

Tender no.: CPT 1001/22 PG-01.2 (EC): Scope of Works – JBCC (JBCC 2000- Edition 6.2 of May 2018)

Contractors are referred to the Guidelines for the Implementation of Labour-intensive Infrastructure Projects under the Expanded Publics Works Programme (EPWP) for the generic labour-intensive specification applicable to the contract.

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

- trenches having a depth of less than 1.5 metres
- stormwater drainage
- roads
- sidewalks and non-motorised transport infrastructure
- water and sanitation

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:

a) granular materials:

i) whose consistency when profiled may in terms of table 2 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 2 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 is material with a particle size greater than 200mm, a cobble and gravel is material between 60 and 200mm.

2) A dynamic cone penetrometer is an instrument used to measure the in-situ 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 2: Co	Table 2: Consistency of materials when profiled								
GRANULAF	RMATERIALS	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 up to 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 a 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% Mod AASHTO;

b) such that in excess of 5 blows of a dynamic come 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 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. Any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

Clearing and grubbing

Grass and bushes shall be cleared by hand.

<u>Shaping</u>

All shaping shall be undertaken by hand.

Loading

All loading shall be done by hand. Haulage equipment should be selected in a manner that allows loading by hand to the greatest extent possible.

<u>Haul</u>

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

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. Appropriate rollers should be used where higher (than can be achieved by hand) levels of compaction are required or for large areas.

Grassing

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



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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 supplied 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. Where the mass of an element exceeds 55 kg, consideration should be given to the size of the element relative to its total mass related to the number of workers who would be needed to lift such mass

C3.7 Submission of Accrual Reports

The Contractor shall submit accrual reports to the client representative at the end of March and September each year for the duration of the Service Contract period from the date of appointment up to and including project closeout. This is to ensure that PMTE complies with the accounting framework GRAP, which requires that PMTE disclose all its accruals as at the end of each reporting date.

C3.8 Submission of Monthly Local Material Utilisation Report (Local Content)

The contractors shall be responsible for record keeping, documenting and submission of monthly local material utilization report with supporting documentation to the Employer's representative within 7 working days of the beginning of the successive month, in terms of DTI&C designated industry/sector/sub-sector schedule as per the PA36 and Annexures C attached to the tender document. The final percentage achievement to be reconciled upon completion of the project and form part of the final account. Failure by the contractors to achieve the specified percentage of local content per designated industry/sector/sub-sector as listed will result in a thirty percent thirty percent (30%) penalty of the value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.



Tender No: CPT 1001/22

Part C4: Site Information

C4 Site information



& infrastructure
Department:
Public Works and Infrastructure

public works

Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

.

SITE INFORMATION PROJECT SPECIFIC. PG-03.2 (EC)



PG-03.2 (EC) SITE INFORMATION – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (EDITION 6.2 OF MAY 2018)

Project title:	WESTERN CAPE-OUDTSHOORN SANDF: INSTALLATION OF FACILITIES FOR PEOPLE WITH DISABILITIES					
Tender no:	CPT 1001/22	WCS no:		Reference no:		

C4 Site Information

Existing Military Base-Oudtshoorn





Tender No: CPT 1001/22

Part C5: Health and Safety Specification

C5 Health and Safety Specification .



public works & infrastructure

Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

HIV/AIDS SPECIFICATION AND SCHEDULES STANDARD PW 1544

PW 1544



DEPARTMENT OF PUBLIC WORKS

HIV/AIDS

SPECIFICATION

OCTOBER 2004

SECTION

HIV/AIDS SPECIFICATION

HIV/AIDS REQUIREMENTS

1 <u>SCOPE</u>

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.

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).

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 <u>Recommended practice</u>

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:

- 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 counseling.

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.

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.

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 <u>ENSURING ACCESS TO HIV/AIDS TESTING AND COUNSELLING FACILITIES AND TREATMENT</u> 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 Liasing 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.

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.

HIV/AIDS PROGRAMME: SITE CHECKLIST

When did construction commence:

Name of Departmental Project Manager: PHUMLA NTEO

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

Tick the block if Contractor satisfactor	Tick the block if Contractor satisfactorily complied with specifications						
DATE	PI	PI	PI	PI	PI	PI	PI
	D D M M	D D M M	D D M M	D D M M	D D M M	D D M M	D D M M
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

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

Page 3 of 3

SCHEDULE B

HIV/AIDS AWARENESS PROGRAMME: SERVICE PROVIDER REPORT

Deviations from workshop plan:

State reasons for deviating from workshop plan:

Corrective actions:

Service Provider

Date

Date

SCHEDULE B

Page 1 of 3

HIV/AIDS AWARENESS PROGRAMME : WORKSHOP CONTENT ADDRESSED

Fill in the applicable information with regard to each workshop conducted							
DATE	W/S	W/S D D M M	W/S DDMM	W/S D D M M	W/S D D M M	W/S DDMM	W/S DDMM
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	Fill in your name and indicate attendance by ticking the appropriate date							
DATE		W/S	W/S D D M M	W/S	W/S	W/S	W/S	W/S
No	NAMES	D D M M	DDMM	D D M M	D D M M	D D M M	D D M M	D D M M
NU	NAMES							
		l						

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
PHUMLA NTEO 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:

SCHEDULE C

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
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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

Number of HIV/AIDS-related deaths:

Contractor

Departmental Project Manager

Date

Date



public works & infrastructure

Department: Public Works and Infrastructure **REPUBLIC OF SOUTH AFRICA**

WESTERN CAPE

CAPE TOWN

OUDTSHOORN SANDF: INSTALLATION OF FACILITIES FOR PEOPLE WITH DISABILITIES

Health and Safety Specification

OCCUPATIONAL HEALTH AND SAFETY ACT

<u>AND</u>

REGULATIONS

PRE-CONSTRUCTION HEALTH AND SAFETY SPECIFICATION

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Task Completion Form

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Principal Contractor's Responsible Persons

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Other Requirements

6. ANNEXURE D

Initial Hazard Identification and Risk Assessment

1. INTRODUCTION AND BACKGROUND

1.1 <u>Background to the Pre-Construction Health and Safety</u> <u>Specification</u>

- 1) The Construction Regulations of February 2014 in terms of Regulation 5 (1)(b) places the onus on the Client to prepare a Pre-Construction Health and Safety Specification, highlighting all risks not successfully eliminated during design. Section 37.2 of the Act, Act 85 of 1993 requires the Department of Works as an Employer to enter into a written agreement with the Contractor (Mandatory) as far as <u>arrangements</u> and <u>procedures</u> are concerned to ensure that the Contractor complies with the requirements of the Act, Act 85 of 1993 and all its Regulations.
- 2) This document serves to address all the above mentioned requirements and by submission of his/her tender the Contractor undertakes to abide with the conditions as stipulated by the Department of Works hereinafter referred to as the Client throughout this document.
- 3) This documentation will give the Client or its duly appointed representative the required information to be able to evaluate the Contractors competency and resources as is required by Regulation 5(1)(h) of the Construction Regulations of February 2014 and to determine his/her suitability to perform such work in a safe and healthy manner.
- 4) When submitting his/her tender the Contractor must supply the Client with the following:
 - A detailed Site Safety Plan indicating how the contractor will manage all Safety, Health and Environmental aspects whilst working on the Clients premises or on premises under his/her control, which must be based on the contents of this document as is required by Regulation 7(1)(a) of the Construction Regulations of February 2014.
 - A Cost breakdown of funds being allocated to make adequate provisions for Safety, Health and Environmental requirements as is required by Regulation 5 (1)(g) of the Construction Regulations of February 2014.
- 5) No approval or acceptance of any document required by this specification shall be construed by the Contractor as an absolvent of the Contractor from achieving the required level of performance and compliance with legal requirements whatsoever.
- 6) The Contractor is an employer in his/her own right and therefore must assume all the responsibilities as required from any legal obligation imposed on him or her.

1.2 <u>Purpose of the Pre-Construction Health and Safety</u>

Specification

To assist in achieving compliance with the Occupational Health and Safety Act 85/1993 and the now promulgated Construction Regulations of February 2014 in order to reduce incidents and injuries.

