

[illegible]

[illegible]

Annexure D **Rising Main Drawings**

[illegible]

1. DIMENSIONS FOR EQUIPMENT WERE OBTAINED FROM CATALOGUES AND MAY BE INCORRECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL AFFECTED PIPE ITEMS PRIOR TO ORDERING ANY ITEMS.

2. PLYST SHEETING 3/8" MINOR ENDOSE 0.75 C. 9/16 IN 3/8" X 1/2" TYPE 2 TO BE PLACED ON JOISTS BEFORE PLACING ROOF SLAB IN PLACE AND TO BE PLACED ON JOISTS AND EXTERIOR WALLS WITH SPACED 48" ON JOIST.
3. CONCRETE JOISTS FOR THE DIFFERENT ELEMENTS SHALL BE AS FOLLOWS:
 - 3.1. BEAMING - 15 MPa 13mm
 - 3.2. FLOOR - 25 MPa 13mm
 - 3.3. WALLS - 25 MPa 13mm
 - 3.4. ROOF SLAB - 25 MPa 13mm
4. CHAMFER WALLS TO AVOID SHARP EDGES FINISH INTERNALLY.
5. ALL PLY FORMED BEAMS INDICATED ON THE PARTS LIST.
6. ALL FLOORS AND CHAMBERS TO BE DRILLED TO TAKE 8 Ø10
7. KUNGBERG CLIMATIC TYPE GASKET OR EQUIVALENT APPROVED TO BE USED.
8. ALL JOISTS AND RAILS SHALL BE IN STAINLESS STEEL WITH NICKLE CHROME COATING.
9. ALL JOIST AND RAIL COATING TO BE GALVANIZED WITH 3 LAYERS Ø805 TYPE.
10. EXTERNAL BEAMS, TERES 4 FINGER LAMPS SHALL BE COATED WITH 3 COATS CARBOLINE 90, MINIMUM TO BE 1/16 THE THICKNESS OF 250 MINOR STEEL (NO GALVANIZED PLY SHALL BE ALLOWED).
11. ALL STEEL PLY SECTION SHALL BE GALVANIZED.
12. REFER TO STRUCTURAL DRAWINGS FOR FEMOING DETAILS AND BEAMS SCHEDULES.
13. BEAMS SCHEDULES SHALL BE SUBMITTED TO THE ENGINEER ON PART PERMISSION DRAWING FOR VERIFICATION AND SUBMISSION TO THE GEORGE MUNICIPALITY. THEREAFTER ALL BEAMS FITTINGS SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF INSTALLATION AND FITTING.
14. REFER ANY DISCREPANCIES TO THE ENGINEER.



BASE FIXING DETAIL



SECTION B-B

REVISIONS		DRAWN		CHECKED		DESIGNED		MATERIAL		SIGNED		SMEC SOUTH AFRICA		SIGNED		THEMBALETHU SEWER PUMPSTATION GEORGE		UPGRADE OF	
NO.	DATE	FOR TENDER		TC		A1		T1		T2		T3		T4		T5		T6	
T00	17-10-2023	FOR TENDER		TC		A1		T1		T2		T3		T4		T5		T6	
SMEC SOUTH AFRICA Member of the Sutherland Group PO Box 198822 George 6520 Tel: 027 462 2722 Fax: 027 462 2723 Email: southafrica@smec.com www.southafrica.smeccorp.com SMEC 1800 400 8822 Tel: 027 462 2722 Fax: 027 462 2723 Email: info@smec.com www.smeccorp.com GEORGE 1800 400 8822 Tel: 027 462 2722 Fax: 027 462 2723 Email: info@smec.com www.smeccorp.com																			
THEMBALETHU SEWER PUMPSTATION GEORGE UPGRADE OF BRIDGE DETAILS																			
PROJECT DRAWING NUMBER C1024 DATE 01/01/2023																			
PROJECT NAME THEMBALETHU SEWER PUMPSTATION GEORGE PROJECT LOCATION THEMBALETHU SEWER PUMPSTATION GEORGE																			
PROJECT NO. 001 PROJECT NO. 001																			

Annexure E **Architectural Finishing Schedule**



SMEC INTERNAL REF. C1924

UPGRADING OF THEMBALETHU No. 6 SEWER PUMP STATION

FINISHES SCHEDULE DOC

Client Reference No. T/ING/010/2020

Prepared for GEORGE MUNICIPALITY

24 October 2023

Document Control

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Project Name	UPGRADING OF THEMBALETHU No. 6 SEWER PUMP STATION
Project Number	C1924
Revision Number	C

Revision History

Revision No.	Date	Prepared By	Reviewed By	Approved for Issue By
A	19/10/2023	Nduduzo Shelembe	Gerhard Linde	Gerhard Linde
B	24/10/2023	Nduduzo Shelembe	Gerhard Linde	Gerhard Linde
C	26/10/2023	Nduduzo Shelembe	Gerhard Linde	Gerhard Linde

Issue Register

Distribution List	Revision No.	Date Issued	Number of Copies
Derek Coetzee	A	20/10/2023	PDF – (electronic)
Derek Coetzee	B	24/10/2023	PDF – (electronic)
Derek Coetzee	C	26/10/2023	PDF – (electronic)

SMEC Company Details

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Email	Gerhard.Linde@smec.com		
Signature			

The information within this document is and shall remain the property of: SMEC South Africa (PTY) Ltd - Bloemfontein

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1 General Notes

- THIS DOCUMENT TO BE READ IN CONJUNCTION WITH:
 - A] The floor plans (reference and details plans)
 - B] Internal elevations and RDS (where applicable)
- PLEASE NOTE: any discrepancies between this schedule, the plans and finishes chart should be reported immediately before proceeding
- NO changes in specifications are allowed. Architect will not give consideration for alternatives to any finishes or items specified without prior written consent by means of a revised Drawing / Schedule or a PAI (Principal Agent Instruction)
- NB: INSTALLATION: all in strict accordance with supplier / manufacturer's specifications
- Refer to typical Architects Details

2 Finishes: General Notes

2.1 Laminate and Vinyl Flooring

- All laminate and vinyl flooring to be installed in strict accordance with manufacturer's specifications and by approved installer, with adequate underlay according as per supplier / manufacturer.
- SUBFLOORS FINISH BEFORE APPLYING VINYL OR LAMINATE FLOORING
 - The subfloor should be in sound condition, and free of any contaminants, like oil, paint, preservative treatments or other forms of marking
 - Class 1 steel floated finish on screed: max of 3mm variance
- All to be installed in strict accordance with manufacturer's specifications and detail and to be done by specialist installer.

2.2 Tile Flooring

- VERY IMPORTANT: height difference between floor finishes to be made up by screed where polished concrete is not specified
- NB: Ceramic / Porcelain wall tiles and stone worktops to be drilled not spilt to accommodate mounting of taps / fixtures if required.
- Approved "SCHLUTER" or similar approved edge trims to be used between different floor finishes – Finish Aluminium, unless otherwise specified
- Specification for expansion joints in floors to be installed at junction between slabs as per Engineers' detail and manufacturer specifications. Top of floor finish to be flush with top of movement joint. Colour of rubber insert – grey.
- Soft joints:
 - Tiles shall have a soft joint against any fixed protrusions such as a wall, column etc. A cleaned out open joint covered by the skirting will also suffice.
 - Soft joint positions need to be identified in advance and the tile adhesive while still wet needs to be fully scratched out down to screed level and thereafter thoroughly cleaned prior to installing the soft joint material.
 - Soft joints shall be provided at the next tile joint above termination of a U/F heating matt
 - Soft joints shall in general be provided at 3m x 3m maximum
 - In corridors soft joints shall be provided at a maximum ratio of 1:2 e.g. in a 0.9m wide corridor soft joints shall be provided at maximum 1.8m c/c
 - Tile joints in general shall be no less than 3mm wide
 - Soft joints shall be filled by a matching colour of an approved flexible sealant strictly compliant to the manufacturer's specification
- Any excessive tile adhesive pushing/squeezing into any joints shall be removed from the joint while still wet prior to installing the jointing grout. Grouting should not commence 1-3 days after completion of laying tiles.
- The preferred system would be initial Key-cote slurry with the tile adhesive being Gold-flex due to the slab being a suspended slab while the tile grout other than the soft joints should be an approved wall and floor grout. Note that the adhesive must be applied while the Key-cote is still wet.

2.3 Polished Concrete Flooring

CAST IN SITU CONCRETE FOR POLISHED CONCRETE FINISH:

- Concrete floors to be cast in strict accordance with the Engineers' details and specifications – in preparation of a polished concrete finish.
- Concrete floors to be cast to a level 1 finish
- It is the General Contractors (GC) responsibility to ensure all trades are aware of and take proper care for and protection of concrete surface during construction to ensure the best quality finish product.
- Concrete surface must be fully and uniformly protected for 28 days after pour.
- No satisfactory chemical or cleaning procedure is available to remove petroleum based or other deep stains from within the concrete surface (including many oils, fuels, paint, products, glues, or other penetrating stains). Prevention is therefore essential.
- The General Contractor to provide for and ensure maintenance of protection system to protect concrete surfaces during construction.

2.4 Waterproofing

- All waterproofing to be done by a waterproofing specialist and in strict accordance with Manufacturer's specifications.
- These design, supply and installation sub-contractors must provide the client with a guarantee for product and installation.
- To be read in conjunction with issued drawings

3 Brick Specifications:

SPEC:	NO:	IMAGE:	SPECIFICATION:
B	-01		COROBRIK: EXTERNAL BRICK WALL FINISH: Facebrick with raked joints "OLD CAPE BLEND SMOOTH FBA" - Face Brick Standard TEXTURE: Smooth - A smooth, slightly grainy face finish. SPECIFICATIONS: 222 x 106 x 73mm OR SIMILAR APPROVED

4 Flooring Specifications:

SPEC:	NO:	LOCATION / IMAGE:	SPECIFICATION:
FF	-01	INTERIOR: - Bathrooms - Office 	FLOOR TILE: Interior SPEC: FLORIM BETON ONE ASH Rectified Rectified Full Bodied Porcelain Tile. 9mm thick tile has a poured cement look and soft grip finish. It is ideal for high traffic indoor and outdoor floor and wall surfaces, e.g. airports, malls, grocery stores and hospitals. COLOUR: "BETON GREIGE" SIZE: 600x1200x9mm FINISH/TEXTURE: Soft Grip (R 10B) PRODUCT CODE: SKU: 004-763774 SUPPLIER: STILES Cape Town +27 (021) 510 8310 and websales@stiles.co.za 37 Paarden Eiland Road, Paarden Eiland, Cape Town ADHESIVE: Refer to TAL tile adhesive general specifications for fixing porcelain tiles GROUTING: 3mm wide TAL Wall & Floor Grout – "Grey" colour to be approved SKIRTING: 100mm Tiled skirting with square Aluminium tile edge trim to top and sides – Schlüter or similar approved
FF	-05	INTERIOR: Bathrooms 	WALK-OFF MAT: SPEC: DM Aluminium Entrance Matting for heavy duty use: Berber point COLOUR: Grey SIZE: 2000 x 1500 (refer to flooring layout) SKIRTING: N/A SUPPLIER: COBA Africa: +27 21 557 1204 (CPT) sales@cobafrica.com and www.matting.co.za
FF	-03		PAVING: To Landscape Architects' specifications and details

FF	-04	GENERAL SPEC: 	SCHLUTER STRIP - TRANSITION: LOCATION: On threshold between different floor finishes – cross-over underneath door leave SPEC: Schluter®-JOLLY. Finishing and edge-protection profile for outside wall corners and edges. A finishing and edge-protection profile for the outside corners and other tile edges in wall applications. FINISH: Brushed Stainless-steel SIZE: Dependent on tile thickness
FF	-04	GENERAL SPEC: EPOXY FLOOR FINISH • Pump Station	LOCATION: Concrete Floor " Sikafloor®-264 ZA" Sikafloor®-264 ZA is a 2-part epoxy coloured resin that can provide a hard wearing, seamless, low maintenance, smooth gloss finish or slip resistant finish when broadcast with different aggregate grades. Varying thickness's can be achieved from 0.6–3.0 mm. For medium - heavy wear conditions. Internal use. SUPPLIER: Sika: +27 21 555 0755 (CPT) wcape@za.sika.com and www.sika.com OR SIMILAR APPROVED

