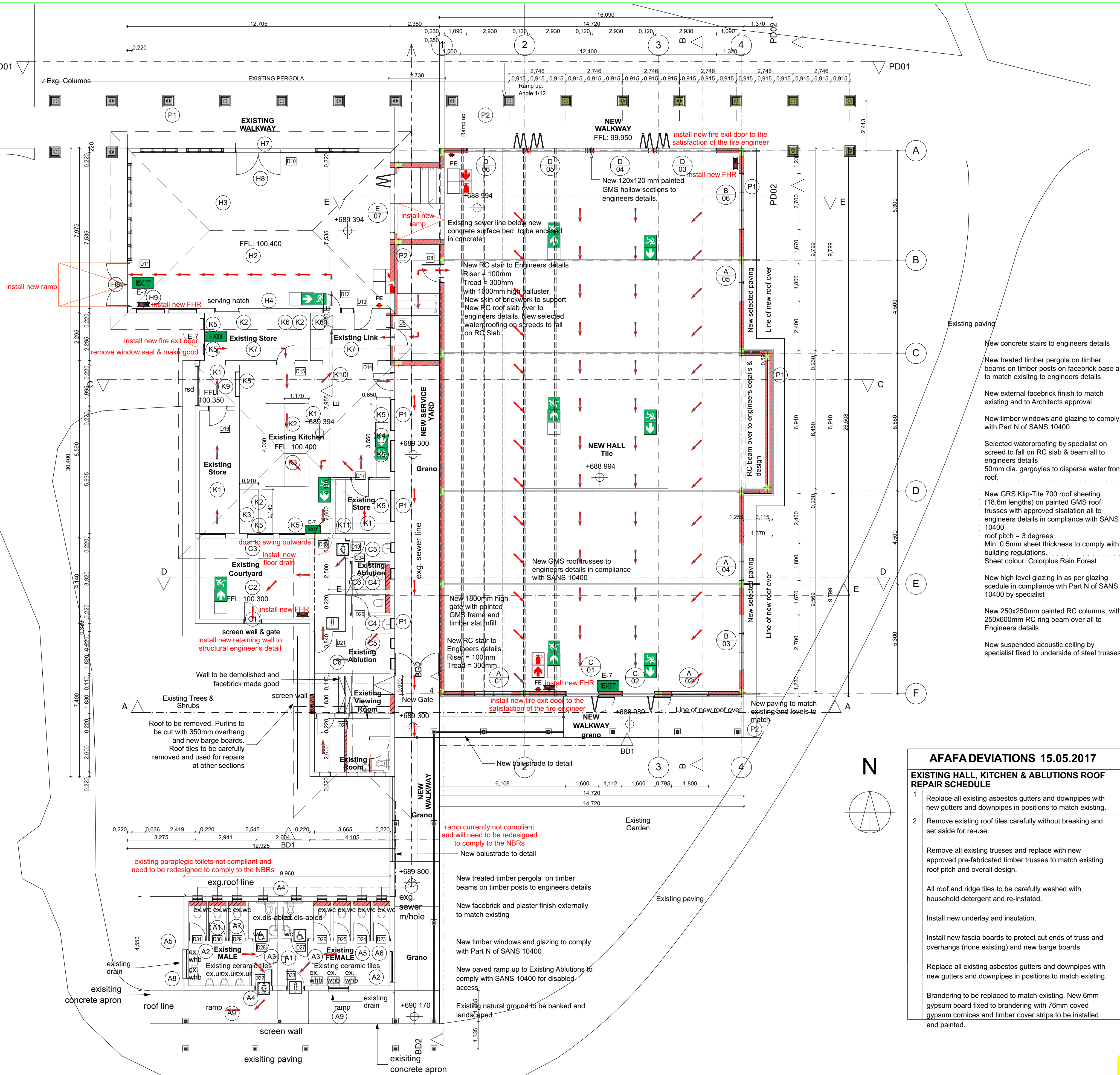


REPAIR & REFURBISHMENT SCHEDULE, COURTYARD	
C1	Replace courtyard Gate according to detail
C2	Pressure clean concrete courtyard floor
C3	Replace broken drain grating to match existing
C4	Replace all sanitary in change rooms as per sanitary specification
C5	Replace ex. linoleum flooring with 300mmx300mm ceramic tiles, colour to match existing tiles in hall.
C6	Branding to be inspected for damage and replaced accordingly to match existing. New Nutec fibre cement (in showers only) ceiling boards fixed to branding with 76mm covered gypsum cornices and timber cover strips to be installed and painted with Plascon one coat ceiling paint. Product code: occ 1. Colour: brilliant white. Paint according to manufacturer's specifications
REPAIR & REFURBISHMENT SCHEDULE, KITCHEN	
K1	Branding to be inspected for damage and replaced accordingly to match existing. New 6mm gypsum board fixed to branding with 76mm covered gypsum cornices and timber cover strips to be installed and painted with Plascon one coat ceiling paint. Product code: occ 1. Colour: brilliant white. Paint according to manufacturer's specifications
K2	Shelving to be sanded down and painted with Plascon Velvagio acc. to Manufacturer's spec. colour: Brilliant White
K3	Stainless steel worktops to be cleaned.
K4	Sink to be made good, cleaned and polished. Sink tap need to be replaced according to sanitary specification.
K5	Remove paint, sand smooth and varnish window frames with woodoc wax sealer, colour by Architect.
K6	Replace linoleum flooring to match existing
K7	The leak on flat slab roof in kitchen needs to be checked, and sealed by specialist. Underside of slab to be painted with Plascon one coat ceiling paint. Product code: occ 1 Colour: brilliant white. Paint according to manufacturer's specifications
K8	Fire signage to be fitted according to fire schedule
K9	Repair /fix/ replace roller shutter doors to match existing pending inspection
K10	Install ac unit in the empty ac position in the kitchen
K11	Remove existing timber shelves and install new mildsteel shelving strips with pine shelves 500mm wide from 500mm above floor level to 2000mm high at 500mm vertical spacing.

REPAIR & REFURBISHMENT SCHEDULE, MAIN HALL	
H1	New 6mm gypsum board fixed to current branding with 76mm covered gypsum cornices to be installed and painted with Plascon ceiling paint. Product code: occ 1. Colour: brilliant white.
H2	Floor and skirting tiles to be cleaned, loose cracked or damaged tiles to be removed and replaced with similar approved
H3	New lighting in ceiling to match existing
H4	Service aircons- check if aircon capacity installed is sufficient for room size
H5	Ex. Unpainted plasterwork to be filled, sanded and painted with Plascon wall and all. Product code: WAA 1 Colour: brilliant white.
H6	Burglar bars to be repainted to match existing.
H7	Front door steps to be re-screeded and made good, to match existing
H8	Fire signage to be fitted according to fire schedule
H9	Alarm wiring to be redone neatly

PAVING AND CONCRETE REFURBISHMENT NOTE	
P1	New Paving to match existing
P2	Existing paving to be uplifted and stored and re-laid on completion of building work

REPAIR & REFURBISHMENT SCHEDULE, MALE & FEMALE ABLUTIONS	
A1	New 6mm gypsum board fixed to current branding with 76mm covered gypsum cornices to be installed and painted with Plascon ceiling paint. Product code: occ 1. Colour: brilliant white.
A2	Floor and skirting tiles to be cleaned, loose cracked or damaged tiles to be removed and replaced with similar approved
A3	New lighting in ceiling
A4	Clean all facebrick externally including precat conc. coping and window & frame doors
A5	All sanitaryware to be replaced with new - urinal, whb/s & wc's and new bins and soap & toilet paper dispensers by Franke or similar approved by Architect.
A6	All existing timber door frames to be rubbed down, filled and painted with 2 coats Eggshell Enamel - Colour to be confirmed
A7	New indicator bolt and locks to be fitted to stall doors to match existing
A8	Damaged and broken fascia and barge boards to be replaced and all painted
A9	All existing concrete to be power cleaned.



GENERAL NOTES:	
1.	THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS INCLUDING THE SANS 1200 STANDARD SPECIFICATIONS.
2.	THE CONTRACTOR MUST IMPLEMENT A QUALITY ASSURANCE SYSTEM FOR THE EXECUTION OF THE WORK. THE QUALITY MANAGEMENT SYSTEM MUST BE APPROVED BY THE ENGINEER PRIOR TO THE START OF THE WORK. THE CONTRACTOR MUST PERFORM A QUALITY CONTROL INSPECTION BEFORE THE ENGINEER WILL DO ANY INSPECTIONS.
3.	THE CONTRACTOR SHALL CHECK ALL DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION OF ANY PORTION OF THE WORK. ANY DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
4.	WORK TO BE DONE TO FIGURED DIMENSIONS ONLY.
5.	PRODUCTS DIFFERENT TO THOSE SPECIFIED MAY ONLY BE USED WITH THE ENGINEER'S PRIOR WRITTEN APPROVAL.
FOUNDATION NOTES:	
1.	EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.
2.	FOUNDATIONS TO BE BUILT ON FIRM, WELL COMPACTED SOIL.
3.	THE ENGINEER MAY ORDER PLATE LOAD TESTS TO BE DONE TO ASCERTAIN THE BEARING CAPACITY OF THE FOUNDATION FOUNDING SURFACE.
4.	ASSUMED SAFE BEARING CAPACITY OF FOUNDING MATERIAL 75 kPa.
CONCRETE NOTES:	
1.	ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH SABS 1200G.
2.	CONCRETE CLASS TO BE AS FOLLOWS:
	BLINDING STANDARD REINFORCED CONCRETE 15 MPa/19mm 30 MPa/19mm
3.	THE CONTRACTOR MUST CO-ORDINATE ALL SERVICE DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL AND OTHER SERVICES.
4.	THE CONCRETE COVER TO REINFORCING IS AS FOLLOWS:
	FOUNDATIONS 40mm SURFACE BEDS (FROM TOP) 30mm
5.	THE STRENGTH OF THE CONCRETE COVER BLOCKS SHALL EXCEED THE STRENGTH OF CONCRETE OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED.
6.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY LAID CONCRETE.
7.	CONCRETE SHALL BE CURED TO AN APPROVED SPECIFICATION USING MEMBRANES, MIST SPRAY OR CURING COMPOUND THAT DOES NOT AFFECT ADHESION OR FINISHES.
8.	NO BRICK WALLS MAY BE BUILT ON FLOOR SLABS, BEAMS, WALLS, ETC. BEFORE THE ELEMENT HAS REACHED THE 28 DAY TARGET STRENGTH, UNLESS APPROVED IN WRITING BY THE ENGINEER.
9.	25 x 25 CHAMFERS TO BE FORMED AT ALL EXPOSED CONCRETE CORNERS
10.	250 MICRON OPC TO BE PLACED UNDER ALL SURFACE BEDS.

CLIENT

SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE

SANBI
Biodiversity for Life

South African National Biodiversity Institute

2 CUSSONIA AVENUE, BRUMMERIA
PRIVATE BAG X101
SILVERTON
0164

REV NO.	DATE	DESCRIPTION
R00	2022-03-11	ISSUED FOR CONCEPT & VIABILITY STAGE.
REVISIONS		

PROJECT CONSULTANT

PROJECTNEERS

PROJECTNEERS CONSULTING ENGINEERS & PROJECT MANAGERS

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APPROVAL CONSULTANT
B. TSHUMA

2022-03-11
THE MASTER HELD AT THE PROJECTNEERS CONSULTING ENGINEERS OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL.

PROJECT NAME
THE DESIGN REVIEW, CONSTRUCTION MONITORING AND PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION CENTRE, TOILETS AND REPAIRS TO DEFECTIVE WORK FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWAZULU-NATAL NATIONAL BOTANICAL GARDEN, PIETERMARITZBURG

PROJECT SITE
PIETERMARITZBURG BOTANICAL GARDEN
2 Zwartkop Road, Pietermaritzburg
PORTION 26 OF ERF 3105

SHEET TITLE
NEW HALL: GROUND STOREY FLOOR PLAN

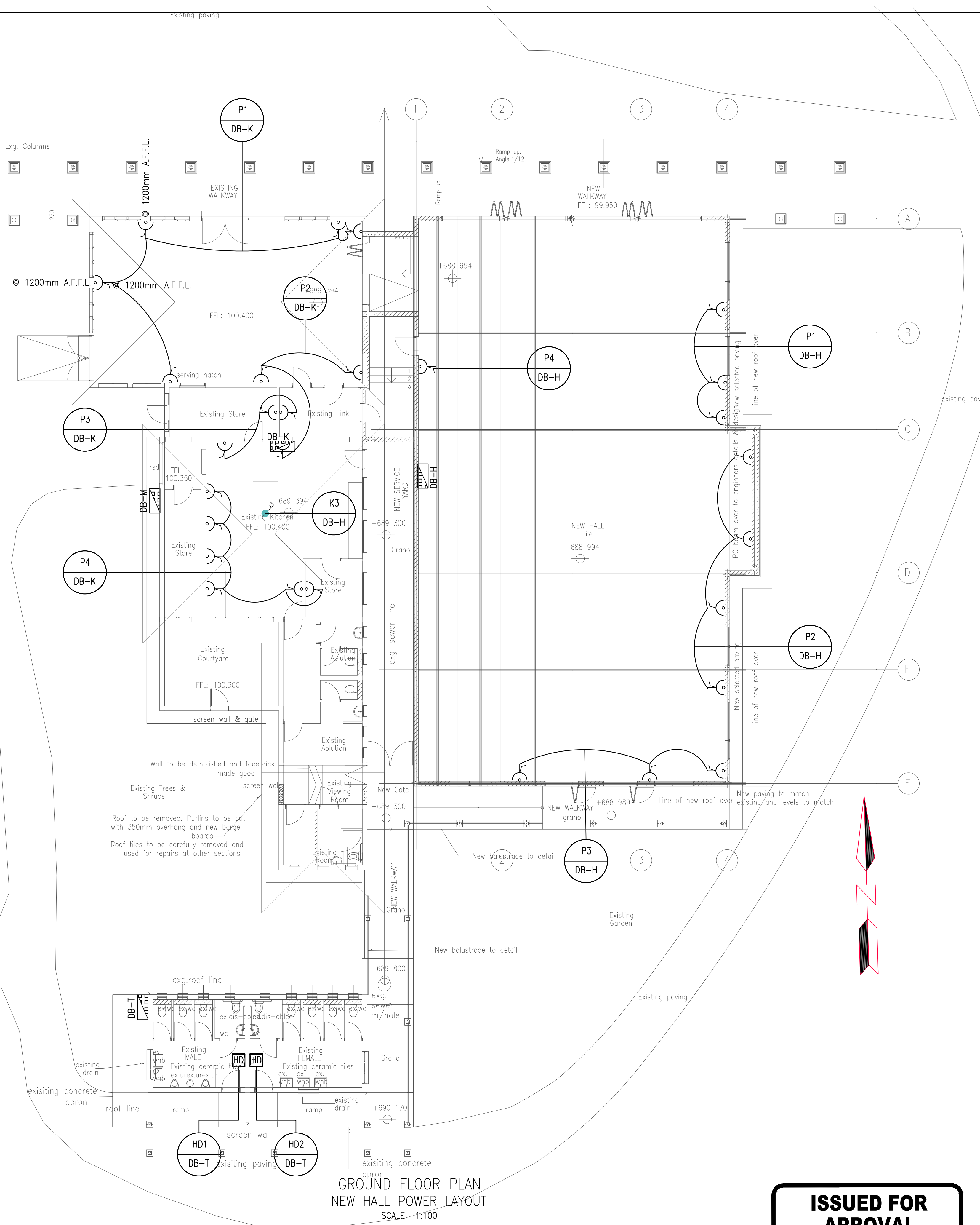
DISCIPLINE
ARCHITECTURAL

CONTRACT NUMBER
KZNBG_AR001

FILE NUMBER
ZA2021_2025

DRAWING NUMBER
ZA2021_2025_SANBI_KZNBG_AR001

ISSUED FOR
CONCEPT & VIABILITY



GROUND FLOOR PLAN
NEW HALL POWER LAYOUT
SCALE: 1:100

ISSUED FOR
APPROVAL

LEGEND

- UPVC SLEEVE (SIZE AS INDICATED)
- 16A 3-PIN SINGLE SOCKET OUTLET, WALL MOUNTED AT 1200mm A.F.F.L.
- 16A 3-PIN DOUBLE SOCKET OUTLET, WALL MOUNTED AT 1200mm A.F.F.L.
- 16A 3-PIN DOUBLE SOCKET OUTLET, WEATHER PROOF (WP) WALL MOUNTED AT 1200mm A.F.F.L.
- 2x 16A 3-PIN SINGLE NORMAL SOCKET OUTLET POWER SKIRTING MOUNTED
- 16A 3-PIN SINGLE DEDICATED SOCKET OUTLET POWER SKIRTING / WALL MOUNTED
- WALL MOUNTED TPN ISOLATOR (SIZE AS INDICATED)
- THREE PHASE 5-PIN SOCKET OUTLET (SIZE AS INDICATED)
- 2 COMPARTMENT 2 COVER POWER SKIRTING
- HAND DRYER, BRUSHED STAINLESS STEEL FISHIN, 298x322x170mm, 7.26Kg, 230V, 14-10W, AUTOMATED SENSOR OPERATED.
- WALL MOUNTED 20A DP ISOLATOR
- DATA ACCESS POINT
- DATA POINT
- TELEPHONE POINT
- ELECTRICAL DISTRIBUTION BOARD
- DATA CABINET
- CIRCUIT NUMBER

CLIENT
SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE

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Biodiversity for Life

South African National Biodiversity Institute
2 CUSSONIA AVENUE, BRUMMERIA
PRIVATE BAG X101
SILVERTON
0184

REV NO.	DATE	DESCRIPTION
A	2021-03-13	ISSUED FOR APPROVAL

REVISIONS

PROJECT CONSULTANT

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DRAWING CHECKS

DESIGNED BY	DESIGN CHECKED BY	DRAWN BY	DRAWING CHECKED BY
F.MPOFU	B.TSHUMA	B.MDLULI	F.MPOFU

APPROVAL CONSULTANT

F.MPOFU

DATE: 2021-10-08
PROJ. REF. NO.: 20140343
THE MASTER FILED AT THE PROJECTNEERS CONSULTING ENGINEERS OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL

PROJECT NAME

THE DESIGN REVIEW, CONSTRUCTION MONITORING AND PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION CENTRE, TOILETS AND REPAIRS TO DEFECTIVE WORK FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWAZULU-NATAL NATIONAL BOTANICAL GARDEN, PIETERMARITZBURG

PROJECT SITE

PIETERMARITZBURG BOTANICAL GARDEN
2 Zwartkop Road, Prestbury, Pietermaritzburg
PORTION 26 OF ERF 3105

SHEET TITLE

NEW HALL-GROUND STOREY FLOOR PLAN, LIGHTING LAYOUT

DISCIPLINE

ELECTRICAL

CONTRACT NUMBER

KZNBG_AR001

FILE NUMBER

A2021_2025

SCALE

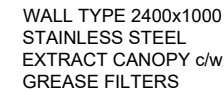
AS INDICATED

DRAWING NUMBER

A2021_2025_SANBI_KZNBG_ELEC_100_A

REVISED

A1



1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS.
2. DO NOT SCALE FROM THE DRAWING, THE CONTRACTOR MUST CHECK AND CONFIRM ALL DIMENSIONS INCLUDING LEVELS ON SITE WITH THE SERVICES ENGINEERS.
3. ANY QUERIES AND/OR DISCREPANCIES MUST BE REFERRED TO THE SERVICES ENGINEER BEFORE MATERIALS ARE ORDERED AND BEFORE EXECUTION ON SITE.

SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE

A	07/03/2022	ISSUED FOR REVIEW.
REV NO.	DATE	DESCRIPTION

REVISIONS

PROJECTNEERS

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DRAWING CHECKS

DESIGNED BY	DESIGN CHECKED BY	DRAWN BY	DRAWING CHECKED BY
S.M.	S. M	I.S.	S. M

APPROVAL CONSULTANT

S. MUTARINGE

DATE	PROJ. REG. NO.	THE MASTER HELD AT THE PROJECT/ENGINEERS CONSULTING MIDRAND OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL
2021-09-03	20130388	

PROJECT NAME

THE DESIGN REVIEW, CONSTRUCTION MONITORING &
PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION
CENTRE, TOILETS & REPAIRS TO DEFECTIVE WORK FOR
THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE
(SANBI) @ KWAZULU-NATAL NATIONAL BOTANICAL GARDEN
PIETERMARITZBURG

PROJECT SITE

PIETERMARITZBURG BOTANICAL GARDEN
2 ZWARTKOP ROAD, PRESTBURY ROAD,
PIETERMARITZBURG, PORTION 26 OF 3105

SHEET TITLE

NEW HALL GROUND FLOOR
KITCHEN VENTILATION LAYOUT
DISCIPLINE

MECHANICAL

CONTRACT NUMBER

FILE NUMBER

SCALE
1:100

DRAWING NUMBER

[illegible]

NOTES

GENERAL NOTES:

- THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS INCLUDING THE SANBI BIODIVERSITY FOR LIFE POLICY AND THE SANBI BIODIVERSITY FOR LIFE ACTION PLAN.
- THE CONTRACTOR MUST HAVE A QUALITY ASSURANCE SYSTEM FOR THE EXECUTION OF THE WORK. THE QUALITY ASSURANCE SYSTEM MUST BE SUBMITTED TO THE SANBI BIODIVERSITY FOR LIFE FOR APPROVAL BEFORE THE START OF THE WORK. THE CONTRACTOR MUST FURNISH A QUALITY CONTROL INSPECTION BEFORE THE COMMENCEMENT OF CONSTRUCTION OF ANY PORTION OF THE WORK. THE INSPECTION REPORTS MUST IMMEDIATELY BE REPORTED TO THE SANBI BIODIVERSITY FOR LIFE.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION OF ANY PORTION OF THE WORK. THE DIMENSIONS SHALL IMMEDIATELY BE REPORTED TO THE SANBI BIODIVERSITY FOR LIFE.
- WORK TO BE DONE TO FULFIL DIMENSIONS ONLY.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION OF ANY PORTION OF THE WORK. THE DIMENSIONS SHALL IMMEDIATELY BE REPORTED TO THE SANBI BIODIVERSITY FOR LIFE.

