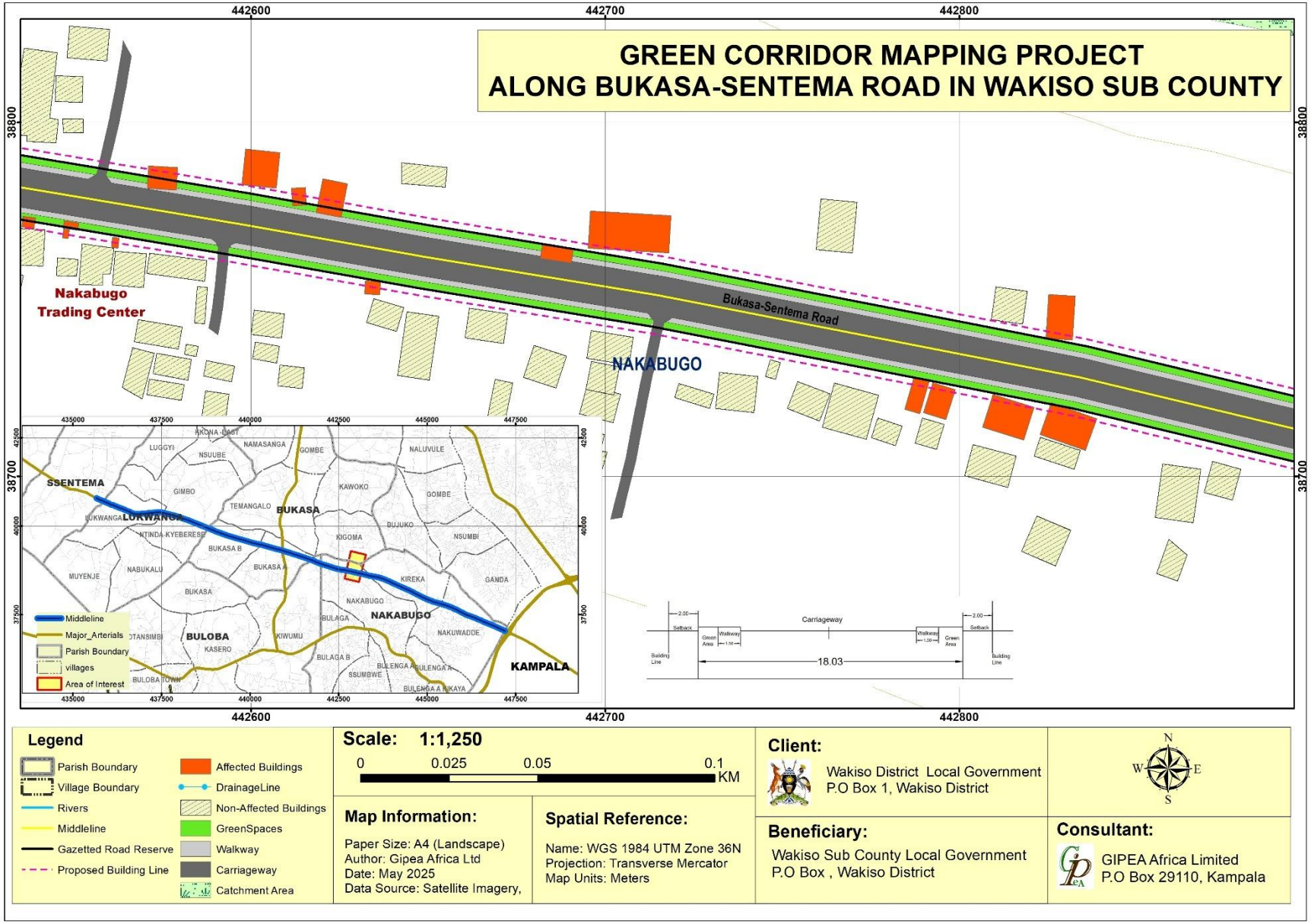

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
444100
444200
444300
444400
38300
38200
Bukasa-Sentema Road
KIREKA
Nakabugo
Trading Center
SSENTEMA
LUKWANGA
BUKASA
NAKABUGO
BULOBA
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

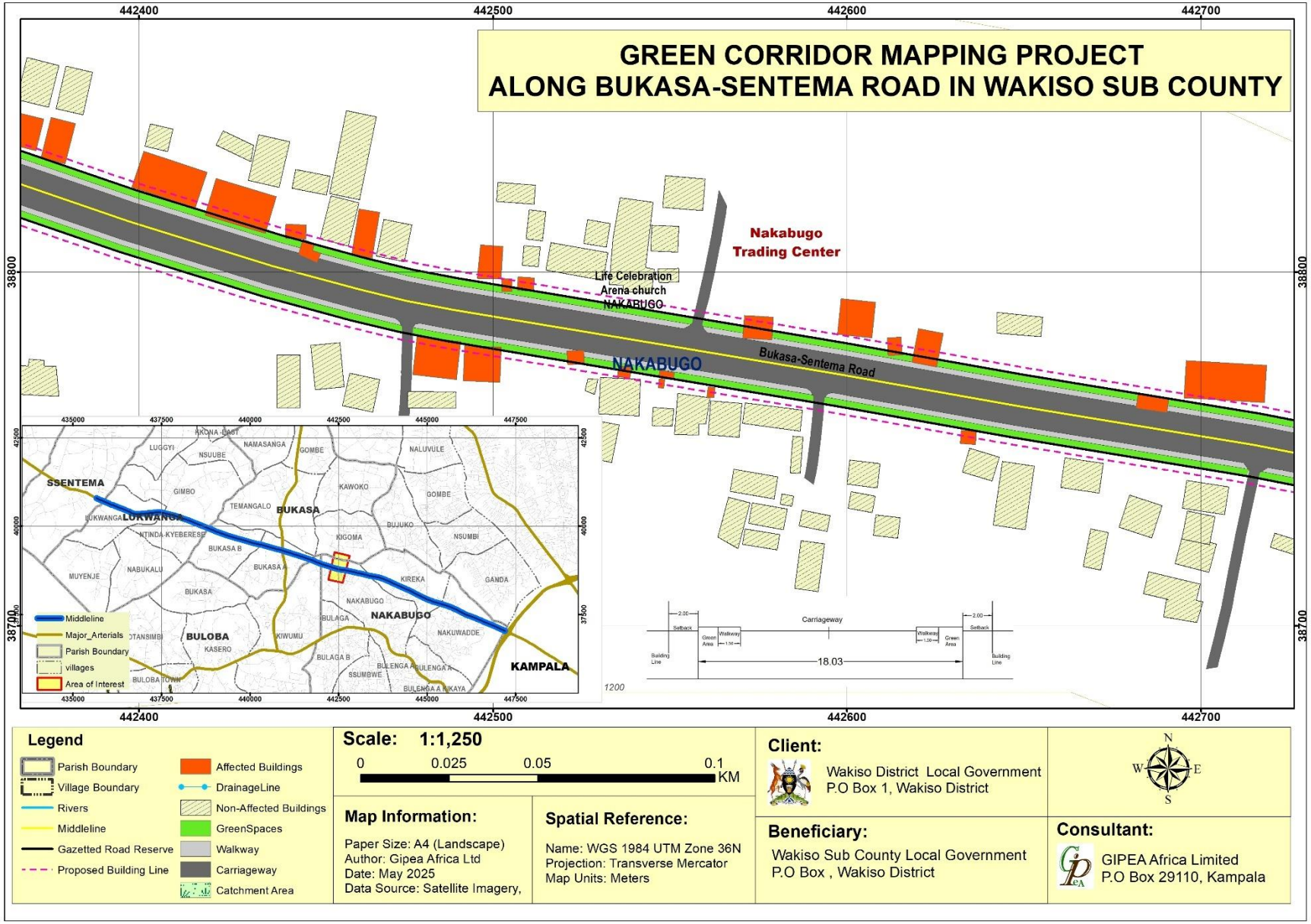

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
443900
444000
444100
38500
38400
Wakiso SC Headquarters
Bukasa-Sentema Road
KIREKA
1220
1240
Carriageway
18.03
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
KIREKA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

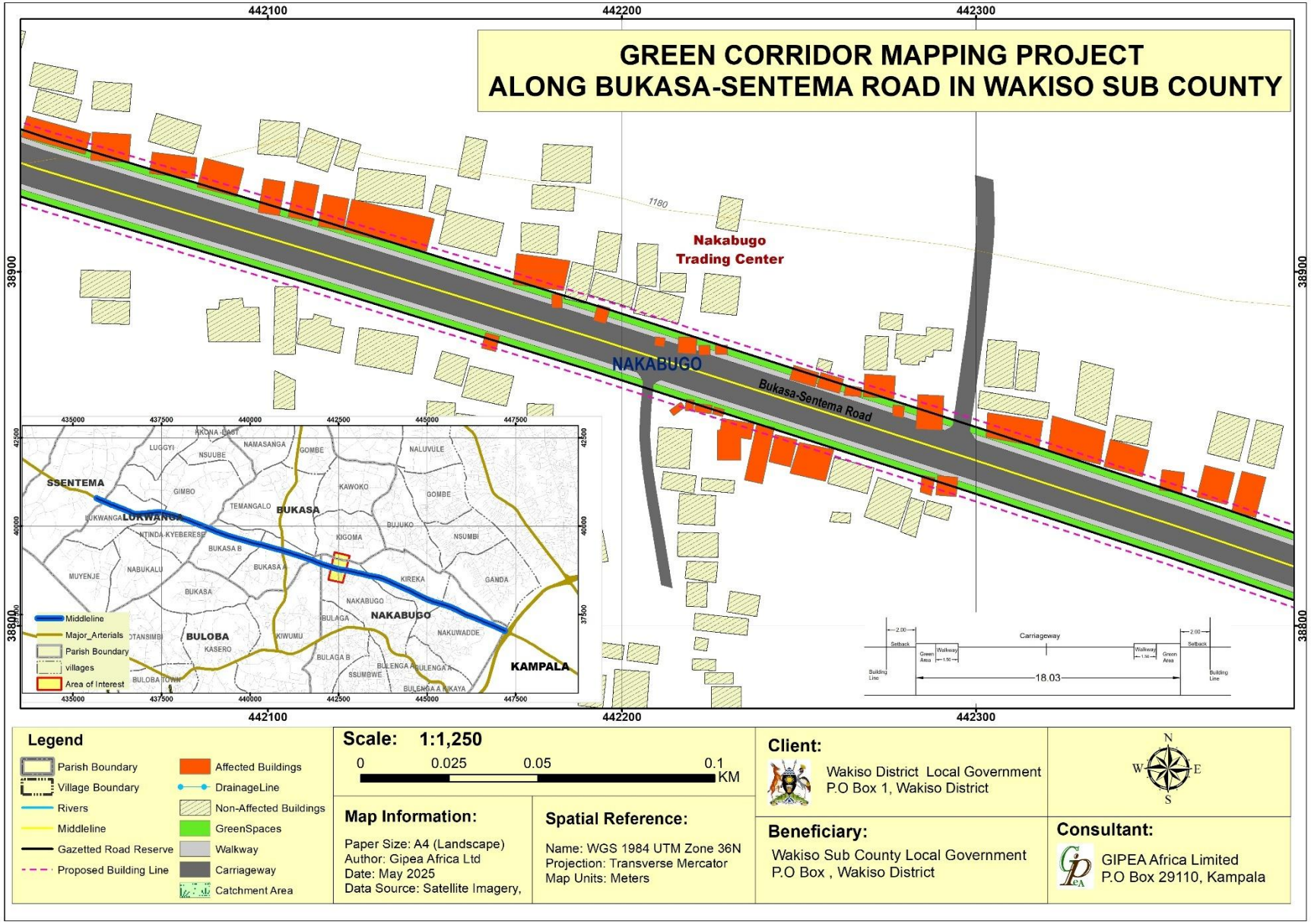

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
443500
443600
443700
443800
38600
38500
KIREKA
Bukasa-Sentema Road
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
KIREKA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Green Area
Walkway
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
W
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S
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

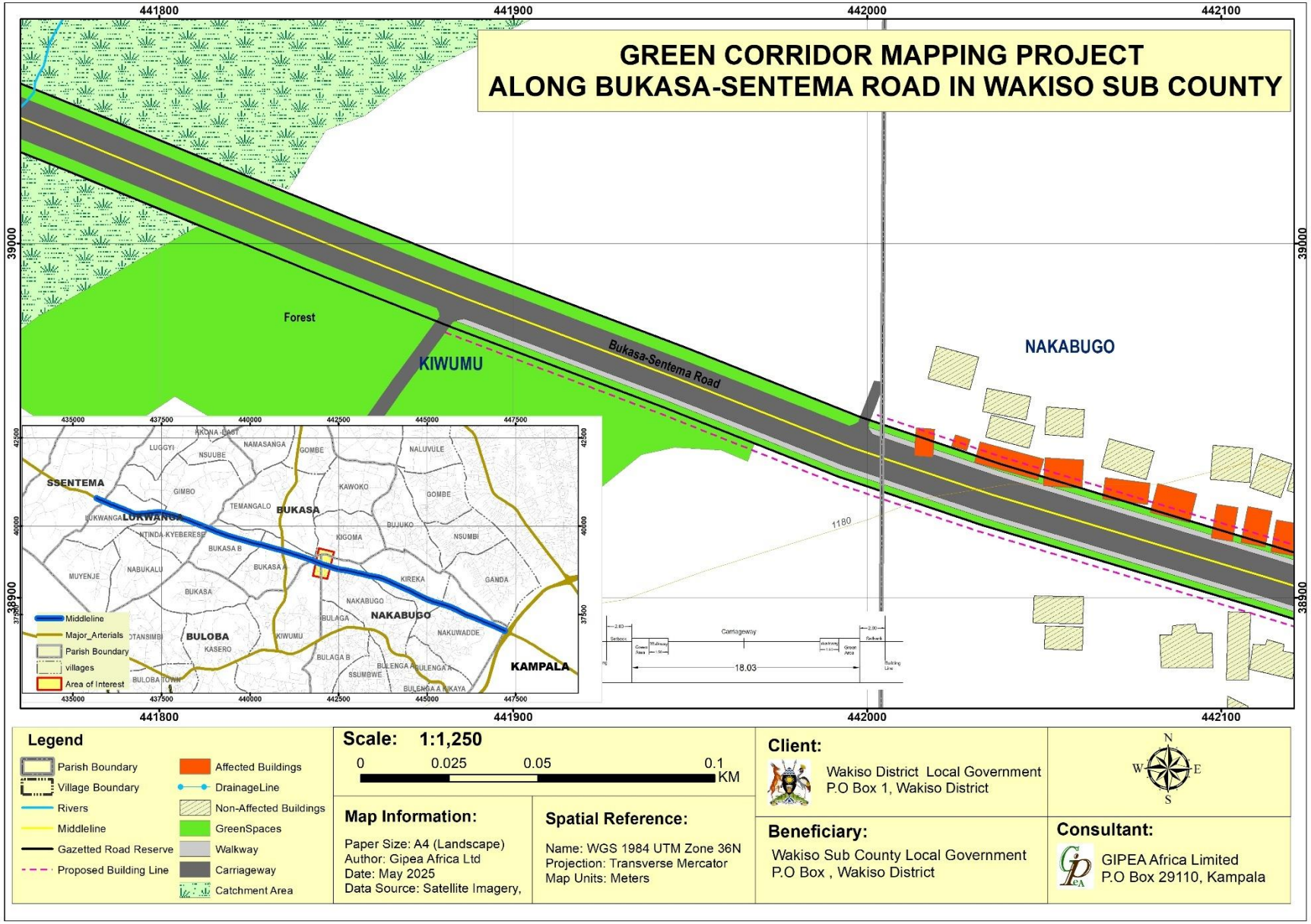

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
443200
443300
443400
443500
38700
38600
Bukasa-Sentema Road
NAKABUGO
KIREKA
Water Catchment Area
SSENTEMA
LUKWANGA
BUKASA
BULOBA
KAMPAKA
KAMPALA
GANDA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
W
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S
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

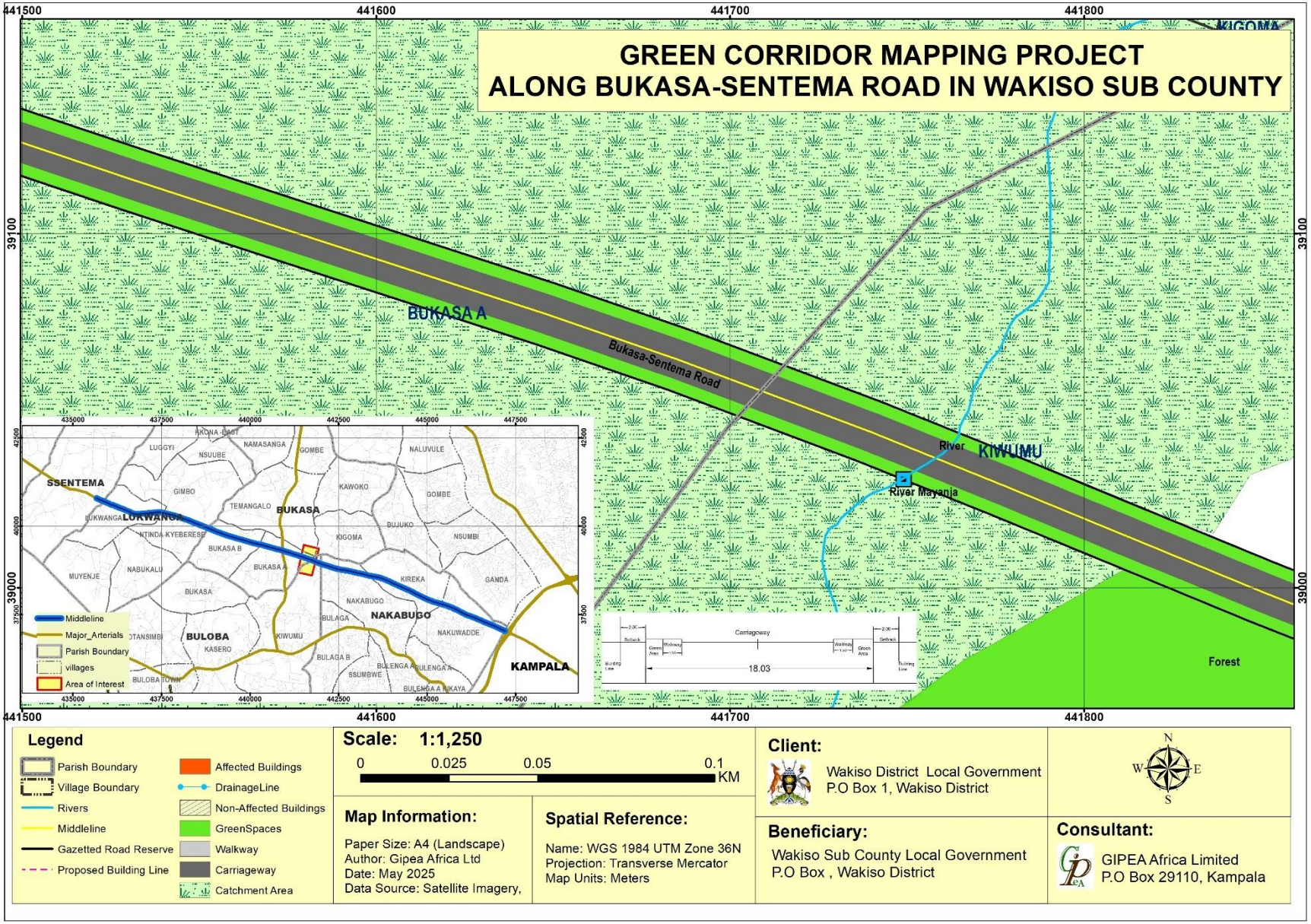

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
Bukasa-Sentema Road
NAKABUGO
442900
443000
443100
443200
38700
38600
SSENTEMA
LUKWANGA
BUKASA
BUBAJO
KIREKA
GANDA
NAKABUGO
BULOBA
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Green Area
Walkway
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
W
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