5 Wall finishes Specifications:

SPEC:	NO:	LOCATION / IMAGE:	SPECIFICATION:
WF-T	-01	INTERIOR: ABLUTIONS: WC/Showers GUARD HOUSE: Kitchenette 	WALL TILE: SPEC: MONOCOLOUR BLANCO LISO Matt 75x300mm Glazed Ceramic Tile COLOUR: "White" FINISH/TEXTURE: Matt SIZE: 75x300mm x7,8mm PRODUCT CODE: SKU: 145-PT05598 SUPPLIER: STILES Cape Town +27 (021) 510 8310 and websales@stiles.co.za 37 Paarden Eiland Road, Paarden Eiland, Cape Town ADHESIVE: Refer to TAL tile adhesive general specifications for fixing ceramic tiles GROUTING: 3mm wide TAL Wall & Floor Grout – "White" colour to be approved Range/Collection: Monocolour Tile type/Made From: Ceramic
WF-P	-02	GENERAL SPEC:	PAINT: WALLS INTERIOR on Smooth Plastered walls. SPEC: PLASCON DOUBLE VELVET: low odour premium quality interior velvet sheen wall coating that is highly washable and stain resistant. A minimum of 2 coats on top of a primed surface using PLASCON PLASTER PRIMER (UC 56) For use on prepared surfaces and applied in strict accordance with manufacturer's specifications. COLOUR: "White" - A minimum of 5 samples to be applied for approval
WF-P	-03	GENERAL SPEC:	PAINT: CEILINGS SPEC: PLASCON POLVIN: A superior water-based quality acrylic emulsion paint. A minimum of 2 coats. For use on prepared surfaces and applied in strict accordance with manufacturer's specifications on Skimmed ceilings only – All concrete soffits to be kept natural and only rubbed (patching only on approval of Architect) COLOUR: "White"

WF	-04	GENERAL SPEC: EXTERIOR: Off-shutter concrete and Face Brick walls	SEALANT: SIKAGARD®-850 AG EXTERIOR: on Off-Shutter Concrete Columns and Concrete Reveals and Face Brick walls Permanent clear anti-graffiti and anti-flyposter coating. Sikagard®-850 AG is a 1- part, polyorganosiloxane-based, permanent anti-graffiti and anti-flyposter clear coating. It protects concrete, wood and masonry substrates from rain, sun and temperature extremes.
WF	-05	GENERAL SPEC: 	SCHLUTER STRIP - GENERAL: LOCATION: General use Schluter®-JOLLY. Finishing and edge-protection profile for outside wall corners and edges. A finishing and edge-protection profile for the outside corners and other tile edges in wall applications. FINISH: Brushed Stainless-steel SIZE: Dependent on tile thickness
WF	-06	GENERAL SPEC: 	SCHLUTER STRIP - CORNER: LOCATION: Public ablution only – limited use on exposed Tiled wall corners. SPEC: Schluter®-ECK-E. Heavy duty edge-protection profile for outside corners. Schluter®-ECK-E is a stainless-steel edging profile for outside corners of tiled walls that offers excellent edge protection against mechanical stresses in commercial and industrial applications. FINISH: Brushed Stainless-steel SIZE: 37mm

6 General Specifications:

SPEC:	NO:	LOCATION / IMAGE:	SPECIFICATION:
GS	-01	ROOFING:	SPEC: Roofing shall be KLIP-TITE™ profile roll-formed in continuous lengths from certified COLORBOND® ULTRA® ZINCALUME® AZ200 coated steel G550 0.53mm, with a Clean COLORBOND™ Ultra® finish to One Side and standard backing coat, Shadow Grey to other side and fixed to steel purlins using KL700 Plus clips and class 5 fasteners, in strict accordance with manufacturer's specifications by a GRS Approved Contractor. FLASHINGS: All flashings and trims (incl. head-and sidewall flashing, Gutters and External trims) shall be manufactured from COLORBOND® ULTRA® and fixed by way of S10 brackets or, Sliding brackets at apex where roof sheets are 30m or longer, all in strict accordance with manufacturer's specification using the appropriate tools. COLOUR: "Charcoal" – sample to be approved SUPPLIER: Certified approved supplier / installer only. A written and approved five-year guarantee of watertightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions. 011 898-2900
GS	-02	INSULATION: (ROOFING)	SPEC: ALUTHERM (AF) 135mm Fibre Glass Roof Insulation installed in strict accordance with manufacturer specifications. ALUTHERM® is a flexible, heavy duty bulk insulation material consisting of 135mm Fibreglass blanket laminated to a 4mm white bubble layer on one side and a reflective foil layer on the other side, with excellent fire-retardant properties. R-VALUE: min 3,35 to comply with SANS 10400 XA SUPPLIER: Certified approved supplier / installer only
GS	-03	CEILING: REV C - Guard House - Stoep - Upper Ground Floor Stoep	CEILINGS: 6,4mm (note: not bulkheads) SPEC: Lafarge Gypsum PLASTERBOARD 9.5mm with tapered edges; tapped, skimmed and painted. SIZE: n/a – refer to ceiling layout COLOUR: painted "White" (refer to spec elsewhere) INSTALLATION: DONN T37K galvanised steel capped Tee flush plastered ceiling suspension system with dry wall screws spaced at 150mm c/c, including galvanised main tees at 1200mm c/c and cross tees at 300mm c/c. All suspended on 25 x 25mm galvanised angles at not exceeding 1200mm c/c. All fixed to concrete slab or roof structure at centres not exceeding 1000mm SUPPLIER: Certified approved supplier / installer only

GS	-04	CEILING-B: REV C • Guard House • Office • Storage • Bathrooms • WC • Upper Ground Floor Passage	DROP-IN ACOUSTIC CEILING PANELS: 600 x 600 SPEC: GYPROC Donn Ceil Gyprex "WHITE" vinyl faced gypsum ceiling tiles: 600x600 x 12,5mm FINISH / PAINT: n/a COLOUR: "White" INSTALLATION: Laid on and including DONN QRC T38V exposed grid system – white powder coated galvanized main-T's, cross-T's, hold-down clips, wedges, etc. all suspended with galvanized hangers at hanger centres not exceeding 1200mm with DONN SM25 recessed wall angle cornice. SUPPLIER: Certified approved supplier / installer only
GS	-08	ALUMINIUM:	REFER TO DOOR AND WINDOW SCHEDULES: COLOUR: "Charcoal/Grey" sample to be approved SUPPLIER: Metal Windows Cape Town: info@metalwindows.co.za Sample to be approved
GS	-09	BURGLAR BARS / SECURITY GATES:	REFER TO GATES SCHEDULES: FINISH / PAINT: PLASCON VELVEGLO For use on prepared surfaces and applied in strict accordance with manufacturer's specifications. COLOUR: "Grey" RAL 7016 - sample to be approved
GS	-10	STRUCTURAL STEEL AND ARCHITECTURAL METALWORK:	REFER TO ENG. AND ARCH. DETAIL DRAWINGS: FINISH / PAINT: PLASCON VELVEGLO For use on prepared surfaces and applied in strict accordance with manufacturer's specifications. COLOUR: "Charcoal/Grey" sample to be approved

7 Waterproofing Specifications:

NOTE: Similar approved product will be considered with written consent from the Architect.

All suppliers and installers to be certified approved applicator of the specified or approved product and be able to provide the Project Manager and client with warranty of the product and the installation.

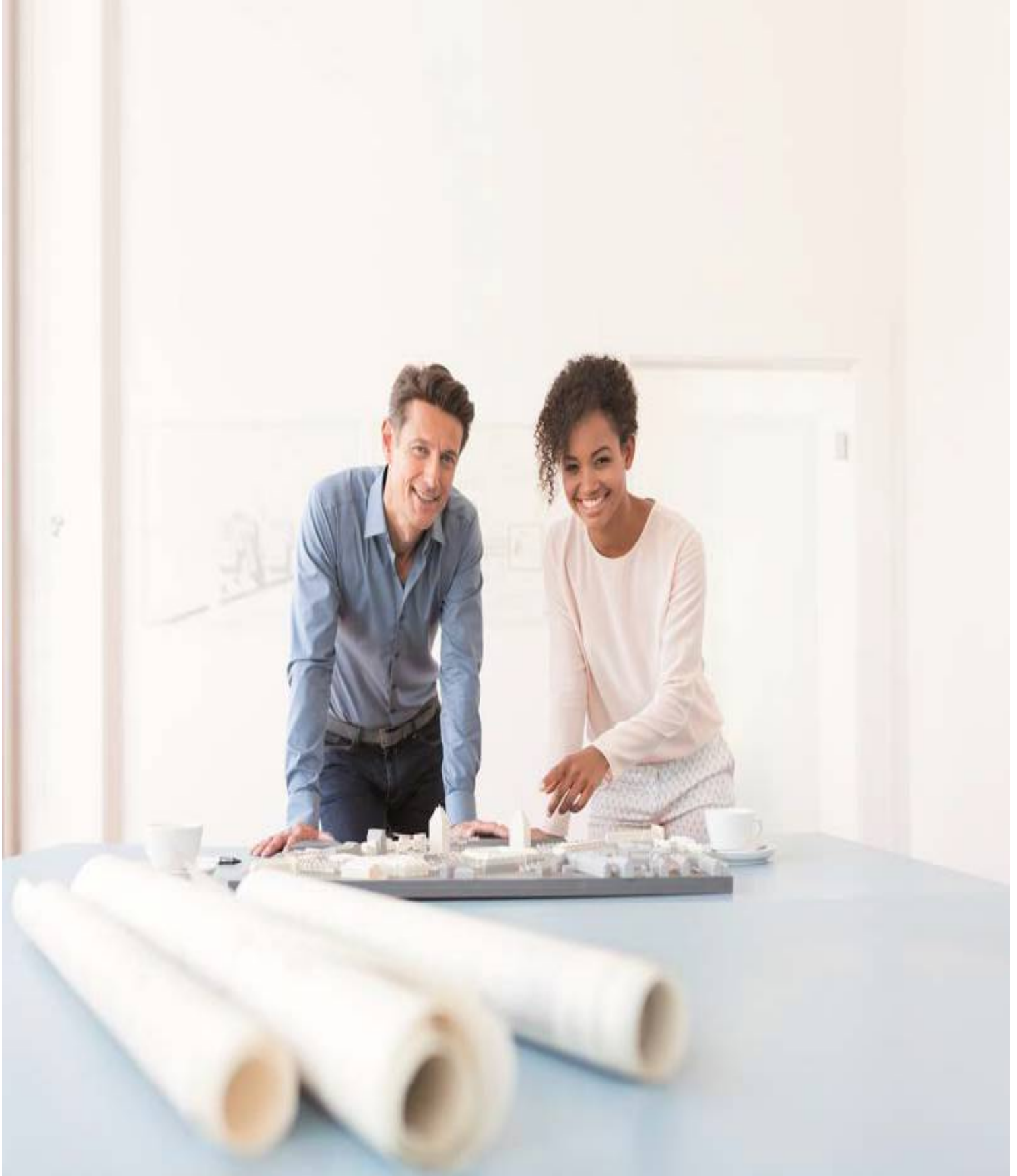
SPEC:	NO:	LOCATION:	SPECIFICATION:
WS	-01	WET WELL: REV C	BIOGENIC COATING: Sika® Permacor®-3326 EG H PRODUCT DESCRIPTION: Sika Permacor-3326 EG H is a low solvent containing 2-pack epoxy coating for steel and concrete. The coating has high physical strength, with good abrasion and impact resistance. Crack bridging capability up to 3 mm (lamine system). COATING SYSTEM: 2 x Sika MonoTop-620 Mortar 1 x Sikagard 177 blinded with quartz sand 0.1 - 0.3 mm 3 x Sika Permacor-3326 EG H SUPPLIER: Sika: +27 21 555 0755 (CPT) wcape@za.sika.com and www.sika.com WEBSITE: https://gbr.sika.com/content/dam/dms/gb01/4/Sika%20Permacor-3326%20EG%20H%20PDS.pdf CONFIRM WITH SPECIALIST OR SIMILAR APPROVED

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Through our specialist expertise, we're challenging boundaries to deliver advanced infrastructure solutions.

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Annexure F **Architectural Ironmongery Schedule**



PROJECT NAME: Thembalethu Pump Station

PROFESSIONAL: SMEC

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

REVISION: v 1

REPORT DATE: 25/10/2023



Project Information

All aspects of this Door Hardware Schedule should be checked and confirmed with all the current documentation available for this project by the hardware distributor prior to the ordering of any hardware.