To enable the effectiveness of the incorporated health and safety standards in regulations and thus comply with SANS requirements in terms of Occupational Health and Safety Act No.85 of 1993 section 44 of the act.

The Pre-Construction Safety, Health and Environmental Specification sets out the requirements to be followed by the Principal Contractor and other Contractors so that the Health and Safety of all persons potentially at risk and the potential risk to the environment may receive the same priority as other facets of the project such as Scope, Time, Cost and Quality.

1.3 <u>Implementation of the Pre-Construction Health and Safety</u> <u>Specification</u>

This specification forms an integral part of the contract, and the Contractor is required to use it at pre-tender phase when drawing up his/her project-specific Construction Phase Health and Safety Plan as indicated above. The Principal Contractor shall forward a copy of this specification to all Sub-Contractors at their bidding stage so that they can in turn prepare Health and Safety Plans relating to their operations.

2. <u>PRE-CONSTRUCTION HEALTH AND SAFETY SPECIFICATION</u>

2.1 <u>SCOPE</u>

This Specification covers the requirements for eliminating and mitigating incidents and injuries on the particular project.

The scope also addresses legal compliance, hazard identification and risk assessment, risk control, and promoting a Health and Safety culture amongst those working on the project. The specification also makes provision for the protection of those persons other than employees.

2.2 <u>Contractual Issues</u>

- 1) Due to fact that this document is based on legislative requirements the Client requires that all Contractors comply with the requirements of this document and all other relevant legislative requirements not covered by this document.
- 2) The Client or its duly appointed representative reserves the right to stop any contractor from working whenever Safety, Health or Environmental requirements are being violated. Any

resultant costs of such work stoppages will be for the Contractors account.

- 3) The requirements as specified by the Client in this document must not be deemed to be exhaustive and the Client reserves the right to make changes as and if the Client deems fit.
- 4) The Client will not entertain any claim of any nature whatsoever which has come about as result of costs incurred or delays being experienced due to the Contractor not complying with the requirements of this document or any other applicable legislative requirements imposed on the Contractor.

2.3 <u>Safety, Health and Environmental Standards and Procedures</u>

- 1) The Contractor will ensure that all work performed by him/her is executed in accordance with work procedures which comply with accepted safety practices and applicable safety, health and Environmental legislation.
- Procedures as indicated above may be the Contractors own procedures on condition that they comply with the conditions as stipulated above.
- 3) Where procedures have been specified by this Client in the contents of this document such procedures must be adhered to unless otherwise agreed to with the Client or it's duly appointed representative.

2.4 <u>Interpretations</u>

2.4.1 APPLICATION

This specification is a compliance document drawn up in terms of South African legislation and is therefore binding. It must be read in conjunction with relevant legislation as noted previously.

2.4.2 **DEFINITIONS**

- 1) The definitions as listed in the Occupational Health and Safety Act 85/1993 and Construction Regulations of February 2014 shall apply unless otherwise stipulated.
- Any reference to "The Contractor" includes the Principal and Sub - Contractor unless otherwise stipulated.

2.5 <u>Minimum Administrative Requirements</u>

2.5.1 Notification of Intention to Commence Construction Work

1) The Contractor shall notify the Provincial Director of the Department of Labour in writing before construction work commences if required in the format of Annexure 2. A copy of this notification must be forwarded to the Client prior to the commencement of Construction work.

2) Copies of such notification can be obtained from any Department of Labour Office.

2.5.2 Assignment of Contractor's Responsible Persons to Supervise Health and Safety on Site.

- 1) The Contractor shall submit in the format of Annexure B, proof of all supervisory as well as any other relevant appointments as is required by the OHS Act and the Construction Regulations.
- 2) It is acknowledged that the Contractor may need to allocate more than one appointment to certain staff members. This practice may only take place if Safety, Health and Environmental Standards would not be negatively affected.
- 3) Should the Client or its representative deem such practice as having a negative effect on Safety, Health and Environmental Standards, then alternative arrangements will have to be made.

4) A contractor must appoint a full-time construction health and safety officer in writing to assist in the control of all health and safety related aspects on the site.

2.5.3 Competency of Contractor's Appointed Competent Persons

- Contractors' competent persons for the various risk management portfolios shall fulfill the criteria as stipulated under the definition of "Competent Person" in accordance with the Construction Regulations of February 2014 and the Occupational Health and Safety Act, Act 85 of 1993.
- The Client reserves the right to require levels of Competency, which exceeds the requirements as stipulated by the Act and or Construction Regulations.
- 3) In the event of the Client requiring additional levels of Competency, alternative arrangements will have to be made.

2.5.4 Compensation of Occupational Injuries and Diseases Act, Act 130 of 1993 (COID ACT)

- 1) The Contractor warrants that his and all his workmen are fully covered in terms of the COID, Act 130 of 1993 and that such cover shall remain in force for the duration of his contractual relationship with the Client or whilst working on the Clients premises or premises under the Clients control.
- 2) The Contractor will supply proof of such insurance cover to the Client with his/her tender submission.
- 3) The Contractor undertakes to ensure that all Sub-Contractors appointed by him/her will be fully covered in terms of the COID

Act, Act 130 of 1993 and that such cover shall remain in force for the duration of their contractual relationship with the Contractor

4) The Contractor must also ensure that he has additional insurance cover that will adequately make provisions for any losses and/or his employee's acts and/or omissions whilst working on the Clients premises or on premises under the client's control.

2.5.5 Occupational Health and Safety Policy

- 1) The Contractor shall submit a Health and Safety Policy signed by the Chief Executive Officer.
- 2) The Policy must outline objectives and how they will be achieved and implemented by the Company / Contractor.
- 3) A copy of such policy must be included in the Site Safety Plan and the Site Safety File.

2.5.6 Health and Safety Organogram

- 1) The Contractor shall submit an Organogram, outlining the Health and Safety Site Management Structure including the relevant appointments / competent persons.
- In cases where appointments have not been made, the organogram shall reflect the intended persons to be appointed to such positions.
- 3) The organogram shall be updated when there are any changes in the Site Management Structure.

2.5.7 Preliminary Hazard Identification and Risk Analysis and Progress Hazard Identification and Risk Analysis

- A Preliminary Hazard Identification and Risk Analysis was conducted and can be found in the format of Annexure D. This Hazard Identification and Risk Analysis was performed to make the Contractor aware of potential Hazards, which could be present on the site and may not be comprehensive.
- 2) The Contractor shall cause a Hazard Identification and Risk Analysis exercise to be performed by a Competent Person before commencement of construction work, and the assessed risks shall form part of the Construction phase Health and Safety Plan submitted for approval by the Client. The Risk Assessment must include:
- a) A list of hazards identified as well as potentially hazardous tasks;
- b) A documented risk assessment based on the list of hazards and tasks;
- c) A set of safe working procedures to eliminate, reduce and/or

control the risks assessed;

- d) A monitoring and review procedure of the risks assessment as the risks change.
- 3) The Principal Contractor shall ensure that all Contractors are informed, instructed and trained by a Competent Person/s regarding hazards, risks and related safe work procedures before any work commences and thereafter at regular intervals as the risks change and as new risks develop.
- 4) The Contractor shall be responsible for ensuring that all persons who could be negatively affected by its operations are informed and trained according to the hazards and risks and are conversant with the Safe Work Procedures, control measures and other related rules (tool box talk strategy to be implemented and so on).
- 5) Should the Client or its duly appointed Representative identify alternative hazardous activities performed by the Contractor or its Sub-Contractors on site for which a Risk Assessment was not performed then the contractor will be required to perform such an exercise before continuing such work.

2.5.8 Health and Safety Representative(s)

- 1) The Contractors shall ensure that Health and Safety Representative(s) are appointed under consultation and trained to carry out their functions.
- 2) The appointments must be in writing and the Health and Safety Representative shall carry out regular inspections, keep records and report all findings to the Responsible Person forthwith and at Health and Safety meetings.

2.5.9 Health and Safety Committees

The Principal Contractor shall ensure that project Health, Safety and Environmental meetings are held monthly or as deemed necessary by the project requirements.

- 1) Minutes must be kept on record and filled in the Site Health and Safety File.
- 2) Meetings must be organized and chaired by the Principal Contractors' Responsible Person.