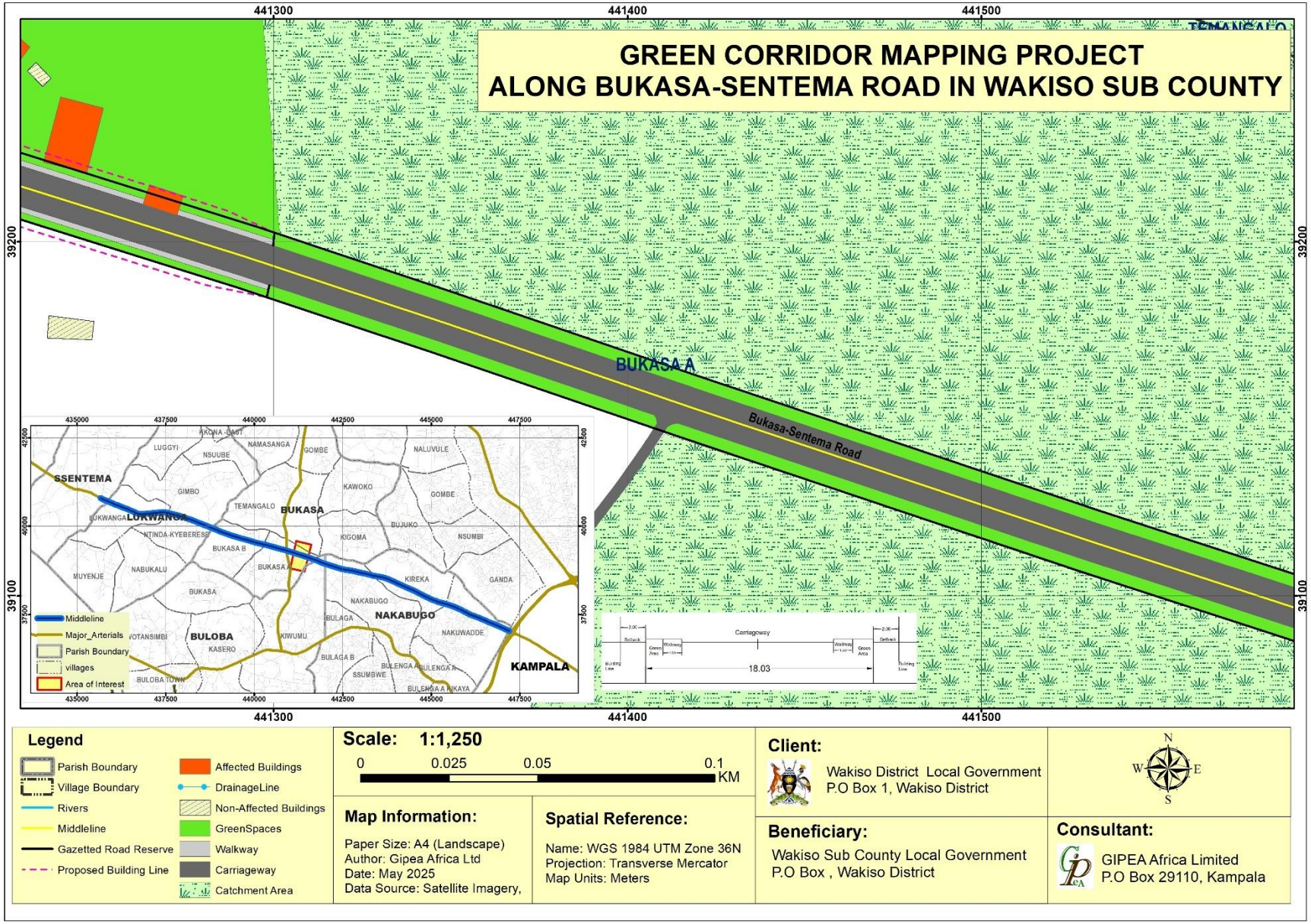

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
442600
442700
442800
38800
38700
Nakabugo
Trading Center
Bukasa-Sentema Road
NAKABUGO
SSENTEMA
LUKWANGA
BUKASA
BULOBA
KAMPALA
KIREKA
GANDA
KIGOMA
BUJUKO
NSUMBI
KAWOKO
GOMBE
NALUVULE
NAMASANGA
LUGGYI
NSUUBE
GIMBO
TEMANGALO
NTINDA-KYEBERESE
BUKASA B
BUKASA A
NABUKALU
MUYENJE
KIWUMU
KASERO
BULAGA
BULAGA B
NAKUWADDE
SSUMBWE
BULENGA A
BULENGA A KIKAYA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Walkway
Green Area
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

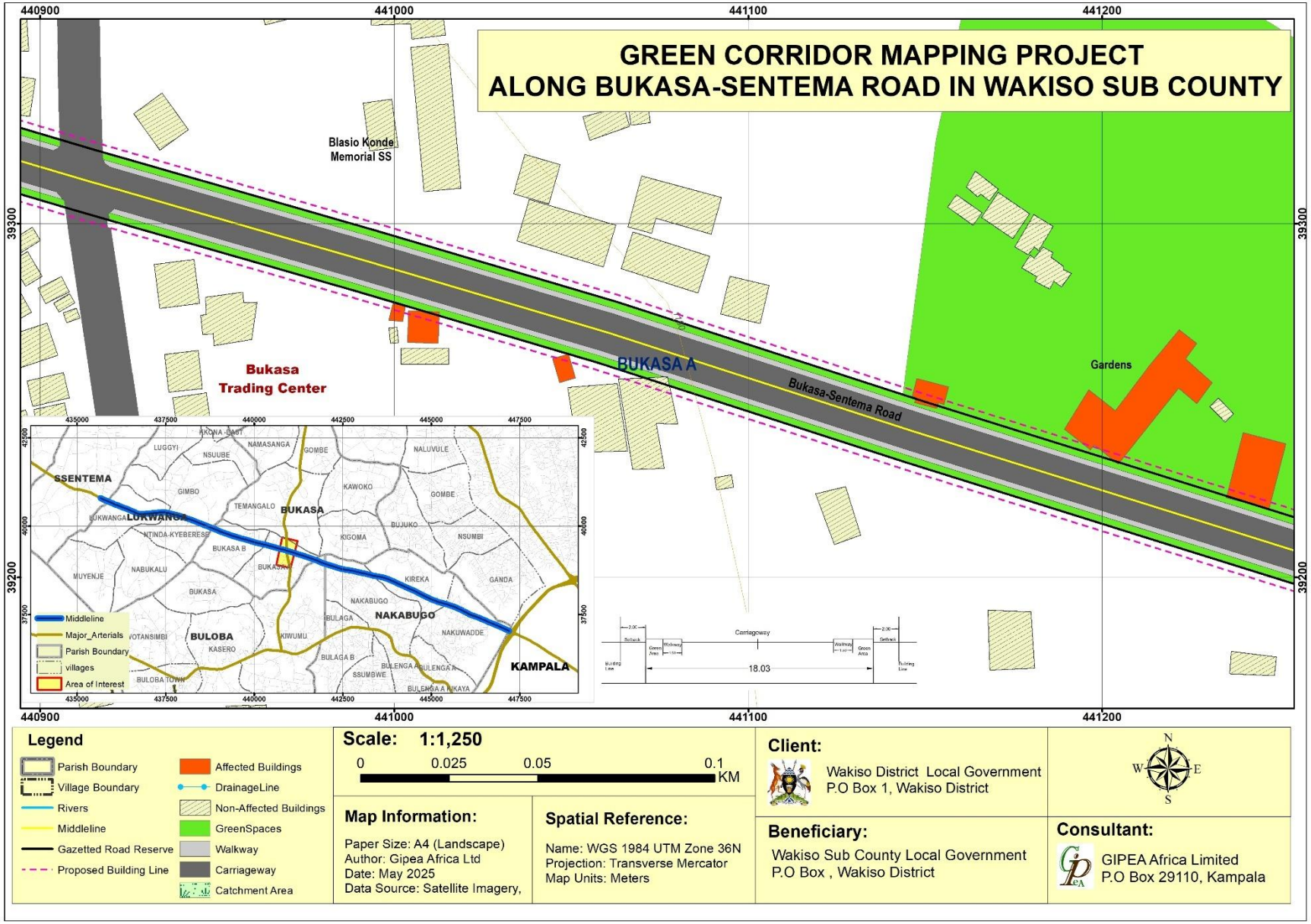

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
442400
442500
442600
442700
38800
38700
Nakabugo
Trading Center
Life Celebration
Areria church
NAKABUGO
NAKABUGO
Bukasa-Sentema Road
SSENTEMA
LUKWANGA
BUKASA
BULOBA
KAMPALA
NAKABUGO
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Walkway
Green Area
Building Line
18.03
1200
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
W
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

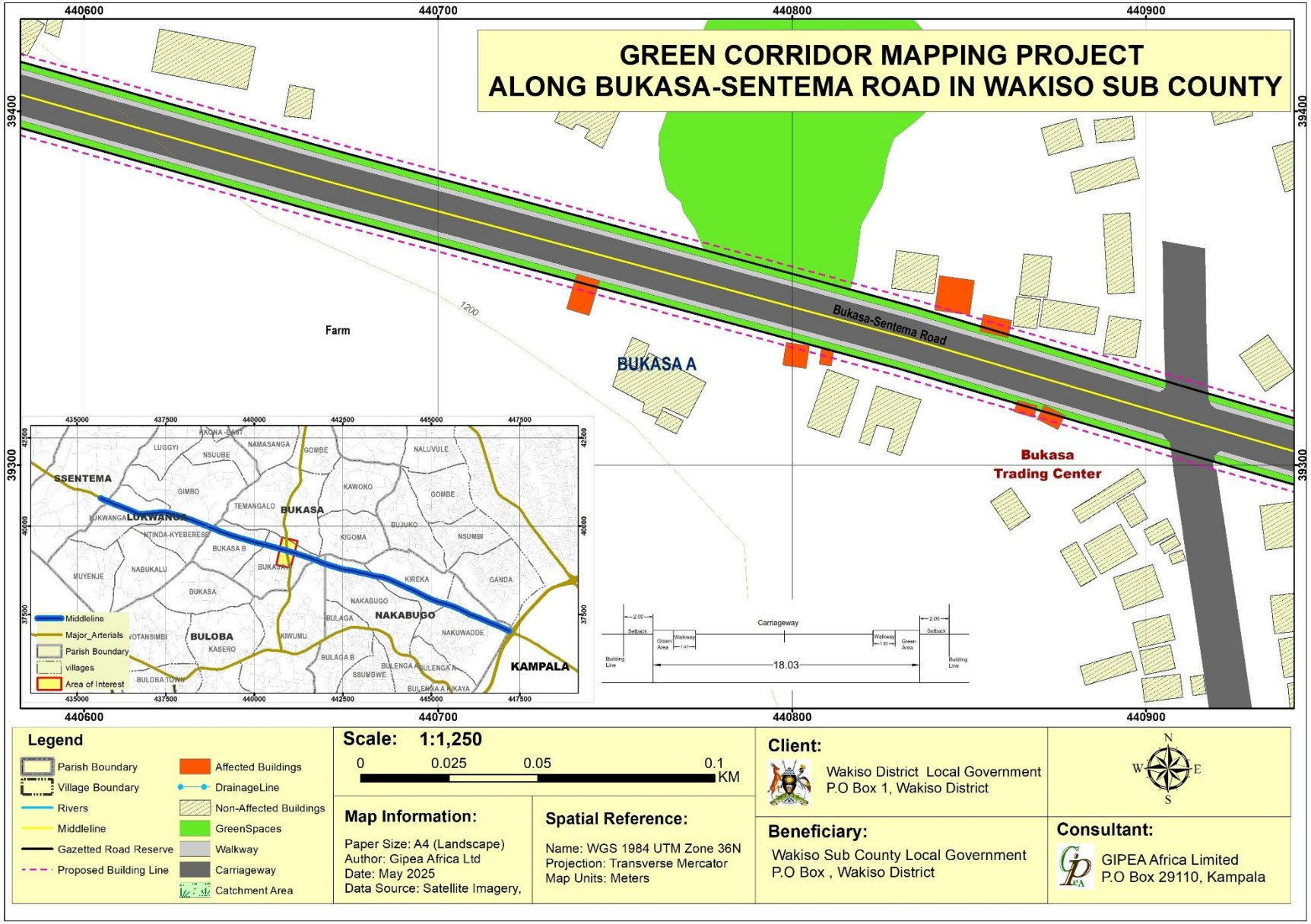

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
442100
442200
442300
38900
38800
Nakabugo
Trading Center
NAKABUGO
Bukasa-Sentema Road
1180
SSENTEMA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

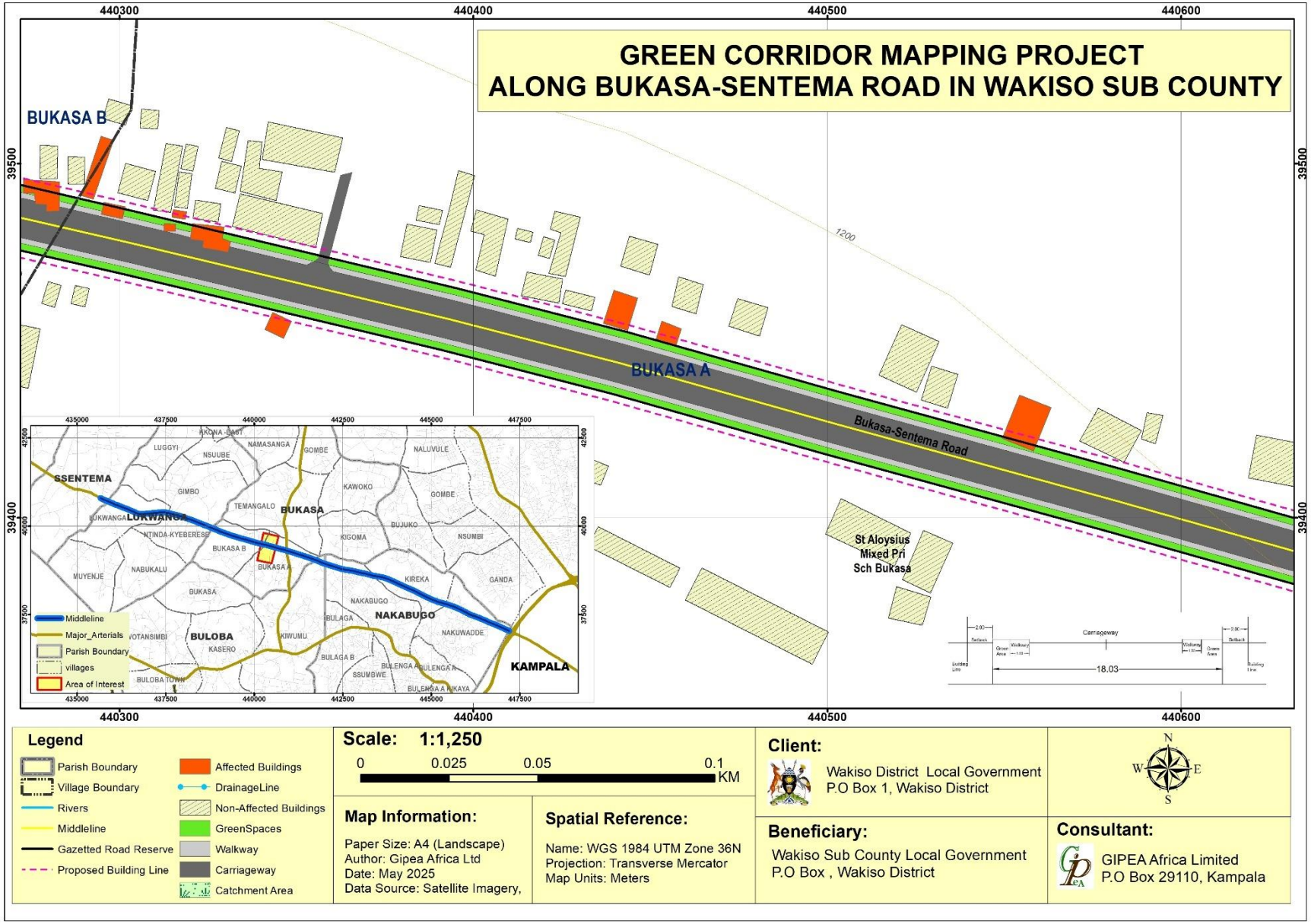

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
441800
441900
442000
442100
39000
38900
Forest
KIWUMU
Bukasa-Sentema Road
NAKABUGO
1180
Carriageway
18.03
SSENTEMA
LUKWANGA
BUKASA
BULOBA
KIWUMU
NAKABUGO
KAMPALA
KIREKA
GANDA
NAKUWADDE
BULAGA
BULAGA B
BULENGA A
BULENGA A KIKAYA
SSUMBWE
BUKASA A
BUKASA B
KIGOMA
BUJUKO
NSUMBI
KAWOKO
GOMBE
NALUVULE
NAMASANGA
GOMBE
LUGGYI
NSUUBE
GIMBO
TEMANGALO
NTINDA-KYEBERESE
NABUKALU
MUYENJE
OTANSIMBI
KASERO
BULOBA TOWN
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