FOUNDATION NOTES:

- EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.
- FOUNDATIONS TO BE BUILT ON FIRM, WELL COMPACTED SOIL.
- THE ENGINEER MAY ORDER PLATE LOAD TESTS TO BE DONE TO ASCERTAIN THE BEARING CAPACITY OF THE FOUNDATION.
- ASSIGNED SAFE BEARING CAPACITY OF FOUNDATION MATERIAL: 75 kPa.

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH SABS 12005.
- CONCRETE CLASS TO BE AS FOLLOWS:
BLINDING: 15 MPa/18mm
STANDARD: 20 MPa/20mm
THE CONTRACTOR MUST COORDINATE ALL SERVICE ROOMINGS FOR DETAILS AND POSITIONS OF OPENINGS AND STEVES ELECTRICAL MECHANICAL AND OTHER SERVICES.
- THE CONCRETE COVER TO REINFORCING IS AS FOLLOWS:
FOUNDATIONS: 50mm
SUPPACEDS (FROM TOP): 30mm
- THE STRENGTH OF THE CONCRETE COVER BLOCKS SHALL EXCEED THE STRENGTH OF THE CONCRETE OF THE STRUCTURAL ELEMENTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY CAST CONCRETE.
- CONCRETE SHALL BE CURED TO AN APPROVED SPECIFICATION.
- NO BRICK WALLS MAY BE BUILT ON FLOOR SLAB BEAMS.
- WALLS TO BE BUILT ON FLOOR SLAB BEAMS SHALL BE BUILT ON A CONCRETE FOUNDATION.
- 25-35% CHANGERS TO BE FORMED AT ALL EXPOSED CONCRETE CORNERS.
- 250 MICRON DPC TO BE PLACED UNDER ALL SURFACE DECKS.

CLIENT

SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE
SANBI
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South African National Biodiversity Institute
2 CUSSONIA AVENUE, BRUMMERIA
PRIVÉ ESTATE XT01
SANDHURST
2194

PROJECT CONSULTANT

REF. NO.	DATE	DESCRIPTION
R00	2022-03-13	ISSUED FOR DETAIL DESIGN
REVISIONS		

PROJECT CONSULTANT

PROJECTNEERS

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M. NTSOU, N. MDULOSE

APPROVAL CONSULTANT

B. TSHUKA

2022-03-13

THE MASTER PLAN AT THE PROJECTNEERS

ORIGINAL SIGNATURE OF APPROVAL

PROJECT NAME

DESIGN REVIEW, CONSTRUCTION MONITORING AND PROJECT

MANAGEMENT OF THE INCOMPLETE EDUCATION CENTRE, AFRICAN

NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KVAZULU-NATAL

NATIONAL BOTANICAL GARDEN, PIETERMARITZBURG.

PROJECT SITE

KVA ZULU NATAL BOTANICAL GARDENS

SHEET TITLE

COVERED WALKWAY LAYOUT AND DETAILS

GROUP NAME

STRUCTURAL ENGINEERING

CONTRACT NUMBER

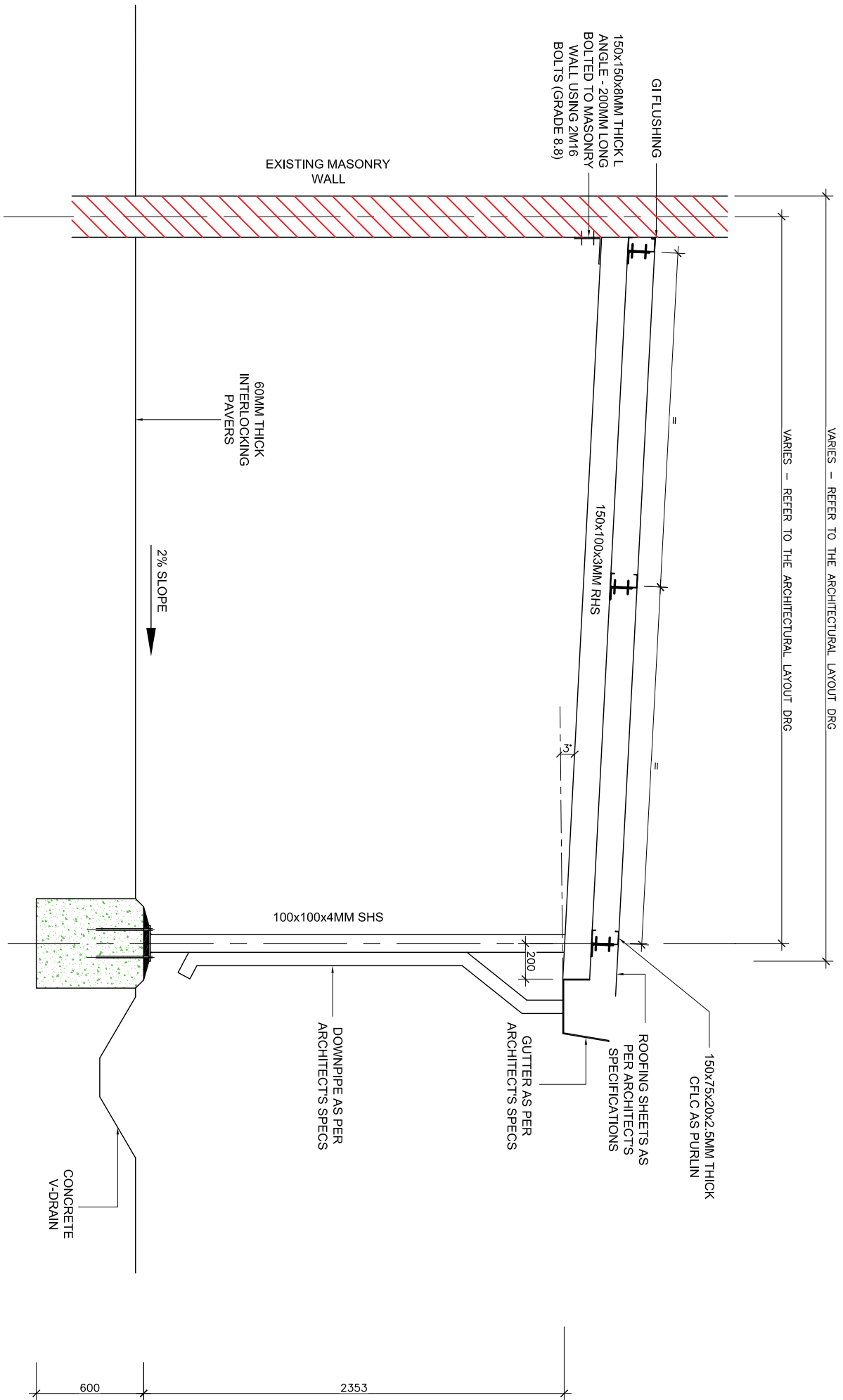
GS00/2020-09

FILE NUMBER

ZK027_2025

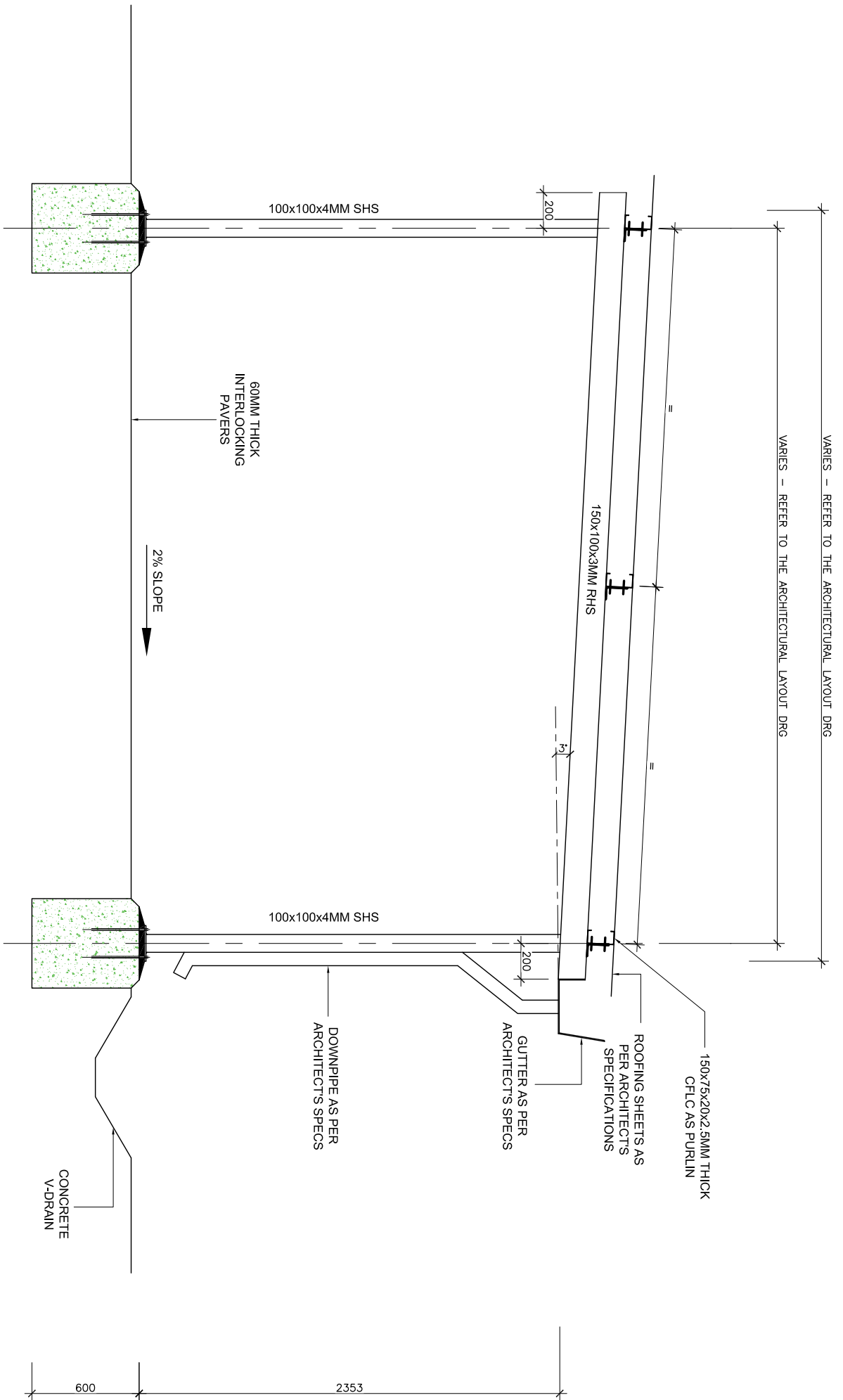
DRAWING NUMBER

PJN_ZA_2017_2025_SANBI_KZNBSG_SE_4000_R00



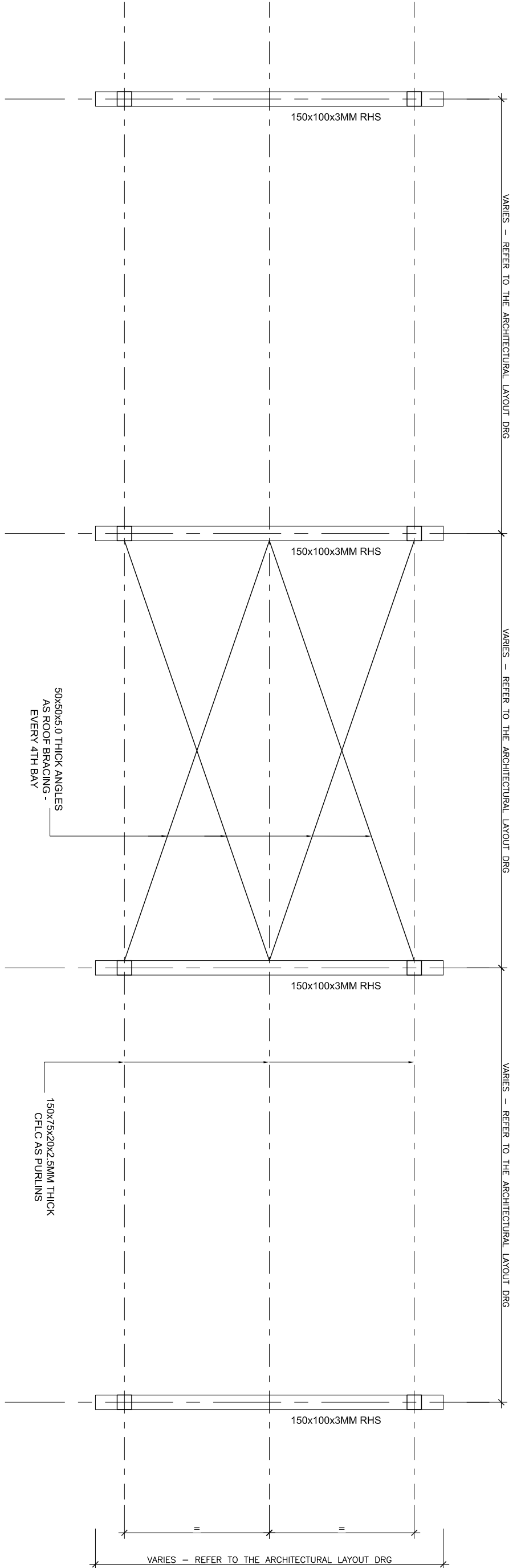
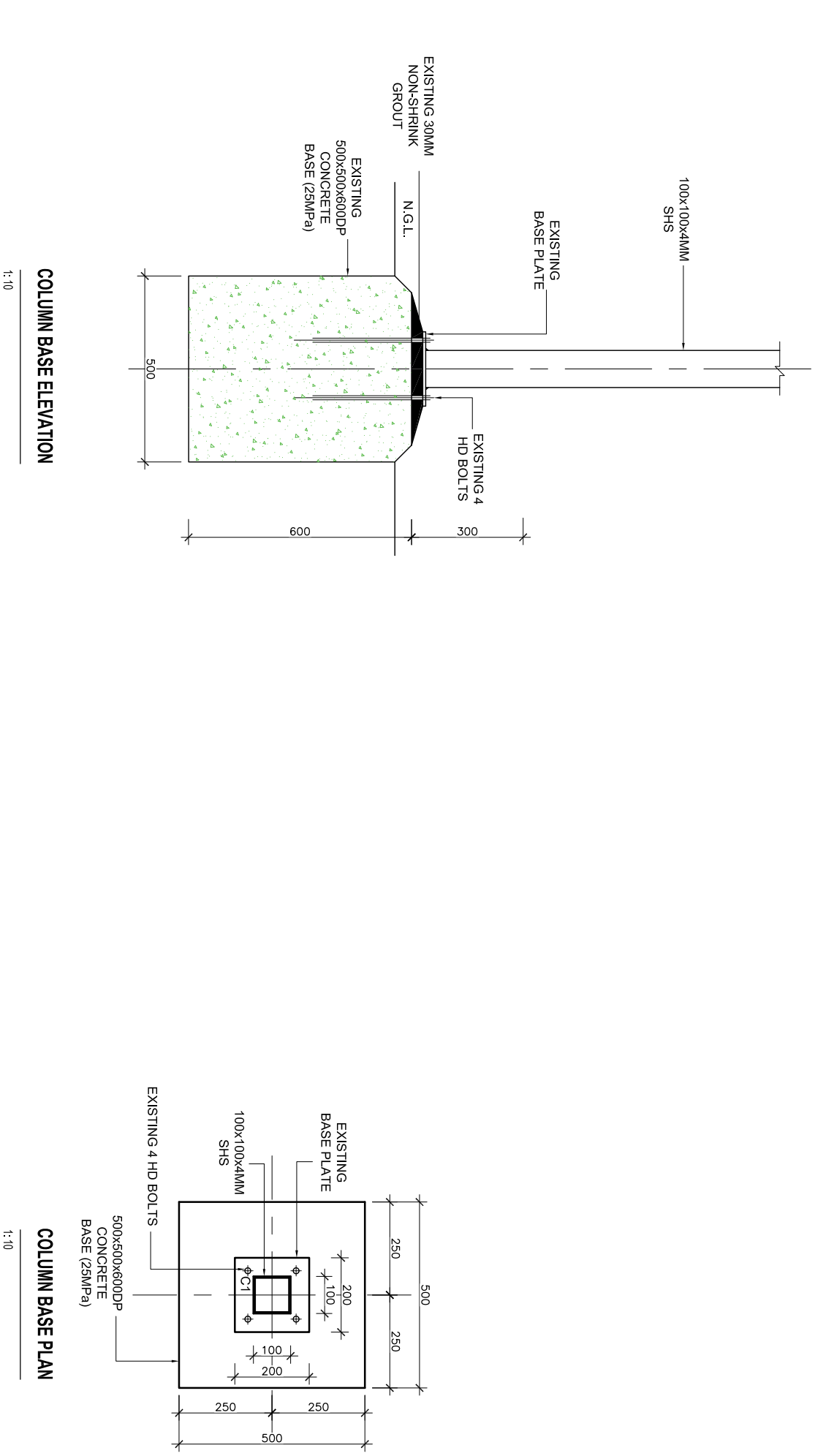
TYPICAL COVERED WALKWAY SECTION (WITH MASONRY WALLS)

N/S



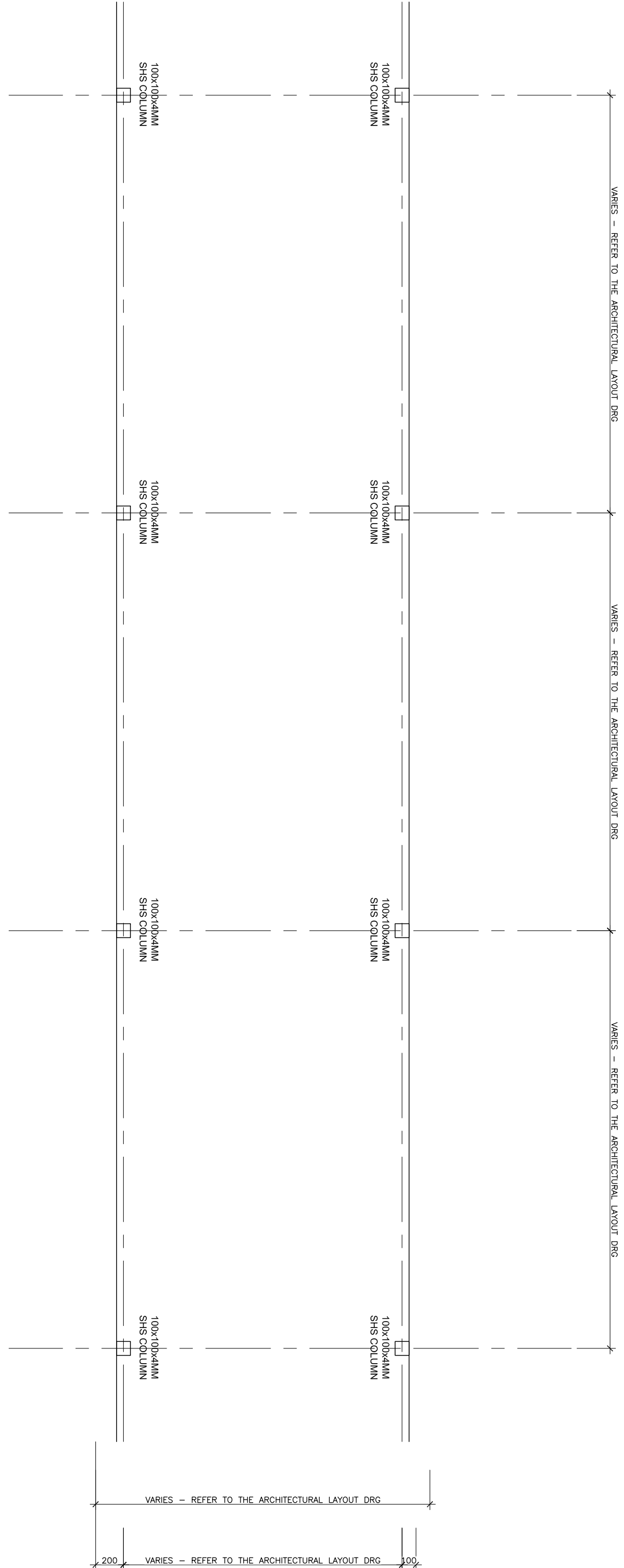
TYPICAL COVERED WALKWAY SECTION (WITHOUT MASONRY WALLS)