2.5.10 Health and Safety Training

2.5.10.1 Induction

1) The Principal Contractor shall ensure that all site personnel undergo a site-specific Health and Safety Induction Training Session before starting work. A record of attendance shall be kept in the Health and

Safety file. A suitable venue must be supplied to provide this training.

2) All visitors to the site must also be subjected to sitespecific induction training highlighting items such as steps to follow in the event of an emergency, restricted areas and so on.

2.5.10.2 <u>Awareness</u>

The Principal Contractor shall ensure that, on site, periodic toolbox talks take place daily. These talks should deal with risks relevant to the construction work at hand. A record of attendance shall be kept in the Health and Safety File. All Contractors have to comply with these minimum requirements.

2.5.10.3 **<u>Competency</u>**

- 1) All competent persons shall have the knowledge, experience, training, and qualifications specific to the work they have been appointed to supervise, control, and carry out.
- 2) The abovementioned competency requirements will be assessed on a regular basis by the Client, by means of Audits, Progress Meetings, and any other means deemed fit by the Client.
- 3) The Principal Contractor is responsible to ensure that competent Contractors are appointed to carry out construction work and records should be kept of criteria used to determine competency.
- 4) The Client reserves the right to require competencies which may exceed the Contractors standards in which case alternative arrangements will have to be made to meet the Clients requirements.

2.5.11 General Record Keeping

- 1) The Contractors shall keep and maintain Health and Safety records to demonstrate compliance with this Specification, with the OHS Act 85/1993; and with the Construction Regulations of February 2014.
- 2) The Contractor shall ensure that all records of incidents/accidents, training, inspections, audits, and so on are kept in a Health and Safety file held in the Site Office.
- 3) The Principal Contractor must ensure that every Contractor opens his/her own Health and Safety file, maintains the file and makes it available on request by any duly authorized person.

4) The principal contractor or sub-contractor that has more than 5 staff members on site will be required to have the full version of Occupational Health and Safety Act and Regulations 85 of 1993 on site.

2.5.12 Health and Safety Audits, Monitoring and Reporting

- 1) The Client shall conduct monthly Health and Safety audits of the work operations including a full audit of physical site activities as well as an audit of the administration of Health and Safety.
- 2) The Principal contractor is obligated to conduct similar audits on all Contractors appointed by him/her.
- 3) Detailed reports of the audit findings and resultant corrective measures shall be reported on at all levels of project management meetings/forums.
- 4) Copies of the Clients audit reports will be forwarded to the Contractor and must be kept in the Site Health and Safety File.
- 5) The Principal Contractor must audit the activities and administration of all appointed Sub-Contractors, forward a copy to the Client or its representative within seven days of completion of the audit and file a copy on the Site Safety File.

2.5.13 Emergency Procedures/Plans

- 1) The Principal Contractor shall submit a detailed Emergency Procedure/Plan for approval by the Client prior to commencement of work on site. The procedure shall detail the response plan/s including the following key elements:
 - List of key competent personnel;
 - Details of emergency services;
 - Actions or steps to be taken in the event of the specific types of emergencies;
 - Information on hazardous material/situations.
- Emergency Procedures/Plans shall include, but shall not be limited to, fire, spills, use of hazardous substances, bomb threats, major incidents/accidents major and minor and any other anticipated emergencies.
- 3) The Principal Contractor shall advice the Client in writing forthwith, of any emergencies, together with a record of action taken. A contact list of all service providers (Fire Department, Ambulance, Police, Medical and Hospital, etc) must be maintained and be available to site personnel.
- 4) Emergency procedures/Plans must be developed by a competent person such as a Safety, Health and Environmental Officer or in the absence of a Safety, Health and Environmental Officer by the Construction Work Supervisor.

5) Emergency Procedures/Plans must form part of the Agenda of monthly safety meetings as the Procedures/Plans would have to be revisited on a continuous basis due to the changing environment on construction sites.

2.5.14 First Aid Boxes and First Aid Equipment

- 1) All Contractors shall appoint in writing First Aider(s) in terms of legislative requirements.
- 2) The appointed First Aider(s) must be sent for accredited first aid training should they not have received such training prior to commencement of work on site.
- 3) Valid certificates to be kept on site in the Site Safety File.
- 4) The Principal Contractor shall provide an on-site First Aid Station with first aid facilities, where required, including first aid boxes adequately stocked at all times.
- 5) All Contractors with more than 5 employees shall supply their own first aid box
- 6) In the event of hazards chemical substances being present on site, first aiders must be trained to address any incidents of accidental exposure and their first aid kits stocked accordingly

2.5.15 Accident / Incident Reporting and Investigation

- 1) Injuries are to be categorized into the following categories:
 - 1) first aid;
 - 2) medical;
 - 3) disabling; and
 - 4) fatal injuries.
- 2) All Contractors have to report on the 4 categories of injuries to the Principal Contractor as soon as is reasonably practicable.
- 3) The Principal Contractor must stipulate in his/her construction phase Health and Safety plan how he/she will handle each of these categories.
- 4) When reporting injuries to the Client, these categories shall be used.
- 5) All injuries will be investigated by the Principal Contractors or his/her Competent Person, with a report being forwarded to the Client forthwith.
- 6) The Principal Contractor must report all injuries to the Client in the form of a detailed injury report at least monthly.
- 7) All incidents taking place in terms of Section 24 of the Act must be reported in the prescribed period and manner to the Department of Labour.
- 8) Copies of Section 24 reports, including WCL 1 & 2 forms must be forwarded to the Client immediately after completion.

2.5.16 Hazards and Potential Situations

- 1) The Principal Contractor shall immediately notify other Contractors as well as the Client of any hazardous or potentially hazardous situations that may arise during performance of construction activities.
- 2) Should a hazardous situation require work stoppages the work must be stopped and corrective steps taken such as Written Safe Work Procedures and issuing of Personal Protective Equipment.

2.5.17 Personal Protective Equipment (PPE) and Clothing

- 1) The Contractor shall ensure that all workers are issued and wear Hard Hats, Safety Boots/Shoes and Overalls.
- The Contractor and all Contractors shall make provision and keep adequate quantities of SABS approved PPE on site at all times.
- 3) The Contractor shall clearly outline procedures to be taken when PPE or Clothing is:
 - Lost or stolen;
 - Worn out or damaged.
- 4) The above procedure applies to Contractors and their Sub-Contractors.
- 5) The Contractor must ensure that no person enters the Site without the required Personal Protective Equipment.
- 6) Visitors to the Site must be provided with the required PPE such as Hard Hats, Earmuffs and Eye Protection.
- 7) Records of all PPE issued to staff must be kept on site in the Site Safety File.
- 8) Employees are to be made conversant with the purpose of PPE and where and when it is required to be used by the employee.
- 9) Safety belts are not to be allowed on site due to its associated potential of injury to the user; only double lanyard safety harnesses are permitted.
- 11) Suitable eye protection must at all times be worn by the worker

when performing grinding, chipping, chasing and other associated activities.

- 12) In the event that onlookers may be struck by flying objects as a result of work being performed, suitable screens must be erected.
- 13) Any person performing welding or brazing work will wear suitable eye protection, gloves, aprons, and spats. Suitable screens are to be provided to protect onlookers from the harmful rays associated with such activities.
- 14) Where employees are required to work with corrosive liquids, suitable eye protection, gloves and acid resistant overalls must be provided.
- 15) Ear protection must be worn in designated noise zone (in excess of 85dB)
- 16) Suitable respirators must be provided to all employees and visitors required working in or entering areas where toxic vapors could be present.
- 17) All staff working in an elevated position (2m or higher) or where the potential exists that such person may fall must be provided with a suitably secured safety harness.
- 18) Any person refusing to wear personal Protective Equipment must be instructed to wear such equipment and in the event of such person refusing to wear such equipment he/she must be removed from the premises.

2.5.18 Occupational Health and Safety OHS Signage

- 1) The Contractor shall provide adequate on-site OHS signage including but not limited to: "no unauthorized entry", "report to site office", "site office", "beware of overhead work", "hard hat area".
- 2) Signage shall be posted up at all entrances to the site as well as on site in strategic locations e.g. access routes, stairways, entrances to structures and buildings, scaffolding, and other potential risk areas/operations.
- 3) In the event where work is being performed on a premises displaying signage such as no-parking, speed limits and so on, the Contractor will abide by the requirements of such signage except if otherwise instructed.