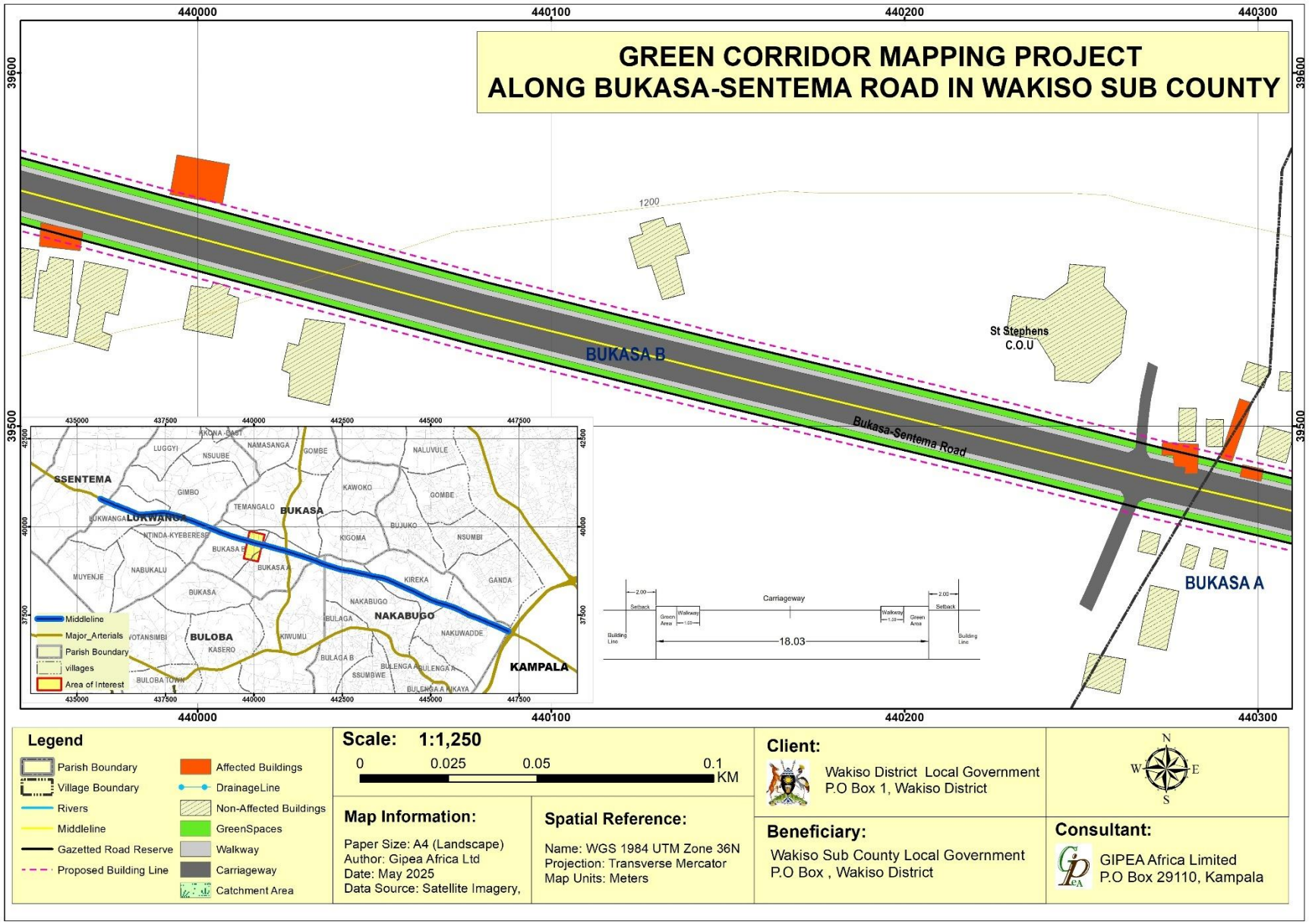

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
441500
441600
441700
441800
39100
39000
BUKASA A
Bukasa-Sentema Road
River
KIWUMU
River Mayanja
Forest
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
KIGOMA
KIREKA
GANDA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

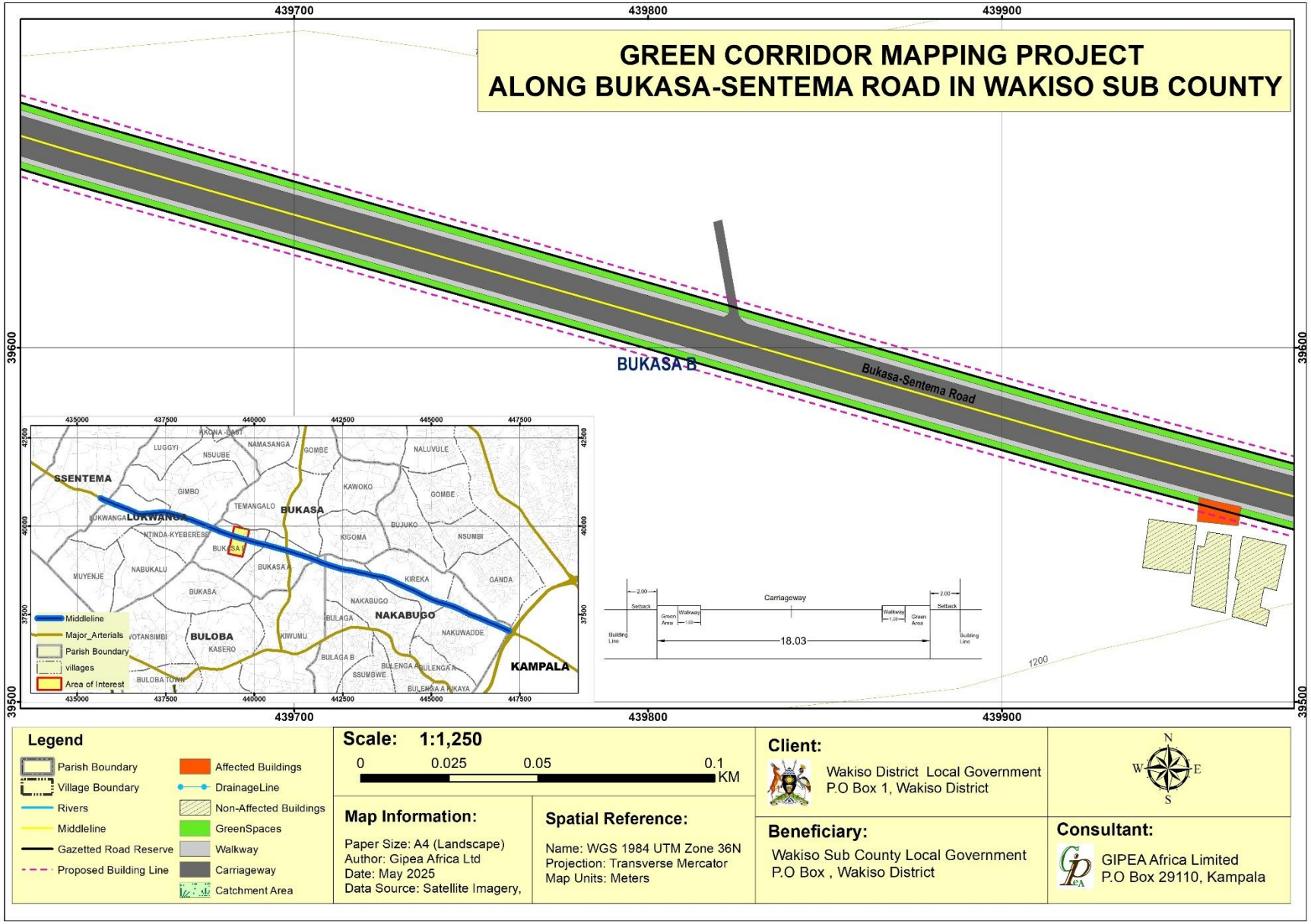

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
441300
441400
441500
39200
39100
BUKASA A
Bukasa-Sentema Road
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
W
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala

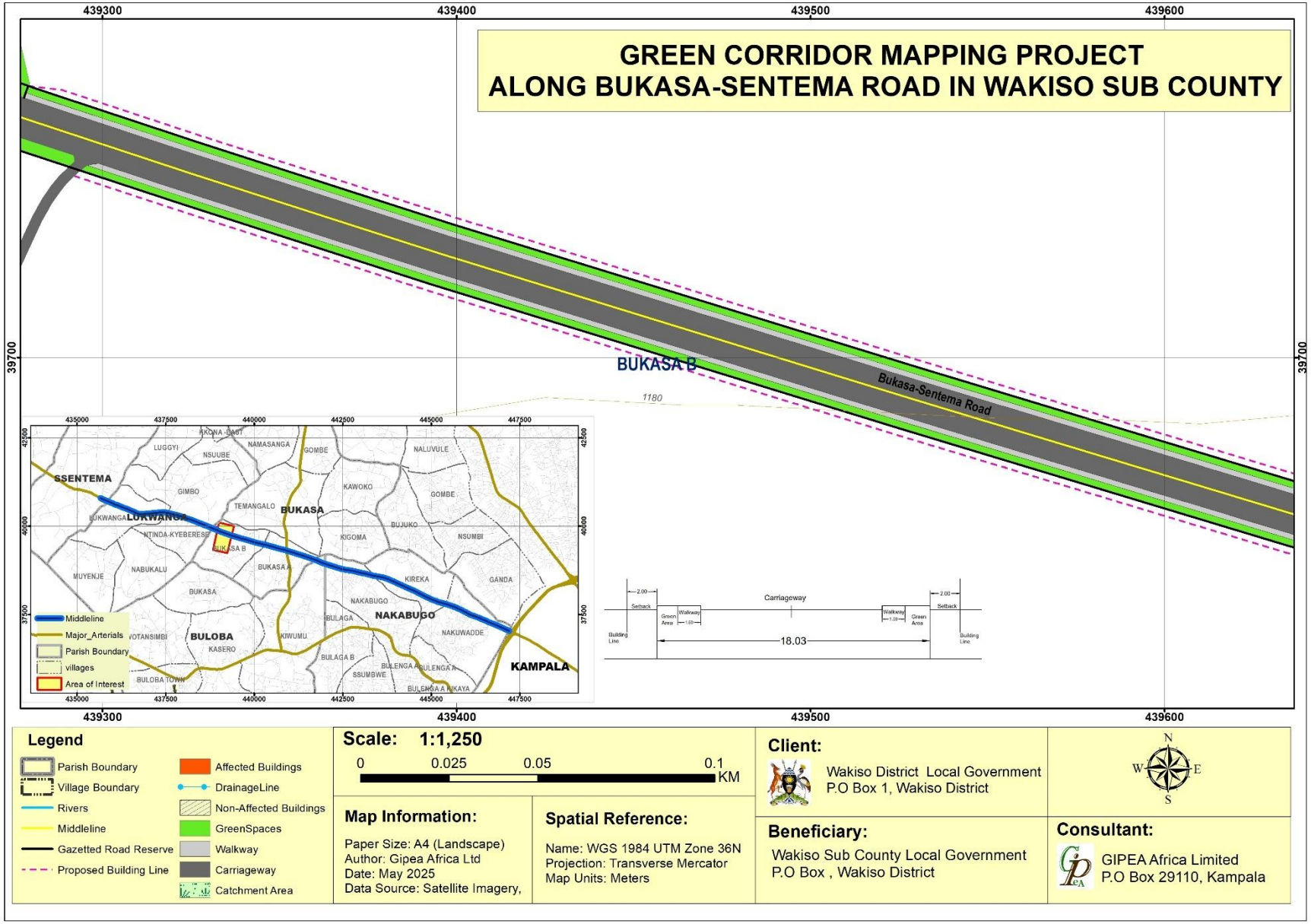

GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
Blasio Konde Memorial SS
Bukasa Trading Center
BUKASA A
Bukasa-Sentema Road
Gardens
440900
441000
441100
441200
39300
39200
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0 0.025 0.05 0.1 KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala
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GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
440600
440700
440800
440900
39400
39300
Farm
1200
Bukasa-Sentema Road
BUKASA A
Bukasa
Trading Center
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Green Area
Walkway
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala


GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
BUKASA B
BUKASA A
Bukasa-Sentema Road
St Aloysius Mixed Pri Sch Bukasa
440300
440400
440500
440600
39500
39400
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0 0.025 0.05 0.1 KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala


GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
440000
440100
440200
440300
39600
39500
BUKASA B
Bukasa-Sentema Road
St Stephens
C.O.U
BUKASA A
1200
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Walkway
Green Area
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
W
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Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala


GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
439700
439800
439900
39600
39500
BUKASA B
Bukasa-Sentema Road
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Walkway
Green Area
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
W
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S
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala



Legend

- Parish Boundary
- Village Boundary
- Rivers
- Middleline
- Gazetted Road Reserve
- Proposed Building Line
- Affected Buildings
- DrainageLine
- Non-Affected Buildings
- GreenSpaces
- Walkway
- Carriageway
- Catchment Area

Scale: 1:1,250

0 0.025 0.05 0.1 KM

Map Information:

Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,

Spatial Reference:

Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters

Client:

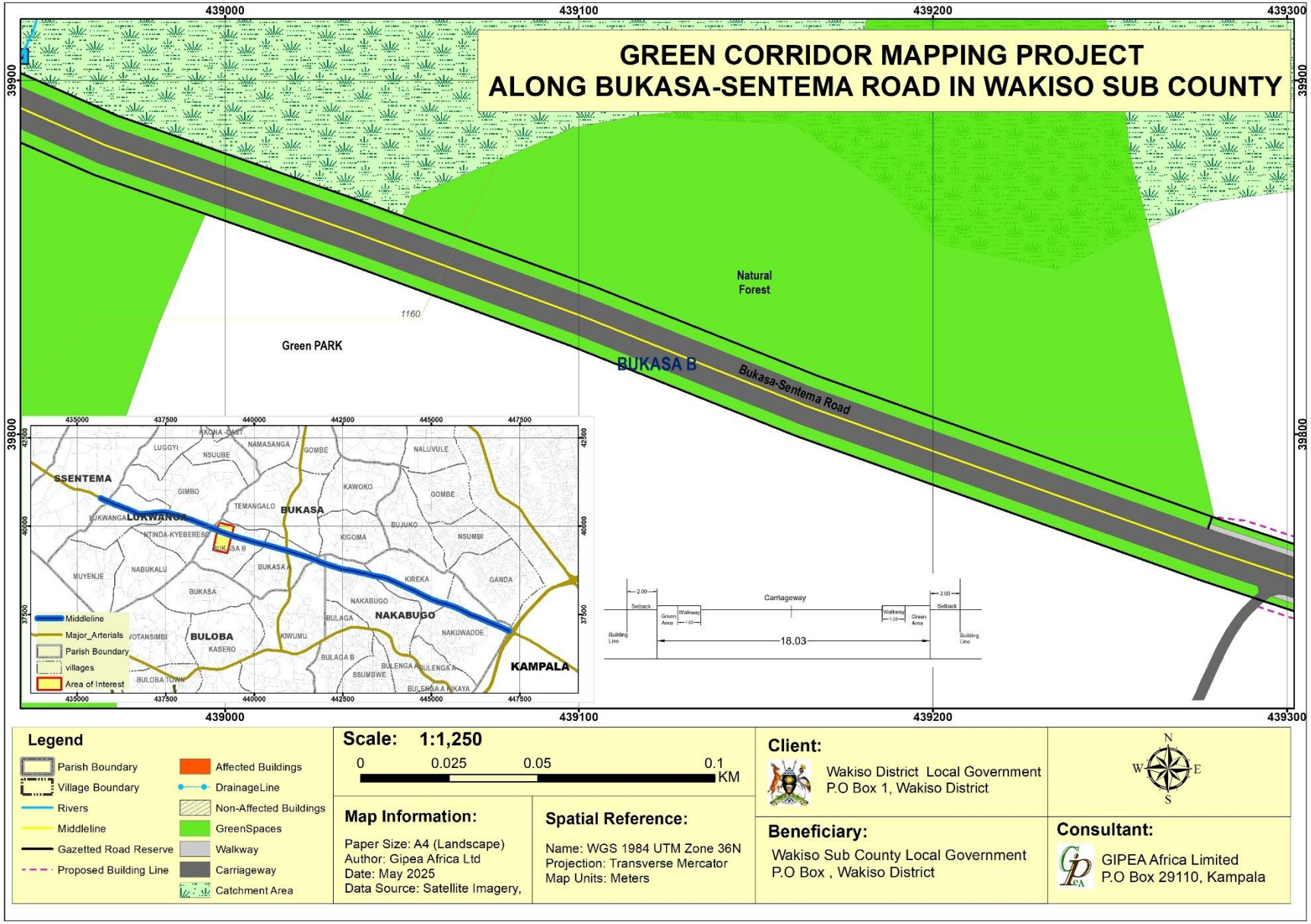
Wakiso District Local Government
P.O Box 1, Wakiso District