N/S



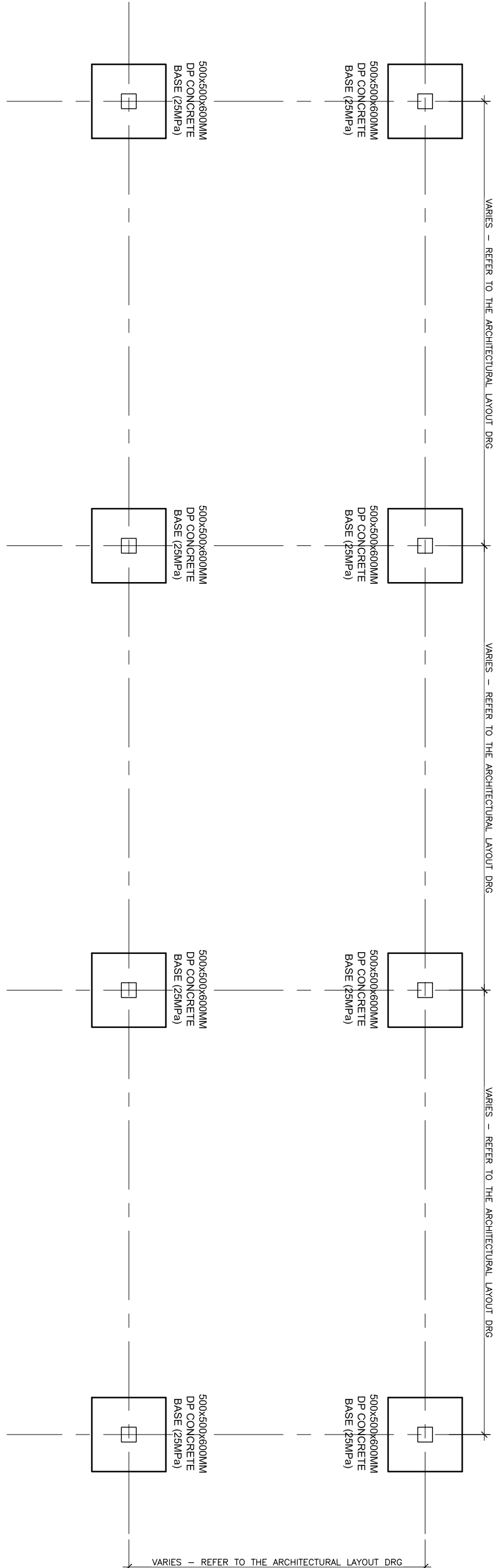
TYPICAL COVERED WALKWAY ROOF LAYOUT PLAN

120



TYPICAL COVERED WALKWAY LAYOUT PLAN

120



TYPICAL COVERED WALKWAY FOUNDATION LAYOUT PLAN

120

ISSUED FOR
DETAIL DESIGN

SITE AREA 397 000 sqm

EXISTING FARCOVERAGE
RESTAURANT 312.1312.1
ENTRANCE GATE 8.68.6
DISPLAY & KIOSK 8.68.6
SHOP 82.82.2
TOILETS 59.759.7
ABLUTIONS 46.546.5
TEA HOUSE 252.252
OFFICES 162.162
POTTING SHED 99.180
CURATORS HOUSE 138.8199
CURATORS GARAGE 45.545.5
WORKERS BUILDINGS 176.176
PREFABRICATED STRUCTURE 133.133
TOTAL 1524.1665.2
PROPOSED
ADDITION TO OFFICES 73.103
NEW WORKSHOP 49.49
NEW HALL 401.420.4
NEW COVERED WALKWAY 90.4
TOTAL 523.633
NEW TOTALS 2047.2298.2
DEMOLITION 180.180

KWAZULU NATAL BOTANICAL GARDENS

BUILDING LEGEND

- A** CURATOR'S RESIDENCE [PHASE 1]
(TO BE REFURBISHED & RENOVATED) 155m²
- B** CURATOR'S GARAGE [PHASE 1]
(46m²)
- C** WORKER'S BUILDING [PHASE 1]
(TO BE REFURBISHED & RENOVATED) 176m²
- D** POTTING SHED [PHASE 1]
(TO BE REFURBISHED & RENOVATED) 184m²
- E** NEW HALL [PHASE 2]
(408m²)
- F** NEW WORKSHOP [PHASE 1] (50m²)
- G** STRUCTURE [PHASE 1]
(to be demolished) 180m²
- H** NEW ADDITIONS TO EXISTING OFFICES [PHASE 1]
(160m²)
- J** EXISTING ABLUTIONS AT TEA ROOM [PHASE 1]
TO BE REFURBISHED & RENOVATED (45m²)
- K** EXISTING TEA ROOM [PHASE 1]
TO BE REFURBISHED & RENOVATED (272m²)

NOTES

GENERAL NOTES:

- THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS INCLUDING THE SANS 1200 STANDARD SPECIFICATIONS.
- THE CONTRACTOR MUST IMPLEMENT A QUALITY ASSURANCE SYSTEM FOR THE EXECUTION OF THE WORK. THE QUALITY MANAGEMENT SYSTEM MUST BE APPROVED BY THE ENGINEER PRIOR TO THE START OF THE WORK. THE CONTRACTOR MUST PERFORM A QUALITY CONTROL INSPECTION BEFORE THE ENGINEER WILL DO ANY INSPECTIONS.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION OF ANY PORTION OF THE WORK. ANY DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
- WORK TO BE DONE TO FIGURED DIMENSIONS ONLY.
- PRODUCTS DIFFERENT TO THOSE SPECIFIED MAY ONLY BE USED WITH THE ENGINEER'S PRIOR WRITTEN APPROVAL.

FOUNDATION NOTES:

- EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.
- FOUNDATIONS TO BE BUILT ON FIRM, WELL COMPACTED SOIL.
- THE ENGINEER MAY ORDER PLATE LOAD TESTS TO BE DONE TO ASCERTAIN THE BEARING CAPACITY OF THE FOUNDATION FOUNDED SURFACE.
- ASSUMED SAFE BEARING CAPACITY OF FOUNDING MATERIAL 75 kPa.

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH SABS 12000.
- CONCRETE CLASS TO BE AS FOLLOWS:
 - STANDARD REINFORCED CONCRETE 15 MPa/19mm
 - BLINDING 30 MPa/19mm
- THE CONTRACTOR MUST CO-ORDINATE ALL SERVICE DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES.
- REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL AND OTHER SERVICES.
- THE CONCRETE COVER TO REINFORCING IS AS FOLLOWS:
 - FOUNDATIONS 40mm
 - SURFACE BEDS (FROM TOC) 30mm
- THE STRENGTH OF THE CONCRETE COVER BLOCKS SHALL EXCEED THE STRENGTH OF CONCRETE OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY LAID CONCRETE.
- CONCRETE SHALL BE CURED TO AN APPROVED SPECIFICATION USING MEMBRANES, MIST SPRAY OR CURING COMPOUND THAT DOES NOT AFFECT ADHESION OR FINISHES.
- NO BRICK WALLS MAY BE BUILT ON FLOOR SLABS, BEAMS, WALLS, ETC. BEFORE THE ELEMENT HAS REACHED THE 28 DAY TARGET STRENGTH. UNLESS APPROVED IN WRITING BY THE ENGINEER.
- 25 x 25 CHAMFERS TO BE FORMED AT ALL EXPOSED CONCRETE CORNERS.
- 250 MICRON DPC TO BE PLACED UNDER ALL SURFACE BEDS.

CLIENT

SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE



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R00 2023-03-01 ISSUED FOR TENDER

REV. NO. DATE DESCRIPTION

REVISIONS

PROJECT CONSULTANT

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DRAWING CHECKS

DATE: 2023-03-01
BY: N. MPOFU
CHECKED BY: S. ZUNGU
DRAWN BY: F. MAROZVA
SCALE: N. NKOSI

APPROVAL CONSULTANT

B. TSHUMA

DATE: 2023-03-01
PROJ. RES. NO.:
THE MASTER VELD AT THE PROJECTNEERS CONSULTING MIDRAND OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL.

PROJECT NAME

THE DESIGN REVIEW, CONSTRUCTION MONITORING AND PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION CENTRE, TOILETS AND REPAIRS TO DEFECTIVE WORK FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWAZULU-NATAL BOTANICAL GARDEN, PIETERMARITZBURG

PROJECT SITE
PIETERMARITZBURG BOTANICAL GARDEN
2 Zwartkop Road, Pietermaritzburg
PORTION 26 OF ERF 3105

SHEET TITLE

SITE PLAN

DISCIPLINE

ARCHITECTURAL

CONTRACT NUMBER

KZNBG_AR001

FILE NUMBER

ZA2021_2025

DRAWING NUMBER

2021_2025_SANBI_KZNBG_AR000_R00

ISSUED FOR TENDER

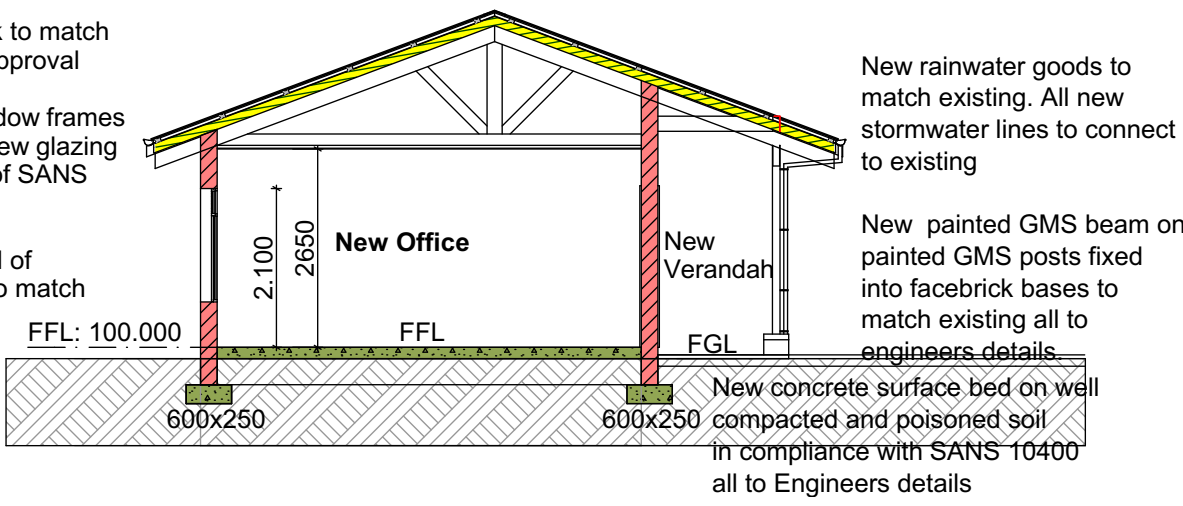
A1

New GRS Corrugated roof sheeting to match existing on painted GMS roof trusses with approved sisalation all to engineers details in compliance with SANS 10400
New roof pitch to match existing
Min. 0.5mm sheet thickness to comply with building regulations.
Sheet colour: Colorplus Rain Forest

All existing timber door frames to be rubbed down, filled and painted with 2 coats Eggshell Enamel - Colour to be confirmed.
New selected facebrick to match existing to Architects approval

New painted GMS window frames to match existing. All new glazing to comply with Part N of SANS 10400

New finished floor level of concrete surface bed to match existing



A-A Building Section

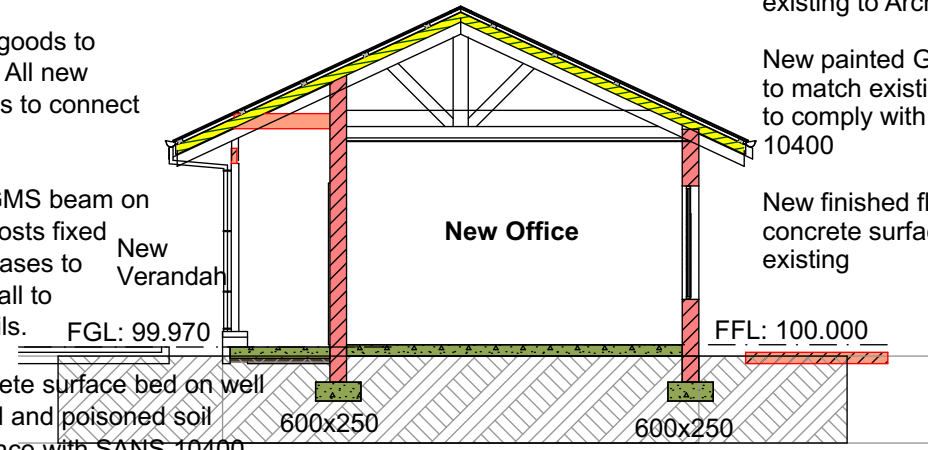
New GRS Corrugated roof sheeting to match existing on painted GMS roof trusses with approved sisalation all to engineers details in compliance with SANS 10400
New roof pitch to match existing
Min. 0.5mm sheet thickness to comply with building regulations.
Sheet colour: Colorplus Rain Forest

All existing timber door frames to be rubbed down, filled and painted with 2 coats Eggshell Enamel - Colour to be confirmed

New rainwater goods to match existing. All new stormwater lines to connect to existing

New painted GMS beam on painted GMS posts fixed into facebrick bases to match existing all to engineers details.

New concrete surface bed on well compacted and poisoned soil in compliance with SANS 10400 all to Engineers details



B-B Building Section

New selected facebrick to match existing to Architects approval
New painted GMS window frames to match existing. All new glazing to comply with Part N of SANS 10400
New finished floor level of concrete surface bed to match existing

Building Section

1:100

REPAIR & REFURBISHMENT SCHEDULE	
1	All existing timber doors and door frames to be stripped, rubbed down, and re-painted 1 coat primer and 2 coats non-drip enamel. Colour to be confirmed.
2	All existing timber posts, beams, fascia boards and exposed rafters to be stripped, rubbed down, and re-painted 1 coat primer and 2 coats non-drip enamel. Colour to be confirmed.
3	All existing facebrick walls to be washed down, scum and mud scrubbed off and made good.
4	All existing internal painted walls rubbed down, dust wiped off, all peeling paint scraped off and painted one coat undercoat and 2 final finishing coats. Colour to be confirmed.
5	Existing brick pavers along passages pressure cleaned.

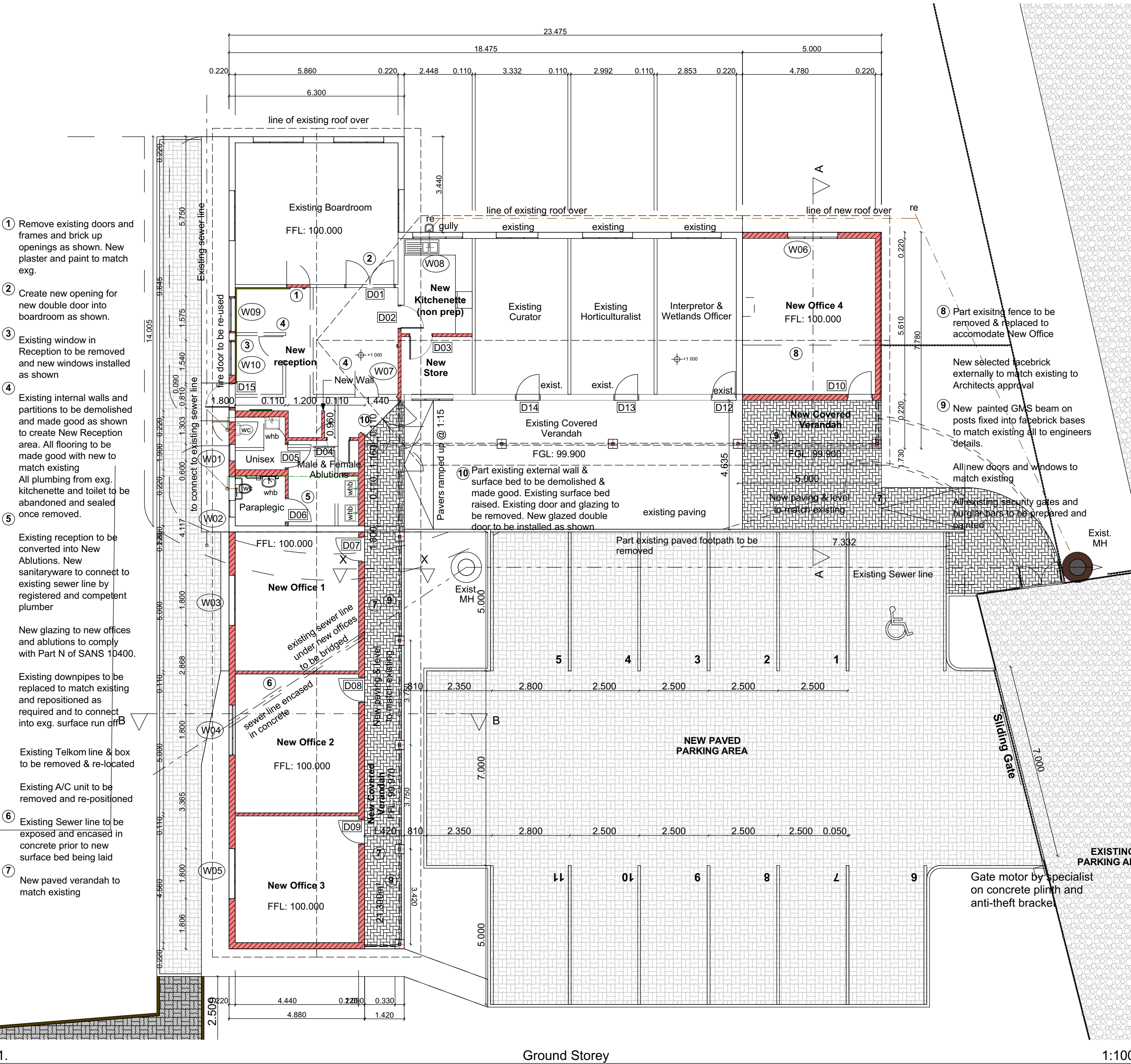
GENERAL USE WHB'S - 2 NO. OFF
VAAL "WEAVER" 575 x 455mm RECTANGULAR BASIN WITH SINGLE SEMI-PUNCHED TAPHOLE FOR COLD WATER ONLY.
FIXED TO WALL (SEE OPTION 2)
COLOUR: WHITE
PRODUCT CODE: 704201
TAP: COBRA TUDOR ONE HOLE PILLAR TAP (COLD INDICATOR)
PRODUCT CODE: TD-212-15CP
COBRA 340 CHROME PLATED BOTTLE TRAP

UNISEX ABLUTIONS: 1 NO. OFF
VAAL "WEAVER" 575 x 455mm RECTANGULAR BASIN WITH SINGLE SEMI-PUNCHED TAPHOLE FOR COLD WATER ONLY.
FIXED TO WALL (SEE OPTION 2)
COLOUR: WHITE
PRODUCT CODE: 704201
TAP: COBRA TUDOR ONE HOLE PILLAR TAP (COLD INDICATOR)
PRODUCT CODE: TD-212-15CP
VAAL "HIBISCUS ELITE" CLOSE COUPLED SUITE 90° OUTLET OPEN RIM WASHDOWN PAN.
COLOUR: WHITE
PRODUCT CODE: 772402

KITCHENETTE: 1 NO. OFF
SINK: FRANKIE QUINLINE DBL BOWL SINK (CODE: CLX 621-120)
TAP: FRANKIE PROJECTLINE CHROME SWIVEL MIXER (CODE: 1150021)

