



INDEPENDENT DEVELOPMENT TRUST

VOLUME 1

**TENDERING PROCEDURES, RETURNABLE DOCUMENTS, AGREEMENT AND
CONTRACT DATA, SCOPE OF WORK AND SITE INFORMATION**

**PROCUREMENT OF A CONTRACTOR FOR THE
CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM
MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE
QUARTERS AT MELTON RESEARCH FARM FOR THE DEPARTMENT:
AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE**

BID NO: DRD01NWER003

CLOSING DATE AND TIME: 13 March 2023at 12h00

Independent Development Trust

SCM / Technical Enquiries

E-mail: NWTenders@idt.org.za

Bidder:

CIDB Registration Number:..... **5GB GENERAL BUILDING OR HIGHER**

CSD Registration Number:

COIDA / FEMA Certificate Number:

Contact Person:

Contact Details:

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T1.1 BID NOTICE AND INVITATION TO BID

INDEPENDENT DEVELOPMENT TRUST

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2- BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

T1.1 Bid Notice and Invitation to Bid

On behalf of the Department: Agriculture and Rural Development, North West Province, the Independent Development Trust, invites bidders for the **PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE**

The evaluation of the tender will be carried out in three (3) phases.

Phase 1: Mandatory Requirements

Only bidders, who meet the following requirements will be eligible for further evaluation.

- Proof of valid CIDB registration – Grade 5GB or higher
- Valid COIDA or FEMA certificate by the day of tender closure
- Attendance to the compulsory site briefing meeting
- Duly completed SBD 1, 4, and 6.1 in **full**
- The bidder must complete Form of Offer, fully signed and witnessed in the tender document in full
- The bidder must provide a copy of the Joint Venture (JV) agreement signed by all parties (where JV is used)
- Acknowledgement of Addenda to Tender Documents
- Letter of Authority for signatory and / or Board / company resolution.
- The bidder must provide proof of registration on Central Supplier Database (CSD) and / or CSD Numb

- Note:**
- (i) Failure to submit any of the above documents / requirements shall result in disqualification of the bid.
 - (ii) If any of the Directors are in the Employment of the State shall result in disqualification of the bid.
 - (iii) If the bidder is listed on National Treasury List of Restricted Suppliers
 - (iv) If any of its Directors are Listed on the Register of Defaulters shall result in disqualification of the bid.
 - (v) In the case of a Bidder, who during the last ten (10) years has been Terminated on Previous Contracts with the IDT shall result in disqualification of the bid.

The IDT will assess all bids received based on its procurement policy in the event that information is required from the bidder/s, the IDT reserves its rights to request the information which shall be submitted within seven (7) working days from request and failure to submit will result in disqualification.

Non-Compulsory Document:

- Tax Compliance Letter with a unique pin

Phase 2: Functionality criteria

Criteria	Points Allocation
Relevant Previous Experience on completed projects of a similar nature and value in the last ten (10) years	25 points
Construction and Renovations projects	10 points
Signed and stamped client references on the same projects listed above (both Client & Client Representative).	20 points
Qualifications, Skills and Experience of project key resources	35 points
Locality	10 points
Total	100 points
NB: Minimum qualifying functionality threshold is 60 points out 100	

Similar Nature of work for evaluation Construction and Renovation of Buildings (No points will be allocated for other nature and value of works like Civil Engineering projects, Water projects, Transport Projects, Traffic Engineering Projects, and all Electrical & Mechanical Engineering projects)

Additional Documents Required

CIPC Document

Original certified ID Copies of directors (not older than 6 Months)

Particulars of Tender's Projects (Appointment letters and completion certificates)

Schedule of Tenderer's References

Schedule of Subcontractors

CV of Key Personnel including the OHS

Original certified copies of Certificates/qualifications (not older than 6 Months)

Original certified copies of all Professional Registrations of Staff.

Only bidders who obtain 60 points or higher on the functionality threshold will be evaluated further.

Only bidders who are competent and who have achieved the minimum functionality threshold of 60 points or higher will be evaluated on a 80/20 (Price / Specific Goals) points based on the Preferential Procurement regulation, Government Gazette No 47452 dated 4 November 2022. IDT empowerment strategy allocated the 20 and 10 points respectively.:

Phase 3: Preferential Point System

The 80/20 Preferential Point System will be applied, where 80 points will be allocated for price and 20 points (Price / Specific Goals) points based on the Preferential Procurement regulation, Government Gazette No 47452 dated 4 November 2022. IDT empowerment strategy allocated the 20 and 10 points respectively.

