

Province of the
EASTERN CAPE
HEALTH

CONTRACT No. SCMU3-17/18-0337-HO

FOR

**CLUSTER 1
CANZIBE HOSPITAL PHASE 2: UPGRADING OF
STAFF ACCOMMODATION**

FOR THE DEPARTMENT OF HEALTH

CONSISTING OF THE FOLLOWING:

**VOLUME 1 – THE TENDER
VOLUME 2 – THE CONTRACT**

FEBRUARY 2018

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NAME OF TENDERER:

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PART 1: SCOPE OF WORK

SCOPE OF WORKS – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (March 2005 Edition)

Project title:	CANZIBE HOSPITAL PHASE 2: UPGRADING OF STAFF ACCOMMODATION
Tender No:	SCMU3-17/18-0337-HO

C3.1 Scope of Works

Scope of Work

The works will consist of the following major items:

Renovations and additions to four (4) Existing Staff Houses (GBA 195m² per house – Total 780m²):

- All existing screeds and floor coverings replaced with new screed and porcelain tiles
- Replace existing sheet metal roof coverings
- Replace existing rainwater gutters and downpipes
- Replace existing fascia and barge boards
- Replace existing timber doors and ironmongery
- Replace existing ceilings and cornices with new nailed up ceilings and cornices
- Replace all existing sanitary fittings with new and replaced damaged pipework where required
- Install additional sanitary fittings and pipework
- Install new cupboards, worktops and counters
- Replace internal and external plaster where required, in patching
- Paint all internal & external walls, doors, door frames, existing windows and ceilings
- Install new aprons

New two bedroom houses (5 units – GBA 128m² per unit - Total 640m²) consisting of:

- Reinforced concrete raft foundations
- Brick internal and external walls – mainly plastered
- Timber roof structure
- Sheet metal roof covering, fascia and barge boards, aluminium gutters and downpipes
- Sanitary fittings
- Joinery fittings

New single storey seven bedroom block (1 unit – GBA 320m²) consisting of:

- Reinforced concrete raft foundations
- Brick internal and external walls – mainly facebrick externally
- Timber roof structure
- Sheet metal roof covering, fascia and barge boards, aluminium gutters and downpipes
- Sanitary fittings
- Joinery fittings

New double storey fourteen bedroom block (2 units – GBA 680m² per unit – Total 1360m²) consisting of:

- Reinforced concrete strip footings and loadbearing brickwork
- Brick internal and external walls – mainly facebrick externally
- Timber roof structure
- Sheet metal roof covering, fascia and barge boards, aluminium gutters and downpipes
- Sanitary fittings
- Joinery fittings

External Works

- New paved access road and parking
- New storm water channels
- New water reticulation and supply to new buildings
- New sewer reticulation and connection to new buildings
- New elevated 40kl water tank
- New Medium security fencing to new accommodation units
- New Guard House (17m²)

Electrical Installation 5EB or higher:

1. Building work

- Excavate trench for cables and lay sleeves, including backfilling & compacting.
- Sleeve ends to be closed with sealing kits.
- Building of manholes for electrical and Telkom installation, as specified on the drawings
- Cast concrete plinth for new Distribution Kiosks.

2. Electrical Work

- Stripping of lights and socket outlets in existing houses and 2 bed units.
- Stripping of area lighting where necessary.
- Provide temporary power supply points for construction works.
- Supply and installation of cables, cable sleeves, cable route markers, as per drawing number CAR17E/1724/CZ/100E, Electrical Reticulation Layout.
- Supply and install new Main LV Board, Kiosks, Sub-Main and Unit/House Distribution Boards. Electrical contractor to request shop drawings from DB manufacturer, which are to be approved by the engineer before orders are placed.
- Supply and install light fittings of the correct type, as specified in the schedule of light fittings, Item 26, Part II of the specification. All light fittings and quantities are to be approved by the engineer before orders are placed.
- Supply and install socket outlets & isolators (geyser, AC and Stove), as per drawings.
- Supply and install TV satellite dish on all buildings, with TV socket outlets in lounge and bedrooms.
- Installation of lightning protection to SANS10313 for all buildings. Risk analysis report and drawings to be approved by Engineer in advance.

- Generate as-built drawings including updating single line diagrams, as per changes during construction phase.
- Label all wiring and cabling with Grafoplast Trasp PVC markers.
- Supply and install Post Top area lighting as per drawing number CAR17E/1724/CZ/101E, Area Lighting Layout.
- Provide Certificate of Compliance for all distribution boards and entire installation.

Methodology of Project Execution

- **Project Review**
The work is to be executed in an existing hospital, which shall remain fully functional 24 hours per day and 7 days a week. Access to the hospital must not be compromised at all.
- **Restrictions and Constraints**
- The completion of the project is urgent and work shall be executed during normal working hours i.e. 7h00 till 17h00 daily including weekends. Work required to be executed outside of these hours must be arranged with the Facilities Manager and the Chief Executive of the hospital, in advance.
- Noise must be kept to a minimum and within acceptable levels at all times. It is possible that the hospital could impose restricted times for demolition due to the close proximity of the site to existing accommodation.
- All shut-offs and tie/cut-ins to existing services must be arranged in advance with the Facilities Manager and a methodology with appropriate mitigation of risks must be prepared by the contractor and submitted to the relevant Professional discipline in advance, for approval.
- Dust emanating from the work site must be controlled.
- **Operational Protocols**
- Security is a priority and the site shall be kept safe at all times.
- The approved Health and Safety plan shall be adhered to at all times
- All staff members of the contractor shall wear PPE at all times
- All staff members of the contractor shall be specifically identifiable at all times and to this end shall wear a predetermined colored overall to be able to enter and work on the site.
- Regular meetings, the frequency of which is to be determined, shall be held with the management of the hospital to ensure a cohesive spirit of co-operation at all times

The successful contractor must take into account that other contractors may be busy with construction in close proximity to the works and allowance must be made in the contractors submission to accommodate these parties.

Table 1 : Methodology and Order of Works – Canzibe Hospital Accommodation – Phase 2

Phase 2		
Proposed Phasing:	Description of Phase:	Works to be completed:
Phase 2A	Construction of Housing Units and Associated Works to the South of temporary walkway	2x Double Storey Bachelor Units
		1x Single Storey Bachelor Unit
		2x Single Storey 2 Bedroom Units
		Guardhouse
		Entrance
		Earthworks, services, roads, parking and walkways
Phase 2B	Construction of Housing Units and Associated Works to the North of temporary walkway as well as Renovation of Existing Accommodation	3x Single Storey 2 Bedroom Units
		Earthworks, services, roads, parking and walkways
		Renovation of 4x Existing Doctor's Houses
		Demolish dilapidated housing units
<i>Notes: During Phase 2A, temporary access to the 4x existing Dr's Houses should be provided around the Hospital from the Western side.</i>		
<i>Phase 2A and B construction of new housing units can run concurrently but the contractors work area will be split into 2 sections by the temporary walkway.</i>		

Table 2 : Decanting Plan – Canzibe Hospital Accommodation – Phase 2		
Proposed Phasing:	Description of Phase:	Decanting:
Phase 2A	Construction of Housing Units and Associated Works to the South of temporary walkway	During the construction of the Housing Units and Associated Works in Phase 2A, no decanting is required
Phase 2B	Construction of Housing Units and Associated Works to the North of temporary walkway as well as Renovation of Existing Accommodation	Upon completion of Phase 2A, occupants of the 4x existing Dr's Houses can be decanted into the newly constructed housing units. The 4x Dr's houses can now be renovated

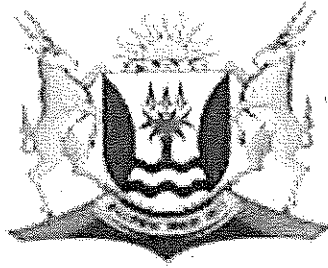
Access

Prospective bidders are to fully familiarize themselves with the site and access to the site.

ACCEPTANCE OF TENDERS

The Employer is not bound to accept the lowest, or any tender, or any portion of any tender.

GENERIC HEALTH AND SAFETY SPECIFICATION



HEALTH AND SAFETY SPECIFICATION

Project title:	INFRASTRUCTURE UPGRADE AND MAINTENANCE AT EASTERN CAPE DEPARTMENT OF HEALTH FACILITIES
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GENERIC HEALTH AND SAFETY SPECIFICATION

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HEALTH AND SAFETY SPECIFICATION

1. INTRODUCTION AND BACKGROUND

- 1.1. The Construction Regulations No. 3705 of 7th February 2014 requires the Client to prepare a pre-construction Health and Safety Specification, with all existing risks identified.
- 1.2. The Eastern Cape Department of Health (ECDoH) is tasked to provide Healthcare operational facilities across the Eastern Cape.
- 1.3. The ECDoH has a responsibility to limit its risk by ensuring a zero tolerance and best practice approach to Contractors and those affiliated to a construction project. Thus, a high premium is placed on the health and safety (H&S) of ECDoH stakeholders, which include its employees, professional service providers, public and its physical assets.
- 1.4. The responsibilities that the Department and relevant stakeholders have toward its employees are captured in, but not limited to this document. The responsibilities stem from both moral, civil and a variety of legal obligations.
- 1.5. The Principal Contractor is to take due cognisance of the above statement.
- 1.6. The ECDoH, as the Client and where there is an appointed H&S Agent on its behalf, shall provide Health & Safety Specification (HSS) for the project and provide the Principal Contractor/s making a bid or appointed to perform construction work for the project, or parts thereof such documentation to prepare project specific health and safety plan.
- 1.7. This Health and Safety Specification complies with the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations of February 2014.
- 1.8. This Health and Safety Specification is to be used as a Management tool to comply with the Occupational Health and Safety Act.
- 1.9. This Specification has been prepared by the Eastern Cape Department of Health.

2. KEY ROLE PLAYERS

- 2.1.1. Eastern Cape Department of Health (Client)
- 2.1.2. Principal Agent
- 2.1.3. Architect
- 2.1.4. Quantity Surveyor
- 2.1.5. Structural Engineer
- 2.1.6. Civil Engineer
- 2.1.7. Electrical Engineer
- 2.1.8. Mechanical Engineer
- 2.1.9. Clerk of Works
- 2.1.10. Health & Safety Agent
- 2.1.11. Principal Contractor
- 2.1.12. Other

3. LIST OF ABBREVIATIONS

AAIA	Approved Asbestos Inspection Authority
AIA	Approved Inspection Authority
BoQ	Bill of Quantities
CC	Compensation Commissioner
CR	Construction Regulations
DMR	Driven Machinery Regulations
DoL	Department of Labour
FEMA	Federated Employers Mutual Association
GAR	General Administration Regulations
GSR	General Safety Regulations
HCSR	Hazardous Chemical Substances Regulations
HIRA	Hazard Identification Risk Assessment
H&S	Health and Safety
ER	Engineer's Representative
LI	Labour Intensive
OH	Occupational Health
OHSA	Occupational Health and Safety Act No. 85 of 1993 (as amended)
OHSS	Occupational Health and Safety Specification
PSHSS	Project Specific Health and Safety Specification
PC	Principal Contractor
PPE	Personal Protective Equipment
SANS	South African National Standards (Authority)
SDS	Safety Data Sheet
SMME	Small, Micro, Medium Enterprise
SWP	Safe Work Procedure

4. DEFINITIONS

4.1. The definitions used will be those set out in the Regulation Gazette N0 3705 of 7th February 2014 with the following additions:

4.1.1. **Client:**

The Superintendent General, Eastern Cape Department of Health.

4.1.2. **Designer:**

Means a competent person appointed by the Client as Agent to design, supervise and monitor construction on their behalf.

4.1.3. Hazard:

Source of exposure to danger

4.1.4. Hazard Identification and Risk Assessment (HIRA) and Risk Control:

Means a documented plan, which identifies hazards, assesses the risks and details the control measures and safe working procedures which are to be used to mitigate and control the occurrence of hazards and risks during construction or operation phases.

4.1.5. Health and Safety Agent:

Means any person who acts as a representative for the Client in managing the overall health and safety work as their responsible person.

4.1.6. Health and Safety Plan:

Means a documented plan which answers to the Project Specific Health and Safety Specification; including all the supporting documentation that indicate how the Principal Contractor or Contractor plans to manage H&S for the duration of the Contract.

4.1.7. Induction Training:

Means once off introductory training on general health and safety issues given to all employees and visitors to the site before commencement of work on site.

4.1.8. Risk:

Means the probability or likelihood that a hazard can result in injury or damage.

4.1.9. Regulation/s:

Shall mean the relevant regulation/s promulgated in terms of the Occupational Health and Safety Act, No. 85 of 1993 and the Construction Regulations No. 3705 of 7th February 2014.

4.1.10. Site:

Means the area in the possession of the Principal Contractor for the construction of the works. Where there is no demarcated boundary it will include all adjacent areas, which are reasonably required for the activities for the Principal Contractor, and approved for such use by the Designer.

4.1.11. The Act:

Means, unless the context indicates otherwise, the Occupational Health and Safety Act, No. 85 of 1993 and Regulations promulgated thereunder, as amended.

5. KEY REFERENCES

5.1 Occupational Health and Safety Act No. 85 of 1993 and Regulations (as amended).

5.2 Compensation for Injury and Occupational Diseases Act No. 100 of 1993 (as amended)

5.3 Joint Building Conditions of Contract (JBCC)

5.4 South African Roads Traffic Safety Manual (SARTSM) Chapter 2, Volume 13 of 1999

5.5 Road Traffic Safety Act No. 93 of 1996 (as amended)

5.6 Construction Regulations No. 3705 of 7th February 2014

5.7 Construction Specifications & Standards 6.0 for Southern Africa. Hans Wegelin 6th Edition 2010

5.8 SANS Code 10400 and others that are applicable

6. **PURPOSE OF THE HEALTH AND SAFETY SPECIFICATION (HSS)**

6.1. The HSS is a performance specification to ensure that the Client and any bodies that enter into formal agreements with the Client Viz. Agents, Professional Service Consultants (Engineers, Quantity Surveyors and Architects), Principal Contractors and Sub-Contractors achieve an acceptable level of OHS performance.

6.2. To assist in achieving compliances with the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations of February 2014, to, as far as is practical, reduce or eliminate incidents or injuries.

6.3. No advice, approval of any document required by the HSS, such as hazard identification and risk assessments, or any other form of communication from the Client shall be construed as acceptance by the Client of any obligation that absolves the Principal Contractor from achieving the required level of performance and compliance with legal requirements.

6.4. Furthermore, there is no acceptance of liability by the Client, which may result from the Principal Contractor failing to comply with the HSS, i.e. the Principal Contractor remains responsible for achieving the required performance levels.

6.5. A Mandatory Agreement in terms of Section 37.2 of the OHSA will be signed between parties prior to any works commencing.

6.6. The HSS highlights the aspects to be implemented over and above the minimum requirements of current legislation.

6.7. Requirements may be changed should new risks or issues are identified that could not have been foreseen during the design phase of the project, or during the construction phase. Any new legislation or standards (legislated, or determined by the ECDoH) that are promulgated or accepted during the contract will automatically be applied.

6.8. Environmental management shall receive due attention as per the requirements of the Environmental Control Officer (ECO), but will be managed by the ECO directly.

6.9. The Contractor shall use this Specification as a basis for the drafting of his and any Subcontractors' Construction Health and Safety Plans.

6.10. The Specification sets out the requirements to be followed by all Contractors so that the Health and Safety of all persons who may be affected by the Construction Project will receive proper priority.

6.11. The Project Specific Risks that have been identified have been tabulated in Section 18 of this Specification.

7. IMPLEMENTATION OF THE PROJECT SPECIFIC OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS (PSHSS)

7.1. The H&S specification (HSS) forms an integral part of the Contract, and PCs are required to make it an integral part of their Contracts with Contractors and Suppliers.

7.2. A HSS will be available for each level of Contract and Contractor, and must be complied with.

7.3. This specification must be read in conjunction with the OHSA, Regulations thereto (as amended) and any other standards relating to work being done, and ensure compliance thereto.

7.4. The information relative to the scope of the project, the works etc. are detailed in the tender, are to be considered when developing the H&S plan and associated documentation.

7.5. The summary of risks is included in Section 18 of the HSS.

7.6. The OHSA S.37.2 Mandatory Agreement must be fully completed by the PC, supplied by the Client.

7.7. No work may commence without written approval of the H&S plan by the H&S Agent, or the responsible person in the ECDoH.

7.8. Should there be design changes, or change in the scope of works, an amended PSHSS may be issued.

7.8.1. Where amended HSSs are issued, the PC will be required to ensure a resubmission of an amended H&S plan for approval.

7.8.2. Further to this, the PC must ensure that similar information must be provided as it applies to the works to all their Contractors, within 5 working days following notification thereof of such design changes.

7.9. The H&S Agent will visit the project as deemed necessary by the Employer to ensure compliance and limit risk.

7.9.1. All activities on the site and all appropriate documentation will be monitored and reported on to the Client and the Designer.

- 7.10. Non-conformances will be issued and penalties or work stoppage will be issued where appropriate. Communication between the H&S Agent and the PC will be through the Principal Agent (or Client's responsible person) as determined at the commencement of the project.
- 7.11. The Principal Contractor must forward a copy of the Health and Safety plan to all Subcontractors to enable them to prepare their own Health and Safety plans.
- 7.12. Non-conformances will be issued and penalties or work stoppage will be issued where appropriate.
- 7.13. Communication between the H&S Agent and the PC will be through the Designer (or Client's responsible person) as determined at the commencement of the project.

8. APPLICATION

- 8.1. This Specification is a compliance document drawn up in terms of the Occupational Health and Safety Act No. 85 of 1993, and the Construction Regulations of February 2014, and is therefore binding on the Contractor as well as the Owner.
- 8.2. All Contractors are to comply with the conditions of this Health and safety Specification.
- 8.3. All Direct Contractors carrying out work on behalf of the Eastern Cape Department of Health, at the ECDOH Facility are also required to comply with the conditions of this Health and Safety Specification.
- 8.4. All staff and representatives of the Eastern Cape Department of Health, who visit the site at ECDOH Facility are required to comply with the conditions of this Health and Safety Specification.
- 8.5. All representatives of the Implementing Agent who visit the site are required to comply with the conditions of this Health and safety Specification.
- 8.6. All members of the Consulting Team who visit the site are required to comply with the conditions of this Health and safety Specification.

9. REQUIREMENTS AT TENDER STAGE

- 9.1 Adequate pricing for H&S is required, and the appropriate section in the BoQ is to be completed.
 - 9.1.1. Failure to do so could result in the Tender being regarded as non-responsive.

10. GENERAL REQUIREMENTS

10.1. Summary of Risks identified during Design

10.1.1. The intention of the summary of findings from the design risk assessment is to highlight the residual risks identified during the design phase.

10.1.2. The full design risk assessment can be found in the tender document.

10.1.3. The summary of risks provided is to point the contractor towards some risks he may not be aware of during tendering stage and while developing his formal risk assessments for the project.

10.1.4. The design risks and the management thereof should be included in the Principal Contractors (PC) risk assessments.

10.1.5. Where there are other Contractors appointed to do work, the PC is to ensure that Contractors include such information in their risk assessments.

10.1.6. The summary is to be developed following the completion of the Design risk assessment, and to include the residual risks as they apply to the project.

10.2. Hazard Identification and Risk Assessment (HIRA)

10.2.1. At the Pre-Tender Site Inspection, the Principal Agent will identify any Project Specific hazards or risks that may affect the work.

10.2.2. These hazards or risks are listed under section 18 of this Specification.

10.2.3. Tenderers are also advised to notify the Principal Agent of any other risks or hazards that have not previously been identified.

10.2.4. These risks are to be recorded and a recommended procedure for addressing each item agreed on and recorded.

10.2.5. The Principal Contractor is to conduct inspections of all tools and equipment before the commencement of the works and at least once a week during the works.

10.2.6. The Principal Contractor shall ensure that all Sub-Contractors and workers are informed, instructed and trained by a competent person regarding any hazards, risks and related safe work procedures as part of the Induction process before any work commences and thereafter at regular intervals as the risks change and as new risks develop.

10.2.7. Proof of this training must be kept for inspection by the Client or Client's Representative.

10.2.8. The Principal Contractor shall be responsible for ensuring that all persons who could be negatively affected by the operations are informed and trained according to the hazards and risks and are conversant with the safe working procedures, control measures and other related rules (tool box talk strategy to be implemented).

10.2.9. The format used for the risk assessment must make provision for the following information;

10.2.9.1. Reference Number

10.2.9.2. Project Name

10.2.9.3. Identification of task assessed

10.2.9.4. Date

10.2.9.5. Risk assessment team & designation

10.2.9.6. Approval of risk assessment team.

10.2.9.7. Risk rating with matrix

10.2.9.8. Review date

10.2.9.9. Task steps

10.2.9.10. What can go wrong (Hazard)

10.2.9.11. The result (Risk)

10.2.9.12. Risk rating

10.2.9.13. Preventative Action (Control Measures)

10.2.10. The Principal Contractor is to ensure that all Staff members and Management personnel that will be affected by the works are fully informed of the risks and hazards associated with the works.

10.3. Specified Hazardous Chemical Substances

10.3.1. The following lists of products or substances are those which have been identified as likely to be used on the project. The list is not inclusive and other products may be considered.

10.3.2. Where the PC is likely to supply the product as the product has not been specified, safety data sheets (SDSs) need to be considered prior to all selections.

PRODUCTS/SUBSTANCES/RISKS	POTENTIAL HEALTH OR OTHER RISKS
Cement	<ul style="list-style-type: none"> • Hand mixing may occur, 50kg bags are an ergonomic risk from handling. • Pumping of concrete may occur exposure to extensive vibration, extended hours of work, and potential eye, skin and respiratory irritant from dust exposure, chromates.
Cement/Silica dust	Caused by cutting, grinding, sanding of any concrete/granite/tiled surface/masonry.
Petrol/diesel/lubricants	Potentially a fuel bowser on site. Fire, spillage, fumes
Wood dusts	Caused by cutting, sanding, drilling wooden products treated
Oxy-acetylene Gas	Use of these gas bottles when using cutting torch and welding in confined spaces may cause lead to lack of oxygen and workers inhale gas fumes. Inhalation of these fumes in a confined space may lead to severe headaches, collapse, and/or fatality

PRODUCTS/SUBSTANCES/RISKS	POTENTIAL HEALTH OR OTHER RISKS
Use of Paints/solvents/epoxy	Hazardous fumes caused by use of these products in confined spaces such as inside water tanks may lead to sever headaches, collapse, and/or fatality.

10.3.3. Hazardous and potential situations

- 10.3.3.1. The Principal Contractor shall immediately notify other Sub Contractors as well as the Client of any hazardous or potentially hazardous situations that may arise during performance of construction activities.

11. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

11.1. Scope

- 11.1.1. The Specification covers the requirements for eliminating and mitigating incidents and injuries at the ECDOH Facility.
- 11.1.2. The scope addresses legal compliance, hazard identification, risk assessment, risk control, and promoting a Health and Safety culture on the project.
- 11.1.3. The Specification also provides for the protection of those persons other than employees.

11.2. Scope of Works

Refer to tender documentation.

11.3. Structure and Organization of H&S Responsibilities

11.3.1. Notification of Construction Work Permit

Depending on the estimated value of the contract, once appointed the Principal Contractor must apply for either Construction work permit or submit Notification of construction as Prescribed in Construction Regulation 3 & 4 to the relevant Regional and/or Provincial Department of Labour Office. Proof of receipt and acknowledgement from DOL should be kept on the Safety File at all times.

11.4. Health and Safety Plan Framework

- 11.4.1. The H&S aspects related to the project outlined in the previous sections are to be considered when drawing up the H&S Plan.
- 11.4.2. The PC is required to demonstrate competence by providing an H&S system that will address the requirements of the project.

11.4.3. The current legislative requirements, SANS codes and any other standards that may guide practice are to be taken into consideration.

11.4.3.1. The following aspects must be addressed in the H&S Plan, as they have been identified in section 2, as playing a role in reducing the overall risk of an activity, or section of the project.

11.4.3.2. The H&S Agent may from time to time request additions or systems as they relate to the works or legislative requirements at the time.

11.4.4. The PC is to prepare a site layout drawing to indicate at least the following:

11.4.4.1. The positions of site offices of all Contractors, toilets, drinking water and Worker rest areas;

11.4.4.2. Indicate the positions of emergency personnel and equipment (fire, first aiders, first aid posts);

11.4.4.3. Protection of plant and pedestrians, indicate parking, and

11.4.4.4. Storage areas (materials and equipment, waste etc.)

11.4.4.5. Access and egress to site for deliveries and intended temporary traffic management

11.4.4.6. Emergency assembly point

11.4.5. Such layouts are to be updated regularly throughout the project.

11.5. Appointment of Competent Site Personnel

11.5.1. The CEO (OHSA S16.1) of the PC will take overall responsibility for the appointment of competent site staff for the duration of the project. Should the CEO not be personally involved in the project, the H&S responsibilities are to be delegated to the Site Agent (OHSA 16.2). Knowledge and training in H&S is required, and certificates indicating H&S training as well as experience to be included in CVs.

11.5.2. All other legal appointments are to be made with relevance to the type of work required and kept current with the project programme. The construction team is to ensure the appointed H&S Officer is kept up to date with all planned activities, to ensure all H&S requirements are met.

11.5.3. All construction/technical method statements are to be generated by senior site personnel, and the appropriate risk assessments developed therefrom in conjunction with the H&S Officer.

11.5.4. The Occupational Health and Safety Plan shall include the following, but is not limited to the following key appointments:

11.6. Construction Manager

11.6.1. Competent manager & supervisors will be appointed to manage part or all the works and have training and/or experience in the area of responsibility. All site supervisors must show evidence of appropriate training in H&S, and an understanding or training in areas of responsibility (i.e. risk assessments, method statements etc.).

11.6.2. Construction Manager is to be full time on site, for this single site.

11.6.3. Curriculum Vitae (CVs) are to be submitted for approval the client or its appointed representatives.

11.6.4. The Construction Manager will be held responsible for the safety of working teams and subordinates, housekeeping and stacking and storage of materials.

11.7. Construction Health and Safety Officer

11.7.1. The PC will employ at least one competent, full-time H&S Officer for the duration of the contract.

11.7.2. The H&S Officer's CV is to be submitted for approval to the H&S Agent or the Client.

11.7.3. The PC is to ensure adequate resources are provided to undertake all responsibilities (i.e. mobile phone, computer and internet access, vehicle etc.)

11.7.4. Qualifications shall include at least Grade 12; SAQA approved training in Occupational Health and Safety, with exposure to civil engineering and building that is appropriate, but at least of one year's duration given the level of project complexity preferably in an OHS capacity.

11.7.5. The health and safety officer must provide proof of registration with the SACPCMP.

11.7.6. He should also have undergone training in the Act and Regulations.

11.7.7. In the case of a contract where contractors are employed, the H&S officer must have a competence to evaluate the Contractors Health and Safety plans.

11.7.8. A valid driver's license.

11.7.9. This person may not hold any other position on the site staff.

11.7.10. The site supervisor may not act as the H&S Officer.

11.7.11. The H&S Officer/s will be held responsible for all H&S on the project.

11.7.11.1. All staff members on site are to follow systems, instructions etc. given by the H&S Officer at all times;

11.7.11.2. No new workers or Sub-Contractors may commence work without approval or following the H&S plan as submitted, and

11.7.11.3. No inductions of Contractor staff until the H&S documentation is approved by the H&S Officer.

11.7.11.4. The H&S Officer/s may not be removed or replaced without the approval of the H&S Agent, nor may the site be left unattended for more than 1 day without adequate, competent cover.

11.7.12. A monthly report of all H&S activities and incidents is required by the end of the first week of each month, or at a date agreed to by the H&S Agent/Client and the H&S Officer.

11.7.12.1. An example of the monthly report is attached as an Annexure C.

11.7.13. The H&S Officer will be responsible for collating the H&S documentation at the close out of the project in electronic format.

11.7.13.1. A list of the typical aspects that should be provided is available as Annexure B to this document.

11.7.13.2. The PC is to ensure that all Contractors documentation follows the same requirements and closed out H&S documentation must be completed and be available with the close out of the main contract.

11.7.13.3. Failure to do so will be considered a serious offence and penalties applied.

11.8. Traffic Safety

11.8.1. The PC is to ensure that the route for Emergency Vehicle is always accessible.

11.8.2. The H&S Officer will be responsible for ensuring that daily traffic management is adequately managed.

11.8.3. No worker may be transported in, or on the rear of construction vehicles (bakkies included), or with plant and materials to, on, or from site.

11.8.4. The number of passengers in any vehicle is limited to what is stated on the license disc.

11.8.5. Vehicles used to transport workers to, from, or on site, shall have secure seats and be covered. No canopies may be used.

11.8.6. Tenderers must indicate in their OHS plans what type of transport is envisaged and how this will be managed.

11.8.7. Where there is an interface between the site and public roads typical traffic accommodation, the PC is to draw up a traffic accommodation plan for approval by the Designer.

11.8.7.1. The standards of the SARTSM Ch. 13 Vol. 2 will be used.

11.8.7.2. Any changes suggested, or required are to be discussed and approved by the Designer.

11.8.7.3. Additional care must be taken where workers and public interface.

11.8.8. Penalties will be issued for non-compliances noted.

11.9. Construction Vehicles

11.9.1. Vehicles shall not enter site with:

11.9.1.1. Defective exhaust systems.

11.9.1.2. Serious oil or fuel leaks.

11.9.1.3. Unsafe bodywork or loads.

11.9.1.4. Non-standard equipment fitted.

11.9.1.5. Improperly seated passengers

11.9.1.6. Any obvious mechanical defects.

11.9.2. All earth moving equipment shall be operated in accordance with good safety practice to protect the safety of the operator and other workers or persons in the area.

11.9.3. All earth moving equipment shall be equipped with a reverse siren and shall be inspected by the operator daily.

11.9.4. No person shall be permitted to ride on any construction vehicle or mobile plant otherwise than in a safe place thereon provided for that purpose.

11.10. Health and Safety Representatives and H&S meetings

11.10.1. H&S Representatives are to be full time employees of the Contractor or on the project.

11.10.2. H&S Representatives representing workers and Contractors are to be appointed following the start-up of the project, irrespective of the number of workers on site.

11.10.3. The appointed H&S Representatives will have the required competency training as a SHE rep.

11.10.4. The appointed H&S Representatives are to be actively involved with H&S and will assist the H&S Officer and site management in meeting legislative duties.

11.10.5. The H&S Officer shall further ensure that H&S is discussed at all internal production or progress meetings.

11.10.6. Issues arising from the H&S Agent audits are to be discussed, as well as all H&S related issues.

11.10.7. Minutes are to be kept for all H&S interventions and meetings. Failure to do so will be deemed to be a moderate offence.

11.11. Appointment of Competent Contractors

11.11.1. The Principal Contractor is to ensure compliance with the Client's minimum standards and all legislative requirements.

11.11.1.1. All competent persons shall have the knowledge, experience, training, and qualifications specific to the work they have been appointed to supervise, control, and carry out.

11.11.2. The Principal Contractor is responsible to ensure that competent Sub-Contractors are appointed to carry out construction work.

11.11.3. The same H&S standards required of the PC are to be applied to all Sub-Contractors.

11.11.4. An index of all Sub-Contractors and Suppliers is to be on file and kept updated at all times.

11.11.5. Where the ECDoH appoints Direct Contractors, or uses the Maintenance staff to carry out works in the site area, the ECDoH is to ensure that the appropriate competent persons are responsible for supervising & controlling the work being undertaken.

11.11.6. The PC is to ensure there is sufficient funding for H&S compliance by each Contractor.

11.11.7. The following minimum aspects are applicable to any Contractor appointed:

11.11.8. The H&S Officer is to ensure a Contractor's appointment and approval of H&S documentation at least seven (7) working days prior to commencing work.

11.11.9. No Contractor may work under the PC's Compensation registration number.

11.11.9.1. If required the PC may assist SMMEs with their registration with the Compensation Commissioner.

11.11.9.2. However, such Contractors will not be able to commence work until proof of registration or Letter of Good Standing has been received.

11.11.9.3. No work may commence without Mandatory agreements between parties in place.

11.11.10. The following aspects are applicable to Suppliers or short-term works (surveying, repairs, servicing, deliveries etc.).

11.11.11. Cognisance is to be taken of the level of risk involved and the H&S Officer is to ensure the level of H&S documentation is appropriate:

11.11.11.1. Mandatory agreements in place

11.11.11.2. Letter of Good Standing

11.11.11.3. Method statements and risk assessments

11.11.11.4. Available information relative to:

11.11.11.4.1. Load testing and registers for cranes or lifting devices

11.11.11.4.2. Medical certificates of fitness

11.11.11.4.3. Safety data sheets (SDSs)

11.11.12. Failure to provide written approval of H&S documentation will be considered a serious offense, and could result in aspects of, or all the activities being stopped, and penalties implemented.

12. GENERAL RISK MANAGEMENT

12.1. Health Risks and Medical Surveillance

12.1.1. The appropriate SDSs are to be obtained for all products and used to develop the H&S documentation as they relate to the works. Many of the processes may be labour intensive and ergonomic risks are to be noted. All workers (including Sub-Contractors) are to be included in the medical surveillance programme.

12.1.2. Workers will be exposed to noise, dust, and physical risks from extended periods of work of a repetitive nature, materials specified and the general nature of the works.

12.1.3. All permanent workers (including those of Sub-Contractors) are required to be in possession of a medical certificate of fitness issued by an OMP (Occupational Medical Practitioner) prior to commencing work.

12.1.4. Medical surveillance will commence at pre-employment.

12.1.4.1. All workers (including Sub-Contractors) are required to be in possession of a medical certificate of fitness issued by an OMP (Occupational Medical Practitioner) prior to commencing work.

- 12.1.4.2. Annual medical surveillance is required (unless identified as being required more frequently), as well as an exit medical.
- 12.1.4.3. Arrangements for keeping medical records for the required time are to be noted.
- 12.1.4.4. It is preferable that the PC has a medical surveillance plan.
- 12.1.4.5. Full medical records are not to be placed in the H&S file.
- 12.1.4.6. A procedure for managing the medical records which require safekeeping for prescribed periods are to be addressed.
- 12.1.5. Given the potential health risks the following aspects are to be included in each medical surveillance intervention:
 - 12.1.5.1. Full medical, surgical and occupational history;
 - 12.1.5.2. Full physical examination of all systems; and
 - 12.1.5.3. Referral if required for the management of identified health issues that may affect the worker.
- 12.1.6. Specific testing for existing conditions and limitations relative to exposure could include, but are not limited to:
 - 12.1.6.1. Audiometry (hearing tests); and
 - 12.1.6.2. Any other tests identified as relevant from chemical or specifically identified risks of exposure
- 12.1.7. Failure to do so will be considered a serious offence.

12.2. General Environmental Conditions

- 12.2.1. Compliance with the Environmental Regulations (as amended), among others is required.
- 12.2.2. Environmental monitoring of ventilation, lighting and dusts may be deemed to be required by the Approved Inspection Authority used to measure the environment.
- 12.2.3. Copies of the relevant reports and actions taken in respect of these are to be placed in the H&S file.
- 12.2.4. Any spillages of substances which could be toxic to persons must be dealt with adequately. The Contractor must include his spillage removal system in the OHS Plan.

12.3. Noise Risks

- 12.3.1. All plant from plant hire companies (suppliers) or that of the PC is to be compliant with the Noise Induced Hearing Loss Regulations.

12.3.2. Plant identified that has not been tested and marked for noise emissions will result in having to be tested at the Contractors or PCs expense.

12.3.2.1. Failure to do so within a reasonable time will result in such plant being removed from site.

12.3.3. Audiometric testing of all workers is noted as required in the medical surveillance programme for all permanent workers prior to work commencing.

12.3.3.1. Temporary labour working in identified noise areas will require testing if the noise levels are indicated on plant or through processes as greater than 85dB.

12.3.3.2. Audiometry records are to be available in the H&S file.

12.3.4. Suitable SANS approved hearing protective equipment shall be issued and worn where noise levels are identified as equal to or greater than 85 db.

12.3.4.1. Failure to do so will be considered a serious offence.

12.4. Emergency Procedures

12.4.1. The Principal Contractor must prepare a detailed emergency procedure manual for approval by the Client / Principal Agent prior to commencement of work on the site.

12.4.1.1. It is advised that the system should be simple and easy for any worker to follow.

12.4.1.2. The plan may be adapted should new information or risks are identified.

12.4.1.3. The procedures for dealing with the emergency evacuation of staff must be agreed upon with the Depot Management.

12.4.2. The procedure shall detail the response plan in relation to the works, and include at least (but are not limited to) the following key elements:

12.4.2.1. Appointment of a competent emergency response co-ordinator and wardens; Lists of first aiders, and:

12.4.2.1.1. Fire;

12.4.2.1.2. Explosions

12.4.2.1.3. Public injury and motor vehicle accidents;

12.4.2.1.4. Falls from heights;

12.4.2.1.5. Serious injury to workers (medical or work-related); and

12.4.2.1.6. Any other major risks identified during risk assessments

12.4.3. The emergency plan is to ensure the inclusion of local service providers where possible.

12.4.3.1. Such arrangements should be made with these persons prior to the commencement of the project.

12.4.3.2. The general principals of emergency management are to be applied as it applies to the hierarchy of control and management.

12.4.4. The Contractor will provide the Principal Agent with the following information regarding their response plans for dealing with emergencies:

12.4.4.1. Contact person

12.4.4.2. Details of emergency services

12.4.4.3. Action to be taken in event of an emergency:

12.4.4.3.1. Fire

12.4.4.3.2. Accident

12.4.4.3.3. Damage to hospital services

12.4.4.3.4. Hazardous substances

12.4.4.4. Persons to be notified in the event of an accident or emergency:

12.4.4.4.1. Mrs Mcopele- Eastern Cape Department of Health 0833782014

12.4.4.4.2. Facility Management – Contact Details will be made available on awarding of the Tender.

12.5. First Aiders and First Aid Equipment

12.5.1. Competent, trained First Aiders are to be formally appointed for the project.

12.5.2. If the project is in a remote area, at least 2 trained level 3 first aiders are required.

12.5.3. In urban areas and close to medical assistance 1 level 3 first aider is required.

12.5.4. First aiders are to be available at all times and be able to cover each working team.

12.5.4.1. Further first aiders from the community or SMMEs, If not already accredited, are to be sent for accredited first aid training.

12.5.5. Contractors are expected to ensure compliance and manage their own first aiders and equipment.

12.5.6. Contractors are expected to ensure compliance and provide/manage their own first aiders and equipment.

12.5.7. Appropriately stocked first aid kits are to be available at all times and to assure continual availability and access on site.

12.6. Fires and Emergency Management

12.6.1. Attention to emergency planning and procedures is very important.

12.6.2. The full emergency plan must form part of the supporting documentation with the H&S Plan.

12.6.3. The H&S Agents approval of all emergency plans and procedures is required prior to commencement on site.

12.6.3.1. It is advised that the system should be simple and easy for any worker to follow.

12.6.3.2. The plan may be adapted should new information or risks are identified.

12.6.4. First aiders shall be available in each working team, and be able to work as a team when responding to any emergency on the project.

12.6.5. The procedure shall detail the response plan in relation to the works, and include at least (but are not limited to) the following key elements:

12.6.5.1. Appointment of a competent emergency response co-ordinator and wardens;

12.6.5.2. Lists of first aiders, and

12.6.5.3. Requirement in terms of identified risks:

12.6.5.3.1. Fire;

12.6.5.3.2. Explosions;

12.6.5.3.3. Falls from heights, and

12.6.5.3.4. Motor vehicle accidents.

12.6.6. The emergency plan is to ensure the inclusion of local service providers where possible.

12.6.6.1. Such arrangements should be made with these persons prior to the commencement of the project.

12.6.6.2. The emergency plan is to include the risk of fire on site and related to any specific activities where gas, welding, cutting etc. occur.

12.6.7. Fire extinguishers will be appropriate for the risk and in sufficient numbers to deal with the type of fires that could occur.

12.6.7.1. All mobile plant is to have fire extinguishers.

12.6.8. Hot work permits are required for any such activities.

12.6.8.1. Their position is to be shown on the sketch plan of the site.

12.7. Incident Management and Compensation Claims

12.7.1. The PC will ensure there is a management system to investigate all incidents.

12.7.1.1. All serious incidents involving any form of disabling injury or fatality are to be reported to the Designer /Client /H&S Agent immediately.

12.7.1.2. This shall be confirmed in writing following the incident.

12.7.1.3. Full details are to be included in each site meeting or when the Client visits site.

12.7.1.4. A summary of incidents is to be included in the monthly report.

12.7.2. Failure to comply with emergency provisions will be considered a serious offence, and the operation or project may be stopped if deemed inadequate for the work at the time of assessment or site inspection.

12.8. Personal Protective Equipment (PPE) and Clothing

12.8.1. The PC is to provide a procedure as an addendum to indicate how PPE is managed within the Company.

12.8.2. The wearing of the identified SANS approved PPE at all times is non-negotiable.

12.8.3. The PC shall ensure that all workers (Including Contractors) are issued with and shall wear as required; the first 3 items are mandatory for all workers:

12.8.3.1. Hard hats;

12.8.3.2. Protective footwear;

12.8.3.3. Reflective jackets (no bibs)

12.8.3.4. Overalls that ensure worker visibility

12.8.3.5. Eye protection;

12.8.3.6. Hearing protection;

12.8.3.7. Respiratory protection (minimum of FF2), and

12.8.3.8. Any other necessary PPE identified from SDSs and/or risk assessments.

12.8.4. Adequate quantities of PPE shall be available. This shall include necessary PPE for visitors. The procedures for managing PPE are to be in a formal procedure submitted with the H&S plan for approval.

12.8.5. The Contractor shall carry adequate stocks of Hi-visibility Jackets and hard hats for visitors

12.8.6. Any person (including Client, Designers etc.) found on site without the necessary PPE will be removed from site until the PPE is supplied and worn.

12.8.7. Failure to comply will result in penalties being applied.

12.9. Occupational Health and Safety Signage

12.9.1. On-site H&S signage is required.

12.9.1.1. Signage shall be posted up at fixed or temporary working areas, or other potential risk areas/operations.

12.9.1.2. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended.

12.9.1.3. Signage is to be noted on the site drawings indicating where fixed/temporary signage is required.

12.9.2. Temporary signage is to include (but not be limited to) the following:

12.9.2.1. 'Report to site Office'

12.9.2.2. 'Warning: Construction Site – Keep out' or similar;

12.9.2.3. 'Site Office' (if relevant);

12.9.2.4. 'Hard hat area' or other PPE requirements noted;

12.9.2.5. First aid box positions (including vehicles); and

12.9.2.6. Fire extinguishers.

12.9.3. Signs shall be posted at areas of work on site indicating that a construction site is being entered and that persons should take note of H&S requirements.

12.9.4. The Contractor shall establish a system for controlling and recording entrance to the Site office and camp area.

12.9.5. Failure to comply will result in penalties being applied.

12.10. Induction of Employees and Visitors, General H&S Training

12.10.1. A formal induction programme is to be submitted as an addendum for approval with the H&S plan.

12.10.1.1. Inductions must be carried out for all workers and visitors (including Client, Professional Team and ECDOH facility staff) to the site.

12.10.2. Pre-task training is required to ensure workers are familiar with the risks and H&S measures of the work or tasks to be done.

12.10.2.1. Such training is to be done at least daily.

12.10.2.2. Records of inductions and pre-task training are to be kept in the H&S file.

12.10.3. Any person found on site without proof of induction will be removed from site until the proof is supplied and, and a penalty issued per non-compliance.

12.11. Public and Site Visitor Health and Safety

12.11.1. The Principal Contractor shall ensure that every person working on or visiting the site, as well as the facility and the Public, shall be made aware of the dangers likely to arise from site activities, including the precautions to be taken to avoid or minimize those dangers.

12.11.2. The Principal Contractor shall ensure that appropriate Health and Safety notices and signs are posted where required.

12.11.3. Both the Principal Agent and the Contractor have a duty in terms of the Occupational Health and Safety Act to do all that is reasonably practical to prevent members of the public and site visitors from being affected by the work activities.

12.11.3.1. Warning notices are to be provided at the main entrance doors to the ECDOH facility notifying that construction work is taking place within the existing buildings.

12.11.3.2. Warning notices are also to be posted at all access areas to the construction area. Public and staff of the facility may not have access to the construction area.

12.11.3.3. Warning notices regarding the movement of workers and materials are to be posted externally between the Contractor's yard area and the service entrance.

12.11.4. The site areas must be suitably hoarded at all times with a limited number of restricted and controlled access points.

12.11.4.1. Adequate notices are to be displayed.

12.11.4.2. Hoardings are to be inspected daily and gates monitored during working hours and locked at the end of each work day.

12.12. Awareness

12.12.1. The Principal Contractor shall ensure that, on site, periodic toolbox talks take place at least once per week.

12.12.1.1. These talks should deal with risks relevant to the construction work at hand.

12.12.1.2. A record of attendance shall be kept in the Health & Safety file.

12.12.1.3. All Contractors must comply with this minimum requirement.

12.12.1.4. At least one of the Toolbox talks shall include an environmental related issue.

- 12.12.2. The Principal Contractor is to ensure that the ECDOH facility Management & Staff are kept informed of any change in the situation regarding the risks and hazards relating to the construction work on the site.

13. MANAGEMENT OF PLANT AND EQUIPMENT

13.1. Construction Plant

- 13.1.1. Construction Plant" includes all types of plant including but not limited to, cranes, piling rigs, excavators, road vehicles, and all lifting equipment.
- 13.1.2. The Principal Contractor shall ensure that all such plant complies with the requirements of the OHS Act 85/1993 and Construction Regulations 2014
- 13.1.3. The Principal Contractor and all relevant Sub Contractors shall inspect and keep records of inspections of the construction plant used on site.
- 13.1.4. Only authorised/competent (certified) persons are to use machinery under proper supervision.
- 13.1.5. Appropriate PPE and clothing must be provided and maintained in good condition at all times.
- 13.1.6. Proof of medical evaluations as required by the Construction regulations is available for inspection by the Client.

13.2. Plant & Equipment

- 13.2.1. Close control of plant and equipment is required, including that of Contractors.
- 13.2.2. Daily monitoring of all plant and equipment is required prior to commencing work.
- 13.2.3. Full lists of hired and own plant are to be available at the H&S Agent's/Client audit.
- 13.2.4. All daily inspection records are to be kept in the H&S file where plant and equipment is brought on to site.
- 13.2.5. Registers are not to be more than 1 week behind.

13.3. Operators

- 13.3.1. Only competent, fit plant operators are to be used.
- 13.3.2. Medical certificates of fitness are required for all operators.
- 13.3.3. Operators are to be adequately trained and certified to operate mobile cranes or crane trucks.
- 13.3.4. Certificates and registers are to be placed in the H&S file.

13.3.5. Failure to do so will be considered a serious offence.

13.4. Machinery and Power Tools

13.4.1. Only authorized competent persons are to operate machinery and power tools.

13.4.2. Appropriate PPE and clothing must be provided, used and maintained.

13.4.3. No unsafe / dangerous equipment or tools may be brought onto, or used, on the site.

13.4.4. The Client / Principal Agent reserve the right to inspect all tools and equipment at any time and to prevent / prohibit their use, if found to be unsafe, without any penalty to the Client and without affecting the terms of the contract in any way.

13.4.5. The Contractor may not use any machinery or power tools belonging to the ECDOH facility.

13.5. Portable Electrical Tools/Equipment and Explosive Powered Tools

13.5.1. The Principal Contractor shall ensure that use and storage of all explosive powered tools and portable electrical tools are in compliance with relevant legislation.

13.5.2. The Principal Contractor shall ensure that all-electrical tools, electrical distribution boards, extension leads, and plugs are kept in safe working order.

13.5.3. The Principal Contractor is to ensure that extension cables and temporary power supplies do not impede access ways or escape routes.

13.5.4. Regular inspections and toolbox talks must be conducted to make workers aware of the dangers and control measures to be implemented e.g. personal protection equipment, guards, etc.

13.5.5. The Principal Contractor shall ensure the following:

13.5.5.1. A competent person undertakes routine inspections and records are kept.

13.5.5.2. Only authorised trained persons use the tools.

13.5.5.3. The safe working procedures apply.

13.5.5.4. Awareness training is carried out and compliance is enforced at all times.

13.5.5.5. PPE and clothing is provided and maintained.

13.5.5.6. Electrical cables must be free from any damage.

13.5.5.7. Electrical tools & equipment may not be exposed to water.

13.5.5.8. A register indicating the issue and return of all explosive round.

13.5.5.9. Ensure that the cartridges and explosive tool is lock up separately.

13.5.5.10. Signs to be posted up in the areas where explosive powered tools are being used.
(WARNING - EXPLOSIVE POWERED TOOL IN USE - KEEP CLEAR).

13.5.5.11. That prior arrangement is made with the ECDOH facility Maintenance Supervisor before any explosive powered tools are used.

13.6. Hired Plant and Machinery

13.6.1. The Principal Contractor shall ensure that any hired plant and machinery used on site is safe for use.

13.6.2. The necessary requirements as stipulated by the OHS Act 85/1993 and Construction Regulations (February 2014) shall apply.

13.6.3. The Principal Contractor shall ensure that operators hired with machinery are competent and that certificates are kept on site in the health & safety file.

13.6.3.1. This includes medical certificates of fitness to operate construction vehicles and appointment of the operator.

13.6.3.2. All relevant Sub Contractors must ensure the same.

13.6.4. Daily inspections must be recorded by each operator.

13.6.4.1. A copy of the machines service log book & planned maintenance schedule must be supplied with the machine.

13.6.5. Operators must be trained on the relevant risk assessments and safe working procedures.

13.6.6. The hired plant company must provide proof of registration with Workman's Compensation or FEM before delivery of plant to site.

13.6.7. The Hire Company must be required to sign a 37(2) Mandatory Agreement with the hire company before commencing with work. (Applicable if an operator is supplied with the machine.

13.7. Vessels under Pressure and Gas Bottles

13.7.1. The Principal Contractor and all relevant Sub Contractors shall comply with the Vessels under Pressure Regulations, including:

13.7.1.1. Stored in a wire mesh, faced, shaded, ventilated, approved surfaces and lockable facility with all the necessary gas, prohibition & warning signs posted and as far as possible positioned away from buildings/establishment.

13.7.1.2. Storage area must be free from combustible material or any other materials.

13.7.1.3. No smoking or naked flame signs posted as well as sufficient firefighting equipment.

13.7.1.4. Cylinders must be stored in rows with aisles in between for easy removal in event of a

fire.

- 13.7.1.5. Different types of gasses will be stored separately in an upright position, separately secured and the type of gas displayed identified with appropriate signage.
- 13.7.1.6. Knocking or falling of cylinders must be prevented when moved.
- 13.7.1.7. Before a cylinder is moved without suitable truck or trolley, the cylinder valve will be closed and the regulator removed.
- 13.7.1.8. Only approved cylinder crates/cradles will be used.
- 13.7.1.9. Cylinders may not be transported with magnet cranes.
- 13.7.1.10. Cylinders may never be used as rollers, even if they are marked empty.
- 13.7.1.11. Cylinders may never be exposed to electrical circuits, e.g. welding leads. Never strike an arc on a cylinder.
- 13.7.1.12. Cylinders must be protected from direct sunlight or areas that could cause the cylinder to overheat.
- 13.7.1.13. Keep cylinders away from cutting work to stop sparks or hot slag from reaching them.
- 13.7.1.14. As with compressed air only use oxygen for the purpose for which it is approved.
- 13.7.1.15. May not be used for pneumatic tools or inflation of tires as an explosion could occur.
- 13.7.1.16. Oxygen cylinders must be stored at least 5m away from other flammable gas cylinders.
- 13.7.1.17. Flashback arrestors must be fitted to the torch and the cylinder.
- 13.7.1.18. Empty cylinders must be marked as such and removed daily to a separate approved storage areas.
- 13.7.1.19. Cylinders may only be allowed on site in an approved trolley, properly secured and with a 1.5kg dry powder fire extinguisher within 2m of the cylinder.
- 13.7.1.20. Flammable and oxidizing gasses may not be stored together and greases/oils may never be allowed to come in contact with Oxygen.
- 13.7.1.21. Visual inspections will be done by the appointed HCS Controller to ensure that substandard vessels are not delivered and stored on site.
- 13.7.1.22. Pressure vessels must have a certificate of manufacture as well as a service inspection test certificate issued at intervals not exceeding 36 months. These certificates will need to be submitted to the Safety Department on site.

13.8. Hand tools

13.8.1. No handmaid or damaged tools may be used on site.

13.8.2. The Principle Contractor needs to exercise control over all contractors on site.

13.8.3. Hand tools may only be used for its intended purpose.

13.8.4. A competent person must be appointed to inspect hand tools monthly.

13.8.5. Inspections need to be recorded on a register and each tool identified with a unique number.

13.9. Inspection of equipment and tools.

13.9.1. The following items of equipment must be regularly inspected and maintained and appropriate records kept.

13.9.1.1. First Aid dressing registers

13.9.1.2. Fire equipment

13.9.1.3. Lifting equipment

13.9.1.4. Lifting Gear

13.9.1.5. Portable electrical equipment

13.9.1.6. Stacking and storage inspections

13.9.1.7. Explosive power tools

13.9.1.8. Hazardous Chemical Substances (HCS)

13.9.1.9. Materials hoists (where applicable)

13.9.1.10. Pressure Vessels

13.9.1.11. Ladders

13.9.1.12. Excavations

13.9.1.13. Safety harnesses

13.9.1.14. Scaffolds - static and mobile.

13.9.1.15. Pneumatic tools

13.9.1.16. Construction vehicles and mobile plant.

13.9.1.17. Health and Safety Representatives checklists.

13.10. Ladders and ladder work

13.10.1. The Principal Contractor shall appoint a competent person in writing to inspect all ladders monthly and record such findings in a register.

13.10.2. Ladders are to extend one meter above a landing and must be secured at the top and have a secure, non-slip base.

13.10.3. All ladders that do not comply with Health and Safety standards are to be removed from the site immediately.

13.11. Cranes and lifting equipment

13.11.1. Should any form of lifting device or crane (fixed or mobile) be used during the project for deliveries, moving of supplies or equipment, the appropriate documentation must be made available.

13.11.2. The Principal Contractor and all Contractors shall ensure that lifting machinery and tackle is inspected before use and thereafter in accordance with the Driven Machinery Regulations and the Construction Regulations (section 20).

13.11.3. Method statements, risk assessments, safe work procedures and training are to be available prior to work commencing.

13.11.4. A procedure for managing loads and lifting must be made available as an addendum to the H&S Plan.

13.11.5. There must be competent lifting machinery and tackle inspector who must inspect the equipment daily or before use, considering that:

13.11.6. All lifting machinery has a safe working load clearly indicated.

13.11.7. All lifting equipment is clearly marked with a unique number and safe working load.

13.11.8. Regular inspection and servicing is carried out:

13.11.8.1. Lifting Machinery load test – every 12 months

13.11.8.2. Lifting Machinery Inspection & service – every 6 months

13.11.8.3. Lifting Tackle Load test – every 12 months

13.11.8.4. Lifting Tackle Inspections – every 3 months

13.11.9. Records are kept of inspections and of service certificates.

13.11.10. Any plant or slings used to lift plant or material requires annual load testing by an AIA, and all certificates must have the testers LMI/E number.

13.11.11. There is proper supervision in terms of rigging & guiding the loads that includes a trained banks man to direct lifting operations and check lifting tackle.

13.11.12. The operators are competent as well as physically and psychologically fit to work and in possession of a medical certificate of fitness to be available on site.

13.12. Tower Cranes

13.12.1. Should one or more tower cranes be required on site a procedure for management must be available as an addendum to the H&S plan.

13.12.2. The following information must be included:

13.12.2.1. planning – including site preparation, crane erection and dismantling;

- 13.12.2.2. selection, provision and use of a suitable crane and work equipment, including safe slinging and signaling arrangements;
 - 13.12.2.3. maintenance and examination of the crane and equipment;
 - 13.12.2.4. provision of properly trained and competent personnel;
 - 13.12.2.5. supervision of operations by personnel having the necessary authority;
 - 13.12.2.6. thorough examinations, reports and registers;
 - 13.12.2.7. preventing unauthorized movement or use of the crane; and
 - 13.12.2.8. Measures to secure safety of persons not involved in the lifting.
- 13.12.3. Personnel or material hoists are to comply to the relevant SANS codes and be accompanied by the relevant designs by competent persons, load testing certificates and registers.
- 13.12.4. Weather conditions are to be considered and work limited where deemed to be a risk, or per the standards for the particular crane.

13.13. Overhead Work & suspended loads

- 13.13.1. All overhead work & suspended loads must be safely executed and controlled under supervision.
- 13.13.2. The area around suspended loads must be barricaded to prevent unauthorized entry of persons whom is not part of the task.
- 13.13.3. Workers may not be positioned under a suspended load at any given time.
- 13.13.4. To control overhead work the Principle contractor must ensure that Workers secure all materials & equipment to prevent articles falling from above onto workers below.

13.14. Temporary Works (Scaffolding, support work, formwork)

- 13.14.1. The Principal Contractor shall ensure that the provisions of section 12 of the Construction Regulations are adhered to.
 - 13.14.1.1. These provisions must include but not be limited to the appointment of a competent supervisor; ensuring that all equipment used is examined for suitability before use; that all formwork and support work is inspected by a competent person immediately before, during and after placement of concrete or any other imposed load and thereafter, daily until the formwork and support work has been removed.
- 13.14.2. Temporary works must be properly designed and signed off by a competent person.

13.14.2.1. In these instances, a competent person is defined as a Professional Engineer or Professional Technologist (registered with ECSA) who has sufficient experience in the design of the type of temporary work in question to be able to assess the design.

13.14.3. The appropriate competent persons are to be appointed to manage and monitor such works to the satisfaction of the Engineer and H&S Agent.

13.14.4. Records and registers are to be properly completed and kept in the H&S file. If temporary works are to be erected by a Contractor, this must be notified to the Designer/H&S Agent.

13.14.5. Failure to do so will be considered a serious offence.

13.15. Batch Plants

13.15.1. Whichever form of batch plant is used, for mixing concrete, guards and protection of nip points, emergency stops etc. are to be appropriately managed by competent supervision.

13.15.2. Edge protection, movement of plant and dust management are required, including disposal of cement bags.

13.15.3. The layout of the batch plant and movement of plant is to be provided on an appropriate drawing.

13.15.4. The added requirement of Chest X rays for workers is to be added to pre-employment and possibly exit medicals, unless the workers are already on a system of medical surveillance.

14. WORKING PROCEDURES

14.1. Demolition work

14.1.1. A competent person is to be appointed in writing to supervise and control all demolition work on site.

14.1.2. A method statement on the procedure to be followed in demolishing the structure is to be developed by a competent person prior to the work being carried out.

14.1.3. Separate method statements will be required for separate walls, roofs and structures being demolished at ECDOH facility to ensure each risk has been thoroughly analysed.

14.1.4. The Construction Regulations section 14 conditions shall apply.

14.1.5. The Contractor is to provide suitable temporary signage to protect the areas under demolition.

14.1.6. The Contractor is to provide suitable dust-proof screens where necessary to contain dust from the demolitions.

14.1.7. The Contractor is to make every effort to limit the noise during demolition work and is to ensure that the work is carried out with the least possible interference to the employees, patients and visitors at ECDOH facility.

14.1.8. Rubber bin or similar approved rubble chutes are to be provided for the disposal of the rubble from the demolition works at ECDOH facility.

14.1.9. All materials arising from the demolitions are to be removed from site immediately and are not allowed to accumulate on site.

14.2. Site Works and Excavations

14.2.1. A competent person is to be appointed in writing to supervise the Site Works and Excavations.

14.2.2. A method statement on the procedures relating to the diversion of existing services and the maintenance of services to the existing facilities is to be agreed between the Contractor and the Principal Agent prior to the commencement of the work.

14.2.3. The Contractor is to ensure Risk Assessments & Safe Working procedures have been communicated to the workers before any work is commenced.

14.3. Excavations

14.3.1. A procedure for managing excavations is to be provided as an addendum to the H&S plan describing how excavations are to be managed.

14.3.2. Excavation method statements are to be approved by the Designer and associated risk assessments are required.

14.3.3. All Excavations are to be properly barricaded and demarcated.

14.3.4. Any excavation shall be adequately shored if people are required to work in the excavation and the depth is more than 1.5 metres or where conditions render this necessary at lesser depths unless battered/sloped at the maximum angle of repose measured relative to the horizontal plane.

14.3.4.1. Undercutting is not allowed.

14.3.5. Excavated material shall be placed at least 2m from the edge of an excavation.

14.3.5.1. A close watch shall be maintained at all times for signs of slipping, (e.g. cracks developing at the edges of the excavation).

14.3.5.2. Any Excavations over one metre in depth are to be properly shored up in accordance with the requirements of the Civil / Structural Engineer.

14.3.5.3. The requirements as per section 13 of the Construction Regulations are adhered to.

14.3.5.4. Designs by competent persons are required where ground conditions are deemed to require shoring.

14.3.6. A competent person is to be appointed for managing all excavations.

14.3.6.1. A permit system is to be available and used for all excavations.

14.3.6.2. All equipment and ground conditions to be checked daily, and prior to work commencing.

14.3.7. The Contractor shall evaluate, as far as is reasonably practicable, the stability of the ground before excavation work begins.

14.3.8. Every contractor who performs excavation work shall –

14.3.8.1. Take suitable and sufficient steps to prevent, as far as is reasonably practicable, any person from being buried or trapped by a fall or dislodgement of material in an excavation.

14.3.8.2. Not permit any person to work in an excavation which has not been adequately shored or braced: If shoring and bracing may not be necessary where –

14.3.8.2.1. The sides of the excavation are sloped to at least the maximum angle of repose measured relative to the horizontal plane; or

14.3.8.2.2. Such an excavation is in stable material:

14.3.8.2.3. Provided that - Permission being given in writing by the appointed competent person contemplated in sub regulation (1) upon evaluation by him or her of the site conditions; and where any uncertainty pertaining to the stability of the soil still exists, the decision from a professional engineer or a professional technologist competent in excavations shall be decisive and such a decision shall be noted in writing and signed by both the competent person contemplated in sub regulation (1) and the professional engineer or technologist, as the case may be.

14.3.8.2.4. Take steps to ensure that the shoring or bracing contemplated is designed and constructed in such a manner rendering it strong enough to support the sides of the excavation in question.

14.3.8.2.5. Ensure that no load, material, plant or equipment is placed or moved near the edge of any excavation where it is likely to cause its collapse and thereby endangering the safety of, any person, unless precautions such as the provision of sufficient and suitable shoring or bracing are taken to prevent the sides from collapsing.

14.3.8.2.6. Ensure that where the stability of an adjoining building, structure or road is likely to be affected by the making of an excavation, the steps are taken that may be

necessary to ensure the stability of such building, structure or road and the safety of persons.

- 14.3.8.2.7. Cause convenient and safe means of access to be provided to every excavation in which persons are required to work and such access shall not be further than 6m from the point where any worker within the excavation is working.
- 14.3.8.2.8. Ascertain as far as is reasonably practicable the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and shall before the commencement of excavation work that may affect any such service, take the steps that may be necessary to render the circumstances safe for all persons involved.
- 14.3.8.2.9. Cause every excavation, including all bracing and shoring, to be inspected by the competent person contemplated in the sub regulation:
 - 14.3.8.2.9.1.1. Daily, prior to each shift.
 - 14.3.8.2.9.1.2. After every blasting operation.
 - 14.3.8.2.9.1.3. After an unexpected fall of ground.
 - 14.3.8.2.9.1.4. After substantial damage to supports.
 - 14.3.8.2.9.1.5. After rain.
- 14.3.8.2.10. This is to be done in order to pronounce the safety of the excavation to ensure the safety of persons, and those results are to be recorded in a register kept on site and made available to an inspector, client, client's agent, contractor or employee upon request.
- 14.3.8.2.11. Cause every excavation which is accessible to the public or which is adjacent to public roads or thoroughfares, or whereby the safety of persons may be endangered, to be:
 - 14.3.8.2.12. Adequately protected by a barrier or fence of at least one meter in height and as close to the excavation as is practicable.
 - 14.3.8.2.13. Provided with warning illuminates or any other clearly visible boundary indicators at night or when visibility is poor.
 - 14.3.8.2.14. Ensure that all precautionary measures as stipulated for confined spaces as determined in the General Safety Regulations promulgated by Government Notice No. R.1031 of 30 May 1986, as amended, are complied with when entering any excavation.
 - 14.3.8.2.15. Ensure that, where the excavation work involves the use of explosives, a method statement is developed in accordance with the applicable explosives

legislation, by an appointed person who is competent in the use of explosives for excavation work and that the procedures therein are followed.

14.3.8.2.16. Cause warning signs to be positioned next to an excavation within which persons are working or carrying out inspections or tests.

14.3.9. Excavations should preferably not be open beyond what can be closed daily.

14.3.9.1. Where excavations need to remain open, all excavations are to be properly protected.

14.3.9.1.1. Adequate stakes with 1m high demarcation and berms/spoil are required to be a safe distance from the edge of the angle of repose. Candy tape may not be used to demarcate excavations.

14.3.9.1.2. Cognisance is required of the surrounding area and increased levels of protection are required where work is in communities, near schools' clinics and / or Hospitals.

14.3.10. Work will be stopped and penalties applied to any work in excavations that are not compliant.

14.4. Working at Heights

14.4.1. A fall protection plan is to be available and supplied as an addendum to the H&S plan.

14.4.1.1. The fall protection plan must be appropriate for the project.

14.4.1.2. Method statements, appropriate risk assessments, safe work procedures and training are to be available prior to work commencing.

14.4.2. Construction drawings shall be required for all temporary structures as they relate to the project.

14.4.2.1. The drawings shall be accompanied by full calculations, design loads and any relevant test results as required by the SANS code, and ensure adequate allowance for the development of appropriate documentation and training.

14.4.2.2. All drawings are to be checked and signed by a competent structural engineer (registered with ECSA).

14.4.3. The focus for working at height shall include fall restraint systems where possible except during assembling or dismantling top components or where it is not deemed safe.

14.4.3.1. The relevant SANS codes are to be applied as they apply to the works and the project, such as:

14.4.3.1.1. SANS 10085

14.4.3.1.2. SANS 10333 (parts 1-3)

14.4.4. Should part of the works be contracted out, competent Contractors are to be appointed and submit documentation according to the project requirements.

14.4.4.1. The PC is to note if such work is to be contracted to specialists in the H&S Plan.

14.4.4.2. The plan is to be developed and work managed by a competent person for the duration of the project.

14.4.4.3. The following aspects must be included:

14.4.4.3.1. The public or users of buildings are to be protected at all times by way of hoarding, barricading or fencing

14.4.4.3.2. Notices to be posted

14.4.4.3.3. Restrictions or stoppage when weather conditions are deemed hazardous

14.4.4.3.4. Permit system for working at heights

14.4.4.3.5. Prevention of falling tools or equipment

14.4.4.3.6. Link to emergency plan regarding rescue

14.4.4.3.7. All workers are to be in possession of valid certificates of fitness that extend for the duration of the works.

14.4.4.4. Note the requirements in the section relating to medical surveillance.

14.4.4.5. Registers and all relevant documentation are to be placed in the H&S file.

14.4.4.6. Work will be stopped and penalties applied to any work at heights that is not compliant.

14.5. Edge protection

14.5.1. The Principal Contractor must ensure that all edges and openings are guarded and demarcated at all times until permanent protection is erected.

14.5.2. The protection must be visibly marked and sign posted.

14.6. Roof work

14.6.1. All roof work must be conducted in accordance with Construction Regulation 10, with a fall protection plan in place before any work commences.

14.7. Piling

14.7.1. Method statements, risk assessments and safe work procedures are to be available for the type of piling chosen for the project.

14.7.2. Focus on dust limitation during the piling and mixing of grout.

14.7.3. Load testing of rigs will be required as per the current legislation. Use of Compressors will be managed as per SANS and legislative requirements, and is applicable to any plant hired for site.

14.7.4. Failure to do so will be considered a serious offence.

14.8. Asbestos removal/replacement of roof / sheeting

14.8.1. The removal of asbestos must be by an asbestos approved Contractor.

14.8.2. The H&S specification provided by the PC is to include as much information as possible relative to the requirements relating to asbestos.

14.8.3. An asbestos removal plan must be approved by the Department of Labour as well as approval of all general information required of Contractors.

14.8.4. Failure to do so will be considered a serious offence.

14.9. Mechanical installations

14.9.1. All mechanical installations are to be carried out in conformity with the manufacturer's instructions.

14.9.2. Method statements and risk analyses must be compiled for each type of installation.

14.9.3. A competent person must be designated to supervise the work.

14.10. Electrical work

14.10.1. In addition to the requirements of the Electrical Machinery Regulations and the General Machinery Regulations any electrical distribution board used for construction work shall be fitted with suitable earth leakage protection.

14.10.2. Leads must be properly and firmly connected.

14.10.3. Plugs and sockets shall be in good and safe condition.

14.10.4. All electrical apparatus, other than electrical hand tools, shall have a physical "lock out" system which will prevent any operation other than that authorized by a supervisor.

14.10.4.1. A "lock out" sign shall be displayed when the apparatus is not in use.

14.10.5. Method statements and safe work procedures will be required for all work involving electrical apparatus.

15. Auditing

15.1.1. Frequency of external auditing by the H&S Agent or Client will be as agreed with the Client and Designer but will at least conform to the requirements of the Construction Regulations.

- 15.1.1.1. The site will be inspected and the documentation audited relative to the activities and H&S plan.
- 15.1.1.2. The H&S Officer of the PC must accompany the Client, or the H&S Agent, on all audits and inspections.
- 15.1.1.3. Not all audits will be, or need be announced.
- 15.1.2. The PC will ensure that all their Contractors are audited at a frequency determined by the H&S Agent.
 - 15.1.2.1. Audit frequency may be increased if Contractors are not performing adequately.
 - 15.1.2.2. Audit results will be acted upon and non-conformances and penalties issued where deemed appropriate.
 - 15.1.2.3. The Client, Designer or H&S Agent may act or require further outcomes if non-compliances are noted or unsafe acts are noted on site.
- 15.1.3. Internal audits are to include site conditions as well as ensuring H&S files are appropriate, and compliant.
 - 15.1.3.1. Comprehensive audit reports are to be made available, the format of the audit reports is to be acceptable by the H&S Agent.
- 15.1.4. The PC will be audited using a template as supplied in the tender document.
 - 15.1.4.1. The audit template will be adjusted from time to time relative to the activities on site.
 - 15.1.4.2. A similar process is to be used by the PC when auditing their Contractors on site.
 - 15.1.4.3. Compliance with legislative requirements and the systems provided by the PC to manage the H&S on site will be measured.
 - 15.1.4.4. Full compliance is required. Time limits for corrective actions will be set and must be adhered to.
- 15.1.5. Failure to address findings or non-conformances will be considered a serious offence.

16. OCCUPATIONAL HEALTH

16.1. Communication on Site

- 16.1.1. All H&S communication during the project between the H&S Agent and the PC will be done through the PA/Clerk of Works/Client and be in writing, including the issue and responses to non-conformances and H&S audit results.
- 16.1.2. Failure to address issues timeously will be considered a serious offence.

16.2. Care of Workers on Site (Welfare)

16.2.1. Adequate toilets, clean, safe drinking water and decent shelter will be provided for workers at all times.

16.2.1.1. Toilets will be within reasonable distance of workers, or placed with each working team in safe, with reasonable privacy.

16.2.1.2. Hand washing facilities will be provided.

16.2.1.3. Arrangements made where existing facilities are shared with existing users must be made in writing and placed in the H&S file.

16.2.2. Failure to ensure compliance will be considered a serious offence.

16.2.3. High levels of humidity and temperatures during the summer months may be experienced.

16.2.3.1. Workers are at greater risk of heat exhaustion where the discomfort index rises above 100.

16.2.3.2. A weather station has been allowed for to monitor temperature and humidity specifically.

16.2.3.3. Should the discomfort index rise above 105, work may be partially or totally stopped.

16.2.4. During winter in areas known for cold weather notice must be taken of the wind-chill factor.

16.2.4.1. Workers must be supplied with adequate protective clothing and shelters provided as necessary.

16.2.5. Flooding may occur during the rainy season.

16.2.6. High winds may be experienced and to limit dust or danger when working at heights, a wind speed should be set at which work may be stopped or the workers in an affected area moved.

16.2.7. The emergency plan is to include how these and other weather extremes identified are to be managed.

16.2.7.1. The general aspects as detailed in the Environmental Regulations will be applied.

16.2.8. All decisions regarding work stoppage will be decided between the PC, the H&S Officer and the Engineer or Principal Agent.

16.2.9. Failure to manage specific conditions or address issues timeously will be considered a serious offence.

16.3. Discipline, Alcohol and Substance Abuse

16.3.1. All employees (management included) are to follow instructions given in the interest of H&S.

16.3.1.1. Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

16.3.2. No person can work or access site if under the influence of alcohol or other substances that could impact on their own or others safety.

16.3.2.1. The PC is to have a drug and alcohol policy available to manage such instances.

16.3.3. These requirements are applicable to any employee of any organization providing services on site.

16.3.3.1. Penalties may also be applied by the Client, OHS Agent, Engineer or Principal Agent.

16.4. Rules of Conduct.

16.4.1. Workers MAY NOT partake, possess or sell drugs or alcoholic beverages on site.

16.4.2. Any employee or visitor whose action and demeanour show symptoms of possible narcosis or drunkenness shall be removed from site.

16.4.3. Workers MAY NOT indulge in practical jokes, horseplay, fighting or gambling.

16.4.4. Workers MAY NOT destroy or tamper with safety devices, symbolic signs or wilfully and unnecessarily discharge fire extinguishers.

16.4.5. Workers MAY NOT bring onto site or have in their possession a firearm or lethal weapon.

16.4.6. Workers MAY NOT assault, intimidate or abuse any other person.

16.4.7. Workers MAY NOT operate construction equipment (vehicles or plant) without the necessary training and authorisation.

16.4.8. Workers MAY NOT display insubordination toward any Supervisor, Foreman or Manager in respect to carrying out of properly issued instructions or orders for Health and Safety reasons.

16.4.9. Workers MAY NOT enter any area where they have no business unless authorised to do so by the person in charge.

16.4.10. Workers MAY NOT negligently, carelessly or wilfully cause damage to property of others.

16.4.11. Workers MAY NOT refuse to give evidence or deliberately make false statements during investigations.

16.4.12. Workers MAY NOT work on site without appropriate induction training & proof thereof.

16.4.13. The Contractor MAY NOT start any task without performing a risk assessment & training of the employees who will be involved in the work.

16.4.14. All workers are to display their identification tags at all times.

16.4.15. NO SMOKING will be permitted within the ECDOH facility.

16.4.16. Workers are NOT to interfere with the duties of the ECDOH facility.

16.4.17. The Principal Contractor shall keep and maintain Health and Safety records to demonstrate compliance with this Specification, with the Occupational Health and Safety Act, and with the Construction Regulations.

16.4.18. The Principal Contractor shall ensure that all records of incidents/accidents, emergency procedures, training, inspections, audits, etc., are kept in the Health and Safety file.

16.4.19. The Principal Contractor shall ensure that all Sub-contractors maintain the Health and Safety file.

16.5. Compliance with the Rules of Conduct.

16.5.1. The Principal Contractor, Subcontractors and all employees under their control, including any visitor brought onto site must adhere to the Rules of conduct on site, as listed under Section 12.28.

16.5.2. These Rules of Conduct must also be adhered to by any of the following who visit the Site:

16.5.2.1. Professional Team

16.5.2.2. Hospital Management and Staff

16.5.2.3. ECDoH Employees

16.5.2.4. Direct Contractors

16.5.2.5. Trade Representatives

16.5.2.6. Any other visitors to the Site.

16.6. Electrical Equipment

16.6.1. In addition to the requirements of the Electrical Machinery Regulations and the General Machinery Regulations any electrical distribution board used for construction work shall be fitted with suitable earth leakage protection.

16.6.2. Leads must be properly and firmly connected.

16.6.3. Plugs and sockets shall be in good and safe condition.

16.6.4. All electrical apparatus, other than electrical hand tools, shall have a physical "lock out" system which will prevent any operation other than that authorized by a supervisor.

16.6.4.1. A "lock out" sign shall be displayed when the apparatus is not in use.

16.6.5. Method statements and safe work procedures will be required for all work involving electrical apparatus.

17. SAFETY RULES WITH RESPECT TO WORK TO HEALTHCARE FACILITIES

- 17.1. All persons on the premises shall obey the ECDoH and facility Health and Safety rules, procedures and practices.
- 17.2. No smoking will be permitted within the buildings or within the buildings under construction.
- 17.3. All work shall be carried out within normal working hours except certain essential works which may need to be carried out after hours or over weekends – arrangements for such work to be agreed in advance between the Contractor and Principal Agent.
 - 17.3.1. Note: That on this contract it is assumed that work will take place 7 days a week including after hours and at night as required.
 - 17.3.2. The Contractor is to agree the weekly work schedule in advance with the Principal Agent.
- 17.4. All workers are to be instructed in and familiarise themselves with the existing emergency and safety procedures and to co-operate in any drills or exercises which might be held by the Hospital.
- 17.5. Emergency / Firefighting equipment belonging to the premises is not to be interfered with.
- 17.6. Emergency Exits and Escape Routes, including Temporary Escapes Routes are not to be obstructed.
- 17.7. No persons shall carry out or initiate an unsafe / unhygienic act or operation whilst on the premises.
- 17.8. Workers are not to interfere with the duties of the ECDOH facility staff.
- 17.9. The Contractor shall maintain good housekeeping standards in the areas being worked on throughout the duration of the contract.
- 17.10. All waste / scrap materials are to be removed from the work areas on an on-going basis and should not be allowed to accumulate.
- 17.11. The ECDOH facility and the Eastern Cape Department of Health Management reserve the right to act in any way necessary to ensure the safety and / or security of any persons or equipment on its premises and will not be liable for any costs incurred or loss evoked by such actions.
- 17.12. The ECDOH facility and Eastern Cape Department of Health Management reserve the right to search all vehicles entering, leaving or parked on the premises and to inspect any parcel, package, handbag, tog-bag or suitcase.
- 17.13. The CHC staff reserve the right to search any person entering or leaving the CHC premises.
- 17.14. Persons who are not willing to permit such searches may not bring any such items or vehicles onto the premises.

- 17.15. All workers must wear proper identification labels at all times – The Contractor will be asked to remove persons without identification from the premises.
- 17.16. The Contractor will not be permitted to use any tools or equipment belonging to the CHC.
- 17.17. The Contractor is to ensure that noise is kept to a minimum so as not to unduly interfere with the functioning of the adjacent facilities.
- 17.18. The Contractor is to ensure that dust from the works is properly contained so as not to cause problems with the normal functioning of the adjacent facilities.

18. PROJECT SPECIFIC RISKS

18.1. Risks applicable to the planned construction work at ECDOH facility

- 18.1.1. Working on the existing ECDOH facility site in a building that contains essential medical supplies and will remain in operation throughout the contract period.
- 18.1.2. The existing ECDOH facility is a high-risk security area and the Contractor must ensure that the security of the areas not being worked on is not compromised.
- 18.1.3. The Contractor will have to coordinate with the ECDOH facility Management and Staff regarding the transfer of stock from one area to another to clear the work areas where necessary.
- 18.1.4. Where necessary the Contractor is to provide temporary security screens to ensure the security of areas not being worked on.
- 18.1.5. Existing services will have to be altered whilst maintaining continuity and supply to the existing facilities.
- 18.1.6. The Contractor having to access the work areas through the existing ECDOH facility areas that are functional.
- 18.1.7. The transporting of materials in and out of the work areas without compromising the security of the remaining occupied areas.
- 18.1.8. Works above 5 meters in height.
- 18.1.9. Working at height in restricted spaces along the perimeter of the building.
- 18.1.10. Working in/near busy delivery and dispatch areas.
- 18.1.11. The limiting of noise & vibration from construction activities.
- 18.1.12. Keeping the escape routes clear and unobstructed.
- 18.1.13. Restricted access for materials and workers.
- 18.1.14. Restricted Contractor's yard area.
- 18.1.15. Restricted access for construction vehicles and deliveries of materials.
- 18.1.16. Tight construction programme.
- 18.1.17. The maintenance of the existing ablutions, windows, roof work and barge boards.

19. PROCEDURES TO MANAGE PROJECT RISKS

19.1. Public and Staff Safety.

- 19.1.1. The scheduling of work activities and order of work to reduce the interference with the normal facilities activities.

19.1.2. The provision of temporary, dust proof, hoardings to isolate the work areas.

19.1.3. The use of closed bin trolleys for the transport of materials and rubble.

19.1.4. Ensuring that the Principal Contractor has proper site management, site security and control measures in place at all times.

19.1.5. Ensuring that there is ongoing liaison between the Principal Contractor and ECDOH facility Management.

19.2. Public Safety

19.2.1. The provision of temporary, hoardings to isolate the work area.

19.2.2. The use of closed rubble chutes and suitable skips for removal and disposal of rubble.

19.2.3. Ensuring that the Principal Contractor has proper site management, site security and control measures in place at all times.

All task specific risks have been analysed and are detailed in the baseline risk assessment.

20. HEALTH AND SAFETY FILE

20.1. The documentation submitted and approved following the awarding of the contract will be used to form the H&S file.

20.2. The H&S file is required to be laid out in a logical manner, and documentation filed within the file is to be easily accessible.

20.3. The following completed information shall be included (but not be limited to) as part of the index:

20.3.1. The PSHSS;

20.3.2. The H&S Plan and the approval by Client;

20.3.3. Appointment by Client;

20.3.4. Mandatory agreement with Client;

20.3.5. Notification of construction work;

20.3.6. A record of all working drawings, calculations and design where applicable;

20.3.7. Detailed list of Contractors with contact details, appointments, Mandatories etc., H&S specifications issued;

20.3.8. Record of Competencies (CVs) and appointments;

20.3.9. Training Records;

20.3.10. Permits / Notification of Construction;

20.3.11. Method statements;

- 20.3.12. Risk assessments;
- 20.3.13. Safe work procedures;
- 20.3.14. Emergency and injury management;
- 20.3.15. Safety data sheets
- 20.3.16. Medical surveillance records;
- 20.3.17. Registers;
- 20.3.18. Records of audits, minutes etc.
- 20.3.19. Plant lists
- 20.3.20. Temporary electrical installations
- 20.3.21. Employee records (who is on site)

21. **NON-CONFORMANCES**

21.1. Should, at any time, the works, or part of the works, be stopped due to unsafe acts or non-compliance with the Clients or PCs H&S Plan; neither the PC nor any other Contractor shall have a claim for extension of time or any other compensation.

21.2. The following constitute examples of the types of non-conformances that will attract penalties:

Minor: Penalty: R50/count	Medium: Penalty: R500/count and a non-conformance	Severe Penalty: R5000/count, a non- conformance and/or activity stoppage
Non-use of PPE supplied	Toilets not supplied or regularly serviced; lack of drinking water	Contractors working without Health and Safety Plan approval
Non-completion of registers for plant and equipment on site	Contractors not audited	Workers transported in contravention of the OHS plan or legal requirements
Lack of H&S signage at work areas	Working without training or the appropriate, approved H&S method statements	Invalid Letters of Good Standing
Tools and equipment identified in poor condition during inspections	Legal non-conformances identified during the previous audit and not addressed within the agreed time frame	Non-compliance with traffic accommodation requirements: layout or physical conditions
	No monthly OHS report at site meeting to report on	Any serious breach of legal requirements
	No certificates of fitness for workers as required	Working at heights without the required control measures e.g. safety harnesses attached to a life line.
	Working without approved method statements	

21.3. Failure to Comply with Provisions

21.3.1. Failure or refusal on the part of the PC or their Contractors to take the necessary steps to ensure the safety of workers and the general public in accordance with these specifications or as required by statutory authorities or ordered by the engineer, shall be sufficient cause for the engineer to apply penalties as follows:

21.3.1.1. A penalty as shown in the Table above shall be deducted for each occurrence of non-compliance with any of the requirements of the PSHSS.

