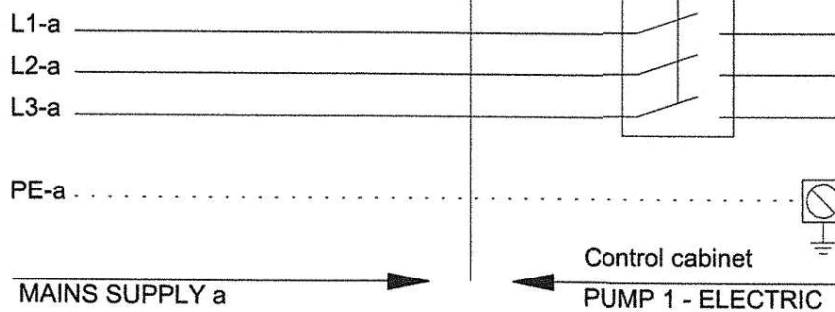
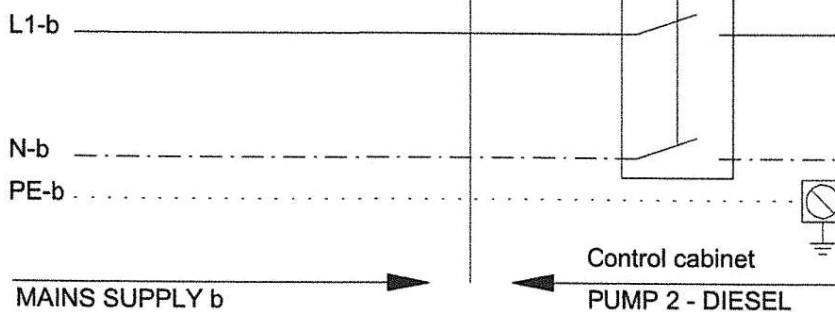


99844412 Hydro EN 80-200/202 YJS ASD-U3-B 50 Hz

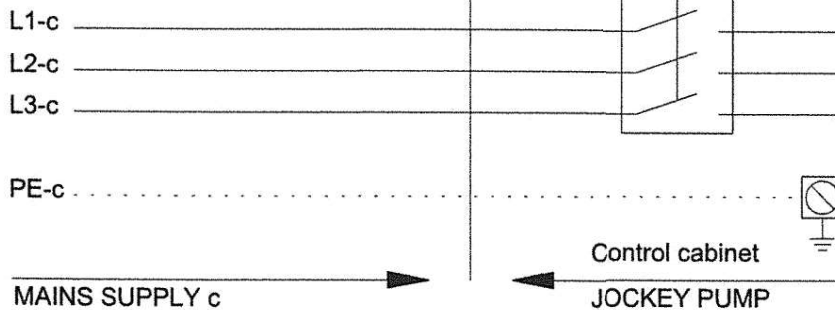
PUMP 1 - ELECTRIC



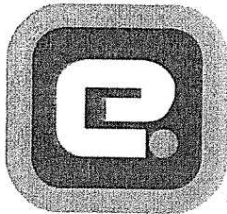
PUMP 2 - DIESEL



JOCKEY PUMP



Note! All units are in [mm] unless others are stated.



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Our File : DJE/Public/Engineering/Projects/2016/2016-272/Tender/Fire Stops

Our Reference : Technical Specification (Fire Stops)

**NTSONKOTHA SENIOR SECONDARY SCHOOL
IN LADY FRERE
BY INDEPENDENT DEVELOPMENT TRUST**

MECHANICAL ENGINEERING SERVICES

SPECIFICATION AND APPLICATION OF FIRE STOPS FOR PENETRATIONS IN FIRE WALLS

Fire Stops (PVC Pipes)

Application

- : All annular gaps around the PVC piping penetrating a fire wall, are to be tightly packed with mineral wool (CP670), and sealed with 10-15 mm of intumescent sealer (CP601S / FS ONE MAX / CP606) on either side of the fire wall. Once the sealant is set, a collar, cut to size, (CFS-EL) is to be placed on both sides of the fire wall to complete the installation and create a 120 minute fire rated fire wall (*in accordance with SANS 10177*)

PVC Pipe Sizes (Ø mm)

- : Ø20 to Ø110

Quantity

- : See Construction Drawings

Compliance

- : Testing and certification in accordance with SANS 10177, and classified in accordance with SANS 10177-2

Purpose

- : The fire stop is to be used to close up the penetrations created in a fire wall / fire barrier, by services or any other opening, so that the fire resistivity is not compromised and the fire divisions / walls within the building are in accordance with "Part T" in the South African National Standard : SANS 10400 - 2010 - Code of Practice for "The Application of the National Building Regulations"

Material

- : Mineral Wool – CP670
- : Intumescent Sealer – CP601S (Flexible)
– FS ONE MAX (All Rounder)
– CP606 (Rigid)
- : Fire Stop Collar – CFS-EL

Fire Stops (Steel Pipes)

Application

- : All annular gaps around the steel piping penetrating a fire wall, are to be tightly packed with mineral wool (CP670), and sealed with 10-15 mm of intumescent sealer (CP601S / FS ONE MAX / CP606) on either side of the fire wall to complete the installation and create a 120 minute fire rated fire wall (*in accordance with SANS 10177*)

Steel Pipe Sizes (Ø mm)

- : Ø22 to Ø100

Quantity

- : See Construction Drawings

Compliance

- : Testing and certification in accordance with SANS 10177, and classified in accordance with SANS 10177-2

Members:

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CET • ICMEE(SA) • IESSA • IPET • SAE • SAPH • SAIEE
Engineering Manager

DEBBIE LEE EVANS
Administration Manager

Purpose	: The fire stop is to be used to close up the penetrations created in a fire wall / fire barrier, by services or any other opening, so that the fire resistivity is not compromised and the fire divisions / walls within the building are in accordance with "Part T" in the South African National Standard : SANS 10400 - 2010 - Code of Practice for "The Application of the National Building Regulations"
Material	: Mineral Wool – CP670 : Intumescent Sealer – CP601S (Flexible) – FS ONE MAX (All Rounder) – CP606 (Rigid)
General Fire Stops	: For the hard to reach places (installations where mineral wool cannot be installed), the mineral wool can be replaced by Fire Expanding Foam (CP620) cut flush with the wall and sealed as per specifications above For protection of cables, cable trays, etc. penetrating fire walls, Cable Coating (CP678/9) is to be applied Where the top of wall joints are considered, mineral wool (CP670) is to be installed with Intumescent Sealer (CP606) applied to both sides of the fire wall The Fire Stop / System is to be manufactured and installed by a reputable company, with relevant experience in the manufacturing of fire systems etc. Approval of the manufacturing company should be obtained from the Consulting Mechanical Engineers prior to the placing of any orders / commencement of Works
Approved Product Fire Stops	: HILTI South Africa (Pty) Ltd : Mr. G (Gary) Udemans (080 002 3331)

UL SYSTEM NO. C-AJ-2109

PLASTIC PIPE THROUGH FLOOR/WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR. OR 3-HR.

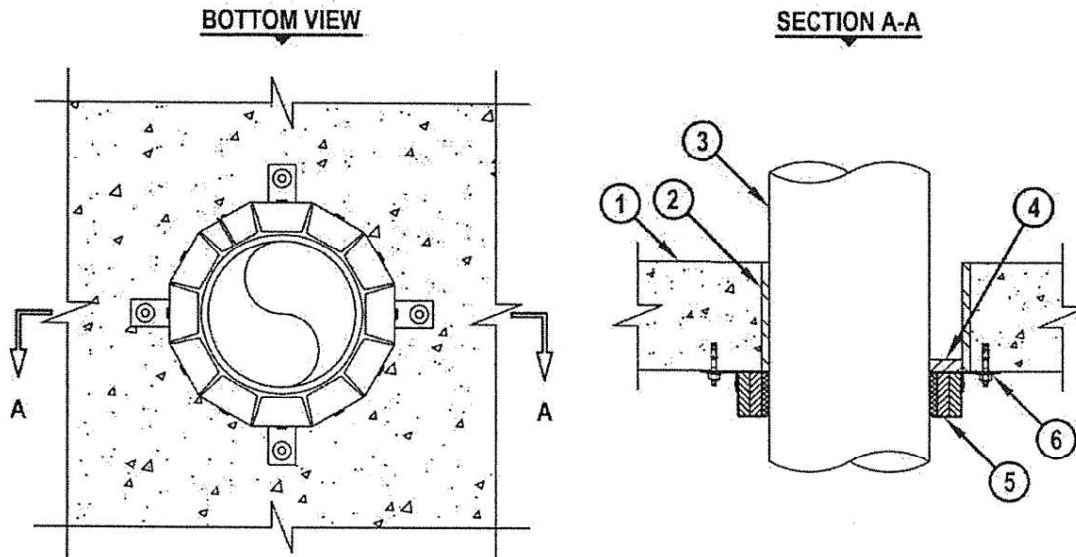
T-RATING = 0-HR., 2-HR., OR 3-HR.

L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT (SEE NOTE NO. 9 BELOW)

L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT (SEE NOTE NO. 9 BELOW)

W-RATING = CLASS I (SEE NOTES NO. 7 AND 8 BELOW)

CAJ2109s.122013



1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. OR 3-HR. FIRE-RATING) :
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
 - B. ANY UL CLASSIFIED CONCRETE BLOCK WALL.
2. [OPTIONAL] MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 40 OR HEAVIER) MAY EXTEND MAXIMUM 3" ABOVE FLOOR.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (ALSO SEE NOTE NO. 3 BELOW) :
 - A. MAXIMUM 10" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
 - B. MAXIMUM 10" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM ONLY).
 - C. MAXIMUM 6" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR OR SOLID CORE).
 - D. MAXIMUM 6" NOMINAL DIAMETER FRPP PLASTIC PIPE.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT, HILTI CP 604 SELF-LEVELING FIRESTOP SEALANT, HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT, OR HILTI CFS-S SIL SL FIRESTOP SILICONE SEALANT INSTALLED FLUSH WITH TOP OR BOTTOM SURFACE OF FLOOR.

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UL/cUL SYSTEM NO. C-AJ-1517

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL ASSEMBLY

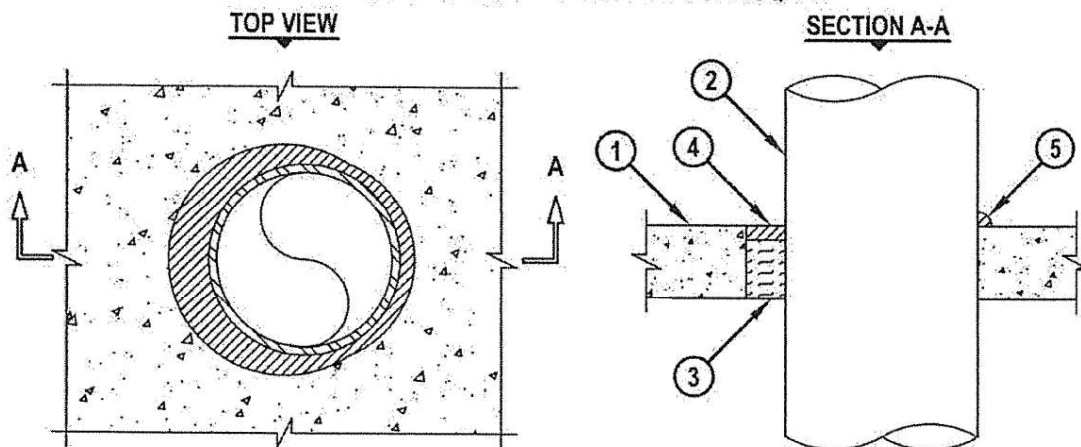
F-RATING = 2-HR.

T-RATING = 0-HR.

L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.

L-RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.

CAJ1517c-080510



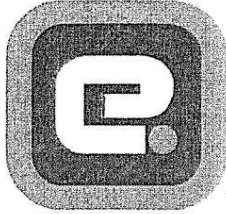
1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING) :
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 2-1/2" THICK).
 - B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
 - A. MAXIMUM 24" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 24" NOMINAL DIAMETER CAST IRON OR DUCTILE IRON PIPE.
 - C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
 - D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
 - E. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. MINIMUM 2" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE FIRESTOP SEALANT.
4. MINIMUM 1/2" DEPTH HILTI CP 606 FLEXIBLE FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI CP 606 FLEXIBLE FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 26".
 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2".
 3. MINIMUM 1/2" DEPTH HILTI CP 606 FLEXIBLE FIRESTOP SEALANT IS REQUIRED ON EACH SIDE OF A WALL ASSEMBLY.

Through Penetration

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Our File : DJE/Public/Engineering/Projects/2016/2016-272/Tender/Fire Curtain

Our Reference : Technical Specification (Fire Curtain) (Dish Washing Area)

**NTSONKOTHA SENIOR SECONDARY SCHOOL
IN LADY FRERE
BY INDEPENDENT DEVELOPMENT TRUST**

MECHANICAL ENGINEERING SERVICES

**SPECIFICATION FOR SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING AND
DEFECTS LIABILITY PERIOD OF THE COMPLETE FIRE CURTAIN INSTALLATION**

Fire Curtain

Type

: Fully automatic mechanically-driven fire curtain system fitted with a 24V DC failsafe motor to maintain a steady gravity fall of 0.08 m/s, including battery back-up, certified guide rod system for side guides, expansion joints to allow thermal movement, controls for fire signal from fire detection system, bottom bar with closure arrangement to ensure tight seal with table top, 120 minute heat stabilized coating for the fabric with a stainless steel inlay and all the necessary fixings, fasteners and installation consumables etc. to complete the installation and ensure a fire proof installation on completion (*in accordance with EN13501-2:2007 Regulations*)

Quantity

: One (1) off

Wall Opening Size (Width and Height)

: 1310 mm x 2000 mm (Height to be confirmed on site)

Head Box (Width and Height)

: 180 mm x 185 mm

Compliance

: Testing and certification in accordance with EN1634-1, and classified in accordance with EN13501-2:2007

Purpose

: The fire curtain is to be used for a fire barrier to divide the building up and create fire divisions within the building in accordance with "Part T" in the South African National Standard : SANS 10400 - 2010 - Code of Practice for "The Application of the National Building Regulations"

Material

: Heat stabilized fabric coating E120

Finish

: Stainless steel side guides

Control Panel

Type

: Wall mounted front access type panel
: The appointed Sub-contractor shall ensure that the Control Panel is constructed to fit into the space provided, that sufficient space is allowed for the cable ends and termination thereof

Operation

Manual

: Push button located on the face of the control panel to open / close the ventilators for manual override

Auto Mode

: On a fire signal from the fire detection system

Indicators

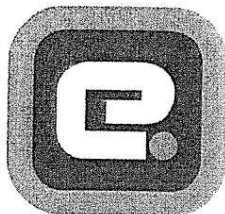
: Power On indicator, Fire Incident indication, System Initiated indicators, System Running indicators, System Fault indicators, Audible Alarm sounder and Red Stroboscopic Flashing Beacon

Members:

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CET • ICMEES(A) • IESSA • IPET • SAAE • SAFPHE • SAIEE
Engineering Manager

DEBBIE LEE EVANS
Administration Manager

Electrical Cables	<ul style="list-style-type: none"> : The wiring installation between the control panel and the fire curtain is to be temperature rated cabling to the necessary SABS / EN54 and SANS10142 standards. : All electrical cables between the Isolator provided for the control panel and the main electrical distribution board shall be supplied and installed by the appointed Electrical Sub-contractor
General	
Fire Curtain	<ul style="list-style-type: none"> : The Fire Curtain / System is to be manufactured and installed by a reputable company, with relevant experience in the manufacturing of fire systems etc. Approval of the manufacturing company should be obtained from the Consulting Mechanical Engineers prior to the placing of any orders / commencement of Works
Control Panel	<ul style="list-style-type: none"> : The control panel is to be manufactured and installed by a reputable company, with relevant experience in the manufacturing of electrical distribution boards, control panels, automatic mains failure panels, etc. Approval of the manufacturing company should be obtained from the Consulting Mechanical Engineers prior to the placing of any orders / commencement of Works : Detailed wiring diagrams and shop (manufacturing) drawings of the proposed Fire Curtain System is to be submitted to the Consulting Mechanical Engineers for approval, prior to manufacture : Approval of the wiring diagrams and shop (manufacturing) drawings by the Consulting Mechanical Engineers does not remove any responsibility from the appointed smoke ventilation system Sub-contractor to ensure the completeness and compliance of the Fire Curtain System
Operation and Maintenance Manuals	<ul style="list-style-type: none"> : Operation and Maintenance Manuals shall include (but not be limited to) a complete schematic diagram of the fire curtain operation, control circuitry and positions of Control Panel
Staff Training	<ul style="list-style-type: none"> : The appointed Fire Curtain System Sub-contractor shall allow for the training of the Client's personnel in the operation and routine maintenance of the complete fire curtain installation : The appointed Fire Curtain System Sub-contractor shall be responsible for the co-ordination of the training exercises and is to forward a copy of the attendance register to the Mechanical Engineer
Approved Product	
SI-E120 Single Fire Curtain	<ul style="list-style-type: none"> : Robertson Ventilation Industries (Pty) Ltd : Mr. M (Mark) Shear (031 563 3749)



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Our File : DJE/Public/Engineering/Projects/2016/2016-272/Tender/Fire Curtain
Our Reference : Technical Specification (Fire Curtain)

**NTSONKOTHA SENIOR SECONDARY SCHOOL
IN LADY FRERE
BY INDEPENDENT DEVELOPMENT TRUST
MECHANICAL ENGINEERING SERVICES**

**SPECIFICATION FOR SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING AND
DEFECTS LIABILITY PERIOD OF THE COMPLETE FIRE CURTAIN INSTALLATION**

**Fire Curtain
Type**

: Fully automatic mechanically-driven fire curtain system fitted with a 24V DC failsafe motor to maintain a steady gravity fall of 0.08 m/s, including battery back-up, certified guide rod system for side guides, expansion joints to allow thermal movement, controls for fire signal from fire detection system, bottom bar with closure arrangement to ensure tight seal with floor, 120 minute heat stabilized coating for the fabric with a stainless steel inlay and all the necessary fixings, fasteners and installation consumables etc. to complete the installation and ensure a fire proof installation on completion (*in accordance with EN13501-2:2007 Regulations*)

Quantity
Wall Opening Size (Width and Height)
Head Box (Width and Height)
Compliance

: One (1) off
: 6400 mm x 2000 mm (Height to be confirmed on site)
: 300 mm x 185 mm
: Testing and certification in accordance with EN1634-1, and classified in accordance with EN13501-2:2007

Purpose

: The fire curtain is to be used for a fire barrier to divide the building up and create fire divisions within the building in accordance with "Part T" in the South African National Standard : SANS 10400 - 2010 - Code of Practice for "The Application of the National Building Regulations"

Material
Finish

: Heat stabilized fabric coating E120
: Stainless steel side guides

**Control Panel
Type**

: Wall mounted front access type panel
: The appointed Sub-contractor shall ensure that the Control Panel is constructed to fit into the space provided, that sufficient space is allowed for the cable ends and termination thereof

Operation Manual

: Push button located on the face of the control panel to open / close the ventilators for manual override

Auto Mode

: On a fire signal from the fire detection system

Indicators

: Power On indicator, Fire Incident indication, System Initiated indicators, System Running indicators, System Fault indicators, Audible Alarm sounder and Red Stroboscopic Flashing Beacon

Members:

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CET • ICMF(SA) • IESSA • IPET • SAAE • SAFHE • SAIEE
Engineering Manager

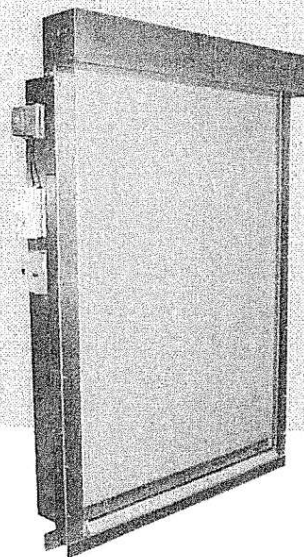
DEBBIE LEE EVANS
Administration Manager

Electrical Cables	<ul style="list-style-type: none"> : The wiring installation between the control panel and the fire curtain is to be temperature rated cabling to the necessary SABS / EN54 and SANS10142 standards. : All electrical cables between the Isolator provided for the control panel and the main electrical distribution board shall be supplied and installed by the appointed Electrical Sub-contractor
General	
Fire Curtain	<ul style="list-style-type: none"> : The Fire Curtain / System is to be manufactured and installed by a reputable company, with relevant experience in the manufacturing of fire systems etc. Approval of the manufacturing company should be obtained from the Consulting Mechanical Engineers prior to the placing of any orders / commencement of Works
Control Panel	<ul style="list-style-type: none"> : The control panel is to be manufactured and installed by a reputable company, with relevant experience in the manufacturing of electrical distribution boards, control panels, automatic mains failure panels, etc. Approval of the manufacturing company should be obtained from the Consulting Mechanical Engineers prior to the placing of any orders / commencement of Works : Detailed wiring diagrams and shop (manufacturing) drawings of the proposed Fire Curtain System is to be submitted to the Consulting Mechanical Engineers for approval, prior to manufacture : Approval of the wiring diagrams and shop (manufacturing) drawings by the Consulting Mechanical Engineers does not remove any responsibility from the appointed smoke ventilation system Sub-contractor to ensure the completeness and compliance of the Fire Curtain System
Operation and Maintenance Manuals	<ul style="list-style-type: none"> : Operation and Maintenance Manuals shall include (but not be limited to) a complete schematic diagram of the fire curtain operation, control circuitry and positions of Control Panel
Staff Training	<ul style="list-style-type: none"> : The appointed Fire Curtain System Sub-contractor shall allow for the training of the Client's personnel in the operation and routine maintenance of the complete fire curtain installation : The appointed Fire Curtain System Sub-contractor shall be responsible for the co-ordination of the training exercises and is to forward a copy of the attendance register to the Mechanical Engineer
Approved Product	
DH-E120 Multiple Fire Curtain	<ul style="list-style-type: none"> : Robertson Ventilation Industries (Pty) Ltd : Mr. M (Mark) Shear (031 563 3749)

COLT

FMI Fire Curtain Automatic Fire Curtain

Data Sheet



Smoke Control

THE PURPOSE OF A FIRE CURTAIN

The purpose of a fire curtain is to seal off an area to contain a fire and to prevent that fire from spreading to other areas. A fire curtain is used where, if there is a fire, it is necessary to create a temporary barrier within an opening. This barrier should not be visible at any other time.

THE COLT FMI FIRE CURTAIN

The Colt FMI Fire Curtain is low in weight and has minimal dimensions, which enables it to be installed easily in places with space constraints such as within a false ceiling.

The Colt FMI Fire Curtain automatically descends on receipt of a signal from the fire alarm panel or upon loss of power. Once this signal has been reset it automatically retracts.

CLASSIFICATION

The Colt FMI Fire Curtain has been tested to EN 1634-1 and is classified E60-C or EI20-C in accordance with EN 13501-2:2007.

E refers to integrity and C refers to a self-closing device (in other words, it unrolls in a gravity fail safe manner).

HOW THE COLT FMI FIRE CURTAIN WORKS

The fire curtain comprises a flexible heat resistant fabric which is impervious to smoke and hot gases, wound round a tube. The tube contains an electric motor which normally holds the curtain retracted at ceiling level.

Upon receiving a signal from the fire detection system or on loss of power the curtain automatically unwinds in a controlled, gravity failsafe manner. A heavy bottom bar is fitted to the bottom edge of the fabric to pull the curtain down, to keep the material taut and to provide a suitable finish when the curtain is retracted.

Metal side guides with a fabric retaining system provide a seal between the curtain fabric and the building. The fabric retaining system ensures that a seal is maintained and that the fabric does not spill out of the side guides under fire or other pressures.

FEATURES OF THE COLT FMI FIRE CURTAIN

- Third party testing and certification in accordance with EN 1634-1 (Warrington Fire)
- Two fire classification options: E 60 or E 120 integrity
- Certified guide rod system for side guides
- Heat stabilized coating for the fabric, with a stainless steel inlay for the E 120 option. Both E 60 and E 120 fabrics achieve the building classification A2 S1 d0 to EN 13501-2: 2007 ("Fire classification of construction products and building elements")
- Bottom bar with closure arrangement to ensure a tight seal even with uneven floors
- Expansion joints to allow for thermal movement incorporated into the design
- Removable access panel for headbox integral 24v DC drive assembly which maintains a steady rate of gravity failsafe fall (approx. 0.08 m/s)
- Two types of motor available (8 and 30 Nm overall torque)
- Simple controls to receive external fire signals and for testing
- Supplied in partly pre-assembled form for fast installation.

Architectural Solutions

Climate Control

Smoke Control

Service and Maintenance

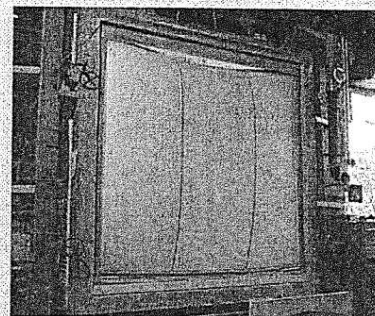
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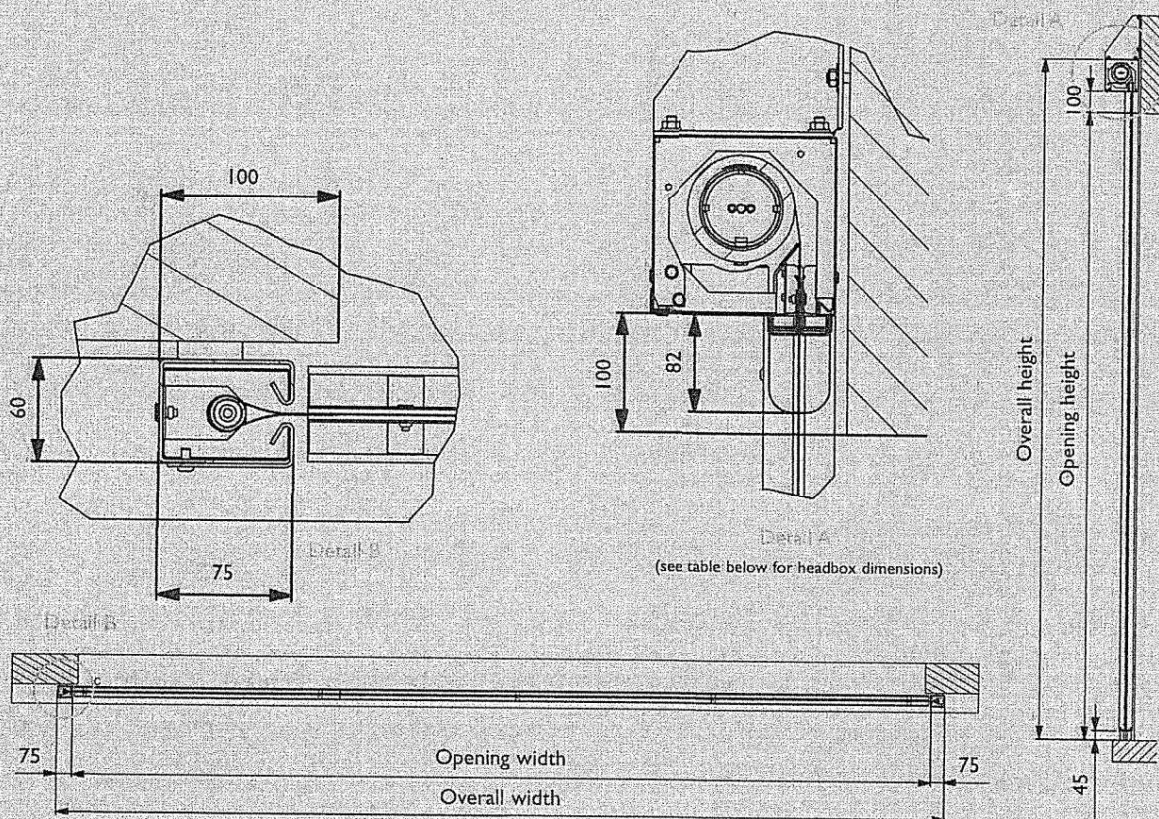
CONTROLS

There are a variety of control arrangements. One option is a simple control box with switches and an indication lamp. Another option is for a smoke detector to be connected directly to this control box. A third option is for the local control box to be connected to the central fire detection system with a voltage free contact. Lights and sounders can also be supplied.

There is an option to include a battery back-up to retain the curtain in its retracted position for a set period if there is mains failure.



FMI Fire Curtain under test



MAXIMUM DIMENSIONS (mm)

Note that the standard tested unit is max. 3000 x 3000mm. Larger sizes may require an expert opinion in order to remain within the standard EN 13501-2 certification.