The 80/20 Evaluation System will be used for procuring items with values of equal or below R50 000 000 inclusive of Vat (PPPFA and IDT SCM Policy)

(a) Price (80 points)

and

(b) Specific Goals (20 points)

The specific goals allocated points in terms of this tender Number of points allocated (80/20 system)

Women 100% Ownership 6

Youth 100% Ownership 6

People with Disabilities 100% Ownership 4

Black Male 100% Ownership 4

Source Documents to be submitted with the Tender:

- CIPC Document (Company Registration Document will be required for verification (CIPC DOC))
- Woman (Originally Certified ID Document)
- Youth (Originally Certified ID Document)
- People with Disability (Letter from the Dr. Confirming the Disability)
- Black Ownership (Originally Certified ID Document)

In order to claim and be awarded B-BBEE points bidders must submit a B-BBEE certificate issued by a SANAS accredited agency or certificate issued by the Companies and Intellectual Property Commission or Originally Certified copy of the sworn affidavit in the prescribed format by the National Treasury for EMEs and QSEs or BBEE will be accepted to score points.

Bidders bidding as Joint Ventures are required to submit an original consolidated B-BBEE certificate from a SANAS accredited verification agency in order to qualify for points for the B-BBEE status level as one entity.

Sworn Affidavits in cases of EME's (Turnover of R10 million or less) and only those QSE's which are at least 51% Black – owned as prescribed in terms of B-BEE Codes of Good Practice and in the format provided by the Department of Trade and Industry will be accepted.:

A **compulsory site briefing / clarification meeting** will be held on **01 March 2023 at 10h00** at the **Ganyesa Tribal Offices**. The GP The GPS coordinates are 26°58'64.44"S and 24°17'72.50"E. **Tender must arrive on time because we will be travelling to site. Tenderers must note that the distance from Ganyesa Tribal Office to Melton Research Farm is + or – 50 kilometres**

Note: Bidders are requested and encouraged to arrive early before the commencement of the briefing session. No late arrivals will be allowed in the briefing meeting. (i.e later than 01 March 2023 at 10h00).

..:

All SCM and Technical enquiries relating to this bid must be directed in writing to NWTenders@idt.org.za during office hours (08h30 – 17h00) weekdays. Enquiries will be accepted until the 06 March 2023 at 17h00. No Verbal or telephonic queries will be attended to. Any attempt to verbally contact the IDT's Agent or IDT's employee to influence outcome of this tender will lead to disqualification.

On submission of Tender documents, the bidder must submit a signed original bid document in hard copy.

Requirements for sealing, addressing, delivery, opening and assessment of bids are stated in the Tender Data. (Refer to Section T1.2)

The bid closing date is **13 March 2023 at 12h00** and bids shall be submitted in the tender box at IDT's North West Regional Office;

**4071 Joules Street
Industrial Site
Mahikeng
2735**

Telegraphic, telephonic, telex, facsimile, e-mail and late bids **WILL NOT** be accepted.

The Independent Development Trust does not bind itself to accept the lowest or any particular bid.

T1.2 BID DATA

INDEPENDENT DEVELOPMENT TRUST

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

T1.2 Bid Data

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of tenderers as an Annexure to this Tender Data.

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

The additional conditions of bid are:

Clause number	BID DATA FOR PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE– BID NUMBER: DRD01NWER003
F.1.1	The employer is the Independent Development Trust on behalf of the Department: Agriculture and Rural Development, North West Province
F.1.2	<p>The bid documents issued by the employer comprises:</p> <p>THE BID</p> <p>Part T1: Bidding procedures T1.1 Bid notice and invitation to bid T1.2 Bid data</p> <p>Part T2: Returnable documents T2.1 List of returnable documents T2.2 Returnable schedules</p> <p>THE CONTRACT</p> <p>Part C1: Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Form of Guarantee C1.4 Adjudicator's agreement C1.5 Agreement in terms of Occupational Health and Safety C1.6 Waiver of Lien</p> <p>Part C2: Pricing data C2.1 Pricing instructions C2.2 Bills of quantities</p> <p>Part C3: Scope of work C3 Scope of work</p>

	<p>Part C3: Scope of work C4 Site Information</p> <p>Addendum to the Contract Annexures Annexure A: Architectural Drawings Annexure B: Electrical Specifications & Drawings Annexure C: Civil and Structural Drawings</p>
F.1.4	<p>The employer's agent is:</p> <p>Bosele Consulting Pty) LTD</p> <p>Mr. T. Seshibe</p> <p>161 The Islands, The Island Estate, Extension 1, Madibeng</p> <p>E- mail: info@boseleconsulting.co.za</p>
F.2.1	<p>Eligibility</p>
F.2.1.1	<p>Only those bidders who satisfy the following eligibility criteria are eligible to submit tenders:</p>
F.2.1.1.1	<p>CIDB Grading</p> <p>In order to be considered for an appointment in terms of this bid, the bidder must be registered with the CIDB, in a contractor grading designation in accordance with the sum tendered for a Grade 5GB class of construction work.</p> <p>Joint ventures are eligible and preferred with particular reference to local participation and as such submit tenders provided that:</p> <ol style="list-style-type: none"> 1. every member of the joint venture is registered with the CIDB; 2. the lead partner has a contractor grading designation in the Grade 5GB or above class of construction work; and 3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to 5GB contractor grading designation determined in accordance with the sum tendered for a (GB) General Building class of construction work
F.2.1.1.2	<p>Key Personnel</p> <p>In order to be considered for an appointment in terms of this bid, the bidder must have the following key personnel in its permanent employment at the close of the bid. Alternatively, a signed undertaking from an organisation having the required personnel, stating that they will undertake the necessary work on behalf of the bidder in terms of a sub-consultant agreement, will be acceptable. Such undertaking must be attached to the "Key Personnel" schedule, Part T2.2: Returnable Schedules.</p> <p>Individuals must be identified for each of the key personnel listed on the "Key Personnel" schedule, Part T2.2: Returnable Schedules.</p> <p>Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 5 working days replace the key personnel listed on the "Key Personnel" schedule, Part T2.2: Returnable Schedules with a person with equivalent competencies and subject to approval by the employer.</p>
F.2.6	<p>Acknowledge addenda</p> <p>Acknowledge receipt of addenda to the bid documents, which the employer may issue, and if necessary apply for an extension to the closing time. If the Addenda has financial implications, failure to acknowledge the addenda may eliminate your bid from evaluation. This is due to incomparability of offers with the rest of the bidders</p>