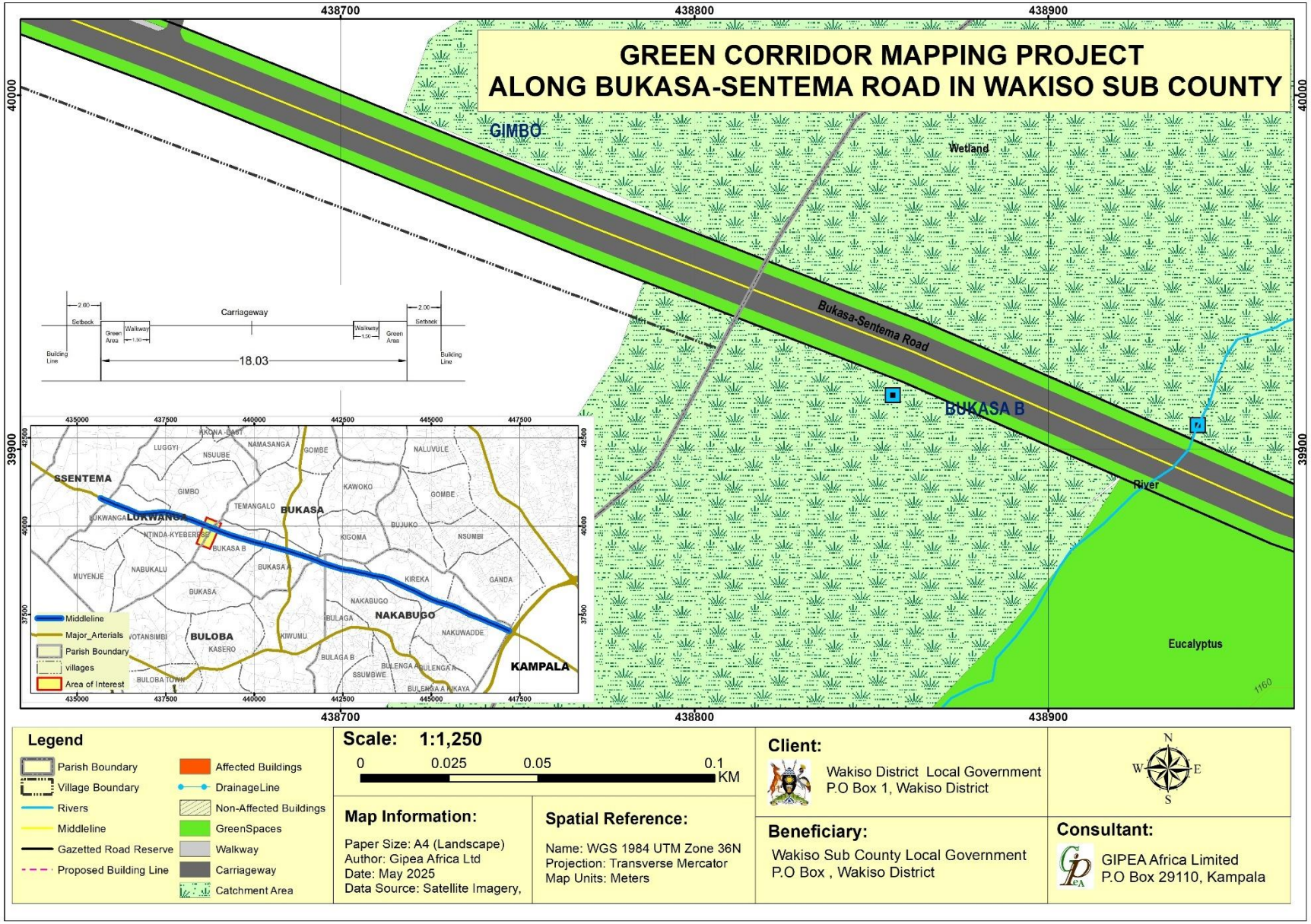
Beneficiary:

Wakiso Sub County Local Government
P.O Box , Wakiso District

Consultant:

GIPEA Africa Limited
P.O Box 29110, Kampala


GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
439000
439100
439200
439300
39900
39800
Natural Forest
Green PARK
1160
BUKASA B
Bukasa-Sentema Road
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Walkway
Green Area
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
0
0.025
0.05
0.1
KM
Map Information:
Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,
Spatial Reference:
Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters
Client:
Wakiso District Local Government
P.O Box 1, Wakiso District
Beneficiary:
Wakiso Sub County Local Government
P.O Box , Wakiso District
N
W
E
S
Consultant:
GIPEA Africa Limited
P.O Box 29110, Kampala



Legend

- Parish Boundary
- Village Boundary
- Rivers
- Middleline
- Gazetted Road Reserve
- Proposed Building Line
- Affected Buildings
- DrainageLine
- Non-Affected Buildings
- GreenSpaces
- Walkway
- Carriageway
- Catchment Area

Scale: 1:1,250

0 0.025 0.05 0.1 KM

Map Information:

Paper Size: A4 (Landscape)
Author: Gipea Africa Ltd
Date: May 2025
Data Source: Satellite Imagery,

Spatial Reference:

Name: WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
Map Units: Meters

Client:

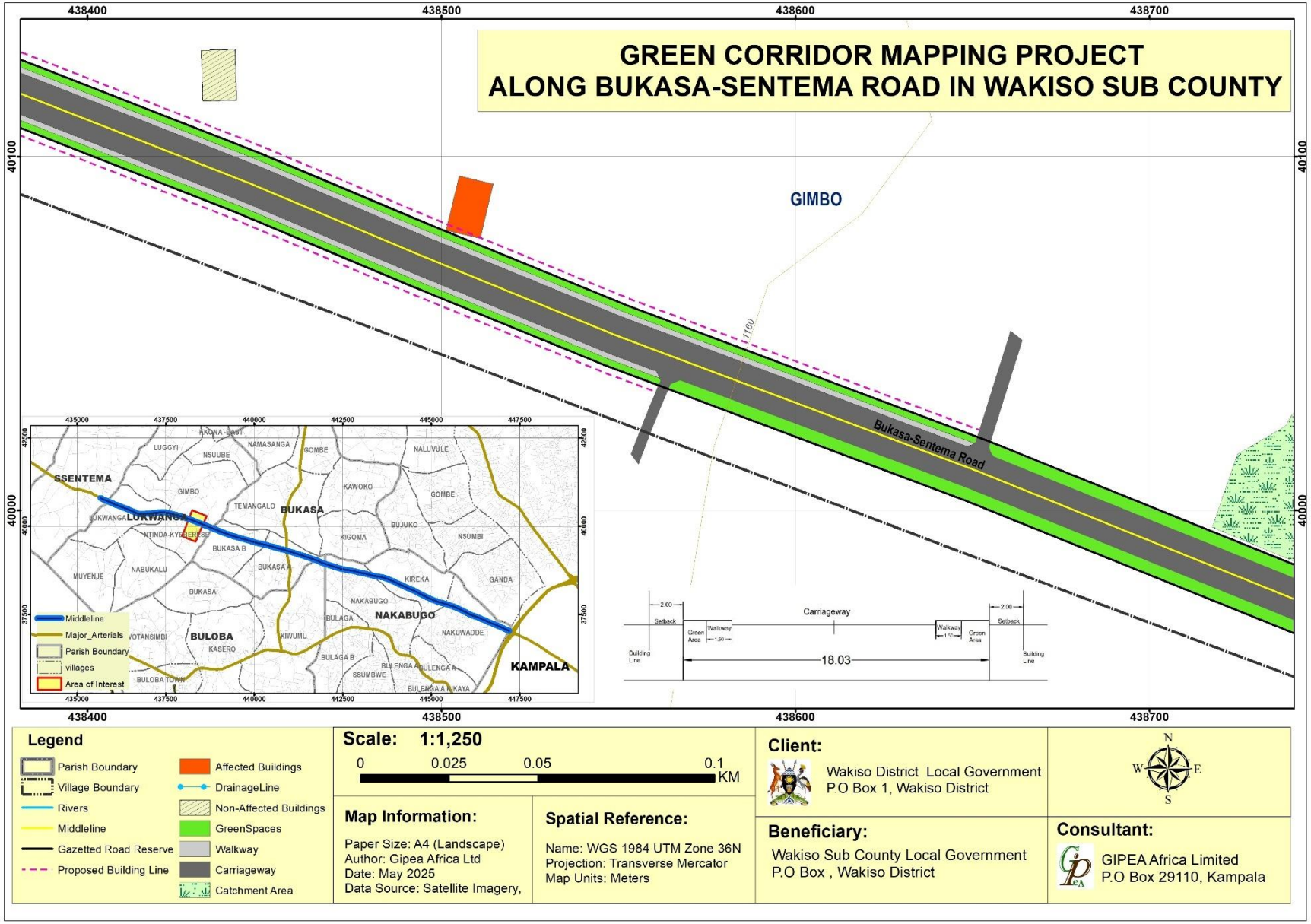
Wakiso District Local Government
P.O Box 1, Wakiso District

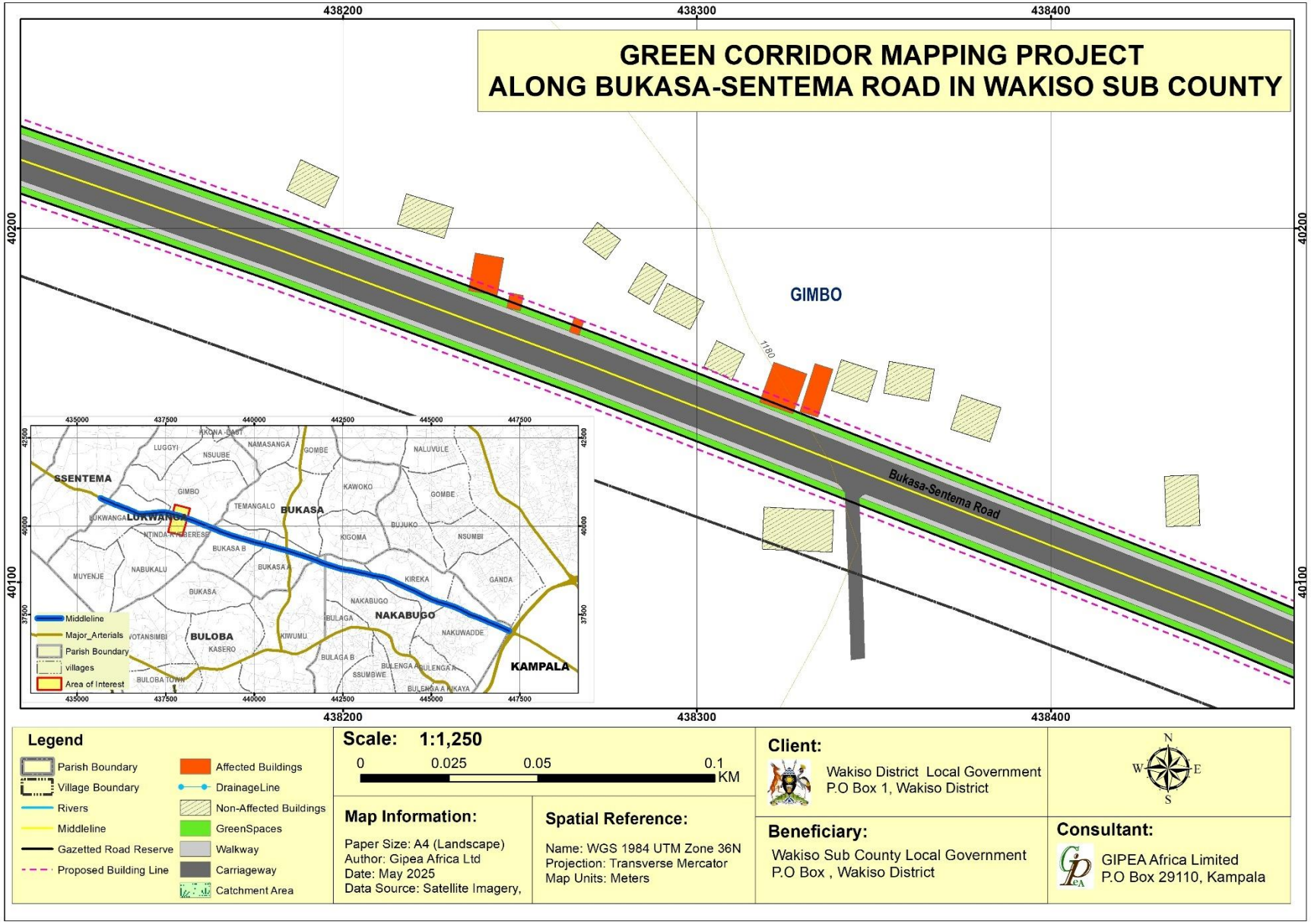
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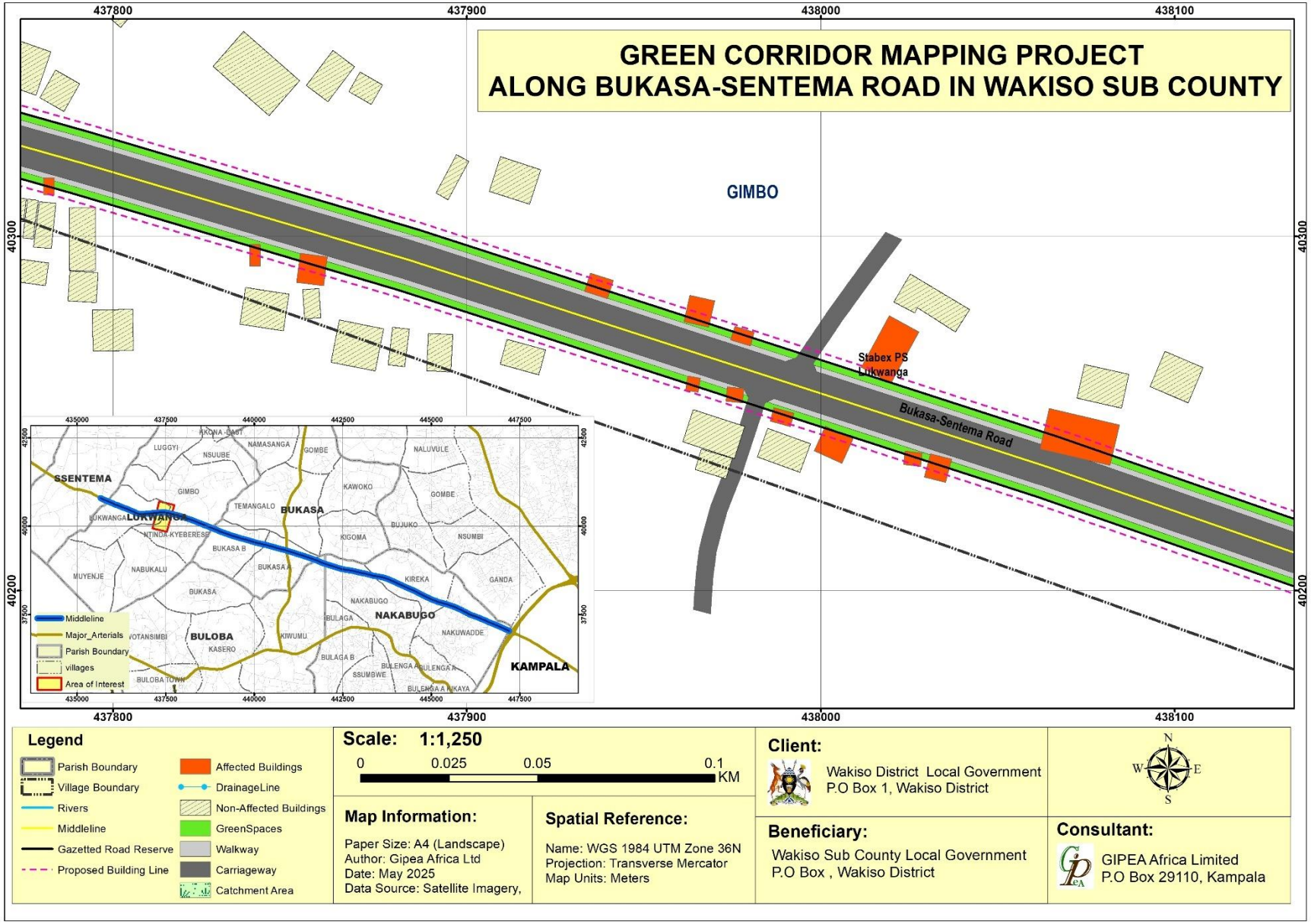
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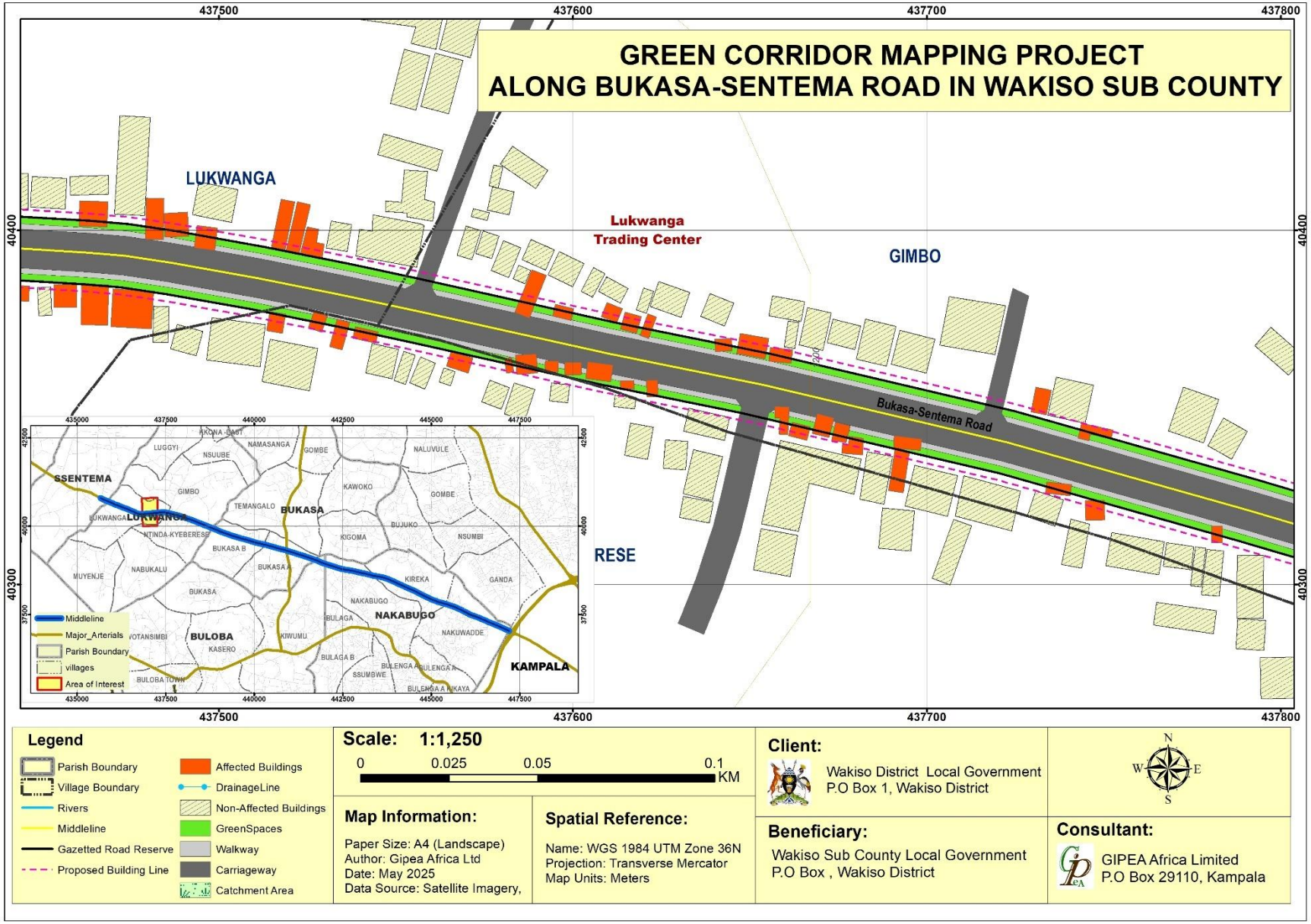
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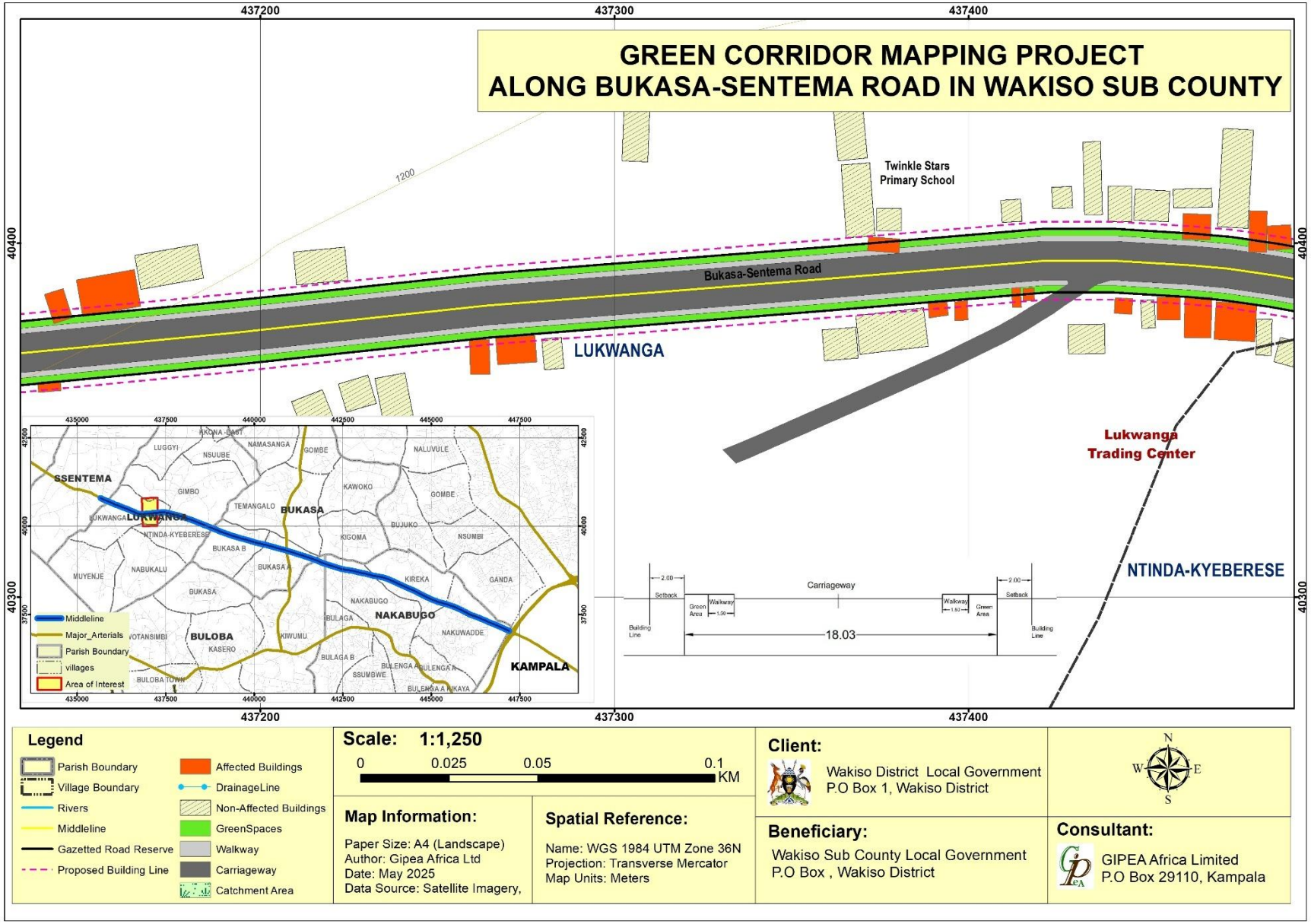
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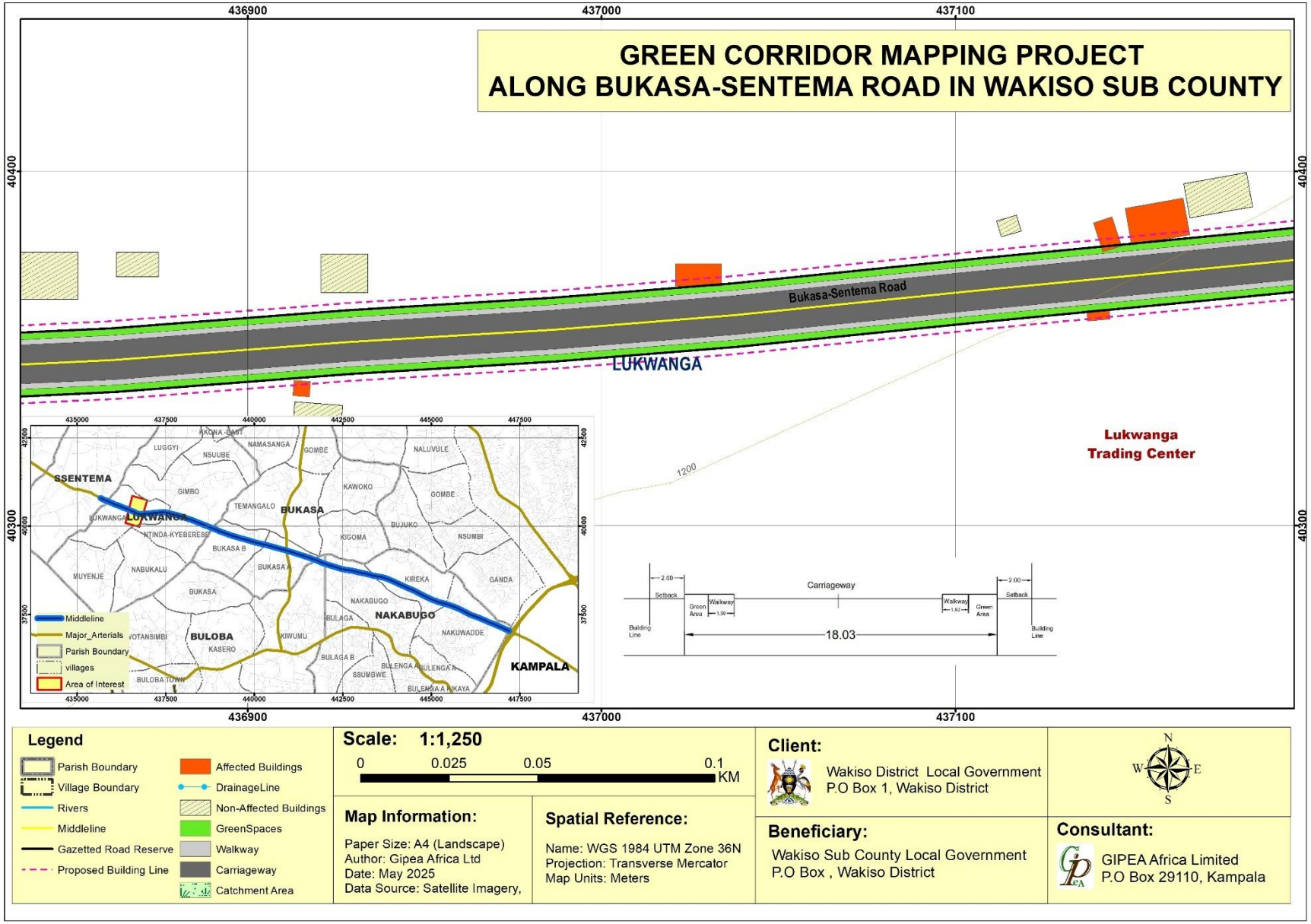