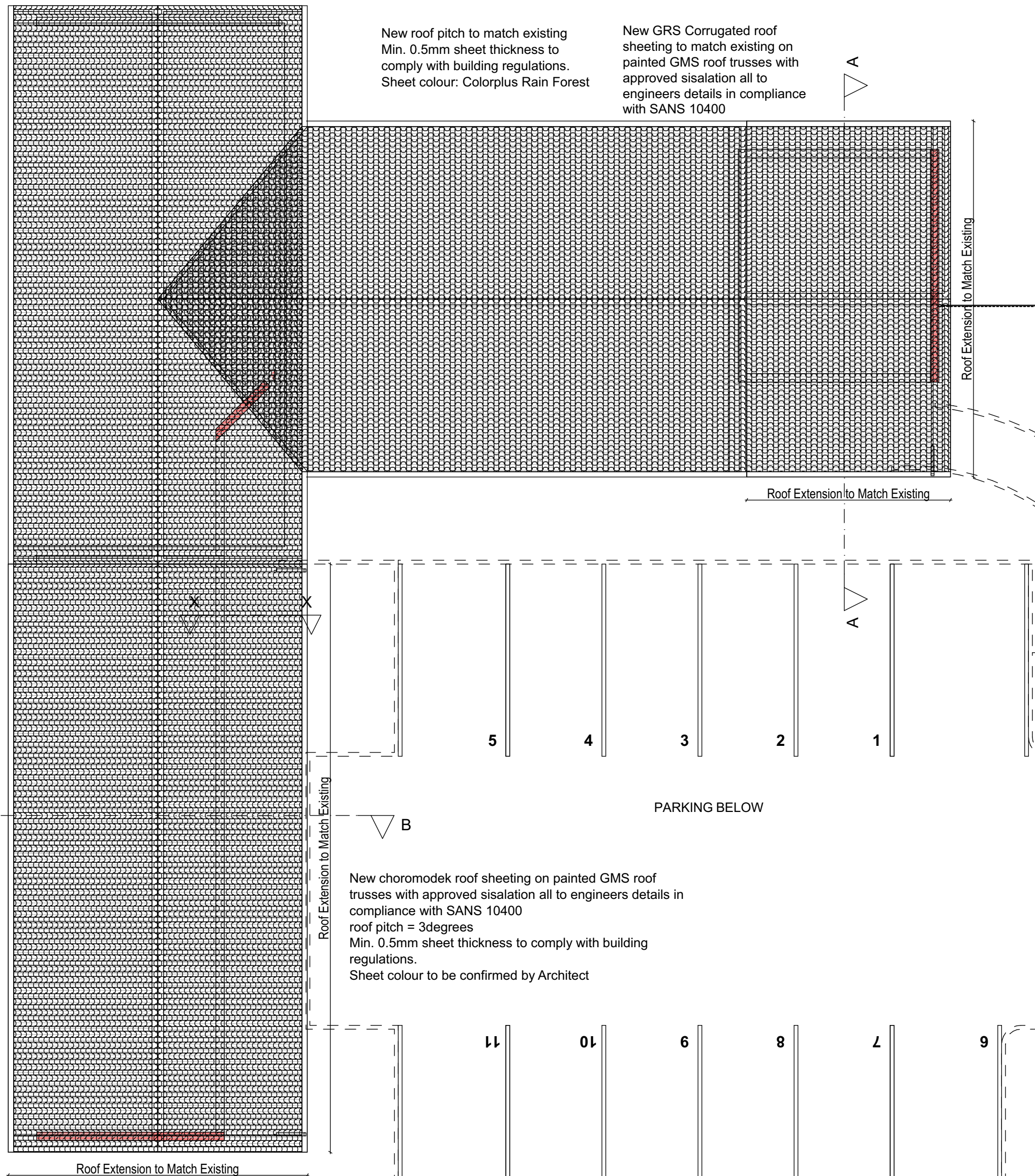
PARAPLEGIC: 1 NO. OFF
VAAL "PROTEA PARAPLEGIC" LOW LEVEL SUITE (CODE 7502), 9 LITRE CISTERN (CODE 710539)
SUPPLIED WITH DOUBLE FLAP TOILET SEAT, FITMENTS AND FLUSH PIPE ELBOW
PURPOSE MADE C.P. SIDE FLUSH LEVER MOUNTED ON WALL ADJACENT TO CISTERN (LEFT HAND SIDE)
WATER CLOSET COLOUR: WHITE
150 x 150 CERAMIC TOILET ROLL HOLDER
VAAL "HIBISCUS" BASIN WALL HUNG LAVATORY BASIN WITH SINGLE TAP HOLE
WHB COLOUR: WHITE
OUTLET: COBRA 301-32 BASIN WASTE WITH 309-32 ANTI-THEFT PLUG CHROME PLATED AND COBRA 340 CHROME PLATED BOTTLE TRAP
TAP: COBRA 305-21 ELBOW ACTION PILLAR TAP - COLD WATER SUPPLY ONLY

Sanware Specification



1. Ground Storey

1:100



Roof Plan

1:100

GENERAL NOTES:

- THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS INCLUDING THE SANS 1200 STANDARD SPECIFICATIONS.
- THE CONTRACTOR MUST IMPLEMENT A QUALITY ASSURANCE SYSTEM FOR THE EXECUTION OF THE WORK. THE QUALITY MANAGEMENT SYSTEM MUST BE APPROVED BY THE ENGINEER PRIOR TO THE START OF THE WORK. THE CONTRACTOR MUST PERFORM A QUALITY CONTROL INSPECTION BEFORE THE ENGINEER WILL DO ANY INSPECTIONS.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION OF ANY PORTION OF THE WORK. ANY DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
- WORK TO BE DONE TO FIGURED DIMENSIONS ONLY.
- PRODUCTS DIFFERENT TO THOSE SPECIFIED MAY ONLY BE USED WITH THE ENGINEER'S PRIOR WRITTEN APPROVAL.

FOUNDATION NOTES:

- EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.
- FOUNDATIONS TO BE BUILT ON FIRM, WELL COMPACTED SOIL.
- THE CONTRACTOR MAY ORDER PLATE LOAD TESTS TO BE DONE TO ASCERTAIN THE BEARING CAPACITY OF THE FOUNDATION FOUNDING SURFACE.
- ASSUMED SAFE BEARING CAPACITY OF FOUNDING MATERIAL 75 kPa.

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH SABS 1200G.
- CONCRETE CLASS TO BE AS FOLLOWS:
BLINDING STANDARD REINFORCED CONCRETE 15 MPa/19mm
30 MPa/19mm
- THE CONTRACTOR MUST CO-ORDINATE ALL SERVICE DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL AND OTHER SERVICES.
- THE CONCRETE COVER TO REINFORCING IS AS FOLLOWS:
FOUNDATIONS 40mm
SURFACE BEDS (FROM TOC) 30mm
- THE STRENGTH OF THE CONCRETE COVER BLOCKS SHALL EXCEED THE STRENGTH OF CONCRETE OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY LAID CONCRETE.
- CONCRETE SHALL BE CURED TO AN APPROVED SPECIFICATION USING MEMBRANES, MIST SPRAY OR CURING COMPOUND THAT DOES NOT AFFECT ADHESION OR FINISHES.
- NO BRICK WALLS MAY BE BUILT ON FLOOR SLABS, BEAMS, WALLS, ETC. BEFORE THE ELEMENT HAS REACHED THE 28 DAY TARGET STRENGTH, UNLESS APPROVED IN WRITING BY THE ENGINEER.
- 25 x 25 CHAMFERS TO BE FORMED AT ALL EXPOSED CONCRETE CORNERS.
- 250 MICRON DPC TO BE PLACED UNDER ALL SURFACE BEDS.

CLIENT

SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE
SANBI
Biodiversity for Life
South African National Biodiversity Institute
2 CUSSONIA AVENUE, BRUMMERIA
PRIVATE BAG X101
SILVERTON
0184

REVISIONS

REV NO.	DATE	DESCRIPTION
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APPROVAL CONSULTANT

B. TSHUMA

2023-03-01 THE MASTER HELD AT THE PROJECTNEERS CONSULTING MIDRAND OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL.

PROJECT NAME

THE DESIGN REVIEW, CONSTRUCTION MONITORING AND PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION CENTRE, TOILETS AND REPAIRS TO DEFECTIVE WORK FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWAZULU-NATAL NATIONAL BOTANICAL GARDEN, PIETERMARITZBURG

PROJECT SITE

PIETERMARITZBURG BOTANICAL GARDEN
2 Zwartkop Road, Pietermaritzburg
PORTION 26 OF ERF 3105

SHEET TITLE

OFFICES: PLANS & SECTIONS

DISCIPLINE

ARCHITECTURAL

CONTRACT NUMBER

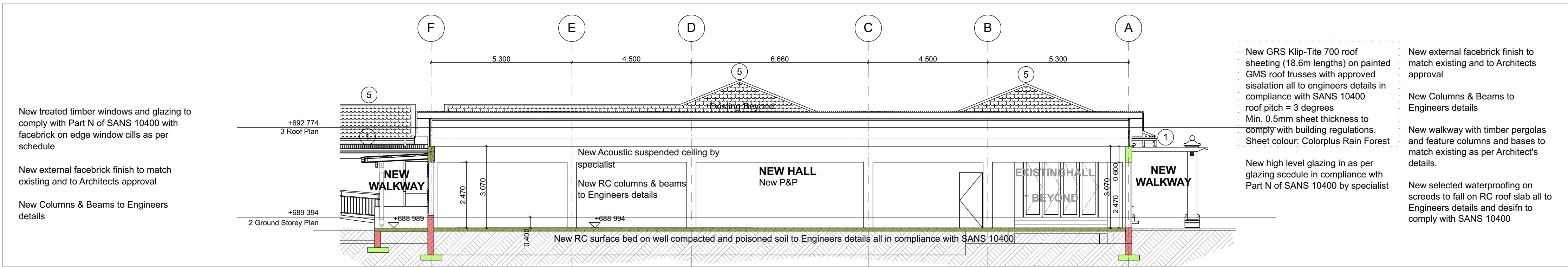
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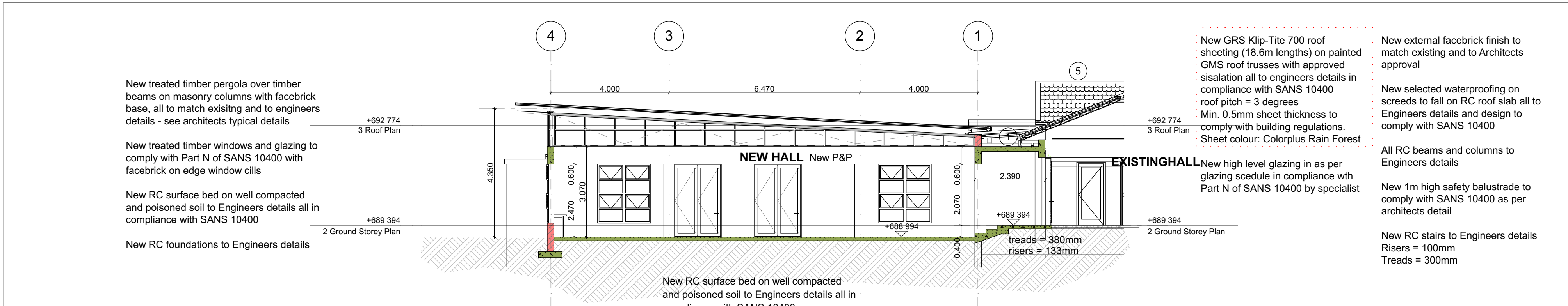
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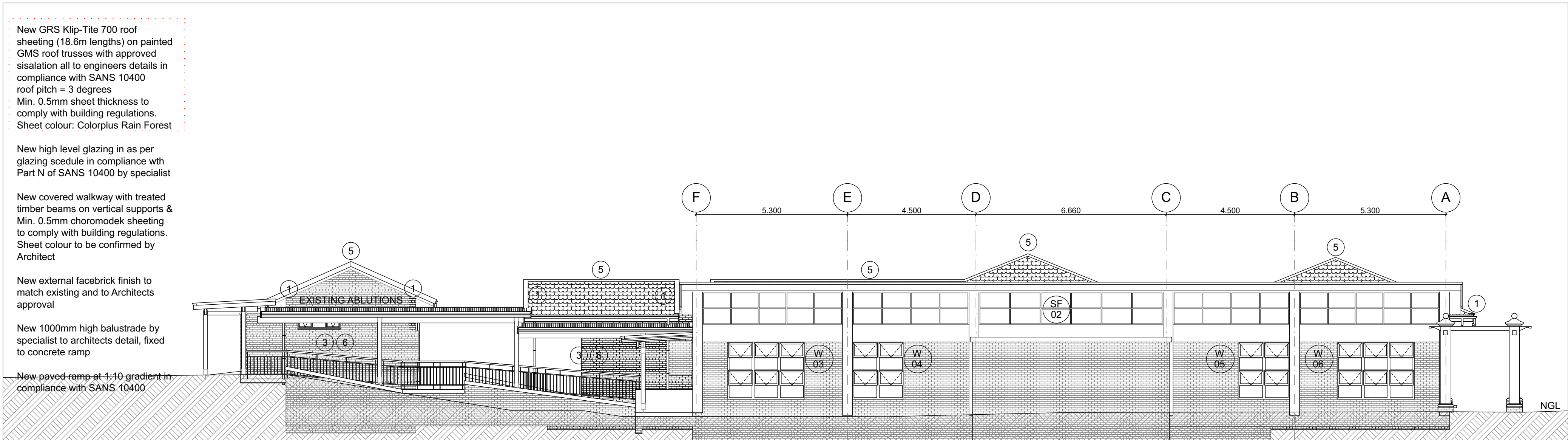
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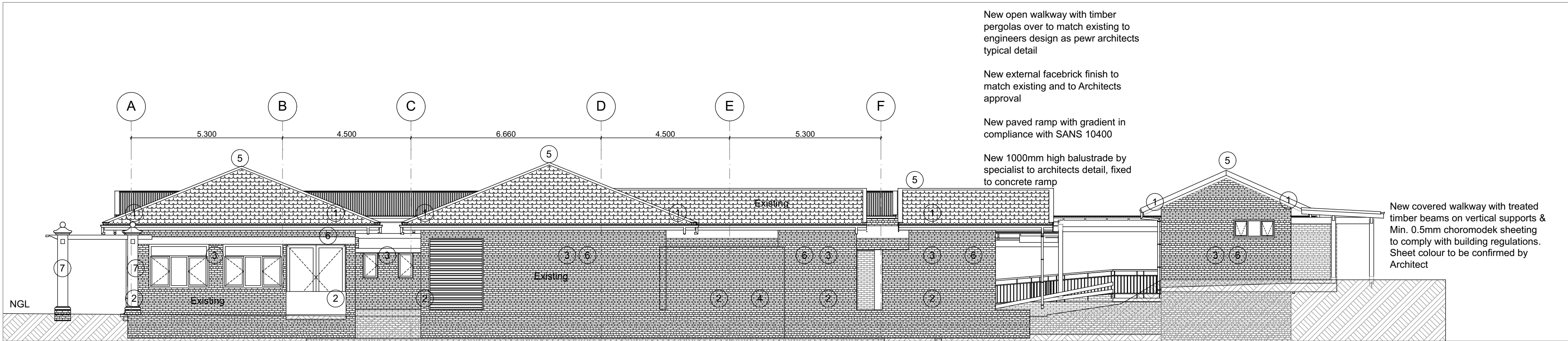
B Section B-B 1:100



E Section E-E 1:100



East Elevation 1:100



West Elevation 1:100

AFAFA DEVIATIONS 15.05.2017	
REPAIR & REFURBISHMENT SCHEDULE	
1	Replace all existing asbestos gutters and downpipes with new gutters and downpipes in positions to match existing.
2	Pressure wash paving outside
3	Scrub wash Face Brick walls outside with a non-metal brush using a household detergent. DO NOT pressure wash walls. Add paving that is missing/ lift sunken paving and replace damaged paving to match existing
4	Remove existing roof tiles carefully without breaking and set aside for re-use.
5	Remove all existing trusses and replace with new approved pre-fabricated timber trusses to match existing roof pitch and overall design.
6	All roof and ridge tiles to be carefully washed with household detergent and re-instated.
7	Install new underlay and insulation.
8	Install new fascia boards to protect cut ends of truss and overhangs (none existing) and new barge boards.
9	Replace all existing asbestos gutters and downpipes with new gutters and downpipes in positions to match existing.
10	Branding to be replaced to match existing. New 6mm gypsum board fixed to branding with 76mm coved gypsum cornices and timber cover strips to be installed and painted.
11	Clean all mortar joints and perpend with a non-metal brush
12	Fix/repair and paint pergola's and columns colour to architect

NOTES

GENERAL NOTES:

- THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS INCLUDING THE SANS 1200 STANDARD SPECIFICATIONS.
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- WORK TO BE DONE TO FIGURED DIMENSIONS ONLY.
- PRODUCTS DIFFERENT TO THOSE SPECIFIED MAY ONLY BE USED WITH THE ENGINEER'S PRIOR WRITTEN APPROVAL.

FOUNDATION NOTES:

- EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.
- FOUNDATIONS TO BE BUILT ON FIRM, WELL COMPACTED SOIL.
- THE ENGINEER MAY ORDER PLATE LOAD TESTS TO BE DONE TO ASCERTAIN THE BEARING CAPACITY OF THE FOUNDATION FOUNDING SURFACE.
- ASSUMED SAFE BEARING CAPACITY OF FOUNDING MATERIAL 75 MPa.

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH SABS 1200G.
- CONCRETE CLASS TO BE AS FOLLOWS:
BLINDING STANDARD REINFORCED CONCRETE 15 MPa/19mm 30 MPa/19mm
- THE CONTRACTOR MUST CO-ORDINATE ALL SERVICE DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL AND OTHER SERVICES.
- THE CONCRETE COVER TO REINFORCING IS AS FOLLOWS:
FOUNDATIONS 40mm
SURFACE BEDS (FROM TOP) 30mm
- THE STRENGTH OF THE CONCRETE COVER BLOCKS SHALL EXCEED THE STRENGTH OF CONCRETE OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY LAID CONCRETE.
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- NO BRICK WALLS MAY BE BUILT ON FLOOR SLABS, BEAMS, WALLS, ETC. BEFORE THE ELEMENT HAS REACHED THE 28 DAY TARGET STRENGTH, UNLESS APPROVED IN WRITING BY THE ENGINEER.
- 25 x 25 CHAMFERS TO BE FORMED AT ALL EXPOSED CONCRETE CORNERS.
- 250 MICRON DPC TO BE PLACED UNDER ALL SURFACE BEDS.

CLIENT

SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE



South African National Biodiversity Institute

2 CUSSONIA AVENUE, BRUMMERIA
PRIVATE BAG X101
SILVERTON
0184

R00 2023-03-01 ISSUED FOR TENDER

REV NO. DATE DESCRIPTION

REVISIONS

PROJECT CONSULTANT

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DRAWING CHECKS
N. MPOFU S. ZUNGU F. MAROZVA N. NKOSI

APPROVAL CONSULTANT

B. TSHUMA

2023-03-01 THE MASTER HELD AT THE PROJECTNEERS CONSULTING MIDRAND OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL

PROJECT NAME

THE DESIGN REVIEW, CONSTRUCTION MONITORING AND PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION CENTRE, TOILETS AND REPAIRS TO DEFECTIVE WORK FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWAZULU-NATAL NATIONAL BOTANICAL GARDEN, PIETERMARITZBURG

PROJECT SITE
PIETERMARITZBURG BOTANICAL GARDEN
2 Zwartkop Road, Pietermaritzburg, Pietermaritzburg
PORTION 26 OF ERF 3105