Clause number	BID DATA FOR PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE– BID NUMBER: DRD01NWER003
F.2.7	<p>Clarification Meeting</p> <p>A compulsory site briefing / clarification meeting will be held on 01 March 2023 at 10h00 at the Ganyesa Tribal Offices. The GP The GPS coordinates are 26°58'64.44"S and 24°17'72.50"E. Tender must arrive on time because we will be travelling to site. Tenderers must note that the distance from Ganyesa Tribal Office to Melton Research Farm is + or – 50 kilometres</p> <p>Bidders shall sign the attendance register in the name of the bidding entity. Addenda if any will be issued to bidders appearing on the attendance register.</p> <p>Note: Bidders are advised to allow enough travelling time to the briefing meeting.</p>
F.2.8	<p>Seek clarification</p> <p>Bidders can request clarification of the bid documents, if necessary, by notifying the employer in writing to NWtenders@idt.org.za during office hours (08h30 – 17h00) weekdays at least 5 (five) working days before the closing time and date stated in F.2.15.</p>
F.2.9	<p>Insurances</p> <p>Refer to contract data for insurance requirements. (Refer to Section C1.2)</p>
F.2.11	<p>Alterations to documents</p> <p>Do not make any alterations or additions to the bid documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the bidder.</p> <p>All signatories to the bid offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.</p>
F.2.12	<p>Alternative Bid Offers</p> <p>No alternative tender offers will be considered.</p>
F.2.13	<p>Submitting a Bid Offer</p>
F.2.13.4	The bidder will sign the original of the bid offer.
F.2.13.5	<p>The bidder must submit tender offer in a sealed envelope. (Clearly marked</p> <p>PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE– BID NUMBER: DRD01NWER003</p> <p>On submission of Tender documents, the bidder must submit a signed original bid document in hard copy and one softcopy of the bid document using USB-memory stick / Disc (read only).</p> <p>The bid document softcopy on the USB-memory stick should be indexed the same way as the original bid hard copy document, which can be returned back to the bidder after the evaluation process is completed.</p>
F.2.13.6	Two-envelope system – not applicable
F.2.13.7	The employer's details and address for delivery of tender offers and identification details that are to be shown on each tender offer package are:
F.2.13.9	<p>Employer's address: North West Regional Office 4071 Joules Street Industrial Site Mahikeng 2735</p> <p>Identification details: Tender No: DRD01NWER003 Description: PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE</p> <p>Tender offers submitted by facsimile, e-mail or reproduced will be rejected by the employer. Tender documents must be submitted in an original format as issued by the employer.</p>

Clause number	BID DATA FOR PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE– BID NUMBER: DRD01NWER003
F.2.15	Closing Time of Tender
F.2.15.1	<p>The closing time for submission of tender offers is by no later than 13 March 2023 at 12h00.</p> <p>Location of tender box: North West Regional Office 4071 Joules Street Industrial Site Mahikeng 2735</p> <p>Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.</p>
F.2.16	Tender Offer Validity
F.2.16.1	The bidder is required to hold the bid offer valid for a period of 90 calendar days (<i>from the bid closing date</i>)
F.2.19	Inspections, Tests and Analysis
	Access shall be provided for inspections, tests and analysis as may be required by the employer.
F.2.23	Certificates
	<p>The bidder is required to submit with his tender a Contractor Registration number issued by the Construction Industry Development Board (CIDB).</p> <p>Where a bidder bids through joint venture formation, such bidder should include a joint venture agreement duly signed by each partner of such joint venture and an original consolidated B-BBEE certificate.</p>
F3.5	Two-envelope system – not applicable
F.3.1	Evaluation of Tender Offers
	The procedure for the evaluation of a responsive tender will be in terms of the Preferential Procurement Regulations 2022 on a 80/20 or 90/10 preference point system.
F.3.11.3	<p>In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/documentation stated in the conditions of this tender:</p> <p>In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—</p> <p>(a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or</p> <p>(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.</p>