21.3.1.2. In addition, a time-related penalty of R500,00 per hour over and above the fixed penalty may be deducted for non-compliance to rectify any non-conformance within the allowable time after a site instruction to this effect has been given by the Designer.

21.3.1.3. The site instruction shall state the agreed time, which shall be the time in hours for reinstatement of the defects.

21.3.1.4. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.

22. MEASUREMENT AND PAYMENT

22.1. The payment items for Occupational Health & Safety are contained in the Bills of Quantities.

22.2. The same rules are applicable in respect of the pricing of these items as for every other payment item.

22.3. Attention is drawn to the Pricing Instructions in this document.

22.4. Item and Unit

22.4.1. **C.01 - Preparation of Contractor's Project Specific Health and Safety Plan. (Lump Sum (L.S))**

22.4.1.1. The rate for this item must cover all expenses incurred in preparing the Contractor's project specific Health and Safety Plan as required by the Client's project specific Health and Safety Specification in this document

22.4.2. **C.02 - Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations. (Lump Sum (L.S))**

22.4.2.1. The full amount will be paid in one instalment only when the Client's Agent has verified and approved the following:

22.4.2.1.1. The Principal Contractor has notified the Provincial Director of the Department of Labour in writing of the project, Annexure A to the Regulations.

22.4.2.1.2. The Principal Contractor has made the required initial Appointments of Employees and Contractors.

22.4.2.1.3. The Client has approved the Principal Contractor's project Health and Safety Plan.

22.4.2.1.4. The Principal Contractor has set up his Health and Safety File.

22.4.3. C.03 - Principal Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations. (Month (Mth))

22.4.3.1. The amount shall represent full compensation for that part of the Principal Contractor's general obligations in terms of the Occupational Health and Safety Act and Regulations which are mainly a function of time.

22.4.3.2. Payment will be made when the Client's Agent has verified the Principle Contractor's compliance as part of the audit.

22.4.3.3. This will include the updating and administration of the Health and Safety file.

22.4.4. C.04 - Provision of Personal Protective Equipment (PPE) as listed in the Bill of Quantities. (Number (No))

22.4.4.1. The rates for these items shall include for the procurement, delivery, storage, distribution and all other actions required for the supply of PPE to the employees of the Principle Contractor, full or part time, requiring them.

22.4.4.2. Subcontractors are responsible for their own costs in this regard.

22.4.4.3. Any items of PPE not included on the list will be paid for only after the Engineer has agreed to their acquisition.

22.4.4.3.1. Items listed will include, among others which may be noted, are: hard hats, reflective vests, reflective bibs, high visibility overalls, protective foot wear, fall arrestor harness and tethers, gloves, ear muffs, earplugs and dust masks of appropriate type.

22.4.4.3.2. Normal items such as standard overalls, waterproof clothing, gum boots and standard workshop safety equipment such as welding masks and goggles will not be paid for.

22.4.4.4. Payment will be based on the issues register for PPE as kept by the Construction Health and Safety Officer, backed up by paid invoices if requested.

22.4.4.5. Contractor to make provision for fall arrest / fall protection equipment when height work / roof work is being done. Boards to be layed on the area where employees will be working. The provision of a life line and safety harnesses. Safety access to the specific height for employees.

22.4.5. C.05 - Provision of Part Time Construction Health and Safety Officer (Month)

22.4.5.1. The Tender sum shall include for the cost of a Construction Health and Safety Officer on a fulltime if the Client should allow a part-time CHSO the amount tendered will be prorated according to the amount of time spent on the project.

22.4.6. C.06 - Costs of Medical Surveillance (Unit (No))

22.4.6.1. This item shall cover all costs in involved in the obtaining of baseline medical examinations of temporary labour, including operators for mobile plant as contemplated in CR 21(d) (ii); for temporary workers and workers exposed to noises at or above the limits given in the Noise-induced Hearing Loss regulations, as stipulated.

22.4.6.2. Workers in the permanent employ of the Contractor will only be paid for if their certificates require updating.

22.4.6.3. **C.06 a)** Initial (baseline) medical examinations, including audiometric and lung function testing.

22.4.6.4. C.07 - Induction Training (Unit (No))

22.4.6.4.1. This item shall cover all costs incurred for the health and safety inductions as set out on Regulation 7 of the Construction regulations and the proof of induction required.

22.4.6.4.2. Payment will be made on the figures contained in the induction section of the Health and Safety File.

22.4.6.5. C.08 - Provision of First Aid Boxes. (Unit (No))

22.4.6.5.1. The rate for this item shall cover all costs incurred in the provision and maintaining of first aid boxes as outlined in Paragraph 7 above.

22.4.6.6. C.09) Establishment of noise levels (Unit (No))

22.4.6.6.1. This item shall cover all costs involved in the establishment of noise zones, including any workshops, in terms of Regulation 9 of the Noise-induced Hearing Loss Regulations.

22.4.6.6.2. Where a zone has previously been established for a particular item of plant within the last two years, the test need not be repeated but must be kept valid for the duration of the Contract.

22.4.6.7. C.10 - Submission of the Health and Safety File. (Lump Sum)

22.4.6.7.1. Expenditure under this item shall be made in accordance with the general conditions of contract.

22.4.6.7.2. This amount will be paid only once the Principal Contractor has met all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and has submitted his Health and Safety File complete as envisaged on this specification to the Client's satisfaction.

22.4.6.7.3. This must be done prior to the issue of a Certificate of Completion

RESPONSIBILITY	SIGNATURE	DATE
H&S AGENT SIGNATURE:		
CLIENT SIGNATURE:		

ANNEXURE A

CLOSE OUT REQUIREMENTS

The H&S files for the Principal Contractors and all Contractors require closure and handover to the Client at the completion of the project. The following list is an example of what should be included, but is not exhaustive. The OHS Agent or the Client may require further information at the time of completion and the Principal Contractor is to ensure that all instructions are met. Documentation would include all records from the start of the project. Daily or monthly plant inspection records are not required unless they are related to an accident. All records to be in electronic format and submitted to the OHS agent for approval in adequately formatted lists and folders. Layout should be logical and in the same order as in the site files.

Health and Safety close out file requirements include:

- a) Client H&S Specification
- b) Principal Contractor's OHS Plan(s)
- c) Organograms
- d) Legal Appointments
- e) List of all employees employed on a permanent or contractual basis over the duration of the contract
- f) Notification to Department of Labour of commencement of work
- g) Letters of Good Standing for the Project
- h) Full files for all Contractors as well as their close out reports
 - List of Contractors
 - All employees employed on a permanent or contractual basis over the duration of the contract
 - Letters of Approval of Contractors
 - Mandatary Agreements
 - Letters of Good Standing
 - Appointments
- i) Incident Records
- j) Non- Conformance records
- k) Agent's Audits
- l) Method Statements
- m) Risk assessments
- n) Safe work procedures
- o) Medical surveillance certificates of fitness. Medical records are to be kept according to the OH&S Act as amended
- p) All drawings for temporary structures (suspended beams/scaffolds etc.)

- q) All operating manuals for any systems that require on-going maintenance
- r) Copies of test results, policies and procedures for environmental monitoring (silica, noise, dusts etc.)

Defect and Liability Period

The H&S files are to be kept 'live' for the defect and liability period by the Principal Contractor, including those of their Sub-Contractors. Any work required during the defect and liability period will require an assessment of the H&S file by the OH&S Agent prior to any work commencing.

A copy of drawing records for the as-built drawings are to be placed on file by the Designers once complete.

ANNEXURE B

NON-CONFORMANCES

HEALTH AND SAFETY SITE INSPECTION		
NON-CONFORMANCE NO		
AGENT:	PROJECT:	
Consultant:	Date and time:	
Client	Area:	
Contractor:		
ASPECTS NOTED:	COMMENTS:	COMPLETION REQUIRED BY (DATE):
	•	
	•	
	•	
	•	
	•	
PHOTOGRAPHIC EVIDENCE (if available):		
OTHER:		
The following penalties are to be applied:		
Signature of H&S Officer/		
Signature: of H&S Agent		

ANNEXURE C:

CONTRACTORS MONTHLY HEALTH AND SAFETY REPORT

(To be submitted by the end of the first week of each month and be available with each audit)

	CONTRACT NUMBER:	PROJECT NAME:	CONTRACT DETAILS:
1	GENERAL ACTIVITIES FOR THE MONTH (detail each area of work)		
2	NUMBER OF WORKERS (permanent and local, contractors)		
3	TRAINING DONE (supplier, no of people, type)		
4	INCIDENTS / ACCIDENT (list number and details, attach reports)		
6	NON-CONFORMANCES (closed out or active)		
7	CONTRACTORS (list, approval status)		
8	AUDITS COMPLETED (internal and external)		
9	CRITICAL ISSUES		

10	GENERAL	

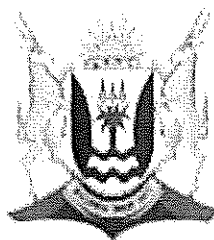
Health and Safety Officer: _____ Signature: _____

Date: _____

Construction Manager: _____ Signature: _____

Date: _____

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH
HIV/AIDS SPECIFICATION & REQUIREMENTS



PROVINCE OF THE EASTERN CAPE
DEPARTMENT OF HEALTH

Project title:	CANZIBE HOSPITAL PHASE 2: UPGRADING OF STAFF ACCOMMODATION
Bid No:	SCMU3-17/18-0337-HO

HIV/AIDS SPECIFICATION & REQUIREMENTS

September 2016

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH
HIV/AIDS SPECIFICATION & REQUIREMENTS



SECTION

HIV/AIDS SPECIFICATION

HIV/AIDS REQUIREMENTS

1 SCOPE

This specification contains all requirements applicable to the Contractor for creating HIV/AIDS awareness amongst all of the Workers involved in this project for the duration of the construction period, through the following strategies:

- Raising awareness about HIV/AIDS through education and information on the nature of the disease, how it is transmitted, safe sexual behaviour, attitudes towards people affected and people living with HIV/AIDS, how to live a healthy lifestyle with HIV/AIDS, the importance of voluntary testing and counselling, the diagnosis and treatment of Sexually Transmitted Infections and the closest health Service Providers;
- Informing Workers of their rights with regard to HIV/AIDS in the workplace;
- Providing Workers with access to condoms and other awareness material that will enable them to make informed decisions about sexual practices.

2 DEFINITIONS AND ABBREVIATIONS

2.1 Definitions

Service Provider: The natural or juristic person recognised and approved by the Department of Public Works as a specialist in conducting HIV/AIDS awareness programmes.

Service Provider Workshop Plan: A plan outlining the content, process and schedule of the training and education workshops, presented by a Service Provider which has been approved by the Representative/Agent.

Worker: Person in the employ of the Contractor or under the direction or supervision of the Contractor or any of his Sub-contractors, who is on site for a minimum period of 30 days in all.

2.2 Abbreviations

- HIV : Human Immunodeficiency Virus.
- AIDS : Acquired Immune Deficiency Syndrome.
- STI : Sexually Transmitted Infection.

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH



HIV/AIDS SPECIFICATION & REQUIREMENTS

3 BASIC METHOD REQUIREMENT

3.1 The Contractor shall, through a Service Provider, conduct onsite workshops with the Workers.

The Service Provider shall develop and compile a Service Provider Workshop Plan to be presented at the workshops and which will be best suited for this project to achieve the specified objectives with regard to HIV/AIDS awareness.

The Service Provider Workshop Plan shall be based on the following information provided by the Contractor:

- Number of Workers and Sub-contractors on site;
- When new Workers or Sub-contractors will join the construction project;
- Duration of Workers and Sub-contractors on site;
- How the maximum number of Workers can be targeted with workshops;
- How the Contractor prefers workshops to be scheduled, e.g. three hourly sessions per Worker, or one 2.5 hour workshop per Worker;
- Profile of Workers, including educational level, age and gender (if available);
- Preferred time of day or month to conduct workshops;
- A Gantt chart reflecting the construction programme, for scheduling of workshops;
- Suitable venues for workshops.

The Contractor shall submit the Service Provider Workshop Plan for approval within 21 days after the tender acceptance date. After approval by the Representative/Agent, the Contractor shall make available a suitable venue that will be conducive to education and training.

3.2 The Service Provider Workshop Plan shall address, but will not be limited to the following:

- 3.2.1 The nature of the disease;
- 3.2.2 How it is transmitted;
- 3.2.3 Safe sexual behaviour;
- 3.2.4 Post exposure services such as voluntary counselling and testing (VCT) and nutritional plans for people living with HIV/AIDS;
- 3.2.5 Attitudes towards other people with HIV/AIDS;
- 3.2.6 Rights of the Worker in the workplace;
- 3.2.7 How the Awareness Champion will be equipped prior to commencement of the HIV/AIDS awareness programme with basic HIV/AIDS information and the necessary skills to handle questions regarding the HIV/AIDS awareness programme on site sensitively and confidentially;
- 3.2.8 How the Service Provider will support the Awareness Champion;
- 3.2.9 Location and contact numbers of the closest clinics, VCT facilities, counselling services and referral systems;
- 3.2.10 How the workshops will be presented, including frequency and duration;
- 3.2.11 How the workshops will fit in with the construction programme;
- 3.2.12 How the Service Provider will assess the knowledge and attitude levels of attendees to structure workshops accordingly;
- 3.2.13 How the video will be used;
- 3.2.14 How the Service Provider will elicit maximum participation from the Workers; 3.2.15 A questions and answers slot (interactive session).

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HIV/AIDS SPECIFICATION & REQUIREMENTS

The Service Provider Workshop Plan shall encompass the Specific Learning Outcomes (SLO) as stipulated.

4 HIV/ AIDS AWARENESS EDUCATION AND TRAINING

4.1 Workshops

The Contractor shall ensure that all Workers attend the workshops.

The workshops shall adequately deal with all the aspects contained in the Service Provider Workshop Plan. A video of HIV/AIDS in the construction industry, which can be obtained from all Regional Offices of the Department of Public Works, is to be screened to Workers at workshops. In order to enhance the learning experience, groups of not exceeding 25 people shall attend the interactive sessions of the workshops.

4.2 Recommended practice

4.2.1 Workshop Schedule

Presenting information contained in the Service Provider Workshop Plan can be divided in as many workshop sessions as deemed practicable by the Contractor, provided that all Workers are exposed to all aspects of the workshops as outlined in the Service Provider Workshop Plan.

Breaking down the content of information to be presented to Workers into more than one workshop session however, has the added advantage that messages are reinforced over time while providing opportunity between workshop sessions for Workers to reflect and test information. Workers will also have an opportunity to ask questions at a following session.

4.2.2 Service Providers

A database of recommended Service Providers is available from all Regional Offices of the Department of Public Works.

4.2.3 HIV/AIDS Specific Learning Outcomes and Assessment Criteria

Workers shall be exposed to workshops for a minimum duration of two-and-a-half hours. In order to set a minimum standard requirement, the following specific learning outcomes and assessment criteria shall be met.

4.2.3.1 UNIT 1: The nature of HIV/AIDS

After studying and understanding this unit, the Worker will be able to differentiate between HIV and AIDS and comprehend whether or not it is curable. The Worker will also be able to explain how the HI virus operates once a person is infected and identify the symptoms associated with the progression of HIV/AIDS.

Assessment Criteria:

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HIV/AIDS SPECIFICATION & REQUIREMENTS

1. Define and describe HIV and AIDS;
2. List and describe the progression of HIV/AIDS.

4.2.3.2 UNIT 2: Transmission of the HI virus

After studying and understanding this unit, the Worker will be able to identify bodily fluids that carry the HI virus. The Worker will be able to recognise how HIV/AIDS is transmitted and how it is not transmitted.

Assessment Criteria:

1. Record in what bodily fluids the HI virus can be found;
2. Describe how HIV/AIDS can be transmitted;
3. Demonstrate the ability to distinguish between how HIV/AIDS is transmitted and misconceptions around transmittance of HIV/AIDS.

4.2.3.3 UNIT 3: HIV/AIDS preventative measures

After studying and understanding this unit, the Worker will comprehend how to act in a way that would minimise the risk of HIV/AIDS infection and to use measures to prevent the HI virus from entering the bloodstream.

Assessment Criteria:

1. Report on how to minimise the risk of HIV/AIDS infection;
2. Report on precautions that can be taken to prevent HIV/AIDS infection;
3. Explain or demonstrate how to use a male and female condom;
4. List the factors that could jeopardize the safety of condoms provided against HIV/AIDS Transmission.

4.2.3.4 UNIT 4: Voluntary HIV/AIDS counselling and testing

After studying and understanding this unit, the Worker will be able to recognise methods of testing for HIV/AIDS infection. The Worker will be able to understand the purpose of voluntary HIV/AIDS testing and pre- and post-test counselling.

Assessment Criteria:

1. Describe methods of testing for HIV/AIDS infection;
2. Report on why voluntary testing is important;
3. Report on why pre- and post-test counselling is important.

4.2.3.5 UNIT 5: Living with HIV/AIDS

After studying and understanding this unit, the Worker will be able to recognise the importance of caring for people living with HIV/AIDS and be able to manage HIV/AIDS.

Assessment Criteria:

1. List and describe ways to manage HIV/AIDS;
2. Describe nutritional needs of people living with HIV/AIDS;
3. Describe ways to embrace a healthy lifestyle as a person living with HIV/AIDS;
4. Explain the need for counselling and support to people living with HIV/AIDS.

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH
HIV/AIDS SPECIFICATION & REQUIREMENTS



4.2.3.6 UNIT 6: Treatment options for people with HIV/AIDS

After studying and understanding this unit, the Worker will be familiar with the various treatments available to HIV/AIDS infected or potentially HIV/AIDS infected people.

Assessment Criteria:

1. Discuss anti-retroviral therapy;
2. List methods of treatment to prevent HIV/AIDS transmission from mother-to-child;
3. Describe the need for treatment of opportunistic diseases for people living with HIV/AIDS;
4. Describe post exposure prophylactics.

4.2.3.7 UNIT 7: The rights and responsibilities of Workers in the workplace with regard to HIV/AIDS

After studying and understanding this unit, the Worker will be able to identify the rights and responsibilities of the Worker living with HIV/AIDS in the workplace. The Worker will recognise the importance of accepting colleagues living with HIV/AIDS and treating them in a non-discriminative way.

Assessment Criteria:

1. Discuss the rights of a person living with HIV/AIDS in the workplace;
2. Discuss the responsibilities of a person living with HIV/AIDS in the workplace;
3. Report on why acceptance and non-discrimination of colleagues living with HIV/AIDS is important.

4.3 Displaying of plastic laminated posters and distribution of information booklets

The Contractor shall obtain a set of four laminated posters conveying different key messages and information booklets. The contractor should include the costs of posters and information booklets in his/her tender price.

The above-mentioned posters and information booklets have been prepared to raise awareness and to share information about HIV/AIDS and STI's.

Posters or display stands shall be displayed on site as soon as possible, but not later than 14 days after the date of site handover.

Posters shall be displayed in areas highly trafficked by Workers, including toilets, rest areas, the site office and compounds.

The posters on display must always be intact, clear and readable.

Information booklets must be distributed to all Workers as soon as possible, but not later than 14 days after site handover, or as soon as the Worker joins the site.

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH



HIV/AIDS SPECIFICATION & REQUIREMENTS

5 PROVIDING WORKERS WITH ACCESS TO CONDOMS

The Contractor shall provide and maintain condom dispensers and make both male and female condoms, complying with the requirements of SABS ISO 4074, available at all times to all Workers at readily accessible points on site, for the duration of the contract. The Contractor may obtain condom dispensers from the Department of Health and condoms may be obtained from the Local Clinic or the Department of Health.

At least one male and one female condom dispenser and a sufficient supply of condoms, all to the approval of the Representative/Agent, shall be made available on site within 14 days of site hand over. Contractors should note that arrangements to obtain condoms from the Department of Health Clinics prior to site hand over may be necessary, to ensure that condoms are available within 14 days of site handover.

Condoms shall be made available in areas highly trafficked by Workers, including toilets, the site office and compounds.

6 ENSURING ACCESS TO HIV/AIDS TESTING AND COUNSELLING FACILITIES AND TREATMENT OF SEXUALLY TRANSMITTED INFECTIONS (STI)

The Contractor shall provide Workers with the names of the closest Service Providers that provide HIV/AIDS testing and counselling and Clinics providing Sexually Transmitted Infection (STI) diagnosis and treatment. Information on these Service Providers and Clinics must be displayed on a poster of a size not smaller than A1 in an area highly trafficked by Workers.

7 APPOINTMENT OF AN HIV/AIDS AWARENESS CHAMPION

- 7.1 Within 14 days of site handover the Contractor shall appoint an Awareness Champion from amongst the Workers, who speaks, reads and writes English, who speaks and understands all the local languages spoken by the Workers and who shall be on site during all stages of the construction period. The Contractor shall ensure that the Awareness Champion has been trained by the Service Provider on basic HIV/AIDS information, the support services available and the necessary skills to handle questions regarding the HIV/AIDS programme in a sensitive and confidential manner.

- 7.2 The Awareness Champion shall be responsible for:

- 7.2.1 Liaising with the Service Provider on organising awareness workshops;
- 7.2.2 Filling condom dispensers and monitoring condom distribution;
- 7.2.3 Handing out information booklets;
- 7.2.4 Placing and maintaining posters.

8 MONITORING

The Contractor shall grant to the Representative/Agent reasonable access to the construction site, in order to establish that the Contractor complies with his obligations regarding HIV/AIDS awareness under this contract.

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH**HIV/AIDS SPECIFICATION & REQUIREMENTS**

The Contractor must report problems experienced in implementing the HIV/AIDS requirements to the Representative/Agent.

The attached SITE CHECKLIST (SCHEDULE A) shall be completed and submitted at every construction progress inspection to the Representative/Agent.

The attached SERVICE PROVIDER REPORT (SCHEDULE B) shall be completed and submitted on a monthly basis to the Department's Project Manager, through the Representative/Agent.

The attached CONTRACTOR HIV/AIDS PROGRAMME REPORT (SCHEDULE C), a close out programme report, shall be completed by the Contractor at the end of the contract.

SCHEDULE A: HIV/AIDS PROGRAMME: SITE CHECKLIST

Date of commencement of construction: _____ Name of Departmental Project Manager: _____

Please refer to HIV/AIDS Programme activities during the reporting period

DATE		PI			PI			PI			PI			PI			PI		
		D	D	M	D	D	M	D	D	M	D	D	M	D	D	M	D	D	M
Programme implemented within 14 days of site handover																			
Awareness champion on site																			
HIV/AIDS awareness service provider report																			
Male condom dispenser																			
Sufficient male condoms available																			
Male condom dispenser in a highly trafficked area																			
Female condom dispenser																			
Sufficient female condoms available																			
Female condom dispenser in a highly trafficked area																			
All four types of posters displayed																			
Posters in a good condition																			
Posters in a highly trafficked area																			
Posters displayed on local support services: clinic & VCT centre																			
Support service poster/s in highly trafficked area																			
Support service poster/s in a good condition																			

SCHEDULE A

Page 1 of 3

SCHEDULE A

Please indicate the applicable number for the reporting period									
Workers on payroll (at PI)									
Sub-Contractors who will be on site for longer than 30 days (at PI)									
Workshop attendees									
Number of workshops held									
Scheduled workshops according to approved workshop plan									
Booklets distributed									
Male condoms distributed									
Female condoms distributed									

Representative/Agent

Date

Contractor

Date

SCHEDULE A

SCHEDULE A

Date of progress inspection: (ccyy/mm/dd)

Reporting period: (ccyy/mm/dd) _____ to (ccyy/mm/dd) _____

Deviations from HIV/AIDS awareness programme plan:

Corrective actions:

Representative/Agent

Departmental Project Manager

Date

Date

SCHEDULE A

SCHEDULE B

HIV/AIDS AWARENESS PROGRAMME: SERVICE PROVIDER REPORT

Reporting period: (ccyy/mm/dd) _____ to (ccyy/mm/dd) _____

Number of workshops conducted in reporting period: _____

Number of scheduled workshops according to approved workshop plan: _____

Deviations from workshop plan:

State reasons for deviating from workshop plan:

Corrective actions:

Service Provider _____

Date _____

Date _____

SCHEDULE B

Page 1 of 3

HIV/AIDS AWARENESS PROGRAMME : WORKSHOP CONTENT ADDRESSED

DATE		W/S							W/S							W/S							W/S								
		D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D
Content of workshop: (Mark the content included)																															
SLO1																															
SLO2																															
SLO3																															
SLO4																															
SLO5																															
SLO6																															
SLO7																															
HIV/AIDS in construction video																															
Indicate the duration of the workshop in hours																															
Total number of Workers																															
Indicate workshop venue																															

HIV/AIDS AWARENESS PROGRAMME: ATTENDANCE REGISTER

[illegible]

SCHEDULE C

CONTRACTOR HIV/AIDS PROGRAMME REPORT

Project name: _____

Project Location: _____

Contract value of project: R_____

Department of Public Works Project Manager: _____

HIV/AIDS Programme duration: (ccyy/mm/dd) _____ to (ccyy/mm/dd) _____

AWARENESS MATERIAL

Describe location of posters displayed during the programme: _____

Comments on posters: _____

Indicate total number of booklets distributed: _____

Comments on booklets: _____

CONDOMS

Indicate total number of male condoms distributed: _____

Indicate total number of female condoms distributed: _____

Describe where male condom dispenser was placed: _____

Describe where female condom dispenser was placed: _____

HIV/AIDS WORKSHOPS

Indicate the total number of HIV/AIDS workshops conducted: _____

Indicate the duration of workshops: _____

Indicate the total number of Workers that participated in the HIV/AIDS workshops: _____

Indicate the total number of Workers that were exposed to the video on HIV/AIDS in the Construction Industry:

Comments on HIV/AIDS workshops on site: _____

GENERAL

Briefly describe programme activities and satisfaction with outcome: _____

Additional comments, suggestions or needs with regard to the HIV/AIDS awareness programmes on site:

Please indicate if your company has a formal HIV/AIDS policy focussing on HIV/AIDS awareness raising and care and support of HIV/AIDS Workers:

Yes	No	Currently developing one
-----	----	--------------------------

Please indicate if, to your knowledge, you have lost any workers during the duration of the project to HIV/AIDS related sicknesses. One or more of the following might indicate an HIV/AIDS related death:

Excessive weight loss
Reactive TB
Hair loss
Severe tiredness

Coughing or chest pain
Pain when swallowing
Persistent fever
Diarrhoea

Vomiting
Meningitis
Memory loss
Pneumonia

Contractor

Date

Departmental Project Manager

Date

CONTRACTOR MONTHLY REPORT**PART 1**

Project No.

Project Name:

Contract No.

Contractor Name:

Claim No.

For Period Ending:

Date of Report:

The Contractors Monthly Report comprises an integral part of the Contractors Payment Claim and processing of the payment claim is not permitted without this report also being submitted i.e. "NO REPORT - NO PAYMENT".

Attachments:

Part 2 Overall Project Worker Schedule: Schedule of all local labourers employed since

Part 3 Weekly Task Wage Register

Part 4 Local Labour Schedule

- When contractors recruit local labourers, they must procure a 13 digit identity document and a certified copy
 - At least one disabled person must be recruited and employed on the project.
 - A daily attendance register should be kept
 - Each beneficiary must sign the payment sheet. as proof that they have been
- Employment of local labour should include the following:
- 55% women
 - 55% young people

PART 2

Month of Report:

Sheet Of

[illegible]

Completed by: Name: Signature: Capacity Date:

PART 3

Contract No.

Project No.

Week Ending:

Project Name:

Sheet Of

[illegible]

(A)

(B)

Completed by: Name:

Signature:

Capacity

Date:

LOCAL LABOUR AND MATERIAL SCHEDULE

PART 4

Contract No. Date of Report:
 Project No. Project Name:
 Claim No. For Period Ending:
 Contractor Name:

1. Summary of Day Tasks worked and Amount Spent on Local Labour this month

Week No.	Week Ending	Total Day Tasks / Person Days Worked	Total Amount Paid
		(Total of (A) from Form 4 for each week)	(Total of (B) from Form 4 for each week)
1			R
2			R
3			R
4			R
5			R
6			R
7			R
8			R
9			R
Total			R

Transfer to 2 in table below

2. Summary of Amount Spent on Local Labour to date

1. Previous Amount Spent on Local Labour (From previous claim)	R
2. Amount Spent on Local Labour this Month (From Total above)	R
3. Total Amount Spent on Local Labour to date (3) = (1+2)	R

3. Local Labour Schedule

Summary of Local Labour Employed	No. of local workers who worked on the project to date (Form Part 2)	% of Total
Columns refer to Columns in Part 2		
1. Total No. of individual local workers who have worked on the Project (Column N)		100%
2. How many of the Total No. are local youth (25 yrs and under) (Column B & D)		
3. How many of the Total No. are local women (Column A & B)		

4. Summary of Amount Spent on Material to Date (Cumulative)

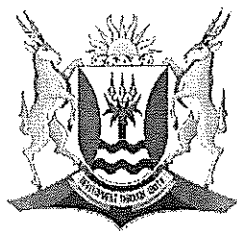
Item	This Month	Total to date
1. Material from Local Municipality		
2. Material from District Municipality		
3. Material from Outside the Eastern Cape		
4. Material from other areas within the Eastern Cape		
Total Material		
Total material as percentage of contractor expenditure		
Total as percentage of contractor budget		

5. Training of Local Workers

Catogory of training	Name of course	No. trained	Days trained	Comments on progress
(a) Technical training for implementation	Bricklaying Caprpentry			
	Plumbing			
	Fencing			
	Plastering			
	Painting			
	House Building			
	Handyman			
	Electrical			
(b) Institutional training for local management beyond construction				
(c) Technical training for OMM				
(d) Institutional training for implementation				
(e) HIV /Aids etc.				
Other - Please specify				
Total				

Completed by:
 Name Signature Capacity Date

C3.6 SOCIO ECONOMIC DEVELOPMENT & TRANSFORMATION



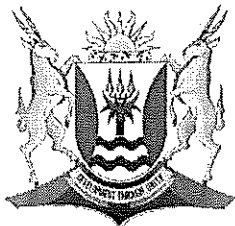
Eastern Cape Provincial Government:

Department of Health

FACILITY MANAGEMENT AND MAINTENANCE MANAGEMENT

BID SPECIFICATION: FOR ENTERPRISE & SOCIO-ECONOMIC DEVELOPMENT PROGRAMME (BS-ESED-P)

[FOR CIDB GRADE 6 – 9 CONTRACTS]
REFERED TO AS LARGE CONTRACTS (LCs)

<p>FACILITY MANAGEMENT AND MAINTENANCE MANAGEMENT</p> <p>BID SPECIFICATION FOR ENTERPRISE & SOCIO-ECONOMIC DEVELOPMENT PROGRAMME (BS-ESED-P) [FOR CIDB GRADE 6 - 9 CONTRACTS] JUNE 2017</p>	
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Status: FINAL

Approved by (name):	Position	Signature	Date
Mr S. Kubashe	SFMC – ESED Specialists		
Mr H. Schwenk	SFMC – Programme Director		
Mr M. Tuswa	EC DoH – General Manager		

Status: Final

Revision 01 Date: 03rd October 2017

1. BACKGROUND

C3.6 ADVANCEMENT OF SOCIO ECONOMIC DEVELOPMENT & TRANSFORMATION THROUGH EC DoH INFRASTRUCTURE PROJECTS

The Eastern Cape Department of Health (EC DoH), referred to hereinafter as the Client, is embarking on a programme to develop its infrastructure supplier capacity whilst advancing socio economic development and transformation in the health sector across the Eastern Cape Province, informed by:

1.1 EC DoH Infrastructure Procurement Policy

Chapter 9 of this policy deals with Usage of Procurement Procedures of which item 9.2 deals with Secondary Objectives (Development) procurement policy on:

- Emerging Contractor
- Skills Development through Construction Contracts for Individuals
- Previously Disadvantaged Professional Service Providers (PSPs)
- Empowerment of Local Industries

1.2 EC Treasury Instruction Note No. 007 of 2016/17

- In the main, it deals with 50% of Provincial procurement spend should be on goods and services which are manufactured and supplied by SMMEs and Co-operatives from within the Province, including the utilisation of raw materials.
- It also propose LED Strategies from,
 - Supplier Development and Capacitation Interventions
 - Procurement Specific Support Strategies
 - Procuring from National Contracts
 - Goods and Services sourced from suppliers outside the Province
 - Use of Cooperatives
 - Local Labour Contracting
 - Break-out Procurement
 - Collaborations with National Departments and State Owned Entities (SOEs)
- Its framework gives guidance to number of intervention including Geographical Procurement Hierarchy Flow from, Ward, Local Municipality, District Municipality, Province then National.

1.3 New Preferential Procurement Framework of January 2017

In the main, the regulation and framework deals with the following changes:

- Preference procurement points of 80/20 up to goods and services estimated to R50m.
- Pre-qualification criteria for preferential procurement.
- 30% Sub-contracting to EMEs and QSEs as a condition to tenders above R30m

1.4 CIDB Practice Note 10

This practice note, version 1 of February 2008, deals with Attaining Social and Economic Deliverables which are more on Local Labour and Business Training and Development.

1.5 CIDB Practice Note 29

This CIDB Practice Note give guidance on Allocating Sustainable Work Opportunities to Contractor Development Programmes

1.6 CIDB National Contractor Development Framework

In the main, NCDF objective is to promote equity ownership across the different contracting categories and grades, as well as improving skills and performance in the delivery and maintenance of capital works across the public sector. To achieve this objective, it is envisage that participants within the National Contractor Development Programme will:

- Increase the number of black, women, disabled and youth owned companies across sectors and grades.
- Improve the grading status of previously disadvantaged contractors in targeted categories and grades.
- Improve the performance of previously disadvantaged contractors in terms of quality, employment practices, skills development, safety, health and the environment.
- Improve the business management and technical skills of these contractors.

2. INTRODUCTION

The client has therefore placed a number of contractual obligations on Sakhiwo Facilities Management Consortium and Contractors in fulfilling the above objectives.

It is the desire of the Client that, development practices, procedures and processes that are implemented within the project are uniform and of the highest possible standard. The objective of this approach is to promote an environment that is healthy, safe, efficient, productive, harmonious, is free of disruption and localises opportunities for communities in close proximity to the project. Such an environment will assist Contractors in implementing their projects successfully. All contractors, sub-contractors (including SMMEs) and site service providers within the project have a role and responsibility in achieving this objective, and accordingly, the Main Contractor is wholly responsible for ensuring the provision, implementation and maintenance of the required socio-economic deliverables.

To this end, the client has appointed a Facilities Management Consortium to make sure necessary mechanisms and structures are put in place, to ensure all role-players in the project are aware of the socio-economic including local labour and business requirements and obligations that are contractually binding and that these are properly implemented and complied with.

A key component of the socio-economic requirements and obligations is the proper and timely completion of Standard Labour and Business Documentation and the provision of opportunities to local community members. The formats of the Standard Labour Documentation and the support services will be made available in the contract commencement meeting.

The documentation included in specifications outlined below will provide detail to the prospective contractor in order to ensure a comprehensive understanding of the socio-economic specifications including Management protocols in effect, and allows for the prospective Contractor to tender accordingly.

The services of the procured Facility Management Services Provider is inclusive of Socio Economic Development and Transformation Specialist who will have to establish both Labour and Business Desk to manage this aspect. The following steps are key to the success of this socio economic development and transformation programme and is to be followed according.

- 2.1 EPP : ESED Programme Planning
- 2.2 PES : Programme Environmental Scan
- 2.3 EPM : ESED Programme Mobilisation
- 2.4 TDS : Training, Development & Support
- 2.5 PME : Programme Monitoring & Evaluation
- 2.6 PCR : Programme Close-out Report

3. DEVELOPMENT FRAMEWORK

Informed by Construction Industry Development Board (CIDB) Practice Note #10, the following areas will be maximised for Eastern Cape Health Infrastructure Delivery Capacity Development while advancing socio economic development and transformation in the health infrastructure sector.

- | | |
|---|--|
| A Employment of Local Resources | A1 Provide Employment Opportunities to targeted local labour.
A2 Investigate and Utilise Local Resources. |
| B Employment Opportunities in Labour Intensive Works | B1 Provide Employment and Skills Development Opportunities to targeted labour. |
| C Business Opportunities | C1 Provide Business Opportunities for Targeted Local Enterprises
C2 Encourage procurement of Sub-Contractors for defined portions of the contracts in terms of specified procedures. |
| D Enterprise Support and Development Programmes | D1 Provide third party management support services to targeted local contractors. (BUSINESS DEVELOPMENT DESK RESPONSIBILITY)
D2 Procure or manage (or both) mentoring services for targeted local contractors. Technical by Contractor whilst business mentorship is by BDD.
D3 Where possible, Execute the contract in joint venture with targeted local partner.
(LC will prepare development and resources plan for approval by BD Desk) |
| E Skills Development | E1 Provide Experiential work opportunities towards a specified professional registration for designated persons.
E2 Provide Work Learning Opportunities towards a specified degree, diploma or certificate for designated persons.
E3 Provide Experiential Work Opportunities towards a SAQA registered qualification or certificate for designated persons.
E4 Procure and manage a Training Service Provider to provide specific training for designated persons. |
| F HIV/AIDS Awareness | F1 Promote HIV/Aids Awareness to project and surrounding communities. |

4. ROLES AND RESPONSIBILITIES DEFINITION

In mobilising, the client managed to secure the services of specialist maintenance engineers for the purpose of effective and efficient management for the general infrastructure maintenance including plant and machinery of the department of health. Included to the above, is services of Enterprise & Socio-Economic Development Specialists (ESED-S).

It therefore deems it necessary to define roles and responsibilities in accordance to the present institutional arrangement. In the main,

ESED-S will be responsible for supply management including:

- Establishment of Labour Desk for recruitment, training, development and support of Local Labour.
- Establishment of Business Desk for recruitment, training, development and support of Local Businesses.
- Social Facilitation Services which will assist the client to establish the Project Support Committee (PSC).

CONTRACTOR will be responsible for demand management including:

- As it will be the first time for most local in this working environment, the Contractor is required to on a full time basis employ services of the Labour Relation Coordinator or Practitioner depending to the size of project.
- The Contractor to appreciate that, all the development will need a conducive environment of which the site under its management, will have to accommodate and support the development programmes.
- Community Liaising Office Services to assure solid communication between project and community.

The table 1 below therefore illustrate the deliverables including roles and responsibilities for each party in relation with each deliverable. The Bill of Quantities (BoQ) will make provision for each and every deliverable for either be tendered for or allowing a provisional sums.

TABLE 1: SOCIO ECONOMIC DELIVERABLE INCLUDING RELATED ROLES & RESPONSIBLES

CODE	DELIVERABLE	ESED-S	CONTRACTOR	TARGETS
A	Employment of Local Resources	Establish and manage Labour Desk. Liaise with Community through the Labour Desk and supply Contractor's demands. ESED-S to employ services of Social Facilitator	Prepare labour demand schedule and submit to Labour Desk within 21 days from the award. Ensure at least 80% of General Labour is local. Contractor to include CLO & Employment Relations Coordinator on its site resources.	<ul style="list-style-type: none"> • 80% of General Labour to come from Local. • Maximise use of Local Semi and Skilled Labour
B	Employment Opportunities in Labour Intensive Works	Through Value Engineering, advocate for more labour intensive work.	Through methodology, maximise labour intensive work.	N/A
C	Business Opportunities	Establish and manage the Business Desk. Liaise with Community through Business Desk and supply the Contract's demands.	Prepare demand schedule and submit to Business Desk within 21 days from the award. Ensure at least 30% of Work is executed by Local Businesses.	<ul style="list-style-type: none"> • At least 30% of Works for Emerging Local Businesses. • At least 50% of work to be executed EC Businesses.
D	Enterprise Support and Development Programmes	Establish and manage the Enterprise Development and Support Programme. Business Desk be responsible of Off Site Training and Support.	Create a conducive environment for Local Business Development. Contractor be responsible of On site development and support.	<ul style="list-style-type: none"> • Develop Practice Note • Est. Local Database • Compliance Workshop • Mobilisation Support • On Site Mentor & Support • Off Site Mentor & Support incl. up-grading.
E	Skills Development (to include Graduates and Interns)	Through Labour and Business Desks, ESED-S to facilitate both Labour and Business Training.	Contractor to create a conducive environment for Labour and Business Training.	<ul style="list-style-type: none"> • Pre-Assessment of both Labour & Business • Skills Training • Post Assessment
F	HIV/AIDS Awareness	ESED-S to facilitate the HIV/Aids Awareness sessions for both communities and projects.	To avail workforce for the awareness sessions.	<ul style="list-style-type: none"> • Project Awareness Sessions • Community Awareness Sessions

5. IMPLEMENTATION

CIDB GRADE 6 – 9 LARGE CONTRACTORS (LCs)

It is acknowledged that these contracts will be awarded to contractors already declared as Large Contractors (LCs).

5.1.1 The Large Contractor (LC):

- The Large Contractor is to make sure the employment of Local General Labour from the Labour Development Desk to minimum of 80%.
- The Large Contractor informed by EC Treasury Instruction No. 7 of 2016/17, to also make sure that, at least 50% of its procurement spend should be on goods and services which are manufactured and supplied by SMMEs and Co-operatives from within the province, including utilisation of raw materials and plant/equipment.
- The LC Contract, **to make provision for employment of Community Liaison Officer (CLO) for the duration of the Contract**. The monthly remuneration for the CLO will be cap at R6000.00. Such recruitment of CLO will be facilitated by the Social Facilitator from the Labour Development Desk.
- The LC Contract, **to make a provision for health and safety awareness** to be facilitated by LC Contractor on site.
- Contractor on site.
- The QSE Contractor **to make a provision per month per site for the duration of the contract for the Business Development Desk Services attending 1 to 5 SMEs** which includes Management, Administration, Business Mentorship and Support in two (3hr day) site visit a week including attending progress meetings in support of the EME Contractor. This allowance is directly claimable and payable to NEMA – SA every month after producing an invoice with related log-sheet. The claimable scale is as follows:
 - 1 to 5 SME Sub-Contractors R 15 000.00
 - 6 to 10 SME Sub-Contractors R 24 600.00
 - 11 to 15 SME Sub-Contractors R 36 000.00
 - 16 to 20 SME Sub-Contractors R 47 400.00 and prorate for any number of SMEs above 20.
- The Large Contractor is to create an environment including **making a provision for 1, 2, 3 and 4 Graduate(s) for grade 6, 7, 8 and 9** respectively at monthly total cost to company allowance of R7000.00
- The LC Contractor is to create environment including **making a provision for 1, 2, 3 and 4 Intern (s) for grade 6, 7, 8 and 9** respectively at monthly total cost to company allowance of R4000.00.
- The Large Contractor to have as part of its site organogram, an Employment Relations Co-ordinator to support employment of Local Labour on site.
- The Large Contractor to make sure a minimum of 30% of the contract is sub-contracted to Local Businesses available from Business Development Desk Database.
- The 50% of its procurement spend should be on goods and services which are manufactured and supplied by SMMEs and Co-operatives from within the province, including utilisation of raw materials and plant/equipment.
- The Large Contract **to make a provision for the recruitment and employment of the technical mentor**, an experienced technical person not less than General Foreman/Supervisor with at least fifteen years' experience to technically mentor and support the employed local sub-contractors.
- The Large Contractor will be a member of the Project Support Committee (PSC) and will appoint a relevant representatives to attend the monthly and ad hoc meetings with necessary report on Labour and Business Development.

5.1.2 Labour Development Desk (LDD):

- The ESED-S through Labour Development Desk to:
 - To facilitate the Skills Training for 3, 4 and 5 Local Labour per project in this category for Grade 6, 7, 8 and 9 Large Contractors respectively.
 - To supply interns and graduates requested by the LC.
 - To avail the shared Social Facilitation services for all LC Contracts in the District Area.

5.1.3 Business Development Desk (BDD):

- The ESED-S through Business Development Desk to:
 - To facilitate and provide a Business Mentorship and Support to LC Sub-Contractors..
 - To facilitate the skills Training to LC Sub-Contractors.

ESED-S will facilitate and manage the Project Development Meetings.

ESED-S will prepare a monthly report for submission and presentation to Joint Sub-Committee.

PART C2: PRICING DATA

PRICING INSTRUCTIONS – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (March 2005 Edition)

Project title:	CANZIBE HOSPITAL PHASE 2: UPGRADING OF STAFF ACCOMMODATION
Tender No:	SCMU3-17/18-0337-HO

C2.1 Pricing Instructions

- 1 The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work as amended) published and issued by the Association of South African Quantity Surveyors (Sixth Edition (Revised)), 1999. Where applicable the:
 - a) civil engineering work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardised Specifications for Civil Engineering Works.
 - b) mechanical work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardised Specifications for Mechanical Engineering Works.
 - c) electrical work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardised Specifications for Electrical Engineering Works.
- 2 The agreement is based on the JBCC Series 2000 Minor Works Agreement, prepared by the Joint Building Contracts Committee, Edition 4.1, May 2005. The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variables are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 3 Preliminary and general requirements are based on the preliminaries for the use of JBCC Series 2000 – Third Addition – January. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 4 It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards).
- 5 The drawings listed in the Scope of Works used for the setting up of these Bills of Quantities are kept by the Principal Agent or Engineer and can be viewed at any time during office hours up until the completion of the works.
- 6 Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
- 7 The bills of quantities forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, The Standard Conditions of Tender, Conditions of Contract, Specifications, Drawings, "Department of Public Works: Specifications of Materials and Methods to be used – PW371" and all other relevant documentation.
- 8 Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")
- 9 The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminaries) of the Bills of Quantities

Pricing Instructions - JBCC

- 10 The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor's risk.
- 11 The amount of the Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract.
- 12 Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in 10 but taking into account the revised period for completing the works.
- 13 The amount or items of the Preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bills of Quantities:
 - a) an amount which is not to be varied, namely Fixed (F)
 - b) an amount which is to be varied in proportion to the contract value, namely Value Related (V); and
 - c) an amount which is to be varied in proportion to the contract period as compared to the initial construction period excluding revisions to the construction period for which no adjustment to the contractor is not entitled to in terms of the contract, namely Time Related (T).
- 14 Where no provision is made in the Bills of Quantities to indicate which of the three categories in 12 apply or where no selection is made, the adjustments shall be based on the following breakdown:
 - a) 10 percent is Fixed;
 - b) 15 percent is Value Related
 - c) 75 percent is Time Related.
- 15 The adjustment of the Preliminaries shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.
- 16 The tender price must include Value Added Tax (VAT). All rates, provisional sums, etc. in the bills of quantities must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.



C4.1: SITE INFORMATION – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (edition 4.1 of March 2005)

Tender no:

Project title:	CANZIBE HOSPITAL PHASE 2: UPGRADING OF STAFF ACCOMMODATION
Tender No:	SCMU3-17/18-0337-HO

C4 Site Information

Location

The existing Canzibe Hospital Complex in Canzibe

SITE INFORMATION

Site Information

a. IMPROVEMENTS ON SITE

Refer to scope of works

b. RESULTS OF SOIL INVESTIGATIONS

N/A

c. UNDERGROUND SERVICES

Underground services are unknown.

d. ADJACENT BUILDINGS

Prospective bidders must acquaint themselves with the positions and areas of buildings being renovated or newly constructed on site and must take cognisance of the functional buildings adjacent to these areas

e. ENVIRONMENTAL ISSUES

None



Health and Safety

The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No.85 of 1993).

The Health and Safety Specifications as required has been annexed to this document.

This can be priced by the bidder under item C11 of the Preliminaries & General.

HIV / AIDS Awareness

These Bills of Quantities contain items relating to HIV/Aids awareness. Tenderers must take note that compliance with the HIV/Aids awareness programme is compulsory. See item C10 in Preliminaries & General.

Local Labour

It is an expressed condition of this contract **that All general labour shall be local labour (At least 80% of total number of workers shall be local)**

Labour forms shall be submitted to the Principal Agent prior to monthly payment certificates.

The Contractor shall adhere to the statutory minimum wage rates as prescribed by law in The Department of Labour, Basic Conditions of Employment Act, No. 75 of 1997, Sectoral Determination 2 for the Civil Engineering Industry in terms of Section 56(1) of the Basic Conditions of Employment Act, 1997. The Contractor is however at liberty to negotiate additional incentive payments based on performance.

Prospective bidders are to familiarize themselves with the accepted labour cost for the various regions and price accordingly (especially Nelson Mandela Metro Area) as no claims regarding wages disputes shall be entertained in the contract.

Materials to be used for projects

It is an expressed condition of the contract **that 50 % of All materials shall be purchased and procured in the Eastern Cape province**. Proof shall be provided to the Principal Agent on a monthly basis prior to monthly payment certificates.

C5 - DRAWINGS

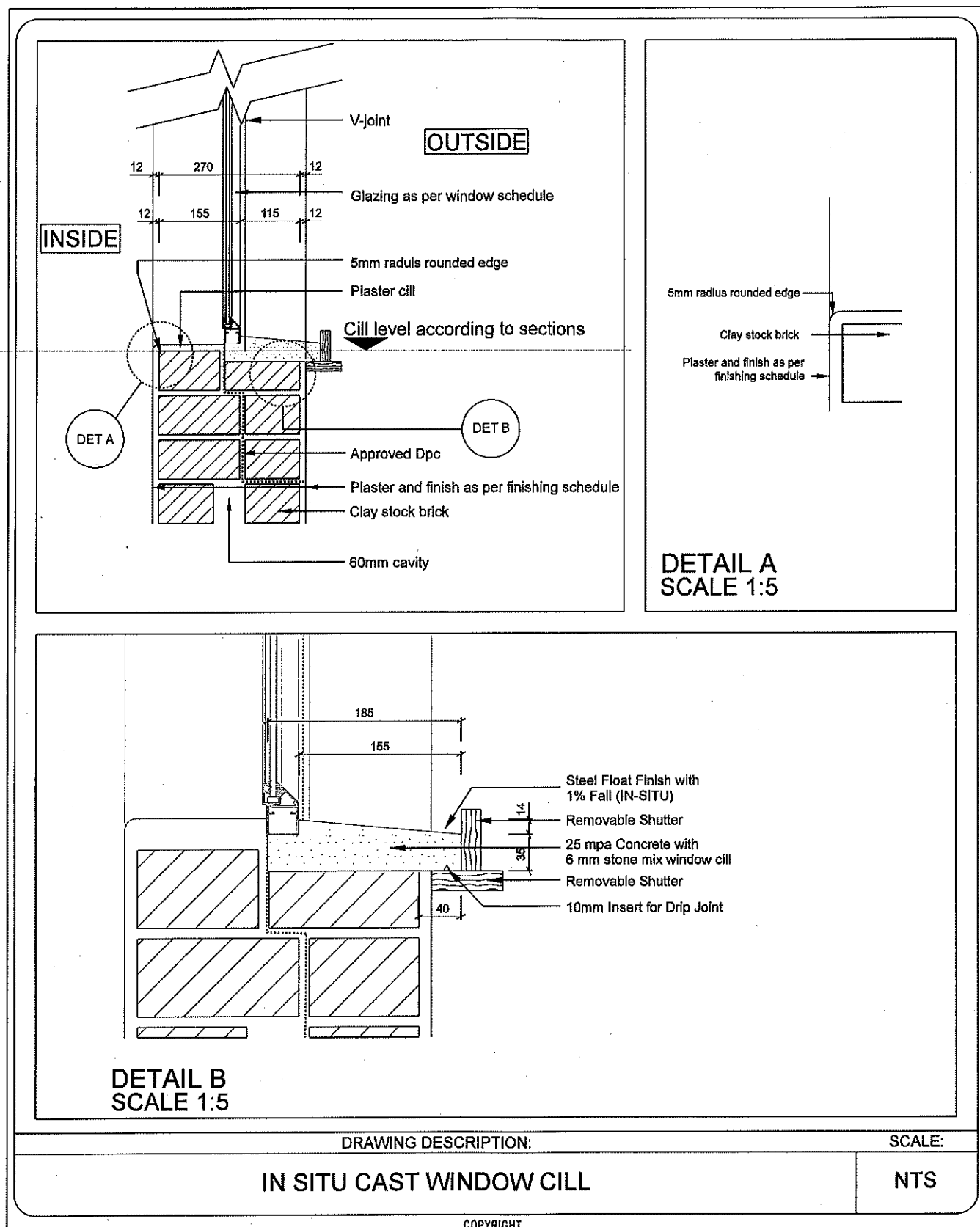


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C5 – DRAWINGS

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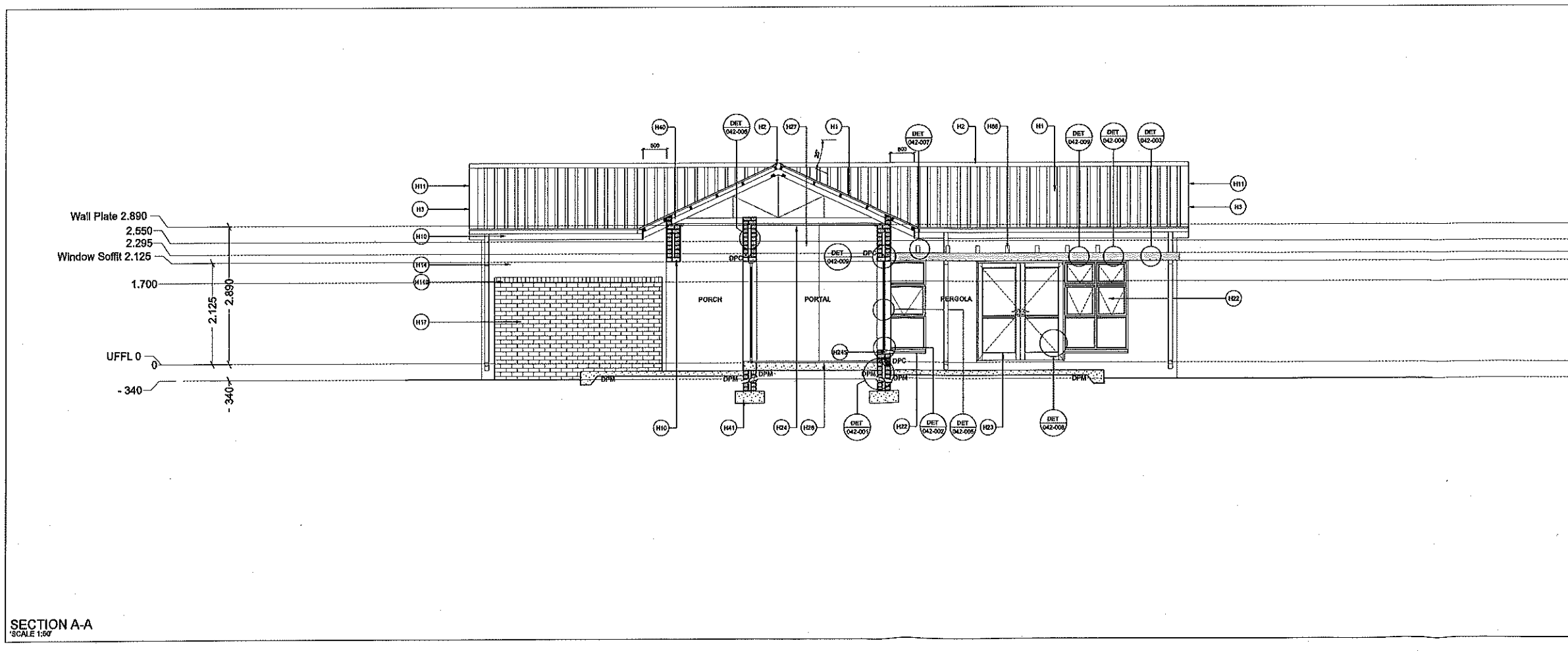
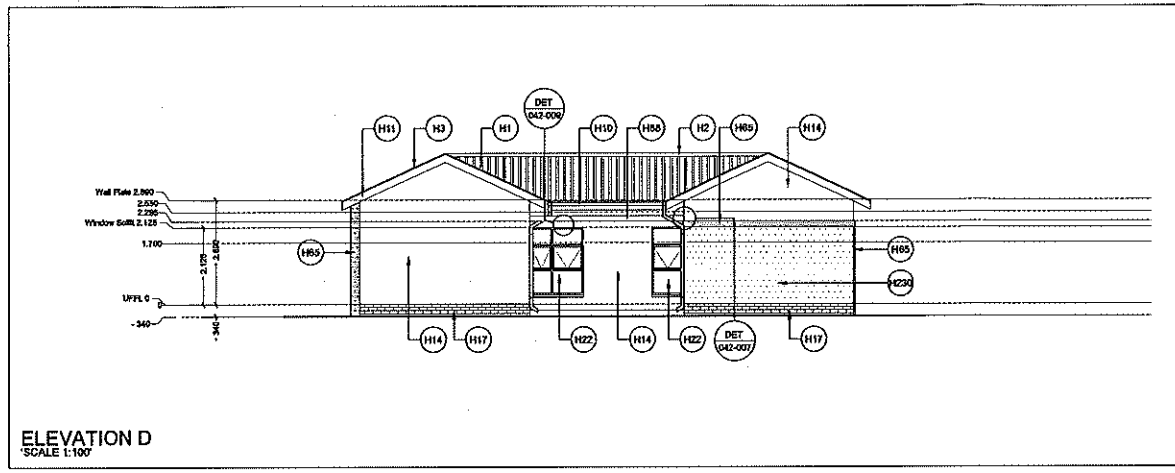
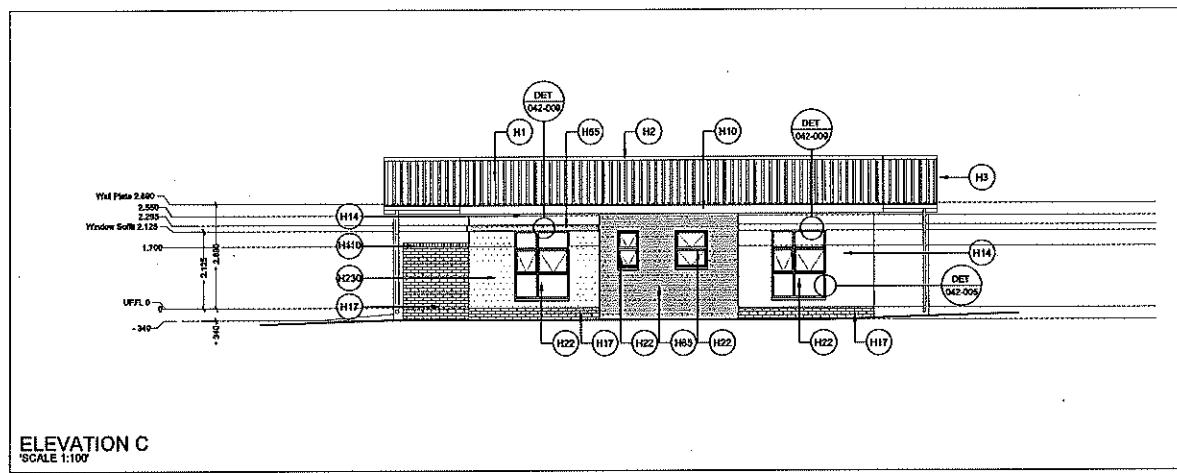
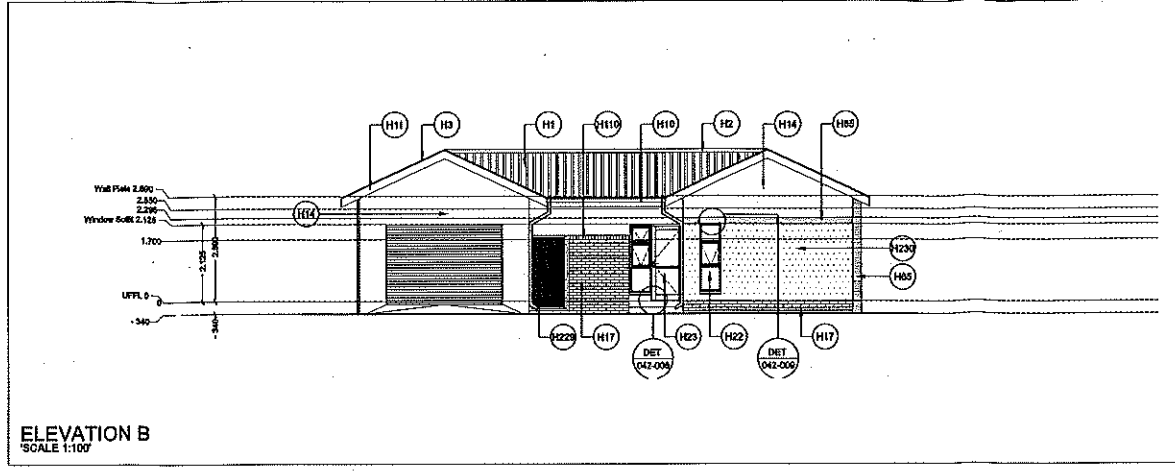
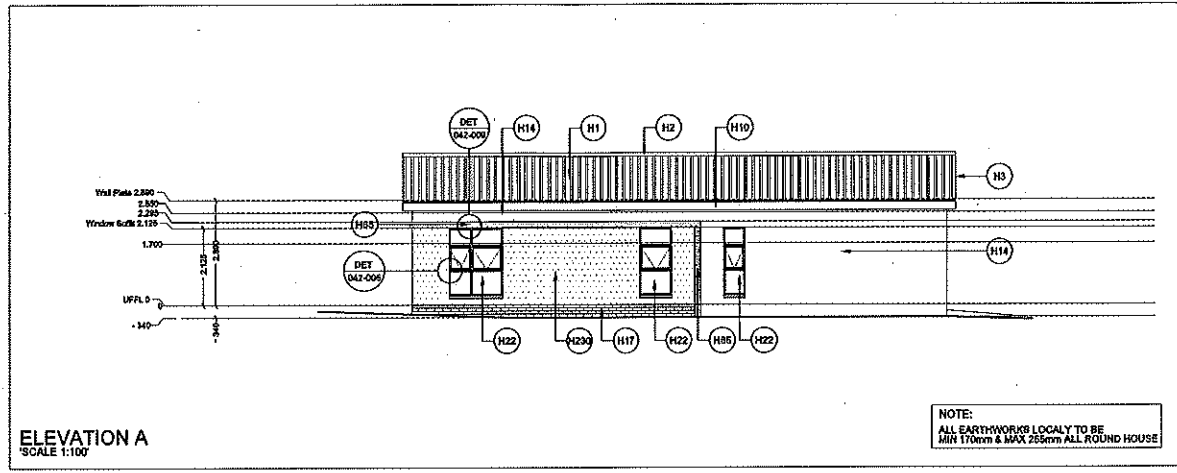


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ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL			
PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00	P2-20080-1-ORT011-
DATE:		7-Aug-17	042-002
ISSUED:	7-Aug-17		

HOSPITAL DESIGN GROUP

P.O.Box 762, HARRISMITH, 9880
Tel:(058) 6223942, Fax:(058) 6230844,
E-mail: hdg@hdg.co.za





- NOTES:
1. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE AND WHERE APPLICABLE TO MATCH EXISTING STRUCTURE.
 2. ANY DISCREPANCY OR CONTRADICTION TO IMMEDIATELY BE REPORTED TO THE ARCHITECT.
 3. DRAWINGS NOT TO BE SCALED.
 4. USE PROFILE COLUMNS AT 85mm CENTRES FOR BRICKWORK EXCEPT WHERE SPECIFIED DIFFERENTLY.
 5. A COMPLETE SET OF DRAWINGS TO BE AVAILABLE ON SITE AT ALL TIMES.
 6. ALL DIMENSIONS AS SHOWN PLAN TO BE PLOTTED ON SITE AT A HORIZONTAL LEVEL.
 7. THE CONTRACTOR IS RESPONSIBLE FOR THE CORRECT LAYOUT OF BUILDINGS ON SITE IN RELATION TO SITE BOUNDARIES AND BUILDING LINES.
 8. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL / CIVIL ENGINEERS DETAIL AND DRAWINGS WHERE APPLICABLE.
 9. ALL BUILDING WORK TO COMPLY WITH SABS/NBR 0400 OF 1990
- NOTAS:

WYSIGINGS / REVISIONS	
WYSIG	REVISIONS
REVIS	DATE
REVIS	DESCRIPTION
PS 20080-1-ORT01	1-030-010

DRAWING STATUS	TEKENING STATUS
PRE-CONSTRUCTION	

PROJECT TITLE	PROJEK TITEL
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"	

DRAWING DESCRIPTION	TEKENING BESKRYWING
"HOUSE 2 BED UNIT TYPE A ELEVATIONS AND SECTION A-A"	

SCALE	1:100 / A1	SKAAL
D.O.W. No.		D.O.W. Nr.
REF. No.		VARW. Nr.
DATE		DATUM
ISSUED	9-Aug-17	UITGEREIK
DRAWN	JLWZ /	GETEKEN

HOSPITAL DESIGN GROUP

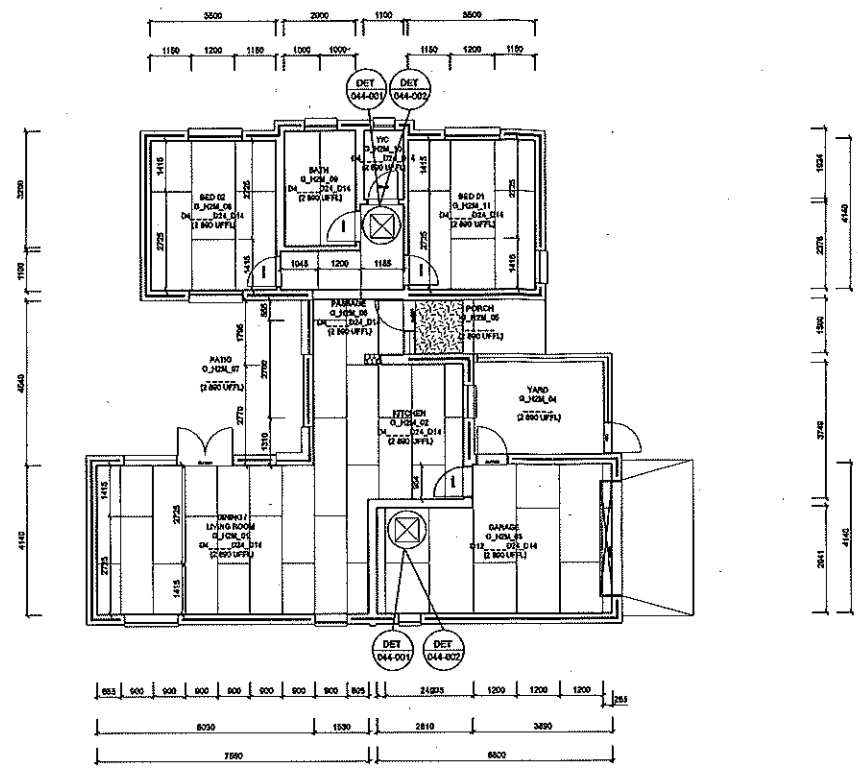
Reg No 20030010000001

Tel: (058) 6221942
Fax: (058) 6220844
E-mail: hdy@hdy.co.za

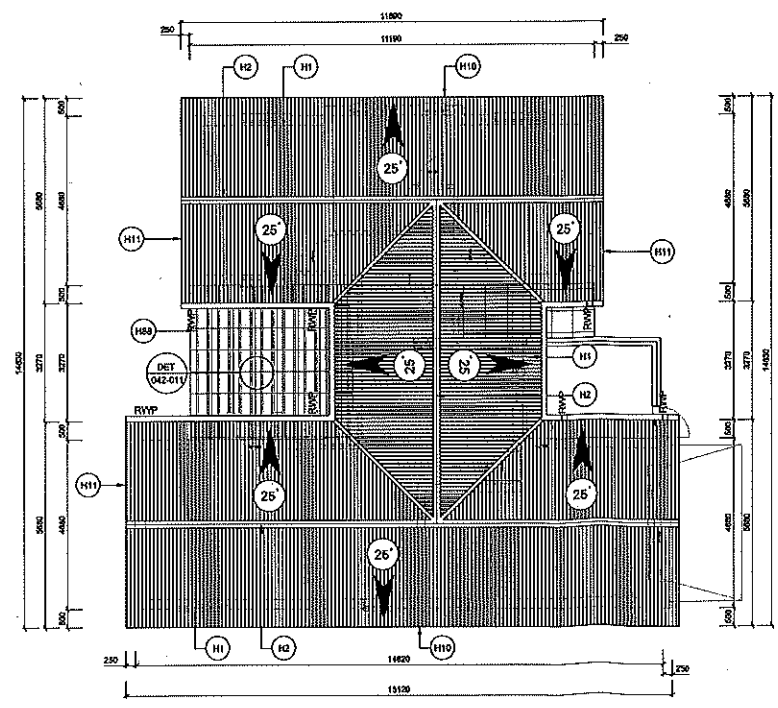
P.O. Box 162, HARRISBURGH, 6101

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PROJEK NO:	TEKENING NO:	WYSIGING NO:
	1-030-010	1-Aug-17



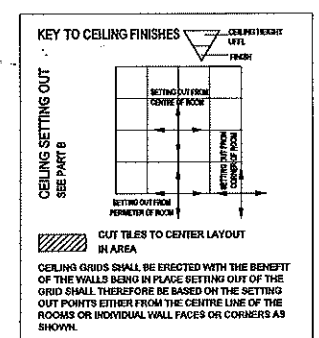
CEILING PLAN
SCALE 1:100



ROOF PLAN
SCALE 1:100

NOTES: NOTAS:

1. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE AND WHERE APPLICABLE TO MATCH EXISTING STRUCTURE.
2. ANY DISCREPANCY OR CONTRADICTION TO IMMEDIATELY BE REPORTED TO THE ARCHITECT.
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4. USE PROFILE COLUMNS AT 85mm CENTRES FOR BRICKWORK EXCEPT WHERE SPECIFIED DIFFERENTLY.
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9. ALL BUILDING WORK TO COMPLY WITH SABS/NBR 0400 OF 1990



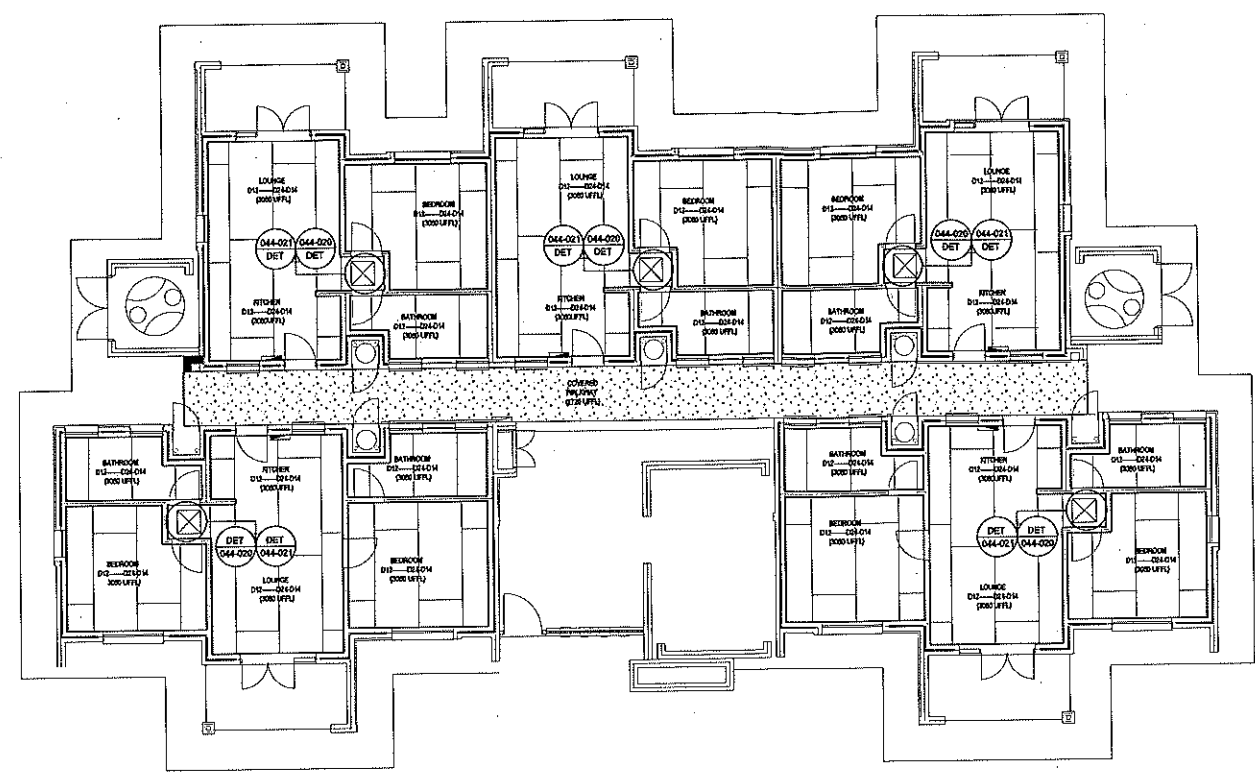
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P2-20080-1-ORT011-013-010			

DRAWING STATUS	TEKENING STATUS
PRE-CONSTRUCTION	
PROJECT TITLE	PROJEK TITEL
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"	
DRAWING DESCRIPTION	TEKENING BESKRIVING
"HOUSE, 2 BED UNIT TYPE A GROUND FLOOR CEILING AND ROOF PLAN"	

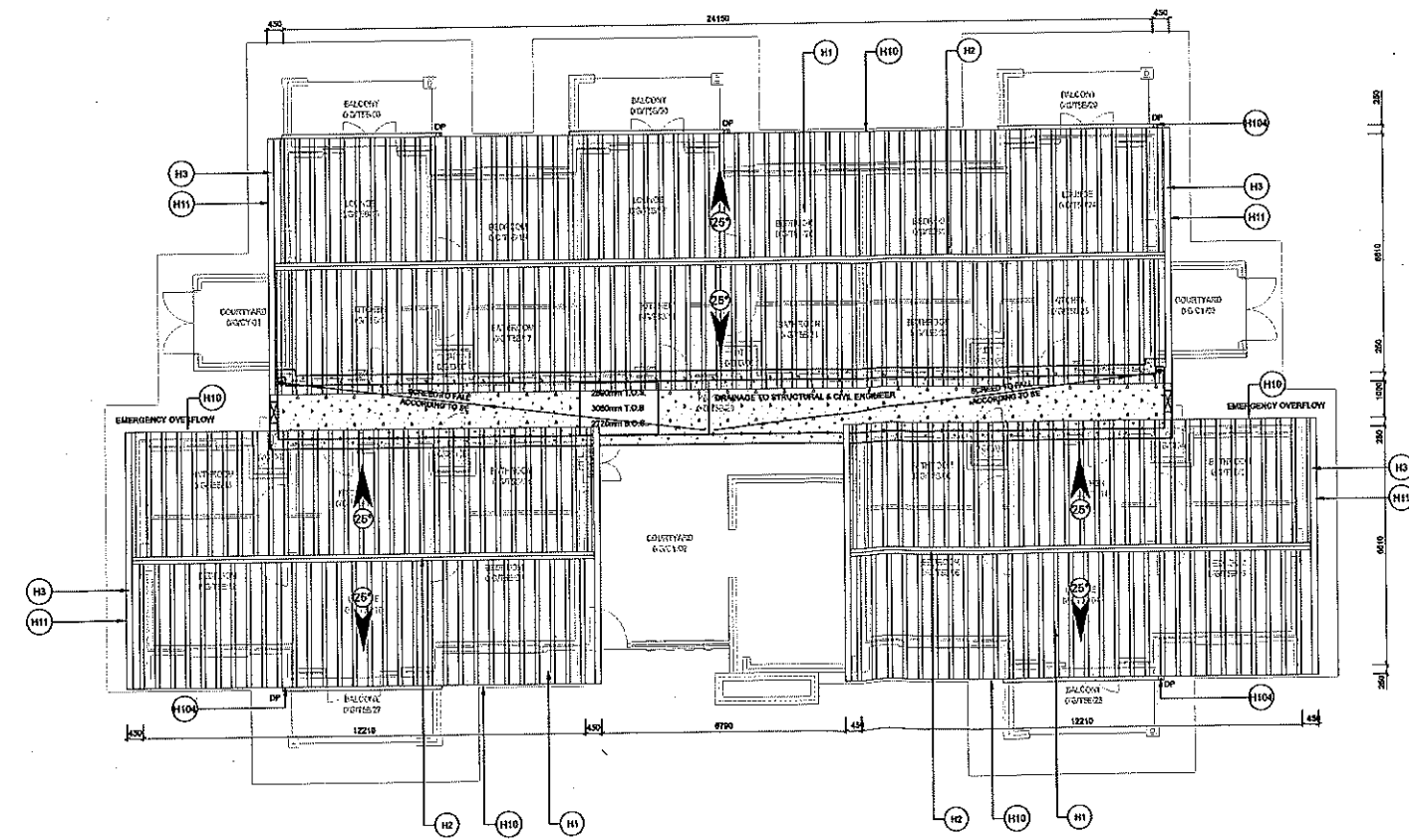
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REF. No.		VARW. Nr.
DATE		DATUM
ISSUED	10-Aug-17	UITGEREIK
DRAWN	JLVZ /	GETEKEN

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P.O. Box 702, HARBESMIT, 6400

PROJECT NO:	DRAWING NO:	REVISION
20080-1-ORT011	P2-20080-1-ORT011-013-010	PROO 7-Aug-17
PROJEK NO:	TEKENING NO:	WYSIGING NO:



7 BED UNIT TYPE D GROUND FLOOR CEILING
SCALE 1:100



7 BED UNIT TYPE D ROOF PLAN
SCALE 1:100

- NOTES:
1. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE AND WHERE APPLICABLE TO MATCH EXISTING STRUCTURE.
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 9. ALL BUILDING WORK TO COMPLY WITH SABS/NBR 0400 OF 1999

KEY TO CEILING FINISHES

CEILING HEIGHT 2.7M

CEILING SETTING OUT

SEE PART 5

CEILING TYPES:

TYPE A: D2 - CONCRETE CEILING
ROOF INSULATION TO FINISHING SCHEDULE

TYPE B: D12 - PLASTERED PLASTERBOARD CEILING
D6 SHEET METAL ROOF INSULATION (100mm)
D24 CEILING INSULATION (50mm)
ROOF INSULATION TO FINISHING SCHEDULE

TYPE C: D3 - FIBER CEMENT CEILING
D6 SHEET METAL ROOF INSULATION (100mm)
D24 CEILING INSULATION (50mm)
ROOF INSULATION TO FINISHING SCHEDULE

WYSIGINGS / REVISIONS			
WYSIG	DATE	PAR. NO.	REVISIONS / DESCRIPTION

DRAWING STATUS	TEKENING STATUS
PRE-CONSTRUCTION	
PROJECT TITLE	PROJECT TITLE
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"	

DRAWING DESCRIPTION	TEKENING BESKRYWING
GROUND FLOOR CEILING AND ROOF PLAN (DOUBLE PITCHED ROOF)	
SCALE	SCALE
1:50 / A1	
D.O.W. No.	D.O.W. Nr.
REF. No.	VARW. Nr.
DATE	DATUM
15-Aug-17	
ISSUED	UITGEREIK
DRAWN	GETEKEN
JLVZ /	

HOSPITAL DESIGN GROUP

Reg No 2003/0000000

Tel: (058) 6223942

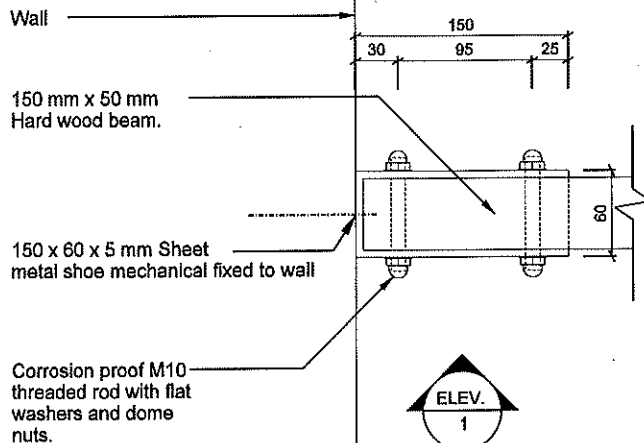
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E-mail: hdg@hdg.co.za

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PROJECT NO:	DRAWING NO:	REVISION
20080-1-ORT011	P2-20080-1-ORT011-013-030	PROO 9-Aug-17
PROJEK NO:	TEKENING NO:	WYSIGING NO:



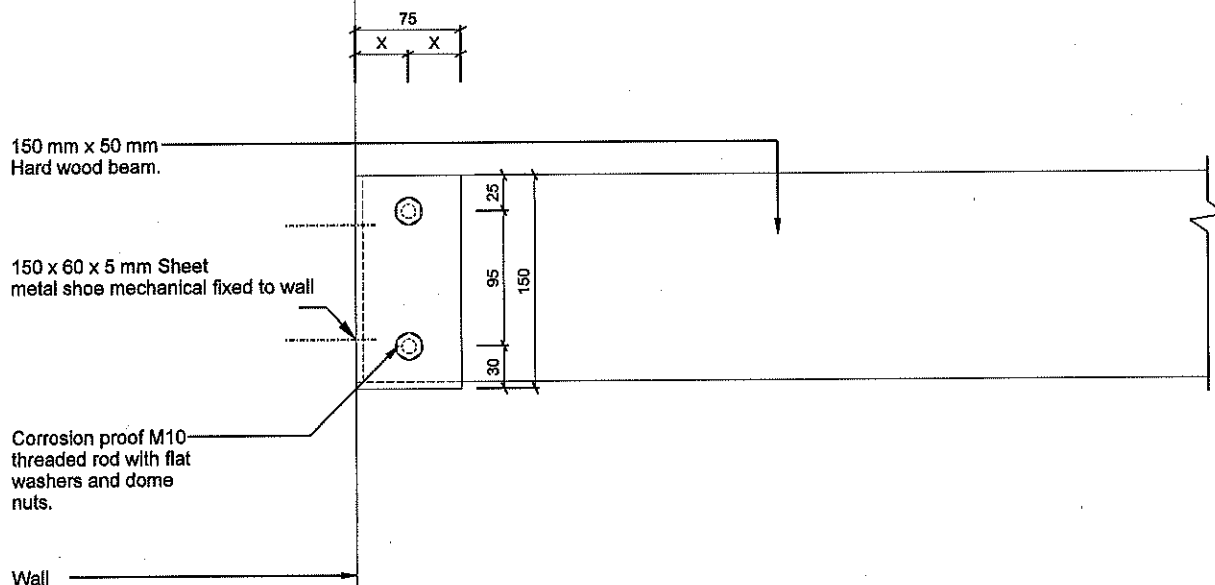
DETAIL

'SCALE 1:5'

FINISHING NOTE:

Hard Wood: - Prepare and sand all surfaces to a smooth surface and finish with Woodoc 30 low-gloss, exterior sealer for enhances the natural look. Mix Woodoc Colours tint into first coat and apply clear final coats - all strictly to manufacturers. Colour to Architects approval. (Pre approve sample)

Mild Steel: - Plascon Water based Enamel to exterior new mild steel (NW 688). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 04:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Professional High Build Zinc Phosphate Primer (UC 170) with an over coating time of 16 hours and finish with two coats Water based Enamel (WBE) with 4 hours drying time between coats, for a maintenance cycle of 3 years in a C3 - industrial environment.