Curtain Type	Maximum Width (mm)	Maximum Height (mm)	Headbox Dimensions (mm)
SI-E60 (single curtain, 60 minutes integrity*)	5000	4500	155 W x 150 H
SI-E120 (single curtain, 120 minutes integrity*)	5000	4500	180 W x 185 H
DH-E60 (multiple curtain, double horizontal headbox, 60 minutes integrity)	From 5000 up to any length	3000	250 W x 150 H
DH-E120 (multiple curtain, double horizontal headbox, 120 minutes integrity)	From 5000 up to any length	3000	300 W x 185 H
DV-E60 (multiple curtain, double vertical headbox, 60 minutes integrity)	From 5000 up to any length	3000	155 W x 250 H
DV-E120 (multiple curtain, double vertical headbox, 120 minutes integrity)	From 5000 up to any length	3000	180 W x 300 H

Minimum dimensions are 1000 x 1000 mm in each case.

* In accordance with EN 1634-1.

REINFORCED RAFT FOUNDATIONS

PROCEDURES AND ACCEPTANCE CRITERIA

The purpose of the procedures and requirement below are to reduce the risk to both the Client and the Contractor. It ensures that the completed foundations are accurately constructed within specifications with the minimum waste of materials and time.

The implications of the requirements must be understood before work commences. Contact the Project Engineer if any clarifications are required.

1. Protection of excavations

The contractor must allow in his pricing for the protection of excavations for raft foundations. Caving of edges of ground beam excavations will lead to wastage of concrete with substantial cost implications to the contractor.

Various methods can be adopted by the contractor to protect against caving in. The following are possible measures that can be considered:

- Laying down of scaffold planks on edges of trenches for ground beams.
- Cement stabilizing the 150mm gravel layer under the floor slab to limit caving in of edges.

The contractor must also be aware of the installation of insulation materials under the reinforced slabs and to the sides of ground beams. These insulation boards are fragile and care must be taken during fixing of reinforcing and placing of concrete. It may require the provision of gang planks over work areas during construction.

Regardless of the construction methods and protection measures adopted, it will be deemed to be included in the tendered rates.

2. Earthworks Platforms

Before the commencement of the excavations for the raft foundation, the following must be complied with:

- The position and level of the platform must be surveyed and confirmed by a competent registered land surveyor or engineering surveyor in writing to the Engineer.
- Positions and levels of platform must be in accordance with SANS 2001-BE1: 2008 Earthworks General Table 1, Degree of Accuracy I, subject to the further tolerances below.
- Final Platform levels **under raft foundations** must be within the following vertical tolerances:

- Permissible Deviation from design level in any position = + 5mm and minus 20mm.
- Permissible Deviation under 3m straight edge = 15mm
- The quality of the fill material used must be confirmed in writing to the Engineer.
- Compaction test must prove that compaction specifications have been reached.
- The surface of the platform must be uniform and neatly trimmed with no loose material or silt.

Excavations for ground beams may only commence when all of the above has been complied with and the Engineer has given written consent for excavations to commence.

3. Raft foundation Construction.

The contractor must have sufficient shuttering on site to shutter the complete section of the raft foundation between the expansion joints shown on the drawings. The shuttering must be sturdy and properly anchored to prevent any movement during placing of concrete. Makeshift shuttering will not be allowed.

Before any inspection by the Engineer is requested by the Contractor, the following must be complied with:

- All shuttering must be fixed in final position.
- The quality of the earthworks below must have been confirmed in writing (density, material quality and position)
- A calibrated laser level that will be used during the placing of the concrete must be available on site.
- The positions of shutters must be checked and confirmed by measuring with a calibrated steel tape by a competent person and confirmed in writing that the check has been done.
- All reinforcing must be securely fixed in correct positions and cover blocks must be provided to ensure correct cover.
- Damp course and/or insulation boards must be in final position and all holes patched.
- All dirt and loose material must be removed.
- All services to be cast into the raft foundation must be in position and approved by the Architect or Electrical Engineer.

The relevant documentation and written confirmation (quality control check sheet, photographic record etc.) must be in possession of the Engineer before a request for an inspection can be lodged. Notice of at least 48 hours falling within a work week must be given.

After the placing of concrete and finishing of the floor surface, an approved curing compound must be applied to the finished floor surface.

4. Dimensional Acceptance Criteria








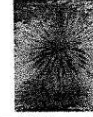

The final completed raft foundation must comply with the following tolerances:




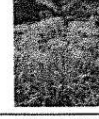
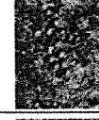

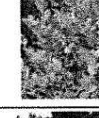
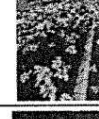
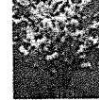
Description	Tolerance
Edge Positions	
Permissible Deviation from any horizontal design dimension	±15mm
Out of square in Plan	±20mm over 30m (0'02'17")
Floor Levels	
Permissible Deviation from design level at any position on floor	±10mm
Permissible Deviation between any two points 6m apart	5mm
Permissible Deviation under a 3m straight edge	3mm

5. Materials Acceptance Quality

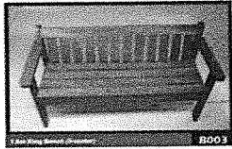

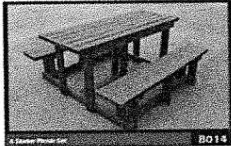
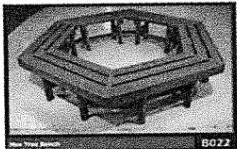
- If power floated surfaces are required, these must be free of irregularities, pitting and honey combing and suitable to receive the specified floor finishes.
- Concrete strengths must be achieved and shrinkage cracks must be absent.
- Any repairs must be done with non-shrink cementitious products with prior approval of the Engineer.

Ntsonkotha SSS: Schedule of Plants

TYPE	DESCRIPTION	COMMON NAME	QUANTITY
A	Podocarpus 	Yellowwood Tree	2
B	Celtis Africana 	White Stinkwood Tree	2
C	Olea Europa 	Wild Olive Tree	4
D	Acacia Xanthophloea 	Fever Tree	4
E	Freylinia (blue shrub) 	Blue Honeybells	0
F	Westringia (white) 	Australian Rosemary	0
G	Clivia (orange) 		5
H	Agave Germiniflora 	Twin flowered Agave	5
I	Dieties (yellow) 		5

TYPE	DESCRIPTION		COMMON NAME	QUANTITY
J	New Zealand Flax		Phormium Rubra	0
K	Philodendron Xanadu			8
L	Strelitzia		Crane Flower	0
M	Agapanthus		Lily of the Nile	8
N	Carissa Haematocarpa		Karoo num-num	20
O	Shefflera Arboricola		Umbrella tree	5
P	Buxus Faulkner		Boxwood	20
Q	Dieties Grandiflora		Large wild iris	0
R	Viburnum			0

Outdoor Furniture Schedule

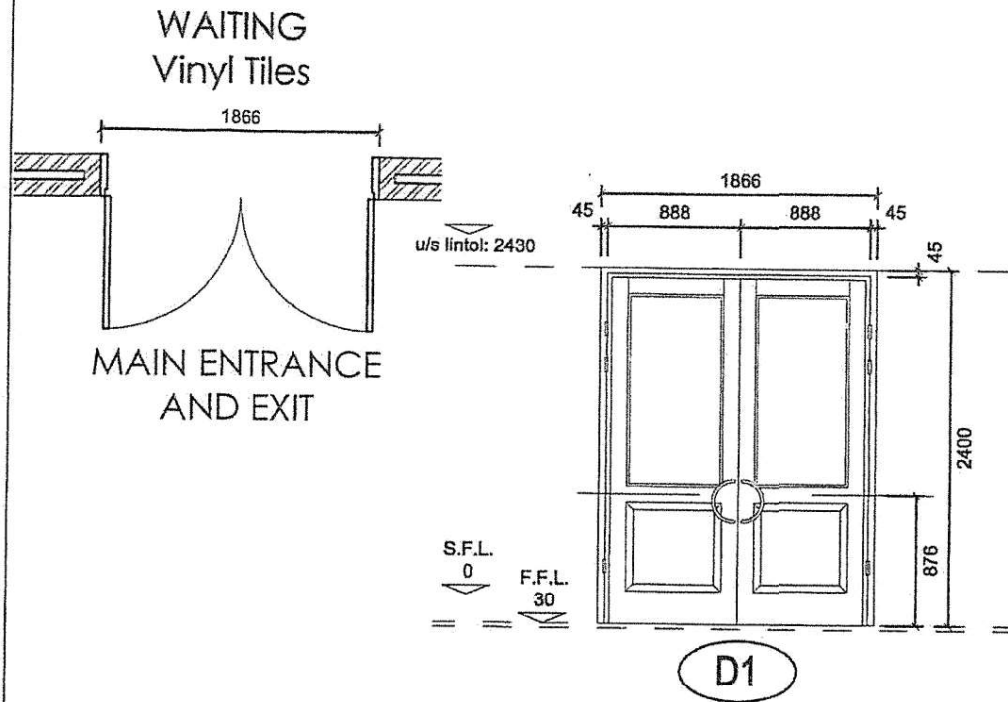
QUANTITY	DESCRIPTION	TYPE	LOCATION
	Outdoor Furniture		
10	1.8m king bench (3 seater) 	B 003	Boys/ Girls Hostels Courtyards
10	1.6m sleeper bench without back 	B 007	Walkways
10	Picnic set (6 seater) 	B 014	Dining Boys/ Girls Hostels
6	Hex tree bench 	B 022	Dining Boys/ Girls Hostels

ANNEXURE I - DRAWINGS

Project title:	NTSONKOTHA SENIOR SECONDARY SCHOOL
Bid No:	xxxxxx

NO.	DRAWINGS			
1	Door Schedule - Double Door - Outward Opening Main Entrance Foyer	DI	-	IDT/NTS/DS/5.100
2	Door Schedule - Double Door - Outward Opening Main Entrance Foyer leading to Courtyard, Dorms, Computer/Study Area, TV Lounge	D2	-	IDT/NTS/DS/5.101
3	Door Schedule - Double Door - Outward Opening Fire Exit	D3	-	IDT/NTS/DS/5.102
4	Door Schedule	D4	-	IDT/NTS/DS/5.103
5	Door - Schedule	D9	-	IDT/NTS/DS/5.104
6	Door Schedule - Double Door - Outward Opening Main Entrance Foyer	DII	-	IDT/NTS/DS/5.105
7	Door Schedule - Single Door - Double Swing Door Severy/Cookery	D13	-	IDT/NTS/DS/5.106
8	Door Schedule - Double Door - Double Swing Door Dining Hall	D15	-	IDT/NTS/DS/5.107
9	Door Schedule - Single Rollup Garage Door Caretakers Workshop	D17	-	IDT/NTS/DS/5.108
10	Door Schedule - Single Gate Bin Areas	GI	-	IDT/NTS/DS/5.109
11	Door Schedule	D5	-	IDT/NTS/DS/5.110
12	Door Schedule	D6	-	IDT/NTS/DS/5.111
13	Door Schedule	D7	-	IDT/NTS/DS/5.112
14	Door Schedule	D8	-	IDT/NTS/DS/5.113
15	Door Schedule - Double Door - Outward Opening Main Entrance Foyer	D10	-	IDT/NTS/DS/5.114
16	Door Schedule - Double Door - Double Swing Door Dining Hall	D12	-	IDT/NTS/DS/5.115
17	Door Schedule	D14	-	IDT/NTS/DS/5.116
18	Door Schedule - Double Door - Double Swing Door Generator, LV & Transformer Rooms	D16	-	IDT/NTS/DS/5.117
19	Door Schedule - Double Door - Double Folding Door Dining Hall (Server)	D18	-	IDT/NTS/DS/5.118
20	Door Schedule - Double Door - Outward Opening Main Entrance Foyer leading to Courtyard, Dorms, Computer/Study Area, TV Lounge	D2	-	IDT/NTS/DS/5.101
21	Door Schedule - Double Door - Double Folding Door Dining Hall (Server)	D19	-	IDT/NTS/DS/5.119
22	Window Schedule - Ablutions	W1	-	IDT/NTS/WS/6.100
23	Window Schedule - Dormitories	W2	-	IDT/NTS/WS/6.101

NO.	DRAWINGS			
24	Window Schedule - Dormitories	W3	-	IDT/NTS/WS/6.102
25	Window Schedule - Dormitories	W4	-	IDT/NTS/WS/6.103
26	Window Schedule - Dormitories	W5	-	IDT/NTS/WS/6.104
27	Window Schedule - Dormitories	W6	-	IDT/NTS/WS/6.105
28	Window Schedule - Caretakers Workshop	W7	-	IDT/NTS/WS/6.106
29	Window Schedule - General Office	W9	-	IDT/NTS/WS/6.107
30	Window Schedule - General Office	W10	-	IDT/NTS/WS/6.108
31	Window Schedule - Bin Areas	L1	-	IDT/NTS/WS/6.109
32	Window Schedule – Generator, Transformer Rooms	L2	-	IDT/NTS/WS/6.110
33	Site Development Plan Water, Sewerage and Electricity	A1	-	IDT/NTS/S/1.101
34	Boys – Ground Floor Key Plan	A1	-	IDT/NTS/BOYS/2.101
35	Dormitory Elevations	A0	-	IDT/NTS/BOYS/2.104
36	Dormitory Sections	A0	-	IDT/NTS/BOYS/2.105
37	Dormitory Sections	A0	-	IDT/NTS/BOYS/2.106
38	Typical Section	A1	-	IDT/NTS/BOYS/2.107
39	Girls – Ground Floor Key Plan	A1	-	IDT/NTS/GIRLS /2.201
40	Girls – Dormitory Elevations	A0	-	IDT/NTS/GIRLS/2.204
41	Ground Floor Plan – Hall/Dining/Kitchen	A1	-	IDT/NTS/HKL/2.301
42	Elevations	A1	-	IDT/NTS/HKL/2.302
43	Sections	A1	-	IDT/NTS/HKL/2.303
44	Detail Sections	A1	-	IDT/NTS/HKL/2.305
45	Hall/Dining/Kitchen	A1	-	IDT/NTS/CARE/2.401
46	Sections	A1	-	IDT/NTS/EB/2.501
47	Door Schedule	D18	-	IDT/NTS/D5/5.118
48	Door Schedule	D20	-	IDT/NTS/D5/5.120
49	Joinery A	-	-	IDT/NTS/J/3.101
50	Joinery B	-	-	IDT/NTS/J/3.102
51	Joinery C	-	-	IDT/NTS/J/3.103
52	Joinery D	-	-	IDT/NTS/J/3.104
53	Joinery F	-	-	IDT/NTS/J/3.106



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D1	FRAME	White Powder Coated frame. 280mm Wall thickness.
NO. REQ.	??	FINISH	White Powder Coated.
POSITION NO.	DOUBLE DOOR: OUTWARD OPENING MAIN ENTRANCE FOYER	IRONMONGERY	As per Schedule.
DESCRIPTION	White Powder coated Aluminium door to suit opening size 1866mm (WIDE) & 2400mm (HIGH). Wall thicknes 280mm	REMARKS	Door to open outward. In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
FINISH	White Powder Coated.	SILL	Refer to sill detail.
GLAZING	Safety glass as per AAAMSA Specifications.		
DOOR STOP & KEY CONTROL			
SECURITY	As per manufacturer		

DOOR SCHEDULE

REV
NO

SCALE
1:50

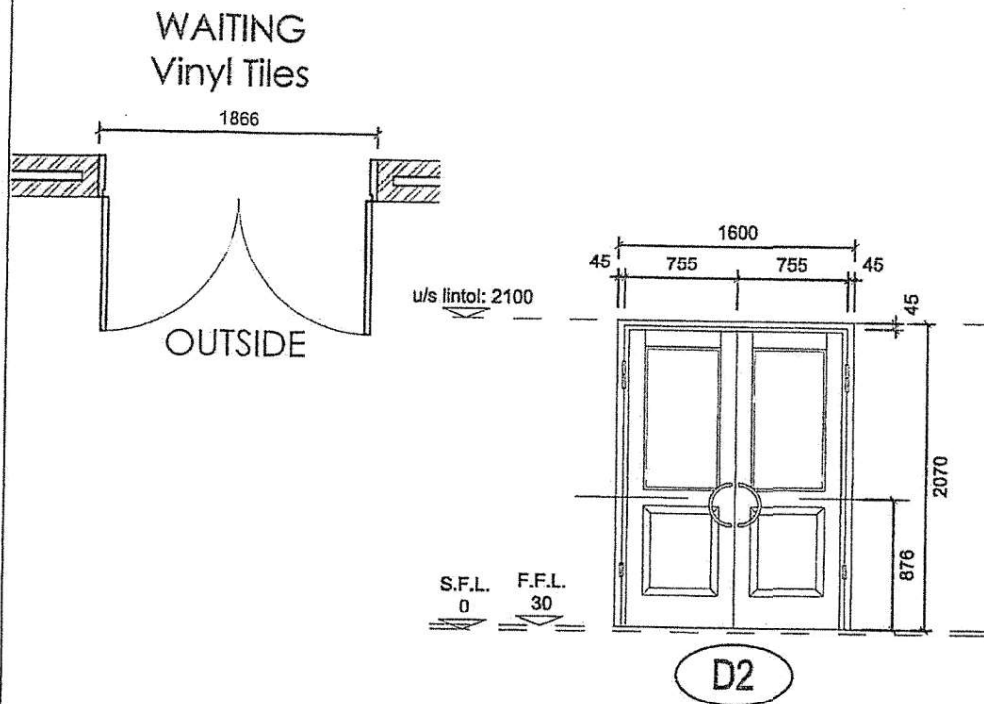
D1

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.100

DRAWN
SJack
DATE
2016/10/31

Ngonyama Okpanum
& Associates
ARCHITECTURE PROJECT MANAGEMENT DESIGN INTERIOR DESIGN



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D2	FRAME	White Powder Coated frame. 280mm Wall thickness.
NO. REQ.	??	FINISH	White Powder Coated.
POSITION NO.	DOUBLE DOOR: OUTWARD OPENING MAIN ENTRANCE FOYER (LEADING TO COURTYARD) MAIN ENTRANCE FOYER (LEADING TO DORMS) COMPUTER / STUDY AREA TV LOUNGE	IRONMONGERY	As per Schedule.
DESCRIPTION	White Powder coated Aluminium door to suit opening size 1600mm (WIDE) & 2400mm (HIGH). Wall thickness 280mm	REMARKS	Door to open outward. In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
FINISH	White Powder Coated.	SILL	Refer to sill detail.
GLAZING	Safety glass as per AAAMSA Specifications.		
DOOR STOP & KEY CONTROL			
SECURITY	As per manufacturer		

DOOR SCHEDULE

REV NO

-

SCALE

1:50

D2

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/DS

DWG NUMBER
IDT/NTS/DS/5.101

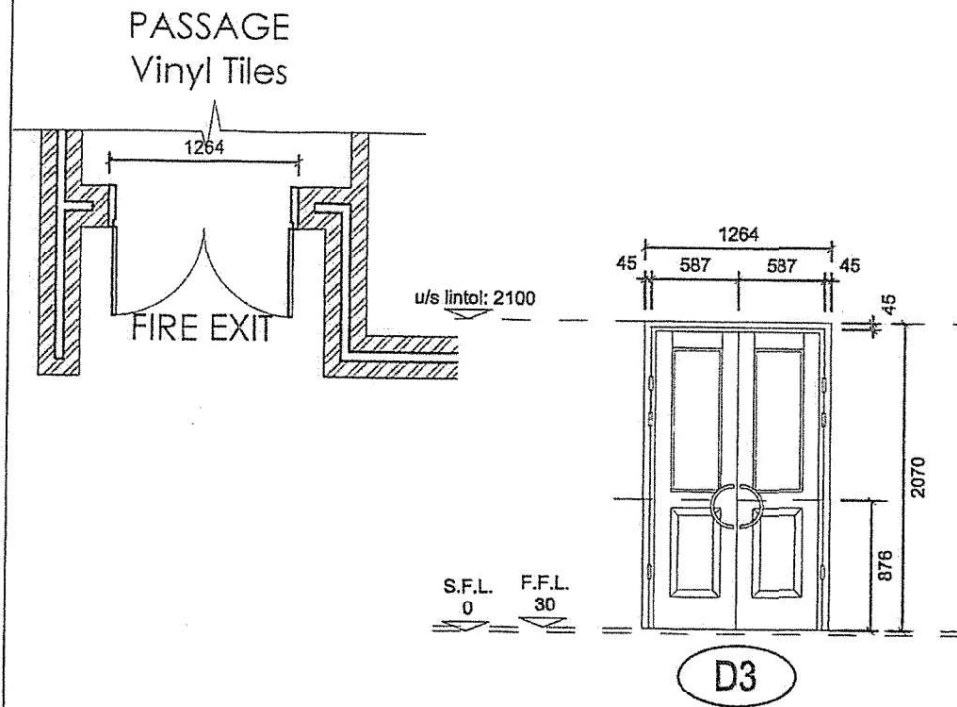
DRAWN
SJack

DATE
2016/10/31



Ngonyama Okpanum
& Associates

INTERIOR DESIGN, ARCHITECTURE, ENGINEERING, PROJECT MANAGEMENT



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D3	FRAME	White Powder Coated frame. 280mm Wall thickness.
NO. REQ.	??	FINISH	White Powder Coated.
POSITION NO.	DOUBLE DOOR: OUTWARD OPENING FIRE EXIT	IRONMONGERY	As per Schedule.
DESCRIPTION	White Powder coated Aluminium door to suit opening size 1264mm (WIDE) & 2100mm (HIGH). Wall thicknes 280mm	REMARKS	Door to open outward. In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
FINISH	White Powder Coated.	SILL	Refer to sill detail.
GLAZING	Safety glass as per AAAMSA Specifications.		
DOOR STOP & KEY CONTROL			
SECURITY	As per manufacturer		

DOOR SCHEDULE

REV
NO

SCALE
1:50

D3

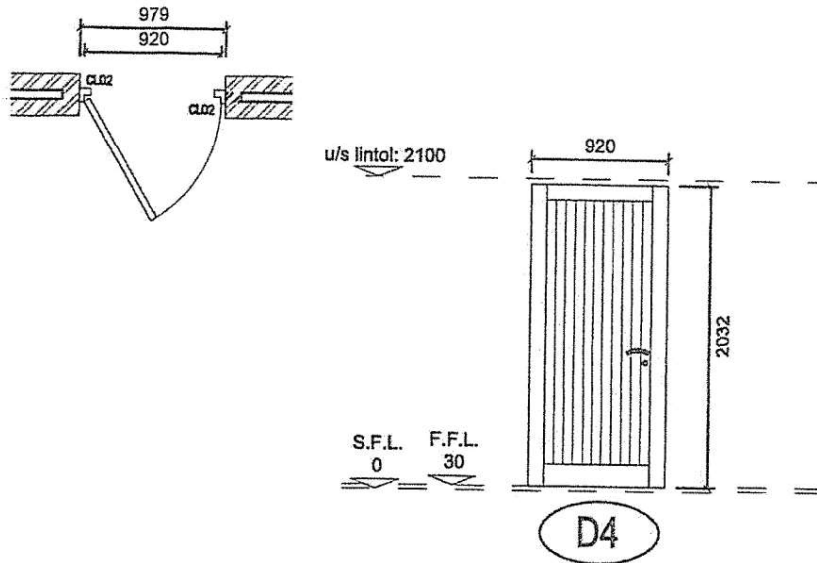
NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.102

DRAWN
SJack
DATE
2016/10/31



Ngonyama Okpanum
& Associates



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D4	FRAME	INTO BRICK WALLS 44x94mm Single Rebated Hardwood / Meranti door frame suitable for SWARTLAND PD1 door. Frame built into 110mm/280mm brickwork with galvanized hoop irons screwed to frame & turned into brickwork.
NO. REQ.	??	FINISH	1x Coat Nova Dark Brown 55 Sealer to door frame allround before being built in, followed by 2x Coats sanded lightly between coats
POSITION NO.	RIGHT HAND DOOR ?? LEFT HAND DOOR ??	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	920x2032x44mm Braced & Ledged timber Meranti door by SWARTLAND PD1 with flush panel on both sides. 22mm thick braced & ledged with backing	SILL	Refer to sill detail.
FINISH	Sand smooth and prepare for :- 3x Coats Nova Dark Brown 55 Sealer		
GLAZING	Nil.		
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S


REV
NO

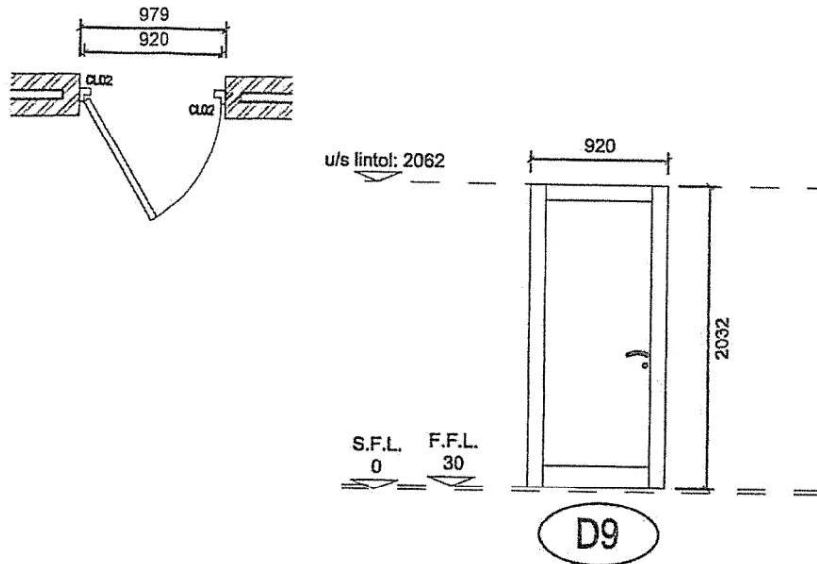
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D4

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.103

DRAWN
SJack
DATE
2016/10/31

 Ngonyama Okpanum
& Associates



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D9	FRAME	INTO BRICKWALLS 44x94mm Single Rebated Hardwood / Meranti door frame suitable for SWARTLAND PD1 door. Frame built into 110mm/280mm brickwork with galvanized hoop irons screwed to frame & turned into brickwork.
NO. REQ.	??	FINISH	1x Coat Nova Dark Brown 55 Sealer to door frame allround before being built in, followed by 2x Coats sanded lightly between coats
POSITION NO.	RIGHT HAND DOOR ?? LEFT HAND DOOR ??	REMARKS	In accordance with SABS 0137-2000 Code of Practice
DESCRIPTION	920x2032x44mm Braced & Ledged timber Meranti door by SWARTLAND PD1 with 22mm thick flush panel on both sides. Door to have weather board.	SILL	Refer to sill detail.
FINISH	Sand smooth and prepare for :- 3x Coats Nova Dark Brown 55 Sealer		
GLAZING	Nil.		
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S

REV
NO

-

SCALE

1:50

D9

PROJECT NUMBER
IDT/NTSO/DS

DWG NUMBER
IDT/NTS/DS/5.104

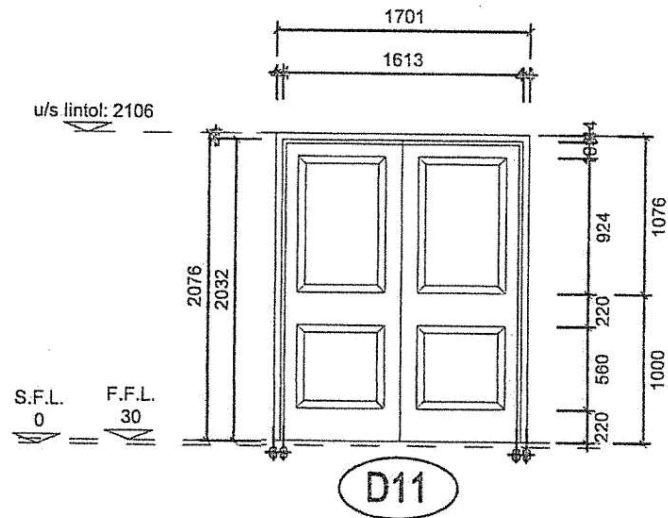
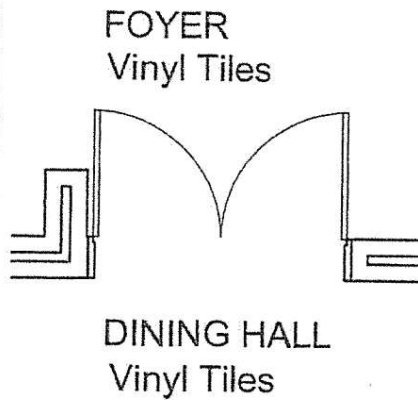
DRAWN
MMY