Clause number	BID DATA FOR PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE– BID NUMBER: DRD01NWER003																												
F.3.11.8	<p>Scoring Preference</p> <p>Table 1: Specific goals for the tender and points claimed are indicated per the table below. <i>(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.</i> <i>Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)</i></p> <table><tr><th>The specific goals allocated points in terms of this tender</th><th>Number of points allocated (90/10 system) (To be completed by the organ of state)</th><th>Number of points allocated (80/20 system) (To be completed by the organ of state)</th><th>Number of points claimed (90/10 system) (To be completed by the tenderer)</th><th>Number of points claimed (80/20 system) (To be completed by the tenderer)</th></tr><tr><td>Women 100% Ownership</td><td>3</td><td>6</td><td></td><td></td></tr><tr><td>Youth 100% Ownership</td><td>3</td><td>6</td><td></td><td></td></tr><tr><td>People with Disabilities 100% Ownership</td><td>2</td><td>4</td><td></td><td></td></tr><tr><td>Black Male 100% Ownership</td><td>2</td><td>4</td><td></td><td></td></tr></table> <p>Source Documents to be submitted with the Bid or RFQ</p> <p>*CIPC Document (Company Registration Document will be required for verification (CIPC DOC))</p> <p>*Woman (Originally Certified ID Document)</p> <p>*Youth (Originally Certified ID Document)</p> <p>*People with Disability (Letter from the Dr. Confirming the Disability) *Black *Ownership (Originally Certified ID Document)</p>				The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)	Women 100% Ownership	3	6			Youth 100% Ownership	3	6			People with Disabilities 100% Ownership	2	4			Black Male 100% Ownership	2	4		
The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)																									
Women 100% Ownership	3	6																											
Youth 100% Ownership	3	6																											
People with Disabilities 100% Ownership	2	4																											
Black Male 100% Ownership	2	4																											

F.3.11.9

The quality criteria and maximum score in respect of each of the criteria are as follows:

Criteria	Points Allocation
A. Relevant Previous Experience on completed projects of a similar nature and value in the last ten (10) years	25 points
B. Construction and Renovations projects	10 points
C. Signed and stamped client references on the same projects listed above (both Client & Client Representative).	20 points
D. Qualifications, Skills and Experience of project key resources	35 points
E. Locality	10 points
Total	100 points
NB: Minimum qualifying functionality threshold is 60 points out 100	

A. RELEVANT PREVIOUS EXPERIENCE ON COMPLETED PROJECTS OF A SIMILAR NATURE AND VALUE IN THE LAST TEN (10) YEARS (20 POINTS):

Points allocated for proven track record based on previous projects executed to completion by the bidder in consideration of similar kind and complexity. The similarity refers to the construction and renovations of buildings projects in the past 10 years. Buildings (No points will be allocated for other nature and value of works like Civil Engineering projects, Water projects, Transport Projects, Traffic Engineering Projects and all Electrical & Mechanical Engineering projects)

The scoring on this item will be carried out as follows:

- The bidder shall submit signed appointment letter(s) in the relevant official Client letterhead clearly showing the project value / amount
- The bidder shall submit signed proof of project completion (JBCC or other Completion Certificate or letter from the client (client letter head) confirming completion of such a project).

NOTE: Failure to submit any of the above requirements will result in no points being awarded to the bidder.

Evaluation points will be awarded in terms of the following table below:

	Similar completed projects (as per CIDB level 5GB & above – Tender Value Limit between R 9 000 000 to R 6 000 000)	Similar completed projects (as per CIDB level 4GB – Tender Value Limit between R 4 000 000 and R 6 000 000)	Similar completed projects (as per CIDB level 3GB – Tender Value Limit between R 1 000 000 and R3 000 000)	Non-Submission, Irrelevant Evidence, Incomplete Evidence
Project A	5	3	1	0
Project B	5	3	1	0
Project C	5	3	1	0
Project D	5	3	1	0
Project E	5	3	1	0
Points	25	15	5	0

B. CONSTRUCTION AND RENOVATIONS COMPLETED PROJECTS IN THE LAST TEN (10) YEARS (10 POINTS):

Points allocated for proven track record based on previous projects executed to completion by the bidder

The scoring on this item will be carried out as follows:

- The bidder shall submit signed appointment letter(s) in the relevant official Client letterhead clearly showing the project value / amount
- The bidder shall submit signed proof of project final completion

NOTE: Failure to submit any of the above requirements will result in no points being awarded to the bidder.

Evaluation points will be awarded in terms of the following table below:

Category	Description	Points
Construction and Renovations	2 or more completed projects	10
	1 completed project	5
	Not done / no submitted evidence	0

C. SIGNED AND STAMPED CLIENT REFERENCE LETTERS ON THE SAME PROJECTS LISTED ABOVE IN CRITERIA A, LETTERS MUST MATCH THE ABOVE SUBMITTED PREVIOUS EXPERIENCE (20 POINTS):

Points allocated for client reference (As per returnable schedule T 2.1) based on previous completed projects as above executed by the bidder in consideration:

Points will be allocated based on:

- i. Receipt of signed and stamped client references in the forms supplied in this document
- ii. Favorable stamped client reference letter

NOTE: Failure to submit any of the above requirements will results in no points being awarded to the bidder.