SHEET TITLE
NEW HALL SECTIONS AND ELEVATIONS

DISCIPLINE
ARCHITECTURAL

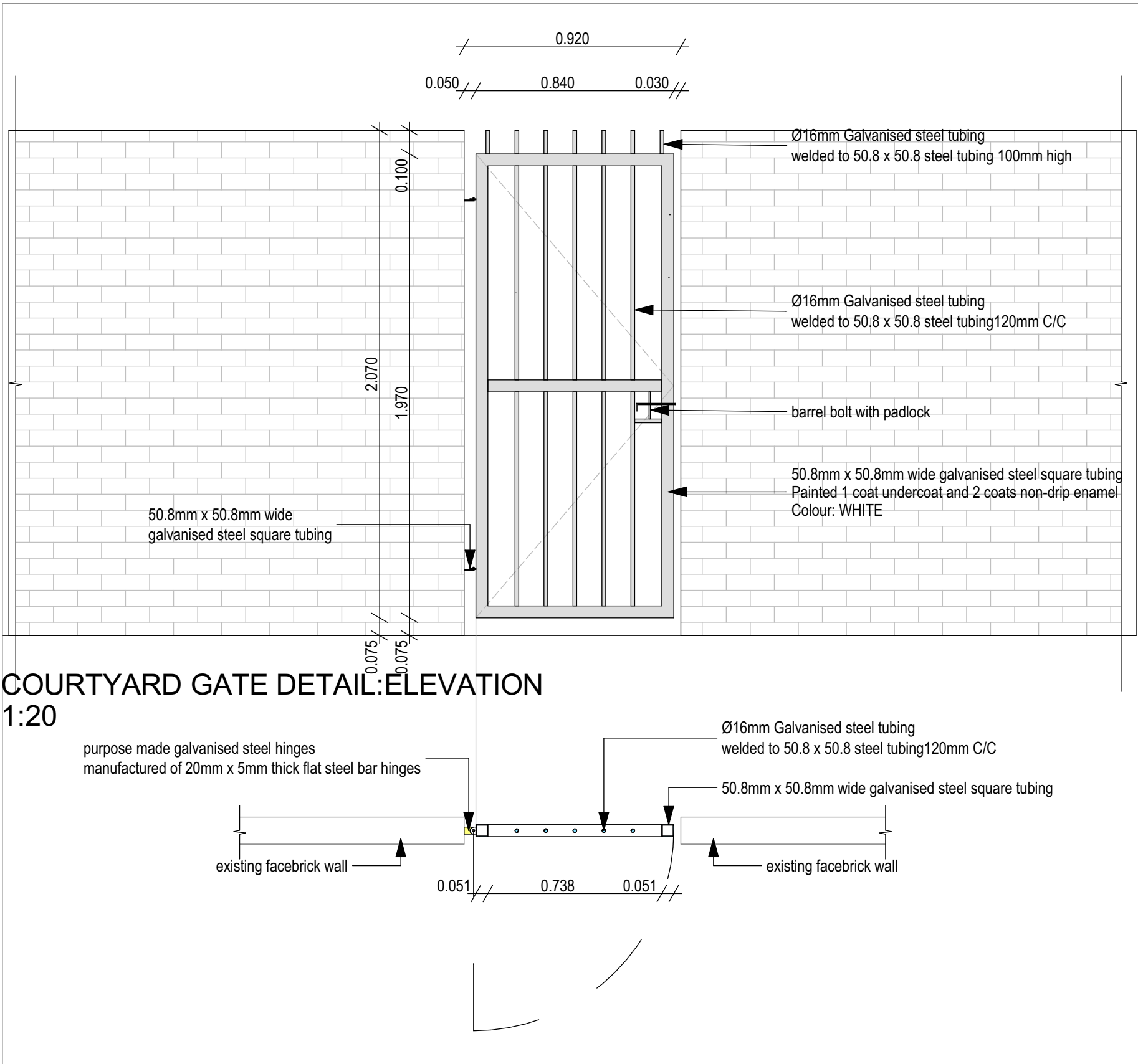
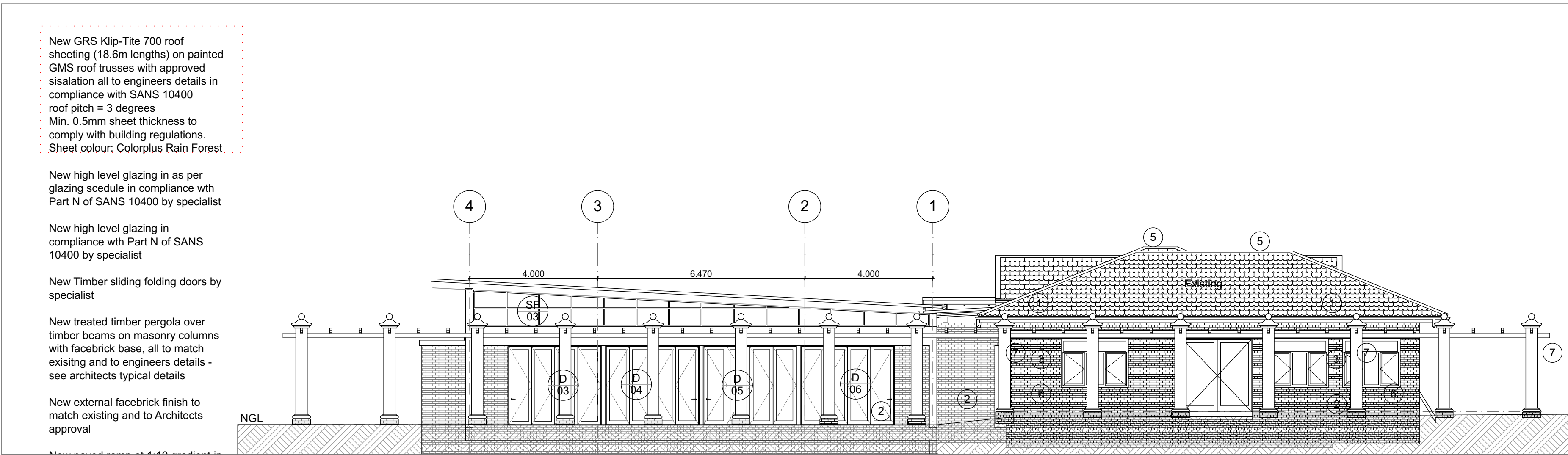
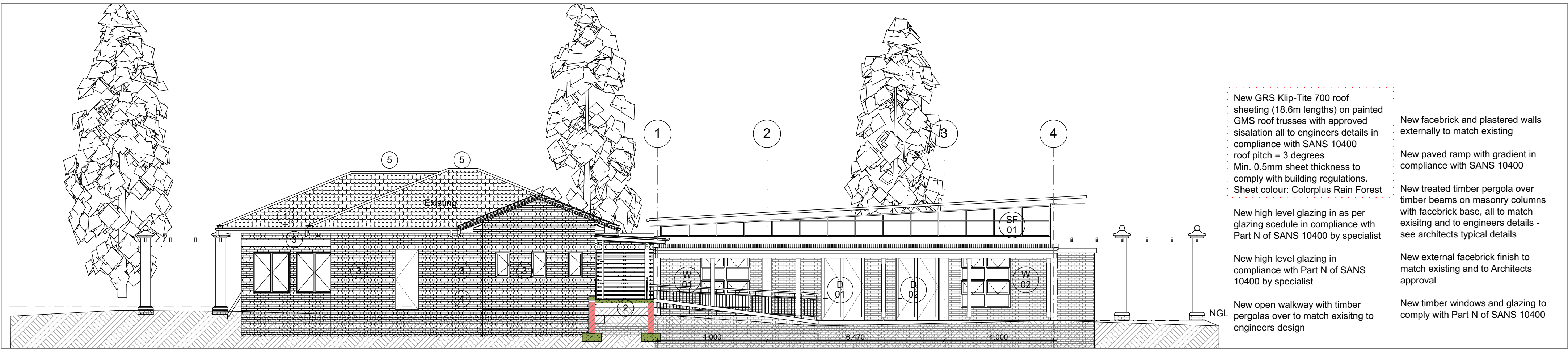
CONTRACT NUMBER
KZNBG_AR001

FILE NUMBER
ZA2021_2025

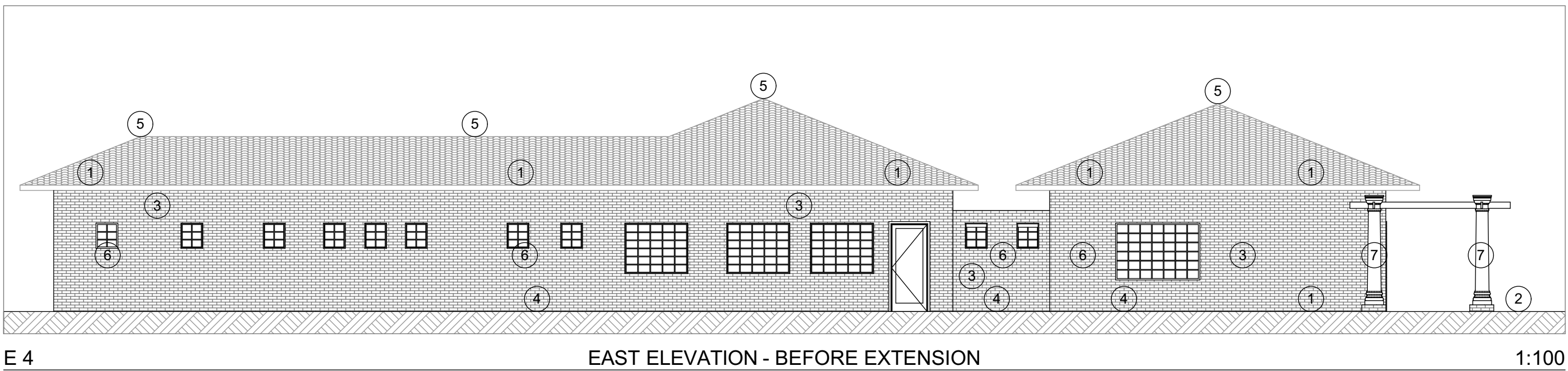
DRAWING NUMBER
ZA2021_2025_SANBI_KZNBG_AR002_R00

ISSUED FOR TENDER

1:100




Courtyard Gate Detail 1:20



AFAFA DEVIATIONS 15.05.2017	
REPAIR & REFURBISHMENT SCHEDULE, COURTYARD	
1	Replace all existing asbestos gutters and downpipes with new gutters and downpipes in positions to match existing.
2	Pressure wash paving outside
3	Scrub wash Face Brick walls outside with a non-metal brush using a household detergent. DO NOT pressure wash walls. Add paving that is missing/ lift sunken paving and replace damaged paving to match existing
4	Remove existing roof tiles carefully without breaking and set aside for re-use.
5	Remove all existing trusses and replace with new approved pre-fabricated timber trusses to match existing roof pitch and overall design.
	All roof and ridge tiles to be carefully washed with household detergent and re-instated.
	Install new underlay and insulation.
	Install new fascia boards to protect cut ends of truss and overhangs (none existing) and new barge boards.
	Replace all existing asbestos gutters and downpipes with new gutters and downpipes in positions to match existing.
	Branding to be replaced to match existing. New 6mm gypsum board fixed to brandering with 76mm coved gypsum cornices and timber cover strips to be installed
6	Grout all timber joints and perpend with a non-metal brush
7	Fix/repair and paint pergola's and columns colour to architect
8	Scrape off ALL loose paint, sand down all surfaces, prime and repaint 2 coats PVA. Colour: White

GENERAL NOTES:	
1.	THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS INCLUDING THE SANS 1200 STANDARD SPECIFICATIONS.
2.	THE CONTRACTOR MUST IMPLEMENT A QUALITY ASSURANCE SYSTEM FOR THE EXECUTION OF THE WORK. THE QUALITY MANAGEMENT SYSTEM MUST BE APPROVED BY THE ENGINEER PRIOR TO THE START OF THE WORK. THE CONTRACTOR MUST PERFORM A QUALITY CONTROL INSPECTION BEFORE THE ENGINEER WILL DO ANY INSPECTIONS.
3.	THE CONTRACTOR SHALL CHECK ALL DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION OF ANY PORTION OF THE WORK. ANY DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
4.	WORK TO BE DONE TO FIGURED DIMENSIONS ONLY.
5.	PRODUCTS DIFFERENT TO THOSE SPECIFIED MAY ONLY BE USED WITH THE ENGINEER'S PRIOR WRITTEN APPROVAL.
FOUNDATION NOTES:	
1.	EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.
2.	FOUNDATIONS TO BE BUILT ON FIRM, WELL COMPACTED SOIL.
3.	THE ENGINEER MAY ORDER PLATE LOAD TESTS TO BE DONE TO ASCERTAIN THE BEARING CAPACITY OF THE FOUNDATION FOUNDING SURFACE.
4.	ASSUMED SAFE BEARING CAPACITY OF FOUNDING MATERIAL 75 kPa.
CONCRETE NOTES:	
1.	ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH SABS 1200G.
2.	CONCRETE CLASS TO BE AS FOLLOWS:
	BLINDING 15 MPa/19mm
	STANDARD REINFORCED CONCRETE 30 MPa/19mm
3.	THE CONTRACTOR MUST CO-ORDINATE ALL SERVICE DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL AND OTHER SERVICES.
4.	THE CONCRETE COVER TO REINFORCING IS AS FOLLOWS:
	FOUNDATIONS 40mm
	SURFACE BEDS (FROM TOC) 30mm
5.	THE STRENGTH OF THE CONCRETE COVER BLOCKS SHALL EXCEED THE STRENGTH OF CONCRETE OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED.
6.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY LAID CONCRETE.
7.	CONCRETE SHALL BE CURED TO AN APPROVED SPECIFICATION USING MEMBRANES, MIST SPRAY OR CURING COMPOUND THAT DOES NOT AFFECT ADHESION OR FINISHES.
8.	NO BRICK WALLS MAY BE BUILT ON FLOOR SLABS, BEAMS, WALLS, ETC. BEFORE THE ELEMENT HAS REACHED THE 28 DAY TARGET STRENGTH, UNLESS APPROVED IN WRITING BY THE ENGINEER.
9.	25 x 25 CHAMFERS TO BE FORMED AT ALL EXPOSED CONCRETE CORNERS.
10.	250 MICRON DPC TO BE PLACED UNDER ALL SURFACE BEDS.

CLIENT	
SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE	
	
South African National Biodiversity Institute	
2 CUSSONIA AVENUE, BRUMMERIA	
PRIVATE BAG X101	
SILVERTON 0184	

REV NO.	DATE	DESCRIPTION
R00	2023-03-01	ISSUED FOR TENDER

REVISIONS	
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PROJECT CONSULTANT	
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PROJECTNEERS

PROJECTNEERS CONSULTING ENGINEERS
& PROJECT MANAGERS
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DRAWING CHECKS	DESIGNED BY	CHECKED BY	APPROVED BY
N. MPOFU	S. ZUNGU		F. MAROZVA N. NKOSI

APPROVAL CONSULTANT	
B. TSHUMA	

DATE	REV. NO.	DESCRIPTION
2023-03-01	01	THE MASTER HELD AT THE PROJECTNEERS CONSULTING MIDRAND OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL.

PROJECT NAME	
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THE DESIGN REVIEW, CONSTRUCTION MONITORING AND PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION CENTRE, TOILETS AND REPAIRS TO DEFECTIVE WORK FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWAZULU-NATAL NATIONAL BOTANICAL GARDEN, PIETERMARITZBURG

PROJECT SITE
PIETERMARITZBURG BOTANICAL GARDEN
2 Zwartkop Road, Pietermaritzburg, Pietermaritzburg
PORTION 26 OF ERF 3105

SHEET TITLE
NEW HALL ELEVATIONS & GATE DETAIL

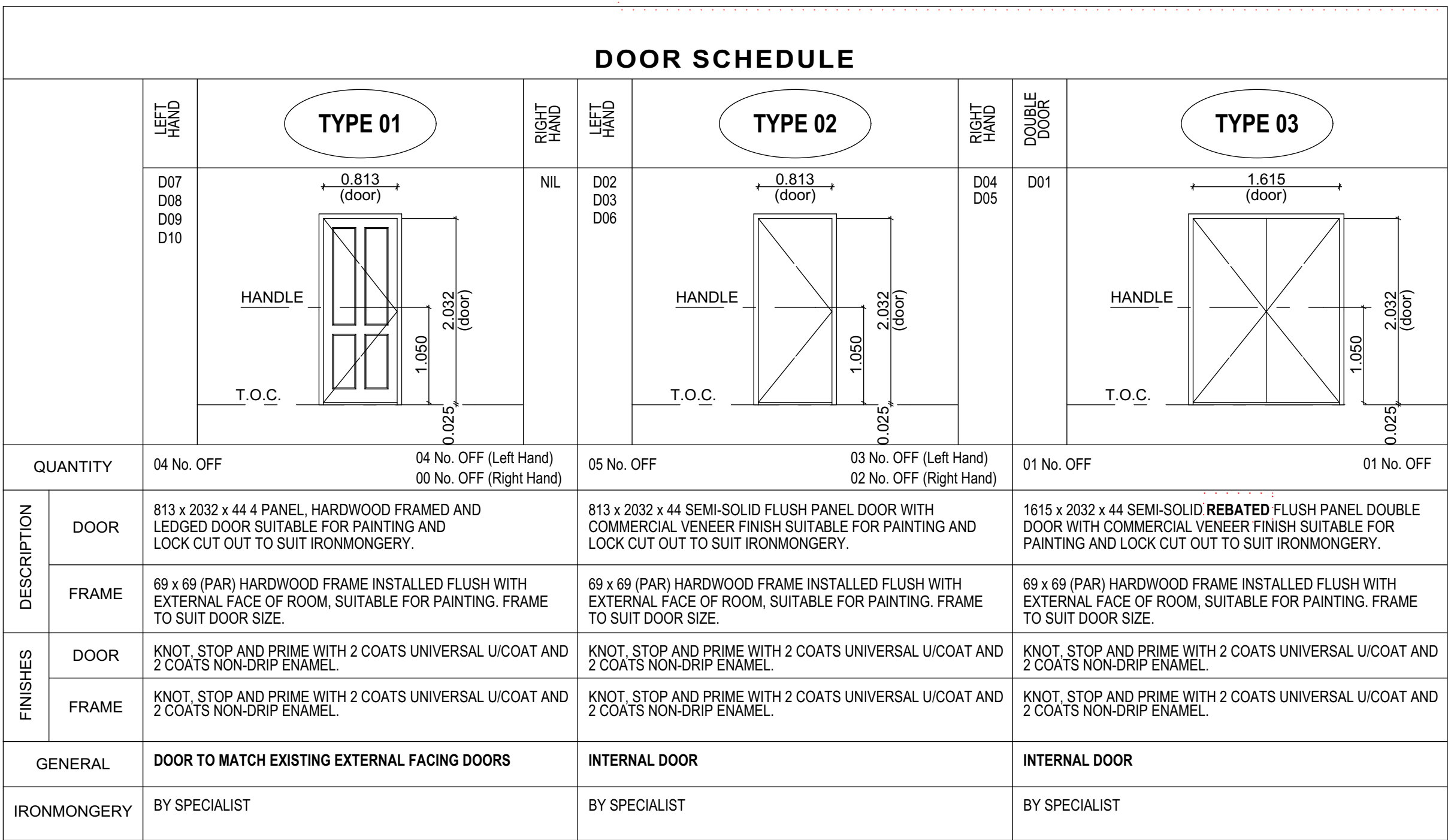
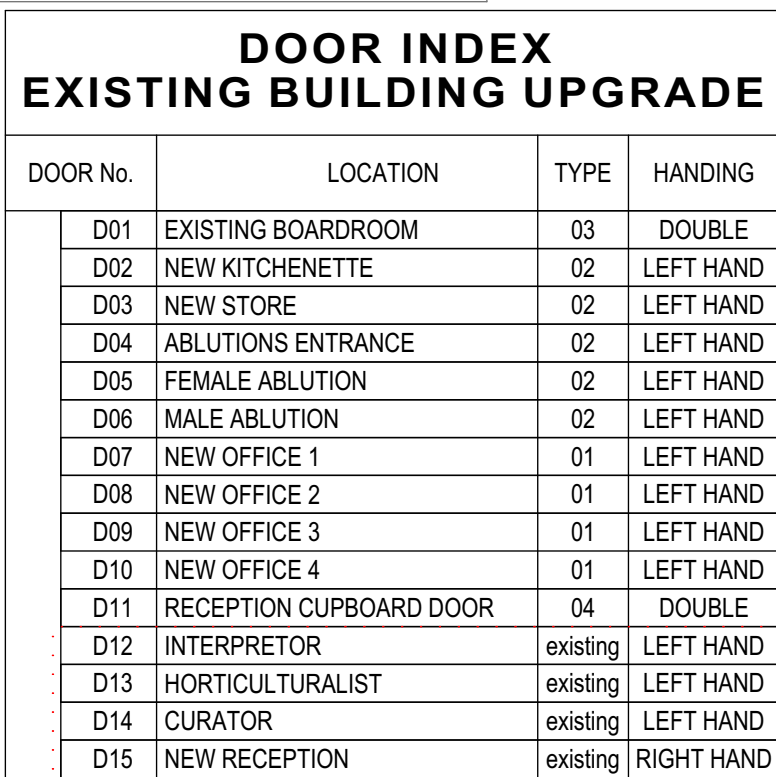
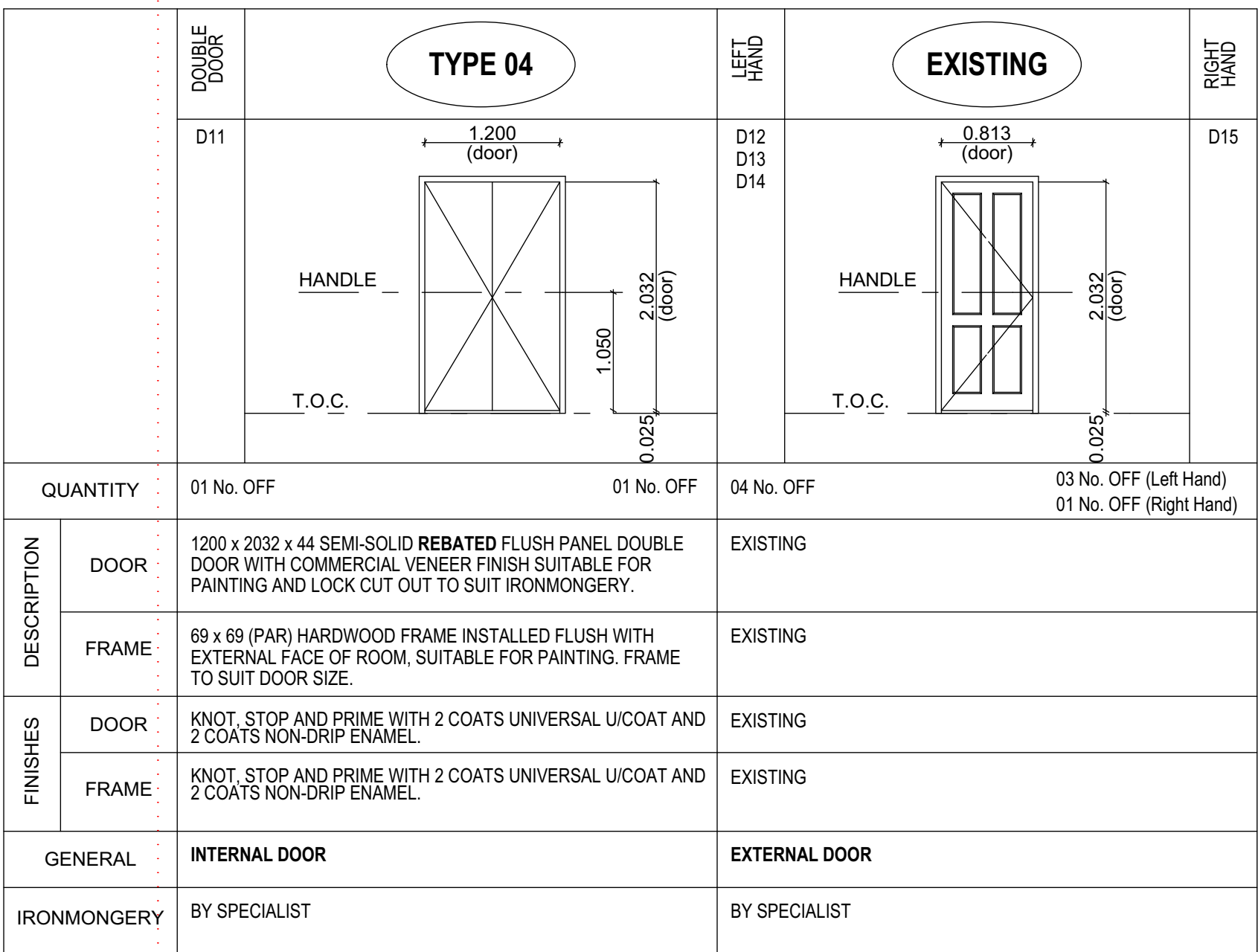
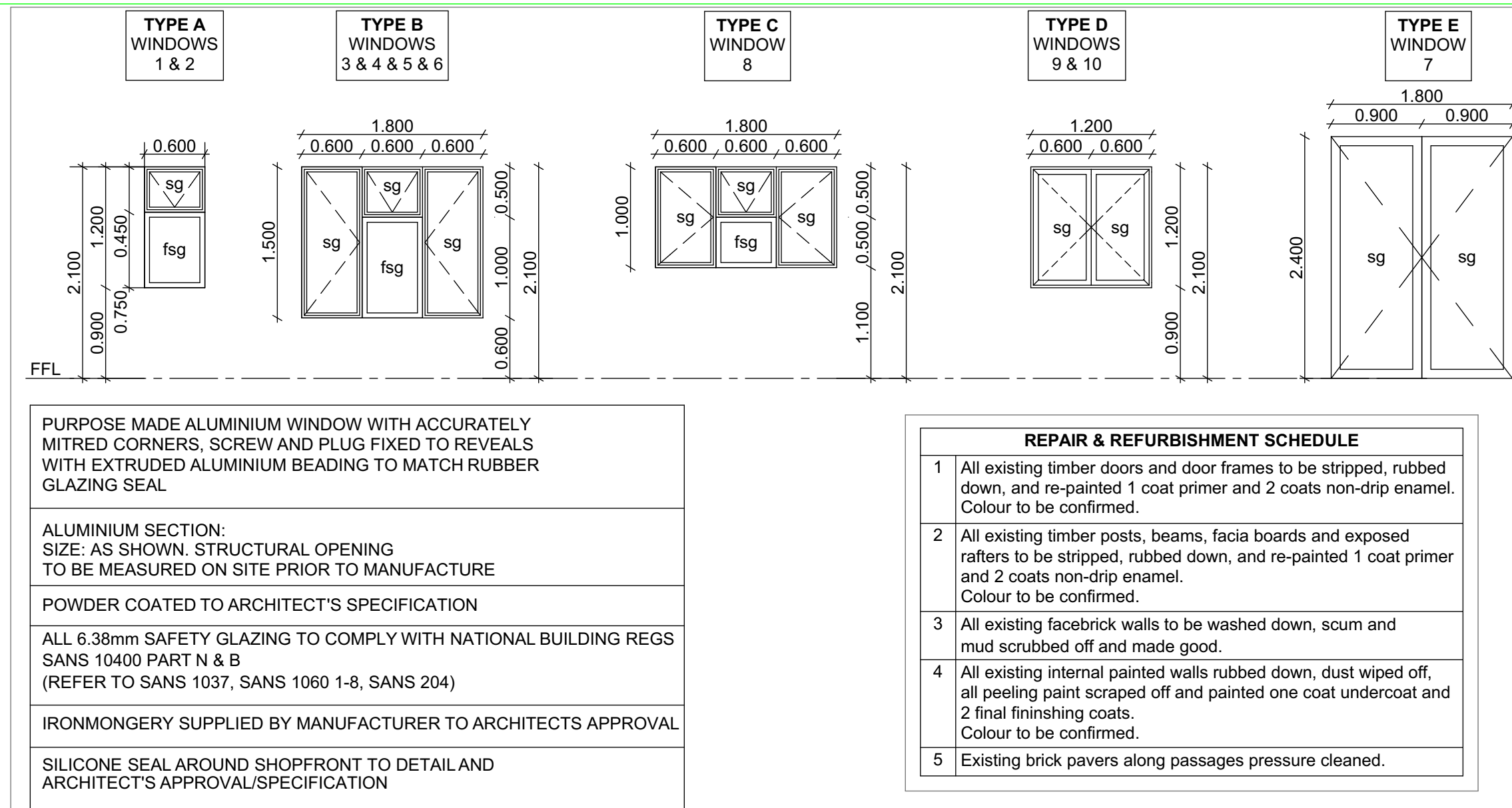
DISCIPLINE	
ARCHITECTURAL	