DATE
2016/11/16



Ngonyama Okpanum
& Associates

REGISTERED PRODUCT MANAGER, URBAN DESIGNER, INTERIOR DESIGNER



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D11	FRAME	REBATED SELECTED RED MERANTI HARDWOOD FRAME WITH 108 x 65mm DOORFRAME STYLE SIZES WITH No. 3 x 30mm WIDE x 300mm LONG HOOP IRON LUGS, FIXED WITH STEEL NAILS TO EACH STYLE AND BUILT INTO BRICKWORK. 19mm MATCHING RED MERANTI QUADRANT TRIM TO INTERNAL JUNCTION OF FRAME/ WALL. ALL TO BE VARNISHED TO ARCHITECTS SPECIFICATION.
NO. REQ.	??	FINISH	-
POSITION NO.	DOUBLE DOOR: OUTWARD OPENING MAIN ENTRANCE FOYER	IRONMONGERY	As per Schedule.
DESCRIPTION	2032 x 1613 x 44mm SOLID FIELDIED PANEL MERANTI DOUBLE DOOR WITH REBATED MEETING STYLES. 108mm WIDE TOP RAIL AND SIDE STILES AND 220mm WIDE LOCKING AND BOTTOM RAILS. FIELDIED TIMBER PANEL ABOVE AND BELOW LOCKING RAIL. ALL SIDES AND CONCEALED EDGES TO BE PREPARED FOR VARNISHING PRIOR TO DOOR BEING BUILT IN. COLOUR TO ARCHITECT'S APPROVAL. ALL JOINTS TO BE MORTICE & TENON	REMARKS	Door to open outward. In accordance with SABS 0137-2000 Code of Practice
FINISH	-	SILL	Refer to sill detail.
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S

REV
NO

-

SCALE
1:50

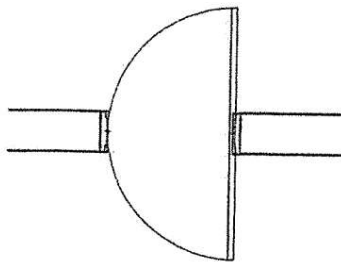
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PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.105

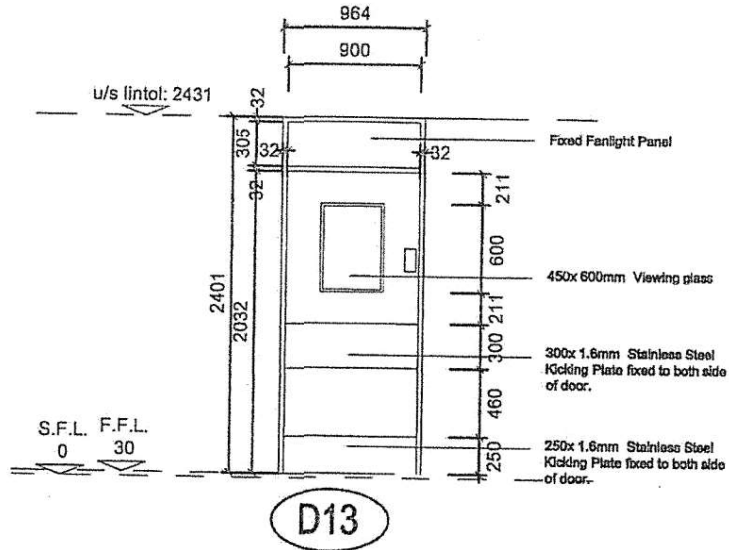
DRAWN
MMY
DATE
2016/11/16

Ngonyama Okpanum
& Associates
ARCHITECT/PROJECT MANAGER/URBAN/RESIDENTIAL/INTERIOR DESIGNER

SERVERY / COOKERY Vinyl Tiles



COOKING Vinyl Tiles



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D13	FRAME	70x 108mm MERANTI SINGLE DOOR FRAME WITH HALF ROUND SHAPE TO TAKE SHAPED DOOR, COMPLETE WITH BASE TIES AND FIXING LUGS. FRAME TO SUIT 230mm FACEBRICK WALL. 2 COATS PLASCON VELVAGLO ENAMEL. ALL APPLIED TO MANUFACTURER'S SPECIFICATION. COLOUR TO ARCHITECT'S APPROVAL.
NO. REQ.	??	FINISH	-
POSITION NO.	SINGLE DOOR: DOUBLE SWING DOOR SEVERY / COOKERY	IRONMONGERY	As per Schedule.
DESCRIPTION	2032 x 900 x 44mm SOLID CORE COMMERCIAL PLY FLUSH PANEL SINGLE DOOR WITH 10mm HARDWOOD EDGES. 450x600mm GLASS VIEWING PANELS GLAZED WITH 6mm CLEAR LAMINATED SAFETY GLASS AS SHOWN IN NEOPRENE GASKET. S/S KICKING PLATES AND BUMPING PLATES AS SHOWN. EDGES ALL TO BE PREPARED AND APPLY 1 COAT UNIVERSAL UNDERCOAT, 2 COATS PLASCON VELVAGLO ENAMEL. ALL APPLIED TO MANUFACTURER'S SPECIFICATION. COLOUR TO ARCHITECT'S APPROVAL.	REMARKS	Door double swing. In accordance with SABS 0137-2000 Code of Practice
FINISH	-	SILL	Refer to sill detail.
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S

REV
NO


-

SCALE
1:50

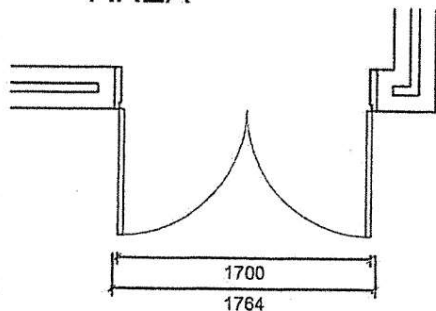
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PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.106

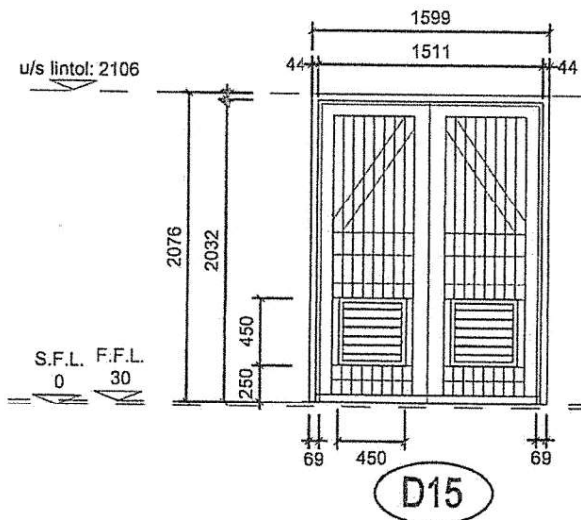
DRAWN
MMY
DATE
2016/11/16

 Ngonyama Okpanum
& Associates
REGISTERED ARCHITECTS (PRACTICE) NO. 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 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2865, 2866, 2867, 2868, 2869, 2870, 2871

GOODS RECEIVING
AREA



DELIVERIES / STAFF
ENTRANCE / EXIT



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D15	FRAME	REBATED SELECTED RED MERANTI HARDWOOD FRAME WITH 108 x 65mm DOORFRAME STYLE SIZES WITH No. 3 x 30mm WIDE x 300mm LONG HOOP IRON LUGS, FIXED WITH STEEL NAILS TO EACH STYLE AND BUILT INTO BRICKWORK. 19mm MATCHING RED MERANTI QUADRANT TRIM TO INTERNAL JUNCTION OF FRAME/ WALL. ALL TO BE VARNISHED TO ARCHITECTS SPECIFICATION. 44 x 108mm MERANTI REBATED & SPLAYED WEATHERBAR SOLID BRASS SCREWED TO DOOR
NO. REQ.	??	FINISH	-
POSITION NO.	DOUBLE DOOR: DOUBLE SWING DOOR DINING HALL	IRONMONGERY	As per Schedule.
DESCRIPTION	2032 x 1511 x 44mm SOLID MERANTI FLBB DOUBLE HARDWOOD DOOR WITH REBATED MEETING STYLES. TOP, BOTTOM & MIDDLE RAILS & DIAGONAL BRACING; T & G VERTICAL BOARDING (22mm THICK). VARNISHING TO BOTH SIDES AND CONCEALED EDGES. 450 X 450mm NATURAL ANODISED ALUMINIUM VENT GRILLE SLOTTED IN DOOR AS INDICATED WITHIN 108mm MERANTI TOP AND BOTTOM FRAME. ALL JOINTS TO BE MORTICE & TENON. DOOR TO HAVE WEATHER BOARD.	REMARKS	Door double swing. In accordance with SABS 0137-2000 Code of Practice
FINISH	-	SILL	Refer to sill detail.
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S

REV
NO


-

SCALE
1:50

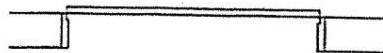
D15

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.107

DRAWN
MMY
DATE
2016/11/16

 Ngonyama Okpanum
& Associates

CARETAKERS WORKSHOP



u/s lintol: 2106

2400

2095

2125

ENTRANCE / EXIT

S.F.L. F.F.L.
0 30

D17

SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D17	FRAME	????
NO. REQ.	2	FINISH	-
POSITION NO.	SINGLE ROLLUP GARAGE DOOR CARETAKERS WORKSHOP	IRONMONGERY	As per Schedule.
DESCRIPTION	???	REMARKS	In accordance with SABS 0137-2000 Code of Practice
FINISH	-	SILL	Refer to sill detail.
SECURITY	As per manufacturer		

DOOR SCHEDULE

REV NO

SCALE

1:50

D17

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/DS

DWG NUMBER
IDT/NTS/DS/5.108

DRAWN
MMY

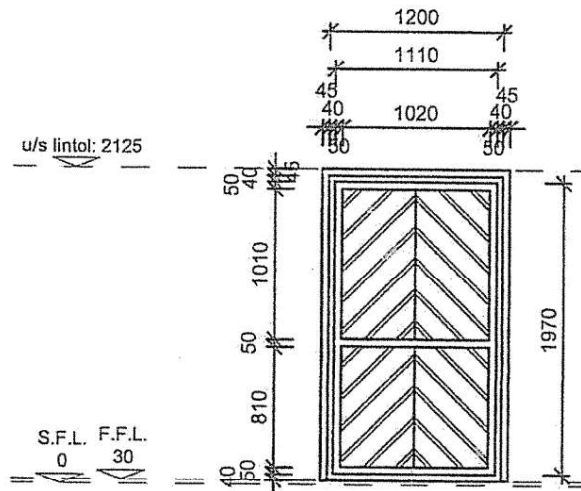
DATE
2016/11/16



Ngonyama Okpanum
& Associates

REGISTERED PROJECT MANAGER, NQF LEVEL 8, NQF 80240150, NQF 80240150

ENTRANCE / EXIT



G1

SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	G1	FRAME	????
NO. REQ.	5	FINISH	-
POSITION NO.	SINGLE GATE	IRONMONGERY	As per Schedule.
	BIN AREAS	REMARKS	In accordance with SABS 0137-2000 Code of Practice
DESCRIPTION	???	SILL	Refer to sill detail.
FINISH	-		
SECURITY	As per manufacturer		

DOOR SCHEDULE

REV NO
-


SCALE
1:50

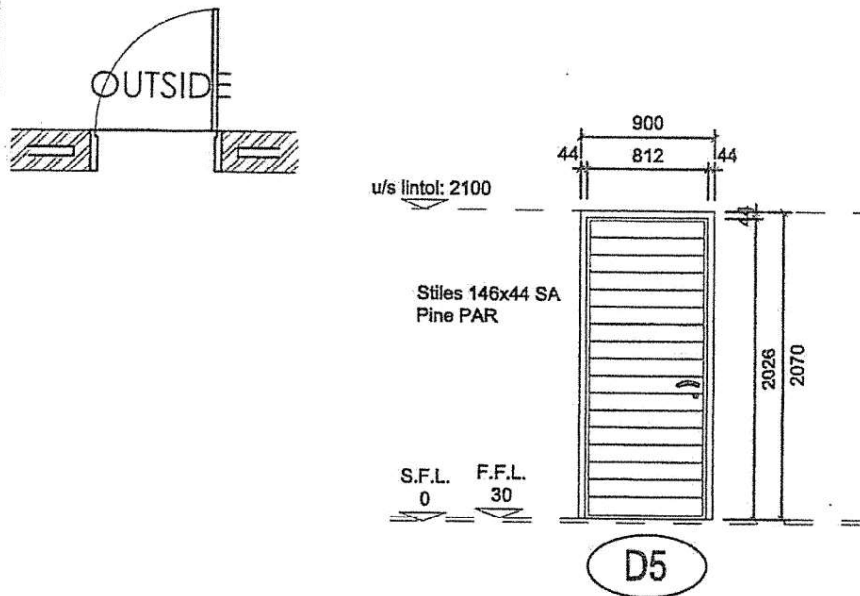
G1

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.109

DRAWN
MMY
DATE
2016/11/16

 Ngonyama Okpanum
& Associates
ARCHITECTURE PROJECT MANAGEMENT DESIGN CONSTRUCTION INTERIOR DESIGN



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D5	FRAME	INTO BRICKWALLS 44x94mm Single Rebated Hardwood / Meranti door frame suitable for SWARTLAND PD1 door. Frame built into 110mm/280mm brickwork with galvanized hoop irons screwed to frame & turned into brickwork.
NO. REQ.	??	FINISH	1x Coat Nova Dark Brown 55 Sealer to door frame allround before being built in, followed by 2x Coats sanded lightly between coats
POSITION NO.	RIGHT HAND DOOR ?? LEFT HAND DOOR ??	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	813x2032x44mm Techline Horizontal hardwood / Meranti door by TDM	SILL	Refer to sill detail.
FINISH	Sand smooth and prepare for :- 3x Coats Nova Dark Brown 55 Sealer		
GLAZING	Null.		
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S

REV
NO

-

SCALE

1:50

D5

PROJECT NUMBER
IDT/NTSO/DS

DWG NUMBER
IDT/NTS/DS/5.110

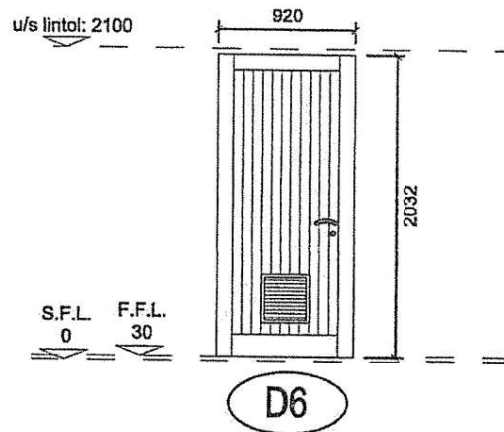
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SJack

DATE
2016/10/31



Ngonyama Okpanum
& Associates

CONSULTANTS PROJECT MANAGERS DESIGNERS CONTRACTORS



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D6	FRAME	INTO BRICK WALLS 44x94mm Single Rebated Hardwood / Meranti door frame suitable for SWARTLAND PD1 door. Frame built into 110mm/280mm brickwork with galvanized hoop irons screwed to frame & turned into brickwork.
NO. REQ.	??	FINISH	1x Coat Nova Dark Brown 55 Sealer to door frame allround before being built in, followed by 2x Coats sanded lightly between coats
POSITION NO.	RIGHT HAND DOOR ?? LEFT HAND DOOR ??	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the Installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	920x2032x44mm Braced & Ledged timber Meranti door by SWARTLAND PD1 with flush panel on both sides. 22mm thick braced & ledged with backing	SILL	Refer to sill detail.
FINISH	Sand smooth and prepare for :- 3x Coats Nova Dark Brown 55 Sealer		
GLAZING	Nil.		
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S


REV
NO

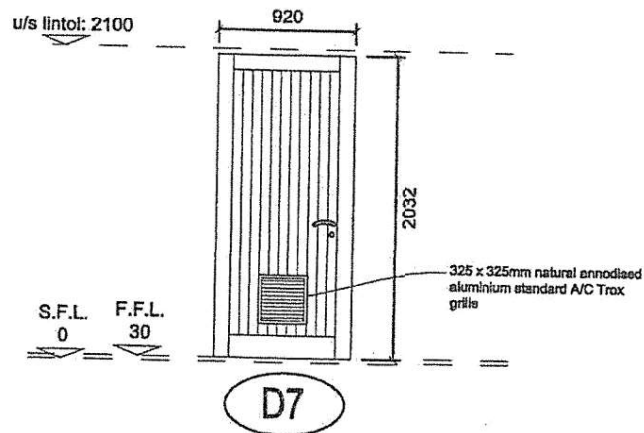
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D6

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.111

DRAWN
SJack
DATE
2016/10/31

 Ngonyama Okpanum
& Associates
ARCHITECTURAL PROJECT MANAGERS, URBAN DESIGNERS, INTERIORS DESIGNERS



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D7	FRAME	INTO BRICKWALLS 44x94mm Single Rebated Hardwood / Meranti door frame suitable for SWARTLAND PD1 door. Frame built into 110mm/280mm brickwork with galvanized hoop irons screwed to frame & turned into brickwork.
NO. REQ.	??	FINISH	1x Coat Nova Dark Brown 55 Sealer to door frame allround before being built in, followed by 2x Coats sanded lightly between coats
POSITION NO.	RIGHT HAND DOOR ?? LEFT HAND DOOR ??	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	920x2032x44mm Braced & Ledged timber Meranti door by SWARTLAND PD1 with flush panel on both sides. 22mm thick braced & ledged with backing	SILL	Refer to sill detail.
FINISH	Sand smooth and prepare for :- 3x Coats Nova Dark Brown 55 Sealer		
GLAZING	Nil.		
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S

REV
NO

-

SCALE
1:50

D7

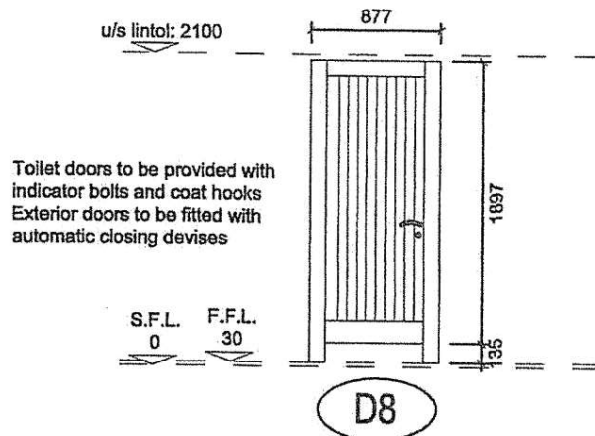
PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.112

DRAWN
SJack
DATE
2016/10/31



Ngonyama Okpanum
& Associates

ARCHITECTURE INTERIORS DESIGN



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D8	FRAME	INTO BRICKWALLS 44x94mm Single Rebated Hardwood / Meranti door frame suitable for SWARTLAND PD1 door. Frame built into 110mm/280mm brickwork with galvanized hoop irons screwed to frame & turned into brickwork.
NO. REQ.	??	FINISH	1x Coat Nova Dark Brown 55 Sealer to door frame allround before being built in, followed by 2x Coats sanded lightly between coats
POSITION NO.	RIGHT HAND DOOR ?? LEFT HAND DOOR ??		
DESCRIPTION	877x2032x44mm Braced & Ledged timber Meranti door by SWARTLAND PD1 with flush panel on both sides. 22mm thick braced & ledged with backing	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
FINISH	Sand smooth and prepare for :- 3x Coats Nova Dark Brown 55 Sealer	SILL	Refer to sill detail.
GLAZING	Null.		
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S


REV
NO
1

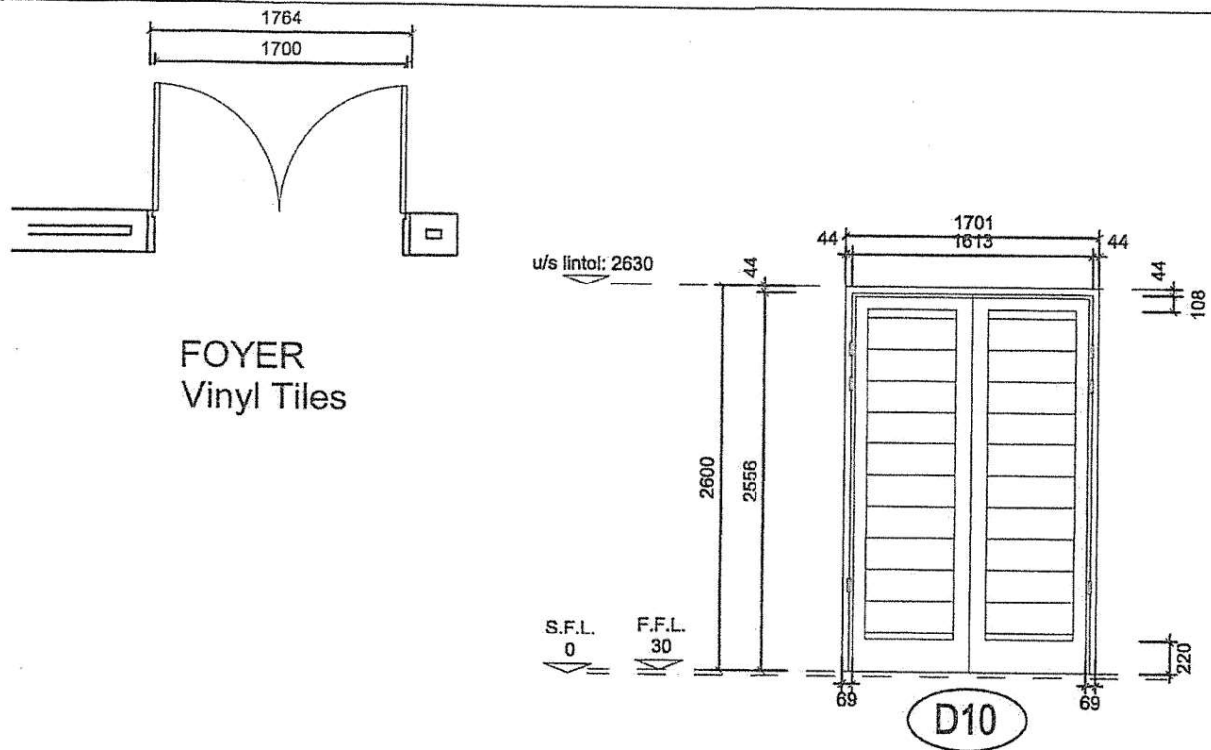
SCALE
1:50

D8

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.113

DRAWN
SJack
DATE
2016/10/31

 Ngonyama Okpanum
& Associates
ARCHITECTURE PROJECTS INTERIORS DESIGN INTERIOR FINISHES



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D10	FRAME	REBATED SELECTED RAILWAY SLEEPER HARDWOOD FRAME WITH 108 x 65mm DOORFRAME STYLE SIZES WITH No. 3 x 30mm WIDE x 300mm LONG HOOP IRON LUGS, FIXED WITH STEEL NAILS TO EACH STYLE AND BUILT INTO BRICKWORK. 19mm MATCHING RAILWAY SLEEPER QUADRANT TRIM TO INTERNAL JUNCTION OF FRAME/ WALL. ALL TO BE VARNISHED TO ARCHITECTS SPECIFICATION. 44 x 108mm RAILWAY SLEEPER REBATED & SPLAYED WEATHERBAR SOLID BRASS SCREWED TO DOOR
NO. REQ.	??	FINISH	-
POSITION NO.	DOUBLE DOOR: OUTWARD OPENING MAIN ENTRANCE FOYER	IRONMONGERY	As per Schedule.
DESCRIPTION	2556 x 1613 x 44mm SOLID RAILWAY SLEEPER DOUBLE DOOR WITH REBATED MEETING STYLES. 108mm WIDE TOP RAIL AND SIDE STILES AND 220mm WIDE BOTTOM RAIL. TIMBER SLATS BETWEEN TO SPECIALIST DETAIL. ALL SIDES AND CONCEALED EDGES TO BE PREPARED FOR VARNISHING PRIOR TO DOOR BEING BUILT IN. COLOUR TO ARCHITECT'S APPROVAL ALL JOINTS TO BE MORTICE & TENON	REMARKS	Door to open outward. In accordance with SABS 0137-2000 Code of Practice
FINISH	-	SILL	Refer to sill detail.
SECURITY	As per manufacturer		

DOOR SCHEDULE

REV
NO


SCALE
1:50

D10

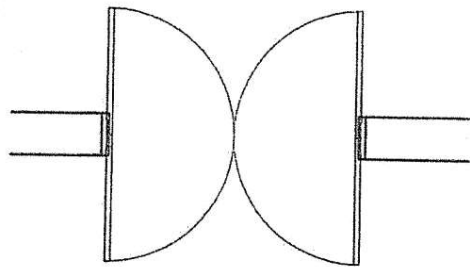
NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.114

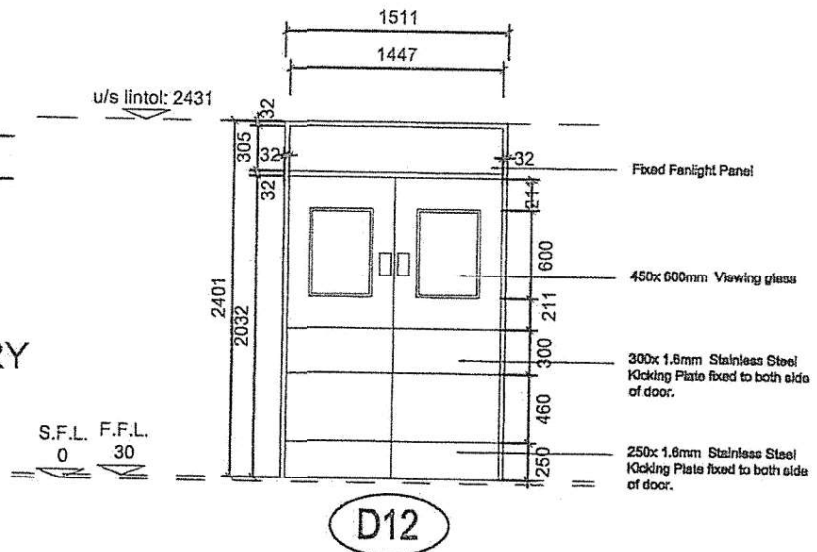
DRAWN
MMY
DATE
2016/11/16

 Ngonyama Okpanum
& Associates

DINING HALL
Vinyl Tiles



SEVERY / COOKERY
Vinyl Tiles



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D12	FRAME	70x 108mm MERANTI DOUBLE DOOR FRAME WITH HALF ROUND SHAPE TO TAKE SHAPED DOORS, COMPLETE WITH BASE TIES AND FIXING LUGS. FRAME TO SUIT 230mm FACEBRICK WALL. 2 COATS PLASCON VELVAGLO ENAMEL. ALL APPLIED TO MANUFACTURER'S SPECIFICATION. COLOUR TO ARCHITECT'S APPROVAL.
NO. REQ.	??	FINISH	-
POSITION NO.	DOUBLE DOOR: DOUBLE SWING DOOR DINING HALL	IRONMONGERY	As per Schedule.
DESCRIPTION	2032 x 1613 x 44mm SOLID CORE COMMERCIAL PLY FLUSH PANEL DOUBLE DOOR WITH NON-REBATED ROUNDED NON-MEETING STYLES WITH 10mm HARDWOOD EDGES. 450x600mm GLASS VIEWING PANELS GLAZED WITH 6mm CLEAR LAMINATED SAFETY GLASS AS SHOWN IN NEOPRENE GASKET. S/S KICKING PLATES AND BUMPING PLATES AS SHOWN. EDGES ALL TO BE PREPARED AND APPLY 1 COAT UNIVERSAL UNDERCOAT, 2 COATS PLASCON VELVAGLO ENAMEL. ALL APPLIED TO MANUFACTURER'S SPECIFICATION. COLOUR TO ARCHITECT'S APPROVAL.	REMARKS	Door double swing. In accordance with SABS 0137-2000 Code of Practice
FINISH	-	SILL	Refer to sill detail.
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S