Evaluation points will be awarded in terms of the following table:

Projects	Not Acceptable	Favorable (Good) client reference
Project A	0	4
Project B	0	4
Project C	0	4
Project D	0	4
Project E	0	4
Points	0	20

D. QUALIFICATIONS, SKILLS AND EXPERIENCE OF PROJECT KEY RECOURES (35POINTS):

Points allocated for required

- i. competencies,
- ii. qualifications (i.e degree or diploma)
- iii. submission of CV's
- iv. submission of relevant certified (not older than 6 months) evidence of qualifications and certificates of allocated Required Key Project Resources.
- v. Professional registration within the built environment.

NOTE: Points allocation with submission of all required documentation and will be rounded off to the nearest lowest number

Evaluation points will be awarded in terms of the following table A (28 points):

Category	Qualification within the Built Environment (7 points)			Years of experience within the Built Environment (21 points)			
	Degree or higher	Diploma	National Certificate or similar	10 or above years	5 - 9 years	1 - 4 years	< 1 year
Project / Contract Manager	5	4	3	7	5	3	1
Site Agent	1	1	1	7	5	3	1
Foreman	1	1	1	7	5	3	1
Total Points	7	6	5	21	15	9	3

Evaluation points will be awarded in terms of the following table B (7 points):												
		<table><tr><th>Category</th><th>Description</th><th>Points</th></tr><tr><td rowspan="2">Health and Safety Resource</td><td>Professional Registration with SACPCMP (Mandatory)</td><td>7</td></tr><tr><td>No submission</td><td>0</td></tr></table>			Category	Description	Points	Health and Safety Resource	Professional Registration with SACPCMP (Mandatory)	7	No submission	0
Category	Description	Points										
Health and Safety Resource	Professional Registration with SACPCMP (Mandatory)	7										
	No submission	0										
Where the Health and Safety officer allocated to this project is no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 5 working days replace the Construction Health and Safety Officer with a person with equivalent competencies subject to approval by the employer.												
E. CONTRACTOR LOCALITY (10 POINTS):												
Points are allocated to contractors who provide proof of residence in the North West Province. At least one of the following verifiable documents must be submitted to score points:												
i. Water, Electricity or Levy account in the name of the company,firm or director.												
ii. Lease agreement accompanied by Landlord affidavit of the company,firm or director.												
		<table><tr><th>Description</th><th>Points</th></tr><tr><td>Contractor Office within North West Province jurisdiction</td><td>10</td></tr><tr><td>Location out of North West Region or No submission</td><td>0</td></tr></table>			Description	Points	Contractor Office within North West Province jurisdiction	10	Location out of North West Region or No submission	0		
Description	Points											
Contractor Office within North West Province jurisdiction	10											
Location out of North West Region or No submission	0											
NOTE: 10 points will be scored if at least one of the required documents listed above is submitted for the North West Province. Failure to submit will result in zero points for these criteria.												
Quality Formula	WQ=W2 x So/Ms		Formula used to calculate Functionality points									
	W2 =Total evaluation points for functionality as per Scorecard											
	So = Functionality points allocated to the bidder under consideration											
	Ms =Maximum possible score for functionality in respect of a submission											
Minimum points to be scored for Functionality is 60%												
FINANCIAL OFFER/PRICE	80/90	Formula 2 Option 1,A=(1- {p-pm/pm})	Formula used to calculate Financial Offer/Price points									
		pm =The comparative Price offer of the mean/average qualifying tenderer										
		p =The comparative offer of the tender under consideration										
	80/90											

Notes:

- Bidders are required to score minimum points of 60% for Functionality as stated in the tender data
- Bidders who fail to meet the required minimum number of points for functionality as stated in the tender data shall be disqualified
- Bidders who fail to disclose mandatory required information as per the returnable schedules shall be disqualified

4. Bidders to submit the following for means of verification:

- Project list of similar completed projects
- Performance and quality reports from clients / consultants
- Certified certificates of qualification of key staff and CV's including references
- Traceable References for projects completed
- Traceable references for suppliers

Clause number	BID DATA FOR PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE– BID NUMBER: DRD01NWER003
F.3.13	Acceptance of Bid Offers
F.3.13.1	<p>Bid offers will only be accepted if:</p> <ul style="list-style-type: none"> a) the bidder has submitted an original valid Tax Clearance Certificate issued by the South African Revenue Services; b) the bidder is registered with the Construction Industry Development Board in an appropriate contractor grading designation; c) the bidder or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; d) the bidder has not: <ul style="list-style-type: none"> i) abused the Employer's Supply Chain Management System; or ii) failed to perform on any previous contract and has been given a written notice to this effect; e) the bidder has completed the Declaration of Interest and there are no conflicts of interest which may impact on the bidder's ability to perform the contract in the best interests of the employer or potentially compromise the bid process and persons in the employ of the state are not permitted to submit tenders; f) if there are no conflicts of interest which may impact on the bidder's ability to perform the contract in the best interests of the employer or potentially compromise the bid process g) the bidder has submitted the CIPRO documentation and certified copies of ID's for all directors; h) the bidder completed, signed and witnessed form of offer; i) the bidder is in good standing with Compensation for Occupational Injuries and Disease Act (COIDA); j) the bidder has submitted a fully priced Bill of Quantities; k) The bidder attended a compulsory briefing session and completed attendance register or certificate of attendance is signed by the representative of the Employer. l) The bidder is required to submit with his bid a Certificate of Contractor Registration issued by the Construction Industry Development Board and proof of Registration on the Central Supplier Database (CSD) with a Compliant Tax Status; copy of the tax clearance with Tax Compliance Pin issued by the South African Revenue Services. m) The bidder has a B-BBEE Level of 1-3 n) The bidder and all its directors are South African Citizens (For National Key Point Projects).