- For pricing of this door hardware schedule, please contact your regular architectural hardware distributor or contact **dormakaba** for a list of distributors in your area. Alternatively, product and pricing assistance can be obtained via info.za@dormakaba.com
- Door and frame details (including sizes) shown in this door hardware schedule are indicative only and only used as a guide to hardware requirements. All door and frame details should be confirmed from the Architect's most recent documentation.
- If **dormakaba** Automatic doors have been noted in this specification, the full specification, pricing and installation details should be confirmed and priced by **dormakaba**. Please contact your preferred dormakaba consultant for further information.
- All non **dormakaba** hardware specified in this door hardware schedule must be checked with the relevant manufacturer for suitability and availability by the hardware distributor prior to ordering of the hardware.
- The hardware distributor will need to confirm all handing of all products from the latest floor plans prior to the ordering of any hardware. This includes, but is not limited to, all handed locks, furniture, offset pivots, lift-off hinges, etc.
- Where the **dormakaba** ED Series are specified, the provision / installation of fire stopping products or material to penetrations is not allowed for under the **dormakaba** scope of works. This to be carried out by others.
- Panic Bars (where specified) will need to have final sizes confirmed with actual door widths and heights by the hardware distributor prior to ordering.
- Where surface mounted door closers have been scheduled, they should generally be installed to the less visible side of the door. The door closers scheduled require minimum nib room of 60mm when mounted to the pull side of the door.
- Where surface mounted door closers have been scheduled to aluminium or timber glazed doors, a larger top rail (nominal 110mm) should be specified to allow for secure mounting of the door closer. The hardware distributor is to confirm with the door supplier the need for a drop or trim plate.
- Where kickplates have been specified, the builder should organize and allow for the cost of providing final kickplate measurements to the hardware distributor prior to ordering.
- Where door seals have been specified, the hardware distributor will need to confirm the seal sizes and types are compatible with the actual door type, door widths and heights prior to ordering.
- Where seals have been specified to match acoustic requirements, the acoustic consultant is to confirm these seals are suitable to achieve the acoustic ratings required. The door hardware specified may need to be altered if different seals are used.
- Where seals have been specified to smoke doors, the fire / smoke door contractor is to confirm these seals are suitable to comply with the SABS requirements for this project. The door hardware specified may need to be altered if different seals are used.

Project Information

- Where access control and security products have been scheduled, they are only indicatively specified in this door hardware schedule. For full details and specifications refer to the separate Access Control Quotation. The electronic products included in this door hardware schedule should be checked and coordinated with the information shown on the separate Access Control Quotation to ensure adequate power and cabling has been allowed for. The builder is to confirm that the electronic products included in this door hardware schedule are to be part of the hardware distributor's package.
- Refer to individual doors, hardware sets and products for notes that will need to be addressed.

Abbreviations used, finishes and descriptions

CYL	Cylinder
MK	Master Keyed
GMK	Grand Master Keyed
KA	Keyed Alike
KD	Keyed to Differ
BT	Bolt Through
BTB	Back to Back
LH	Left Hand
RH	Right Hand
N/S	Narrow Stile
H/O	Hold Open
D/A	Delayed Action
DD	Double Door
SLD	Sliding Door
EAC	Electronic Access Control
PSS	Polished Stainless Steel
SSS	Satin Stainless Steel
SS	Stainless Steel
GAL	Galvanized
ZP	Zinc Plated
PB	Polished Brass
SB	Satin Brass
PCP	Polished and Chrome Plated
SCP	Satin Chrome Plated
PNP	Polished Nickel Plated
SNP	Satin Nickel Plated
PC	Powder Coated
EP	Electro-plating
PVD	Physical Vapor Disposition

Colouring Legend

	Door / Product has been added to this revision.
	Door / Product has changed since the last revision.
	Door / Product has been removed from this revision.

Control List



PROJECT NAME: Thembaletu Pump Station

REPORT DATE: 25/10/2023

PROFESSIONAL: SMEC

REVISION DATE: 25/10/2023

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

REVISION: v 1

Door Number	Hardware Set	Area	Location	Door Type	Door Material
D01.1	01 - Steel SD	Upper Ground Floor	Pump Station Passage	D01	Steel SD
D01.2	02 - Escape SD	Upper Ground Floor	Pump Station Passage	D01	Steel SD
D01.3	01 - Steel SD	Upper Ground Floor	Pump Station Passage	D01	Steel SD
D01.4	02 - Escape SD	Upper Ground Floor	Pump Station Passage	D01	Steel SD
D04.1	03 - Alu SD	Upper Ground Floor	Gaurd House	D04	Alu SD
D04.2	03 - Alu SD	Upper Ground Floor	WC	D04	Alu SD
D05.1	04 - Female WC	Upper Ground Floor	WC	D05	Timber SD
D05.2	06 - Shower	Upper Ground Floor	Shower	D05	Timber SD
D05.3	06 - Shower	Upper Ground Floor	Shower	D05	Timber SD
D05.4	05 - Male WC	Upper Ground Floor	WC	D05	Timber SD
D07	07 - Office	Upper Ground Floor	Office	D07	Timber SD

HARDWARE PER SET



PROJECT NAME: Thembaletu Pump Station

REPORT DATE: 25/10/2023

PROFESSIONAL: SMEC

REVISION DATE: 25/10/2023

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

REVISION: v 1

HARDWARE FOR SET:		01 - Steel SD			
Hardware Set Quantity :		1			
Notes					
Doors (2)		D01.1, D01.3			
Product Image	Product Code	Description	Finish	Qty	Units
	HBSFM	Hinges by Steel frame manufacturer		4	Each
	DPH206 BTB	dormakaba 400x30mm Offset Tubular Pull Handle BTB (BTB Fixing Sets included) (Pull Handle complies with BS 8424. Grade 3 - Heavy Duty)	Stainless Steel	1	Pair
	DCE-105 S.S	dormakaba Narrow Stile Cylinder escutcheon	Stainless Steel	1	Pair
	DKC206301 MK	dormakaba 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Knob Cylinder - Master Keyed	Satin Nickel	1	Each
	D02735 SS	dormakaba Narrow Stile Dead Lock Operating with European Profile Cylinder. Case dimensions (mm) 174H x 52D. Forend dimensions (mm) 238H x 22W. Backset 35mm. 20mm Throw	Stainless Steel	1	Each
	TS90 - SL	dormakaba EN 3/4 Cam action slide channel NON HOLD OPEN Door Closer - Hydraulic Speed Control. Pull Side - leaf or transom fixing; Push Side - leaf or transom fixing. EN3 850-950, EN4 950-1100 NOTE: Door closer to be installed on pull side	Silver	1	Each
	DDS-SS-017	dormakaba Floor Mounted Door Stop	Stainless Steel	1	Each

HARDWARE PER SET



PROJECT NAME: Thembaletu Pump Station

REPORT DATE: 25/10/2023

PROFESSIONAL: SMEC

REVISION DATE: 25/10/2023

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

REVISION: v 1

HARDWARE FOR SET:		02 - Escape SD			
Hardware Set Quantity :		1			
Notes					
Doors (2)		D01.2, D01.4			
Product Image	Product Code	Description	Finish	Qty	Units
	HBSFM	Hinges by Steel frame manufacturer		3	Each
	PHA2 S SD	dormakaba Two point locking panic bar - Single door - Door leaf 1000mm wide x 2270mm high (2201. 2104. PHX02. PHX04)	-	1	Set
	TS90 - SL	dormakaba EN 3/4 Cam action slide channel NON HOLD OPEN Door Closer - Hydraulic Speed Control. Pull Side - leaf or transom fixing; Push Side - leaf or transom fixing. EN3 850-950, EN4 950-1100 NOTE: Door closer to be installed on pull side	Silver	1	Each
	DDS-SS-017	dormakaba Floor Mounted Door Stop	Stainless Steel	1	Each

HARDWARE PER SET



PROJECT NAME: Thembaletu Pump Station

REPORT DATE: 25/10/2023

PROFESSIONAL: SMEC

REVISION DATE: 25/10/2023

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

REVISION: v 1

HARDWARE FOR SET:		03 - Alu SD			
Hardware Set Quantity :		1			
Notes					
Doors (2)		D04.1, D04.2			
Product Image	Product Code	Description	Finish	Qty	Units
	HBAFM	Hinges By Aluminium Frame Manufacturer		4	Each
	TH120 NS Cyl S.S	dormakaba Lever handle on narrow stile rose with narrow stile Cylinder escutcheons	Stainless Steel	1	Set
	DKC206301 MK	dormakaba 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Knob Cylinder - Master Keyed	Satin Nickel	1	Each
	D02635 SS	dormakaba Narrow Stile Sash Lock Operating with European Profile Cylinder. Case dimensions (mm) 174H x 52D. Forend dimensions (mm) 238H x 22W. Backset 35mm. 20mm Throw	Stainless Steel	1	Each
	DDS-SS-017	dormakaba Floor Mounted Door Stop	Stainless Steel	1	Each

HARDWARE PER SET



PROJECT NAME: Thembaletu Pump Station

REPORT DATE: 25/10/2023

PROFESSIONAL: SMEC

REVISION DATE: 25/10/2023

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

REVISION: v 1

HARDWARE FOR SET:		04 - Female WC			
Hardware Set Quantity :		1			
Notes					
Doors (1)		D05.1			
Product Image	Product Code	Description	Finish	Qty	Units
	DBB-SS-009	dormakaba 102x75x3mm, EN1935 Grade 13, Two ball bearing butt hinge. Fire rated. 120kg Carrying capacity per pair. Finish: Stainless steel.	Stainless Steel	1	Pair
	TH120 BP Cyl S.S	dormakaba Lever handle on 170x170 plate with Cylinder cutout	Stainless Steel	1	Set
	DBC006600	dormakaba 66mm Euro-profile Bathroom / Privacy Cylinder (Special Order)	Brass	1	Each
	D036S SS	dormakaba Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm. Centres 61mm.	Stainless Steel	1	Each
	DHC-SS-031B	dormakaba Hat and Coat Hook with rubber buffer NOTE: Buffer positioned to prevent handle hitting wall. Mounted accordingly	Stainless Steel	1	Each
	DKP-304-SF 200	dormakaba 200x(width of door)x1.2mm thick Grade 304 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (Special Order)	304 Brushed Stainless Steel	1	Each
	DSS-131 F	dormakaba 150x150mm FEMALE sign	Stainless Steel	1	Each

HARDWARE PER SET



PROJECT NAME: Thembaletu Pump Station

REPORT DATE: 25/10/2023

PROFESSIONAL: SMEC

REVISION DATE: 25/10/2023

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

REVISION: v 1

HARDWARE FOR SET:		05 - Male WC			
Hardware Set Quantity :		1			
Notes					
Doors (1)		D05.4			
Product Image	Product Code	Description	Finish	Qty	Units
	DBB-SS-009	dormakaba 102x75x3mm, EN1935 Grade 13, Two ball bearing butt hinge. Fire rated. 120kg Carrying capacity per pair. Finish: Stainless steel.	Stainless Steel	1	Pair
	TH120 BP Cyl S.S	dormakaba Lever handle on 170x170 plate with Cylinder cutout	Stainless Steel	1	Set
	DBC006600	dormakaba 66mm Euro-profile Bathroom / Privacy Cylinder (Special Order)	Brass	1	Each
	D036S SS	dormakaba Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm. Centres 61mm.	Stainless Steel	1	Each
	DHC-SS-031B	dormakaba Hat and Coat Hook with rubber buffer NOTE: Buffer positioned to prevent handle hitting wall. Mounted accordingly	Stainless Steel	1	Each
	DKP-304-SF 200	dormakaba 200x(width of door)x1.2mm thick Grade 304 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (Special Order)	304 Brushed Stainless Steel	1	Each
	DSS-130 M	dormakaba 150x150mm MALE sign	Stainless Steel	1	Each