REV
NO


-

SCALE
1:50

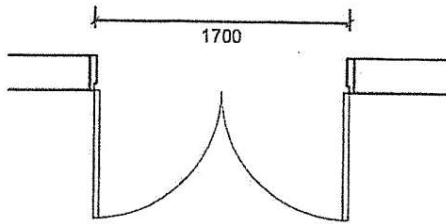
D12

PROJECT NUMBER
IDT/NTS/DS
DWG NUMBER
IDT/NTS/DS/5.115

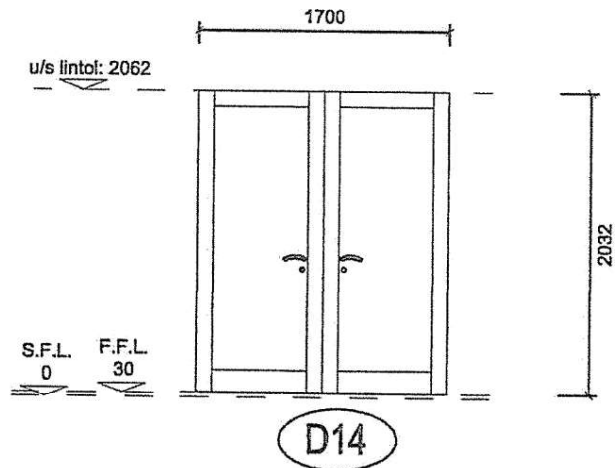
DRAWN
MMY
DATE
2016/11/16

 Ngonyama Okpanum
& Associates
ARCHITECTS ENGINEERS INTERIORS

GOODS RECEIVING
Vinyl Tiles



BULK STORE
Vinyl Tiles



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D14	FRAME	INTO BRICKWALLS 44x94mm Single Rebated Hardwood / Meranti door frame suitable for SWARTLAND double door. Frame built into 110mm/280mm brickwork with galvanized hoop irons screwed to frame & turned into brickwork.
NO. REQ.	??	FINISH	1x Coat Nova Dark Brown 55 Sealer to door frame allround before being built in, followed by 2x Coats sanded lightly between coats
POSITION NO.	RIGHT HAND DOOR ?? LEFT HAND DOOR ??	REMARKS	In accordance with SABS 0137-2000 Code of Practice
DESCRIPTION	1700x2032x44mm Braced & Ledged timber Meranti Double door by SWARTLAND with 22mm thick flush panel on both sides.	SILL	Refer to sill detail.
FINISH	Sand smooth and prepare for :- 3x Coats Nova Dark Brown 55 Sealer		
GLAZING	Nil.		
SECURITY	As per manufacturer		

DOOR SCHEDULE

NTSOKOTHA S.S.S


REV
NO

SCALE
1:50

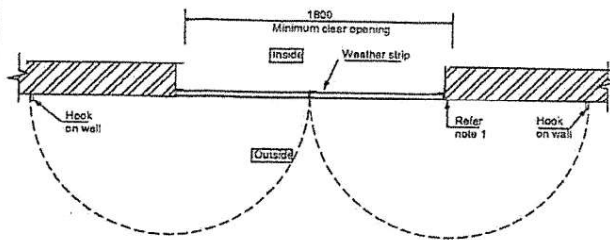
D14

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.116

DRAWN
MMY
DATE
2016/11/16

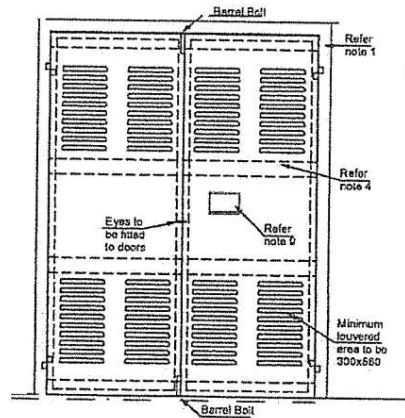
 Ngonyama Okpanum
& Associates
ARCHITECTS ENGINEERS PLANNERS INTERIORS DESIGNERS

GOODS RECEIVING AREA



DELIVERIES / STAFF ENTRANCE / EXIT

S.F.L. F.F.L.
0 30



u/s lintol: 2106

D16

SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D16	FRAME	??????????
NO. REQ.	??	FINISH	-
POSITION NO.	DOUBLE DOOR: DOUBLE SWING DOOR GENERATOR, LV & TRANSFORMER ROOMS	IRONMONGERY	As per Schedule.
DESCRIPTION	????	REMARKS	Door double swing. In accordance with SABS 0137-2000 Code of Practice
FINISH	-	SILL	Refer to sill detail.
SECURITY	As per manufacturer		

DOOR SCHEDULE

REV
NO

-


SCALE
1:50

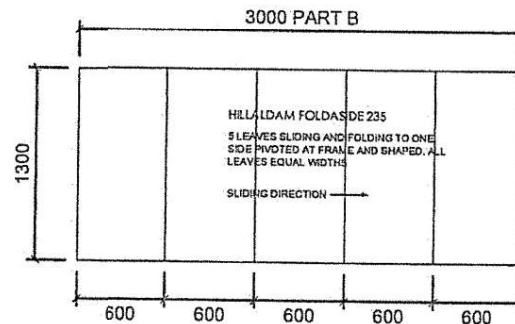
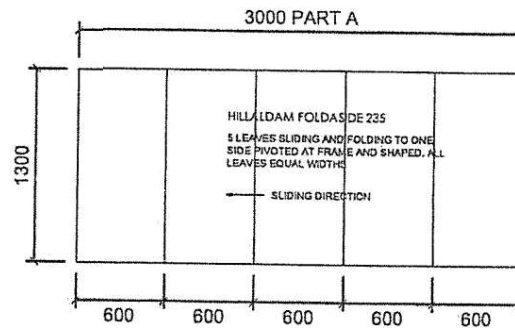
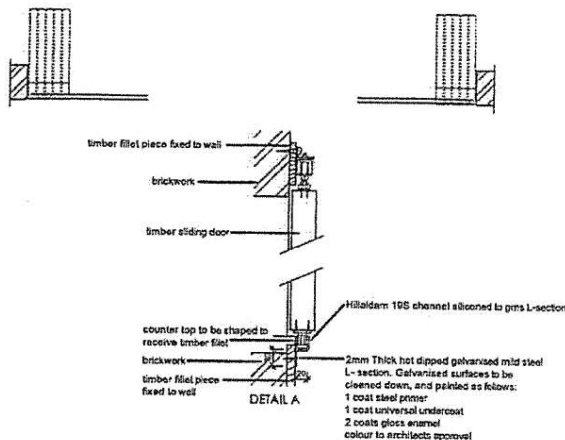
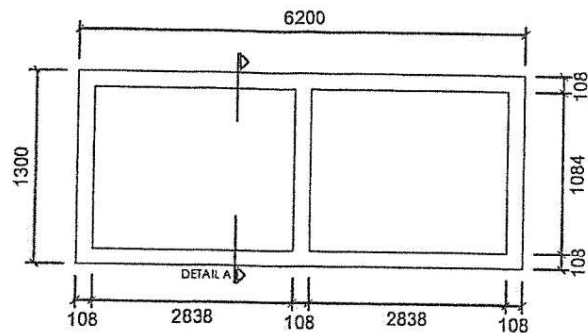
D16

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.117

DRAWN
MMY
DATE
2017/01/23

 Ngonyama Okpanum
& Associates
CONSULTING ENGINEERS, ARCHITECTS, INTERIOR DESIGNERS



D18

SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D18
NO. REQ.	1
POSITION NO.	DOUBLE DOOR: DOUBLE FOLDING DOOR DINING HALL (SERVER)
DESCRIPTION	HILLALDAM FOLDASIDE 235 LEAVES PIVOT TO FRAME TYPE. 2x 3000mm WIDE (IN 600mm HINGED TOGETHER MERANTI LEAVES 1300mm HIGH) SLIDING FROM CENTRE TO EITHER SIDE AND FOLDS PROJECTING OUTWARDS (HALL SIDE). 6000mm WIDE x 1300mm HIGH MERANTI SLIDING DOOR. 108mm WIDE TOP, VERTICAL, MIDDLE, SIDE AND BOTTOM RAILS. 2 X SECTIONS FIELDIED TIMBER PANELLING. PREPARE FOR VARNISHING PRIOR TO DOOR BEING HUNG. ALL JOINTS TO BE MORTICE AND TENON. 235 ALUMINIUM TOP TRACK.235F/T HANGER FOR TIMBER DOOR. 235/19 GUIDE.19LA ALUMINIUM GUIDE CHANNEL.443B BRASS HINGEs 506B FLUSH HANDLE.452 HOLD BACK CATCH.455 ROLLER CATCH. 488x 6 FLUSH BOLT. 970 DEADBOLT LOCK. 235 PIVOT SET- FOR EQUAL WIDTH LEAVES.
FINISH	-
SECURITY	As per manufacturer

FRAME	HILLALDAM STRAIGHTAWAY 100 SLIDING DOOR SYSTEM - CODE 100TF HANGER FOR TIMBER DOOR, 40/19B GUIDE (TIMBER DOOR), A100 BRACKET, 100 TRACK (GALVANISED), AND 19S CHANNEL (PRIMED). NOTE CHANNEL TO BE ALTERED TO ALLOW FOR WALL FIXING AS PER DETAIL A. ALL FOR MAX. 100KG DOOR. HILLALDAM FITTINGS - CODE 503SL FLUSH HANDLE (ALUMINIUM NA - NATURAL), 46L DOOR STOP (GALVANISED/RUBBER)
FINISH	-
IRONMONGERY	As per Schedule.
REMARKS	Door double swing. In accordance with SABS 0137-2000 Code of Practice
SILL	Refer to sill detail.

DOOR SCHEDULE

NTSOKOTHA S.S.S

REV
NO

-

SCALE

1:50

D18

PROJECT NUMBER
IDT/NTSO/DS

DWG NUMBER
IDT/NTS/DS/5.118

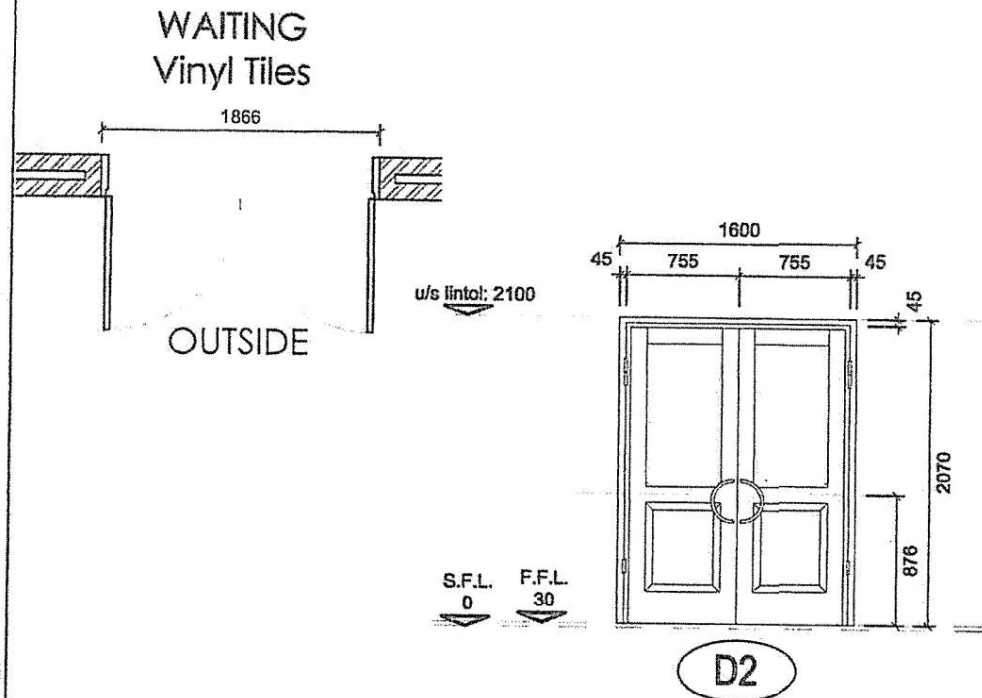
DRAWN
SJack

DATE
2017/01/24



Ngonyama Okpanum
& Associates

ARCHITECTS/ENGINEERS/INTERIORS DESIGNERS



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D2	FRAME	White Powder Coated frames. 280mm Wall thickness.
NO. REQ.	??	FINISH	White Powder Coated.
POSITION NO.	DOUBLE DOOR: OUTWARD OPENING MAIN ENTRANCE FOYER (LEADING TO COURTYARD) MAIN ENTRANCE FOYER (LEADING TO DORMS) COMPUTER / STUDY AREA TV LOUNGE	IRONMONGERY	As per Schedule.
DESCRIPTION	White Powder coated Aluminium door to suit opening size 1600mm (WIDE) & 2400mm (HIGH). Wall thickness 280mm	REMARKS	Door to open outward. In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
FINISH	White Powder Coated.	SILL	Refer to sill detail.
GLAZING	Safety glass as per AAAMSA Specifications.		
DOOR STOP & KEY CONTROL			
SECURITY	As per manufacturer		

DOOR SCHEDULE

REV NO

SCALE
1:50

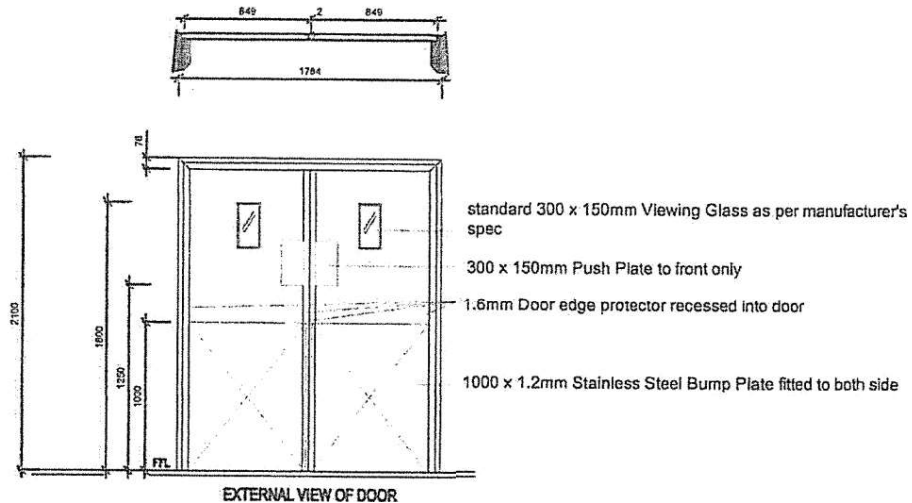
D2

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.101

DRAWN
SJack
DATE
2016/10/31

Ngonyama Okpanum
& Associates



D19

SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D19	FRAME	1.6mm GALVANISED MILD PRESSED STEEL AND FIXING LUGS. FRAME TO SUIT 230mm BRICK WALL PLASTERED ON BOTH SIDES.
NO. REQ.	12	HINGES	SEE IRONMONGERY SCHEDULE.
POSITION NO.	DOUBLE DOOR: DOUBLE FOLDING DOOR DINING HALL (SERVER)	FINISH	GALVANISED SURFACES TO BE CLEANED DOWN AND WASHED TO: 1 COAT GALVAGRIP PRIMER 1 COAT UNIVERSAL UNDERCOAT 2 COATS PLASCON VELVAGLO ENAMEL ALL APPLIED TO MANUFACTURER'S SPECIFICATION. PAINT REAR PRESSED STEEL LINING WITH TWO COATS OF COLD BITUMASTIC SOLUTION, BEFORE BUILDING IN FRAME. COLOUR: TO ARCHITECT'S SPECIFICATION.
DESCRIPTION	1700x2032mm Bitcon or equally approved 2hr fire rated double door with plywood edging to comply with SABS 1253:2003 and National Building Regulations (Class D). SOLID CENTRAL CORE Rebated meeting styles. FOR PAINTING	IRONMONGERY	As per Schedule.
FINISH	PREPARE AND APPLY: 1 COAT UNIVERSAL UNDERCOAT 2 COATS PLASCON VELVAGLO ENAMEL. ALL APPLIED TO MANUFACTURER'S SPECIFICATION. COLOUR: TO ARCHITECT'S SPECIFICATION.	REMARKS	
GLAZING	FIRE RATED GLAZING AS PER THE MANUFACTURER'S SPEC GEORGIAN WIRE GLASS- DOUBLE GLAZING	SILL	Refer to sill detail.
IRONMONGERY	As per Schedule.		
SINAGE	Refer to Signage Schedule.		
DOOR STOP	Electrical Maglock per door leaf with door closer.		
FINISH	-		
SECURITY	As per manufacturer		

DOOR SCHEDULE

REV NO
-


SCALE
1:50

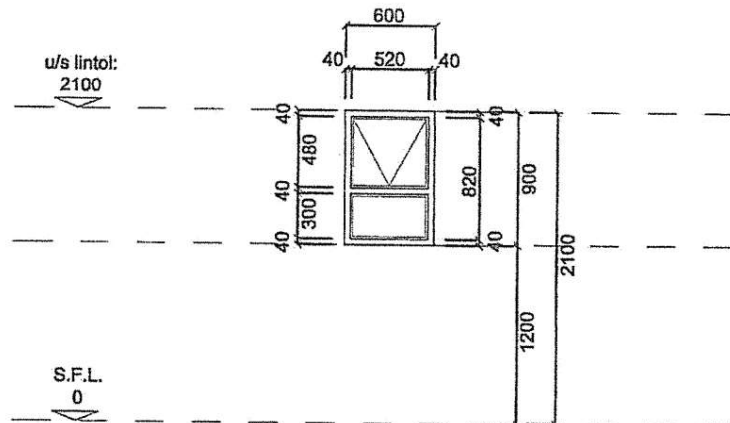
D19

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.119

DRAWN
MMY
DATE
2017/02/03

 **Ngonyama Okpanum & Associates**
ARCHITECTS/INTERIOR DESIGNERS/URBAN DESIGNERS/INTERIOR DESIGNERS



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	W1	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	??		
POSITION NO.	ABLUTIONS	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	600x900mm Interpron powder coating ANP 1069 aluminium frame. Aluminium frame to be anchored into masonry brickwork. Anti-mould clear silicone to be applied around the frame.		
FINISH	White Powder coated		
GLAZING	"LOW E" glass 6.38mm Intruderpruffe normal strength OBSCURE glazed to aluminium frames in accordance with SABS 0137 and SABS 1263 Part1. Glass thickness to be established by supplier according to windloads, NBR and SABS standards.		
BURGLAR BARS	Aluminium 20 x 14mm (1.6mm thick) fully framed cottage design with 6mm threaded bar within the sections fixed to an aluminium 22 x 28mm (1.6mm) perimeter frame. Crucifix nylon connectors & corner nylon cleats to junctions. 75mm coach screws with wall plugs to fix frame to window reveals. Use 16mm nylon plugs to cover frame holes.	SILL	Refer to sill detail.

WINDOW SCHEDULE

REV NO

SCALE

1:50

W1

NTSOKOTHA S.S.S

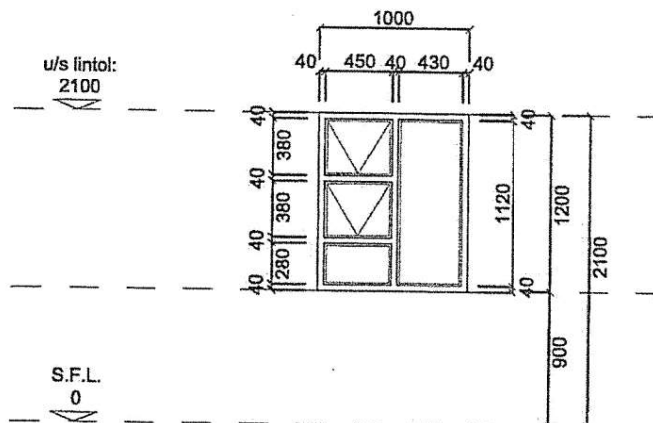
PROJECT NUMBER
IDT/NTSO/WS

DWG NUMBER
IDT/NTS/WS/6.100

DRAWN
SJack

DATE
2016/10/31

Ngonyama Okpanum
& Associates



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	W2	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	??		
POSITION NO.	DORMITORIES	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	1000x1200mm Interprun powder coating ANP 1069 aluminium frame. Aluminium frame to be anchored into masonry brickwork. Anti-mould clear silicone to be applied around the frame.		
FINISH	White Powder coated		
GLAZING	"LOW E" glass 6.38mm Intruderpruffe normal strength glazed to aluminium frames in accordance with SABS 0137 and SABS 1263 Part1. Glass thickness to be established by supplier according to windloads, NBR and SABS standards.		
BURGLAR BARS	Aluminium 20 x 14mm (1.6mm thick) fully framed cottage design with 6mm threaded bar within the sections fixed to an aluminium 22 x 28mm (1.6mm) perimeter frame. Crucifix nylon connectors & corner nylon cleats to junctions. 75mm coach screws with wall plugs to fix frame to window reveals. Use 16mm nylon plugs to cover frame holes.	SILL	Refer to sill detail.

WINDOW SCHEDULE

NTSOKOTHA S.S.S


REV
NO

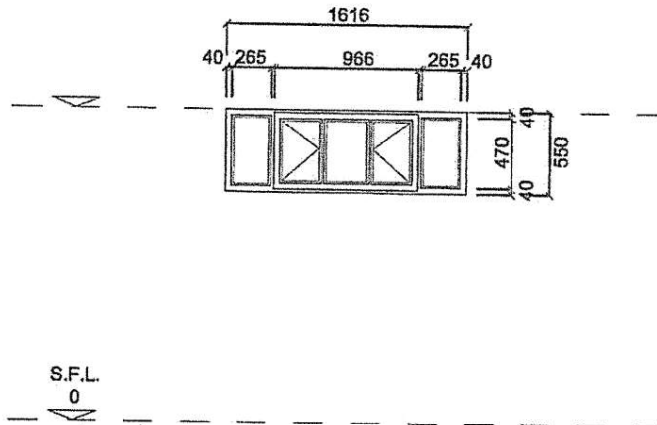
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W2

PROJECT NUMBER
IDT/NTSO/WS
DWG NUMBER
IDT/NTS/WS/6.101

DRAWN
SJack
DATE
2016/10/31

 Ngonyama Okpanum
& Associates



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	W3	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	??	REMARKS	<p>In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are:</p> <p>*and Laminated Safety Glass conforming to SABS 1263.</p> <p>*Toughened Glass can only be used in overhead glazing ,when having all round edge support.</p>
POSITION NO.	DORMITORIES		
DESCRIPTION	1616x550mm Interprun powder coating ANP 1069 aluminium frame. Aluminium frame to be anchored into masonry brickwork. Anti-mould clear silicone to be applied around the frame.		
FINISH	White Powder coated		
GLAZING	"LOW E" glass 6.38mm Intruderpruffe normal strength glazed to aluminium frames in accordance with SABS 0137 and SABS 1263 Part1. Glass thickness to be established by supplier according to windloads, NBR and SABS standards.		
BURGLAR BARS	Aluminium 20 x 14mm (1.6mm thick) fully framed cottage design with 6mm threaded bar within the sections fixed to an aluminium 22 x 28mm (1.6mm) perimeter frame. Crucifix nylon connectors & corner nylon cleats to junctions. 75mm coach screws with wall plugs to fix frame to window reveals. Use 16mm nylon plugs to cover frame holes.	SILL	Refer to sill detail.

WINDOW SCHEDULE

NTSOKOTHA S.S.S

REV
NO


-

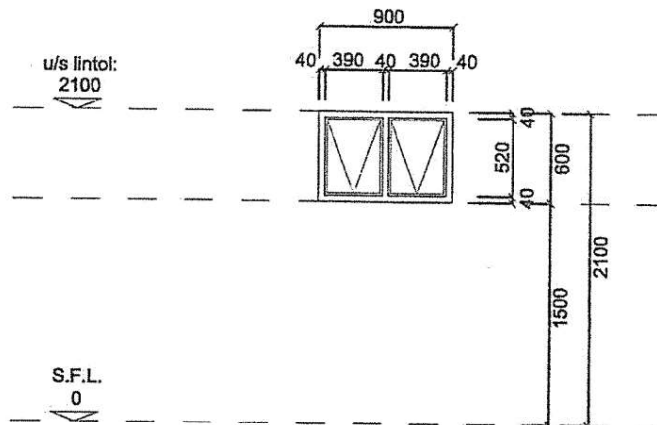
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W3

PROJECT NUMBER
IDT/NTSOWS
DWG NUMBER
IDT/NTS/WS/6.102

DRAWN
SJack
DATE
2016/10/31

 Ngonyama Okpanum
& Associates
ARCHITECTS PROJECT MANAGERS INTERIOR DESIGNERS



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	W4	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	??		
POSITION NO.	DORMITORIES	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	1000x1200mm Interprun powder coating ANP 1069 aluminium frame. Aluminium frame to be anchored into masonry brickwork. Anti-mould clear silicone to be applied around the frame.		
FINISH	White Powder coated		
GLAZING	"LOW E" glass 6.38mm Intruderpruffe normal strength glazed to aluminium frames in accordance with SABS 0137 and SABS 1263 Part1. Glass thickness to be established by supplier according to windloads, NBR and SABS standards.		
BURGLAR BARS	Aluminium 20 x 14mm (1.6mm thick) fully framed cottage design with 6mm threaded bar within the sections fixed to an aluminium 22 x 28mm (1.6mm) perimeter frame. Crucifix nylon connectors & corner nylon cleats to junctions. 75mm coach screws with wall plugs to fix frame to window reveals. Use 16mm nylon plugs to cover frame holes.	SILL	Refer to sill detail.

WINDOW SCHEDULE

NTSOKOTHA S.S.S

REV
NO

-

SCALE

1:50

W4

PROJECT NUMBER
IDT/NTSOWS

DWG NUMBER
IDT/NTSWS/6.103

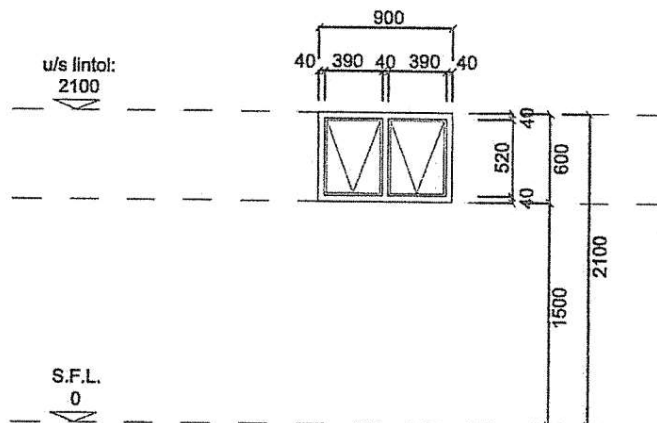
DRAWN
MMY

DATE
2016/11/17



Ngonyama Okpanum
& Associates

ARCHITECTS/ENGINEERS/INTERIORS DESIGNERS



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	W5	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	??		
POSITION NO.	DORMITORIES	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	1000x1200mm Interprun powder coating ANP 1069 aluminium frame. Aluminium frame to be anchored into masonry brickwork. Anti-mould clear silicone to be applied around the frame.		
FINISH	White Powder coated		
GLAZING	"LOW E" glass 6.38mm Intruderpruffe normal strength OBSCURE glazed to aluminium frames in accordance with SABS 0137 and SABS 1263 Part1. Glass thickness to be established by supplier according to windloads, NBR and SABS standards.		
BURGLAR BARS	Aluminium 20 x 14mm (1.6mm thick) fully framed cottage design with 6mm threaded bar within the sections fixed to an aluminium 22 x 28mm (1.6mm) perimeter frame. Crucifix nylon connectors & corner nylon cleats to junctions. 75mm coach screws with wall plugs to fix frame to window reveals. Use 16mm nylon plugs to cover frame holes.	SILL	Refer to sill detail.

WINDOW SCHEDULE

REV
NO


SCALE
1:50

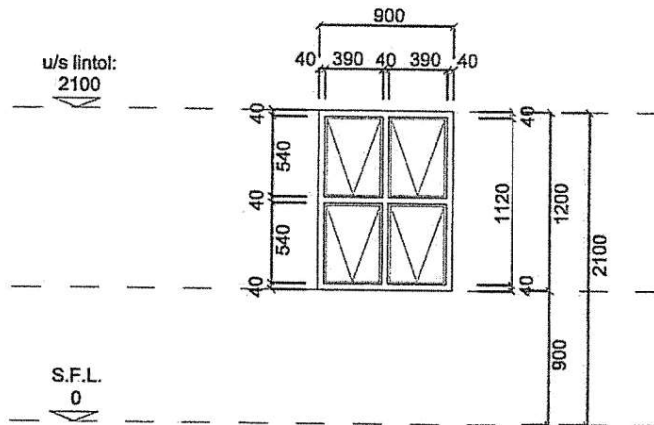
W5

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/WS
DWG NUMBER
IDT/NTS/WS/6.104

DRAWN
MMY
DATE
2016/11/17

 Ngonyama Okpanum
& Associates
ARCHITECTS/ENGINEERS/MANAGERS/JURISTS/PLANNERS/INTERIOR DESIGNERS



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	W6	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	??		
POSITION NO.	DORMITORIES	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	1000x1200mm Interprun powder coating ANP 1069 aluminium frame. Aluminium frame to be anchored into masonry brickwork. Anti-mould clear silicone to be applied around the frame.		
FINISH	White Powder coated		
GLAZING	"LOW E" glass 6.38mm Intruderpruffe normal strength glazed to aluminium frames in accordance with SABS 0137 and SABS 1263 Part1. Glass thickness to be established by supplier according to windloads, NBR and SABS standards.		
BURGLAR BARS	Aluminium 20 x 14mm (1.6mm thick) fully framed cottage design with 6mm threaded bar within the sections fixed to an aluminium 22 x 28mm (1.6mm) perimeter frame. Crucifix nylon connectors & corner nylon cleats to junctions. 75mm coach screws with wall plugs to fix frame to window reveals. Use 16mm nylon plugs to cover frame holes.	SILL	Refer to sill detail.