F.3.14	<p>Notice to Unsuccessful Bidders</p> <p>Should bidders not hear from the IDT within ninety (90) calendar days of closure, they should consider their submission unsuccessful. Award will be posted on e-tender and CIDB website within 21 days of award. No written notification directed to each bidder will be issued by the Employer to unsuccessful bidders.</p>
F.3.18	<p>Provide Copies of the Contract</p> <p>The number of paper copies of the signed contract to be provided by the employer is one.</p>
	<p>The additional conditions of bid are:</p> <p>1 The employer is not obliged to accept the lowest or any bid.</p>

ANNEXURE F: STANDARD CONDITIONS OF BID

(As contained in ADDENDUM F of the CIDB Standard for Uniformity in Construction Procurement)

Standard Conditions of Tender

F.1 General

F.1.1 Actions

F.1.1.1 The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in F.2 and F.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

F.1.1.2 The employer and the tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict, and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

Note: 1) A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.

2) Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.

F.1.1.3 The employer shall not seek and a tenderer shall not submit a tender without having a firm intention and the capacity to proceed with the contract.

F.1.2 Tender Documents

The documents issued by the employer for the purpose of a tender offer are listed in the tender data.

F.1.3 Interpretation

F.1.3.1 The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

F.1.3.2 These conditions of tender, the tender data and tender schedules which are only required for tender evaluation purposes, shall not form part of any contract arising from the invitation to tender.

F.1.3.3 For the purposes of these conditions for the calling for expressions of interest, the following definitions apply:

- a) **Conflict of interest** means any situation in which:
 - i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfil his or her duties impartially;
 - ii) an individual or organisation is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
 - iii) Incompatibility or contradictory interests exist between an employee and the organisation which employs that employee.
- b) **Comparative offer** means the tenderer's financial offer after all tendered parameters that will affect the value of the financial offer have been taken into consideration in order to enable comparisons to be made between offers on a comparative basis
- c) **Corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process; and
- d) **Fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels

F.1.4 Communication and employer's agent

Each communication between the employer and a tenderer shall be to or from the employer's agent only (*i.e post contract award and signing*), and in a form that can be read, copied and recorded. Writing shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the employer's agent are stated in the tender data.

F.1.5 Cancellation and Re-Invitation of Tenders

- F.1.5.1** An employer may, prior to the award of the tender, cancel a tender if-
- a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation;
 - b) funds are no longer available to cover the total envisaged expenditure; or
 - c) no acceptable tenders are received.
 - d) there is a material irregularity in the tender process.
- F.1.5.2** The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised.
- F.1.5.3** An employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

F.1.6 Procurement procedures

F.1.6.1 General

Unless otherwise stated in the tender data, a contract will, subject to F.3.13, be concluded with the tenderer who in terms of F.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

F.1.6.2 Competitive negotiation procedure

- F.1.6.2.1** Where the tender data require that the competitive negotiation procedure is to be followed, tenderers shall submit tender offers in response to the proposed contract in the first round of submissions. Notwithstanding the requirements of F.3.4, the employer shall announce only the names of the tenderers who make a submission. The requirements of F.3.8 relating to the material deviations or qualifications which affect the competitive position of tenderers shall not apply.
- F.1.6.2.2** All responsive tenderers, or not less than three responsive tenderers that are highest ranked in terms of the evaluation method and evaluation criteria stated in the tender data, shall be invited in each round to enter into competitive negotiations, based on the principle of equal treatment and keeping confidential the proposed solutions and associated information. Notwithstanding the provisions of F.2.17, the employer may request that tenders be clarified, specified and fine-tuned in order to improve a tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.
- F.1.6.2.3** At the conclusion of each round of negotiations, tenderers shall be invited by the employer to make a fresh tender offer, based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.
- F.1.6.2.4** The contract shall be awarded in accordance with the provisions of F.3.11 and F.3.13 after tenderers have been requested to submit their best and final offer.

F.1.6.3 Proposal procedure using the two stage-system (Not Applicable for this Bid)

F.1.6.3.1 Option 1

Tenderers shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The employer shall evaluate each responsive submission in terms of the method of evaluation stated in the tender data, and in the second stage negotiate a contract with the tenderer scoring the highest number of evaluation points and award the contract in terms of these conditions of tender.