GREEN CORRIDOR MAPPING PROJECT
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GIMBO
Bukasa-Sentema Road
438400
438500
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438700
40100
40000
SSENTEMA
LUKWANGA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
Carriageway
Setback
Walkway
Green Area
Building Line
18.03
Legend
Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
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Catchment Area
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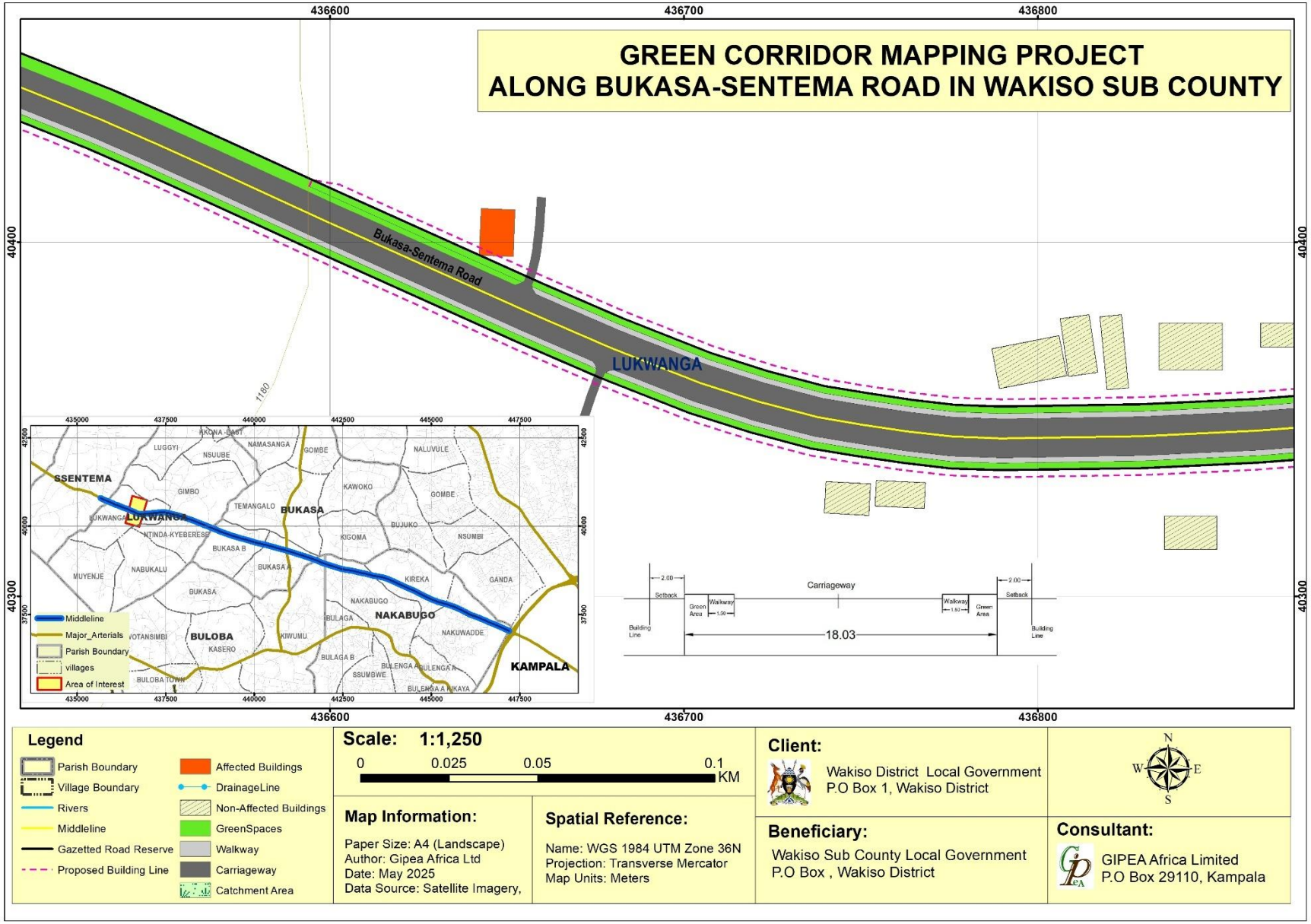

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GREEN CORRIDOR MAPPING PROJECT
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NAKABUGO
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Parish Boundary
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GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
LUKWANGA
Lukwanga
Trading Center
GIMBO
Bukasa-Sentema Road
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437500
437600
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BUKASA
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Proposed Building Line
Affected Buildings
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GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
437200
437300
437400
40400
40300
Twinkle Stars Primary School
Bukasa-Sentema Road
LUKWANGA
Lukwanga Trading Center
NTINDA-KYEBERESE
1200
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BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
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Area of Interest
Carriageway
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Parish Boundary
Village Boundary
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Gazetted Road Reserve
Proposed Building Line
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GREEN CORRIDOR MAPPING PROJECT
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Bukasa-Sentema Road
LUKWANGA
Lukwanga
Trading Center
1200
SSENTEMA
BUKASA
BULOBA
NAKABUGO
KAMPALA
LUKWANGA
Middleline
Major_Arterials
Parish Boundary
villages
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Carriageway
Setback
Green Area
Walkway
Building Line
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Village Boundary
Rivers
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Proposed Building Line
Affected Buildings
DrainageLine
Non-Affected Buildings
GreenSpaces
Walkway
Carriageway
Catchment Area
Scale: 1:1,250
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Legend

- Parish Boundary
- Village Boundary
- Rivers
- Middleline
- Gazetted Road Reserve
- Proposed Building Line
- Affected Buildings
- DrainageLine
- Non-Affected Buildings
- GreenSpaces
- Walkway
- Carriageway
- Catchment Area

