



Province of the
EASTERN CAPE
HEALTH

**CONTRACT No.:
SCMU3-17/18-0340-HO**

FOR

**CLUSTER 3
WILLOWVALE CHC GENERAL BUILDING AND
STAFF ACCOMMODATION REFURBISHMENT,
PAVING AND ROADWORKS**

FOR THE DEPARTMENT OF HEALTH

CONSISTING OF THE FOLLOWING:

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

FEBRUARY 2018

PREPARED FOR:

Eastern Cape Department of Health
Dukumbana Building, Independence Avenue
P.O. Box X0038
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5201

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:	WILLOWVALE CHC GENERAL BUILDING AND STAFF ACCOMMODATION REFURBISHMENT
Tender No:	SCMU3-17/18-0340-HO

C3.1 Scope of Works

Refurbishment consists of the following works:

- New High Level Steel Water Storage Tank and Stand (90kl)
- Upgrading of parking and paving (3400m²), new roadways (2200m²) and stormwater drainage
- Complete Refurbishment of: Staff House - Unit 1 (110m²)
Nurses Home Building - Unit 2 (366m²)
- Minor internal repairs and maintenance to existing CHC buildings

General:

- Provide burglar bars and safety glazing

METHODOLOGY OF PROJECT EXECUTION

1. Project Review

The work is to be executed at the existing Staff Accommodation building, internal roads and parking and elevated water tank. The building and affected areas are located within the Willowvale CHC grounds in Willowvale. The hospital shall remain fully functional 24 hours per day and 7 days per week throughout the contract period. The contractor shall ensure that access to the hospital and the critical areas are provided at all times

The objective of the contract is to improve the living conditions at the staff accommodation building, improve the condition of the road and parking areas and provide additional water storage capacity on site.

The occupants of the staff accommodation building must be decanted and/or relocated before work may commence. It should be noted that there may be other Contractors on site for the execution of works under a separate contract during the construction period

The project entails the following activities:

- Way finding signage
- Roads and parking
- Elevated water storage tank
- Refurbishment of Staff Accommodation

2. Restrictions and Constraints

The Contractor must incorporate the following list of restrictions and constraints into the Contractor's pricing strategy, program & resource allocation:

- Work shall be executed during normal working hours i.e. 07h00 till 17h00 daily, excluding weekends. Work required to be executed outside of these hours must be arranged with the Principal Agent, 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 sensitive clinical interventions being affected by noise and vibration.
- All shut-off and tie/cut-ins to existing services must be arranged in advance with the Principle Agent and a methodology with appropriate mitigation of risks must be prepared by the contractor and submitted to the Principle Agent in advance, for approval.
- Dust emanating from the work site must be contained and controlled at all times.

The intention of the above key restrictions and constraints is merely to make the Contractor aware of the above and shall by no means constitute a non-exhaustive list. It remains the responsibility of the Contractor to familiarise himself with the site conditions and the environment within the project will be executed.

3. Implementation Sequence

Without being prescriptive, the proposed sequence for the execution of the work provides an indication of the critical activities and trades that will be required to complete this project.

- Staff Accommodation
- External works (roads, parking & elevated water tank).

The Contractor shall at all times follow best practice principles in the execution of project to ensure work is done in such a manner that it is compliant to the relevant legislation and regulations governing the construction industry.

4. Operational Protocols

The Contractor shall abide by the following 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 a predetermined coloured overall to be able to enter and work on 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



safe working practice
OCCUPATIONAL HEALTH AND SAFETY GROUP

Project Health and Safety Specification

In terms of Construction Regulations 2014

Client



Province of the
EASTERN CAPE
HEALTH

Implementing Agent



Description of Project Works

Renovating and upgrading of guardhouse, signage, roads, parking, water and staff accommodation.

Project Location

Willowvale CHC, Mbhashe Municipality.

Date

6th October 2017

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South African Institute of
Occupational Safety and Health



Institute of Safety Management (IOSM) - South Africa
South African Institute of Safety and Health (SAIOSH) - South Africa
Association of Construction Health and Safety Management- South Africa
South African Construction Project Management and Construction Management Professions

PROJECT HEALTH AND SAFETY SPECIFICATION

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1.0 SPECIFIC PROJECT INFORMATION

1. 1 INTRODUCTION AND DEFINITIONS

PLEASE NOTE THAT THE REQUIREMENTS OF THE NEW CONSTRUCTION REGULATIONS 2014 HAVE BEEN IN EFFECT SINCE 7TH AUGUST 2014. THE NEW REGULATIONS PLACE ADDITIONAL LEGAL DUTIES UPON PRINCIPAL CONTRACTORS AND CONTRACTORS. ALTHOUGH THIS HEALTH AND SAFETY SPECIFICATION INCLUDES MUCH OF THE CONTENT OF THESE NEW REQUIREMENTS, THE CONTRACTOR WILL BE DEEMED TO BE FAMILIAR WITH THE REQUIREMENTS OF THESE REGULATIONS, AND TO HAVE FACTORED IN ALL THE DUTIES PLACED UPON CONTRACTORS AND PRINCIPAL CONTRACTORS IN THE TENDER. A COPY OF THE REGULATIONS CAN BE VIEWED ON THE DEPARTMENT OF LABOUR'S WEBSITE.

This Health and Safety Specification contains clauses that are generally applicable to construction activities, as well as imposing pro-active controls associated with activities that impact on Health and Safety as it relates to plant and machinery. Compliance to the requirements of the Occupational Health and Safety Act 1993 is in addition to the requirements of this Health and Safety Specification and is part of the Contractor's responsibility. The Client will monitor that the Contractors comply with the requirements of such legislation.

ALL REFERENCES TO CLIENT IN THIS HEALTH AND SAFETY SPECIFICATION ALSO REFER TO SAFETY AGENT, WHERE SO APPOINTED.

Definitions (as per the Construction Regulations 2014) applicable to this Health and Safety Specification:

"agent" means a competent person who acts as a representative for a Client;

"angle of repose" means the steepest angle of a surface at which a mass of loose or fragmented material will remain stationary in a pile on the surface, rather than sliding or crumbling away;

"bulk mixing plant" means machinery, appliances or other similar devices that are assembled in such a manner so as to be able to mix materials in bulk for the purposes of using the mixed product for construction work;

"client" means any person for whom construction work is being performed;

"competent person" means a person who has, in respect of the work or task to be performed, the required knowledge, training and experience and, where applicable, qualifications, specific to that work or task: Provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000), those qualifications and that training must be regarded as the required qualifications and training; and is familiar with the Act and with the applicable regulations made under the Act;

"construction manager" means a competent person responsible for the management of the physical construction processes and the coordination, administration and management of resources on a construction site;

"construction site" means a work place where construction work is being performed;

"construction supervisor" means a competent person responsible for supervising construction activities on a construction site;

"construction vehicle" means a vehicle used as a means of conveyance for transporting persons or material, or persons and material, on and off the construction site for the purposes of performing construction work;

"construction work" means any work in connection with-

- the construction, erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure; or



- the construction, erection, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system; or the moving of earth, clearing of land, the making of excavation, piling, or any similar civil engineering structure or type of work ;

"construction work permit" means a document issued in terms of regulation 3;

"contractor" means an employer who performs construction work;

Note:

a) Includes organisations and or self-employed person that contracts with a client, principal contractor, or a contractor to carry out construction work.

"demolition work" means a method to dismantle, wreck, break, pull down or knock down of a structure or part thereof by way of manual labour, machinery, or the use of explosives;

"design" in relation to any structure, includes drawings, calculations, design details and specifications;

"designer" means a competent person who-

- prepares a design;
- checks and approves a design;
- arranges for a person at work under his or her control to prepare a design, including an employee of that person where he or she is the employer; or
- designs temporary work, including its components;
- an architect or engineer contributing to, or having overall responsibility for a design;
- a building services engineer designing details for fixed plant;
- a surveyor specifying articles or drawing up specifications;
- a contractor carrying out design work as part of a design and building project; or
- an interior designer, shop-fitter or landscape architect;

"excavation work" means the making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping;

"explosive actuated fastening device" means a tool that is activated by an explosive charge and that is used for driving bolts, nails and similar objects for the purpose of providing fixing;

"fall arrest equipment" means equipment used to arrest a person in a fall, including personal equipment, a body harness, lanyards, deceleration devices, lifelines or similar equipment;

"fall prevention equipment" means equipment used to prevent persons from falling from a fall risk position, including personal equipment, a body harness, lanyards, lifelines or physical equipment such as guard-rails, screens, barricades, anchorages or similar equipment;

"fall protection plan" means a documented plan, which includes and provides for -

- all risks relating to working from a fall risk position, considering the nature of work undertaken;
- the procedures and methods to be applied in order to eliminate the risk of falling; and
- a rescue plan and procedures;

"fall risk" means any potential exposure to falling either from, off or into;

"health and safety file " means a file, or other record containing the information in writing required by these Regulations;

"health and safety plan" means a site, activity or project specific documented plan in accordance with the Client's health and safety specification;

"health and safety specification" means a site, activity or project specific document prepared by the Client pertaining to all health and safety requirements related to construction work;

"material hoist" means a hoist used to lower or raise material and equipment, excluding passengers;



"medical certificate of fitness" means a certificate contemplated in regulation 7(8);

"mobile plant" means any machinery, appliance or other similar device that is able to move independently, and is used for the purpose of performing construction work on a construction site;

"National Building Regulations" means the National Building Regulations made under the National Building Regulations and Building Standards Act, 1977 (Act No. 103 of 1977), and promulgated by Government Notice No. R. 2378 of 30 July 1990, as amended by Government Notices No's R. 432 of 8 March 1991, R. 919 of 30 July 1999 and R. 547 of 30 May 2008;

"person day" means one normal working shift of carrying out construction work by a person on a construction site;

"principal contractor" means an employer appointed by the Client to perform construction work;

"Professional Engineer or Professional Certificated Engineer" means a person holding registration as either a Professional Engineer or Professional Certificated Engineer in terms of the Engineering Profession Act, 2000 (Act No. 46 of 2000);

"Professional Technologist" means a person holding registration as a Professional Engineering Technologist in terms of the Engineering Profession Act, 2000;

"provincial director" means the provincial director as defined in regulation 1 of the General Administrative Regulations, 2003;

"scaffold" means a temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both;

"shoring" means a system used to support the sides of an excavation and which is intended to prevent the cave-in or the collapse of the sides of an excavation;

"structure" means-

- any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, bulk mixing plant, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;
- any falsework, scaffold or other structure designed or used to provide support or means of access during construction work; or
- any fixed plant in respect of construction work which includes installation, commissioning, decommissioning or dismantling and where any construction work involves a risk of a person falling;

"suspended platform" means a working platform suspended from supports by means of one or more separate ropes from each support;

"temporary works" means any falsework, formwork, support work, scaffold, shoring or other temporary structure designed to provide support or means of access during construction work;

"the Act" means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993);

"tunnelling" means the construction of any tunnel beneath the natural surface of the earth for a purpose other than the searching for or winning of a mineral.

Reference should be made to the following documentation in conjunction with this Safety Specification (including existing surveys, drawings and reports):

Tender documents Drawings

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IMPORTANT NOTE:

This Health and Safety Specification has been prepared to comply with the requirements of the Construction Regulations 2014.

1.2 BACKGROUND TO THE HEALTH AND SAFETY SPECIFICATION

Historically, the Construction Industry has had a poor health and safety record. Due to the complex and potentially dangerous operations being undertaken, there is a high risk of incidents, accidents and injuries. In many instances poor adherence to the Act and Regulations has resulted in severe consequences for Health and Safety performance. The Client is determined that the highest Health and Safety standards will prevail throughout the Contract and that there will be full commitment from all parties involved.

To achieve this goal the Client has prepared this Health and Safety Specification. The Health and Safety Specification sets out guidelines and minimum levels of awareness and guidance for Health and Safety requirements for the project. Contractual responsibility for adhering to these requirements rests with the Contractors. All employees are encouraged to be pro-active in compliance.

The Client is committed to ensuring the highest Health and Safety standards for all work undertaken within the Contract.

Contractors as employers are fully responsible and accountable for compliance with all Health and Safety requirements.

IMPORTANT NOTE:

Compliance with the Occupational Health and Safety Act and Regulations shall not be limited to this Health and Safety Specification and definitions contained in this document.

Contractors shall be conversant with the requirements and effects of Health and Safety legislation upon their activities, in particular the Construction Regulations, 2014, and the Occupational Health and Safety Act, 1993, and to have made adequate resource in their tender submission to comply with all legislative requirements.

The Contractor's personnel will be responsible for the auditing of the implementation of the Health and Safety Specification and maintaining the document control and record systems associated with the Health and Safety Specification. The Client will conduct Health and Safety audits of the works too.

1.3 PURPOSE OF THE HEALTH AND SAFETY SPECIFICATION

The purpose of this site-specific Health and Safety Specification is to comply with legal requirements and to provide health and safety information about specific project risks known by the Client, Designer and Safety Agent to be applicable to this project. This document also provides minimum health and safety requirements, standards and expectations that the principal contractor and contractors must adhere to.

The Contractor must consider all information in this specification and ensure that their tenders include adequate resource and competence to deal with the matters detailed herein so that all relevant contents are dealt with in a way which is in compliance with legislation and the ethical concerns for the safeguarding of employees, contractors and other persons affected by the construction activities.

The Health and Safety Specification will be implemented during construction of the works and any construction activity that the Client has control over.



This will also assist in ensuring that all the costs related to the compliance with Occupational Health Act 85 of 1993 and the Construction Regulations 2014, as well as this Health and Safety Specification, are taken into consideration at Tender stage.

No advice, approval of any document required by the Health and Safety Specification such as hazard identification and risk assessment action plans or any other form shall be construed as an acceptance by the Client of any obligation that absolves the Contractor from achieving the required level of performance and compliance with legal requirements.

Further, there is no acceptance of liability by the Client which may result from the Contractor failing to comply with the Health and Safety Specification unless the Client has issued an instruction to any requirement, i.e. the Contractor remains responsible for achieving the required performance levels.

1.4 IMPLEMENTATION OF THE HEALTH AND SAFETY SPECIFICATION

This Health and Safety Specification forms an integral part of the Contract, and Contractors shall make it an integral part of their Contracts with Contractors and Suppliers. Contractors employed by the Client are to ensure that the provisions of the Health and Safety Specification are applied both on the site and in respect of all off site activities relating to the project, in particular in transport activities and project dedicated off site fabrication works.

The Contractor shall enforce the provisions of the Health and Safety Specification amongst all Contractors and suppliers for the project.

The Contractor shall sign the acknowledgment on the last page of this safety specification that he/she has familiarized him/herself with the content of the Health and Safety Specification and shall comply with all obligations in respect thereof.

The successful Contractor will be required to compile a Health and Safety Plan based on the requirements of the Occupational Health Act 85 of 1993 and these Specifications, which will need to be approved by Client prior to commencement with construction work.

1.4.1 Client Duties

In terms of the Construction Regulations 2014 the Client (or their Agent, where appointed) has legal duties. Where an Agent (refer to "definitions" section of this document) is appointed in terms of this project, these Health and Safety duties assigned will also apply.

All references to "Client" will apply to their appointed "Safety Agent", where so appointed, in this Health and Safety Specification.

The Client must:

- Prepare a baseline risk assessment for the construction work
- Prepare a suitable, sufficiently documented and coherent site specific Health and Safety specification for the intended construction work, based on the baseline risk assessment
- Include the health and safety specification in the tender documents
- Ensure that potential principal contractors submitting tenders have made adequate provision for the cost of health and safety measures
- Ensure that the principal contractor to be appointed has the necessary competencies and resources to carry out the construction work safely
- Take reasonable steps to ensure co-operation between all contractors appointed by the Client to enable each of those contractors to comply with the regulations
- Ensure, before work commences, that every principal contractor is registered and in good standing with the compensation fund, or with a licensed compensation insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act, 1993 (Act no 130 of 1993)
- Appoint each principal contractor in writing for the project, or part thereof

- Discuss and negotiate with the principal contractor the contents of the principal contractor's safety plan and thereafter finally approve that plan for implementation
- Ensure that a copy of the principal contractor's health and safety plan is implemented and maintained
- Ensure that periodic health and safety audits and document verification are conducted at intervals mutually agreed upon between the principal contractor and any contractor, but at least once every 30 days
- Ensure that a copy of the health and safety audit report is provided to the principal contractor within 7 days after the audit
- Stop any contractor from executing a construction activity which poses a threat to the health and safety of persons which is not in accordance with the principal contractor's health and safety plan for site
- Where changes are brought about to the design or construction work, make sufficient health and safety information and appropriate resources available to the principal contractor to execute the work safely
- Ensure that the health and safety file is kept and maintained by the principal contractor.
- Where the Client requires additional work to be performed as a result of a design change or error in construction due to the actions of the Client, the Client must ensure that sufficient safety information and appropriate additional resources are available to execute the required work safely.
- Where more than one principal contractor is appointed, the Client must take reasonable steps to ensure co-operation between all principal contractors and contractors to ensure compliance with the Regulations
- Where the Client has appointed a Safety Agent for the project, their details for this project are contained in the Project Directory section of this health and safety specification.

1.4.2 Designer Duties

It must be noted that the Designer also has Health and Safety duties assigned in terms of the Construction Regulations. Where the contractor fulfils a design function in terms of this project (refer to "definitions" section of this document), these duties will also apply. Please refer to Regulation 6 of the Construction Regulations 2014.

Please note that the designer of temporary works must ensure that:

- all temporary works are adequately designed so that it will be capable of supporting all anticipated vertical and lateral loads that may be applied;
- the designs of temporary works are done with close reference to the structural design drawings issued by the contractor, and in the event of any uncertainty consult the contractor;
- all drawings and calculations pertaining to the design of temporary works are kept at the office of the temporary works designer and are made available on request by an inspector; and
- the loads caused by the temporary works and any imposed loads are clearly indicated in the design.

1.5 PROJECT DIRECTORY		
Project Client	Eastern Cape Department of Health Independence Avenue Dukumbana Building Bhisho	Tel: 040 608 0000
Contact Person	Tawanda Chiverevere	e-mail: tawanda.echealth@gmail.com
Principle Agent	Sakhiwo Maintenance Consortium 1 Rochester Road, Vincent East London	
Contact Person		
Consulting Engineer	Lukhozi Consulting Engineers Quartzite Drive The Quarry Selborne East London	Tel: 043 721 1321
Contact Person	Casper Brink	e-mail: c.brink@lukhozi.co.za
Architect	HDG Architecture 50 Balfour Road Vincent East London	Tel: 043 727 0765
Contact Person	Marion Olivier	e-mail: mario@hdg.co.za
Construction Safety Agent	Safe Working Practice 12 Putney Avenue Nahoon Valley East London	Tel: 043 735 1774
Contact Person	Jay Bhana	Fax: 086 720 1149 Cell: 084 479 2294 e-mail: buffalo@safeppractice.co.za
Quantity Surveyor	Clarence Bobie & Partners Pilot Mill House Selbourne East London	Tel: 043 721 0573
Contact Person	F Smit	e-mail: francios@cbigs.co.za



OTHER PARTIES DIRECTORY	
Department of Labour for submission of Annexure 2: (Notification of Construction Work) Mthatha: Thembisa Macakati	Tel: 047 501 5600 e-mail: thembisa.macakati@labour.gov.za Mobile: 079 872 4855
Department of Labour Mthatha: Thembisa Macakati	Tel: 047 501 5600 Mobile: 079 872 4855
Telecommunications Contractor to refer all queries on location and nature of existing services to the Project Manager / Client, etc. OR Contractor to apply for and refer to wayleave information from service providers for the nature and location of services. Refer all queries Project Manager. Company: Telkom	Tel: 10215
Water Mbhashe Municipality 454 Streatfield Road Dutywa	Tel: 047 489 5800
Electricity Mbhashe Municipality 454 Streatfield Road Dutywa	Tel: 047 489 5800

1.6 PROJECT DETAILS

Description of Works

Guardhouse

Renovation and upgrading

Signage

Install signage giving clear direction to the hospital. Large signage at the entrance to the hospital required. Site signage for easy wayfinding is required directional signage on the site to be installed.

Roads & Parking

Roads to be upgraded and tarred/paved on site. Extensive civil work is required attending to site drainage and roads particularly. Formal visitor and staff parking is required. Ambulance to have a dedicated route to the emergency drop off point level with the emergency entrance.

Water

Elevated Water tank (Engineer to confirm)

Staff accommodation

Engineer and architect to confirm



Anticipated Construction Duration TBA
Provisional Start Date TBA
Completion Date TBA

1.7 EXISTING ENVIRONMENT
Hazards to this project by virtue of location: Asbestos Dust Safety of public
Overhead, Above Ground and Underground Services crossing the site: Overhead: No Underground: Yes Ground level: Yes Service Drawings available: Request from engineer Wayleaves required: Request from engineer Permits required: Yes Isolations required: Yes
Existing structures and surrounding land use (with a significant impact on Health & Safety): Emergency building. (Ambulance entering at fast pace)
Existing ground conditions and ground survey report: To be requested from engineer
Existing Traffic Systems Condition: Gravel road Restrictions to access: Do not block any part of the road as emergency services need to access premises Speed restrictions: 20km/h as there are patients walking on the premises



1.8 AVAILABLE DRAWINGS

Refer to tender documentation. Request from engineer

1.9 PROJECT HEALTH AND SAFETY REQUIREMENTS

Significant health and safety hazards identified by Designer and Safety Agent:

Asbestos

Other construction hazards expected are as follows:

Asphalting
Bricklaying
Bulk Mixing Plant
Compacting and Filling
Compactor Operations
Concrete Pumping
Contaminated Land
Cutting Off Disc
Electric Tools and Electrical Installations
Excavations
Explosive Actuated Fastening Devices
Fire
Flammable Liquids / Gas
Hand tools
Hazardous Substances
Kerb Laying
Lifting Operations
Manhole Rings and Pipes Storage
Manual Handling of General Items
Members of Public
Noise and Dust
Painting
Paving (Laying)
Piling
Plant/Vehicle and Equipment Operation
Plastering
Plumbing
Shuttering Walls, Beams, Columns
Site Strip
Skipping of Concrete
Scaffolding
Snakes
Steel Fixing
Underground Services

NOTE: Please refer to end of this Health and Safety Specification for the baseline risk assessment for these risks.

ACTIVITIES REQUIRING APPROVED METHOD STATEMENTS (FOR HEALTH AND SAFETY)

Site establishment

ACTIVITIES REQUIRING PERMITS (FOR HEALTH AND SAFETY PURPOSES)

Permit to Dig: Yes

Permit to Enter Excavations: Yes

Permit to Work with Electricity: Yes

Confined Space Permit: N/A

Hot Works Permit: N/A

Permit to Work under Power Lines: N/A

Blasting: N/A

Temporary Works: N/A

CONTRACTOR SAFETY OFFICER PROVISION

Records of safety audits undertaken by the Contractor's Safety Officer must be kept on site in the safety file and non-conformances reported by the Safety Officer to the Contractor's management team. All non-conformances identified by the Safety Officer must be investigated and corrective action taken by the Contractor to prevent re-occurrence.

FULL TIME SAFETY OFFICER

Please note that as from 7th August 2015 the safety officer must have formally applied to be professionally registered with the SACPCMP. If their registration is not yet complete, the safety officer must be in possession of a "Registration Verification Letter" which will be issued by the SACPCMP.

MEDICAL CERTIFICATE OF FITNESS

The contractor must ensure that their employees on site have a valid medical certificate of fitness, specific to the construction work being performed, issued by an occupational health practitioner in the form of an Annexure 3 template.

MANAGEMENT AND SUPERVISION OF CONSTRUCTION WORK

A principal contractor must, in writing, appoint one full-time competent person as the construction manager with the duty of managing all the construction work on a single site, including the duty of ensuring occupational health and safety compliance, and in the absence of the construction manager an alternate must be appointed by the principal contractor. Proof of all-inclusive assessment of the Construction Manager's Competency in construction management and H&S competency must be available in the Safety File. The Construction Manager must, as a minimum, have a Construction Regulation course.

ENVIRONMENTAL CONDITIONS

Contractor must take into account adverse weather conditions on site activities and implement control measures to mitigate risk. This includes risk of exposure to excessive heat, cold, rain and wind. The open nature of the site works will not preclude any of the above.

ARRANGEMENTS FOR ACCESS, PARKING, DELIVERIES, ETC.

Access to site by Construction Vehicles: Entrance gate

Access to site by Construction Workers and Visitors: Through hoarding gate.

All visitors must be inducted when coming on to site.

ARRANGEMENTS FOR SITE CAMP, ABLUTIONS AND YARD

Site camp location and set up

- **Restrictions / requirements:** }
} Contractor to advise in consultation
} with Engineer / Professional Team
- **Storage areas:** }
}
- **Security:** }

Ablutions and Welfare Arrangements

Contractor to supply ablutions and facilities in line with the Construction Regulations 2014, refer to section 2.31 of this health and safety specification regarding the below. Please note that toilets should be provided with built in facilities for hand washing:

- **Toilets:** }
}
- **Washing facilities:** }
}
- **Drinking Water:** } Contractor to provide as per Regulations
}
- **Shelter:** }
}
- **Showers:** }

PROTECTION OF SITE AGAINST UNAUTHORISED ACCESS BY PUBLIC

Excavation Fencing: Note that excavations accessible to public, or adjacent to public roads / thoroughfares, must have (1) barrier / fence of at least 1m in height, and (2) warning illuminates at night or when visibility is poor, or have other suitable precautionary measures if of both these are not practicable.

General Fencing of Site: Note that construction sites in built up areas adjacent to public way must be fenced off and have controlled access points.

Warning Notices: The necessary warning signs must be displayed. e.g. PPE, No unauthorized access, report to site office, construction entry, no entry, first aid, fire extinguishers

Look Outs: Employee to be stationed at entry gate with visitors register.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

The Client requires the Contractor to ensure that employees (and others under his/her control) wear the following minimum PPE:

Overalls: Yes

Safety Harnesses: When working at heights

Hard Hats: Yes

Reflective Vests: Yes

Goggles / gloves / ear defenders / respiratory protection: When required

Safety Footwear: Yes

Specialist Equipment (e.g. for confined Spaces): n/a

HAZARDOUS SUBSTANCES

The following materials and substances have, or may have, to be used in the works and are identified as potentially posing special health and / or safety hazards during the project. Appropriate measures will need to be specified for their control:

Diesel
Petrol
Cement
Paint
Shutter Oil
Hydraulic Oil
Thinners

1.10 INTERFACE AND RESTRICTIONS BY CLIENT

Contractor must note that the following Client activities will continue during construction:

Willowvale CHC will still be operational. i.e. there will still be patients in the clinic, staff members living on premises.

The following Client safety rules and/or requirements are to be observed:

All workers and visitors are to receive induction prior to commencement of work on site.
Other safety rules and requirements to be advised at induction.
Please also refer to tender document.
No patients or hospital staff may access the construction zone

Restrictions on times, access or other restrictions by Client

Please refer to tender document.
Other restrictions may be advised at induction.

If there is a need for night work, this must be confirmed with the engineer and client agent first

1.11 SAFETY FILE RETURN TO CLIENT

The Safety File for the Project is to be handed over by the Principal Contractor to the Client upon Project Completion in either a hard copy format or on CD.

2.0 FURTHER REQUIREMENTS

2.1 Duties of Principal Contractor / Contractor in terms of Construction Regulations 2014

A Principal Contractor must:

- provide and demonstrate to the Client a suitable, sufficiently documented and coherent site specific health and safety plan, based on the Client's documented health and safety specifications, which plan must be applied from the date of commencement of and for the duration of the construction work and which must be reviewed and updated by the principal contractor as work progresses;
- open and keep on site a health and safety file, which must include all documentation required in terms of the Act and these Regulations, which must be made available on request to an inspector, the Client, the Client's Safety Agent or a Contractor; and
- on appointing any other contractor, in order to ensure compliance with the provisions of the Act –
 - provide contractors who are tendering to perform construction work for the principal contractor, with the relevant sections of the health and safety specifications pertaining to the construction work which has to be performed;
 - ensure that potential contractors submitting tenders have made sufficient provision for health and safety measures during the construction process;
 - ensure that no contractor is appointed to perform construction work unless the principal contractor is reasonably satisfied that the contractor that he or she intends to appoint, has the necessary competencies and resources to perform the construction work safely;
 - ensure prior to work commencing on the site that every contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act, 1993;
 - appoint each contractor in writing for the part of the project on the construction site
 - take reasonable steps to ensure that each contractor's health and safety plan is implemented and maintained on the construction site;
 - ensure that the periodic site audits and document verification are conducted at intervals mutually agreed upon between the principal contractor and any contractor, but at least once every 30 days;
 - stop any contractor from executing construction work which is not in accordance with the Client's health and safety specifications and the principal contractor's health and safety plan for the site or which poses a threat to the health and safety of persons;
- where changes are brought about to the design and construction, make available sufficient health and safety information and appropriate resources to the contractor to execute the work safely;
- discuss and negotiate with the contractor the contents of their health and safety plan and finally approve that plan for implementation;
- ensure that a copy of both the principal contractor and contractor's health and safety plan is available on request to an employee, an inspector, a contractor, the Client or the Client's Safety Agent;
- hand over a consolidated health and safety file to the Client upon completion of the construction work, to include a record of all drawings, designs, materials used and other similar information concerning the completed structure;



- in addition to the documentation required in the health and safety file include and make available a comprehensive and updated list of all the contractors on site accountable to the principal contractor, the agreements between the parties and the type of work being done;
- ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3.

A contractor must prior to performing any construction work-

- provide and demonstrate to the principal contractor a suitable and sufficiently documented health and safety plan, based on the relevant sections of the Client's health and safety specification and provided by the principal contractor, which plan must be applied from the date of commencement of and for the duration of the construction work and which must be reviewed and updated by the contractor as work progresses;
- open and keep on site a health and safety file, which must include all documentation required in terms of the Act and these Regulations, and which must be made available on request to an inspector, the Client, the Client's Safety Agent or the principal contractor;
- before appointing another contractor to perform construction work be reasonably satisfied that the contractor that he or she intends to appoint has the necessary competencies and resources to perform the construction work safely;
- co-operate with the principal contractor as far as is necessary to enable each of them to comply with the provisions of the Act;
- as far as is reasonably practicable, promptly provide the principal contractor with any information which might affect the health and safety of any person at work carrying out construction work on the site, any person who might be affected by the work of such a person at work, or which might justify a review of the health and safety plan.

Where a contractor appoints another contractor to perform construction work, the duties that apply to the principal contractor will apply to the contractor as if he or she were the principal contractor.

A principal contractor must take reasonable steps to ensure co-operation between all contractors appointed by the principal contractor to enable each of those contractors to comply with these Regulations.

No contractor may allow or permit any employee or person to enter any site, unless that employee or person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.

A contractor must ensure that all visitors to a construction site undergo health and safety induction training pertaining to the hazards prevalent on the site and must ensure that such visitors have the necessary personal protective equipment.

A contractor must at all times keep on his or her construction site records of the health and safety induction training and such records must be made available on request to an inspector, the Client, the Client's Safety Agent or the Principal Contractor.

A contractor must ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3 (a template of which can be found in the Construction Regulations, 2014).

2.2 Management and Supervision of Construction Work

A principal contractor must, in writing, appoint one full-time competent person as the construction manager with the duty of managing all the construction work on a single site, including the duty of ensuring



occupational health and safety compliance, and in the absence of the construction manager an alternate must be appointed by the principal contractor. Proof of all-inclusive assessment of the Construction Manager's Competency in construction management and H&S competency must be available in the Safety File. The Construction Manager must, as a minimum, have a Construction Regulation course. No contractors may be left unsupervised on site by the principal contractor.

A principal contractor must upon having considered the size of the project, in writing appoint one or more assistant construction managers for different sections thereof: Provided that the designation of any such person does not relieve the construction manager of any personal accountability for failing in his or her management duties in terms of this regulation.

Where the construction manager has not appointed assistant construction managers, or, in the opinion of an inspector, a sufficient number of such assistant construction managers have not been appointed, that inspector must direct the construction manager in writing to appoint the number of assistant construction managers indicated by the inspector, and those assistant construction managers must be regarded as having been appointed.

No construction manager appointed in terms of the Regulations may manage any construction work on or in any construction site other than the site in respect of which he or she has been appointed.

A contractor must, after consultation with the Client and having considered the size of the project, the degree of danger likely to be encountered or the accumulation of hazards or risks on the site, appoint a full-time or part-time construction health and safety officer in writing to assist in the control of all health and safety related aspects on the site: Provided that, where the question arises as to whether a construction health and safety officer is necessary, the decision of an inspector is decisive.

No contractor may appoint a construction health and safety officer to assist in the control of health and safety related aspects on the site unless he or she is reasonably satisfied that the construction health and safety officer that he or she intends to appoint is registered with a statutory body approved by the Chief Inspector and has necessary competencies and resources to assist the contractor

A construction manager must in writing appoint construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site. Proof of all-inclusive assessment of the Construction Supervisor's competency in construction supervision and H&S competency must be available in the Safety File. The Construction Supervisor must, as a minimum, have a supervision course as per Unit Standard 262845 (Civil Engineering), 119080 (Building Construction) and 262884 (Civil Engineering).

A contractor must, upon having considered the size of the project, in writing appoint one or more competent employees for different sections thereof to assist the construction supervisor, and every such employee has, to the extent clearly defined by the contractor in the letter of appointment, the same duties as the construction supervisor: Provided that the designation of such employee does not relieve the construction supervisor of any personal accountability for failing in his or her supervisory duties.

Where the contractor has not appointed such an employee, or, in the opinion of an inspector, a sufficient number of such employees have not been appointed, that inspector must instruct the employer to appoint the number of employees indicated by the inspector.

No construction supervisor appointed may supervise any construction work on or in any construction site other than the site in respect of which he or she has been appointed: Provided that if a sufficient number of competent employees have been appropriately designated on all the relevant construction sites, the appointed construction supervisor may supervise more than one site.

2.3 Notification of Intention to Commence Construction Work

The Contractor shall notify the Provincial Director of the Department of Labour of the intention to commence construction work at least 7 days prior to the works commencing if the intended construction work will:

- Include excavation work



- Include work at height where there is a risk of falling
- Include the demolition of a structure, or
- Include the use of explosives to perform construction work.

If the construction work involves construction of a single storey dwelling for a Client, and such Client will be residing in such dwelling upon completion, the contractor must also notify the Provincial Director of the Department of Labour at least 7 days before the works commence.

This must be done on a form similar to an Annexure 2 (template of which can be found in the Construction Regulations, 2014). A copy of the notification letter to the Provincial Director shall be forwarded to the Client for record purposes.