F.1.6.3.2 Option 2

F.1.6.3.2.1 Tenderers shall submit in the first stage only technical proposals. The employer shall invite all responsive tenderers to submit tender offers in the second stage, following the issuing of procurement documents.

F.1.6.3.2.2 The employer shall evaluate tenders received during the second stage in terms of the method of evaluation stated in the tender data, and award the contract in terms of these conditions of tender.

F.2 Tenderer's obligations

F.2.1 Eligibility

F.2.1.1 Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer and/or the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;

F.2.1.2 Notify the employer of any proposed material change in the capabilities or formation of the bidding entity (or both) or any other criteria which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.

F.2.2 Cost of tendering

F.2.2.1

Accept that, unless otherwise stated in the tender data, the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

F.2.2.2

The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.

F.2.3 Check documents

Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.

F.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.

F.2.5 Reference documents

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

F.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.

F.2.7 Clarification meeting

Attend, where required, a clarification meeting at which tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the tender data.

F.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the employer at least five working days before the closing time stated in the tender data. The tenderer is encouraged to go through all contents of the tender document as seek clarification where applicable. Any assumptions made by the bidder without prior confirmation by the Employer and his agent shall be at the tenderers own risk.

F.2.9 Insurance

Be aware that the extent of insurance to be provided by the employer (if any) may not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.

F.2.10 Pricing the tender offer

F.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the tender data.

F.2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

F.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.

F.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

F.2.11 Alterations to documents

Not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.

F.2.12 Alternative tender offers

F.2.12.1 Unless otherwise stated in the tender data, submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.

F.2.12.2 Accept that an alternative tender offer may be based only on the criteria stated in the tender data or criteria otherwise acceptable to the employer.

F.2.12.3 An alternative tender offer must only be considered if the main tender offer is the winning

F.2.13 Submitting a bid offer

F.2.13.1 Submit one bid offer only, either as a single bidding entity or as a member in a joint venture to provide the whole of the works, services or supply identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

F.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing in black ink.

F.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

F.2.13.4 Sign the original and all copies of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

F.2.13.5 Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and

identification details stated in the tender data, as well as the tenderer's name and contact address.

F.2.13.6 Where a two-envelope system is required in terms of the tender data, place and seal the returnable documents listed in the tender data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

F.2.13.7 Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the tender data.

F.2.13.8 Accept that the employer shall not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

F.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.

F.2.14 Information and data to be completed in all respects

Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive and as such be disqualified.

Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.

F.2.15 Closing time

F.2.15.1 Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.

F.2.15.2 Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline

F.2.16 Tender offer validity

F.2.16.1 Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.

F.2.16.2 If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.

F.2.16.3 Accept that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted.

F.2.16.4 Where a tender submission is to be substituted, submit a substitute tender in accordance with the requirements of F.2.13 with the packages clearly marked as "SUBSTITUTE".

F.2.17 Clarification of tender offer after submission

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

Note: Sub-clause F.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.

F.2.18 Provide other material

F.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender

offer as non-responsive.

F.2.18.2 Dispose of samples of materials provided for evaluation by the employer, where required.

F.2.18.3

F.2.19 Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.

F.2.20 Submit securities, bonds, policies, etc.

If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

F.2.21 Check final draft

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

F.2.22 Return of other tender documents

If so instructed by the employer, return all retained tender documents within 28 days after the expiry of the validity period stated in the tender data.

F.2.23 Certificates

Include in the tender submission or provide the employer with any certificates as stated in the tender data.

F.3 The employer's undertakings

F.3.1 Respond to requests from the tenderer

F.3.1.1 Unless otherwise stated in the tender Data, respond to a request for clarification received up to five working days before the tender closing time stated in the Tender Data and notify all tenderers who drew procurement documents.

F.3.1.2 Consider any request to make a material change in the capabilities or formation of the bidding entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous procurement process and deny any such request if as a consequence:

- a) an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements;
- b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
- c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

F.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who drew documents.

F.3.3 Return late tender offers

Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.

F.3.4 Opening of tender submissions

F.3.4.1 Unless the two-envelope system is to be followed, open valid tender submissions by the IDT's SCM Unit. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened publicly.

F.3.4.2 Announce at the meeting held immediately after the opening of tender submissions the name of each tenderer whose tender offer is opened and, where applicable, the total of his prices for the main tender offer only.

F.3.4.3 Make available the record outlined in F.3.4.2 on the IDT's website.

F.3.5 Two-envelope system (Not Applicable for this bid)

F.3.5.1 Where stated in the tender data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data and announce the name of each tenderer whose technical proposal is opened.

F.3.5.2 Evaluate the quality of the technical proposals offered by tenderers, then advise tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the quality evaluation more than the minimum number of points for quality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any preferences claimed. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for quality.

F.3.6 Non-disclosure

Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

F.3.7 Grounds for rejection and disqualification

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

F.3.8 Test for responsiveness

F.3.8.1 Determine, after opening and before detailed evaluation, whether each tender offer properly received:

- a) complies with the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

F.3.8.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

- a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- b) significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

F.3.9 Arithmetical errors, omissions and discrepancies

F.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.