2.5.19 Permits

1) The Contractor shall draft and implement where required permits which may include the following:

- Use of Explosives and Blasting;
- Work for which a fall prevention plan is required;
- Use of cradles, and
- Electrical work
- Hot works
- 2) The Contractor will ensure that where permits are required that it is used and adhered to.

2.6 <u>Physical Requirements</u>

2.6.1 Demolition Work

- 1) Prior to any demolition work being carried out, the Principal Contractor shall submit a safe working procedure and a detailed engineering survey for approval by the Client.
- 2) Such Safe Work Procedures' must where possible be submitted with the Site SHE Plan
- 3) Acceptance will then be issued to the Principal Contractor to proceed with the demolition work.
- 4) The Principal Contractor shall ensure that demolition work complies with the Construction Regulations of February 2014.
- 5) In the event where a structure identified for demolition includes substances such as lead or asbestos it must be performed within the requirements of the applicable legislative.
- 6) It is the Principal Contractor responsibility to locate and determine where all underground services are and make safe before any excavating, digging etc. is done

2.6.2 Excavations, Shoring, Dewatering or Drainage

- 1) All excavation work must be performed under the supervision of a Competent Person as specified in Annexure B of this document and the Construction Regulations of July 2003.
- 2) Adequate Shoring and Bracing must be provided where required to ensure that the health and safety of the employees working in such excavations are not put at risk.
- 3) Adequate provisions must be made to ensure that water is drained from excavations which may enter such excavations as a result of seepage or rain.
- 4) All excavation made by the Contractor must be clearly demarcated and protected to prevent accidental access.
- 5) Barricading tape may only be used to make solid barricading more visible and may not be used as a means of barricading.

6) In addition to the abovementioned the requirements of Regulation 11 of the Construction Regulations of July 2003 must be adhered to.

2.6.3 Edge Protection .

- 1) All open edges posing the risk of resulting in injuries or damage to equipment must be adequately guarded fenced or barricaded or other similar suitable means used to prevent injuries or damage to equipment.
- 2) Barricading tape is not deemed to be suitable and may only be used in addition to other suitable means as indicated above.

2.6.4 Explosives and Blasting

- 1) All explosives must be transported or stored according to the requirements of SANS 0228.
- 2) Written approval must be obtained from the Chief Inspector Occupational, Health and Safety prior to any blasting activities taking place.
- 3) A copy of such permission from the Chief Inspector Occupational, Health and Safety must be supplied to the client prior to Blasting.
- 4) Prior to blasting a siren must be sounded, warning flags posted and guards placed at strategic locations points to prevent accidental entry to the blasting area.

2.6.5 Stacking of Materials

- 1) Stacking and storage of materials must be performed under the Supervision of a Competent Person whom has been appointed in writing as required by Annexure B.
- 2) Storage areas must be designated, kept neat and under control. In addition to the abovementioned the requirements of General Safety Regulations as promulgated by Government Notice No R1031 dated 30 May 1986 as amended must be complied with.
- 3) In the event that unauthorized persons may enter an area where materials are stacked such area must be barricaded off to prevent access to such area.

2.6.6 Speed Restrictions and Protections

- 1) Unless otherwise stipulated the speed limit on site to be adhered to is 10 Km/h.
- 2) Vehicle movement routes on site must be clearly indicated where applicable.

3) Signage to ensure the safe movement of vehicles on site as well as to ensure the health and safety of all employees and visitors on site must be displayed in strategic locations.

2.6.7 Hazardous Chemical Substances (HCS)

- 1) All employees required to use Hazardous Chemical Substances or products containing Hazardous Chemical Substances must be adequately and comprehensively trained with regard to the requirements of the Hazardous Chemical Substances Regulations as amended in Government Gazette No 25130 of June 2003, the potential sources of exposure and the potential risks to their health caused by exposure.
- 2) In addition to the abovementioned, Material Safety Data Sheets must be kept on site for all materials, which may contain hazardous chemical substances.

2.6.8 Asbestos

- 1) Asbestos work may only be performed subject to prior notification of the Provincial Director, Occupational Health and Safety, Department of Labour, in writing.
- 2) Proof of such notification must be supplied to the Client prior to work proceeding.
- 3) All asbestos work shall be carried out as per the Asbestos Abatement Regulations by an approved Asbestos Contractor.
- 4) All employees must be informed and receive training on aspects such as the contents and scope of the Asbestos Abatement Regulations as published in Government Gazette 23108 of November 2020, the potential risks of exposure to asbestos, precautionary measures employees have to take and all other requirements deemed necessary to provide a safe and healthy environment for all employees as specified by the Asbestos Abatement Regulations as indicated above.
- 5) All asbestos will be removed from site by an approved asbestos contractor to an approved asbestos dump site. Certificate must be issued on completion on removal of all asbestos on site indicating that the site is clear of all asbestos.

2.7 Plant and Machinery

2.7.1 Construction Plant

- 1) All Construction Plant must comply with and be used in conjunction with the requirements of Section 23 of the Construction Regulations and in specific that all records of inspections rendering such plant safe must be kept on site.
- 2) Operators will be competent and trained and copies of training

certificates shall be placed on the health and safety file on site.

- 3) Operators shall be in possession of medical certificate declaring that they are physically and psychologically fit to operate such construction vehicle and plant and copy of medical certificate shall be on the file.
- 4) Original operating and medical certificates shall be kept by the operators and shall be on site in-possession of the operators at all times.

2.7.2 Vessels under Pressure (VUP)

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

- Providing competency and awareness training to the operators;
- Providing PPE or clothing;
- Inspecting equipment regularly and keeping records of inspections;
- Providing appropriate firefighting equipment.

2.7.3 Fire Extinguishers and Fire Fighting Equipment

- 1) The Principal Contractor and Sub Contractors shall provide or ensure adequate provision of regularly serviced firefighting equipment located at strategic points on site, specific to the classes of fire likely to occur.
- 2) The appropriate notices and signs must be posted up as required.
- 3) Contractors may not utilize fire protection equipment belonging to the client without prior consent.

2.7.4 Hired Plant and Machinery

- 1) The Contractor shall ensure that any hired plant and machinery used on site is safe for use.
- 2) The requirements as stipulated by the OHS Act 85/1993 and Construction Regulations of February 2014 shall apply.
- 3) The Principal Contractor shall ensure that operators hired with machinery are competent and that certificates are kept on site in the Site Health and Safety File. All relevant Contractors must ensure the same.

2.7.5 Scaffolding / Working at Heights

- 1) Working at heights includes any work that takes place in an elevated position in excess of 2m.
- 2) The Contractor must submit a risk-specific fall prevention plan and include a rescue plan in accordance with the Construction

Regulations of February 2014 before this work is undertaken.

3) The fall prevention plan must be approved by the Client before work may commence.

2.7.6 Formwork and Support Work for Structures

- 1) The Principal Contractor shall ensure that the provisions of Section 10 of the Construction Regulations of February 2014 are adhered to.
- 2) These provisions must include but not be limited to ensuring that all equipment used is examined for suitability before use; that all Formwork and Support Work is inspected by a competent person immediately before, during and after placement of concrete or any other imposed load and thereafter on a daily basis until the Formwork and Support Work has been removed.
- 3) Records of all inspections must be kept in a register on site.

2.7.7 Lifting Machines and Tackle

- 1) The Contractor shall ensure that lifting machinery and tackle is inspected before use and thereafter in accordance with the Driven Machinery Regulations and the Construction Regulations (Section 20).
- 2) There must be a competent appointed lifting Machinery and Tackle Inspector on site who must inspect the equipment daily or before use, taking into account that:
 - All lifting machinery and tackle has a safe working load clearly indicated;
 - Regular inspection and servicing is carried out;
 - Records are kept of inspections and of service certificates;
 - There is proper supervision in terms of guiding the loads that includes a trained banksman to direct lifting operations and check lifting tackle;
 - The tower crane bases have been approved by an engineer;
 - The operators are competent as well as physically and psychologically fit to work and be in possession of a medical certificate of fitness which must be available on site.