Scale: 1:1,250

0 0.025 0.05 0.1 KM

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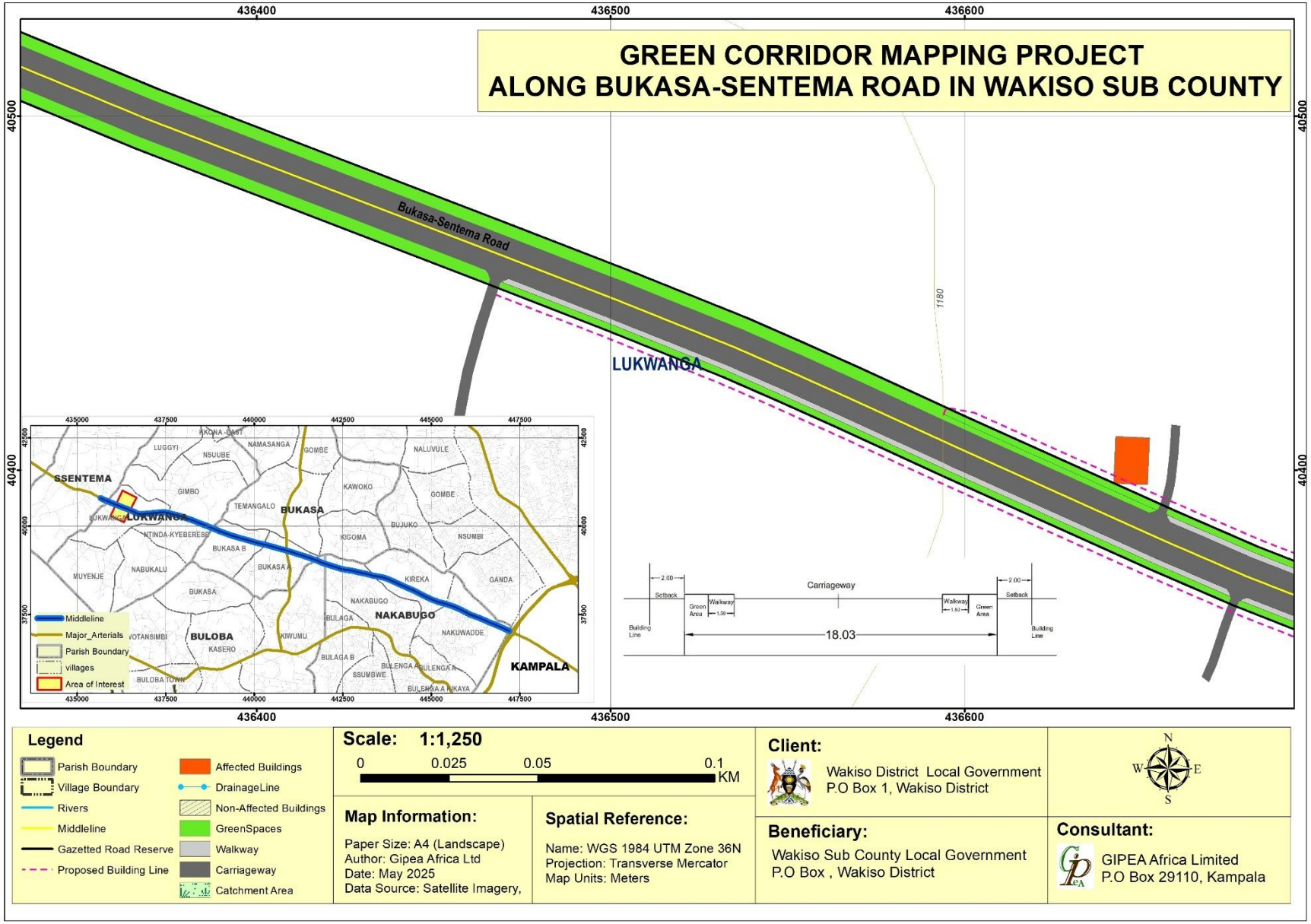
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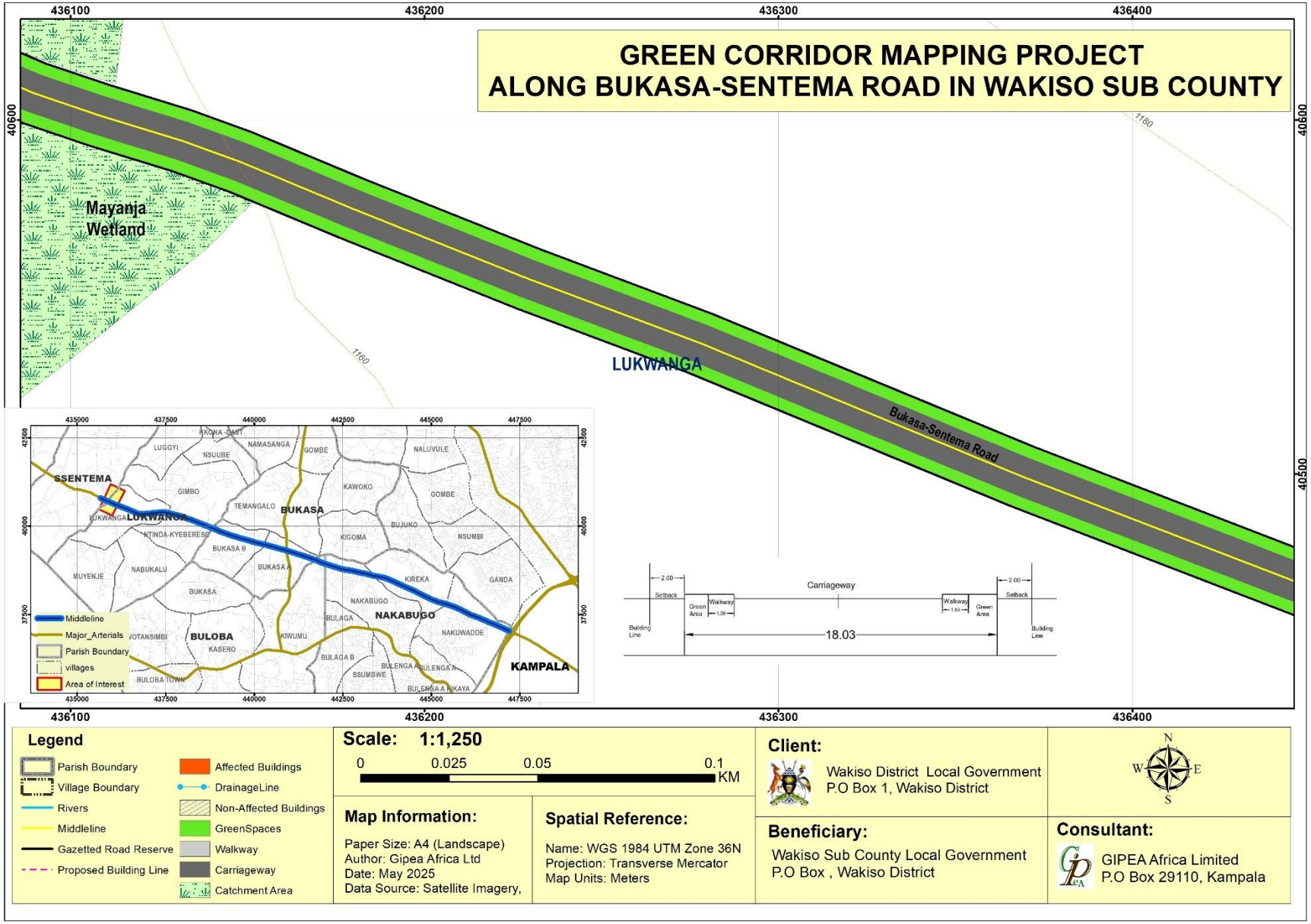
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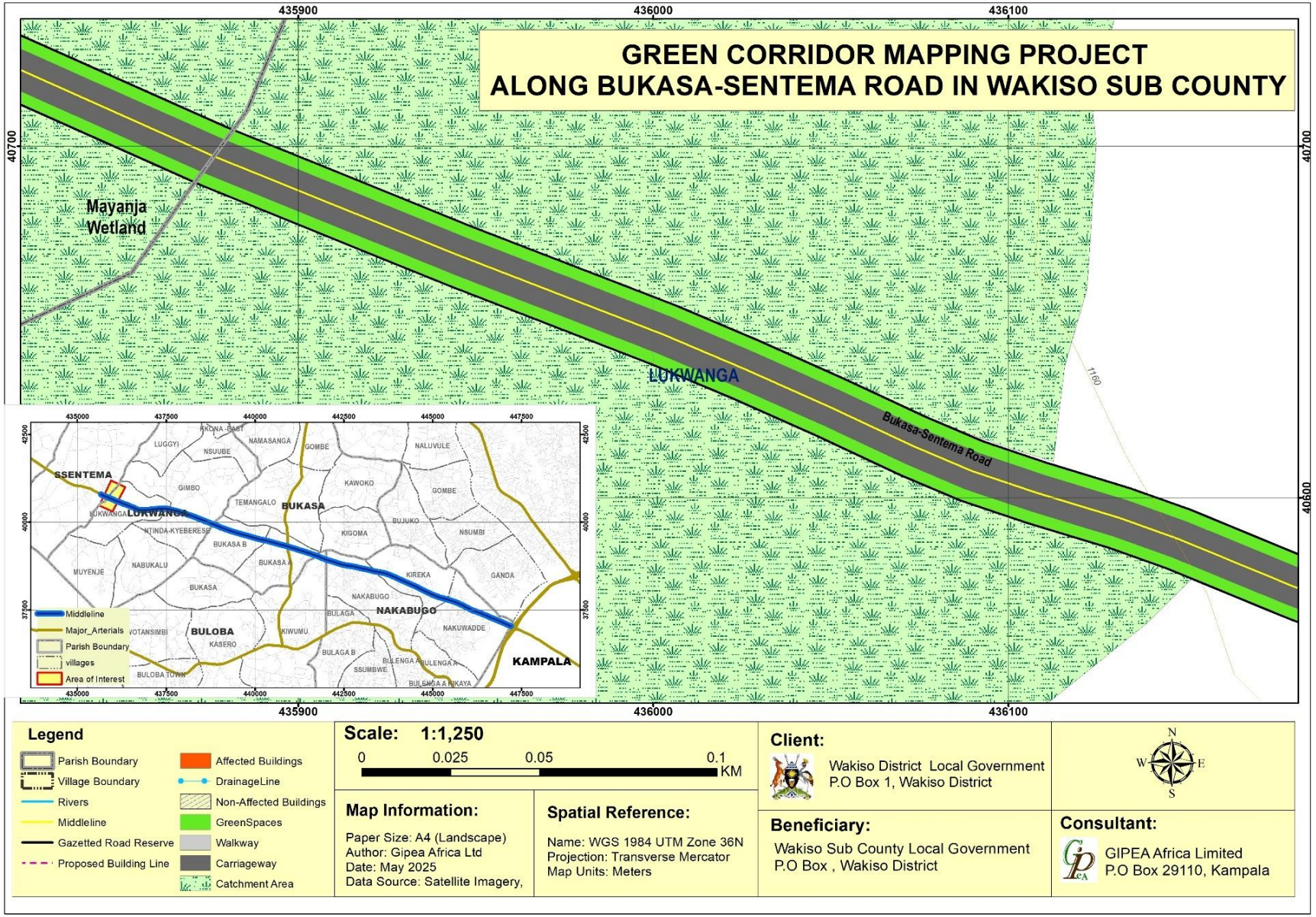
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GREEN CORRIDOR MAPPING PROJECT
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436400
436500
436600
40500
40400
Bukasa-Sentema Road
LUKWANGA
1180
SSENTEMA
BUKASA
BULOBA
NAKABUGO
KAMPALA
Middleline
Major_Arterials
Parish Boundary
villages
Area of Interest
2.00
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Green Area
Walkway
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Carriageway
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Parish Boundary
Village Boundary
Rivers
Middleline
Gazetted Road Reserve
Proposed Building Line
Affected Buildings
DrainageLine
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Carriageway
Catchment Area
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GREEN CORRIDOR MAPPING PROJECT
ALONG BUKASA-SENTEMA ROAD IN WAKISO SUB COUNTY
436100
436200
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Mayanja Wetland
LUKWANGA
Bukasa-Sentema Road
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Proposed Building Line
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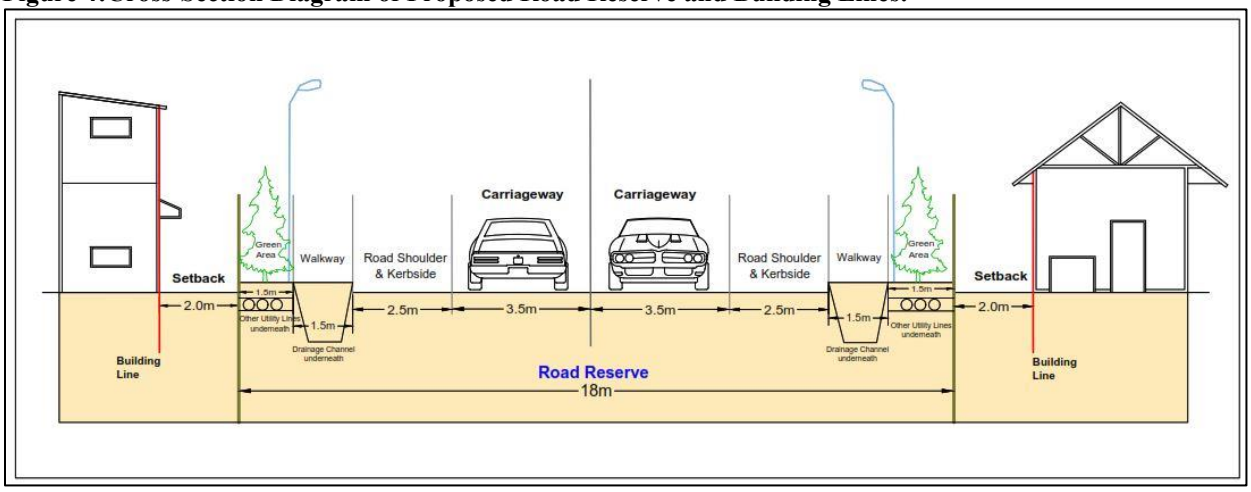

GREEN CORRIDOR MAPPING PROJECT
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Mayanja Wetland
LUKWANGA
Bukasa-Sentema Road
1160
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BULOBA
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Middleline
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villages
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Proposed Building Line
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P.O Box 1, Wakiso District
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Wakiso Sub County Local Government
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Consultant:
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4.2 Cross Sections.

Cross-sectional diagrams are crucial for effectively visualizing the spatial relationships between roadways, adjacent buildings, and natural features. The diagram below presents a representative cross-section from a pilot area, illustrating key elements such as traffic lanes, green buffers, and designated building setback zones.

Cross-sectional diagrams are crucial for effectively visualizing the spatial relationships between roadways, adjacent buildings, and natural features. The diagram below presents a representative cross-section from a pilot area, illustrating key elements such as traffic lanes, green buffers, and designated building setback zones.

Figure 4:Cross-Section Diagram of Proposed Road Reserve and Building Lines.



4.3 Efficient Drainage System Design.

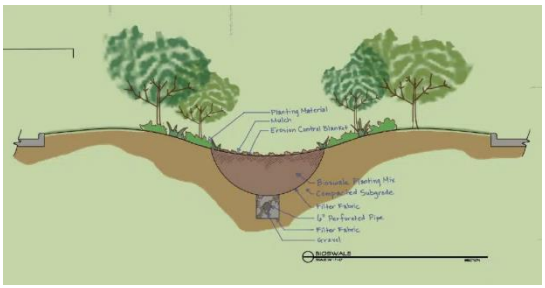
An efficient drainage system is fundamental to sustainable infrastructure planning, especially in regions prone to heavy rainfall and flooding. In Wakiso Sub County and Kyengera Town Council, drainage solutions must be resilient, low-maintenance, and environmentally friendly.

4.3.1 Upgraded Culverts and Channels.

To replace outdated drainage structures, upgraded culverts with larger capacities are planned. These culverts will be engineered to handle peak flow rates predicted by hydrological models. Additionally, self-cleaning channel designs will be implemented to minimize the risk of blockages, ensuring continuous water flow.

4.3.2 Retention Ponds and Bioswales.

Retention ponds and vegetated bioswales[1] will be integrated along the corridor to effectively manage stormwater runoff while enhancing the aesthetic value of the landscape. Bioswales serve a dual purpose: they absorb excess water while filtering pollutants—a crucial function in urban environments.



[1] Bioswels are shallow linear depressions planted with vegetation designed to capture, treat and infiltrate storm water runoff

Table 6: Key Specifications of the Proposed Drainage System.

Drainage Feature	Specification	Benefit
Culvert Diameter	1.5 - 2.0 meters	Accommodates high flow rates, reducing flood risk.
Channel Slope	2% - 3% gradient	Ensures rapid water movement and minimizes sedimentation.
Retention Pond Size	1,000 - 5,000 m²	Provides adequate storage during extreme weather events.
Bioswale Width	3 - 5 meters	Enhances water absorption and natural filtration.

Source: NPPS&G

4.4 Integration with Road Infrastructure.

The drainage system is seamlessly integrated with the roadway layout to ensure functionality and efficiency. Drainage channels double as pedestrian walkways, while adjacent green buffer zones provide space for bioswales and retention ponds. This approach ensures that drainage considerations are embedded within the core infrastructure design, reflecting strategies used in advanced urban planning.

4.5 Pedestrian Walkways and Green Space Integration.

The human element plays a critical role in urban infrastructure. Safe, accessible, and visually appealing pedestrian amenities encourage active transportation, reduce traffic congestion, and improve overall community well-being.

4.5.1 Walkway Design.

Walkways should be designed with a minimum width of 1.5 - 2 meters to comfortably accommodate both pedestrians and cyclists. These paths should be continuous, unobstructed, and permeable in select sections to reduce water runoff. Key connectivity points should include residential communities, commercial hubs, and public transit stops. To enhance usability and safety, walkways must feature adequate lighting, signage, and pedestrian crossings. In busy sections, protective barriers can help shield pedestrians from vehicular intrusion.

Furthermore, incorporating trees, shrubs, and landscaped medians will improve aesthetic appeal while serving essential environmental functions such as air filtration and natural cooling. These elements also discourage vehicular encroachment and promote community engagement.

Integrating pedestrian walkways with public transit networks will optimize urban mobility. Strategically placing walkways near taxi stops and bus stations will encourage usage and enhance urban connectivity.

4.5.2 Green Space Proposals.

The designation of green corridors along Bukasa-Sentema Road, Kitemu-Kisozi Road, and Naggalabi Spur will be crucial for environmental conservation, recreational activities, and ecological connectivity. These corridors serve multiple functions: they act as buffers against urban heat, provide habitats for local flora and fauna, and offer residents accessible areas for leisure and wellness.

a). Selection of Suitable Locations.

GIS mapping has been employed to identify underutilized or flood-prone areas. These spaces will be repurposed into parks, community gardens, or natural reserves. The planning process integrates

data on current vegetation cover and land use to guide site selection, ensuring the optimization of ecological and social benefits.

The design of green spaces and belts extends beyond passive recreation. Incorporating active elements such as sports fields, community centers, and outdoor performance areas will foster social interaction and strengthen community cohesion. Strategic planting of native species will further enhance biodiversity, provide shade, and improve water absorption capacity.

Table 7: Proposed Specifications for Pedestrian Walkways and Green Spaces.

Element	Specification	Expected Benefit
Walkway Width	1.5 - 2 meters	Provides safe and comfortable movement for pedestrians and cyclists.
Safety Features	Lighting, raised crossings	Enhances safety and minimizes accident risks.
Green Corridor Width	10 - 15 meters	Improves environmental sustainability and recreational accessibility.
Vegetation Density	30% - 40% canopy cover	Enhances air quality and provides urban cooling.
Accessibility Points	Minimum 3 per kilometre.	Improves community connectivity and access.

Source: NPPS&G

Table 8: Summary of Green Corridor Infrastructure Interventions.

Green Infrastructure	Application
Rainwater harvesting	Captures rainwater at the source for local use.
Rain gardens	Shallow, vegetated basins that collect and absorb runoff.
Planter boxes	Suitable for densely developed areas, such as business districts.
Bioswales	Linear features designed for roads and large paved areas.
Permeable pavements	Ideal for pedestrian zones, parking areas, and low-speed roads.
Street trees	Improves air filtration, noise reduction, climate regulation, and quality of life.
Green streets	Integrates multiple green infrastructure components into street design.
Green parking	Uses porous paving, rain gardens, and bioswales to enhance sustainability.
Green roofs	Cost-effective for multi-story buildings, though expensive for retrofitting.
Urban tree canopy	Increases rainfall interception while regulating ambient temperatures.
Land conservation	Protects green open spaces and sensitive natural environments.

PART THREE

5.0 IMPLEMENTATION STRATEGY.

Given the complexity of this project, a phased approach to implementation is recommended. This method enables iterative improvements and adjustments based on monitoring results and stakeholder feedback, minimizing risks and ensuring long-term success.

5.1 Phase 1: Preliminary Assessments and Piloting.

a) Initial Data Collection and Mapping.

A comprehensive baseline study utilizing GIS and field surveys will be conducted to gather current data on land use, traffic patterns, drainage systems, and environmental conditions. Specialized teams will develop cross-sectional and aerial maps to establish initial building lines and road reserves.

b) Pilot Implementation.

A small-scale pilot project, focusing on a section of the corridor, will test proposed pedestrian walkway designs, drainage improvements, and green space integration. This pilot phase will provide valuable data on practical challenges and effectiveness, akin to the iterative refinement seen in simulation models.

5.2 Phase 2: Full-Scale Infrastructure Development.

a) Expansion of Road Reserves and Building Lines.

Following a review of pilot data, permanent building lines and road reserves will be established across the entire corridor. This phase will ensure strict adherence to projected dimensions as outlined in Table 1.

b) Comprehensive Drainage and Pedestrian Infrastructure Installations.

The full-scale rollout will include the installation of upgraded drainage systems—culverts, retention ponds, and bioswales—alongside integrated pedestrian pathways. Collaboration with local utility providers and government entities will be essential for streamlined project execution.

5.3 Phase 3: Monitoring, Evaluation, and Iterative Improvement.

a) Ongoing Status Reporting.

Utilizing best practices from project management methodologies, regular status reports will document progress, challenges, and milestones. These reports will track task completion rates, budget utilization, and safety indicators to ensure efficiency and accountability.

b) Feedback Loops and Adaptive Planning.