ELEVATION 1

'SCALE 1:5'

DRAWING DESCRIPTION:

SCALE:

WALL BRACKET

1:5

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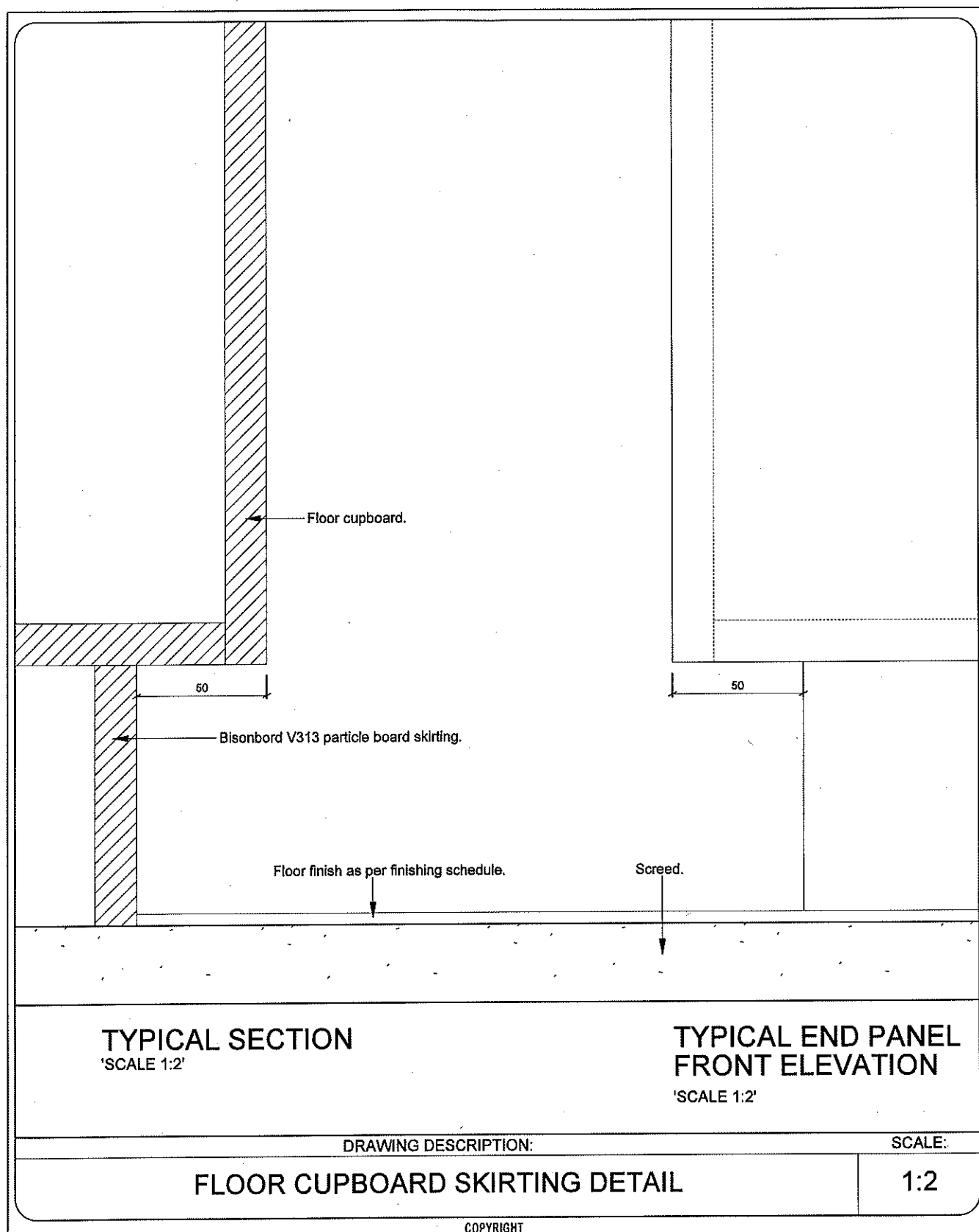
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080- 1-ORT011- 042-007
DATE:			
ISSUED:	7-Aug-17		

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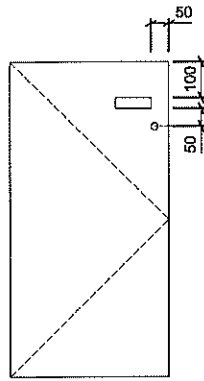
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PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-101
DATE:			
ISSUED:	8-Aug-17		

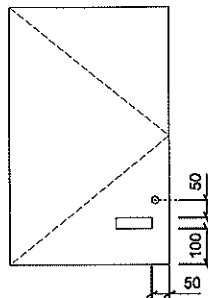
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 E-mail: hdg@hdg.co.za

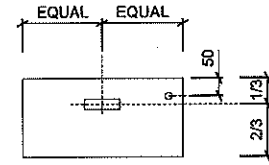
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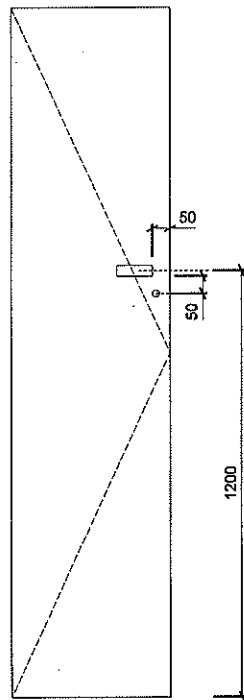
FLOOR CUPBOARD
(TYPE 1)



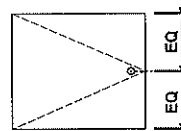
WALL CUPBOARD



DRAWER



FLOOR CUPBOARD
(TYPE 2)



PIGEON HOLE
CUPBOARD

NOTE :

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATIONS IN THE JOINERY SCHEDULE DOCUMENT DRAWING NO. 100-M.
2. CONTROL LOCK SET INSTALLATION POSITION ON SITE TO SUIT LOCKSET SIZE.

DRAWING DESCRIPTION:

SCALE:

JOINERY HANDLE & LOCKSET INSTALLATION HEIGHTS

1:20

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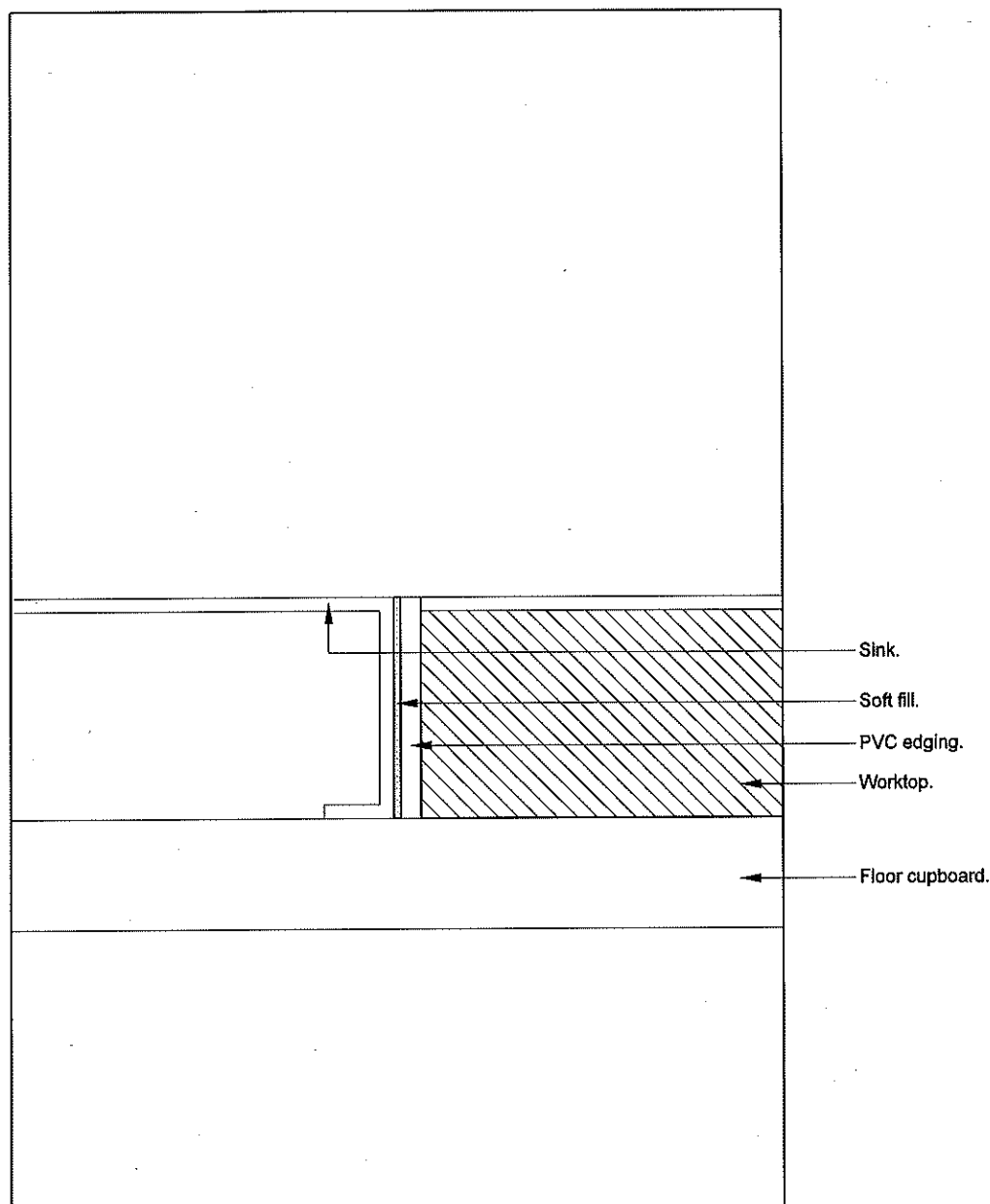
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"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-102
DATE:			
ISSUED:	8-Aug-17		

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E-mail: hdg@hdg.co.za



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TYPICAL SINK-WORKTOP JOINT DETAIL
SCALE 1:1

DRAWING DESCRIPTION:

SCALE:

TYPICAL SINK-WORKTOP JOINT DETAIL

1:1

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PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-103
DATE:			
ISSUED:	8-Aug-17		

HOSPITAL DESIGN GROUP

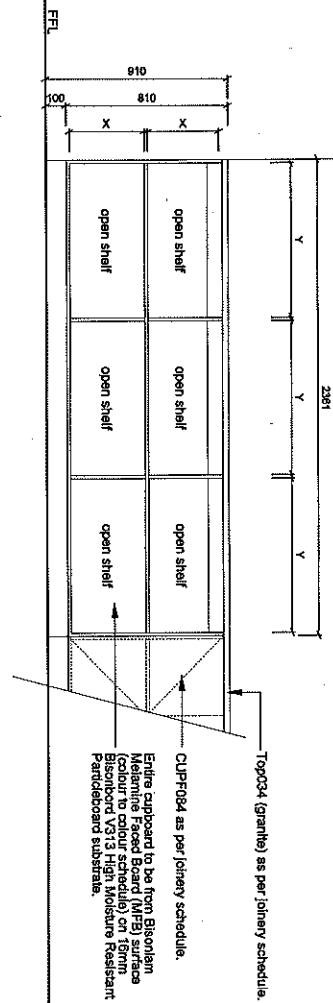
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Tel:(058) 6223942, Fax:(058) 6230844,
E-mail: hdg@hdg.co.za



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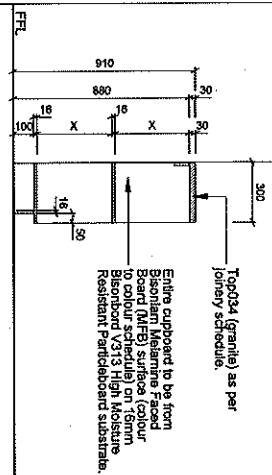
ELEVATION

SCALE 1:25



SECTION

SCALE 1:25



DRAWING DESCRIPTION:

2/3 BED ROOM : DINING/ LIVING ROOM SHELF DETAIL

SCALE:

1:25

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PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

REV. NO

PR00
7-Aug-17

DET. NO

P2-20080-1-ORT011-045-104

PROJECT: 20080-1-ORT011
DRAWN: JLVZ
DATE: 6-Aug-17
ISSUED:

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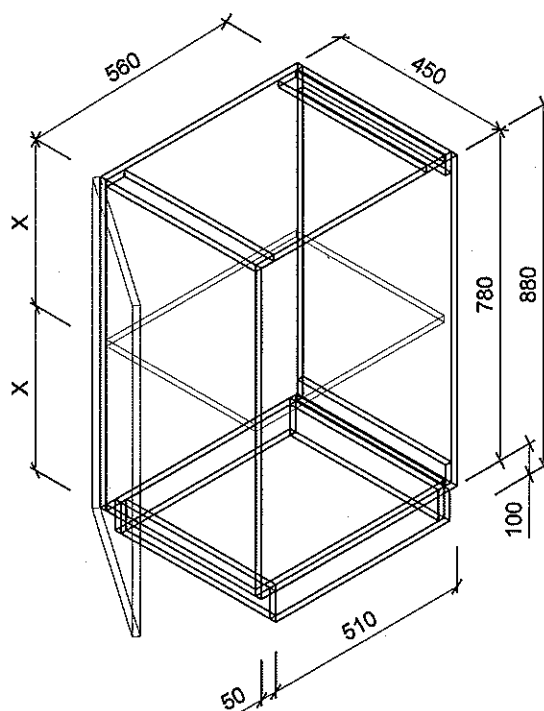
P.O.Box 762, HARRISMITH, 9880
Tel: (058) 6223942, Fax: (058) 6230844,
E-mail: hdg@hdg.co.za



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NOTE :

THIS DRAWING TO BE READ IN CONJUNCTION WITH
SPECIFICATIONS IN THE JOINERY SCHEDULE DOCUMENT
DRAWING NO. 100-M.



DRAWING DESCRIPTION:

SCALE:

450 FLOOR UNIT - F01 (CUPF001)

NTS

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PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF001
DATE:			
ISSUED:	8-Aug-17		

HOSPITAL DESIGN GROUP

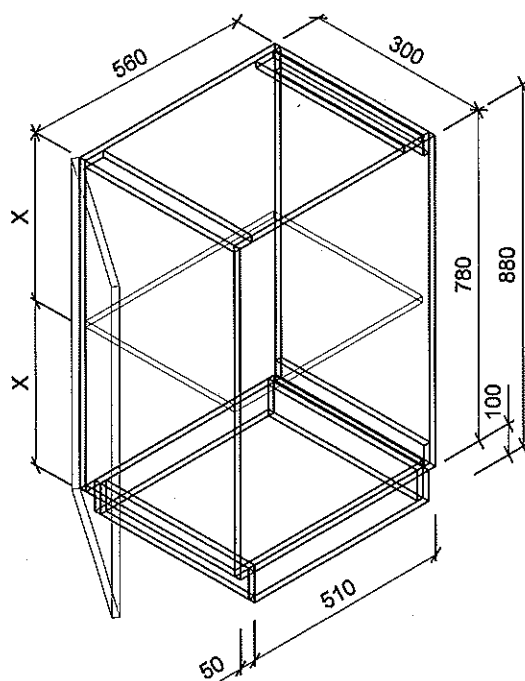
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DRAWING DESCRIPTION:

SCALE:

300 FLOOR UNIT - F02 (CUPF002)

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PROJECT TITLE

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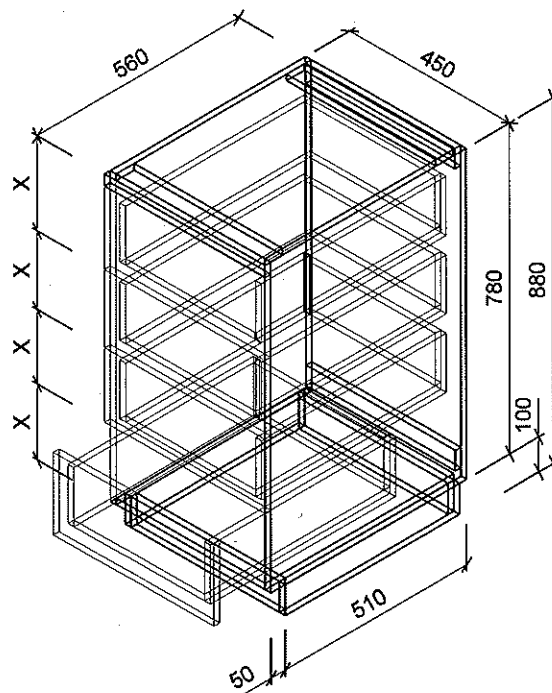
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF002
DATE:			
ISSUED:	8-Aug-17		

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450 DRAWER UNIT - F03 (CUPF003)

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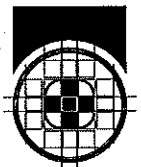
PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF003
DATE:			
ISSUED:	8-Aug-17		

HOSPITAL DESIGN GROUP

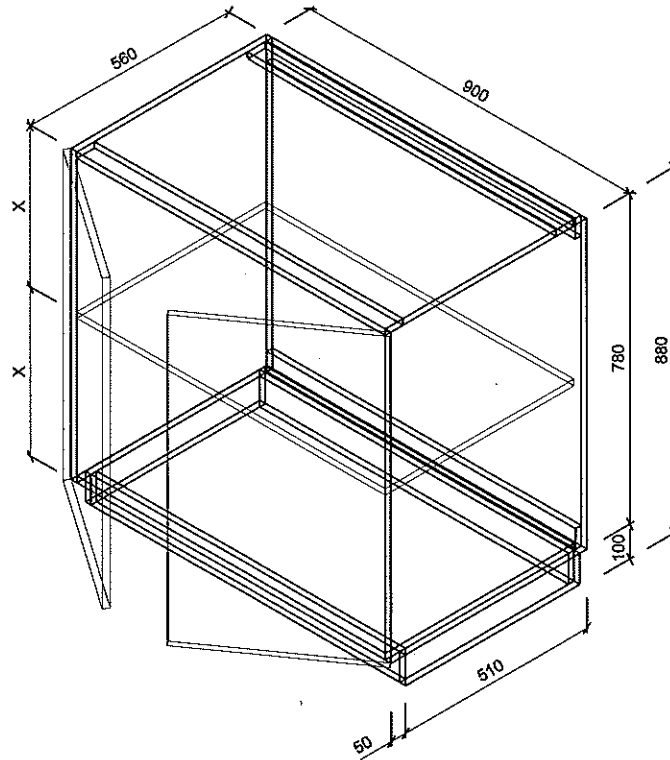
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CANZIBE HOSPITAL"

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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF004
DATE:			
ISSUED:	8-Aug-17		

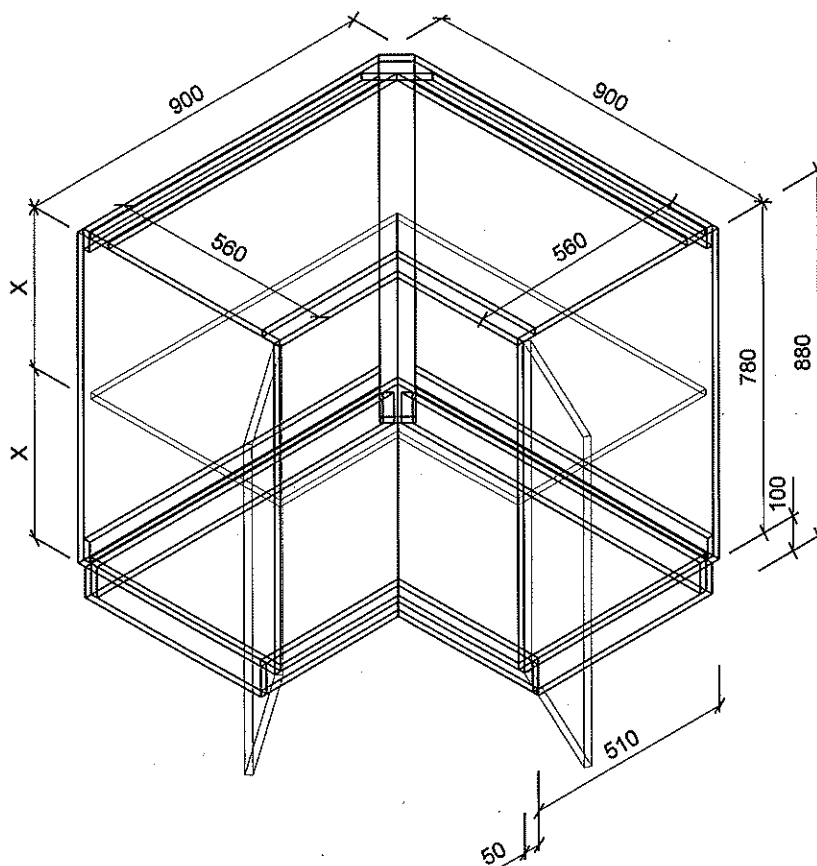
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SCALE:

900 FLOOR CORNER UNIT - F06 (CUPF006)

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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF006
DATE:			
ISSUED:	8-Aug-17		

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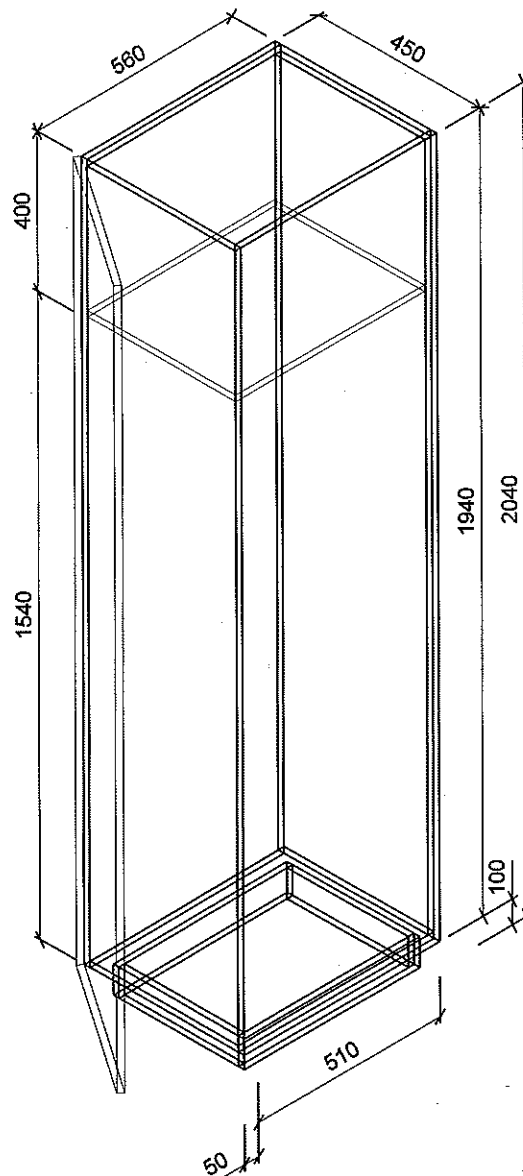
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DRAWING DESCRIPTION:

SCALE:

450 BROOM CUPBOARD - F07 (CUPF007)

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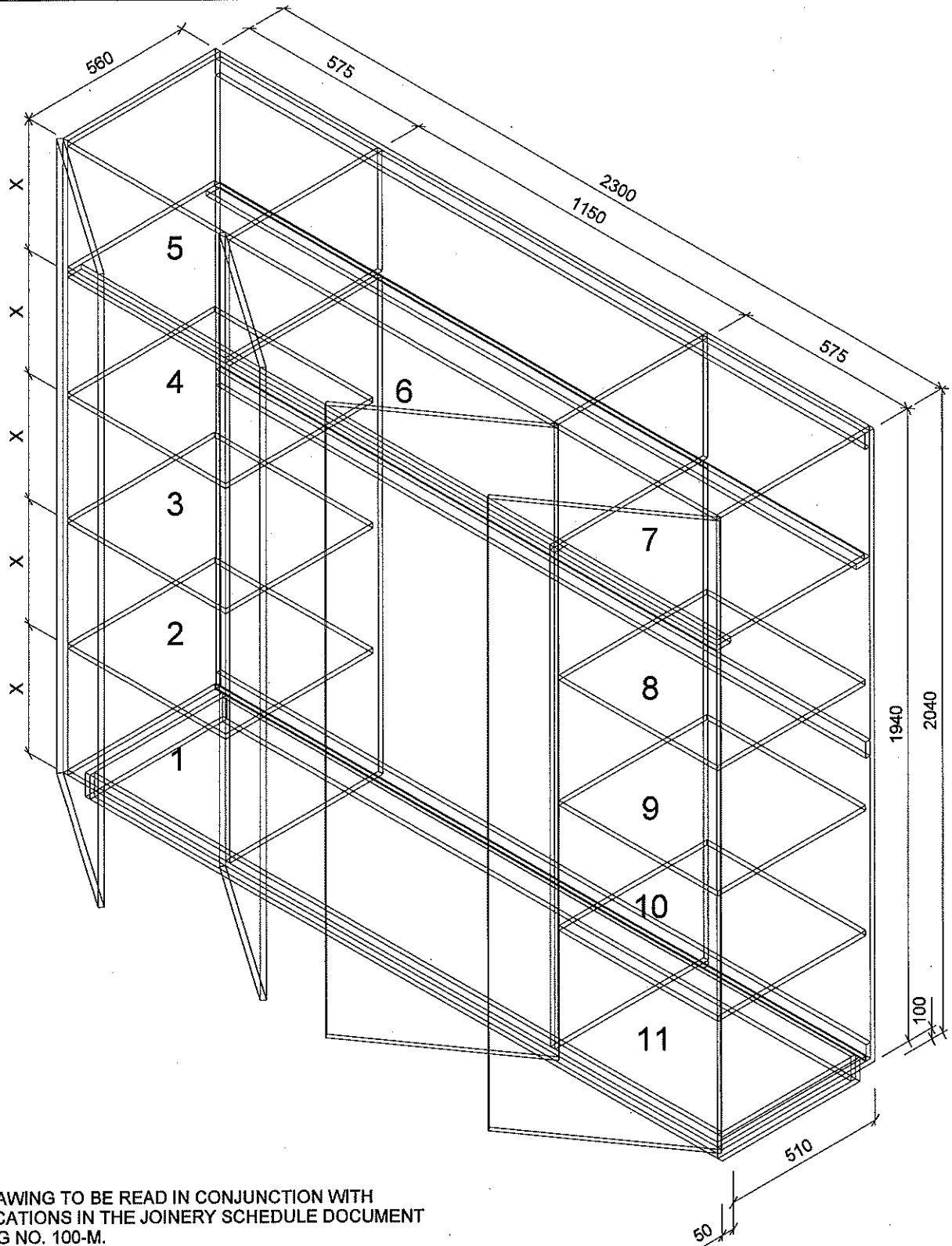
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF007
DATE:			
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2300 WARDROBE FLOOR CUPBOARD - F14 (CUPF014)

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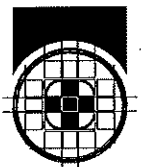
PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF014
DATE:			
ISSUED:	8-Aug-17		

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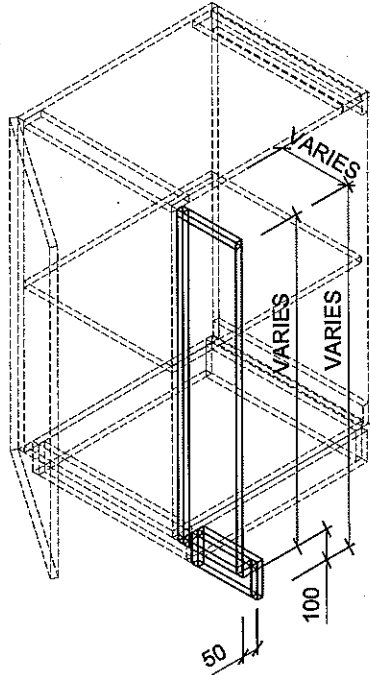
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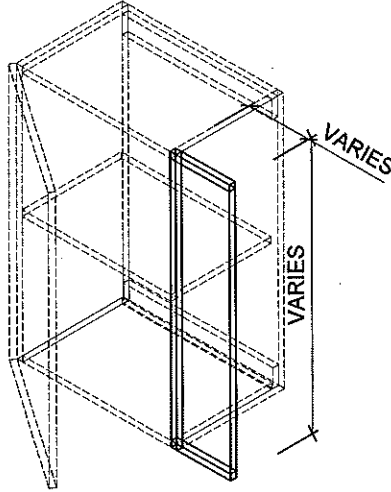
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DRAWING NO. 100-M.



FLOOR CUPBOARD
IN-FILL PANEL DETAIL.



WALL CUPBOARD
IN-FILL PANEL DETAIL.

DRAWING DESCRIPTION:

SCALE:

TYPICAL CUPBOARD IN-FILL PANEL - F18 (CUPF018)

NTS

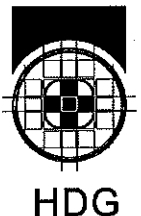
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF018
DATE:			
ISSUED:	8-Aug-17		

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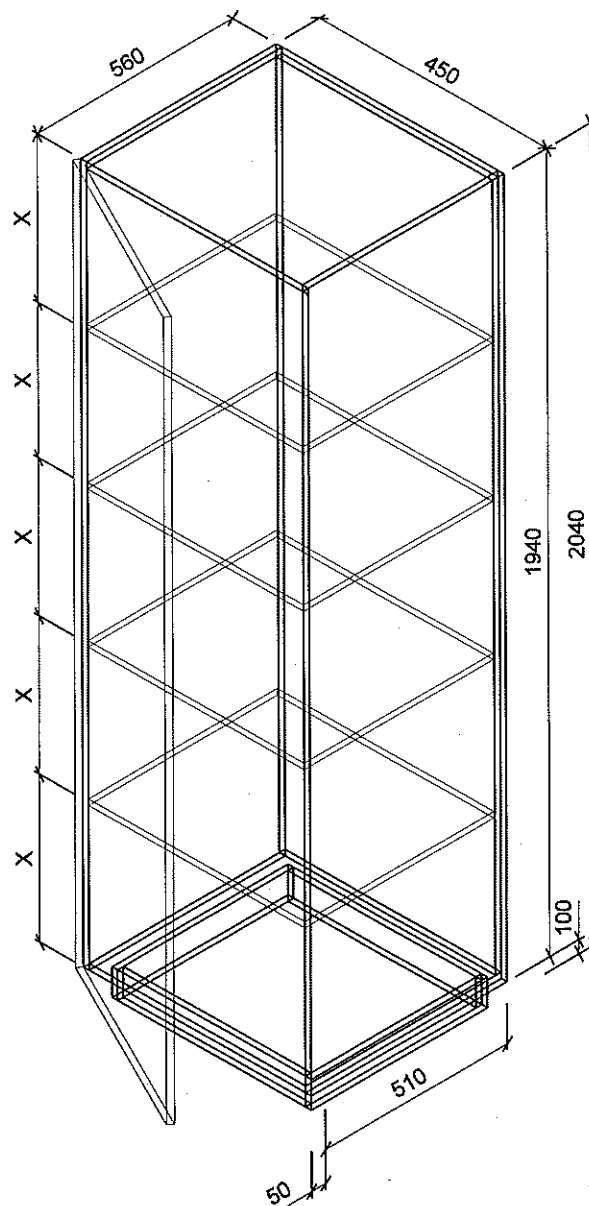
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DRAWING DESCRIPTION:

450 GROCERY CUPBOARD - F34 (CUPF034)

SCALE:

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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF034
DATE:			
ISSUED:	8-Aug-17		

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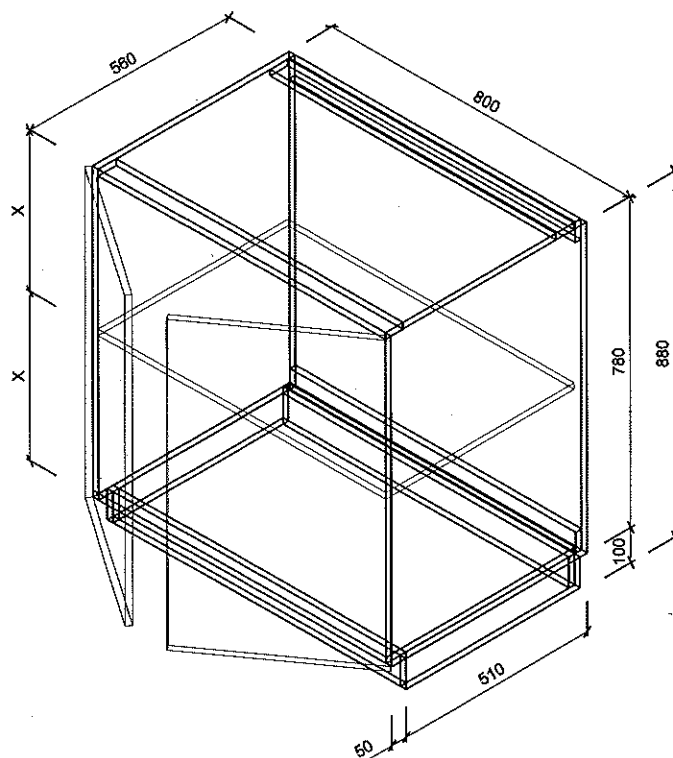
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DRAWING DESCRIPTION:

SCALE:

800 FLOOR UNIT - F79 (CUPF079)

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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF079
DATE:			
ISSUED:	8-Aug-17		

HOSPITAL DESIGN GROUP

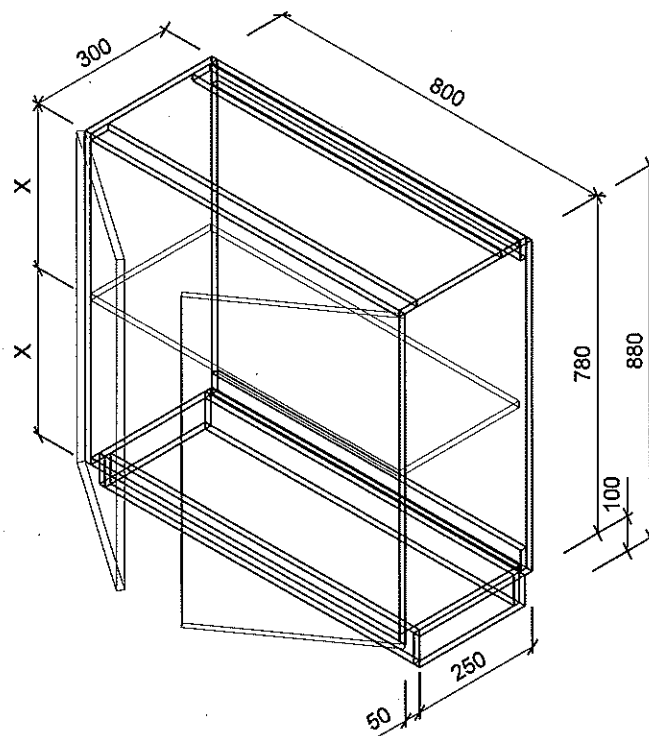
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DRAWING DESCRIPTION:

800 FLOOR UNIT - F84 (CUPF084)

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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF084
DATE:			
ISSUED:	8-Aug-17		

HOSPITAL DESIGN GROUP

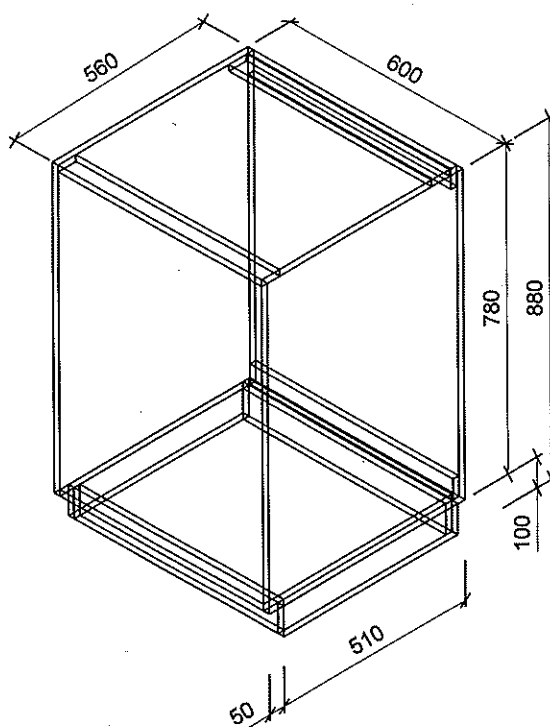
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DRAWING DESCRIPTION:

SCALE:

600 FLOOR UNIT - F85 (CUPF085)

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CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF085
DATE:			
ISSUED:	8-Aug-17		

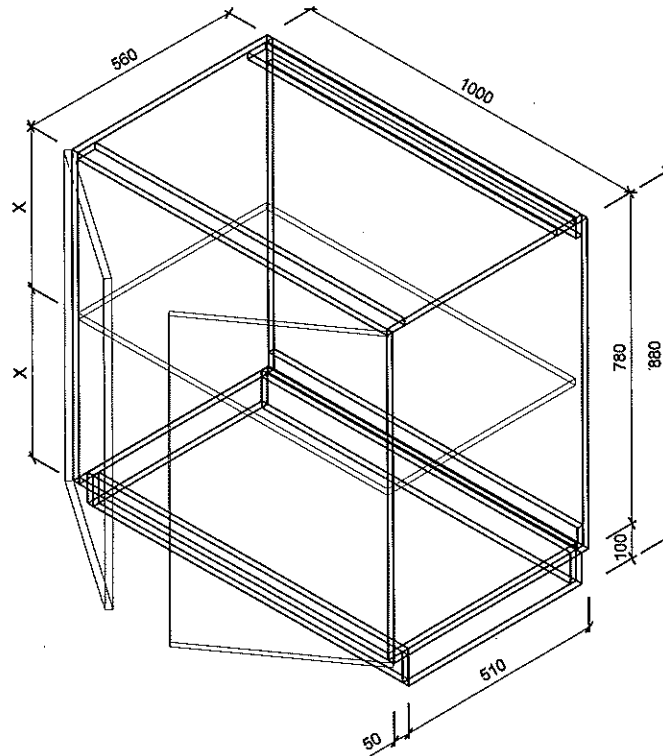
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DRAWING DESCRIPTION:

1000 FLOOR UNIT - F05 (CUPF005)

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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF005
DATE:			
ISSUED:	8-Aug-17		

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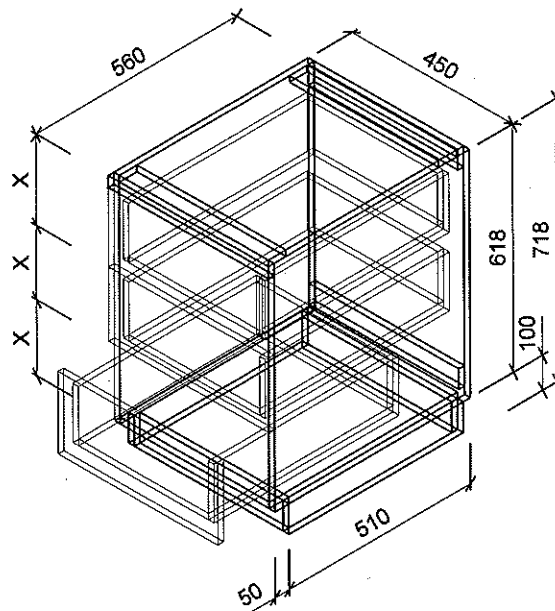
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450 DRAWER UNIT - F22 (CUPF022)

SCALE:

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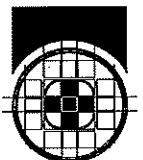
PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	IKP /	PR00 10-Aug-17	P2-20080-1-ORT011-045-CUPF022
DATE:			
ISSUED:	10-Aug-17		

HOSPITAL DESIGN GROUP

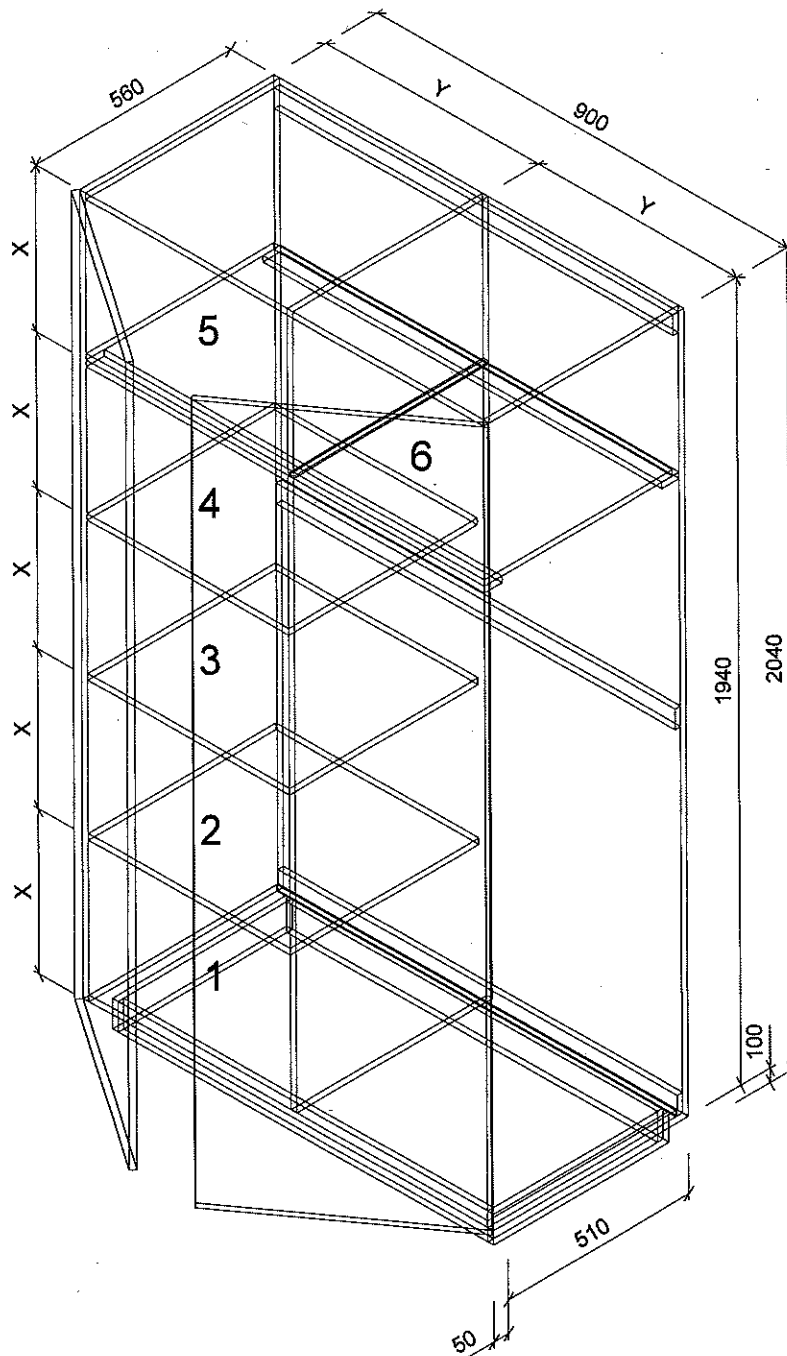
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900 WARDROBE FLOOR CUPBOARD - F19 (CUPF019)

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CANZIBE HOSPITAL"

PROJECT: 20080-1-ORT011

REV. NO

DET. NO

DRAWN: JLVZ /

DATE:

ISSUED: 8-Aug-17

PR00
7-Aug-17

P2-20080-1-ORT011-045-CUPF019

HOSPITAL DESIGN GROUP

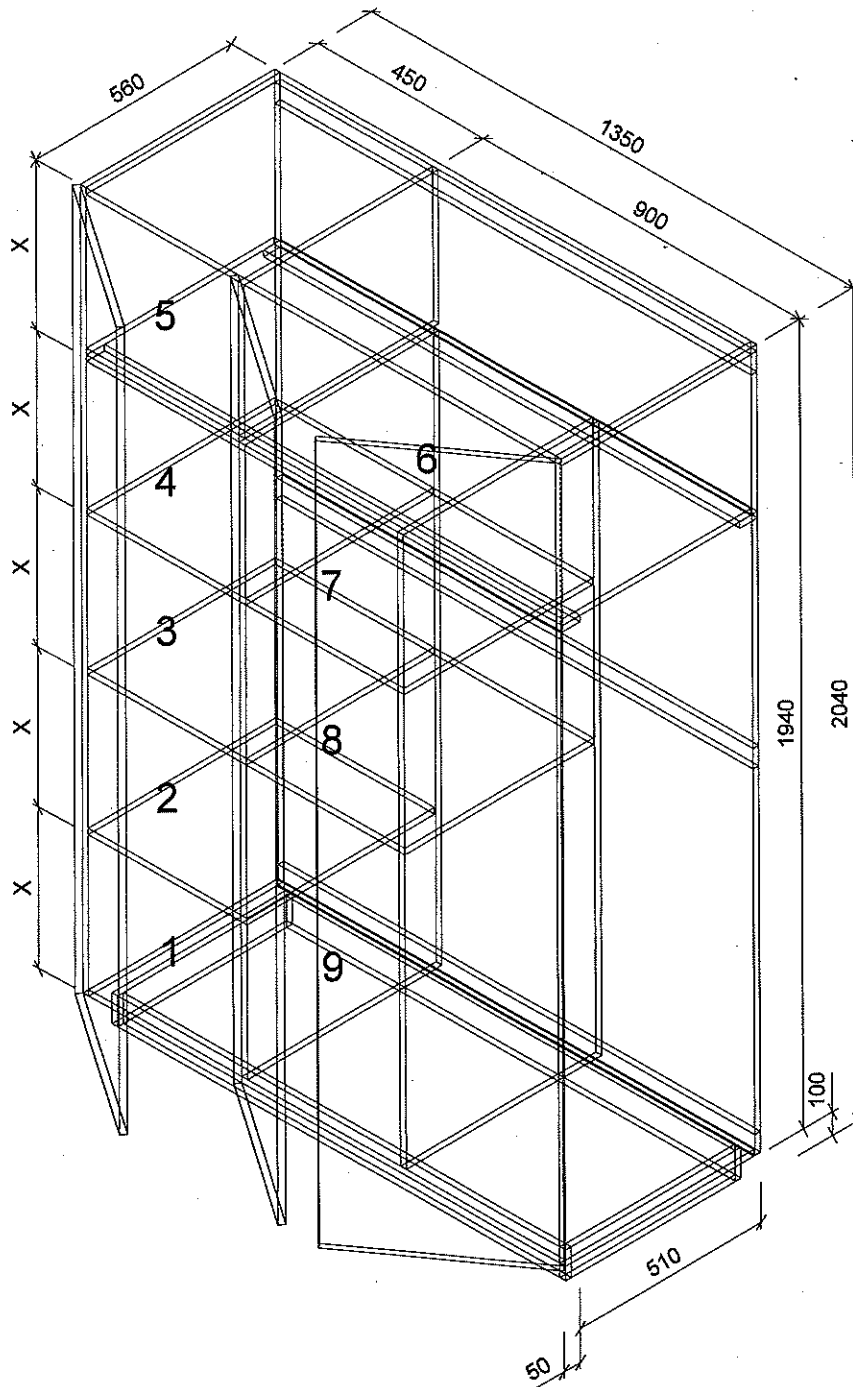
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1350 WARDROBE CUPBOARD - F33 (CUPF033)

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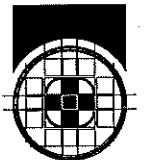
PROJECT TITLE

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OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPF033
DATE:			
ISSUED:	8-Aug-17		

HOSPITAL DESIGN GROUP

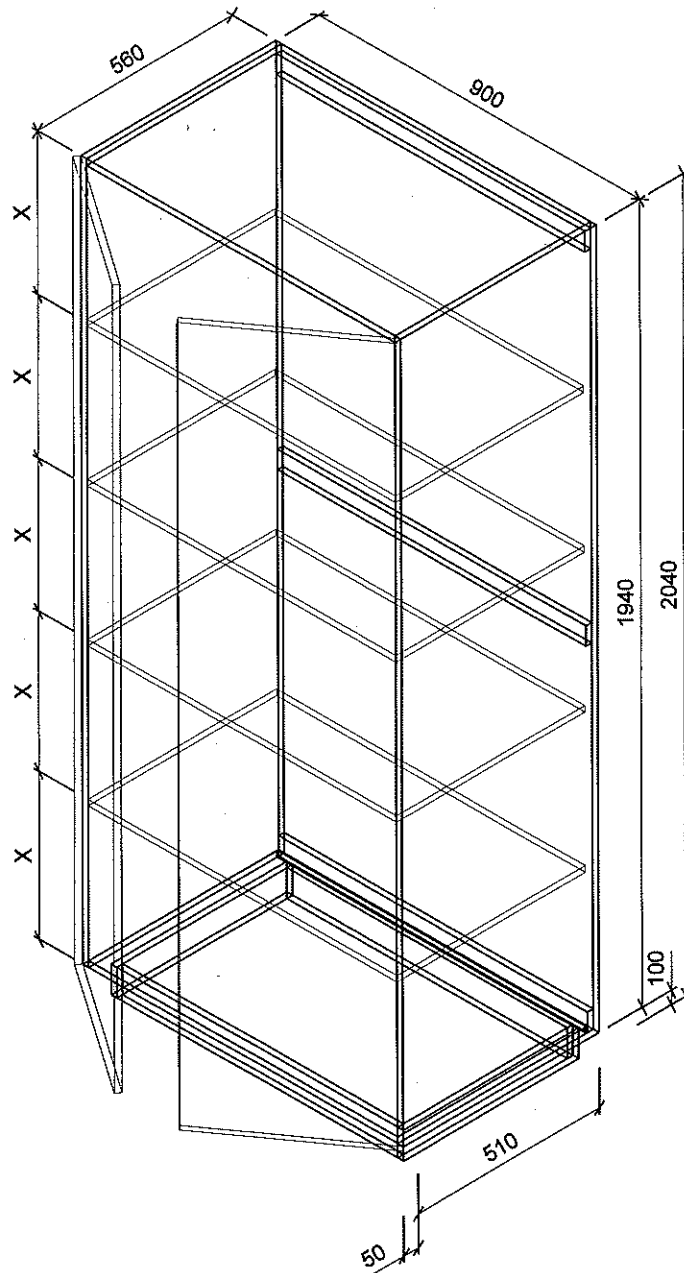
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900 UTILITY FLOOR CUPBOARD - F08 (CUPF008)

SCALE:

NTS

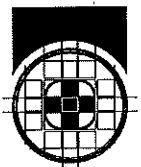
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OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	IKP /	PR00 15-Aug-17	P2-20080-1-ORT011-045-CUPF008
DATE:			
ISSUED:	15-Aug-17		

HOSPITAL DESIGN GROUP

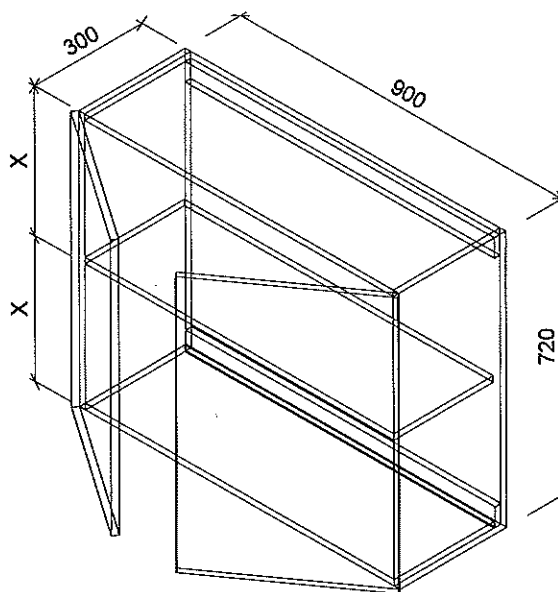
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DRAWING DESCRIPTION:

SCALE:

900 WALL UNIT - W03 (CUPW003)

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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-CUPW003
DATE:			
ISSUED:	8-Aug-17		

HOSPITAL DESIGN GROUP

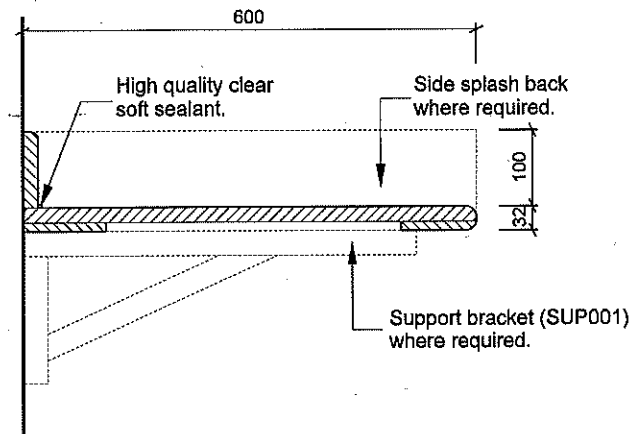
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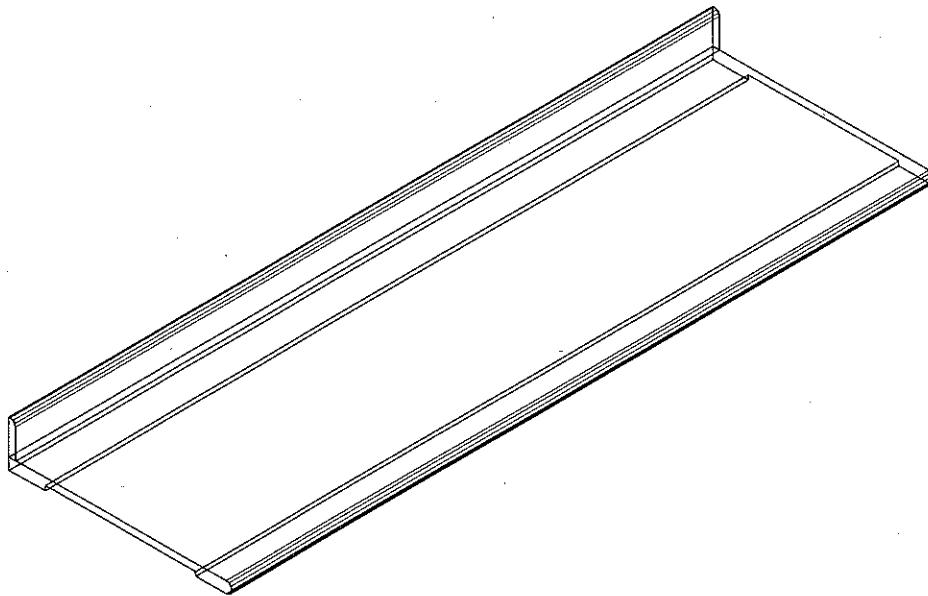
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NOTE :

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DRAWING NO. 100-M.



T01-04 - FORMICA LIFESEAL TOP/ 600mm WIDE WITH SINK AS
SPECIFIED ON JOINERY SCHEDULE (DRWNG NO 100-M).



DRAWING DESCRIPTION:

SCALE:

TYPICAL TOP DETAIL - T01-T04 (TOP001-TOP004)

1:10

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CANZIBE HOSPITAL"

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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-T01-T04
DATE:			
ISSUED:	8-Aug-17		

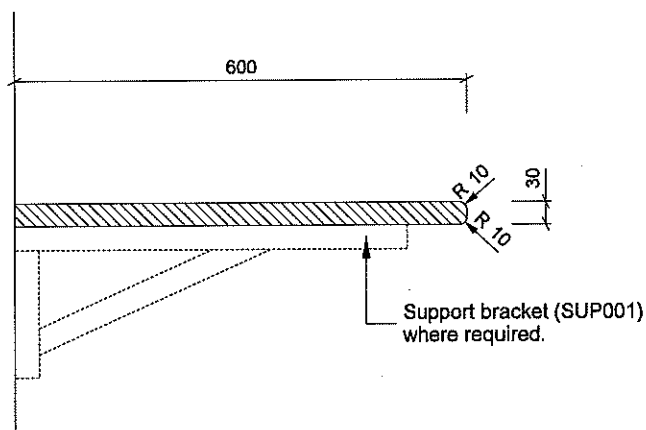
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NOTE :

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DRAWING NO. 100-M.



T34-37 - GRANITE WORKTOP 600mm WIDE AS SPECIFIED
ON JOINERY SCHEDULE (DRWNG NO 100-M).

DRAWING DESCRIPTION:

SCALE:

TYPICAL TOP DETAIL - T34-T37 (TOP034-TOP037)

1:10

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PROJECT TITLE

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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-T34-T37
DATE:			
ISSUED:	8-Aug-17		

HOSPITAL DESIGN GROUP

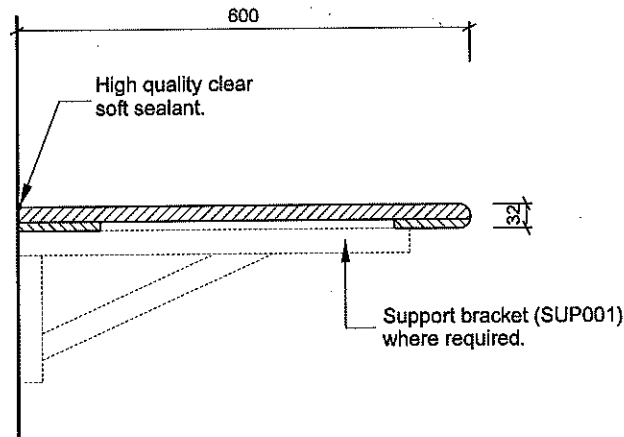
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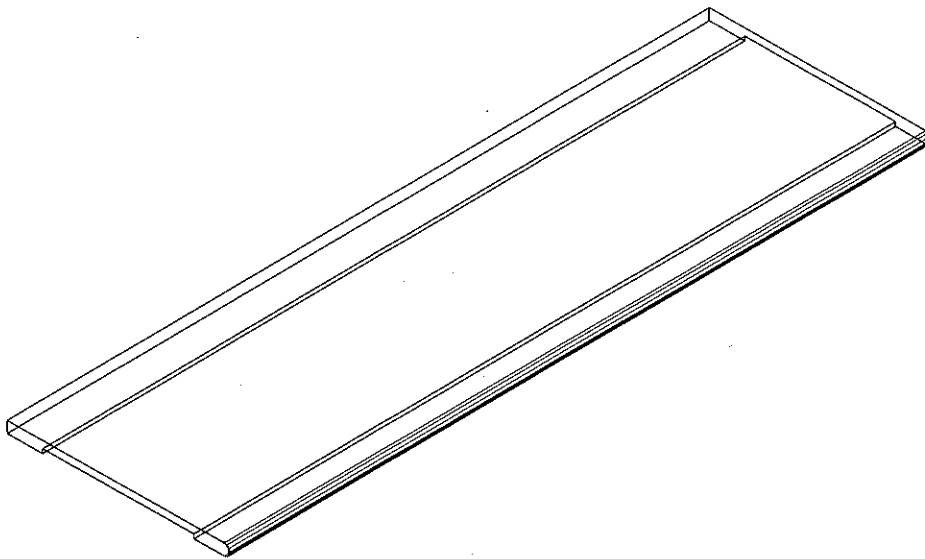
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NOTE :

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DRAWING NO. 100-M.



T57-60 - FORMICA LIFESEAL TOP/ 600mm WIDE WITH SINK AS
SPECIFIED ON JOINERY SCHEDULE (DRWNG NO 100-M).



DRAWING DESCRIPTION:

SCALE:

TYPICAL TOP DETAIL - T57-T60 (TOP057-TOP060)

1:10

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PROJECT TITLE

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OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

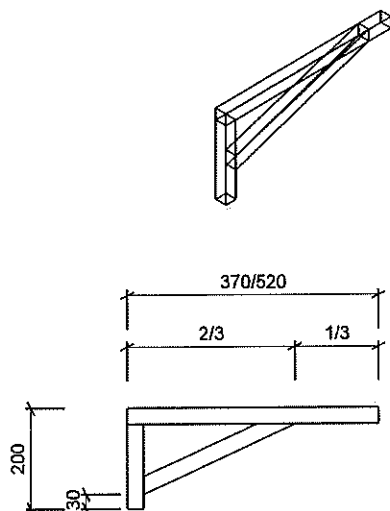
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-T57-T60
DATE:			
ISSUED:	8-Aug-17		

HOSPITAL DESIGN GROUP

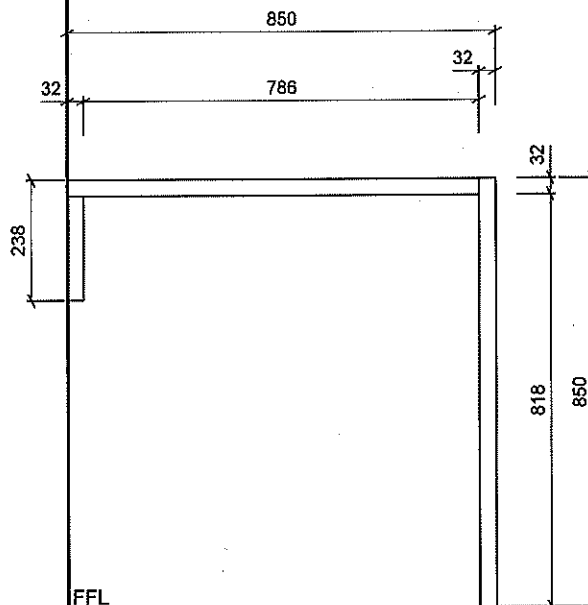
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Tel:(058) 6223942, Fax:(058) 6230844,
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SUPPORT - S1 (SUP001)



SUPPORT - S2 (SUP002)

SUPPORT - S3 (SUP003)

SUPPORT - S4 (SUP004)

DRAWING DESCRIPTION:

SCALE:

SUPPORTS S01,S02,S03,S04 (SUP001-SUP004)

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PROJECT TITLE
"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

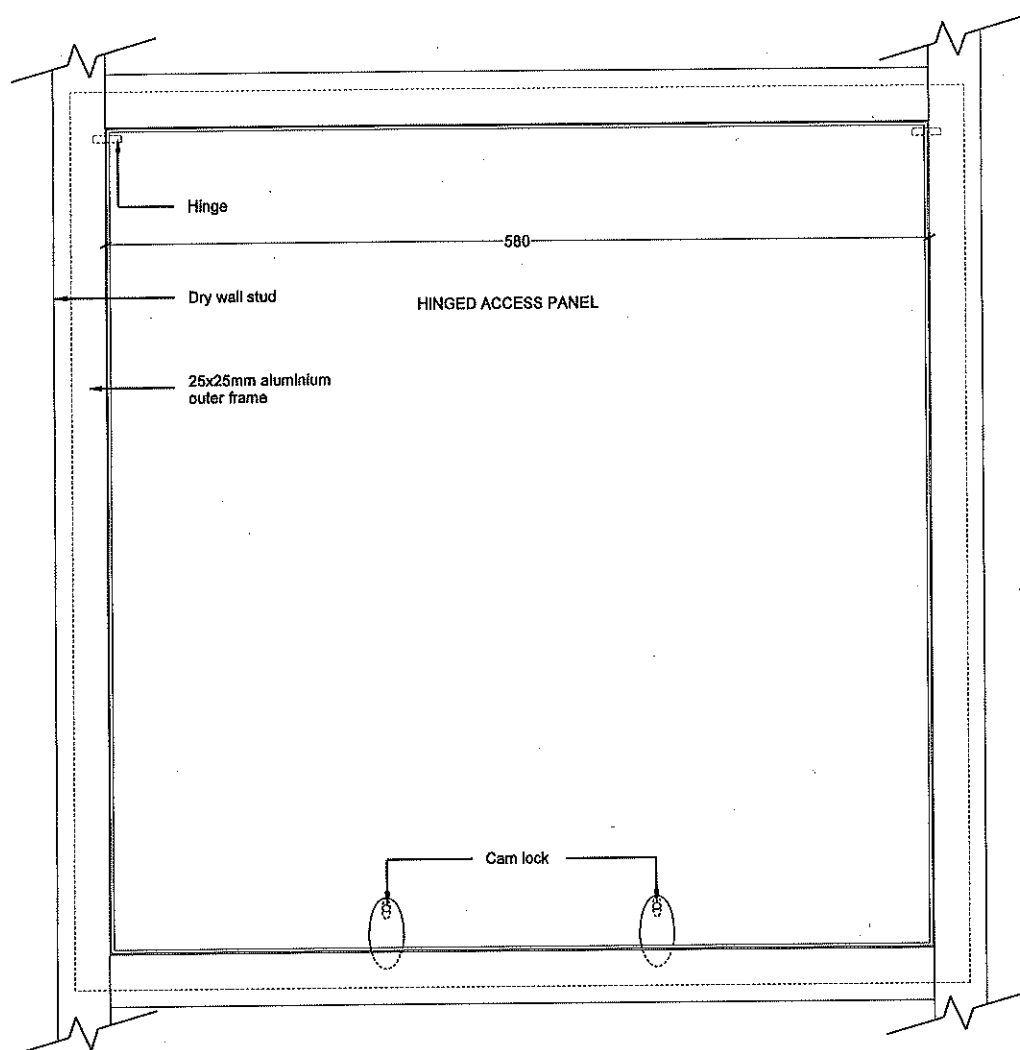
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-045-S01-S04
DATE:			
ISSUED:	8-Aug-17		

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Pelican Systems ceiling access panel comprising 635 x 635mm White epoxy coated aluminium T-frame with 580 x 580mm White epoxy coated steel bottom hinged pan, fitted flush to flush plaster steel T-suspension ceiling, pop rivetted through stalk of T-frame into 25 x 25mm galvanised steel angle.

Exact position to be confirmed to suit ceiling substructure

NOTE:
ALL INSTALLATION TO
COMPLY WITH
MINIMUM STANDARDS
AS PRESCRIBED BY
MANUFACTURER

DRAWING DESCRIPTION:

SCALE:

CEILING (PLASTER BOARD) TRAP DOOR DETAIL PLAN

1:5

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PROJECT TITLE

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CANZIBE HOSPITAL"

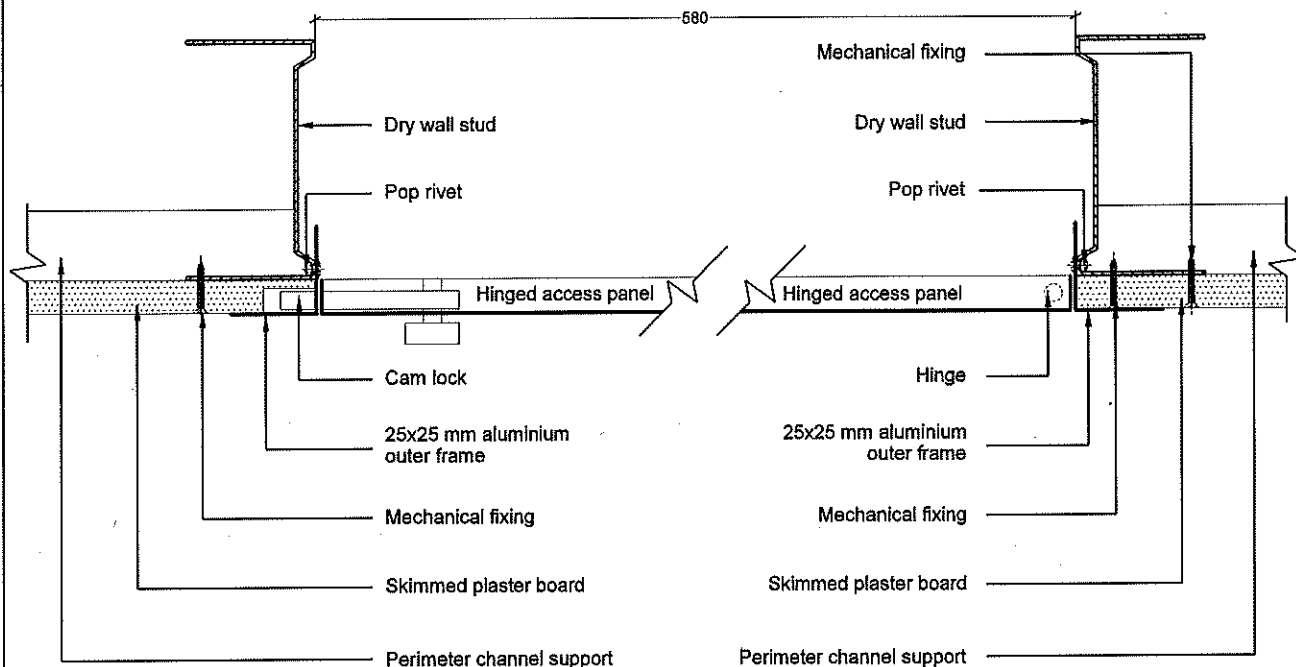
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00	P2-20080-1-ORT01
DATE:		7-Aug-17	1-044-001
ISSUED:	7-Aug-17		



Pelican Systems ceiling access panel comprising 635 x 635mm White epoxy coated aluminium T-frame with 580 x 580mm White epoxy coated steel bottom hinged pan, fitted flush to flush plaster steel T-suspension ceiling, pop rivetted through stalk of T-frame into 25 x 25mm galvanised steel angle.

Exact position to be confirmed to suit ceiling substructure

NOTE:
ALL INSTALLATION TO
COMPLY WITH
MINIMUM STANDARDS
AS PRESCRIBED BY
MANUFACTURER

DRAWING DESCRIPTION:

SCALE:

CEILING (PLASTER BOARD) TRAP DOOR DETAIL SECTION

1:2

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PROJECT TITLE

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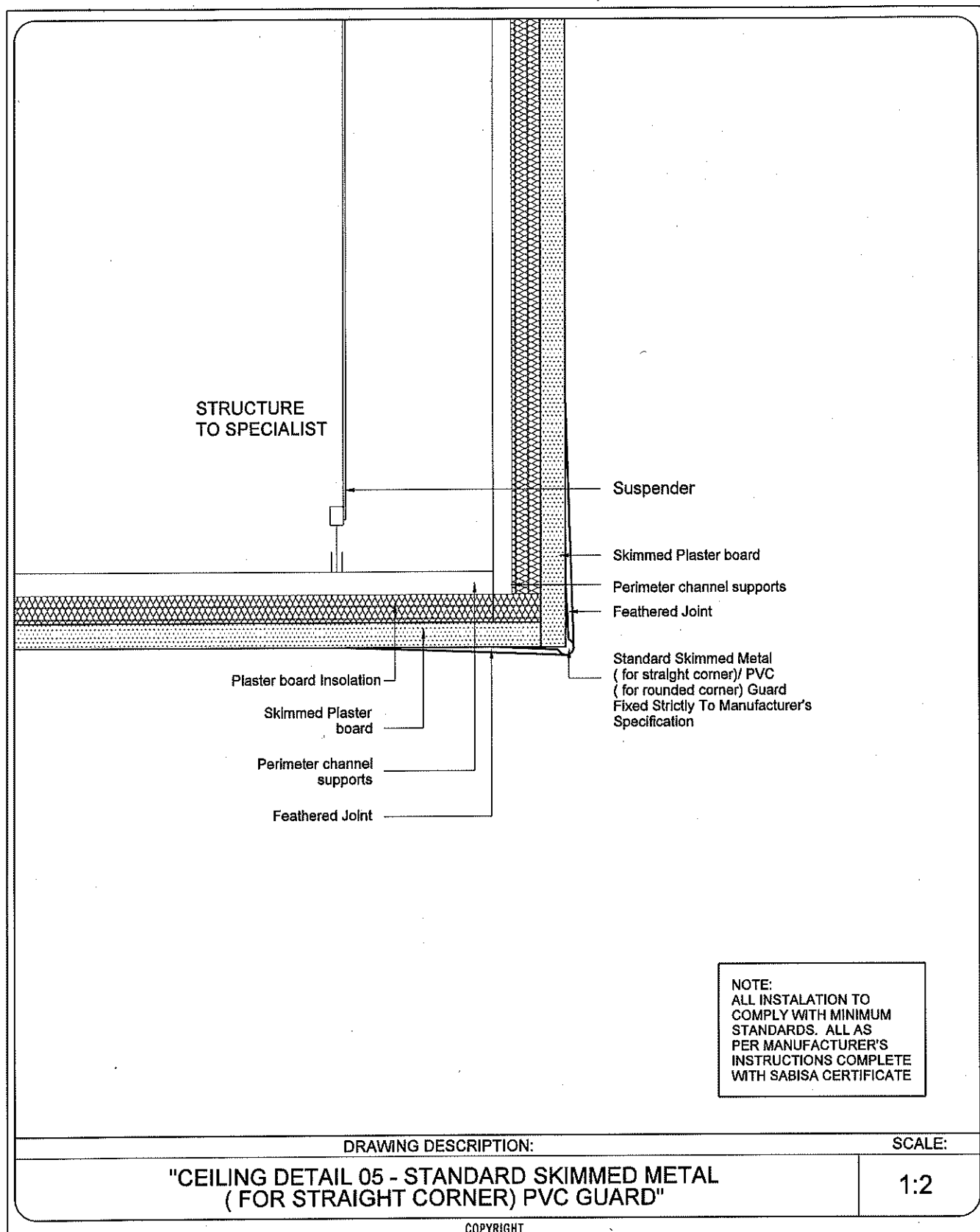
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00	P2-20080-1-ORT01
DATE:		7-Aug-17	1-044-002
ISSUED:	7-Aug-17		

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PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	SVR /	PR00 14-Aug-17	P2-20080-1-ORT01 1-044-005
DATE:			
ISSUED:	15-Aug-17		

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Parkland High Security Gate/ Panel Preambles:

Manufacturer:

Purpose Made High Security Gates as by Parkland (+27 31 700 5990). This specification covers material requirements and installation of security gates. Furnish and install fence and gates, and accessories as required and shown. CSIR, SABS, North Atlantic Treaty Organization (NATO) and International Aviation Authority Organization (ICAO).
 CSIR Test - 980289, 050036, 050056, T09998.
 SABS Test - 2536/YM139
 Nato Stock - 5600/99-458-7474
 CAO - ICAO Security Manual

Gate Description:

- Gates shall be installed at the locations shown. Hinged gates shall be mounted to swing as indicated. Latches, stops, and keepers shall be installed as required. Slide gates shall be installed as recommended by the manufacturer.
- Adjust gate to operate smoothly, easily, and quietly, free from binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- Lubricate hardware and other moving parts.
- All components shall be galvanized then Maine Fusion Bond Coated

Panel Description:

- Panel shall be of size to suit Gate/Panel
- Panel aperture size (centers) shall be 76.2 mm x 12.7 mm
- Panel shall be flat (Without "V" Formation)
- Panel shall be installed with rivnuts and countersunk corrosion proof hex screws at max 381mm c/c as per detail drawings
- Panel and fixtures shall be galvanized then Maine Fusion Bond Coated

Gate Frame Description:

Swing Gates:

- All connections and joints shall be welded to form rigid frames or assembled with corner fittings.
- Hinges shall not twist or turn under the action of the gate, shall be so arranged that a closed gate cannot be lifted off the hinges to obtain entry.

Sliding Gates:

- Gate frame fabrication and miscellaneous items shall be similar to Swing Gates.
- All fittings, brackets and rear wheel tracks shall be standard manufactured products for the intended application.
- 0 mm to 3 500 mm long sliding gate frames, to be constructed with 50 x 50 mm Mild steel square hollow sections, in accordance with Structural Engineer detail design unless otherwise specified.
- 3 500 mm to 7 500 mm long sliding gates frames, to be constructed with 75 x 75 mm Mild steel square hollow section, in accordance with Structural Engineer detail design unless otherwise specified.

Additions:

- A 100 mm high toughened steel Shark Tooth spike shall be affixed to panel edge, internally at 150 mm intervals using Anti-vandal bolts.
- Spike finish shall be Hot Dipped Galvanized then Marine Fusion Bond coated.
- Fence Corner Configuration. The fence configuration should not have any sharp corners and all angles at changes of direction should be a minimum of 130 degrees.

DRAWING DESCRIPTION:

SCALE:

PARKLAND HIGH SECURITY GATE/ PANEL PREAMBLES PAGE 1

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PROJECT TITLE

"ECDOH
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 CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-024
DATE:			
ISSUED:	9-Aug-17		

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Parkland High Security Gate/ Panel Preambles:

Posts Installation:

1. Post holes shall be cleared of loose material. Waste material shall be spread where directed by Engineer.
The ground surface irregularities along the fence line shall be eliminated to the extent necessary
2. Posts shall be set plumb, and follow the indicated alignment. All posts shall be set to the depth indicated on the design documents. Concrete shall be thoroughly consolidated around each post, free of voids, and finished with a domed shaped surface, with the base of dome at grade elevation. Concrete shall be allowed to cure prior to installing any additional components to the posts.
3. Concrete footings shall be carried down to at least the depth indicated on the design documents and shall not be smaller than the dimensions shown. Where a rock layer is encountered within the required depth to which the post is to be erected, a hole of a diameter slightly larger than the largest dimension of the post may be drilled into the rock and the post grouted in. Then the regular concrete footing shall be placed between the top of the rock and the top of the footing elevation as shown on the design documents. Posts shall be approximately centered in their footings. All concrete shall be placed promptly and consolidated by tamping or other approved methods.
4. Where the ground is firm enough to permit excavation of the post hole to neat lines, the concrete may be placed without forms by completely filling the hole. Curing may be achieved by covering the concrete with not less than four inches of loose moist material immediately after placing concrete, or by using a curing compound. All excess material from footings, including loose material used for curing, shall be disposed of as directed by the Engineer
5. Where the ground cannot be satisfactorily excavated to neat lines, forms shall be used to place concrete for footings. Under these conditions the earth and forms coming in contact with the concrete shall be moistened and all ponded water shall be removed from the hole prior to placing concrete. When forms are removed, the footing shall be backfilled with moistened material, and thoroughly tamped. The top of the concrete shall then be covered with not less than 100 mm (4 in) of loose moistened material or use curing compound if the 7-days cure is not completed. All excess material from footings, including loose material used for curing, shall be disposed of as directed.

GENERAL NOTES:

1. All dimension to be controlled on site prior to any manufacturing.
2. Shop drawings and sample to be approved by Architect prior to any Manufacturing.
3. All steel materials shall be of good commercial quality, galvanized steel.
4. All pipes shall be galvanized, one piece without joints. Furnish moisture proof caps for all posts.
5. Zinc coating shall be smooth and essentially free from lumps, globs, or points.
6. Miscellaneous material shall be galvanized.
7. All posts shall be set in minimum 14 MPa (2000 psi) (28-day compressive strength) concrete, 25 mm (1 in) aggregate; no air entrapment.
8. Install all fencing and gates in accordance with the drawings, specifications, instructions, and as specified lines and grades indicated. Line posts shall be spaced at intervals not exceeding 3.3 m (10 ft). Terminal posts shall be set at abrupt changes in vertical and horizontal alignment.
9. All elements & members as by Cochrane Parkland or equally approved.
10. Galvanising Note (all members): All weld splashes to be removed and welds to be buffed smooth on completion. All posts, frames cover plates and hinge brackets to be hot dip galvanised after manufacture.
11. 0 mm to 7 000 mm long sliding gate, to be read in conjunction with detail drawing 070-740.
12. + 7 000 mm long sliding gate, to be read in conjunction with detail drawing 070-739.