WINDOW SCHEDULE

NTSOKOTHA S.S.S


REV
NO

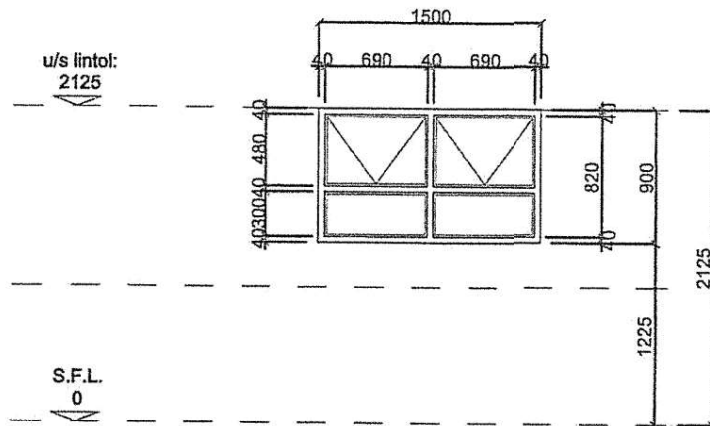
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W6

PROJECT NUMBER
IDT/NTSOWS
DWG NUMBER
IDT/NTSWS/6.105

DRAWN
MMY
DATE
2016/11/17

 Ngonyama Okpanum
& Associates
ARCHITECTURE PROJECT MANAGEMENT SURVEYING INTERIOR DESIGN



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	W7	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	4		
POSITION NO.	CARETAKERS WORKSHOP	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	1000x1200mm Interprun powder coating ANP 1069 aluminium frame. Aluminium frame to be anchored into masonry brickwork. Anti-mould clear silicone to be applied around the frame.		
FINISH	White Powder coated		
GLAZING	"LOW E" glass 6.38mm Intruderpruffe normal strength glazed to aluminium frames in accordance with SABS 0137 and SABS 1263 Part1. Glass thickness to be established by supplier according to windloads, NBR and SABS standards.		
BURGLAR BARS	Aluminium 20 x 14mm (1.6mm thick) fully framed cottage design with 6mm threaded bar within the sections fixed to an aluminium 22 x 28mm (1.6mm) perimeter frame. Crucifix nylon connectors & corner nylon cleats to junctions. 75mm coach screws with wall plugs to fix frame to window reveals. Use 16mm nylon plugs to cover frame holes.	SILL	Refer to sill detail.

WINDOW SCHEDULE

NTSOKOTHA S.S.S


REV
NO

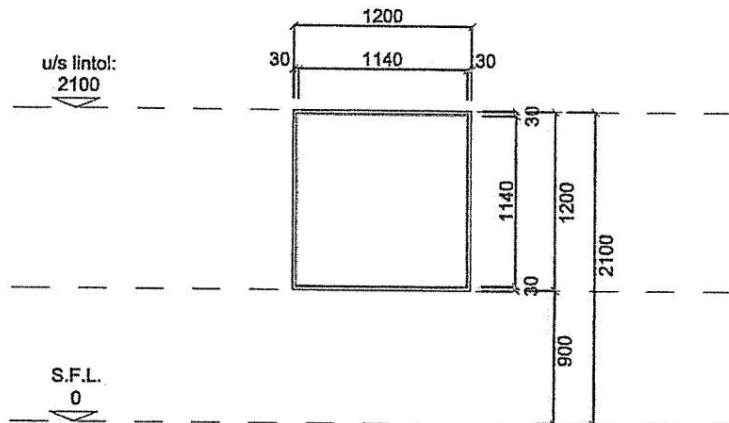
SCALE
1:50

W7

PROJECT NUMBER
IDT/NTSOWS
DWG NUMBER
IDT/NTSWS/6.106

DRAWN
MMY
DATE
2016/11/17

 Ngonyama Okpanum
& Associates
www.ntsokotha.com



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	W9	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	?		
POSITION NO.	GENERAL OFFICE	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	1200x1200mm Interpon powder coating ANP 1069 aluminium frame . Aluminium frame to be anchored into masonry brickwork. Anti-mould clear silicon.		
FINISH	Powder Coated to Block 'TRIM' colour.		
GLAZING	6.38mm or 8.38mm Intruderpruffe normal strength glazed to aluminium frames in accordance with SABS 0137 and SABS 1263 Part1. Glass thickness to be established by supplier according to windloads, NBR and SABS standards.		
SECURITY	As per manufacturer	SILL	Refer to sill detail.

WINDOW SCHEDULE

REV
NO

SCALE
1:50

W9

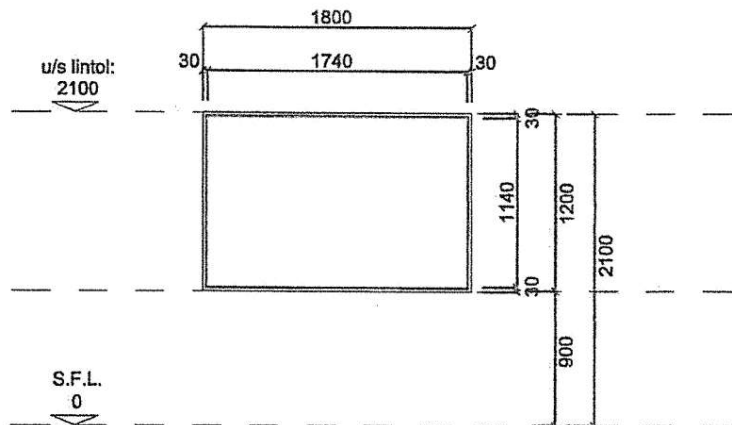
NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSOWS
DWG NUMBER
IDT/NTSWS/6.107

DRAWN
SJack
DATE
2017/01/24



Ngonyama Okpanum
& Associates



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	W10	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	?		
POSITION NO.	GENERAL OFFICE	REMARKS	In accordance with SABS 0137-2000 Code of Practice -the installation of Glazing in Buildings. Typical Safety Glazing Materials are: *and Laminated Safety Glass conforming to SABS 1263. *Toughened Glass can only be used in overhead glazing ,when having all round edge support.
DESCRIPTION	1800x1200mm Interpon powder coating ANP 1069 aluminium frame . Aluminium frame to be anchored into masonry brickwork. Anti-mould clear silicone.		
FINISH	Powder Coated to Block 'TRIM' colour.		
GLAZING	6.38mm or 8.38mm Intruderpruffe normal strength glazed to aluminium frames in accordance with SABS 0137 and SABS 1263 Part1. Glass thickness to be established by supplier according to windloads, NBR and SABS standards.		
SECURITY	As per manufacturer	SILL	Refer to sill detail.

WINDOW SCHEDULE

REV
NO


SCALE
1:50

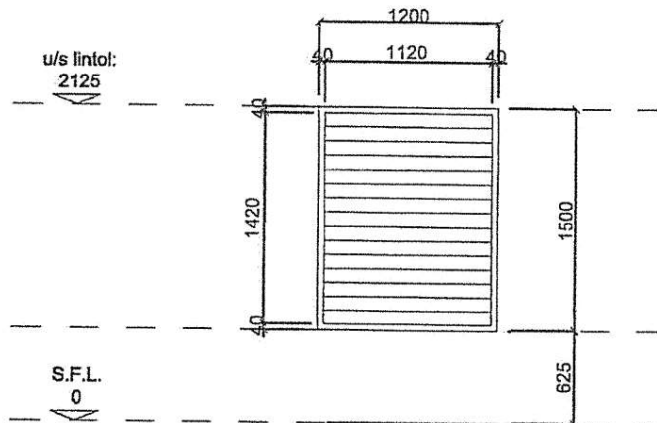
W10

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTS/OWS
DWG NUMBER
IDT/NTS/WS/6.108

DRAWN
SJack
DATE
2017/01/24

 Ngonyama Okpanum
& Associates
ARCHITECTS/ENGINEERS/INTERIORS DESIGNERS



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	L1	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	5	REMARKS	
POSITION NO.	BIN AREAS		
DESCRIPTION	?????		
FINISH	????		
GLAZING			
BURGLAR BARS			
		SILL	Refer to sill detail.

WINDOW SCHEDULE

REV
NO


SCALE
1:50

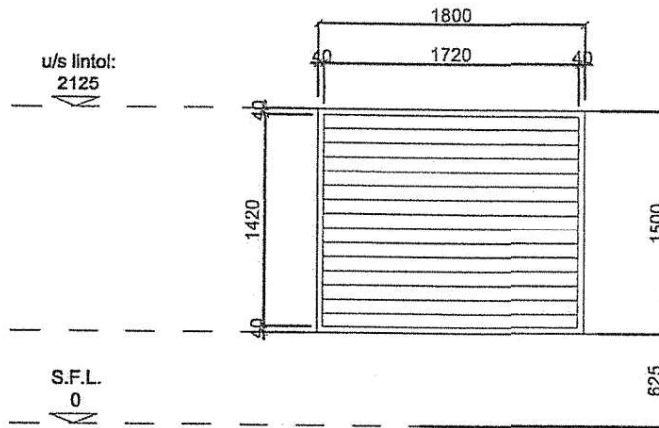
L1

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSOWS
DWG NUMBER
IDT/NTS/WS/6.109

DRAWN
MMY
DATE
2016/11/17

 **Ngonyama Okpanum
& Associates**
ARCHITECTS PROJECT MANAGERS URBAN DESIGNERS INTERIOR DESIGNERS



SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

WINDOW TYPE	L2	IRONMONGERY	Standard furniture as supplied by manufacturer.
NO. REQ.	2		
POSITION NO.	GENERATOR, TRANSFORMER ROOMS	REMARKS	
DESCRIPTION	?????		
FINISH	????		
GLAZING			
BURGLAR BARS			
		SILL	Refer to sill detail.

WINDOW SCHEDULE

REV NO


SCALE
1:50

L2

NTSOKOTHA S.S.S

PROJECT NUMBER
IDT/NTSO/WS
DWG NUMBER
IDT/NTS/WS/6.110

DRAWN
MMY
DATE
2016/11/17

 Ngonyama Okpanum
& Associates
ARCHITECTS PROJECT MANAGERS INTERIOR DESIGNERS

2900
X X 3507950

CO-ORDINATE SYSTEM 14.2784		HEIGHTS
CONSTANTS +0.00		+300 000.00
BENCHMARKS (12mm ROUND IRON PEGS)		(M.S.L.)
NT51	-3041.44	+8339.81
NT52	-3059.80	+8168.26
NT53	-3082.34	+8302.72
NT54	-3135.32	+8284.48
NT55	-3183.11	+8243.34
NT56	-3256.88	+8173.51

BUILDING EDGE CORNER COORDINATE TABLE	
Building Edge	Y X
a1	
a2	
a3	
a4	
b1	
b2	
b3	
b4	
c1	
c2	
c3	
c4	
d1	
d2	
d3	
d4	

ALL CLASSROOM BUILDINGS WITH A NORTH/SOUTH ORIENTATION ARE TO BE TREATED DIFFERENTIALLY WITH EXTENDED EAVES. THIS IS SHOWN IN THE DETAILED DESIGN DRAWINGS
EAST / WEST WINDOWS: LIGHTING/SHADING TO FUTURE DETAIL.

2900
X X 3507950

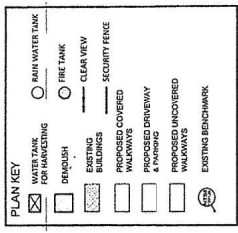
2900
X X 3507950

2900
X X 3507950

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X X 3507950

2900
X X 3507950

ANNEXURE A1: SCHEDULE OF TABLE	
TABLE 1: SUMMARY FOR HUMAN CAPITAL	
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TABLE 3: SUMMARY FOR HUMAN CAPITAL	
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TABLE 99: SUMMARY FOR HUMAN CAPITAL	
TABLE 100: SUMMARY FOR HUMAN CAPITAL	



SITE AREA: 65 708 m²



SCHOOL ONLY ABLE TO CATER TO MAX. OF 1400 PUPILS/ BULK INFRASTRUCTURE TO CATER FOR HOSTEL DESIGN MAX OF 1000 PUPILS:
Water, Sewerage and Electricity

NOTES
1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

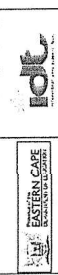
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NO.	DATE
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2	01/01/2011
3	01/01/2011
4	01/01/2011
5	01/01/2011

CONSULTANTS	
PRINCIPAL AGENT	Roelweld Quantity Surveyors
QUANTITY SURVEYORS	Roelweld Quantity Surveyors
ARCHITECTS	Ngonyama Okpanum & Associates
STRUCTURAL ENGINEERS	CSE CIVIL & STRUCTURAL ENGINEERS
ELECTRICAL ENGINEERS	MXN ELECTROCON PROJECTS

Ngonyama Okpanum & Associates
REGISTERED ARCHITECTS (S.A.)

SIGNATURE	
NAME	DATE
DESIGNED	
DRAWN	
CHECKED	
VALIDATED	

EASTERN CAPE SCHOOL BUILDING PROGRAMME



DEPARTMENT OF EDUCATION
EASTERN CAPE

PROJECT
IDT SCHOOL BUILDING PROGRAMME

DRAWING TITLE
NTSOKOTHA SSS
SITE DEVELOPMENT PLAN

DRAWING NUMBER	
20080542	101
20080542	101

NOTE:
 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE STATED.
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE STATED.
 4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE STATED.
 5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE STATED.

REVISIONS	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

CONSULTANTS

PRINCIPAL AGENT
Roseveld Quantity Surveyors
QUANTITY SURVEYORS
Roseveld Quantity Surveyors
ARCHITECTS
Ngunjiri Okeke & Associates
STRUCTURAL ENGINEERS
CSE CIVIL & STRUCTURAL ENGINEERS
ELECTRICAL ENGINEERS
MXN ELECTROCON PROJECTS

1:1 SCALE (AS SHOWN) / 1:1 SCALE (AS SHOWN) / 1:1 SCALE (AS SHOWN) / 1:1 SCALE (AS SHOWN) / 1:1 SCALE (AS SHOWN)

NAME	DATE	REVISION
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

EASTERN CAPE SCHOOL BUILDING PROGRAMME

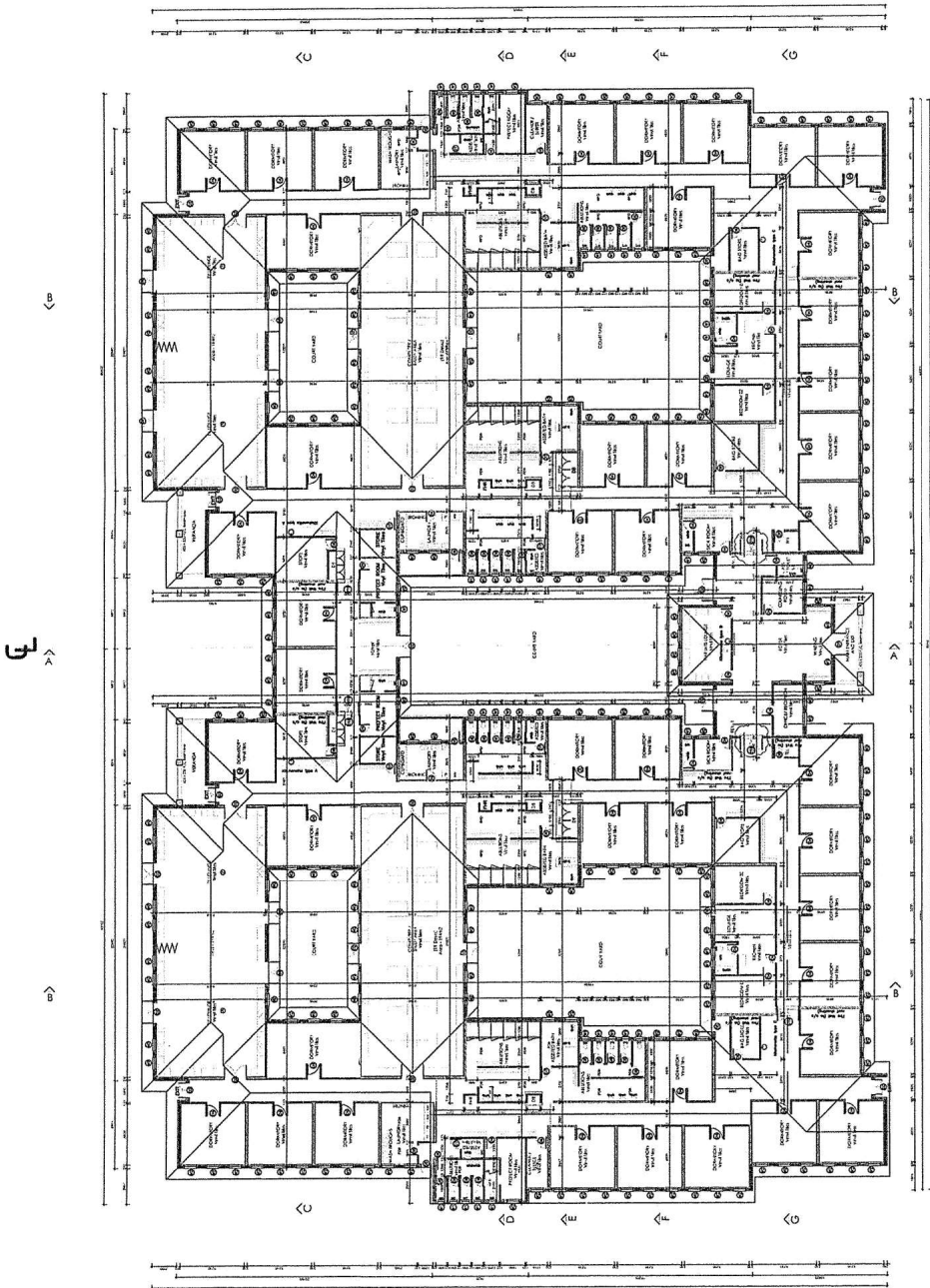


DEPARTMENT OF INDEPENDENT DEVELOPMENT
 EDUCATION CORPORATION
 PROJECT

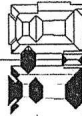
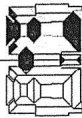
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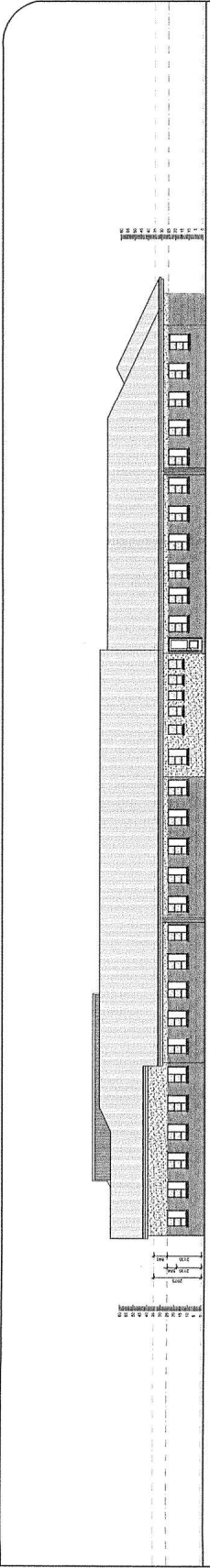
DRAWING TITLE
 NTSOKOTHA SSS - BOYS
 GROUND FLOOR KEY PLAN

DATE	REVISION	REVISION	REVISION
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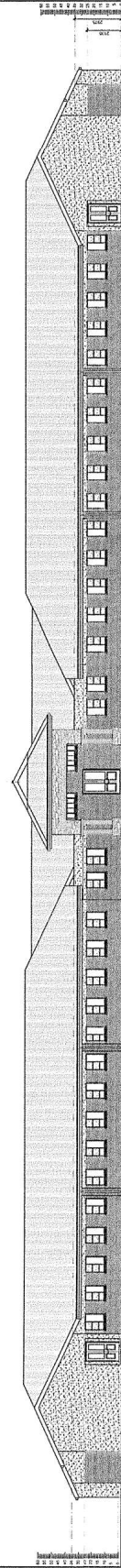


GROUND FLOOR KEY PLAN
 SCALE : 1 : 200

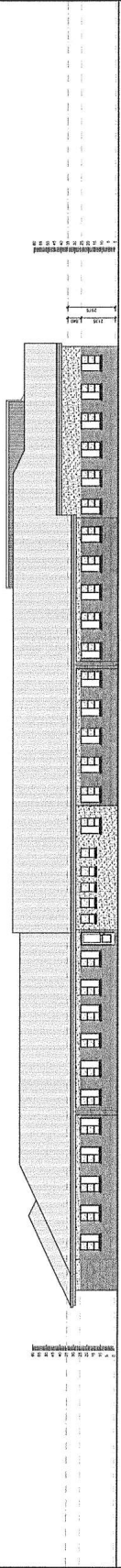




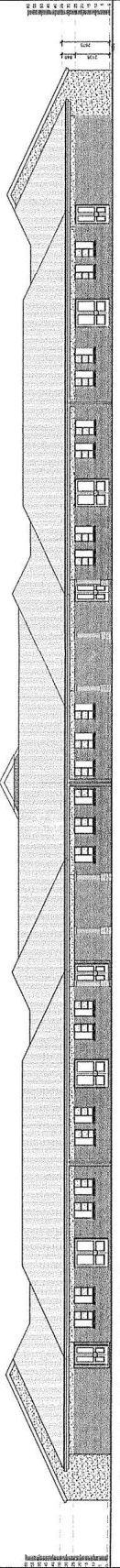
EAST ELEVATION
SCALE 1:1000



SOUTH ELEVATION
SCALE 1:1000



WEST ELEVATION
SCALE 1:1000



NORTH ELEVATION
SCALE 1:1000

NOTE:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

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6. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

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8. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

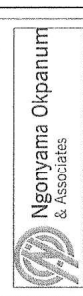
REVISIONS	DATE	DESCRIPTION

NOTE:

FEMALE TOILETS
12 x WC
12 x CHASING
2 x BATHS
5 x SHOWERS

CONSULTANTS

PRINCIPAL AGENT
Reelved Quantity Surveyors
Quantity Surveyors
Reelved Quantity Surveyors
ARCHITECTS
Ngonyama Okpanum & Associates
STRUCTURAL ENGINEERS
ELECTRICAL ENGINEERS



Ngonyama Okpanum & Associates

NAME	SIGNATURE	DATE	SCALE
DESIGNED			A0
DRAWN			1:100
CHECKED			
VALUED			

EASTERN CAPE SCHOOL BUILDING
PROGRAMME



DEPARTMENT OF
EDUCATION
INDEPENDENT DEVELOPMENT
CORPORATION

PROJECT
IDT SCHOOL BUILDING
PROGRAMME

DRAWING TITLE
NTSONKOTHA SSS
DORMITORY ELEVATIONS

DRAWING NUMBER	DESIGNER	DATE
20080545 LADY FREIRE ARCHITECTURE ID/NTS/05/2-04		

NOTES:
1. DETAILS NOT TO BE SCALE. DIMENSIONS SHOWN TO BE USED.
2. ALL DETAILS TO BE CONFORMED TO THE CODES FOR CONSTRUCTION.
3. CONTRACTOR TO PROVIDE AND MAINTAIN ALL NECESSARY ACCESS.
4. ALL WORK TO BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
5. ALL WORK TO BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
6. ALL WORK TO BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.

[illegible]

NOTE:

FEMALE TOILETS
12 x WC
5 x WASHBASINS
2 x BATHS
5 x SHOWERS

CONSULTANTS

PRINCIPAL AGENT
Roseveld Quantity Surveyors
QUANTITY SURVEYORS
Roseveld Quantity Surveyors
ARCHITECTS
Ngonnya Okunribun & Associates
STRUCTURAL/CIVIL ENGINEERS
ELECTRICAL ENGINEERS