Community and stakeholder feedback will be incorporated into subsequent design iterations. This adaptive feedback loop ensures continuous improvements as infrastructure evolves to meet changing needs and emerging challenges.

5.4 Implementation Timeline.

The table below outlines the proposed implementation timeline for the Green Corridor Project, detailing key milestones for each phase.

Table 9: Proposed Implementation Timeline.

Phase	Duration	Key Activities
Phase 1: Preliminary Assessments	2 - 4 months	Data collection, baseline mapping, pilot project launch.
Phase 2: Full-Scale Development	1 - 3 years	Expansion of road reserves, infrastructure installations, systematic drainage upgrades. Adherence to **National Physical Planning Standards** and **UNRA guidelines** for road widths, setbacks, and drainage specifications.
Phase 3: Monitoring & Evaluation	Ongoing (post Phase 2)	Regular status reporting, monitoring, and enforcement against encroachment violations. • Organizing workshops, town halls, and distributing educational materials on building standards and the benefits of orderly development. • <Collaborating with local authorities, communities, and urban planners for feedback and input. • Raising awareness on ecological mapping to enhance participation in reserve establishment. • Partnering with local leaders, developers, and NGOs to foster compliance and ownership. Conducting Environmental Impact Assessments (EIAs) to minimize disruptions to wetlands and ecosystems.

6.0 CONCLUSION AND RECOMMENDATIONS.

6.1 Conclusion.

The mapping and infrastructure planning project for green corridors along Bukasa-Sentema-Kakiri Road, Kitemu-Kisozi Road, and Naggalabi Spur in Wakiso District represents a forward-thinking approach to urban development. Leveraging extensive field surveys, GIS mapping, technical analyses, and stakeholder engagement, this initiative promotes an integrated infrastructure model that balances environmental sustainability, social inclusivity, and technical feasibility.

The transformation of these corridors into green urban spaces embodies innovative urban planning, ensuring well-defined building lines and road reserves, advanced drainage solutions, and expansive pedestrian-friendly environments. This holistic strategy, combining technical precision, community engagement, and adaptive development, will guide the project's evolution in line with urban dynamics and mitigate risks while maximizing long-term benefits.

6.2 Key Recommendations.

i. Define and Enforce Building Lines and Road Reserves.

- Establish clear setback distances and designated road reserves to promote organized urban growth and enable future infrastructure expansion.
- Utilize GIS mapping and spatial analysis to ensure accurate determination of building lines, minimizing encroachment and optimizing land use.

ii. Implement Advanced Drainage Solutions.

- Upgrade existing drainage infrastructure with high-capacity culverts, bioswales, and retention ponds, seamlessly integrated into the green corridor framework.
- Emphasize preventive maintenance and continuous monitoring to ensure long-term system efficiency and resilience against extreme weather events.

iii. Enhance Pedestrian Facilities and Expand Green Spaces.

- Develop continuous, well-lit, and safe pedestrian walkways to encourage active mobility and reduce traffic congestion.
- Integrate green spaces not only as recreational areas but also as functional stormwater management and urban cooling systems, improving environmental quality.

iv. Adopt a Phased Implementation Strategy.

- Execute the project through a structured, multi-phase approach starting with preliminary assessments and pilot initiatives, followed by full-scale development, and culminating in ongoing monitoring and iterative improvements.
- This approach allows for risk mitigation and dynamic optimization, incorporating lessons learned at each stage.

vi. Plan for Long-Term Sustainability.

- Embed environmental, economic, and social sustainability measures across the project lifecycle.
- Implement continuous monitoring, adaptive planning, and sustainable maintenance practices to ensure the project evolves in response to urban growth and environmental changes.

v. Establish Robust Stakeholder Engagement and Feedback Channels.

- Conduct regular status reporting and community consultations, ensuring active participation from local residents, government agencies, and key stakeholders.
- Foster trust and transparency while minimizing legal disputes, ensuring alignment with local urban policies and community aspirations.

Effective Stakeholder engagement is a vital component of any infrastructure project, especially when developing green corridors and urban planning initiatives. Here's why it's essential:

stakeholder engagement is a critical aspect of any infrastructure project, particularly when planning green corridors and urban development initiatives. Its significance cannot be overstated for the following reasons:

1. Inclusivity and Community Buy-In.

Engaging stakeholders including residents, businesses, government agencies, and environmental groups ensures that diverse perspectives are considered. When people feel heard and involved in the planning process, they are more likely to support and advocate for the project, reducing resistance and fostering long-term commitment.

2. Improved Project Design and Implementation.

Stakeholder feedback provides valuable insights into real-world challenges and practical needs. Local residents understand daily mobility issues, business owners can highlight economic impacts, and urban planners can suggest feasible design enhancements. This collaborative approach leads to better infrastructure solutions that align with community requirements.

3. Regulatory Compliance and Policy Alignment.

Government agencies and regulatory bodies play a crucial role in ensuring the project adheres to zoning laws, environmental regulations, and urban development policies. Engaging them early prevents legal obstacles and streamlines approval processes, ensuring smooth implementation.

4. Risk Mitigation and Conflict Resolution.

Infrastructure projects can trigger concerns regarding land use, environmental impact, and property rights. Continuous stakeholder engagement helps identify potential conflicts early, allowing

planners to address them proactively through negotiation, compensation strategies, and transparent communication.

5. Sustainable Long-Term Success.

Stakeholders are not only involved in the initial planning stages but also contribute to monitoring, maintenance, and adaptation of the project over time. Community-driven efforts foster a sense of ownership, ensuring that infrastructure remains functional, well-maintained, and aligned with evolving urban needs.

6. Strengthened Funding and Partnerships.

Engaging NGOs, private investors, and development partners can help secure additional financial support and resources. A project backed by strong stakeholder partnerships has greater credibility, increasing opportunities for funding and technical expertise.

Appendices

Appendix 1: References

1) A Framework for Green Infrastructure Planning Approach in the Gauteng City-Region, South Africa, 2016
2) Ahern, J. 2007. Green infrastructure for cities: The spatial dimension. In: V. Nonotny and P. Brown, (Eds.). Cities of the future: Towards integrated sustainable water and landscape management. London: IWA Publishing.
3) Benedict, M. and McMahon, E. T. 2002, Green infrastructure: Smart conservation for the 21st century. Washington D.C: Sprawl Watch Clearing house.
4) Final Draft of National Physical Planning Standards and Guidelines,2022
5) National Physical Planning Standards and Guidelines, 2011

Appendix 2: Building Line coordinates for Pegs along the Green Corridors

Building Line Points to Peg along Bukasa-Sentema Road					
Points	**X**	**Y**	**Points**	**X**	**Y**
pt 1	446665.859	37366.4605	pt 108	440300.4941	39466.9353
pt 2	446647.2449	37341.8052	pt 109	440267.3998	39474.5724
pt 3	446625.2129	37307.3745	pt 110	440226.6864	39484.7508
pt 4	446541.7698	37343.8527	pt 111	440146.3246	39504.1336
pt 5	446480.437	37370.0653	pt 112	440077.0391	39521.3
pt 6	446419.095	37396.2819	pt 113	439918.8782	39563.6124
pt 7	446389.6878	37408.4912	pt 114	439754.0071	39610.7962
pt 8	446352.6229	37423.8798	pt 115	439634.0883	39644.9815
pt 9	446309.2731	37439.6972	pt 116	439524.7032	39678.0517
pt 10	446244.2054	37462.7831	pt 117	439392.4642	39718.7408
pt 11	446179.0145	37485.32	pt 118	439321.2003	39741.6472
pt 12	446140.4654	37498.791	pt 119	439292.0102	39751.29
pt 13	446114.8783	37508.8021	pt 120	441300.1939	39202.6089
pt 14	446094.552	37518.4166	pt 121	441287.1395	39208.7198
pt 15	446074.8541	37528.8251	pt 122	441276.6649	39212.1765
pt 16	446054.9469	37539.8411	pt 123	441231.3291	39226.3857
pt 17	446001.1534	37568.412	pt 124	441150.0514	39251.7851
pt 18	445980.7658	37579.2834	pt 125	441063.5698	39279.7646
pt 19	445959.4454	37590.0238	pt 126	440994.7799	39300.147
pt 20	445913.9615	37612.0269	pt 127	440914.8638	39323.1045
pt 21	445883.5938	37627.2108	pt 128	440835.2964	39346.5983
pt 22	445838.2412	37650.6235	pt 129	440752.435	39369.0064
pt 23	445801.5354	37669.3021	pt 130	440671.4757	39390.8465
pt 24	445771.7598	37683.5595	pt 131	440583.5324	39415.6949
pt 25	445742.2693	37697.4485	pt 132	440504.1766	39437.4158
pt 26	445718.2508	37708.1173	pt 133	440444.2169	39454.3615
pt 27	445698.6516	37716.4811	pt 134	440395.7868	39466.81
pt 28	445664.2795	37730.8858	pt 135	440305.5212	39488.3533
pt 29	445651.4986	37735.8214	pt 136	440272.5416	39495.964
pt 30	445638.2633	37740.4579	pt 137	440231.9336	39506.1161
pt 31	445582.5922	37760.7471	pt 138	440151.5493	39525.5043
pt 32	445546.5306	37773.2922	pt 139	440082.5278	39542.6053
pt 33	445468.5198	37798.9097	pt 140	439924.748	39584.8158
pt 34	**446616.7727**	**37250.2377**	pt 141	439824.9083	39613.3885
pt 35	446620.7414	37272.304	pt 142	439760.0493	39631.9502
pt 36	446622.4877	37284.5277	pt 143	439640.2877	39666.0908
pt 37	446533.0374	37323.6598	pt 144	439531.1215	39699.0947
pt 38	446471.7911	37349.8354	pt 145	439399.0655	39739.7275

pt 39	446410.5539	37376.0072	pt 146	439328.0169	39762.5647
pt 40	446381.252	37388.1728	pt 147	439288.4721	39775.6281
pt 41	446344.6306	37403.3772	pt 148	439278.8937	39776.7423
pt 42	446301.8243	37418.9964	pt 149	**438651.9975**	**40022.7558**
pt 43	446236.9331	37442.0196	pt 150	438553.5278	40059.682
pt 44	446171.7917	37464.5394	pt 151	438497.8217	40082.471
pt 45	446132.8261	37478.156	pt 152	438449.4594	40102.8343
pt 46	446106.1566	37488.5905	pt 153	438273.8904	40171.5356
pt 47	446084.7045	37498.7375	pt 154	438184.7477	40204.646
pt 48	446064.3881	37509.473	pt 155	438067.6281	40245.3835
pt 49	446044.4604	37520.5002	pt 156	437886.9517	40303.9128
pt 50	445990.8179	37548.9909	pt 157	437793.7332	40331.5326
pt 51	445970.6398	37559.7506	pt 158	437725.4374	40350.8337
pt 52	445949.7056	37570.2965	pt 159	437656.2107	40367.1092
pt 53	445904.2515	37592.2852	pt 160	437612.2424	40375.9998
pt 54	445873.6281	37607.5969	pt 161	437556.1867	40388.4491
pt 55	445828.2064	37631.0453	pt 162	437538.0289	40392.3333
pt 56	445791.7946	37649.5743	pt 163	437513.0031	40397.3702
pt 57	445762.3223	37663.6865	pt 164	437488.2654	40401.774
pt 58	445733.1159	37677.4416	pt 165	437474.7358	40403.7806
pt 59	445709.4675	37687.9461	pt 166	437463.6885	40404.7416
pt 60	445690.0824	37696.2185	pt 167	437441.8393	40406.0579
pt 61	445656.0636	37710.4751	pt 168	437420.7203	40406.0579
pt 62	445643.8974	37715.1733	pt 169	437359.2972	40400.9393
pt 63	445630.8596	37719.7406	pt 170	437262.5986	40393.3051
pt 64	445575.211	37740.0217	pt 171	437191.3484	40385.6711
pt 65	445539.4839	37752.4504	pt 172	437102.6749	40377.1368
pt 66	**445461.8915**	**37777.9305**	pt 173	437036.4473	40370.435
pt 67	443402.2269	38609.91	pt 174	436985.7448	40366.3555
pt 68	443370.1056	38616.7321	pt 175	436927.4129	40362.8302
pt 69	443334.578	38624.3453	pt 176	436861.4093	40357.7529
pt 70	443289.1074	38634.4499	pt 177	436829.1555	40356.2173
pt 71	443251.0434	38644.6532	pt 178	436789.5741	40355.6075
pt 72	443213.275	38654.3951	pt 179	436776.681	40356.0803
pt 73	443190.1312	38659.0648	pt 180	436764.5164	40357.4855
pt 74	443121.7107	38673.4888	pt 181	436752.0391	40359.3416
pt 75	443060.5641	38687.2608	pt 182	438341.9767	40121.2686
pt 76	442981.4707	38704.3941	pt 183	438266.0513	40150.9787
pt 77	442922.611	38718.0795	pt 184	438177.3031	40183.9426
pt 78	442836.2916	38738.7446	pt 185	438060.6236	40224.527
pt 79	442716.8926	38762.0388	pt 186	437880.4358	40282.898

pt 80	442650.4799	38772.9483	pt 187	437787.6164	40310.3995
pt 81	442599.6667	38781.9998	pt 188	437719.9256	40329.5297
pt 82	442553.8629	38789.6338	pt 189	437651.5119	40345.614
pt 83	442490.738	38800.1486	pt 190	437607.6741	40354.4782
pt 84	442477.8444	38802.6144	pt 191	437553.5221	40366.5214
pt 85	442464.6862	38805.8198	pt 192	437533.5573	40370.7921
pt 86	442440.5585	38812.3698	pt 193	437508.9043	40375.754
pt 87	442400.4491	38824.8199	pt 194	437484.723	40380.0588
pt 88	442361.1207	38838.2932	pt 195	437472.1665	40381.9211
pt 89	442301.3138	38857.864	pt 196	437462.0735	40382.799
pt 90	442196.1711	38891.5555	pt 197	437441.1772	40384.0579
pt 91	442116.3676	38916.1902	pt 198	437421.6354	40384.0579
pt 92	442038.1913	38939.6916	pt 199	437361.0764	40379.0113
pt 93	**442001.6069**	**38951.9701**	pt 200	437264.6366	40371.3975
pt 94	441297.7897	39184.4382	pt 201	437193.5741	40363.7837
pt 95	441280.8418	39187.8122	pt 202	437104.8362	40355.2432
pt 96	441224.7495	39205.3926	pt 203	437038.4372	40348.524
pt 97	441143.3842	39230.8195	pt 204	436987.2907	40344.4088
pt 98	441057.0578	39258.7487	pt 205	436928.9202	40340.8811
pt 99	440988.6177	39279.0274	pt 206	436862.7763	40335.7931
pt 100	440908.7116	39301.9821	pt 207	436829.8483	40334.2254
pt 101	440829.309	39325.4272	pt 208	436789.3402	40333.6013
pt 102	440746.6918	39347.7692	pt 209	436775.013	40334.1267
pt 103	440665.6195	39369.6398	pt 210	436761.6348	40335.6721
pt 104	440577.6373	39394.4992	pt 211	436748.6039	40337.6105
pt 105	440498.2808	39416.2203	pt 212	436735.5141	40339.802
pt 106	440438.4861	39433.1195	pt 213	436718.1441	40344.3814
pt 107	440390.4943	39445.4552	pt 214	436700.8465	40349.9013
pt 215	445413.2747	37792.6906	pt 245	445241.8525	37862.2161
pt 216	445362.1848	37807.0762	pt 246	445212.0845	37870.9058
pt 217	445319.5221	37817.6992	pt 247	445167.3326	37886.5652
pt 218	445277.9587	37829.0045	pt 248	445139.5569	37896.75
pt 219	445235.7446	37841.0809	pt 249	445112.8122	37906.7216
pt 220	445205.3643	37849.9493	pt 250	445086.5291	37917.0883
pt 221	445159.9122	37865.8538	pt 251	445049.3318	37931.335
pt 222	445131.9271	37876.1154	pt 252	445010.1758	37948.5913
pt 223	445104.9325	37886.1801	pt 253	444958.2803	37972.9672
pt 224	445078.5585	37896.5827	pt 254	444905.7615	37997.9519
pt 225	445040.9563	37910.9844	pt 255	444796.318	38048.3806
pt 226	445001.0618	37928.5662	pt 256	444696.8829	38099.8565

pt 227	444948.8781	37953.0775	pt 257	444623.1149	38138.0126
pt 228	444896.4323	37978.0274	pt 258	444567.0597	38166.0404
pt 229	444786.6525	38028.6111	pt 259	444503.302	38196.6442
pt 230	444686.7687	38080.3193	pt 260	444434.5481	38227.2017
pt 231	444613.1414	38118.4026	pt 261	444292.1687	38290.7644
pt 232	444557.3797	38146.2837	pt 262	444136.3138	38357.5601
pt 233	444494.0724	38176.6713	pt 263	444062.4886	38392.2765
pt 234	444425.5964	38207.1053	pt 264	443951.6373	38445.3651
pt 235	444283.3508	38270.6082	pt 265	443892.8935	38472.7455
pt 236	444127.2969	38337.4892	pt 266	443856.6093	38488.8933
pt 237	444053.0562	38372.401	pt 267	443822.599	38502.3328
pt 238	443942.2386	38425.4734	pt 268	443787.8311	38515.3734
pt 239	443883.7732	38452.7241	pt 269	443741.8543	38531.6998
pt 240	443823.2741	38477.8461	pt 270	443737.4533	38533.2626
pt 241	445419.4523	37813.8066	pt 271	443706.2218	38543.1804
pt 242	445367.8254	37828.3435	pt 272	443670.3775	38553.5923
pt 243	445325.0676	37838.9901	pt 273	443637.0568	38562.3543
pt 244	445283.8715	37850.1955			