2.4 Construction Work Permit

A client who intends to have construction work carried out, must at least 30 days before that work is to be carried out apply to the provincial director in writing for a construction work permit to perform construction work if the intended construction work starts on or after the 7th of February 2017 and the works contract is of a value exceeding R40 million or Construction Industry Grading Board (CIDB) grading level 8.

It is the Construction Health and Safety Agent's responsibility to apply for this permit from the Provincial Director and construction work may not commence until the permit has been issued by the Provincial Director.

A copy of this permit will be required to be kept in the principal contractor's safety file, and the site specific number issued by the Provincial Director must be displayed at the site entrance.

2.5 Assignment of Contractor's Responsible Persons to Manage Health and Safety on Site

The Contractor shall submit management and supervisory appointments as well as any relevant appointments in writing (as stipulated by the Construction Regulations 2014 and the Occupational Safety and Health Act 1993), prior to commencement of work (refer to **Annexure B** at the end of this Health and Safety Specification).

2.6 Competency for Contractor's Responsible Persons

The Contractor's responsible persons shall be competent in health and safety and be familiar with the Occupational Health and Safety Act 1993, and applicable regulations. Valid proof of pertinent health and safety courses attended by such persons will be required to be presented to the Client.

2.7 Compensation of Occupational Injuries and Diseases Act 130 of 1993 (COIDA)

The successful Contractor shall submit to the Client a valid letter of good standing with the Compensation Insurer prior to appointment.

2.8 Occupational Health and Safety Policy

The Contractor shall submit their Health and Safety Policy, prior to construction commencement, signed by the Chief Executive Officer. The Policy must outline objectives and how they will be achieved and implemented within the company operations. The Policy must be communicated to all employees and proof thereof must be available in the Safety File.

2.9 Health and Safety Organogram

The Contractor shall submit an organogram, prior to construction commencement, outlining the Health and Safety Site Team that will be assigned to the project, if successful with the tender. In cases where appointments have not been made, the organogram shall reflect the position. The organogram shall be updated, when there is a change in the site team.

2.10 Risk Assessments

Baseline Risk Assessment

The Client shall cause a baseline risk assessment to be conducted by a competent person before the design process and tender process commence, and the assessed risks shall form part of the health and safety specifications.

The Contractor must, before commencement of any construction work, and during construction work, have risk assessments performed by a competent person appointed in writing, which risk assessments form part of the health and safety plan to be applied on the site and must include:

- The identification of the risks and hazards to which persons may be exposed to;
- An analysis and evaluation of the risks and hazards identified; based on a documented method
- A documented plan and applicable safe work procedures to mitigate, reduce or control the risks and hazards that have been identified;
- A monitoring plan; and
- A review plan

The Contractor must ensure that, as far as is reasonably practicable, ergonomic related hazards are analysed, evaluated and addressed in a risk assessment.

The Contractor must ensure that all employees under his control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures and/or control measures **before any work commences** and thereafter **at the times determined in the risk assessment monitoring and review plan of the relevant site.**

The Principal Contractor must ensure that all contractors are informed regarding any hazard that is stipulated in the risk assessment **before any work commences** and thereafter **at the times determined in the risk assessment monitoring and review plan of the relevant site.**

The Contractor must consult with the health and safety committee or with a representative trade union or representative group of employees if no health and safety committee exists, on the monitoring and review of the risk assessments for the site.

The Contractor must ensure that copies of risk assessment for this site are available on site for inspection purposes by interested parties (inspector, the Client, Client's Safety Agent, any contractor, any employee, a representative trade union, a health and safety representative or safety committee member.

A Contractor must review the relevant risk assessment where changes are affected to the design and/or construction that result in a change to the risk profile, or when an incident has occurred.

Preventative measures must first address the elimination of the hazard or risk. Should PPE be required to reduce risk, the equipment or clothing to be used must be SABS approved.

In general, the Contractor must ensure that the Risk Assessment involves identifying the hazards present in a work activity on site. This is followed by an evaluation of the extent of the risk involved taking into account those precautions already being taken.

The following general principle should be followed when conducting a risk assessment:

- All relevant risks and/or hazards should be systematically addressed;
- The risk assessment should address what actually happens in the workplace during the work activity;
- All employees and those who may be affected must be considered, including maintenance staff, security guards, visitors and Contractors;



- The risk assessment should highlight those groups and individuals who may be required to work alone or who have disabilities;
- The risk assessment process should take into account the existing safety measures and controls.
- The level of detail on a risk assessment should be appropriate to the level of risk.

2.11 Health and Safety Representative(s)

The Contractor shall ensure that Health and Safety Representative(s) is/are elected and trained to carry out his / her functions. The Safety Representative(s) must be democratically nominated, elected and appointed in writing. The Health and Safety Representative(s) shall carry out regular inspections, keep records and report to the supervisor to take appropriate action. The Safety Representative(s) shall attend Health and Safety Committee Meetings. The Health and Safety Representative shall be part of the team that will investigate incidents, accidents and non-conformances. The Safety Representative(s) must be (a) full time employee(s) who is/are acquainted with conditions and activities at that workplace or section thereof. The Safety Representatives must have Safety Representative training and must be capable of performing their duties.

2.12 Health and Safety Committee

Where two or more health and safety representatives have been appointed on site, the Contractor shall ensure that monthly health and safety meetings are held with such representatives and minutes are kept on record. Meetings must be organized and chaired by the Contractor's Health and Safety Committee Chairperson. Minutes of these meetings must be available for the employees of the contractor to refer to.

2.13 Medical Certificate of Fitness

The contractor must ensure that their employees on site have a valid medical certificate of fitness, specific to the construction work being performed, issued by an occupational health practitioner in the form of an Annexure 3 template (refer to the Construction Regulations 2014 on the Department of Labour website for a sample of this form).

2.14 Health and Safety Training

The Contractor shall quarterly conduct a training needs analysis to ascertain what health and safety training is required. A plan of action should be devised and forwarded to the Client for records. Once the identified people have attended the training, the Contractor must provide the Client with copies of certificates obtained.

2.14.1 Induction

No Contractor may allow or permit any employee or person to enter site unless they have undergone health and safety induction training pertaining to the hazards prevalent on site at the time of entry. This includes visitors to site. The Contractor must ensure that visitors to site have the necessary protective equipment (PPE). A copy of attendance registers of all employees who attend inductions shall be kept.

2.14.2 Awareness

The Contractor shall conduct periodic toolbox talks on site, weekly or before any hazardous work takes place. The talks shall cover the relevant activity and an attendance register must be signed by all attendees. This record of who attended and the content of the topic will be kept on the site health a safety file as evidence of training.

2.15 Competency

After the Contractor has identified the training to be conducted as part of the competency requirement, and based on Risk Assessment, he shall send the relevant persons on appropriate courses and keep certificates of training for reference. Familiarity with the Health and Safety Act and Regulations is an integral part of the definition of competence.

2.16 General Record Keeping

The Contractor shall keep and maintain Health and Safety records to demonstrate compliance with the Health and Safety Specification and the Occupational Health and Safety Act. The contractor shall ensure that all records of incidents, spot fines, training, etc. are kept on site. All documents shall be available for inspection by the Client, or the Department of Labour's Inspectors.

2.17 General Inspection, Monitoring and Reporting

The Contractor shall carry out inspections as required by this Health and Safety Specification, as well as by health and safety legislation.

2.18 Emergency Procedures

The Contractor shall submit a detailed Emergency Procedure for approval by the Client prior to commencement on site. The procedure shall detail the response plan including the following:

- List of key personnel;
- Details of emergency services;
- Actions or steps to be taken in the event of the emergency; and
- Information on hazardous materials / situations, including each material's hazardous potential impact or risk on the environment or human and measures to be taken in the event of an accident.

Emergency procedure(s) shall include, but shall not be limited to, fire, spills, accidents to employees, use of hazardous substances, dangers as a result of riot / service delivery protests / intimidation, etc. The Contractor shall advise the Client in writing of any on-site emergencies, together with a record of action taken, within 24 hours of the emergency occurring. A contact list of all service providers (Fire Department, Ambulance, Police, Medical and Hospital, etc.) must be maintained and available to site personnel.

2.19 First Aid Box and First Aid Equipment

The Contractor shall provide first aid box/es and appoint, in writing, First Aider(s) for this project in line with the results of the Contractor's risk assessment for the project, this health and safety specification as well as the provisions of the General Safety Regulations. The appointed First Aider(s) are to be sent for accredited first aid training before starting on site. Valid certificates are to be kept on site.

First Aid box/es must be adequately stocked at all time, accessible and be controlled by a qualified First Aider. If required by the Client, the Contractor shall have a stretcher on site to be used in case of a serious incident.

2.20 Accident / Incident Reporting and Investigation

The Contractor shall, in addition to the prescribed requirements of the Occupational Health and Safety Act and General Safety Regulations, investigate, record and report all Section 24 reportable incidents to the Client within 24 hours of the incident occurring. Incident investigations shall be conducted by the Contractor's appointed Accident Investigator – this Investigator must be a competent person or persons who have sufficient knowledge to carry out an investigation.

In the event of a fatality or a permanent disabling injury the Contractor must submit proof of reporting of incident to Department of Labour as well as proof of preventative measures to the Client. The Client reserves the right to conduct investigations into any incidents that they deem fit and the Contractor is required to provide full co-operation in this regard.

2.21 Hazards and Potential Situations

The Contractor shall immediately notify other Contractors of any hazardous or potentially hazardous situations, which may arise during performance of the activities.

2.22 Occupational Health and Safety Signage

The Contractor shall ascertain and provide adequate on-site health and safety signage. This signage shall include, but shall not be limited to, Hard Hat / Helmet Area; Safety Shoes to be worn on site; Dust Masks to be worn in areas where there might be exposure to excessive dust; Ear Plugs / Muffs to be worn where there might be noise exposure over 85 db; Gloves; Safety Goggles; Safety Harness, Workers in Excavation, traffic management, etc. The Contractor shall be responsible to maintain the quality and replacement of signage. Signage must comply with the requirements of SANS.

2.23 Management of Contractors by Principal Contractor

The Principal Contractor shall ensure that all contractors under his control are complying with the respective Health and Safety Plans, as well as Health and Safety Legislation.

All service providers to have a 37.2 Mandatory agreement, valid letter of good standing and must be inducted before being allowed to work on site. If the service provider is a Plant hire company, all operators must also be appointed with a competency.

2.24 Stacking of Materials

In addition to the provisions for the stacking of articles in the General Safety Regulations, 2003, the contractor must ensure that –

- a competent person is appointed in writing with the duty of supervising all stacking and storage on a construction site;
- adequate storage areas are provided;
- there are demarcated storage areas; and
- storage areas are kept neat and under control.

2.25 Housekeeping and General Safeguarding on Construction Sites

A contractor must, in addition to compliance with the Environmental Regulations for Workplaces, 1987, promulgated by Government Notice No. R. 2281 of 16 October 1987, ensure that suitable housekeeping is continuously implemented on each construction site, including-

- the proper storage of materials and equipment;
- the removal of scrap, waste and debris at appropriate intervals;
- ensuring that materials required for use, are not placed on the site so as to obstruct means of access to and egress from workplaces and passageways;
- ensuring that materials which are no longer required for use, do not accumulate on and are removed from the site at appropriate intervals;
- ensuring that waste and debris are not disposed of from a high place with a chute, unless the chute complies with the requirements set out in the regulations;
- ensuring that construction sites in built-up areas adjacent to a public way are suitably and sufficiently fenced off and provided with controlled access points to prevent the entry of unauthorized persons; and
- ensuring that a catch platform or net is erected above an entrance or passageway or above a place where persons work or pass under, or fencing off the danger area if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe in the case of danger or possibility of persons being struck by falling objects.

2.26 Construction Vehicles and Mobile Plant

A contractor must ensure that all construction vehicles and mobile plant-

- are of an acceptable design and construction;
- are maintained in a good working order;
- are used in accordance with their design and the intention for which they were designed, having due regard to safety and health;
- are operated by a person who-
 - has received appropriate training, is certified competent and in possession of proof of competency and is authorised in writing to operate those construction vehicles and mobile plant;
 - has a medical certificate of fitness to operate those construction vehicles and mobile plant, issued by an occupational health practitioner in the form of Annexure 3.
- have safe and suitable means of access and egress;
- are properly organized and controlled in any work situation by providing adequate signalling or other control arrangements to guard against the dangers relating to the movement of vehicles and plant, in order to ensure their continued safe operation;
- are prevented from falling into excavations, water or any other area lower than the working surface by installing adequate edge protection, which may include guard-rails and crash barriers;
- are fitted with structures designed to protect the operator from falling material or from being crushed should the vehicle or mobile plant overturn;
- are equipped with an acoustic warning device which can be activated by the operator;
- are equipped with an automatic acoustic reversing alarm; and
- are inspected by the authorised operator or driver on a daily basis using a relevant checklist prior to use and that the findings of such inspection are recorded in a register kept in the construction vehicle or mobile plant.

A contractor must ensure that-

- no person rides or is required or permitted to ride on a construction vehicle or mobile plant otherwise than in a safe place provided thereon for that purpose;
- every construction site is organized in such a way that, as far as is reasonably practicable, pedestrians and vehicles can move safely and without risks to health;
- the traffic routes are suitable for the persons, construction vehicles or mobile plant using them, are sufficient in number, in suitable positions and of sufficient size;
- every traffic route is, where necessary, indicated by suitable signs;
- all construction vehicles and mobile plant left unattended at night, adjacent to a public road in normal use or adjacent to construction areas where work is in progress, have appropriate lights or reflectors, or barricades equipped with appropriate lights or reflectors, in order to identify the location of the vehicles or plant;
- all construction vehicles or mobile plant when not in use, have buckets, booms or similar appendages, fully lowered or blocked, controls in a neutral position, motors stopped, wheels chocked, brakes set and ignition secured;
- whenever visibility conditions warrant additional lighting, all mobile plant are equipped with at least two headlights and two taillights when in operation;
- tools, material and equipment are secured and separated by means of a physical barrier in order to prevent movement when transported in the same compartment with employees;
- vehicles used to transport employees have seats firmly secured and adequate for the number of employees to be carried; and
- all construction vehicles or mobile plant travelling, working or operating on public roads comply with the requirements of the National Road Traffic Act, 1996.
- that all plant and vehicles are fitted with amber rotating beacons and reverse alarms.

All service providers to have a 37.2 Mandatory agreement, valid letter of good standing and must be inducted before being allowed to work on site. If the service provider is a Plant hire company, all operators must also be appointed with a valid competency.

2.27 Electrical Installations and Machinery on Construction Sites

A contractor must, in addition to compliance with the Electrical Installation Regulations and the Electrical Machinery Regulations, ensure that –

- before construction commences and during the progress thereof, adequate steps are taken to ascertain the presence of and guard against danger to workers from any electrical cable or apparatus which is under, over or on the site;
- all parts of electrical installations and machinery are of adequate strength to withstand the working conditions on construction sites;
- the control of all temporary electrical installations on the construction site is designated to a competent person who has been appointed in writing for that purpose;
- all temporary electrical installations used by the contractor are inspected at least once a week by a competent person and the inspection findings are recorded in a register kept on the construction site; and
- all electrical machinery is inspected by the authorized operator or user on a daily basis using a relevant checklist prior to use and the inspection findings are recorded in a register kept on the construction site.

2.28 Use and Temporary Storage of Flammable Liquids on Construction Sites

A contractor must, in addition to compliance with the provisions for the use and storage of flammable liquids in the General Safety Regulations, 2003, ensure that –

- where flammable liquids are being used, applied or stored at the workplace concerned, it is done in a manner that does not cause a fire or explosion hazard, and that the workplace is effectively ventilated;
- no person smokes in any place in which flammable liquid is used or stored, and the contractor must affix a suitable and conspicuous notice at all entrances to any such areas prohibiting such smoking;
- an adequate amount of efficient fire-fighting equipment is installed in suitable locations around the flammable liquids store with the recognized symbolic signs;
- only the quantity of flammable liquid needed for work on one day is taken out of the store for use;
- all containers holding flammable liquids are kept tightly closed when not in actual use and, after their contents have been used up, are removed from the construction site and safely disposed of;
- where flammable liquids are decanted, the metal containers are bonded and earthed; and
- no flammable material, including cotton waste, paper, cleaning rags or similar material is stored together with flammable liquids

2.29 Water environments

A contractor must ensure that where construction work is done over or in close proximity to water, provision is made for –

- preventing persons from falling into water; and
- the rescuing of persons in danger of drowning.

A contractor must ensure that where a person is exposed to the risk of drowning by falling into the water, the person is provided with and wears a lifejacket.

2.30 Fire precautions on Construction Sites

A contractor must, in addition to compliance with the Environmental Regulations for Workplaces, 1987, ensure that –

- all appropriate measures are taken to avoid the risk of fire;
- sufficient and suitable storage is provided for flammable liquids, solids and gases;
- smoking is prohibited and notices in this regard are prominently displayed in all places containing readily combustible or flammable materials;
- in confined spaces and other places in which flammable gases, vapours or dust can cause danger-
 - only suitably protected electrical installations and equipment, including portable lights, are used;
 - there are no flames or similar means of ignition;
 - there are conspicuous notices prohibiting smoking;
 - oily rags, waste and other substances liable to ignite are without delay removed to a safe place; and

- adequate ventilation is provided;
- combustible materials do not accumulate on the construction site;
- welding, flame cutting and other hot work are done only after appropriate precautions have been taken to reduce the risk of fire;
- suitable and sufficient fire-extinguishing equipment is placed at strategic locations or as may be recommended by the Fire Chief or local authority concerned, and that such equipment is maintained in a good working order;
- the fire equipment contemplated above is inspected by a competent person, who has been appointed in writing for that purpose, in the manner indicated by the manufacturer thereof;
- a sufficient number of workers are trained in the use of fire- extinguishing equipment;
- where appropriate, suitable visual signs are provided to clearly indicate the escape routes in the case of a fire;
- the means of escape is kept clear at all times;
- there is an effective evacuation plan providing for all -
 - persons to be evacuated speedily without panic;
 - persons to be accounted for; and
 - plant and processes to be shut down; and
- a siren is installed and sounded in the event of a fire.

2.31 Construction Employees' Facilities

A contractor must, in terms of the Construction Regulations 2014, provide:

- Shower facilities after consultation with the employees or employee's representatives, or at least one shower facility for every 15 persons;
- at least one sanitary facility for each sex and for every 30 workers;
- changing facilities for each sex;
- and sheltered eating area.

A contractor must provide reasonable and suitable living accommodation for the workers at construction sites who are far removed from their homes and where adequate transportation between the site and their homes, or other suitable living accommodation, is not available.

2.32 Fall protection

The Contractor must:

- designate a competent person to be responsible for the preparation of a fall protection plan
- ensure that the fall protection plan contemplated above is implemented, amended where and when necessary and maintained as required; and
- take steps to ensure continued adherence to the fall protection plan.

A fall protection plan contemplated above must include-

- a risk assessment of all work carried out from a fall risk position and the procedures and methods used to address all the risks identified per location;
- the processes for the evaluation of the employees' medical fitness necessary to work at a fall risk position and the records thereof;
- a programme for the training of employees working from a fall risk position and the records thereof;
- the procedure addressing the inspection, testing and maintenance of all fall protection equipment; and
- a rescue plan detailing the necessary procedure, personnel and suitable equipment required to affect a rescue of a person in the event of a fall incident to ensure that the rescue procedure is implemented immediately following the incident.

A contractor must ensure that a construction manager appointed under regulation 8(1) is in possession of the most recently updated version of the fall protection plan.

A contractor must ensure that all unprotected openings in floors, edges, slabs, hatchways and stairways are adequately guarded, fenced or barricaded or that similar means are used to safeguard any person from falling through such openings;

Also that no person is required to work in a fall risk position, unless such work is performed safely as contemplated in above and fall prevention and fall arrest equipment are approved as suitable and of sufficient strength for the purpose for which they are being used, having regard to the work being carried out and the load, including any person, they are intended to bear; and securely attached to a structure or plant, and the structure of plant and the means of attachment thereto are suitable and of sufficient strength and stability for the purpose of safely supporting the equipment and person who could fall, and fall arrest equipment is used only where it is not reasonably practicable to use fall prevention equipment.

2.33 Temporary works

A contractor must appoint a temporary works designer in writing to design, inspect and approve the erected temporary works on site before use.

A contractor must ensure that all temporary works operations are carried out under the supervision of a competent person who has been appointed in writing for that purpose.

A contractor must ensure that-

- all temporary works structures are adequately erected, supported, braced and maintained by a competent person so that they are capable of supporting all anticipated vertical and lateral loads that may be applied to them, and that no loads are imposed onto the structure that the structure is not designed to withstand;
- all temporary works structures are done with close reference to the structural design drawings, and where any uncertainty exists the structural designer should be consulted;
- detailed activity specific drawings pertaining to the design of temporary works structures are kept on the site and are available on request to an inspector, other contractors, the Client, the Client's Safety Agent or any employee;
- all persons required to erect, move or dismantle temporary works structures are provided with adequate training and instruction to perform those operations safely;
- all equipment used in temporary works structure are carefully examined and checked for suitability by a competent person, before being used;
- all temporary works structures are inspected by a competent person immediately before, during and after the placement of concrete, after inclement weather or any other imposed load and at least on a daily basis until the temporary works structure has been removed and the results have been recorded in a register and made available on site;
- no person may cast concrete, until authorization in writing has been given by the competent person contemplated above;
- if, after erection, any temporary works structure is found to be damaged or weakened to such a degree that its integrity is affected, it is safely removed or reinforced immediately;
- adequate precautionary measures are taken in order to-
 - secure any deck panels against displacement; and
 - prevent any person from slipping on temporary works due to the application of release agents;
- as far as is reasonably practicable, the health of any person is not affected through the use of solvents or oils or any other similar substances;
- upon casting concrete, the temporary works structure is left in place until the concrete has acquired sufficient strength to safely support its own weight and any imposed load, and is not removed until authorization in writing has been given by the competent person
- the foundation conditions are suitable to withstand the loads caused by the temporary works structure and any imposed load in accordance with the temporary works design.
- provision is made for safe access by means of secured ladders or staircases for all work to be carried out above the foundation bearing level;
- a temporary works drawing or any other relevant document includes construction sequences and methods statements;
- the temporary works designer has been issued with the latest revision of any relevant structural design drawing;

- a temporary works design and drawing is used only for its intended purpose and for a specific portion of a construction site; and
- the temporary works drawings are approved by the temporary works designer before the erection of any temporary works.

No contractor may use a temporary works design and drawing for any work other than its intended purpose.

2.34 Excavation

A contractor must-

- ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing for that purpose; and
- evaluate, as far as is reasonably practicable, the stability of the ground before excavation work begins.

A contractor who performs excavation work-

- must take reasonable and sufficient steps in order 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;
- may not require or permit any person to work in an excavation which has not been adequately shored or braced: Provided that shoring and bracing may not be necessary where-
 - the sides of the excavation are sloped to at least the maximum angle of repose measured relative to the horizontal plane; or
 - such an excavation is in stable material: Provided that-
 - permission has been given in writing by the appointed competent person contemplated above 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 is decisive and such a decision must be noted in writing and signed by both the competent person and the professional engineer or technologist, as the case may be;
- must take steps to ensure that the shoring or bracing contemplated above is designed and constructed in a manner that renders it strong enough to support the sides of the excavation in question;
- must ensure that no load, material, plant or equipment is placed or moved near the edge of any excavation where it may cause its collapse and consequently endangers 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;
- must ensure that where the stability of an adjoining building, structure or road is likely to be affected by the making of an excavation, steps are taken to ensure the stability of such building, structure or road and the safety of persons;
- must cause convenient and safe means of access to be provided to every excavation in which persons are required to work, and such access may not be further than six metres from the point where any worker within the excavation is working;
- must 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 must before the commencement of excavation work that may affect any such service, take the steps that are necessary to render the circumstances safe for all persons involved;
- must ensure that every excavation, including all bracing and shoring, is inspected-
 - daily, prior to the commencement of each shift;
 - after every blasting operation;
 - after an unexpected fall of ground;
 - after damage to supports; and
 - after rain,

by the competent person, in order to ensure the safety of the excavation and of persons, and those results must be recorded in a register kept on site and made available on request to an inspector, the Client, the Client's Safety Agent, any other contractor or any employee;

- must 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 –
 - adequately protected by a barrier or fence of at least one metre in height and as close to the excavation as is practicable; and
 - provided with warning illuminates or any other clearly visible boundary indicators at night or when visibility is poor, or have resort to any other suitable and sufficient precautionary measure where this is not practicable;
- must ensure that all precautionary measures stipulated for confined spaces as determined in the General Safety Regulations, 2003, are complied with by any person entering any excavation;
- must, where the excavation work involves the use of explosives, appoint a competent person in the use of explosives for excavation, and must ensure that a method statement is developed by that person in accordance with the applicable explosives legislation; and
- must cause warning signs to be positioned next to an excavation within which or where persons are working or carrying out inspections or tests.

2.35 Demolition Work

A contractor must appoint a competent person in writing to supervise and control all demolition work on site.

A contractor must ensure that before any demolition work is carried out, and in order to ascertain the method of demolition to be used, a detailed structural engineering survey of the structure to be demolished is carried out by a competent person and that a method statement on the procedure to be followed in demolishing the structure is developed by that person.

During a demolition, the competent person contemplated in above must check the structural integrity of the structure at intervals determined in the method statement contemplated in above, in order to avoid any premature collapses.

A contractor who performs demolition work must with regard to a structure being demolished, take steps to ensure that-

- no floor, roof or other part of the structure is overloaded with debris or material in a manner which would render it unsafe;
- all reasonably practicable precautions are taken to avoid the danger of the structure collapsing when any part of the framing of a framed or partly framed building is removed, or when reinforced concrete is cut; and
- precautions are taken in the form of adequate shoring or other means that may be necessary to prevent the accidental collapse of any part of the structure or adjoining structure;
- ensure that no person works under overhanging material or a structure which has not been adequately supported, shored or braced;
- ensure that any support, shoring or bracing contemplated above, is designed and constructed so that it is strong enough to support the overhanging material;
- where the stability of an adjoining building, structure or road is likely to be affected by demolition work on a structure, take steps to ensure the stability of such structure or road and the safety of persons;
- 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 must before the commencement of demolition work that may affect any such service, take the steps that are necessary to render circumstances safe for all persons involved;
- cause every stairwell used and every floor where work is being performed in a building being demolished, to be adequately illuminated by either natural or artificial means;
- cause convenient and safe means of access to be provided to every part of the demolition site in which persons are required to work; and
- erect a catch platform or net above an entrance or passageway or above a place where persons work or pass under, or fence off the danger areas if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe where there is a danger or possibility of persons being struck by falling objects.

A contractor must ensure that no material is dropped to any point, which falls outside the exterior walls of the structure, unless the area is effectively protected.

No person may dispose of waste and debris from a high place by a chute unless the chute-

- is adequately constructed and rigidly fastened;
- if inclined at an angle of more than 45 degrees to the horizontal, is enclosed on its four sides;
- if of the open type, is inclined at an angle of less than 45 degrees to the horizontal;
- where necessary, is fitted with a gate at the bottom end to control the flow of material; and discharges into a container or an enclosed area surrounded by barriers.

A contractor must ensure that every chute used to dispose of rubble is designed in such a manner that rubble does not free-fall and that the chute is strong enough to withstand the force of the debris travelling along the chute.

A contractor must ensure that no equipment is used on floors or working surfaces, unless such floors or surfaces are of sufficient strength to support the imposed loads.

Where a risk assessment indicates the presence of asbestos, a contractor must ensure that all asbestos related work is conducted in accordance with the Asbestos Regulations 2001.

Where a risk assessment indicates the presence of lead, a contractor must ensure that all lead related work is conducted in accordance with the Lead Regulations, 2001.

Where the demolition work involves the use of explosives, a method statement must be developed in accordance with the applicable explosives legislation, by an appointed person who is competent in the use of explosives for demolition work and all persons involved in the demolition works must adhere to demolition procedures issued by the appointed person.

A contractor must ensure that all waste and debris are as soon as reasonably practicable removed and disposed of from the site in accordance with the applicable legislation.

2.36 Tunneling

No person may enter a tunnel which has a height dimension of less than 800 mm.

2.37 Scaffolding

A contractor must appoint a competent person in writing who must ensure that all scaffolding work operations are carried out under his or her supervision and that all scaffold erectors, team leaders and inspectors are competent to carry out their work.

A contractor using access scaffolding must ensure that such scaffolding, when in use, complies with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act and SANS 10085. Scaffold must be fully boarded and access to the scaffold should be from the inside ONLY, signage must be displayed to indicate if the scaffold is safe or unsafe to use. Scaffold higher than 60 metres must be designed by an engineer.

2.38 Bulk mixing plant

A contractor must ensure that the operation of a bulk mixing plant is supervised by a competent person who has been appointed in writing and is –

- aware of all the dangers involved in the operation thereof; and
- conversant with the precautionary measures to be taken in the interest of health and safety.

No person supervising or operating a bulk mixing plant may authorize any other person to operate the plant, unless that person is competent to operate a bulk mixing plant.

A contractor must ensure that the placement and erection of a bulk mixing plant complies with the requirements set out by the manufacturer and that such plant is erected as designed.

A contractor must ensure that all devices to start and stop a bulk mixing plant are provided and that those devices are placed in an easily accessible position and constructed in a manner to prevent accidental starting.

A contractor must ensure that the machinery and plant selected is suitable for the mixing task and that all dangerous moving parts of a mixer are placed beyond the reach of persons by means of doors, covers or other similar means.

No person may remove or modify any guard or safety equipment relating to a bulk mixing plant, unless authorized to do so by the appointed person.

A contractor must ensure that all precautionary measures stipulated for confined spaces as determined in the General Safety Regulations, 2003, are complied with when entering any silo.

A contractor must ensure that a record is kept of all repairs or maintenance to a bulk mixing plant and that the record is available on site to an inspector, the Client, the Client's Safety Agent or any employee.

2.39 Hazardous Chemical Substances (HCS)

In addition to the requirements in the HCS Regulations, the principal contractor must provide proof in the Health and Safety Plan that:

- Material Safety Data Sheets (MSDS's) of the relevant materials / hazardous chemical substances are available prior to use by the contractor. All MSDS's shall be available for inspection by the agent at all times.
- Risk assessments are done at least once every 6 months.
- Exposure monitoring is done according to OESSM and by an Approved Inspection Authority (AIA) and that the medical surveillance programme is based on the outcomes of the exposure monitoring.
- How the relevant HCS's are being/going to be controlled by referring to:
 - Limiting the amount of HCS
 - Limiting the number of employees
 - Limiting the period of exposure
 - Substituting the HCS
 - Using engineering controls
 - Using appropriate written work procedures
- The correct PPE is being used.
- HCS are stored and transported according to SABS 072 and 0228.
- Training with regards to these regulations was given.

The Health and Safety plan should make reference to the disposal of hazardous waste on classified sites and the location thereof (where applicable).

The First Aider must be made aware of the MSDS and trained in how to treat HCS incidents appropriately.

2.40 Noise Induced Hearing Loss

Where noise is identified as a hazard the requirements of the NIHL regulations must be complied with and the following must be included / referred to in the Health and Safety Plan:

- Proof of training with regards to these regulations.
- Risk assessment done within 1 month of commencement of work.
- That monitoring carried out by an AIA and done according to SABS 083.
- Medical surveillance programme established and maintained for the necessary employees.
- Control of noise by referring to:

- Engineering methods considered
- Admin control (number of employees exposed) considered
- Personal protective equipment considered/decided on
- Describe how records are going to be kept for 40 years.

2.41 Personal Protective Equipment (PPE)

The Contractor shall carry out PPE or clothing needs analysis in accordance with his risk assessment, to determine the necessary PPE or clothing to be used during construction. The Contractor shall make provision to keep adequate quantities of appropriate, SABS approved PPE or clothing on site at all times.

The Contractor must ensure that personnel are trained in the correct use of PPE to be used.

The Contractor must ensure that lost, stolen, worn out or damaged PPE is replaced as required and receipt signed for by employees on site.

2.42 Asbestos

The Contractor shall ensure that all asbestos work is done only by registered "Asbestos Contractor" as prescribed by the Asbestos Regulations, 2001. The Contractor shall submit an Asbestos Certificate from Department of Labour which refer to the prescribed requirements. The Contractor shall notify The Client if there are any asbestos materials to be used on site.

Besides the requirements listed above, should asbestos be identified as a hazard at the workplace, the following must be included in the health and safety plan or as soon as its available:

- Notification to the Provincial Director in writing, prior to commencement of asbestos work.
- Proof of a structured medical surveillance programme, drawn up by an occupational medicine practitioner.
- Proof that an initial health evaluation was carried out by an occupational health practitioner within 14 days after commencement of work.
- Copies of the results of all assessments, exposure monitoring and the written inventory of the location of the asbestos at the workplace.
- Only proof that medical surveillance has been conducted and not the actual records itself since these areas of a confidential nature.
- How records are going to be kept safe for the stipulated period of 40 years.
- Proof that asbestos demolition (if applicable) is going to be done by a registered asbestos contractor and provide proof that a plan of work for such demolition is submitted to an Approved Asbestos Inspection Authority 30 days prior to commencement of the demolition.
- Provide proof that the plan of work was approved by the asbestos AIA and submitted to the provincial director 14 days prior to commencement of demolition work together with the approved standardized procedures for demolition work.

2.43 Pressure Vessels (Including Gas Bottles)

The Contractor shall comply with Pressure Vessel Regulations, including:

- Providing competency and awareness training to the operators;
- Providing PPE or clothing;
- Providing and maintain appropriate signage in areas where pressure vessels are used, as applicable;
- Inspect equipment regularly and keep records of inspections;
- Providing appropriate fire fighting equipment (Fire Extinguishers).

2.44 Fire Extinguishers and Fire Fighting Equipment

The Contractor shall provide adequate, regularly serviced fire extinguishers located at strategic points on site. The Contractor shall keep spare serviced portable fire extinguishers. The Contractor shall have adequate persons trained or competent to use the Fire Fighting Equipment.

Safety signage shall be posted up in all areas where fire extinguishers are located.

2.45 Lifting Machinery and Tackle

The Contractor shall ensure that lifting machinery and tackle is inspected before use and on a monthly basis. The Contractor shall have lifting machinery and tackle inspector who will inspect the equipment at intervals required by the Driven Machinery Regulations, taking into account that:

- All lifting machinery and tackle have a safe working load clearly indicated;
- Regular inspection and servicing is carried out;
- Records are kept of inspections and of service certificates;
- Thorough examinations are carried out by competent personnel at the frequencies required by legislation
- There is proper supervision in terms of guiding the loads which includes a trained banks man to direct and check lifting tackle if it is safe for use.

2.46 Ladders and Ladder work

The Contractor shall ensure that all ladders are numbered and inspected regularly keeping record of inspections. It should be noted that Aluminium ladders are preferred to wooden ladders.