HARDWARE PER SET



PROJECT NAME: Thembaletu Pump Station

REPORT DATE: 25/10/2023

PROFESSIONAL: SMEC

REVISION DATE: 25/10/2023

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

REVISION: v 1

HARDWARE FOR SET:		06 - Shower			
Hardware Set Quantity :		1			
Notes					
Doors (2)		D05.2, D05.3			
Product Image	Product Code	Description	Finish	Qty	Units
	DBB-SS-009	dormakaba 102x75x3mm, EN1935 Grade 13, Two ball bearing butt hinge. Fire rated. 120kg Carrying capacity per pair. Finish: Stainless steel.	Stainless Steel	1	Pair
	TH120 BP Cyl S.S	dormakaba Lever handle on 170x170 plate with Cylinder cutout	Stainless Steel	1	Set
	DBC006600	dormakaba 66mm Euro-profile Bathroom / Privacy Cylinder (Special Order)	Brass	1	Each
	D036S SS	dormakaba Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm. Centres 61mm.	Stainless Steel	1	Each
	DHC-SS-031B	dormakaba Hat and Coat Hook with rubber buffer NOTE: Buffer positioned to prevent handle hitting wall. Mounted accordingly	Stainless Steel	1	Each
	DKP-304-SF 200	dormakaba 200x(width of door)x1.2mm thick Grade 304 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (Special Order)	304 Brushed Stainless Steel	1	Each
	DSS-139 S	dormakaba 150x150mm SHOWER sign	Stainless Steel	1	Each

HARDWARE PER SET



PROJECT NAME: Thembaletu Pump Station

REPORT DATE: 25/10/2023

PROFESSIONAL: SMEC

REVISION DATE: 25/10/2023

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

REVISION: v 1

HARDWARE FOR SET:		07 - Office			
Hardware Set Quantity :		1			
Notes					
Doors (1)		D07			
Product Image	Product Code	Description	Finish	Qty	Units
	DBB-SS-009	dormakaba 102x75x3mm, EN1935 Grade 13, Two ball bearing butt hinge. Fire rated. 120kg Carrying capacity per pair. Finish: Stainless steel.	Stainless Steel	1.5	Pair
	TH120 Cyl S.S	dormakaba Lever handle on rose with Cylinder escutcheons	Stainless Steel	1	Set
	DKC206301 MK	dormakaba 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Knob Cylinder - Master Keyed	Satin Nickel	1	Each
	D036S SS	dormakaba Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm. Centres 61mm.	Stainless Steel	1	Each
	DDS-SS-017	dormakaba Floor Mounted Door Stop	Stainless Steel	1	Each
	DKP-304-SF 200	dormakaba 200x(width of door)x1.2mm thick Grade 304 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (Special Order)	304 Brushed Stainless Steel	1	Each

BILL OF MATERIALS



PROJECT NAME: Thembaletu Pump Station

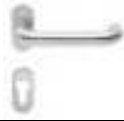
REPORT DATE: 25/10/2023

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REVISION DATE: 25/10/2023

CONSULTANT: Chantelle Pieters - 066 474 1884 - chantelle.pieters@dormakaba.com

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Product Image	Product Code	Description	Finish	Units	Qty	Price (ZAR)	Total (ZAR)
	DBB-SS-009	dormakaba 102x75x3mm, EN1935 Grade 13, Two ball bearing butt hinge. Fire rated. 120kg Carrying capacity per pair. Finish: Stainless steel.	Stainless Steel	Pair	5.5		
	HBAFM	Hinges By Aluminium Frame Manufacturer		Each	8.0		
	HBSFM	Hinges by Steel frame manufacturer		Each	14.0		
	DPH206 BTB	dormakaba 400x30mm Offset Tubular Pull Handle BTB (BTB Fixing Sets included) (Pull Handle complies with BS 8424. Grade 3 - Heavy Duty)	Stainless Steel	Pair	2.0		
	PHA2 S SD	dormakaba Two point locking panic bar - Single door - Door leaf 1000mm wide x 2270mm high (2201. 2104. PHX02. PHX04)	-	Set	2.0		
	TH120 BP Cyl S.S	dormakaba Lever handle on 170x170 plate with Cylinder cutout	Stainless Steel	Set	4.0		
	TH120 NS Cyl S.S	dormakaba Lever handle on narrow stile rose with narrow stile Cylinder escutcheons	Stainless Steel	Set	2.0		
	DBC006600	dormakaba 66mm Euro-profile Bathroom / Privacy Cylinder (Special Order)	Brass	Each	4.0		
	DCE-105 S.S	dormakaba Narrow Stile Cylinder escutcheon	Stainless Steel	Pair	2.0		
	TH120 Cyl S.S	dormakaba Lever handle on rose with Cylinder escutcheons	Stainless Steel	Set	1.0		
	D02635 SS	dormakaba Narrow Stile Sash Lock Operating with European Profile Cylinder. Case dimensions (mm) 174H x 52D. Forend dimensions (mm) 238H x 22W. Backset 35mm. 20mm Throw	Stainless Steel	Each	2.0		
	D036S SS	dormakaba Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm. Centres 61mm.	Stainless Steel	Each	5.0		

BILL OF MATERIALS



PROJECT NAME: Thembaletu Pump Station

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Product Image	Product Code	Description	Finish	Units	Qty	Price (ZAR)	Total (ZAR)
	DKC206301 MK	dormakaba 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Knob Cylinder - Master Keyed	Satin Nickel	Each	5.0		
	D02735 SS	dormakaba Narrow Stile Dead Lock Operating with European Profile Cylinder. Case dimensions (mm) 174H x 52D. Forend dimensions (mm) 238H x 22W. Backset 95mm. 20mm Throw	Stainless Steel	Each	2.0		
	TS90 - SL	dormakaba EN 3/4 Cam action slide channel NON HOLD OPEN Door Closer - Hydraulic Speed Control. Pull Side - leaf or transom fixing; Push Side - leaf or transom fixing. EN3 850-950, EN4 950-1100	Silver	Each	4.0		
	DDS-SS-017	dormakaba Floor Mounted Door Stop	Stainless Steel	Each	7.0		
	DHC-SS-031B	dormakaba Hat and Coat Hook with rubber buffer	Stainless Steel	Each	4.0		
	DKP-304-SF 200	dormakaba 200x(width of door)x1.2mm thick Grade 304 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (Special Order)	304 Brushed Stainless Steel	Each	5.0		
	DSS-130 M	dormakaba 150x150mm MALE sign	Stainless Steel	Each	1.0		
	DSS-131 F	dormakaba 150x150mm FEMALE sign	Stainless Steel	Each	1.0		
	DSS-139 S	dormakaba 150x150mm SHOWER sign	Stainless Steel	Each	2.0		
Total (ZAR)							

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Annexure G **Architectural Sanitary Schedule**



SMEC INTERNAL REF. C1924

UPGRADING OF THEMBALETHU No. 6 SEWER PUMP STATION

DRAFT SANITARY SCHEDULE

Client Reference No. T/ING/010/2020
Prepared for GEORGE MUNICIPALITY
19 October 2023

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Revision Number	B

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Revision No.	Date	Prepared By	Reviewed By	Approved for Issue By
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Table of Contents

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1 General Notes:

This document should be read in conjunction with the issued drawings: Floor Plans, Internal Elevations, Sections and Room Data Sheets (where applicable).

Please take note of the following:

- Please refer to elevations of rooms where issued – internal elevations and joinery diagrams
- NB: INSTALLATION: all in strict accordance with supplier / manufacturer's specifications
- VERY IMPORTANT: strictly adhere to heights given on schedules & RDS's for installation of sanitary fittings and taps. INTERNAL ELEVATIONS takes preference above heights stated in this schedule. If no heights are confirmed, please confirm with Architect prior to installation
- NO changes in specifications are allowed unless approved by the Architect in writing
- All connectors in toilets and bathrooms must be chromed flexible type: COBRA 350mm braided flexible connector.
- All warm and cold pipes in walls to be wrapped in building paper
- Only Class 2 copper piping to be used
- No copper to galvanised allowed
- NB: where copper pipes penetrate brick walls – to be encased a PVC sleeves
- NB: Ceramic / porcelain wall tiles and stone worktops to be drilled not spilt to accommodate mounting of taps if required.
- Angle regulating valves to all wash hand basins in vanity slabs.
- All sanitary ware colours: WHITE unless otherwise specified
- Approved silicone sealants between all fittings and finished wall surface for secure and neat installation – colour to be suitable to fitting colour. A sample to be approved before proceeding with installation: DEN BRAVEN type Acryl-W acrylic sealant (to be painted over where required) or similar approved. Colour: White
- PLEASE NOTE: Pictures of sanitary fittings on this schedule are only for the sanitary fitting itself – orders to be placed on specs
- Corners & edges to all S/S fittings to be finished smoothly.
- Taps must correctly indicate hot or cold water by respective red or blue inset buttons.
- Standard spec for STOPCOCK: SCHLOESSER - Standard - Angle Valve Body - Chrome - 1/2"x3/8" – 7105: PRODUCT CODE: SLA/000-000-00-07105

2 List of Sanitary Fittings:

Table 2-1: List of Sanitary Fittings: confirm quantities on reference drawings

NUMBER:	CODE:	DESCRIPTION:	QTY:
SF01	WC-1	Toilet	3
SF02	WHB-1	Wash Hand Basin-Ablution	3
SF03	WHB-1	Wash Hand Basin-Ablution	3

3 Sanitary Fitting Specifications:

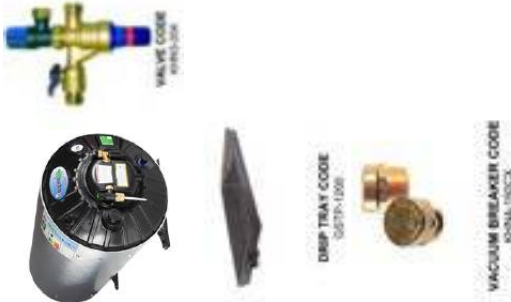
Table 3-1: Sanitary Fitting Specifications

DESCRIPTION / IMAGE:	FITTING NUMBER:	PRODUCT CODE:	SPECIFICATION:	LOCATION / AREA:
Toilet – Offices: 	SF01- WC-2	SKU-210 294 WITH: SLA00007111 WITH: AQT000SA030	WC: ARTIC: top flush toilet. SIZE: (780 x 355 x 620mm) including: TOILET SEAT: included – (soft closing) and Toilet Fixation L-Shaped brackets. PRODUCT CODE: SKU-210 294 WITH: Schlosser 7111 – ½" x ½" (15x15mm) Chrome Angle Valve Body. PRODUCT CODE: SLA00007111 WITH: Aquatouch SA30 – ½"F x ½"F / 450mm long Fx F Flexi Connector. PRODUCT CODE: AQT000SA030	WC
Wash Hand Basin: Office W  	SF02- WHB-2	SKU: GEB-500.316.01.1 WITH: SKU: HG-71719003 WITH: 302-32 WITH: COB-365/50	BASIN: GEBERIT: Selnova Square Wall-Hung Basin With Centre Tap Hole 360X280Mm White. SIZE: Length (mm) 360 x Width (mm) 280 x Height (mm) 145. PRODUCT CODE: SKU: GEB-500.316.01.1 WITH: TAP: TAP: HANS GROHE Talis E Self-Closing Pillar Tap Chrome Aus – Hansgrohe PRODUCT CODE: SKU: HG-71719003 OR: TAP: COBRA METERING PILLAR TAP PRODUCT CODE: KM2-100 WITH: WASTE: COBRA - Universal - 32mm x1¼" Slotted Push-Open (Clicker) Waste - 302-32 - Chrome PRODUCT CODE: 302-32 WITH: TRAP: COBRA - Wastes, Traps & Overflows Sink Traps – Chrome Bottle trap, chrome. Includes: a high specification polymer-blend body component, 75mm deep re-seal and adjustable telescopic pipe, and ½" female inlet x Ø 50mm outlet for PVC tube. PRODUCT CODE: COB-365/50	WC

Sanitary Fitting Specifications:

DESCRIPTION / IMAGE:	FITTING NUMBER:	PRODUCT CODE:	SPECIFICATION:	LOCATION / AREA:
Water Heater: 	SF03-WH	STE/000-020-3-073912	STIEBEL ELTRON: SHC 10, Under Basin NON-PRESSURE SNU-10 SLI storage water heaters for under basin installation SIZE: (H) 430mm x (W) 280mm x (D) 270mm, PRODUCT CODE: STE/000-020-3-073912 WITH: SCHLOESSER - Universal - Angle Valve - Body 15x10mm (1/2" x 3/8") - 7105 - Chrome, PRODUCT CODE: SLA/000-000-00-07105	WC
Gulley: 	SF04-G	WITH: COB/BRAS-092-208-015	TAP: 1 x COBRA WATERTECH Outside Garden - Wall Type Plain Bib Tap - 208-15 - Brass, INSTALLATION: Wall mounted @ 600mm above Gully, unless otherwise shown, PRODUCT CODE: COB/BRAS-092-208-015 WITH: GULLEY: Concrete precast drain Gully, WITH Underground gully P-trap, PRODUCT CODE: UGB40 WITH Gully head with Cast Iron flat Round Gully Grate Lid 190mm, PRODUCT CODE: 000219	WC
Floor Drain: 	SF05-FD	405815	FLOOR DRAIN: ACO EG150 Range for Cementitious and Resin Screed Applications. ACO Eurogullies are designed to provide hygienic, quick, simple and economic trapped drainage solutions. 316 grade stainless steel for aggressive applications Low profile, telescopic adjustment EG150 DN70 with horizontal spigot PRODUCT CODE: 97251 WITH: ACO Shower Gully Slip resistant grating, Stainless Steel grade 316 with two tone finish for Cementitious flooring, SIZE: 150 x 150MM PRODUCT CODE: 401527 Installed in strict accordance with manufacturer specifications. Drainage components must interface with the floor effectively. Gullies directly clamp the flooring material into the gully body whilst still allowing full access for maintenance.	Passage

Sanitary Fitting Specifications:

DESCRIPTION / IMAGE:	FITTING NUMBER:	PRODUCT CODE:	SPECIFICATION:	LOCATION / AREA:
Geyser: (REV B) 	SF05- FD	DSG-150-5	GEYSER: Kwikot 150L SuperLine 400 Dual electric water heater (Code: DSG-150-5) complying with SABS 151-2002. SIZE: 1335mm x 538mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be installed horizontally in roof space with 1160 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code: GSTP-1200) and 15mm pipe work including two 15mm vacuum breakers (Code: KHN4-150CX) installed on hot and cold-water supply. Installation to include a 15mm 400kPa Kwikot Multi control and expansion relief valve (Code: KHN3-204), all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.	