CONTRACT NUMBER	
KZNBG_AR001	

FILE NUMBER	
ZA2021_2025	

DRAWING NUMBER	
ZA2021_2025_SANBI_KZNBG_AR003_R00	A1

ISSUED FOR TENDER




Door Schedule

- ## NOTES
- GENERAL NOTES:**
- THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS INCLUDING THE SANS 1200 STANDARD SPECIFICATIONS.
 - THE CONTRACTOR MUST IMPLEMENT A QUALITY ASSURANCE SYSTEM FOR THE EXECUTION OF THE WORK. THE QUALITY MANAGEMENT SYSTEM MUST BE APPROVED BY THE ENGINEER PRIOR TO START OF THE WORK. THE CONTRACTOR MUST PERFORM A QUALITY CONTROL INSPECTION BEFORE THE ENGINEER WILL DO ANY INSPECTION.
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 - PRODUCTS DIFFERENT TO THOSE SPECIFIED MAY ONLY BE USED WITH THE ENGINEER'S PRIOR WRITTEN APPROVAL.
- FOUNDATIONS NOTES:**
- EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.
 - FOUNDATIONS TO BE BUILT ON FIRM, WELL COMPACTED SOIL.
 - THE ENGINEER MAY ORDER PLATE LOAD TESTS TO BE DONE TO ASCERTAIN THE BEARING CAPACITY OF THE FOUNDATION FOUNDING SURFACE.
 - ASSUMED SAFE BEARING CAPACITY OF FOUNDING MATERIAL 75 kPa.
- CONCRETE NOTES:**
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH SABS 12000.
 - CONCRETE CLASS TO BE AS FOLLOWS:

BLINDING	15 MPa/18mm
STANDARD REINFORCED CONCRETE	30 MPa/19mm
 - THE CONTRACTOR MUST CO-ORDINATE ALL SERVICE DRAWINGS AND DETAIL POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL AND OTHER SERVICES.
 - THE CONCRETE COVER TO REINFORCING IS AS FOLLOWS:

FOUNDATIONS	40mm
SURFACEBEDS (FROM TDC)	30mm
 - THE STRENGTH OF THE CONCRETE COVER BLOCKS MUST EXCEED THE STRENGTH OF CONCRETE OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED.
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 - 25 x 25 CHAMBERS TO BE FORMED AT ALL EXPOSED CONCRETE CORNERS.
 - 250 MICRON DPC TO BE PLACED UNDER ALL SURFACE BEDS.



SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE

2 CUSSONIA AVENUE, BRUMMERIA
 PRIVATE BAG X101
 SILVERTON
 0184

R00	2023-03-01	ISSUED FOR TENDER
EV NO.	DATE	DESCRIPTION

REVISIONS

PROJECT CONSULTANT

PROJECTNEERS

**PROJECTNEERS CONSULTING ENGINEERS
& PROJECT MANAGERS**
BUILDING 2, 1ST FLOOR, THORNHILL OFFICE PARK
94 BEKKER ROAD, MIDRAND, 1685

+27 11 043 1307
 technical@projectneers.com
 www.projectneers.com

DESIGNED BY	DESIGN CHECKED BY		DRAWN BY	DRAWING CHECKED BY
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PROVAL CONSULTANT

DATE	DOCE REG NO.	
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ORIGINAL SIGNATURE OF APPROVAL

THE DESIGN REVIEW, CONSTRUCTION MONITORING AND
PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION
CENTRE, TOILETS AND REPAIRS TO DEFECTIVE WORK FOR THE
SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT
THE KWAZULU-NATAL NATIONAL BOTANICAL GARDEN,
PIETERMARITZBURG

2 Zwartkop Road, Prestbury, Pietermaritzburg
PORTION 26 OF ERF 3105

OFFICES: ELEVATIONS

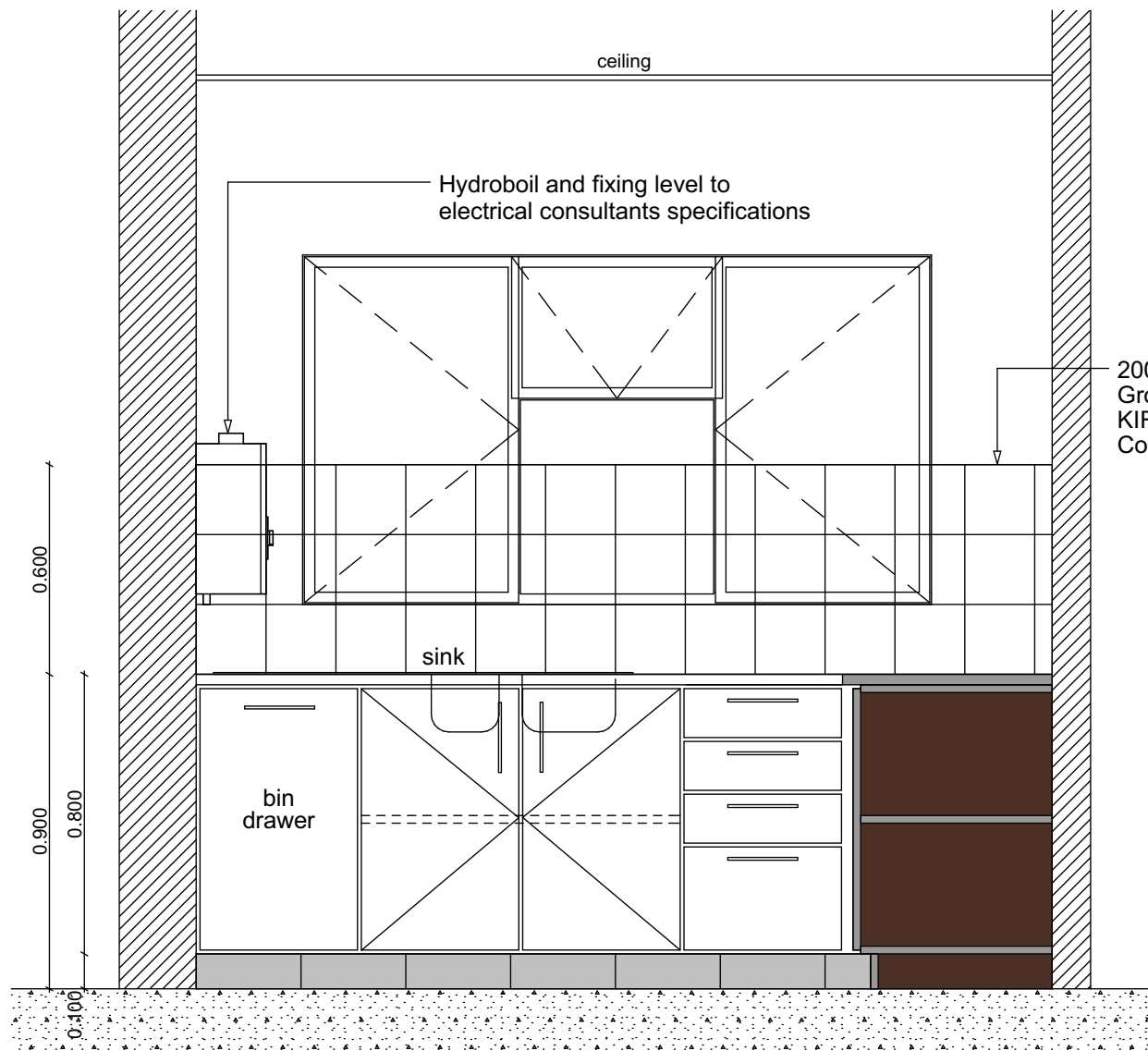
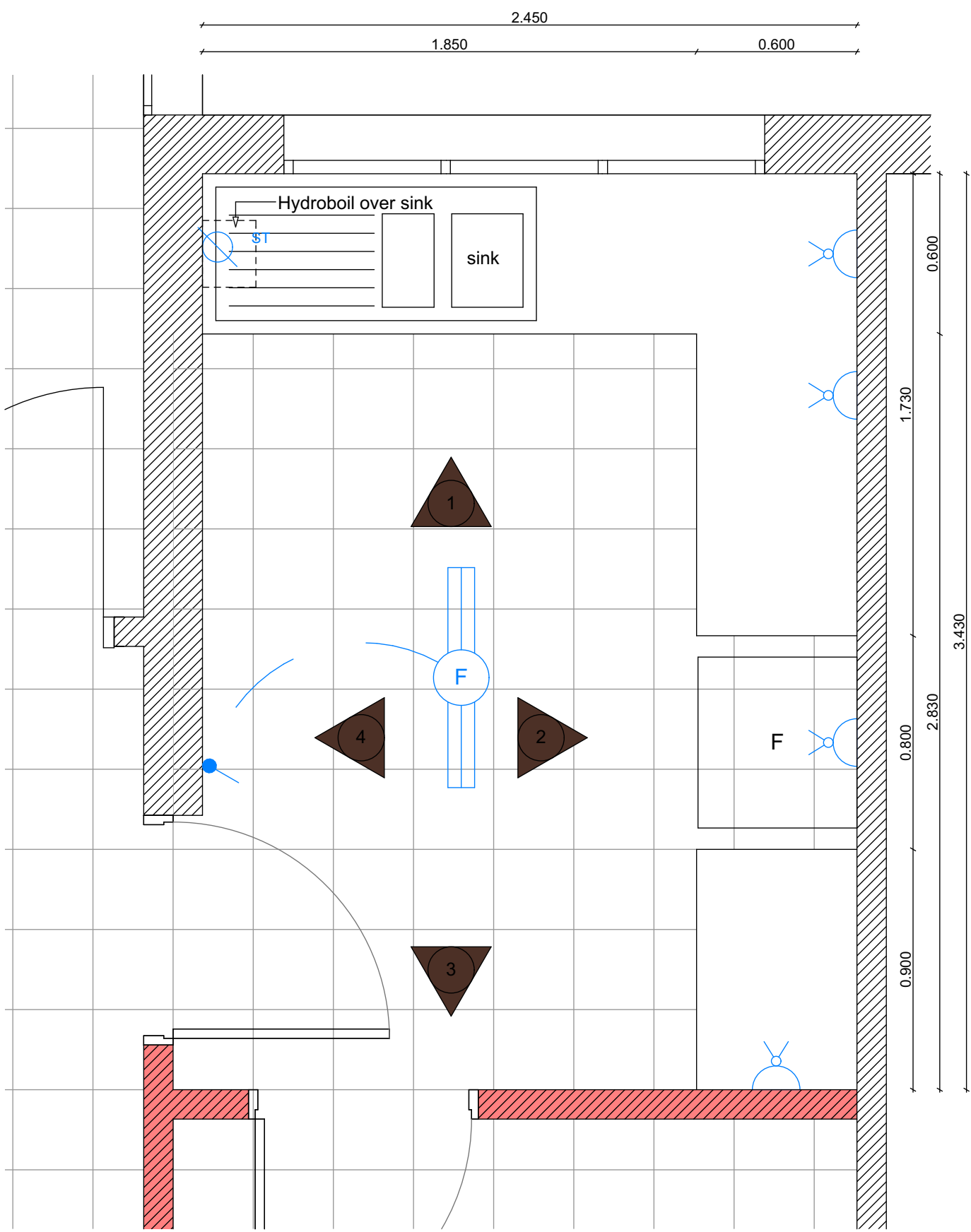
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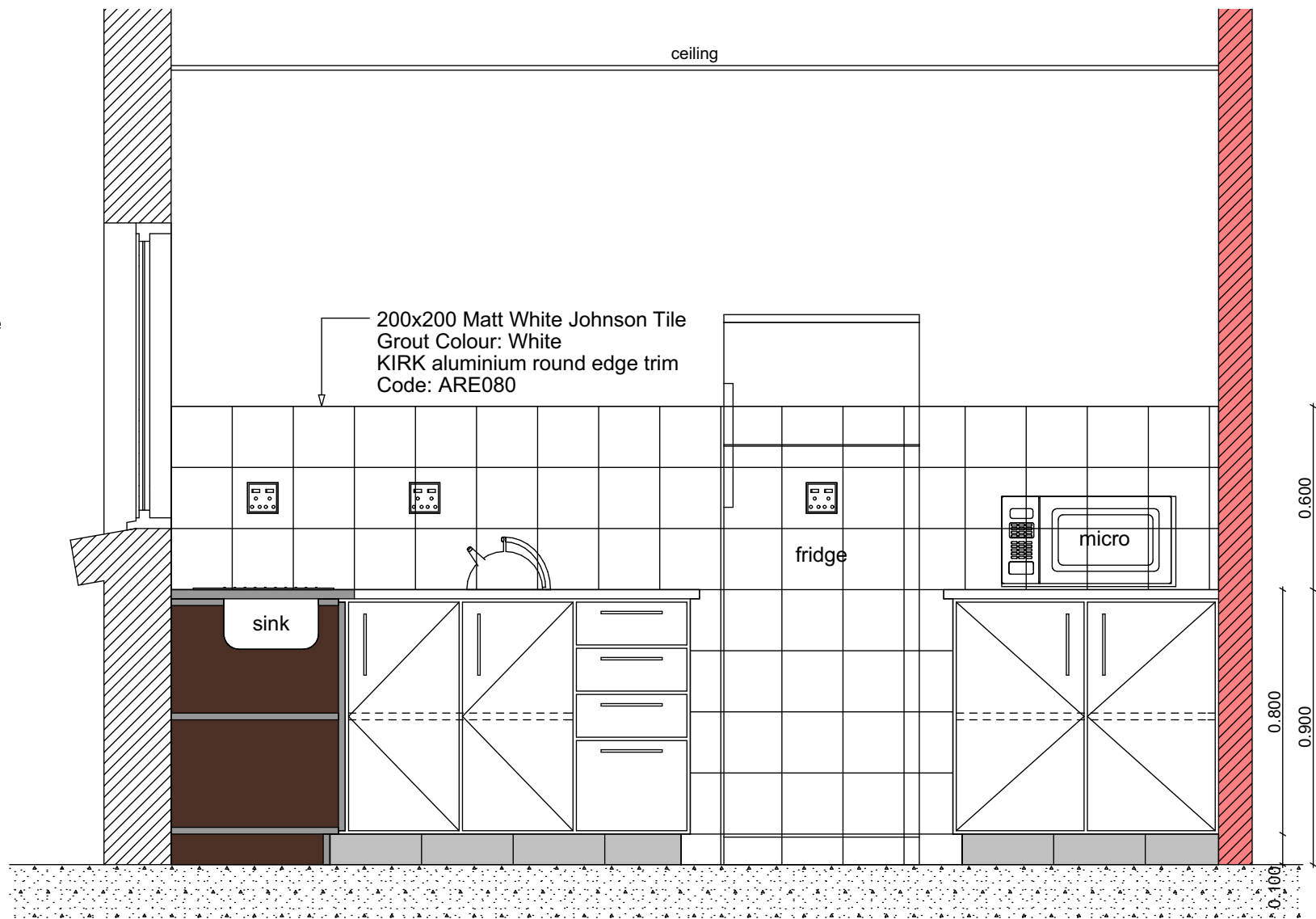
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ORG | STATE | YEAR | PROJ. NO. | CLIENT | SITE | ROLE | SERIAL NO. | REV | SHEET 523