2.47 General Machinery

The Contractor shall comply with the Driven Machinery Regulations, which include inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE or clothing and training those that use machinery and enforce compliance.

2.48 Portable Electrical Tools

The Contractor shall ensure that use and storage of all explosive actuating fastening devices and portable electrical tools are in compliance with relevant legislation.

The Contractor shall consider that:

- A competent person undertakes routine inspections;
- Only authorised persons use the tools;
- There are safe working procedures applied;
- Awareness training is carried out and compliance is enforced at all times; and
- PPE and clothing is provided and maintained.

2.49 High Voltage Electrical Equipment

The Contractor shall ensure that, where the work is under, on or near high-voltage electrical equipment the Electrical Installation Regulations, together with safety instructions (Regulations of the Owner of the Equipment) are complied with. Such equipment includes:

- Eskom and the Local Authority equipment
- The Contractor's own power supply; and
- Electrical equipment being installed but not yet taken over from a Contractor by The Client.

2.50 Public Health and Safety

The Contractor shall ensure that each person working on or visiting a site, and the surrounding community, shall be made aware of the dangers likely to arise from on site activities and the precautions to be observed to avoid or minimize those dangers. Appropriate health and safety signage shall be posted at all times.

2.51 Night Work

The Contractor shall not undertake any night work without prior arrangement and a written permit from the Client. The Contractor shall ensure that adequate lighting is provided for all night work and failure to do so shall result in work being stopped.

2.52 Environmental Conditions and Flora and Fauna

The Contractor must be mindful of adverse weather conditions upon the health and safety of the workforce. This includes inclement weather, strong wind, heat stress, extreme cold, etc. The Contractor's risk assessment process must take into account the risks associated with such weather conditions. The same is true when working in an environment where there is a risk to employees' health and safety from presence of poisonous flora, or wildlife (including bees, snakes, etc). The Contractor's risk assessment process must take these risks into account.

2.55 Occupational Health

Exposure of workers to occupational health hazards and risks are very common in any work environment, especially in construction. Occupational health hazards and risks exposure is a major problem and all Contractors are to ensure that proper health and hygiene measures are put in place to prevent exposure to these hazards and risks.

The occupational hazards and risks may enter the body in three ways:

- Inhalation through breathing e.g. cement dust;
- Ingestion through swallowing maybe through food intake;
- Absorption through the skin (pores) e.g. painting or use of thinners.

The contractor is required to ensure that all his personnel are medically fit prior to being allowed onto the work site.

All Contractors should ensure that Occupational Hygiene surveys are conducted as per the Occupational Health and Safety Act to ensure employees are not exposed to hazards. Risk Assessments should identify areas where surveys are to be conducted.

2.56 Material Hoists

A contractor must ensure that every material hoist and its tower have been constructed in accordance with the generally accepted technical standards and are strong enough and free from defects.

A contractor must ensure that the tower of every material hoist is —

- erected on firm foundations and secured to the structure or braced by steel wire guy ropes, and extends to a distance above the highest landing to allow a clear and unobstructed space of at least 900 mm for over travel;
- enclosed on all sides at the bottom, and at all floors where persons are at risk of being struck by moving parts of the hoist, except on the side or sides giving access to the material hoist, with walls or other effective means to a height of at least 2100 mm from the ground or floor level; and
- provided with a door or gate at least 2100mm in height at each landing, and that door or gate must be kept closed except when the platform is at rest at such a landing.

A contractor must cause-

- the platform of every material hoist to be designed in a manner that it safely contains the loads being conveyed and that the combined mass of the platform and the load does not exceed the designed lifting capacity of the hoist;
- the hoisting rope of every material hoist which has a remote winch to be effectively protected from damage by any external cause to the portion of the hoisting rope between the winch and the tower of the hoist; and
- every material hoist to be provided with an efficient brake capable of holding the platform with its maximum load in any position when power is not being supplied to the hoisting machinery.

No contractor may require or permit trucks, barrows or material to be conveyed on the platform of a material hoist and no person may so convey trucks, barrows or material unless those articles are secured or contained in a manner that displacement thereof cannot take place during movement.

A contractor must cause a notice, indicating the maximum mass load which may be carried at any one time and the prohibition of persons from riding on the platform of the material hoist, to be affixed around the base of the tower and at each landing.

A contractor of a material hoist may not require or permit any person to operate a hoist, unless the person is competent in the operation of that hoist.
No contractor may require or permit any person to ride on a material hoist.

A contractor must ensure that every material hoist-

- is inspected on daily basis by a competent person appointed in writing by the contractor and such competent person must have the experience pertaining to the erection and maintenance of material hoists or similar machinery;
- inspection contemplated above, includes the determination of the serviceability of the entire material hoist, including guides, ropes and their connections, drums, sheaves or pulleys and all safety devices;
- inspection results are entered and signed in a record book by a competent person, which book must be kept on the premises for that purpose;
- is properly maintained and the maintenance records in this regard are kept on site.

2.57 Explosive Actuated Fastening Device

No contractor may use or permit any person to use an explosive actuated fastening device, unless-

- the user is provided with and uses suitable protective equipment;
- the user is trained in the operation, maintenance and use of such a device
- the explosive actuated fastening device is provided with a protective guard around the muzzle end, which effectively confines any flying fragments or particles; and
- the firing mechanism is so designed that the explosive actuated fastening device, will not function unless-
 - it is held against the surface with a force of at least twice its weight; and
 - the angle of inclination of the barrel to the work surface is not more than 15 degrees from a right angle.

A contractor must ensure that-

- only cartridges suited for the relevant explosive actuated fastening device, and the work to be performed, are used;
- an explosive actuated fastening device is cleaned and examined daily before use and as often as may be necessary for its safe operation by a competent person who has been appointed for that purpose;
- the safety devices of an explosive actuated fastening device are in good working order prior to

- use;
- when not in use, an explosive actuated fastening device and its cartridges are locked up in a safe place, which is inaccessible to unauthorized persons;
- an explosive actuated fastening device is not stored in a loaded condition;
- a warning notice is displayed in a conspicuous manner in the immediate vicinity wherever an explosive actuated fastening device is used; and
- the issuing and collection of cartridges and nails or studs of an explosive actuated fastening device are-
 - controlled and done in writing by a person having been appointed in writing for that purpose; and
 - recorded in a register by a competent person and that the recipient has accordingly signed for the receipt thereof as well as the returning of any spent and unspent cartridges.

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Both the Client and the Contractor have a duty in terms of health and safety legislation to do all that is reasonably practicable to make members of the public and others being affected by the construction processes aware of possible risks and put preventative measures in place to mitigate the risks. The public and/or visitors shall go through a brief health and safety induction detailing hazards and risks they may be exposed to and what measures are in place to control these hazards and risks.

OTHER HEALTH AND SAFETY SPECIFICATION REQUIREMENTS

The contractor must be aware of the following additional requirements:

What	When	Output
Awareness training (Toolbox Talks)	At least fortnightly and before hazardous work is carried out	Attendance Register
Health and Safety Committee Meetings	Monthly	Minutes signed by the employer (Contractor) covering: a) Health and Safety Representative Checklist
Health and Safety Reports	Monthly	Report covering: a) Incidents/Accidents and Investigations b) Non-conformance c) Health and Safety Training d) HIRA Updates e) Internal and External Audits
General Inspections	As per Health and Safety Specification and OHSA	Report on Health and Safety Specification and OHSA compliance: a) Scaffolding b) Lifting Machinery c) Excavation
General Inspections	Monthly	Covering: a) Fire fighting Equipment b) Portable Electrical Equipment c) Ladders
Record keeping	Ongoing	Covering: a) General complaints b) Fines c) General incidents d) MSDS e) Surveillance Medicals f) Inspection Register g) Dept of Labour Notices
Permits	Before commencement with certain activities	As stipulated by the Health and Safety Specification and the OHSA / Construction Regulations

Key:

OHSA – Occupational Health and Safety Act, 1993

ANNEXURE A

The Contractor shall submit the info below in an Annexure 2 prior to construction commencement.

Item No.	Health and Safety Specification Requirement	OHSA Requirement	Submission date
1.	Notification of Intention to Commence Construction	Construction Regulations 2014	At least 7 days before commencement on site
2.	Construction Work Permit	Construction Regulations 2014 (only with certain size and duration projects)	At least 30 days prior to project commencement
3.	Assignment of Responsible Person to Manage Building Work via Health and Safety Organogram	Construction Regulations 2014	Before commencement on site
4.	Competency for Health and Safety Positions	Client / Safety Agent requirement	Before commencement on site
5.	Compensation of Occupational Injuries and Diseases Act (COIDA) 130 of 1993	COIDA Requirement	Before commencement on site
6.	Occupational Health and Safety Policy	Client / Safety Agent requirement	Before commencement on site
7.	Risk Assessment, Safety Plan and Fall Protection Plan, Demolition Method Statement	Client / Safety Agent requirement	Before construction work commences

ANNEXURE B - The contractor shall make the following appointments, as required:

Chief Executive Officer (OSHACT 16(1))
Contract Director/Manager (OSHACT 16(2))
Construction Manager (CR 8(1))
Construction Supervisor (CR 8(7))
Assistant Construction Supervisor (CR 8(8))
Construction Safety Officer (CR 8(5))
Safety Representative (where > 20 employees on site)
Temporary work Designer (CR 12(1))
Temporary work Supervisor (CR12(2))
Construction risk assessor (CR 9(1))
Excavation Supervisor (CR13(1)(a))
Scaffold Supervisor (CR16(1))
Bulk Mixing Plant Supervisor (CR20(1))
Bulk Mixing Plant Operator (CR20(2))
Controller of Explosive Actuated Fastening Devices Nails, Cartridges or Studs Issue and Collection (CR21(2)(g)(1))
Construction Vehicle and Mobile Plant Operator (CR23(1)(d)(i))
Controller of Temporary Electrical Installations (CR24(c))
Stacking Supervisor (CR28(a))
Fire Extinguishing Equipment Inspector (CR29(h))
Fall Protection Plan Developer (CR 10(1)(a))
Incident Investigator (OSHACT 9(2))

BASELINE RISK ASSESSMENT FOR PROJECT

Irrespective of the risk presented on site, it will be ensured that sufficient supervision is in place on site, that personnel are trained in accordance with legislation, including the requirement for site specific inductions on site to inform personnel on site of the risks and hazards applicable to the site. Site supervision is responsible for ensuring that the control measures required below are implemented on site.

	HAZARD	RISK	MINIMUM CONTROL MEASURES
1.	Asbestos Cement Pipes	Release of asbestos fibres	• Ensure safe access and egress is provided • Erect physical barriers to prevent entry by unauthorised persons, as applicable • damp down exposed area to contain fibre release • Personnel involved to wear asbestos respiratory protection • Exclusion zone may be required • Only Department of Labour registered asbestos contractors may work with asbestos, and strictly in accordance with the requirements of the Asbestos Regulations.
2.	Asbestos Cement Removal	Personnel falling from height Debris falling from height Falls of equipment or tools Release of asbestos fibres	• Notice to be erected informing personnel of fragile roofs, as applicable • Ensure safe access and egress is provided • Erect physical barriers to prevent entry by unauthorised persons and falls from height, as applicable • Roof sheets to be sprayed with water to prevent fibre release, where feasible • Take extreme care to remove sheets whole. Where breakage occurs damp down exposed area to contain fibre release • Personnel involved to wear asbestos respiratory protection • Exclusion zone may be required under area of sheet removal to prevent injury from falls of material from height • Only Department of Labour registered asbestos contractors may work with asbestos, and strictly in accordance with the requirements of the Asbestos Regulations.
3.	Asphalting	Fire Burns to skin Skin disease	• Suitable fire extinguisher to be in place prior to commencement of works • Ensure competent personnel using materials and competent and trained machinery/equipment operators • Ensure there is a safe place of work at all times • Ensure all personnel wear suitable and sufficient personal protective equipment (PPE) including safety boots, reflective vests and gloves • Health and Safety data sheet required
4.	Bricklaying	Caustic contamination with mortar Contact with sharp bladed tools	• Use only trained personnel • Safe means of access to be provided • Safe/Suitable working platform required where working at height • PPE for mortar to include gloves where practicable and goggles/ masks where there is a risk of contamination
5.	Compacting and Filling	Contact with tipping materials Contact with moving plant Vehicles/personnel falling into excavations Contact with underground services	• Trained banksman to control vehicles movement • Only trained personnel use plant • Personal Protective Equipment to be worn • Personnel to stand clear as materials are being tipped • Use stop blocks and signs to warn vehicles of excavations, where applicable • Stand clear of plant whilst materials are being compacted • Establish position of underground services and protect services from damage
6.	Compactor Operations	Crushing of feet	• Only trained and competent personnel to use the machine



			Ensure operative wears steel toe cap shoes or boots at all times
7.	Concrete Pumping	Sprains and strains Hit by pump Concrete burns Collapse/bursting of structure	- Personnel to be in clear vision of pump operator - Trained pump operator - Personnel working with the concrete to wear the appropriate personal protective equipment to protect against cement burns - Design of structure being loaded to be approved by competent designer and inspected before, during and after loading - Pump to be well maintained
8.	Cutting Off Disc	Noise Cuts from machine Fire (particularly at refuelling) Flying debris Blade shattering Contamination by fume created or exhaust fume	- Use competent personnel. - Hot works control- fire extinguisher, fire watchman. (Permit may be required) - PPE to include gloves, eye protection, hearing protection - Solid working position. - Clear working area - Correct grade of blade must be used. - Good ventilation to be provided (forced if necessary). - Changing of wheels to be by competent persons only - Cut off discs must not be used for grinding (grinding disc thicker) - Bystanders to wear hearing protection, as applicable
9.	Electrical Commissioning	Electric shock	- Personnel to comply with permits to work issued by Client - Personal protective equipment to be worn by employees to prevent electric shock - First aid treatment to be readily available - Only competent and trained persons may decommission or commission electrical equipment
10.	Electric Tools and Electrical Installations	Electric shock Fire	- Electric tools and installations to be in good condition - Inspect electric tools before use - Do not use electric tools in wet/damp conditions - Use personal protective equipment such as insulated gloves - Electrical installations register to be maintained, inspected by competent person
11.	Excavations (Working in and around)	Toxic fumes Collapse of trench walls/trapping Falling into excavation Collapse of adjacent structures	- Deep excavations / monitor air for toxic fumes - Prevent collapse by battering back sides to a safe angle or install temporary support - Protect vehicles from falling into excavations – provide barriers, signage, etc. as necessary - Beware of undermining of other structures (e.g. buildings, scaffolds) - Record excavation inspections by competent person on daily basis - Provide suitable means of access/egress in case of emergency. - Excavations formed by explosives must be accompanied by method statement approved by Client
12.	Explosive Actuated Fastening Devices	Noise Being struck by cartridge or fixing	- Operators to be trained, competent and wear appropriate protective equipment, e.g. goggles, gloves, ear defenders, head protection. - Cartridge gun to be in good condition, inspected for damage and faults regularly and results entered into register - Used and unused cartridges and cartridge gun should be kept in secure place when not in use, maintain register for return and issue.
13.	Fire	Injuries to workers, pedestrians, residents, road users, damage to property through fire	- No littering on site which could become fire hazard, maintain site in clean condition. - No fires to be lit on site. Have a working fire extinguisher at hand at all times.



			- No smoking or naked flame near flammable substances or in unauthorised areas - Ensure proper storage/use of Petrol/diesel/flammable substances – post warning notices
14.	Flammable Liquids and Gases (Use of)	Fire Explosion	- No littering on site which could become fire hazard, maintain site in clean condition. - Have a working fire extinguisher at hand at all times. - No smoking or naked flame near flammable substances or in unauthorised areas - Ensure proper storage/use of Petrol/diesel/flammable substances – post warning notices - Equipment must be in good condition, maintained - Personnel using substances must be trained in safe use and risks
15.	Hand tools	Injuries caused by use of hand tool Impact with the tool Falls due to access problems Contamination with substance being worked	- Ensure: - Tool is correct for job - Tool is in good order and suitably sharp - Personnel must be competent/instructed in tool usage and tool safely - Lighting is sufficient - Access is safe, working platform is secure, leading edge is guarded - Operative is wearing all necessary PPE
16.	Hazardous Substances	Injuries to workers through use of hazardous substances, e.g. injuries to eyes, skin, etc.	- Use substances in accordance with data sheet, particularly reference protective clothing required (example: gloves, goggles, etc.) - Know what First Aid measures are - Have welfare facilities available for washing of hands, etc.
17.	Kerb Laying	Nips at joints Crushing by kerbs Caustic burns	- Impervious gloves and barrier cream to be used to protect hands. - Personnel should be aware of safe manual handling techniques when handling kerbs.
18.	Lifting Operations	Falling material Crushing by materials Hand injuries to the slinger Toppling crane	- Check test certificate - Check examination certificate - Check inspection have been carried out - Check certificates for lifting equipment (chains, slings, shackles, etc.) - Ensure lifting gear is rated to carry load (SWL) - Ensure materials being lifted are properly packaged and slung. - Be aware that there should be a minimum clearance of 600mm between any slewing parts of a crane and any fixed installation to prevent being trapped. - Access to the work area during lifting operations is to be restricted to those involved with and trained in the work in hand. Do not allow members of the public to gain access to the area. - Only trained banksmen to be used. - The crane driver and the banksmen are to ensure that the signals given are clearly understood.
19.	Manhole Rings and Pipes Storage	Rolling of rings Collapse of pipes Crushing of persons Stock pile collapse	- Manhole rings must be stored flat to prevent them being rolled. - Banks of pipe stock piles are not to be broken until they are ready for use. - Personnel must stand to the side when breaking bands so as not to be hit by falling pipes. - Pipes must be wedged to prevent rolling
20.	Manual Handling of General Items	Muscular skeletal injuries if the load is too heavy or awkward Operative falling/ tripping Contamination from the substance being carried Fall of material being carried	- Personnel should be aware of safe manual handling techniques - Personnel to wear Personal Protective Equipment when carrying items, e.g. safety footwear and gloves. - Ensure good housekeeping against tripping/fall hazards. - Operative to get assistance if load too heavy- team lift if necessary.

			- Utilise mechanical lifting and carrying aids where possible. - Personnel to ensure access equipment, ladders will take weight of operative and load being carried. - Personnel to ensure item being carried is properly bonded or is not liable to break apart whilst being manually handled.
21.	Material Hoist	Mechanical failure Overloading Hoist gateway being left open at landings	- Safe working limit to be indicated on hoist. - Hoist operator to be trained/ competent. - Regular maintenance and inspection of hoist by competent person - Records of maintenance and inspection to be maintained. - Hoist gate should be fitted with mechanical and electrical interlocking devices.
22.	Members of Public – Protection of	Injury to member of public and road users from site works	- Barriers and signage to be in place - Workers must warn away any members of public from the works - Footpaths and bridges which are open to public must be closed off if in area of works or otherwise made safe so that no injury occurs to members of public - Traffic turning into site – traffic management and signage as required. - Signage to be on road at site entrance warning motorists that construction traffic turning into/out of site access. Keep roads free of mud where possible - Refer to plant risk assessment for details on plant safety precautions - NOTE: SIGNAGE TO BE POSTED ON SITE TO WARN OF CONSTRUCTION TRAFFIC MOVEMENTS. SAFE MEANS OF ACCESS FOR BOTH CONSTRUCTION TRAFFIC TO SITE AND PRIVATE HOMEOWNERS MUST BE AGREED.
23.	Night Work	Security Lighting	- The Contractor shall not undertake any night work without prior arrangement and a written permit from the Client. - The Contractor shall ensure that adequate lighting is provided for all night work and failure to do so shall result in work being stopped.
24.	Noise and Dust	Breathing in dust can cause long term health problems; noise can damage hearing	- Wear respiratory and hearing protection - Dampen down and minimise dust where possible.
25.	Overhead Services (Working near)	Contact with live services causing injury to personnel Damage caused to services	- Maintain safe clearance levels - Establish presence of any services via proper walk through survey of site and/or means of service drawings - Wear personal protective clothing - Ensure height of plant/vehicles does not compromise or exceed clearance levels for overhead services - Obtain information on clearance levels from service provider
26.	Painting	Contact with paint	- Refer to safety data sheet for usage instructions, hazards and precautions required. - When working at height, refer to risk assessment addressing this hazard below.
27.	Paving (Laying)	Impact injuries from tile / mallet Caustic burns Sore knees Cuts from cutter	- Impervious gloves to be worn/ barrier cream to be used - Kneelers or similar to be available - Personal protective equipment to be worn – for example if saw used to cut pavers
28.	Piling	Falls Struck by machines Exposure to noise	- Personnel to be trained and competent, piling rig to be in safe condition and inspected on daily basis on register by competent person - Empty piling holes not to be left unguarded

			- Only approach piling plant on signal from operator - Personnel to wear personal protective equipment such as ear plugs
29.	Plant or Vehicles and Equipment Operation	Workers injured by passing traffic Road users and pedestrians at risk from plant operation Noise	- Implement traffic protection measures - Trained and competent operators must be used - Check plant and vehicles on daily basis before use and record inspections. Maintain vehicles in safe condition. - Medical certificates of fitness required for construction plant. - Crossing of road by construction vehicles or machines must be limited to the practical minimum - Plant and vehicles must be fitted with amber rotating beacons and reverse alarms. - Wear appropriate protective clothing/equipment, e.g. goggles, gloves, ear defenders, etc. as appropriate.
30.	Plastering	Falling materials Fall from height Contact with materials	- Ensure standard safety procedures are followed - Ensure there is a safe working area - Ensure safe access and egress - Ensure competent personnel are used
31.	Plumbing	Falling material Falling from height Fire Burns Exposure to lead fumes	- Ensure standard safety procedures are followed at all times - Only used trained and competent personnel - Ensure there is a safe working area at all times - Ensure materials are stored neatly - Ensure there is safe access and egress at all times - Ensure all personnel wear suitable and sufficient personal protective equipment - Consider a hot works permit system prior to commencing any hot works - Make sure emergency procedures are in place and ensure all personnel are aware of where to go in case of a fire
32.	Scaffold Erection/Dismantling	Personnel falling from a height Items of scaffold falling onto personnel Scaffold collapsing onto those below	- Ensure scaffold is designed to take the imposed loads - scaffolding is constructed properly - scaffold is not overloaded - scaffolders are fully trained - scaffolding is regularly checked by competent person and record of inspection retained. Written inspections to be recorded on weekly basis - scaffolders must adhere to the safe systems of work. - all fall arrest equipment to be checked and certified in good working order - that ALL understand the safe system of work
33.	Shuttering Walls, Beams, Columns	Falling from height Falling materials from height Cuts and abrasions from splinters and nails	- Ensure all personnel wear the appropriate Personal Protective Equipment - Ensure at all times there is a safe working platform - Use only trained and competent personnel - If electrical tools are being used ensure they have been tested and safe to use - Ensure timber is de-nailed after use - Ensure safety standards are followed at all times - Ensure there is a safe means of access and egress at all times
34.	Site Strip	Overtaking Vehicles	- Follow standard safety procedures - Only use trained and competent personnel - Ensure there is a suitable and safe means of access and egress - Ensure banksman used when required - Ensure all personnel wear suitable reflector vests as required
35.	Snakes	Snake bite	- Qualified first aider required for site who can treat snakebite - Snake bite kit to be on hand - Check area before working



			Find out nearest hospital and get emergency telephone numbers.
36.	Steel Fixing	Back injuries caused by manual handling Eye injuries from tie wire Trips / falls Falling form height	- PPE must include safety boots and goggles - Manual handling training may be required - Care to be taken when working near over head lines - Use only trained personnel - Provide safe means of access - Maintain and regularly inspect all lifting appliances and equipment - Cap starter bars to prevent injuries where feasible - Construct scaffold walk ways to cross reinforcing mesh, as required
37.	Temporary Works – shoring, scaffold, falsework, formwork	Collapse of form work	- Wear personal protective equipment such as gloves and goggles - Formwork must be built by trained person and also be inspected by competent person and results entered into register on site
38.	Tower (Mobile Aluminium Tower) Scaffold	Over Turning Falls	- Tower to be on firm level ground with wheels or feet properly supported. - Height not to exceed 3 times the base dimension. i.e. 2x3m Base Tower not exceed 6m. - Erection by competent person - Inspection before first use - Weekly record of inspection required - Guard rails and Toe boards as per normal scaffolds - Beware when moving of overhead obstructions, such as power lines - Never move in strong winds
39.	Underground Services	Striking of buried services	- Make all necessary enquiries to establish what services are in the area. Consult drawings and advice from service provider (e.g. Municipality or ESKOM) when planning work. - Assume all service to be live (Unless confirmation is received to confirm that services are isolated or otherwise made safe). Do not work near live services without authorisation from site management. - Comply with the requirements of the safe system of work for underground services. - Where available, locate services with a locator - Hand dig around services
40.	Working at Height	Personnel falling form height Falling debris Those beneath being injured	- All access equipment is properly constructed (inspections record must be maintained) - Only trained personnel construct, dismantle or control the access equipment - All access equipment must have full toe boards and guardrails - comply with SANS 10085 on erection, use and dismantling of scaffolding - No access equipment may be loaded above the level of the guardrail - No access equipment to be loaded above its safe working load - Where work involves leaning out on an open leading edge, then all personnel are to be fitted with full body harness. The harness must be connected at all times - All fall arrest equipment to be correctly maintained - Ensure if ladders are being used for access, they are either footed or tied. Also the ladder must be set at the correct level of 1 in 4 or approximately 75°



safe working practice
OCCUPATIONAL HEALTH AND SAFETY GROUP

ISSUE REGISTER

Date of Original Safety Specification Compilation	Compiled By	Issue Date	Revision Date
6 October 2017	Jay Bhana		

Acknowledgement:

I, _____ representing
_____(Contractor), have satisfied
myself with the content of this Health and Safety Specification and shall ensure that our employees
and contractors on site comply with the requirements of this document, our safety documentation and
health and safety legislation.

Signature of Contractor

Date

Comments:

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



PROVINCE OF THE EASTERN CAPE
DEPARTMENT OF HEALTH

Project title:	WILLOWVALE CHC GENERAL BUILDING AND STAFF ACCOMMODATION REFURBISHMENT, PAVING AND ROADWORKS
Bid No:	SCMU3-17/18-0340-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.

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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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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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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.

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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.

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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

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

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 _____

HIV/AIDS AWARENESS PROGRAMME : WORKSHOP CONTENT ADDRESSED

DATE		W/S			W/S			W/S			W/S			W/S			W/S		
		D	D	M	D	D	M	D	D	M	D	D	M	D	D	M	D	D	M
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

Fill in your name and indicate attendance by ticking the appropriate date

[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

Contract No.

Project No.

Month of Report:

Project Name:

Sheet Of

Names of all Local Workers employed at any time on the project are to be entered in the table below irrespective of how long they worked on the project.

[illegible]

Completed by: Name: Signature: Capacity Date:

WEEKLY TASK WAGE REGISTER (local labourers only)

Project Name:

Sheet Of

Week Ending:

[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)		

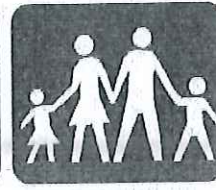
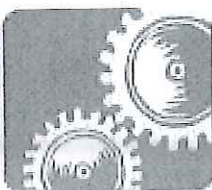
4. Summary of Amount Spent on Material to Date (Cumulative)

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 progres
(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



EXPANDED PUBLIC WORKS PROGRAMME CONTRIBUTING TO A NATION AT WORK

Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)

SECOND EDITION • JULY 2005



**National
Treasury**



DFID

Prepared with the assistance of the UK
Department for International Development



public works

Department:
Public Works
REPUBLIC OF SOUTH AFRICA

Guidelines for the Implementation of Labour Intensive Projects under the Expanded Public Works Programme (EPWP)

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Foreword

The Expanded Public Works Programme (EPWP) is one of government's short-to-medium term programmes aimed at alleviating and reducing unemployment. The EPWP will achieve this aim through the provision of work opportunities coupled with training. It is a national programme covering all spheres of government and state-owned enterprises (SOE's). President Mbeki formally announced the programme in his State of the Nation Address in February 2003.

Government's medium-to-long term programmes to address unemployment include increasing economic growth, improving skills levels through education and training, and improving the enabling environment for industry to flourish. The EPWP will continue to exist until these medium-to-long term programmes are successful in reducing unemployment.

The programme involves reorientating line function budgets so that government expenditure results in more work opportunities, particularly for unskilled labour. EPWP projects will therefore be funded through the normal budgetary process, through the budgets of line-function departments, provinces and municipalities.

Opportunities for implementing the EPWP have been identified in the infrastructure, environmental, social and economic sectors. In the infrastructure sector the emphasis is on creating additional work opportunities through the introduction of labour-intensive construction methods. Labour-intensive construction methods involve the use of an appropriate mix of labour and machines, with a preference for labour where technically and economically feasible, without compromising the quality of the product.

All public bodies involved in infrastructure provision are expected to attempt to contribute to the programme. As part of this initiative, the national government has through the 2004 Division of Revenue Act placed some additional conditionalities on the Provincial Infrastructure Grant (PIG) and the Municipal Infrastructure Grant (MIG). These additional conditionalities will require provinces and municipalities to use the "Guidelines for the implementation of labour intensive infrastructure projects under the EPWP" agreed upon between SALGA, National Treasury and the Department of Public Works for identification, design and construction of projects financed through the MIG or PIG. This document contains those guidelines.

International and local experience has shown that, with well-trained supervisory staff and an appropriate employment framework, labour-intensive methods can be used successfully for infrastructure projects involving low-volume roads and sidewalks, stormwater drains, and trenches. On the basis of this experience, and in the context of high levels of unemployment, the national government has decided to require that these infrastructure projects must be carried out labour-intensively.

These guidelines aim to provide provinces and municipalities with the necessary tools to successfully tender these projects as labour-intensive projects. These guidelines have been designed with the aim of minimising the additional work required from provincial and municipal officials. The National Department of Public Works is working with the Construction Education and Training Authority (CETA) to develop the capacity of the construction industry to design and manage labour-intensive infrastructure projects successfully.

The guidelines contain sections which should be copied into the relevant parts of the contract documentation for consulting engineers and contractors. These sections introduce a requirement that certain construction activities must be carried out by hand, under certain conditions. These requirements were formulated on the basis of a thorough review of international and local experience of labour-intensive construction, in order to identify the activities for which it is economically and technically feasible to use labour-intensive methods. The guidelines therefore conform to the Public Finance Management Act requirement for assessing the cost-effectiveness of capital projects. The normal tender evaluation processes are followed under these guidelines, and it is not necessary to apply any special additional preferences for employment creation.

The guidelines include the contents of the Code of Good Practice for Special Public Works Programmes, which has been gazetted by the Department of Labour, and which provides for special conditions of employment for these EPWP projects. In terms of the Code of Good Practice, the workers on these projects are entitled to formal training, which will be provided by training providers appointed (and funded) by the Department of Labour. For projects of up to six months in duration, this training will cover life-skills and information about other education, training, and employment opportunities.

In order to develop the capacity of the construction industry to manage labour-intensive projects, these guidelines also include an eligibility requirement for the appointment of contractors and consulting engineers, i.e. that their key staff involved in the project must undergo special NQF-accredited training programmes in labour-intensive construction.

As an additional means of addressing the capacity in the labour-intensive construction sector, DPW together with the CETA has established a labour intensive contractor learnership programme. The aim of this learnership programme is to produce small contractors qualified to execute work in accordance with these guidelines. The CETA is paying for the classroom training of these contractors.

As part of this learnership programme, learner contractors need to execute projects to gain practical experience. Partnering provinces and municipalities may allocate projects identified and designed using these guidelines to the learner contractors on a negotiated price basis.

An electronic version of these guidelines and electronic copies of the following documents can be obtained on the enclosed CD ROM or downloaded from www.epwp.gov.za:

- Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes
- Ministerial Determination, Special Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice N° R63 of 25 January 2002
- Government Gazette (DORA 2004 with MIG and PIG Conditions)
- Documents relating to the Labour Intensive Contractor Learnership Programme



Amendments to the first edition incorporated in this second edition

Minor amendments to the text of the first edition have been made to:

- i) change the deadlines for persons in the employ of the contractor to be accredited in respect of the relevant CETA standards;
- ii) align the text with the requirements of the Construction Industry Development Regulations; and
- iii) delete text that has now become redundant.

Terminology

By hand: refers to the use of tools which are manually operated and powered

Form of contract: refers to a document (conditions of contract) published by industry which establishes the rights, liabilities and obligations of the contracting parties and the procedures for the administration of the contract.

Labour-intensive: refers to methods of construction involving a mix of machines and labour, where labour, utilising hand tools and light plant and equipment, is preferred to the use of heavy machines, where technically and economically feasible.

(Note: The normal emphasis on the cost-effectiveness and quality of the asset must be retained.)

Public body: refers to a department, trading entity, constitutional institution, municipality, public entity or municipal entity

Scope of work: refers to a specification and description of the services or construction works which are to be provided and any other requirements and constraints relating to the manner in which the contract is to be performed

Abbreviations

CETA: Construction Education and Training Authority

CIDB: Construction Industry Development Board

ECSA: Engineering Council of South Africa

EPWP: Expanded Public Works Programme

FIDIC: French acronym for the International Federation of Consulting Engineers

NEC: New Engineering Contract

NQF: National Qualifications Framework

SANS: South African National Standard

SPWP: Special Public Works Programme

1 Introduction

Labour-intensive infrastructure projects under the EPWP include:

- using labour intensive construction methods to provide employment opportunities to local unemployed people;
- providing training or skills development to those locally employed workers;
- building cost-effective and quality assets.

This document is a guiding framework for the implementation of labour-intensive projects under the Expanded Public Works Programme. It provides the means by which labour intensive works can be implemented under the most commonly encountered delivery model, namely design by employer (i.e. the model in which the contractor undertakes construction on the basis of full designs issued by the employer.) It also assumes that the public body will appoint a consultant to design the works and to administer the contract. Adjustments to the text of this document will be necessary to accommodate other delivery models. Where no consultants are appointed, the staff of the public body needs to perform the activities assigned to consultants in this document.

The document in addition provides guidance on the:

- identification of suitable projects;
- appropriate design for labour-intensive construction;
- the specification of labour-intensive works; and
- the compilation of contract documentation for labour-intensive projects.

Specific direction is given regarding contract clauses which must be included to amend or augment standard documentation, in order to implement labour-intensive projects.

These guidelines must be applied to all relevant projects for which the design process commences after the beginning of the 2004-2005 financial year.

Appendix A provides sources of additional information.

The employment of locally employed temporary workers on all EPWP labour-intensive infrastructure projects must be in accordance with the Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes issued in terms of the Basic Conditions of Employment Act, 1997 (Act N° 75 of 1997) and promulgated in Government Gazettes Notice N° P64 of 25 January 2002. The requirements of this Code have been included in this Guidelines document. However, reference should be made to the full text of the Code of Good Practice and the related Ministerial Determination.