2.7.8 Ladders and Ladder Work

- 1) The Contractor shall ensure that all ladders are inspected at least monthly, are in a good safe working order, are the correct height for the task, extend at least 1m above the landing, fastened and secured, and at a safe angle.
- 2) Records of inspections must be kept in a register on site.

2.7.9 General Machinery

The Contractor shall ensure compliance 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 who use machinery.

2.7.10 Portable Electrical Tools and Explosive Powered Tools

- 1) The Contractor shall ensure that use and storage of all explosive powered tools and portable electrical tools are in compliance with relevant legislation.
- 2) The Contractor shall ensure that all electrical tools, electrical distribution boards, extension leads, and plugs are kept in a safe working order.
- 3) The Contractor shall apply the following:
 - A competent person undertakes routine inspections and records are kept.
 - Only authorized trained persons use the tools.
 - The safe working procedures apply.
 - Awareness training is carried out and compliance is enforced at all times.
 - PPE and clothing is provided and maintained.
 - A register indicating the issue and return of all explosive rounds is implemented and maintained, and
 - That signs are posted up in the areas where explosive powered tools are being used.

2.7.11 High Voltage Electrical Equipment

- 1) All contractors must be made aware of the presence and location of High Voltage Equipment such as underground cables and overhead lines, and that the necessary precautionary steps are taken where work has to be executed in the vicinity of such equipment.
- Precautionary measures such as Isolation and Lock-Out of electrical systems or the use of electrically isolated tools must be used.

2.7.12 Public and Site Visitor Health and Safety

- 1) The Contractor shall ensure that every person working on or visiting the site, as well as the public in general, shall be made aware of the dangers likely to arise from site activities, including the precautions to be taken to avoid or minimize those dangers.
- 2) Appropriate Health and Safety Notices and signs shall be posted up, but shall not be the only measure taken.

2.7.13 Night Work

The Contractors must ensure that adequate lighting is provided to allow for work to be carried out safely.

2.7.14 Transportation of Workers

- 1) The Contractor and shall not:
 - Transport persons together with goods or tools unless there is an appropriate area or section to store such goods.
 - Transport persons on the back of trucks except if a proper canopy (properly covering the sides and top) has been provided with suitable seating areas.
 - Permit workers to stand or sit on the edge of the transporting vehicle.
 - Transport workers in LDV's unless they are closed/covered and have the correct number of seats for the passengers.
- No driver will transport more than six people on the back of a 1 Ton LDV and more than four passengers on the back of a ¹/₂ Ton LDV.
- 3) The driver of any LDV will not permit more than 2 passengers to occupy the cab of any single cab LDV and 4 passengers of any double cab LDV.
- 4) All vehicles operated on the site will in all aspects comply with the requirements of the Road Traffic Ordinance Act
- 5) Drivers of such vehicles will have a valid license for the code of vehicle being driven by them.
- 6) No servicing of vehicles will be permitted on a Construction Site, which is occupied by staff working for the Client.
- 7) Servicing or repairs of vehicles on site may only take place if such activities are performed with the necessary procedures in place to prevent any harmful effects to the environment.
- 8) All waste generated from servicing vehicles must be disposed off in accordance with relevant Environmental legislation.
- 9) In the event where Earth Moving Equipment is present on site the following must be adhered to:
 - Drivers of vehicles must be instructed to avoid parking behind earth moving vehicles to ensure that their vehicles are visible to the operator of earth moving vehicles.
 - Right of way must be afforded to earth moving machinery at all times.
 - Vehicles must only be permitted to park where possible in designated areas

2.8 Occupational Health and Environmental Management.

2.8.1 Occupational Hygiene

- 1) Exposure of workers to occupational health hazards and risks is very common in any work environment, especially in construction.
- 2) Occupational exposure is a major problem and all Contractors must ensure that proper health and hygiene measures are put in place to prevent exposure to these hazards.
- 3) Contractors must prevent inhalation, ingestion, absorption, and noise induction.
- 4) Site-specific health risks are tabled in Annexure D such as cement -dust, wood-dust, noise and so on but is not limited to these items.
- 5) Water to be utilized for drinking purposes may only be drawn from taps designated for drinking water purposes. Fire hydrants and fire hose reels may not be utilized for drinking water purposes.
- 6) In the event where staff is required to be away from home due to the work they have to perform on behalf of the Contractor, the Contractor will provide suitable clean dry and hygienic accommodation, the cost thereof shall be borne by the Contractor.

2.8.2 Environmental Management

- 1) The Contractor shall take all precautionary steps to prevent any pollution of the Environment.
- Any material, which may pose a harmful effect when disposed of by normal means, must be disposed of in an appropriate manner to eliminate its harmful effect on the environment after disposal.
- 3) The Contractor will ensure that adequate procedures are implemented and maintained to ensure that all waste generated including asbestos waste is placed in suitable receptacles and removed from the site promptly.
- 4) Plans to deal with spillages must be in place and maintained.
- 5) No waste materials liquid or solid may be disposed of in drains.
- 6) No burning of waste material may take place where such material being burned may result in pollution of the air or give

off toxic vapors which could be harmful to the health of employees or any other person present on site.

2.8.3 Welfare Facilities

- Contractors will supply sufficient toilets (1 toilet per 30 workers). Toilets will be so positioned that it is in close proximity of the workers. If more toilets are required contractors must make provision for this.
- 2) Showers (1 for every 15 workers).
- 3) Changing facilities.
- 4) Hand washing facilities, soap, toilet paper, and hand drying materials.
- 5) Waste bins must be strategically placed and emptied regularly.
- 6) Safe, clean storage areas must be provided for workers to store personal belongings and personal protective equipment.
- 7) Workers must not be exposed to hazardous materials/substances while eating and must be provided with sheltered eating areas.

2.8.4 Alcohol and other Drugs

- 1) No alcohol and other drugs will be allowed on site without the express permission of the Principal Contractor.
- 2) No person may be under the influence of alcohol or any other drugs while on the construction site.
- 3) Any person on prescription drugs must inform his/her Employer, who shall in turn report this to the Principal Contractor forthwith.
- 4) Any person suffering from any illness/condition that may have a negative effect on his/her safety performance must report this to his/her Employer, who in turn must report this to the Principal Contractor forthwith.
- 5) Any person suspected of being under the influence of alcohol or other drugs must be sent home immediately, to report back the next day for a preliminary inquiry. A full disciplinary procedure must be followed by the Contractor concerned and a copy of the disciplinary action must be forwarded to the Principal Contractor for his records.

2.9 <u>Electrical fencing.</u>

1) Contractor must comply with sect 12, 13 and 14 of the Electrical

Machinery Regulations.

2.10 Managing Exposure to SARS-COV-2

- 1) On the expiry of the declaration of the National State of Disaster under GN313 OF 15 March 2020, Notice No.R.1876 has been issued for the provision of Good Code of Practice: Managing Exposure to SARS-COV-2 in the Workplaces.
- 2) The Regulations for Hazardous Biological Agents, 2022 (HBA Regulations) list coronavirus as a listed hazardous biological agent, classed as group 3. It therefore places legal responsibilities on employers in respect of employers to limit the exposure and mitigate the risks of infection by SARS CoV-2.

ANNEUXRE A

The Contractor must submit proof of compliance with Annexure A with the construction phase H&S plan where applicable.