4 List of Bathroom Accessories:

Table 4-1: List of Bathroom Accessories: confirm quantities on reference drawings

NUMBER:	CODE:	DESCRIPTION:	QTY:
BA01	TRH	Toilet Roll Holder	3
BA02	SD	Soap Dispenser	3
BA03	HD	Hand Dryer	2
BA04	WB 1	Waste Bin 1	3
BA05	M	Mirror	5
BA06	TR	Towel Rail	2
BA07	SS	Shower Seat	2
BA08	SHD	Shower Drain	2

5 Bathroom Accessories Specifications:

Table 5-1: Bathroom Accessories Specifications

DESCRIPTION / IMAGE:	FITTING NUMBER:	PRODUCT CODE:	SPECIFICATION:	LOCATION / AREA:
Toilet Roll Holder: 	BA01-	TRH	FRANKE: Rodan Wall Mounted Double Toilet Roll Holder with Spindle RODX672 Double toilet roll holder with spindle system for wall mounting, Stainless Steel, surface satin finished, folded front cover, cylinder lock with Franke standard key. For 2 rolls with max. Ø 120 mm. Includes Stainless Steel screws and dowels. Grade 304 0,8mm Stainless Steel. SIZE: 144 x 138 x 301. PRODUCT CODE: SKU: 2120101	Ablutions
Soap Dispenser: 	BA02-	SD	FRANKE: Rodan RODX619. 0,8mm thick satin finished stainless steel soap dispenser. SIZE: 200 x 85 x 140mm high with 1 litre capacity, front push button, cylinder lock and Franke standard key, plugged and screwed to the wall with stainless steel screws. PRODUCT CODE: SKU: 2120095	Ablutions
Hand Dryer: 	BA03-	HD	FRANKE: Jetstream Airtronic Warm Air Hand Dryer Sensor operated hand dryer for wall mounting manufactured from Grade 304 1,2mm Stainless Steel, brushed finish. Warm air output: 90m/s at 55°C. Adjustable sensitivity: from 50 to 250mm. Vandal resistant lock, screws, and key wrench ELECTRICAL SPECIFICATION: Connection voltage: 230 V, 50Hz. SIZE: 245 x 140 x 167mm. PRODUCT CODE: SKU: 2500002	Ablutions

Waste Bin: Basins 	BA04-	WB 1	FRANKE: Rodan Waste Bin - Wall Mounting RODX605 Waste Bin for wall mounting, 0.8 mm Stainless Steel, surface satin finished. Rounded edges, approx. 23 litre capacity, mounting either with mounting bracket or directly onto the wall, includes Stainless Steel screws and dowels. SIZE: 355 x 168 x 460. PRODUCT CODE: SKU: 2120097	Ablutions
Mirror: Ablution 	BA05-	M-1	Stainless steel mirrors for commercial & industrial applications. SIZE: 400 x 300 x 1 mm thick (2x installed above basin) PRODUCT CODE: SKU: 359900 / 2120077	Ablutions
Towel Rail: Ablution 	BA06-	TR	FRANKE: Cubus Double Towel Rail CUBX002HP Double towel rail for wall mounting with 304 stainless steel and square covers to conceal the fixing of screws including SS screws and dowels. FINISH: Polished stainless steel DIMENSIONS: 600x125x54mm SKU: 2120181	Showers
Shower Seat: Ablution 	BA07-	SS	FRANKE: CNTX400A SHOWER SEAT Franke Foldable shower seat for commercial & industrial applications. SKU: 2120104	Showers

Bathroom Accessories Specifications:

Shower Drain: 	BA08-	SHD	INTERNATIONAL TAP SOLUTIONS: ITD Lucy Shower Drain Stainless Steel DIMENSIONS: 110x110mm	Showers
Shower Shelf: (Rev B) 	BA09-	SHSH	Corner Shower Shelf - Appolo SKU: 15-APO-CSC0-SS0 OR SIMILAR APPROVED	Showers

6 Abbreviations and Acronyms

Abbreviation and Acronym tables where applicable

Table 6-1: Abbreviations

Abbreviation	Meaning	Abbreviation	Meaning
SF	Sanitary Fitting	BA	Bathroom Accessories
WHB	Wash Hand basin	WB	Waste Bin
SH	Shower	TRH	Toilet Roll Holder
DS	Drip Sink	HD	Hand Dryer
SH	Slop Hopper	SD	Soap Dispenser
FD	Floor Drain	GR	Grabrail
WP	Water Point	BC	Baby Change
WC	Water closet – (toilet)	M	Mirror
S	Sink	C	WC Cubical System
UR	Urinal		
WH	Water Heater	RWDP	Rainwater downpipe
G	Gulley	FB	Full-bore Outlet

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PLAN 1:

Locality Plan



SCALE:

**SEWER PUMP STATION
THEMBALETHU NO. 6**

LOCALITY PLAN



Projection: Transverse Mercator
Centre Lon: 22°29'43" E
Centre Lat: 34°01'17" S
Created: 8/20/2026
Scale: 1:16000



21 Trotter Street, P.O. Box 2180
KNYSNA, 6570
☎ (044) 382 0420
☎ (086) 459 2987
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PLAN 2:

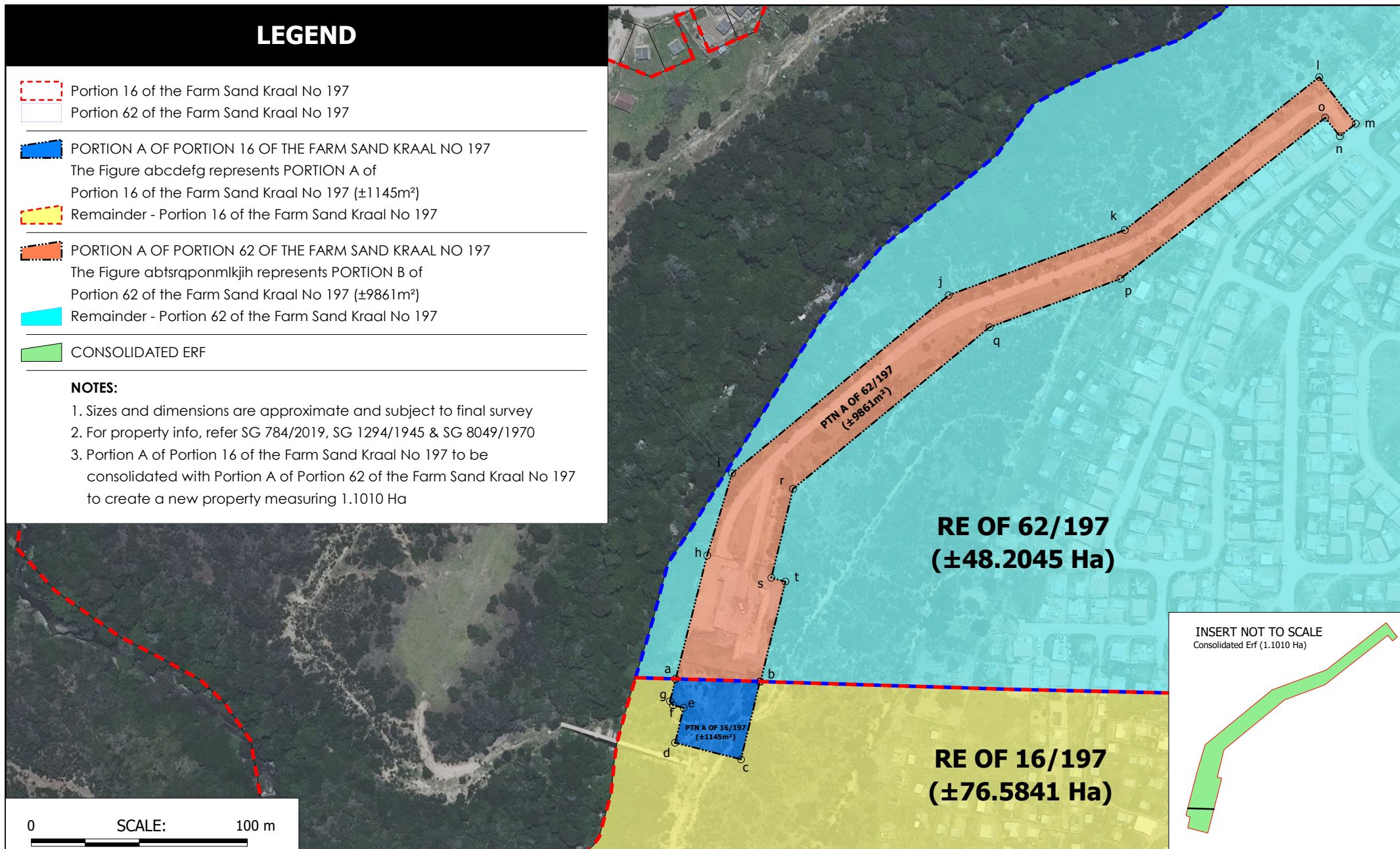
Consolidation Plan

LEGEND

-  Portion 16 of the Farm Sand Kraal No 197
 -  Portion 62 of the Farm Sand Kraal No 197
-
-  PORTION A OF PORTION 16 OF THE FARM SAND KRAAL NO 197
The Figure abcdefg represents PORTION A of
Portion 16 of the Farm Sand Kraal No 197 ($\pm 1145\text{m}^2$)
 -  Remainder - Portion 16 of the Farm Sand Kraal No 197
-
-  PORTION A OF PORTION 62 OF THE FARM SAND KRAAL NO 197
The Figure abtsrqponmlkjih represents PORTION B of
Portion 62 of the Farm Sand Kraal No 197 ($\pm 9861\text{m}^2$)
 -  Remainder - Portion 62 of the Farm Sand Kraal No 197
-
-  CONSOLIDATED ERF

NOTES:

1. Sizes and dimensions are approximate and subject to final survey
2. For property info, refer SG 784/2019, SG 1294/1945 & SG 8049/1970
3. Portion A of Portion 16 of the Farm Sand Kraal No 197 to be consolidated with Portion A of Portion 62 of the Farm Sand Kraal No 197 to create a new property measuring 1.1010 Ha



**PORTION 62 & PORTION 16 OF
THE FARM SAND KRAAL NO 197**

CONSOLIDATION PLAN



Projection: Transverse Mercator
Centre Lon: 22°29'25" E
Centre Lat: 34°01'12" S
Pr25/45-CON01
Created: 6/18/2026
Scale: 1:2300

Sheet: 7 (50) Appended Project: 01/1010 - SRE: 01/1010 A Satellite Project: SRE/01/1010/01/1010 - SRE: 01/1010 A Satellite Project: 01/1010