2 Responsibilities of the public body

2.1 Selection of projects

The public body must implement the following types of civil infrastructure projects labour-intensively, in accordance with these guidelines:

- low-volume roads (typically less than 500 vehicles per day);
- sidewalks and non-motorised transport infrastructure
- stormwater drainage; and
- trenching

where such projects contain a significant amount of the construction activities for which the use of labour is specified in the Generic Labour Intensive Specification in section 3.3.3 below, i.e. excavation, loading, short-distance hauling, offloading, spreading, grassing, and stone-pitching.

There is also potential for additional employment creation in other types of infrastructure and building (see Annexure B). Public bodies are also encouraged to create additional work opportunities in these projects. These guidelines may be used for other labour-intensive projects other than those types of civil infrastructure projects specified above, as long as such projects involve a significant substitution of labour for machines.

The public body must be satisfied that sufficient local labour (willing to work) is available for the project, before proceeding with the project as a labour-intensive project.

The public body is encouraged to send its relevant managers on the applicable skills programmes in labour-intensive construction (See Appendix C).

2.2 Setting of rate of pay

In accordance with the Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes (clause 10.4), the public body must set a rate of pay (task-rate) for workers to be employed on the labour-intensive projects.

Clause 10.4 requires that the following should be considered when setting rates of pay for workers:

- 10.4.1 *The rate set should take into account wages paid for comparable unskilled work in the local area per sector, if necessary.*
- 10.4.2 *The rate should be an appropriate wage to offer an incentive for work, to reward effort provided and to ensure a reasonable quality of work. It should not be more than the average local rate to ensure people are not recruited away from other employment and jobs with longer-term prospects.*
- 10.4.3 *Men, women, disabled persons and the aged must receive the same pay for work of equal value.*

2.3 Appointment of consulting engineers and contractors

The public body must ensure that:

- i) the design of the labour intensive works by consultants is overseen by persons in their employ who have completed the necessary skills training (see Appendix C);
- ii) works contracts are administered by persons in the employ of consultants who have completed the necessary skills training (see Appendix C); and
- iii) works contracts are awarded to contractors who have in their employ managers who have completed the necessary skills training (see Appendix C).

As a concession up to 30 June 2006, persons in the employ of contractors identified in Appendix C who have not completed the requisite skills training need only to be registered on the relevant skills programmes.

3 Contract documentation for consulting engineers and contractors for labour-intensive construction projects

3.1 General

All the standard forms of contract listed in the CIDB Standard for Uniformity in Construction Procurement may be used for labour-intensive projects. It is not necessary to create special new forms of contract or to amend the approved forms of contract to implement labour based works.

Requirements for labour-intensive works need, however, to be established in the scope of work associated with a contract for both consultants and contractors.

The approved standard forms of contract for professional services use different terms to describe the parties to the contract. These guidelines use the terms employer and consultant for the parties engaged in professional service contracts and scope of work for requirements in both professional service and construction contracts.

3.2 Contract Documentation for Consulting Engineering Services

The scope of work must establish the manner in which the consultant is to provide the consulting engineering services associated with labour intensive works.

All services relating to the implementation of the works which are to be provided in terms of these Guidelines are normal services in terms of the Guideline Scope of Service and Tariff of Fees for Persons Registered in terms of the Engineering Professions Act published by the Engineering Council of South Africa in terms of a Board Notice. Any changes in the design of the works to incorporate labour intensive works should not constitute a change in scope or an additional service where the scope of work is framed around such ECSA publications.

The following must be included in the scope of work in the contract of employment with a Consulting Engineer:

Labour-intensive works

1. The Consultant shall not perform any significant portion of a project involving labour-intensive works under the direction of a staff member who has not completed the NQF level 7 unit standard "Develop and Promote Labour Intensive Construction Strategies" (Details of this skills programmes may be obtained from the CETA ETQA manager (e-mail: gerard@ceta.co.za, tel: 011-265 5900).

2. The staff member of the consultant who is responsible for the administration of any works contract involving labour intensive works must have completed the NQF level 5 unit standard "Manage Labour Intensive Construction Projects" (Details of this skills programmes may be obtained from the CETA ETQA manager (e-mail: gerard@ceta.co.za, tel: 011-265 5900).
3. The Consultant must provide the Employer with satisfactory evidence that staff members satisfy the requirements of 1 and 2.
4. The Consultant must design and implement the construction works in accordance with the Guidelines for the Implementation of the Labour Intensive Projects under the Expanded Public Works Programme (the Guidelines) published by the National Department of Public Works.
5. The Consultant shall, for monitoring purposes, keep monthly records of and transmit to the Client data obtained from the contractor on the following indicators with regard to workers employed:
 - Project budget
 - Actual Project Expenditure
 - Number of job opportunities created
 - Demographics of workers employed (disaggregated by women, youth and persons with disabilities)
 - Minimum day-task wage rate earned on project
 - Number of person-days of employment created
 - Number of persons who have attended a standard EPWP 10 day accredited training course

The definitions for these indicators are contained in Annexure D of the latest edition of the Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP). The values for the indicators shall be submitted to the Employer on the prescribed reporting template (from the EPWP Unit in the DPW) and obtainable from www.epwp.gov.za

6. The Consultant shall certify that the works have been completed in accordance with the requirements of the Guidelines and the Contract:
 - a) whenever a payment certificate is presented to the Employer for payment; and
 - b) immediately after the issuing of a practical completion certificate that signifies that the whole of the works have reached a state of readiness for occupation or use for the purposes intended although some minor work may be outstanding.

3.3 Contract Documentation for the Works

3.3.1 Notice and Invitation to tender / Conditions of tender

Public bodies must only award contracts to contractors who have suitably qualified senior and middle supervisory staff to supervise the labour-intensive works. Tenderers must be made aware of this requirement in tender documents. Those responsible for evaluating tenders must confirm that the contractor has such staff available for the contract during the tender evaluation process.

The following must be included in the notice and invitation to tender:	
Only tenderers who employ staff which satisfy EPWP requirements are eligible to submit tenders.	
The following must be included in the tender data in accordance with the provisions of the CIDB Standard for Uniformity in Construction Procurement:	
F.2.1	Only those tenderers who have in their employ management and supervisory staff satisfying the requirements of the scope of work for labour intensive competencies for supervisory and management staff are eligible to submit tenders.
F.2.18	The tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.

3.3.2 Contract Data

As mentioned in 3.1, any approved standard form of contract for construction works may be used for labour-intensive projects. These forms of contract must not, however, be amended or varied to alter the obligations, liabilities or rights of the employer, representative of the employer (engineer / principal agent / agent / project manager) or contractor where a project manager, materials manager, trainer, mentor or any other person is appointed to support the Contractor.

The following must be included in the contract data in the contract with the Employer:

Payment for the labour-intensive component of the works

Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

Applicable labour laws

The Ministerial Determination, Special Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice N° R63 of 25 January 2002, as reproduced below, shall apply to works described in the scope of work as being labour intensive and which are undertaken by unskilled or semi-skilled workers.

1 Introduction

- 1.1 This document contains the standard terms and conditions for workers employed in elementary occupations on a Special Public Works Programme (SPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of a SPWP.
- 1.2 In this document –
- (a) "department" means any department of the State, implementing agent or contractor;
 - (b) "employer" means any department, implementing agency or contractor that hires workers to work in elementary occupations on a SPWP;
 - (c) "worker" means any person working in an elementary occupation on a SPWP;
 - (d) "elementary occupation" means any occupation involving unskilled or semi-skilled work;
 - (e) "management" means any person employed by a department or implementing agency to administer or execute an SPWP;
 - (f) "task" means a fixed quantity of work;
 - (g) "task-based work" means work in which a worker is paid a fixed rate for performing a task;
 - (h) "task-rated worker" means a worker paid on the basis of the number of tasks completed;
 - (i) "time-rated worker" means a worker paid on the basis of the length of time worked.

2 Terms of Work

- 2.1 Workers on a SPWP are employed on a temporary basis.
- 2.2 A worker may NOT be employed for longer than 24 months in any five-year cycle on a SPWP.
- 2.3 Employment on a SPWP does not qualify as employment as a contributor for the purposes of the Unemployment Insurance Act 30 of 1966.

3 Normal Hours of Work

- 3.1 An employer may not set tasks or hours of work that require a worker to work–
- (a) more than forty hours in any week
 - (b) on more than five days in any week; and
 - (c) for more than eight hours on any day.
- 3.2 An employer and worker may agree that a worker will work four days per week. The worker may then work up to ten hours per day.
- 3.3 A task-rated worker may not work more than a total of 55 hours in any week to complete the tasks allocated (based on a 40-hour week) to that worker.

4 Meal Breaks

- 4.1 A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.
- 4.2 An employer and worker may agree on longer meal breaks.
- 4.3 A worker may not work during a meal break. However, an employer may require a worker to perform duties during a meal break if those duties cannot be left unattended and cannot be performed by another worker. An employer must take reasonable steps to ensure that a worker is relieved of his or her duties during the meal break.
- 4.4 A worker is not entitled to payment for the period of a meal break. However, a worker who is paid on the basis of time worked must be paid if the worker is required to work or to be available for work during the meal break.

5 Special Conditions for Security Guards

- 5.1 A security guard may work up to 55 hours per week and up to eleven hours per day.
- 5.2 A security guard who works more than ten hours per day must have a meal break of at least one hour or two breaks of at least 30 minutes each.

6 Daily Rest Period

Every worker is entitled to a daily rest period of at least eight consecutive hours. The daily rest period is measured from the time the worker ends work on one day until the time the worker starts work on the next day.

7 Weekly Rest Period

Every worker must have two days off every week. A worker may only work on their day off to perform work which must be done without delay and cannot be performed by workers during their ordinary hours of work ("emergency work").

8 Work on Sundays and Public Holidays

- 8.1 A worker may only work on a Sunday or public holiday to perform emergency or security work.
- 8.2 Work on Sundays is paid at the ordinary rate of pay.
- 8.3 A task-rated worker who works on a public holiday must be paid –
 - (a) the worker's daily task rate, if the worker works for less than four hours;
 - (b) double the worker's daily task rate, if the worker works for more than four hours.
- 8.4 A time-rated worker who works on a public holiday must be paid –
 - (a) the worker's daily rate of pay, if the worker works for less than four hours on the public holiday;
 - (b) double the worker's daily rate of pay, if the worker works for more than four hours on the public holiday.

9 Sick Leave

- 9.1 Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.
- 9.2 A worker who is unable to work on account of illness or injury is entitled to claim one day's paid sick leave for every full month that the worker has worked in terms of a contract.
- 9.3 A worker may accumulate a maximum of twelve days' sick leave in a year.
- 9.4 Accumulated sick-leave may not be transferred from one contract to another contract.
- 9.5 An employer must pay a task-rated worker the worker's daily task rate for a day's sick leave.
- 9.6 An employer must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.
- 9.7 An employer must pay a worker sick pay on the worker's usual payday.
- 9.8 Before paying sick-pay, an employer may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is –
 - (a) absent from work for more than two consecutive days; or
 - (b) absent from work on more than two occasions in any eight-week period.

- 9.9 A medical certificate must be issued and signed by a medical practitioner, a qualified nurse or a clinic staff member authorised to issue medical certificates indicating the duration and reason for incapacity.
- 9.10 A worker is not entitled to paid sick-leave for a work-related injury or occupational disease for which the worker can claim compensation under the Compensation for Occupational Injuries and Diseases Act.

10 Maternity Leave

- 10.1 A worker may take up to four consecutive months' unpaid maternity leave.
- 10.2 A worker is not entitled to any payment or employment-related benefits during maternity leave.
- 10.3 A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.
- 10.4 A worker is not required to take the full period of maternity leave. However, a worker may not work for four weeks before the expected date of birth of her child or for six weeks after the birth of her child, unless a medical practitioner, midwife or qualified nurse certifies that she is fit to do so.
- 10.5 A worker may begin maternity leave –
- (a) four weeks before the expected date of birth; or
 - (b) on an earlier date –
 - (i) if a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or
 - (ii) if agreed to between employer and worker; or
 - (c) on a later date, if a medical practitioner, midwife or certified nurse has certified that the worker is able to continue to work without endangering her health.
- 10.6 A worker who has a miscarriage during the third trimester of pregnancy or bears a still-born child may take maternity leave for up to six weeks after the miscarriage or stillbirth.
- 10.7 A worker who returns to work after maternity leave, has the right to start a new cycle of twenty-four months employment, unless the SPWP on which she was employed has ended.

11 Family responsibility leave

- 11.1 Workers, who work for at least four days per week, are entitled to three days paid family responsibility leave each year in the following circumstances –
- (a) when the employee's child is born;
 - (b) when the employee's child is sick;
 - (c) in the event of a death of –
 - (i) the employee's spouse or life partner;
 - (ii) the employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling.

12 Statement of Conditions

- 12.1 An employer must give a worker a statement containing the following details at the start of employment –
- (a) the employer's name and address and the name of the SPWP;
 - (b) the tasks or job that the worker is to perform; and

- (c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;
 - (d) the worker's rate of pay and how this is to be calculated;
 - (e) the training that the worker will receive during the SPWP.
- 12.2 An employer must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement.
- 12.3 An employer must supply each worker with a copy of these conditions of employment.

13 Keeping Records

- 13.1 Every employer must keep a written record of at least the following –
- (a) the worker's name and position;
 - (b) in the case of a task-rated worker, the number of tasks completed by the worker;
 - (c) in the case of a time-rated worker, the time worked by the worker;
 - (d) payments made to each worker.
- 13.2 The employer must keep this record for a period of at least three years after the completion of the SPWP.

14 Payment

- 14.1 An employer must pay all wages at least monthly in cash or by cheque or into a bank account.
- 14.2 A task-rated worker will only be paid for tasks that have been completed.
- 14.3 An employer must pay a task-rated worker within five weeks of the work being completed and the work having been approved by the manager or the contractor having submitted an invoice to the employer.
- 14.4 A time-rated worker will be paid at the end of each month.
- 14.5 Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.
- 14.6 Payment in cash or by cheque must take place –
- (a) at the workplace or at a place agreed to by the worker;
 - (b) during the worker's working hours or within fifteen minutes of the start or finish of work;
 - (c) in a sealed envelope which becomes the property of the worker.
- 14.7 An employer must give a worker the following information in writing –
- (a) the period for which payment is made;
 - (b) the numbers of tasks completed or hours worked;
 - (c) the worker's earnings;
 - (d) any money deducted from the payment;
 - (e) the actual amount paid to the worker.
- 14.8 If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it
- 14.9 If a worker's employment is terminated, the employer must pay all monies owing to that worker within one month of the termination of employment.

15 Deductions

- 15.1 An employer may not deduct money from a worker's payment unless the deduction is required in terms of a law.
- 15.2 An employer must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.
- 15.3 An employer who deducts money from a worker's pay for payment to another person must pay the money to that person within the time period and other requirements specified in the agreement law, court order or arbitration award concerned.
- 15.4 An employer may not require or allow a worker to –
 - (a) repay any payment except an overpayment previously made by the employer by mistake;
 - (b) state that the worker received a greater amount of money than the employer actually paid to the worker; or
 - (c) pay the employer or any other person for having been employed.

16 Health and Safety

- 16.1 Employers must take all reasonable steps to ensure that the working environment is healthy and safe.
- 16.2 A worker must –
 - (a) work in a way that does not endanger his/her health and safety or that of any other person;
 - (b) obey any health and safety instruction;
 - (c) obey all health and safety rules of the SPWP;
 - (d) use any personal protective equipment or clothing issued by the employer;
 - (e) report any accident, near-miss incident or dangerous behaviour by another person to their employer or manager.

17 Compensation for Injuries and Diseases

- 17.1 It is the responsibility of the employers (other than a contractor) to arrange for all persons employed on a SPWP to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.
- 17.2 A worker must report any work-related injury or occupational disease to their employer or manager.
- 17.3 The employer must report the accident or disease to the Compensation Commissioner.
- 17.4 An employer must pay a worker who is unable to work because of an injury caused by an accident at work 75% of their earnings for up to three months. The employer will be refunded this amount by the Compensation Commissioner. This does NOT apply to injuries caused by accidents outside the workplace such as road accidents or accidents at home.

18 Termination

- 18.1 The employer may terminate the employment of a worker for good cause after following a fair procedure.
- 18.2 A worker will not receive severance pay on termination.
- 18.3 A worker is not required to give notice to terminate employment. However, a worker

who wishes to resign should advise the employer in advance to allow the employer to find a replacement.

- 18.4 A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.
- 18.5 A worker who does not attend required training events, without good reason, will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.

19 Certificate of Service

- 19.1 On termination of employment, a worker is entitled to a certificate stating –
- (a) the worker's full name;
 - (b) the name and address of the employer;
 - (c) the SPWP on which the worker worked;
 - (d) the work performed by the worker;
 - (e) any training received by the worker as part of the SPWP;
 - (f) the period for which the worker worked on the SPWP;
 - (g) any other information agreed on by the employer and worker.

3.3.3 Scope of work

Standard specifications (those normally used by the public bodies) are to be utilised. It is necessary, however, to include certain requirements in the scope of work to implement labour-intensive works in accordance with the provisions of these Guidelines.

Appendix E outlines the earthworks which are to be executed by hand in terms of the South African Nation Standard 1921-5.

The following wording, as appropriate, must be included in the scope of work in the contract with the contractor

DESCRIPTION OF THE WORKS

Employer's objectives

The employer's objectives are to deliver public infrastructure using labour intensive methods

Labour-intensive works

Labour-intensive works comprise the activities described in SANS 1921-5, *Earthworks activities which are to be performed by hand*, and its associated specification data. Such works shall be constructed using local workers who are temporarily employed in terms of this Scope of Work.

LABOUR INTENSIVE COMPETENCIES OF SUPERVISORY AND MANAGEMENT STAFF

Contractors having a CIDB contractor grading designation of 5CE and higher shall only engage supervisory and management staff in labour intensive works who have either completed, or for the period 1 April 2004 to 30 June 2006, are registered for training towards, the skills programme outlined in Table 1.

The managing principal of the contractor, namely, a sole proprietor, the senior partner, the managing director or managing member of a close corporation, as relevant, having a contractor grading designation of 1CE, 2CE, 3CE and 4CE shall have personally completed, or for the period 1 April 2004 to 30 June 2006 be registered on a skills programme for the NQF level 2. All other site supervisory staff in the employ of such contractors must have completed, or for the period 1 April 2004 to 30 June 2006 be registered on a skills programme for, the NQF level 2 unit standards or NQF level 4 unit standards.

Table 1: Skills programme for supervisory and management staff

Personnel	NQF level	Unit standard titles	Skills programme description
Team leader / supervisor	2	Apply Labour-Intensive Construction Systems and Techniques to Work Activities	This unit standard must be completed, and
		Use Labour-Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	} any one of these 3 unit standards
		Use Labour-Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour-Intensive Construction Methods to Construct, Repair and Maintain Structures	
Foreman/ supervisor	4	Implement Labour-Intensive Construction Systems and Techniques	This unit standard must be completed, and
		Use Labour-Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	} any one of these 3 unit standards
		Use Labour-Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour-Intensive Construction Methods to Construct, Repair and Maintain Structures	
Site Agent / Manager (i.e the contractor's most senior representative that is resident on the site)	5	Manage Labour-Intensive Construction Processes	Skills Programme against this single unit standard

EMPLOYMENT OF UNSKILLED AND SEMI-SKILLED WORKERS IN LABOUR-INTENSIVE WORKS

1.1 Requirements for the sourcing and engagement of labour.

- 1.1.1 Unskilled and semi-skilled labour required for the execution of all labour intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.

1.1.2 The rate of pay set for the SPWP is R per task or per day.
(Insert value determined by public body in terms of clause 2.2 of these Guidelines)

1.1.3 Tasks established by the contractor must be such that:

- a) the average worker completes 5 tasks per week in 40 hours or less; and
- b) the weakest worker completes 5 tasks per week in 55 hours or less.

1.1.4 The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of 1.1.3.

1.1.5 The Contractor shall, through all available community structures, inform the local community of the labour intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:

- a) where the head of the household has less than a primary school education;
- b) that have less than one full time person earning an income;
- c) where subsistence agriculture is the source of income.
- d) those who are not in receipt of any social security pension income

1.1.6 The Contractor shall endeavour to ensure that the expenditure on the employment of temporary workers is in the following proportions:

- a) 60 % women;
- b) 20% youth who are between the ages of 18 and 25; and
- c) 2% on persons with disabilities.

1.2 Specific provisions pertaining to SANS 1914-5

1.2.1 Definitions

Targeted labour: Unemployed persons who are employed as local labour on the project.

1.2.3 Contract participation goals

1.2.3.1 There is no specified contract participation goal for the contract. The contract participation goal shall be measured in the performance of the contract to enable the employment provided to targeted labour to be quantified.

1.2.3.2 The wages and allowances used to calculate the contract participation goal shall, with respect to both time-rated and task rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes.

1.2.4 Terms and conditions for the engagement of targeted labour

Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into with targeted labour.

1.2.5 Variations to SANS 1914-5

1.2.5.1 The definition for net amount shall be amended as follows:

Financial value of the contract upon completion, exclusive of any value added tax or sales tax which the law requires the employer to pay the contractor.

1.2.5.2 The schedule referred to in 5.2 shall in addition reflect the status of targeted labour as women, youth and persons with disabilities and the number of days of formal training provided to targeted labour.

1.3 Training of targeted labour

1.3.1 The contractor shall provide all the necessary on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract in a manner that does not compromise worker health and safety.

1.3.2 The cost of the formal training of targeted labour, will be funded by the provincial office of the Department of Labour. This training should take place as close to the project site as practically possible. The contractor, must access this training by informing the relevant provincial office of the Department of Labour in writing, within 14 days of being awarded the contract, of the likely number of persons that will undergo training and when such training is required. The employer must be furnished with a copy of this request.

1.3.3 A copy of this training request made by the contractor to the DOL provincial office must also be faxed to the EPWP Training Director in the Department of Public Works– Cinderella Makunike, Fax Number 012 328 6820 or email cinderella.makunike@dpw.gov.za Tel: 083 677 4026

1.3.4 The contractor shall be responsible for scheduling the training of workers and shall take all reasonable steps to ensure that each beneficiary is provided with a minimum of six (6) days of formal training if he/she is employed for 3 months or less and a minimum of ten (10) days if he she is employed for 4 months or more.

1.3.5 The contractors shall do nothing to dissuade targeted labour from participating in the above mentioned training programmes.

1.3.6 An allowance equal to 100% of the task rate or daily rate shall be paid by the contractor to workers who attend formal training, in terms of 1.3.4 above.

1.3.7 Proof of compliance with the requirements of 1.3.2 to 1.3.6 must be provided by the Contractor to the Employer prior to submission of the final payment certificate.

GENERIC LABOUR-INTENSIVE SPECIFICATION

The Generic Labour-intensive specification below is the same as SANS 1921-5, Construction and management requirement for works contracts- Part 5: Earthworks activities which are to be performed by hand and should be included in the scope of works without amendment or modification as set out below.

Scope

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- a) trenches having a depth of less than 1.5 metres
- b) stormwater drainage
- c) low-volume roads and sidewalks

Precedence

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this specification shall prevail.

Hand excavateable material

Hand excavateable material is material:

a) granular materials:

- i) whose consistency when profiled may in terms of table 1 be classified as very loose, loose, medium dense, or dense; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;

b) cohesive materials:

- i) whose consistency when profiled may in terms of table 1 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

Note:

- 1) A boulder, a cobble and gravel is material with a particle size greater than 200mm, between 60 and 200mm.
- 2) A dynamic cone penetrometer is an instrument used to measure the insitu shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

Table 1: Consistency of materials when profiled

GRANULAR MATERIALS		COHESIVE MATERIALS	
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION
Very loose	Crumbles very easily when scraped with a geological pick.	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle.
Loose	Small resistance to penetration by sharp end of a geological pick.	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in upto 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.
Dense	Very high resistance to penetration by the sharp end of geological pick; requires many blows for excavation.	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumb-nail with difficulty; slight indentation produced by blow of a geological pick point.

Trench excavation

All hand excavateable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.

Compaction of backfilling to trenches (areas not subject to traffic)

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers

- a) to 90% Proctor density;
- b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or
- c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

Excavation

All hand excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand.

The excavation of any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

Clearing and grubbing

Grass and small bushes shall be cleared by hand.

Shaping

All shaping shall be undertaken by hand.

Loading

All loading shall be done by hand, regardless of the method of haulage.

Haul

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150 m.

Offloading

All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilised for haulage

Spreading

All material shall be spread by hand.

Compaction

Small areas may be compacted by hand provided that the specified compaction is achieved.

Grassing

All grassing shall be undertaken by sprigging, sodding, or seeding by hand.

Stone pitching and rubble concrete masonry

All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must to be collected, loaded, off loaded and placed by hand.

Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Grout shall be mixed and placed by hand.

Manufactured Elements

Elements manufactured or designed by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. In addition the items shall be large enough so that four workers can conveniently and simultaneously acquire a proper hand hold on them.

3.3.4 Bill of quantities

Labour-intensive works must be highlighted in the bills of quantities for the payment items relating to labour-intensive works.

The following wording, as appropriate, should be included in the pricing Instructions and in the bills of quantities in the pricing data:

1. Those parts of the contract to be constructed using labour-intensive methods have been marked in the bill of quantities with the letters LI in a separate column filled in against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour intensive specification in the Scope of Works.
2. Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

The following payment items should be included in the bill of quantities:

Description	Unit	Quantity	Rate	Amount
Training allowance paid to targeted labour in terms of formal training	Person days	(insert quantity)	(insert specified day rate)	
Extra over for the administration of payment of training allowances to targeted labour	Person days	(as above)		
Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site. (Provisional sum)	Sum	(insert provisional sum)		

4 Design checklist

Cognisance of the following should be taken in the design of labour-intensive works:

1. Earthworks must be designed taking consideration of the method of construction, namely labour intensive.
2. Vertical and horizontal alignment of the works (roads, trenches, pipelines and stormwater channels) should be such to optimise cut and fill, minimise deep or hard excavation or areas requiring specialist engineering input for example dewatering or specialist ground stabilisation.
3. During the design of gravel roads, suitable construction material should be sourced in close proximity to the site of the Works.
4. Drawings must be produced and presented in a clear easily understandable way. Where setting out information is provided in the form of coordinates it should be backed up with methods, not relying on sophisticated surveying instruments, such as offsets measurable will the use of a standard tape. Where possible and appropriate drawings should be produced using a background of ortho photos to provide for easily identification of surrounding features.
5. Except in special circumstances, drawings should be produced in a form that is easily readable in A3 format.
6. Where the haul distance is greater than 150m, and less than 5000m the use of small volume local transport, particularly using animal drawn vehicles should be considered.
7. Excavation in material which may constitute a safety hazard for workers must be excluded.
8. All pre-manufactured materials which are incorporated into the Works must be sized such that the mass of individual elements does not exceed 320kg.
9. Hazardous material such as lime or harmful chemical stabilizing agents must not be included in the Works.
10. Stone masonry and grouted stone pitching should be included wherever suitable material is available to the exclusion of pre-cast or cast in situ concrete stormwater structures.
11. Where compaction of road layer works is required, it must be carried out using conventional compaction equipment (mechanised pedestrian rollers where possible). Compaction of small areas and in trenches may be carried out using hand stampers.
12. Consideration must be given to alternative design of trenches for gravity pipelines to reduce depth of excavation.
13. Where there is an indication of local skills, e.g. bricklaying, structures should be designed to make use of such skills.
14. There are appropriate designs for labour-intensive construction of low-cost surfacing for low-volume roads, such as the Cape Seal and interlocking concrete blocks. Refer to Appendix A for further details.

APPENDIX A:

SOURCES OF ADDITIONAL INFORMATION

The following sources provide comprehensive information in respect of the following topics:

Topic	Reference	Obtainable from
Besa building system	Agrément South Africa's Guideline 1, The Manufacture of BESA Blocks Agrément Open Certificate OC-1/2003. Agrément Open Certificate OC-2/2003. CIDB. Best Practice Guidelines for Labour-based Methods and Technologies for Employment Intensive Construction Works. Part 3: Section 2- The BESA Building System	Agrément South Africa www.agrement@csir.co.za Construction Industry Development Board www.cidb.org.za under the section "job creation"
Brick and block making	CIDB. Best Practice Guidelines for Labour-based Methods and Technologies for Employment Intensive Construction Works. Part 3: Section 1- Precast Concrete Products, Brick and Block Making	Construction Industry Development Board www.cidb.org.za under the section "job creation"
Bituminous Surfacing	Methods and Procedures Labour Enhanced. Construction for Bituminous surfacings Manual 12, March 1993. SABITA.	Southern African Bitumen and Tar Association.
Bituminous Surfacing	Methods and Procedures Labour Enhanced. Construction for Bituminous surfacings Manual 11, March 1993. SABITA.	Southern African Bitumen and Tar Association.
Conditions of Employment	Code of Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes Ministerial Determination: Special Public Works Programmes	EPWP Unit of the Department of Public Works
Concrete Block Paved Roads	Macleod, Concrete Block Paved Roads: The Development Potential .Construction and Development .Series, Number 8. Development Bank .of Southern. Africa. September, 1993	Development Bank of Southern Africa.
Concrete roads	Low-volume concrete roads by Bryan Perrie	Cement and Concrete Institute www.cnci.org.za
Earthworks	CIDB. Best Practice Guidelines for Labour-based Methods and Technologies for Employment Intensive Construction Works. (Download from www.cidb.org.za) • Part 2: Labour-based construction methods for earth works • Appendix 1: Quantitative Employment Data on Selected Construction Activities	Construction Industry Development Board www.cidb.org.za under the section "job creation"
Labour intensive projects and programmes	McCutcheon, RT (ed) (1993). Interim Guidelines for employment-intensive construction projects. Construction and Development Series Number 2, Midrand: Development Bank of Southern Africa, February 1993 McCutcheon, RT and Marshall J (1996). Labour-intensive Construction and Maintenance of Rural Roads : Guidelines for the Training of Road Builders, Construction and Development Series, Number 14 (Midrand: DBSA, November 1996) McCutcheon, RT and Filip, LM (ed). Employment and high -standard infrastructure. Work Research Centre for Employment Creation in Construction (2003)	Development Bank of Southern Africa School of Civil Engineering, University of the Witwatersrand.

Labour productivities	CIDB. Best Practice Guidelines for Labour-based Methods and Technologies for Employment Intensive Construction Works. • Appendix 1: Quantitative Employment Data on Selected Construction Activities	Construction Industry Development Board www.cidb.org.za under the section "job creation"
Minimum wages	Wage determination for the Civil Engineering Sector	www.safcec.org.za under the section "human resources"
Monitoring the employment of workers / compliance with the provisions of SANS 1914-5	SANS 10396, Implementing Preferential Procurement Policies Using Targeted Procurement Procedures • Annex G: Implementing employment intensive infrastructure projects which target the increase of employment opportunities generated per unit of expenditure • Annex J: Third party management support	Standards South Africa (division of the South African Bureau of Standards)
Pre-cast concrete works	CIDB Best Practice Guidelines for Labour-based Methods and Technologies for Employment Intensive Construction Works. • Part 3: Section 1- Pre-cast Concrete Products, Brick and Block Making	Construction Industry Development Board www.cidb.org.za under the section "job creation"
Preparing procurement documents	CIDB Best Practice Guidelines for Procurement C1: Preparing Procurement Documents SANS 10403, Formatting and Compilation of Construction Procurement Documents	Construction Industry Development Board www.cidb.org.za under the section "job creation" Standards South Africa (division of the South African Bureau of Standards)
Roads	CIDB Best Practice Guidelines for Labour-based Methods and Technologies for Employment Intensive Construction Works. • Part 2: Labour-based construction methods for earthworks • Part 4: Section 4 - Foam bitumen gravel • Part 4: Section 5 - Cast in-situ block pavements (hysen cells) • Part 4: Section 6 - Emulsion treated gravel • Part 4: Section 7 - Waterbound macadam • Part 4: Section 8 - Slurry bound and composite macadams • Part 4: Section 9 - Labour-based methods for unsealed roads • Appendix 1: Quantitative Employment Data on Selected Construction Activities	
Rubble concrete masonry	CIDB Best Practice Guidelines for Labour-based Methods and Technologies for Employment Intensive Construction Works. • Part 4: Section 2 – Rubble masonry dam construction technology • Part 4: Section 3 – Rubble masonry concrete arch bridge construction technology	Construction Industry Development Board www.cidb.org.za under the section "job creation"
Stormwater drainage	CIDB Best Practice Guidelines for Labour-based Methods and Technologies for Employment Intensive Construction Works. • Part 4: Section 1 – Labour-based Open Channel Flow Technology	Construction Industry Development Board www.cidb.org.za under the section "job creation"
Trenches	CIDB Best Practice Guidelines for Labour-based Methods and Technologies for Employment Intensive Construction Works. (Download from www.cidb.org.za) • Part 2: Labour-based construction methods for earthworks • Appendix 1: Quantitative Employment Data on Selected Construction Activities	Construction Industry Development Board www.cidb.org.za under the section "job creation"

APPENDIX B: **TYPES OF INFRASTRUCTURE WHICH ARE SUITABLE FOR** **CONSTRUCTION USING LABOUR INTENSIVE METHODS**

B.1 Roads

The following operations may be carried out using labour intensive methods:

1. Site clearance
2. Layer work construction including loading, hauling and spreading material.
 Note: All compaction should be done using conventional compaction equipment and where necessary the use of heavy machinery may be employed to loosen material for excavation by hand. Where significant use of blasting is indicated, then the Works are probably not suitable for labour intensive methods.
3. Where higher standards of roads are to be constructed then the following operations may be included:
 - Macadam base course either dry, water bound or emulsion bound; foamed bitumen gravel; emulsion treated gravel; or slurry bound or composite macadam .
 - Application of bitumen bound surface treatment (cold) including spreading and dragging of chips.
 - Slurry treatments to existing or new road surfaces.
 - In situ concrete roads.
 - Segmented block paved roads.
 - Cast in-situ block pavements (hysen-cells);
 - Road markings.
4. Fencing.
5. Erection of road signs.
6. Grass maintenance.
7. Road reserve maintenance.
8. Rubble masonry bridges, culverts and retaining walls

B.2 Stormwater

The following operations may be constructed using labour intensive construction methods:

1. Gabions and reno mattresses.
2. Small diameter pre-cast concrete elements (pipes and arches).
3. Grassed or lined water channels

B.3 Sewers

The following operations may be constructed using labour intensive construction methods:

1. Sewer manholes either in brickwork or using specially manufactured pre-cast manhole rings (individual mass less than 320kg).
2. Sewer manhole covers and lids using specially designed pre-cast units.
3. Maturation or flocculation ponds with least dimension not exceeding 100m.