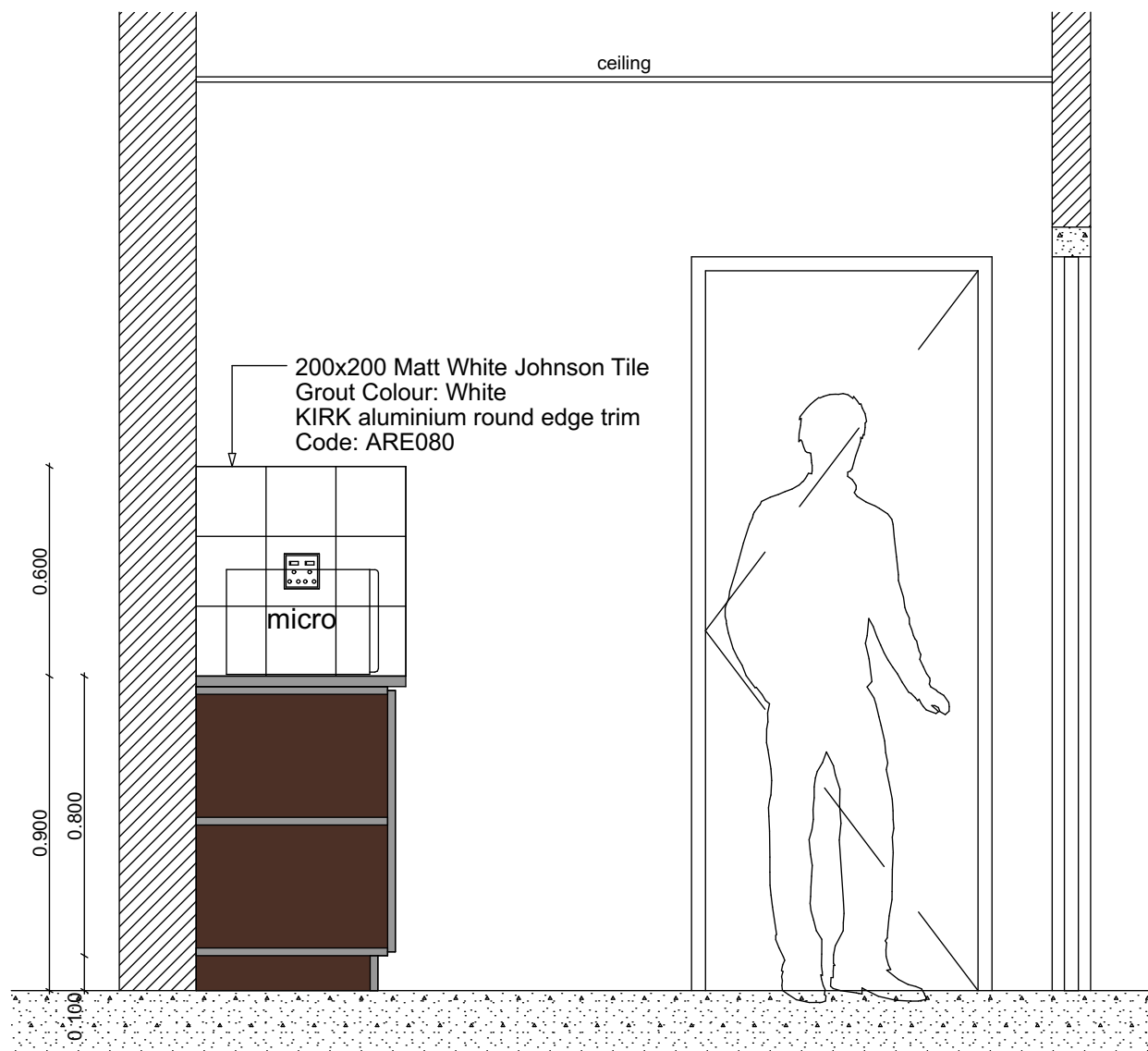
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TENDER**



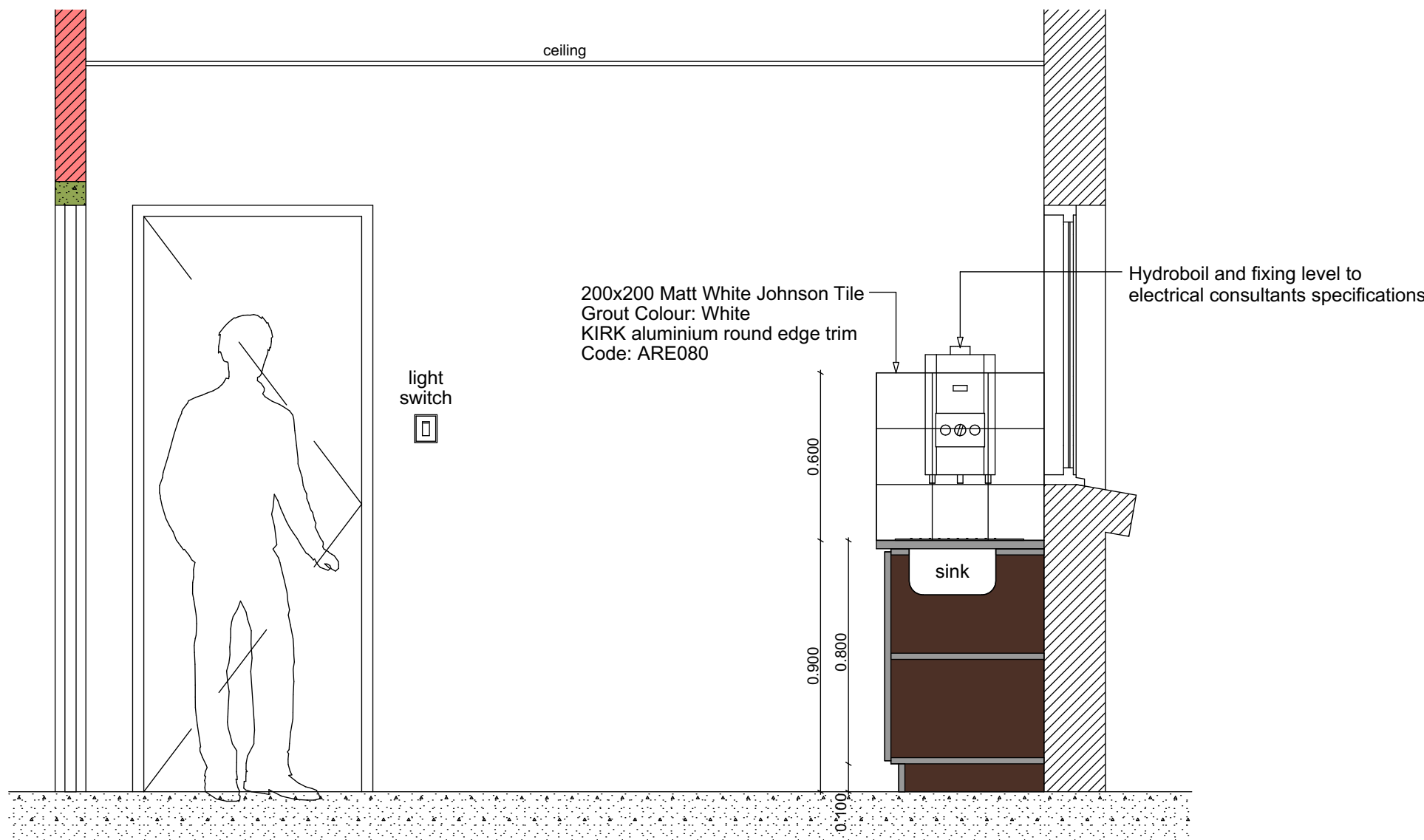
VIEW 1
scale 1:20



VIEW 2
scale 1:20



VIEW 3
scale 1:20



VIEW 4
scale 1:20

FINISHES:

Counter Tops
30mm thick granite "square round" edge profile
Colour: Rustenburg

Carcases & Cupboard Doors
White Melamine (V313 Bison Boards)

Handles
200mm Brushed Stainless Steel Barrel Handles

Hinges
1.2mm inset cabinet hinges

Skirting
100mm high ceramic tile to match floor tile

Wall Tile
200x200mm Johnson wall tile
Colour: Matt White

Sink
Franke Quinline QLX621-120

ELECTRICAL LEGEND:

Double switched socket outlet

Single phase isolator

Light switch

Surface mounted low brightness fluorescent light fitting

**REFER TO ELECTRICAL CONSULTANTS
DRAWING 2533-01-09 FOR DETAILS**

Kitchen Details - Office Block

NOTES

GENERAL NOTES:

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- THE ENGINEER MAY ORDER PLATE LOAD TESTS TO BE DONE TO ASCERTAIN THE BEARING CAPACITY OF THE FOUNDATION FOUNDING SURFACE.
- ASSUMED SAFE BEARING CAPACITY OF FOUNDING MATERIAL 75 kPa.

CONCRETE NOTES:

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PRIVATE BAG X101
SILVERTON
0164

REV NO.	DATE	DESCRIPTION
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DRAWING CHECKS	DESIGNED BY	CHECKED BY	APPROVED BY
N. MPOFU	S. ZUNGU		F. MAROZVA

APPROVAL CONSULTANT

B. TSHUMA

DATE	REF. NO.	THE MASTER HELD AT THE PROJECTNEERS CONSULTING MIDRAND OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL.
2023-03-01		

PROJECT NAME

THE DESIGN REVIEW, CONSTRUCTION MONITORING AND PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION CENTRE, TOILETS AND REPAIRS TO DEFECTIVE WORK FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWAZULU-NATAL NATIONAL BOTANICAL GARDEN, PIETERMARITZBURG

PROJECT SITE
PIETERMARITZBURG BOTANICAL GARDEN
2 Zwartkop Road, Pietermaritzburg, Pietermaritzburg
PORTION 26 OF ERF 3105

SHEET TITLE
OFFICES: KITCHEN JOINERY & DETAILS

DISCIPLINE
ARCHITECTURAL

CONTRACT NUMBER
KZNBG_AR001

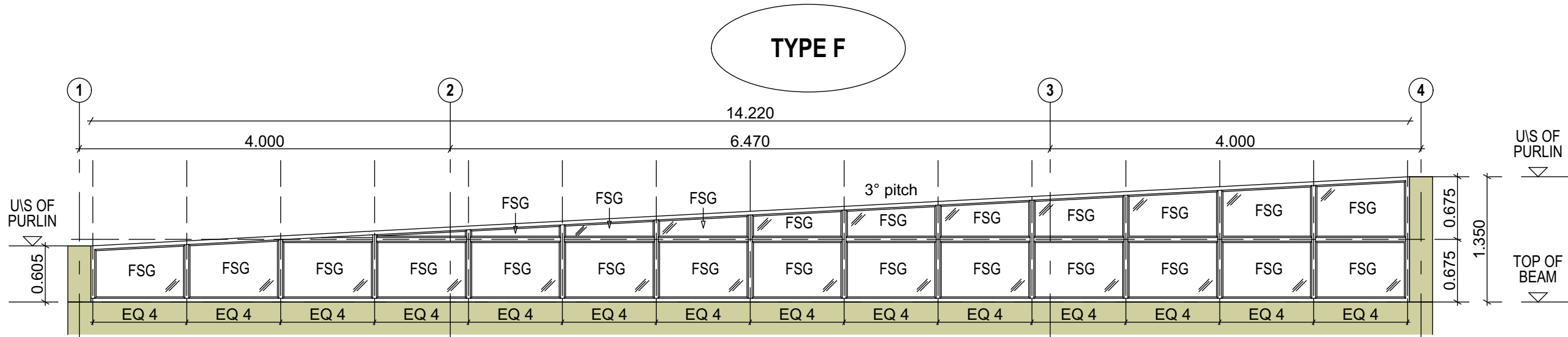
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ZA2021_2025

DRAWING NUMBER
ZA2021_2025_SANBI_KZNBG_AR008_R00

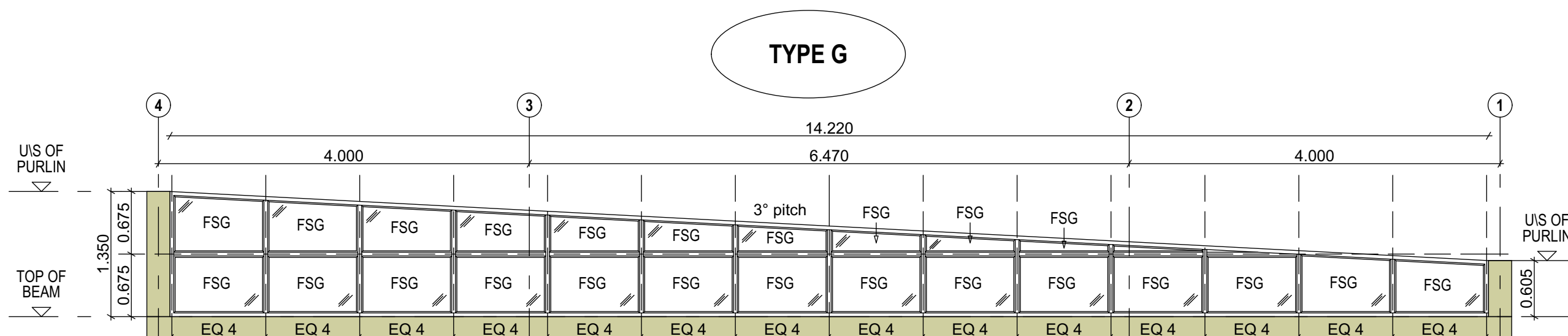
ISSUED FOR TENDER

TYPE A	TYPE B	TYPE C	TYPE D	TYPE E
04No. OFF WINDOWS 1 - 2 & 4 - 5	02No. OFF WINDOWS 3 & 6	02No. OFF DOORS 1 & 2	04No. OFF DOORS 3,4,5 & 6	01No. OFF DOOR 7
PURPOSE MADE ALUMINIUM WINDOW WITH ACCURATELY MITRED CORNERS, SCREW AND PLUG FIXED TO REVEALS WITH EXTRUDED ALUMINIUM BEADING TO MATCH RUBBER GLAZING SEAL	PURPOSE MADE ALUMINIUM WINDOW WITH ACCURATELY MITRED CORNERS, SCREW AND PLUG FIXED TO REVEALS WITH EXTRUDED ALUMINIUM BEADING TO MATCH RUBBER GLAZING SEAL	PURPOSE MADE ALUMINIUM DOOR WITH ACCURATELY MITRED CORNERS, SCREW AND PLUG FIXED TO REVEALS WITH EXTRUDED ALUMINIUM BEADING TO MATCH RUBBER GLAZING SEAL	PURPOSE MADE ALUMINIUM DOOR WITH ACCURATELY MITRED CORNERS, SCREW AND PLUG FIXED TO REVEALS WITH EXTRUDED ALUMINIUM BEADING TO MATCH RUBBER GLAZING SEAL	PURPOSE MADE ALUMINIUM DOOR WITH ACCURATELY MITRED CORNERS, SCREW AND PLUG FIXED TO REVEALS WITH EXTRUDED ALUMINIUM BEADING TO MATCH RUBBER GLAZING SEAL
ALUMINIUM SECTION: SIZE: APPROX. 2 000h x 1800w STRUCTURAL OPENING TO BE MEASURED ON SITE PRIOR TO MANUFACTURE	ALUMINIUM SECTION: SIZE: APPROX. 2 000h x 2 700w STRUCTURAL OPENING TO BE MEASURED ON SITE PRIOR TO MANUFACTURE	ALUMINIUM SECTION: SIZE: APPROX. 2 470h x 1 800w STRUCTURAL OPENING TO BE MEASURED ON SITE PRIOR TO MANUFACTURE	ALUMINIUM SECTION: SIZE: APPROX. 2 470h x 2 930w STRUCTURAL OPENING TO BE MEASURED ON SITE PRIOR TO MANUFACTURE	ALUMINIUM SECTION: SIZE: APPROX. 2 295h x 2 850w STRUCTURAL OPENING TO BE MEASURED ON SITE PRIOR TO MANUFACTURE
POWDER COATED: WHITE	POWDER COATED: WHITE	POWDER COATED: WHITE	POWDER COATED: WHITE	POWDER COATED: WHITE
6.38mm PG SMARTGLASS™ LAMINATED LOW E TOUGHENED SAFETY GLASS, COMPLYING WITH SANS 1263 PART 1, 2 OR 3	6.38mm PG SMARTGLASS™ LAMINATED LOW E TOUGHENED SAFETY GLASS, COMPLYING WITH SANS 1263 PART 1, 2 OR 3	6.38mm PG SmartGlass™ DecorLam™ obscure patterned laminated safety glass, complying with SANS 1263 Part 1, 2 or 3, glazed in accordance with NBR N schedule 1 and SABS 0137.	6.38mm PG SmartGlass™ DecorLam™ obscure patterned laminated safety glass, complying with SANS 1263 Part 1, 2 or 3, glazed in accordance with NBR N schedule 1 and SABS 0137.	6.38mm PG SmartGlass™ DecorLam™ obscure patterned laminated safety glass, complying with SANS 1263 Part 1, 2 or 3, glazed in accordance with NBR N schedule 1 and SABS 0137.
SUPPLIED BY MANUFACTURER TO ARCHITECTS APPROVAL	SUPPLIED BY MANUFACTURER TO ARCHITECTS APPROVAL	PARLIAMENT HINGES SUPPLIED BY MANUFACTURER TO ARCHITECTS APPROVAL	SUPPLIED BY MANUFACTURER TO ARCHITECTS APPROVAL	SUPPLIED BY MANUFACTURER TO ARCHITECTS APPROVAL
SILICONE SEAL AROUND SHOPFRONT TO DETAIL AND ARCHITECT'S APPROVAL/SPECIFICATION	SILICONE SEAL AROUND SHOPFRONT TO DETAIL AND ARCHITECT'S APPROVAL/SPECIFICATION	SILICONE SEAL AROUND SHOPFRONT TO DETAIL AND ARCHITECT'S APPROVAL/SPECIFICATION	SILICONE SEAL AROUND SHOPFRONT TO DETAIL AND ARCHITECT'S APPROVAL/SPECIFICATION	SILICONE SEAL AROUND SHOPFRONT TO DETAIL AND ARCHITECT'S APPROVAL/SPECIFICATION

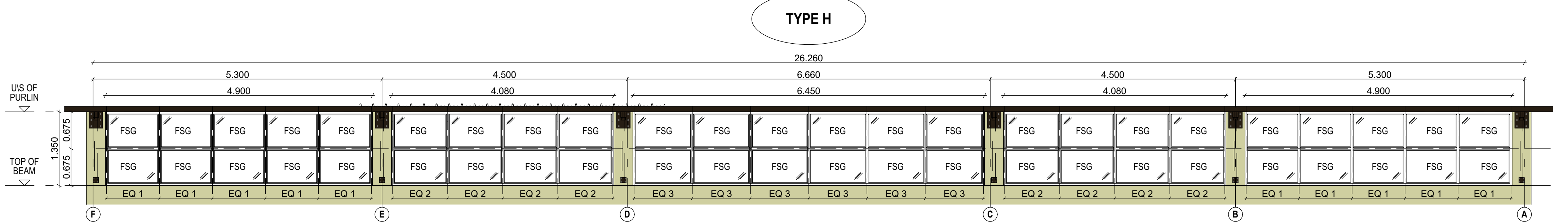
01No. OFF SHOPFRONT 01
PURPOSE MADE ALUMINIUM WINDOW WITH ACCURATELY MITRED CORNERS, SCREW AND PLUG FIXED TO REVEALS WITH EXTRUDED ALUMINIUM BEADING TO MATCH RUBBER GLAZING SEAL
ALUMINIUM SECTION: SIZE: VARIES. STRUCTURAL OPENING TO BE MEASURED ON SITE PRIOR TO MANUFACTURE
POWDER COATED: WHITE
6.38mm PG SMARTGLASS™ LAMINATED LOW E TOUGHENED SAFETY GLASS, COMPLYING WITH SANS 1263 PART 1, 2 OR 3
SUPPLIED BY MANUFACTURER TO ARCHITECTS APPROVAL
SILICONE SEAL AROUND SHOPFRONT TO DETAIL AND ARCHITECT'S APPROVAL/SPECIFICATION



01No. OFF SHOPFRONT 03
PURPOSE MADE ALUMINIUM WINDOW WITH ACCURATELY MITRED CORNERS, SCREW AND PLUG FIXED TO REVEALS WITH EXTRUDED ALUMINIUM BEADING TO MATCH RUBBER GLAZING SEAL
ALUMINIUM SECTION: SIZE: VARIES STRUCTURAL OPENING TO BE MEASURED ON SITE PRIOR TO MANUFACTURE
POWDER COATED: WHITE
6.38mm PG SMARTGLASS™ LAMINATED LOW E TOUGHENED SAFETY GLASS, COMPLYING WITH SANS 1263 PART 1, 2 OR 3
SUPPLIED BY MANUFACTURER TO ARCHITECTS APPROVAL
SILICONE SEAL AROUND SHOPFRONT TO DETAIL AND ARCHITECT'S APPROVAL/SPECIFICATION



01No. OFF SHOPFRONT 02
PURPOSE MADE ALUMINIUM WINDOW WITH ACCURATELY MITRED CORNERS, SCREW AND PLUG FIXED TO REVEALS WITH EXTRUDED ALUMINIUM BEADING TO MATCH RUBBER GLAZING SEAL
ALUMINIUM SECTION: SIZE: APPROX. 1 150 x 26 260w STRUCTURAL OPENING TO BE MEASURED ON SITE PRIOR TO MANUFACTURE
POWDER COATED: WHITE
6.38mm PG SMARTGLASS™ LAMINATED LOW E TOUGHENED SAFETY GLASS, COMPLYING WITH SANS 1263 PART 1, 2 OR 3
SUPPLIED BY MANUFACTURER TO ARCHITECTS APPROVAL
SILICONE SEAL AROUND SHOPFRONT TO DETAIL AND ARCHITECT'S APPROVAL/SPECIFICATION