Building Line Points to Peg along Kisozi-Kitemu Road & Naggalabi Spar					
Points	**X**	**Y**	**Points**	**X**	**Y**
Pt 1	441183.8097	29549.2225	Pt 121	442388.6198	29127.4296
Pt 2	441181.3056	29577.1999	Pt 122	442307.0939	29163.248
Pt 3	441181.0036	29600.9592	Pt 123	442286.4074	29170.3595
Pt 4	441180.9831	29601.6875	Pt 124	442259.3276	29174.1948
Pt 5	441179.9843	29612.2744	Pt 125	442179.5875	29177.1265
Pt 6	441176.9102	29646.6731	Pt 126	442138.9409	29180.6488
Pt 7	441174.0049	29681.0852	Pt 127	442117.2346	29184.3972
Pt 8	441171.3521	29715.5243	Pt 128	442103.6831	29189.375
Pt 9	441167.1784	29771.0628	Pt 129	442071.1532	29202.2193
Pt 10	441162.3003	29794.8301	Pt 130	442037.643	29209.695
Pt 11	441161.4109	29805.6034	Pt 131	441998.5904	29210.6475
Pt 12	441161.4031	29806.5388	Pt 132	441988.7259	29205.5266
Pt 13	441162.6934	29830.7682	Pt 133	443073.7384	28884.3695
Pt 14	441160.4401	29856.0291	Pt 134	443064.8409	28909.241
Pt 15	441155.3625	29895.7537	Pt 135	443060.181	28917.9885
Pt 16	441149.202	29932.1336	Pt 136	443047.6683	28932.9865
Pt 17	441146.7166	29940.5146	Pt 137	443041.0597	28936.3842
Pt 18	441141.6403	29952.6102	Pt 138	443025.5299	28936.3842
Pt 19	441141.0776	29953.6144	Pt 139	442998.4293	28941.1886
Pt 20	441124.2885	29979.8315	Pt 140	442954.8501	28941.3886

Pt 21	441111.7153	30000.0906	Pt 141	442943.123	28944.6958
Pt 22	441111.4908	30000.4354	Pt 142	442900.3296	28966.8176
Pt 23	441099.7142	30021.853	Pt 143	442887.1283	28969.0677
Pt 24	441094.7318	30027.9205	Pt 144	442843.2314	28966.7394
Pt 25	441028.308	30092.9696	Pt 145	442808.1853	28969.5666
Pt 26	441019.1658	30101.6543	Pt 146	442772.4178	28978.0681
Pt 27	441018.825	30101.9653	Pt 147	442752.4602	28985.6078
Pt 28	441001.43	30116.9526	Pt 148	442668.7951	29022.0958
Pt 29	440980.5264	30139.5691	Pt 149	442632.784	29034.8772
Pt 30	440965.0822	30155.4046	Pt 150	442609.3775	29043.1496
Pt 31	440949.196	30177.1294	Pt 151	442583.7053	29049.1453
Pt 32	440937.1595	30197.7477	Pt 152	442548.7224	29062.5057
Pt 33	440936.9163	30198.1493	Pt 153	442519.2752	29081.3396
Pt 34	441186.4476	29525.6285	Pt 154	442494.9994	29093.3914
Pt 35	441189.2896	29505.884	Pt 155	442395.5439	29141.8383
Pt 36	441193.062	29484.8623	Pt 156	442310.1097	29178.6051
Pt 37	441197.8287	29460.3332	Pt 157	442279.8854	29189.5412
Pt 38	441203.1698	29447.1328	Pt 158	442224.2169	29190.4937
Pt 39	441206.6832	29437.0877	Pt 159	442191.2921	29191.6716
Pt 40	441215.5431	29414.8201	Pt 160	442134.6182	29196.7516
Pt 41	441220.6868	29403.632	Pt 161	442113.2157	29202.2159
Pt 42	441229.9244	29385.9737	Pt 162	442070.3672	29219.2791
Pt 43	441257.9712	29336.8409	Pt 163	442058.1697	29222.2732
Pt 44	441270.9963	29316.8708	Pt 164	442039.525	29224.8398
Pt 45	441286.485	29292.8386	Pt 165	442008.9799	29226.8956
Pt 46	441299.1017	29273.2078	Pt166	441127.6298	29919.8644
Pt 47	441301.8247	29268.8226	Pt167	441133.5184	29882.2993
Pt 48	441305.6897	29262.6527	Pt168	441136.95	29852.7828
Pt 49	441310.6956	29253.973	Pt169	441138.7931	29833.7525
Pt 50	441316.3548	29244.186	Pt170	441143.6296	29766.7017
Pt 51	441327.0192	29224.2867	Pt171	441143.6988	29741.6192
Pt 52	441347.3865	29186.7132	Pt172	441145.7864	29713.6107
Pt 53	441363.1723	29161.0582	Pt173	441148.2387	29682.1961
Pt 54	441374.6032	29139.1013	Pt174	441153.7615	29618.2794
Pt 55	441410.5322	29078.9666	Pt175	441158.5148	29595.3828
Pt 56	441435.8574	29035.9176	Pt176	441162.042	29549.8103
Pt 57	441459.0097	28996.6796	Pt177	441166.5123	29505.6551
Pt 58	441476.2353	28972.5633	Pt178	441171.3713	29480.9648
Pt 59	441521.7442	28891.5152	Pt179	441181.0325	29444.1697
Pt 60	441543.6403	28856.7226	Pt180	441187.0649	29419.5515
Pt 61	441555.1585	28841.2977	Pt181	441215.3751	29365.6883

Pt 62	441589.3759	28807.5392	Pt182	441228.7434	29338.4044
Pt 63	441614.4505	28791.0873	Pt183	441289.4806	29241.8487
Pt 64	441629.2379	28782.4824	Pt184	441325.8736	29175.2744
Pt 65	441659.6817	28767.0239	Pt185	441345.1647	29145.4475
Pt 66	441699.2489	28750.9925	Pt186	441345.3142	29145.2246
Pt 67	440579.2486	30500.3913	Pt187	441355.6364	29128.2038
Pt 68	440604.6511	30522.6068	Pt188	441355.7919	29127.9338
Pt 69	440618.4438	30538.1557	Pt189	441382.9145	29080.4754
Pt 70	440620.9032	30541.2594	Pt190	441383.3061	29079.8751
Pt 71	440627.3033	30535.6525	Pt191	441397.0296	29060.4397
Pt 72	440634.2738	30529.6678	Pt192	441397.3336	29059.9737
Pt 73	440655.9368	30512.5862	Pt193	441407.7763	29042.3153
Pt 74	440678.0779	30495.728	Pt194	441418.4775	29020.3055
Pt 75	440700.645	30477.8307	Pt195	441429.3943	29001.9864
Pt 76	440720.5055	30461.4351	Pt196	441443.6242	28983.8668
Pt 77	440737.9178	30444.3272	Pt197	441444.1691	28983.0729
Pt 78	440765.1832	30422.647	Pt198	441454.1252	28965.9723
Pt 79	440783.6294	30402.725	Pt 199	441463.8045	28942.7629
Pt 80	440792.2377	30392.1922	Pt 200	441473.4313	28925.7144
Pt 81	440808.1131	30370.1142	Pt 201	441499.8599	28878.2225
Pt 82	440808.4203	30369.6181	Pt 202	441524.8915	28840.4829
Pt 83	440837.6479	30323.0279	Pt 203	441537.1944	28824.4618
Pt 84	440861.5899	30281.0208	Pt 204	441562.1283	28797.9374
Pt 85	440861.6326	30280.9775	Pt 205	441576.6863	28785.9901
Pt 86	440879.0594	30250.9863	Pt 206	441616.7972	28759.2142
Pt 87	440879.2138	30250.6779	Pt 207	441657.1696	28740.1012
Pt 88	440899.9055	30209.7791	Pt 208	441690.7316	28726.8597
Pt 89	440927.4377	30166.8746	Pt 209	441728.9126	28714.2025
Pt 90	440927.5591	30166.7279	Pt 210	441780.8139	28700.8996
Pt 91	440943.6253	30146.9503	Pt 211	441808.6106	28695.4181
Pt 92	440978.4306	30108.0823	Pt 212	441846.2185	28685.2475
Pt 93	441056.4832	30031.5526	Pt 213	441881.1912	28672.0024
Pt 94	441076.0641	30010.4123	Pt 214	441930.6558	28646.9066
Pt 95	441087.5183	29995.6212	Pt 215	441951.3338	28633.8518
Pt 96	441101.4846	29973.487	Pt 216	441993.8875	28602.0478
Pt 97	441110.0911	29958.3206	Pt 217	442025.2851	28577.0293
Pt 98	441122.3599	29938.0501	Pt 218	442102.194	28513.0398
Pt 99	441124.9952	29930.9481	Pt 219	442137.0614	28483.3199
Pt 100	443058.4014	28879.7128	Pt 220	442224.0606	28399.0402
Pt 101	443048.6443	28906.3162	Pt 221	442258.0225	28361.1333
Pt 102	443039.7878	28918.6888	Pt 222	442281.3615	28332.2869

Pt 103	443036.5519	28921.0317	Pt 223	442312.5348	28289.925
Pt 104	443017.0672	28924.4698	Pt 224	442352.4135	28213.8273
Pt 105	442998.436	28925.4311	Pt 225	442368.6875	28172.5705
Pt 106	442959.9789	28925.3017	Pt 226	442368.809	28172.1547
Pt 107	442942.9736	28927.1996	Pt 227	442375.6994	28137.2392
Pt 108	442902.2842	28948.9683	Pt 228	442374.9869	28087.3858
Pt 109	442895.9156	28951.4267	Pt 229	442374.1902	28052.8078
Pt 110	442879.15	28952.8876	Pt 230	442375.1947	28028.7449
Pt 111	442839.2324	28950.1333	Pt 231	442375.2075	28028.2948
Pt 112	442822.5556	28951.4837	Pt 232	441810.7156	28719.6032
Pt 113	442778.8291	28958.8995	Pt 233	441832.3178	28711.0736
Pt 114	442746.0872	28970.9441	Pt 234	441853.5921	28705.2875
Pt 115	442659.8479	29007.9663	Pt 235	441878.0419	28700.125
Pt 116	442608.2529	29025.8698	Pt 236	441915.9555	28683.6697
Pt 117	442558.4269	29040.1717	Pt 237	441969.3656	28652.5641
Pt 118	442511.5666	29067.2766	Pt 238	442008.3198	28622.7642
Pt 119	442488.4311	29078.8348	Pt 239	442041.6056	28596.7857
Pt 120	442444.7634	29098.5207	Pt 240	442072.7798	28570.2585
Pt 241	442129.9689	28522.8637	Pt 341	441530.3507	29399.7041
Pt 242	442176.7275	28481.9232	Pt 342	441964.0146	29187.5342
Pt 243	442243.6888	28415.5532	Pt 343	441957.1244	29179.983
Pt 244	442252.3712	28406.2433	Pt 344	441952.0111	29171.0535
Pt 245	442285.7238	28367.8692	Pt 345	441938.7805	29144.236
Pt 246	442322.5505	28320.3599	Pt 346	441926.5742	29124.0444
Pt 247	442337.7329	28297.9415	Pt 347	441906.7585	29098.9947
Pt 248	442344.5225	28286.0243	Pt 348	441893.2345	29086.2593
Pt 249	442381.7188	28210.0898	Pt 349	441884.887	29081.6911
Pt 250	442396.9366	28168.6952	Pt 350	441872.4893	29085.067
Pt 251	442400.6141	28145.2861	Pt 351	441867.8159	29088.3221
Pt 252	442401.8393	28127.6892	Pt 352	441860.8367	29097.9869
Pt 253	442400.1032	28071.089	Pt 353	441849.1189	29120.3712
Pt 254	442397.8843	27982.4701	Pt 354	441844.9153	29148.7665
Pt 255	442395.8784	27931.4617	Pt 355	441835.5024	29179.1473
Pt 256	442395.5951	27894.0953	Pt 356	441801.9574	29232.9494
Pt 257	442395.2266	27833.9983	Pt 357	441797.2559	29238.9445
Pt 258	442395.2875	27792.9754	Pt 358	441786.4263	29249.5338
Pt 259	442395.198	27791.7758	Pt 359	441763.3297	29263.348
Pt 260	442390.5707	27767.7853	Pt 360	441736.092	29276.9325
Pt 261	442389.996	27746.823	Pt 361	441730.3389	29278.7959
Pt 262	442394.7449	27692.1654	Pt 362	441647.76	29301.4001

Pt 263	442407.8902	27645.8403	Pt 363	441630.0306	29308.4068
Pt 264	442429.0666	27605.7309	Pt 364	441602.168	29325.669
Pt 265	442458.4992	27514.7921	Pt 365	441549.9329	29366.3842
Pt 266	442452.5558	27528.9032	Pt 366	441521.7519	29386.2145
Pt 267	442448.6391	27538.8911	Pt 367	441468.8723	29414.1416
Pt 268	442443.2638	27555.5322	Pt 368	441421.3531	29436.5783
Pt 269	442441.5983	27563.1475	Pt 369	441376.6834	29457.077
Pt 270	442447.0907	27576.3406	Pt 370	441353.792	29463.8966
Pt 271	442461.7291	27583.321	Pt 371	441245.1309	29485.4137
Pt 272	442492.5632	27595.6787	Pt 372	441221.85	29495.0258
Pt 273	442502.0455	27599.1003	Pt 373	441211.89	29500.9338
Pt 274	442516.6688	27602.9867	Pt 374	441192.1065	29516.7644
Pt 275	442568.2263	27609.1709	Pt 314	441940.5013	29177.6897
Pt 276	442608.4375	27613.1214	Pt 315	441937.425	29177.6897
Pt 277	442635.2681	27615.0348	Pt 316	441925.6552	29152.6613
Pt 278	442693.4176	27617.4265	Pt 317	441912.0291	29129.9071
Pt 279	442735.2615	27620.2906	Pt 318	441900.1493	29112.9208
Pt 280	442383.4902	27534.4384	Pt 319	441885.9058	29100.068
Pt 281	442392.9053	27540.3191	Pt 320	441879.5138	29100.0204
Pt 282	442412.0717	27551.3453	Pt 321	441869.2989	29112.8798
Pt 283	442420.281	27556.4995	Pt 322	441864.1873	29123.8029
Pt 284	442421.9214	27557.5521	Pt 323	441861.1744	29146.3299
Pt 285	442426.4692	27555.4316	Pt 324	441854.6765	29171.2012
Pt 286	442427.5546	27550.7759	Pt 325	441854.5109	29171.7579
Pt 287	442433.2326	27533.287	Pt 326	441847.5443	29188.9087
Pt 288	442437.4308	27522.546	Pt 327	441830.2207	29216.3646
Pt 289	442443.3693	27508.4439	Pt 328	441817.0048	29237.3179
Pt 290	440922.7429	30221.3855	Pt 329	441816.7879	29247.6072
Pt 291	440870.2666	30221.3855	Pt 330	441809.5589	29247.6072
Pt 292	440830.3223	30379.5184	Pt 331	441804.4399	29253.3736
Pt 293	440814.6481	30399.0117	Pt 332	441792.8613	29263.5396
Pt 294	440795.8843	30422.1817	Pt 333	441763.7203	29279.036
Pt 295	440780.7018	30438.2999	Pt 334	441763.5186	29279.1382
Pt 296	440760.234	30459.0397	Pt 335	441744.989	29288.3183
Pt 297	440715.535	30496.1555	Pt 336	441721.285	29296.7915
Pt 298	440691.8499	30514.9025	Pt 337	441652.2678	29316.754
Pt 299	440671.5349	30527.7388	Pt 338	441638.712	29321.9295
Pt 300	440671.0827	30528.0127	Pt 339	441616.188	29335.5855
Pt 301	440669.3995	30529.2681	Pt 340	441548.5228	29386.8908
Pt 302	440654.8229	30540.5096	Pt 341	441530.3507	29399.7041
Pt 303	440641.3933	30551.7743	Pt 342	441964.0146	29187.5342

Pt 304	440634.2287	30558.0509	Pt 343	441957.1244	29179.983
Pt 305	440639.8652	30565.1551	Pt 344	441952.0111	29171.0535
Pt 306	440649.3366	30578.0802	Pt 345	441938.7805	29144.236
Pt 307	440659.6456	30595.9138	Pt 346	441926.5742	29124.0444
Pt 308	440668.9121	30612.115	Pt 347	441906.7585	29098.9947
Pt 309	441994.8794	29225.794	Pt 348	441893.2345	29086.2593
Pt 310	441988.6143	29223.6189	Pt 349	441884.887	29081.6911
Pt 311	441983.9139	29221.3575	Pt 350	441872.4893	29085.067
Pt 312	441958.6996	29203.6638	Pt 351	441867.8159	29088.3221
Pt 313	441948.7561	29194.1488	Pt 352	441860.8367	29097.9869
Pt 314	441940.5013	29177.6897	Pt 353	441849.1189	29120.3712
Pt 315	441937.425	29177.6897	Pt 354	441844.9153	29148.7665
Pt 316	441925.6552	29152.6613	Pt 355	441835.5024	29179.1473
Pt 317	441912.0291	29129.9071	Pt 356	441801.9574	29232.9494
Pt 318	441900.1493	29112.9208	Pt 357	441797.2559	29238.9445
Pt 319	441885.9058	29100.068	Pt 358	441786.4263	29249.5338
Pt 320	441879.5138	29100.0204	Pt 359	441763.3297	29263.348
Pt 321	441869.2989	29112.8798	Pt 360	441736.092	29276.9325
Pt 322	441864.1873	29123.8029	Pt 361	441730.3389	29278.7959
Pt 323	441861.1744	29146.3299	Pt 362	441647.76	29301.4001
Pt 324	441854.6765	29171.2012	Pt 363	441630.0306	29308.4068
Pt 325	441854.5109	29171.7579	Pt 364	441602.168	29325.669
Pt 326	441847.5443	29188.9087	Pt 365	441549.9329	29366.3842
Pt 327	441830.2207	29216.3646	Pt 366	441521.7519	29386.2145
Pt 328	441817.0048	29237.3179	Pt 367	441468.8723	29414.1416
Pt 329	441816.7879	29247.6072	Pt 368	441421.3531	29436.5783
Pt 330	441809.5589	29247.6072	Pt 369	441376.6834	29457.077
Pt 331	441804.4399	29253.3736	Pt 370	441353.792	29463.8966
Pt 332	441792.8613	29263.5396	Pt 371	441245.1309	29485.4137
Pt 333	441763.7203	29279.036	Pt 372	441221.85	29495.0258
Pt 334	441763.5186	29279.1382	Pt 373	441211.89	29500.9338
Pt 335	441744.989	29288.3183	Pt 374	441192.1065	29516.7644
Pt 336	441721.285	29296.7915			
Pt 337	441652.2678	29316.754			
Pt 338	441638.712	29321.9295			
Pt 339	441616.188	29335.5855			
Pt 340	441548.5228	29386.8908			