HSS Item No.	Requirement	OHSA Requirement	Submission Date
2.3.1	Notification of Intention to Commence Construction/Building Work	Complete Annexure 2 (Construction Regulations)	Before commencement on site
2.3.2	Assignment of Responsible Persons	All relevant appointments as per OHS Act, Construction Regs and Annexure B	Together with SHE Plan
2.3.3	Competence of Responsible Persons	Client Requirement & OHS Act	Together with SHE Plan
2.3.4	Compensation of Occupational Injuries and Diseases Act (COIDA) 130 of 1993	Construction Reg and Client Requirement	Together with SHE Plan
2.3.5	Occupational Health and Safety Policy	OHS Act	Together with SHE Plan
2.3.6	Health and Safety Organogram	Client Requirement	Together with SHE Plan
2.3.7	Initial Hazard Identification and Risk Assessment	Construction Regs.	Together with SHE Plan

ASSIGNMENT OF CONTRACTOR'S RESPONSIBLE PERSONS

ANNEXURE B

The Principal Contractor shall make the following appointments according to the initial risk assessment or as deemed necessary: (further appointments could become necessary as the project progresses)

Appointment	OHSA Reference	Requirement abbreviated
CEO Assignee	Section 16(2)	A competent person to assist with the on- site H&S, overall responsibility – Contractor's Responsible Person
Construction Manager	CR 8(1)	A competent person(s) to supervise and be responsible of Health & Safety related issues on site. The person is appointed to assist the CEO with his/her overall duties.
Construction Work Supervisor	CR 8(7)	A competent person(s) to supervise and be responsible of Health & Safety related issues on site. The person is appointed to assist the CEO with his/her overall duties.
Subordinate Construction Work Supervisors	CR 8(8)	A competent person to assist with daily supervision of construction work. The person assists the Construction Work Supervisor.
Health and Safety Officer	CR 8(5)	A competent Health and Safety officer in the control of all safety related aspects on site for the duration of the repair phase of this project.
Health & Safety	Section 17	A competent person(s) to inspect H&S in reference to plant, machinery and Health & Safety of persons in the workplace.
Health & Safety Committee Member(s)	Section 19	A competent person(s) representing the employer to assist with the on site Health & Safety matters.
Incident /Accident Investigator	GAR 8	 A competent person(s) to investigate incidents/accidents on site and could be: The employer H&S Representative Designated person Members of the H&S Committee
Risk Assessment Co- ordinator	CR 9	A competent person(s) to co-ordinate all risk assessments on behalf of the Principal Contractor. The same applies to Contractors.
Fall Protection Plan Co-ordinator	CR 10	A competent person(s) to prepare & amend the fall protection plan.
First Aiders	GSR 3	A qualified person(s) to address all on site first aid cases.
Lifting Machine & Equipment inspector	DMR 18	A competent person(s) to inspect lifting machines, equipment & tackle.
Scaffolding Erector	CR 16.1	A competent person(s) to erect scaffolding
Scaffolding Inspector	CR 16.2	A competent person(s) to inspect scaffolding before use and every time after bad weather etc
Temporary Works	CR 12	A competent person(s) to inspect formwork & support work

Excavation Inspector	CR 13	A competent person(s) to inspect excavation work and ensure that approved safe working procedures, are followed at all times
Ladder Inspector	GSR 13A	A competent person(s) to inspect monthly and ensure they are safe for use, keeping monthly record
Stacking Supervisor	CR 28	A competent person(s) to supervise all stacking and storage operations
Demolition Supervisor	CR 14(1)	A competent person(s) to supervise all demolition work
Explosive Powered Tools Inspector/Supervisor	CR 21	A competent person(s) to inspect & clean the tool daily and controlling all operations thereof.
Temporary Electrical Installations Supervisor	CR 24	A competent person(s) to control all temporary electrical installations.
Construction vehicles and Mobile Plant Supervisor.	CR 23(1)(k)	A competent person to inspect vehicles and plant on a daily basis prior to use and record such finding in register.
Fire-Fighting Equipment Inspector	CR 29	A competent person(s) to inspect fire- fighting equipment with required training certificate.

OTHER REQUIREMENTS

ANNEXURE C

The Principal Contractor shall comply but not be limited to the following requirements: report on these to the Client at progress meetings or at least monthly whichever is sooner.

What	When	Output	Accepted by Client & date
Induction training	Every worker before he/she starts work.	Attendance registers	
Awareness Training (Tool Box Talks)	At least weekly	Attendance registers	
Health & Safety Reports	Monthly	 Report covering: Incidents/accidents and investigations Non conformances by employees & External H&S audit reports 	
Emergency procedures	Ongoing evaluation of procedure	Table procedure in writing as well as tel. Numbers	
Risk assessment	Continuous	Documented risk assessment	
Safe work procedures	Drawn up before workers are exposed to new risks	Documented set of safe work procedures (method statements) updated and signed off.	
General Inspections	Weekly & daily	Report OHS Act compliance: • Scaffolding • Excavations • Formwork & support work • Explosive tools	
General Inspections	Monthly	 Fire-fighting equipment Portable electrical equipment Ladders Lifting equipment/slings 	
List of contractors	List to be updated weekly	Table list, number of workers and Company tel. Numbers	
Workmen's Compensation	Ongoing	Table a list of Contractors' Workman's Compensation proof of good standing	
Construction site rules & Section 37.2 Mandatory Agreement	Ongoing	Table a report of all signed up Mandatory's	

SARS-CoV-2 Ongo Good Code of Practice reads with HBA	g Prepare risk assessment and plan	
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ANNEXURE D

Project/site Specific Requirements

The following is a list of activities and considerations that have been identified for the project and site and for which the Risk Assessment, Standard Working Procedures (SWP), management and control measures and Method Statements (where necessary) have to be developed by the Principal Contractor.

- Demolition work
- Brick work
- Concrete work
- Creating openings in walls
- Preparation of paint surfaces
- Painting of walls
- Working with cement products
- Dust
- Metal/Steel work
- Exposure to noise
- Establishment of site office
- Locating of existing services
- Loading and offloading of trucks
- Aggregate/sand and other material delivery
- Protection against dehydration and heat exhaustion
- Manual and mechanical handling
- Lifting and lowering operations.
- Use of Potable electrical Equipment
 - ° Angle grinder
 - ° Electric Drilling Machine
 - ° Skill Saw
- Use and storage of flammable liquids and other Hazardous substances
- Site works
- Excavations
- Electrical installation work
- Mechanical works
- Working in the vicinity of the public and staff of the client
- Working at heights
- Working with construction machinery and plant
- Persons working in close vicinity of construction machinery and plant.
- Hot works i.e. welding, flame cutting etc.

NOTE:

The above list is by no means exhaustive and should not be limited to these activities but must cover all activities that forms part of the said construction work. Each activity must be split down to individual tasks and all associated hazards identified and listed in the risk assessment. This ensures that the critical tasks and subsequent critical hazards are not missed.

NB:-

Although some of the work related to health and safety work is mentioned /noted in certain measured items in the bill of quantities it is still the contractor's responsibility to allow in his tender price for all work related to health and safety and the requirements as per this Health and Safety Specification.



Tender No: CPT 1001/22

Part C6: Annexes

Annex A – Architectural Drawings Annex B – Electrical Drawings



DETAIL C

NB: ALLOW FOR ENTIRE BATHROOM TO BE PAIN

USER CLIENT DEPARTMENT: APPROVED/NOT APPROVED:



plan view - STAFF BATHROOMS-

DETAIL D

		DIMENSIONS
		all dimensions must be checked and varified against existing structure on site.
		all discrepancies must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified on site.
		never scale from this drawing.
		LEVELS
		all levels to match existing.
		all ramps to have a mininum fall of 1:12 where indicated
		MATERIALS
		all materials and construction methods must comply with the NATIONAL BUILDING REGULATIONS and the PW 371
→+900	soapdish/mirror	
➡ +820	whb	
 +595	cl toilet roll holder	

NOTES

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		-	DEPARTMENT OF PUBLIC WORKS Private Bag X85 Pretories 0001 Tel (012) 337 2000	
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NEW BATHROOM FOR ROOIWAL, TALENI & BUILDING 117



DETAIL D

SHOWER TO BE FITTED WITH SS HANDRAILS AND A ADJUSTABLE HAND HELD SHOWER HEAD

FIT NEW RETRACKTABLE SHOWER SEAT **BOLTED TO WALLS**



1700

Lights to be fitted with movement sensors install new emergency alarm and isolator.

DETAIL C



plan view - BATHROOM FOR ROOIWAL & TALENI

BATHROOM : BUILDING 117

USER CLIENT DEPARTMENT: APPROVED/NOT APPROVED:

NOTES DIMENSIONS

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never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

all materials and construction methods must comply with the NATIONAL BUILDING REGULATIONS and the PW 371

+900 soapdish/mirror ____+820 whb

➡+595 cl toilet roll holder

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ALLOW FOR DIRECTIONAL SIGNS TO ALL RAMPS AND WALKWAYS



Paraplegic Sign

Sign type "A" Scale 1 : 5 - Sign for wall mounting

Direction Indicator

Sign type "B" Scale 1 : 5 - Sign for wall mounting



plan view - NEW RAMPS ON EXISTING WALKWAYS- HQ Building

USER CLIENT DEPARTMENT: APPROVED/NOT APPROVED:

NOTES

DIMENSIONS

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all discrepancies

must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified on site.