DOOR SCHEDULE							
		LEFT HAND	TYPE 1	RIGHT HAND	LEFT HAND	TYPE 2	RIGHT HAND
		D9	<p>NB: DOOR TO MATCH EXISTING OFFICE STYLE DOORS</p> <p>T.O.C.</p>	NIL	D8	<p>NB: DOOR TO MATCH EXISTING OFFICE STYLE DOORS</p> <p>T.O.C.</p>	NIL
QUANTITY		02 No. OFF		01 No. OFF (Left Hand) 00 No. OFF (Right Hand)		00 No. OFF	
DESCRIPTION	DOOR	813 x 2032 x 44 4 PANEL, HARDWOOD DOOR SUITABLE FOR PAINTING AND LOCK CUT OUT TO SUIT IRONMONGERY.			EXISTING SINGLE LEAF DOOR		
	FRAME	69 x 69 (PAR) HARDWOOD FRAME INSTALLED FLUSH WITH EXTERNAL FACE OF ROOM, SUITABLE FOR PAINTING. FRAME TO SUIT DOOR SIZE.			69 x 69 (PAR) HARDWOOD FRAME INSTALLED FLUSH WITH EXTERNAL FACE OF ROOM, SUITABLE FOR PAINTING. FRAME TO SUIT DOOR SIZE.		
FINISHES	DOOR	KNOT, STOP AND PRIME WITH 2 COATS UNIVERSAL U/COAT AND 2 COATS NON-D RIP ENAMEL.			KNOT, STOP AND PRIME WITH 2 COATS UNIVERSAL U/COAT AND 2 COATS NON-D RIP ENAMEL.		
	FRAME	KNOT, STOP AND PRIME WITH 2 COATS UNIVERSAL U/COAT AND 2 COATS NON-D RIP ENAMEL.			KNOT, STOP AND PRIME WITH 2 COATS UNIVERSAL U/COAT AND 2 COATS NON-D RIP ENAMEL.		
GENERAL					FANLIGHT OVER DOOR WITH FIXED PANEL OF GLASS TO RECEIVE OBSCURE VINYL		
IRONMONGERY		BY SPECIALIST			BY SPECIALIST		

DOOR SCHEDULE		
	DOUBLE DOOR	TYPE 3 existing
	D10 D11	
	T.O.C.	
QUANTITY	02 No. OFF	
DESCRIPTION	DOOR	EXISTING DOUBLE DOOR
	FRAME	EXISTING
FINISHES	DOOR	EXISTING
	FRAME	EXISTING
GENERAL		
IRONMONGERY	BY SPECIALIST	

DOOR INDEX EXISTING BUILDING UPGRADE			
DOOR No.	LOCATION	TYPE	HANDING
D8	EXISTING LINK	1	LEFT HAND
D9	EXISTING LINK	1	
D10	EXISTING HALL	3	DOUBLE
D11	EXISTING HALL	3	DOUBLE
D12	EXISTING HALL/KITCHEN	2	RIGHT HAND
D13	EXISTING HALL/KITCHEN	2	LEFT HAND
D14	NEW SERVICE YARD	2	LEFT HAND
D15	EXISTING STORE	2	LEFT HAND
D16	EXISTING STORE	2	LEFT HAND
D17	EXISTING STORE	2	RIGHT HAND
D18	EXISTING COURTYARD	2	LEFT HAND
D19	EXISTING MALE ABLUTION	2	RIGHT HAND
D20	EXISTING FEMALE ABLUTION	2	RIGHT HAND
D21	EXISTING FEMALE ABLUTION	2	LEFT HAND
D22	EXISTING ROOM	2	LEFT HAND
D23	EXISTING FEMALE WC CUBICLE	2	RIGHT HAND
D24	EXISTING FEMALE WC CUBICLE	2	RIGHT HAND
D25	EXISTING FEMALE WC CUBICLE	2	RIGHT HAND
D26	EXISTING FEMALE WC CUBICLE	2	RIGHT HAND
D27	EXISTING FEMALE WC DISABLED	2	RIGHT HAND
D28	EXISTING MALE WC DISABLED	2	LEFT HAND
D29	EXISTING MALE WC CUBICLE	2	RIGHT HAND
D30	EXISTING MALE WC CUBICLE	2	RIGHT HAND
D31	EXISTING MALE WC CUBICLE	2	RIGHT HAND
D32	EXISTING MALE WC ENTRANCE	2	LEFT HAND
D33	EXISTING FEMALE WC ENTRANCE	2	RIGHT HAND
D34	EXISTING MALE ABLUTION	2	LEFT HAND

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 - ASSUMED SAFE BEARING CAPACITY OF FOUNDING MATERIAL 75 kPa.
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CLIENT

SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE

SANBI
Biodiversity for Life

South African National Biodiversity Institute

2 CUSSONIA AVENUE, BRUMMERIA
PRIVATE BAG X101
SILVERTON 0164

REV NO.	DATE	DESCRIPTION
001	2023-03-01	ISSUED FOR TENDER

REVISIONS

PROJECT CONSULTANT

PROJECTNEERS

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& PROJECT MANAGERS
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94 BEKKER ROAD, MIDRAND, 1685

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DRAWING CHECKS	DESIGNED BY	CHECKED BY	APPROVED BY
N. MPOFU	S. ZUNGU		F. MAROZVA

APPROVAL CONSULTANT
B. TSHUMA

DATE: 2023-03-01
PROJECT NAME: THE MASTER HELD AT THE PROJECTNEERS CONSULTING MIDRAND OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL.

PROJECT SITE
PIETERMARITZBURG BOTANICAL GARDEN
2 Zwartkops Road, Pietermaritzburg, Pietermaritzburg
PORTION 26 OF ERF 3105

SHEET TITLE
NEW HALL- WINDOW & DOOR SCHEDULE

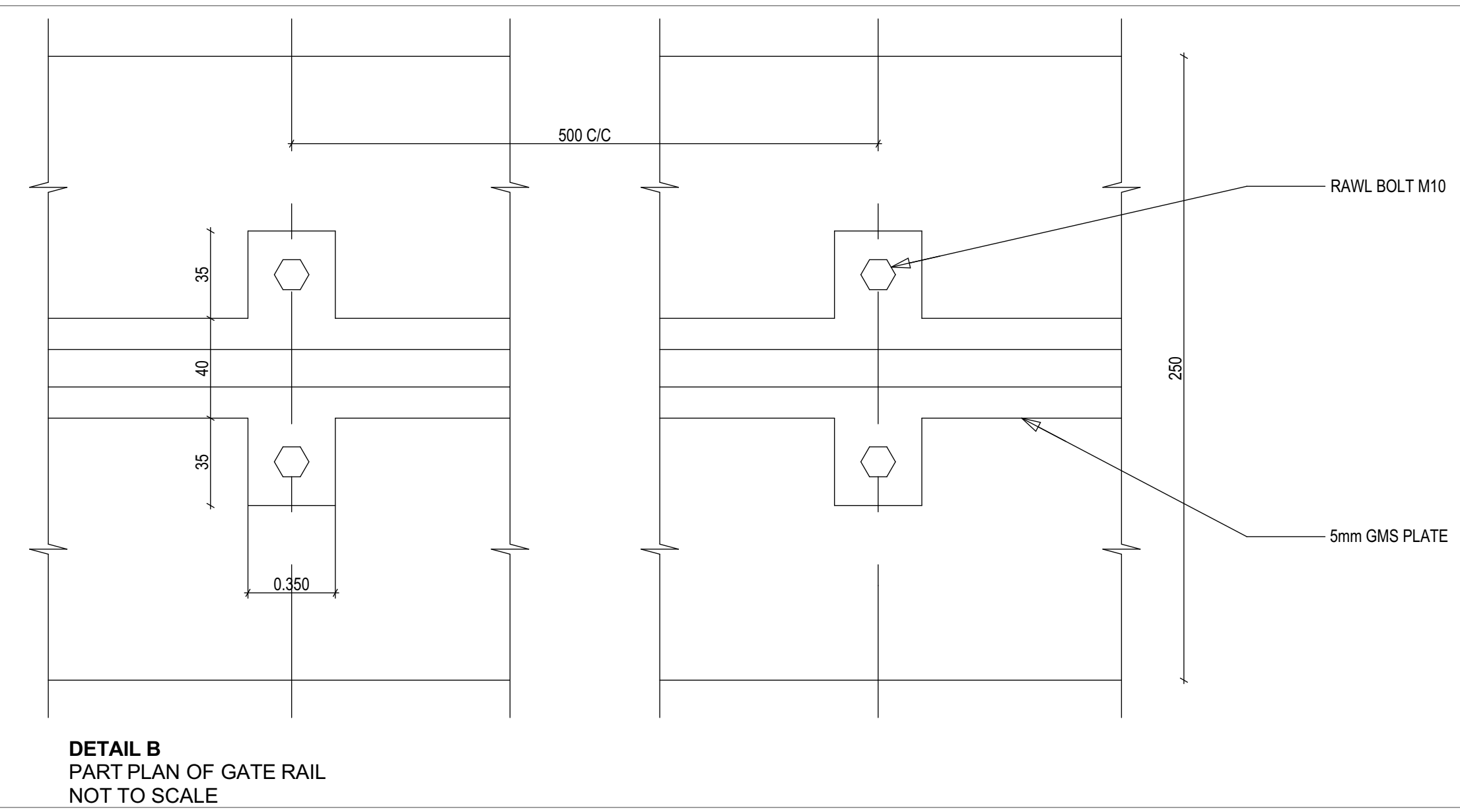
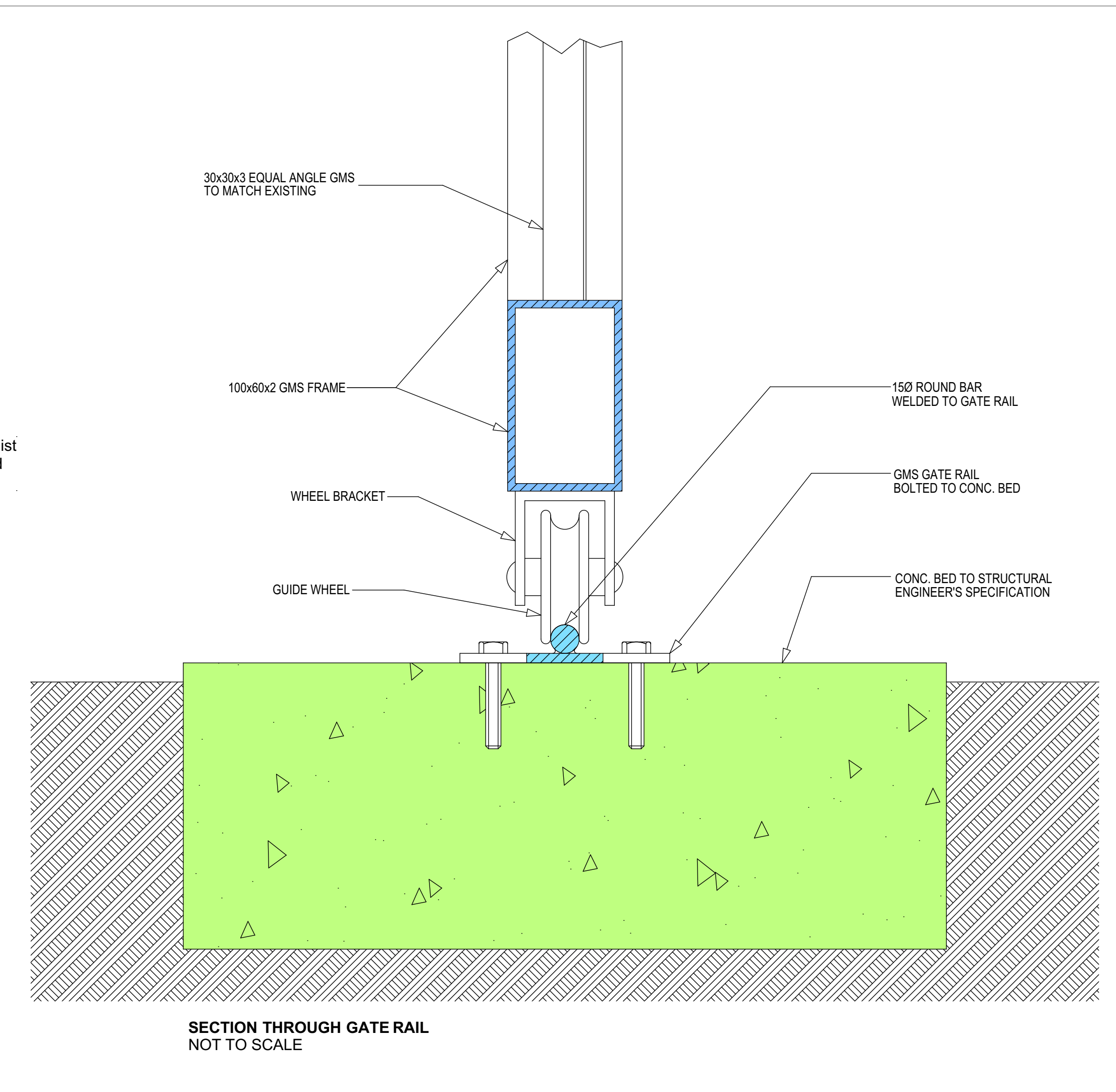
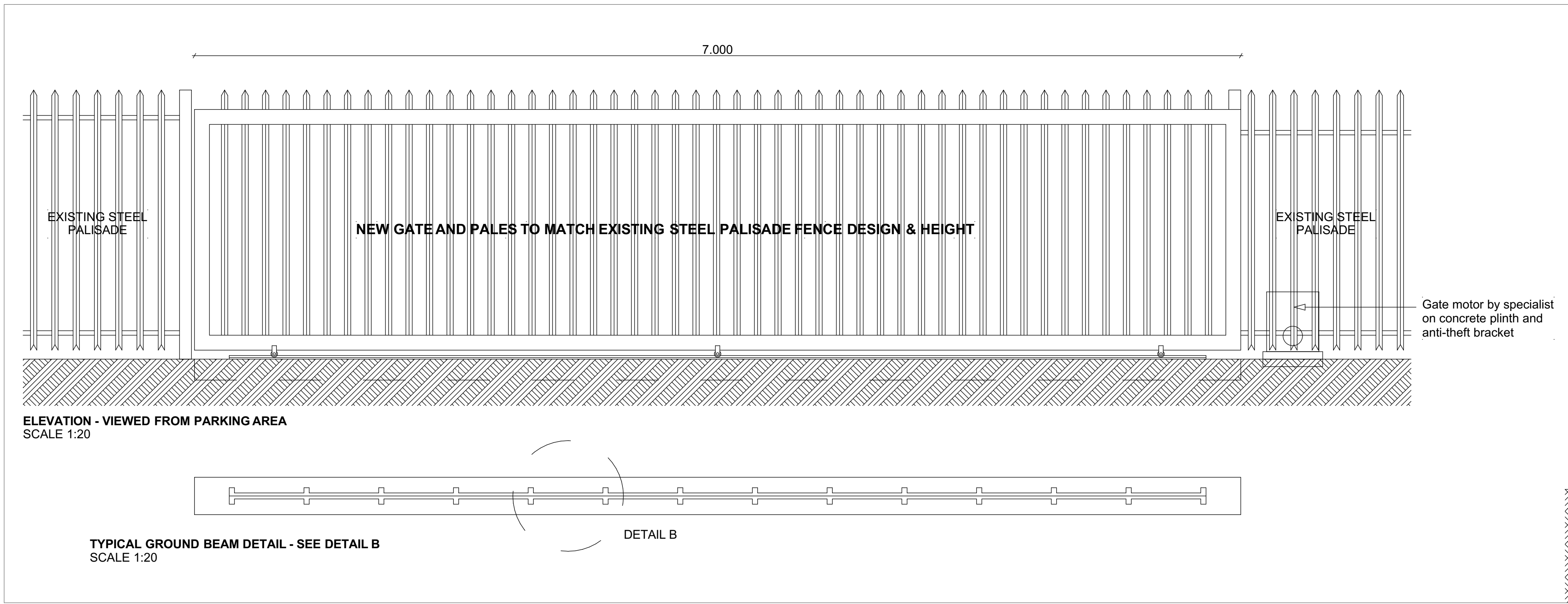
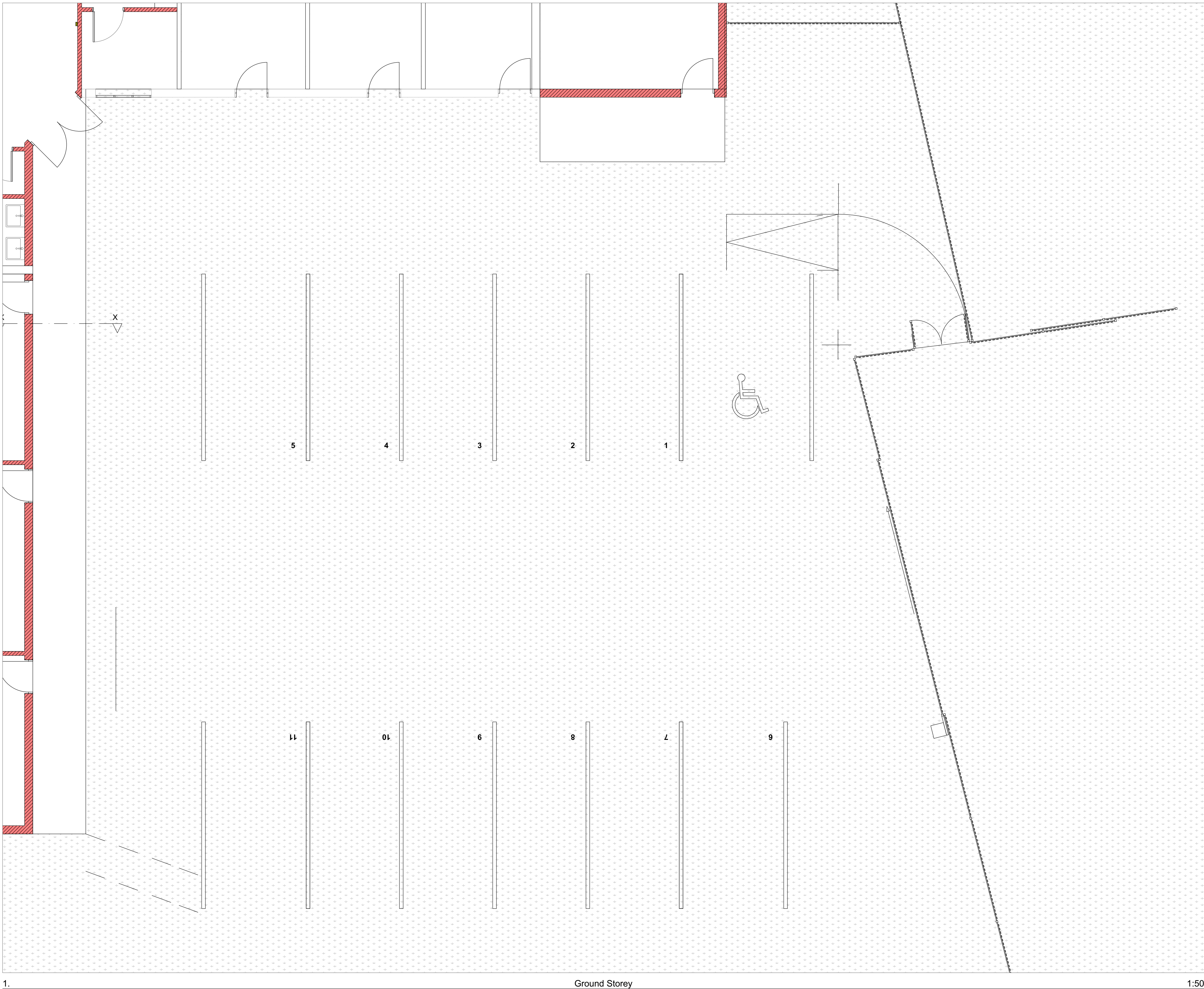
DISCIPLINE
ARCHITECTURAL

CONTRACT NUMBER
KZNBG_AR001

FILE NUMBER
ZA2021_2025

DRAWING NUMBER
ZA2021_2025_SANBI_KZNBG_AR004_R00

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BLINDING 15 MPa/19mm
STANDARD REINFORCED CONCRETE 30 MPa/19mm
- THE CONTRACTOR MUST CO-ORDINATE ALL SERVICE DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL AND OTHER SERVICES.
- THE CONCRETE COVER TO REINFORCING IS AS FOLLOWS:
FOUNDATIONS 40mm
SURFACE BEDS (FROM TOC) 30mm
- THE STRENGTH OF THE CONCRETE COVER BLOCKS SHALL EXCEED THE STRENGTH OF CONCRETE OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY LAID CONCRETE.
- CONCRETE SHALL BE CURED TO AN APPROVED SPECIFICATION USING MEMBRANES, MIST SPRAY OR CURING COMPOUND THAT DOES NOT AFFECT ADHESION OR FINISHES.
- NO BRICK WALLS MAY BE BUILT ON FLOOR SLABS, BEAMS, WALLS, ETC. BEFORE THE ELEMENT HAS REACHED THE 28 DAY TARGET STRENGTH, UNLESS APPROVED IN WRITING BY THE ENGINEER.
- 25 x 25 CHAMFERS TO BE FORMED AT ALL EXPOSED CONCRETE CORNERS.
- 250 MICRON DPC TO BE PLACED UNDER ALL SURFACE BEDS.

CLIENT
SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE



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B. TSHUMA

2023-03-01 THE MASTER HELD AT THE PROJECTNEERS CONSULTING MIDRAND OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL

PROJECT NAME

THE DESIGN REVIEW, CONSTRUCTION MONITORING AND PROJECT MANAGEMENT OF THE INCOMPLETE EDUCATION CENTRE, TOILETS AND REPAIRS TO DEFECTIVE WORK FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWAZULU-NATAL NATIONAL BOTANICAL GARDEN, PIETERMARITZBURG

PROJECT SITE
PIETERMARITZBURG BOTANICAL GARDEN
2 Zwartkop Road, Presbury, Pietermaritzburg
PORTION 26 OF ERF 3105

SHEET TITLE
OFFICES: RAMP & VEHICLE GATE DETAILS

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