**Ngonyama Okpanum
& Associates**

SEGNISTO KOFANI SELIGSON WITH SUSAN L. PROBERT

NAME	SIGNATURE	DATE	SHEET SIZE	
DESIGNED			A0 SCALE 1:100 1/4" = 1'-0" 1/8" = 1'-0" 1/16" = 1'-0" 1/32" = 1'-0" 1/64" = 1'-0" 1/128" = 1'-0" 1/256" = 1'-0" 1/512" = 1'-0" 1/1024" = 1'-0" 1/2048" = 1'-0" 1/4096" = 1'-0" 1/8192" = 1'-0" 1/16384" = 1'-0" 1/32768" = 1'-0" 1/65536" = 1'-0" 1/131072" = 1'-0" 1/262144" = 1'-0" 1/524288" = 1'-0" 1/1048576" = 1'-0" 1/2097152" = 1'-0" 1/4194304" = 1'-0" 1/8388608" = 1'-0" 1/16777216" = 1'-0" 1/33554432" = 1'-0" 1/67108864" = 1'-0" 1/134217728" = 1'-0" 1/268435456" = 1'-0" 1/536870912" = 1'-0" 1/1073741824" = 1'-0" 1/2147483648" = 1'-0" 1/4294967296" = 1'-0" 1/8589934592" = 1'-0" 1/17179869184" = 1'-0" 1/34359738368" = 1'-0" 1/68719476736" = 1'-0" 1/137438953472" = 1'-0" 1/274877906944" = 1'-0" 1/549755813888" = 1'-0" 1/1099511627776" = 1'-0" 1/2199023255552" = 1'-0" 1/4398046511104" = 1'-0" 1/8796093022208" = 1'-0" 1/17592186044416" = 1'-0" 1/35184372088832" = 1'-0" 1/70368744177664" = 1'-0" 1/140737488355328" = 1'-0" 1/281474976710656" = 1'-0" 1/562949953421312" = 1'-0" 1/1125899906842624" = 1'-0" 1/2251799813685248" = 1'-0" 1/4503599627370496" = 1'-0" 1/9007199254740992" = 1'-0" 1/18014398509481984" = 1'-0" 1/36028797018963968" = 1'-0" 1/72057594037927936" = 1'-0" 1/144115188075855872" = 1'-0" 1/288230376151711744" = 1'-0" 1/576460752303423488" = 1'-0" 1/1152921504606846976" = 1'-0" 1/2305843009213693952" = 1'-0" 1/4611686018427387904" = 1'-0" 1/9223372036854775808" = 1'-0" 1/18446744073709551616" = 1'-0" 1/36893488147419103232" = 1'-0" 1/73786976294838206464" = 1'-0" 1/147573952589676412928" = 1'-0" 1/295147905179352825856" = 1'-0" 1/590295810358705651712" = 1'-0" 1/1180591620717411303424" = 1'-0" 1/2361183241434822606848" = 1'-0" 1/4722366482869645213696" = 1'-0" 1/9444732965739290427392" = 1'-0" 1/18889465931478580854784" = 1'-0" 1/37778931862957161709568" = 1'-0" 1/75557863725914323419136" = 1'-0" 1/151115727451828646838272" = 1'-0" 1/302231454903657293676544" = 1'-0" 1/604462909807314587353088" = 1'-0" 1/1208925819614629174706176" = 1'-0" 1/2417851639229258349412352" = 1'-0" 1/4835703278458516698824704" = 1'-0" 1/9671406556917033397649408" = 1'-0" 1/19342813113834066795298816" = 1'-0" 1/38685626227668133590597632" = 1'-0" 1/77371252455336267181195264" = 1'-0" 1/154742504910672534362390528" = 1'-0" 1/309485009821345068724781056" = 1'-0" 1/618970019642690137449562112" = 1'-0" 1/1237940039285380274899124224" = 1'-0" 1/2475880078570760549798248448" = 1'-0" 1/4951760157141521099596496896" = 1'-0" 1/9903520314283042199192993792" = 1'-0" 1/19807040628566084398385987584" = 1'-0" 1/39614081257132168796771975168" = 1'-0" 1/79228162514264337593543950336" = 1'-0" 1/158456325028528675187087900672" = 1'-0" 1/316912650057057350374175801344" = 1'-0" 1/633825300114114700748351602688" = 1'-0" 1/1267650600228229401496703205376" = 1'-0" 1/2535301200456458802993406410752" = 1'-0" 1/5070602400912917605986812821504" = 1'-0" 1/10141204801825835211973625643008" = 1'-0" 1/20282409603651670423947251286016" = 1'-0" 1/40564819207303340847894502572032" = 1'-0" 1/81129638414606681695789005144064" = 1'-0" 1/162259276829213363391578010288128" = 1'-0" 1/324518553658426726783156020576256" = 1'-0" 1/649037107316853453566312041152512" = 1'-0" 1/1298074214633706907132624082305024" = 1'-0" 1/2596148429267413814265248164610048" = 1'-0" 1/5192296858534827628530496329220096" = 1'-0" 1/10384593717069655257060992658440192" = 1'-0" 1/20769187434139310514121985316880384" = 1'-0" 1/41538374868278621028243970633760768" = 1'-0" 1/83076749736557242056487941267521536" = 1'-0" 1/166153499473114484112975882535043072" = 1'-0" 1/332306998946228968225951765070086144" = 1'-0" 1/664613997892457936451903530140172288" = 1'-0" 1/1329227995784915872903807060280344576" = 1'-0" 1/2658455991569831745807614120560689152" = 1'-0" 1/53169119831396634916152282	
DRAWN				1/4" = 1'-0" 1/8" = 1'-0" 1/16" = 1'-0" 1/32" = 1'-0" 1/64" = 1'-0" 1/128" = 1'-0" 1/256" = 1'-0" 1/512" = 1'-0" 1/1024" = 1'-0" 1/2048" = 1'-0" 1/4096" = 1'-0" 1/8192" = 1'-0" 1/16384" = 1'-0" 1/32768" = 1'-0" 1/65536" = 1'-0" 1/131072" = 1'-0" 1/262144" = 1'-0" 1/524288" = 1'-0" 1/1048576" = 1'-0" 1/2097152" = 1'-0" 1/4194304" = 1'-0" 1/8388608" = 1'-0" 1/16777216" = 1'-0" 1/33554432" = 1'-0" 1/67108864" = 1'-0" 1/134217728" = 1'-0" 1/268435456" = 1'-0" 1/536870912" = 1'-0" 1/1073741824" = 1'-0" 1/2147483648" = 1'-0" 1/4294967296" = 1'-0" 1/8589934592" = 1'-0" 1/17179869184" = 1'-0" 1/34359738368" = 1'-0" 1/68719476736" = 1'-0" 1/137438953472" = 1'-0" 1/274877906944" = 1'-0" 1/549755813888" = 1'-0" 1/1099511627776" = 1'-0" 1/2199023255552" = 1'-0" 1/4398046511104" = 1'-0" 1/8796093022208" = 1'-0" 1/17592186044416" = 1'-0" 1/35184372088832" = 1'-0" 1/70368744177664" = 1'-0" 1/140737488355328" = 1'-0" 1/281474976710656" = 1'-0" 1/562949953421312" = 1'-0" 1/1125899906842624" = 1'-0" 1/2251799813685248" = 1'-0" 1/4503599627370496" = 1'-0" 1/9007199254740992" = 1'-0" 1/18014398509481984" = 1'-0" 1/36028797018963968" = 1'-0" 1/72057594037927936" = 1'-0" 1/144115188075855872" = 1'-0" 1/288230376151711744" = 1'-0" 1/576460752303423488" = 1'-0" 1/1152921504606846976" = 1'-0" 1/2305843009213693952" = 1'-0" 1/4611686018427387904" = 1'-0" 1/9223372036854775808" = 1'-0" 1/18446744073709551616" = 1'-0" 1/36893488147419103232" = 1'-0" 1/73786976294838206464" = 1'-0" 1/147573952589676412928" = 1'-0" 1/295147905179352825856" = 1'-0" 1/590295810358705651712" = 1'-0" 1/1180591620717411303424" = 1'-0" 1/2361183241434822606848" = 1'-0" 1/4722366482869645213696" = 1'-0" 1/9444732965739290427392" = 1'-0" 1/18889465931478580854784" = 1'-0" 1/37778931862957161709568" = 1'-0" 1/75557863725914323419136" = 1'-0" 1/151115727451828646838272" = 1'-0" 1/302231454903657293676544" = 1'-0" 1/604462909807314587353088" = 1'-0" 1/1208925819614629174706176" = 1'-0" 1/2417851639229258349412352" = 1'-0" 1/4835703278458516698824704" = 1'-0" 1/9671406556917033397649408" = 1'-0" 1/19342813113834066795298816" = 1'-0" 1/38685626227668133590597632" = 1'-0" 1/77371252455336267181195264" = 1'-0" 1/154742504910672534362390528" = 1'-0" 1/309485009821345068724781056" = 1'-0" 1/618970019642690137449562112" = 1'-0" 1/1237940039285380274899124224" = 1'-0" 1/2475880078570760549798248448" = 1'-0" 1/4951760157141521099596496896" = 1'-0" 1/9903520314283042199192993792" = 1'-0" 1/19807040628566084398385987584" = 1'-0" 1/39614081257132168796771975168" = 1'-0" 1/79228162514264337593543950336" = 1'-0" 1/158456325028528675187087900672" = 1'-0" 1/316912650057057350374175801344" = 1'-0" 1/633825300114114700748351602688" = 1'-0" 1/1267650600228229401496703205376" = 1'-0" 1/2535301200456458802993406410752" = 1'-0" 1/5070602400912917605986812821504" = 1'-0" 1/10141204801825835211973625643008" = 1'-0" 1/20282409603651670423947251286016" = 1'-0" 1/40564819207303340847894502572032" = 1'-0" 1/81129638414606681695789005144064" = 1'-0" 1/162259276829213363391578010288128" = 1'-0" 1/324518553658426726783156020576256" = 1'-0" 1/649037107316853453566312041152512" = 1'-0" 1/1298074214633706907132624082305024" = 1'-0" 1/2596148429267413814265248164610048" = 1'-0" 1/5192296858534827628530496329220096" = 1'-0" 1/10384593717069655257060992658440192" = 1'-0" 1/20769187434139310514121985316880384" = 1'-0" 1/41538374868278621028243970633760768" = 1'-0" 1/83076749736557242056487941267521536" = 1'-0" 1/166153499473114484112975882535043072" = 1'-0" 1/332306998946228968225951765070086144" = 1'-0" 1/664613997892457936451903530140172288" = 1'-0" 1/1329227995784915872903807060280344576" = 1'-0" 1/2658455991569831745807614120560689152" = 1'-0" 1/53169119831396634916152282
REVIEWED				1/4" = 1'-0" 1/8" = 1'-0" 1/16" = 1'-0" 1/32" = 1'-0" 1/64" = 1'-0" 1/128" = 1'-0" 1/256" = 1'-0" 1/512" = 1'-0" 1/1024" = 1'-0" 1/2048" = 1'-0" 1/4096" = 1'-0" 1/8192" = 1'-0" 1/16384" = 1'-0" 1/32768" = 1'-0" 1/65536" = 1'-0" 1/131072" = 1'-0" 1/262144" = 1'-0" 1/524288" = 1'-0" 1/1048576" = 1'-0" 1/2097152" = 1'-0" 1/4194304" = 1'-0" 1/8388608" = 1'-0" 1/16777216" = 1'-0" 1/33554432" = 1'-0" 1/67108864" = 1'-0" 1/134217728" = 1'-0" 1/268435456" = 1'-0" 1/536870912" = 1'-0" 1/1073741824" = 1'-0" 1/2147483648" = 1'-0" 1/4294967296" = 1'-0" 1/8589934592" = 1'-0" 1/17179869184" = 1'-0" 1/34359738368" = 1'-0" 1/68719476736" = 1'-0" 1/137438953472" = 1'-0" 1/274877906944" = 1'-0" 1/549755813888" = 1'-0" 1/1099511627776" = 1'-0" 1/2199023255552" = 1'-0" 1/4398046511104" = 1'-0" 1/8796093022208" = 1'-0" 1/17592186044416" = 1'-0" 1/35184372088832" = 1'-0" 1/70368744177664" = 1'-0" 1/140737488355328" = 1'-0" 1/281474976710656" = 1'-0" 1/562949953421312" = 1'-0" 1/1125899906842624" = 1'-0" 1/2251799813685248" = 1'-0" 1/4503599627370496" = 1'-0" 1/9007199254740992" = 1'-0" 1/18014398509481984" = 1'-0" 1/36028797018963968" = 1'-0" 1/72057594037927936" = 1'-0" 1/144115188075855872" = 1'-0" 1/288230376151711744" = 1'-0" 1/576460752303423488" = 1'-0" 1/1152921504606846976" = 1'-0" 1/2305843009213693952" = 1'-0" 1/4611686018427387904" = 1'-0" 1/9223372036854775808" = 1'-0" 1/18446744073709551616" = 1'-0" 1/36893488147419103232" = 1'-0" 1/73786976294838206464" = 1'-0" 1/147573952589676412928" = 1'-0" 1/295147905179352825856" = 1'-0" 1/590295810358705651712" = 1'-0" 1/1180591620717411303424" = 1'-0" 1/2361183241434822606848" = 1'-0" 1/4722366482869645213696" = 1'-0" 1/9444732965739290427392" = 1'-0" 1/18889465931478580854784" = 1'-0" 1/37778931862957161709568" = 1'-0" 1/75557863725914323419136" = 1'-0" 1/151115727451828646838272" = 1'-0" 1/302231454903657293676544" = 1'-0" 1/604462909807314587353088" = 1'-0" 1/1208925819614629174706176" = 1'-0" 1/2417851639229258349412352" = 1'-0" 1/4835703278458516698824704" = 1'-0" 1/9671406556917033397649408" = 1'-0" 1/19342813113834066795298816" = 1'-0" 1/38685626227668133590597632" = 1'-0" 1/77371252455336267181195264" = 1'-0" 1/154742504910672534362390528" = 1'-0" 1/309485009821345068724781056" = 1'-0" 1/618970019642690137449562112" = 1'-0" 1/1237940039285380274899124224" = 1'-0" 1/2475880078570760549798248448" = 1'-0" 1/4951760157141521099596496896" = 1'-0" 1/9903520314283042199192993792" = 1'-0" 1/19807040628566084398385987584" = 1'-0" 1/39614081257132168796771975168" = 1'-0" 1/79228162514264337593543950336" = 1'-0" 1/158456325028528675187087900672" = 1'-0" 1/316912650057057350374175801344" = 1'-0" 1/633825300114114700748351602688" = 1'-0" 1/1267650600228229401496703205376" = 1'-0" 1/2535301200456458802993406410752" = 1'-0" 1/5070602400912917605986812821504" = 1'-0" 1/10141204801825835211973625643008" = 1'-0" 1/20282409603651670423947251286016" = 1'-0" 1/40564819207303340847894502572032" = 1'-0" 1/81129638414606681695789005144064" = 1'-0" 1/162259276829213363391578010288128" = 1'-0" 1/324518553658426726783156020576256" = 1'-0" 1/649037107316853453566312041152512" = 1'-0" 1/1298074214633706907132624082305024" = 1'-0" 1/2596148429267413814265248164610048" = 1'-0" 1/5192296858534827628530496329220096" = 1'-0" 1/10384593717069655257060992658440192" = 1'-0" 1/20769187434139310514121985316880384" = 1'-0" 1/41538374868278621028243970633760768" = 1'-0" 1/83076749736557242056487941267521536" = 1'-0" 1/166153499473114484112975882535043072" = 1'-0" 1/332306998946228968225951765070086144" = 1'-0" 1/664613997892457936451903530140172288" = 1'-0" 1/1329227995784915872903807060280344576" = 1'-0" 1/2658455991569831745807614120560689152" = 1'-0" 1/53169119831396634916152282
UNDESIGNED				1/4" = 1'-0" 1/8" = 1'-0" 1/16" = 1'-0" 1/32" = 1'-0" 1/64" = 1'-0" 1/128" = 1'-0" 1/256" = 1'-0" 1/512" = 1'-0" 1/1024" = 1'-0" 1/2048" = 1'-0" 1/4096" = 1'-0" 1/8192" = 1'-0" 1/16384" = 1'-0" 1/32768" = 1'-0" 1/65536" = 1'-0" 1/131072" = 1'-0" 1/262144" = 1'-0" 1/524288" = 1'-0" 1/1048576" = 1'-0" 1/2097152" = 1'-0" 1/4194304" = 1'-0" 1/8388608" = 1'-0" 1/16777216" = 1'-0" 1/33554432" = 1'-0" 1/67108864" = 1'-0" 1/134217728" = 1'-0" 1/268435456" = 1'-0" 1/536870912" = 1'-0" 1/1073741824" = 1'-0" 1/2147483648" = 1'-0" 1/4294967296" = 1'-0" 1/8589934592" = 1'-0" 1/17179869184" = 1'-0" 1/34359738368" = 1'-0" 1/68719476736" = 1'-0" 1/137438953472" = 1'-0" 1/274877906944" = 1'-0" 1/549755813888" = 1'-0" 1/1099511627776" = 1'-0" 1/2199023255552" = 1'-0" 1/4398046511104" = 1'-0" 1/8796093022208" = 1'-0" 1/17592186044416" = 1'-0" 1/35184372088832" = 1'-0" 1/70368744177664" = 1'-0" 1/140737488355328" = 1'-0" 1/281474976710656" = 1'-0" 1/562949953421312" = 1'-0" 1/1125899906842624" = 1'-0" 1/2251799813685248" = 1'-0" 1/4503599627370496" = 1'-0" 1/9007199254740992" = 1'-0" 1/18014398509481984" = 1'-0" 1/36028797018963968" = 1'-0" 1/72057594037927936" = 1'-0" 1/144115188075855872" = 1'-0" 1/288230376151711744" = 1'-0" 1/576460752303423488" = 1'-0" 1/1152921504606846976" = 1'-0" 1/2305843009213693952" = 1'-0" 1/4611686018427387904" = 1'-0" 1/9223372036854775808" = 1'-0" 1/18446744073709551616" = 1'-0

EASTERN CAPE SCHOOL BUILDING PROGRAMME



DEPARTMENT OF
EDUCATION

PROJECT

**IDT SCHOOL BUILDING
PROGRAMME**

DRAWING TITLE

NTSONKOTHA SSS
DORMITORY SECTIONS

OWNS NUMBER	CONTRACT	DISCRIPTION	QUANTITY	REMARKS
200600642	LADY FRERE	ARCHITECTURE	10TANTS BOYS2.105	-

NOTES:
 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 6. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 7. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 8. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

NOTE:
 FEMALE TOILETS
 12 x WC
 5 x WASHBASINS
 2 x BATHS
 5 x SHOWERS

CONSULTANTS

PRINCIPAL ARCHT	Roelweld Quantity Surveyors
QUANTITY SURVEYORS	Roelweld Quantity Surveyors
ARCHITECTS	Ngonyama Okpanum & Associates
STRUCTURAL/CIVIL ENGINEERS	
ELECTRICAL ENGINEERS	

Ngonyama Okpanum & Associates

REGISTERED PROJECT MANAGER/URBAN DESIGNER/INTERIOR DESIGNER

NAME	SIGNATURE	DATE	TEST SIZE
DESIGNED			A0
DRAWN			1:100
CHECKED			
APPROVED			

EASTERN CAPE SCHOOL BUILDING PROGRAMME

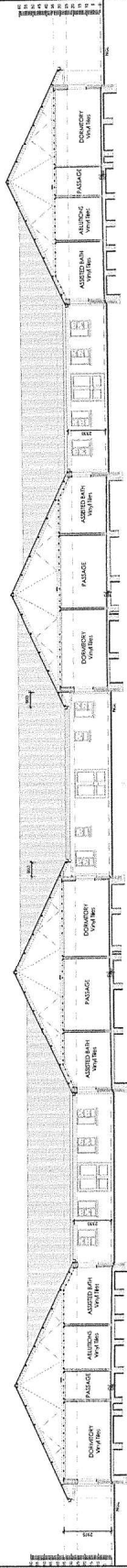


DEPARTMENT OF EDUCATION
 INDEPENDENT DEVELOPMENT CORPORATION

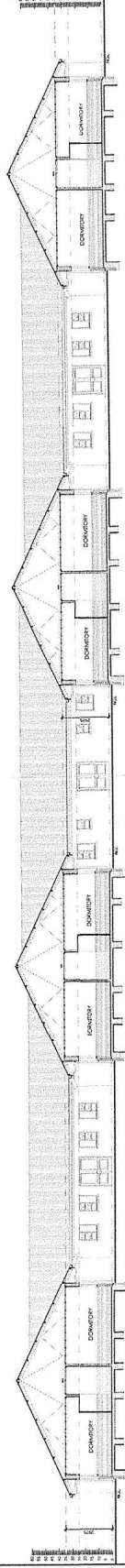
PROJECT
 IDT SCHOOL BUILDING PROGRAMME

DRAWING TITLE
 NTSONKOTHA SSS DORMITORY SECTIONS

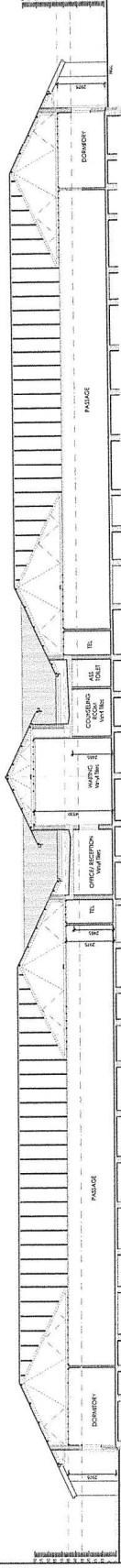
DWG NO.	DATE	DESCRIPTION	REVISION
20050941	LADY PREER	ARCHITECTURE	01/01/2005



SECTION - EE



SECTION - FF



SECTION - GG

1. DRAINAGE: 40% TO 60% SLOPED TO DRAINAGE DRAINAGE TO THE STREET.

2. ALL LEVELS: 40% TO 60% SLOPED TO DRAINAGE DRAINAGE TO THE STREET.

3. CONSTRUCTION TO BE COMPLETED WITHIN 12 MONTHS OF THE DATE OF THE CONTRACT.

4. ALL STRUCTURES SHALL BE CONSTRUCTED TO BE WITHIN THE 12 MONTHS OF THE DATE OF THE CONTRACT.

5. ALL WORK TO BE COMPLETED WITHIN 12 MONTHS OF THE DATE OF THE CONTRACT.

[illegible]

PRINCIPAL AGENT	
Roeleveld Quantity Surveyors	
QUANTITY SURVEYORS	
Roeleveld Quantity Surveyors	
ARCHITECTS	
Ngonyama Okpanum & Associates	
STRUCTURAL/CIVIL ENGINEERS	
CSSE CIVIL & STRUCTURAL ENGINEERS	
ELECTRICAL ENGINEERS	
MXN ELECTROCON PROJECTS	



NAME	SIGNATURE	DATE	SHEET NO.
DRIVER	-		A1
PAINT	-		
WELD	-		
ADDED	-		

TOTAL 150
 TOTAL HOURS 150
 15 TENSILE
 15 IN TENSION
 AS A SUBJECT



www.idt.com

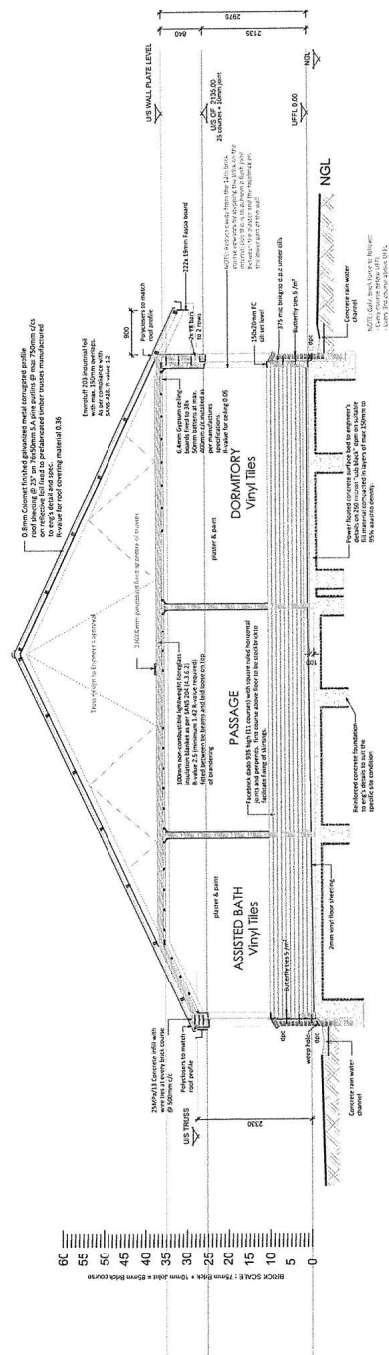
DEPARTMENT OF INDEPENDENT DEVELOPMENT
EDUCATION CORPORATION

STANDARD

IDT SCHOOL BUILDING
PROGRAMME

NTSOKOTHA SSS
1:50 TYPICAL SECTION

EMS NUMBER	TOWN/DISTRICT	DISCIPLINE	DRAWING NUMBER	REVISION
200500942	LADY FRERE	ARCHITECTURE	10TNTSBOYS2.107	-



TYPICAL SECTION scale 1:50

NOTES:
 1. DRAWING OF THIS BUILDING SHOULD BE KEPT IN THE ARCHITECT'S OFFICE FOR REFERENCE.
 2. ALL WORK SHOULD BE DONE IN ACCORDANCE WITH THE SOUTH AFRICAN NATIONAL BUILDING REGULATIONS.
 3. THE ARCHITECT'S OFFICE SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE BUILDING.
 4. THE ARCHITECT'S OFFICE SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE BUILDING.
 5. THE ARCHITECT'S OFFICE SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE BUILDING.

NO.	DATE	DESCRIPTION
1		ISSUED FOR PERMIT
2		
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Ngonyama Okpanum & Associates
 ARCHITECTS/PROJECT MANAGERS/URBAN DESIGNERS/INTERIOR DESIGNERS

- CONSULTANTS**
- PRINCIPAL AGENT
 - Reveland Quantity Surveyors
 - Quantity Surveyors
 - Reveland Quantity Surveyors
 - Architects
 - Ngonyama Okpanum & Associates
 - STRUCTURAL ENGINEERS
 - CSE CIVIL & STRUCTURAL ENGINEERS
 - ELECTRICAL ENGINEERS
 - MMT ELECTROCON PROJECTS

Ngonyama Okpanum & Associates
 REGISTERED PROJECT MANAGERS/URBAN DESIGNERS/INTERIOR DESIGNERS

NAME	SIGNATURE	DATE
DESIGNED		A1
DRAWN		150
CHECKED		
VERIFIED		
VALUED		

EASTERN CAPE SCHOOL BUILDING PROGRAMME

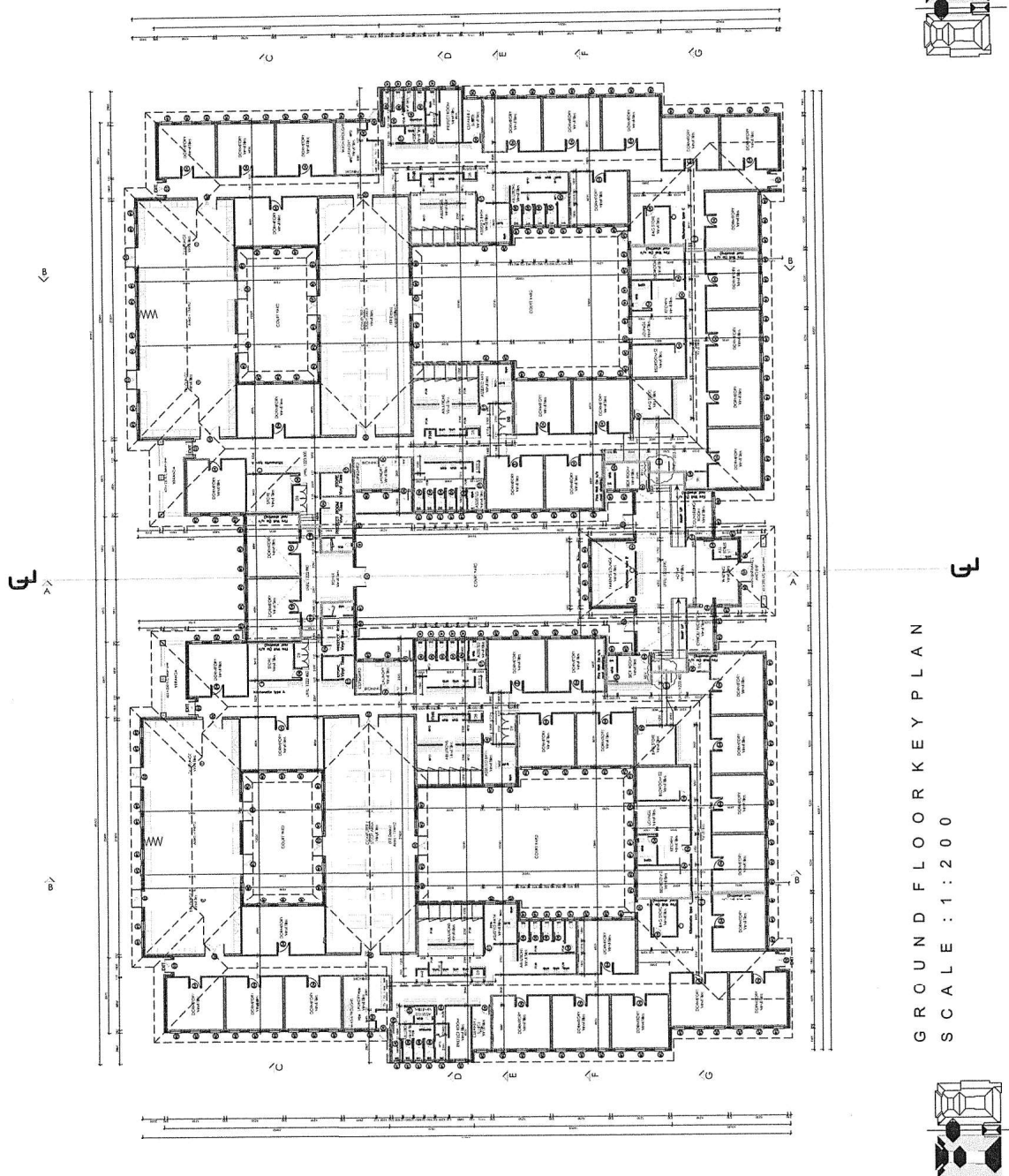


DEPARTMENT OF EDUCATION
INDEPENDENT DEVELOPMENT CORPORATION

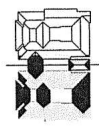
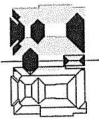
PROJECT
IDT SCHOOL BUILDING PROGRAMME

DRAWING TITLE
NTSOKOTHA SSS - GIRLS
GROUND FLOOR KEY PLAN

DATE	REVISION	BY	DATE
2008/06/21	LADY FREIRE ARCHITECTURE/NTSOKOTHA GIRLS S.S. 201		



GROUND FLOOR KEY PLAN
SCALE : 1 : 200



NOTES:
 1. CONSULTANT TO BE KEPT ADVISED OF ANY CHANGES TO THE DESIGN.
 2. ALL WORK TO BE COMPLETED BY THE END OF THE PROJECT.
 3. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING.
 4. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING.
 5. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING.

NO.	DATE	DESCRIPTION
1		ISSUED FOR
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7		
8		
9		
10		

NOTE:
 FEMALE TOILETS
 12 x WC
 5 x WASHBASINS
 24 BATHS
 3 x SHOWERS

CONSULTANTS

PRINCIPAL AGENT
Redevelop Quantity Surveyors
QUANTITY SURVEYORS
Redevelop Quantity Surveyors
ARCHITECTS
Ngonyama Okpanum & Associates
STRUCTURAL/CIVIL ENGINEERS
ELECTRICAL ENGINEERS

Ngonyama Okpanum & Associates

PROJECT: PROJECT MANAGER: URBAN DESIGNER: INTERIOR DESIGNER:

1. ALL WORK TO BE COMPLETED BY THE END OF THE PROJECT.

2. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING.

3. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING.

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19. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING.

20. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING.