B.4 Water

The following operations may be constructed using labour intensive construction methods:

1. Laying of water pipelines, fittings and house connections in all materials (including steel) where the mass of individual pipe lengths does not exceed 320kg.
2. Construction of ferro-cement reservoirs.
3. Excavation for membrane lined and floating roof reservoirs.
4. Construction of small masonry reservoirs.
5. Spring and well protection measures

B.4 Haul of Material

Where the haul of any material exceeds 200m, consideration should be given to the use of local resources for transporting material. This includes the use of animal drawn vehicles and small trailer combinations utilising locally sourced tractors. All loading and off loading can be done by hand.

B.5 Electricity

The following operations may be constructed using labour intensive methods:

1. Excavation of trenches for reticulation of all voltages.
2. Excavation for and erection of poles for overhead lines.
3. Installation of all electricity cables (joints and terminations by qualified persons).

B.6 Houses, schools and clinics

Housing is seen as labour-intensive, but the number of local people that could be employed may be enhanced by one or more of the following:

1. Manufacture of masonry elements on site.
2. Excavation of all foundation trenches by hand.
3. Manufacture of roof trusses on site.
4. Adoption of the BESA System

Note: 1) In the BESA system walls are constructed using bitumen emulsion stabilised adobe blocks and mortar. External and internal wall surfaces can be finished in a variety of ways using a mortar mix or a cement/sand plaster.

2) The BESA Building System is the subject of an open certificate issued by Agrément South Africa. The concept of an open certificate is that the technology is not the intellectual property of any company or individual and the information is available to anyone who wishes to use it. Any competent person, company or institution who wishes to use this system and is capable of carrying out this work in accordance with the terms and conditions of certification and undertakes to do so, may apply to Agrément South Africa to be registered as a holder of this open certificate.

APPENDIX C: REQUIRED SKILLS PROGRAMMMES

C.1 Client/ Employer

It is recommended that personnel within public bodies complete skills programmes for NQF registered unit standards, as set out in Table C.1.

Table C.1: Skills programme for client / employer staff

Personnel	NQF	Unit Standard Title	Skills Programme Description
Senior management and professionals	7	Develop and Promote Labour-Intensive Construction Strategies	Skills Programme against this single unit standard
Middle (technical)	5	Manage Labour-Intensive management Construction Projects	Skills Programme against this single unit standard
Middle (admin)	5	Manage Labour-Intensive management Construction Projects	Skills Programme against this single unit standard

C.2 Consultants

The person responsible for the design and documentation of the labour intensive works, must have completed, or be registered on a skills programme for, the NQF level 7 unit standard "Develop and Promote Labour Intensive Construction Strategies". (see Table C.2)

The person who is responsible to the employer for the administration of the contract, must have completed, or be registered on a skills programme for, the NQF level 5 unit standard "Manage Labour Intensive Construction Projects". (see Table C.2)

Table C.2: Skills programme for consultants

Personnel	NQF	Unit standard Title	Skills Programme Description
Administrator / Site Supervisor	5	Manage Labour Intensive Construction Projects	Supervisor Skills Programme against this single unit standard
Designer	7	Develop and Promote Labour-Intensive Construction Strategies	Skills Programme against this single unit standard

C.3 Contractors

The unit standards for contractors are outlined in Table C.3.

Contractors having a CIDB contractor grading designation of 5CE and higher shall only engage supervisory and management staff in labour intensive works who have either completed, or for the period 1 April 2004 to 30 June 2006, are registered for training towards, the skills programme outlined in Table 1.

Contractors having a CIDB contractor grading designation of 1CE, 2CE, 3CE and 4CE shall have personally completed, or for the period 1 April 2004 to 30 June 2006 be registered on a skills programme for the NQF level 2 unit standard. All other site supervisory staff in the employ of emerging contractors must have completed, or for the period 1 April 2004 to 30 June 2006 be registered on a skills programme for, the NQF level 2 unit standards or NQF level 4 unit standards.

Personnel	NQF	Unit standard Titles	Skills Programme Description
Team Leader / Supervisor	2	Apply Labour-Intensive Construction Systems and Techniques to Work Activities	This unit standard must be completed, and
		Use Labour-Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	any one of the 1 unit standards must be completed
		Use Labour-Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour-Intensive Construction Methods to Construct, Repair and Maintain Structures	
Foreman / Supervisor	4	Implement Labour-Intensive Construction Systems and Techniques	This unit standard must be completed, and
		Use Labour-Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	any one of the 3 listed unit standards must be completed
		Use Labour-Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour-Intensive Construction Methods to Construct, Repair and Maintain Structures	
Site Agent / Manager	5	Manage Labour-Intensive Construction Processes	Skills Programme against this single unit standard

APPENDIX D:

DEFINITIONS OF PROGRAMME INDICATORS

Person-days of Employment Created

The number of people who worked on a project x the number of days each person worked.

Job Opportunities

1 job opportunity = paid work created for an individual on an EPWP project for any period of time. In the case of social sector projects, learnerships will also constitute job opportunities. The same individual can be employed on different projects and each period of employment will be counted as a job opportunity.

Project Wage

Minimum Daily Wage Rate = daily wage (whether task-rated or time-rated) per individual project. This wage rate must be inserted in the Project tender document as per the EPWP Guidelines.

Training Person-Days

A formal EPWP training course has been arranged by the Dept. of Labour. The number of training person-days attending this course or modules of this course must be captured.

For Other Training 1 training day = at least 7 hours of formal training. The number of Training Person-days is the number of people who attended training x the number of days of training.

A distinction must be made between accredited and non-accredited training person-days.

Project Budget

The project budget = the price tendered by the contractor + the professional fees for the professional service provider appointed to design and supervise the project. The project budget excludes government management & administration costs.

Actual Expenditure

Actual expenditure = the expenditure on the project by the contractor + the expenditure by the professional service provider appointed to design and supervise the project.

The actual expenditure excludes expenditure on government management & administration.

Demographic Characteristics of Workers

The number of workers that fall within the following categories must be recorded:

- Youth (i.e. 18 – 35 years of age)
- Women
- People with disabilities

The definitions contained in the Preferential Procurement Regulations of 2001 for these categories of beneficiaries will be utilised.

ADDITIONAL EPWP NOTES:

1. The overalls that contractor will procure, to be orange with EPWP (30 centimetres) letters on the back of the jacket and company logo on the heart pocket.
(Contractors report)
2. Each beneficiary must sign an EPWP contract, and initial each page, which will be provided to the EPWP Unit in that Region where the project is implemented and be kept on the project file. (Contractors report)
3. When contractors recruit local labourers, they must produce a 13 digit Identity ID document and a certified copy of the ID must be forwarded to the DRPW Regional EPWP representative. (Contractors report)
4. At least one disabled person to be recruited and employed on the project and reported as such. (Contractors report)
5. A daily attendance register, signed by each beneficiary, should be kept and a copy to be forwarded to the Regional EPWP representative. (Contractors report)
6. Each beneficiary must sign the payment sheet, as proof that they have been paid.
7. At the bottom of the contractors report, the site agent or CLO or contractor must sign the document as proof that the people indicated have worked the number of days. (Contractors report)
8. That all beneficiaries to be paid as prescribed in "pricing instructions"
9. When the contractors have completed the recruitment of local labourers, he/she should go to the local DOL, to register them for the payment of UIF and COIDA.
(Contractors report)
10. Employment of local labourers must constitute: 55% women, 55% young people.
(Contractors report)

C3.6 SOCIO ECONOMIC DEVELOPMENT & TRANSFORMATION



**Eastern Cape Provincial Government:
Department of Health**

**FACILITY MANAGEMENT AND MAINTENANCE
MANAGEMENT**

**BID SPECIFICATION FOR ADVANCEMENT OF SOCIO
ECONOMIC
DEVELOPMENT & TRANSFORMATION
(BS-ASEDT)**

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

FACILITY MANAGEMENT AND MAINTENANCE MANAGEMENT BID SPECIFICATION FOR ADVANCEMENT OF SOCIO ECONOMIC DEVELOPMENT & TRANSFORMATION (BS-ASEDT) JUNE 2017	
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Status: FINAL

Approved by (name):	Position	Signature	Date
Mr S. Kubashe	SAKHIWO FM Consortium (ASEDT)		
Mr H. Schwenk	SAKHIWO FM Consortium (PgD)		
Ms	EC Department of Health		
Mr M. Tuswa	EC Department of Health		

Status: Final for Management Review

Date Compiled: 09th June 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.

- ✓ Programme Planning
- ✓ Programme Environmental Scan
- ✓ Programme Mobilisation
- ✓ Skills Training & Development
- ✓ Monitoring, Evaluation and Reporting
- ✓ Lesson Learnt Workshop

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 of Business 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 Socio Economic Development and Transformation Specialists (SED-T-S).

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

SED-T-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	SED-T-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. SED-T-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.	• 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.	
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.	• 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.	• 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, SED-T-S to facilitate both Labour and Business Training.	Contractor to create a conducive environment for Labour and Business Training.	• Pre-Assessment of both Labour & Business • Skills Training • Post Assessment
F	HIV/AIDS Awareness	SED-T-S to facilitate the HIV/Aids Awareness sessions for both communities and projects.	To avail workforce for the awareness sessions.	• 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.
- The LC Contract to also make a provision for the HIV/Aids Awareness to be facilitated by the LC 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.
- 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.
- 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 SEDT-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 SEDT-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.

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

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

PART 2: PRICING DATA

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

Project title:	WILLOWVALE CHC GENERAL BUILDING AND STAFF ACCOMMODATION REFURBISHMENT, PAVING AND ROADWORKS
Tender No:	SCMU3-17/18-0340-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.

PART 3: SITE INFORMATION

Bid No.: SCMU3-17/18-0340-HO: WILLOWVALE CHC GENERAL BUILDING AND STAFF ACCOMMODATION
REFURBISHMENT, PAVING AND ROADWORKS



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

Tender no:

Project title:	WILLOWVALE CHC GENERAL BUILDING AND STAFF ACCOMMODATION REFUBISHMENT, PAVING AND ROADWORKS
Tender No:	SCMU3-17/18-0340-HO

C4 Site Information

Location

The existing Willowvale CHC site, Amathole Region.

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

There is a workable distance between the staff accommodation buildings and the adjacent services buildings.

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.

PART 4: APPENDICES

C5 - DRAWINGS

WILLOWVALE CHCDRAWING and SCHEDULES

<u>DRAWING NO.</u>	<u>REVISION</u>	<u>DESCRIPTION</u>
20080-3-AD017-010-001	R01	Master Plan
20080-3-AD017-010-520	R00	Staff Accommodation 2 Floor Plan
20080-3-AD017-015-510	R00	Staff Accommodation Detail Plan
1574-35-GEN-001	P0	Site Layout Plan Detail
1574-35-RDS-010	P0	Typical Road Details
1574-17-SEW-010	P0	Typical Sewer Details
1574-35-WAT-010	P0	Typical Water Details
1574-35-STW-010	P0	Typical Stormwater Details
20080-3-AD017-100 AH	R1	Door Templates (Pg 1 - 51)
20080-3-AD017-070-033	R00	Mild Steel Gate Preambles
20080-3-AD017-070-790 to 797	R00	Mild Steel Gate Specifications (8 Pages)
20080-3-AD017-100 F	R00	Sanitary Schedule (7 Pages)
20080-3-AD017-100 G	R00	Fittings and Fixtures Schedule (4 Pages)
20080-3-AD017-42-001 to 004	R00	Pergola Details (4 pages)

NOTES:

- 1. ALL DIMENSIONS AND LEVELS TO BE CHECKED AND VERIFIED BY THE ARCHITECT PRIOR TO CONSTRUCTION.
- 2. ANY DISCREPANCY OR CONFLICT BETWEEN THE ARCHITECT'S DRAWINGS AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.
- 3. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
- 4. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
- 5. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
- 6. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
- 7. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
- 8. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
- 9. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
- 10. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

NO.	DESCRIPTION	DATE
1	REVISION	10/10/2020
2	REVISION	10/10/2020
3	REVISION	10/10/2020
4	REVISION	10/10/2020
5	REVISION	10/10/2020
6	REVISION	10/10/2020
7	REVISION	10/10/2020
8	REVISION	10/10/2020
9	REVISION	10/10/2020
10	REVISION	10/10/2020

SKETCH PLANS

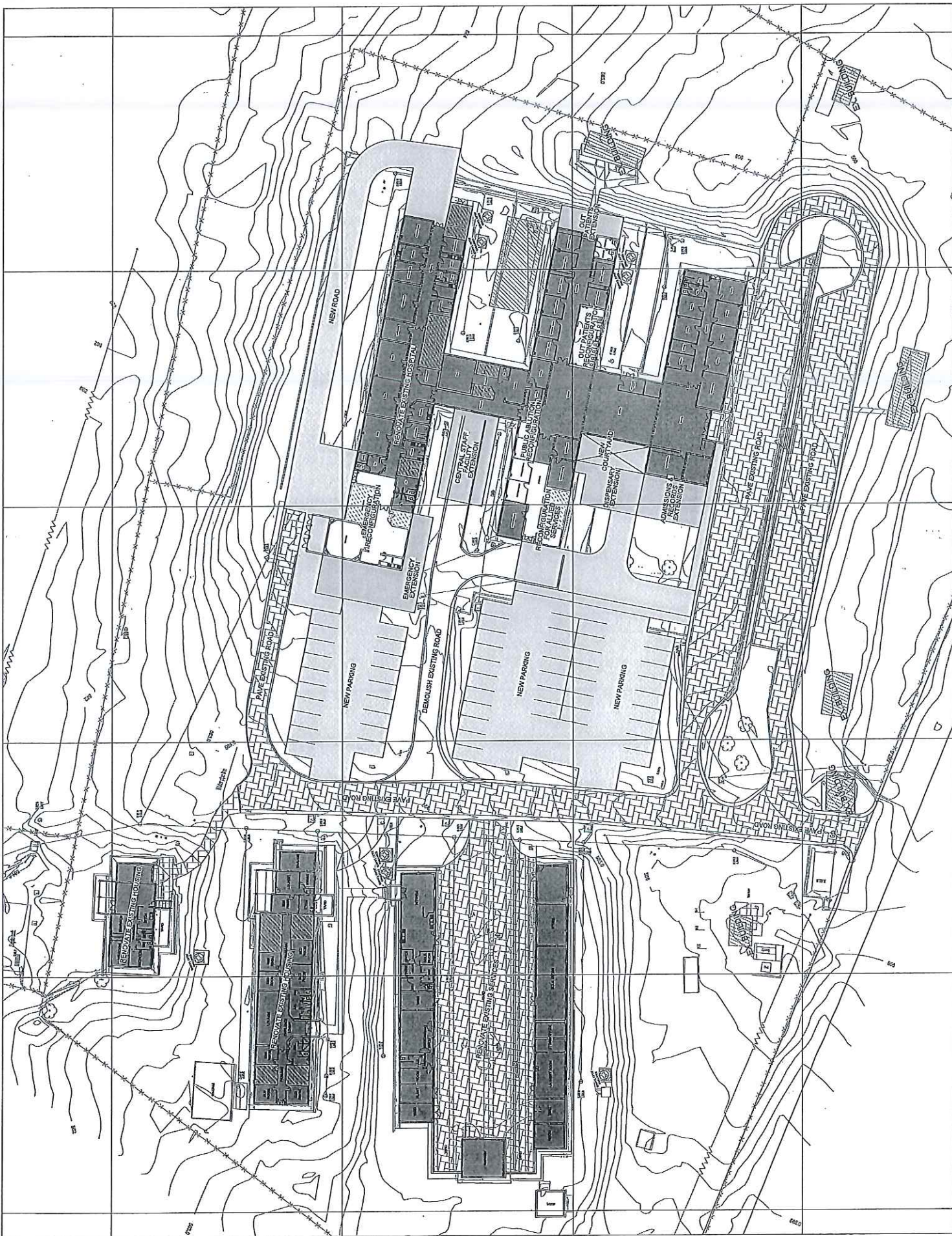
ARCHITECT: [Name]
FIRM: [Firm Name]
PROJECT: [Project Name]
DATE: [Date]

MASTER PLAN

ARCHITECT: [Name]
FIRM: [Firm Name]
PROJECT: [Project Name]
DATE: [Date]

LEGEND

1. EXISTING ROADS
2. NEW ROADS
3. EXISTING BUILDINGS
4. NEW BUILDINGS
5. EXISTING PARKING
6. NEW PARKING
7. EXISTING LANDSCAPE
8. NEW LANDSCAPE
9. EXISTING UTILITIES
10. NEW UTILITIES



1. ALL DRAWINGS AND DETAILS TO BE CHECKED ON THIS SITE AND WHERE APPLICABLE TO MATCH EXISTING STRUCTURE.
2. THE CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN THE REQUIRED CLEARANCE TO THE ADJACENT.
3. DRAWING NOT TO BE SCALED.
4. USE PROFILE COLUMNS AT 80mm CENTRES FOR BRICKWORK EXCEPT WHERE SPECIFIED DIFFERENTLY.
5. A COMPLETE SET OF DRAWINGS TO BE AVAILABLE ON SITE AT ALL TIMES.
6. THE CONTRACTOR TO BE FLUENT IN THE USE OF AN INSTRUMENTAL LEVEL.
7. THE CONTRACTOR TO BE RESPONSIBLE FOR THE CORRECT LAYOUT OF BUILDINGS ON SITE IN RELATION TO THE ADJACENT.
8. ALL DRAWINGS TO BE MADE IN CONFORMANCE WITH STRUCTURAL CODE ENFORCEMENT DETAILING AND DIMENSIONS WHERE APPLICABLE.
9. ALL WORK TO COMPLY WITH SANS 500.

[illegible]

SKETCH PLANS

PROJECT TITLE	PROJECT TITLE
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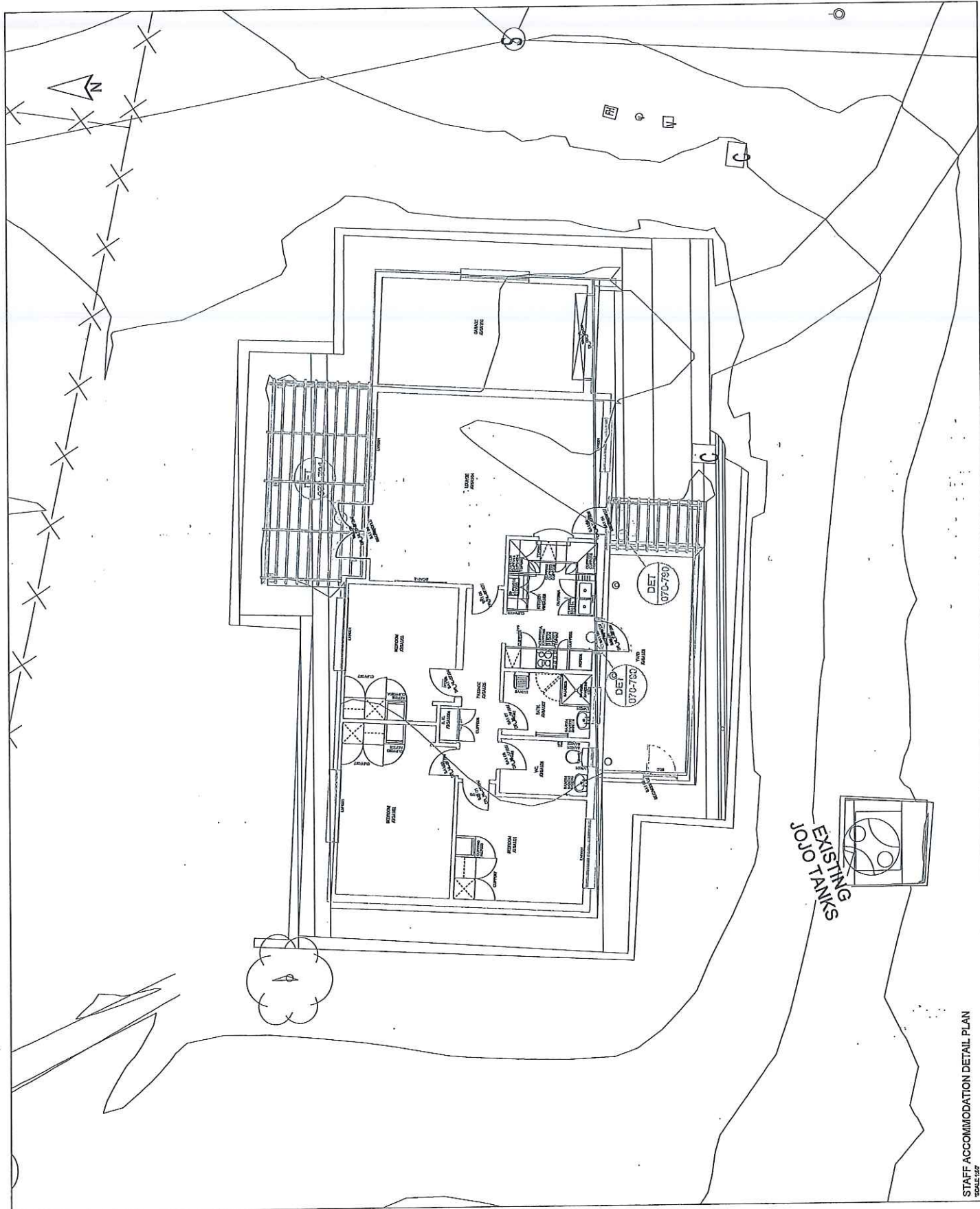
"ECDOH
FACILITY MAINTENANCE
AMATHOLE - CLUSTER 3
WILLOWVALE CHC"

STAFF ACCOMMODATION DETAIL PLAN

SCALE	150/A1	SKALA
D.G.W. No.		D.G.W. No.
REF. No.		VARW. No.
DATE		DATUM
ISSUED	8-08-17	UITGEVERE
DRAWN	CH CN	GETEKEN

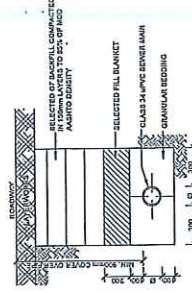
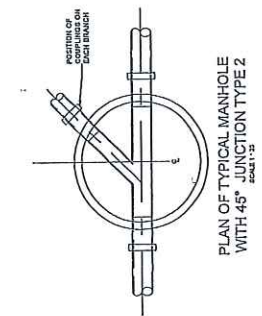


PROJECT NO: 20080-3-AD017	DRAWING NO: 20080-3-AD017-415-510	REVISION R00 6-Oct-17
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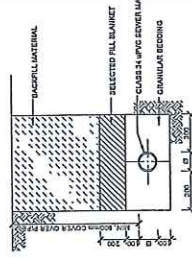


STAFF ACCOMMODATION DETAIL PLAN
SCALE 1:27

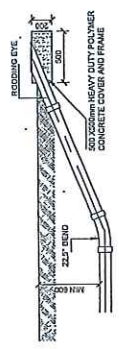




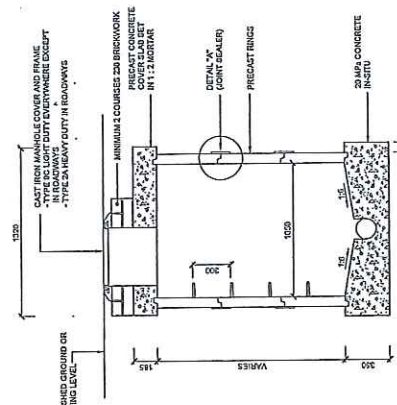
TYPICAL TRENCH DETAIL:
FLEXIBLE MAINS IN ROADWAY



TYPICAL TRENCH DETAIL:
FLEXIBLE MAINS IN VERGES
SCALE 1:20

TABLE: BACKFILL AND BEDDING

RODDING EYE ELEVATION



- NOTES:**
1. CAST FROM MANHOLE COVERS AND FRAMES TO BE CAST 508
 2. "CALCULATE STEP IRONS TO BE PROVIDED IN MANHOLES > 1.2m DEEP"
 3. STEP IRONS TO BE STAGGERED AT 90mm C/S VERTICALLY
 4. 20mm C/S HORIZONTAL, AND 20mm 30mm BELOW COVER LEVEL
 5. ALL COVER GLASS TO BE REINFORCED WITH 12.5mm TOP AND BOTH WAYS WITH 10mm COVER
 6. OPENING IN COVER GLASS TO BE OFFSET TO ONE SIDE
 7. BRICKS TO BE MIN. 20mm THICK USING 1:5 GROUT MORTAR
 8. ALL CONCRETE TO BE 20 MPa
 9. BIT-UMEN OR SIMILAR BITUMEN COMPOUND TO BE USED AS A JOINT

DETAIL OF 1000mmØ PRECAST SEWER MANHOLE
WITH BRICKWORK EXTENSION
SCALE 1:20

No	AUDITORS COMMENTS	DATE
P0	ISSUED FOR PRELIMINARY PURPOSES ONLY	SEP-2017
SUMVETOED		
DIVANN	J.L.	SEP-2017
DISCORGED	P.O.	SEP-2017
CHECKED	P.O.	SEP-2017
APPROVED		
PM REGISTRATION NO.		DATE

 LUKHOZI CONSULTING ENGINEERS (PTY) LTD PO BOX 1000 TLOKOTSI JHB 1600 TEL: 011 462 1000 FAX: 011 462 1011 E-MAIL: info@lukhozi.co.za		 Sakhifo health solutions		SAKHIWO MAINTENANCE CONSORTIUM		PROVINCE OF THE EASTERN CAPE DEPARTMENT OF HEALTH		AD017 - MILLOWALE HOSPITAL GENERAL BUILDING		DATE: JUNE SHEET: A1 REVISION	
OWNERS ADDRESS THE CLAUDET 1000 TLOKOTSI JHB 1600 241		Sakhifo		CLIENT		 PROVINCE OF THE EASTERN CAPE DEPARTMENT OF HEALTH BATHURST, 2005 Private and public entities, 0600 011 462 1000 011 462 1011 E-MAIL: info@lukhozi.co.za		AD017 - MILLOWALE HOSPITAL GENERAL BUILDING		DATE: JUNE SHEET: A1 REVISION	
SCALE		SHEET SET		SHEET 1 OF 1 SHEETS		PROJ NO		1574-17-SEW-010		PO	
AS SHOWN		CONTRACT NO		CONTRACT TITLE		CONTRACT NO		CONTRACT TITLE		CONTRACT NO	

ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 WILLOWVALE CHC		38a Stuart Street P.O. Box 762 HARRISMITH, 5980 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za		 HDG
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51

	TEMPLATE NAME AL/ETS - Explorer System Aluminium / Transom Single Door (External Doors)
DOOR NOTES	- For detail door design see door type drawing... - Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
	DOOR NUMBER -
TYPE	DOOR HBS - HBS ALUMINIUM SYSTEMS (021 534 7420) MANUFACTURER
	DOOR TYPE AL/ET - Purpose Made (Explorer System) Aluminium Panel/Door/Doors With Or Without Horizontal Transoms To Detail Drawing, To Suit Required Wind Load. All To AAAMSA Standards And Architects Approval.
	CAD BLOCK/CELL NAME AL/ETS - Explorer system Aluminium Transom Single Door
	LEAF HEIGHT 0
	LEAF WIDTH 1 0
	LEAF WIDTH 2 0
	OVER PANEL HEIGHT 0
	SIDE PANEL WIDTH 1 0
	SIDE PANEL WIDTH 2 0
	DOOR FINISH PC-AL - Polyester Powder Coated
	PC/AL - Interpon D1025 Matt Finish Powder Coating To External
	Aluminium Doors Applied Under 5 Year Guarantee.
	PC/AL - Coating To Be Applied By A Special Applicator
	Approved By Interpon. (50 – 100 Micron Thick)
	-
	-
	-
	-
	-
	-
	-
	-
	-
	VISION PANEL DETAIL N/A
	DRAWING NR.
	VISION PANEL AL-L/G - For Detail Door Design See Door Type Drawing
	GLAZING PRE - Glazing as per aluminium door preambles. All to comply with AAAMSA standards.
	VIEW PANEL FRAME N/A
	DOOR GRILL DETAIL N/A
	DRAWING NR.
	DOOR GRILL / VENTILATION N/A

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51

	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
TOLERANCE	LEAF	3
	THRESHOLD	5
FRAME	DOOR FRAME DETAIL DRAWING NR.	70-280
	FRAME MANUFACTURER	HBS - HBS ALUMINIUM SYSTEMS (021 534 7420)
	FRAME CONFIGURATION	FR-1 - If Required - Purpose Made Aluminium Window Frame. In Configuration As Shown Around Doorframe, With Or Without Opening Sections As Shown Complete With Heavy-Duty Hinges, Latches And Restrictors (Max. 100 mm)
	FRAME TYPE	K3/5-110/220 HBS - (Nuklip Shop Fronts System) Aluminium Frame With Or Without Side And Or Top Panels (Transom Size To Accommodate Transom Concealed Door Closer (Specified Elsewhere) Designed To Suit Wind Load. All To AAAMSA Standards And Architects Approval.
	FRAME FINISH	PC-AL - Polyester Powder Coated
	-	PC-AL - Interpon D1025 Matt Finish Powder Coating To External Aluminium Doors Applied Under 5 Year Guarantee.
	-	PC-AL - Coating To Be Applied By A Special Applicator Approved By Interpon. (50 - 100 Micron Thick)
	-	PC-AL - Waterproof Fume Surround With An Approved Soft Seal.
	-	PC-AL - All To AAAMSA Standards And Architects Approval.
	-	-
	-	-
	-	-
	-	-
	-	-
	FANLIGHT FRAME DETAIL DRAWING NR.	N/A
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated
	ACOUSTIC STANDARD	NR - Non Rated

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51

	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	77 - Aluminium - SD - External
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 - Door Number Plate (30mm x 100mm)

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51

	TEMPLATE NAME	Dr_BJ/49/- - Existing Door (To Be Refurbish)
DOOR NOTES	With Reference To Refurbishing Doors, Please Make Allowance For 20% Replacement On Existing Doors.	
	DOOR NUMBER	-
TYPE	DOOR	-
	MANUFACTURER	
	DOOR TYPE	Ex - Existing Door Leaf
	CAD BLOCK/CELL NAME	Dr_BJ -
	LEAF HEIGHT	0
	LEAF WIDTH 1	0
	LEAF WIDTH 2	0
	OVER PANEL HEIGHT	0
	SIDE PANEL WIDTH 1	0
	SIDE PANEL WIDTH 2	0
	DOOR FINISH	(RD578) - Plascon Wall & All To Existing Solvent Based Coated Interior Wood
	-	(RD578) - Remove Loose And Peeling Paint By Scraper Or Hand Sanding. Feather Edges And Dust Off. Spot Prime Bare Areas With Wood Primer (Unthinned).
	-	(RD578) - Ensure Surfaces Are Clean, Dry And Sound. To Determine The Moisture Content, Use A Doser Hygrometer Scale A1 - A5 (Or Equivalent) Depending On Generic Wood Type.
	-	(RD578) - Measurements Should Be <14% Before Painting. Sand Wood To A Smooth Finish With 150 Grit Paper In Direction Of Grain. Dust Off.
	-	(RD578) - 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.
	-	-
	-	-
	-	-
	-	-
	-	-
	VISION PANEL DETAIL	N/A
	DRAWING NR.	
	VISION PANEL	N/A
	GLAZING	N/A
	VIEW PANEL FRAME	N/A

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51	

	DOOR GRILL DETAIL DRAWING NR.	70-258
	DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	-
	SPECIALIST ACCESSORIES	-
TOLERANCE	LEAF	0
	THRESHOLD	0
FRAME	DOOR FRAME DETAIL DRAWING NR.	N/A
	FRAME MANUFACTURER	PM - Purpose Made By Specialist.
	FRAME CONFIGURATION	N/A
	FRAME TYPE	Ex - Existing Door Frame
	FRAME FINISH Interior Wood	(RD578) - Plascon Wall & All To Existing Solvent Based Coated
	-	(RD578) - Remove Loose And Peeling Paint By Scraper Or Hand Sanding. Feather Edges And Dust Off. Spot Prime Bare Areas With Wood Primer (Unthinned).
	-	(RD578) - Ensure Surfaces Are Clean, Dry And Sound. To Determine The Moisture Content, Use A Doser Hygrometer Scale A1 - A5 (Or Equivalent) Depending On Generic Wood Type.
	-	(RD578) - Measurements Should Be <14% Before Painting. Sand Wood To A Smooth Finish With 150 Grit Paper In Direction Of Grain. Dust Off.
	-	(RD578) - 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.
	-	-
	-	-
	-	-
	-	-
	-	-
	FANLIGHT FRAME DETAIL DRAWING NR.	-
	FANLIGHT FRAME	N/A
	GLAZING	N/A

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51	

STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated
	ACCOUSTIC STANDARD	NR - Non Rated
	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	49 - Update Existing Lockset
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 -Door Number Plate (30mm x 100mm)

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51

	TEMPLATE NAME DR_E/06/- (Double Rebate Galvanized) - Standard Toilet Cubicle Door
DOOR NOTES	Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
	DOOR NUMBER -
TYPE	DOOR S/L - Swartland (022-433 8000)
	MANUFACTURER
	DOOR TYPE 813 x 2032 (S/F)(CUT 150) - 40mm Solid Heavy Duty Door With Hardboard Laminated On Both Sides Flush Door (With Concealed Edges) - Cut 150mm Above FFI
	CAD BLOCK/CELL NAME Dr_E - (Dr014-015)
	LEAF HEIGHT 1882
	LEAF WIDTH 1 813
	LEAF WIDTH 2 0
	OVER PANEL HEIGHT 0
	SIDE PANEL WIDTH 1 0
	SIDE PANEL WIDTH 2 0
	DOOR FINISH (NW571) - Plascon Velvagio Satin To Interior New Wood
	- (NW571) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS 1)
	- (NW571) - And Coat With Woodcare Knot Seal (PK 2) And Apply One Coat
	- (NW571) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated
	- (NW571) - Within 48 Hours With A Moisture Content, Measured With A Doser
	- (NW571) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) < 14% Or Less.
	- (NW571) - Prime With One Coat Of Wood Primer (UC 2) With An Overcoating
	- (NW571) - Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin
	- (NW571) - (VLO) With 16 Hours Drying Time Between Coats,
	- (NW571) - For A Maintenance Cycle Of 7 Years In A C5 - Coastal/Marine Environment.
	VISION PANEL DETAIL N/A
	DRAWING NR.
	VISION PANEL N/A
	GLAZING N/A
	VIEW PANEL FRAME N/A
	DOOR GRILL DETAIL N/A
	DRAWING NR.
	DOOR GRILL/ VENTILATION N/A

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51
	SPECIALIST	N/A		
	ACCESSORIES	N/A		
	SPECIALIST	N/A		
	ACCESSORIES	N/A		
	SPECIALIST	N/A		
	ACCESSORIES	N/A		
	SPECIALIST	N/A		
	ACCESSORIES	N/A		
TOLERANCE	LEAF	2		
	THRESHOLD	4		
FRAME	DOOR FRAME DETAIL	70-230		
	DRAWING NR.			
	FRAME	QA - Quirk Agencies (043-726 3994)		
	MANUFACTURER			
	FRAME	N/A		
	CONFIGURATION			
	FRAME TYPE	M53/M54 - 110/220 - 1.6mm Standard Pressed Mild Steel Frame With Double Rebate Suitable For X2 Screw On Stainless Steel Ball Bearing Hinges Specified In Ironmongery Per Door Leaf And Sufficient Build In Lugs To Secure Frame - S/D-S/Swing		
	FRAME FINISH	(NW625) - Plascon Velvagio Satin To Exterior New Galvanised Steel		
	-	(NW625) - Surface To Be Dry, Sound And Clean. Apply Plascon Galvanised Iron Cleaner (GIC 1)		
	-	(NW625) - To All Bare Galvanised Areas. Allow To React For 1 Minute		
	-	(NW625) - And Rinse Off With Tap Water Using Bristle Brush Or Scotch Brite Pads To		
	-	(NW625) - Remove All Surface Contaminants, Until Surface Is Water Break-Free.		
	-	(NW625) - Prime With One Coat Of Galvanised Iron Primer (GIP 1)		
	-	(NW625) - With An Overcoating Time Of 24 Hours And Finish With Two Coats Of Velvagio Satin (VLO)		
	-	(NW625) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years		
	-	(NW625) - In A C5 - Coastal/Marine Environment.		
	-			
	FANLIGHT FRAME	N/A		
	DETAIL DRAWING NR.			
	FANLIGHT FRAME	N/A		
	GLAZING	N/A		
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan		
PERFORMANCE	FIRE RATING	NR - Non Rated		
	SMOKE RATING	NR - Non Rated		
	ACOUSTIC STANDARD	NR - Non Rated		

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Print Date :	Drawing Description:	Rev. nr.:	Job nr. :	Pages :
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51
	RADIATION PROTECTION NR - Non Rated			
FURNITURE	HAT AND COAT HOOK 70-259 DETAIL DRAWING NR.			
	IRONMONGERY 100-J SCHEDULE DRAWING NR.			
	LOCK SUITE TYPE 06 - Wooden WC/Shower - Cubicle Door - SD			
	DOOR PROTECTION N/A DETAIL DRAWING NR.			
	DOOR PROTECTION N/A TYPE			
	DOOR SIGNAGE 1 N/A			

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51

	TEMPLATE NAME Dr_EXD-SF/03/- (Existing Mild Steel Frame) - Existing Double Door To Be Refurbish (new lockset 15)	
DOOR NOTES	With Reference To Refurbishing Doors, Please Make Allowance For 20% Replacement On Existing Doors.	
	DOOR NUMBER	-
TYPE	DOOR	-
	MANUFACTURER	
	DOOR TYPE	Ex - Existing Door Leaf
	CAD BLOCK/CELL NAME	DR_EXD-SF -
	LEAF HEIGHT	0
	LEAF WIDTH 1	0
	LEAF WIDTH 2	0
	OVER PANEL HEIGHT	0
	SIDE PANEL WIDTH 1	0
	SIDE PANEL WIDTH 2	0
	DOOR FINISH	(NW571) - Plascon Velvaglo Satin To Interior New Wood
	-	(NW571) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS 1)
	-	(NW571) - And Coat With Woodcare Knot Seal (PK 2) And Apply One Coat
	-	(NW571) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated
	-	(NW571) - Within 48 Hours With A Moisture Content, Measured With A Doser
	-	(NW571) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) < 14% Or Less.
	-	(NW571) - Prime With One Coat Of Wood Primer (UC 2) With An Overcoating
	-	(NW571) - Time Of 16 Hours And Finish With Two Coats Of Velvaglo Satin
	-	(NW571) - (VLO) With 16 Hours Drying Time Between Coats,
	-	(NW571) - For A Maintenance Cycle Of 7 Years In A C5 - Coastal/Marine Environment.
	VISION PANEL DETAIL DRAWING NR.	N/A
	VISION PANEL	N/A
	GLAZING	N/A
	VIEW PANEL FRAME	N/A
	DOOR GRILL DETAIL DRAWING NR.	N/A
	DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.