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LEVELS

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all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

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SHOWN	NEW RAMPS TO HQ BATHROOMS		
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Lights to be fitted with movement sensors install new emergency alarm and isolator.

DETAIL D











plan view - STAFF BATHROOMS- OFFICERS CLUB

USER CLIENT DEPARTMENT: APPROVED/NOT APPROVED:



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never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

all materials and construction methods must comply with the NATIONAL BUILDING REGULATIONS and the PW 371

→+900 soapdish/mirror ____+820 whb

→+595 cl toilet roll holder

		Amen	dments
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SHOWN	BROPOSED BATHROOM FOR OFFICERS CLUB		
SCALE			CAD REFERENCE
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DRAWN DF



NEW RAMP LAYOUT - OFFICERS CLUB 1:100

BUILDING 117

all dimensions must be checked and varified against existing structure on site.

all discrepancies must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified on site.

never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

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ENTRANCE TO THE AUDITORIUM



NOTES DIMENSIONS

all dimensions must be checked and varified against existing structure on site.

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never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

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HUIS : BOENKE



NEW RAMP LAYOUT

1:100

NOTES DIMENSIONS

all dimensions must be checked and varified against existing structure on site.

all discrepancies must be pointed out to the architect for rectification or clarification before work commence, all dimensions to be checked and varified on site.

never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

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PE	ACCESSIBILITY FOR PERSONS WITH DISABILITIES						
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NOTES DIMENSIONS

all dimensions must be checked and varified against existing structure



NOTES

DIMENSIONS

all dimensions must be checked and varified against existing structure on site.

all discrepancies must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified on site.

never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

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PASSAGE

NEW PLATFORM LIFT TO BE FITTED TO EXISTING STAIRCASE 1:100



NEW RAMP LAYOUT- REAR ENTRANCE TRAINING FACILITY

NOTES

DIMENSIONS

all dimensions must be checked and varified against existing structure on site.

all discrepancies

must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified on site.

never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

all materials and construction methods must comply with the NATIONAL BUILDING REGULATIONS and the PW 371



DATE DESCRIPTION



DEPARTMENT OF JEPAHIMENI UF PUBLIC WORKS Private Bag X65 Pretoria 0001 Tel (012) 337 2000

Director-General:

OUDTSHOORN DOD

ACCESSIBILITY FOR PERSONS WITH DISABILITIES

NEW RAMP AT AUDITORIUM

DAT ARCH 07 DRAWN DF

890

demolish part of existing concrete floor and construct new ramp and steps

RISERS : 170mm TREADS :300mm





SECTIONAL ELEVATION



NOTES DIMENSIONS

all dimensions must be checked and varified against existing structure on site

all discrepancies must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified on site

never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

GRAAN SUIER BUILDING

"Mentis type or equal approved"GMS 50mmØ x 2mm wall thickness welded handrail including closers to all ends - bolted to concrete with achor bolts and nuts Stanchion tube : 50mmØ x 2mm wall thickness Bends: 50mmØ x 2mm wall thickness Handrail tubing : 50mmØ(min) x 2mm wall thickness



SECTIONAL ELEVATION

1:100



NEW RAMP LAYOUT - NCO BUILDING 104

1:100

NOTES DIMENSIONS

all dimensions must be checked and varified against existing structure on site.

all discrepancies must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified on site.

never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

all materials and construction an indefinition and constructed and the methods must comply with the NATIONAL BUILDING REGULATIONS and the PW 371

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TALENI & ROOIWAL



NOTES DIMENSIONS

all dimensions must be checked and varified against existing structure

all discrepancies

on site.

must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified

all ramps to have a mininum fall of 1:12 where indicated

methods must comply with the NATIONAL BUILDING REGULATIONS




LIBRARY

NEW PLATFORM LIFT TO BE FITTED TO EXISTING STAIRCASE - LIBRARY 1:100



1:100

NOTES DIMENSIONS

all dimensions must be checked and varified against existing structure on site.

all discrepancies must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified on site

never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

all materials and construction methods must comply with the NATIONAL BUILDING REGULATIONS and the PW 371

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NOTES DIMENSIONS

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LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

all materials and construction methods must comply with the NATIONAL BUILDING REGULATIONS and the PW 371

USER CLIENT DEPARTMENT: APPROVED/NOT APPROVED:

0,6mm guage "chromodek" - or Equal and Approved, with screened symbol as indicated with standard grey on reverse side. 4 x fixed

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	ACCESSIBILITY FOR PERSONS WITH DISABILITIES					
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	DISABLED PARKING AT THE HQ BUILDING					
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DOOR TO SWING TO OUTSIDE

NEW IRON MONGERY TO BE INSTALLED TO NEW ENTRANCE DOORS

REMOVE 2x URINALS AND HAND OVER TO CLIENT. BLOCK-OFF PLUMBING AND MAKE GOOD.

EXISTING LAYOUT

plan view - STAFF BATHROOMS- HQ Building

USER CLIENT DEPARTMENT: APPROVED/NOT APPROVED:

PROPOSED LAYOUT

NOTES DIMENSIONS

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LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

all materials and construction methods must comply with the NATIONAL BUILDING REGULATIONS and the PW 371

→+900 soapdish/mirror ___+820 whb

➡+595 cl toilet roll holder

CONSTRUCT NEW WALLS ON EXISTING	Amendments NR DATE DESCRIPTION
ATHROOM CONCRETE SLABS AND MAKE GOOD.	DEPARTMENT OF PUBLIC WORKS Privete Bag X85 Privete Bag X85 Privete Bag X85 O001 Tel (012) 337 2000 Birector-General:
	SERVICE OUDTSHOORN DOD
NEW VANITY CUPBOARD WITH RE-USED BASINS AND TAPS	ACCESSIBILITY FOR PERSONS WITH DISABILITIES
INSTALL NEW 600x900mm MIRROR. FIX TILING WHERE NECESSARY	SEXWN PROPOSED BATHROOM FOR HQ BUILDING
	SCALE CAD REFERENCE
	DATE DRAWING NUMBER ARCH 02
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plan view - STAFF BATHROOMS- TRAINING FACILITY

USER CLIENT DEPARTMENT: APPROVED/NOT APPROVED: NOTES DIMENSIONS all dimensions must be checked and varified against existing structure on site. all discrepancies

must be pointed out to the architect for rectification or clarification before work commence. all dimensions to be checked and varified on site.

never scale from this drawing.

LEVELS

all levels to match existing.

all ramps to have a mininum fall of 1:12 where indicated

MATERIALS

all materials and construction methods must comply with the NATIONAL BUILDING REGULATIONS and the PW 371

→+595 cl toilet roll holder

BE BUILT TO UNDERSIDE OF R TO CELLING HEIGHT =2600mm	NR	DATE	Ame	ndments TION
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THE USE OF TRADE NAMES ON THE DRAWING IS PROHIBITED, AND ANY TRADE NAME EQUIPMENT FOR THI PROJECT REQUIRES APPROVAL FROM THE RESPONSIBLE ENGINEER. BEFORE ERECTION WORK BEGINS 1. THE CONTRACTOR MUST VISIT SITE FOR FINAL DESIGN MEASUREMENTS. 2. ALL BUILDING ALTERATIONS BY MAIN CONTRACTOR. 3. ALL DIMENSIONS ARE IN MM. 4. ALL WORK TO BE DONE IN ACCORDANCE TO SANS 7396:1 200 SANS 10263:2 2008 AND AS GUIDED BY THE RESPONSIBLE ENGINEER.					
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August 2021	DESIGNED BY: S. FATA				
CAD REFERENCE PW:002-04	CHECKED BY: T.MSIMANO	àA			

BATHROOM : BUILDING 117



CHIEF DIRECTOR D	DEPARTMENT	:	M.	TLADI	Pr.E
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	LEGEND
SYMBOLS	DESCRIPTION
\otimes	Ceiling pull cord
	Overdoor light indicator
	Reset button
PSU	Power supply unit
	Distribution Board(non essential)