EASTERN CAPE SCHOOL BUILDING PROGRAMME



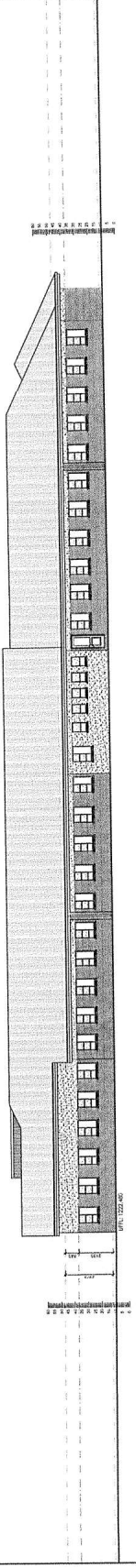
INDEPENDENT DEVELOPMENT CORPORATION

DEPARTMENT OF EDUCATION

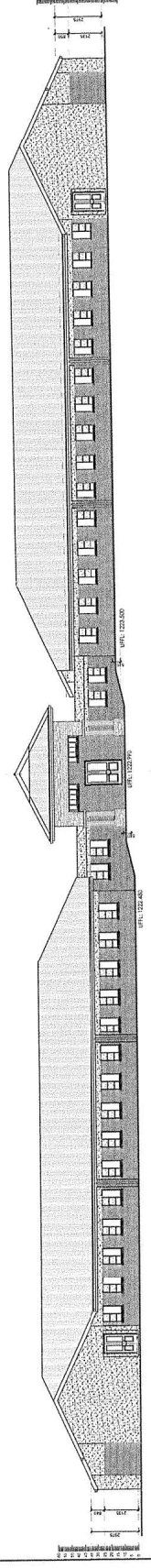
PROJECT
 IDT SCHOOL BUILDING PROGRAMME

DRAWING TITLE
 NITSONKOTHA SSS - GIRLS
 DORMITORY ELEVATIONS

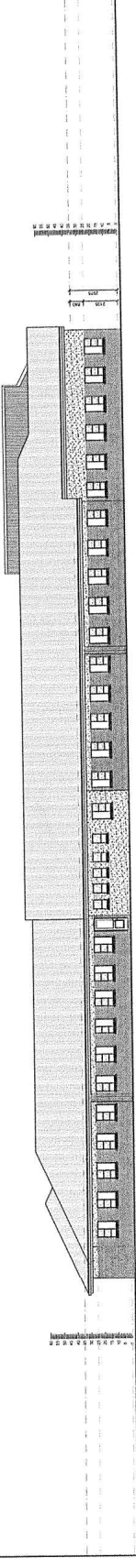
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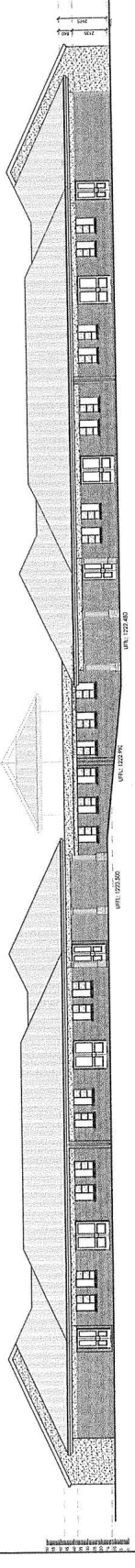
EAST ELEVATION
 SCALE 1:1000



SOUTH ELEVATION
 SCALE 1:1000



WEST ELEVATION
 SCALE 1:1000



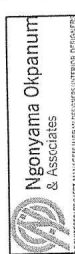
NORTH ELEVATION
 SCALE 1:1000

NOTE:
1. All work is to be done in accordance with the relevant standards and specifications.
2. The design is based on the information provided and is subject to change without notice.
3. The design is for a typical building and does not take into account any specific site conditions.
4. The design is for a typical building and does not take into account any specific site conditions.

NO.	DATE	REVISION
1		ISSUED FOR PERMIT
2		ISSUED FOR PERMIT
3		ISSUED FOR PERMIT
4		ISSUED FOR PERMIT
5		ISSUED FOR PERMIT
6		ISSUED FOR PERMIT
7		ISSUED FOR PERMIT
8		ISSUED FOR PERMIT
9		ISSUED FOR PERMIT
10		ISSUED FOR PERMIT

NOTE:
1. All work is to be done in accordance with the relevant standards and specifications.
2. The design is based on the information provided and is subject to change without notice.
3. The design is for a typical building and does not take into account any specific site conditions.
4. The design is for a typical building and does not take into account any specific site conditions.

CONSULTANTS
PRINCIPAL AGENT Roelweld Quantity Surveyors QUANTITY SURVEYORS Roelweld Quantity Surveyors ARCHITECTS Ngonyama Okpanum & Associates STRUCTURAL/CLIMATE ENGINEERS CSE ELECTRICAL ENGINEERS MXM Electrical Projects



NAME	SIGNATURE	DATE
DESIGNED		
DRAWN		
CHECKED		
VALUED		

EASTERN CAPE SCHOOL BUILDING
PROGRAMME

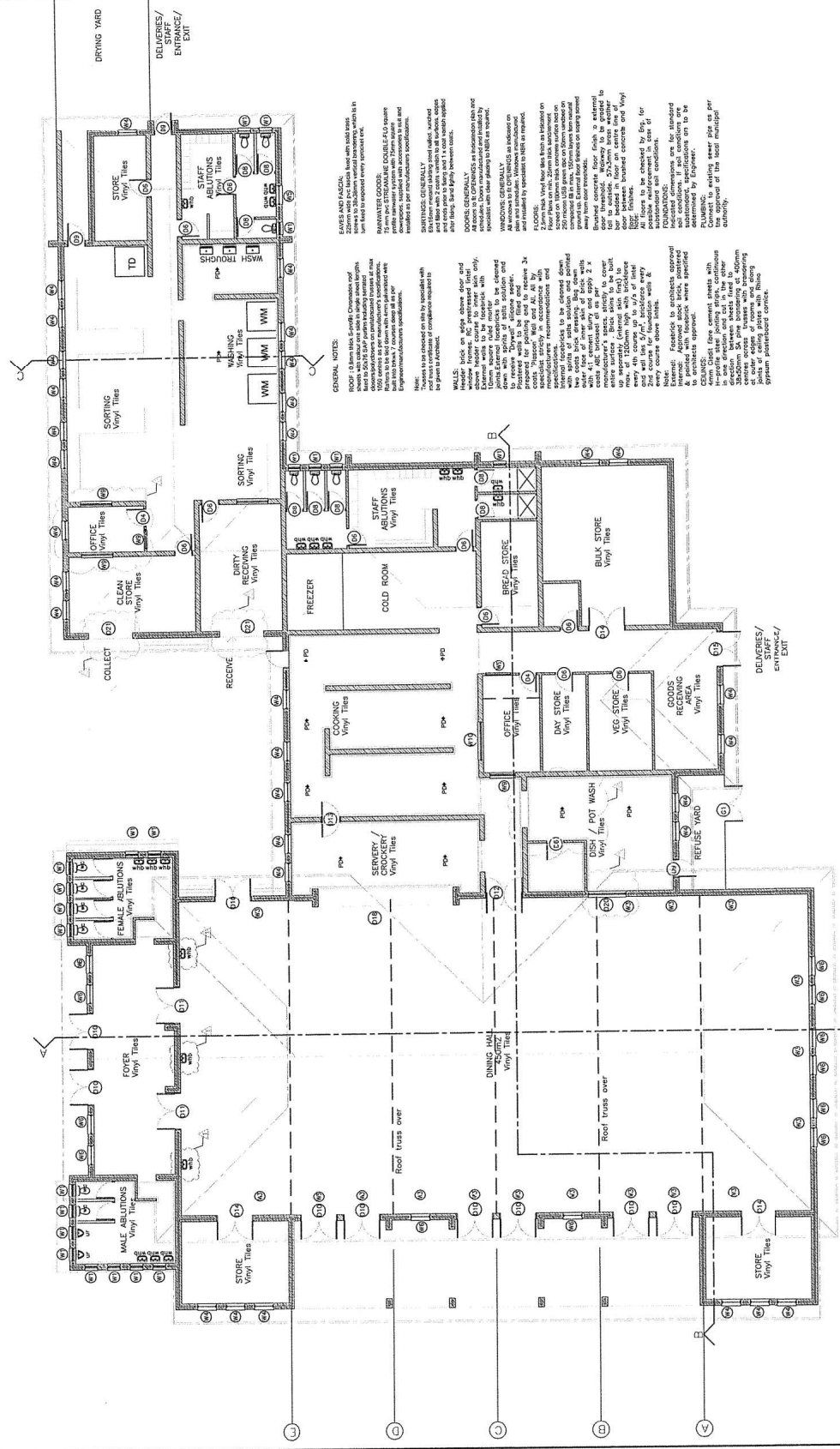


DEPARTMENT OF
PUBLIC WORKS

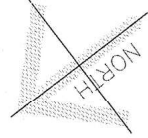
PROJECT
IDT SCHOOL BUILDING
PROGRAMME

DRAWING TITLE
NTSONKOTHA SSS
HALL / DINING / KITCHEN

DRAWING NUMBER	DESCRIPTION	DATE
1	ARCHITECTURE	DINTSHALAZI 201
2		



GROUND FLOOR PLAN
SCALE 1:1000



GENERAL NOTE:
ROOF: 1. All work is to be done in accordance with the relevant standards and specifications.
2. The design is based on the information provided and is subject to change without notice.
3. The design is for a typical building and does not take into account any specific site conditions.
4. The design is for a typical building and does not take into account any specific site conditions.

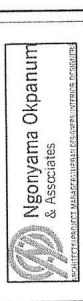
GENERAL NOTE:
ROOF: 1. All work is to be done in accordance with the relevant standards and specifications.
2. The design is based on the information provided and is subject to change without notice.
3. The design is for a typical building and does not take into account any specific site conditions.
4. The design is for a typical building and does not take into account any specific site conditions.

GENERAL NOTE:
ROOF: 1. All work is to be done in accordance with the relevant standards and specifications.
2. The design is based on the information provided and is subject to change without notice.
3. The design is for a typical building and does not take into account any specific site conditions.
4. The design is for a typical building and does not take into account any specific site conditions.

NOTES:
1. CONSULT THE ARCHITECT FOR ANY CHANGES TO THE DESIGN.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE SOUTH AFRICAN NATIONAL STANDARDS (SANS) 10400-1 TO 10400-10.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SERVICES AND STRUCTURES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING PLANT AND EQUIPMENT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING LANDSCAPE AND VEGETATION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND SERVICES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES AND SERVICES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING PLANT AND EQUIPMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING LANDSCAPE AND VEGETATION.

REVISIONS	DATE	DESCRIPTION
1	15/01/2020	ISSUED FOR PERMIT
2	15/01/2020	ISSUED FOR PERMIT
3	15/01/2020	ISSUED FOR PERMIT
4	15/01/2020	ISSUED FOR PERMIT
5	15/01/2020	ISSUED FOR PERMIT
6	15/01/2020	ISSUED FOR PERMIT
7	15/01/2020	ISSUED FOR PERMIT
8	15/01/2020	ISSUED FOR PERMIT
9	15/01/2020	ISSUED FOR PERMIT
10	15/01/2020	ISSUED FOR PERMIT

CONSULTANTS
PRINCIPAL AGENT
Roelofsd Quantity Surveyors
QUANTITY SURVEYORS
Roelofsd Quantity Surveyors
ARCHITECTS
Ngonyama Okpanum & Associates
STRUCTURAL ENGINEERS
ELECTRICAL ENGINEERS



NAME	SIGNATURE	DATE
DESIGNED		
DRAWN		
CHECKED		
VERIFIED		
VALUED		

EASTERN CAPE SCHOOL BUILDING
PROGRAMME



DEPARTMENT OF PUBLIC WORKS
CORPORATION

PROJECT
IDT SCHOOL BUILDING
PROGRAMME

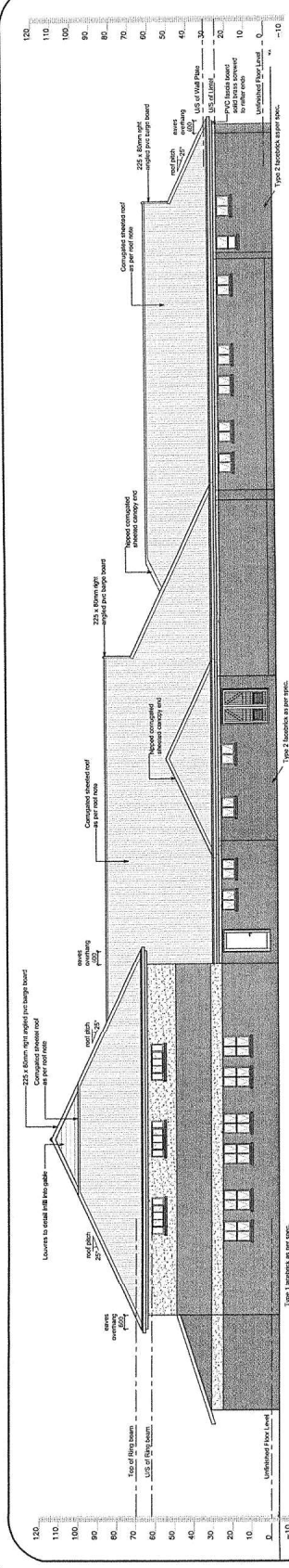
DRAWING TITLE
NTSONKOTHA SSS
ELEVATIONS

DATE
15/01/2020

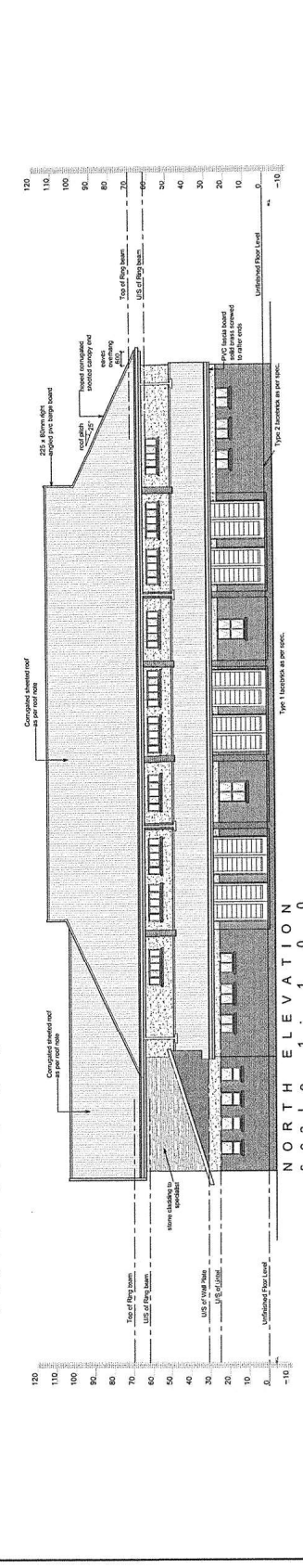
BY
IDT/NTS/ALC/202

SCALE
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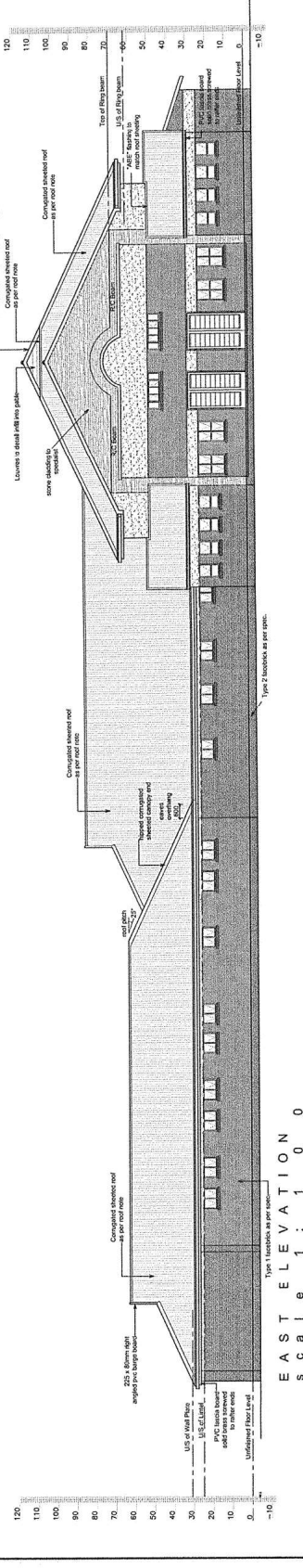
SECTION
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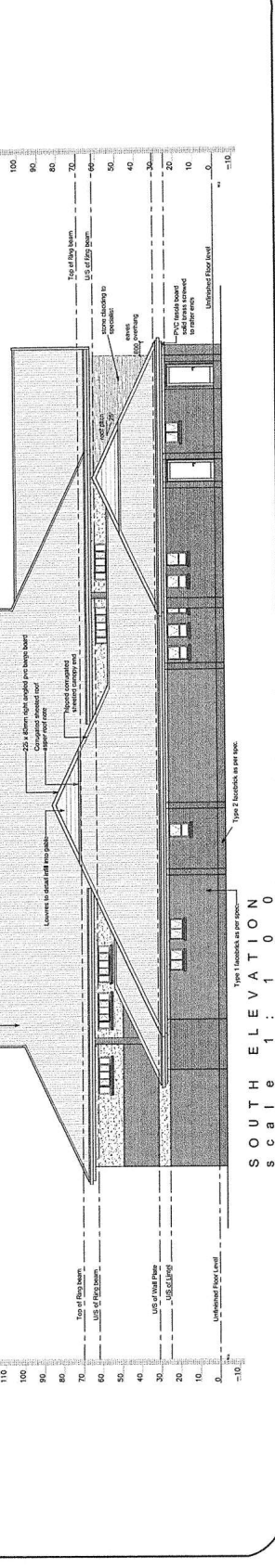
WEST ELEVATION
Scale 1:100



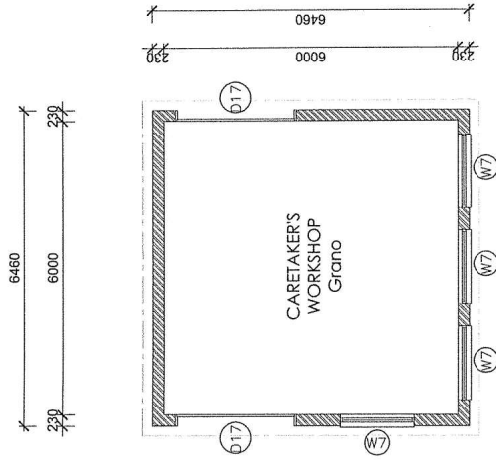
NORTH ELEVATION
Scale 1:100



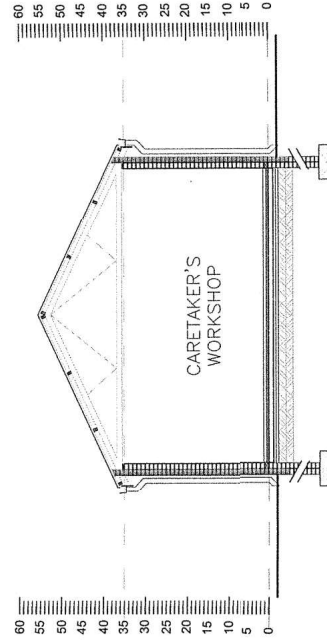
EAST ELEVATION
Scale 1:100



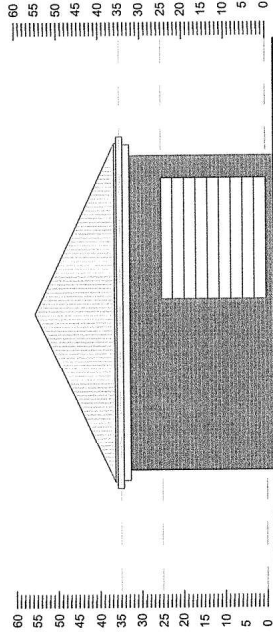
SOUTH ELEVATION
Scale 1:100



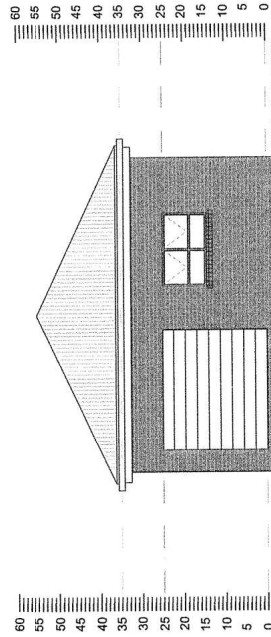
P L A N
Scale 1 : 5 0



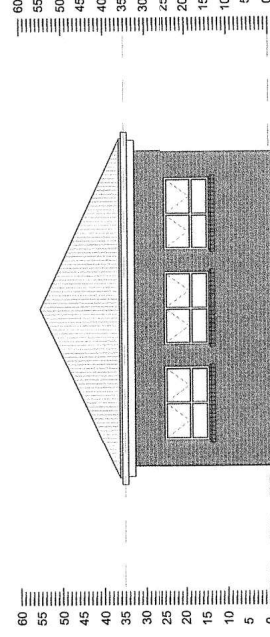
S E C T I O N
Scale 1 : 5 0



N O R T H E A S T
E L E V A T I O N
Scale 1 : 5 0



S O U T H W E S T
E L E V A T I O N
Scale 1 : 5 0



S O U T H E A S T
E L E V A T I O N
Scale 1 : 5 0

NOTES
1. MATERIALS TO BE USED SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE SOUTH AFRICAN BUREAU OF STANDARDS (SABS) AND THE SOUTH AFRICAN STANDARD SPECIFICATIONS (SASS) FOR CONSTRUCTION MATERIALS.
2. THE DESIGNER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS OF THE BUILDING OR THE MATERIALS USED IN THE CONSTRUCTION.
3. THE DESIGNER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS OF THE BUILDING OR THE MATERIALS USED IN THE CONSTRUCTION.

NO.	DATE	REVISIONS
1	10/01/2010	1. INITIAL DESIGN
2	10/01/2010	2. REVISIONS TO THE DESIGN
3	10/01/2010	3. REVISIONS TO THE DESIGN
4	10/01/2010	4. REVISIONS TO THE DESIGN
5	10/01/2010	5. REVISIONS TO THE DESIGN
6	10/01/2010	6. REVISIONS TO THE DESIGN
7	10/01/2010	7. REVISIONS TO THE DESIGN
8	10/01/2010	8. REVISIONS TO THE DESIGN
9	10/01/2010	9. REVISIONS TO THE DESIGN
10	10/01/2010	10. REVISIONS TO THE DESIGN

NOTE:
FEMALE TOILETS
12 x WC
5 x WASHBASINS
5 x SHOWERS
5 x SHOWERS

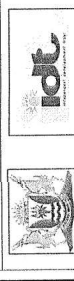
CONSULTANTS

PRINCIPAL AGENT
Roelweld Quantity Surveyors
Roelweld Quantity Surveyors
Roelweld Quantity Surveyors
ARCHITECTS
Ngonvama Okpanum & Associates
STRUCTURAL CIVIL ENGINEERS
ELECTRICAL ENGINEERS

Ngonvama Okpanum
& Associates
1. THE DESIGNER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS OF THE BUILDING OR THE MATERIALS USED IN THE CONSTRUCTION.
2. THE DESIGNER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS OF THE BUILDING OR THE MATERIALS USED IN THE CONSTRUCTION.

NAME	SIGNATURE	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

EASTERN CAPE SCHOOL BUILDING
PROGRAMME

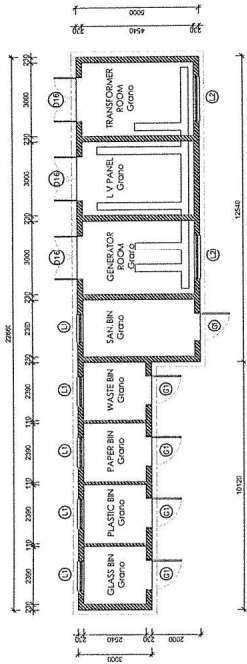


DEPARTMENT OF INDEPENDENT DEVELOPMENT
PUBLIC WORKS
CORPORATION

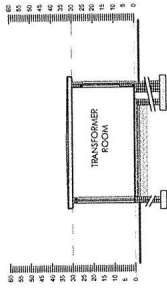
PROJECT
IDT SCHOOL BUILDING
PROGRAMME

DRAWING TITLE
NTSONKOTHA SSS
HALL / DINING / KITCHEN

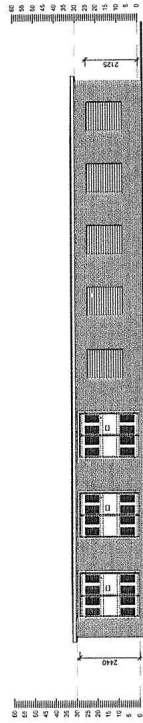
NO.	DATE	REVISIONS
1	10/01/2010	1. INITIAL DESIGN
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4	10/01/2010	4. REVISIONS TO THE DESIGN
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6	10/01/2010	6. REVISIONS TO THE DESIGN
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10	10/01/2010	10. REVISIONS TO THE DESIGN



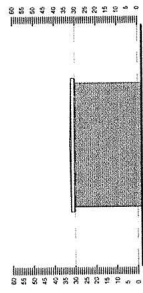
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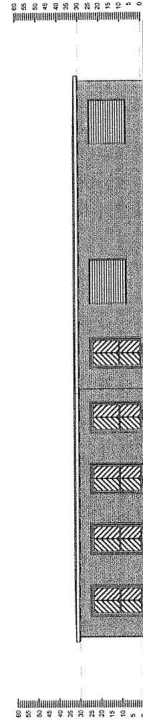
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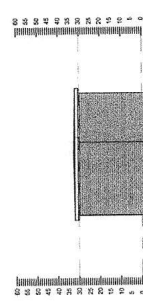
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NOTES:
1. EXISTING BUILDING SHALL BE MAINTAINED AND NOT
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10. EXISTING BUILDING SHALL BE MAINTAINED AND NOT

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8	10/01/2010	ISSUED FOR TENDER
9	10/01/2010	ISSUED FOR TENDER
10	10/01/2010	ISSUED FOR TENDER

CONSULTANTS

PRINCIPAL AGENT
Roelefeld Quantity Surveyors
QUANTITY SURVEYORS
Roelefeld Quantity Surveyors
ARCHITECTS
Ngoniyama Okpanum & Associates
STRUCTURAL CIVIL ENGINEERS
ELECTRICAL ENGINEERS

Ngoniyama Okpanum & Associates
 1. EXISTING BUILDING SHALL BE MAINTAINED AND NOT
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 9. EXISTING BUILDING SHALL BE MAINTAINED AND NOT
 10. EXISTING BUILDING SHALL BE MAINTAINED AND NOT

NAME	SIGNATURE	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

EASTERN CAPE SCHOOL BUILDING PROGRAMME

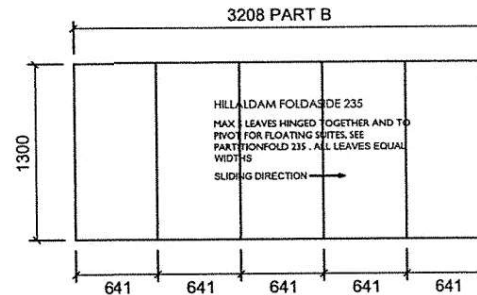
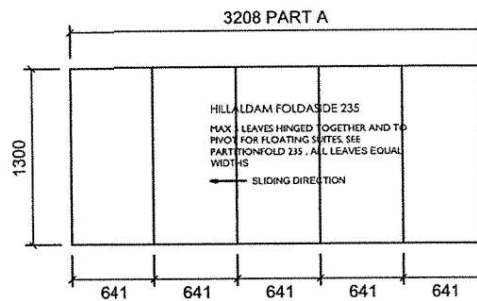
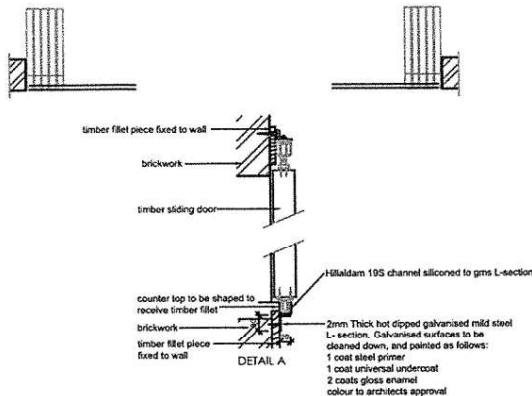
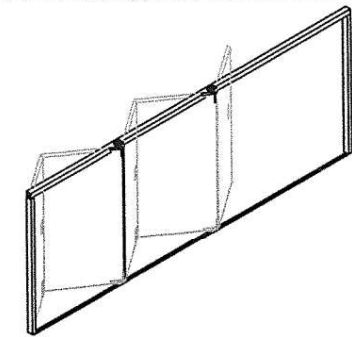
idc
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DEPARTMENT OF INDEPENDENT DEVELOPMENT PUBLIC WORKS CORPORATION

PROJECT IDT SCHOOL BUILDING PROGRAMME

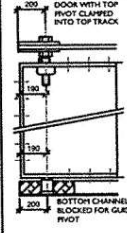
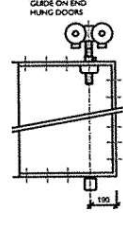
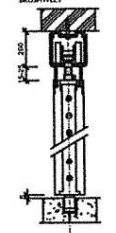
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NO.	DATE	DESCRIPTION
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3	10/01/2010	ISSUED FOR TENDER
4	10/01/2010	ISSUED FOR TENDER
5	10/01/2010	ISSUED FOR TENDER
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7	10/01/2010	ISSUED FOR TENDER
8	10/01/2010	ISSUED FOR TENDER
9	10/01/2010	ISSUED FOR TENDER
10	10/01/2010	ISSUED FOR TENDER



D18

SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D18
NO. REQ.	1
POSITION NO.	DOUBLE DOOR: DOUBLE FOLDING DOOR DINING HALL (SERVER)
DESCRIPTION	HILLALDAM COBURN SYSTEMS FOLDASIDE 235 SLIDING AND FOLDING DOOR HARDWARE COMPRISING 235 TOP TRACK AND PIVOTS, 235TP HANGERS, 19LA ALUMINIUM BOTTOM CHANNEL BLOCKED FOR GUIDE PIVOT, 235/19 GUIDE PIVOT, FOR 5 (5 LEFT OPENING) INTERIOR TOP HUNG SLIDING AND FOLDING TIMBER FRAMED COMMERCIAL DOORS NOT EXCEEDING 2700MM HIGH AND 44MM THICK, EACH LEAF NOT EXCEEDING 50KG AND NOT EXCEEDING 900MM WIDE, WITH 5 DOORS EACH LEAF SIZE 641MM WIDE X 1300MM HIGH, FIXED INSIDE JAMBS OF OPENING.
FINISH	-
SECURITY	As per manufacturer
FRAME	  
FINISH	-
IRONMONGERY	As per Schedule.
REMARKS	Door double swing. In accordance with SABS 0137-2000 Code of Practice
SILL	Refer to sill detail.