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	SPECIALIST	N/A
	ACCESSORIES	
	SPECIALIST	N/A
	ACCESSORIES	
	SPECIALIST	N/A
	ACCESSORIES	
	SPECIALIST	N/A
	ACCESSORIES	
TOLERANCE	LEAF	0
	THRESHOLD	0
FRAME	DOOR FRAME DETAIL	N/A
	DRAWING NR.	
	FRAME	PM - Purpose Made By Specialist.
	MANUFACTURER	
	FRAME	N/A
	CONFIGURATION	
	FRAME TYPE	Ex - Existing Door Frame
	FRAME FINISH	(NW683) - Plascon Velvagro Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvagro Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW683) - In A C5 - Coastal/Marine Environment.
	FANLIGHT FRAME	N/A
	DETAIL DRAWING NR.	
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANC E	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated

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	ACCOUSTIC STANDARD	NR - Non Rated
	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	03 - Wooden Ward - DD
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION	N/A
	DOOR SIGNAGE 1	DNP 001 -Door Number Plate (30mm x 100mm)

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
12-Oct-17	AH - DOOR TEMPLATES	R1	20080-3-AD017	51

	TEMPLATE NAME Dr_EX-MS/49/- Existing GATE (To Be Refurbish)	
DOOR NOTES	With Reference To Refurbishing Doors, Please Make Allowance For 20% Replacement On Existing Doors.	
	DOOR NUMBER	-
TYPE	DOOR	-
	MANUFACTURER	
	DOOR TYPE	Ex - EXISTING GATE
	CAD BLOCK/CELL NAME	EX/MS
	LEAF HEIGHT	0
	LEAF WIDTH 1	0
	LEAF WIDTH 2	0
	OVER PANEL HEIGHT	0
	SIDE PANEL WIDTH 1	0
	SIDE PANEL WIDTH 2	0
	DOOR FINISH	(NW683) - Plascon Velvagio Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	N/A
	VISION PANEL DETAIL	N/A
	DRAWING NR.	
	VISION PANEL	N/A
	GLAZING	N/A
	VIEW PANEL FRAME	N/A
	DOOR GRILL DETAIL	70-258
	DRAWING NR.	
	DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
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	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	-
	SPECIALIST ACCESSORIES	-
TOLERANCE	LEAF	0
	THRESHOLD	0
FRAME	DOOR FRAME DETAIL DRAWING NR.	N/A
	FRAME MANUFACTURER	PM - Purpose Made By Specialist.
	FRAME CONFIGURATION	N/A
	FRAME TYPE	Ex - Existing Door Frame
	FRAME FINISH	(NW683) - Plascon Velvaglo Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvaglo Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	N/A
	FANLIGHT FRAME DETAIL DRAWING NR.	-
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated
	ACOUSTIC STANDARD	NR - Non Rated

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	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	49 - Update Existing Lockset
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 - Door Number Plate (30mm x 100mm)

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
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TEMPLATE NAME	Dr_NL-SF/04/ (Existing Mild Steel Frame) - Existing Door frame to Be Refurbish (new door leaf,new lockset 04)
DOOR NOTES	With Reference To Refurbishing Doors, Please Make Allowance For 20% Replacement On Existing Doors.
DOOR NUMBER	N/A
TYPE	DOOR -
MANUFACTURER	
DOOR TYPE	Ex - Existing Door Leaf
CAD BLOCK/CELL NAME	DR_NL-SF -
LEAF HEIGHT	0
LEAF WIDTH 1	0
LEAF WIDTH 2	0
OVER PANEL HEIGHT	0
SIDE PANEL WIDTH 1	0
SIDE PANEL WIDTH 2	0
DOOR FINISH	(NW571) - Plascon Velvagio Satin To Interior New Wood
-	(NW571) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS 1)
-	(NW571) - And Coat With Woodcare Knot Seal (PK 2) And Apply One Coat
-	(NW571) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated
-	(NW571) - Within 48 Hours With A Moisture Content, Measured With A Doser
-	(NW571) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) < 14% Or Less.
-	(NW571) - Prime With One Coat Of Wood Primer (UC 2) With An Overcoating
-	(NW571) - Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin
-	(NW571) - (VLO) With 16 Hours Drying Time Between Coats,
-	(NW571) - For A Maintenance Cycle Of 7 Years In A C5 - Coastal/Marine Environment.
VISION PANEL DETAIL DRAWING NR.	N/A
VISION PANEL	N/A
GLAZING	N/A
VIEW PANEL FRAME	N/A
DOOR GRILL DETAIL DRAWING NR.	N/A
DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.

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	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
TOLERANCE	LEAF	0
	THRESHOLD	0
FRAME	DOOR FRAME DETAIL DRAWING NR.	N/A
	FRAME MANUFACTURER	-
	FRAME CONFIGURATION	N/A
	FRAME TYPE	Ex - Existing Door Frame
	FRAME FINISH	(NW683) - Plascon Velvaglo Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvaglo Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW683) - In A C5 - Coastal/Marine Environment.
	FANLIGHT FRAME DETAIL DRAWING NR.	N/A
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated
	ACCOUSTIC STANDARD	NR - Non Rated

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	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	04 - Wooden Office - SD
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 -Door Number Plate 30mm x 100mm

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
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	TEMPLATE NAME	Dr_NL-SF/05/ (Existing Mild Steel Frame) - Existing Door frame to Be Refurbish (new door leaf,new lockset 04)
DOOR NOTES	With Reference To Refurbishing Doors, Please Make Allowance For 20% Replacement On Existing Doors.	
	DOOR NUMBER	N/A
TYPE	DOOR	-
	MANUFACTURER	
	DOOR TYPE	Ex - Existing Door Leaf
	CAD BLOCK/CELL NAME	DR_NL-SF -
	LEAF HEIGHT	0
	LEAF WIDTH 1	0
	LEAF WIDTH 2	0
	OVER PANEL HEIGHT	0
	SIDE PANEL WIDTH 1	0
	SIDE PANEL WIDTH 2	0
	DOOR FINISH	(NW571) - Plascon Velvaglo Satin To Interior New Wood
	-	(NW571) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS 1)
	-	(NW571) - And Coat With Woodcare Knot Seal (PK 2) And Apply One Coat
	-	(NW571) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated
	-	(NW571) - Within 48 Hours With A Moisture Content, Measured With A Doser
	-	(NW571) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) < 14% Or Less.
	-	(NW571) - Prime With One Coat Of Wood Primer (UC 2) With An Overcoating
	-	(NW571) - Time Of 16 Hours And Finish With Two Coats Of Velvaglo Satin
	-	(NW571) - (VLO) With 16 Hours Drying Time Between Coats,
	-	(NW571) - For A Maintenance Cycle Of 7 Years In A C5 - Coastal/Marine Environment.
	VISION PANEL DETAIL	N/A
	DRAWING NR.	
	VISION PANEL	N/A
	GLAZING	N/A
	VIEW PANEL FRAME	N/A
	DOOR GRILL DETAIL	N/A
	DRAWING NR.	
	DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.

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	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
TOLERANCE	LEAF	0
	THRESHOLD	0
FRAME	DOOR FRAME DETAIL DRAWING NR.	N/A
	FRAME MANUFACTURER	-
	FRAME CONFIGURATION	N/A
	FRAME TYPE	Ex - Existing Door Frame
	FRAME FINISH	(NW683) - Plascon Velvagro Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvagro Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW683) - In A C5 - Coastal/Marine Environment.
	FANLIGHT FRAME DETAIL DRAWING NR.	N/A
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated
	ACOUSTIC STANDARD	NR - Non Rated

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	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK	N/A
	DETAIL DRAWING NR.	
	IRONMONGERY	100-J
	SCHEDULE DRAWING NR.	
	LOCK SUITE TYPE	05 - Wooden Entr Door - With Closer - SD - Private Cubicle Door
	DOOR PROTECTION	N/A
	DETAIL DRAWING NR.	
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 -Door Number Plate 30mm x 100mm

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
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	TEMPLATE NAME	Dr_NL-SF/07/ (Existing Mild Steel Frame) - Existing Door frame to Be Refurbish (new door leaf,new lockset 04)
DOOR NOTES	With Reference To Refurbishing Doors, Please Make Allowance For 20% Replacement On Existing Doors.	
	DOOR NUMBER	N/A
TYPE	DOOR	
	MANUFACTURER	
	DOOR TYPE	Ex - Existing Door Leaf
	CAD BLOCK/CELL NAME	DR_NL-SF -
	LEAF HEIGHT	0
	LEAF WIDTH 1	0
	LEAF WIDTH 2	0
	OVER PANEL HEIGHT	0
	SIDE PANEL WIDTH 1	0
	SIDE PANEL WIDTH 2	0
	DOOR FINISH	(NW571) - Plascon Velvagio Satin To Interior New Wood
		(NW571) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS 1)
		(NW571) - And Coat With Woodcare Knot Seal (PK 2) And Apply One Coat
		(NW571) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated
		(NW571) - Within 48 Hours With A Moisture Content, Measured With A Doser
		(NW571) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) < 14% Or Less.
		(NW571) - Prime With One Coat Of Wood Primer (UC 2) With An Overcoating
		(NW571) - Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin
		(NW571) - (VLO) With 16 Hours Drying Time Between Coats,
		(NW571) - For A Maintenance Cycle Of 7 Years In A C5 - Coastal/Marine Environment.
	VISION PANEL DETAIL	N/A
	DRAWING NR.	
	VISION PANEL	N/A
	GLAZING	N/A
	VIEW PANEL FRAME	N/A
	DOOR GRILL DETAIL	N/A
	DRAWING NR.	
	DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.

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	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
TOLERANCE	LEAF	0
	THRESHOLD	0
FRAME	DOOR FRAME DETAIL DRAWING NR.	N/A
	FRAME MANUFACTURER	-
	FRAME CONFIGURATION	N/A
	FRAME TYPE	Ex - Existing Door Frame
	FRAME FINISH	(NW683) - Plascon Velvagio Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW683) - In A C5 - Coastal/Marine Environment.
	FANLIGHT FRAME DETAIL DRAWING NR.	N/A
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated
	ACCOUSTIC STANDARD	NR - Non Rated

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	RADIATION NR - Non Rated PROTECTION			
FURNITURE	HAT AND COAT HOOK N/A DETAIL DRAWING NR.			
	IRONMONGERY 100-J SCHEDULE DRAWING NR.			
	LOCK SUITE TYPE 07 - Wooden Ablution/Staff RM Entr Door/Sluice Ward Kit - SD			
	DOOR PROTECTION N/A DETAIL DRAWING NR.			
	DOOR PROTECTION N/A TYPE			
	DOOR SIGNAGE 1 DNP 001 -Door Number Plate 30mm x 100mm			

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	TEMPLATE NAME DR_NLTD-SF/24/- (Existing Mild Steel Frame) - Double Door Without Viewpanels	
DOOR NOTES	Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)	
	DOOR NUMBER -	
TYPE	DOOR S/L - Swartland (022-433 8000)	
	MANUFACTURER	
	DOOR TYPE 1436 X 2075-TG (H/F) - 44mm Weatherboard Flush Door Vertical T&G Hardwood Back To Back Boarding On Both Sides - Without View Panels	
	CAD BLOCK/CELL DR_NLTD-SF -	
	NAME	
	LEAF HEIGHT 2075	
	LEAF WIDTH 1 718	
	LEAF WIDTH 2 718	
	OVER PANEL HEIGHT 0	
	SIDE PANEL WIDTH 1 0	
	SIDE PANEL WIDTH 2 0	
	DOOR FINISH (NW521) - Plascon Velvagio Satin To Exterior New Wood	
	- (NW521) - Surface To Be Dry, Sound And Clean. Wash Knots	
	And Resinous Areas With Lacquer Thinners (ILS 1)	
	- (NW521) - And Coat With Woodcare Knot Seal (PK 2) And Apply	
	One Coat	
	- (NW521) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated	
	- (NW521) - Within 48 Hours With A Moisture Content, Measured	
	With A Doser	
	- (NW521) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) <	
	14% Or Less.	
	- (NW521) - Prime With One Coat Of Wood Primer (UC 2) With An	
	Overcoating	
	- (NW521) - Time Of 16 Hours And Finish With Two Coats Of	
	Velvagio Satin	
	- (NW521) - (VLO) With 16 Hours Drying Time Between Coats,	
	- (NW521) - For A Maintenance Cycle Of 3 Years In A C5 - Coastal/Marine Environment.	
	VISION PANEL DETAIL N/A	
	DRAWING NR.	
	VISION PANEL N/A	
	GLAZING N/A	
	VIEW PANEL FRAME N/A	
	DOOR GRILL DETAIL N/A	
	DRAWING NR.	

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	DOOR GRILL/ VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
TOLERANCE	LEAF	2
	THRESHOLD	4
FRAME	DOOR FRAME DETAIL DRAWING NR.	N/A
	FRAME MANUFACTURER	-
	FRAME CONFIGURATION	N/A
	FRAME TYPE	Ex - Existing Door Frame
	FRAME FINISH	(NW683) - Plascon Velvaglo Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvaglo Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW683) - In A C5 - Coastal/Marine Environment.
	FANLIGHT FRAME DETAIL DRAWING NR.	-
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANC E	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated

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	ACCOUSTIC STANDARD	NR - Non Rated
	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	24 - Wooden Ward - DD/SA
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 - Door Number Plate (30mm x 100mm)

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	TEMPLATE NAME DR_NLT-SF/28/ (Existing Mild Steel Frame) - One and a half Door Without Viewpanels (813) (With Fanlight)
DOOR NOTES	Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
	DOOR NUMBER -
TYPE	DOOR S/L - Swartland (022-433 8000)
	MANUFACTURER
	DOOR TYPE 1295 X 2032-TG - 44mm Weatherboard Flush Door Vertical T&G Hardwood Back To Back Boarding On Both Sides - Without View Panels
	CAD BLOCK/CELL DR_NLT-SF -
	NAME
	LEAF HEIGHT 2032
	LEAF WIDTH 1 813
	LEAF WIDTH 2 482
	OVER PANEL HEIGHT 0
	SIDE PANEL WIDTH 1 0
	SIDE PANEL WIDTH 2 0
	DOOR FINISH (NW521) - Plascon Velvagio Satin To Exterior New Wood
	- (NW521) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS 1)
	- (NW521) - And Coat With Woodcare Knot Seal (PK 2) And Apply One Coat
	- (NW521) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated
	- (NW521) - Within 48 Hours With A Moisture Content, Measured With A Doser
	- (NW521) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) < 14% Or Less.
	- (NW521) - Prime With One Coat Of Wood Primer (UC 2) With An Overcoating
	- (NW521) - Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin
	- (NW521) - (VLO) With 16 Hours Drying Time Between Coats,
	- (NW521) - For A Maintenance Cycle Of 3 Years In A C5 - Coastal/Marine Environment.
	VISION PANEL DETAIL N/A
	DRAWING NR.
	VISION PANEL N/A
	GLAZING N/A
	VIEW PANEL FRAME N/A
	DOOR GRILL DETAIL N/A
	DRAWING NR.

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	DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
TOLERANCE	LEAF	2
	THRESHOLD	4
FRAME	DOOR FRAME DETAIL DRAWING NR.	N/A
	FRAME MANUFACTURER	-
	FRAME CONFIGURATION	N/A
	FRAME TYPE	Ex - Existing Door Frame
	FRAME FINISH	(NW683) - Plascon Velvagro Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvagro Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW683) - In A C5 - Coastal/Marine Environment.
	FANLIGHT FRAME DETAIL DRAWING NR.	-
	FANLIGHT FRAME	FAN - Purpose Made Aluminium Sub-Frame (Sheersash 36), Seal Frame Surround With An Approved Soft Seal. All To AAAMSA Standards And Architects Approval.
	GLAZING	S - 6mm NS PVB laminate safety glass. All To Comply With AAAMSA Standards.
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated

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	ACCOUSTIC STANDARD	NR - Non Rated
	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	28 - (Wooden SD/SS) External
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 - Door Number Plate (30mm x 100mm)

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	TEMPLATE NAME DR_W/28/- (Standard Mild Steel Frame) - Single Door Without Viewpanels (Without Fanlight) (813)(EXTERNAL DOOR)	
DOOR NOTES	Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)	
	DOOR NUMBER -	
TYPE	DOOR S/L - Swartland (022-433 8000)	
	MANUFACTURER	
	DOOR TYPE 813 x 2032-TG H - 44mm Weatherboard Flush Door Horizontal T&G Hardwood Back To Back Boarding On Both Sides - Without View Panels (SD30)	
	CAD BLOCK/CELL NAME Dr_W - (DR225-226)	
	LEAF HEIGHT 2032	
	LEAF WIDTH 1 813	
	LEAF WIDTH 2 0	
	OVER PANEL HEIGHT 0	
	SIDE PANEL WIDTH 1 0	
	SIDE PANEL WIDTH 2 0	
	DOOR FINISH (NW555) - Plascon Woodcare Wood Preservative To Exterior New Wood.	
	- (NW555) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS1)	
	- (NW555) - And Coat With Woodcare Knot Seal (PK2) And Apply One Coat	
	- (NW555) - Of Plascon Woodcare Pretreatment (WWP1), Overcoated	
	- (NW555) - With 48 Hours With A Moisture Content, Measured With A Doser	
	- (NW555) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) <14% Or Less.	
	- (NW555) - Prime With One Coat Of Woodcare Wood Preservative (FPR) With An Overcoating	
	- (NW555) - Time Of 24 Hours And Finish With Two Coats Of Woodcare Wood Preservative (FPR)	
	- (NW555) - With 24 Hour Dry Time Between Coats, For a Maintenance Cycle Of	
	- (NW555) - 1 Years In A C5 Coastal/Marine Environment.	
	VISION PANEL DETAIL N/A	
	DRAWING NR.	
	VISION PANEL N/A	
	GLAZING N/A	
	VIEW PANEL FRAME N/A	
	DOOR GRILL DETAIL 70-258	
	DRAWING NR.	
	DOOR GRILL / VENTILATION ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.	

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	SPECIALIST	N/A
	ACCESSORIES	
	SPECIALIST	N/A
	ACCESSORIES	
	SPECIALIST	N/A
	ACCESSORIES	
	SPECIALIST	N/A
	ACCESSORIES	
TOLERANCE	LEAF	2
	THRESHOLD	4
FRAME	DOOR FRAME DETAIL	70-230
	DRAWING NR.	
	FRAME	QA - Quirk Agencies (043-726 3994)
	MANUFACTURER	
	FRAME	N/A
	CONFIGURATION	
	FRAME TYPE	M53/M54 - 110/220 - 1.6mm Standard Pressed Mild Steel Frame With Double Rebate Suitable For X2 Screw On Stainless Steel Ball Bearing Hinges Specified In Ironmongery Per Door Leaf And Sufficient Build In Lugs To Secure Frame - S/D-S/Swing
	FRAME FINISH	(NW683) - Plascon Velvaglo Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvaglo Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW683) - In A C5 - Coastal/Marine Environment.
	FANLIGHT FRAME	N/A
	DETAIL DRAWING NR.	
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated
	SMOKE RATING	NR - Non Rated

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	ACCOUSTIC STANDARD	NR - Non Rated
	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK	70-259
	DETAIL DRAWING NR.	
	IRONMONGERY	100-J
	SCHEDULE DRAWING NR.	
	LOCK SUITE TYPE	28 - (Wooden SD/SS) External
	DOOR PROTECTION	N/A
	DETAIL DRAWING NR.	
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 - Door Number Plate (30mm x 100mm)

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	TEMPLATE NAME	RS_PU - Slatted Roll-Up Door (Push-up)
DOOR NOTES	- For detail door design see door type drawing. - Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)	
	DOOR NUMBER	-
TYPE	DOOR	R/S - Purpose Made by Serranda (011 - 494 5809)
	MANUFACTURER	
	DOOR TYPE	RS_PU (Push-Up) - Roll-Up Serranda Series 2000 galvanised mild steel push-up 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening (size to be confirmed) high with overhead box size to be confirmed) high
	CAD BLOCK/CELL NAME	Dr_RS_PU - (Dr022)
	LEAF HEIGHT	0
	LEAF WIDTH 1	0
	LEAF WIDTH 2	0
	OVER PANEL HEIGHT	0
	SIDE PANEL WIDTH 1	0
	SIDE PANEL WIDTH 2	0
	DOOR FINISH	PC/G - Polyester Powder Coated
	-	PC/G - Interpon D1025 Matt Finish Powder Coating To External Galvanised Mild Steel Doors Under 5 Year Guarantee.
	-	PC/G - Coating To Be Applied By A Special Applicator Approved By Interpon. (50 - 100 Micron Thick)
	-	N/A
	-	N/A
	-	N/A
	-	N/A
	-	N/A
	-	N/A
	-	N/A
	VISION PANEL DETAIL	N/A
	DRAWING NR.	
	VISION PANEL	N/A
	GLAZING	N/A
	VIEW PANEL FRAME	N/A
	DOOR GRILL DETAIL	-
	DRAWING NR.	

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	DOOR GRILL / VENTILATION	N/A
	SPECIALIST ACCESSORIES	RS_PU - Standard bottom rail, 75mm wide guides, extruded aluminium T-bar with rubber seal.
	SPECIALIST ACCESSORIES	RS_PU - Powder coated ancillary components including 4,5mm thick end plates, guide rails,
	SPECIALIST ACCESSORIES	RS_PU - slide bolt and guide lock, canopy cover, fixed to concrete jambs and structural steel beam.
	SPECIALIST ACCESSORIES	RS_PU - Push-up operated as specified by Specialist.
	SPECIALIST ACCESSORIES	N/A
TOLERANCE	LEAF	0
	THRESHOLD	0
FRAME	DOOR FRAME DETAIL DRAWING NR.	N/A
	FRAME MANUFACTURER	R/S - Purpose Made by Serranda (011 - 494 5809)
	FRAME CONFIGURATION	N/A
	FRAME TYPE	Special - Purpose Made By Specialist
	FRAME FINISH	PC-G - Polyester Powder Coated
	-	PC-G - Interpon D1025 Matt Finish Powder Coating To External Galvanised Mild Steel Doors Under 5 Year Guarantee.
	-	PC-G - Coating To Be Applied By A Special Applicator Approved By Interpon. (50 – 100 Micron Thick)
	-	PC-G - Waterproof Fume Surround With An Approved Soft Seal.
	-	PC-G - All To AAAMSA Standards And Architects Approval.
	-	N/A
	-	N/A
	-	N/A
	-	N/A
	-	N/A
	FANLIGHT FRAME DETAIL DRAWING NR.	-
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated

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	SMOKE RATING	NR - Non Rated
	ACCOUSTIC STANDARD	NR - Non Rated
	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	08 - Factory Fitted Lock Sets
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	-
	DOOR SIGNAGE 1	DNP 001 - Door Number Plate (30mm x 100mm)

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	TEMPLATE NAME DR_V/04/- (Standard Mild Steel Frame) - Single Door Without Viewpanels (813) (Without Fanlight)
DOOR NOTES	Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
	DOOR NUMBER -
TYPE	DOOR S/L - Swartland (022-433 8000)
	MANUFACTURER
	DOOR TYPE 813 X 2032 (S/F) - 40mm Solid Heavy Duty Door With Hardboard Laminated On Both Sides Flush Door (With Concealed Edges) - Without View Panels
	CAD BLOCK/CELL Dr_V - (Dr036-039)
	NAME
	LEAF HEIGHT 2032
	LEAF WIDTH 1 813
	LEAF WIDTH 2 0
	OVER PANEL HEIGHT 0
	SIDE PANEL WIDTH 1 0
	SIDE PANEL WIDTH 2 0
	DOOR FINISH (NW571) - Plascon Velvagio Satin To Interior New Wood
	- (NW571) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS 1)
	- (NW571) - And Coat With Woodcare Knot Seal (PK 2) And Apply One Coat
	- (NW571) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated
	- (NW571) - Within 48 Hours With A Moisture Content, Measured With A Doser
	- (NW571) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) < 14% Or Less.
	- (NW571) - Prime With One Coat Of Wood Primer (UC 2) With An Overcoating
	- (NW571) - Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin
	- (NW571) - (VLO) With 16 Hours Drying Time Between Coats,
	- (NW571) - For A Maintenance Cycle Of 7 Years In A C5 - Coastal/Marine Environment.
	VISION PANEL DETAIL N/A
	DRAWING NR.
	VISION PANEL N/A
	GLAZING N/A
	VIEW PANEL FRAME N/A
	DOOR GRILL DETAIL 70-258
	DRAWING NR.

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	DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
TOLERANCE	LEAF	2
	THRESHOLD	4
FRAME	DOOR FRAME DETAIL DRAWING NR.	70-230
	FRAME MANUFACTURER	QA - Quirk Agencies (043-726 3994)
	FRAME CONFIGURATION	N/A
	FRAME TYPE	M53/M54 - 110/220 - 1.6mm Standard Pressed Mild Steel Frame With Double Rebate Suitable For X2 Screw On Stainless Steel Ball Bearing Hinges Specified In Ironmongery Per Door Leaf And Sufficient Build In Lugs To Secure Frame - S/D-S/Swing
	FRAME FINISH	(NW683) - Plascon Velvaglo Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvaglo Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW683) - In A C5 - Coastal/Marine Environment.
	FANLIGHT FRAME DETAIL DRAWING NR.	N/A
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated

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	SMOKE RATING	NR - Non Rated
	ACCOUSTIC STANDARD	NR - Non Rated
	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	04 - Wooden Office - SD
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 - Door Number Plate (30mm x 100mm)

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	TEMPLATE NAME DR_V/05/- (Standard Mild Steel Frame) - Single Door Without Viewpanels (813) (Without Fanlight)	
DOOR NOTES	Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)	
	DOOR NUMBER -	
TYPE	DOOR S/L - Swartland (022-433 8000)	
	MANUFACTURER	
	DOOR TYPE 813 X 2032 (S/F) - 40mm Solid Heavy Duty Door With Hardboard Laminated On Both Sides Flush Door (With Concealed Edges) - Without View Panels	
	CAD BLOCK/CELL NAME Dr_V - (Dr036-039)	
	LEAF HEIGHT 2032	
	LEAF WIDTH 1 813	
	LEAF WIDTH 2 0	
	OVER PANEL HEIGHT 0	
	SIDE PANEL WIDTH 1 0	
	SIDE PANEL WIDTH 2 0	
	DOOR FINISH (NW571) - Plascon Velvagio Satin To Interior New Wood	
	- (NW571) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS 1)	
	- (NW571) - And Coat With Woodcare Knot Seal (PK 2) And Apply One Coat	
	- (NW571) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated	
	- (NW571) - Within 48 Hours With A Moisture Content, Measured With A Doser	
	- (NW571) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) < 14% Or Less.	
	- (NW571) - Prime With One Coat Of Wood Primer (UC 2) With An Overcoating	
	- (NW571) - Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin	
	- (NW571) - (VLO) With 16 Hours Drying Time Between Coats,	
	- (NW571) - For A Maintenance Cycle Of 7 Years In A C5 - Coastal/Marine Environment.	
	VISION PANEL DETAIL N/A	
	DRAWING NR.	
	VISION PANEL N/A	
	GLAZING N/A	
	VIEW PANEL FRAME N/A	
	DOOR GRILL DETAIL 70-258	
	DRAWING NR.	

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	DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.			
	SPECIALIST ACCESSORIES	N/A			
	SPECIALIST ACCESSORIES	N/A			
	SPECIALIST ACCESSORIES	N/A			
	SPECIALIST ACCESSORIES	N/A			
	SPECIALIST ACCESSORIES	N/A			
	SPECIALIST ACCESSORIES	N/A			
TOLERANCE	LEAF	2			
	THRESHOLD	4			
FRAME	DOOR FRAME DETAIL DRAWING NR.	70-230			
	FRAME MANUFACTURER	QA - Quirk Agencies (043-726 3994)			
	FRAME CONFIGURATION	N/A			
	FRAME TYPE	M53/M54 - 110/220 - 1.6mm Standard Pressed Mild Steel Frame With Double Rebate Suitable For X2 Screw On Stainless Steel Ball Bearing Hinges Specified In Ironmongery Per Door Leaf			
	FRAME FINISH	(NW683) - Plascon Velvagio Satin To Exterior New Mild Steel.			
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)			
	-	(NW683) - With Bristle Brush Or Brillo Pads.			
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.			
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½			
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4			
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)			
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin (VLO)			
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years			
	-	(NW683) - In A C5 - Coastal/Marine Environment.			
	FANLIGHT FRAME DETAIL DRAWING NR.	N/A			
	FANLIGHT FRAME	N/A			
	GLAZING	N/A			
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan			
PERFORMANCE	FIRE RATING	NR - Non Rated			
	SMOKE RATING	NR - Non Rated			

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	ACCOUSTIC STANDARD	NR - Non Rated
	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	05 - Wooden Entr Door - With Closer - SD - Private Cubicle Door
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 - Door Number Plate (30mm x 100mm)

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	TEMPLATE NAME DR_V/07/- (Standard Mild Steel Frame) - Single Door Without Viewpanels (813) (Without Fanlight)	
DOOR NOTES	Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)	
	DOOR NUMBER -	
TYPE	DOOR S/L - Swartland (022-433 8000)	
	MANUFACTURER	
	DOOR TYPE 813 X 2032 (S/F) - 40mm Solid Heavy Duty Door With Hardboard Laminated On Both Sides Flush Door (With Concealed Edges) - Without View Panels	
	CAD BLOCK/CELL NAME Dr_V - (Dr036-039)	
	LEAF HEIGHT 2032	
	LEAF WIDTH 1 813	
	LEAF WIDTH 2 0	
	OVER PANEL HEIGHT 0	
	SIDE PANEL WIDTH 1 0	
	SIDE PANEL WIDTH 2 0	
	DOOR FINISH (NW571) - Plascon Velvagio Satin To Interior New Wood	
	- (NW571) - Surface To Be Dry, Sound And Clean. Wash Knots And Resinous Areas With Lacquer Thinners (ILS 1)	
	- (NW571) - And Coat With Woodcare Knot Seal (PK 2) And Apply One Coat	
	- (NW571) - Of Plascon Woodcare Pretreatment (WWP 1), Overcoated	
	- (NW571) - Within 48 Hours With A Moisture Content, Measured With A Doser	
	- (NW571) - Hygrometer (Or Equivalent), Of BD 2 Scale (A1-A5) < 14% Or Less.	
	- (NW571) - Prime With One Coat Of Wood Primer (UC 2) With An Overcoating	
	- (NW571) - Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin	
	- (NW571) - (VLO) With 16 Hours Drying Time Between Coats,	
	- (NW571) - For A Maintenance Cycle Of 7 Years In A C5 - Coastal/Marine Environment.	
	VISION PANEL DETAIL N/A	
	DRAWING NR.	
	VISION PANEL N/A	
	GLAZING N/A	
	VIEW PANEL FRAME N/A	
	DOOR GRILL DETAIL 70-258	
	DRAWING NR.	