DRAWING DESCRIPTION:

PARKLAND HIGH SECURITY GATE/ PANEL PREAMBLES PAGE 2

SCALE:

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CANZIBE HOSPITAL"

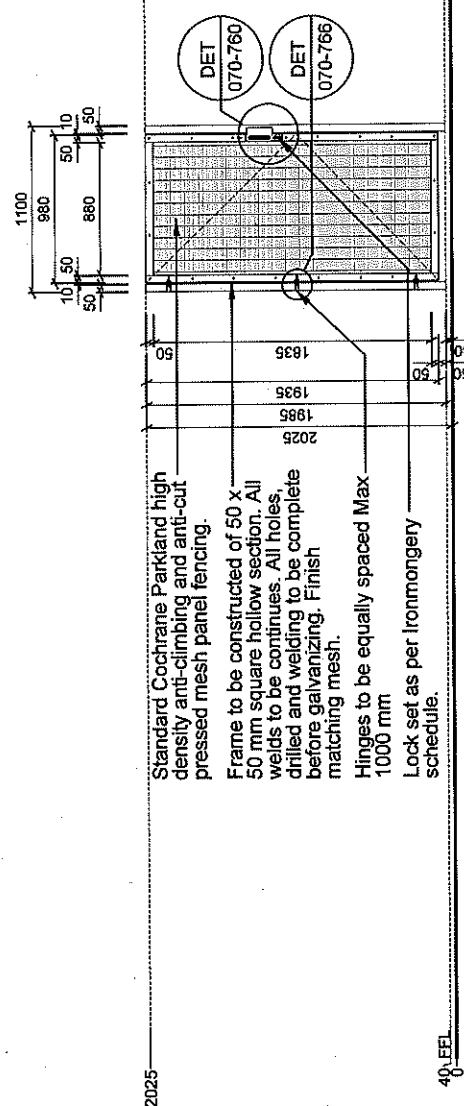
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-025
DATE:			
ISSUED:	9-Aug-17		

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NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-024 & 070-025,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - SEC-PS001

1:50

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CANZIBE HOSPITAL"

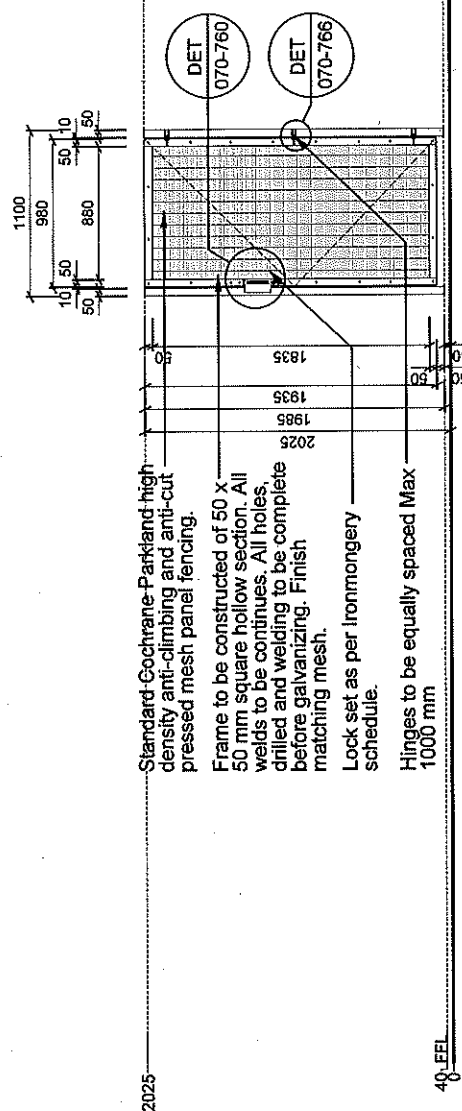
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-SEC-PS001
DATE:			
ISSUED:	9-Aug-17		

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NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-024 & 070-025,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - SEC-PS002

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PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-SEC-PS002
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NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-024 & 070-025,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure

SCALE:

1:50

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PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-SEC-PS003
DATE:			
ISSUED:	9-Aug-17		

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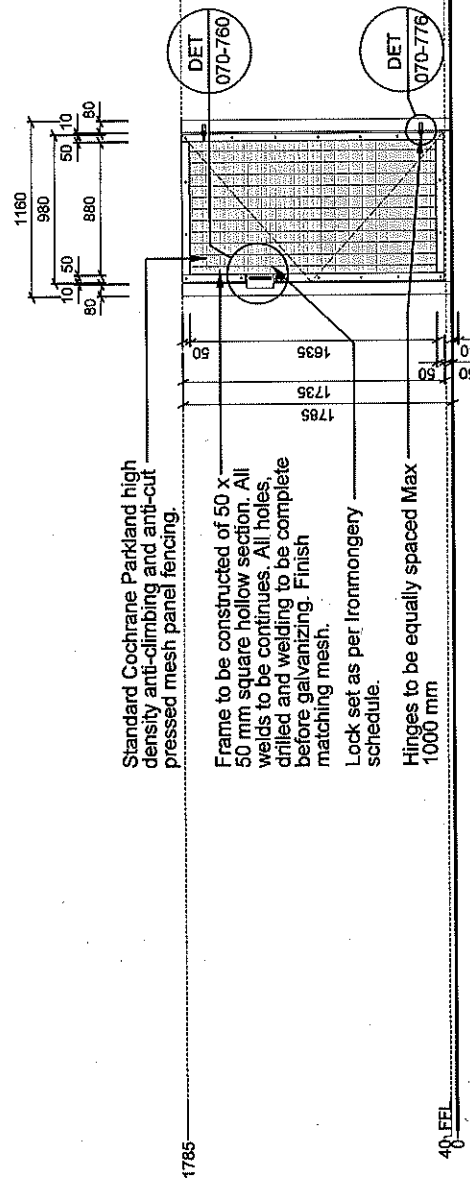
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-SEC-PP001
DATE:			
ISSUED:	9-Aug-17		

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NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-022 to 070-025,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - SEC-PS004

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PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 17-Aug-17	P2-20080-1-ORT011-070-SEC-PS004
DATE:			
ISSUED:	18-Aug-17		

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NOTE:

1. This drawing must be read in conjunction with Preambles drawing 070-022 to 070-025,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure

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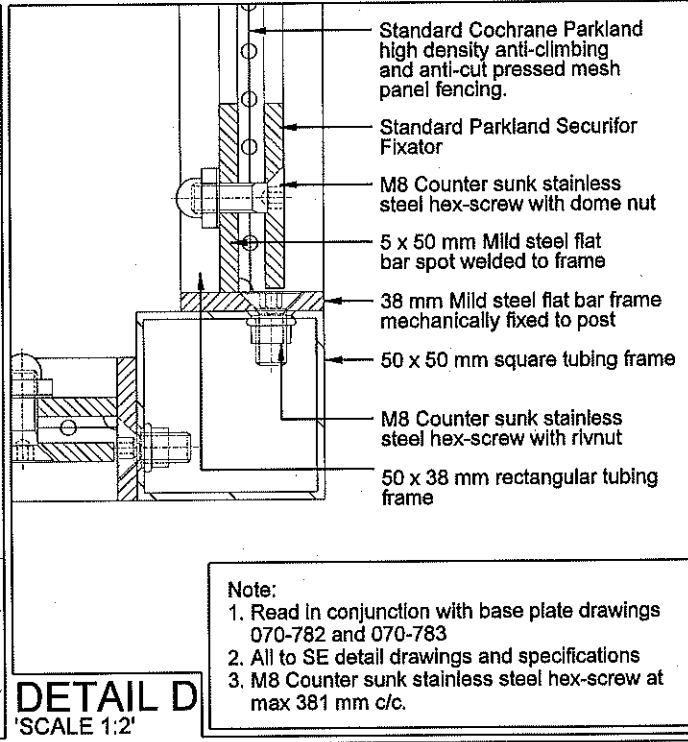
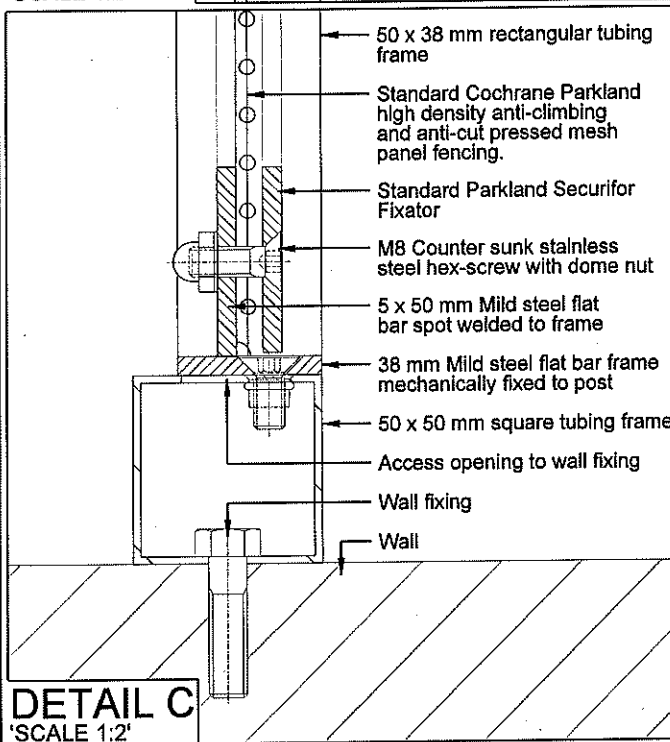
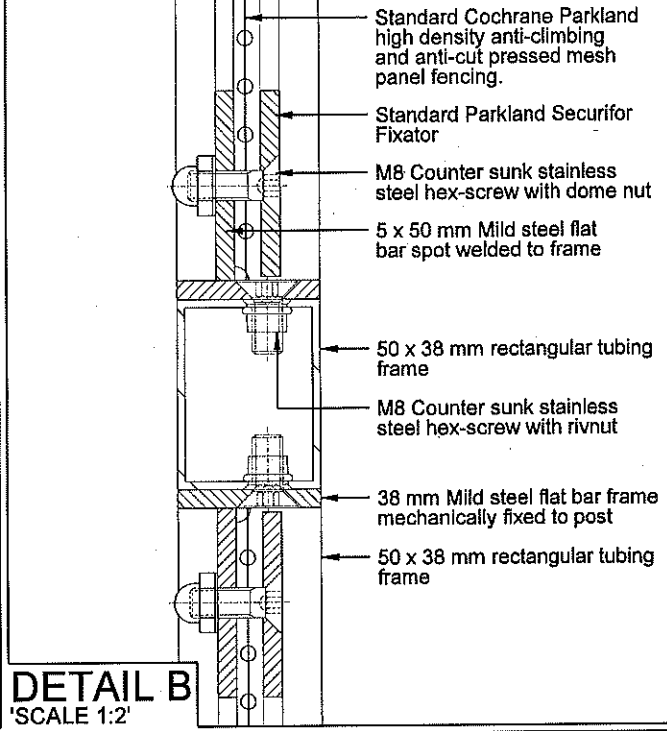
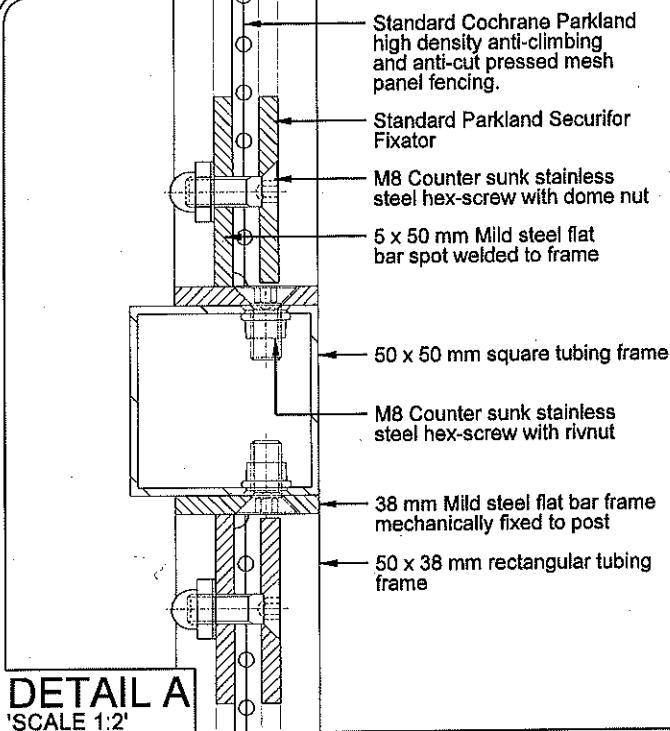
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 17-Aug-17	P2-20080-1-ORT011-070-SEC-PS008
DATE:			
ISSUED:	18-Aug-17		

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Note:

1. Read in conjunction with base plate drawings 070-782 and 070-783
2. All to SE detail drawings and specifications
3. M8 Counter sunk stainless steel hex-screw at max 381 mm c/c.

- NOTE:**
1. This drawing must be read in conjunction with Preambles drawing 070-024 to 070-025,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure
 4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

PARKLAND - PANEL - PANEL TO 50 x 50 AND 50 X 38 POST FIXING DETAIL

1:2

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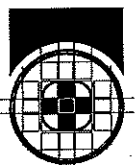
PROJECT TITLE

"ECDOH
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CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-781
DATE:			
ISSUED:	9-Aug-17		

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Mild Steel Door Preambles:

Government Institutions - A3, E1, E2, E3

Door frame description:

Standard mild steel door frame with dimensions and configuration as shown by Durowin best quality section or similar approved.

Frame finish:

Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/ mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Professional High Build Zinc Phosphate Primer (UC 170) with an overcoating time of 16 hours and finish with two coats of Plascon Velvagio Satin (VLO) to achieve complete obliteration, allowing 16 hours drying between coats. For a maintenance cycle of 3 years in a C5-Coastal/ Marine environment. Colour to Architect's approval.

Glazing specifications:

Minimum 6 mm NS PVB Laminate Safety Glass (sans 1263-1) for all panels of window/ shopfronts/ doors etc. Glazing type (obscure/ clear/ one-way) refer to room data schedule. Obscured glazing to be -Type: Pacific or equal approved. One-way glazing to client's approval. Tinted glazing - if required colour and type to Architects approval. All to comply with National Building Regulations/ SAGGA minimum specifications.

Furniture

Best quality brass fittings complete with screws and bolts to Architects approval.

Security Gate:

None

GENERAL NOTES:

1. Please ensure that frames/ glazing are not installed premature during wet trade. Further it is the Contractor full responsibility to ensure that all frames and glazing is well protected during construction phase to avoid any permanent damage.
2. All dimensions to be controlled on site prior to any manufacturing.
3. Shop drawings and sample to be approved by Architect prior to any manufacturing.
4. Door swing as shown on Plan - Elevation is only a Schematic drawing.
5. Manufacturer to ensure that opening section furniture is suitable design size.

DRAWING DESCRIPTION:

MILD STEEL DOOR PREAMBLE

SCALE:

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"ECDOH
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OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	/	PR00	P2-20080-1-OR
DATE:		15-Aug-17	T011-070-031
ISSUED:	15-Aug-17		

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Aluminium Window Preambles:

Government Institutions - A3, E1, E2, E3

Manufacturer:

Purpose Made Aluminium windows as by Wispeco (011 389 0000) to suit required site specific wind load.
All to AAAMSA Standards and Architects approval.

Frame description:

Purpose Made Aluminium window frame (Casement 34, with 64 mm mullions, pending detail design by Specialist) in configuration as shown. With or without opening sections as shown. Complete with heavy-duty hinges (to accommodate restrictors), latches and restrictors (Securistyle SDR4 or equally approved). All opening sections of windows to be restricted to Max. 150mm opening (provide service key to override restriction to 90° opening for maintenance/ cleaning). Waterproof frame surround and joints with an approved soft seal. All to AAAMSA Standards and Architects approval.

Glazing specifications:

Minimum 6 mm clear NS PVB Laminate Safety Glass (sans 1263-1) for all panels of window/ shopfronts/ doors etc. Glazing type (obscure/ clear/ one-way) refer to room data schedule. Obscured glazing to be -Type: Pacific or equal approved. One-way glazing to client's approval. Tinted glazing - if required colour and type to Architects approval. All to comply with National Building Regulations/ SAGGA minimum specifications.

Formica panel specifications:

Product: PG Bison 6mm thick Formica Solid Core Exterior grade Luna DFL, a self-supporting, water resistant, pre-finished decorative product with high resistance to mechanical, chemical, heat and environmental damage laminated on both sides and constructed in accordance with the drawings. Colour to ARCHITECTS approval. Installation: Installed with standard glazing method to suit window/ shop front etc.

Frame finish:

Polyester powder coated (50 - 100µ thick)

GENERAL NOTES:

1. Please ensure that frames/ glazing are not installed premature during wet trade. Further it is the Contractor full responsibility to ensure that all frames and glazing is well protected during construction phase to avoid any permanent damage.
2. All dimensions to be controlled on site prior to any manufacturing.
3. Shop drawings and sample to be approved by Architect prior to any manufacturing.
4. Manufacturer to ensure that opening section furniture is suitable design size.
5. All Window drawings must be read in conjunction with Detail drawing.
6. All openings to be constructed with a template frame. Note the frame to be 10mm larger all-round to allow for in- and external plaster, furthermore frame to be sealed watertight with an approved UV sterilized soft sealant all-round.
7. Manufacturer to ensure that opening section furniture is suitable design size.
8. Solid aluminium panels in all windows to be Sheerline - Type: T-29 panels.
9. All Pharmacy windows to be fitted with heavy duty SaviEURO wedgeless casement lockable window handles WH003B as by Savignac or equally approved Tel: 082 906 7194/5/207.
10. Use anti-magnetic stainless steel screws and pop rivets.

DRAWING DESCRIPTION:

SCALE:

MILD STEEL WINDOW PREAMBLE

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CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	/	PR00	P2-20080-1-OR
DATE:		15-Aug-17	T011-060-931
ISSUED:	15-Aug-17		

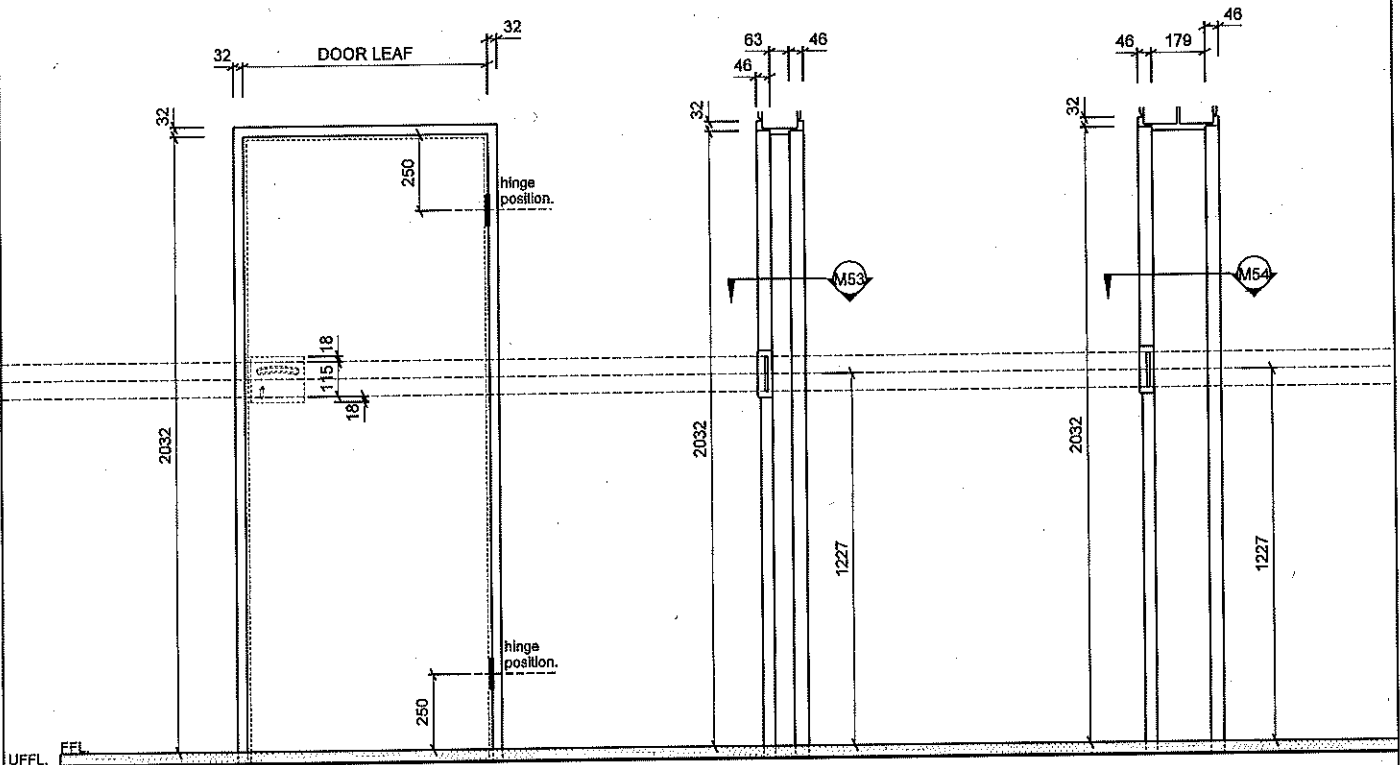
HOSPITAL DESIGN GROUP

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NOTE : REBATE ON DOORS

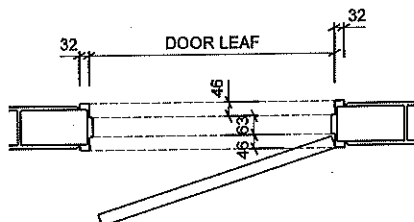
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2. ALL INTERNAL DOUBLE DOORS TO HAVE NO REBATE.
3. ALL EXTERNAL DOUBLE DOORS TO HAVE REBATE.



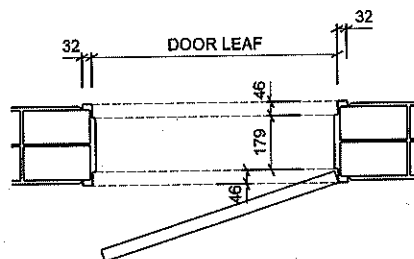
TYPICAL ELEVATION

M53 - TYPICAL SECTION

M54 - TYPICAL SECTION



M53 - SINGLE DOOR FRAME (115mm)



M54 - SINGLE DOOR FRAME (230mm)

DRAWING DESCRIPTION:

"STANDARD SINGLE DOOR FRAME DETAIL
M53 & M54 WITHOUT FANLIGHT."

SCALE:

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PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-230
DATE:			
ISSUED:	9-Aug-17		

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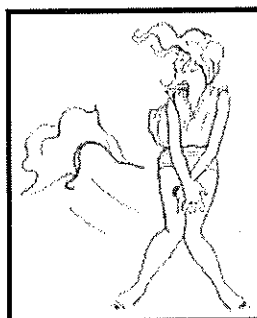


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SELECTION OF PRODUCT PERFORMANCE CRITERIA

To meet with the requirements of the
NATIONAL BUILDING REGULATIONS & BUILDING STANDARDS ACT (ACT 103 OF 1977) as amended
AAAMSA PRODUCT PERFORMANCE CRITERIA, being A0, A1, A2 & A3, must be selected as follows...

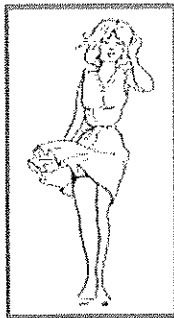
TERRAIN CATEGORY AS PER SABS 0160	HEIGHT FROM GROUND TO HEAD OF PRODUCTS IN METRES			
	5	10	15	20
CATEGORY 1	A2	A3	A3	A3
CATEGORY 2	A2	A2	A3	A3
CATEGORY 3	A0	A1	A1	A2
CATEGORY 4	A0	A1	A1	A2



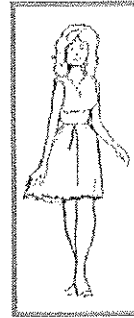
CATEGORY 1
OPEN SEA, LAKE SHORES
& FLAT TREELESS PLAINS



CATEGORY 2
AIRFIELDS, OPEN
PARKLANDS
OR FARMLAND &
UNDEVELOPED
OUTSKIRTS OF
TOWNS & SUBURBS



CATEGORY 3 & 4
BUILT UP AREAS OR CITY CENTRES



NOTE: This information is a guide only. The specifier must establish the actual windload requirements.

PRODUCT PERFORMANCE

... AAAMSA PERFORMANCE CRITERIA ...

TEST	CLASS DESIGNATION				REQUIREMENT
	A0	A1	A2	A3	
DEFLECTION (POSITIVE & NEGATIVE) UNDER UNIFORM LOADING Pa	800Pa	1000Pa	1500Pa	2000Pa	MAXIMUM DEFLECTION 1/175 OF SPAN OR 20mm, WHICHEVER IS LESS (2)
STRUCTURAL PROOF LOADING 1,5 x UNIFORM LOADING	900Pa	1500Pa	2250Pa	3000Pa	NO FAILURE ALLOWED
WATER RESISTANCE UNDER A PRESSURE OF x Pa	X = 140	X = 140	X = 300	X = 300	NO LEAKAGE WHEN SUBJECTED TO A FLOW OF 0,05 l/(s.m²)
AIR LEAKAGE THROUGH SPECIMEN UNDER PRESSURE DIFFERENCE OF 75Pa	Y = 2,5	Y = 2,5	Y = 1,5	Y = 1,5	NOT MORE THAN Y l/s PER m OF MATING LENGTH (1)

- 1 ... MATING LENGTH - The length of the mating surfaces of opening lights & the fixed frames
2 ... MAXIMUM DEFLECTION for FRAMING using SIGU's is 1/300 of span or 8mm - whichever is less
3 ... see AAAMSA SELECTION GUIDES (under publications)
It is highly recommended that only AAAMSA Members holding the correct Test Certificate be invited to tender.
Only AAAMSA Members have access to the AAAMSA testing apparatus & therefore only members of this Association will possess the AAAMSA Test Certificate.
See current edition of AAAMSA Matrix of Test Certificates to determine which members qualify in the specified product & performance category.

DRAWING DESCRIPTION:

SAGGA GLASS INSTALLATION INFORMATION PAGE 1

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PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-080-951
DATE:			
ISSUED:	7-Aug-17		

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1. . . SASH LIMITATIONS . . .

DOOR CONTROL SELECTOR GUIDE	OVERHEAD SURFACE MOUNTED CLOSERS							FLOOR SPRINGS		TRANSOM CONCEALED CLOSER		INDOOR CONCEALED CLOSER		DOOR SELECTOR		ELECTRO MAGNETIC HOLD OPEN DEVICE	
TYPE OF DOOR (UP TO 1400mm WIDE)	REGULAR ARM (DOOR MOUNTED)	REGULAR ARM (FRAME MOUNTED)	PARALLEL ARM	HOLD OPEN	BACK CHECK	DELAYED ACTION	SLIDE CHANNEL	SINGLE ACTION	DOUBLE ACTION	SINGLE ACTION	DOUBLE ACTION	INDOOR CONCEALED CLOSER	DOOR SELECTOR				
INTERIOR DOOR - SINGLE	●	●	●				●	●	●	●	●	●					
EXTERIOR DOOR - INWARD OPENING	●			●			●	●	●	●	●	●					
EXTERIOR DOOR - OUTWARD OPENING		●	●	●			●	●	●	●	●	●					
INTERIOR DOOR - LIMITED SPACE	●	●	●	●	●			●	●	●	●	●	●				
INTERIOR FIRE DOOR - SINGLE	●		●					●	●	●	●	●		●			
INTERIOR FIRE DOOR - DOUBLE	●		●					●	●	●	●	●		●			
EXTERIOR FIRE DOOR - DOUBLE	●	●						●	●	●	●	●		●			
INT/EXT DOOR - HIGH TRAFFIC								●	●	●	●	●					
INT/EXT PARAPLEGIC (RIGHT ACTION)	●	●	●			●		●	●	●	●	●					
WIDE DOOR (OVER 1400mm)								●	●	●	●	●					
HEAVY DOOR (OVER 120 kg)								●	●	●	●	●					
DOOR WITH CONCEALED CLOSER								●	●	●	●	●	●				
CLEAN/HYGICENIC AREAS								●	●	●	●	●	●				

DOORS

RT STYLES
(50mm)
1000w X 2200h

R4 STYLES
(100mm)
1200w X 2700h

R1 STYLES
(50mm)
1000w X 2200h

R4 STYLES
(100mm)
1200w X 2700h

NOTE ALUMINIUM DOORS MAY HAVE A FIRE RATING OF MAXIMUM 30 MINUTES WHEN USED WITH APPROPRIATE GLAZING MATERIALS.

STAINLESS STEEL FRICTION STAY LIMITATIONS

▼ TOP HUNG WINDOWS . . .



26mm
SYSTEMS
600w X 600h



28 - 32mm
SYSTEMS
900w X 600h



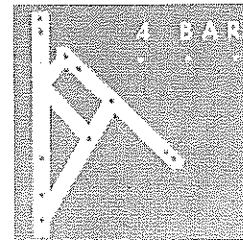
33mm
& over
SYSTEMS
900w X 1200h



600w X 1200h

● TOP HUNG ~ 4 BAR . . .

REF. No.	MAX VENT HEIGHT ~ mm	MAX VENT WIDTH ~ mm	MAX VENT WEIGHT ~ kg	ANGLE OF OPENING ~ degrees
203	300	1100	7	70
254	375	1100	8	57
300	450	1100	10	90
406	600	1100	13	90
508	750	1100	16	50
610	900	1100	26	60
570 HD	1200	1100	40	90



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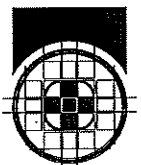
PROJECT TITLE

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OR TAMBO - CLUSTER 1
CANTZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
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DATE:			
ISSUED:	7-Aug-17		

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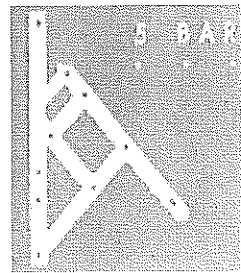
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● TOP HUNG ~ 5 BAR...

REF. No.	MAX VENT HEIGHT ~ mm	MAX VENT WIDTH ~ mm	MAX VENT WEIGHT ~ kg	ANGLE OF OPENING ~ degrees
300	1200	600	13.5	90



... GLASS SIZE LIMITATIONS ...

To meet the requirements
of the NATIONAL BUILDING REGULATIONS & BUILDING STANDARDS ACT (ACT 103 OF 1977) as amended
Glass & Glazing must adhere to SABS 0137 as follows ...

NORMAL GLASS THICKNESS	MAXIMUM SIZE OF PANE ~ M ²
3	0.75
4	1.5
5	2.1
6	3.2

... SAFETY GLAZING ...

- All Safety Glazing materials (individual panes) shall be permanently marked.
Such marking to be visible after glazing

... IF IT IS NOT MARKED ... IT IS NOT SAFETY GLASS ...

- All skylights, overhead & msloped glazing shall be of Safety Glazing materials.

▼ Areas of vertical Safety Glazing

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**SAGGA GLASS INSTALLATION
INFORMATION PAGE 3**

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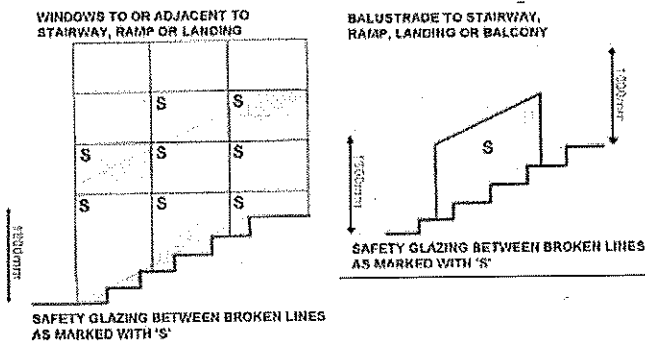
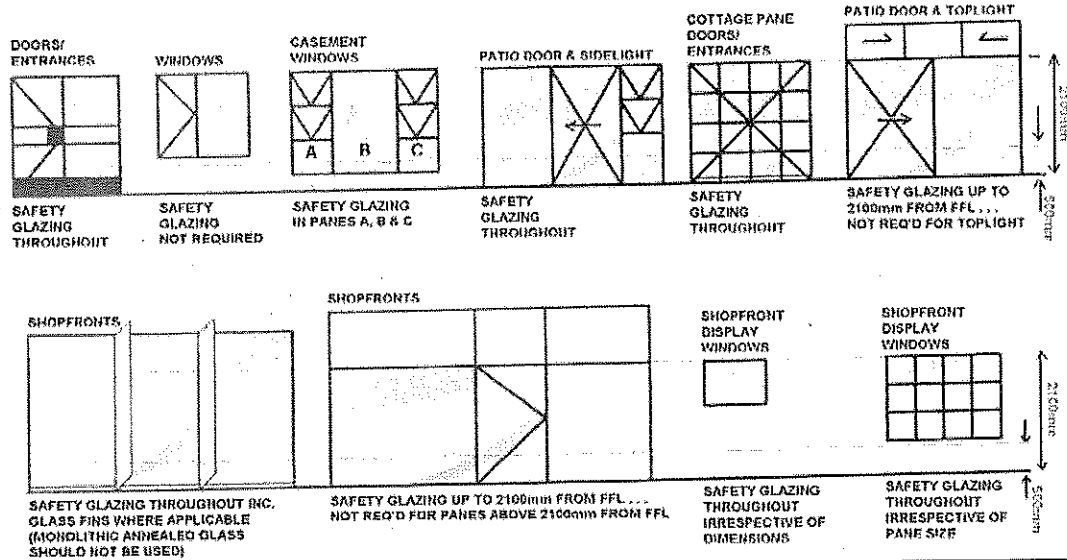
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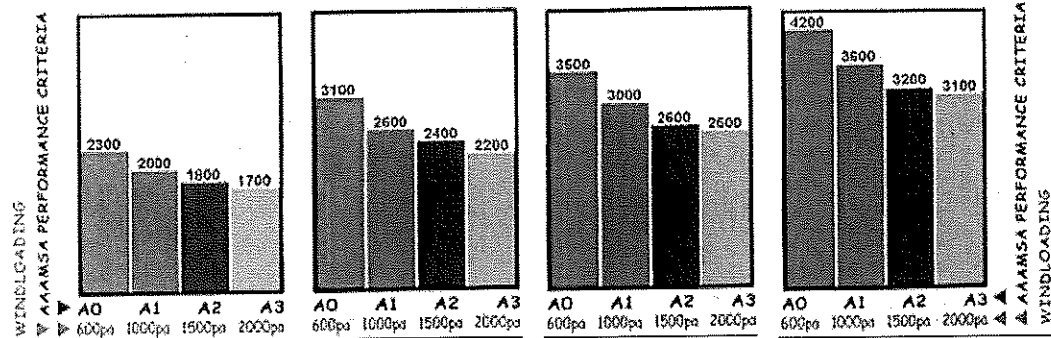
WHITE AREAS
DO NOT REQUIRE SAFETY GLASS

● ALL INFORMATION, RECOMMENDATION OR ADVICE CONTAINED IN THIS DOCUMENT IS GIVEN IN GOOD FAITH, TO THE BEST OF AAAMSA'S KNOWLEDGE & BASED ON CURRENT PROCEDURES IN EFFECT.

● BECAUSE THE ACTUAL USE OF THIS DOCUMENT BY THE USER IS BEYOND CONTROL OF AAAMSA, SUCH USE IS WITHIN THE EXCLUSIVE RESPONSIBILITY OF THE USER.

● AAAMSA CAN NOT BE HELD RESPONSIBLE FOR ANY LOSS INCURRED THROUGH INCORRECT OR FAULTY USE OF THE DOCUMENT.

SHOPFRONT MULLION/TRANSOM SELECTION GUIDE



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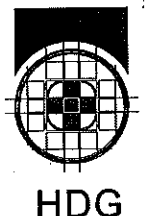
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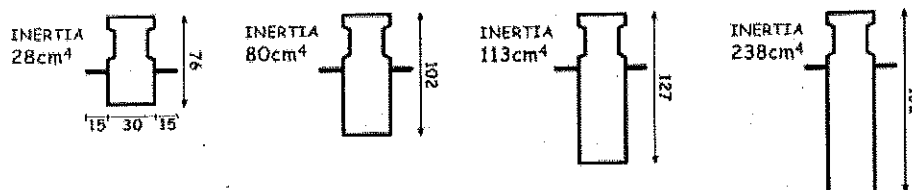
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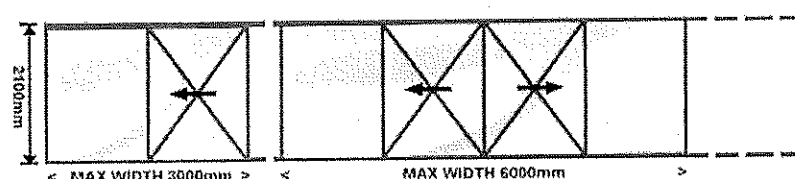




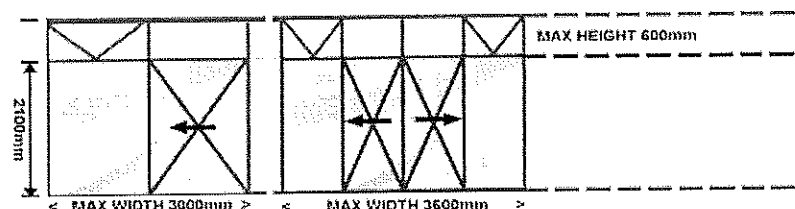
NOTE The above graphs are indicative only & variations may occur between the various shopfront systems.
Please consult the system Supplier's technical information to confirm the actual mullion/transom limitations.
The above graphs are based on 1600mm spacings

PATIO DOOR / SIDE LIGHTS / TOPLIGHTS

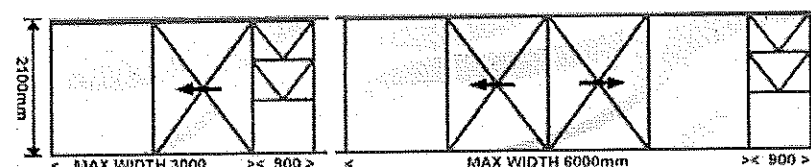
● STANDARD CONFIGURATIONS . . .



STANDARDS PATIO DOORS . . .
ONLY SUITABLE FOR
A0 & A1 PERFORMANCE
CRITERIA



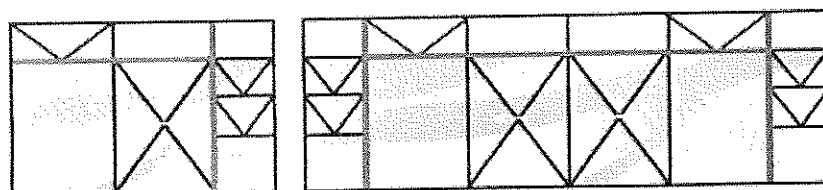
STANDARDS PATIO DOORS &
TOPLIGHT CONFIGURATIONS . . .
ONLY SUITABLE FOR
A0 & A1 PERFORMANCE
CRITERIA



STANDARDS PATIO DOORS &
SIDELIGHT
CONFIGURATIONS . . .
ONLY SUITABLE FOR
A0 & A1 PERFORMANCE
CRITERIA

NOTE Consult the system Supplier for products suitable for use in A2 & A3 Performance Criteria as well as for products exceeding the above dimensions in any way

● NON - STANDARD CONFIGURATIONS . . .



COMBINATIONS OF
STANDARD
PATIO DOORS,
SIDELIGHTS &
TOPLIGHTS CAN ONLY BE
ALLOWED WHEN
APPROPRIATE
ADDITIONAL MULLIONS /
TRANSOMS (INDICATED
THUS) ARE SELECTED IN
STRICT
ACCORDANCE WITH THE
MULLION/TRANSOM
SELECTION
GUIDE

NOTE Consult the system Supplier in every instance.

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SAGGA GLASS INSTALLATION INFORMATION PAGE 5

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DRAWN:	JLVZ /	PR00	P2-20080-1-ORT011-060-955
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- 1 Obtain relevant AAAMSA PERFORMANCE CERTIFICATE prior to commencement of the site activities.
- 2 Obtain AFSA CERTIFICATE of CONFORMANCE in respect of product finishes such as anodising & powder coating.
- 3 Obtain a GUARANTEE on powder coating of no less than 10 years against peeling & discolouration.
- 4 Obtain a WARRANTY in laminated glass against delamination & colour degradation for a period not less than 5 years.
- 5 All Safety Glazing materials (individual panes) shall be permanently marked.
Such marking to be visible after glazing

... IF IT IS NOT MARKED ... IT IS NOT SAFETY GLASS ...

... FINISHES ...

2.1 ANODISING ...

All anodising shall be executed in strict adherence to SABS 999.
(architect to specify colour & anodic film thickness ... i.e. 15 or 25 microns)

2.2 POWDER COATING ...

All powder coating shall be executed only by applicators approved by the powder manufacturers & shall be executed strictly in conformance with SABS 1796.
(architect to specify type ... Interpon D, Vedoc or other ... & colour)
A GUARANTEE of no less than 10 years is to be provided against peeling & discolouration.

... GLASS & GLAZING ...

3.1 GENERAL ...

Glazing shall be executed in strict conformance with glass manufacturer's recommendations & all in accordance with the NATIONAL BUILDING REGULATIONS Part N, SABS 0137, SABS 0400, SABS 1263 & AAAMSA SELECTION GUIDE for SAFETY GLAZING MATERIALS.

A WARRANTY is to be provided that the manufacturer of the laminated safety glass and/or the hermetically sealed glazing units warrants the product against delamination & colour degradation for a period not less than 5 (five) years.

3.2 STRUCTURAL GLAZING ...

In case of structural glazing written proof is to be provided that all stages of fabrication & installation have been executed with disciplined quality assurance in accordance with the relevant parts of SABS ISO 9000.

Written confirmation of compatibility of structural sealant with extrusion surface, glazing tape & glass is to be supplied by the structural sealant manufacturer together with the regular relevant test reports regarding the adhesion of the sealant to the aluminium frame in accordance with ASTM/C 794-80 (STANDARD TEST for ADHESION-IN-PEEL of ELASTOMETRIC JOINT SEALANTS)

3.3 SAFETY GLAZING ...

All Safety Glazing materials (individual panes) shall be permanently marked.
Such marking to be visible after glazing and registered at Redcap industries.

... IF IT IS NOT MARKED ... IT IS NOT SAFETY GLASS ...

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SAGGA GLASS INSTALLATION INFORMATION PAGE 6

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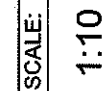
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DRAWING DESCRIPTION:

STAINLESS STEEL BALUSTRADE

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ECC00H FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIEB HOSPITAL			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	Kvdb	PR00 14-Aug-17	P2-20080-1-OR T011-040-001
DATE:			
ISSUED:	14-Aug-17		

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Aluminium Door Preambles:

Government Institutions - A3, E1, E2, E3

Manufacturer:

Purpose Made Aluminium doors as by Wispeco (011 389 0000) to suit required site specific wind load.
All to AAAMSA Standards and Architects approval.

Frame description:

Purpose Made Aluminium door and frame (Clip 44, with 150 mm mullions, pending detail design by Specialist) in configuration as shown, complete with wool piles all-round to ensure a dust proof seal, to suite hinge or over head transom closer as specified elsewhere. With or without opening sections as shown. Complete with heavy-duty hinges (to accommodate restrictors), latches and restrictors (Securistyle SDR4 or equally approved). All opening sections of windows to be restricted to Max. 150mm opening (provide service key to override restriction to 90° opening for maintenance/ cleaning). Waterproof frame surround and joints with an approved soft seal. All to AAAMSA Standards and Architects approval.

Glazing specifications:

Minimum 6 mm clear NS PVB Laminated Safety Glass (sans 1263-1) for all panels of window/ shopfronts/ doors etc. Glazing type (obscure/ clear/ one-way) refer to room data schedule. Obscured glazing to be -Type: Pacific or equal approved. One-way glazing to client's approval. Tinted glazing - if required colour and type to Architects approval. All to comply with National Building Regulations/ SAGGA minimum specifications.

Formica panel specifications:

Product: PG Bison 6mm thick Formica Solid Core Exterior grade Luna DFL, a self-supporting, water resistant, pre-finished decorative product with high resistance to mechanical, chemical, heat and environmental damage laminated on both sides and constructed in accordance with the drawings. Colour to ARCHITECTS approval. Installation: Installed with standard glazing method to suit window/ shop front etc.

Frame finish:

Polyester powder coated (50 - 100µ thick)

GENERAL NOTES:

1. Please ensure that frames/ glazing are not installed premature during wet trade. Further it is the Contractor full responsibility to ensure that all frames and glazing is well protected during construction phase to avoid any permanent damage.
2. All dimensions to be controlled on site prior to any manufacturing.
3. Shop drawings and sample to be approved by Architect prior to any manufacturing.
4. All door members to be min 85mm Sections as shown on Elevations.
5. Door swing as shown on Plan - Elevation is only a Schematic drawing.
6. Solid aluminium panels in all windows to be Sheerline - Type: T-29 panels.
7. All Door drawings must be read in conjunction with Detail drawing.
8. All openings to be constructed with a template frame. Note the frame to be 10mm larger all-round to allow for in- and external plaster, furthermore frame to be sealed watertight with an approved UV sterilized soft sealant all-round.
9. Manufacturer to ensure that opening section furniture is suitable design size.
10. Use anti-magnetic stainless steel screws and pop rivets.

DRAWING DESCRIPTION:

SCALE:

ALUMINIUM DOOR PREAMBLES

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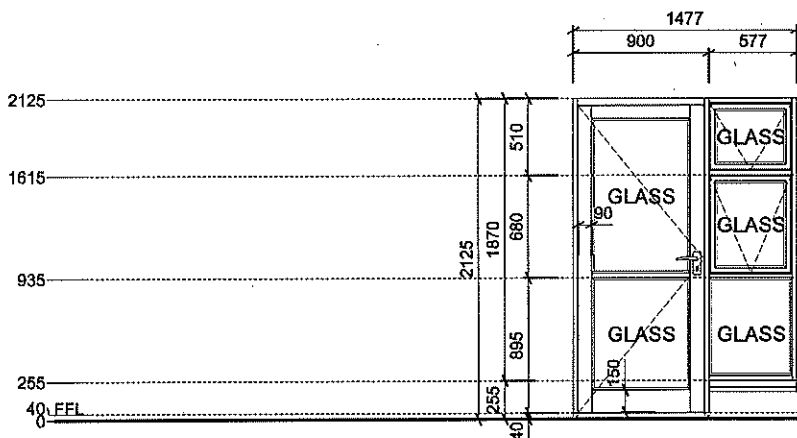
PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-002
DATE:			
ISSUED:	9-Aug-17		

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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-002, SAGGA Glass Installation Information 060-951 to 060-956
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - ALTS001

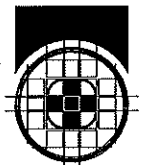
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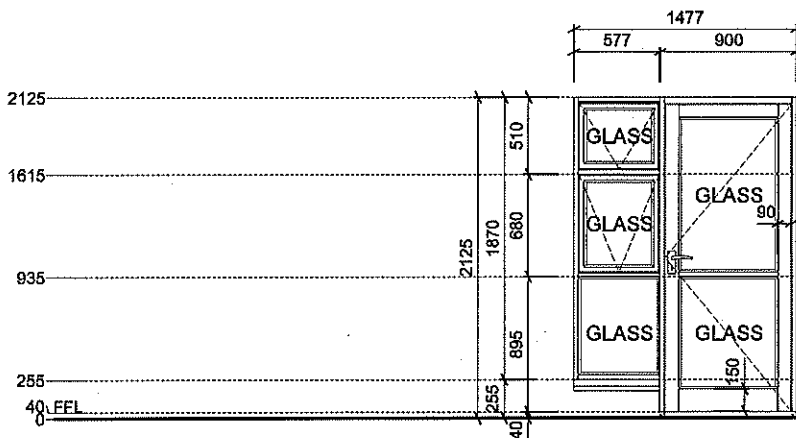
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"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-002,
SAGGA Glass Installation Information 060-951 to 060-956
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

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DOOR TYPE - ALTS002

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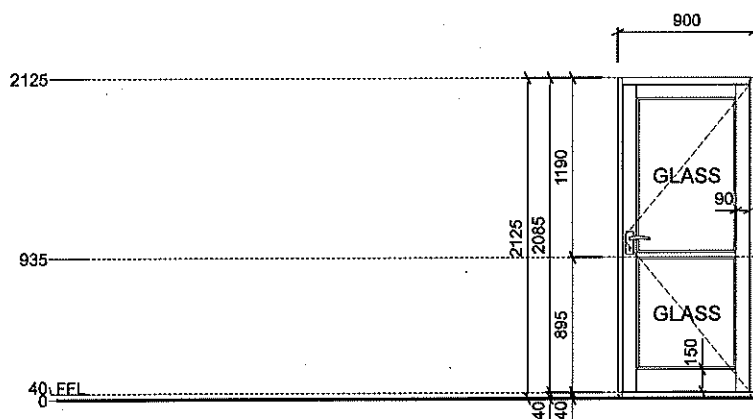
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALTS002
DATE:			
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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-002, SAGGA Glass Installation Information 060-951 to 060-956
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

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DOOR TYPE - ALTS003

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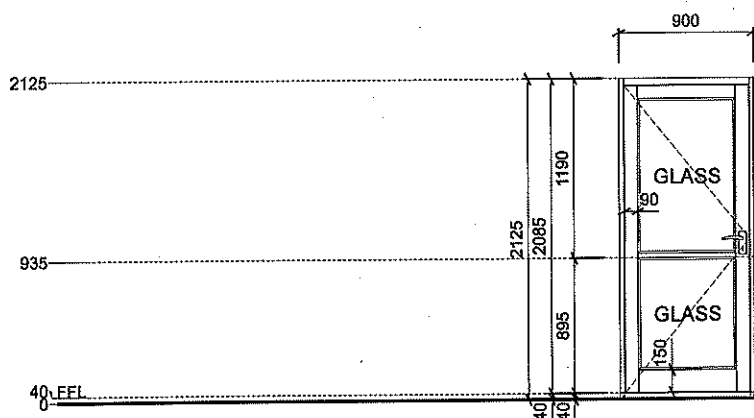
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALTS003
DATE:			
ISSUED:	9-Aug-17		

HOSPITAL DESIGN GROUP

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 E-mail: hdg@hdg.co.za



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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-002, SAGGA Glass Installation Information 060-951 to 060-956
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
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DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - ALTS004

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PROJECT TITLE

"ECDOH
 FACILITY MAINTENANCE
 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

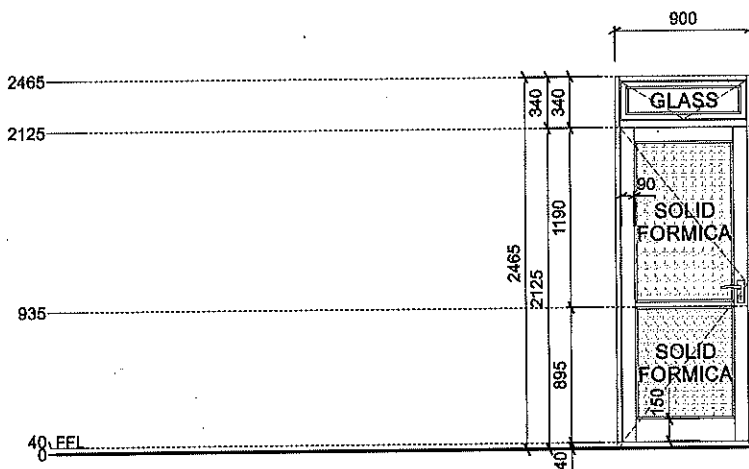
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALTS004
DATE:			
ISSUED:	9-Aug-17		

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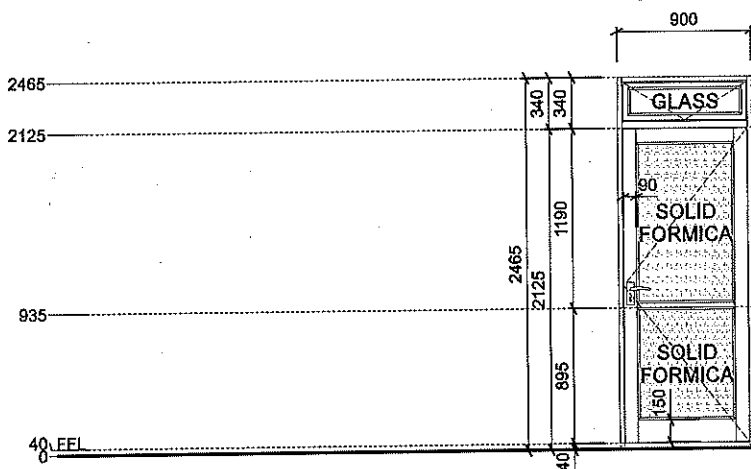
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALTS005
DATE:			
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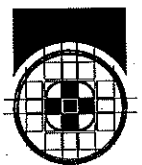
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"ECDOR"
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

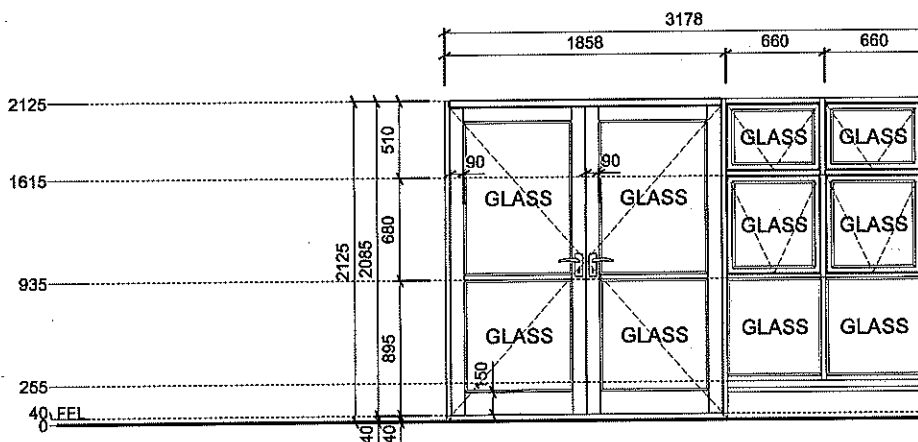
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALTS006
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SCALE:

DOOR TYPE - ALTD001

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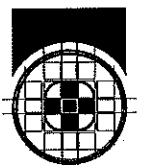
PROJECT TITLE

"ECDOH
 FACILITY MAINTENANCE
 OR TAMBO - CLUSTER 1
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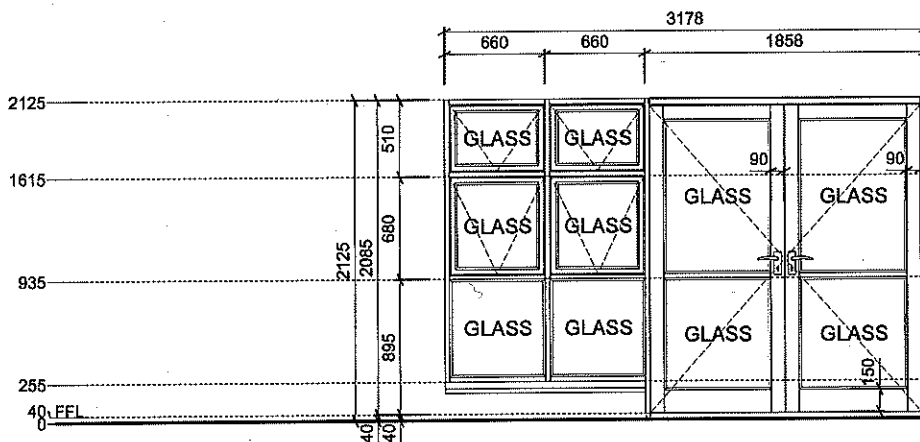
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALTD001
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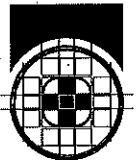
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PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00	P2-20080-1-ORT011-070-ALTD002
DATE:		7-Aug-17	
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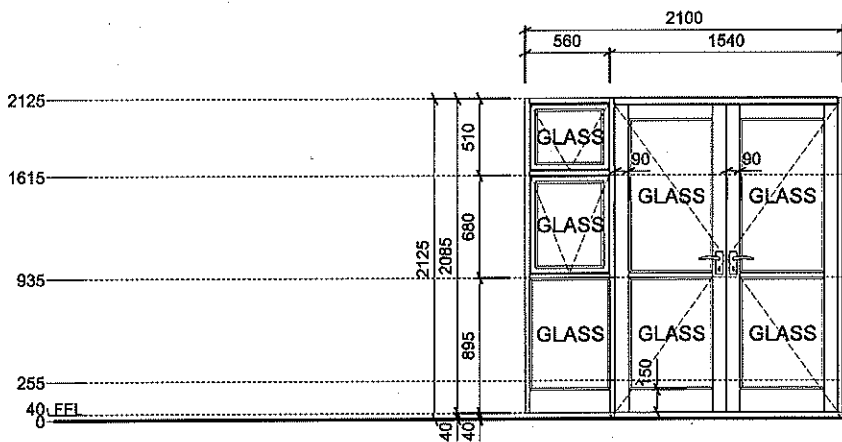


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PROJECT TITLE		
"ECDOH		
FACILITY MAINTENANCE		
OR TAMBO - CLUSTER 1		
CANZIBE HOSPITAL"		
PROJECT:	20080-1-ORT011	REV. NO
DRAWN:	JLVZ /	PR00 7-Aug-17
DATE:		
ISSUED:	9-Aug-17	
		DET. NO
		P2-20080-1-ORT011-070-ALTD003

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SAGGA Glass Installation Information 060-951 to 060-956
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DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - ALTD004

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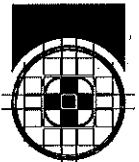
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"ECDOH
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OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

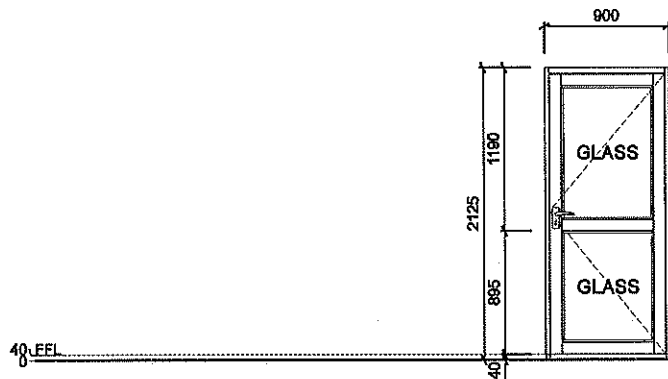
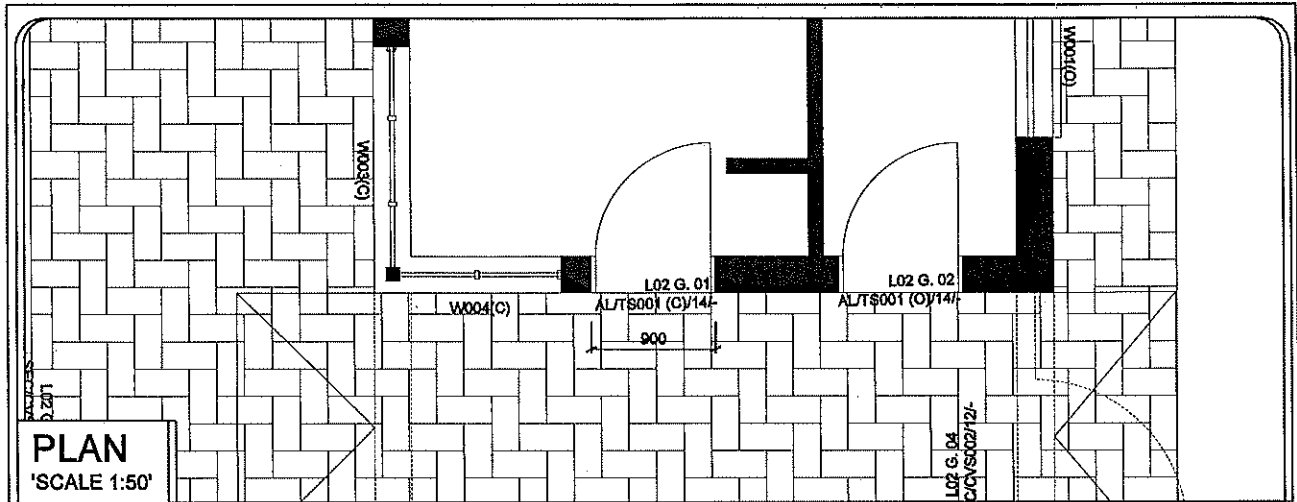
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DRAWN:	JLVZ /	PR00	
DATE:		7-Aug-17	P2-20080-1-ORT011-070-ALTD004
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DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - ALTS001 ALTS 007

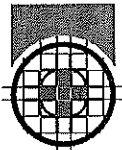
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PROJECT TITLE			
EGDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL			
PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	KvdB /	R00 18-Jul-17	20080-1-ORT01 -070-ALTS001
DATE:			
ISSUED:	18-Jul-17		

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ALTS007

Aluminium Window Preambles:

Government Institutions - A3, E1, E2, E3

Manufacturer:

Purpose Made Aluminium windows as by Wispeco (011 389 0000) to suit required site specific wind load. All to AAAMSA Standards and Architects approval.

Frame description:

Purpose Made Aluminium window frame (Casement 34, with 64 mm mullions, pending detail design by Specialist) in configuration as shown. With or without opening sections as shown. Complete with heavy-duty hinges (to accommodate restrictors), latches and restrictors (Securistyle SDR4 or equally approved). All opening sections of windows to be restricted to Max. 150mm opening (provide service key to override restriction to 90° opening for maintenance/ cleaning). Waterproof frame surround and joints with an approved soft seal. All to AAAMSA Standards and Architects approval.

Glazing specifications:

Minimum 6 mm clear NS PVB Laminate Safety Glass (sans 1263-1) for all panels of window/ shopfronts/ doors etc. Glazing type (obscure/ clear/ one-way) refer to room data schedule. Obscured glazing to be -Type: Pacific or equal approved. One-way glazing to client's approval. Tinted glazing - if required colour and type to Architects approval. All to comply with National Building Regulations/ SAGGA minimum specifications.

Formica panel specifications:

Product: PG Bison 6mm thick Formica Solid Core Exterior grade Luna DFL, a self-supporting, water resistant, pre-finished decorative product with high resistance to mechanical, chemical, heat and environmental damage laminated on both sides and constructed in accordance with the drawings. Colour to ARCHITECTS approval. Installation: Installed with standard glazing method to suit window/ shop front etc.

Frame finish:

Polyester powder coated (50 - 100µ thick)

GENERAL NOTES:

1. Please ensure that frames/ glazing are not installed premature during wet trade. Further it is the Contractor full responsibility to ensure that all frames and glazing is well protected during construction phase to avoid any permanent damage.
2. All dimensions to be controlled on site prior to any manufacturing.
3. Shop drawings and sample to be approved by Architect prior to any manufacturing.
4. Manufacturer to ensure that opening section furniture is suitable design size.
5. All Window drawings must be read in conjunction with Detail drawing.
6. All openings to be constructed with a template frame. Note the frame to be 10mm larger all-round to allow for in- and external plaster, furthermore frame to be sealed watertight with an approved UV sterilized soft sealant all-round.
7. Manufacturer to ensure that opening section furniture is suitable design size.
8. Solid aluminium panels in all windows to be Sheerline - Type: T-29 panels.
9. All Pharmacy windows to be fitted with heavy duty SaviEURO wedgeless casement lockable window handles WH003B as by Savignac or equally approved Tel: 082 906 7194/5/207.
10. Use anti-magnetic stainless steel screws and pop rivets.

DRAWING DESCRIPTION:

SCALE:

ALUMINIUM WINDOW PREAMBLES

NTS

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PROJECT TITLE

"ECDOH
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CANZIBE HOSPITAL"

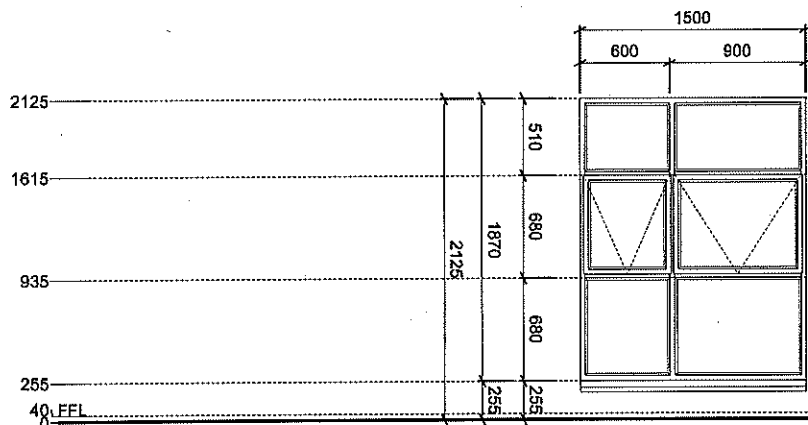
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00	P2-20080-1-ORT011-060-001
DATE:		7-Aug-17	
ISSUED:	7-Aug-17		

HOSPITAL DESIGN GROUP

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E-mail: hdg@hdg.co.za



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DRAWING DESCRIPTION:

SCALE:

WINDOW - W001

1:50

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PROJECT TITLE

"ECDOH
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 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

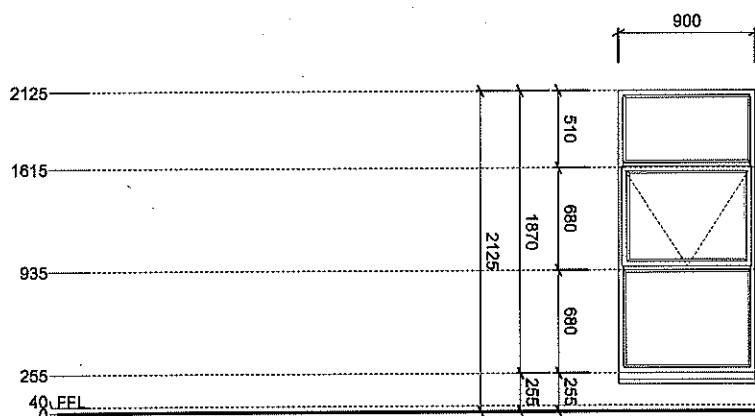
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-060-W001
DATE:			
ISSUED:	8-Aug-17		

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DRAWING DESCRIPTION:

SCALE:

WINDOW - W002

1:50

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PROJECT TITLE

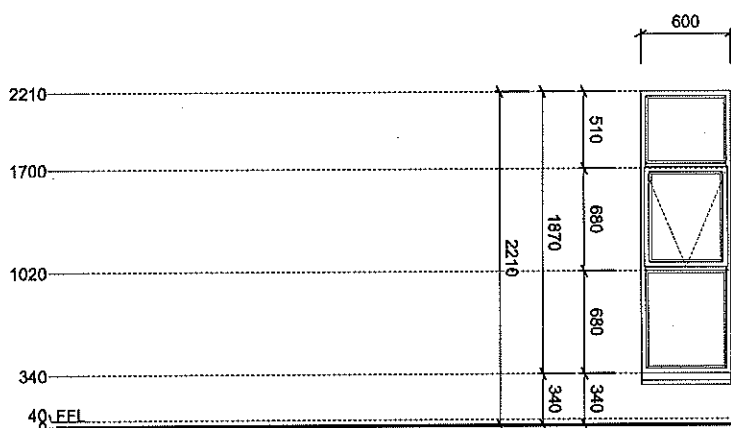
"ECDOH
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-060-W002
DATE:			
ISSUED:	8-Aug-17		

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DRAWING DESCRIPTION:

SCALE:

WINDOW - W003**1:50**

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PROJECT TITLE

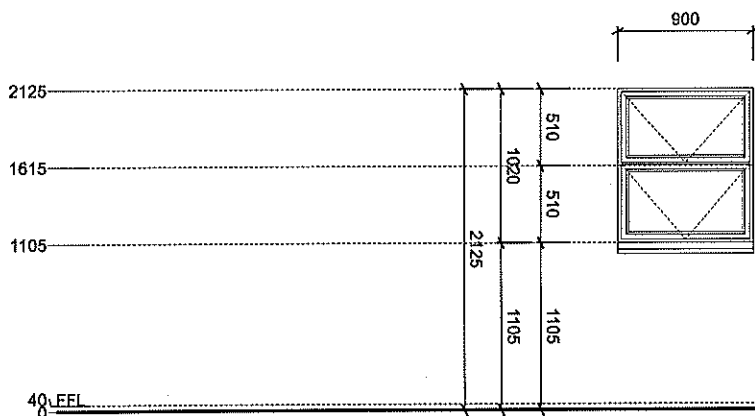
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00	P2-20080-1-ORT011-060-W003
DATE:		7-Aug-17	
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WINDOW - W004**1:50**

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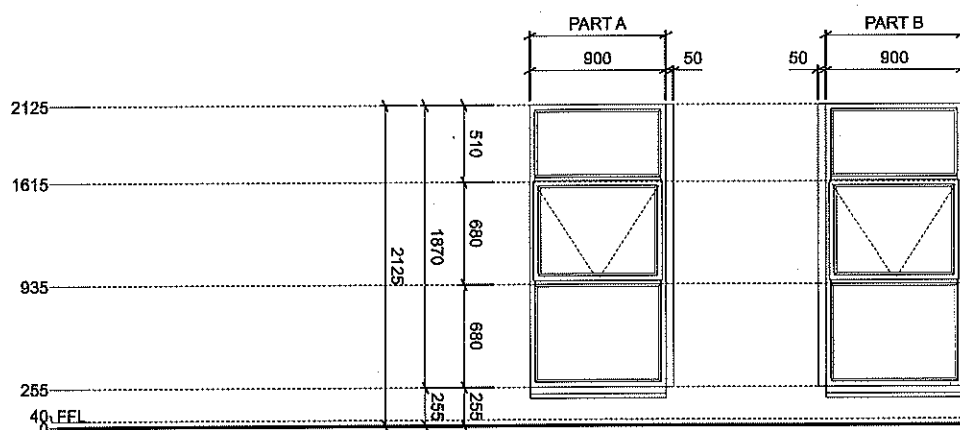
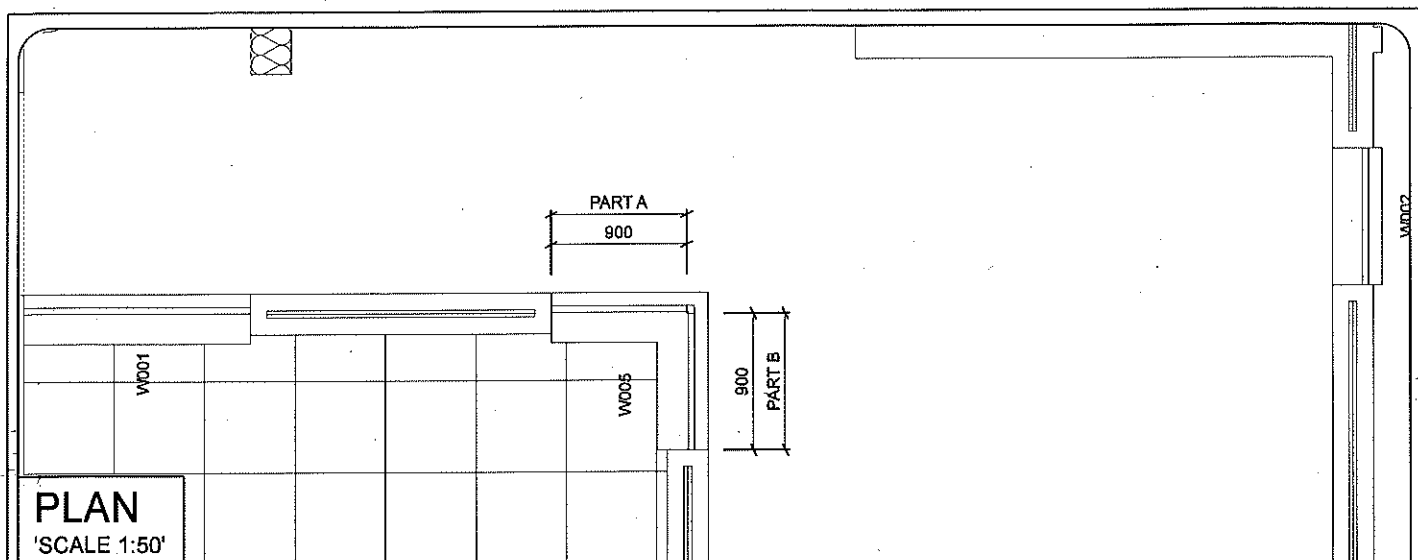
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-060-W004
DATE:			
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SCALE:

WINDOW - W005

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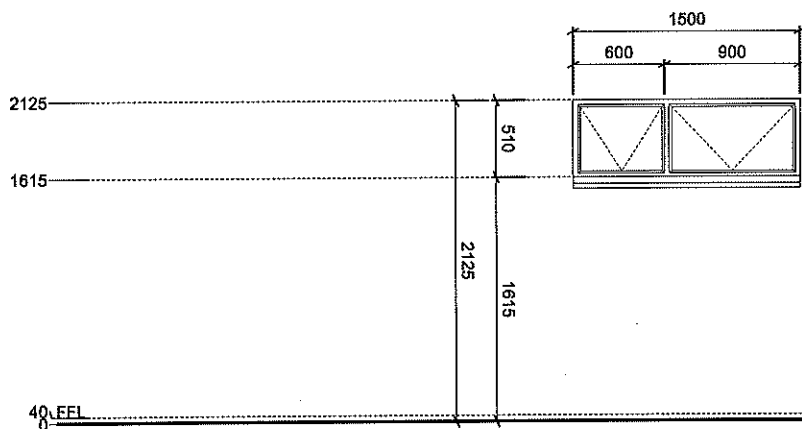
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DRAWN:	JLVZ /	PR00	P2-20080-1-ORT011-060-W005
DATE:		7-Aug-17	
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SCALE:

WINDOW - W006**1:50**

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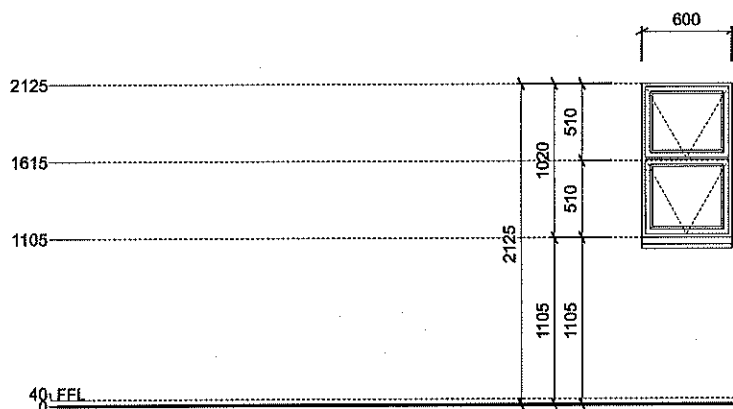
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
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DATE:			
ISSUED:	8-Aug-17		

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SCALE:

WINDOW - W007

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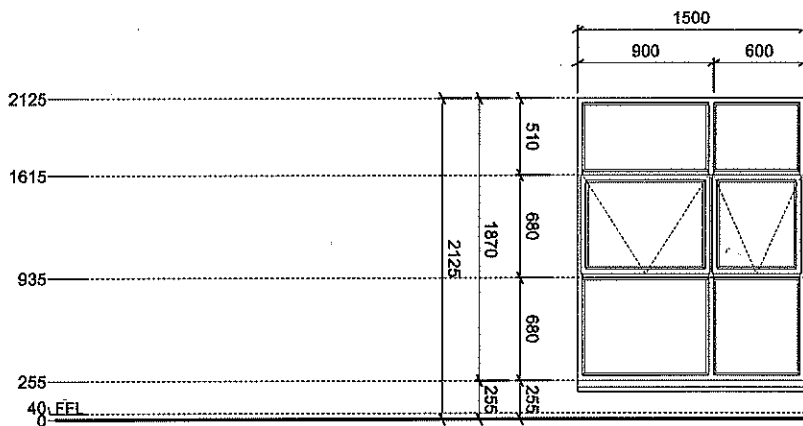
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DRAWN:	JLVZ /	PR00	P2-20080-1-ORT011-060-W007
DATE:		7-Aug-17	
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DRAWING DESCRIPTION:

SCALE:

WINDOW - W008**1:50**

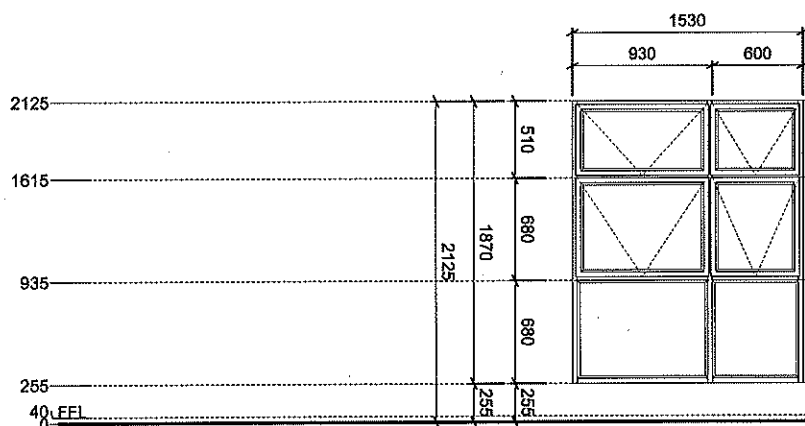
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"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-060-W008
DATE:			
ISSUED:	8-Aug-17		

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DRAWING DESCRIPTION:

SCALE:

WINDOW - W009**1:50**

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PROJECT TITLE

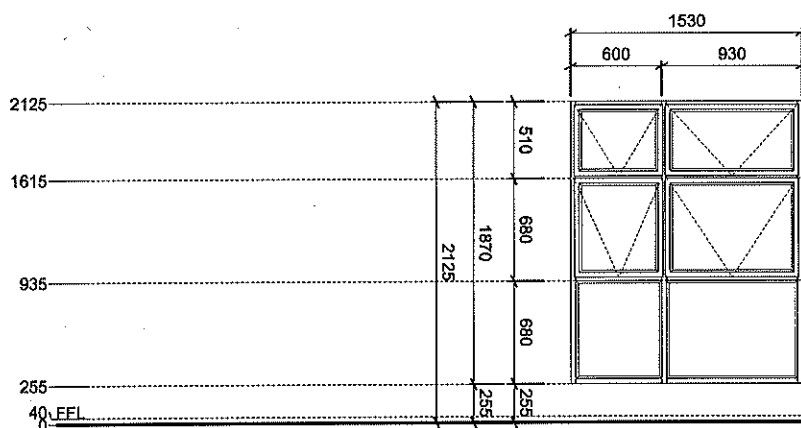
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 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-060-W009
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SCALE:

WINDOW - W010**1:50**

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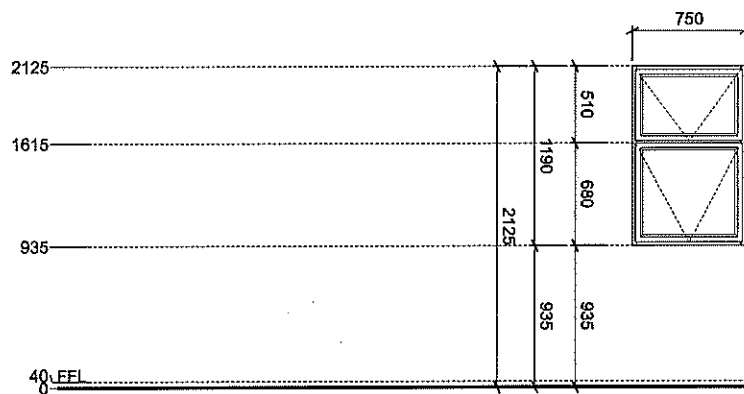
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OR TAMBO - CLUSTER 1
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-060-W010
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SCALE:

WINDOW - W011**1:50**

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PROJECT TITLE

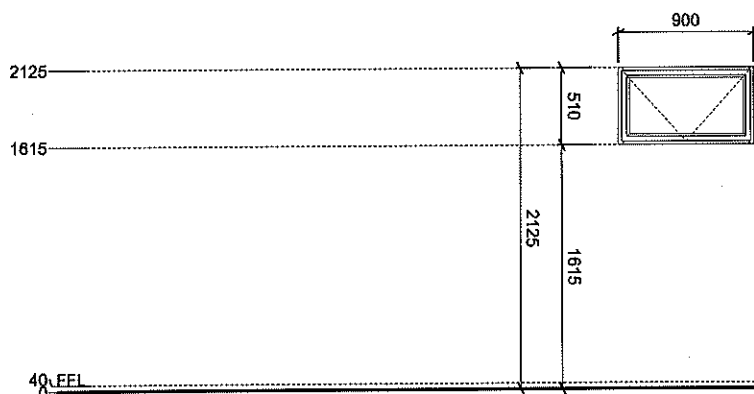
"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-060-W011
DATE:			
ISSUED:	10-Aug-17		

HOSPITAL DESIGN GROUP

P.O.Box 762, HARRISMITH, 9880
Tel:(058) 6223942, Fax:(058) 6230844,
E-mail: hdg@hdg.co.za

**HDG**



- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 060-901, SAGGA Glass Installation Information 060-951 to 060-956
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

WINDOW - W012**1:50**

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PROJECT TITLE

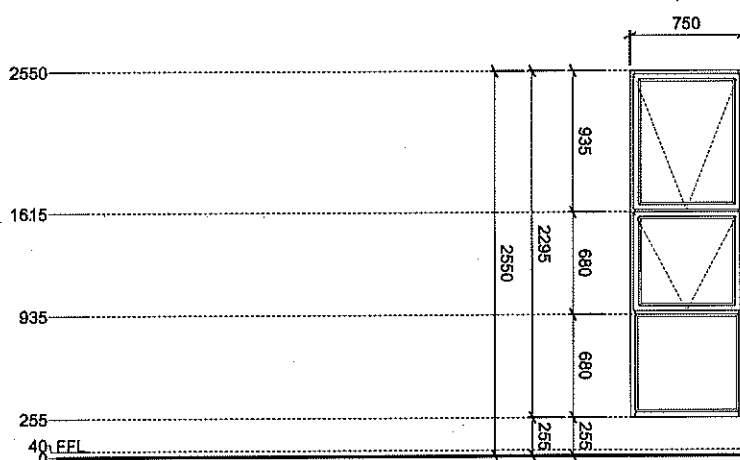
"ECDOH
 FACILITY MAINTENANCE
 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-060-W012
DATE:			
ISSUED:	10-Aug-17		

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 E-mail: hdg@hdg.co.za

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NOTE: 1. This drawing must be read in conjunction with Preambles drawing 060-901,
SAGGA Glass Installation Information 060-951 to 060-956
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

WINDOW - W013**1:50**

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PROJECT TITLE

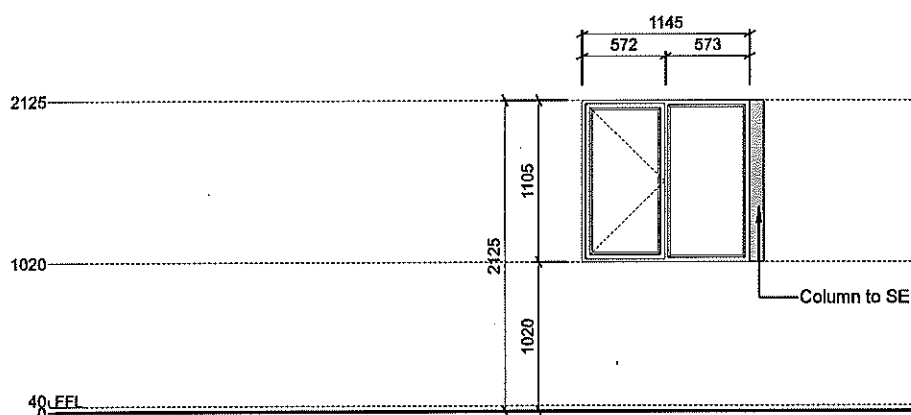
"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 10-Aug-17	P2-20080-1-ORT011-060-W013
DATE:			
ISSUED:	10-Aug-17		

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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 060-901, SAGGA Glass Installation Information 060-951 to 060-956
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

WINDOW - W014

1:50

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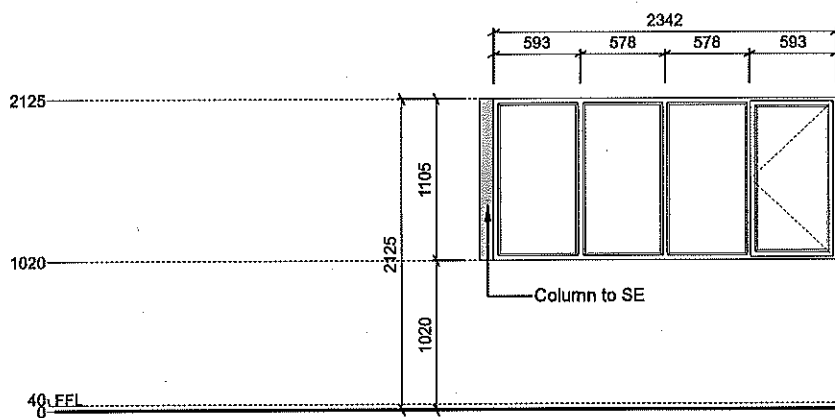
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	LS /	PR00 14-Aug-17	P2-20080-1-ORT011-060-W014
DATE:			
ISSUED:	14-Aug-17		

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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 060-901, SAGGA Glass Installation Information 060-951 to 060-956
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

WINDOW - W015

1:50

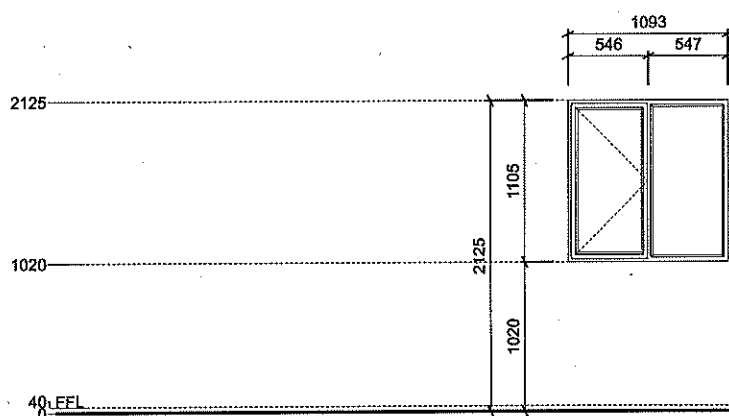
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PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	LS /	PR00 14-Aug-17	P2-20080-1-ORT011-060-W015
DATE:			
ISSUED:	14-Aug-17		

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 E-mail: hdg@hdg.co.za





- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 060-901, SAGGA Glass Installation Information 060-951 to 060-956
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

WINDOW - W016

1:50

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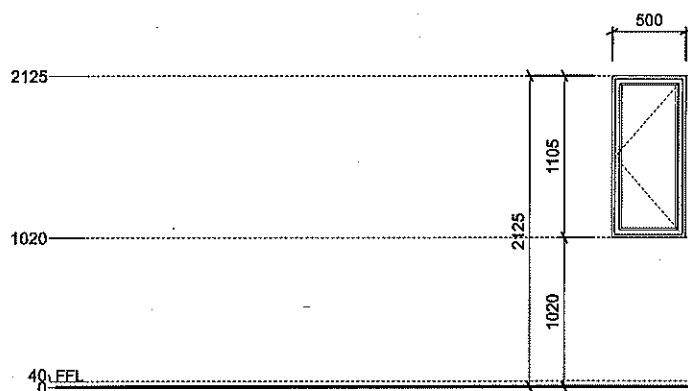
PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	LS /	PR00 14-Aug-17	P2-20080-1-ORT011-060-W016
DATE:			
ISSUED:	14-Aug-17		

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 E-mail: hdg@hdg.co.za



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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 060-901, SAGGA Glass Installation Information 060-951 to 060-956
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

WINDOW - W017

1:50

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PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	LS /	PR00 14-Aug-17	P2-20080-1-ORT011-060-W017
DATE:			
ISSUED:	14-Aug-17		

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 E-mail: hdg@hdg.co.za



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Aluminium Louvre Door and Fixed Panel Preambles:

Manufacturer:

Purpose Made Aluminium weather Louvre door/ fixed panel as by Wispeco (011 389 0000) to suit required site specific wind load. All to AAAMSA Standards and Architects approval.