DOOR SCHEDULE

NTSONKOTHA S.S.S


REV NO
A

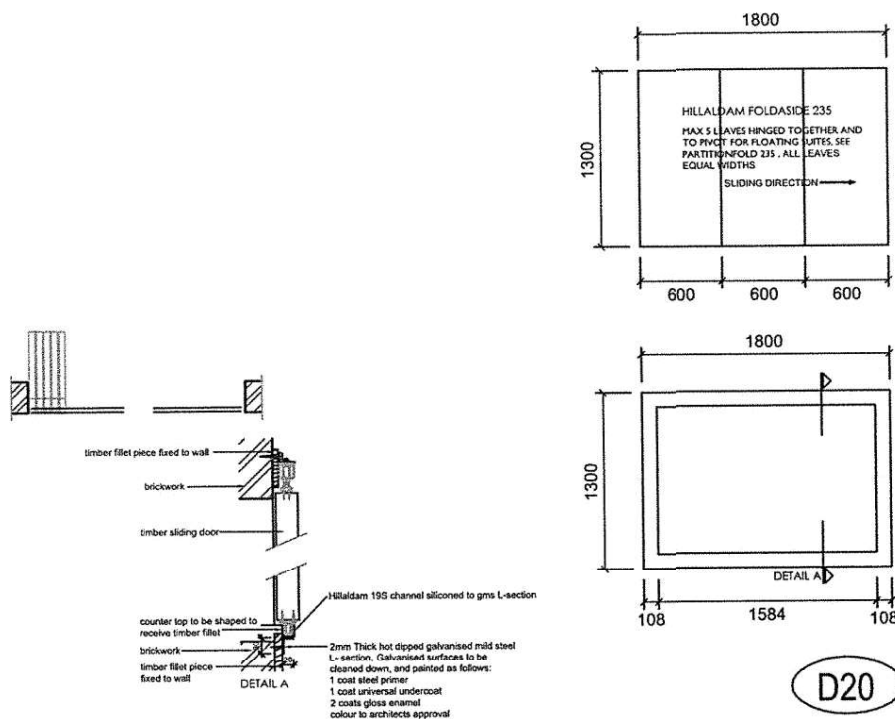
PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.118

SCALE
1:50

DRAWN
SJack
DATE
2017/03/15

D18

 Ngonyama Okpanum & Associates
ARCHITECTS, INTERIOR DESIGNERS, PROJECT MANAGERS, CIVIL ENGINEERS, ELECTRICAL ENGINEERS



D20

SUPPLIER TO MEASURE MASONRY OPENINGS ON SITE PRIOR TO COMMENCEMENT OF MANUFACTURE. ALL SHOPFRONTS TO BE DESIGN & SUPPLY - SUPPLIER TO BE IN ACCORDANCE WITH ALL SABS AND NBR STANDARDS

DOOR TYPE	D20
NO. REQ.	1
POSITION NO.	SINGLE DOOR: FOLDING DOOR DISH / POT WASH
DESCRIPTION	HILLALDAM COBURN SYSTEMS FOLDASIDE 235 SLIDING AND FOLDING DOOR HARDWARE COMPRISING 235 TOP TRACK AND PIVOTS, 235TP HANGERS, 19LA ALUMINIUM BOTTOM CHANNEL BLOCKED FOR GUIDE PIVOT, 235/19 GUIDE PIVOT, FOR 3 (3 RIGHT OPENING) INTERIOR TOP HUNG SLIDING AND FOLDING TIMBER FRAMED COMMERCIAL DOORS NOT EXCEEDING 2700MM HIGH AND 44MM THICK, EACH LEAF NOT EXCEEDING 50KG AND NOT EXCEEDING 900MM WIDE, WITH 3 DOORS EACH LEAF SIZE 600MM WIDE X 1300MM HIGH, FIXED INSIDE JAMBS OF OPENING.
FINISH	-
SECURITY	As per manufacturer
FRAME	
FINISH	-
IRONMONGERY	As per Schedule.
REMARKS	Door double swing. In accordance with SABS 0137-2000 Code of Practice
SILL	Refer to sill detail.

DOOR SCHEDULE

NTSONKOTHA S.S.S

REV NO
A

PROJECT NUMBER
IDT/NTSO/DS
DWG NUMBER
IDT/NTS/DS/5.120

SCALE
1:50

DRAWN
SJack
DATE
2017/03/15

D20

Ngonyama Okpanum & Associates
QUALITY PROJECT MANAGEMENT SERVICES

NOTES:
 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2. ALL MATERIALS AND FINISHES TO BE AS SPECIFIED IN THE BILL OF MATERIALS.
 3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE SANS 10400 SERIES.
 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE SANS 10400 SERIES.
 5. ALL WORK TO BE DONE IN ACCORDANCE WITH THE SANS 10400 SERIES.

NO.	DATE	REVISIONS
1	2023/01/01	ISSUED FOR TENDER
2	2023/01/01	ISSUED FOR TENDER
3	2023/01/01	ISSUED FOR TENDER
4	2023/01/01	ISSUED FOR TENDER
5	2023/01/01	ISSUED FOR TENDER
6	2023/01/01	ISSUED FOR TENDER
7	2023/01/01	ISSUED FOR TENDER
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10	2023/01/01	ISSUED FOR TENDER

CONSULTANTS

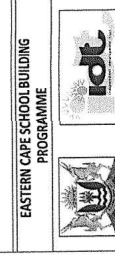
PRINCIPAL AGENT
 Roelweld Quantity Surveyors
 quantity services

ARCHITECTS
 Roelweld Quantity Surveyors
 Ngunyama Okpanum & Associates
 STRUCTURAL ENGINEERS

ELECTRICAL ENGINEERS



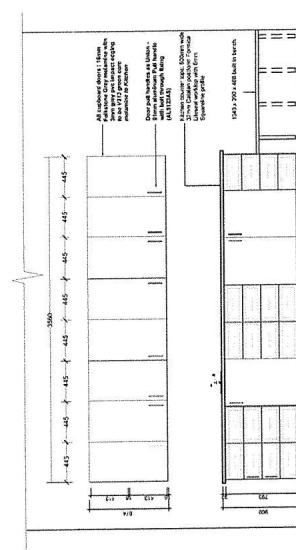
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DESIGNED		
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APPROVED		



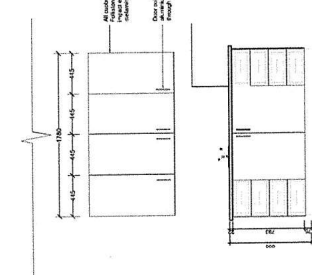
EASTERN CAPE SCHOOL BUILDING PROGRAMME

PROJECT
 IDT SCHOOL BUILDING PROGRAMME

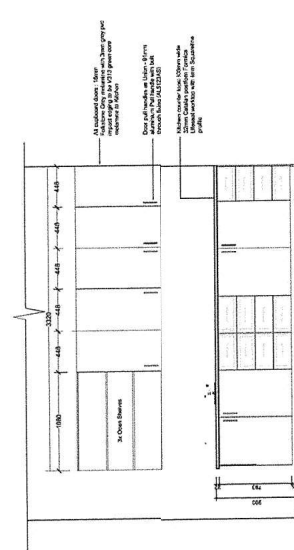
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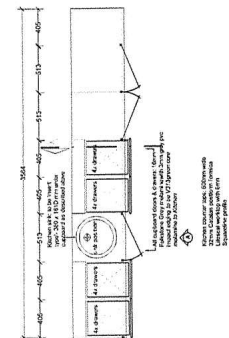
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 ELEVATION A-A scale 1:25



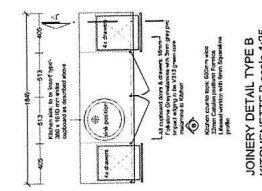
JOINERY DETAIL TYPE B
 ELEVATION B-B scale 1:25



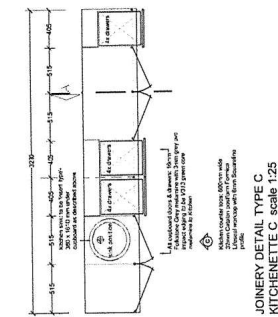
JOINERY DETAIL TYPE C
 ELEVATION C-C scale 1:25



JOINERY DETAIL TYPE A
 KITCHENETTE A scale 1:25



JOINERY DETAIL TYPE B
 KITCHENETTE B scale 1:25



JOINERY DETAIL TYPE C
 KITCHENETTE C scale 1:25

[illegible]

CONSULTANTS
PRINCIPAL AGENT
Roeleveld Quantity Surveyors quantity services
Roeleveld Quantity Surveyors ARCHITECTS
Ngonoma Okpanum & Associates STRUCTURAL/CIVIL ENGINEERS
ELECTRICAL ENGINEERS

**Ngonyama Okpanum
& Associates**

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**EASTERN CAPE SCHOOL BUILDING
PROGRAMME**



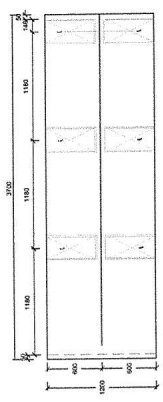
**DEPARTMENT OF
PUBLIC WORKS**

PROJECT
IDT SCHOOL BUILDING
PROGRAMME

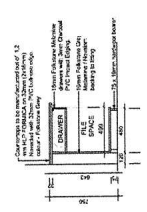
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**NTSONKOTHA SSS
JOINERY B**

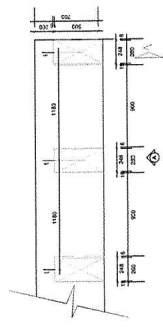
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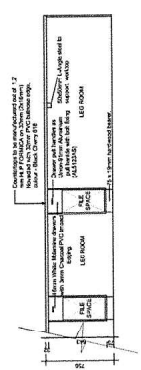
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PLAN 1:25



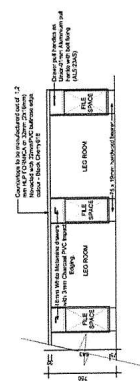
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SECTION A-A 1:25



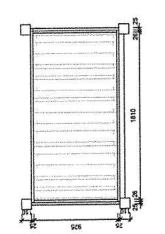
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PLAN 1:25



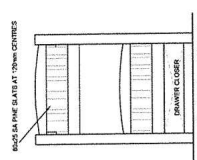
CORNER STUDY DESK DETAIL
ELEVATION B 1:25



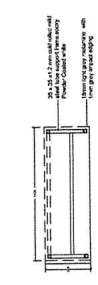
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ELEVATION A 1:25



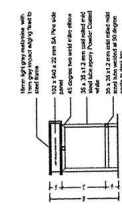
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PLAN 1:25



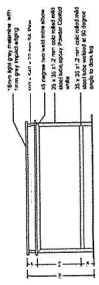
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FRONT ELEVATION



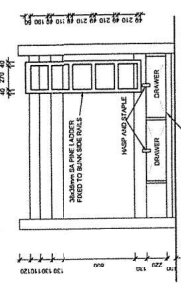
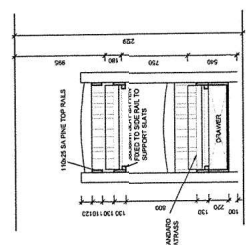
LEARNING DESK
PLAN 1:25



LEARNING DESK
SECTION 1:25



LEARNING DESK
FRONT ELEVATION

DOUBLE BUNK
SIDE ELEVATIONDOUBLE BUNK
SECTION

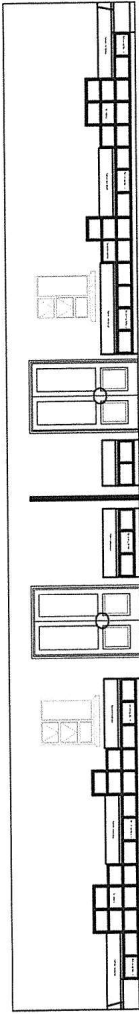
NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE SANS 10400 SERIES.
3. ALL MATERIALS TO BE USED ARE TO BE OF THE HIGHEST QUALITY AVAILABLE.
4. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE SANS 10400 SERIES.
5. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE SANS 10400 SERIES.

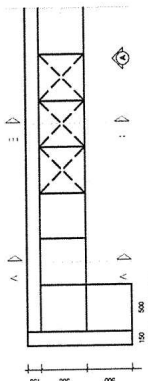
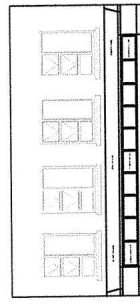
REVISIONS

NO.	DATE	DESCRIPTION

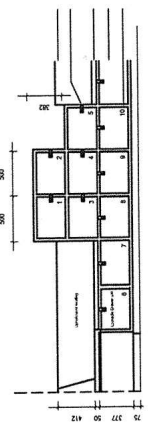
TV LOUNGE
ELEVATION 1:50



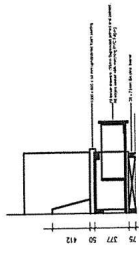
PARENTS LOUNGE
ELEVATION 1:50



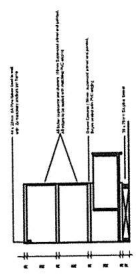
TV LOUNGE STORAGE BENCH
PLAN 1:25



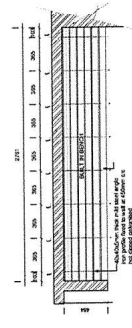
TV LOUNGE STORAGE BENCH
ELEVATION A 1:25



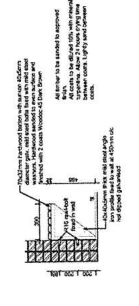
TV LOUNGE STORAGE BENCH
SECTION AA 1:25



TV LOUNGE STORAGE BENCH
SECTION BB 1:25



BUILT IN BENCH
PLAN 1:25



BUILT IN BENCH
SECTIONAL ELEVATION 1:25

CONSULTANTS

PRINCIPAL AGENT
Roselind Quantity Surveyors
QUANTITY SURVEYORS
Roselind Quantity Surveyors
ARCHITECTS
Ngonyama Okpanum & Associates
STRUCTURAL CIVIL ENGINEERS
ELECTRICAL ENGINEERS

Ngonyama Okpanum & Associates
REGISTERED PROJECT MANAGER/ARCHITECT/STRUCTURAL ENGINEER

NAME	SIGNATURE	DATE	SCALE
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DRAWN			1:25
CHECKED			1:25
APPROVED			1:25

EASTERN CAPE SCHOOL BUILDING
PROGRAMME

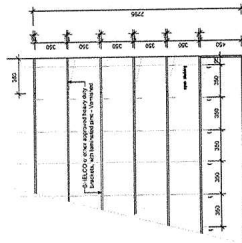


DEPARTMENT OF INDEPENDENT DEVELOPMENT
PUBLIC WORKS CORPORATION

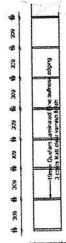
PROJECT
IDT SCHOOL BUILDING
PROGRAMME

DRAWING TITLE
NTSONKOTHA SSS
JOINERY C

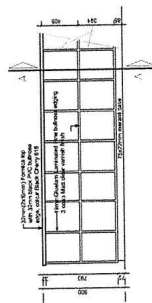
DATE/NO.	REVISION	BY	DATE



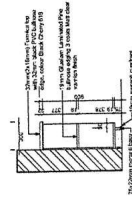
BAG STORAGE
JOINTERY DETAIL A 1:25



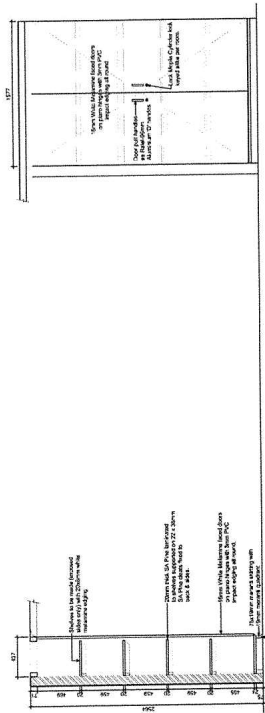
BAG SHELVES PLAN
JOINTERY DETAIL B 1:25



BAG SHELVES ELEVATION A
JOINTERY DETAIL B 1:25

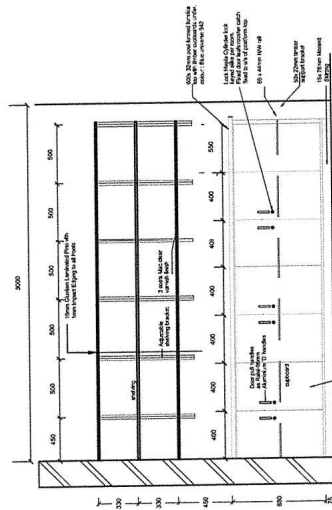


BAG SHELVES SECTION AA
JOINTERY DETAIL B 1:25

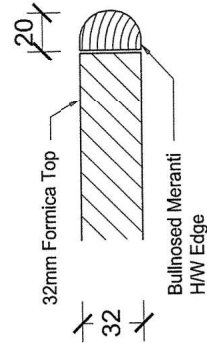


CLEANER STORAGE
SECTION AA 1:25

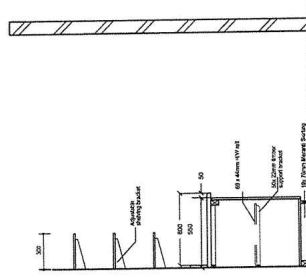
CLEANER STORAGE
FRONT ELEVATION 1:25



STORE ROOM SHELVING
SECTIONAL ELEVATION 1:25



TYPICAL FORMICA DETAIL
SCALE 1:5

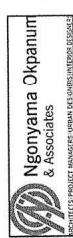


STORE ROOM SHELVING
SECTIONAL ELEVATION 1:25

NOTES
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR
3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE SANS STANDARDS
4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE SANS STANDARDS
5. ALL WORK TO BE DONE IN ACCORDANCE WITH THE SANS STANDARDS
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NO.	DATE	REVISION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

CONSULTANTS
PRINCIPAL AGENT
Rodwell Quantity Surveyors
QUANTITY SURVEYORS
Rodwell Quantity Surveyors
ARCHITECTS
Ngonyama Okpanum & Associates
STRUCTURAL ENGINEERS
ELECTRICAL ENGINEERS



NAME	SIGNATURE	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

EASTERN CAPE SCHOOL BUILDING
PROGRAMME

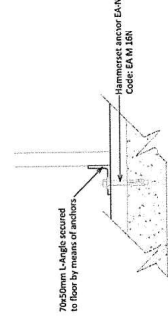
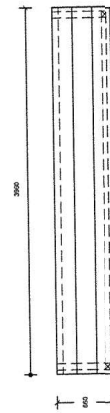
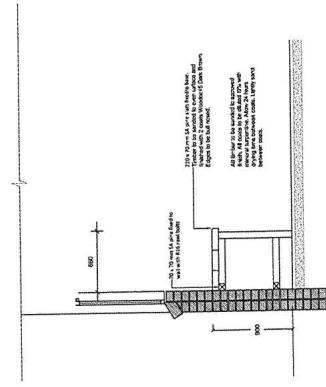
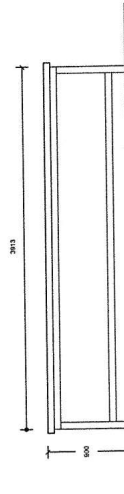
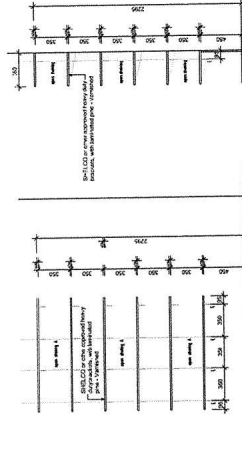
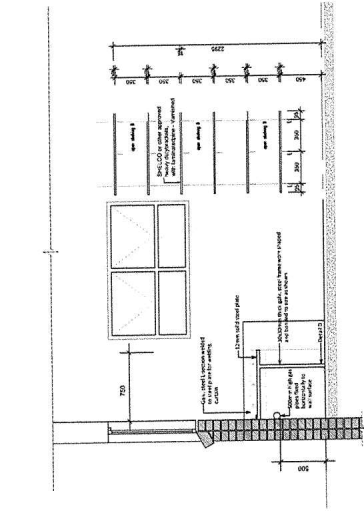
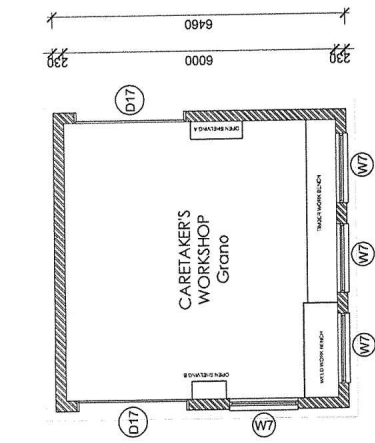


DEPARTMENT OF PUBLIC WORKS
CORPORATION

PROJECT
IDT SCHOOL BUILDING
PROGRAMME

DRAWING TITLE
NTSONKOTHA SSS
JOINTERY D

DATE	REVISION	BY	DATE

[illegible][illegible]

CONSULTANTS
PRINCIPAL AGENT
Reelved Quantity Surveyors
QUANTITY SURVEYORS
Reelved Quantity Surveyors
ARCHITECTS
Ngonyama Ogunbanjo & Associates
STRUCTURAL/CIVIL ENGINEERS
ELECTRICAL ENGINEERS

**Ngonyama Okpanum
& Associates**

SECRET KEY					
	NAME	SIGNATURE	DATE	A1	SECRET
	DONALD	-			
	DAVID	-			
	VINCENT	-			

STATION LEAD
 INFORMATION
 C-CONFIDENTIAL

EASTERN CAPE SCHOOL BUILDING PROGRAMME



DEPARTMENT OF
PUBLIC WORKS

PROJECT

**IDT SCHOOL BUILDING
PROGRAMME**

DRAWING TITLE
NTSONKOTHA SSS
JOINERY F

NAME NUMBER	DISCIPLINE	DRAWING NUMBER	DIVISION
			90 CONTRACTS/106

NTSONKOTHA SSS
INTERNAL FURNITURE SCHEDULE

2 Dec 2021

GENERAL NOTES:

1. The Schedule contains pages 01 to 05 numbered consecutively. The Contractor is required to check that none of the pages are missing or duplicated. If any part of this schedule is indistinct or contains any obvious errors, he must make written application to the Architect to have such errors rectified.
2. Where specific manufacturer's instructions and recommendations contradicts that of the NBR or SABS, then the Architect is to immediately be notified prior to commencement with the affected trade/installation.
3. Any discrepancy or contradiction to immediately be reported to the architect in writing.
4. All dimensions and materials to be checked on site prior to ordering of manufacturing.
5. The Contractor to prepare a sample room for approval of the quality standard of finishes to be achieved.

REVISION No.	DATE	DESCRIPTION

TABLES

FURN1 - Saligna solid wood table tops with steel legs
(TV Lounge)

Size :1400mm x 700mm x 750 high
Top : 1400mm x700 x 21 mm –solid Saligna ,varnished
Steel Frame : 32mm Square Tubing
Powder coated to prevent rust
Durable plugs on all open leg ends



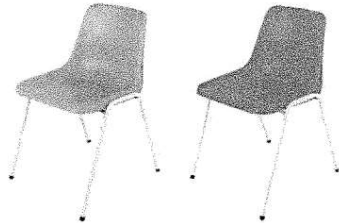
Quantity : x 6 per dormitory

CHAIRS

FURN2 -Secondary Chair Polypropylene Shell chairs.

(TV Lounge)

Seat Height: 450mm high, Steel frame: Stackable, 19mm round tubing, powder coated, durable ferrules on all open leg ends

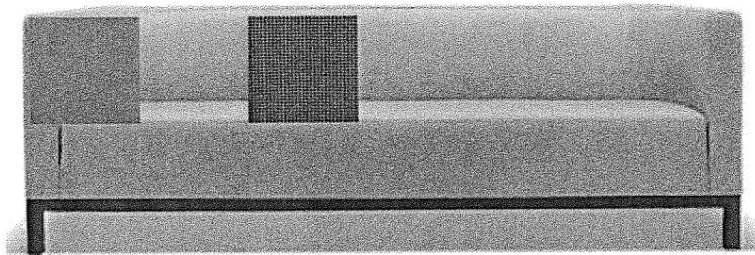


Colour : Orange and Black

Quantity : x 36 chairs per dormitory (18 orange and 18 black)

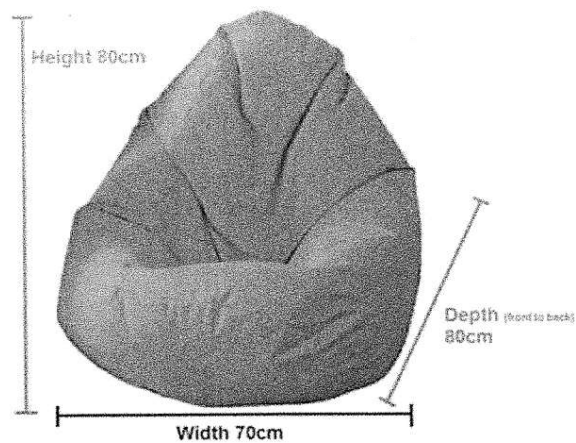
FURN 3- Ryan double seater couch

(TV LOUNGE)



- Fully upholstered Cedar brook fabric: Contract basics
- **Colour:** Vibe Jaffa, Cube black, Strawberry
- **Quantity :** x 6 couches per dormitory (x2 Vibe Jaffa, x2 Cube black, x2 red)
- **Supplier:** Insight Furniture

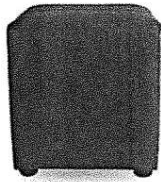
FURN 4-Tear drop Bean Bags.
(TV LOUNGE)



Colour : orange, black, red

Quantity : x 50 per dormitory (x 15 orange, x 20 black, x 15 red)

FURN 5- 450 x 450mm Ottomans
(TV LOUNGE)



Upholstery : PVC or Cedar brook fabric to match the couches

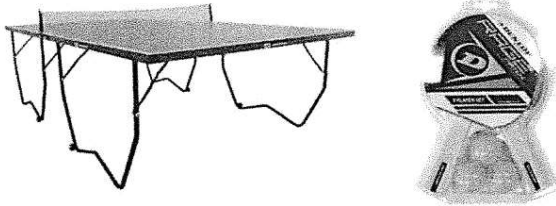
Colour : black

Quantity : x 12 per dormitory

Recommended Suppliers : Carnaby Couches ,Insight

ENTERTAINMENT

FURN 6- Table Tennis Table (TV LOUNGE)



2740mm x 1525mm x 760mm Headstart Lite Indoor Table Tennis Table

- 12mm Top
- Frame: 15mm x 30mm steel
- Includes net
- Wheels for easy storage
- **Quantity : x 2 per dormitory**

Accessories

- Dunlop Rage Match 2 Player Table Tennis Bat & Ball Set **(x 4 per dormitory)**

FURN 7- Wooden Pool Table (TV LOUNGE)



- Includes a set of balls
- Mahogany finish with metal corner plates
- Wood bed
- Ball return feature
- Dimensions: 2150mm (L) x 1220mm (W) x 775mm (H)
- **Quantity : x 2 per dormitory**

Accessories

- One piece 1450 mm Ramin pool cue **(x 4 per dormitory)**

CURTAIN TYPE	C1
NO. REQ.	(x2 curtains per window)
DESCRIPTION	Boys Double Storey Hostel _Dormitories
Fabric	1.43 m De Gama textiles, Loft, CC383,XC0330/14
Colour	Turquoise ethnic print
Cutting length	1m
Curtain Width	1.745 m
Fabric per window	1.745 x 2.5 = 3.6m
Total fabric required	
NOTE	When determining cost the curtain lining , curtain rail & labour cost for the sewing of the curtains are to be included

Addendum J

ADDENDUM J

IDT Addendum to the JBCC



ADDENDUM

To the

THE JBCC PRINCIPAL BUILDING AGREEMENT

NAME OF PROJECT: _____