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	DOOR GRILL / VENTILATION	ME - If Required, For Installation Guide Refer To Detail Drawing. For Louvre Size Refer To Mechanical Engineer Detail Drawings.
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
	SPECIALIST ACCESSORIES	N/A
TOLERANCE	LEAF	2
	THRESHOLD	4
FRAME	DOOR FRAME DETAIL DRAWING NR.	70-230
	FRAME MANUFACTURER	QA - Quirk Agencies (043-726 3994)
	FRAME CONFIGURATION	N/A
	FRAME TYPE	M53/M54 - 110/220 - 1.6mm Standard Pressed Mild Steel Frame With Double Rebate Suitable For X2 Screw On Stainless Steel Ball Bearing Hinges Specified In Ironmongery Per Door Leaf And Sufficient Build In Lugs To Secure Frame - S/D-S/Swing
	FRAME FINISH	(NW683) - Plascon Velvagio Satin To Exterior New Mild Steel.
	-	(NW683) - Surface To Be Clean And Dry. Remove Surface Contaminants Using Plascon Aquasolv Degreaser (GR 1)
	-	(NW683) - With Bristle Brush Or Brillo Pads.
	-	(NW683) - Rinse Thoroughly With Tap Water Until Surface Is Water Break-Free.
	-	(NW683) - Remove Rust And Millscale By Abrasive Blasting To ISO 8501 - 01:1988 - Sa2½
	-	(NW683) - By Hand/Mechanical Wire Brushing To St3 Of The Same Standard. Allow To Dry Completely And Prime Within 4 Hours Of Cleaning.
	-	(NW683) - Prime With One Coat Of Metal Primer (UC 501)
	-	(NW683) - With An Overcoating Time Of 16 Hours And Finish With Two Coats Of Velvagio Satin (VLO)
	-	(NW683) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW683) - In A C5 - Coastal/Marine Environment.
	FANLIGHT FRAME DETAIL DRAWING NR.	N/A
	FANLIGHT FRAME	N/A
	GLAZING	N/A
STRUCTURE	WALL TYPE	B/W - Brick Wall - Thickness As Shown On Plan
PERFORMANCE	FIRE RATING	NR - Non Rated

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	SMOKE RATING	NR - Non Rated
	ACCOUSTIC STANDARD	NR - Non Rated
	RADIATION PROTECTION	NR - Non Rated
FURNITURE	HAT AND COAT HOOK DETAIL DRAWING NR.	N/A
	IRONMONGERY SCHEDULE DRAWING NR.	100-J
	LOCK SUITE TYPE	07 - Wooden Ablution/Staff RM Entr Door/Sluice Ward Kit - SD
	DOOR PROTECTION DETAIL DRAWING NR.	N/A
	DOOR PROTECTION TYPE	N/A
	DOOR SIGNAGE 1	DNP 001 - Door Number Plate (30mm x 100mm)

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	TEMPLATE NAME	SEC/MSD/12/ - Security Mild Steel Double Door
DOOR NOTES	Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)	
	DOOR NUMBER	-
TYPE	DOOR	-
	MANUFACTURER	
	DOOR TYPE	Sec - Purpose Made By Specialist As On Drawing
	CAD BLOCK/CELL NAME	SEC/MSS - Mild Steel Single Door
	LEAF HEIGHT	0
	LEAF WIDTH 1	0
	LEAF WIDTH 2	0
	OVER PANEL HEIGHT	0
	SIDE PANEL WIDTH 1	0
	SIDE PANEL WIDTH 2	0
	DOOR FINISH	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	VISION PANEL DETAIL	-
	DRAWING NR.	
	VISION PANEL	-
	GLAZING	N/A
	VIEW PANEL FRAME	N/A
	DOOR GRILL DETAIL	-
	DRAWING NR.	
	DOOR GRILL / VENTILATION	-

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	SPECIALIST ACCESSORIES	-			
	SPECIALIST ACCESSORIES	-			
	SPECIALIST ACCESSORIES	-			
	SPECIALIST ACCESSORIES	-			
	SPECIALIST ACCESSORIES	-			
	ACCESSORIES				
TOLERANCE	LEAF	0			
	THRESHOLD	0			
FRAME	DOOR FRAME DETAIL	-			
	DRAWING NR.				
	FRAME MANUFACTURER	QA - Quirk Agencies (043-726 3994)			
	FRAME CONFIGURATION	FR/SL1 - Purpose Made Mild Steel Rectangular Tube Frame Welded Into Profile As Shown On Plan Complete With Patented Glazing Beads As By Gl Glaze To Suit Glazing Thickness, Installed Strictly To Manufacturers Specifications.			
	FRAME TYPE	MS/F1 - 1.6mm Purposes Made Chamfered Pressed Mild Steel Frame Suitable For X2 Screw On Stainless Steel Ball Bearing Hinges Per Door Leaf, Welded To Mild Steel Sub Frame To Detail Drawing			
	FRAME FINISH	(NW625) - Plascon Velvagio Satin To Exterior New Galvanised Steel			
	-	-			
	-	-			
	-	-			
	-	-			
	-	-			
	-	-			
	-	-			
	-	-			
	-	-			
	FANLIGHT FRAME	-			
	DETAIL DRAWING NR.				
	FANLIGHT FRAME	-			
	GLAZING	-			
STRUCTURE	WALL TYPE	-			
PERFORMANCE	FIRE RATING	-			

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	SMOKE RATING	-
	ACCOUSTIC STANDARD	-
	RADIATION PROTECTION	-
FURNITURE	HAT AND COAT HOOK	-
	DETAIL DRAWING NR.	
	IRONMONGERY	-
	SCHEDULE DRAWING NR.	
	LOCK SUITE TYPE	12 - Double/Single Mild Steel Gates-Internal
	DOOR PROTECTION	-
	DETAIL DRAWING NR.	
	DOOR PROTECTION TYPE	-
	DOOR SIGNAGE 1	-

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	TEMPLATE NAME	SEC/MSS/12/ - Security Mild Steel Single Door
DOOR NOTES	Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)	
	DOOR NUMBER	-
TYPE	DOOR	-
	MANUFACTURER	
	DOOR TYPE	Sec - Purpose Made By Specialist As On Drawing
	CAD BLOCK/CELL NAME	SEC/MSS - Mild Steel Single Door
	LEAF HEIGHT	0
	LEAF WIDTH 1	0
	LEAF WIDTH 2	0
	OVER PANEL HEIGHT	0
	SIDE PANEL WIDTH 1	0
	SIDE PANEL WIDTH 2	0
	DOOR FINISH	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	VISION PANEL DETAIL	-
	DRAWING NR.	
	VISION PANEL	-
	GLAZING	N/A
	VIEW PANEL FRAME	N/A
	DOOR GRILL DETAIL	-
	DRAWING NR.	
	DOOR GRILL / VENTILATION	-

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	SPECIALIST	-
	ACCESSORIES	-
	SPECIALIST	-
	ACCESSORIES	-
	SPECIALIST	-
	ACCESSORIES	-
	SPECIALIST	-
	ACCESSORIES	-
	ACCESSORIES	-
TOLERANCE	LEAF	0
	THRESHOLD	0
FRAME	DOOR FRAME DETAIL	-
	DRAWING NR.	-
	FRAME	QA - Quirk Agencies (043-726 3994)
	MANUFACTURER	-
	FRAME CONFIGURATION	FR/SL1 - Purpose Made Mild Steel Rectangular Tube Frame Welded Into Profile As Shown On Plan Complete With Patented Glazing Beads As By GI Glaze To Suit Glazing Thickness, Installed Strictly To Manufacturers Specifications.
	FRAME TYPE	MS/F1 - 1.6mm Purposes Made Chamfered Pressed Mild Steel Frame Suitable For X2 Screw On Stainless Steel Ball Bearing Hinges Per Door Leaf, Welded To Mild Steel Sub Frame To Detail Drawing
	FRAME FINISH	(NW625) - Plascon Velvagio Satin To Exterior New Galvanised Steel
	-	(NW625) - Surface To Be Dry, Sound And Clean. Apply Plascon Galvanised Iron Cleaner (GIC 1)
	-	(NW625) - To All Bare Galvanised Areas. Allow To React For 1 Minute
	-	(NW625) - And Rinse Off With Tap Water Using Bristle Brush Or Scotch Brite Pads To
	-	(NW625) - Remove All Surface Contaminants, Until Surface Is Water Break-Free.
	-	(NW625) - Prime With One Coat Of Galvanised Iron Primer (GIP 1)
	-	(NW625) - With An Overcoating Time Of 24 Hours And Finish With Two Coats Of Velvagio Satin (VLO)
	-	(NW625) - With 16 Hours Drying Time Between Coats, For A Maintenance Cycle Of 3 Years
	-	(NW625) - In A C5 - Coastal/Marine Environment.
	-	-
	FANLIGHT FRAME	-
	DETAIL DRAWING NR.	-
	FANLIGHT FRAME	-
	GLAZING	-
STRUCTURE	WALL TYPE	-
PERFORMANCE	FIRE RATING	-

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	SMOKE RATING	-
	ACCOUSTIC STANDARD	-
	RADIATION PROTECTION	-
FURNITURE	HAT AND COAT HOOK	-
	DETAIL DRAWING NR.	
	IRONMONGERY	-
	SCHEDULE DRAWING NR.	
	LOCK SUITE TYPE	12 - Double/Single Mild Steel Gates-Internal
	DOOR PROTECTION	-
	DETAIL DRAWING NR.	
	DOOR PROTECTION TYPE	-
	DOOR SIGNAGE 1	-

Mild Steel Gate Preambles:

Gate Description:

Purpose- made mild steel Gate, cut and welded into profile as shown. As per detail drawing. (Member sizes as indicated)

Gate Frame Description:

Purpose- made mild steel frame, cut and welded into profile as shown. As per detail drawing. (Member sizes as indicated)

Gate Finish:

Hot dipped galvanized complete with polyester powder coating (50 - 100 μ thick). Suitable for external galvanized service

Gate Frame Finish:

Hot dipped galvanized complete with polyester powder coating (50 - 100 μ thick). Suitable for external galvanized service

GENERAL NOTES:

1. Please ensure that frames are not installed premature during wet trade. Further it is the Contractor full responsibility to ensure that all frames is well protected during construction phase to avoid any permanent damage.
2. All dimension 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 mild steel shall be galvanized.
5. Miscellaneous material shall be galvanized.
6. Install all Gates in accordance with the drawings, specifications, instructions, and as specified.

DRAWING DESCRIPTION:

SCALE:

MILD STEEL GATE PREAMBLE

NTS

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PROJECT TITLE

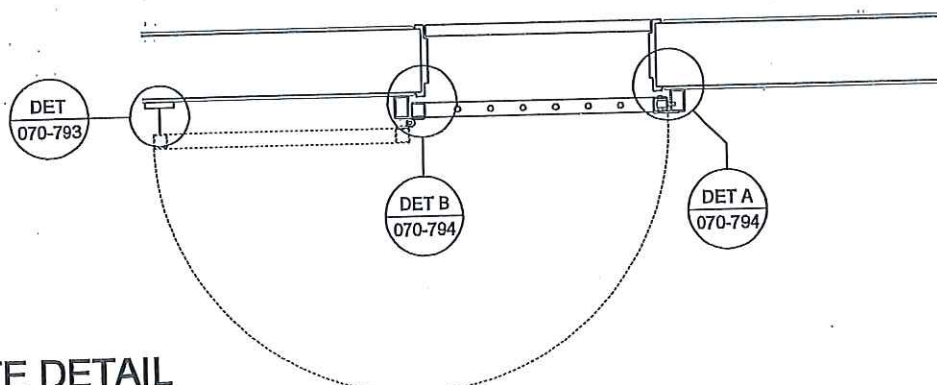
"ECDOH
FACILITY MAINTENANCE
AMATHOLE - CLUSTER 3
WILLOWVALE CHC"

PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:	/	R00 5-Oct-17	20080-3-AD017- 070-033
DATE:			
ISSUED:	5-Oct-17		

HOSPITAL DESIGN GROUP

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E-mail: hdg@hdg.co.za





'SCALE 1:25'

DRAWING DESCRIPTION:

SCALE:

1:25

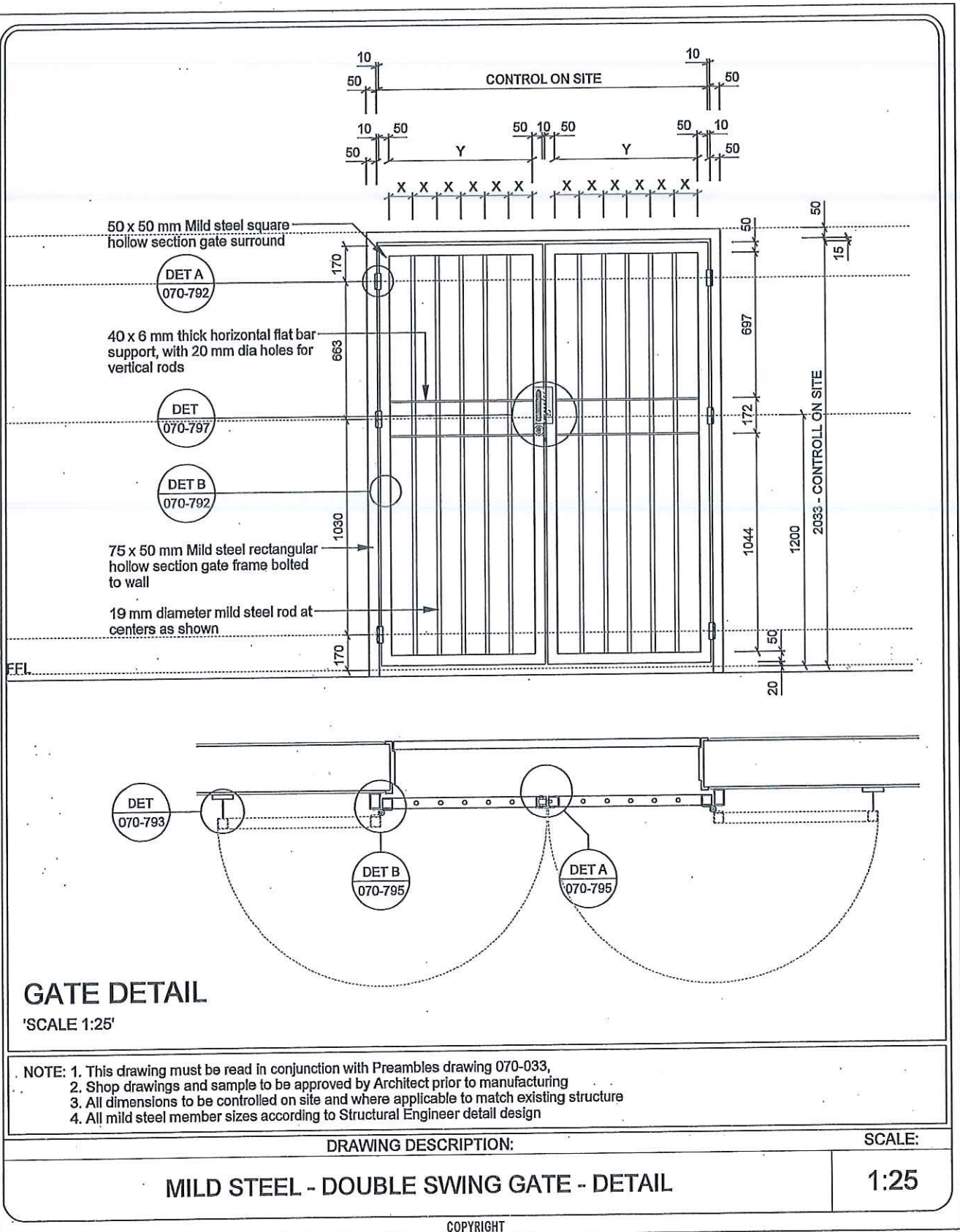
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"ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 WILLOWVALE CHC"			
PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:	CN /	R00 5-Oct-17	20080-3-AD017- 070-790
DATE:			
ISSUED:	5-Oct-17		

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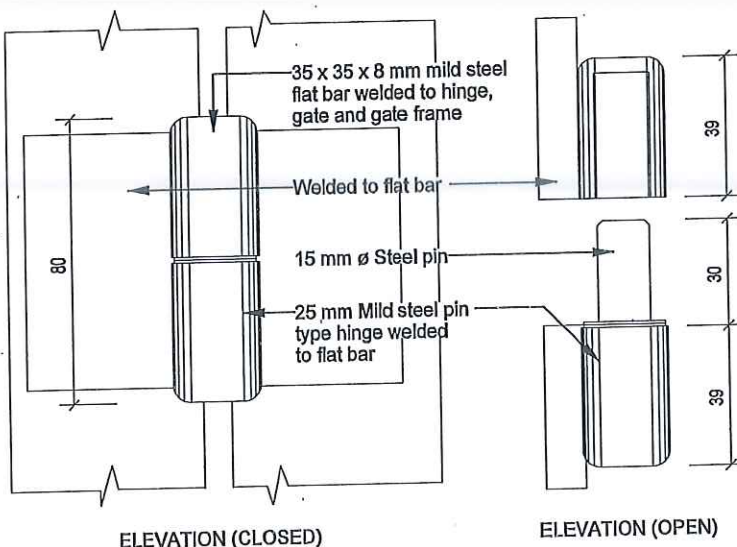
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PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:	/	R00 5-Oct-17	20080-3-AD017- 070-791
DATE:			
ISSUED:	5-Oct-17		

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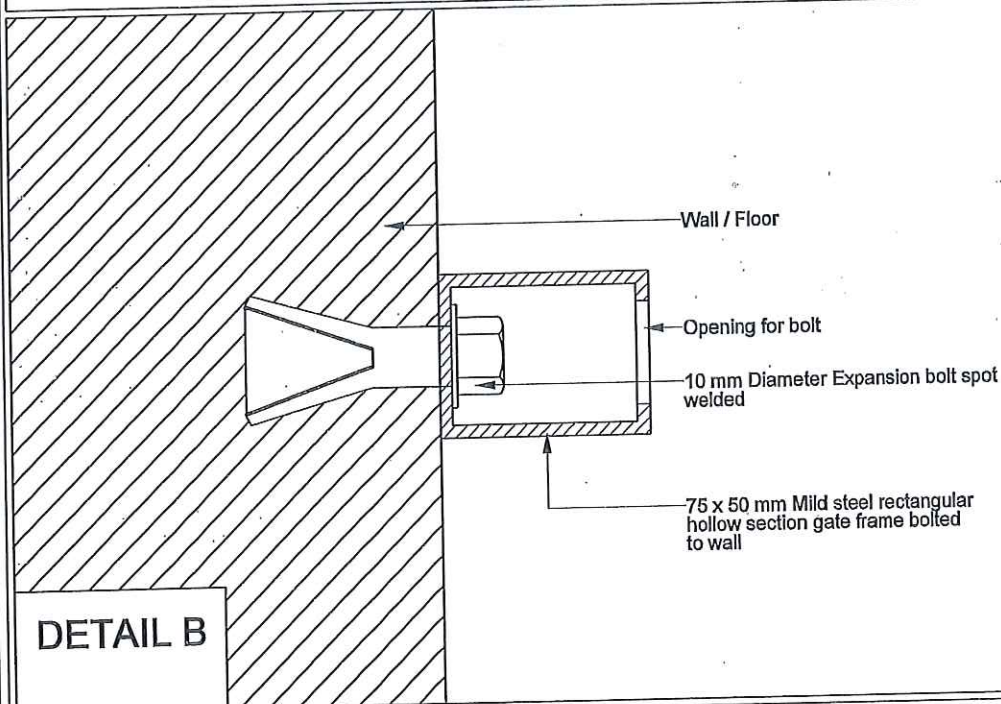
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E-mail: hdg@hdg.co.za



Note:
Top hinge to be inverted to
prevent gate from being lifted
off frame.



DETAIL A



DETAIL B

NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-033,
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:

MILD STEEL - SWING GATE - HINGE AND FIXING DETAIL

1:2

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PROJECT TITLE

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AMATHOLE - CLUSTER 3
WILLOWVALE CHC"

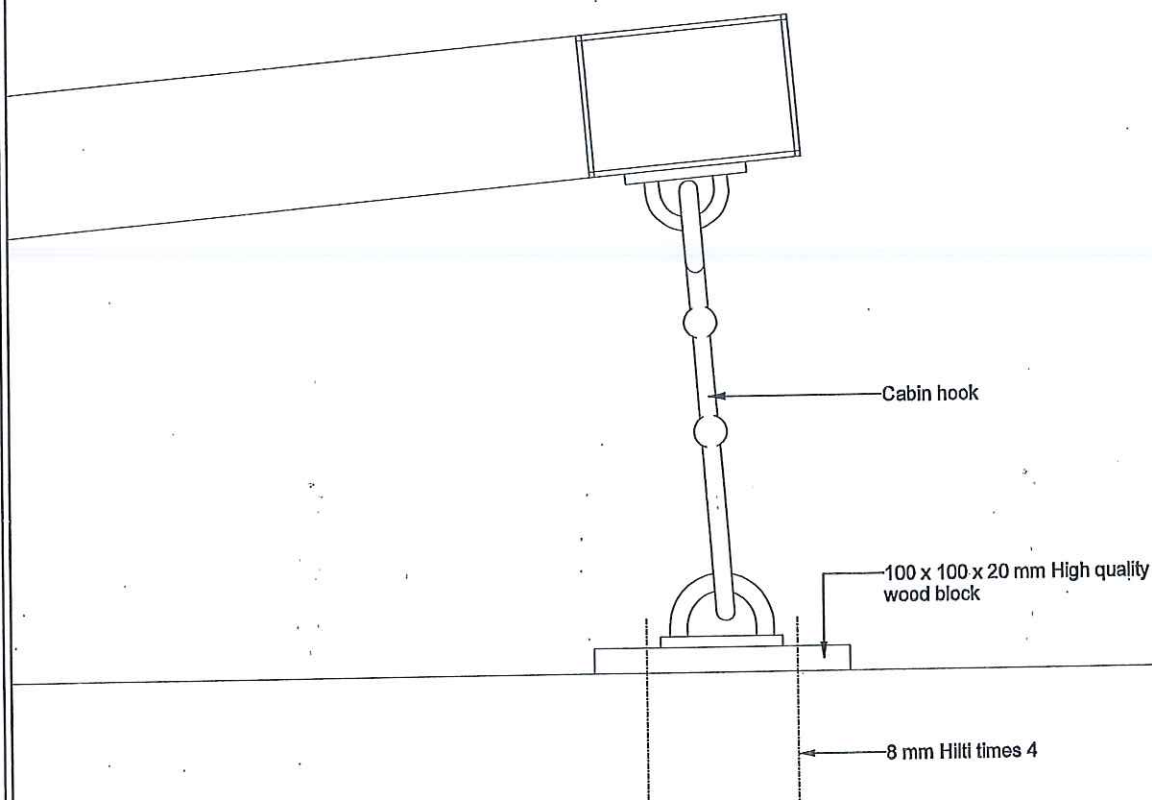
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DRAWN:	/	R00	20080-3-AD017-
DATE:		5-Oct-17	070-792
ISSUED:	5-Oct-17		

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**DETAIL**

'SCALE 1:2'

- NOTE: 1. This drawing must be read in conjunction with Preamble's drawing 070-033,
 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:****MILD STEEL - SWING GATE - HOLDER DETAIL****1:2**

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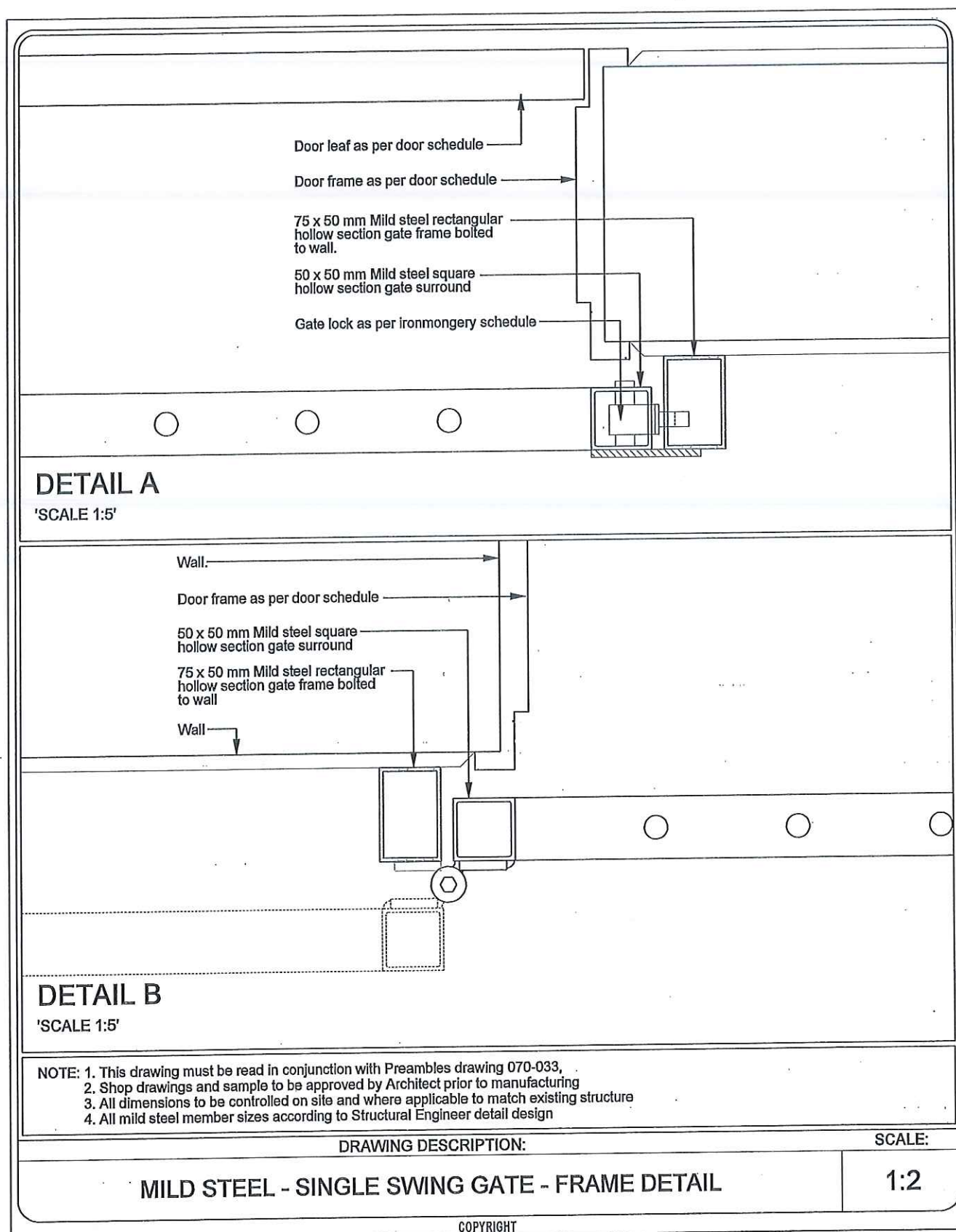
PROJECT TITLE

"ECDOH
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 AMATHOLE - CLUSTER 3
 WILLOWVALE CHC"

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PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:	/	R00 5-Oct-17	20080-3-AD017-070-793
DATE:			
ISSUED:	5-Oct-17		



PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 "WILLOWVALE CHC"			
PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:	/	R00 5-Oct-17	20080-3-AD017- 070-794
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Door leaf as per door schedule

50 x 50 mm Mild steel square
hollow section gate surround

Gate lock as per Ironmongery schedule

DETAIL A

'SCALE 1:5'

Wall

Door frame as per door schedule

50 x 50 mm Mild steel square
hollow section gate surround

75 x 50 mm Mild steel rectangular
hollow section gate frame bolted
to wall

Wall

DETAIL B

'SCALE 1:5'

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-033,
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:

MILD STEEL - DOUBLE SWING GATE - FRAME DETAIL

1:2

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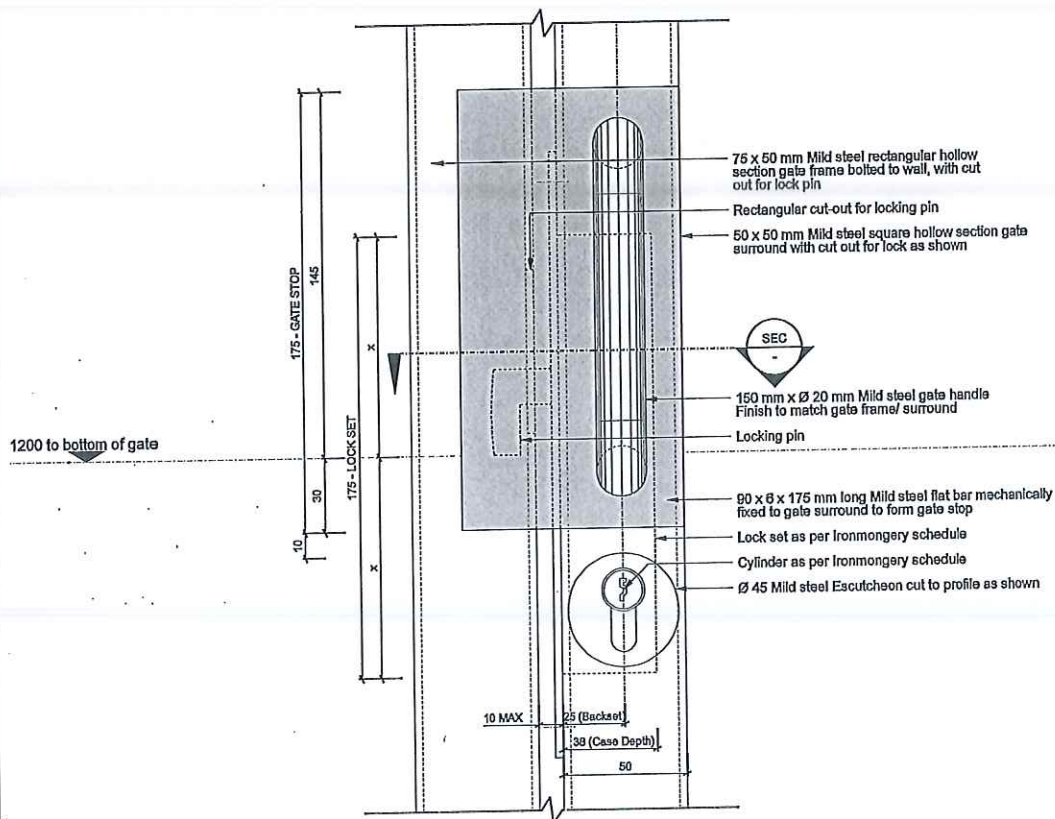
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DRAWN:	/	R00	20080-3-AD017-
DATE:		5-Oct-17	070-795
ISSUED:	5-Oct-17		

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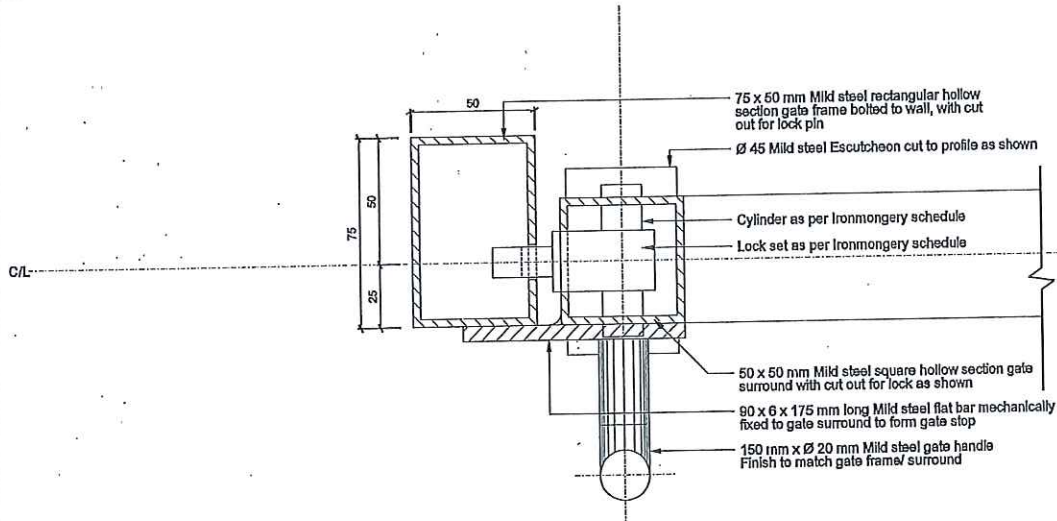
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ELEVATION
SCALE 1:2



SECTION
SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-033,
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:

MILD STEEL - SINGLE SWING GATE - LOCK SET DETAIL WITH POST

1:2

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WILLOWVALE CHC"

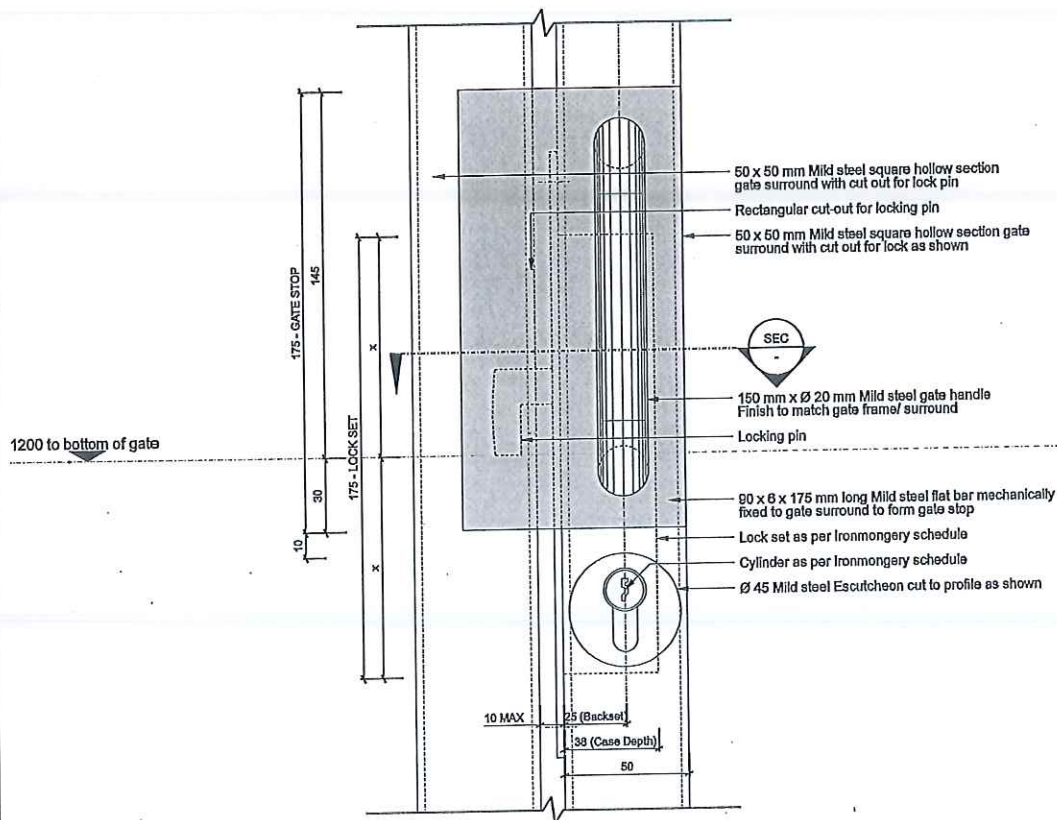
PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:		R00	20080-3-AD017-070-796
DATE:		5-Oct-17	
ISSUED:	5-Oct-17		

HOSPITAL DESIGN GROUP

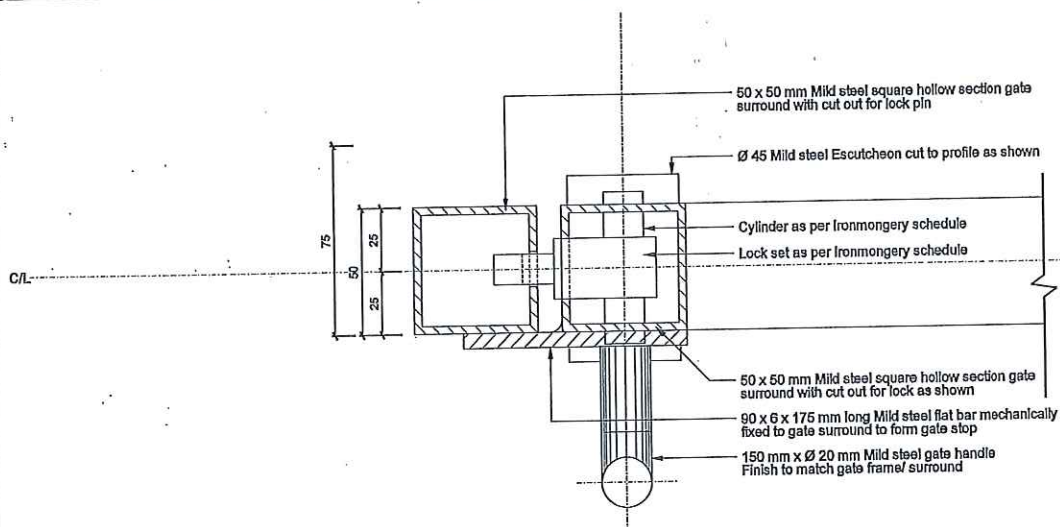
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ELEVATION
SCALE 1:2



SECTION
SCALE 1:2

- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-033.
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:

MILD STEEL - DOUBLE SWING GATE - LOCK SET DETAIL

SCALE:

1:2

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PROJECT TITLE
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FACILITY MAINTENANCE
AMATHOLE - CLUSTER 3
WILLOWVALE CHC"

REV. NO
R00
5-Oct-17

DET. NO
**20080-3-AD017-
070-797**

PROJECT: 20080-3-AD017
DRAWN:
DATE:
ISSUED: 5-Oct-17

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REVISIONS

0

100-F-Sanitary schedule (3)

STATUS		PROJECT DATE	
PROJECT TITLE	ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 WILLOWVALE CHC	PROJECT NO:	
		20080-3-AD017	
		REV NO: R00	Date 5-Oct-17

384 Stuart Street
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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
05-Oct-17	100-F-Sanitary schedule	0	20080-3-AD017	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. R00
2017/05/15
- 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. R00
2017/05/15
- P3** Existing buildings – Remove all existing sanitary and plumbing and fit new sanitary ware and plumbing (hot & coldwater, waist and soil waterpipes – all to connect to main connections) as specified. R00
2017/05/15
- P4** ALL stainless steel fittings to be fitted with stainless steel bolts/screws etc. Not mild steel R00
2017/05/15
- P5** All stainless steel fittings (sinks etc.) to be ordered with overflows – all to match Department of Health specifications R00
2017/05/15
- P6** Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications) R00
2017/05/15
- P7** TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives. R00
2017/05/15
- P8** Existing buildings – IF Required - Remove existing sanitary and plumbing fitting and fit new sanitary ware and plumbing (hot & coldwater, waist and soil waterpipes – all to connect to main connections) as specified. R00
2017/05/15

(SAN001) WASH DOWN SUITE (WITH CISTERN)

Vaal Sanitaryware (016 - 360 6000) <http://www.vaaalsan.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, filaments and flushpipe elbow, including lid and filaments with heavy duty seat.