Louvre frame description:

Purpose Made Aluminium door and panel frame (Clip 44, with 150 mm mullions, pending detail design by Specialist) in configuration as shown, to suite hinge or over head transom closer as specified elsewhere. With or without opening sections as shown. Complete with lock hinges and latches as specifeid elswere. Waterproof frame surround and joints with an approved soft seal. All to AAAMSA Standards and Architects approval.

Louvre specifications:

MLV01 Y-Louvre blade and spacers, complete with vermin proofing.
All to comply with National building regulations.

Frame/ Louvre finish:

Polyester powder coated (50 - 100µ thick)

GENERAL NOTES:

1. Please ensure that frames/ glazing are not installed premature during wet trade. Further it is the Contractor full responsibility to ensure that all frames and glazing is well protected during construction phase to avoid any permanent damage.
2. All dimensions to be controlled on site prior to any manufacturing.
3. Frame to be sealed watertight with an approved UV sterilized soft sealant all-round.
4. Shop drawings and sample to be approved by Architect prior to any Manufacturing.
5. Workmanship, casement sizes, louvre type and frame finish - All to be certified by AAAMSA.
6. All louvre drawings must be read in conjunction with Louvre Detail drawing.
7. Use anti-magnetic stainless steel screws and pop rivets.

DRAWING DESCRIPTION:

SCALE:

ALUMINIUM LOUVRE DOOR AND FIXED PANEL PREAMBLES

NTS

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PROJECT TITLE

"ECDOH
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CANZIBE HOSPITAL"

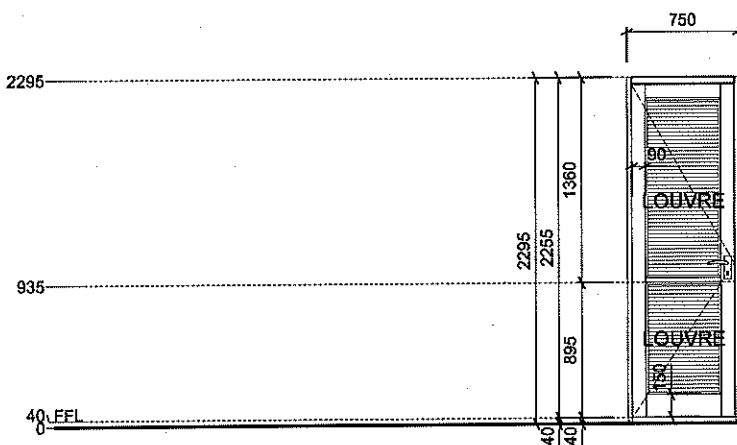
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-014
DATE:			
ISSUED:	9-Aug-17		

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NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-014,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - ALLS001

1:50

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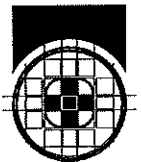
PROJECT TITLE

"ECDOH
 FACILITY MAINTENANCE
 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

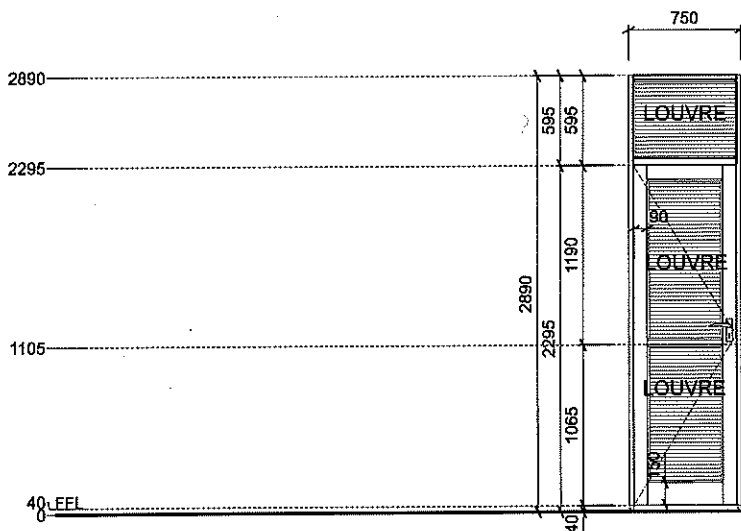
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALLS001
DATE:			
ISSUED:	9-Aug-17		

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 E-mail: hdg@hdg.co.za



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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-014,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - ALLS002

1:50

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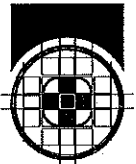
PROJECT TITLE

"ECDOH
 FACILITY MAINTENANCE
 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

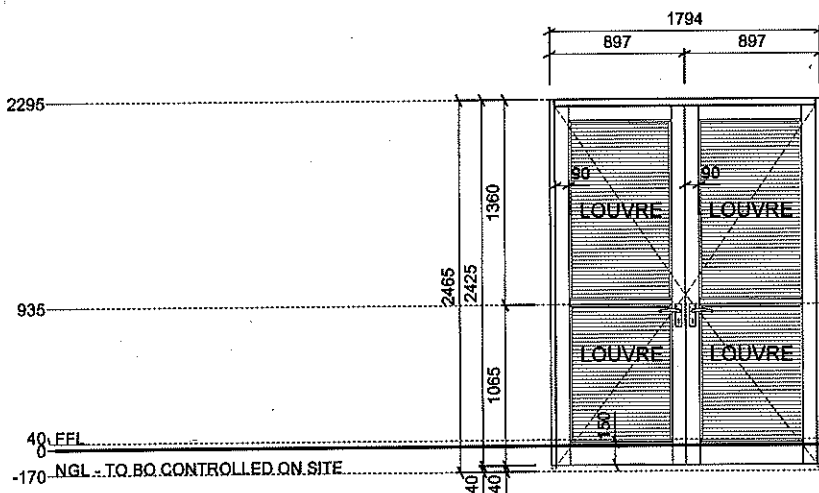
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALLS002
DATE:			
ISSUED:	9-Aug-17		

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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-014,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - ALLD001

1:50

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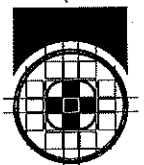
PROJECT TITLE

"ECDOH
 FACILITY MAINTENANCE
 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

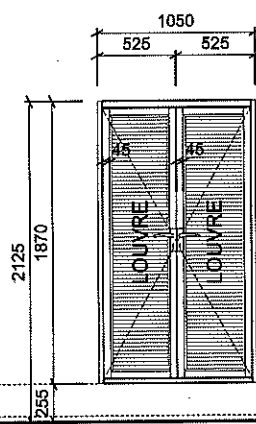
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALLD001
DATE:			
ISSUED:	9-Aug-17		

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255
40 FEL

NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-014,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - ALLD002

1:50

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PROJECT TITLE
"ECDOH
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OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

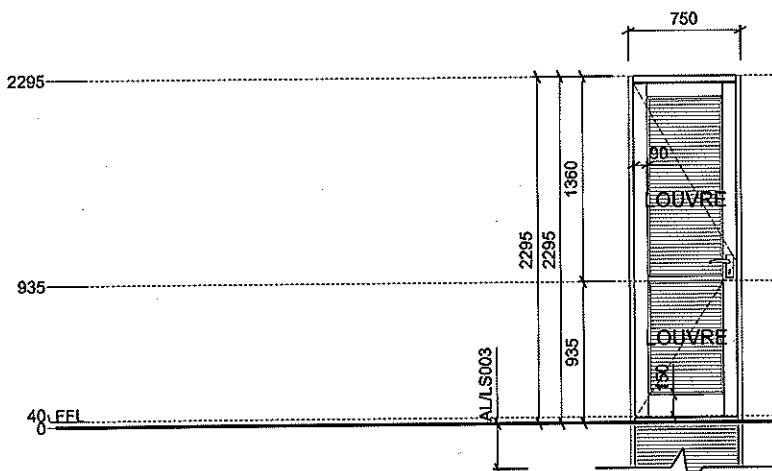
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-ALLD002
DATE:			
ISSUED:	9-Aug-17		

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NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-014,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - ALLS004

1:50

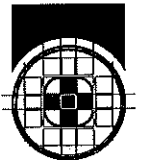
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PROJECT TITLE
 "ECDOH
 FACILITY MAINTENANCE
 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

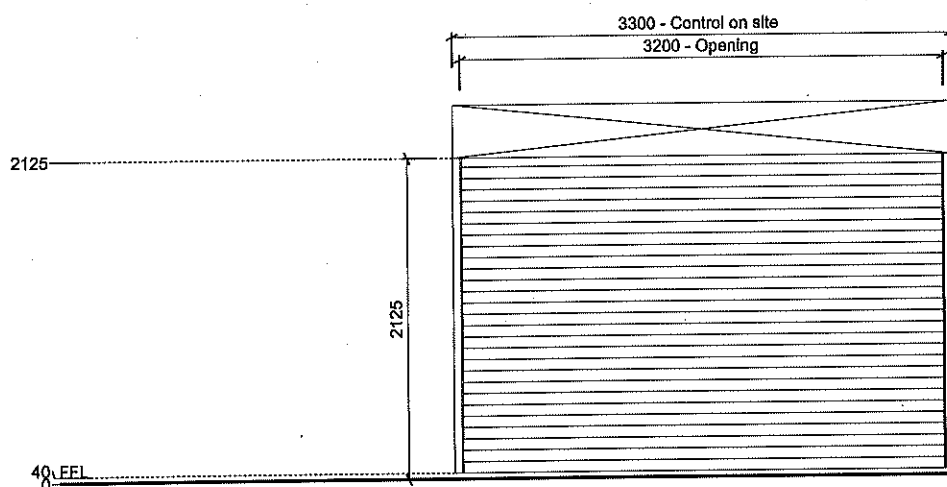
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DRAWN:	JLVZ /	PR00 9-Aug-17	P2-20080-1-ORT011-070-ALLS004
DATE:			
ISSUED:	9-Aug-17		

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NOTE: 1. This drawing must be read in conjunction with Codebook Schedule 100-AH
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - RS-PU001

1:50

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 "ECDOH
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 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

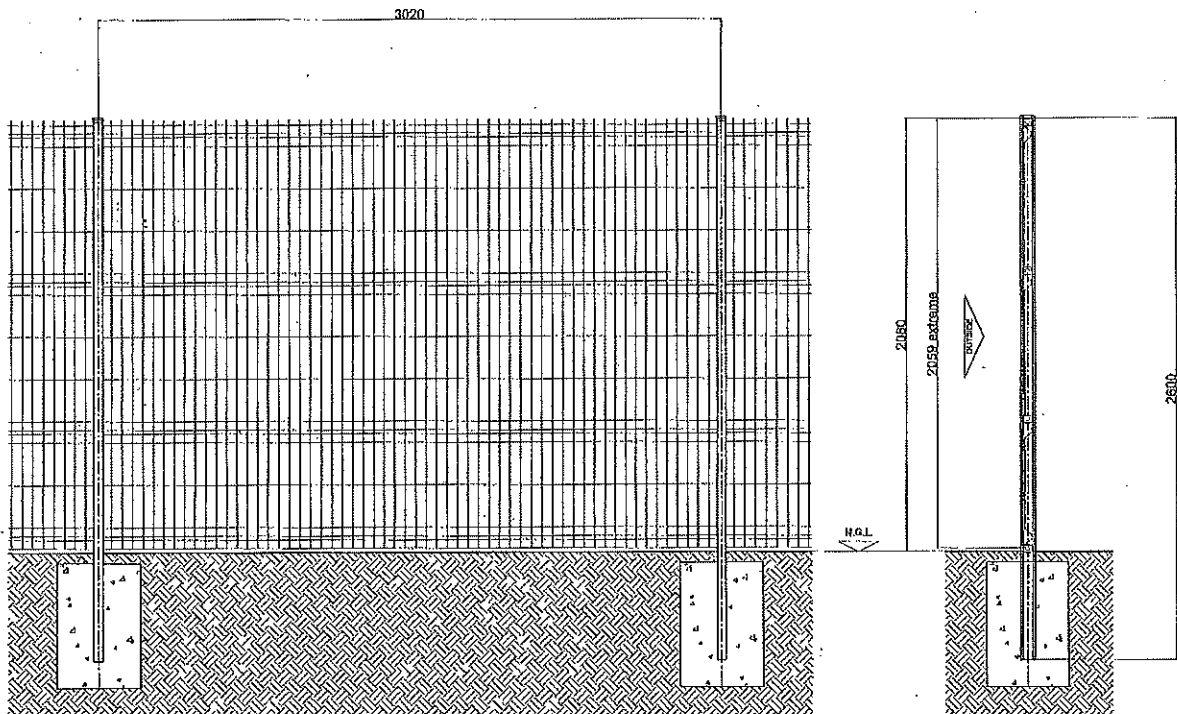
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-RS-PU001
DATE:			
ISSUED:	9-Aug-17		

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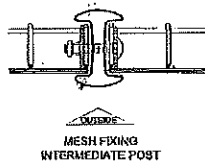


ELEVATION FROM OUTSIDE

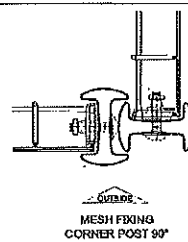
SECTION THRO

SVP 004

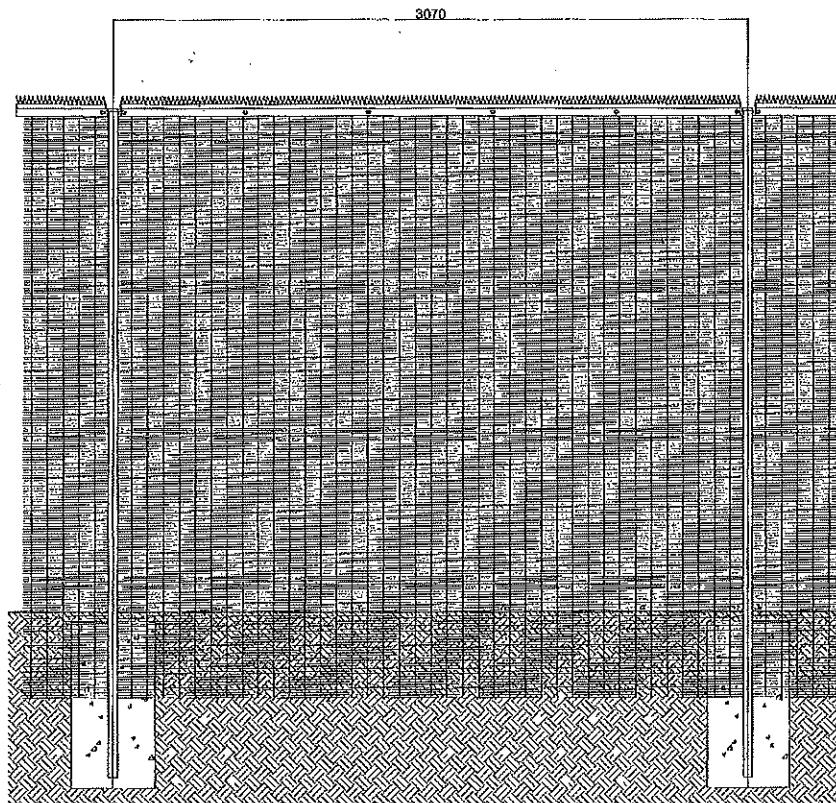
Material Schedule per unit Intermediate Post			
Qty	Component	Description	Length
1	Post	Bakafix Secure	2600
1	Cap	Polyamide cap	
8	Fixing Clamp	Mini Spider	
4	Cup-square bolt	M8 mushroom head	50
4	Nut	M8 Shear-off	
4	Washer	M8 Flat	



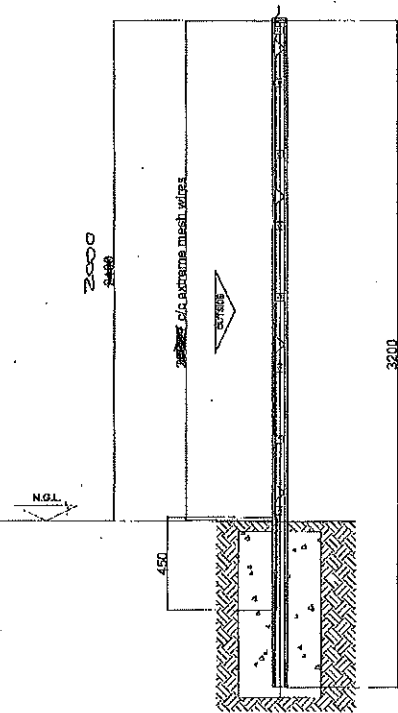
Material Schedule per unit Panel			
Qty	Component	Description	Length
1	Mesh	Nylolox 3M x 2060	2997



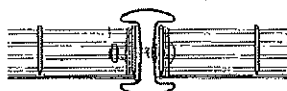
Material Schedule per unit Corner Post		
Qty	Component	Description
2	Post	Bakafix Secure
2	Cap	Polyamide cap
8	Fixing Clamp	Mini Spider
4	Cup-square bolt	M8 mushroom head
4	Nut	M8 Shear-off
4	Washer	M8 Flat



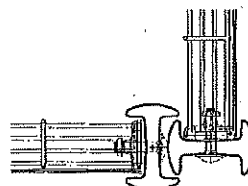
ELEVATION FROM OUTSIDE



SECTION THRO

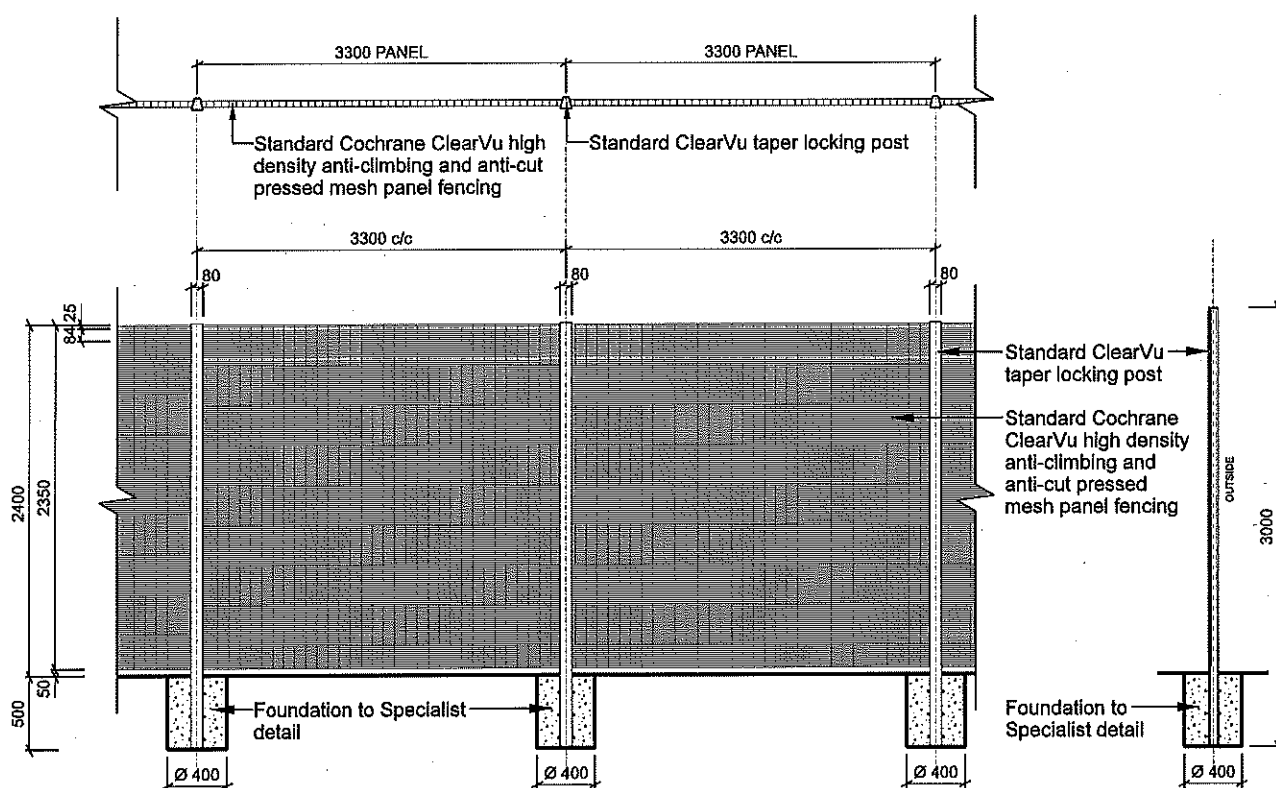


MESH FIXING
INTERMEDIATE POST



MESH FIXING
CORNER POST 90°

SVP00S



- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-017 & 070-018,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

CLEARVU - FENCE - TYPICAL DETAIL

1:50

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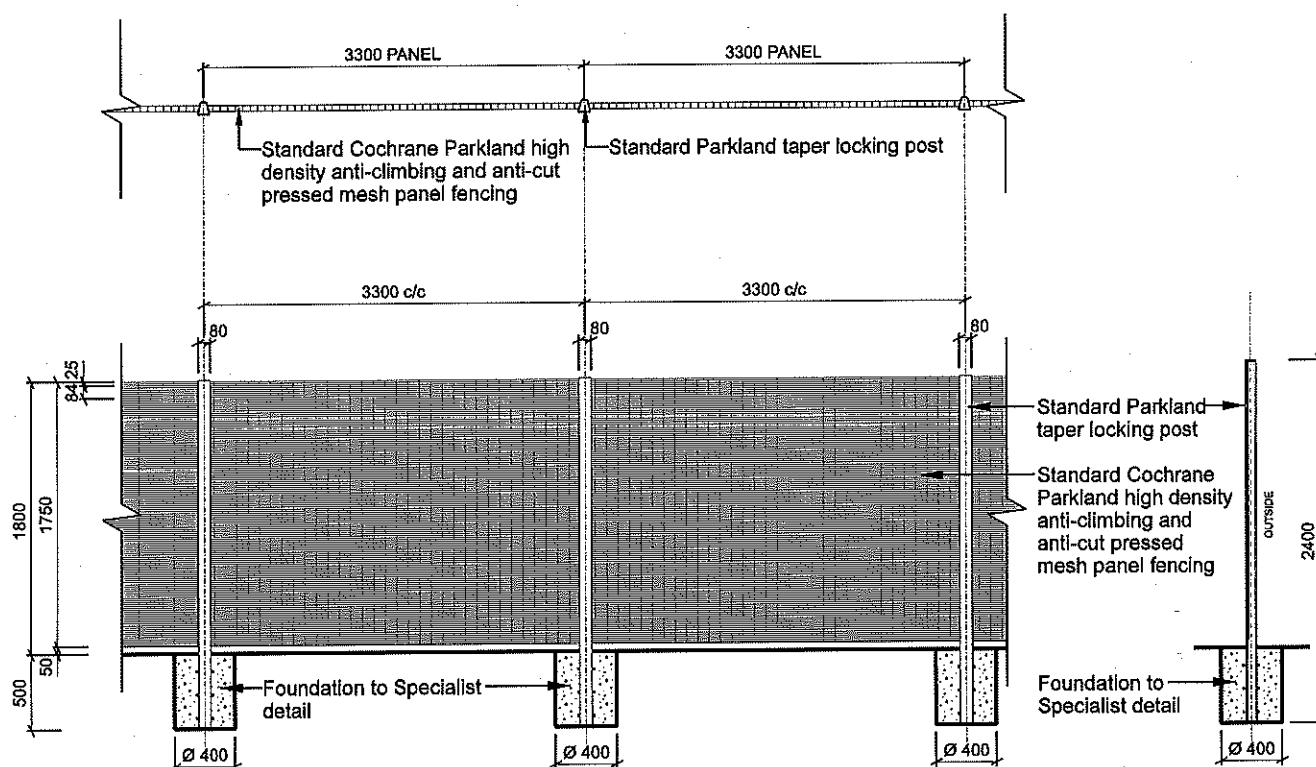
PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	/	PR00 14-Aug-17	P2-20080-1-OR T011-070-750
DATE:			
ISSUED:	14-Aug-17		

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 E-mail: hdg@hdg.co.za



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- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-022 & 070-023,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

PARKLAND - FENCE - TYPICAL DETAIL

1:50

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PROJECT TITLE

ECDOH

FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

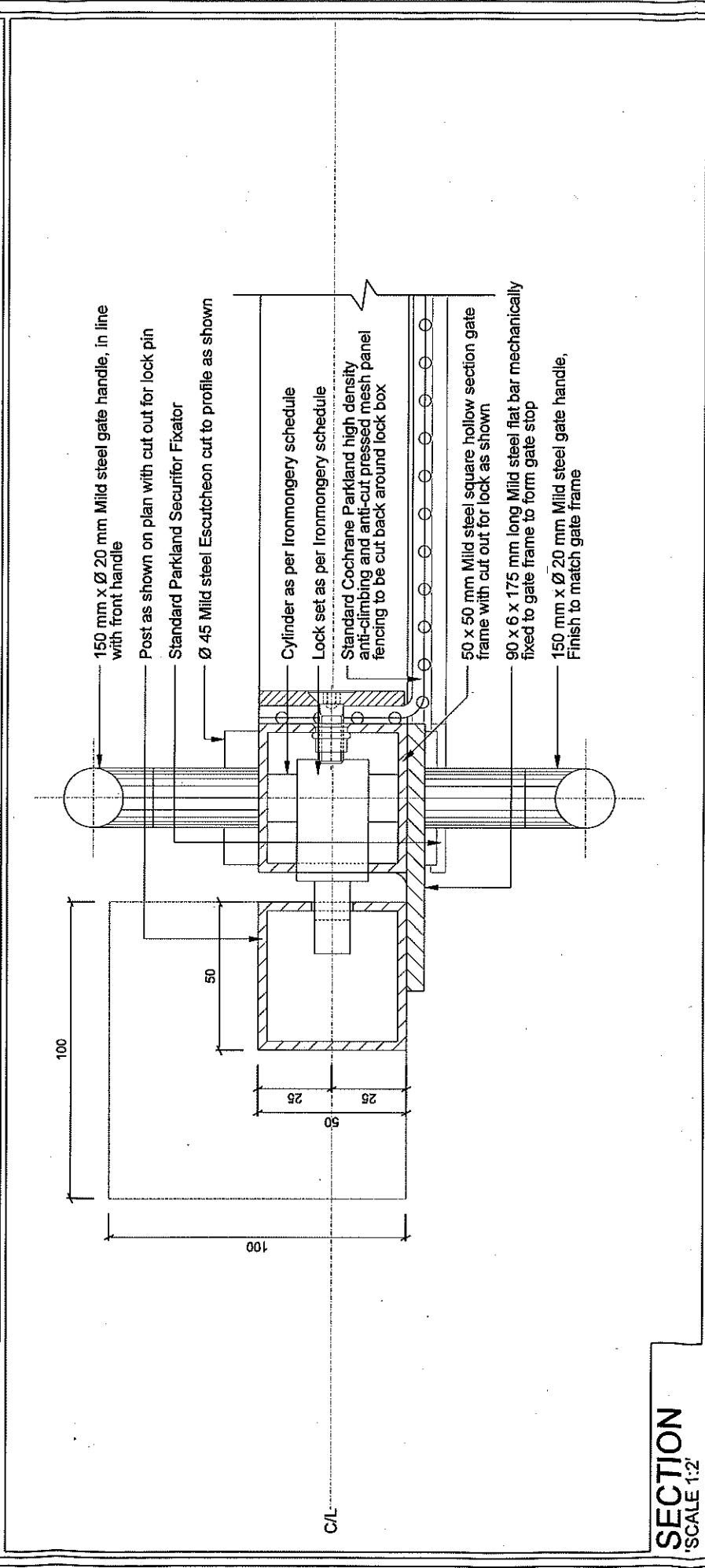
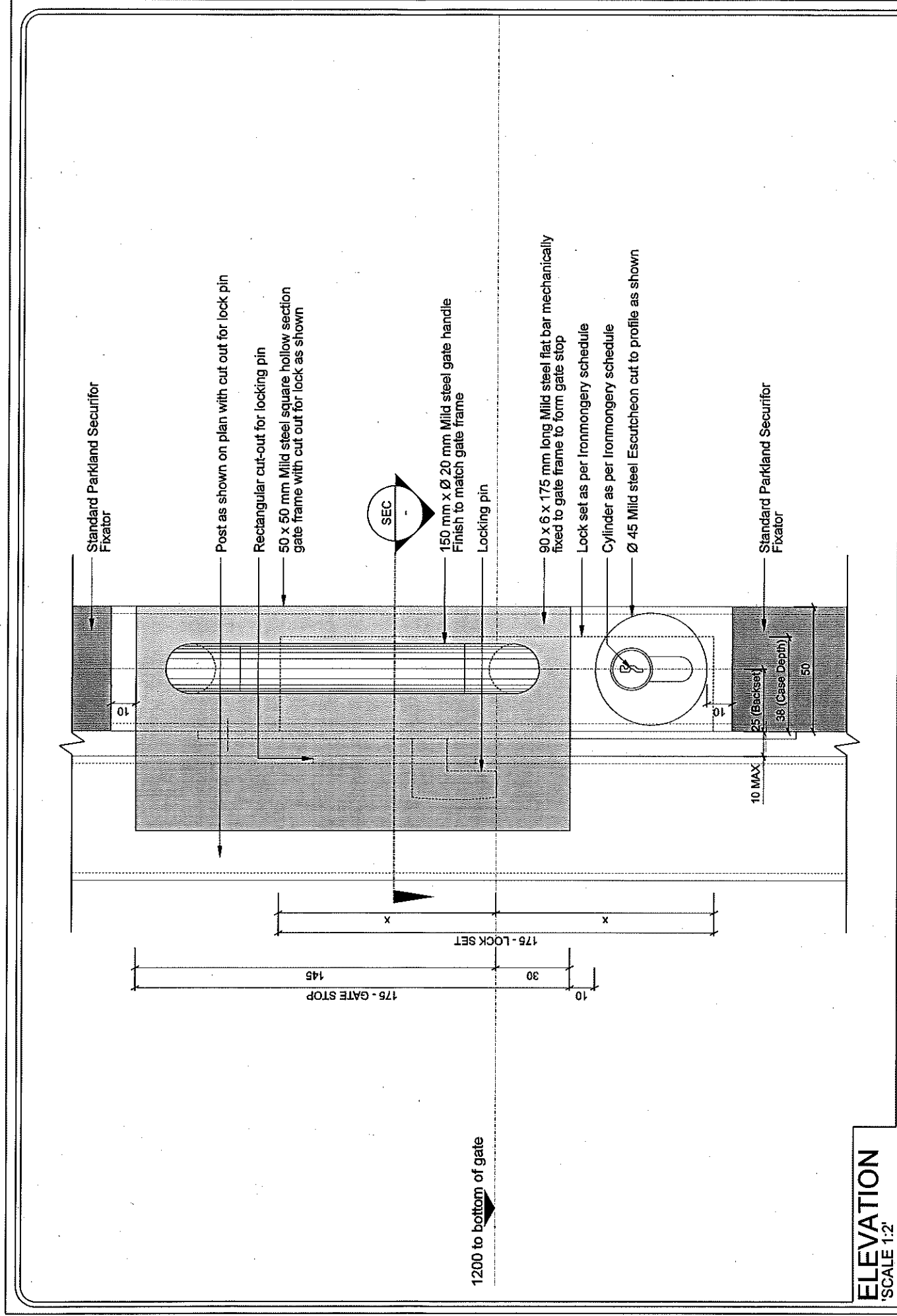
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DRAWN:	JLVZ /	PR00	P2-20080-1-ORT01
DATE:		17-Aug-17	1-070-751
ISSUED:	18-Aug-17		

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 E-mail: hdg@hdg.co.za



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- NOTE: 1. This drawing must be read in conjunction with Preliminary drawing 070-024 to 070-025,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure
4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

PARKLAND - SINGLE SWING GATE - LOCK SET DETAIL WITH POST

1:2

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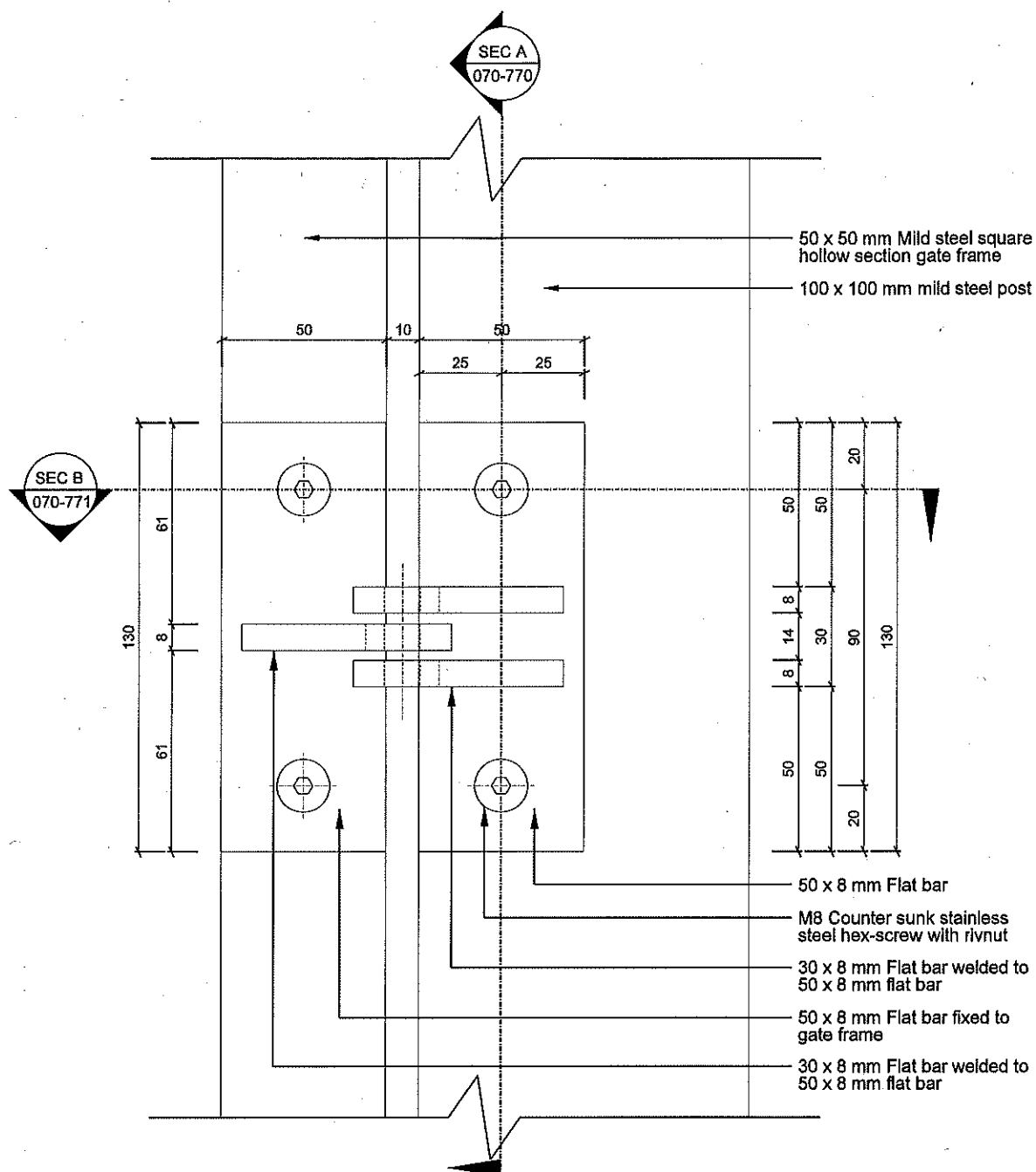
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E-mail: hdg@hdg.co.za

PROJECT TITLE "ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ	PR00	
DATE:	9-Aug-17	7-Aug-17	
ISSUED:			P2-20080-1-ORT011-070-760



DETAIL
SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-024 to 070-025,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure
4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

**"PARKLAND - SWING GATE - HINGE DETAIL
WITH 50 X 50 POST FIXED TO WALL"**

1:2

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PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

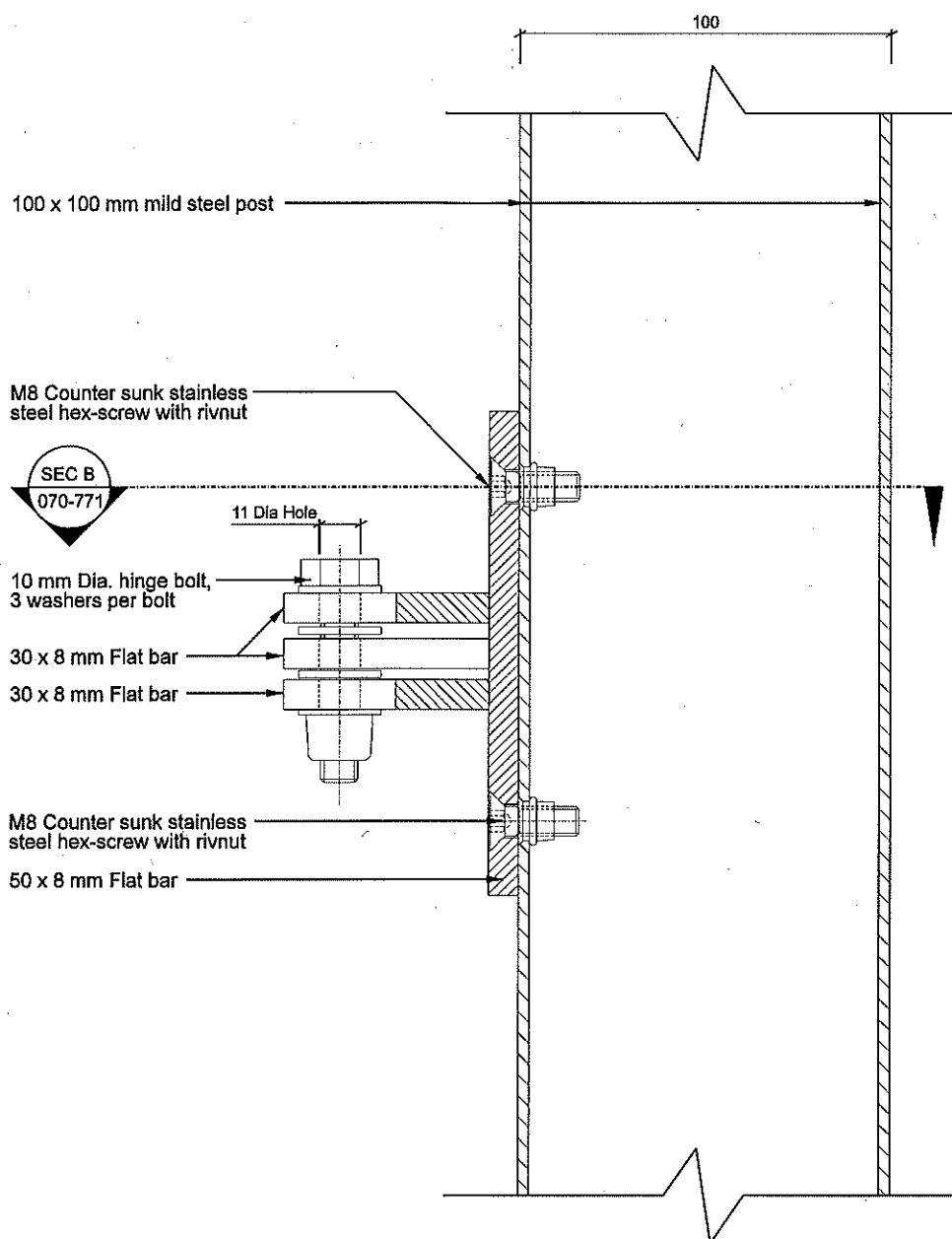
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-766
DATE:			
ISSUED:	9-Aug-17		

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DETAIL SECTION A

SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-024 to 070-025,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure
 4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

"PARKLAND - SWING GATE - HINGE DETAIL SECTION A
 WITH 50 X 50 POST FIXED TO WALL"

1:2

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PROJECT TITLE

"ECDOH
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 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

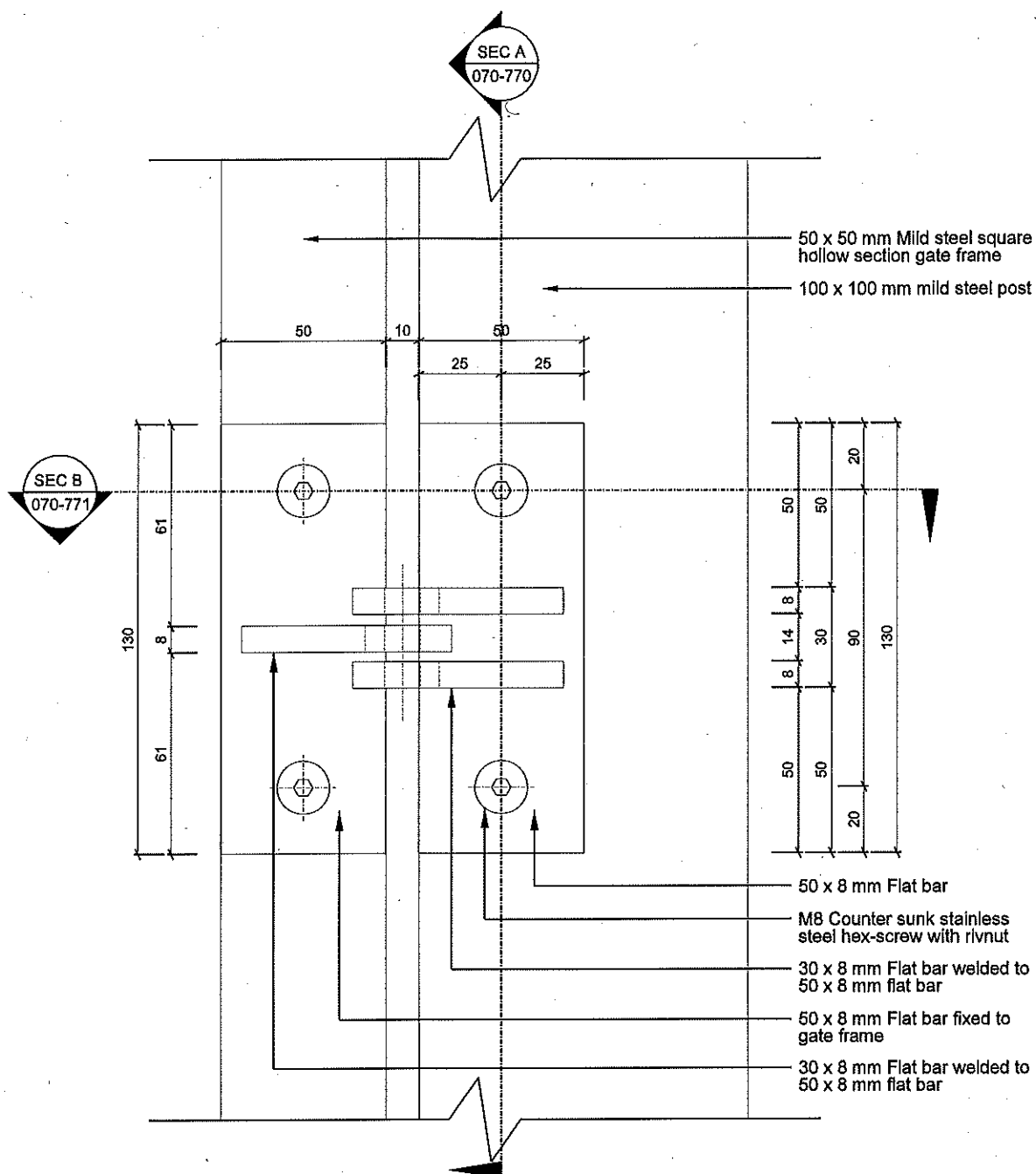
PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	JLVZ /		
DATE:		PR00	P2-20080-1-ORT011-070-767
ISSUED:	9-Aug-17	7-Aug-17	

HOSPITAL DESIGN GROUP

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 E-mail: hdg@hdg.co.za



HDG



DETAIL
SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-024 to 070-025,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure
4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

PARKLAND - SWING GATE - HINGE DETAIL WITH 100 X 100 POST

1:2

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PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

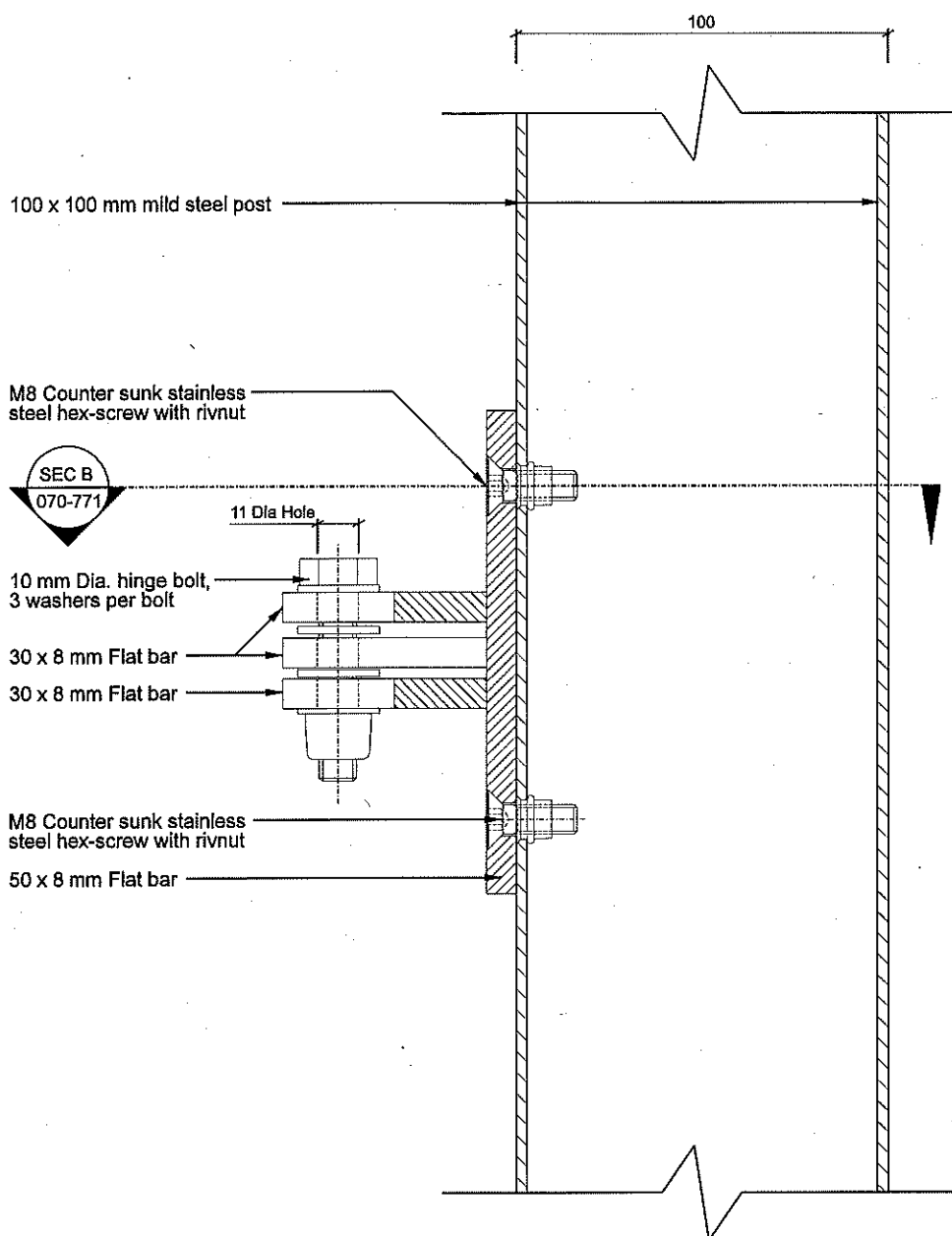
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DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-769
DATE:			
ISSUED:	9-Aug-17		

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DETAIL SECTION A

SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-024 to 070-025,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure
 4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

PARKLAND - SWING GATE - HINGE DETAIL SECTION A WITH 100 X 100 POST

1:2

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PROJECT TITLE

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OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00	P2-20080-1-ORT011-070-770
DATE:		7-Aug-17	
ISSUED:	9-Aug-17		

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'SCALE 1:2'

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-024 to 070-025,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure
4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

PARKLAND - SWING GATE - HINGE DETAIL SECTION B
WITH 100 X 100 POST

1:2

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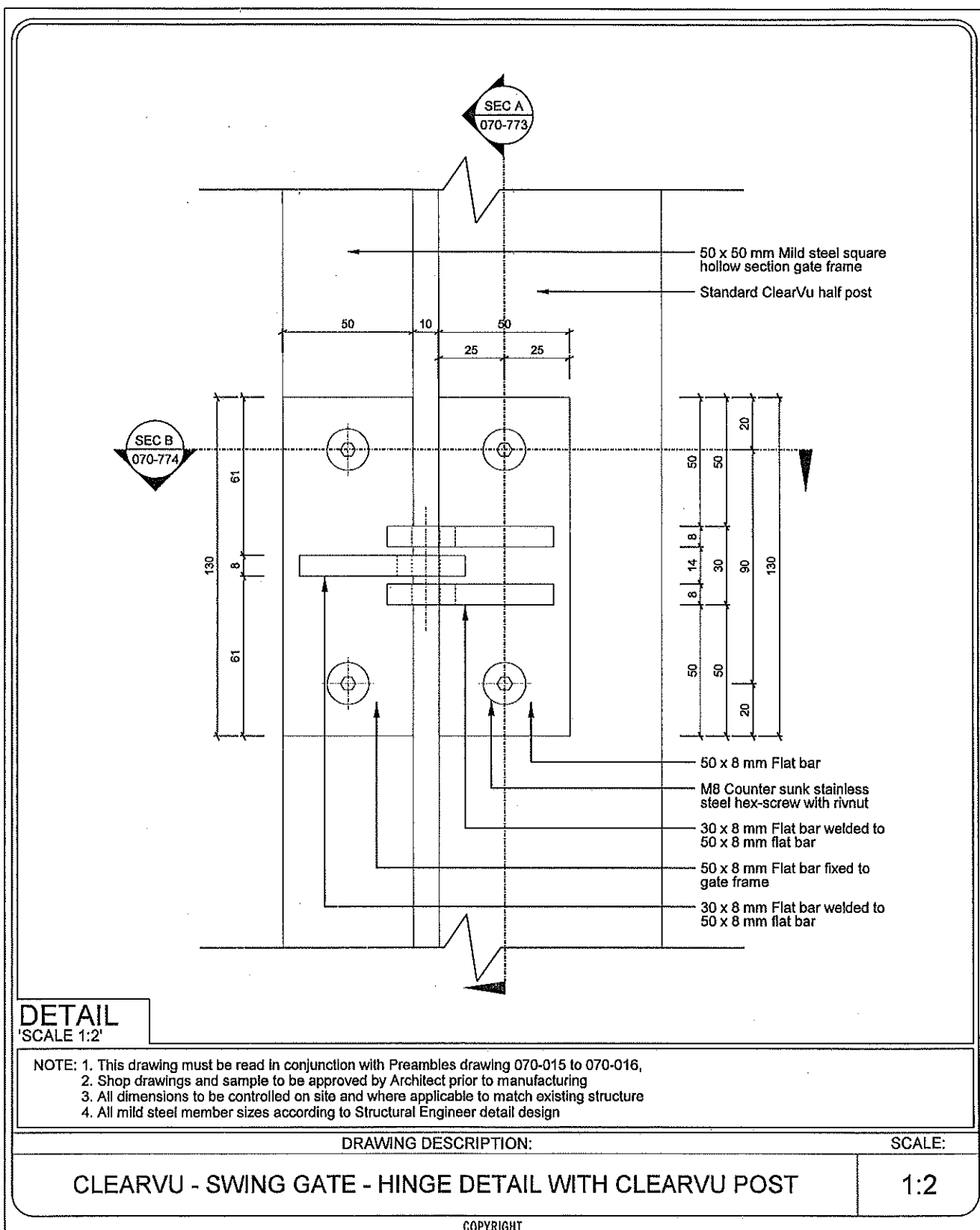
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PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	PR00 7-Aug-17	P2-20080-1-ORT011-070-771
DATE:			
ISSUED:	9-Aug-17		

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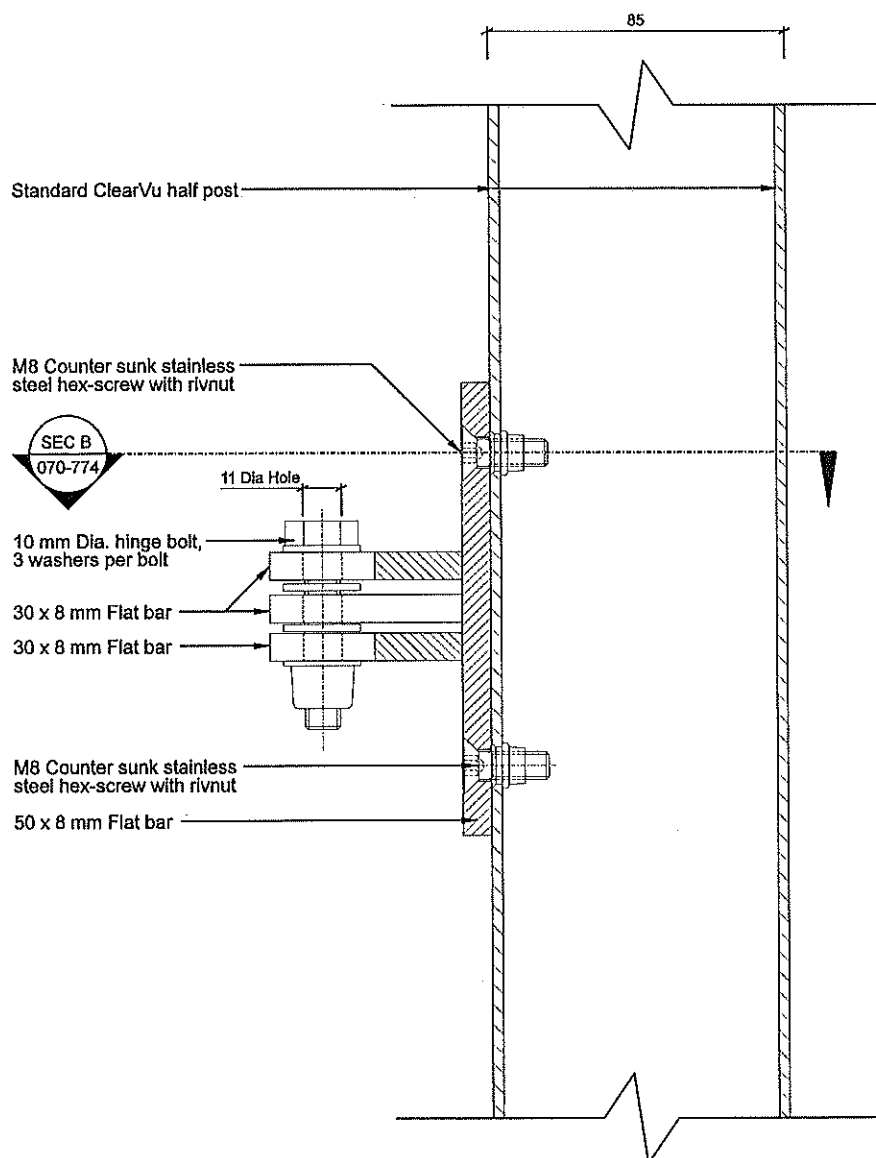
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PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	LS /	PR00	P2-20080-1-OR T011-070-772
DATE:			
ISSUED:	14-Aug-17		

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DETAIL SECTION A

SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-015 to 070-016,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure
 4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

CLEARVU - SWING GATE - HINGE DETAIL SECTION A WITH CLEARVU POST

1:2

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PROJECT TITLE

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 FACILITY MAINTENANCE
 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

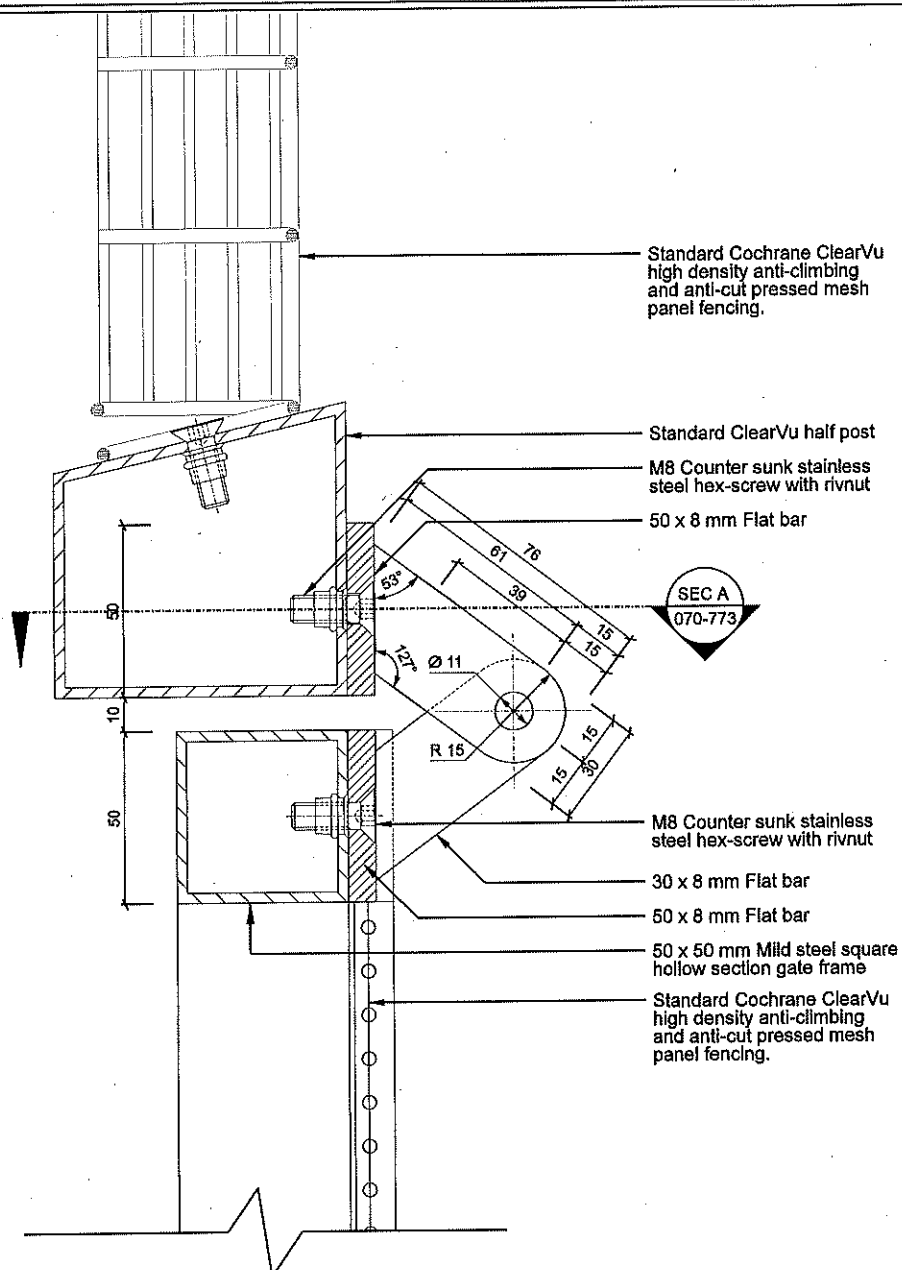
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DRAWN:	LS /	PR00 14-Aug-17	P2-20080-1-OR T011-070-773
DATE:			
ISSUED:	14-Aug-17		

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DETAIL SECTION B

SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-015 to 070-016,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure
 4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

CLEARVU - SWING GATE - HINGE DETAIL SECTION B WITH CLEARVU POST

1:2

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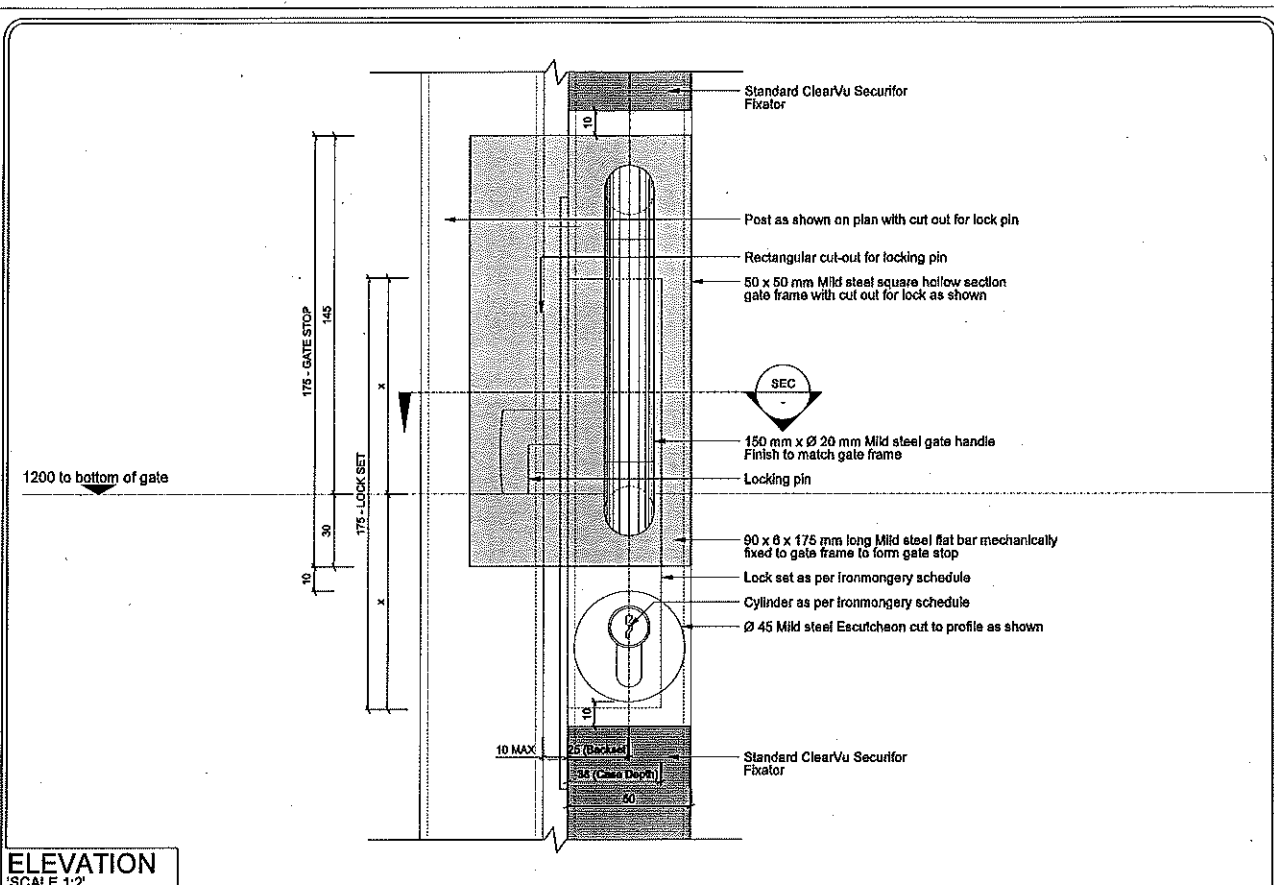
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PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	LS /	PR00 14-Aug-17	P2-20080-1-OR T011-070-774
DATE:			
ISSUED:	14-Aug-17		

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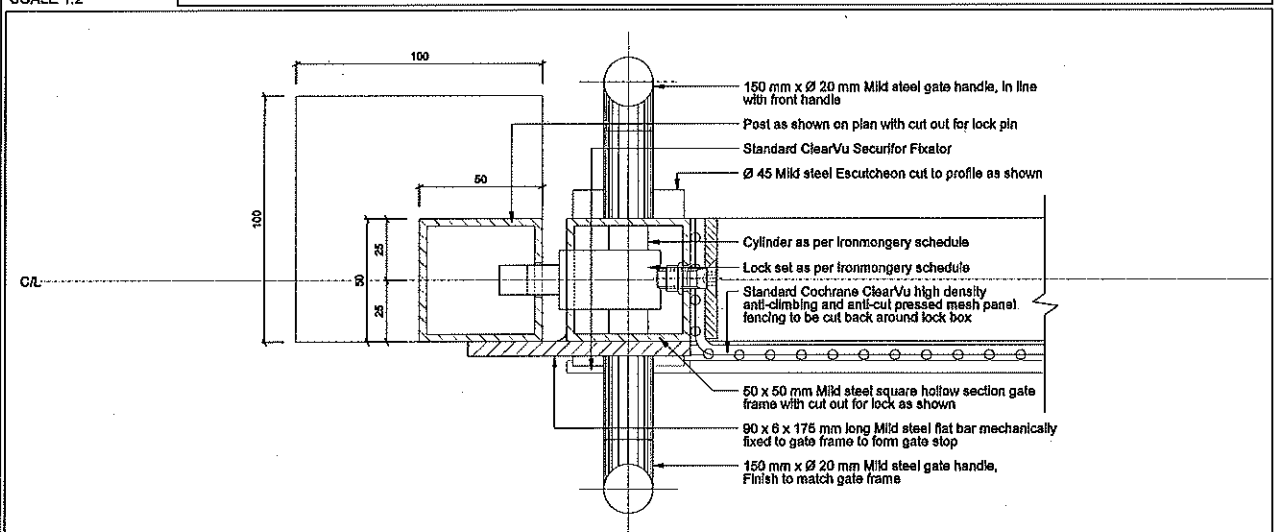
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ELEVATION
SCALE 1:2'



SECTION
'SCALE 1:2'

NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-015 to 070-016,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure
4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

CLEARVU - SINGLE SWING GATE - LOCK SET DETAIL WITH POST

1:2

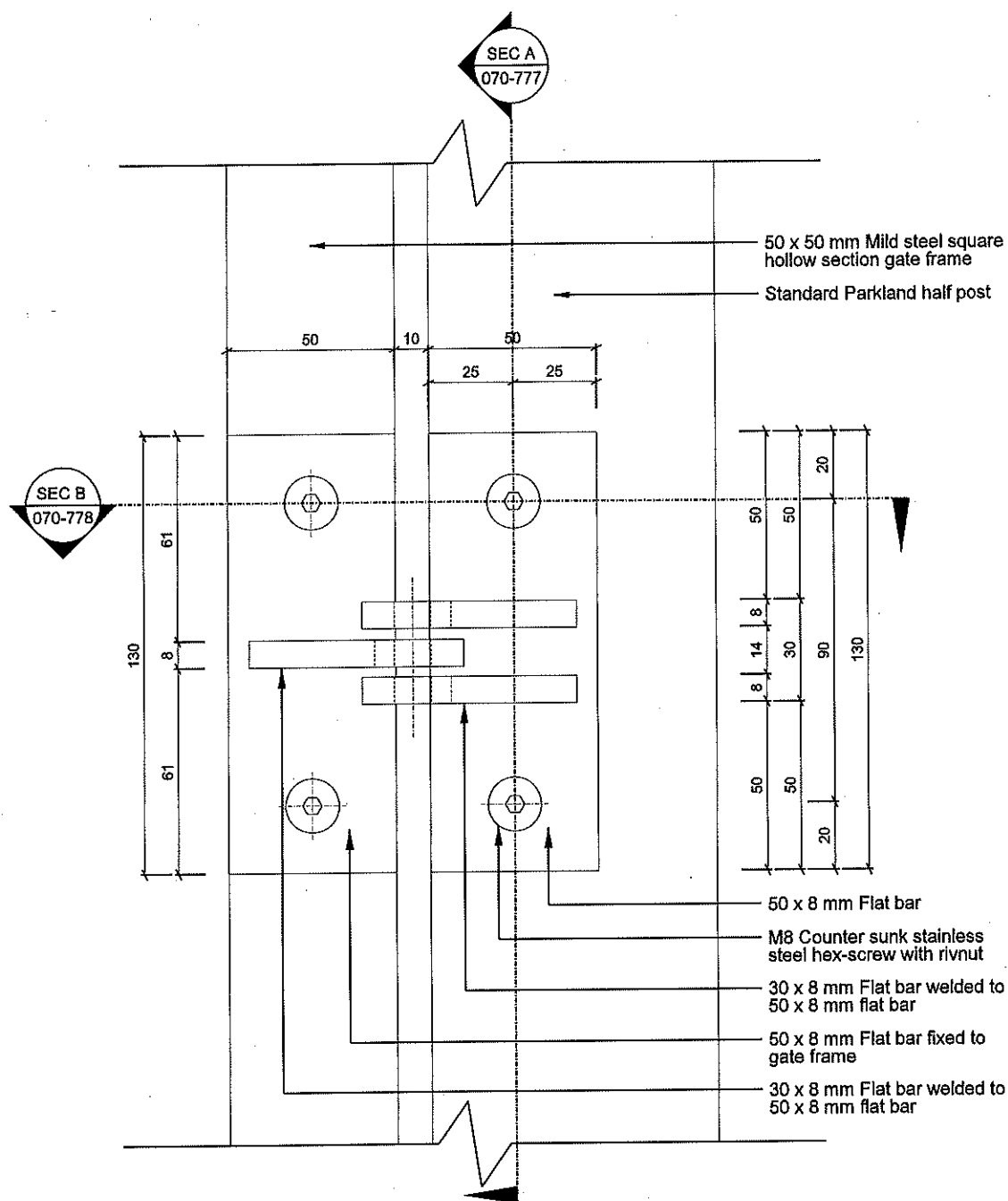
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PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	LS	14-Aug-17	P2-20080-1-ORT011-070-775
DATE:			
ISSUED:	14-Aug-17		

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DETAIL 'SCALE 1:2'

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-022 to 070-023,
2. Shop drawings and sample to be approved by Architect prior to manufacturing
3. All dimensions to be controlled on site and where applicable to match existing structure
4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

PARKLAND - SWING GATE - HINGE DETAIL WITH PARKLAND POST

1:2

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PROJECT TITLE

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FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

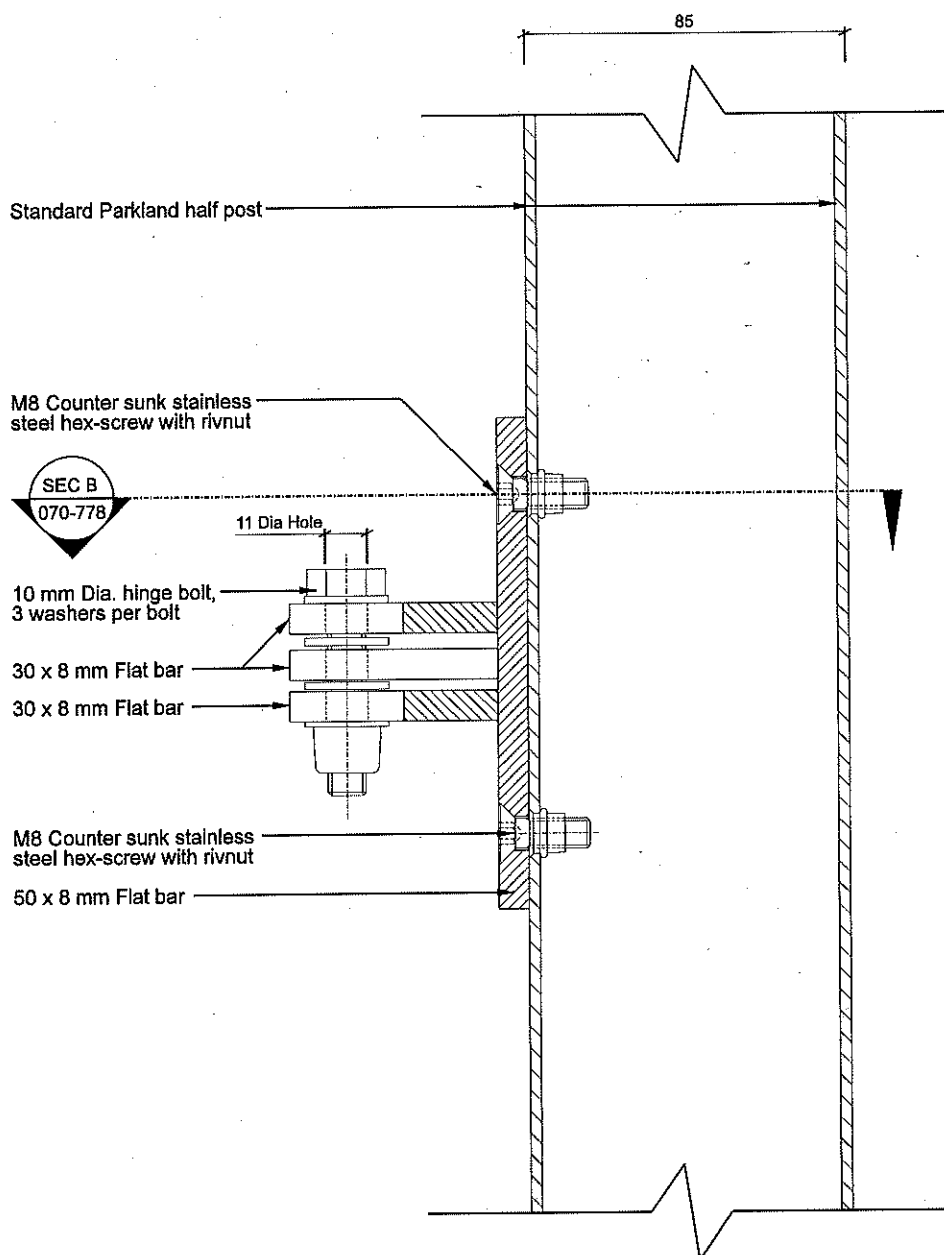
PROJECT:	20080-1-ORT01	REV. NO	DET. NO
DRAWN:	/	PR00	P2-20080-1-ORT011-070-776
DATE:		18-Aug-17	
ISSUED:	18-Aug-17		

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DETAIL SECTION A

SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-022 to 070-023,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure
 4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

PARKLAND - SWING GATE - HINGE DETAIL SECTION A WITH PARKLAND POST

1:2

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PROJECT TITLE

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 OR TAMBO - CLUSTER 1
 CANZIBE HOSPITAL"

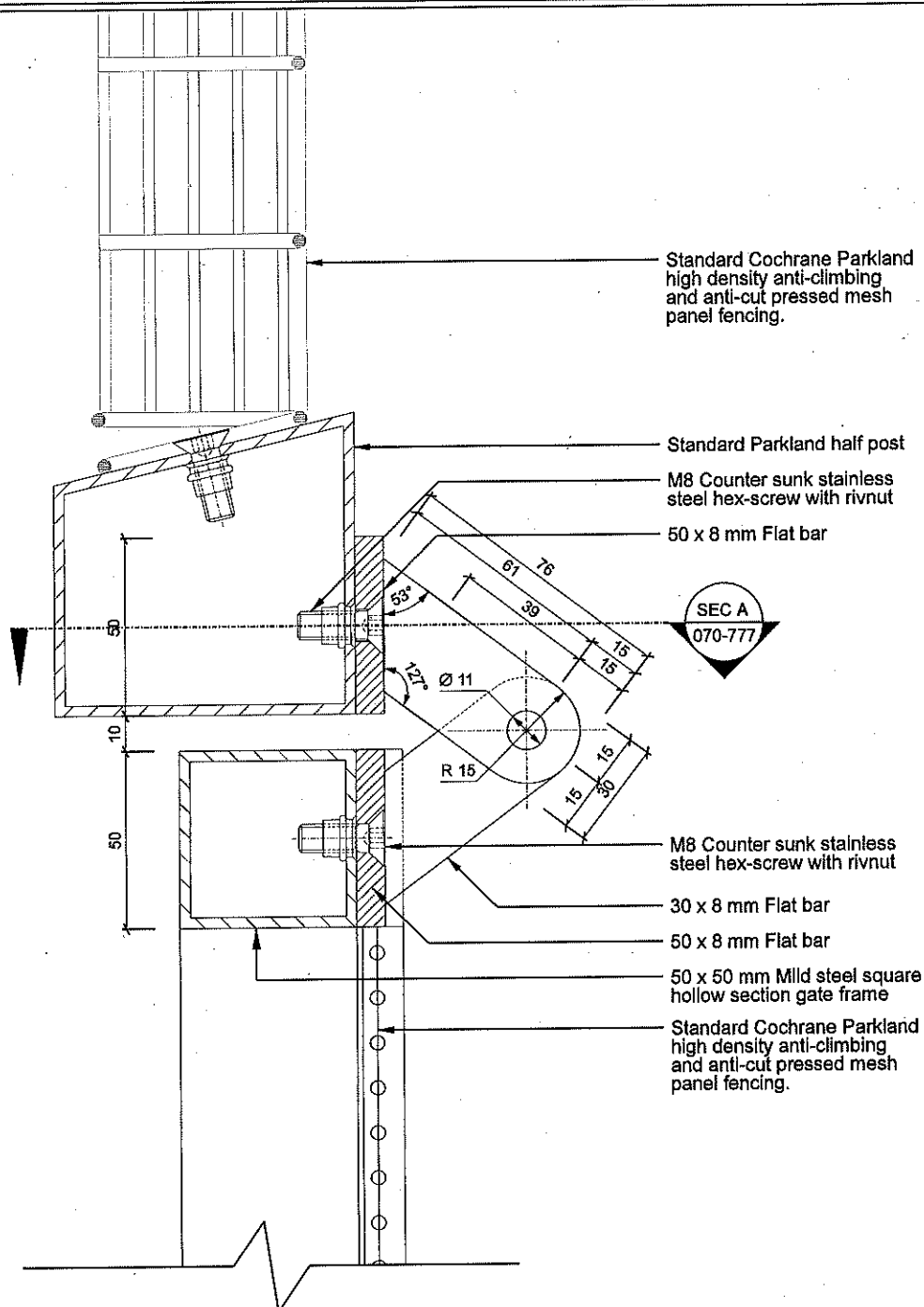
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DRAWN:	/	PR00	P2-20080-1-ORT011-070-777
DATE:		18-Aug-17	
ISSUED:	18-Aug-17		

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DETAIL SECTION B

SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-022 to 070-023,
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure
 4. All mild steel member sizes according to Structural Engineer detail design

DRAWING DESCRIPTION:

SCALE:

PARKLAND - SWING GATE - HINGE DETAIL SECTION B WITH PARKLAND POST 1:2

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PROJECT TITLE

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 CANZIBE HOSPITAL"

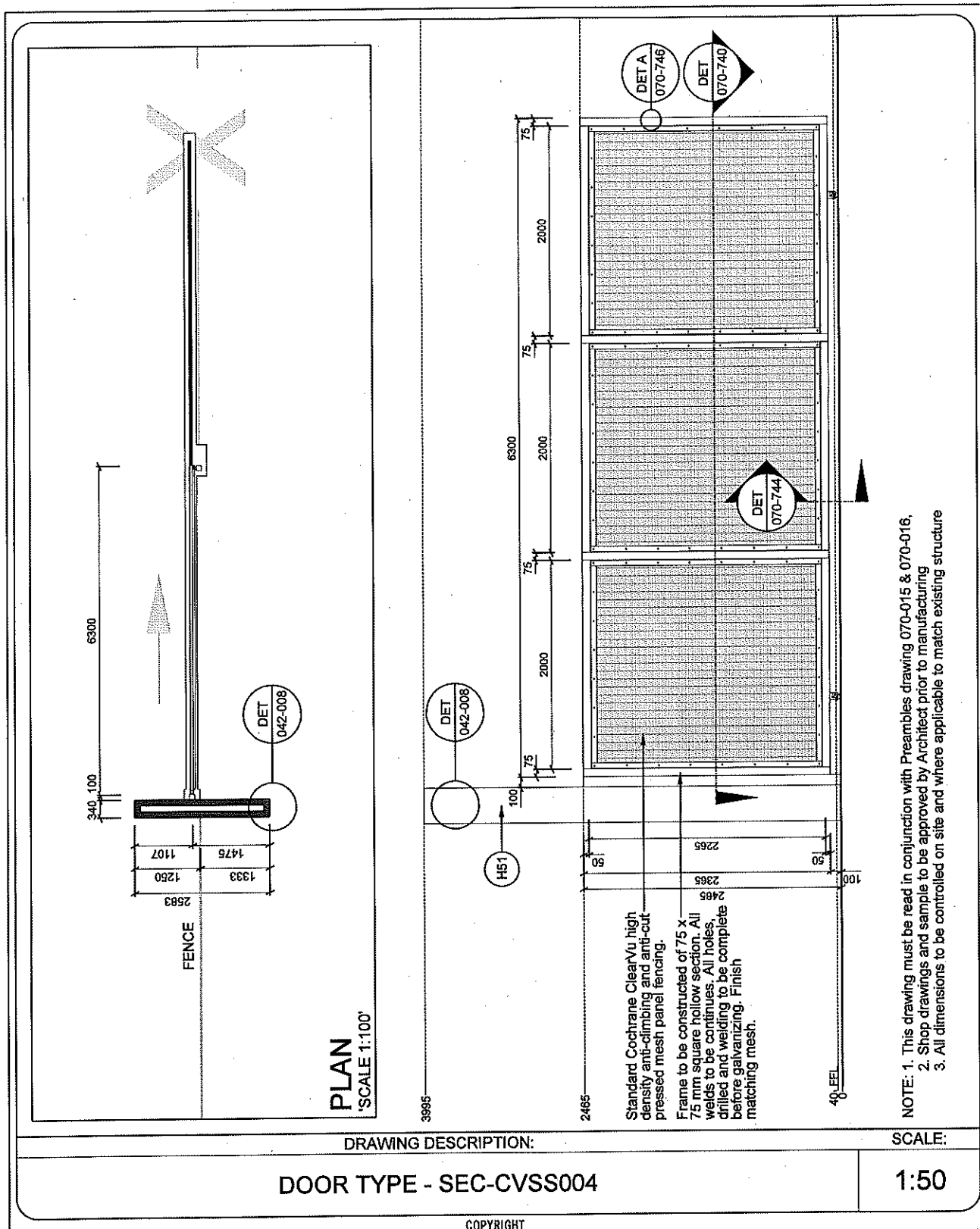
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DRAWN:	/	PR00	P2-20080-1-ORT011-070-778
DATE:		18-Aug-17	
ISSUED:	18-Aug-17		

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PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL"			
PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	JLVZ /	R00 24-Aug-17	20080-1-ORT 011-070-SEC -CVSS004
DATE:			
ISSUED:	24-Aug-17		

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REVISIONS


0

P2-100-A-Floor finishes (7)

STATUS	PRE-CONSTRUCTION	PROJECT DATE
PROJECT TITLE	ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL	PROJECT NO:
		20080-1-ORT011
		REV NO: PR00
		Date 14-Aug-17

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
14-Aug-17	P2-100-A-Floor finishes	PR00	20080-1-ORT011	7	

- P1** Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.
- P2** Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.
- P3** Floor Screeds - all screeds for different floor finishes to be adjusted to ensure a continuous finished floor level throughout.
- P4** Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
- P5** TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.
- P6** Monolithic screed: Prepare test and inspect surface bed to be min 20mps and crack free and install an Class AR2 40mpa -abrasion resistance and Class1 - Deviations Monolithic screed minimum 25mm and max 50mm thick - all material to comply with SABS1083. Screed thickness exclude floor finish, and it is the contractors responsibility to vary surface bed levels to ensure an uniform Finished floor level irrespective of floor finish type.


A3. HEAVY AND HIGH TRAFFIC COMMERCIAL PORCELAIN FLOOR TILES (INTERNAL)

Vitrified full body porcelain tiles with a water absorption (EN ISO 10545-3) of less than 0,1% and a scratch resistance (EN ISO 10545-7) of <150mm3. Slip classification (DIN 51130 (R) to be R9 – all according to detail tile layout. All strictly to manufacturer's specifications. Colour and type to Architect's approval.

Install with a proprietary tile adhesive as recommended by the manufacturer on well-prepared screed to suit required level. Generally we recommend TAL GOLDSTAR 6 or 12. However, each application is different and the final specification will be dependent on the type of floor; i.e. Surface bed or suspended slab. It will depend on whether the floor is screeded, power floated or rough concrete.