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BATHROOM FOR TALENI



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NEW PLATFORM LIFT TO BE FITTED TO EXISTING STAIRCASE

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NEW PLATFORM LIFT TO BE FITTED TO EXISTING STAIRCASE - LIBRARY

	LEGEND	
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
Ø	30A Isolator IP65	350mm Above FFL
	PVC Cable in 20mm Galvanized steel conduits	Safely secured on solid walls and designated channels
	Distribution Board (existing)	Existing



APPROVED/NOT APPRO

	NOTES: THE USE OF TRADE NAMES ON TH DRAWING IS PROHIBITED, AND AN TRADE NAME EQUIPMENT FOR TH PROJECT REQUIRES APPROVAL FROM THE RESPONSIBLE ENGINEER. BEFORE ERECTION WORK BEGINS 1. THE CONTRACTOR MUST VISIT SITE FOR FINAL DESIGN MEASUREMENTS. 2. ALL BUILDING ALTERATIONS BY MAIN CONTRACTOR. 3. ALL DIMENSIONS ARE IN MM. 4. ALL WORK TO BE DONE IN ACCORDANCE TO SANS 7396:1 200 SANS 10263:2 2008 AND AS GUIDEI BY THE RESPONSIBLE ENGINEER.	Y IIS 3:
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	PW:003-03 T.MSIMANGA	



LEGEND	
DESCRIPTION	MOUNTING HEIGHT
20 W LED Round Bulkhead IP65	1000mm Above FFL, 500mm away from shaft
16A Light Switch IP65	700mm Above FFL, 500mm away from shaft
16A Double Socket Outlet IP65	500mm Above FFL, 500mm away from shaft
30A Isolator IP65	500mm below ceiling
PVC Cable in 25mm Galvanized steel conduits	Safely secured on solid walls and designated channels
Distribution Board (existing)	Existing
	DESCRIPTION 20 W LED Round Bulkhead IP65 16A Light Switch IP65 16A Double Socket Outlet IP65 30A Isolator IP65 PVC Cable in 25mm Galvanized steel conduits

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	NOTES: THE USE OF TRADE NAMES ON THIS DRAWING IS PROHIBITED, AND ANY TRADE NAME EQUIPMENT FOR THIS PROJECT REQUIRES APPROVAL FROM THE RESPONSIBLE ENGINEER.
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	CAD REFERENCE CHECKED BY: DW:001-01 T. MSIMANGA

NEW BATHROOM FOR THE TRAINING FACILITY

SDB D1	PASSAGE
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PROPOSED LAYOUT	

CHIEF DIRECTOR DEPARTMENT	:	M.	TLADI	Pr.E
APPROVED/NOT APPROVED	:			
USER CLIENT DEPARTMENT:				
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	LEGEND
SYMBOL	DESCRIPTION
B	20W LED Round Bulkhead
S	Occupancy Sensor
7	16A Light Switch
	2.5mm ² PVC Cable (existing)
	Distribution Board (existing)

NOTES: THE USE OF TRADE NAMES ON THIS DRAWING IS PROHIBITED, AND ANY TRADE NAME EQUIPMENT FOR THIS PROJECT REQUIRES APPROVAL FROM THE RESPONSIBLE ENGINEER. BEFORE ERECTION WORK BEGINS: 1. THE CONTRACTOR MUST VISIT SITE FOR FINAL DESIGN MEASUREMENTS. 2. ALL BUILDING ALTERATIONS BY MAIN CONTRACTOR. 3. ALL DIMENSIONS ARE IN MM. 4. ALL WORK TO BE DONE IN ACCORDANCE TO SANS 7396:1 2009, SANS 10263:2 2008 AND AS GUIDED BY THE RESPONSIBLE ENGINEER.				
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APPROVED/NOT APPROVED:

T. MSIMANGA

PW:001-03

NEW BATHROOM FOR GRAAN SUIER BUILDING



EXISTING LAYOUT

	LEGEND
Symbol	Description
В	20W LED round bulkhead
S	Occupancy sensor
	2.5mm² PVC cable
	Distribution Board



STAFF BATHROOMS-

CHIEF DIRECTOR DEPARTMENT : N APPROVED/NOT APPROVED :	И.	TLADI	Pr.E
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	DATE August 2021	DESIGNED BY: S. FATA			
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BATHROOM : BUILDING 117

	LEGEND
SYMBOL	DESCRIPTION
B	20W LED Round Bulkhead
S	Occupancy Sensor
	2.5mm² PVC Cable (existing)
	Distribution Board (existing)



CHIEF DIRECTOR DEPARTMENT : M.	TLADI Pr.E
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BATHROOM FOR ROOIWAL



	LEGEND
SYMBOL	DESCRIPTION
B 20W LED Round Bulkhead	
S	Occupancy Sensor
	2.5mm ² PVC Cable (existing)
27	16A 1 Lever 2 Way Light Switch
	Distribution Board (existing)

CHIEF DIRECTOR DEPARTMENT	:	M.	TLADI	Pr.E
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	August 2021	DESIGNED BY: S. FATA			
	CAD REFERENCE PW:001-06	CHECKED BY: T. MSIMAN	GA		

BATHROOM FOR TALENI



	LEGEND
SYMBOL	DESCRIPTION
B	20W LED Round Bulkhead
S	Occupancy Sensor
	2.5mm ² PVC Cable (existing)
27	16A 1 Lever 2 Way Light Switch
	Distribution Board (existing)

CHIEF DIRECTOR DEPARTMENT	:	M.	TLADI	Pr.E
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Eng.



 SYMBOLS
 DESCRIPTION

 Image: Symbols
 DESCRIPTION

 Image: Observation
 Ceiling pull cord

 Image: Observation
 Overdoor light indicator

 Image: Observation
 Reset button

 Image: Psum
 Power supply unit

 Image: Observation
 Distribution Board(non essential)

CHIEF DIRECTOR DEPARTMEN APPROVED/NOT APPROVED USER CLIENT DEPARTMENT: APPROVED/NOT APPROVED:

	NOTES: THE USE OF TRADE NAMES ON THIS DRAWING IS PROHIBITED, AND ANY TRADE NAME EQUIPMENT FOR THIS PROJECT REQUIRES APPROVAL FROM THE RESPONSIBLE ENGINEER. BEFORE ERECTION WORK BEGINS: 1. THE CONTRACTOR MUST VISIT SITE FOR FINAL DESIGN MEASUREMENTS. 2. ALL BUILDING ALTERATIONS BY MAIN CONTRACTOR. 3. ALL DIMENSIONS ARE IN MM. 4. ALL WORK TO BE DONE IN ACCORDANCE TO SANS 7396:1 2000 SANS 10263:2 2008 AND AS GUIDED
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T : M. TLADI Pr.Eng.	DISABLED PERSONS ALARM SYSTEM
•	SCALE DRAWNS BY 1:100 S. FATA
	DATE DESIGNED BY: August 2021 S. FATA
	CAD REFERENCE CHECKED BY:

NEW BATHROOM FOR THE TRAINING FACILITY





		LEGEND
	SYMBOLS	DESCRIPTION
	\bigotimes	Ceiling pull cord
		Overdoor light indicator
Reset buttor		Reset button
	PSU	Power supply unit
		Distribution Board(non essential)

CHIEF DIRECTOR DEPARTMENT : M. TLADI Pr.E
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	Construction					
	As Built					
	Amendments NR DATE DESCRIPTION					
	Public works <u>& infrastructure</u> Department REPUBLIC OF SOUTH AFRICA					
	DEPARTMENT OF DEFENCE					
	OUDTSHOORN :DOD SADF SCHOOL OF INFANTORY					
	PROFECTITIE INSTALLATION OF FACILITIES FOR PEOPLE WITH DISABILITIES					
	DISABLED PERSONS ALARM SYSTEM					
\exists	scale 1:100	DRAWN: BY				
	DATE August 2021	DESIGNED BY: S. FATA				
	CAD REFERENCE PW:002-02	CHECKED BY: T.MSIMANC	θA			

plan view - STAFF BATHROOMS- OFFICERS CLUB