(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)



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05-Oct-17	100-F-Sanitary schedule	0	20080-3-AD017	6	

(SAN003/003A) BOWL URINAL (CONCEALED TOILET FLUSHMASTER)

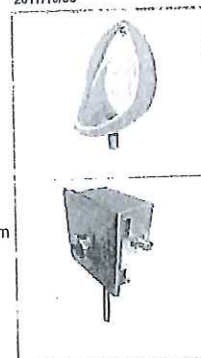
Vaal Sanitaryware (016 - 360 6000) <http://www.vaaalsan.co.za/>
 600 x 385 x 380mm Lavatera back inlet white vitreous china wall mounted urinal (Code: 705427) including 38mm chromium plated domical grating (Code:8787Z0) and chromium plated back inlet spreader (Code: 7054Z2), flush valve, flush pipe and fittings (by others), fixed on and including two hanger brackets (Code: 8127Z0).

(SAN003) Recommended installation height to top of unit front rim (650mm FFL)
 (SAN003A) Recommended Juvenile installation height to top of unit front rim (450mm FFL)

Plumbing: (Cobra 011 951-5000)
 Cobra Watertech exposed urinal chrome plated Junior Econo Flushmaster flushvalve (code: KF8,112) with non-hold open feature, galvanised steel undertile box with stainless steel faceplate and chasis, palm press button, 22mm diameter copper urinal tailpipe and 20mm "Ball-o-Stop" control inlet.
 Cobra Watertech 40mm Chrome plated deep seal bottle trap with outlet for 50mm PVC (365/50).

(SAN003) Recommended installation height to centre of unit Button (1450mm FFL)
 (SAN003A) Recommended Juvenile installation height to centre of unit Button (1350mm FFL)

0
 2017/10/05



(SAN004) WASH HAND BASIN

Vaal Sanitaryware (016 - 360 6000) <http://www.vaaalsan.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 8448Z0).

(SAN004) Recommended installation height to top of unit Basin (820mm FFL)
 (SAN004A) 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).

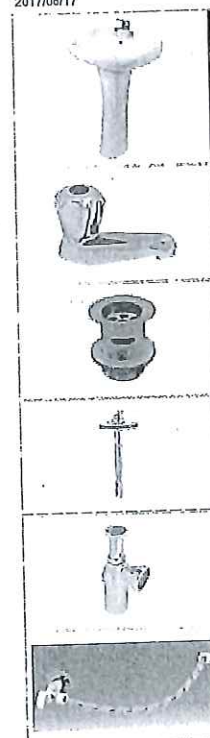
Plumbing: (Cobra 011 951-5000)
 Cobra Watertech 32mm Machine chrome plated slotted basin waste union (303).

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.

R00
 2017/06/17



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(SAN011/011A) FOLD-UP SEAT

Locker Logiclic (082) 558 5153)
Standard PPA 200 MICRON coated fold-up perforated shower seat 500mm long as by Locker Logiclic,
installed to wall before tiling wall with patented Rawl bolts. Installed strictly to manufacturers
specifications.

Recommended installation height to top of unit seat (480mm FFL)

(SAN029B) STANDARD SHOWER PLUMBING WITH SHOWER WASTE

Plumbing: (Cobra 011 951-5000)
Cobra Watertech Stella chrome Chrome plated shower under wall stop taps (3338ST-15)

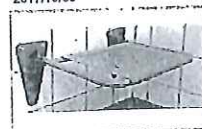
Recommended installation height to centre of unit (1000mm FFL)

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).

0
2017/10/05



R00
2017/06/17

(SAN030) MIRROR - ECONOMY

450mm x 600mm Mirror installed on wall with high quality double sided tape and silicone. 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)

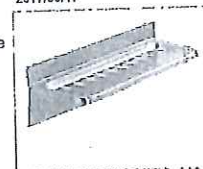
(SAN038/38A) STAINLESS STEEL SOAP TRAY

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)

0
2017/10/05

R00
2017/06/17



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Print Date : 05-Oct-17	Drawing Description: 100-F-Sanitary schedule	Rev. nr. : 0	Job nr. : 20080-3-AD017	Pages : 6	

(SAN069) BANTAM WASH HAND BASIN

Vaal Sanitaryware (016 - 360 6000) <http://www.vaal.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 (620mm 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).

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.

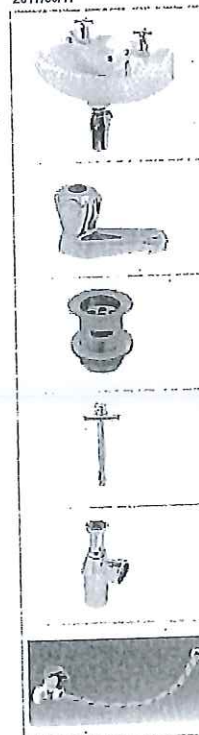
(SAN080) TOWEL RING

Cobra Watertech (0861 372 653)

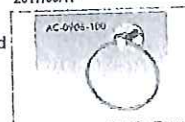
Collette chrome plated towel ring (code: AC-0906-100) size 163mm diameter x 57mm thick, plugged and screwed to wall.

Recommended installation height to centre of unit (1150mm FFL)

R00
2017/06/17



R00
2017/06/17



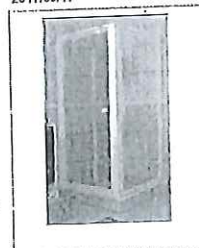
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(SAN071)(SAN071A)(SAN092)(SAN092A) CORNER GLAZED SHOWER DOOR

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) into 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.)

R00
2017/06/17



(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.

R00
2017/06/17



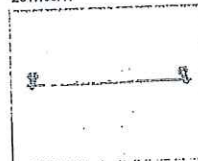
Recommended installation height to centre of unit (1150mm FFL)

(SAN117) SINGLE TOWEL RAIL

Franke (0861 372 653)

STANDARD 600 long X 55 mm Single towel rail manufactured from Polished Stainless Steel as by FRANKE Bathroom Accessories - Model -- BHM9P - 2120081, Installed strictly to manufacturers specifications.

R00
2017/06/17



Recommended installation height to centre of unit (1150mm FFL)

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05-Oct-17	100-F-Sanitary schedule	0	20080-3-AD017	6

(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.

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).

Plumbing: (Cobra 011 951-5000)

Cobra Watertech 40mm Chrome plated unslopped basin waste union (no chain or stay) (317-40).

Plumbing: (Cobra 011 951-5000)

COBRA 309-40 "anti-theft" plug

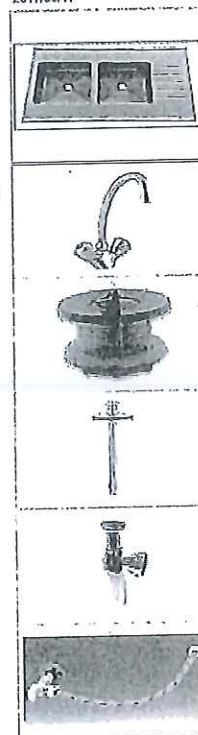
Plumbing: (Cobra 011 951-5000)

COBRA 365/50 bottle trap, 50mm, pvc outlet

Plumbing: (Cobra 011 951-5000)

COBRA angle regulating valves - COBRA 832/350F.

R00
2017/06/17



REVISIONS

0

100-G-Fittings and fixtures (3)

STATUS		PROJECT DATE	
PROJECT TITLE	ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 WILLOWVALE CHC	PROJECT NO: 20080-3-AD017	
		REV NO:	R00
		Date	5-Oct-17

380 Stuart Street
P.O. Box 762
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Tel: +27 59 622 5942
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E-mail: hdg@hdg.co.za



HDG

ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 WILLOWVALE CHC		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			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
05-Oct-17	100-G-Fittings and fixtures	0	20080-3-AD017	3	

- 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.
- P6 EXISTING FITTINGS – Repair, service and refurbish all fittings to be fully functional and compliant to health care standards.

(BOA012) PIN BOARD

VITREX SYSTEM (+27 (0)11 826 6057) <http://www.vitrex.co.za/>
Standard 1500mm x 1000mm pin board as by VITREX SYSTEM 2300. All installed strictly to manufacturer's specifications – Colour to Architects approval.

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2017/10/05



(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
Purpose made modular floor cupboards complete with doors, shelves, drawers and skirting - all according to joinery schedule. Colour to Architects approval.

(CUPF018) FLOOR CUPBOARD INFILL PANEL

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

Purpose made modular wall cupboards complete with doors and shelves - all according to joinery schedule. Colour to Architects approval.

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2017/10/05

(LVR001) VENETIAN BLINDS

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

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Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
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(REF002) POSITION FOR REFRIGERATOR

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.

(REF003) POSITION FOR UNDER COUNTER REFRIGERATOR

0
2017/10/05

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.

(STO003) STOVE, MIROWAVE, TIMER OPERATED

0
2017/10/05

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.

(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.



(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

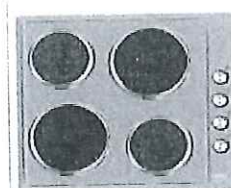
Width : 490, Length : 560

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.



(STO006) COOKER HOOD (600mm)

DEFY (0861 003339)

Standard 600 PREMIUM COOKER HOOD or equal approved

Product Code S/S DCH 300 / Blk DCH 301

Dimensions

Height : 1040, Width : 600, Depth : 480

Colours

Stainless steelStainless steel

BlackBlack

Features

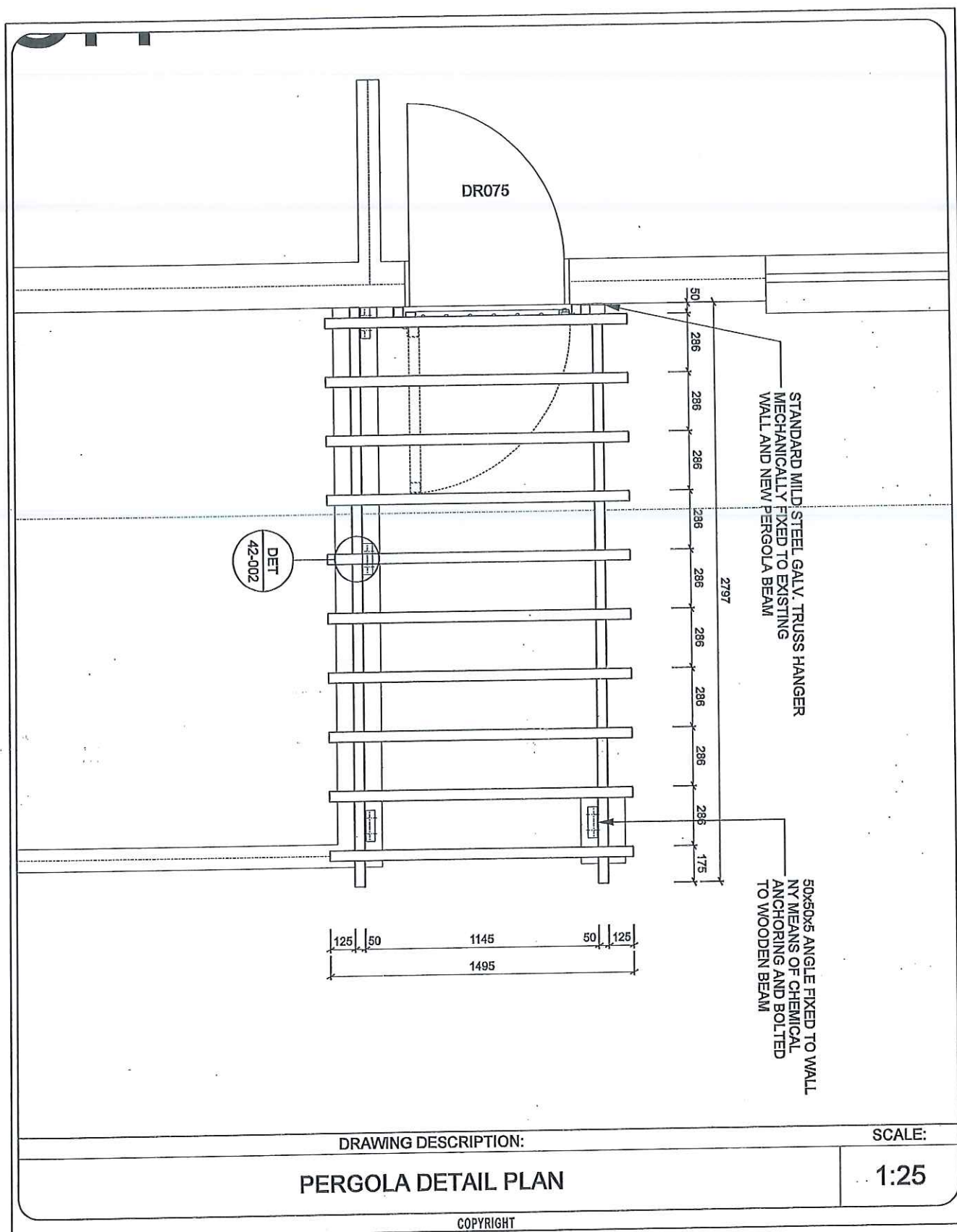
2 Halogen lights, 3 Aluminium filters, Optional carbon filters, Single 3-speed fans, Push button controls & Superior extraction.



ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 WILLOWVALE CHC		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  HDG		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
05-Oct-17	100-G-Fittings and fixtures	0	20080-3-AD017	3

(TOP001-004, 028-033,057-060) POST FORMED FORMICA TOP

Length as shown on plan X 600 X 32mm Thick post formed Formica top with bull nose front and factory fitted edge trim (all edges against walls and sink cut-outs to be waterproofed) – all according to joinery schedule. Colour to Architects approval.

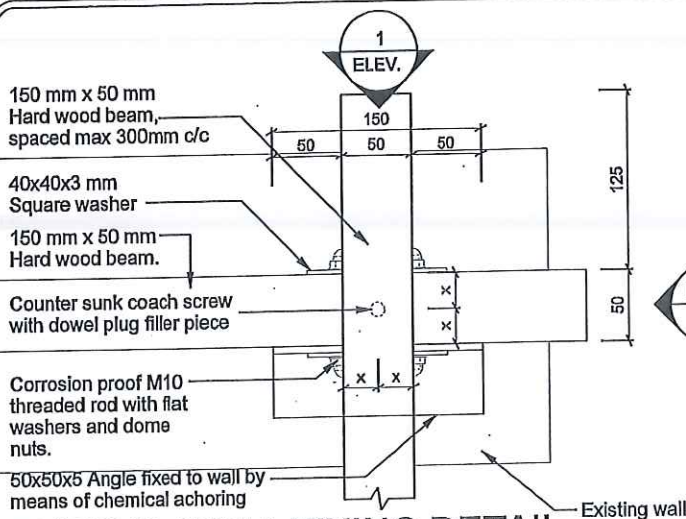


PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 WILLOWVALE CHC"			
PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:	CN /	R00 5-Oct-17	20080-3-AD017-42-001
DATE:			
ISSUED:	5-Oct-17		

HOSPITAL DESIGN GROUP

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





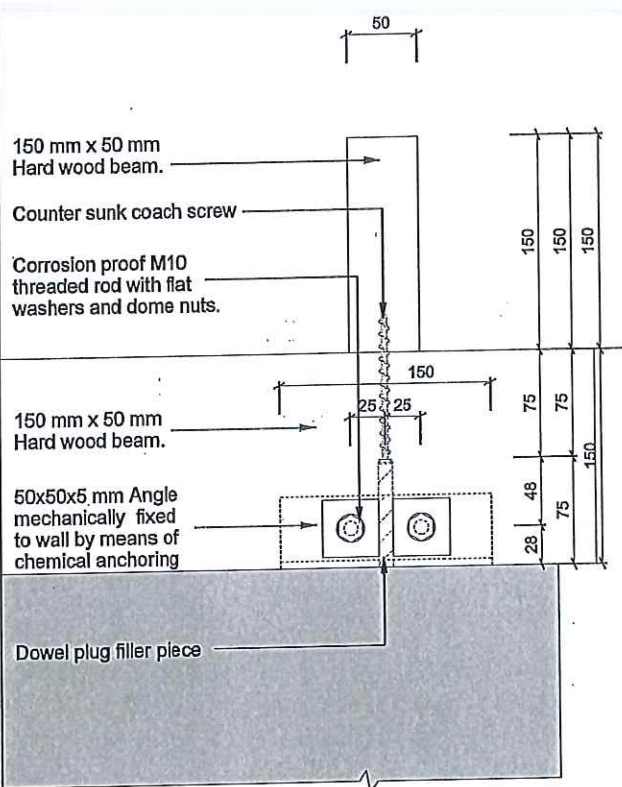
TYPICAL WALL FIXING DETAIL

'SCALE 1:5'

FINISHING NOTE:

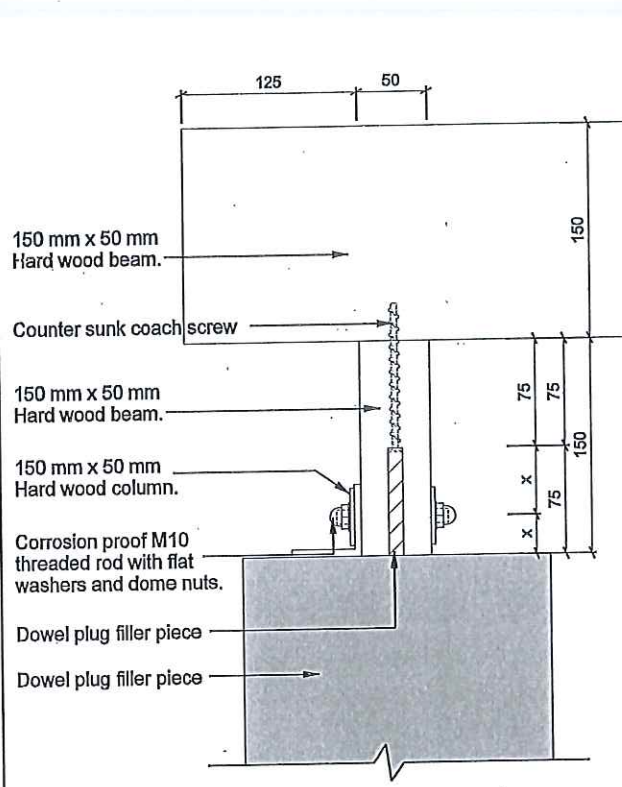
Hard Wood: - Prepare and sand all surfaces to a smooth surface and finish with Woodoc 30 low-gloss, exterior sealer for enhances the natural look. Mix Woodoc Colours tint into first coat and apply clear final coats - all strictly to manufacturers. Colour to Architects approval. (Pre approve sample)

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 - 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 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.



ELEV. 1

'SCALE 1:5'



ELEVATION 2

'SCALE 1:5'

DRAWING DESCRIPTION:

SCALE:

PERGOLA FIXING DETAIL

1:5

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PROJECT TITLE

"ECDOH FACILITY MAINTENANCE
AMATHOLE - CLUSTER 3
WILLOWVALE CHC"

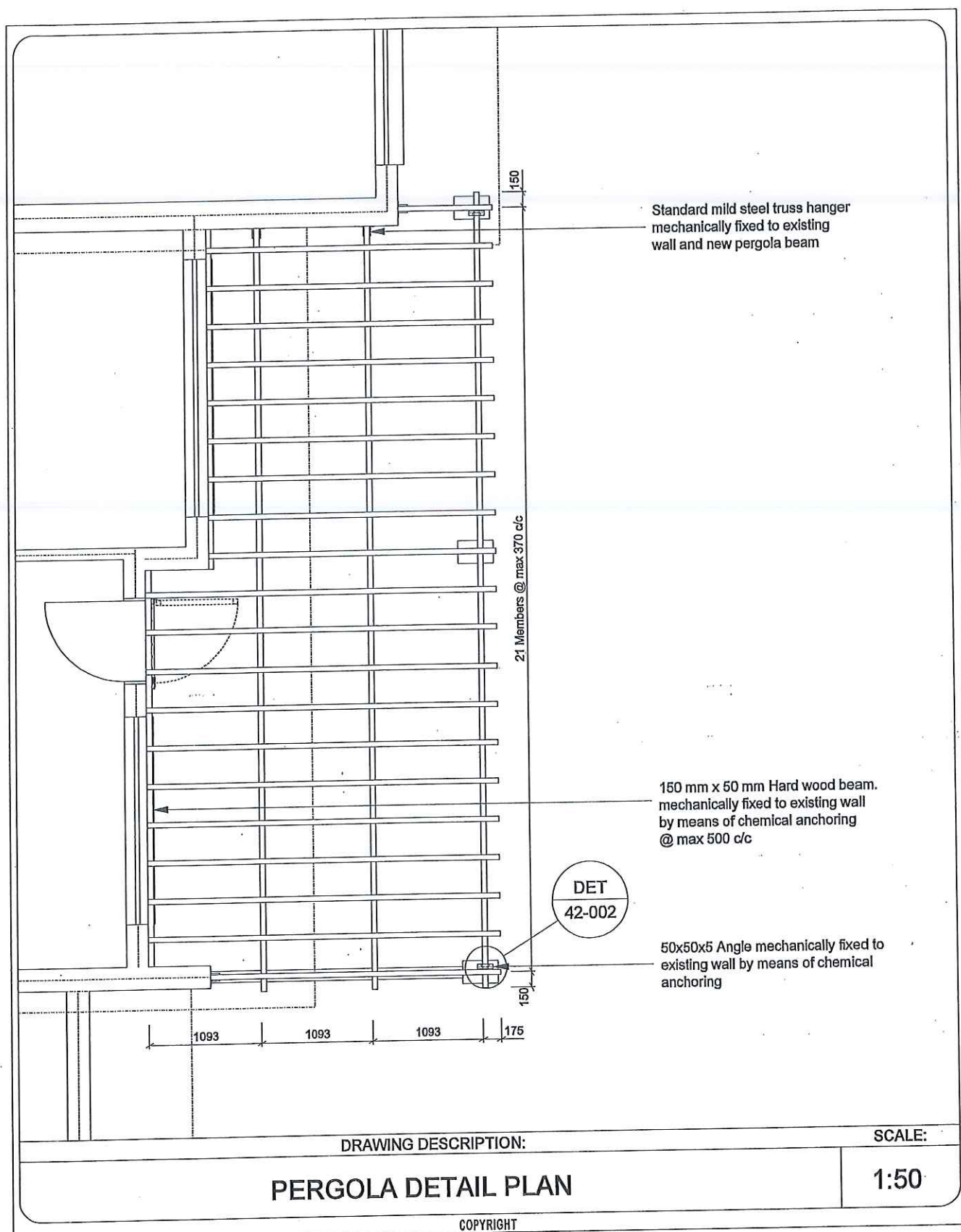
HOSPITAL DESIGN GROUP

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PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:	CN /	R00	
DATE:		5-Oct-17	20080-3-AD017-042-002
ISSUED:	5-Oct-17		

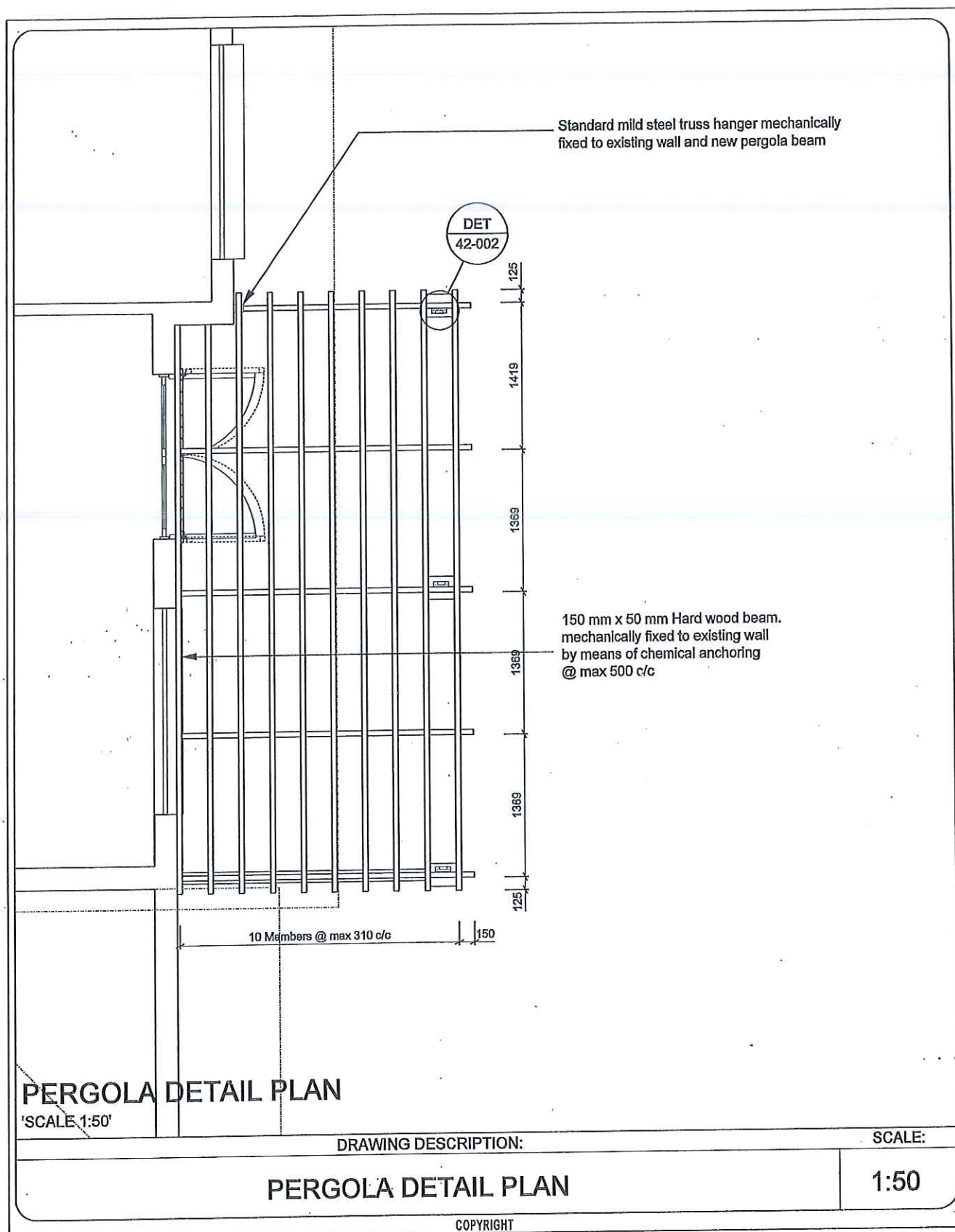


PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 WILLOWVALE CHC"			
PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:	CN /	R00 5-Oct-17	20080-3-AD017-042-003
DATE:			
ISSUED:	5-Oct-17		

HOSPITAL DESIGN GROUP

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PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE AMATHOLE - CLUSTER 3 WILLOWVALE CHC"			
PROJECT:	20080-3-AD017	REV. NO	DET. NO
DRAWN:	CN /	R00 5-Oct-17	20080-3-AD017-042-004
DATE:			
ISSUED:	5-Oct-17		

HOSPITAL DESIGN GROUP

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SIGNAGE DETAILS

PROVINCE OF THE EASTERN CAPE DEPARTMENT OF HEALTH

CORPORATE IDENTITY AND BRANDING GUIDELINES

5.1 Information signage

5.1.8 Service Boards

Service Boards can be used to identify and promote Clinics, Community Health Centres as well as Hospitals.

Two Languages

 Province of the EASTERN CAPE HEALTH	
WELCOME TO CLINIC OPERATING HOURS: 00H00 - 0016H00	WAMKELEKILE E..... KLINIKI SIVULA NGO 00H00 SIVALE NGO00H00
00 Street Name, Suburb, Town, District Tel: 000 000 0000 • Fax: 000 000 0000 • email	
General or Photo's	

Single Language

Please adhere to all Corporate Guideline layouts as per stipulated in this document

 Province of the EASTERN CAPE HEALTH	
WELCOME TO CLINIC / CHC NAME & DISTRICT OPERATING HOURS: 08H00 - 16H30 00 Street Name, Suburb, Town, District Tel: 000 000 0000 • Fax: 000 000 0000 • Email	
General or Photo's of facility	General or Photo's of facility
Together, moving the health system forward Fraud prevention line: 0800 701 701 • 24 hour Call Centre: 0800 032 364 • Website: www.ecehealth.gov.za	

Stock:	Chromodeck
Stock Colour:	White
Size:	3m wide x 2m high
Printing:	Single or double sided
Printing Colour:	Full colour (Adhere to all corporate colours)



WELCOME TO CLINIC / CHC NAME & DISTRICT
OPERATING HOURS: 08H00 - 16H30
00 Street Name, Suburb, Town, District
Tel: 000 000 0000 • Fax: 000 000 0000 • Email

We provide the following services:

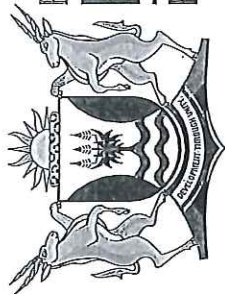
- List services provided

General
or
Photo's
of facility

General
or
Photo's
of facility

Together, moving the health system forward

Fraud prevention line: 0800 701 701 • 24 hour Call Centre: 0800 032 364 • Website: www.ehealth.gov.za



Province of the

EASTERN CAPE

HEALTH

WELCOME TO

..... **CLINIC**

OPERATING HOURS: 00H00 - 16H00

00 Street Name, Suburb, Town, District

Tel: 000 000 0000 • Fax: 000 000 0000 • email

WAMKELEKILE

E..... KLINIKI

SIVULA NGO 00H00 SIVALE NGO 00H00

We provide the following services:

- List services

linkonzo ezifumanekayo zezi:

- list services in xhosa/afrikaans/Sesotho

General
or
Photo's
of facility

Together, moving the health system forward

Fraud prevention line: 0800 701 701 • 24 hour Call Centre: 0800 032 364 • Website: www.ehealth.gov.za