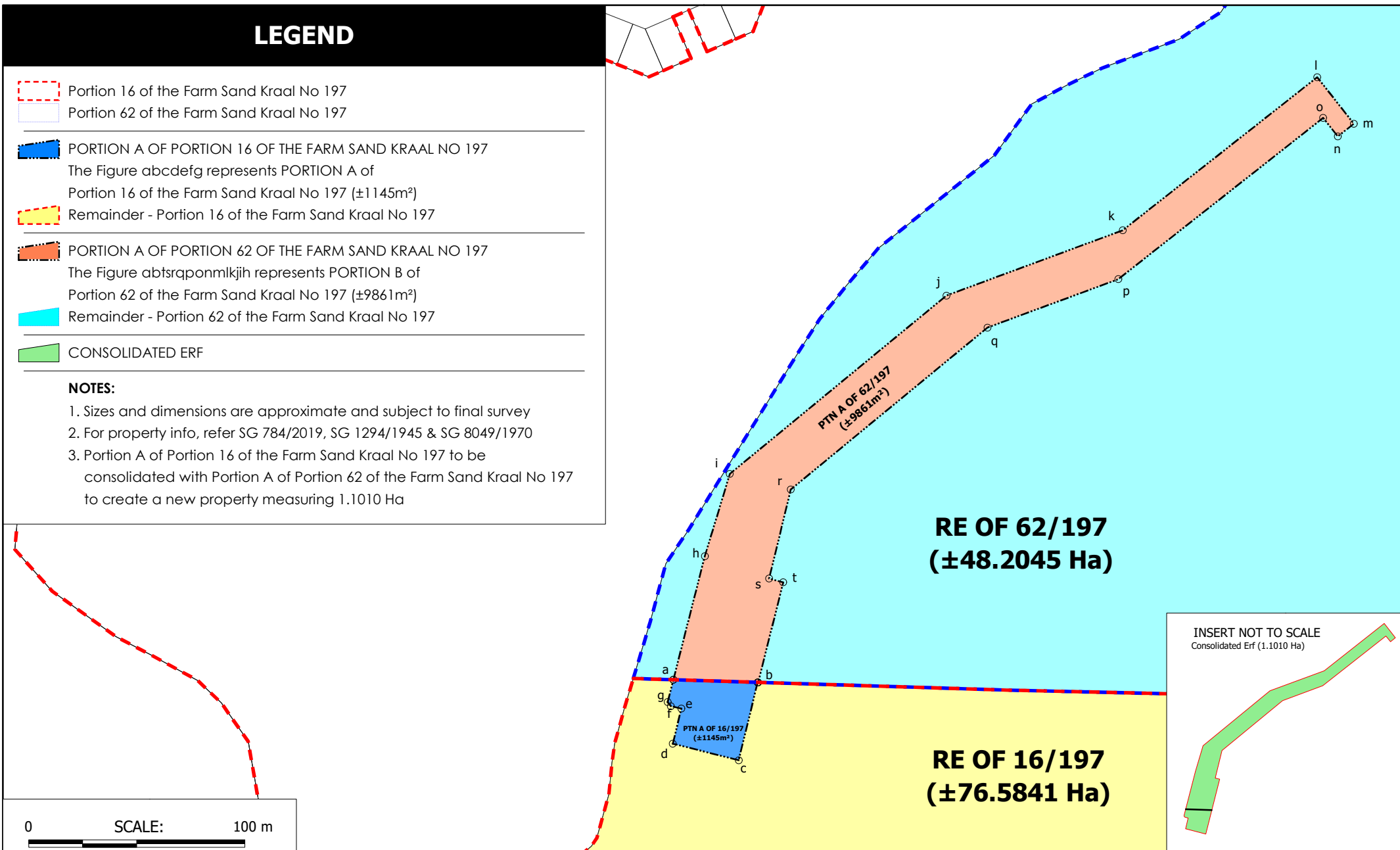
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KNYSNA, 6570
(044) 382 0420
(086) 459 2987
e-mail: info@vreken.co.za
web: www.vreken.co.za

LEGEND

- | | |
|--|---|
|  | Portion 16 of the Farm Sand Kraal No 197 |
|  | Portion 62 of the Farm Sand Kraal No 197 |
| <hr/> | |
|  | PORTION A OF PORTION 16 OF THE FARM SAND KRAAL NO 197 |
| | The Figure abcdefg represents PORTION A of |
| | Portion 16 of the Farm Sand Kraal No 197 ($\pm 1145\text{m}^2$) |
|  | Remainder - Portion 16 of the Farm Sand Kraal No 197 |
| <hr/> | |
|  | PORTION A OF PORTION 62 OF THE FARM SAND KRAAL NO 197 |
| | The Figure abtsraqponmlkjh represents PORTION B of |
| | Portion 62 of the Farm Sand Kraal No 197 ($\pm 9861\text{m}^2$) |
|  | Remainder - Portion 62 of the Farm Sand Kraal No 197 |
| <hr/> | |
|  | CONSOLIDATED ERF |

NOTES:

1. Sizes and dimensions are approximate and subject to final survey
2. For property info, refer SG 784/2019, SG 1294/1945 & SG 8049/1970
3. Portion A of Portion 16 of the Farm Sand Kraal No 197 to be consolidated with Portion A of Portion 62 of the Farm Sand Kraal No 197 to create a new property measuring 1.1010 Ha



**PORTION 62 & PORTION 16 OF
THE FARM SAND KRAAL NO 197**

CONSOLIDATION PLAN



Projection: Transverse Mercator
Centre Lon: 22°29'25" E
Centre Lat: 34°01'12" S
Pr25/45-CON01
Created: 6/18/2026
Scale: 1:2300



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PLAN 3:

Portion 62 Subdivision Plan

LEGEND



Portion 62 of the Farm Sand Kraal No 197



PORTION A

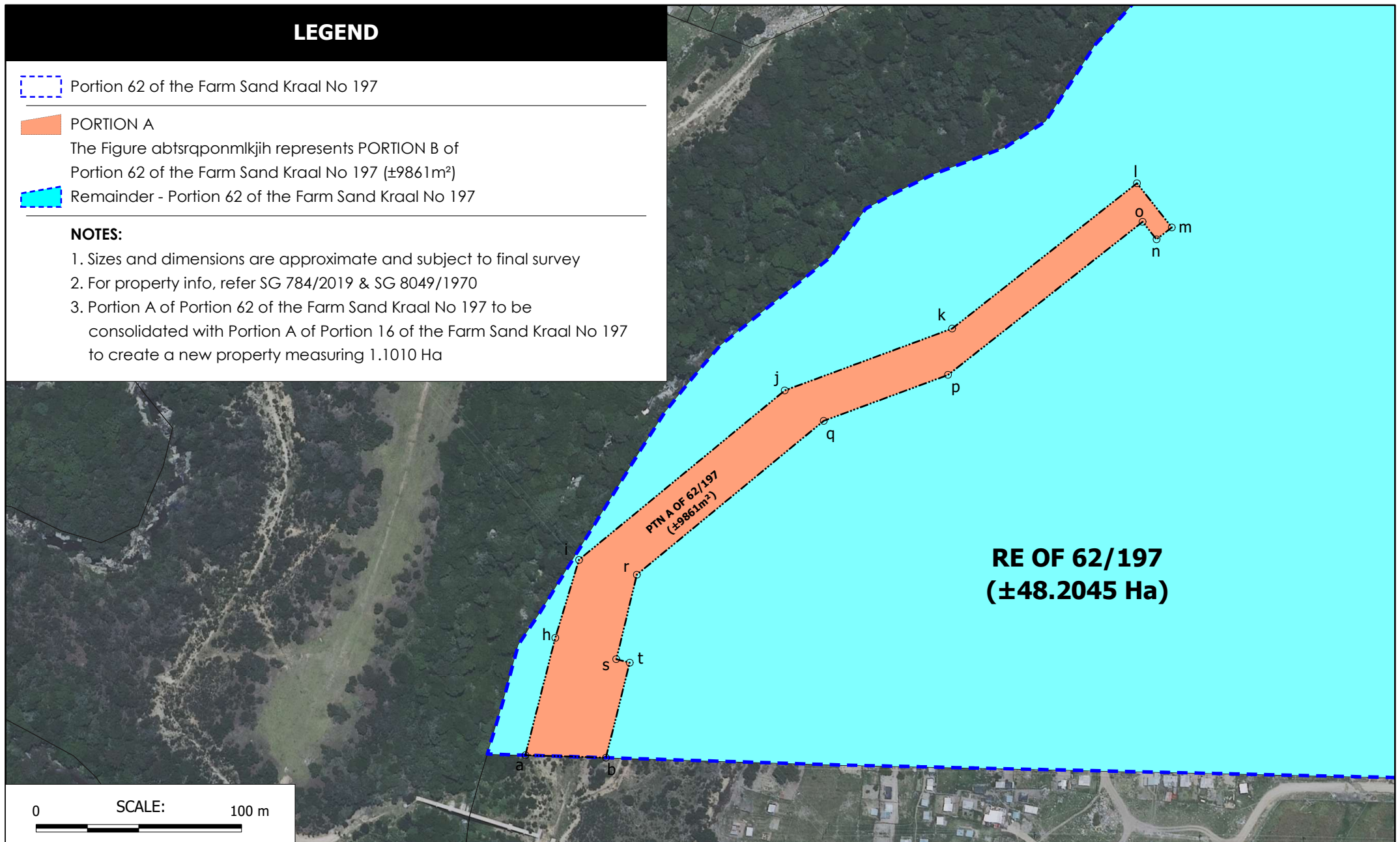
The Figure abtsrqponmlkijh represents PORTION B of Portion 62 of the Farm Sand Kraal No 197 ($\pm 9861\text{m}^2$)



Remainder - Portion 62 of the Farm Sand Kraal No 197

NOTES:

1. Sizes and dimensions are approximate and subject to final survey
2. For property info, refer SG 784/2019 & SG 8049/1970
3. Portion A of Portion 62 of the Farm Sand Kraal No 197 to be consolidated with Portion A of Portion 16 of the Farm Sand Kraal No 197 to create a new property measuring 1.1010 Ha



PORTION 62 OF THE FARM
SAND KRAAL NO 197

PORTION 62 SUBDIVISION PLAN



Projection: Transverse Mercator
Centre Lon: 22°29'27" E
Centre Lat: 34°01'10" S
Pr25/45-SUB02
Created: 6/18/2026
Scale: 1:2400



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LEGEND

Portion 62 of the Farm Sand Kraal No 197

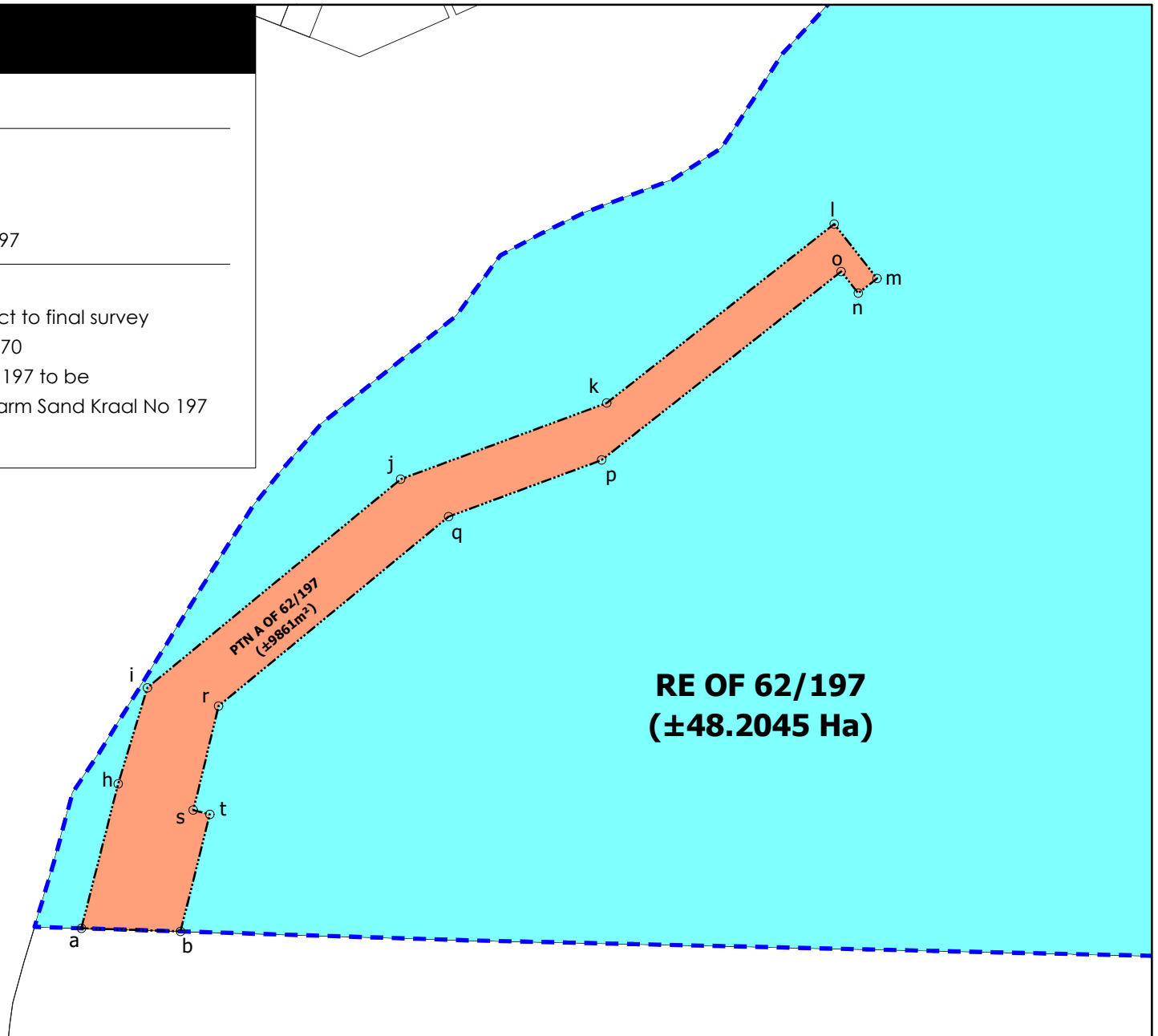
PORTION A

The Figure abtsrqponmlkijh represents PORTION B of
Portion 62 of the Farm Sand Kraal No 197 ($\pm 9861\text{m}^2$)