Finish all joints with a proprietary grout as recommended by the manufacturer, colour to architects approval. Generally we recommend TAL INDUSTRIAL EPOXY GROUTS.



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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
14-Aug-17	P2-100-A-Floor finishes	PR00	20080-1-ORT011	7	

NOTES :

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

a) Where applicable, all movement joints in floor to be M-Trim stainless steel heavy duty movement joint 10mm high (Code SMJ100), fitted with 6mm wide polyurethane infill to suit tiling. Colour to Architect's approval

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

b) Where applicable, all structural joints in floor to be M-Trim aluminium structural screed expansion joint 39mm high (Code ASSJ390) with Natural mill colour finish code N fitted with 38mm wide flexible PVC infill, plugged and screwed to floor base on one side of expansion joint. Colour to Architect's approval.

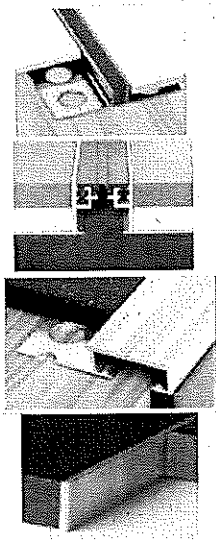
(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)


c) Where applicable, all stair noses to be provided with M-Trim aluminium tile-in stair nosing size 25 x 10mm high (Code ATIN100) to suit tiling thickness, fitted on treads. Colour to Architect's approval.

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

d) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip (Code BFB253) cast into screed at position as indicated on detail drawing (flush with floor finish).

e) All tiled areas on multi-storey buildings to receive Coprox waterproofing in screed and 100 mm high on walls – all applied strictly to manufacturers specifications



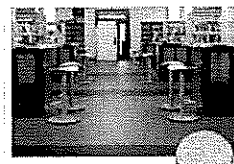
<p>ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL</p>		<p>38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3842 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za</p>  <p>HDG</p>			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
14-Aug-17	P2-100-A-Floor finishes	PR00	20080-1-ORT011	7	

A35. Ecore ECOSURFACES RECYCLED RUBBER SHEET (CLASSIC)

(Polyflor 011-609 3500)

SPECIFICATION:

Supply and install 3.20mm thick x 1.22m sheeting ECOSurfaces Classic non-laminated, single-ply, rubber surface sheeting made from a formulation of high quality post-consumer recycled rubber granules encapsulated in a wear and water-resistant elastomeric network with multiple coloured reprocessed ColorMill EPDM rubber, manufactured in accordance with ASTM standards and laid in Qualichem's QAR 209C 2-part polyurethane adhesive or Qualichem's BAN 523 contact adhesive which has been spread using an approved notched trowel on a previously prepared Class 1 sub-floor with a 50mm below surface drilled moisture content reading of 75% RH or below in accordance with SANS 10070, using Tal Screedmaster/LeveliTe F30 self-levelling screed when required.



INSTALLATION: (PLEASE NOTE: ALWAYS USE COMPATIBLE PRODUCTS FROM ONE SUPPLIER)

JOB SITE CONDITIONS

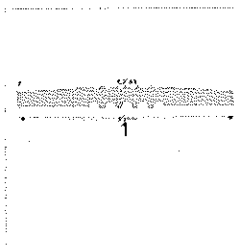
- Installation should not begin until after all other trades are finished in the area. If the job requires other trades to work in the area after the installation of the floor, the flooring should be protected with an appropriate cover.
- Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 18° C for 48 hours prior to, during, and after installation.


SUBFLOORS

- ECOSurfaces rolls and tiles may be installed over concrete, approved self-levelling materials such as LeveliTe or equivalent. Note: Gypsum based patching and levelling compounds are not acceptable.
- Concrete Floors: Concrete shall have a minimum compressive strength of 25 MPA. It must be fully cured and permanently dry. (Screed moisture content must not exceed 75% RH)

SUBFLOOR REQUIREMENTS AND PREPARATION

- Subfloor must be dry, clean, smooth, level, and structurally sound. It should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials, per ASTM F710.
- Subfloor should be smooth to prevent irregularities, roughness, or other defects from telegraphing through the new flooring. The surface should be flat to the equivalent of 3mm over 3m (SANS 0155 1980).
- Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. Do not use solvents. All high spots shall be ground level and low spots filled with an approved cementitious-based patching compound.
- All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved cementitious-based patching compound.
- Expansion joints in the concrete are designed to allow for expansion and contraction of the concrete. If a floor covering is installed over an expansion joint, it more than likely will fail in that area. Expansion joint covers designed for resilient floor coverings should be used.
- Always allow patching materials to dry thoroughly and installed per the manufacturer's instructions. Excessive moisture in patching material may cause bonding problems or a bubbling reaction with the adhesive.
- Moisture must be measured using the RH Relative Humidity test method and the moisture content should not exceed 75% RH. We recommend using either a Wagner meter or a Protimeter to assess screed moisture and that all readings be documented.



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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
14-Aug-17	P2-100-A-Floor finishes	PR00	20080-1-ORT011	7	

INSTALLATION

- Use special flat knee pads when installing especially if using a 2-part polyurethane adhesive.
 - Cut the first sheet at the required length including enough to run up the wall and overlap for seaming at each end.
 - Position the first sheet against the wall and square with the room. C. Cut second sheet with proper extra length.
 - Position second sheet with required overlap over the first roll at the seam. 1.219m wide rolls must be overlapped by 5mm. Failure to comply with required overlap could result in shade variance between rolls.
 - Allow the rough cuts to relax in position for a minimum of 2 hours before double cutting seams and applying the adhesive.
 - Fold the first drop lengthwise (half the width of the roll).
 - Spread the adhesive using the proper notched trowel. Take care not to spread more adhesive than can be covered by flooring and rolled within 30 minutes. Determine the open time for the adhesive you are using.
- Note: temperature and humidity affect the open time of adhesive. High temperatures and high humidity will cause the adhesive to set quickly. Low temperatures and low humidity will cause adhesive to cure at a slower rate. The installer should monitor on-site conditions and adjust open time accordingly.
- Carefully lay the material into the wet adhesive. DO NOT let the material drop because this will cause air to be trapped beneath the flooring.
 - Immediately roll the floor with a 68kg roller to ensure proper transfer of adhesive. Overlap each pass of the roller by 50% of the previous pass to ensure that the floor is properly rolled. Roll the width first, then the length. Re-roll again after 30-45 minutes.
 - Fold over second half of first roll and half of second sheet. Spread adhesive. At seam, area spread adhesive at 90 degrees to seam to eliminate excessive adhesive oozing up at seam. Roll material.
 - In some instances, it may be necessary to weigh down the seam until the adhesive develops a firm set. Boxes of cove base or tile work well.
 - Continue the process for each consecutive drop. Always work at a pace so that you are always folding material back into wet adhesive.

NOTE: Never leave adhesive ridges or puddles, they will telegraph through the material. Do not allow adhesive to cure on your hands or the flooring. Immediately wipe off excess adhesive with a rag dampened with suitable solvent relevant to the adhesive being used per manufacturer's instructions). Cured adhesive is very difficult to remove.

NOTE: Use solvent sparingly. Saturating the rubber with mineral spirits may cause the adhesive to be pushed too deeply into the pores of the rubber.

• Hand roll all seams after the entire floor has been rolled. If some seams are gapping it is possible to hold them together temporarily with masking tape. Tape should be removed after adhesive has developed a firm set (approximately 2-3 hours). Allowing tape to remain longer than 2-3 hours or using aggressive tapes may result in adhesive residue. ECOPE/POLYFLOR SA will not be responsible for residue left behind from tape of any kind.

• After you have rolled the floor, keep all foot traffic off the floor for a minimum of 24 hours. Foot traffic and rolling loads can cause permanent indentations or bubbles in the uncured adhesive.

FOR ANY TECHNICAL QUESTIONS, PLEASE CONTACT POLYFLOR (011) 609 3500.


MAINTENANCE:

INITIAL CLEAN

1. ECOsurfaces will require a deep clean to remove any dirt that has been deposited onto the floor. It would be advisable prior to scrubbing the floor to remove dust, sand, or soil with the aid of a vacuum or wide area sweeper frame.
2. The floor should then be scrubbed with the aid of a Nilfisk single disc low speed machine fitted with a 3M Red pad or a soft nylon brush and Proflex (General purpose low foam chemical) at 100ml ml to 10lt of water. An auto scrubber could also be used for this part of the initial clean.
3. Removal of the chemical solution should be done with the aid of a wet and dry vacuum to ensure that no residue is left behind.

SEALING: INITIAL APPLICATION

1. It is suggested that the ECOsurfaces product be sealed with Profloor H (water based product), the floor can be slightly damp on application of the Profloor H. The sealing of the floor will assist in the daily cleaning of the floor.
3. 2-3 coats of the product are suggested (dependant on porosity)
4. The Profloor H is applied with lamb's wool applicators or the Wonderwaxer applicator (the Wonderwaxer applicator will give you a more controlled application and result in a more even finish)
5. The second /third coat can be applied once the floor is dry and as an average this can take from 10 minutes on a hot day to 40 minutes on a rainy day per coat of the Profloor H. Once the initial seal has been done it is advisable that the floor be left to cure and only be utilised the following day.
6. The presence of air conditioners and a well-ventilated area will speed up the drying process.
7. The Profloor H will give you a yield of about 30 to 40 square meters per litre depending on the porosity

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DAILY MAINTENANCE

1. The floor will require that it be swept, mopped, or vacuumed daily to remove any loose dirt soil, debris etc.
2. The Vileda flat mop microfibre system in conjunction with Proclean (neutral all-purpose cleaner) is suggested for manual cleaning and will yield better results than a standard round mop.
3. The floor can also be cleaned using a Nilfisk auto scrubber fitted with a 3M Red pad and Protop through the machine (self-shining maintenance cleaner)
4. The use of the auto scrubber may not be necessary every day unless the specific area is subjected to excessive foot traffic or heavy soiling daily.
5. The floor can also be buffed daily with a high-speed machine fitted with a 3M Red buffing pad and Probuff

FLOOR MAINTENANCE

1. The sealer on the floor will require that it be stripped and re-sealed every 6 to 12 months depending on traffic flow and daily maintenance procedures.
2. The Proflor H is removed with Prostrip and a 3M Black stripping pad and the residue removed with a wet and dry vac.

FLOOR CLEANING

Removal of dry dirt is of paramount importance as this dirt can lead to premature wear since the dirt is abrasive and result in slippery floors. We would recommend that Masslinn disposable cloths be used for this purpose. Correct usage of Masslinn ensures that the fine dirt is collected and not re-distributed as with a dirty or overloaded mop sweeper.

Wet spillages are removed using a combination of a "Baggy" (Squeegee and bag combination) and a Vileda Micro-fibre flat mop system or a Rubbermaid Pulse system. This combination ensures that dirt and

PERFORMANCE PROPERTIES:

Performance Criteria	ASTM Standard	Typical Results
Tensile Strength	D412	>200 PSI
Flexibility	F137	Pass 1/4" Mandrel
Coefficient of Friction	D2047	>0.9
Thermal Conductivity	C518	>0.4 Btu-in/h-ft ² -F
Static Load Limit @400 lbs	F970	>0.005"
Chemical Resistance	F925	No Change
Impact Insulation Class	E492	50
Sound Transmission Coefficient	E413	56
Noise Reduction Coefficient	C423	0.05 Sabine/ft ²
Sustainability	E2129	Data Collected
CHPS Section 01350	D5116	Pass

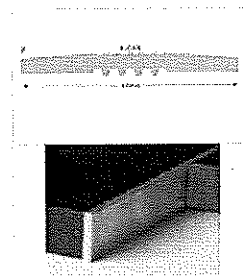
NOTE :

(Polyflor 011-609 3500) <http://www.polyflor.co.za/>

- a) Where applicable, all expansion joints in screed to be according to vinyl sheet expansion joint detail. Complete with EJC65 Polyspan joint cover - Strip and welding rod colours to Architects approval.

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za/>)

- b) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip (Code BFB253) cast into screed at position as indicated on detail drawing (flush with floor finish).


**A49. EXTERNAL PORCELAIN FLOOR TILES (EXTERNAL)**

Vitrified full body porcelain tiles with a water absorption (EN ISO 10545-3) of less than 0,1% and a scratch resistance (EN ISO 10545-7) of <150mm³. Slip classification (DIN 51130 (R) to be R11 – all according to detail tile layout.

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Install with a proprietary tile adhesive as recommended by the manufacturer on well-prepared screed to suit required level. Generally we recommend TAL GOLDSTAR 6 or 12. However, each application is different and the final specification will be dependent on the type of floor, i.e. Surface bed or suspended slab. It will depend on whether the floor is screeded, power floated or rough concrete.



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Finish all joints with a proprietary grout as recommended by the manufacturer, colour to architects approval. Generally we recommend TAL INDUSTRIAL EPOXY GROUTS.

NOTES :

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

a) Where applicable, all movement joints in floor to be M-Trim stainless steel heavy duty movement joint 10mm high (Code SMJ100), fitted with 6mm wide polyurethane infill to suit tiling. Colour to Architect's approval

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

b) Where applicable, all structural joints in floor to be M-Trim aluminium structural screed expansion joint 39mm high (Code ASSJ390) with Natural mill colour finish code N fitted with 38mm wide flexible PVC infill, plugged and screwed to floor base on one side of expansion joint. Colour to Architect's approval.

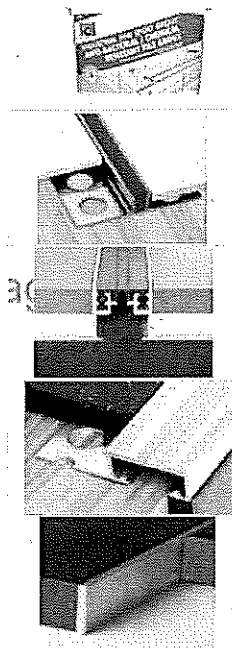
(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

c) Where applicable, all stair noses to be provided with M-Trim aluminium tile-in stair nosing size 25 x 10mm high (Code ATIN100) to suit tiling thickness, fitted on treads. Colour to Architect's approval.

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

d) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip (Code BFB253) cast into screed at position as indicated on detail drawing (flush with floor finish).

e) All tiled areas on multi-storey buildings to receive Coprox waterproofing in screed and 100 mm high on walls – all applied strictly to manufacturers specifications



A98. REMOVE EXISTING WOODEN FLOORS, ADD NEW FLOOR SLAB AND FINISH WITH HEAVY AND HIGH TRAFFIC COMMERCIAL PORCELAIN FLOOR TILES (INTERNAL)(STANDARD)


PR00
2017/08/14

SURFACE PREPARATION & SEQUENCE:

Remove existing and or remainders of wooden floors, backfill area to avoid foundation sagging and moisture filtration. Cast concrete surface bed on dpm on clean sand on well compacted hardcore - all strictly to Structural engineers detail specifications. Note: FFL of building to be uniform. Prepare test and inspect surface bed to be min 20mps and crack free and install an Class AR2 40mpa -abrasion resistance and Class1 - Deviations Monolithic screed minimum 25mm and max 50mm thick - all material to comply with SABS1083. Screed thickness exclude floor finish and it is the contractor's responsibility to vary surface bed levels to ensure an uniform Finished floor level irrespective of floor finish type. Check strength and condition of topping, remove any crumbling and powdery areas of the screed. Fill these areas in with a suitable concrete mixture. Perform a moisture test (with a Protimeter or other approved moisture readers) to ensure your RH% is below 70% (Protimeter reading must be below 18) If moisture readings are above 70% RH a recommended moisture barrier will be required. Install a 5mm self-levelling compound as per manufacturer's instructions to ensure a smooth and level surface. It is best practice to use the same manufacturer for moisture barrier, primer and self-levelling compound to ensure compatibility and one manufacturer guarantee. Replace with new Full Bodied Porcelain Floor tiles.

FINISH APPLICATION:

Vitrified full body porcelain tiles with a water absorption (EN ISO 10545-3) of less than 0,1% and a scratch resistance (EN ISO 10545-7) of <150mm³. Slip classification (DIN 51130 (R) to be R9 – all according to detail tile layout. All strictly to manufacturer's specifications. Colour and type to Architect's approval.

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Install with a proprietary tile adhesive as recommended by the manufacturer on well-prepared screed to suit required level. Generally we recommend TAL GOLDSTAR 6 or 12. However, each application is different and the final specification will be dependent on the type of floor; i.e. Surface bed or suspended slab. It will depend on whether the floor is screeded, power floated or rough concrete.



Finish all joints with a proprietary grout as recommended by the manufacturer, colour to architects approval. Generally we recommend TAL INDUSTRIAL EPOXY GROUTS.



NOTES :

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

a) Where applicable, all movement joints in floor to be M-Trim stainless steel heavy duty movement joint 10mm high (Code SMJ100), fitted with 6mm wide polyurethane infill to suit tiling. Colour to Architect's approval



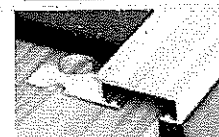
(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

b) Where applicable, all structural joints in floor to be M-Trim aluminium structural screed expansion joint 39mm high (Code ASSJ390) with Natural mill colour finish code N fitted with 38mm wide flexible PVC infill, plugged and screwed to floor base on one side of expansion joint. Colour to Architect's approval.



(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

c) Where applicable, all stair noses to be provided with M-Trim aluminium tile-in stair nosing size 25 x 10mm high (Code ATIN100) to suit tiling thickness, fitted on treads. Colour to Architect's approval.



(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

d) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip (Code BFB253) cast into screed at position as indicated on detail drawing (flush with floor finish).

e) All tiled areas on multi-storey buildings to receive Coprox waterproofing in screed and 100 mm high on walls – all applied strictly to manufacturers specifications

A108. GRANO (STEEL FLOAT)

PR00
2017/08/14

32mm Thick Untinted granolithic finished cement screed with or without falls on concrete surface bed with a steel float finish all according to Structural Engineer's detail drawings.

REVISIONS

0


P2-100-B-Skirting finishes (1)

STATUS	PRE-CONSTRUCTION	PROJECT DATE
PROJECT TITLE	ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL	PROJECT NO:
		20080-1-ORT011
		REV NO: PR00
		Date 14-Aug-17

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
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P1

Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.

P2

Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.

P3

Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)

P4

TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

B2 PORCELAIN FLOOR TILES SKIRTING (100mm HIGH)

Type Ditto floor tiles - (size, joints and type to match floor tiles), cut to form skirting, (recessed into wall to be flush with wall tiles if wall is tiled), install with tile adhesive as recommended by tile manufacturer on well-prepared plaster. Finish all joints with COPROX waterproof grout. All strictly to manufacturer's specifications. Colour and type to Architect's approval.

NOTES :

a) Where applicable, all movement and structural joints in skirting to be 8mm, filled with an approved waterproof soft sealant (suitable for wet areas). Colour and type to Architect's approval.

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

b) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip (Code BFB253) cast into screed at position as indicated on detail drawing (flush with floor finish).



B4. WOOD SKIRTING (PAINT) 75mm X 19mm

75mm x 19mm thick hardwood skirting. Plug and screw to wall. Finish with approved oil based (VELVAGLO) paint system. Strictly to manufacturer's specifications. Colour and finish to Architect's approval.

NOTE :

a) Where applicable, all expansion joints in skirting to be formed with a 10mm polysulphide filled joint. Colour to match skirting.

REVISIONS

0

P2-100-C-Walls finishes (4)

STATUS	PRE-CONSTRUCTION	PROJECT DATE
PROJECT TITLE	ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL	PROJECT NO:
		20080-1-ORT011
		REV NO: PR00
		Date 14-Aug-17

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- P1** Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.
- P2** Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.
- P3** Existing buildings - Prepare and repair existing walls (remove existing wall tiles) and plaster new walls - all to match existing walls and finish as specified.
- P4** Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
- P5** TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.
- P6** Economy specifications have an approximate life span of three years.

C3. NEW INTERNAL PLASTER WALL WITH PAINT FINISH (PLASCON WALL & ALL TO INTERIOR NEW CEMENT PLASTER (NW 100t) (2 COATS)

PR00
2017/08/14

SURFACE PREPARATION & SEQUENCE

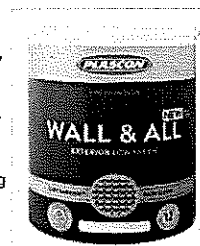
Ditto C1 - NEW INTERNAL PLASTER BRICK WALL

- Moisture content measured with a Doser Hygrometer (or equivalent) must not exceed the following limits before painting:
 - concrete, off-shutter, pre-cast : BD 4 scale - 5%
 - cement plaster, brickwork, fibre-cement : BD 2 scale - 8%
- Ensure that surfaces are dry, sound and clean.
- Concrete must cure for minimum 28 days and cement plaster 14 days before painting.
- Remove any hollow and soft/underbound plaster and replaster.
- Remove dirt and loose particles.
- Remove any oil, grease and other contaminants with Plascon Metalcare Aquasolv Degreaser (GR 1) working it well into affected areas with bristle broom or brush. Leave for 20 minutes to react, then rinse thoroughly with fresh water to remove all traces of Plascon Metalcare Aquasolv Degreaser (GR1), using high pressure water jet or scrubbing with brush or broom. Allow to dry completely.
- Remove fungi and algae by scrubbing with a solution of household bleach (3.5% sodium hypochlorite) - 1 part bleach to 2 parts water by volume. Leave for 1 hour, then brush off with a bristle brush. Rinse thoroughly with tap water to remove all traces of bleach and allow to dry.
- Fill cracks and other surface defects with the appropriate Polycell filler - refer Surface Preparation, SP4 Crack Repair.

APPLICATION:

- Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.
- Please note: When YELLOW top coats are selected for New Work Application it is imperative to use Plascon Professional Plaster Primer - PP950 (Alkali Burn Resistance Primer) in place of (PP700) plaster primers as pH levels may be exceptionally high on new or hairline cracked plaster.
- Apply TERRACO EZ Skim (TER 1200) to achieve a continuous film. Allow 2 hours to dry.
- Apply two full coats of Plascon Wall & All (WAA) to achieve complete obliteration, allowing 2 hours drying between coats.


All strictly to manufacturers detail specification . Colours to Architect's approval.



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C4. CERAMIC WALL TILES (splash back)

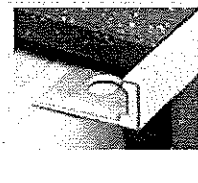
Ditto C1 – Prepare wall and install glazed wall tiles with 2mm joints (800mm wide x 1200mm High at wash hand basin and 400mm high for length of top and adjacent side walls) installed rectangular or diagonal with a diagonal or rectangular dado tile pattern length. Install with tile adhesive as recommended by tile manufacturer. Finish all joints with an approved grout on well-prepared plaster. Install all strictly to manufacturer's specifications. Colour, pattern and type to Architect's approval.

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(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

NOTE :

- All wall tiles to be in panels not larger than 2 x 2m without a 2 mm silicone joint. Colour, pattern and type to Architect's approval.
- Where applicable, all structural expansion joints in wall to be formed with a 8 mm silicone filled joint. Colour to match grout.
- Where applicable, all external corners to be provided with external aluminium straight edge trimming as by KIRK (catalogue Product code 686) or equal approved. Colour and type to Architect's approval.



In the event of drywall wall filling:

For improved vapour resistance, seal the surface using Gyproc Gypseal

All walls must be primed with 2 parts weber.prim Plaskey WB 250 mixed with 1 part weber.ad Key it WB 117

Apply to a thickness of 1,5 - 2mm using a builders block brush. Allow 24 hours to dry before tiling commence.

Maximum tile weight shall be 20kg/SQM. For heavier tile consult Saint-Gobain.

Use weber.set tile Adhesive mixed with only clean cold water. Apply to surface to a maximum 3mm bed thickness, or maximum 6mm weber.grout mixed with weber.ad bond it WB 183

For showers use Weber shower kit

C5. SPECIALIST DECORATIVE & PROTECTIVE COATING - MULTISHEEN

COMET COATINGS (0861 266 381)(021-703 9058)

Comet Multisheen is a smooth stipple coating, with extremely durable properties and based on acrylic resins of outstanding quality. The finish produced is a high impact velvet smooth round stipple that is easily cleaned and ideally suited for corridors passages stairwells and exterior facades also hiding surface imperfections.

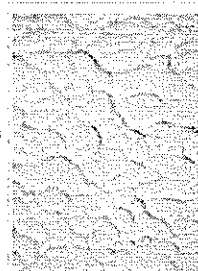
Plaster mix for rough brick walls in one operation, composed of 1 part Surebuild cement (Code: CEM II/B 32,5R) and 6 parts sand, ± 12 mm thick finished with a steel trowel to receive a wall finish as specified elsewhere or wood float to receive tiles to rough brick walls. Surebuild cement is to be manufactured in accordance with SANS 50197-1.

NOTE :

- Where applicable, all expansion joints in wall to be filled with polysulphide and covered with a 100mm x 3mm thick natural aluminium strip. Plug and screw (counter sunk screws at maximum 150mm c/c) to one side of joint.

Prepare substrate by removing all loose and friable matter. Stop and fill where necessary. Ensure that the surface is clean, dry and sound. Apply one coat Comet Acrylic Primer followed by one coat Comet Multisheen Strippie Paint - all to manufacturers detail specifications. To be applied only by Comet Wall Coatings. Colours & texture to Architect's approval. (Pre-approve sample)

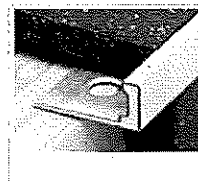
PR00
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C31 CERAMIC WALL TILES (skirting to 2125 UFFL)

Ditto C1 - Prepare wall and install glazed ceramic wall tiles with 2mm joints installed rectangular or diagonal with a diagonal or rectangular dado tile pattern. Install with tile adhesive as recommended by tile manufacturer. Finish all joints with an approved grout on well-prepared plaster. Install all strictly to manufacturer's specifications. Colour, pattern and type to Architect's approval.

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(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

NOTE :

- All wall tiles to be in panels not larger than 2 x 2m without a 2 mm silicone joint. Colour, pattern and type to Architect's approval.
- Where applicable, all structural expansion joints in wall to be formed with a 8 mm silicone filled joint. Colour to match grout.
- Where applicable, all external corners to be provided with external aluminium straight edge trimming as by KIRK (catalogue Product code 686) or equal approved. Colour and type to Architect's approval.

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In the event of drywall wall tiling:

For improved vapour resistance, seal the surface using Gyproc Gypseal
All walls must be primed with 2 parts weber.prim Plaskey WB 250 mixed with 1 part weber.ad Key it WB 117
Apply to a thickness of 1.5 - 2mm using a builders block brush. Allow 24 hours to dry before tiling commence.
Maximum tile weight shall be 20kg/SQM. For heavier tile consult Saint-Gobain.
Use weber.set tile Adhesive mixed with only clean cold water. Apply to surface to a maximum 3mm bed thickness, or maximum 6mm weber.grout mixed with weber.ad bond it WB 183

For showers use Weber shower kit

C33. PORCELAIN WALL TILES (SPLASH BACK)

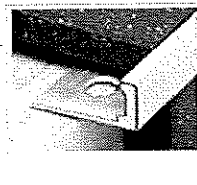
PR00
2017/08/14

Ditto C1 – Prepare wall and install glazed wall tiles with 2mm joints (800mm wide x 1200mm High at wash hand basin and 400mm high for length of top and adjacent side walls) installed rectangular or diagonal with a diagonal or rectangular dado tile pattern length. Install with tile adhesive as recommended by tile manufacturer. Finish all joints with an approved grout on well-prepared plaster. Install all strictly to manufacturer's specifications. Colour, pattern and type to Architect's approval.

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

NOTE :

- All wall tiles to be in panels not larger than 2 x 2m without a 2 mm silicone joint. Colour, pattern and type to Architect's approval.
- Where applicable, all structural expansion joints in wall to be formed with a 8 mm silicone filled joint. Colour to match grout.
- Where applicable, all external corners to be provided with external aluminium straight edge trimming as by KIRK (catalogue Product code 686) or equal approved. Colour and type to Architect's approval.



In the event of drywall wall tiling:

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Maximum tile weight shall be 20kg/SQM. For heavier tile consult Saint-Gobain.
Use weber.set tile Adhesive mixed with only clean cold water. Apply to surface to a maximum 3mm bed thickness, or maximum 6mm weber.grout mixed with weber.ad bond it WB 183

For showers use Weber shower kit


C62. REPAIR EXISTING PLASTER AND RE-PAINT WITH PLASCON WALL & ALL (STANDARD)

PR00
2017/08/14

Remove loose plaster and scrape in the crack with your putty knife to open it up a little and give the plaster a bit more surface to stick to. Then sand around the crack to roughen up the paintwork. Now dust the surface down with a rag and cover the crack with a piece of jointing tape. Scrape the plaster compound into the crack and flatten it on to the wall with your paint scraper. Once the compound is dry, lightly sand it until it is smooth. Dust the wall off and apply a second, slightly wider coat of plaster compound to the wall. Again, let the compound dry, sand it smooth and dust it down.

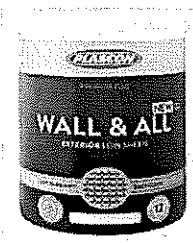
SURFACE PREPARATION & SEQUENCE

- Moisture content measured with a Doser Hygrometer (or equivalent) must not exceed the following limits before painting:
 - concrete, off-shutter, pre-cast : BD 4 scale - 5%
 - cement plaster, brickwork, fibre-cement : BD 2 scale - 8%
- Ensure that surfaces are dry, sound and clean.
- Concrete must cure for minimum 28 days and cement plaster 14 days before painting.
- Remove any hollow and soft/underbound plaster and re-plaster.
- Remove dirt and loose particles.
- Remove any oil, grease and other contaminants with Plascon Metalcare Aquasolv Degreaser (GR 1) working it well into affected areas with bristle broom or brush. Leave for 20 minutes to react, then rinse thoroughly with fresh water to remove all traces of Plascon Metalcare Aquasolv Degreaser (GR1), using high pressure water jet or scrubbing with brush or broom. Allow to dry completely.
- Remove fungi and algae by scrubbing with a solution of household bleach (3,5% sodium hypochlorite) - 1 part bleach to 2 parts water by volume. Leave for 1 hour, then brush off with a bristle brush. Rinse thoroughly with tap water to remove all traces of bleach and allow to dry.
- Fill cracks and other surface defects with the appropriate Polycell filler - refer Surface Preparation, SP4 Crack Repair.

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Print Date : 14-Aug-17	Drawing Description: P2-100-C-Walls finishes	Rev. nr. : PR00	Job nr. : 20080-1-ORT011	Pages : 4	

PAINT APPLICATION:

- Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.
- Please note: When YELLOW top coats are selected for New Work Application it is imperative to use Plascon Professional Plaster Primer - PP950 (Alkali Burn Resistance Primer) in place of (PP700) plaster primers as pH levels may be exceptionally high on new or hairline cracked plaster.
- Apply TERRACO EZ Skim (TER 1200) to achieve a continuous film. Allow 2 hours to dry.
- Apply two full coats of Plascon Wall & All (WAA) to achieve complete obliteration, allowing 2 hours drying between coats.



All strictly to manufacturers detail specification. Colours to Architect's approval.

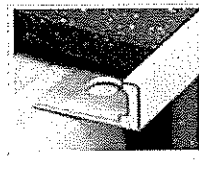
C64. NEW WHITE GLAZED WALL TILES (SPLASH BACK)(STANDARD)

PR00
2017/08/14

Ditto C1 – Prepare wall and install glazed ceramic 200 x 200 x 8mm Johnson matt wall tiles with 3mm joints (800mm wide x 1200mm High at wash hand basin and 400mm high for length of top and adjacent side walls) installed rectangular or diagonal with a diagonal or rectangular dado tile pattern length. Install with tile adhesive as recommended by tile manufacturer. Finish all joints with an approved grout on well-prepared plaster. Install all strictly to manufacturer's specifications. Colour, pattern and type to Architect's approval.

NOTE :

- All wall tiles to be in panels not larger than 2 x 2m without a 2 mm silicone joint. Colour, pattern and type to Architect's approval.
- Where applicable, all structural expansion joints in wall to be formed with a 8 mm silicone filled joint. Colour to match grout.
- Where applicable, all external corners to be provided with external aluminium straight edge trimming as by KIRK (catalogue Product code 686) (032-525 4507) or equal approved. Colour and type to Architect's approval.



In the event of drywall wall tiling:

For improved vapour resistance, seal the surface using Gyproc Gypseal
All walls must be primed with 2 parts weber.prim Plaskey WB 250 mixed with 1 part weber.ad Key it WB 117
Apply to a thickness of 1.5 - 2mm using a builders block brush. Allow 24 hours to dry before tiling commence.
Maximum tile weight shall be 20kg/SQM. For heavier tile consult Saint-Gobain.
Use weber.set tile Adhesive mixed with only clean cold water. Apply to surface to a maximum 3mm bed thickness, or maximum 6mm weber.grout mixed with weber.ad bond it WB 183

For showers use Weber shower kit

C66. NEW WHITE GLAZED WALL TILES (SKIRTING TO 2125mm HEIGHT)(STANDARD)

PR00
2017/08/14

Ditto C1 – Prepare wall and install 200 x 200 x 8mm Johnson matt glazed ceramic wall tiles with 3mm joints installed rectangular or diagonal with a diagonal or rectangular dado tile pattern. Install with tile adhesive as recommended by tile manufacturer. Finish all joints with an approved grout on well-prepared plaster. Install all strictly to manufacturer's specifications. Colour, pattern and type to Architect's approval.

NOTE :

- All wall tiles to be in panels not larger than 2 x 2m without a 2 mm silicone joint. Colour, pattern and type to Architect's approval.
- Where applicable, all structural expansion joints in wall to be formed with a 8 mm silicone filled joint. Colour to match grout.
- Where applicable, all external corners to be provided with external PVC trimming as by KIRK (catalogue number PRE) (032-525 4507) or equal approved. Colour and type to Architect's approval.

In the event of drywall wall tiling:

For improved vapour resistance, seal the surface using Gyproc Gypseal
All walls must be primed with 2 parts weber.prim Plaskey WB 250 mixed with 1 part weber.ad Key it WB 117
Apply to a thickness of 1.5 - 2mm using a builders block brush. Allow 24 hours to dry before tiling commence.
Maximum tile weight shall be 20kg/SQM. For heavier tile consult Saint-Gobain.
Use weber.set tile Adhesive mixed with only clean cold water. Apply to surface to a maximum 3mm bed thickness, or maximum 6mm weber.grout mixed with weber.ad bond it WB 183

For showers use Weber shower kit

REVISIONS

0


P2-100-D-Ceiling finishes (5)

STATUS	PRE-CONSTRUCTION	PROJECT DATE			
PROJECT TITLE	ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL	PROJECT NO:			
		20080-1-ORT011			
		REV NO:	PR00	Date	14-Aug-17

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		 HDG			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
14-Aug-17	P2-100-D-Ceiling finishes	PR00	20080-1-ORT011	5	

- P1** Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract
- P2** Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.
- P3** Existing buildings – remove existing ceilings secure all existing bradering to a level surface to receive new plasterboard ceiling as specified.
- P4** Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
- P5** TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.
- P6** Existing buildings – If required - remove existing ceilings and secure all existing bradering to a level surface to receive new plasterboard ceiling as specified.
- P7** Economy specifications have an approximate life span of three years.

D2. CONCRETE CEILING

PR00
2017/08/14

Apply ±12mm thick cement plaster 1:4 mixture to ceilings (R.C. slab & beams) in one operation with steel trowel. All to manufacturer's detail specifications Colour to Architect's approval.

Cornice :

46mm x 24mm Hardwood Cornice, Complete with 10mm x 10mm shadow-line at sidewall and splayed corner at internal face to detail drawing. Stop, fill, sand down and prepare wood surfaces. Prepare surfaces and remove all loose material. Apply paint system for unpainted substrate to match ceiling. Colour and type to Architect's approval.

SURFACE PREPARATION

Surface to be dry, sound and clean and cured for a minimum of 28 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 4 scale - 5% or less. Apply Polycell Mendall 90 flexible crackfiller to holes and cracks.

APPLICATION:

Prime with one coat Plascon Plaster Primer (UC 56) with an over coating time of 16 hours and finish with two coats Wall & All (WAA 1) with 2 hours drying time between coats to new ceilings to cover surface sufficiently - all to detail drawings. Colours to Architect's approval.

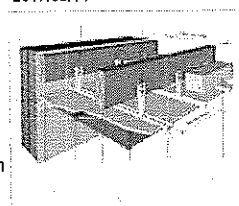


D4. FLUSH PLASTERED STEEL BRANDERED PLASTERBOARD CEILINGS (SUSPENDED)

PR00
2017/08/14

GYPROC RhinoCeil Prestige J flush jointed ceiling 9,5mm thick Taper-edge Rhinoboard fixed print side up and screwed to Donn T37K galvanised steel capped tee flush plastered ceiling suspension system with drywall screws spaced at 150mm centres, including galvanised main tees at 1200mm centres and cross tees at 500mm centres, all suspended with 25 x 25mm galvanised angles at not exceeding 1200mm centres, all fixed to trusses at centres.

Note: Skimmed plasterboard/ skimmed joint ceiling may not exceed 10m in any direction without expansion joint. Pre-approved positions prior to installation. All to comply with SABS standards.



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Cornice:

Curved walls - GYPROC 25 x 25mm PVC wall angle cornice plugged. (Code 1877)

Straight walls - GYPROC 45 x 35mm flush plaster trim (9,5mm thick) cornice plugged. (Code 1972)

SURFACE PREPARATION

Joints to be taped and finished as per manufacturer's instructions complete with SABISA certificate. Ensure surfaces are dry, sound and free from surface contaminants, e.g. loose particles, dust, oil, etc.

- Soft undercured surfaces may be restored to a sound surface with Plascon Bonding Liquid (CVI 14) thinned 20% by volume with Mineral Turpentine (AZH 1). Allow 16 hours to dry, but not more than 48 hours, before painting.

- Make good defects using Plascon Polycell Polyfilla Interior (10 10 02) or Plascon Polycell Polyfilla Fine Crack Filler

(10 18 01). Allow at least 30 minutes to dry and sand smooth with 220 grit paper and dust off.

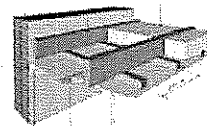
APPLICATION:

- Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.

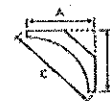
- Apply one coat PLASCON Wall & All (WAA) Pure Acrylic paint, thinned 20% and one coat PLASCON Wall & All Pure Acrylic paint to new ceilings to cover surface sufficiently - all to detail drawings. Colours to Architect's approval.

**D12. NEW PLASTERBOARD M-STRIP TIMBER BRANDERED CEILINGS WITH COVED CORNICE AND PLASCON WALL & ALL PAINT.**PR00
2017/08/14

GYPROC 8,4mm RhinoCeil Standard M-Strip ceiling with square edged Rhinoboard fixed print side up, at right angles to brander using 32mm galvanised semi-clout nails or 32mm grabber screws at 150mm centers to 38 x 50mm (with 50mm dimension vertical) SA Pine brander at 400mm centres in one direction only with plastic M-Strip cover strips over joints with all nail or screw heads stopped and sanded level when dry all fixed to trusses at centres exceeding 1000mm, not exceeding 1200mm. All as per manufacturers instructions complete with SABISA certificate.

**Cornice:**

GYPROC RhinoArt Standard 75mm GYPROC plaster coved cornice, code 1295 fixed to wall with 38mm galvanised clout or steel nails at 300mm centres into wall, and to the brander at 450mm centres.

**SURFACE PREPARATION**

Joints to be taped and finished as per manufacturer's instructions complete with SABISA certificate. Ensure surfaces are dry, sound and free from surface contaminants, e.g. loose particles, dust, oil, etc.

- Soft undercured surfaces may be restored to a sound surface with Plascon Bonding Liquid (CVI 14) thinned 20% by volume with Mineral Turpentine (AZH 1). Allow 16 hours to dry, but not more than 48 hours, before painting.

- Make good defects using Plascon Polycell Polyfilla Interior (10 10 02) or Plascon Polycell Polyfilla Fine Crack Filler


(10 18 01). Allow at least 30 minutes to dry and sand smooth with 220 grit paper and dust off.

APPLICATION:

- Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.

- Apply one coat PLASCON Wall & All (WAA) Pure Acrylic paint, thinned 20% and one coat PLASCON Wall & All Pure Acrylic paint to new ceilings to cover surface sufficiently - all to detail drawings. Colours to Architect's approval.

**D16. SHAPED FLUSH PLASTERED STEEL BRANDERED PLASTERBOARD CEILINGS (SUSPENDED)**PR00
2017/08/14

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
14-Aug-17	P2-100-D-Ceiling finishes	PR00	20080-1-ORT011	5	

GYPROC RhinoCeil Prestige J flush jointed ceiling 9,5mm thick Taper-edge Rhinoboard fixed print side up and screwed to Donn T37K galvanised steel capped tee flush plastered ceiling suspension system with drywall screws spaced at 150mm centres, including galvanised main tees at 1200mm centres and cross tees at 500mm centres, all suspended with 25 x 25mm galvanised angles at not exceeding 1200mm centres, all fixed to trusses at centres.



Note: Skimmed plasterboard ceiling may not exceed 10m in any direction without expansion joint. Pre-approved positions prior to installation. All to comply with SABISA standards.

Cornice:

Curved walls - GYPROC 25 x 25mm PVC wall angle cornice plugged. (Code 1877)

Straight walls - GYPROC 45 x 35mm flush plaster trim (9,5mm thick) cornice plugged. (Code 1972)

SURFACE PREPARATION

Joints to be taped and finished as per manufacturer's instructions complete with SABISA certificate. Ensure surfaces are dry, sound and free from surface contaminants, e.g. loose particles, dust, oil, etc.

- Soft undercured surfaces may be restored to a sound surface with Plascon Bonding Liquid (CVI 14) thinned 20% by volume with Mineral Turpentine (AZH 1). Allow 16 hours to dry, but not more than 48 hours, before painting.

- Make good defects using Plascon Polycell Polyfilla Interior (10 10 02) or Plascon Polycell Polyfilla Fine Crack Filler

(10 18 01). Allow at least 30 minutes to dry and sand smooth with 220 grit paper and dust off.

APPLICATION:

- Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.

- Apply one coat PLASCON Wall & All (WAA) Pure Acrylic paint, thinned 20% and one coat PLASCON Wall & All Pure Acrylic paint to new ceilings to cover surface sufficiently - all to detail drawings. Colours to Architect's approval.

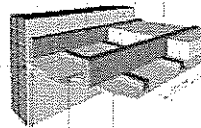


D61. REMOVE OLD ROOF AND CEILINGS THEN REPLACE WITH PLASTERBOARD M-STRIP TIMBER BRANDERED CEILINGS WITH COVED CORNICE AND PLASCON WALL & ALL PAINT. (STANDARD)

PR00
2017/08/14

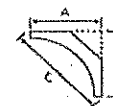
Remove existing roofing material, ceiling and purlins, service and secure existing roof structure. Install new purlins (as designed by structural engineer) to suit roof covering complete with roof insulation/underlay specified elsewhere.

GYPROC 6,4mm RhinoCeil Standard M-Strip ceiling with square edged Rhinoboard fixed print side up, at right angles to brander using 32mm galvanised semi-clout nails or 32mm grabber screws at 150mm centers to 38 x 50mm (with 50mm dimension vertical) SA Pine brander at 400mm centres in one direction only with plastic M-Strip cover strips over joints with all nail or screw heads stopped and sanded level when dry all fixed to trusses at centres exceeding 1000mm, not exceeding 1200mm. All as per manufacturers instructions complete with SABISA certificate.



Cornice:

GYPROC RhinoArt Standard 75mm GYPROC plaster coved cornice, code 1295 fixed to wall with 38mm galvanised clout or steel nails at 300mm centres into wall, and to the brander at 450mm centres.



SURFACE PREPARATION:

Surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely.


APPLICATION:

Apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, one coat PLASCON Wall & All Pure Acrylic paint to new plaster board ceilings to cover surface sufficiently. Colours to Architect's approval.

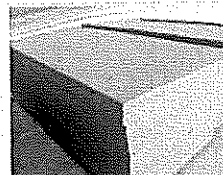


D63. GYPROC MOISTURE RESISTANT PLASTERBOARD

PR00
2017/08/14

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
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NEW Nutec Gypsum plasterboard with water repellent additives in the core and paper liners J flush jointed ceiling 12.5mm thick Taper-edge, fixed print side up and screwed to Donn T37K galvanised steel capped tee flush plastered ceiling suspension system with drywall screws spaced at 150mm centres, including galvanised main tees at 1200mm centres and cross tees at 500mm centres, all suspended with 25 x 25mm galvanised angles at not exceeding 1200mm centres, all fixed to trusses at centres. Gyproc Moisture Resistant consists of an aerated gypsum core with water repellent additives encased in, and firmly bonded strong paper liners.



Note: Skimmed plasterboard/ skimmed joint ceiling may not exceed 10m in any direction without expansion joint. Pre-approved positions prior to installation. All to comply with SABISA standards.

Cornice:

According to detail provided. Detail will vary according to area where ceiling is applied.

SURFACE PREPARATION

Joints to be taped and finished as per manufacturer's instructions complete with SABISA certificate Ensure surfaces are dry, sound and free from surface contaminants, e.g. loose particles, dust, oil, etc.

- Soft undercured surfaces may be restored to a sound surface with Plascon Bonding Liquid (CVI 14) thinned 20% by volume with Mineral Turpentine (AZH 1). Allow 16 hours to dry, but not more than 48 hours, before painting.
- Make good defects using Plascon Polycell Polyfilla Interior (10 10 02) or Plascon Polycell Polyfilla Fine Crack Filler (10 18 01). Allow at least 30 minutes to dry and sand smooth with 220 grit paper and dust off.

APPLICATION:

- Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.
- Apply one coat PLASCON Wall & All (WAA) Pure Acrylic paint, thinned 20% and one coat PLASCON Wall & All Pure Acrylic paint to new ceilings to cover surface sufficiently - all to detail drawings. Colours to Architect's approval.



INSULATION

D7. CEILING INSULATION (75mm)

ISOVER (011 360 8200)

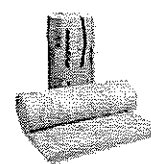
Isover 75mm thick Aerolite non-combustible light weight fibreglass Glasswool thermal ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of bracing between roof timbers, all in accordance with manufacturer's recommendations.

All to comply minimum required total r-value for climatic zones according to sans10400-xa:2011.

- R-value: 1.88m² K/W
- Thermal conductivity: 0,04 W/m²/K.

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D24. CEILING INSULATION (50mm)

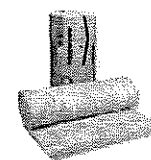
ISOVER (011 360 8200)

Isover 50mm thick Aerolite non-combustible light weight fibreglass Glasswool thermal ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of bracing between roof timbers, all in accordance with manufacturer's recommendations.

All to comply minimum required total r-value for climatic zones according to sans10400-xa:2011.


- R-value: 1,25m² K/W
- Thermal conductivity: 0,04 W/m²/K.

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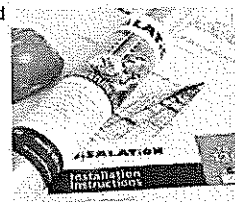


D14 SHEET METAL ROOF INSULATION (reinforced aluminium foil)

PR00
2017/08/14

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
14-Aug-17	P2-100-D-Ceiling finishes	PR00	20080-1-ORT011	5	

Sisalation® FR 430 (Rval -1.3) Fire retardant industrial grade reinforced aluminium foil insulation double sided, durable, reflective foil laminate incorporating a fire retardant between the various substrates, bonded together with low density polyethene, tested for conformance with SANS 1381-4:2009 , with a Class 1 fire rating in accordance with SANS 10177 - 3:2005 and ASTM E84 and BS 476 part 5, 6 and 7, with purlins spaced at greater than 1500mm centres with top and bottom edges folded around flat bar and pop riveted to ridge and eaves purlins, and drawn tautly over and fixed to intermediate purlins with double sided tape or contact adhesive and supported between purlins by 1,6mmØ double galvanised straining wires starting at 75mm centre then 275mm, 275mm, 275mm, 275mm and 75mm centres across each roll width securely fixed across top of purlins, with Sisalation lapped 150mm on both sides of each 1250mm width roll. All in accordance with the manufacturer's and/or supplier's specifications and recommendations.



REVISIONS

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P2-100-F-Sanitary schedule (6)

STATUS	PRE-CONSTRUCTION	PROJECT DATE
PROJECT TITLE	ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL	
		PROJECT NO:
		20080-1-ORT011
		REV NO: PR00 Date 14-Aug-17

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
14-Aug-17	P2-100-F-Sanitary schedule	PR00	20080-1-ORT011	6	

- P1** Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.
- P2** Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.
- P3** ALL stainless steel fittings to be fitted with stainless steel bolts/screws etc. Not mild steel
- P4** All stainless steel fittings (sinks etc.) to be ordered with overflows – all to match Department of Health specifications
- P5** Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
- P6** TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

(SAN001) WASH DOWN SUITE (WITH CISTERN)

Vaal Sanitaryware (016 - 360 6000) <http://www.vaalsan.co.za/>
Daisy White vitreous china semi close coupled washdown suite comprising 90° outlet open rim pan (product code 751400) and matching 9 litre front single flush cistern (product code 710532) including lid, fittings and flushpipe elbow, including lid and fittings with heavy duty seat.

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(SAN002) TOILET PAPER DISPENSER

Franke (0861 372 653)
Standard stainless steel wall mounted toilet roll holder as by FRANKE Washroom Accessories - BS 677 - (Product code 2120065), Installed strictly to manufacturers specifications. One per WC cubicle.

Recommended installation height to top of unit (875mm FFL)

PR00
2017/08/14




(SAN004) WASH HAND BASIN

VAAL Sanitaryware (016 - 360 6000) <http://www.vaalsan.co.za/>
510mm x 405mm Hibiscus vitreous china lavatory basin (product code 7023) with two tap holes, including integrated overflow, bolted to wall with two 10mm bolts (product code 8448ZO).

(SAN004) Recommended installation height to top of unit Basin (820mm FFL)
(SAN004A) Recommended Juvenile installation height to top of unit Basin (620mm FFL)

PR00
2017/08/14



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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
14-Aug-17	P2-100-F-Sanitary schedule	PR00	20080-1-ORT011	6	

Plumbing: (Cobra 011 951-5000)
Cobra Watertech Stella 15mm chrome plated basin pillar tap, with tapered flow-straightened (3314ST-15).



Plumbing: (Cobra 011 951-5000)
Cobra Watertech 32mm Machine chrome plated slotted basin waste union (303).



Plumbing: (Cobra 011 951-5000)
COBRA 309-32 "anti-theft" plug



Plumbing: (Cobra 011 951-5000)
COBRA 345/50 bottle trap, 50mm pvc outlet.



Plumbing: (Cobra 011 951-5000)
COBRA angle regulating valves – COBRA 832/350F.



(SAN013) WASH DOWN PAN

Vaal Sanitaryware (016 - 360 6000) <http://www.vaalsan.co.za/>
Daisy vitreous china semi close coupled washdown pan comprising 90° outlet open rim pan (product code 751400) flushing valve (elsewhere) including lid and fitments with heavy duty seat.

PR00
2017/08/14



Plumbing: (Cobra 011 951-5000)
Cobra Watertech exposed WC chrome plated Junior Flushmaster flushvalve (code: KF4.213) with non-hold open feature, vacuum breaker, back entry flushpipe, galvanised steel undertile box with stainless steel faceplate, palm press button, rubber pan connector and 32mm "Ball-o-Stop" control inlet.

Recommended installation height to centre of unit Button (900mm FFL)

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(SAN018/018A) LOCKABLE TOILET PAPER DISPENSER

Franke (0861 372 653)
Standard stainless steel wall mounted lockable toilet roll holder as by FRANKE Washroom Accessories - Model – STRX 672 - 2120044, Installed strictly to manufacturers specifications. One per WC cubicle.


PR00
2017/08/14



(SAN018) Recommended installation height to top of unit (820mm FFL)
(SAN018A) Recommended Juvenile installation height to top of unit (620mm FFL)

(SAN029B) STANDARD SHOWER PLUMBING WITH SHOWER WASTE

PR00
2017/08/14

<p>ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL</p>		<p>38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3842 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za</p>			
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Plumbing: (Cobra 011 951-5000)
Cobra Watertech Stella chrome Chrome plated shower under wall stop taps (3338ST-15)

Recommended installation height to centre of unit (1000mm FFL)

Plumbing: (Cobra 011 951-5000)
Cobra Watertech shower arm (026)
Cobra Watertech shower ROSE (KP2.51)

Recommended installation height to top of unit (2000mm FFL)

Plumbing (Cobra 011 951-5000)
Cobra Watertech 40mm Rough brass screwed male shower waste(373-SQ) with 75mm diameter Chrome plated shower grating (323-SQ/CP).

(SAN030/SAN030A/SAN030B) MIRROR (BASIN)

PR00
2017/08/14

450mm x 600mm High quality mirror complete with beveled edges installed on wall tiles. Plug and screw to wall with X4 chromed mirror screw with dome caps. One per basin.

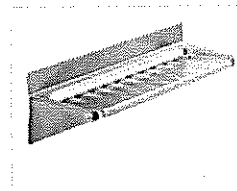
(SAN030) Recommended installation height to top of unit (1800mm FFL)
(SAN030A) Recommended Juvenile installation height to top of unit (1600mm FFL)
(SAN030B) Recommended installation height to top of unit (1850mm FFL)

(SAN038/38A) STAINLESS STEEL SOAP TRAY

PR00
2017/08/14

Franke (0861 372 653)
Franke Chronos BS 648 Grade 304 18/10 satin stainless steel soap trays (Product Code: 2120075), size 195 x 96mm deep, plugged and screwed to the wall with stainless steel screws. Installed strictly to manufacturers specifications. One per basin.

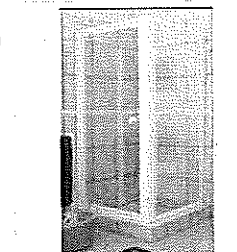
(SAN038) Recommended installation height to top of unit (1260mm FFL)
(SAN038A) Recommended Paraplegic installation height to top of unit (820mm FFL)
(SAN038B) Recommended Juvenile installation height to top of unit (620mm FFL)



(SAN041)(SAN041A)(SAN077)(SAN077a) PIVOT GLAZED SHOWER DOOR

PR00
2017/08/14

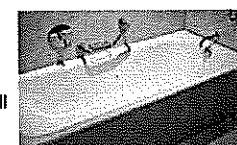
Primador (012 719 8881)
Purpose made (as shown on plan x 2065mm high) hinged (self closing) glazed shower door complete with magnetic door catch, handel edge rail and receiving wall rail with variable glazed inline side panel (remainder of wall opening x 2095mm high) to suit wall opening as by Primador or equal approved (Note: No continuous floor rail to allow cubical water drainage to shower trap). Glazed with GSA SmartGlass™ toughened safety glass, complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137:2002, Position and direction of door as per detail plan all fixed complete to walls, including pointing all round both sides of frame, all in accordance with the manufacturer's instructions. Frame colour to Architects approval. All to comply with AAMSA standards, including sertifikate. See also detail drawing. (Sample to be pre-approved.)



(SAN043) RESIDENTIAL BATH

PR00
2017/08/14

EUROSAN (011 - 826-6057)
Rectangular porcelain enamelled steel bath in colour White, overall size 1700 x 700 x 360mm high supported on 38 x 38mm timber battens fixed to adjacent walls and bed in 1:5 cement mortar on a brick bed, three bricks wide for full length of bath with the void between the bath and enclosing wall filled with 1:10 uncompacted cement mix and point all round with mildew resistant silicone between bath and tiles, all in accordance with the manufacturer's recommendations. Installed strictly to manufacturers specifications.



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<p>Print Date : 14-Aug-17</p>		<p>Drawing Description:</p>	<p>Rev. nr. :</p>	<p>Job nr. :</p>	<p>Pages :</p>
<p>P2-100-F-Sanitary schedule</p>		<p>PR00</p>	<p>20080-1-ORT011</p>	<p>6</p>	<p>HDG</p>

Plumbing: (Cobra 011 951-5000)
Cobra 15 mm Chrome plated wall-type bath mixer with diverter, halequin hand shower, flexible tube and conical cradle (3351ST-15-HQ).



Plumbing: (Cobra 011 951-5000)
Cobra bath overflow & waste (without plug and chain)(312)

Plumbing: (Cobra 011 951-5000)
COBRA 309-40 "anti-theft" plug Cobra Watertech 40mm

Plumbing: (Cobra 011 951-5000)
Cobra rough brass shallow seal bath P trap with FI outlet and two cleaning eyes (370)



(SAN058) Chrome Hose Bibtap

Plumbing: (Cobra 011 951-5000)
Cobra Watertech Star 15mm chrome plated hose bibtap (Code: 107EC-15), manufactured in accordance with SANS 226:2009 Type 1 (BS 5412).

PR00
2017/08/14



(SAN069) BANTAM WASH HAND BASIN

Vaal Sanitaryware (016 - 360 6000) <http://www.vaaalsan.co.za/>
Bantam vitreous china cloakroom basin (code: 7030), size 455 x 290mm with two tapholes, including integrated overflow and chainstay hole bolted to wall with two 10mm bolts (code: 8448Z0) and sealed with silicone sealant where basin meets wall.

(SAN069) Recommended installation height to top of unit Basin (820mm FFL)
(SAN069A) Recommended Juvenile installation height to top of unit Basin (620mm FFL)

Plumbing: (Cobra 011 951-5000)
Cobra Watertech Stella 15mm chrome plated basin pillar tap, with tapered flow-straightened (3314ST-15).

PR00
2017/08/14




Plumbing: (Cobra 011 951-5000)
Cobra Watertech 32mm Machine chrome plated slotted basin waste union (303).



Plumbing: (Cobra 011 951-5000)
COBRA 309-32 "anti-theft" plug



<p style="text-align: center;">ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL</p>		<p>38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za</p>			 <p style="text-align: right;">HDG</p>
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Plumbing: (Cobra 011 951-5000)
COBRA 345/50 bottle trap, 50mm pvc outlet.



Plumbing: (Cobra 011 951-5000)
COBRA angle regulating valves – COBRA 832/350F.

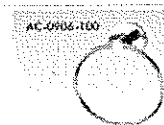


(SAN080) TOWEL RING

Cobra Watertech (0861 372 653)
Collette chrome plated towel ring (code: AC-0906-100) size 163mm diameter x 57mm thick, plugged and screwed to wall.

Recommended installation height to centre of unit (1150mm FFL)

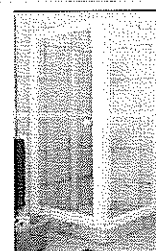
PR00
2017/08/14



(SAN071)(SAN071A)(SAN092)(SAN092A) CORNER GLAZED SHOWER DOOR

Primador (012 719 8881)
Purpose made (as shown on plan x 2065mm high) hinged (self closing) glazed shower door complete with magnetic door catch, handel edge rail and receiving wall rail with variable glazed inline side panel (remainder of wall opening x 2095mm high) leto suit wall opening, including (900 x 2095mm high) rectangular corner panel as by Primador or equal approved (Note: No continuous floor rail to allow cubical water drainage to shower trap). Glazed with GSA SmartGlass™ toughened safety glass, complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137:2002, Position and direction of door as per detail plan all fixed complete to walls, including pointing all round both sides of frame, all in accordance with the manufacturer's instructions. Frame colour to Architects approval. All to comply with AAMSA standards, including sertifikate. See also detail drawing. (Sample to be pre-approved.)

PR00
2017/08/14

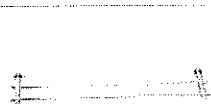


(SAN115) DOUBLE TOWEL RAIL

Franke (0861 372 653)
STANDARD 900 long X 125 mm Double towel rail manufactured from Polished Stainless Steel as by FRANKE Bathroom Accessories - Model – BHM12P - 2120083, Installed strictly to manufacturers specifications.

Recommended installation height to centre of unit (1150mm FFL)

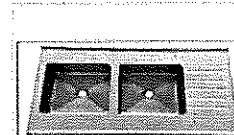
PR00
2017/08/14



(SS011/011A) STAINLESS STEEL OVERLAY SINK (1200 x 595mm)


Kwikot (011 897 4600)
Kwikot model BHA1200x595X double End (please specify which end - left or right hand bowls) Special Post Formed sink size 1200x595, manufactured in 1,2mm grade 304 Stainless steel, bowl size 410x350x150mm deep with a 12mm splashback at rear complete with 2 no:- PVC combination overflow fittings with anti theft plug and Lavateria back entry spreader to fitted to bowl on drainer end.

PR00
2017/08/14



Plumbing: (Cobra 011 951-5000)
Cobra Watertech 15mm Chrome plated one Hole sink mixer with overarm swivel spout, Mounting kit and Flexible Connection Tubes (3396/ST).



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Plumbing: (Cobra 011 951-5000)

Cobra Watertech 40mm Chrome plated unslotted basin waste union (no chain or stay) (317-40).



Plumbing: (Cobra 011 951-5000)

COBRA 309-40 "anti-theft" plug



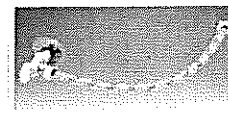
Plumbing: (Cobra 011 951-5000)

COBRA 365/50 bottle trap, 50mm, pvc outlet



Plumbing: (Cobra 011 951-5000)

COBRA angle regulating valves – COBRA 832/350F.



(SS025) STAINLESS STEEL WASH TROUGH

PR00
2017/08/14

Franke (0861 372 653)

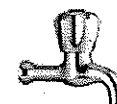
Grade 304 (18/10) stainless steel model Luxtub LDL wash trough (Code: 2560001) size 600 x 500mm x 257mm on Franke Falcon pressed galvanised mild steel brackets (Code: 212007), each twice bolted to wall with M6 expansion bolts.

Recommended installation height to top of unit (915mm FFL)



Plumbing: (Cobra 011 951-5000)

Cobra Watertech Stella 15mm chrome Chrome plated bibtap (3306ST-15).



Plumbing: (Cobra 011 951-5000)

Cobra Watertech 40mm Chrome plated unslotted basin waste union (no chain or stay) (317-40).



Plumbing: (Cobra 011 951-5000)

COBRA 309-40 "anti-theft" plug



Plumbing: (Cobra 011 951-5000)

COBRA 365/50 bottle trap, 50mm, pvc outlet



REVISIONS

0


P2-100-G-Fittings and fixtures (5)

STATUS	PRE-CONSTRUCTION	PROJECT DATE			
PROJECT TITLE	ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL	PROJECT NO:			
		20080-1-ORT011			
		REV NO:	PR00	Date	14-Aug-17

38a Stuart Street
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E-mail:
hdg@hdg.co.za



HDG

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- P1** 1. Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.
- P2** 2. Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.
- P3** 3. If schedule calls for new joinery, remove existing repair walls and floor to match existing and install with new joinery
- P4** Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
- P5** TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

(BED006) DOMESTIC SINGLE BED

PR00
2017/08/14

For space implication only – supplied by other. Information regarding required services to be specified by relevant consultant, for example: electricity, drain connection, water supply etc.

(BED014) DOMESTIC DOUBLE BED

PR00
2017/08/14

For space implication only – supplied by other. Information regarding required services to be specified by relevant consultant, for example: electricity, drain connection, water supply etc.

(BOA009) PIN BOARD

PR00
2017/08/14

VITREX SYSTEM (+27 (0)11 826 6057) <http://www.vitrex.co.za/>
 Standard 600mm x 1000mm pin board as by VITREX SYSTEM 2300. All installed strictly to manufacturer's specifications – Colour to Architects approval.



(CHA001) CHAIR, ADJUSTABLE HEIGHT, WITH ARMS, HIGH BACK, ON CASTORS

PR00
2017/08/14

For space implication only – supplied by other. Information regarding required services to be specified by relevant consultant, for example: electricity, drain connection, water supply etc.

(CHA002) CHAIR, UPRIGHT, UPHOLSTERED

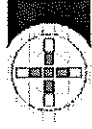
PR00
2017/08/14

For space implication only – supplied by other. Information regarding required services to be specified by relevant consultant, for example: electricity, drain connection, water supply etc.

(CUPF001-017, 10-12,19-19A,20, 22, 24-28, 30-36,39,52-60,62-67,76-86,91,92,97) MODULAR FLOOR CUPBOARDS

PR00
2017/08/14

Purpose made modular floor cupboards complete with doors, shelves, drawers and skirting - all according to joinery schedule. Colour to Architects approval.

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(CUPF018) FLOOR CUPBOARD INFILL PANEL

PR00
2017/08/14

Purpose made floor cupboards infill panel to suit each application - all according to joinery schedule.
Colour to Architects approval.

(CUPW01-05&07-09,16-17,17a, 26) MODULAR WALL CUPBOARDS

PR00
2017/08/14

Purpose made modular wall cupboards complete with doors and shelves - all according to joinery schedule. Colour to Architects approval.

(FRE001) 9Kg DRY CHEMICAL FIRE EXTINGUISHER

PR00
2017/08/14

For space implication only – supplied by other. Information regarding required services to be specified by relevant consultant, for example: electricity, drain connection, water supply etc.

(LOC003) LOCKER

PR00
2017/08/14

Locker Logistics (082 558 5153)
Standard x3 PPA 200 MICRON coated two tier change lockers (LOC/2T). Installed strictly to manufacturers specifications – Colour to Architects approval.

(LVR001) VENETIAN BLINDS

PR00
2017/08/14

Medispec Africa manually operated 50mm standard privacy and light control aluminium venetian blinds with classic string tape and stainless steel gearbox and working mechanisms. Size of blinds to be measured to fit within the window reveal and fixed to underside of lintel. Controlled by hand operated lift and tilt cords.. Installed strictly to manufacturers specification. Colour to Architects approval (Pre-approve sample)

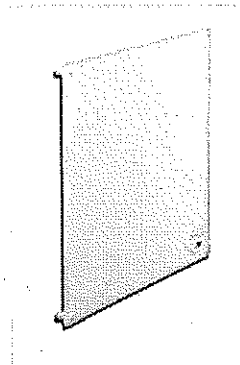
MSVB050 50mm Vanes

(PAN001) PANEL HEATER

PR00
2017/08/14

SALTON Model No: SPH55-N (<http://www.salton.co.za>) or equal approved installed strictly to manufacturers specifications.

- Convenient on/off switch
- Wall-mounted, with drill guides
- Aesthetically pleasing
- Uses minimal space
- Low wattage-economical
- Safe for pets and children
- No exposed elements
- Environment friendly
- Can be painted to suit any décor
- Heats a room sized 10-12m²
- Size: 600mm x 600mm x 11mm
- 400-500W

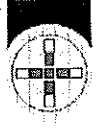
**(REF002) POSITION FOR REFRIGERATOR**

PR00
2017/08/14

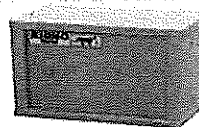
For space implication only – supplied by other. Information regarding required services to be specified by relevant consultant, for example: electricity, drain connection, water supply etc.

(SAF001) GUN SAFE

PR00
2017/08/14

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Rhino home wall safe Model WS3 in colour Dove Grey with 1 x 7-lever and 2No. keys, overall size 330 x 305 x 300mm deep with internal dimensions of 326 x 301 x 296mm deep and weight of 16kg bolted into position using expansion bolts (elsewhere specified). Installation height to Architects approval.

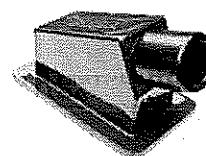


(SAF004) BPT BULLET TRAP

Tactical distributors SA (Tel. 011 823 2401) Email. sales@tacticaldistributors.co.za Website. www.tacticaldistributors.co.za

This bullet trap is specially designed for the disarming of handguns and rifles at checkpoints in all areas where handguns and rifles are checked-in, e.g. Airports, Government Buildings, Shooting Ranges, Casinos, Gun Dealers, Mines, etc.

The bullets can be of any type for example: handgun - 9mm and 45 magnum, rifles - R4, R5, 12 gauge and 7.62 x 51 armour piercing bullets as the Bullet Trap contains material that will catch armour-piercing bullets. The BPT Bullet Trap contains a unique composition of Kevlar, Ceramics, High Density GRP and Polymers contained in a steel casing. The steel casing is surrounded by shock and energy absorption silica surrounded by a smooth moulded fiberglass.



The bottom is provided with slip resistant Neoprene rubber foam to provide resistance to moving after a shot has been fired into it. As an alternative it is also possible to permanently bolt the Bullet Trap into position through the flanges on the side.

Both the SAPS Forensic Science Laboratories and the Armour Development Division of Armscor in Pretoria, South Africa, (L177, dated 14/02/2007) tested the BPT Bullet Trap using all ranges of handguns and rifles. All the findings were that the BPT Bullet Trap met the requirements as a safety device to ensure safe unloading of firearms.

(STO004) BUILD IN OVEN

DEFY (0861 003339)

Slimline 600SE Multifunction Oven - Product Code - DBO461 or equal approved.

Dimensions

Height : 600, Width : 595, Depth : 570

Aperture

Height : 590, Width : 565, Depth : 570

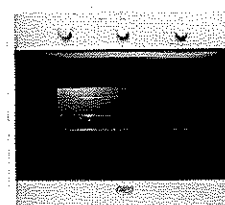
Colours

Stainless steelStainless steel

Features

A Energy, Static oven system Easy clean vitreous enamel interior, Built-in shelf rails, Ringer timer, Plastic handle, Pull-down double-glass oven door, Black glass with large viewing window, Stainless steel bottom trim panel, Fascia cooling fan, Stainless steel control panel, Oven thermostat with pilot light, 700 - 2300 temperature range, Function selector knobs, Digital oven / clock, Oven tray, Chromed shelves & Eye level. Installed strictly to manufacturers specifications. Build into cupboard as specified elsewhere.

PR00
2017/08/14



(STO005) BUILD IN HOB

DEFY (0861 003339)

Slimline Solid Stainless Steel Plate C.P - Product Code DHD 399 or equal approved.

Dimensions

Width : 510, Depth : 90, Length : 580

Aperture

Width : 490, Length : 560

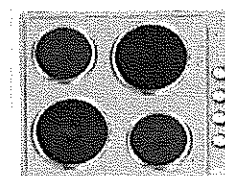
Colours

Stainless steelStainless steel

Features

4 Solid Plates, 1 High-Speed Plate, Side Control Panel. Installed strictly to manufacturers specifications. Build into cupboard as specified elsewhere.

PR00
2017/08/14



<p style="text-align: center;">ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL</p>		<p>38n Stuart Street P.O. Box 782 HARRISMITH, 9880 Tel: +27 68 622 3942 Fax: +27 68 623 0844 Mobile: 083 472 2593 E-mail: hdg@hdg.co.za</p> <p style="text-align: right;">HDG</p>			
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(SUP001-020) MILD STEEL SUPPORTPR00
2017/08/14

Purpose made epoxy powder coated made mild steel brackets and sub frames to detail design - all according to joinery schedule. Colour to Architects approval.

(TEL001) TELEPHONEPR00
2017/08/14

For space implication only – supplied by other. Information regarding required services to be specified by relevant consultant, for example: line connection etc.

(TOP034-037) 600 - Granite topPR00
2017/08/14

Length as shown on plan X 600 X 30mm Thick Granite top with bull nose to all exposed edges – all according to joinery schedule. Colour (Non standard) to Architects approval.

(TRA100) ALUMINIUM CURTAIN TRACK WITH CURTAINPR00
2017/08/14

Medi-Racer track. Code MSRT002 (0826106162)

Natural anodised extruded T4 grade aluminium formed in straight lengths up to 6m. Epoxy coated white with epoxy coated mild steel wall fixing brackets and plastic end caps. Complete with 12 wheeled runners per metre of curtain track. Rail length to be width of window reveal plus 200mm on either side, installed 100mm above window height. Installed to wall with min 60 x 5mm patented HILTI nails. Pre-approve sample for installation

Single curtain track MSRT001

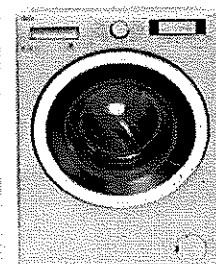
Window curtains: Medi-Tex PCD50 SABS approved unlined window curtains inherent with natural silver nano antimicrobial treatment with a composition of 60% polyester and 40% cotton and a mass of 240grams/m². Finished with a rufflette of 80cm wide enabling use of different hanging accessories. All specified hanging accessories included. Non-iron, non-stain, shrink free, flame retardant, nylon free, fully washable up to 65°C. Curtains standard with a ratio of 2:25 to length of cubicle rail.


(WAS001) WASHING MACHINE, DOMESTIC, CLOTHES, (8kg LOAD), FRONT LOADING, AUTOMATIC, ELECTRICPR00
2017/08/14

DEFY (0861 003339)

DEFY 8KG WASHING MACHINE FRONT LOADER MODEL - DAW378 or equal approved.

- 4 Main wash programmes
- 9 Additional wash programmes
- Hygienic washing at 20°C
- Touch control panel
- Buzzer function - feedback warning against wrong function selections
- Variable spin speed up to 1000 rpm
- Direct ProSmart Motor - performs various drum motions for superior wash
- Large chrome door
- Up to 50cm diameter front door
- Door handle - specially designed at 2 o'clock to reduce the need for bending to open the door
- Pump filter - engineered to reduce fluff collection
- Child lock and loading door lock function

**(WAS005) ROTARY WASHING LINE 2.1m**PR00
2017/08/14

ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL		38a Stuart Street P.O. Box 782 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
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ORANGE LINE ENGINEERING - 082 789 5865

Standard 2.1m rotary washing line complete with washing line and 1.9 installation height single pole. All elements to be epoxy powder coat. Installed strictly to manufacturer specification. Colour to Architects approval.

REVISIONS

0

P2-100-H-External finishes (11)

STATUS	PROJECT DATE			
PROJECT TITLE	PROJECT NO:			
	20080-1-ORT011			
	REV NO:	PR00	Date	16-Aug-17
	ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL			

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Email:
hdg@hcg.co.za


HDG

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Print Date : 16-Aug-17		Drawing Description: P2-100-H-External finishes	Rev. nr. : PR00	Job nr. : 20080-1- ORT011	Pages : 11

- P1 Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.
- P2
- P3 **NOTE:** As this is a existing building all finishes as indicated is only a guide line, therefore all finishes must be controlled on site to match existing buildings. Any deviations should be approved by the Architect.
- P4 **Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)**
- P5 **TRADE NAMES:** All materials, fittings and finishes specified may be replaced by equal and approved alternatives.
- P6 **ROOF INSTALLATION:** Sheetting type, sheet fixing, all flashings, valley gutters etc. complete with installation of all must be certified and signed off for functionality and water tightness by sheet manufacture. No construction may commence if any part of installation is in doubt .
- P7 Economy specifications have an approximate life span of three years.

H1. KLIP-TITE 700 0,53mm SHEET METAL ROOF COVERING FIXED TO STEEL OR TIMBER PURLINS WITH COLORBOND ULTRA COATING. (0,53mm ZINCALUME/COLORBOND)
 Global Roofing Solutions (011 - 898-2900) <http://www.globalroofs.co.za/>
 Concealed Fix 0,53mm thick 700mm cover Klip-Tite™ profile COLORBOND™ - Ultra steel AZ200 spelter G550 top coat (Non standard colour to Architect's approval) and backing coat (Non standard colour to Architect's approval) galvanised steel roof sheeting, fixed to steel intermediate purlins at max 2300mm centres and eaves and ridge purlins at 1900mm centres using KL700 clips fixed with 10No.16 x 16mm long self drilling wafer head PH2 screws, No. 3 drill point fasteners or fixed to timber intermediate purlins at 2300mm centres and eaves and ridge purlins at 1900mm centres using KL700 clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer.

Finish with COLORBOND™ to both sides on covered walkways or when exposed to bottom. Colours (Non standard) to Architect's approval.

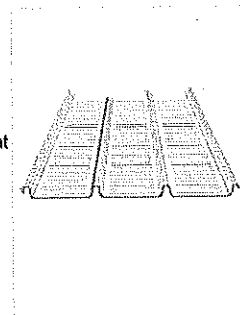
H2. RIDGE CAPPING (ZINCALUME/COLORBOND)

Global Roofing Solutions (011 - 898-2900) <http://www.globalroofs.co.za/>
 0,53mm thick COLORBOND™ - Ultra steel AZ200 spelter G550 top coat (Non standard colour to Architect's approval) and backing coat (Non standard colour to Architect's approval), girth 550mm ridge cap (Code: FK73), fixed in accordance with manufacturer's specifications. Complete with metal and poly closer without any joints (If unavoidable min. 500mm overlay, complete with sealing strips). Install strictly to manufacturer's specifications.

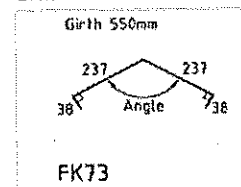
H3. BARGE FLASHING (ZINCALUME/COLORBOND)

Global Roofing Solutions (011 - 898-2900) <http://www.globalroofs.co.za/>
 0,53mm thick COLORBOND™ - Ultra steel AZ200 spelter G550 top coat (Non standard colour to Architect's approval) and backing coat (Non standard colour to Architect's approval), girth 550mm barge flash (Code: FK74), fixed in accordance with manufacturer's specifications. Complete with metal and poly closer without any joints (If unavoidable min. 500mm overlay, complete with sealing strips). Install strictly to manufacturer's specifications.

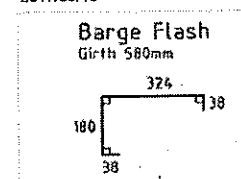
PR00
2017/08/16




PR00
2017/08/16



PR00
2017/08/16



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H10. FIBRE CEMENT FASCIA BOARD (225 High)

PR00
2017/08/16

Everite Nutech (011- 9038049) fascia boards size 15mm thick or (10mm thick for curved applications only) x 225mm high with high density plain finish, butt jointed with fascia jointing plate. Install to mild steel trusses with corrosion proof gutter bolts at max 1000mm c/c – all according to details drawing. All to Architect's approval.

SURFACE PREPARATION:

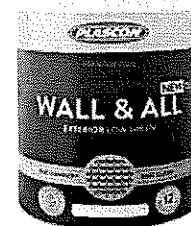
Joints to be taped and finished as per manufacturer's instructions complete with SABISA certificate Ensure surfaces are dry, sound and free from surface contaminants, e.g. loose particles, dust, oil, etc.

- Soft undercured surfaces may be restored to a sound surface with Plascon Bonding Liquid (CVI 14) thinned 20% by volume with Mineral Turpentine (AZH 1). Allow 16 hours to dry, but not more than 48 hours, before painting.
- Make good defects using Plascon Polycell Polyfilla Interior (10 10 02) or Plascon Polycell Polyfilla Fine Crack Filler (10 18 01). Allow at least 30 minutes to dry and sand smooth with 220 grit paper and dust off.

APPLICATION:

Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.

Apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, one coat PLASCON Wall & All Pure Acrylic paint to new fibre cement ceilings and cornices. Colour and type to Architect's approval.



H11. FIBRE CEMENT BARGE BOARD (225 High)

PR00
2017/08/16

Everite Nutech (011- 9038049) barge boards size 15mm thick or (10mm thick for curved applications only) x 225mm high with high density plain finish, butt jointed with fascia jointing plate. Install to mild steel purlins ends with corrosion proof gutter bolts – all according to details drawing. All to Architect's approval.

SURFACE PREPARATION:

Joints to be taped and finished as per manufacturer's instructions complete with SABISA certificate Ensure surfaces are dry, sound and free from surface contaminants, e.g. loose particles, dust, oil, etc.

- Soft undercured surfaces may be restored to a sound surface with Plascon Bonding Liquid (CVI 14) thinned 20% by volume with Mineral Turpentine (AZH 1). Allow 16 hours to dry, but not more than 48 hours, before painting.
- Make good defects using Plascon Polycell Polyfilla Interior (10 10 02) or Plascon Polycell Polyfilla Fine Crack Filler (10 18 01). Allow at least 30 minutes to dry and sand smooth with 220 grit paper and dust off.

APPLICATION:

Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.

Apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, one coat PLASCON Wall & All Pure Acrylic paint to new fibre cement ceilings and cornices. Colour and type to Architect's approval.



H14. SPECIALIST ACRYLIC PLASTICISED COATING – MARAKESH

PR00
2017/08/16

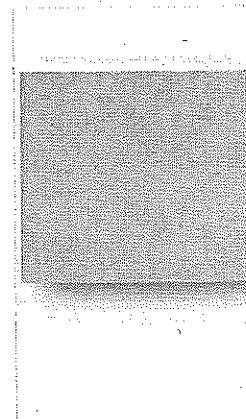
MARMORAN COATINGS (086 162 7266) (021 797 4250) <http://marmorancoatings.co.za/>
A long lasting and hard wearing coating based on a pure acrylic resin. Strong & flexible without the efflorescence associated with "cement look" brush-on products.


Plaster mix for rough brick/concrete walls, composed of 1 part Surebuild cement (Code: CEM II/B 32.5R) and 6 parts sand. ±12mm thick finished with a wood float to rough walls to receive high quality paint/ wall coating. Surebuild cement is to be manufactured in accordance with SANS 50197-1. All to manufacturer's specifications to cover surface sufficiently. Adequate time should be allowed for it to cure [confirm a moisture reading of <15%: this may take from 7-21 days, depending on weather conditions] prior to the application.

Prepare substrate by removing all loose and friable matter. Ensure that the surface is clean, dry and sound. The plaster substrate must conform to a smooth and even finish.

Apply 1 even coat of the appropriate Marmoran Textured Primer.

Apply 2 coats of Marmoran Marakesh. Seal with Marmoran Universal Glaze Coat. The system must be applied in strict conformance to the manufacturer's instructions. Colours as per the Architect's pre-approved sample.



<p style="text-align: center;">ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL</p>		<p>38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za</p>  <p style="text-align: right;">HDG</p>		
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H16. STANDARD PRE-CAST LINTEL

PR00
2017/08/16

Standard pre-cast lintel length to suit window X 110 X 75mm thick, complete with brick force above for five courses exceeding the 45-degree line.

H17. FACE BRICK IN STRETCHER BOND (RECESS JOINTS)

PR00
2017/08/16

Corobrik (031 560 3111) (<http://www.corobrik.co.za>)

Face bricks are to be Imperial FBX 222 x 106 x 73mm face bricks in stretcher bond with or with out cavity as shown on plan with well raked and smoothed joints (85mm gauge) Colour and type to ARCHITECTS approval.

H19. STOCK BRICKS

PR00
2017/08/16

Corobrik (031 560 3111) (<http://www.corobrik.co.za>)

Plastered (plaster specified elsewhere) NFX (17-17 mpa) below ground floor slab / NFP (7-10 mpa) above ground floor slab, Stock bricks are to be Imperial 222 x 106 x 73mm stock bricks in stretcher bond (SANS 227 : 2007) with or without cavity as shown on plan with flush joints (85mm gauge). All to ARCHITECTS approval.

H22. WINDOW FRAME

PR00
2017/08/16

Window/Shopfront frame complete with furniture and burglar bars according to window schedule as shown on plan. Installed strictly to manufacturers specifications

H23. DOOR AND FRAME

PR00
2017/08/16

Door and frame as shown on plan. Installed strictly to manufacturers specifications

H24. CEILING

PR00
2017/08/16

Ceiling type, finish and installation height according to ceiling plan.

H25. REINFORCED CONCRETE (STRUCTURAL)

PR00
2017/08/16

Reinforced concrete slab/beam according to Structural Engineer's detail design.

H26. FLOOR SLAB

PR00
2017/08/16

Floor finish (floor finish specified elsewhere) on well prepared 30mm thick screed on concrete surface bed(note: Internal FFL on all floor to be at one level unless otherwise indicated) – all according to Structural Engineer's detail drawings

H27. INTERNAL WALLS

PR00
2017/08/16

Finish as per finishing schedule.

H28. NEW CONCRETE APRON

PR00
2017/08/16

In-situ concrete apron/ storm water channel, complete with falls. All to Civil Engineer's detail design.


H30. GRANO (WOOD FLOAT)

PR00
2017/08/16

32mm Thick Untinted granolithic finished cement screed with or without falls on concrete surface bed with a wood float finish - all according to Structural Engineer's detail drawings.

H31. GRANO SKIRTING

PR00
2017/08/16

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75mm High covered untinted granolithic finished cement screed skirting (75mm high).

H35. BALUSTRADES

PR00
2017/08/16

Standard and or purpose made balustrades according to detail drawings - all to national building regulation and Architects approval.

H40 - WOODEN TRUSS/BEAM (NEW)

PR00
2017/08/16

Purpose made patented wooden roof trusses/beams complete with purlins (All Roof timber to comply with relevant SABS 563, SABS 653, SABS 876, SABS 1089, or SABS 1245) on 114 x 38 wall plate fixed to all with galvanized build in anchors, bricked into wall for at least 5 courses. All installed strictly to manufacturer's details and specifications. Rafter in brickwork (beam fill) to be wrap with 250micron dpc to allow for thermal movement and prevent plaster bonding. All exposed trusses and purlins to be treated with a high quality wood preservative. Colour and type to Architects approval.

H41. MASS CONCRETE FOUNDATION

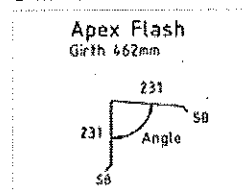
PR00
2017/08/16

Mass concrete foundations – all according to Structural Engineer's detail drawings.

H50. APEX FLASHING (ZINCALUME/COLORBOND)

PR00
2017/08/16

Global Roofing Solutions (011 - 898-2900) <http://www.globalroofs.co.za/>
0,53mm thick COLORBOND™ - Ultra steel AZ200 spelter G550 top coat (Non standard colour to Architect's approval) and backing coat (Non standard colour to Architect's approval), girth 550mm apex flash (Code: FK75), fixed in accordance with manufacturer's specifications. Complete with metal and poly closer without any joints (If unavoidable min. 500mm overlay, complete with sealing strips). Install strictly to manufacturer's specifications.



H51. EXTERNAL PLASTER AND PAINT FINISH (SMOOTH - Plascon)


PR00
2017/08/16

Plaster mix for rough brick/concrete walls, composed of 1 part Surebuild cement (Code: CEM II/B 32.5R) and 6 parts sand, ±12mm thick finished with a wood float to rough walls to receive high quality paint/ wall coating. Surebuild cement is to be manufactured in accordance with SANS 50197-1. All to manufacturer's specifications to cover surface sufficiently. Colours to Architect's approval.

Plascon Wall & All to exterior new cement plaster (NW 100).

Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Wall & All (WAA) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C5 - coastal/marine environment.



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H65. SPECIALIST PIGMENTED AGGREGATE COATING – 1.0mm MARMOTEX

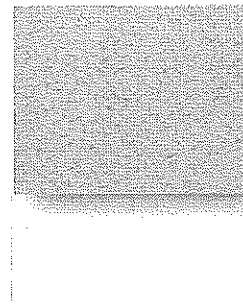
PR00
2017/08/16

MARMORAN COATINGS (086 162 7266) (021 797 4250) <http://marmorancoatings.co.za/>

A decorative and protective coating incorporating marble dust and aggregates bound in a tinted binder resulting in a robust granular appearance.

Plaster mix for rough brick/concrete walls, composed of 1 part Surebuild cement (Code: CEM II/B 32.5R) and 6 parts sand. ±12mm thick finished with a wood float to rough walls to receive high quality paint/ wall coating. Surebuild cement is to be manufactured in accordance with SANS 50197-1. All to manufacturer's specifications to cover surface sufficiently. Adequate time should be allowed for it to cure [confirm a moisture reading of <15%: this may take from 7-21 days, depending on weather conditions] prior to the application.

Prepare substrate by removing all loose and friable matter. Ensure that the surface is clean, dry and Sound. The plaster substrate must conform to a smooth and even finish. Apply 1 even coat of the appropriate Marmoran Textured Primer. Apply Marmoran 1.0mm Marmotex. Seal with Marmoran Universal Glaze Coat. The system must be applied in strict conformance to the manufacturer's instructions. Colours as per the Architect's pre-approved sample.



H83. CLAY PAVERS (ON SAND)

PR00
2017/08/16

Corobrik (031 560 3111) (<http://www.corobrik.co.za>)

Paver PB clay paving brick, size 200 x 98,5 x 50mm thick laid in Herringbone Bond pattern with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months. All by Civil Engineer. Colour and Patterns to Architects approval.



H85. FIBRE CEMENT FASCIA BOARD (300 HIGH)

PR00
2017/08/16

Everite Nutec (011- 9038049) fascia boards size 15mm thick or (10mm thick for curved applications only) x 300mm high with high density plain finish, butt jointed with fascia jointing plate. Install to mild steel trusses with corrosion proof gutter bolts at max 1000mm c/c – all according to details drawing. All to Architect's approval.

SURFACE PREPARATION:

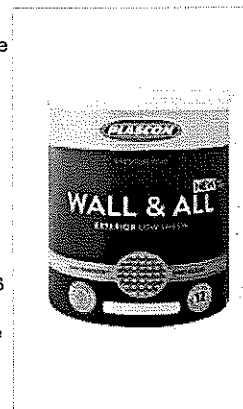
Joints to be taped and finished as per manufacturer's instructions complete with SABISA certificate Ensure surfaces are dry, sound and free from surface contaminants, e.g. loose particles, dust, oil, etc.

- Soft undercured surfaces may be restored to a sound surface with Plascon Bonding Liquid (CVI 14) thinned 20% by volume with Mineral Turpentine (AZH 1). Allow 16 hours to dry, but not more than 48 hours, before painting.
- Make good defects using Plascon Polycell Polyfilla Interior (10 10 02) or Plascon Polycell Polyfilla Fine Crack Filler (10 18 01). Allow at least 30 minutes to dry and sand smooth with 220 grit paper and dust off.

APPLICATION:

Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.

Apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, one coat PLASCON Wall & All Pure Acrylic paint to new fibre cement ceilings and cornices. Colour and type to Architect's approval.



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H89. MILDSTEEL COLUMNS (PAINT)

PR00
2017/08/16

Mild steel columns complete with fixing brackets, all to structural engineers detail drawings.

SURFACE PREPARATION:

• Rust Free

Surfaces must be clean, dry and rust free. Remove surface contaminants using Plascon Metalcare Aquasolv Degreaser (GR1), scrubbing with bristle brush or broom, or using Scotch Brite pads. Rinse thoroughly with tap water while brushing or hydroblast to remove all traces of Plascon Metalcare Aquasolv Degreaser (GR1) to achieve a water break-free surface. Dry surface rapidly to prevent flash rust formation. Cleaned surface must be painted within 4 hours.

• Rusted

After degreasing sand off rust with coarse emery paper or wire brush to ISO 8501 - 01 : 1988 – St 3 to attain a bright metal finish. Remove dust.

• Millscale & Rust

Alternatively, remove millscale and rust by abrasive blast cleaning to ISO 8501 - 01 : 1988 – Sa 2½. Remove dust by vacuum cleaning. Prime within 4 hours.


APPLICATION:

- Apply one coat of Plascon Plascoprime 170 Zinc Phosphate Primer (UC170) to achieve a continuous film. Allow 16 hours to dry.
- Apply two full coats of Plascon Wall & All (WAA) to achieve complete obliteration, allowing 2 hours drying between coats, for a maintenance cycle of 7 years in a C3 - industrial environment. Colour to Architects' approval.

**H104. ALUMINIUM GUTTERS (150 X 100)**

PR00
2017/08/16

Mr. Gutter (011 - 794-8664) Ogee profile pre-coated aluminium seamless gutter, size 150 x 100 x 0,6mm thick in colour including matching rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by bolt fixed external aluminium hangers at 600mm centres with rectangular fluted downpipes, size 100mm diameter x 0,6mm thick in colour fixed to walls with pre-painted downpipe cleats using nail-in anchor fixings. Install strictly to manufacturer's specifications. Colours (Non standard) to Architect's approval.

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H106 WATERPROOFING SYSTEM ON CONCRETE ROOFS /PARKING DECK (TRAFFICABLE)

PR00
2017/08/16

SCREED-TO-FALL : Prepare concrete slab by removing all loose material and laitance by means of scarifying or vacublasting. Apply a mixture of plasterkey (Prostruct 610/601) and Portland cement slurry to prepared surfaces. While still wet, install new screed with falls to stormwater outlets – all to engineer's detail drawings. (Internal corners shall be coved to 50mm radius and external corners to 25mm) All exposed brickwork, where the waterproofing membrane is to be terminated, must be plastered to a smooth, true surface. All to comply to manufacturers minimum specifications and approved by a approved applicator.

Apply two coats of Stonclad Primer wet-on-wet to achieve 300 microns (3,3m² per litre total coverage), using a rubber squeegee. Do not backroll the primer.

If blow holes or voids are detected in the primer they should be skimmed level with Pro-Struct 30/35NS Quickset.

Using a 3,0mm notched rake, evenly apply 342 Deck Protect EC at a spread rate of 1m² / litre to achieve a dry film thickness of 1000 microns. Wearing spiked shoes, spike the material with spiked rollers for a period not exceeding 20 minutes to increase the flow, level and de-aerate the product.

Allow to cure for 3 – 6 hours at 25°C.

Ensure overcoating within 24 hours at 25°C. Should the maximum over-coating interval be exceeded, wipe the surface with a cloth saturated with Thinner #76 immediately before next coat application (note the surface must be slightly tacky), to ensure good inter-coat adhesion.

Ensure the 342 Deck Protect EC is dry and free of contaminants immediately prior to applying next coats.

Using a Sheepskin roller apply 340 Deck Protect BC at a spread rate of 3.3 m² / litre to achieve a film thickness of 0.3mm. Broadcast Stonhard 6221 fine aggregate into wet surface to rejection.

Allow to cure for 2 – 4 hours at 25°C.

After cure de-nib sand to remove all loosely bound particles using a trowel or by lightly grinding. Remove excess sand by sweeping and vacuuming.

Apply 341 Deck Protect UVR onto the clean dry sand blinded surface, using a squeegee to cover the sand and fill any voids. Then backroll using a sheepskin roller to expose the profile of the sand (approximate coverage will be 3 m² per litre, depending on the coarseness of sand surface).

Allow to cure for 3 – 6 hours at 25°C.

Apply road markings within 48 hours.

Should the maximum over-coating interval be exceeded, wipe the surface with a cloth saturated with Thinner #76 immediately before next coat application, to ensure good inter-coat adhesion.

Pre-approve sample panel, Color to Architects' approval.

H109. FIBRE CEMENT BARGE BOARD (300 HIGH)

PR00
2017/08/16

Everite Nutec (011- 9038049) Barge boards size 15mm thick or (10mm thick for curved applications only) x 300mm high with high density plain finish, butt jointed with fascia jointing plate. Install to mild steel trusses with corrosion proof gutter bolts at max 1000mm c/c – all according to details drawing. All to Architect's approval.

SURFACE PREPARATION:

Joints to be taped and finished as per manufacturer's instructions complete with SABISA certificate Ensure surfaces are dry, sound and free from surface contaminants, e.g. loose particles, dust, oil, etc.

- Soft undercured surfaces may be restored to a sound surface with Plascon Bonding Liquid (CVI 14) thinned 20% by volume with Mineral Turpentine (AZH 1). Allow 16 hours to dry, but not more than 48 hours, before painting.

- Make good defects using Plascon Polycell Polyfilla Interior (10 10 02) or Plascon Polycell Polyfilla Fine Crack Filler

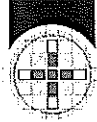
(10 18 01). Allow at least 30 minutes to dry and sand smooth with 220 grit paper and dust off.

APPLICATION:

Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.

Apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, one coat PLASCON Wall & All Pure Acrylic paint to new fibre cement ceilings and cornices. Colour and type to Architect's approval.



<p>ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL</p>		<p>38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za</p>			
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H164. MILDSTEEL PERGOLA/SUNSCREEN

PR00
2017/08/16

Purpose made mild steel pergola/sunscreen complete with fixing brackets (all members to be hot dip galvanized) – all to detail drawings. Surface to be dry, sound and clean. Apply Plascon Galvanized Iron Cleaner (GIC 1) to all bare galvanized areas. Allow to react for 1 minute and rinse off with tap water using bristle brush or Scotch Brite pads to remove all surface contaminants, until surface is water break-free. Prime with one coat of Galvanized Iron Primer (GIP 1) with an overcoating time of 2 hours and finish with two coats of Nuroof Acrylic Roof Paint (TRP) with 1 hour drying time between coats, for a maintenance cycle of 6 years in a C3 - industrial environment. Colour to Architects approval.

H165. EXISTING PAINTED SHEET METAL ROOF SERVICE AND REPAIR

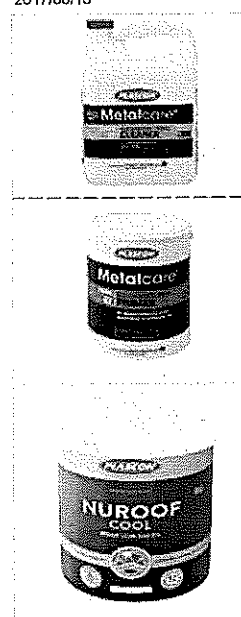
PR00
2017/08/16

Service and Prepare existing roof, ensure surfaces are clean, dry and sound. Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Apply Plascon Galvanized Iron Cleaner (GIC 1) to all bare galvanized areas by brush, broom or spray. Allow to react for 1 minute. Rinse off with tap water using bristle brooms or brushes or Scotch Brite pads to remove all surface contaminants. Check if surface is water break-free. If not, repeat process. Allow to dry completely. Then mechanically wire brush or hand sand rust areas to bright metal. Remove dust.

Prime with one coat Metalcare Galvanised Iron Primer (GIP1) with an over coating time of 24 hours.

Finish with two coats Nuroof Cool Acrylic Roof Paint (TRP) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment. Colour to architects approval.

- Environment : C1 - inland
- Topcoat : Nuroof Cool Acrylic Roof Paint
- Number of coats of topcoat : two coats
- Overcoating time for topcoat : 2.00 hour
- Primer/Base coat : Metalcare Galvanised Iron Primer
- Overcoating time for primer/base coat : 4.00 hour
- Specification document : RD438.



H180. CONCRETE PAVERS (60mm / On Sand)

PR00
2017/08/16

Concor Bondbrick 60mm thick paving blocks laid to herringbone pattern in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months - All by Civil Engineer. Colour and pattern to Architects approval

H189. (75 x 150) RECTANGULAR KERB - straight

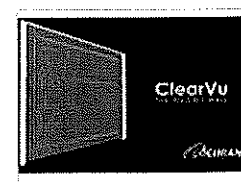
PR00
2017/08/16


75 X 150mm Precast kerb as SABS specifications 927 fig. 12 code KB1031, in approximately 1000mm lengths, bedded, jointed and pointed in 1:3 cement mortar including unreinforced 3:1 sand cement bedding size 75 x 50mm thick under and 150 x 150mm high unreinforced concrete Class B haunching behind, including necessary excavation, installed in straight line. All by Civil Engineer. Colour and pattern to Architects approval.

H229. STANDARD COCHRANE CLEARVU

PR00
2017/08/16

Standard Cochrane ClearVu pressed mesh panel fencing, formed of horizontal and vertical high tensile wires galvanized with Marine Fusion Bond coating with aperture, bolted with vandal resistant bolts and clamping plates to post/ frames, including Locking Recess Mechanism, with sealed end caps with or without bitumen coated 300mm ClearVu underdig or equal approved. All to detail drawings. (Shop drawings to be approved by Architect prior to manufacturing). Colour to Architects approval.



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H237. LANDSCAPING

PR00
2017/08/16

Landscaping to detail design. Samples and layout to be pre approved.

H245. PURPOSE MADE IN SITU CAST CILL

PR00
2017/08/16

Purpose made in situ-cast cill to detail drawing.

H277. SPECIALIST COATING - CALEDONPAST

PR00
2017/08/16

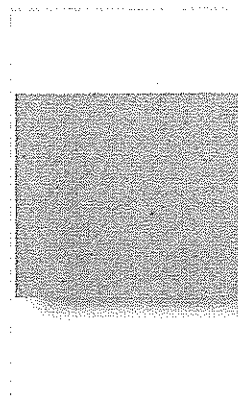
MARMORAN COATINGS (086 162 7266) (021 797 4250)

A low profile decorative and protective resin bonded plaster incorporating a subtle striation with excellent water repellent properties

Plaster mix for rough brick/concrete walls, composed of 1 part Surebuild cement (Code: CEM II/B 32.5R) and 6 parts sand, ±12mm thick finished with a wood float to rough walls to receive high quality paint/ wall coating. Surebuild cement is to be manufactured in accordance with SANS 50197-1. All to manufacturer's specifications to cover surface sufficiently. Adequate time should be allowed for it to cure [confirm a moisture reading of <15%: this may take from 7-21 days, depending on weather conditions] prior to the application.

Prepare substrate by removing all loose and friable matter. Ensure that the surface is clean, dry and Sound. The plaster substrate must conform to a smooth and even finish.

Apply 1 even coat of the appropriate Marmoran Textured Primer. Apply Marmoran Caledonplast. The system must be applied in strict conformance to the manufacturer's instructions. Colours as per the Architect's pre-approved sample.

**H288. POLYUREA-POLYURETHANE HYBRID LINING**

PR00
2017/08/16

Stonchem 441 is a 100% solids polyurea-polyurethane hybrid lining system applied at nominal thickness of 0.75 to 3.0mm, depending on conditions of use. This immersion grade lining provides durable, flexible, waterproof membrane that can withstand significant impact and abrasion. This system can be applied over a broad range of substrates and in varied environmental conditions. Stonchem 441 has very good resistance to wastewater, caustics and moderate concentrations of acids. Surface preparation priming and application all in accordance with the technical data sheet as supplied by the Manufacturer, StonCor Africa (Tel: 011 254 5500). Colour to Architects specifications. Pre-approve sample.

H304. FACE BRICK IN STRETCHER AND HEADER COURSE (Flush and Recessed Joints)

PR00
2017/08/16


Corobrik (031 560 3111) (<http://www.corobrik.co.za>)

Face bricks are to be Imperial FBX 222 x 106 x 73mm face bricks in a combination of stretcher bond and header course, (85mm vertical gauge), with well raked vertical and horizontal joints. With a combination of flush fill and recessed joints with or without cavity as shown. (All according to detail drawings) with tinted Cemcrete mortar, prepare and finish with abe Durasil S – all strictly to manufacturers specifications. Colours and type to ARCHITECTS approval. (Sample wall to be pre approved)

H313. SERVICE EXISTING GUTTERS

PR00
2017/08/16

Clean existing valleys, gutters inspect for damages and replace with new if required to match existing.

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H314 PARAPET WATERPROOFING (PRO-STRUCT 680 & 599)

PR00
2017/08/16

STONCOR (+27 11 254 5500)(www.stoncor.co.za)

PRINCIPAL USES

Flashings, parapet walls, sealing laps and roofing screws on corrugated or galvanised roofs.

INSTRUCTIONS

All surfaces must be clean, sound and dry. Remove all loose materials with a wire brush. Metal surfaces should be free of rust. All brickwork surfaces should be plastered to a true, smooth finish.

PRIME COAT

If surface is porous (e.g. concrete or asbestos) apply a prime coat using 1 part Pro-Struct 680 Acrylic with 1 part clean water.

FIRST COAT

Apply a generous coat of Pro-Struct 680 liquid by brush or roller at approximately 1,0 litre/m². While still wet, the Pro-Struct 599 reinforcing fabric is placed into the first coat and is smoothed out carefully ensuring the fabric is wetted out with no wrinkles.

SATURATION COAT

Immediately after fabric has been placed, a second coat of Pro-Struct 680 Liquid can now be applied at approximately 0,5 litre/m² to fully saturate the membrane from both sides. Allow to touch dry.

TOPCOAT


A final coat of Pro-Struct 680 Liquid can now be applied at approximately 0,3 litre/m².

CLEANING

Clean tools immediately with water.

CAUTION

Always apply during good weather conditions and avoid applying if rains are expected within 12 hours.

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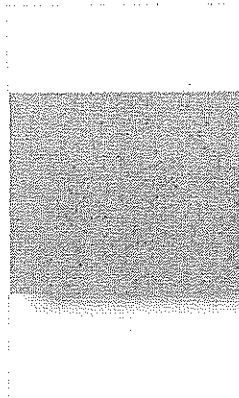
H248. SPECIALIST ACRYLIC PLASTICISED COATING - PERMASUEDE

PR00
2017/08/16

MARMORAN COATINGS (086 162 7266) (021 797 4250) <http://marmorancoatings.co.za/>
A stylish suede decorative resin bonded plaster that offers superior protection to the substrate.

Plaster mix for rough brick/concrete walls, composed of 1 part Surebuild cement (Code: CEM II/B 32.5R) and 6 parts sand, ±12mm thick finished with a wood float to rough walls to receive high quality paint/ wall coating. Surebuild cement is to be manufactured in accordance with SANS 50197-1. All to manufacturer's specifications to cover surface sufficiently. Adequate time should be allowed for it to cure [confirm a moisture reading of <15%: this may take from 7-21 days, depending on weather conditions] prior to the application.

Prepare substrate by removing all loose and friable matter. Ensure that the surface is clean, dry and Sound. The plaster substrate must conform to a smooth and even finish.
Apply 1 even coat of the appropriate Marmoran Textured Primer. Apply Marmoran Permasuede Seal with Marmoran Universal Glaze Coat.
The system must be applied in strict conformance to the manufacturer's instructions.
Colours as per the Architect's pre-approved sample.



H345. SERVICE AND PREPARE EXISTING FIBER-CEMENT ROOF.

PR00
2017/08/16

Surface preparation:

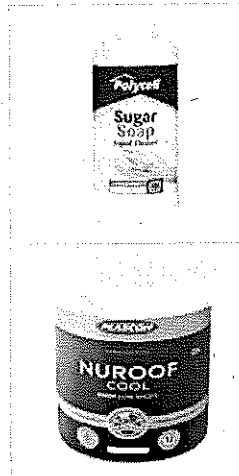
Remove dirt and loose particles. Remove surface contaminants by using Polycell Sugar Soap solution – 500g Polycell Sugar Soap Powder (501703) dissolved in 5 litres water or Polycell Sugar Soap Liquid (501801). For stubborn contaminants use hot water in the above mix (Sugar Soap Powder) and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow drying. Remove fungi and algae by scrubbing with a solution of household bleach (3,5% sodium hypochlorite) - 1 part bleach to 2 parts water by volume. Leave for 1 hour, then brush off with a bristle brush. Rinse thoroughly with tap water to remove all traces of bleach and allow to dry. Ensure that surfaces are dry, sound and clean. Surface to be assessed and the appropriate surface sealant to be applied to achieve a watertight roof.

Moisture content:

Moisture content measured with a Doser Hygrometer (or equivalent) must not exceed the following limits before painting: - cement plaster, brickwork, fibre-cement : BD 2 scale - 8%

Application

Apply one coat of Plascon Bonding Liquid (CVI14) to achieve a continuous film. Allow 4 hours to dry. Apply two coats of Plascon Nuroof Cool allow 1 hour drying time between coats. Overcoating times are at 23°C and 75% relative humidity. Longer times must be allowed under cooler and moist conditions. DO NOT paint during inclement weather and when temperature is below 10°C. Always adhere to manufacturers product data and specification sheet. Colour to architects approval.

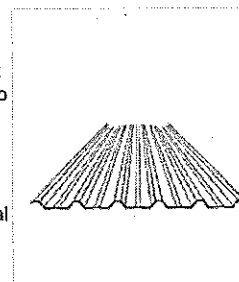


H346. IBR 890 SHEET METAL ROOF COVERING FIXED TO STEEL OR TIMBER PURLINS WITH CHROMADEK COATING. (0.58mm GALVANISED)

PR00
2017/08/16

Global Roofing Solutions (011 - 898-2900) <http://www.globalroofs.co.za/>

0,58mm thick 890mm cover IBR 890 profile Z275 spelter ISQ550 galvanised steel roof sheeting, fixed to timber intermediate purlins at 2600mm centres and eaves and ridge purlins at 2300mm centres using Hex Flange Head + EPDM Seal self drilling Type 17 drill point, No. 12-11 x 85mm long fasteners. Purlin fixed to second, fourth and sixth crest of each sheet and at all crests at sheet ends or fixed to steel intermediate purlins at 2600mm centres and eaves and ridge purlins at 2300mm centres using Hex Flange Head + EPDM Seal self drilling No. 3 drill point, No. 12-14 x 65mm long fasteners. Purlin fixed to second, fourth and sixth crest of each sheet and at all crests at sheet ends, all in accordance with the manufacturer's specifications. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer.



REVISIONS


0

P2-100-L-DOOR PROTECTION SCHEDULE (8)

STATUS	PRE-CONSTRUCTION	PROJECT DATE
PROJECT TITLE	ECDOH	
	FACILITY MAINTENANCE	PROJECT NO:
	OR TAMBO - CLUSTER 1	20080-1-ORT011
	CANZIBE HOSPITAL	REV NO: PR00 Date 14-Aug-17

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HDG

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STAINLESS STEEL DOOR CLADDING

PR00 -
2017-08-14


GENERAL:

- All door protection furniture to be non magnetic 1.6mm stainless steel
- All kick and push plates to be glued and screwed to a unpainted door surface, with an approved adhesive and x6 countersunk screws.
- All edge protectors to be glued and screwed to a unpainted door surface, with an approved adhesive and x5 countersunk screws to either edge.
- Both front, back channel/angle edge protectors to be recessed for the total material thickness.
- All screws to be 2.9 x 13mm stainless steel countersunk self tappers.
- Furniture to be installed with "GENKEM - VAN 497" or equal approved, strictly to manufacturers specifications.
- All cut-outs to be laser cut to avoid sharp ragged edges.
- A sample door to be prepared and approved by architect prior to bulk order.
- This drawing to be read in conjunction with door protection drawings in the 70 range.
- Stainless Steel Grade.

All Stainless steel grade and manufacturing to comply with SASSDA minimum standards and regulations. The manufacturer must be registered with South African Stainless Steel Development Association. (SASSDA).
All internal stainless steel installations - Coastal and Inland to be min. Grade 304.
All external stainless steel installations - Coastal Grade 316 and Inland Grade 304.
Coastal - Closer than 30km from coast line.
Inland - Further than 30km from coast line.

DOOR PROTECTION SETS:


- Set "A" - A-contentious 900 x door thickness x 20mm channel edge protector. PR00 - 2017-08-14
B-contentious 900 x door thickness x 20mm channel edge protector complete with hinge cut out.
D-x2 (door length - door protectors) x 300mm high kick plates
D-x2 (door length - door protectors) x 300mm high bumper plates
- Set "B" - A-x2 contentious 900 x (door thickness/2) x 20mm angle edge protectors. PR00 - 2017-08-14
B-contentious 900 x door thickness x 20mm channel edge protector complete with hinge cut out.
D-x2 (door length - door protectors) x 300mm high kick plates
D-x2 (door length - door protectors) x 300mm high bumper plates
- Set "C" - A-contentious 900 x door thickness x 20mm channel edge protector. PR00 - 2017-08-14
B-contentious 900 x door thickness x 20mm channel edge protector complete with hinge cut out.
D-x2 (door length - door protectors) x 1000mm high bumper plates
- Set "D" - A-contentious 900 x (door thickness) x 20mm channel edge protectors. PR00 - 2017-08-14
B-contentious 900 x door thickness x 20mm channel edge protector complete with hinge cut out.
D-x2 (door length - door protectors) x 1000mm high bumper plates
- Set "E" - D-x1 door length x 300mm high bumper plates PR00 - 2017-08-14
- Set "F" - A-contentious 300 x door thickness x 20mm channel edge protector. PR00 - 2017-08-14
B-contentious 300 x door thickness x 20mm channel edge protector complete with hinge cut out.
D-x2 (door length - door protectors) x 300mm high kick plates

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7. Set "G" - A-x2 continuous s 900 x (door thickness/2) x 20mm bullnosed angle edge protectors. PR00 - 2017-08-14
 B- continuous 900 x door thickness x 20mm channel edge protector complete with hinge cut out.
 D-x2 (door length - door protectors) x 900mm high bumper plates

8. Set "H" - A- continuous 900 x door thickness x 20mm bullnosed channel edge protector. PR00 - 2017-08-14
 B- continuous 900 x door thickness x 20mm channel edge protector complete with hinge cut out.
 D-x2 (door length - door protectors) x 300mm high kick plates
 D-x2 (door length - door protectors) x 300mm high bumper plates

Note: Here with attached specification of an approved manufacturer.

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STAINLESS STEEL

SUPPLIERS OF STAINLESS STEEL MATERIAL AND FITTINGS

NATIONAL DAIRY EQUIPMENT (PTY) LTD Reg. No. 145203/145207 4 HESKETH ROAD, WESTMEAD, PINETOWN, SOUTH AFRICA
P.O. BOX 15273, WESTMEAD, 5508 TELEPHONE: (031) 705444 TELEFAX: (031) 700340

Re: Stainless Steel Door Cladding

As requested we itemise the procedure to follow when making the above stainless steel products for door protection.
There are in total 8 different items of product required.

1. Standard Edge Channel – Front

U channel 1000mm length. Internal width to suite door thickness, sides to measure 20mm. Refer item 'A'. Holes drilled and countersunk, as per item 'C' on both sides of channel.

2. Flush Bolt Channel – Front

All measurements as per 1 above. Allowances for flush bolt to be made at lower end of channel. Refer item 'C'. This channel allows for a 150mm flush bolt. The cut-cut is the total width of the channel, this reduces the risk of cutting fingers when operating the flush bolt.

3. Hinge Channel – Back

Again measurements as per 1 above. Cut-out made to allow for hinge refer item 'B'. This channel makes allowance for a 100x75 butt hinge. The height is critical and careful attention to this detail must be specified by the architect.

4. Plates - Infills

Refer item 'D'. There are two options for plates.

- i) A per the detail in 'D'.
- ii) A Plate to cover the complete area per the edge channels. Refer item 'E'

In both cases the location of the holes is critical. In 4(ii) above the holes must coincide with the holes on the channel.

Please pay careful attention to the 35mm space allowed on the one side of the plate. This is the side which is trimmed on suite the door.


5. Rebate Protection

This comprises of four 19x19mm angles which are fitted to the edges of the rebate to avoid damage. Refer item 'F'. Note the staggered holes. This is important because if the holes line up the screws would cause the edge to become weak.



DIRECTORS: M.J. CAMPBELL B. CORRIE H.D. ANDERSON CA (SA) Managing, V.J. DAVY, L.N. DILLMAN, D.B. FRANK, L. MOODLEY

CAPE TOWN • JOHANNESBURG • PINETOWN • PORT ELIZABETH

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STAINLESS STEEL

SUPPLIERS OF STAINLESS STEEL MATERIAL AND FITTINGS

NATIONAL DAIRY EQUIPMENT (PTY) LTD Reg. No. 1962/031360/07 4145 S4TH ROAD, WESTMEAD, PINETOWN, SOUTH AFRICA
P.O. BOX 15319, WESTMEAD, 3606 TELEPHONE: (031) 763444 TELEFAX: (031) 755490

3. Rebate Protection – Flush Bolt

As per 5 above. One side of the angle on one side of the protectors be cut back the length of the flush bolt. There is no detail for this.

7. Screws

All screws to be 2.9x13mm counter sunk self tappers. In stainless steel.

8. Adhesive

It is recommended that the adhesive "VAN 497" as manufactured by Genkem be used. This product was produced for this application and used on both the NDAH and the Umtata Hospital contracts. The adhesive is applied before the doors are painted

Fitting

- Refer to item 'G'.
 - It is very important that levels and accuracy is kept if the plates are to fit square between the channels.
 - The edge of the door is to be recessed to allow for the channels to fit flush with the edge of the door. This is done by a carpenter. From experience the doors are first hung on the frame, taken down and then trimmed to suite the cladding.
 - The adhesive is applied to both surfaces, per the instructions. The plates / channels are fitted and screwed in place.
 - All holes are to be 3mm in diameter, countersunk.
- All cutouts to be laser cut to avoid sharp ragged edges

NDE has extensive experience in the manufacture and supply of all the above items. If there are more questions which need to be addressed, we will be happy to oblige.

The information details and drawings remain the property of NDE and we would respect your integrity in not passing out this information when requesting quotations




DIRECTORS : M.J. CAMPBELL B. Gwyn H Op Aardkx (CA) (SA) Manager, V.J. DAVIS, L.N. DOLLMAN, D.G. FRANK, I. MOODLEY

CAPE TOWN

JOHANNESBURG

PINETOWN

PORT ELIZABETH

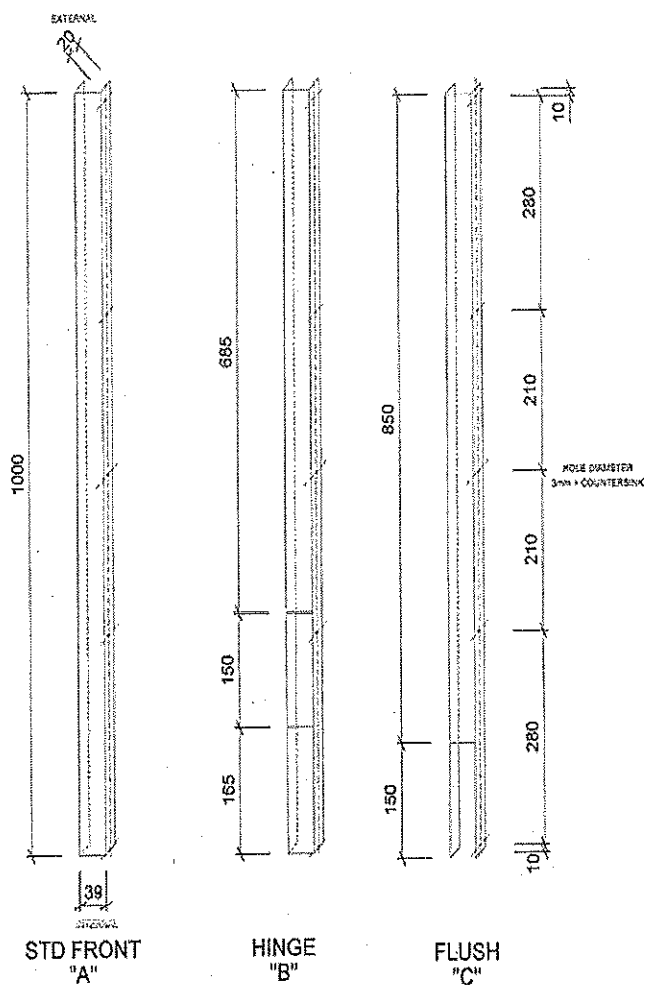
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STAINLESS STEEL


SUPPLIERS OF STAINLESS STEEL MATERIAL AND FITTINGS

NATIONAL DAIRY EQUIPMENT (PTY) LTD. Reg. No. 190201150197, 4 HECKETHORP ROAD, WESTMEAD, PINETOWN, SOUTH AFRICA
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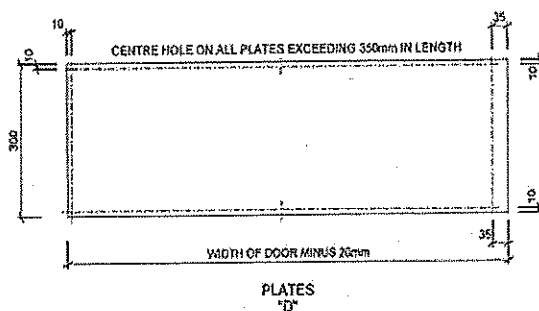
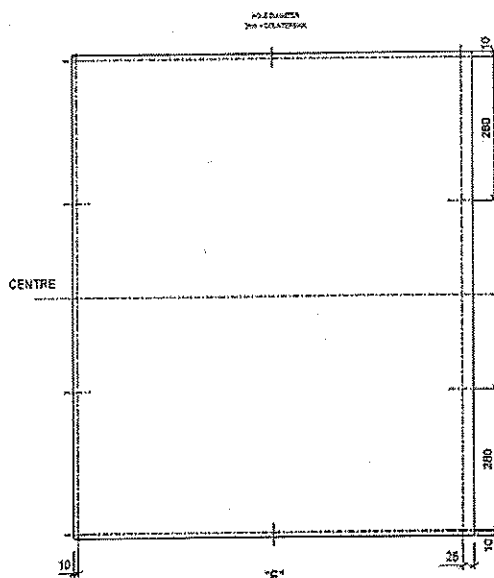
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STAINLESS STEEL


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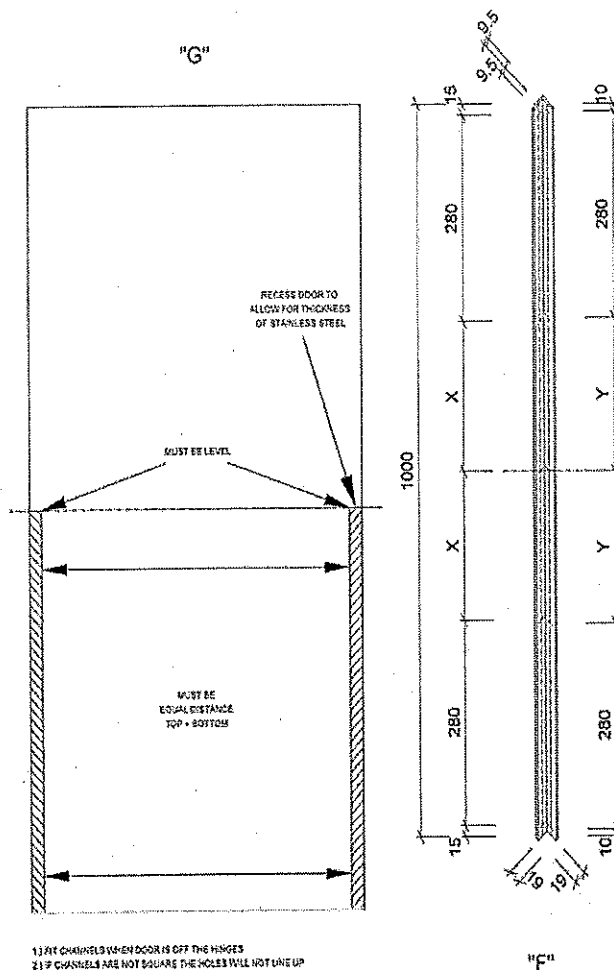
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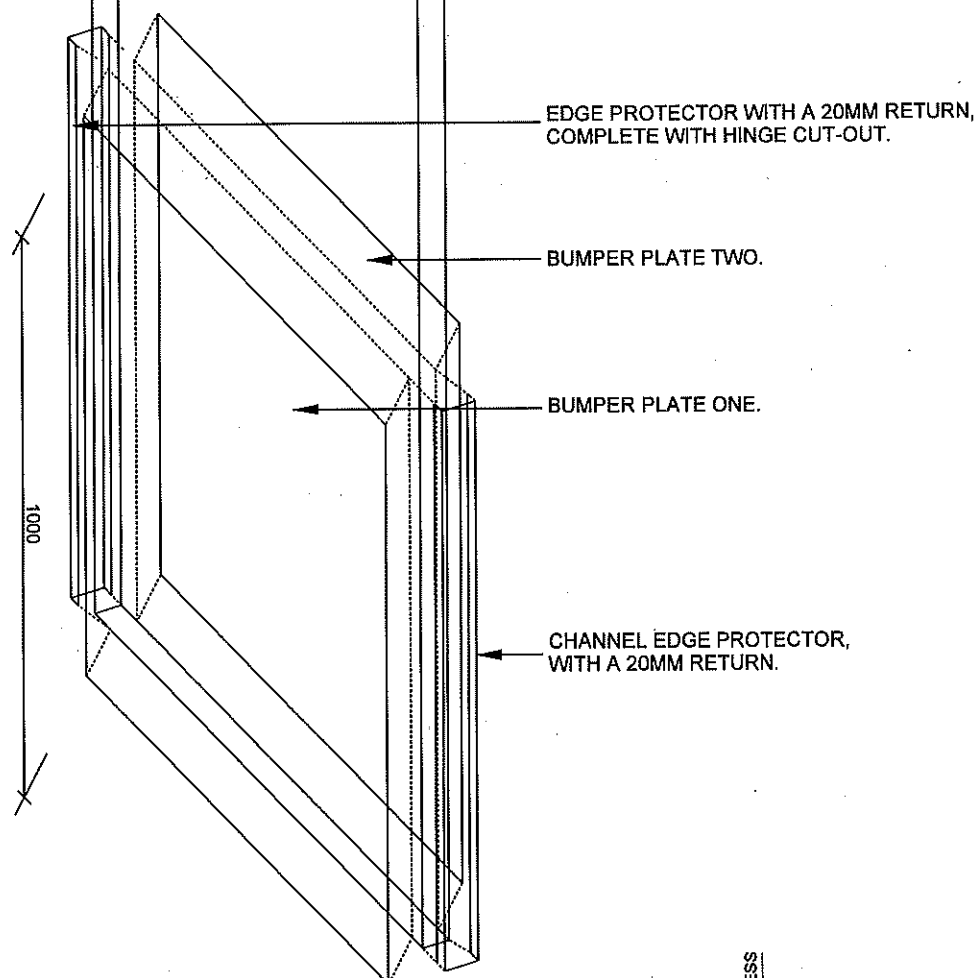
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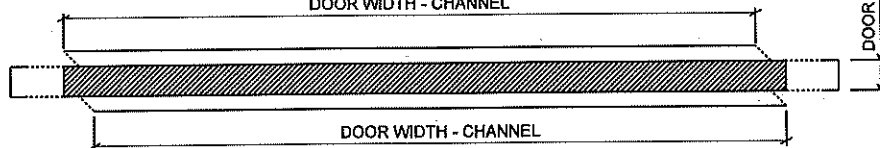


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PROTECTION PLATE TYPE D: (SINGLE AND DOUBLE DOORS LEAF WITHOUT REBATE).
ELEVATION 1:10
DOOR WIDTH - CHANNEL



PROTECTION PLATE TYPE D: (SINGLE AND DOUBLE DOORS LEAF WITHOUT REBATE).
PLAN 1:10

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH THE DOOR PROTECTION PREAMBLES, DRAWING NO. 100-L.

DRAWING DESCRIPTION:

SCALE:

DP-D - DOOR PROTECTION D

NTS

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PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
CANZIBE HOSPITAL"

PROJECT:	20080-1-ORT011	REV. NO	DET. NO
DRAWN:	IKP /	PR00 14-Aug-17	P2-20080-1-ORT011-070-254
DATE:			
ISSUED:	14-Aug-17		

HOSPITAL DESIGN GROUP

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REVISIONS

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P2-100-M-Joinery schedule (15)

STATUS	PRE-CONSTRUCTION	PROJECT DATE
PROJECT TITLE	ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL	PROJECT NO:
		20080-1-ORT011
		REV NO:
		PR00 Date 15-Aug-17

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P1

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH DRAWINGS IN THE 45 RANGE.

PR00
2017/08/08

P2

PG BISON PRODUCT STANDARDS

- 1: FORMICA HPL (High Pressure Laminate) in accordance with SANS ISO 4586:1995
- 2: FORMICA SolidCore HPL (High Pressure Laminate) in accordance with SANS ISO 4586:1995
- 3: FORMICA SolidCore HPL – Writing Surfaces (White Writing Surface and Green Chalkboard) in accordance with CKS 36:2004 and SANS ISO 4586:1995
- 4: DECCON CPL (Continuous Pressed Laminate) in accordance with SANS 1762:1998
- 5: MELAWOOD MFB (MELAMINE Faced Board) in accordance with SANS 1763:1998
- 6: BISONLAM MFB (MELAMINE Faced Board) in accordance with SANS 1763:1998
- 7: SUPALAM MFB (MELAMINE Faced Board) in accordance with SANS 1763:1998
- 8: BISONBORD Particleboard in accordance with SANS EN 312-3:1996
- 9: Bisonbord V 313 (High Moisture Resistant) Particleboard in accordance with SANS EN 312-5:1997
- 10: SUPAWOOD MDF (Medium Density Fibreboard) in accordance with SANS 540-1:1991
- 11: Door / drawer postformed 90 degree profile on two long edges and finished in a minimum 2mm thick PVC edging (colour as per Colour Schedule) on two short edges.
- 12: FORMICA LifeSeal worktop with 32mm Bisonbord HMR substrate, 0.8mm FORMICA HPL – HG/P surface and 0.8mm FORMICA HPL – BK brown backer

PR00
2017/08/08

P3

PG BISON PRODUCT TYPES

- A - Horizontal General Purpose / Standard - HG/S
- B - Horizontal General Purpose / Postform - HG/P
- C - Vertical General Purpose / Standard - VG/S
- D - Vertical General Purpose / Postform - VG/P
- E - Cabinet Liner - CL
- F - Brown Backer - BK

PR00
2017/08/08

P4

1: NATURE OF FURNITURE

Covers fixed furniture, cabinets, cupboards, kitchen cupboards, storage cupboards, pigeon hole cupboards, worktops, vanity tops, workstations, counters, etc.

PR00
2017/08/08

P5

2: GENERAL FURNITURE CONSTRUCTION

Construction is based around modular component design (unless otherwise specified) utilizing component fittings, fastening, fitments and connectors for the purpose of prefabrication and ready for site assembly. All Joinery work to be fixed (built-in) unless otherwise specified.


PR00
2017/08/08

P6

3: GENERAL CARCASS MATERIAL SPECIFICATION

Unless otherwise specified, carcass construction of furniture components to be from:
 Surface: Melawood Melamine Faced Board (MFB) SANS 1763:1998
 Substrate: Bisonbord V313 Moisture Resistant Particleboard SANS EN 312:1997 or Supawood Medium Density Fibreboard (MDF) SANS 540-1:1991
 Backer: BisonLam Melamine Faced Board (MFB) SANS 1763:1998
 Finish in minimum 2mm PVC edging, colour as per Colour Schedule.

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P7

4: GENERAL DOOR MATERIAL SPECIFICATIONPR00
2017/08/08

0.6mm Decon can be used as an alternative, depending on colour, applied same as Formica*

Unless otherwise specified, door and drawer frontals to be from:

Surface: 0.8mm Formica High Pressure Laminate (HPL) SANS ISO 4586:1995

Substrate: 16mm Bisonbord V313 Particleboard SANS EN 312:1997 or Supawood Medium Density Fibreboard (MDF) SANS 540-1:1991

Backer: 0.8mm Formica High Pressure Laminate (HPL) SANS ISO 4586:1995 CL Grade white liner to inner faces. Surface and backers to be bonded under factory controlled conditions.

ALTERNATIVELY *DECCON CPL (Continuous Pressed Laminate) in accordance with SANS 1762:1998 to described thickness to outer faces and DECCON CPL (Continuous Pressed Laminate) in accordance with SANS 1762:1998, white liner to inner faces. See*.

P8

5: GENERAL WORKTOP MATERIAL SPECIFICATIONPR00
2017/08/08

Unless otherwise specified, all worktops fitted to walls or fitted to cupboards and cabinets to be from:
Surface: 0.8mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 to upper faces and with

Substrate: 32mm Bisonbord V313 (High Moisture Resistant) SANS EN 312-5:1997 moisture resistant particleboard with profiled edges.

Backer: FORMICA HPL (High Pressure Laminate) SANS ISO 4586:1995 balancing brown backer to reversed faces.

All worktops butting up against walls to be edged in FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 and exposed edges finished in minimum 3mm PVC edging (colour as per Colour Schedule) to required widths. All worktops against tiles to receive coved tile trims (GENESIS Flexi-head PVC coat SFB 061/01) butting up against worktop and tile surfaces.

Worktops fitted independently to walls generally fixed by means of mild steel wall cleats and support brackets with powder coated finished wall cleat and support brackets.

All worktops, counters and general, to be manufactured in one unit, otherwise joints to be pre-approved by Architect prior to installation.

P9

8: FURNITURE HARDWARE AND IRONMONGERYPR00
2017/08/08

Furniture hardware and ironmongery are described in terms of brand, fabricator type, followed by reference numbers and codes. All factory applied.

P10

9: WALL CUPBOARDS – FIXING TO WALLSPR00
2017/08/08

Cupboards suspended from walls to be back mounted by means of cupboard suspension fittings fitted to cupboard side panels. Cupboards resting on floors to be screw and plugged, mounted to rear walls through cupboard top and bottom rear bearers fitted behind Melamatched – 3mm Supawood colour matched to Melawood in-fill panels.

P11

10: SKIRTING FINISHING TO FLOORSPR00
2017/08/08

Cupboards with skirting finished to front and side of components to be installed to prevent water seepage. Cupboard base structure front panel to be from:

Surface: 0.8 thick Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose.


Standard Skirt panel to be silicone fitted to base structure behind.

Substrate: Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 to be imbedded in a bed of silicone solution.

P12

11: BOARD SURFACINGPR00
2017/08/08

Bisonbord Particleboard in accordance with SANS EN 312-3:1996 or Supawood Medium Density Fibreboard (MDF) in accordance with SANS 540-1:1991 (as described) is to be factory surfaced in surface finishes as described in accordance with board manufacturer's specifications.

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P13 12: APPLIED EDGING

PR00
2017/08/08

All 2mm and 3mm rigid PVC edging (as described) are to be factory applied by means of automated edge banding machinery. Edging colour as per Colour Schedule.

P14 13: MILD STEEL SUPPORT BRACKETS

PR00
2017/08/08

Support brackets type SUP001.

To design and shape (as shown) from minimum 32mm x 32mm x 3.2mm wall thickness mild steel tubing. Weld to joints, pre-drilled and countersunk holed for wall fixings, worktop and counter front fixings, powder coated (colour: WHITE).

Brackets (where shown) to allow for NYLON type pre-fitted adjustable feet.

NOTE: All openings in brackets to be plugged with nylon plugs.

Support brackets type SUP002, SUP003, SUP004, SUP005, SUP006, SUP007, SUP008, SUP009, SUP010, SUP011, SUP012 and SUP013.

To design and shape (as shown) from minimum 25mm x 25mm x 3mm wall thickness mild steel tubing. Weld to joints, pre-drilled and countersunk holed for wall / floor fixings, worktop and counter front fixings, powder coated (colour: WHITE).

Brackets (where shown) to allow for NYLON type pre-fitted adjustable feet.

NOTE: All openings in brackets to be plugged with nylon plugs.

Brackets to be fitted either on wall or floor depending on application.

Maximum centres for support brackets installation :

Counters - 1000mm centres.

General worktops : 700mm centres.

Workstations : 1200mm centres.

P15 14: FURNITURE COLOUR SPECIFICATIONS
(See PG Blson Product Standards List)

PR00
2017/08/08

FORMICA : HPL-HG/S Type FORMICA HPL - CL Type

HPL-HG/P Type FORMICA HPL - BK Type

DECCON : CPL-VG/P Type DECCON CPL - CL Type

DECCON CPL - BK Type

Please note: Deccon available as alternative depending on colour.*

COLOUR : See Colour schedule.

Colour and finish specification to FORMICA HPL (High Pressure Laminate with Loglare finish for tops, and cupboard doors) in accordance with SANS ISO 4586:1995 (HPL-HG/S type and HPL-HG/P type) .

Counters' front panels to be from FORMICA HPL (High Pressure Laminate with Woodtex finish) in accordance with SANS ISO 4586:1995.

P16 15: FLOOR CUPBOARD IN-FILL PANELS (CUPF018)

PR00
2017/08/08

0.6mm Deccon can be used as an alternative, depending on colour, applied same as Formica

In-fill panels to be applied on one or two ends for cupboards in length where wall dimensions are greater than cupboard. In-fill panels to be from:

Surface: 0.8mm Formica High Presseure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose / Postformable

Substrate: 16mm BISONBORD Particleboard in accordance with SANS EN 312-3:1996 or Supawood Medium Density Fibreboard (MDF) in accordance with SANS 540-1:1991.


Backer: 0.8mm Formica High Presseure Laminate (HPL) SANS 4586:1995 white cabinet liner

Fixing method: Secretly fixed.

P17 16: DIMENSIONS

PR00
2017/08/08

All dimensions of joinery work to be checked on site and shop drawings to be presented to Architect for approval prior to any manufacturing of joinery work.

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P18 17: SAMPLE FURNITURE

PR00
2017/08/08

Architect will call upon sample furniture in order to evaluate quality and construction methods of joinery work.

P19 FURNITURE HARDWARE

PR00
2017/08/08

(Unless otherwise specified, hardware and ironmongery to be as specified or similar approved)

P20 1: DOOR HINGES

PR00
2017/08/08

To be Grass Tiomos type hinges for side panel mounting, including trim cups. Install minimum 2 hinges per Leaf up to 1000mm high and maximum 600mm spacing for hinges on doors higher than 1000mm.

GRASS TYPE :
Tiomos 160 degrees wide angle hinge - overlay (C03) - Code F045138503.
Tiomos Eco Cross Plate 3mm with Euro fixing (3 point) - Code F058139738.

P21 2: DRAWER RUNNERS

PR00
2017/08/08

To be full metal sided and rear- fully retractable with 16mm SUPALAM (Colour White) drawer bases.

METABOX TYPE: Full extension (WHITE)
Reference : Sides 500mm deep x 150mm high
(352) 555.79.750

Reference: Rear 150mm high
565.75.745

P22 4: DOOR LOCKS

PR00
2017/08/08

(All doors and drawers to be lockable – keyed alike per room with Master Key per Department)

To be Cyberlock-Short Bolt Travel Left or Right (Finish Nickle)
SDT/GRASS REF: Rim Lock Nickle 22mm (Mastered)
7CL601-22-N

MOUNTING SCREWS: 746190 - 6X19 Screw
(011) 392 5306

P23 6: DRAWER LOCKS (Linked to Master Key System)

PR00
2017/08/08

Drawers to be locked in series of four in height, with Face Fitting Cyberlock Central Locking System for recessing in the Cabinet Side Panel.

SDT/GRASS REF: 700mm Central Locking System/Nickle (4 Drawer)
7CL603-700-N


197480 - Zargen Locking Bracket
MOUNTING SCREWS: 749160 - 6X16 Screw
(011) 392 5306

P24 7: CARCASS CONNECTORS

PR00
2017/08/08

For factory machined ready to assemble purpose.
BLUM TYPE :

Knock-down
Reference : 42/070

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P25 8: SHELF SUPPORTS

PR00
2017/08/08

For factory machined ready to assemble purposes.

BLUM TYPE :	Nylon Housing :	Reference : 40.4001
	Nylon Cover Cap :	Reference : 41.5400
	Finishing Screw :	Reference : 636.1050
	Nylon Bush :	Reference : 41.1100

P26 9: CUPBOARD DOOR CATCHERS

PR00
2017/08/08

BUHEL TYPE :	Elbow catch (Rooster)
	Reference : B1566

P27 10: DOOR STOPS

PR00
2017/08/08

HAFELE TYPE :	Press fit WHITE
	Reference : 356.20.725

P28 12: WORKTOP CONNECTORS


PR00
2017/08/08

HAFELE TYPE :	Suitable for 32mm built-up FORMICA tops
:	Minimum three per 45o full joints
:	Reference : 262.96.211
:	Used in conjunction with LAMELLO
:	joint pieces

P29 16: HANDLES (To all doors and drawers)

PR00
2017/08/08

HAFELE TYPE :	Reference : 129.57.701
	(Colour as per Colour Schedule)
Refer to "Joinery Handle & Lockset Installation Heights" drawing in the 45 Range for handle installation guidelines.	

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FURNITURE CABINET AND CUPBOARD DESCRIPTION

PR00
2017/08/08

(Floor cupboards described excluding worktops)

1. FLOOR CUPBOARD F01 (CUPF001/CUPF001A)

PR00
2017/08/08

CUPF001A is a mirror image of CUPF001

0.6mm Deccon can be used as an alternative, depending on colour, applied same as Formica

Size 450mm x 560mm x 880mm high, comprising base structure from:

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to front face with FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick.

Substrate:

16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard.

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to outer face with 0.8mm Formica HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Hinged door over full width and height from

Surface:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose /

Substrate:

16mm BISONBORD Particleboard SANS EN 312-3:1996 finish on outer face with

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 White cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

2. FLOOR CUPBOARD F02 (CUPF002)

PR00
2017/08/08

0.6mm Deccon can be used as an alternative, depending on colour, applied same as Formica

Size 300mm x 560mm x 880mm high, comprising base structure from:

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to front face with FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick.

Substrate:

16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard.

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to outer face with 0.8mm Formica HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Hinged door over full width and height from

Surface:


0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose / Postformable grade

Substrate:

16mm BISONBORD Particleboard SANS EN 312-3:1996 finish on outer face with

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 White cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

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3. FLOOR CUPBOARD F03 (CUPF003)

PR00
2017/08/08

0.6mm Deccon can be used as an alternative, depending on colour, applied same as Formica

Size 450mm x 560mm x 880mm high, four pull-out drawers equal in height, comprising base structure from:

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to front face with FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick.

Substrate:

16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base and 75mm wide cross bearers to top and rear of cupboard.

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to outer face with 0.8mm Formica HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Drawer front panels from:

Surface:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose / Postformable grade

Substrate:

16mm BISONBORD Particleboard SANS EN 312-3:1996.

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 White cabinet liner to inside.

Drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

4. FLOOR CUPBOARD F04 (CUPF004)

PR00
2017/08/08

0.6mm Deccon can be used as an alternative, depending on colour, applied same as Formica

Size 900mm x 560mm x 880mm high with double doors of equal size, comprising base structure from:

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to front face with FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick. Substrate: 16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard.

Substrate:

16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard.

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to outer face with 0.8mm Formica HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Hinged door over full width and height from:

Surface:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose / Postformable grade.


Substrate:

16mm BISONBORD Particleboard SANS EN 312-3:1996 finish on outer face with

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 White cabinet liner to inside.

Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

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5. FLOOR CUPBOARD F05 (CUPF005)

PR00
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0.6mm Deccon can be used as an alternative, depending on colour, applied same as Formica

Size 1000mm x 560mm x 880mm high with double doors of equal size, comprising base structure from:

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to front face with FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick.

Substrate:

16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard.

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to outer face with 0.8mm Formica HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Hinged door over full width and height from:

Surface:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose / Postformable grade.

Substrate:

16mm BISONBORD Particleboard SANS EN 312-3:1996 finish on outer face with

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 White cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

6. FLOOR CUPBOARD F06 (CUPF006)

PR00
2017/08/08

0.6mm Deccon can be used as an alternative, depending on colour, applied same as Formica

Corner unit, size 900mm x 900mm outer x 880mm high, with double door on right angles to required width, comprising base structure from:

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to front face with FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick.

Substrate:

16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard.

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to outer face with 0.8mm Formica HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Hinged door over full width and height from:

Surface:


0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose / Postformable grade.

Substrate:

16mm BISONBORD Particleboard SANS EN 312-3:1996 finish on outer face with

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 White cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

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7. BROOM CUPBOARD F07 (CUPF007/CUPF007A)

PR00
2017/08/08

CUPF007A is a mirror image of CUPF007

Cupboard size 450mm x 560mm x 2040mm high, comprising base structure, bottom base, sides, fixed upper shelf, top, rear and single hinged door. Construct completely from:

Surface:

1.2mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose.

Substrate:

16mm Bisonbord V313 (High Moisture Resistant) Particleboard in accordance with SANS EN 312-5:1997.

Backer:

1.2mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose. All cupboard components edged in 3mm PVC edging all round, colour as per Colour Schedule. Fabrication cut outs, i.e. hinge pockets, etc. to receive a water repellent solution prior to mounting of components. Skirting 100mm to be finished in 0.8mm thick FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard type. All exposed edges are to be properly sealed with a minimum of 2 coats of exterior grade Polyurethane varnish to prevent moisture ingress. Fix to wall. Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

8. UTILITY CUPBOARD F08 (CUPF008)

PR00
2017/08/15

Cupboard size 900mm x 560mm x 2040mm high, comprising base structure, bottom, base, top, sides and four adjustable shelves, constructed from:

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998

Substrate:

16mm Bisonbord V313 Particleboard SANS EN 312-5:1997

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 edged all round in 2mm PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to rear shelves, to receive additional shelf supports at rear,

One pair double doors to be from :

Surface:

0.8mm Formica High Pressure Laminate (HPL) HG/S Horizontal General Purpose / Standard type

Substrate:

16mm BISONBORD Particleboard SANS EN 312-3:1996,

Backer:

Inner surface 0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 white liner. Skirting 100mm in height to be finished in 0.8mm FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard type.

14. BUILT-IN CUPBOARD F14 (CUPF014)

PR00
2017/08/08

Cupboard size 2300mm x 560mm x 2040mm high, comprising base structure, bottom base, two vertical dividers, five fixed shelves to two single door components on end sides of the cupboard, one fixed shelf to double door component, sides and top constructed from:

Surface:

Bisonlam Melamine Faced Board (MFB) SANS 1763:1998

Substrate:

16mm Bisonbord V313 High Moisture Resistant Particleboard SANS EN 312-5:1997

Backer:

Bisonlam Melamine Faced Board (MFB) SANS 1763:1998, edged all round in 2mm PVC edging, colour as per Colour Schedule. 3mm Melamatched rear in-fill panel, groove mounted to panels.


Doors to be from:

Surface:

0.8mm Formica High Pressure Laminate (HPL) SANS ISO 4586:1995 HG/S Horizontal General Purpose.

Substrate:

16mm Bisonbord Particleboard in accordance with SANS EN 312-3:1996. Skirting 100mm high to be finished in 0.8mm Formica HPL (High Pressure Laminate with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose/Standard type. Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

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18. FLOOR CUPBOARD IN-FILL PANELS F18 (CUPF018)

PR00
2017/08/08

0,6mm Deccon can be used as an alternative, depending on colour, applied same as Formica

In-fill panels to be applied on one or two ends for cupboards in length where wall dimensions are greater than cupboard. In-fill panels to be from:

Surface:

0,8mm Formica High Presseure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose / Postformable

Substrate:

16mm BISONBORD Particleboard in accordance with SANS EN 312-3:1996 or Supawood Medium Density Fibreboard (MDF) in accordance with SANS 540-1:1991.

Backer:

0,8mm Formica High Presseure Laminate (HPL) SANS 4586:1995 white cabinet liner. Fixing method: Secretly fixed.

22. FLOOR CUPBOARD F22 (CUPF022)

PR00
2017/08/08

0,6mm Deccon can be used as an alternative, depending on colour, applied same as Formica

Size 450mm x 560mm x 718mm high, three pull-out drawers equal in height, comprising base structure from:

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to front face with FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0,8mm thick.

Substrate:

16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base and 75mm wide cross bearers to top and rear of cupboard.

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to outer face with 0,8mm Formica HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0,8mm thick. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Metamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Drawer front panels from :

Surface:


0,8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose / Postformable grade.

Substrate:

16mm BISONBORD Particleboard SANS EN 312-3:1996.

Backer:

0,8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 White cabinet liner to inside. Drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule. In a minimum 3mm thick PVC edging, colour as per Colour Schedule.

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19. BUILT-IN CUPBOARD F19 (CUPF019/CUPF019A)
CUPF019A is a mirror image of CUPF019

PR00
2017/08/08

Cupboard size 900mm x 560mm x 2040mm high, comprising base structure, bottom base, single vertical divider, five fixed shelves to single door component, sides and top, constructed from:

Surface:

Bisonlam Melamine Faced Board (MFB) SANS 1763:1998

Substrate:

16mm Bisonbord V313 High Moisture Resistant Particleboard SANS EN 312-5:1997

Backer:

Bisonlam Melamine Faced Board (MFB) SANS 1763:1998, to side panels, bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Finish to front face with

Surface:

0.8mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard.

Substrate:

16mm Bisonbord V313 High Moisture Resistant Particleboard SANS EN 312-5:1997.

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS ISO 4586:1995 CL Grade white liner

Hinged doors over full width and height from:

Surface:

0.8mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard.

Substrate:

16mm Bisonbord Particleboard SANS EN 312-3:1996

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS ISO 4586:1995 CL Grade white liner. Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

33. BUILT-IN CUPBOARD F33 (CUPF033)

PR00
2017/08/08

Cupboard size 1350mm x 560mm x 2040mm high, comprising base structure, bottom base, two vertical dividers, five fixed shelves to left single door component, three fixed shelves to centre single door component, one fixed shelf to double and single door components, sides and top, constructed from:

Surface:

Bisonlam Melamine Faced Board (MFB) SANS 1763:1998

Substrate:

16mm Bisonbord V313 High Moisture Resistant Particleboard SANS EN 312-5:1997.

Backer:

Bisonlam Melamine Faced Board (MFB) SANS 1763:1998, to side panels, bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Finish to front face with

Surface:

0.8mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard.

Substrate:

16mm Bisonbord V313 High Moisture Resistant Particleboard SANS EN 312-5:1997.

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS ISO 4586:1995 CL Grade white liner

Hinged doors over full width and height from:

Surface:


0.8mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard.

Substrate:

16mm Bisonbord Particleboard SANS EN 312-3:1996

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS ISO 4586:1995 CL Grade white liner. Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

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34. UTILITY CUPBOARD F34 (CUPF034)

PR00
2017/08/08

Cupboard size 450mm x 560mm x 2040mm high, comprising base structure, bottom base, sides, top and four fixed shelves in height, constructed from

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998

Substrate:

16mm Bisonbord V313 Moisture Resistant Particle Board SANS EN 312-5:1997

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 edged all round in 2mm PVC edging, colour as per Colour Schedule. 3mm melamatched WHITE rear in-fill panel, groove mounted to rear shelves, to receive additional shelf supports at rear.

Hinged door over full width and height from :

Surface:

0.8mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard.

Substrate:

16mm Bisonbord Particleboard SANS EN 312-3:1996.

Backer:

Inner surface 0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 white liner. Skirting 100mm in height to be finished in 0.8mm Formica HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard type.

73. FLOOR CUPBOARD F79 (CUPF079)

PR00
2017/08/08

0.6mm Deccan can be used as an alternative, depending on colour, applied same as Formica

Size 800mm x 560mm x 880mm high with double doors of equal size, comprising base structure from:

Surface:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to front face with FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick. Substrate: 16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard.

Substrate:

16mm Bisonbord V313 (High Moisture Resistant) Particleboard SANS EN 312-5:1997 bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard.

Backer:

Bisonlam Melamine Faced Board (MFB) in accordance with SANS 1763:1998 to side panels, Finish to outer face with 0.8mm Formica HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard 0.8mm thick. Edge all round with minimum 2mm thick PVC edging, colour as per Colour Schedule. 3mm Melamatched WHITE rear in-fill panel, groove mounted to panels, 100mm high recessed skirting.

Hinged doors over full width and height from:

Surface:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 HG/P Horizontal General Purpose / Postformable grade.

Substrate:

16mm BISONBORD Particleboard SANS EN 312-3:1996 finish on outer face with

Backer:

0.8mm Formica High Pressure Laminate (HPL) SANS 4586:1995 White cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

457. WALL FITTED WORK TOPS (TOP021)

PR00
2017/08/08

Wall fitted tops to specified lengths, size through section 550mm deep with 40mm high resin fitted side and rear splash (Top054) and 200mm high down stand. Side splash back to be fitted where required when a top is fitted at a corner. Construct from

Surface:


12mm Solid Surfacing Material.

Substrate:

16mm Supawood Medium Density Fibreboard (MDF) SANS 540-1:1991

Incorporate minimum 6mm radius corners in lengths. Unit with open ends to incorporate down stand/return to width of top. Units to exhibit seamless joints throughout. Vanity units to be laid on minimum 16mm SUPAWOOD MDF (Medium Density Fibreboard) in accordance with SANS 540-1:1991.

Support brackets to vanity underside depth to be from 32mm x 32mm x 3.2mm thick mild steel tubing. Powder coat finish (type S1). Support brackets fitted not to exceed 500mm centers.

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80. FLOOR CUPBOARD F85 (CUPF085)

PR00
2017/08/08

Cupboard size 600mm x 560mm x 880mm high, comprising base structure, bottom base and sides.
Construct completely from:

Surface:
1.2mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose.

Substrate:
16mm Bisonbord V313 (High Moisture Resistant) Particleboard in accordance with SANS EN 312-5:1997.

Backer:
1.2mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose. All cupboard components edged in 3mm PVC edging all round, colour as per Colour Schedule. Fabrication cut outs, i.e. hinge pockets, etc. to receive a water repellent solution prior to mounting of components. Skirting 100mm to be finished in 0.8mm thick FORMICA HPL (High Pressure Laminate with Loglare finish) in accordance with SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard type. All exposed edges are to be properly sealed with a minimum of 2 coats of exterior grade Polyurethane varnish to prevent moisture ingress. Fix to wall.

303. WALL CUPBOARD W03 (CUPW003)

PR00
2017/08/08

Size 900mm x 300mm x 720mm high, comprising bottom panel, side panel, fixed mid-shelf and top panel from:

Surface:
Bisonlam Melamine Faced Board (MFB) SANS 1763:1998
edged all round in 1mm PVC edging, colour as per Colour Schedule.

Substrate:
16mm Bisonbord Particleboard SANS EN 312-3:1996

Backer:
Bisonlam Melamine Faced Board (MFB) SANS 1763:1998
3mm Melamatched WHITE rear in-fill panel, groove mounted to panels.
Hinged door over full width and height from
Door / drawer edges finished all round in a minimum 3mm thick PVC edging, colour as per Colour Schedule.

Surface:
0.8mm Formica High Pressure Laminate (HPL with Loglare finish) SANS ISO 4586:1995 HG/S Horizontal General Purpose / Standard.

Substrate:
16mm Bisonbord Particleboard in accordance with SANS EN 312-3:1996.

Backer:
0.8mm Formica High Pressure Laminate (HPL) SANS ISO 4586:1995 CL Grade white liner

450. FLOOR CUPBOARD TOPS (TOP001-004)

PR00
2017/08/08

Surface:
Formica LifeSeal worktop with 0.8mm Formica HPL – HG/P surface with Loglare finish with 100mm high fitted rear and side splash back (Top053). Side splash back to be fitted where required when a top is fitted at a corner.

Substrate:
32mm Bisonbord HMR


Backer:
0.8mm FORMICA HPL-BK brown backer
worktops are to be purpose-made to required length x 600mm wide with Squareline front profile.
A splash back of 100mm high to required lengths with

Surface:
0.8mm Formica HPL-HG/P surface Loglare finish

Substrate:
32mm Bisonbord HMR

Backer:
0.8mm Formica HPL-BK backer, SANS ISO 4586:1995,
having a 90 degrees profiled top profile, and is to be supplied and installed separately.
All exposed ends of worktops edged in 3mm PVC edging (colour as per Colour Schedule) to full profile and edges butting up against walls and sinks. Finish joint with soft fill between sink and worktop.

Placement of sinks to be applied by means of imbedding sink flange areas in an approved sealant.
Sink installation by means of mechanical fixing as per sink supplier specifications. Where applicable, top to be supported against wall by means of 38 x 38 x 2mm thick mild steel angle iron cleat finished with high quality mild steel paint system, colour to match wall finish.

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465. FLOOR CUPBOARD TOPS (TOP034-037)

PR00
2017/08/08

High quality GRANITE material worktop, size length x 600mm wide x 30mm thick (colour as per Colour Schedule).

Cut-outs to worktops to accommodate for stainless steel sinks to size. Sink installation by means of mechanical fixing as per sink supplier specifications.

475. FLOOR CUPBOARD TOPS (TOP057-060)

PR00
2017/08/08

Surface:

Formica LifeSeal worktop with 0.8mm Formica HPL – HG/P surface with Loglare finish.

Substrate:

32mm Bisonbord HMR

Backer:

0.8mm FORMICA HPL–BK brown backer

worktops are to be purpose-made to required length x 600mm wide with Squareline front profile.

All exposed ends of worktops edged in 3mm PVC edging (colour as per Colour Schedule) to full profile and edges butting up against walls and sinks. Finish joint with soft fill between sink and worktop.

Placement of sinks to be applied by means of imbedding sink flange areas in an approved sealant.


Sink installation by means of mechanical fixing as per sink supplier specifications. Where applicable, top to be supported against wall by means of 38 x 38 x 2mm thick mild steel angle iron cleat finished with high quality mild steel paint system, colour to match wall finish.


REVISIONS			
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100-N-BUMPER RAILS

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<p>ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 CANZIBE HOSPITAL</p>		<p>38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za</p>  <p>HDG</p>			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
18-Jul-17	100-N-BUMPER RAILS	R00	20080-1-ORT011	1	

P1

NOTE : THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH DRAWINGS IN THE 40 RANGE.

P2

(BUM007, BUM007A & BUM008) BUMPER RAIL NOTES:

- 1) All Bumper rails to be fixed to wall with patented HILTI nails at max. 600mm c/c.
- 2) All ends should be closed with matching solid surface block.
- 3) Only the external corners should be provided with a rounded edge.
- 4) All start and end must be fixed max. 50 mm from the end of bumper rail.
- 5) All bed head bumper rails lengths to match length off bed head trunking.
- 6) Bumper rail fixing must be to the centre of bumper rail.
- 7) Top of bumper rail must be installed at 900mm above FFL.
- 8) A 10mm gap are to be provided at all expansion joints in wall.
- 9) See attached details for typical installation details.
- 10) Pre-approve samples prior to any bulk manufacturing

(BUM002&002A) STAINLESS STEEL CORNER PROTECTOR - 1200MM HIGH

Purpose made 75 x 75 1.6mm thick stainless steel corner protector. Installed from skirting level to 1200mm above FF Level (length to suit skirting Level), bedded into paintable soft fill, plug and screw with countersunk stainless steel screws - all according to detail drawing (control wall angle on plan). (Detail - DT7)

(BUM006&006A) STAINLESS STEEL CORNER PROTECTOR - 700MM HIGH

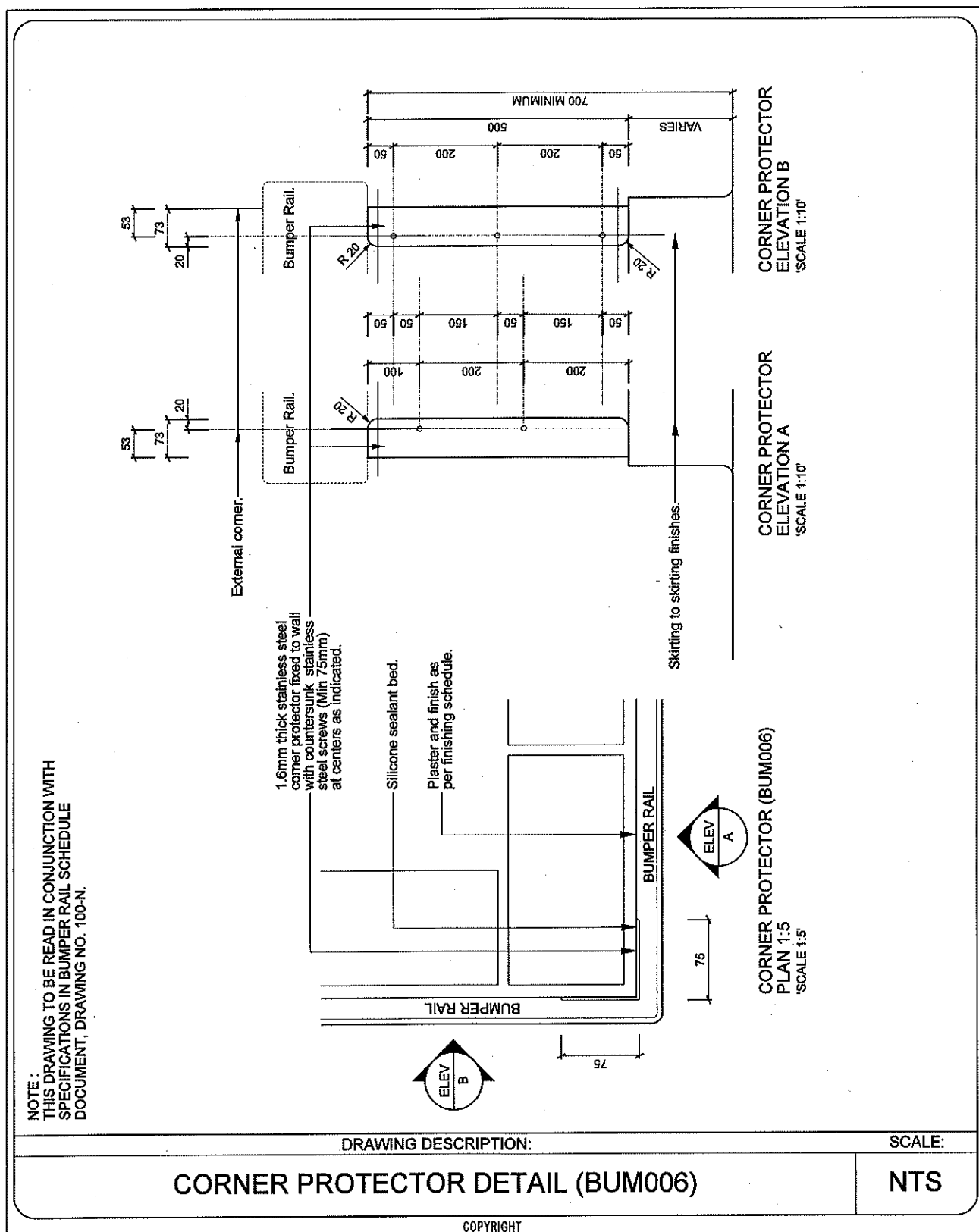
Purpose made 75 x 75 1.6mm thick stainless steel corner protector. Installed from skirting level to 700mm above FF Level (length to suit skirting Level), bedded into paintable soft fill, plug and screw with countersunk stainless steel screws - all according to detail drawing (control wall angle on plan). (Detail - DT8)

(BUM007 / BUM007A) BUMPER RAIL SPECIFICATION:

200mm x 28mm Thick Bumper rails manufactured with 12mm Solid Surfacing Material to front face and all edge adhered to Single face super with superwood substrate with polyurethane adhesive. Top edge to be 90° round nose from Solid Surfacing Material. End caps to be from 12mm Solid Surfacing Material finished to appropriate detail to suit position of bumper rail. Bumper rails supplied in specific lengths to be specified by main Contractor, up to a maximum length of 2750mm.(BUM007 Detail -DT9 & 10)(BUM007A Detail - DT34 & 10)

Fixing:

All Bumper rails to be fixed to wall with patented HILTI nails at max. 600mm c/c.



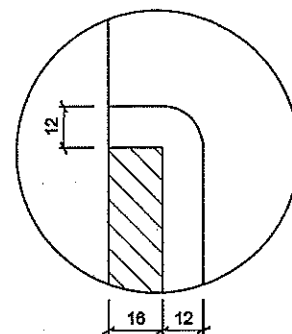
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"ECDOH FACILITY MAINTENANCE OR TAMBO - CLUSTER 1 ST ELIZABETH HOSPITAL"			
PROJECT:	20080-1-ORT008	REV. NO	DET. NO
DRAWN:	IKP /	R00 25-Oct-17	20080-1-ORT008-040-DT08
DATE:			
ISSUED:	25-Oct-17		

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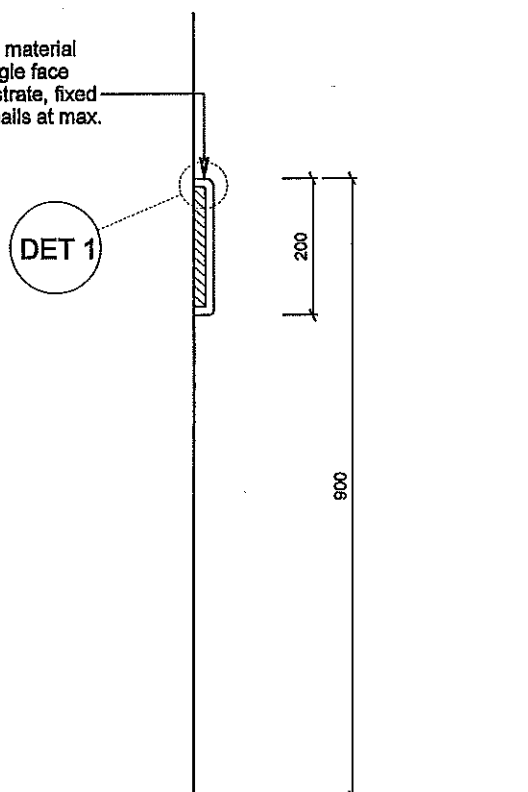


NOTE:
THIS DRAWING TO BE READ IN CONJUNCTION WITH
SPECIFICATIONS IN BUMPER RAIL SCHEDULE
DOCUMENT, DRAWING NO. 100-N.



DETAIL 1
'SCALE NTS'

12mm thick solid surfacing material
Bumper rail adhered to single face
super with Supawood substrate, fixed
to wall with patented Hilti nails at max.
600mm c/c.