 Remainder - Portion 62 of the Farm Sand Kraal No 197

NOTES:

1. Sizes and dimensions are approximate and subject to final survey
2. For property info, refer SG 784/2019 & SG 8049/1970
3. Portion A of Portion 62 of the Farm Sand Kraal No 197 to be consolidated with Portion A of Portion 16 of the Farm Sand Kraal No 197 to create a new property measuring 1.1010 Ha



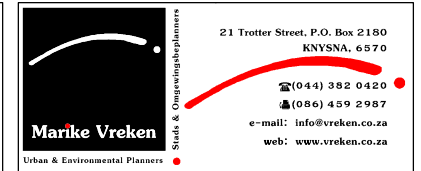
0 SCALE: 100 m

**PORTION 62 OF THE FARM
SAND KRAAL NO 197**

PORTION 62 SUBDIVISION PLAN



Projection: Transverse Mercator
Centre Lon: 22°29'27" E
Centre Lat: 34°01'10" S
Pr25/45-SUB02
Created: 6/18/2026
Scale: 1:2400



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PLAN 4:

Portion 16 Subdivision Plan

LEGEND



Portion 16 of the Farm Sand Kraal No 197



PORTION A

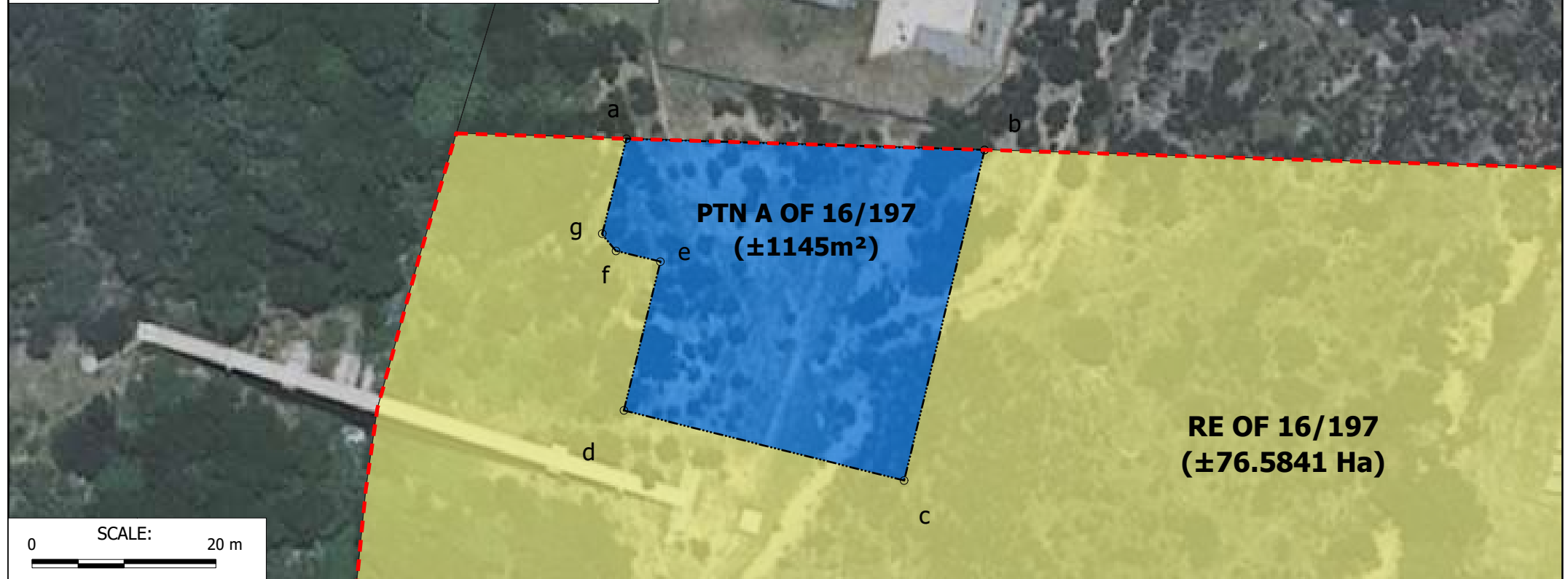
The Figure abcdefg represents PORTION A of
Portion 16 of the Farm Sand Kraal No 197 ($\pm 1145\text{m}^2$)



Remainder - Portion 16 of the Farm Sand Kraal No 197

NOTES:

1. Sizes and dimensions are approximate and subject to final survey
2. For property info, refer SG 1294/1945 & SG 8049/1970
3. Portion A of Portion 16 of the Farm Sand Kraal No 197 to be consolidated with Portion A of Portion 62 of the Farm Sand Kraal No 197 to create a new property measuring 1.1010 Ha



PORTION 16 OF THE FARM
SAND KRAAL NO 197

PORTION 16 SUBDIVISION PLAN



Projection: Transverse Mercator
Centre Lon: 22°29'25" E
Centre Lat: 34°01'16" S
Pr25/45-SUB01
Created: 6/18/2026
Scale: 1:600

Sheet: T:\GIS\Approved\Project\197161 - 197161 Data & Sandkraal Project\SUBDIVISION\197161 - 197161 Data & Sandkraal Project.mxd



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LEGEND

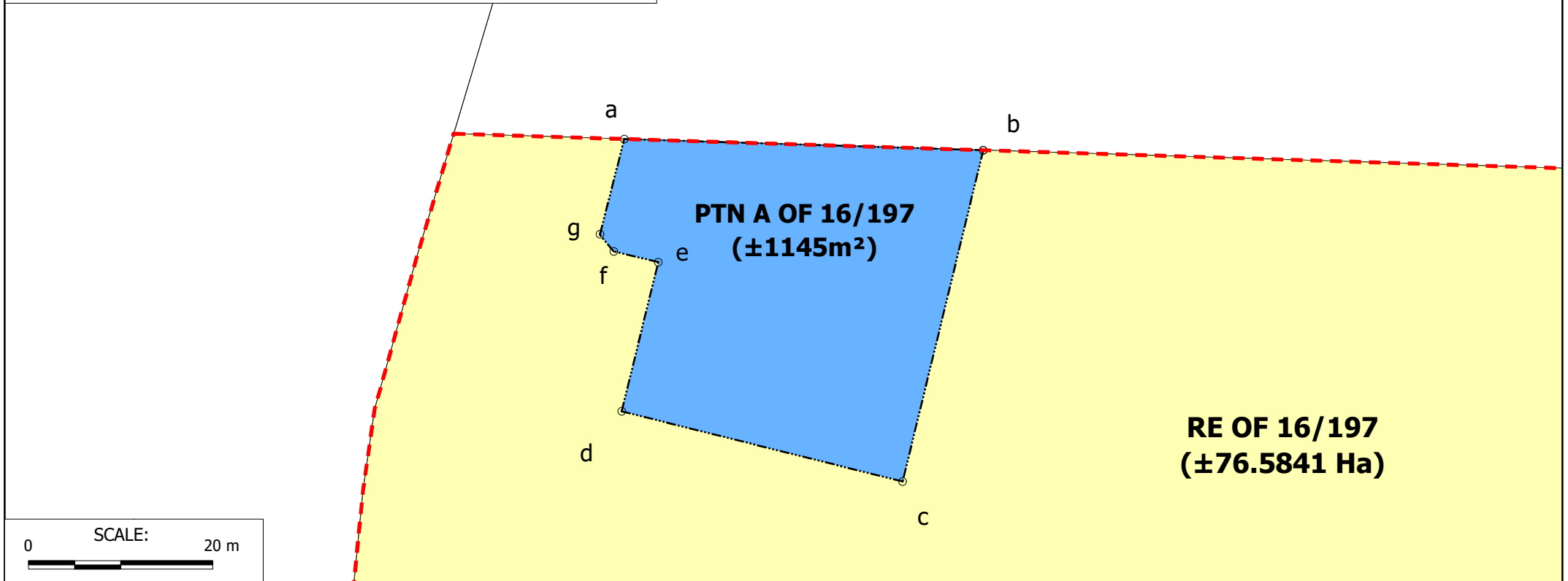
 Portion 16 of the Farm Sand Kraal No 197

 **PORTION A**
The Figure abcdefg represents PORTION A of
Portion 16 of the Farm Sand Kraal No 197 ($\pm 1145\text{m}^2$)

 Remainder - Portion 16 of the Farm Sand Kraal No 197

NOTES:

1. Sizes and dimensions are approximate and subject to final survey
2. For property info, refer SG 1294/1945 & SG 8049/1970
3. Portion A of Portion 16 of the Farm Sand Kraal No 197 to be consolidated with Portion A of Portion 62 of the Farm Sand Kraal No 197 to create a new property measuring 1.1010 Ha



**PORTION 16 OF THE FARM
SAND KRAAL NO 197**

PORTION 16 SUBDIVISION PLAN



Projection: Transverse Mercator
Centre Lon: 22°29'25" E
Centre Lat: 34°01'16" S
Pr25/45-SUB01
Created: 6/18/2026
Scale: 1:600

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PLAN 5:

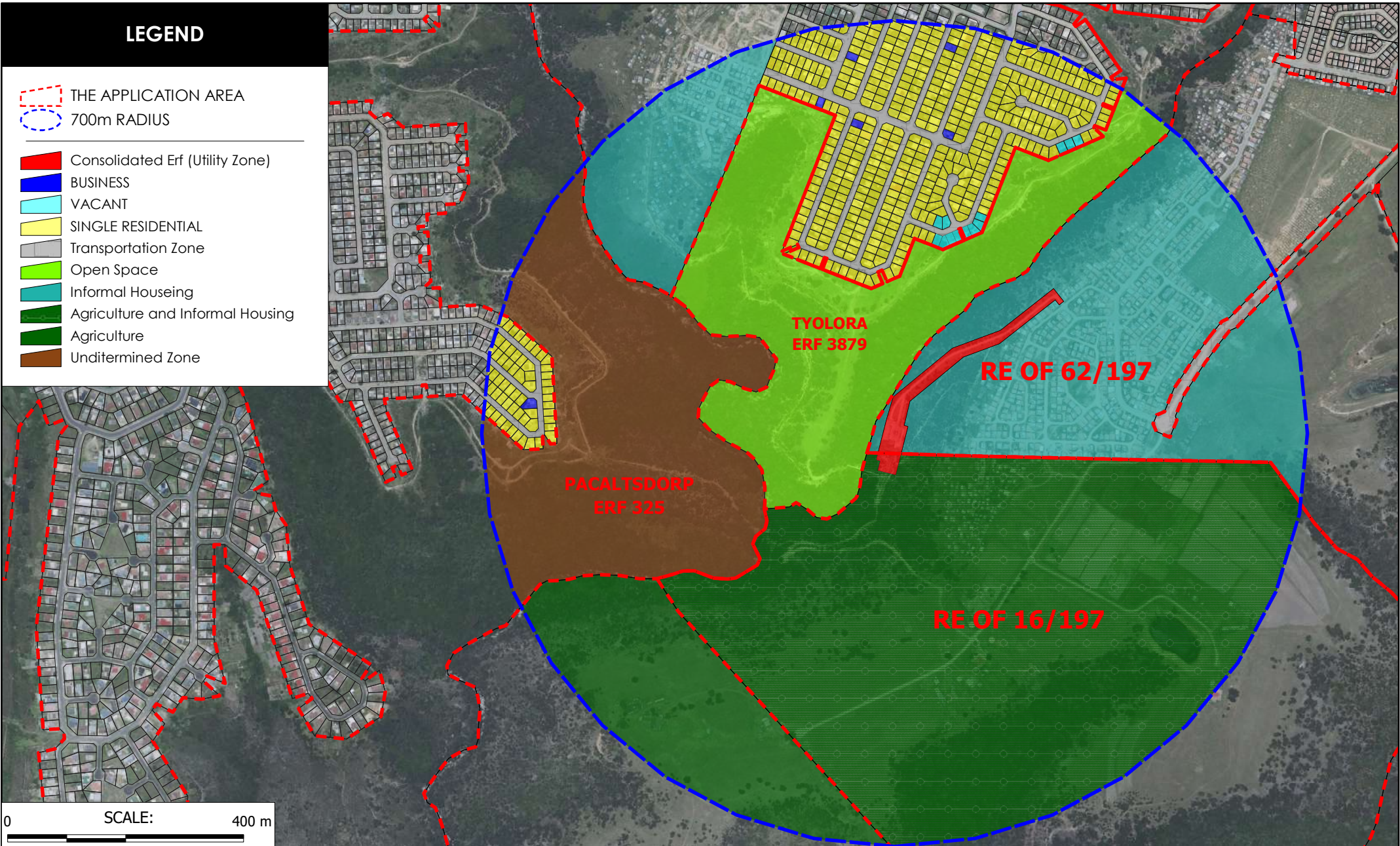
Land Use Plan

LEGEND

- THE APPLICATION AREA

700m RADIUS

 -  Consolidated Erf (Utility Zone)
 -  BUSINESS
 -  VACANT
 -  SINGLE RESIDENTIAL
 -  Transportation Zone
 -  Open Space
 -  Informal Houseing
 -  Agriculture and Informal Housing
 -  Agriculture
 -  Undetermined Zone



**PORTION 62 OF THE FARM SANDKRAAL
NO. 197, PORTION 16 OF THE FARM
SANDKRAAL NO. 197, REMAINDER OF
PACALTSORDORP ERF 325, AND TYOLORA
ERF 3879**

LAND USE PLAN




 Projection: Transverse Mercator
 Centre Lon: 22°29'12" E
 Centre Lat: 34°01'14" S
 Created: 6/19/2026
 Scale: 1:8400
Source: 1:2500000000 Point (10,35.595) UTM and Spheroid Diameter (6,378,137.000) (1,574,817.000) (1,574,817.000) UTM and Spheroid



Marlike Vreken
 Urban & Environmental Planners

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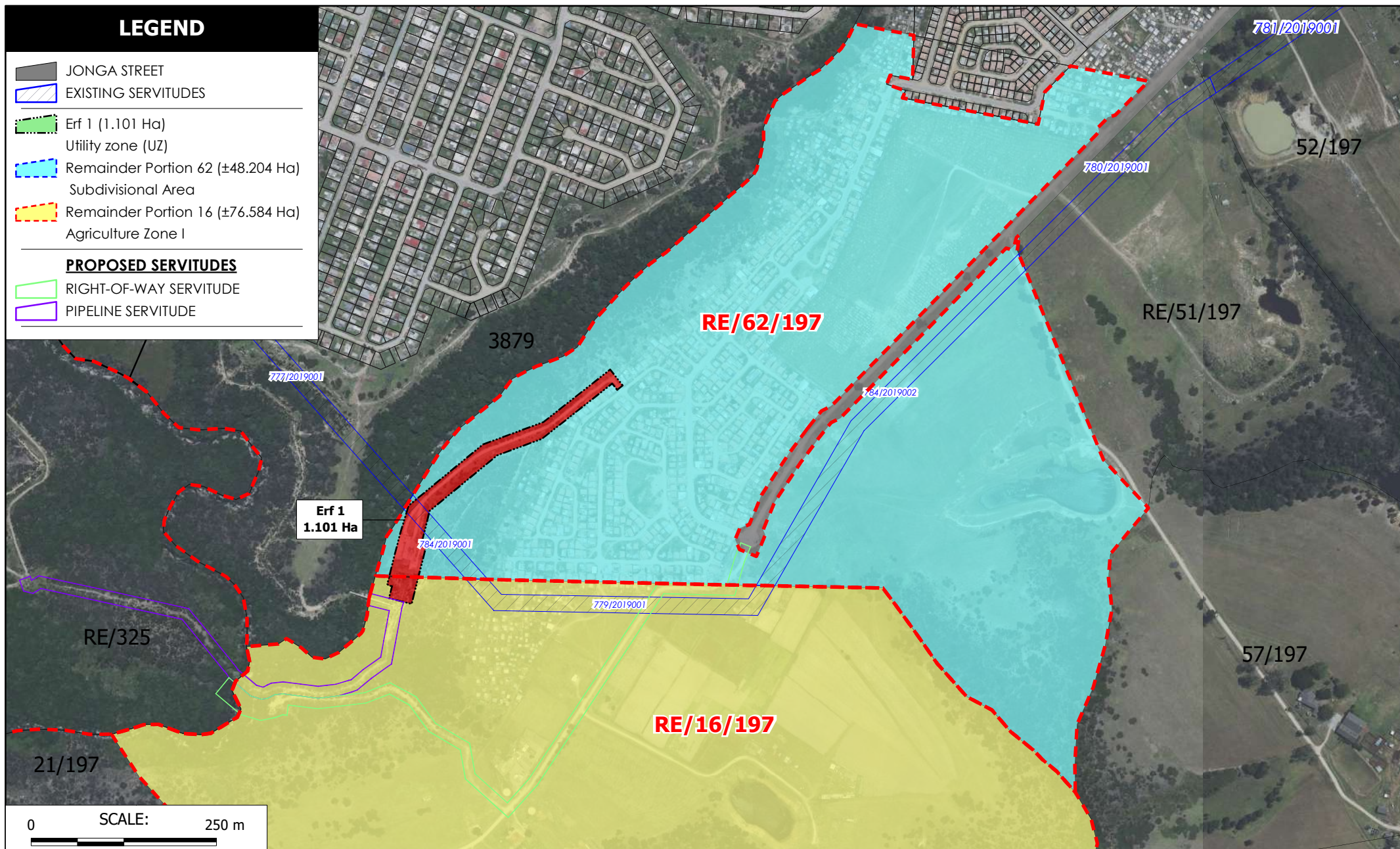
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PLAN 6:

Layout Plan

LEGEND

-  JONGA STREET
-  EXISTING SERVITUDES
-  Erf 1 (1.101 Ha)
Utility zone (UZ)
-  Remainder Portion 62 (±48.204 Ha)
Subdivisional Area
-  Remainder Portion 16 (±76.584 Ha)
Agriculture Zone I
-
- PROPOSED SERVITUDES**
-  RIGHT-OF-WAY SERVITUDE
-  PIPELINE SERVITUDE



THE REMAINDER OF PORTION 62
& PORTION 16
OF THE FARM SAND KRAAL NO 197

LAYOUT PLAN



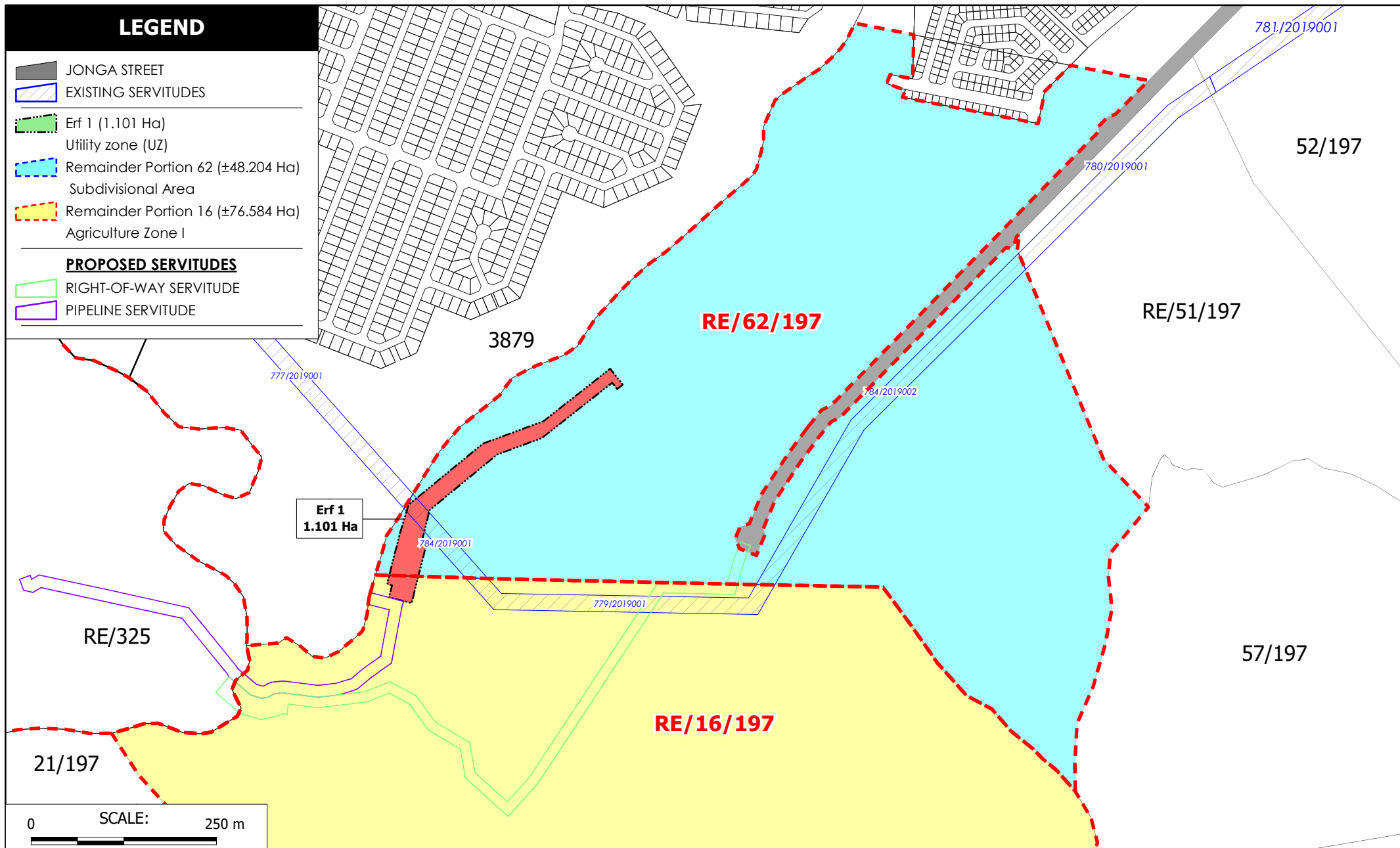
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Centre Lon: 22°29'41" E
Centre Lat: 34°01'09" S
Plan No: Pr25/45L01
Created: 6/25/2026
Scale: 1:6700



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LEGEND

-  JONGA STREET
-  EXISTING SERVITUDES
-  Erf 1 (1.101 Ha)
Utility zone (UZ)
-  Remainder Portion 62 (±48.204 Ha)
Subdivisional Area
-  Remainder Portion 16 (±76.584 Ha)
Agriculture Zone I
- PROPOSED SERVITUDES**
-  RIGHT-OF-WAY SERVITUDE
-  PIPELINE SERVITUDE



THE REMAINDER OF PORTION 62
& PORTION 16
OF THE FARM SAND KRAAL NO 197

LAYOUT PLAN



Projection: Transverse Mercator
Centre Lon: 22°29'41" E
Centre Lat: 34°01'09" S
Plan No: Pr25/45L01
Created: 6/25/2026
Scale: 1:6700



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