TYPICAL DETAIL FOR INSTALLATION
(BUM007 & BUM008)
'SCALE 1:10'

DRAWING DESCRIPTION:

SCALE:

BUMPER RAIL INSTALLATION DETAILS

1:10

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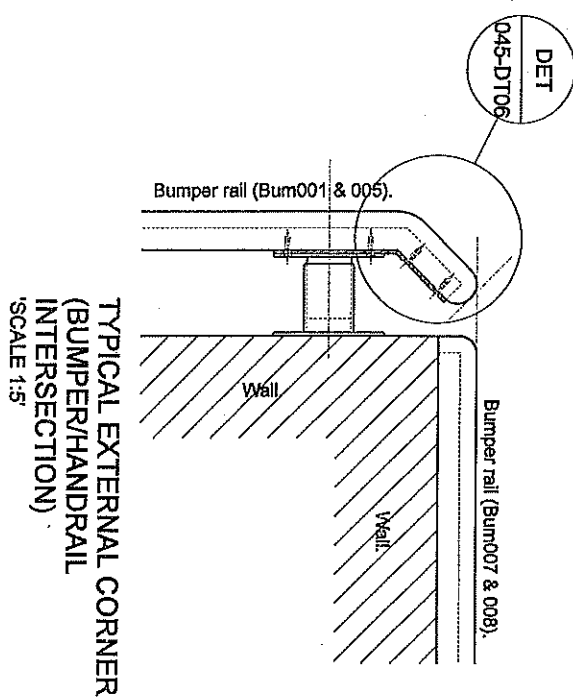
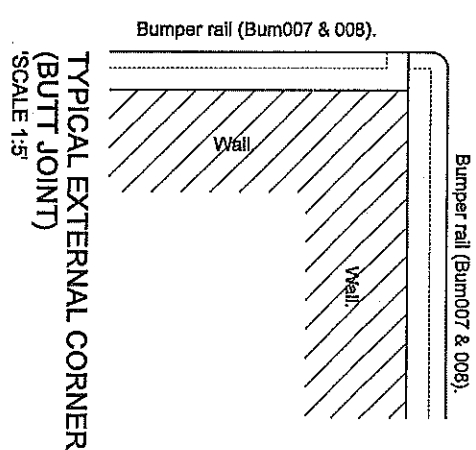
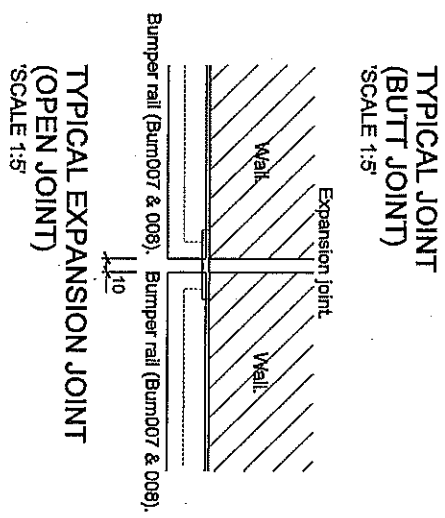
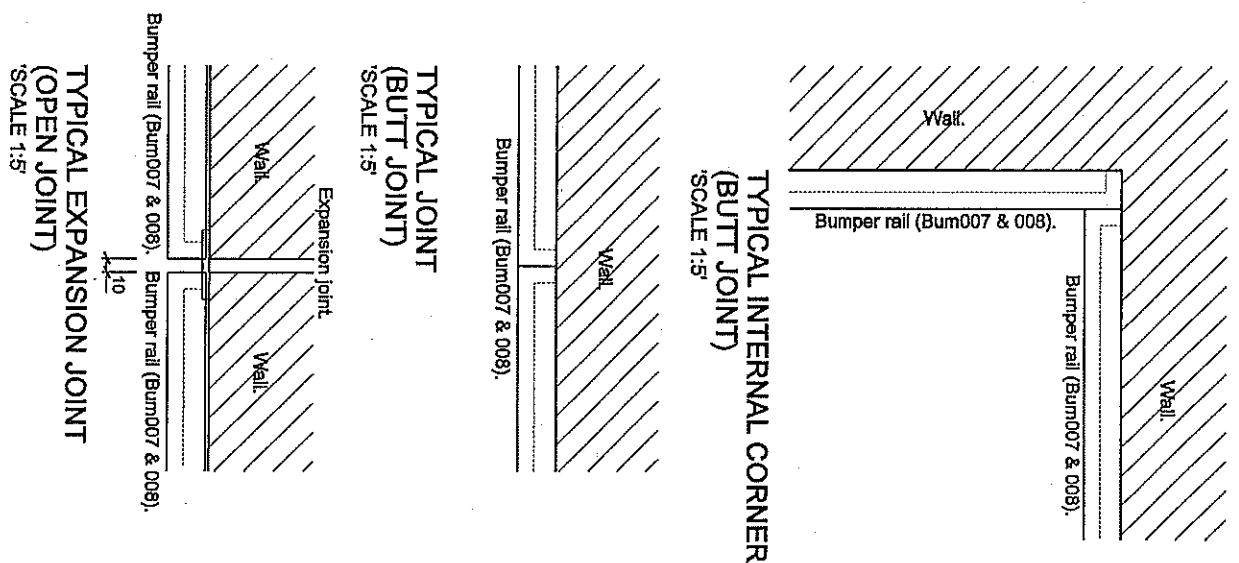
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PROJECT:	20080-1-ORT008	REV. NO	DET. NO
DRAWN:	IKP /	R00 25-Oct-17	20080-1-ORT008-040-DT09
DATE:			
ISSUED:	25-Oct-17		

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NOTE:
THIS DRAWING TO BE READ IN CONJUNCTION WITH
SPECIFICATIONS IN BUMPER RAIL SCHEDULE
DOCUMENT, DRAWING NO. 100-N

DRAWING DESCRIPTION:

SCALE:

BUMPER RAIL INSTALLATION DETAILS

1:5

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PROJECT TITLE

"ECDOH
FACILITY MAINTENANCE
OR TAMBO - CLUSTER 1
ST ELIZABETH HOSPITAL"

PROJECT:	20080-1-ORT008	REV. NO	DET. NO
DRAWN:	IKP /	R00 25-Oct-17	20080-1-ORT008-040-DT10
DATE:			
ISSUED:	25-Oct-17		

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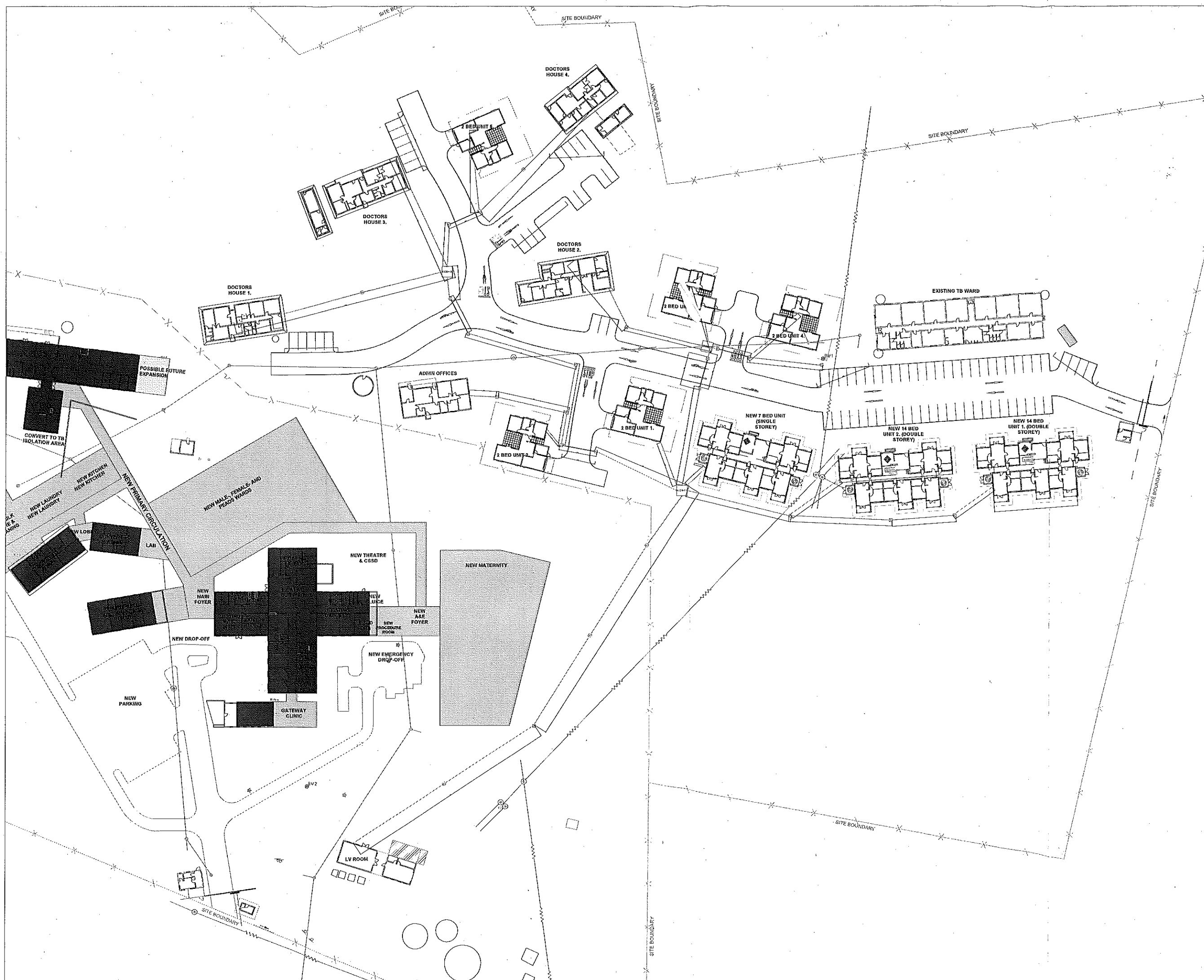


HDG

CANZIBE PHASE 2 DRAWING REGISTER

<u>Drawing Number</u>	<u>Description</u>	<u>Size</u>	<u>Rev</u>
CAR17E/1724/CZ/100E	Electrical Reticulation Layout	A1	0
CAR17E/1724/CZ/101E	Street Lighting Layout	A1	0
CAR17E/1724/CZ/200E	Typical 2 Bedroom Unit – Lighting	A1	0
CAR17E/1724/CZ/201E	Typical 2 Bedroom Unit - Power	A1	0
CAR17E/1724/CZ/202E	Typical 7 Bedroom Unit - Lighting	A1	0
CAR17E/1724/CZ/203E	Typical 7 Bedroom Unit - Power	A1	0
CAR17E/1724/CZ/204E	Typical 14 Bedroom Unit – Ground Floor Lighting	A1	0
CAR17E/1724/CZ/205E	Typical 14 Bedroom Unit – Ground Floor Power	A1	0
CAR17E/1724/CZ/206E	Typical 14 Bedroom Unit – First Floor Lighting	A1	0
CAR17E/1724/CZ/207E	Typical 14 Bedroom Unit – First Floor Power	A1	0
CAR17E/1724/CZ/208E	Doctors House 1 - Lighting	A1	0
CAR17E/1724/CZ/209E	Doctors House 1 - Power	A1	0
CAR17E/1724/CZ/2010E	Doctors House 2 - Lighting	A1	0
CAR17E/1724/CZ/2011E	Doctors House 2 - Power	A1	0
CAR17E/1724/CZ/2012E	Doctors House 3 - Lighting	A1	0
CAR17E/1724/CZ/2013E	Doctors House 3 - Power	A1	0
CAR17E/1724/CZ/2014E	Doctors House 4 - Lighting	A1	0
CAR17E/1724/CZ/2015E	Doctors House 4 - Power	A1	0
CAR17E/1724/CZ/300E	Main LV Panel	A4	0
CAR17E/1724/CZ/301E	Kiosk 1. SLD	A4	0
CAR17E/1724/CZ/302E	Kiosk 2. SLD	A4	0
CAR17E/1724/CZ/303E	Kiosk 3. SLD	A4	0

<u>Drawing Number</u>	<u>Description</u>	<u>Size</u>	<u>Rev</u>
CAR17E/1724/CZ/304E	SMDB - Typical 14 Unit Block	A4	0
CAR17E/1724/CZ/305E	SMDB - Typical 7 Unit Block	A4	0
CAR17E/1724/CZ/306E	SMDB - Typical 2 Unit Block	A4	0
CAR17E/1724/CZ/307E	SDB - Typical Unit	A4	0
CAR17E/1724/CZ/308E	SDB - Typical House	A4	0
CAR17E/1724/CZ/309E	SDB - Guard House	A4	0



LEGEND

SYMBOL	DESCRIPTION
	110mm PVC SLEEVE
	800x800x600mm MANHOLE WITH HD COVER

REVISIONS:

No	Date	By	Description

CLIENT: EASTERN CAPE DEPARTMENT OF HEALTH



ARCHITECT

HOSPITAL DESIGN GROUP
Reg No 2003/067580/07

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ELECTRICAL ENGINEERS



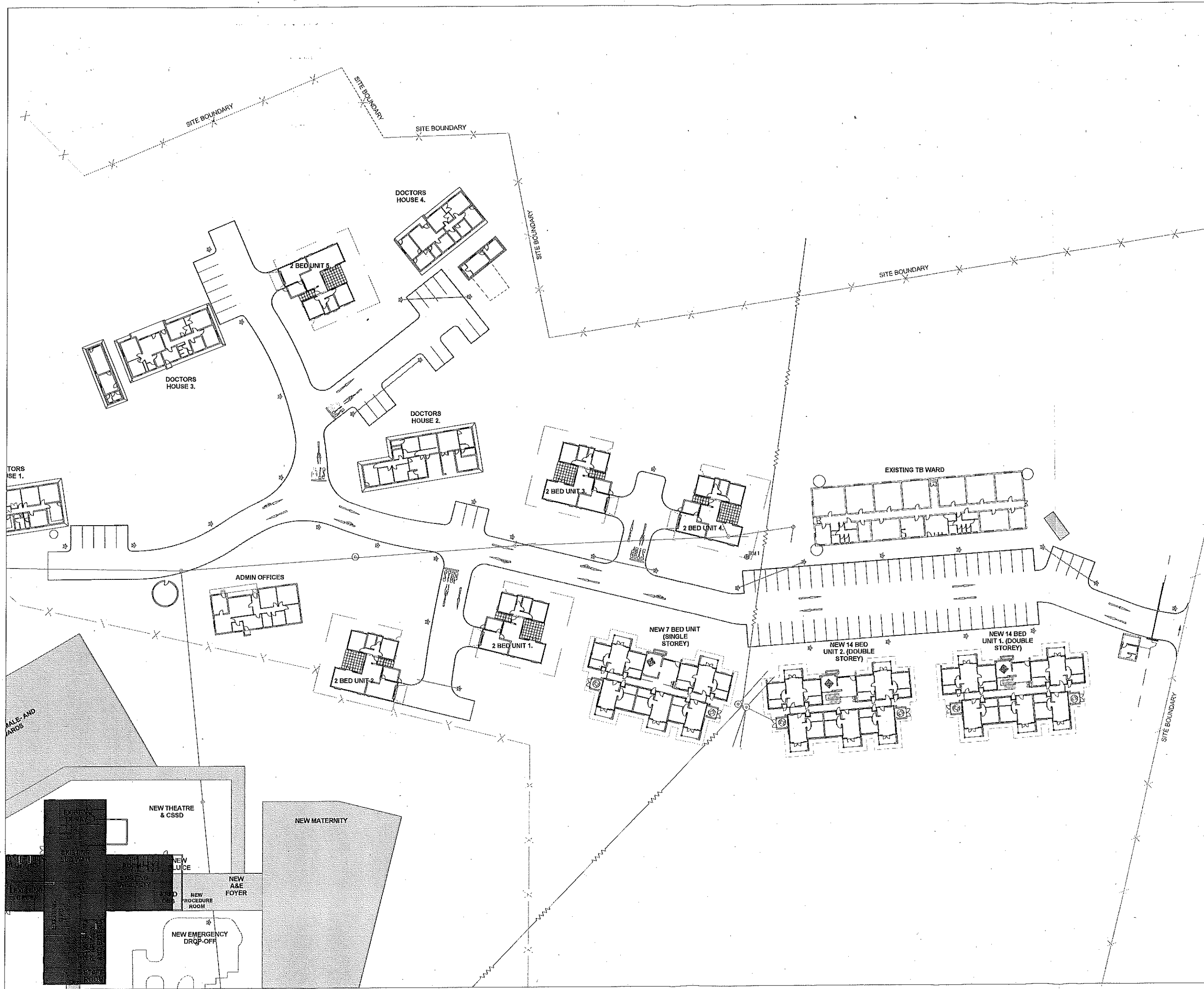
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**CANZIBE
HOSPITAL
LIVING
QUARTERS**

DRAWING TITLE:

**ELECTRICAL RETICULATION
LAYOUT**

DESIGNED: S.P.	DRAWN: H.B.	APPROVED: L.N.N.
SCALE: N.T.S.	COPYRIGHT RESERVED	DATE: SEP 2017
DRAWING FILE NAME:	REV: 0	
SHEET NO: CAR17E/1724/CZ/101E	SIZE: A3	

PROJECT STATUS:
TENDER



LEGEND

POST TOP LIGHTS WITH 3.6m POLE

60mm PVC SLEEVE

REVISIONS:

No.	Date	By:	Description

CLIENT:

EASTERN CAPE DEPARTMENT OF HEALTH

Province of the
EASTERN CAPE
HEALTH

ARCHITECT

HOSPITAL DESIGN GROUP

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CESA

Electrical Engineering & Services

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LEWISBURG
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FAX: 051 320500
E-MAIL: info@cesa.co.za

PROJECT TITLE:

CANZIBE
HOSPITAL
LIVING
QUARTERS

DRAWING TITLE:

STREET LIGHTING
LAYOUT

DESIGNED:	DRAWN:	APPROVED:
S.P.	H.B.	L.N.N

SCALE	COPYRIGHT RESERVED	DATE
N.T.S	SEP 2017	REV:

DRAWING FILE NAME	REV:
ELEC LAYOUT	0

SHEET NO.	SIZE
CAR17E/1724/CZ/102E	A3

PROJECT STATUS:

TENDER

[illegible]

Province of the
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 Caribbean Free Trade Zone
 1000 Highway 100, Suite 100
 San Juan, P.R. 00901
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 FAX: (787) 209-0001
 WWW: www.carifro.com

CECSA
 Caribbean Export Council
 1000 Highway 100, Suite 100
 San Juan, P.R. 00901
 TEL: (787) 209-0000
 FAX: (787) 209-0001
 WWW: www.cecsa.com

DRAWING TITLE:

**TYPICAL
2 BEDROOM UNIT
LIGHTING LAYOUT**

PROJECT STATUS: **TENDER**

VERSION 1.0

[illegible]

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PROJECT TITLE:

CANZIBE HOSPITAL
LIVING QUARTERS

DESIGNED: S.P.	DRAWN: H.B.	APPROVED: L.M.N
SCALE: N.T.S	COPYRIGHT RESERVED	DATE: SEP 2017
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SHEET NO:		SIZE
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PROJECT STATUS: **TENDER**

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CARIFRO
 COMMERCIAL & ECONOMIC DEVELOPMENT
 FROM AFRICA TO AFRICA

10000 WILSON STREET
 NEWTON, MA 02459-1001
 TEL: (617) 552-9900
 FAX: (617) 552-9900
 WWW.CARIFRO.ORG

DRAWING TITLE: **TYPICAL
14 BEDROOM UNIT
GROUND FLOOR
LIGHTING LAYOUT**

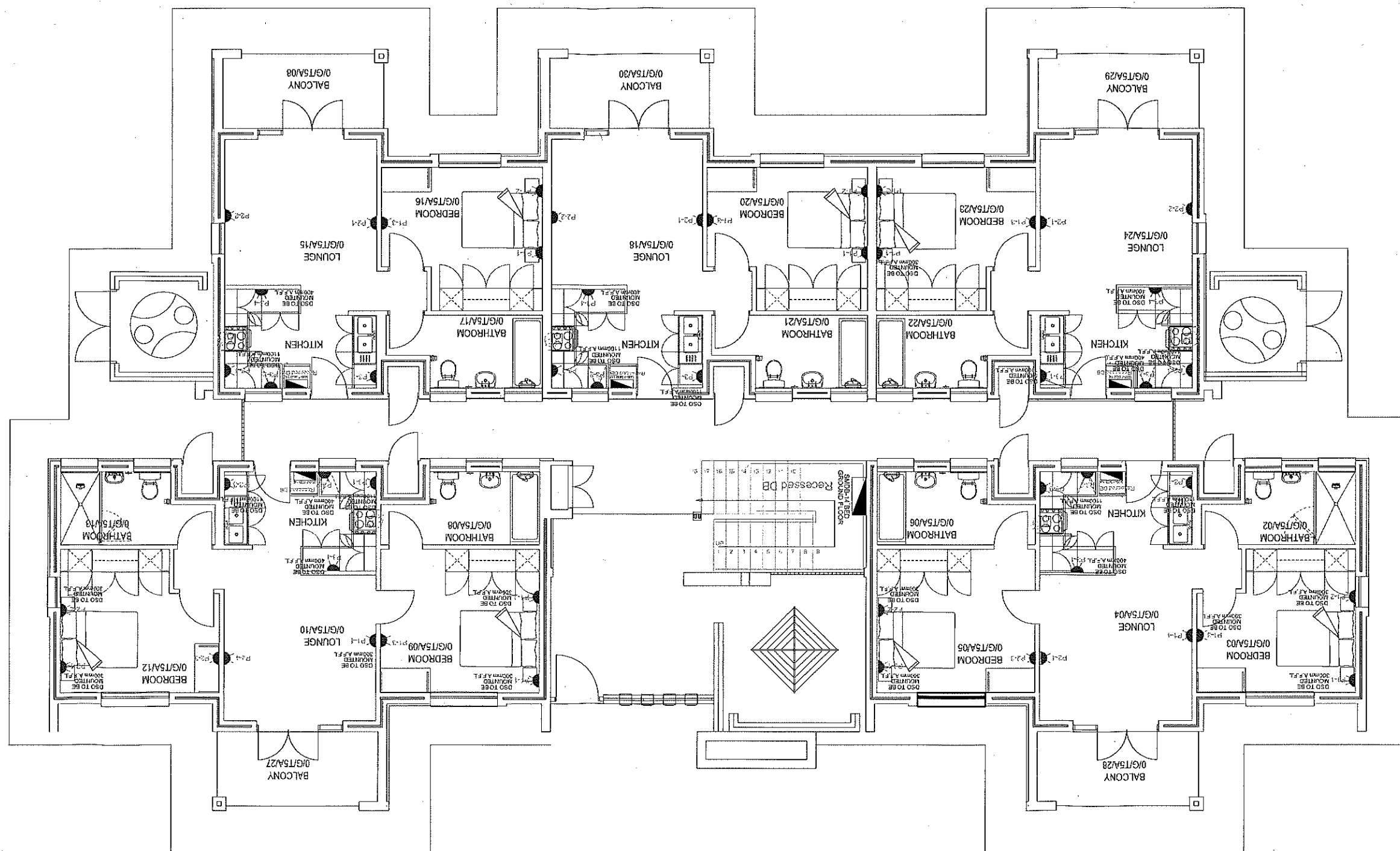
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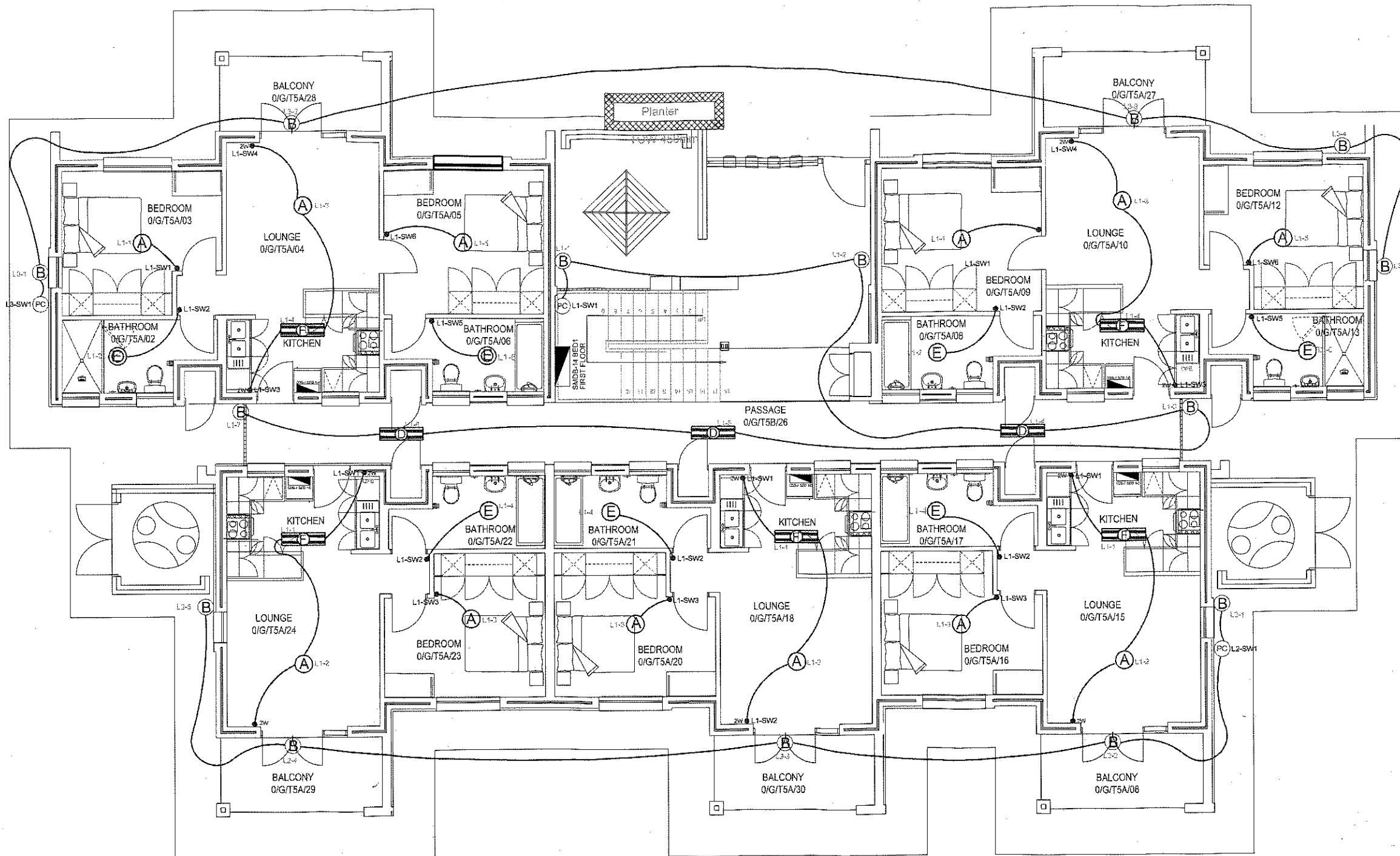
VERSION 1.0

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Provinces of the
EASTERN CAPE
HEALTH

PROJECT TITLE:

VERSION 1.0





LEGEND	
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	100mm DIAMETER PIPE
	50mm DIAMETER PIPE
	25mm DIAMETER PIPE
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	6.3mm DIAMETER PIPE
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[illegible]

Province of the
EASTERN CAPE
HEALTH

HOSPITAL DESIGN GROUP
Reg.No 2003/007669/07

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P.O.Box 752, HARRISMITH, 9880



HDG

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 SUITE 200
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 FAX: 305.372.0001
 WWW.CARIFRO.ORG

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 FAX: 305.372.0001
 WWW.CEA.ORG

CEA
 CARIBBEAN EXPORT ASSOCIATION
 1000 W. 10TH STREET
 SUITE 200
 MIAMI BEACH, FL 33139
 TEL: 305.372.0000
 FAX: 305.372.0001
 WWW.CEA.ORG

DRAWING TITLE:

**TYPICAL
14 BEDROOM UNIT
FIRST FLOOR
POWER LAYOUT**

PROJECT STATUS: **TENDER**

DESIGNED	S.P.	H.B.	L.N.N
DRAWN	COPYRIGHT RESERVED	DATE	SEP 2017
DRAWING FILE NAME:			
LIGHTING LAYOUT		SHEET NO.	
CAR17E/1724/CZ/208E		A3	SIZE
PROJECT STATUS TENDER			

DOCTORS HOUSE 1
LIGHTING LAYOUT


DRAWING TITLE:

<p>QUARTERS LIVING HOSPITAL CANZIBE</p>	<p>PROJECT TITLE</p>
<p>100% COMPLETED</p>	<p>100% COMPLETED</p>
<p>100% COMPLETED</p>	<p>100% COMPLETED</p>
<p>100% COMPLETED</p>	<p>100% COMPLETED</p>
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<p>100% COMPLETED</p>	<p>100% COMPLETED</p>
<p>100% COMPLETED</p>	<p>100% COMPLETED</p>

ELECTRICAL ENGINEERS

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P.O. Box 162, HARRISBURG, 9580

HDG

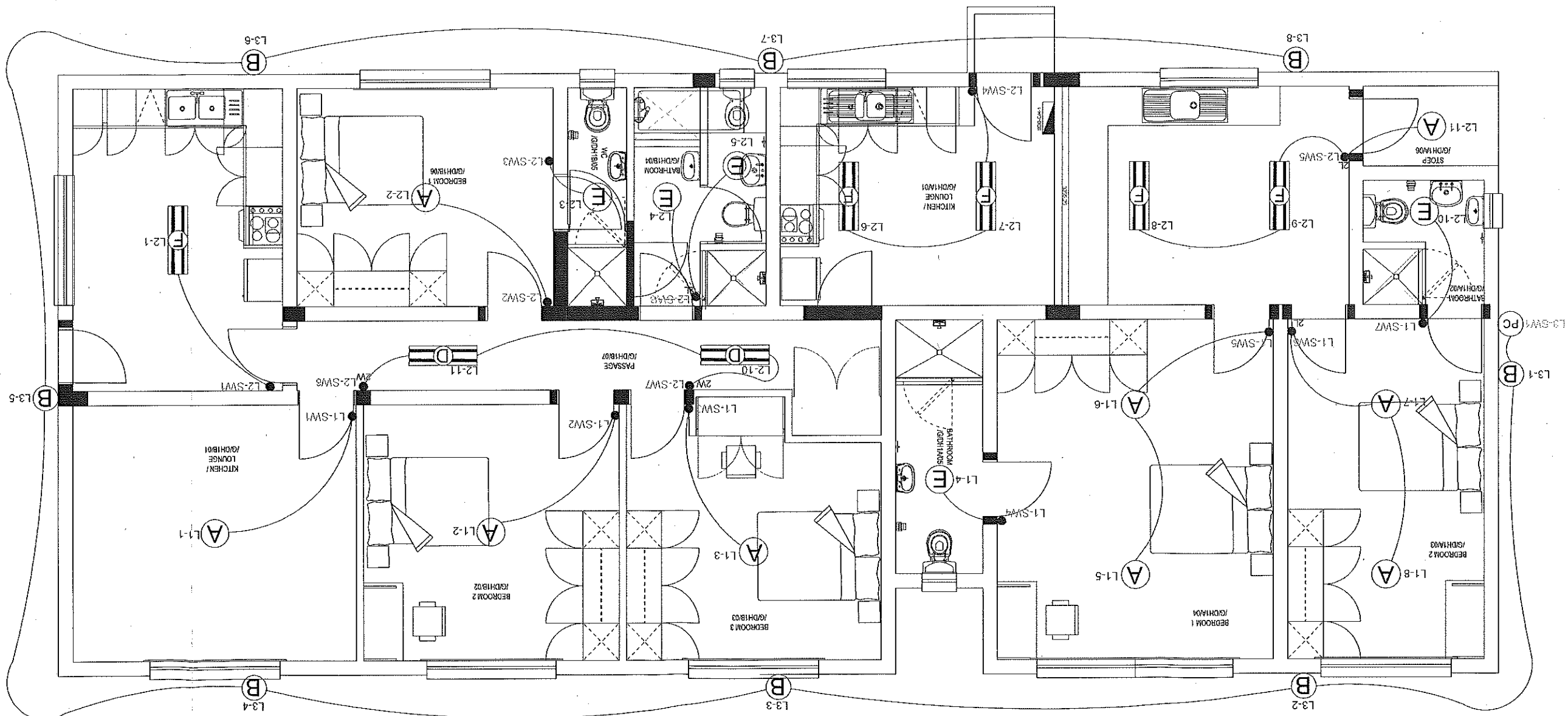


ARCHITECT

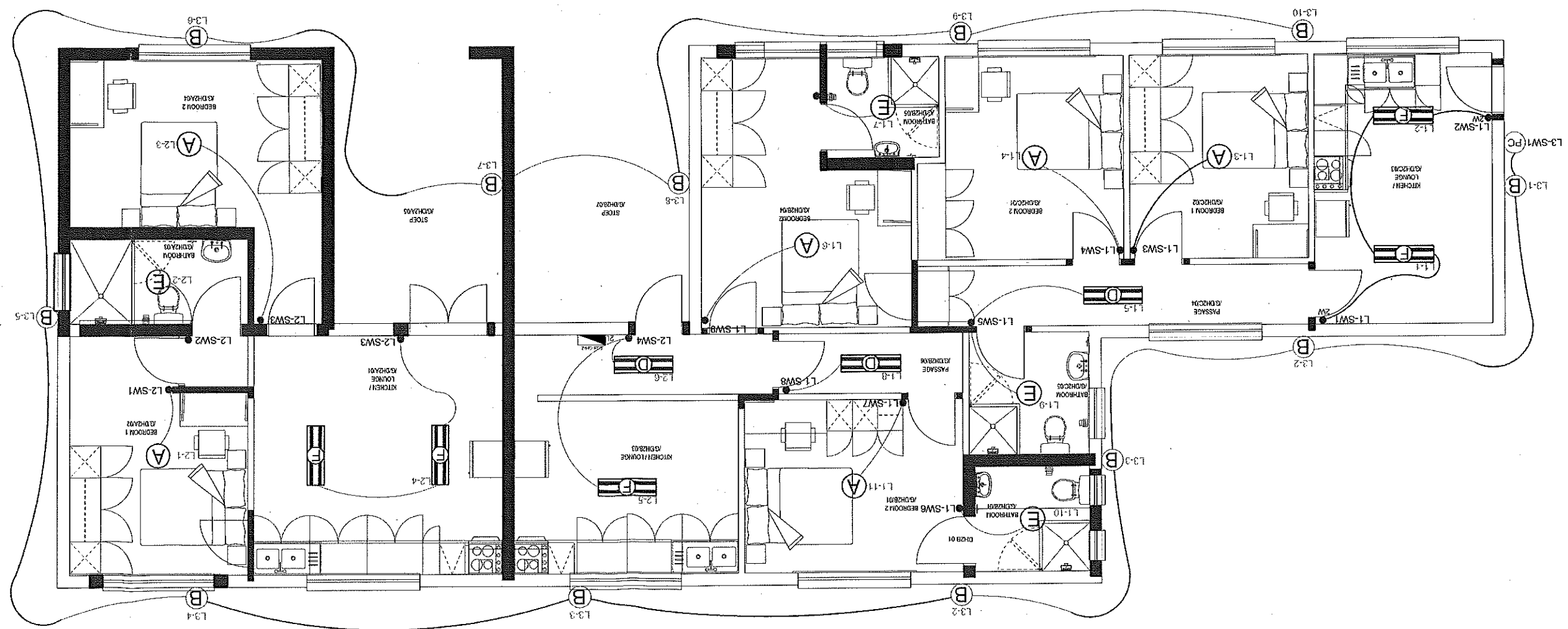
CLIENT: EASTERN CAPE DEPARTMENT OF HEALTH

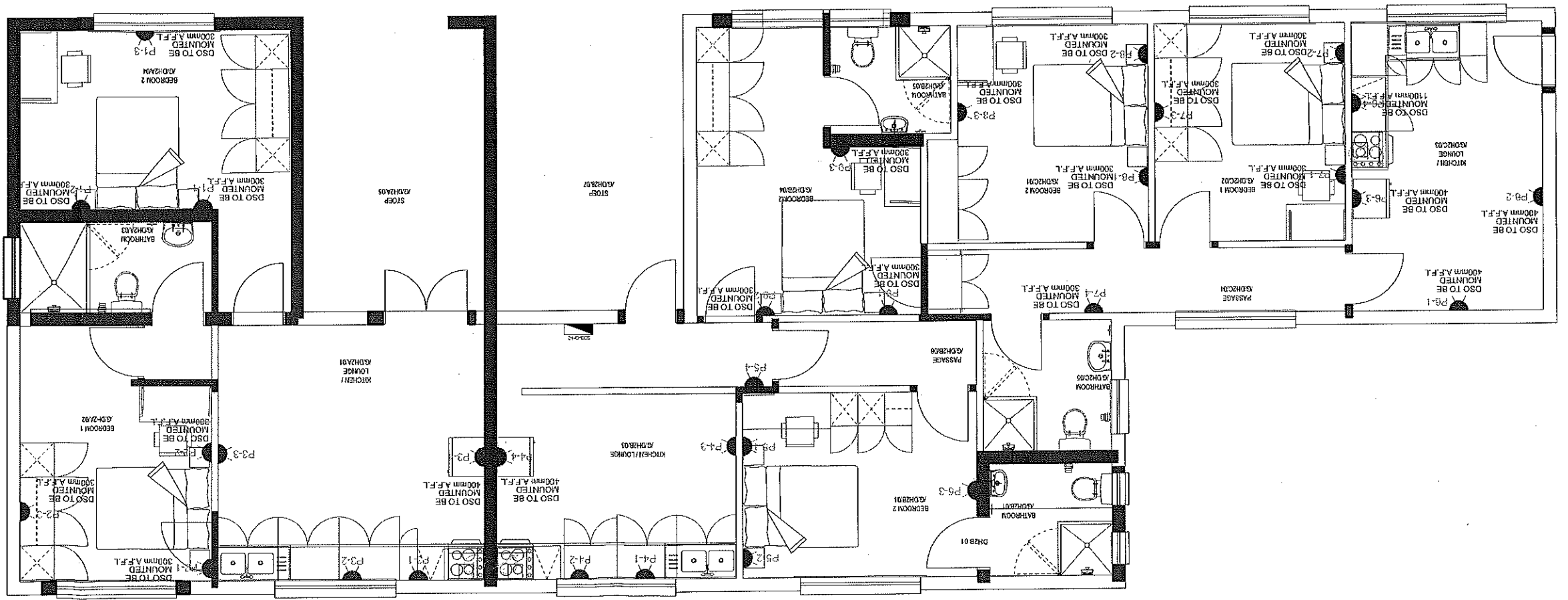
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REVISIONS:

[illegible]

[illegible]





PROJECT TITLE:
CANZIBE
HOSPITAL
LIVING
QUARTERS

DESIGNED:
S.P.
H.B.
L.N.N.

DATE:
SEP 2017

REV:
0

PROJECT NO:
CAR17E/1724/CZ/211E

SIZE:
A3

PROJECT STATUS:
TENDER

DRAWING TITLE:
DOCTORS HOUSE 2
POWER LAYOUT

DESIGNED:
S.P.
H.B.
L.N.N.

DATE:
SEP 2017

REV:
0

PROJECT NO:
CAR17E/1724/CZ/211E

SIZE:
A3

PROJECT STATUS:
TENDER

CLIENT:
EASTERN CAPE DEPARTMENT OF HEALTH

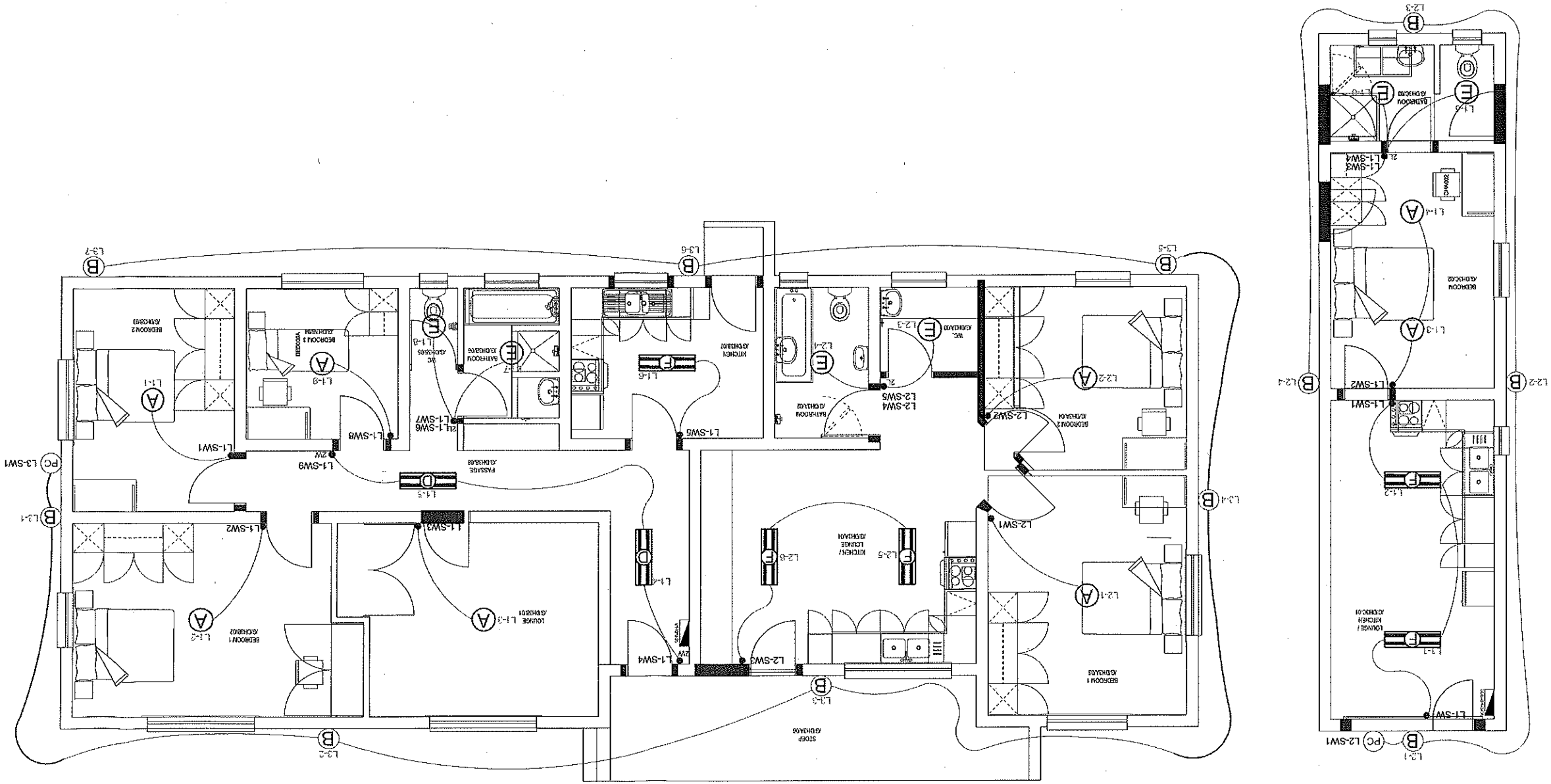
ARCHITECT:
HOSPITAL DESIGN GROUP

ELECTRICAL ENGINEERS:
H.D.G.

LEGEND

REVISIONS:

NO. DATE BY DESCRIPTION





ARCHITECT

HOSPITAL DESIGN GROUP
Reg.No 2003/007889/07

Tel:(058) 6223942
Fax:(058) 8230844,
E-mail: hdg@hdg.co.za

P.O.Box 752, HARRISSMITH, 9680


HDG

ELECTRICAL ENGINEERS



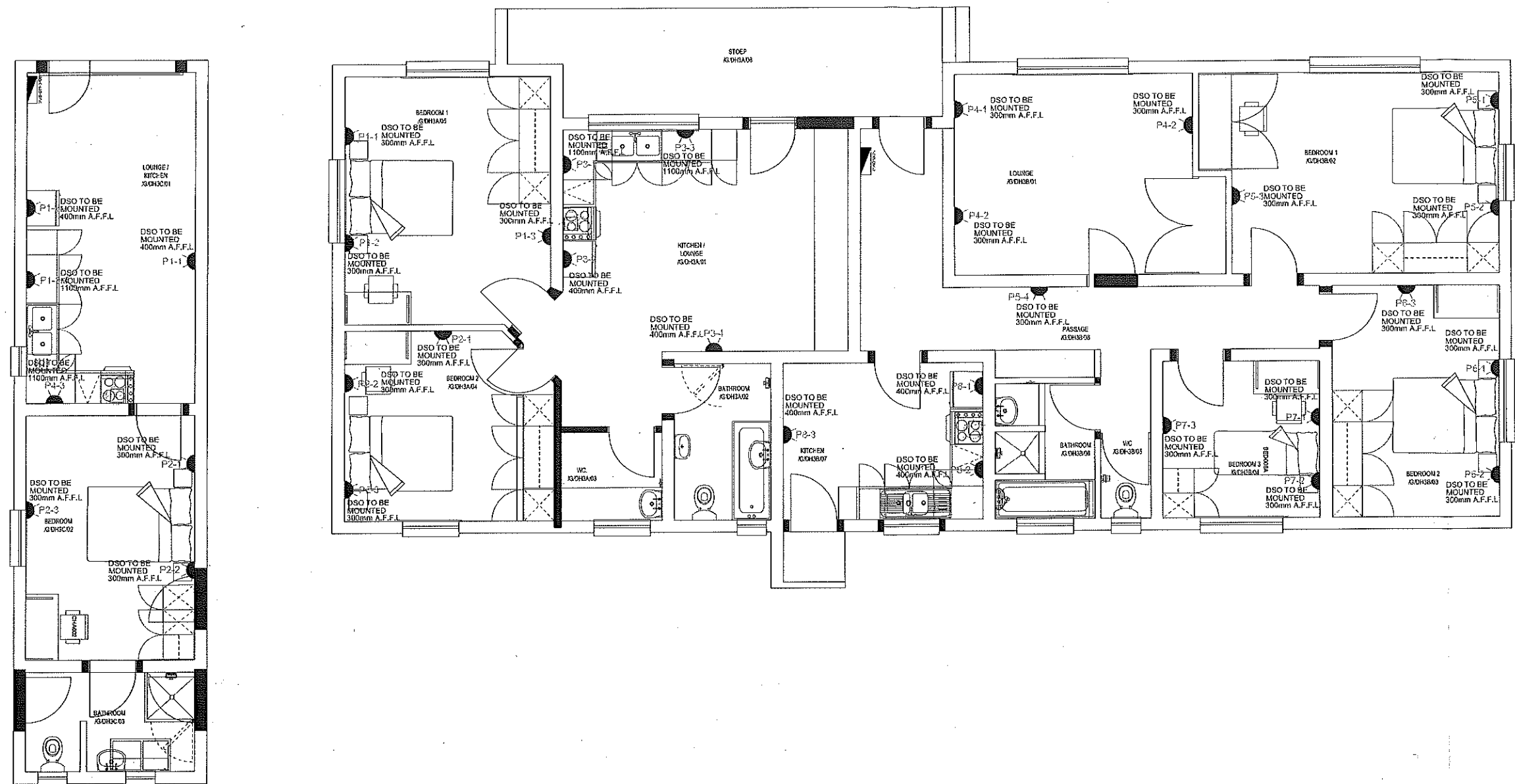
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HOSPITAL
LIVING
QUARTERS

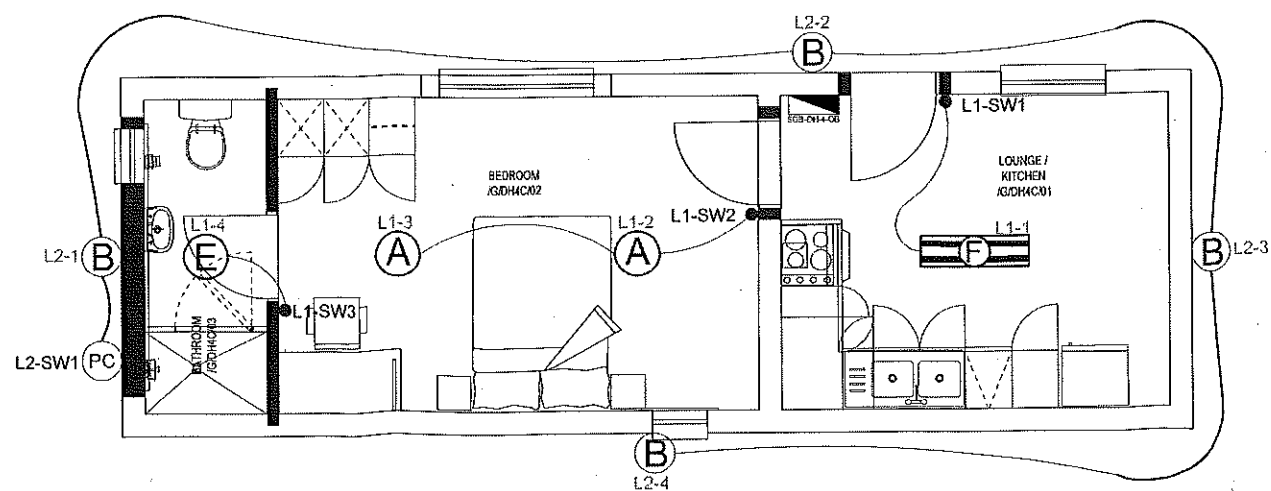
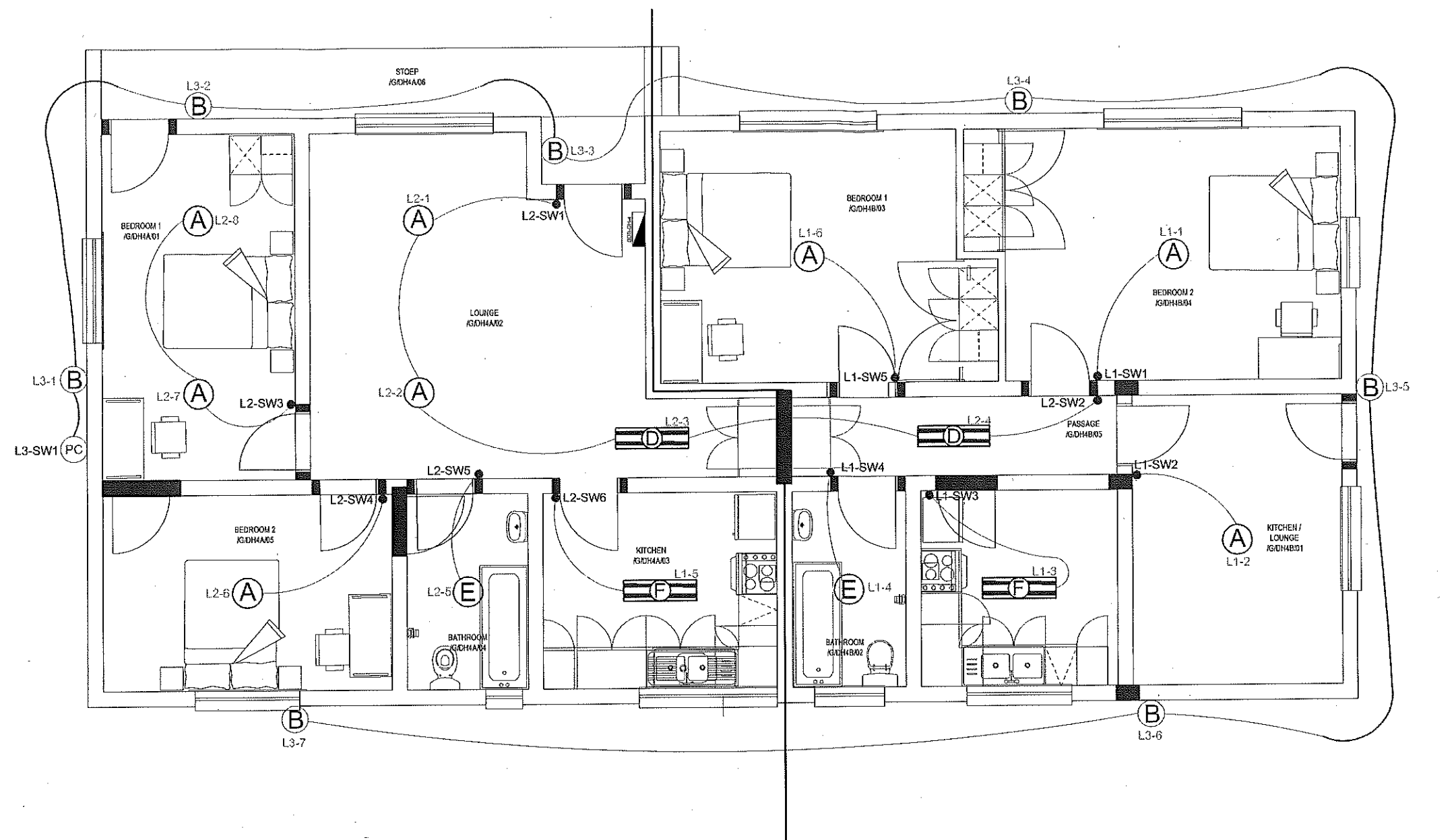
DRAWING TITLE:

**DOCTORS HOUSE 3
POWER LAYOUT**

DESIGNED:	DRAWN:	APPROVED:
S.P.	H.B.	L.N.N.
SCALE:	COPYRIGHT RESERVED	DATE: SEP 2017
N.T.S.	DRAWING FILE NAME: REV: 0	
POWER LAYOUT		
SHEET NO:	SIZE:	
CAR17E/1724/CZ/213E A		

PROJECT STATUS: **TENDER**





LEGEND	
	100mm DIAMETER HOLE
	200mm DIAMETER HOLE
	300mm DIAMETER HOLE
	400mm DIAMETER HOLE
	500mm DIAMETER HOLE
	600mm DIAMETER HOLE
	700mm DIAMETER HOLE
	800mm DIAMETER HOLE
	900mm DIAMETER HOLE
	1000mm DIAMETER HOLE
	1100mm DIAMETER HOLE
	1200mm DIAMETER HOLE
	1300mm DIAMETER HOLE
	1400mm DIAMETER HOLE
	1500mm DIAMETER HOLE
	1600mm DIAMETER HOLE
	1700mm DIAMETER HOLE
	1800mm DIAMETER HOLE
	1900mm DIAMETER HOLE
	2000mm DIAMETER HOLE

REVISIONS:			
No.	Date	By	Description

CLIENT: EASTERN CAPE DEPARTMENT OF HEALTH

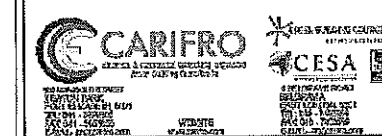


ARCHITECT

HOSPITAL DESIGN GROUP
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 P.O.Box 782, HARRISMITH, 9800



ELECTRICAL ENGINEERS



PROJECT TITLE:
**CANZIBE
 HOSPITAL
 LIVING
 QUARTERS**

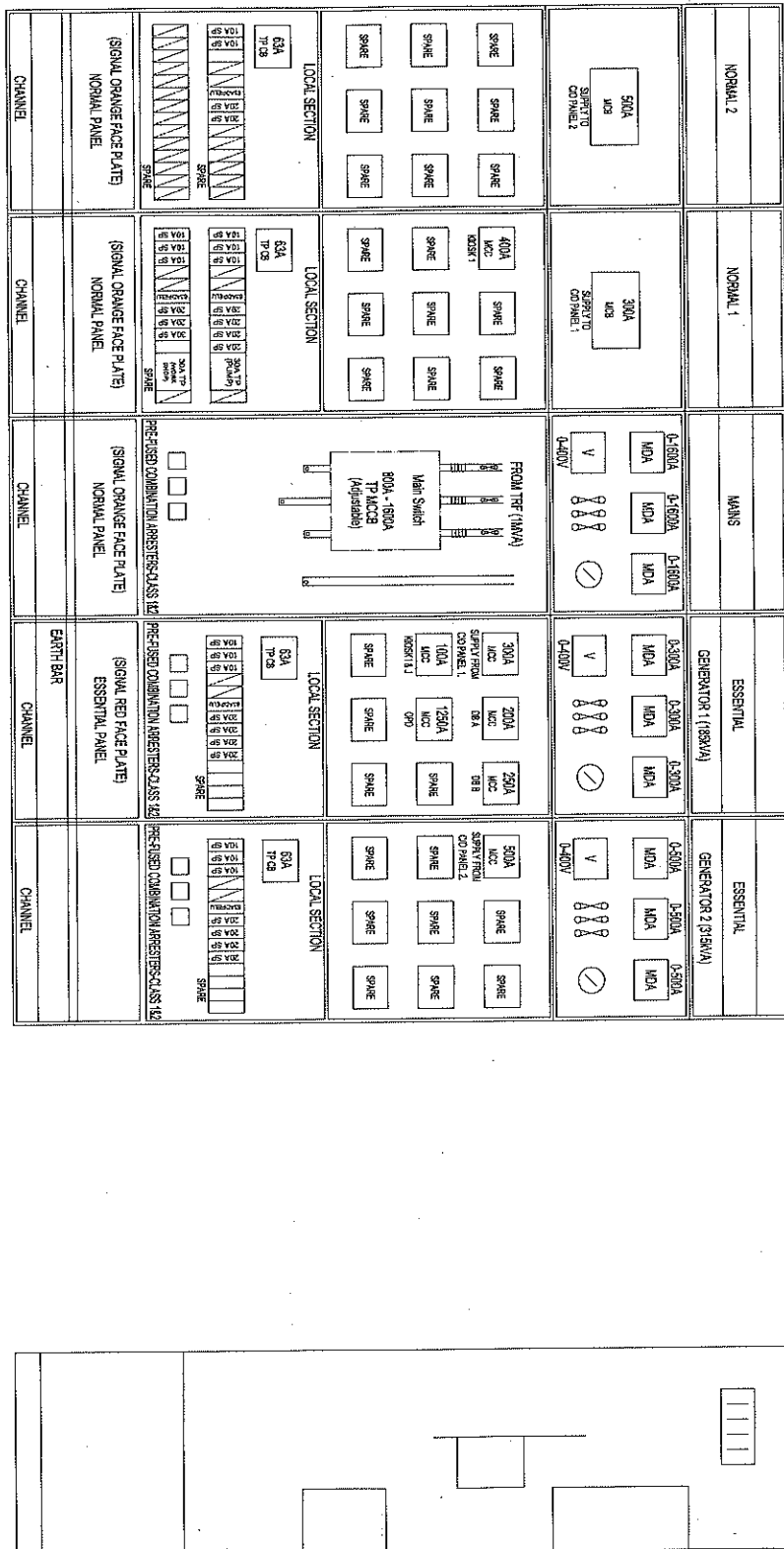
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**DOCTORS HOUSE 4
 LIGHTING LAYOUT**

DESIGNED: S.P.	DRAWN: H.B.	APPROVED: L.N.N.
SCALE: N.T.S	COPYRIGHT RESERVED	DATE: SEP 2017
DRAWING FILE NAME:	REV: 0	
SHEET NO: CAR17E/1724/CZ/214E	SIZE: A3	

PROJECT STATUS:
TENDER

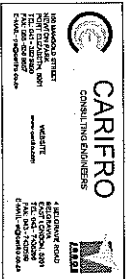
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S.P.	H.B.	L.N.N
SCALE:	COPYRIGHT RESERVED	DATE:
N.T.S		SEP 2017
DRAWING FILE NAME:		REV:
POWER		0
SHEET NO:		SIZE
CAR17E/1724/CZ/203E		A3
PROJECT STATUS:		
TENDER		



REVISIONS

No	Date	By	Description

CLIENT
DEPT OF HEALTHDISCIPLINE
ELECTRICAL ENGINEERINGPROJECT
CANZIBE HOSPITAL PHASE 2

TITLE

MAIN LV PANEL

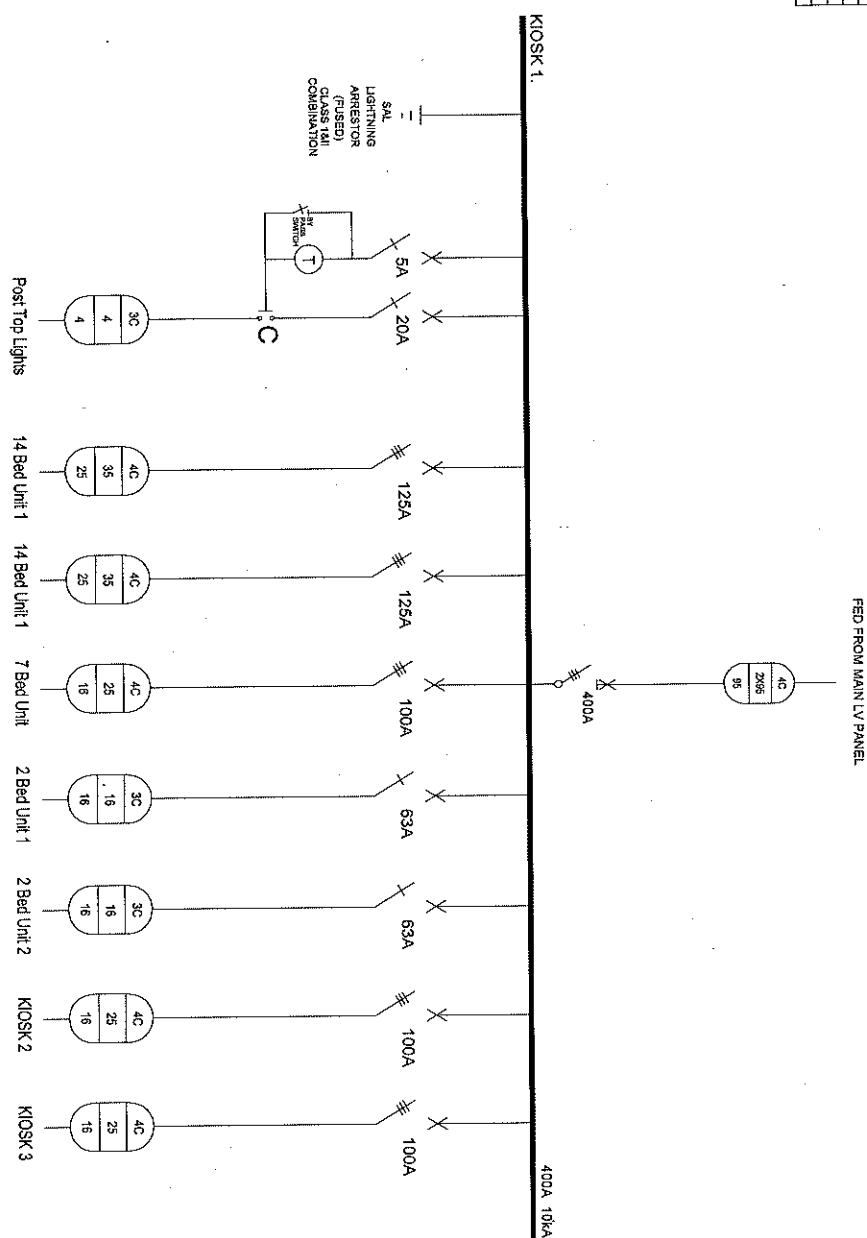
DESIGNED
S.PSCALE
NTSDRAWN
D.CAPPROVED
L.NCOPYRIGHT
RESERVEDDATE
Oct 2017

DRAWING No.


CAR17E/1724/CZ/300E

REV

0

[illegible]

CARIFRO
CONSULTING ENGINEERS



11191

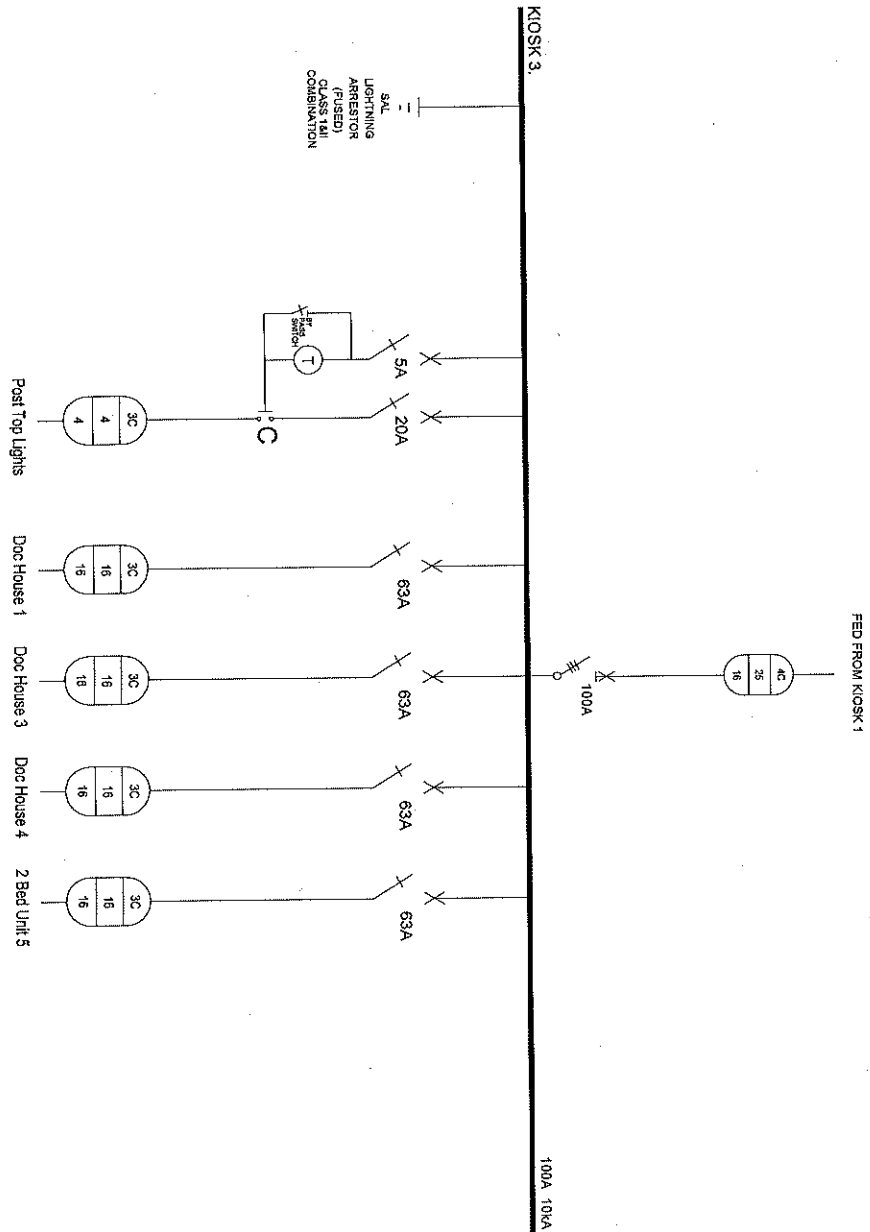
4 BLOOMING ROAD
BLOOMINGDALE, ILL 61710
TEL: (312) 251-0000
FAX: (312) 251-0000
E-MAIL: carifro@carifro.com

WEBSITE
www.carifro.com

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INVENTARIO PAPER
INVENTARIO PLASTICO
TEL: (312) 251-0000
FAX: (312) 251-0000
E-MAIL: carifro@carifro.com

CLIENT DEPT OF HEALTH	DISCIPLINE ELECTRICAL ENGINEERING	DESIGNED S.P	DRAWN D.C	APPROVED L.N
PROJECT CANZIBE HOSPITAL PHASE 2		SCALE NTS	COPYRIGHT RESERVED	DATE Oct 2017
TITLE KIOSK 1. SINGLE LINE DIAGRAM		DRAWING NO. CAR17E/1724/CZ/301E		REV 0

NAME: KIOSK 3		VOLTAGE: 230V	
RATING: BUSBAR: 400A		FAULT: 10KA	
SUPPLY: Bottom	<input checked="" type="checkbox"/>	Top	<input type="checkbox"/>
FEDERS: Bottom	<input checked="" type="checkbox"/>	Top	<input type="checkbox"/>
MOUNTING: Free Standing	<input checked="" type="checkbox"/>	Side	<input type="checkbox"/>
Recessed	<input type="checkbox"/>	Floor	<input type="checkbox"/>
DOORS: Yes	<input checked="" type="checkbox"/>	None	<input type="checkbox"/>
COLOUR: White	<input type="checkbox"/>	Red	<input type="checkbox"/>
Change	<input type="checkbox"/>	Green	<input type="checkbox"/>
Other	<input type="checkbox"/>		<input type="checkbox"/>
SPACE SPACE: 25%			



REVISIONS

No	Date	By	Description



CLIENT
DEPT OF HEALTH

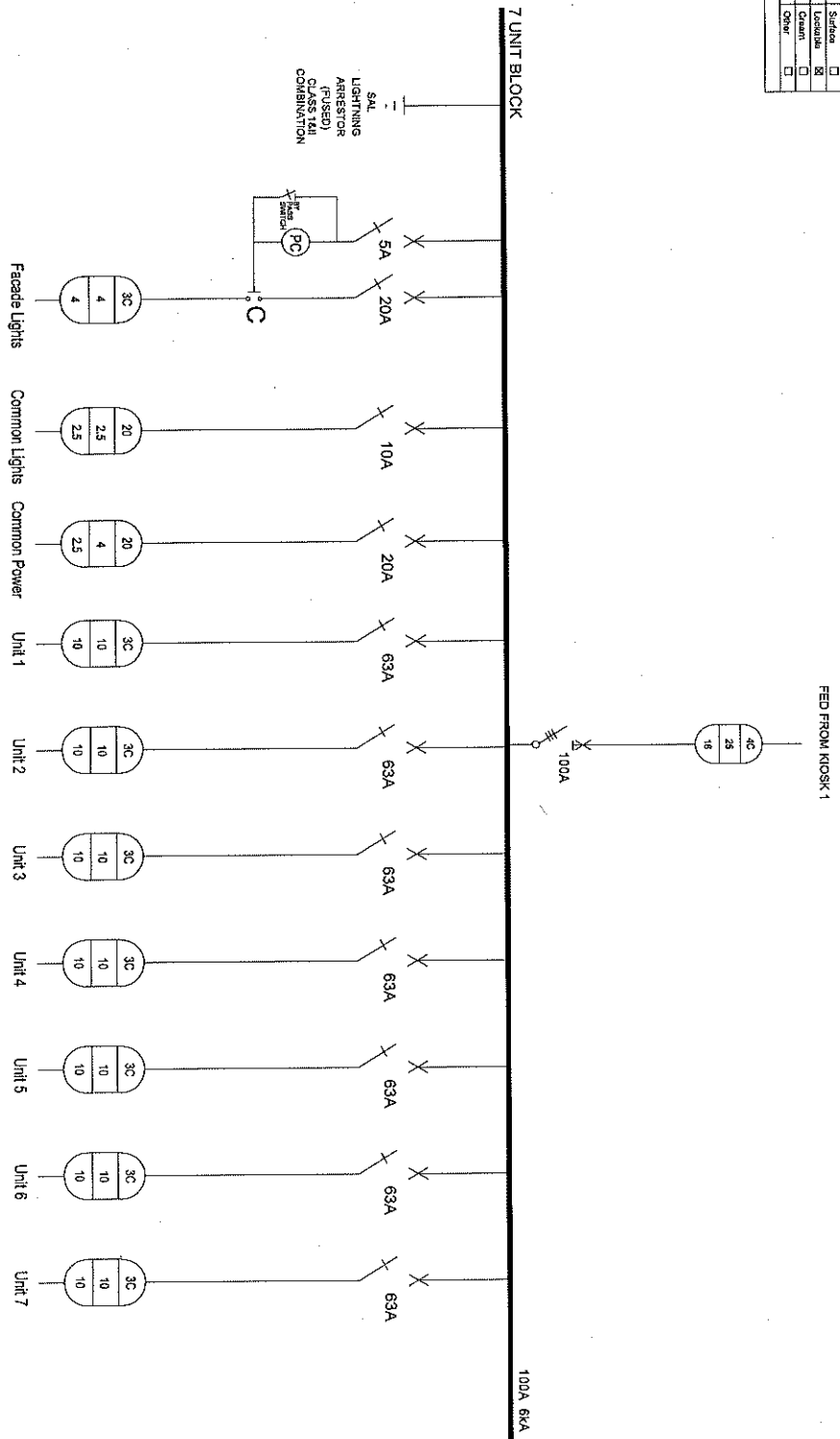
DISCIPLINE
ELECTRICAL ENGINEERING

PROJECT
CANZIBIE HOSPITAL PHASE 2

TITLE
KIOSK 3. SINGLE LINE DIAGRAM

DESIGNED S.P	DRAWN D.C	APPROVED L.N
SCALE NTS	COPYRIGHT RESERVED	DATE Oct 2017
DRAWING NO. CAR17E/1724/CZ/303E	REV 0	

NAME: SMDB 7 UNIT BLOCK		VOLTAGE: 400/230V	
RATING SUBST.	400A	FALLT.	6kA
SUPPLY	Bottom	Top	Side
FEDERS	Bottom	Top	Side
MOUNTING	Free Standing	Flt	Flt
DOORS	Yes	None	Locatable
COLOUR	White	Red	Green
Other	Orange	Green	Other
SPACE SPACE: 25%			



REVISIONS

No	Date	By	Description



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SINGAPORE 247099
TEL: 547 222 8888
FAX: 547 222 8888
E-MAIL: info@carifro.com



LEED
GREEN BUILDING
DESIGN + CONSTRUCTION
RATED 4.0

CLIENT
DEPT OF HEALTH

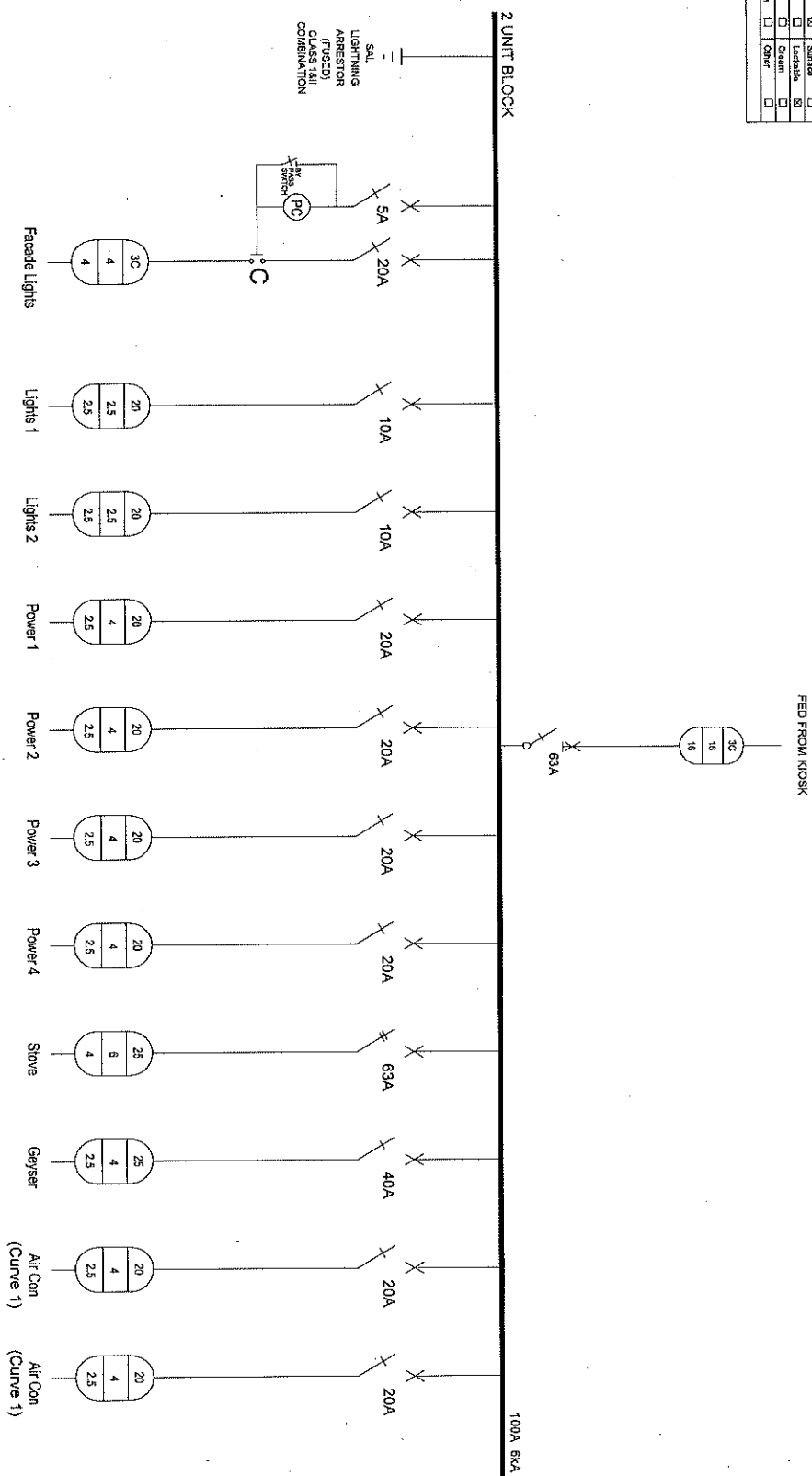
DISCIPLINE
ELECTRICAL ENGINEERING

PROJECT
CANZIBE HOSPITAL PHASE 2

TITLE

SMDB - TYPICAL 7 UNIT BLOCK

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DRAWING NO. CAR17E/1724/CZ/305E	REV 0	

[illegible]

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VIC 3083
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FAX: 03 420 0066
EMAIL: info@carifro.com.au

CLIENT _____
DEPT OF HEALTH _____
DISCIPLINE _____
ELECTRICAL ENGINEERING _____

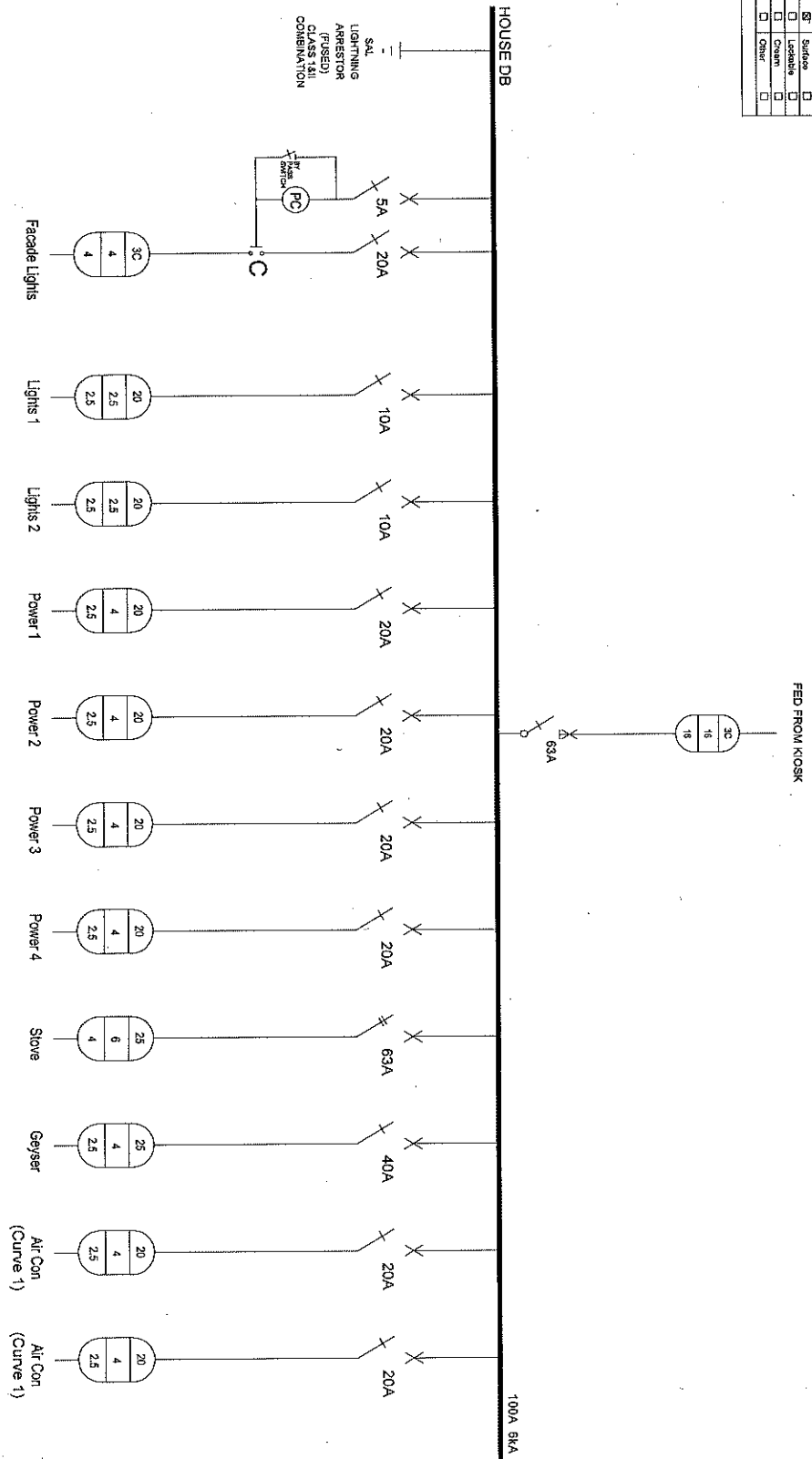
DESIGNED	DRAWN	APPROVED
S.P	D.C	L.N
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NTS	RESERVED	Oct 2017

TITLE

SMDB - TYPICAL 2 BED UNIT

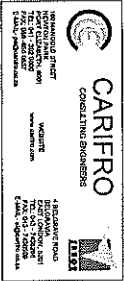
CAR17E/1724/CZ/306E

NAME: HOUSE DB	VOLTAGE: 230V
RATING: 100A	FAULT: 6KA
SUPPLY: Bottom	Top
FEEDERS: Bottom	Top
MOUNTING: Free Standing	Four
DOORS: Yes	No
COLOUR: White	Red
SPACE: 25%	Green
	Other



REVISIONS

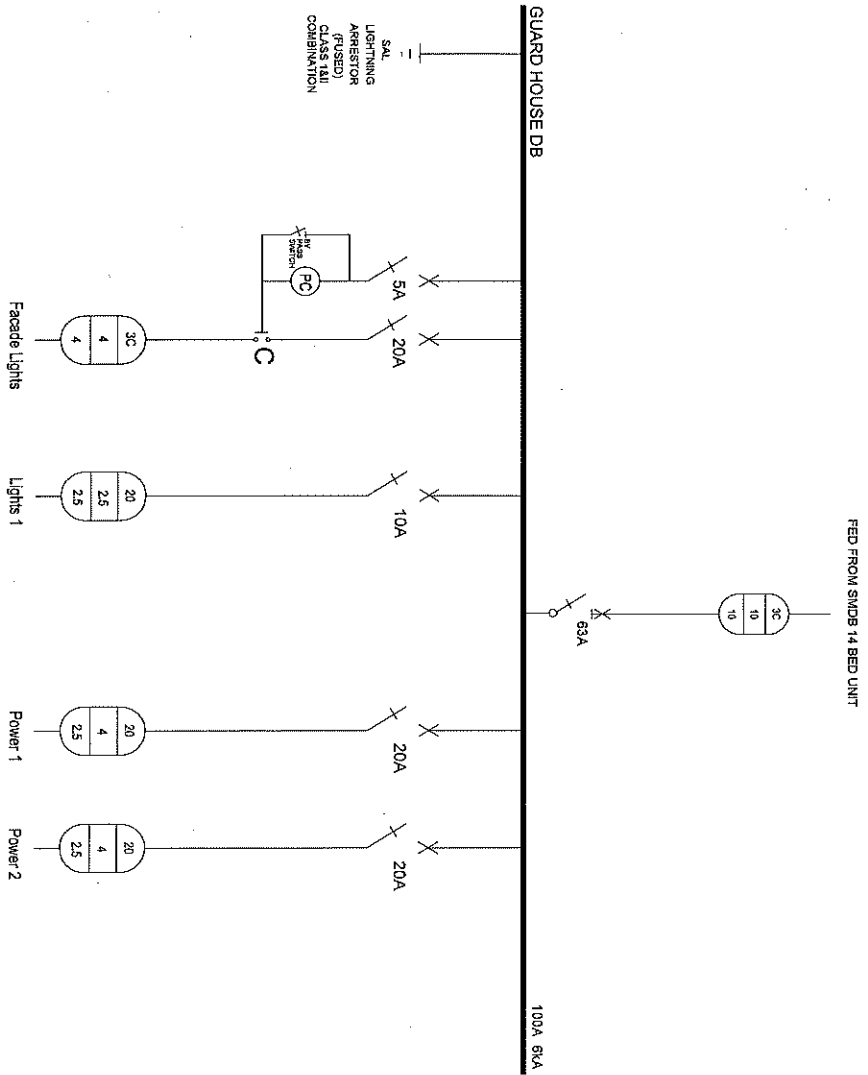
No	Date	By	Description



CLIENT	DISCIPLINE
DEPT OF HEALTH	ELECTRICAL ENGINEERING
PROJECT	
CANZIBE HOSPITAL PHASE 2	
TITLE	
SMDB - TYPICAL HOUSE DB	


DESIGNED	DRAWN	APPROVED
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NTS	RESERVED	Oct 2017
DRAWING NO.		REV
CAR17E/1724/CZ/308E		0

NAME: GUARD HOUSE DB	VOLTAGE: 400/230V
RATING: BUSBAR: 100A	FAULT: R/A
SUPPLY: Bottom	Top <input type="checkbox"/>
FEEDERS: Bottom	Top <input type="checkbox"/>
MOUNTING: Free Standing	Floor <input type="checkbox"/>
DOORS: Yes	Surround <input type="checkbox"/>
COLOUR: White	Red <input type="checkbox"/>
COLOUR: Cream	Green <input type="checkbox"/>
COLOUR: Other	Other <input type="checkbox"/>
SPACE SPACE: 25%	




REVISIONS

No	Date	By	Description



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No. 123456789
T/A 123456789
P.O. Box 123456
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Tel: +265 17 1234567
Fax: +265 17 1234567
Email: info@carifro.co.zm



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Email: info@mse.co.zm

CLIENT	DISCIPLINE
DEPT OF HEALTH	ELECTRICAL ENGINEERING
PROJECT	
CANZIBE HOSPITAL PHASE 2	
TITLE	
SMDB - GUARD HOUSE DB	

DESIGNED	DRAWN	APPROVED
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SCALE	COPYRIGHT	DATE
NTS	RESERVED	Oct 2017
DRAWING No.		REV
CAR17E/1724/CZ/309E		0