F.3.9.2 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with F.3.11 for:

- a) the gross misplacement of the decimal point in any unit rate;
- b) omissions made in completing the pricing schedule or bills of quantities; or

- c) arithmetic errors in:
 - i) line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or
 - ii) the summation of the prices.

F.3.9.3 Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.

F.3.9.4

Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:

- a) If bills of quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.
- b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

F.3.10 Clarification of a tender offer

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

F.3.11 Evaluation of tender offers

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the Tender Data associated with a specific project.

Conditions of tender are by definition the document that establishes a tenderer's obligations in submitting a tender and the employer's undertakings in soliciting and evaluating tender offers. Such conditions establish the rules from the time a tender is advertised to the time that a contract is awarded and require employers to conduct the process of offer and acceptance in terms of a set of standard procedure

The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:

Requirement
Fair

Qualitative interpretation of goal

The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information.

Equitable

Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.

Transparent

The only grounds for not awarding a contract to a tenderer who satisfies all requirements are restrictions from doing business with the employer, lack of capability or capacity, legal impediments and conflicts of interest.

Competitive

The system provides for appropriate levels of competition to ensure cost effective and best value outcomes.

The activities associated with evaluating tender offers are as follows:

- a) Open and record tender offers received
- b) Determine whether or not tender offers are complete
- c) Determine whether or not tender offers are responsive
- d) Evaluate tender offers
- e) Determine if there are any grounds for disqualification
- f) Determine acceptability of preferred tenderer
- g) Prepare a tender evaluation report
- h) Confirm the recommendation contained in the tender evaluation report

F3.11.1 General

The employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive tender offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender data

F.3.12 Insurance provided by the employer

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and / or certificates of insurance which the conditions of contract identified in the contract data, require the employer to provide.

F.3.13 Acceptance of tender offer

Accept the tender offer, if in the opinion of the employer, it does not present any unacceptable commercial risk and only if the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement,
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract,
- c) has the legal capacity to enter into the contract,
- d) is not insolvent, in receivership, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing,
- e) complies with the legal requirements, if any, stated in the tender data, and
- f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

F.3.14 Prepare contract documents

F.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents, and
- c) other revisions agreed between the employer and the successful tenderer.

F.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

F.3.15 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

F.3.16 Registration of the award

An employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the employer, register and publish the award on the cidb Register of Projects..

F.3.17 Provide copies of the contracts

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

F.3.18 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these conditions of tender, but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

SPECIAL CONDITIONS OF TENDER

F.4 Special Conditions of Tender

F.4.1 General

The Special Conditions of Principal Contract Tender generally contain clauses that are either deemed to be additions, elaborations or variations to the Standard Conditions of Principal Contract Tender. Accordingly, the Special Conditions of Principal Contract Tender be read in conjunction with the Standard Conditions of Principal Contract Tender and it shall be deemed that the amended meanings and intentions of the clauses shall apply, if applicable.

F.4.2 Tender Offers

Tenderers are advised that it is compulsory to submit offers for all Tender Options as set - out below and where indicated by a tick.

Subject To Escalation Price Offer

N/A

Tenderers are advised that this offer shall NOT be subject to Contract Price Adjustment Formulae based on the Haylett Formulae.

Fixed Price Offer

√

Tenderers are advised that all rates, amounts, overhead and profit percentage mark-ups and amounts, profit and attendance amounts, prices, etc. submitted, shall **not be subject to any form of Contract Price Adjustment Formulae e.g. Haylett Formulae.** In this regard, it is deemed that the Tenderer has allowed for any potential increases (except any variation in the rate of Value Added Tax) in cost of labour, materials, transport, etc. in the Tender amounts, rates, etc. submitted.

This will only be applicable to the measured work priced by the main contractor and will not apply to the provisional sums or budgetary allowances.

Key: √ - Tender Option Applicable
X - Not Required For This Tender

F.4.3 Market Related Wage Rates

When pricing this document, respondents are to allow for wages, which are not less than the greater of:

The statutory wage rates in any labour category; and,
The SAFCEC recommended minimum rates applicable at any time during the duration of the contract.

In this regard, a Tenderer may be called upon to demonstrate the wage rates utilised in calculating its Tender price.

F.4.4 Letter of Intent

Tenderers are required to furnish with their tender documents, a letter of intent from a Bank or approved Insurance Company, to indicate that in the event of their tender being successful that a surety / guarantee as required will be provided when asked to do so.

F.4.5 Information to be Submitted by Tenderers

All Tenderers are instructed to acknowledge that the information to be submitted must be strictly in accordance with the requirements stipulated in 2.3. Therefore, separate brochures, information other than which is specified in 2.3 must not be incorporated in the submission documents. Failure to comply with this instruction may render the submission liable for disqualification.

If the spaces in the Tender Returnables are insufficient, the relevant particulars should be documented on a separate sheet (s) with proper reference to the specific information requested.

F.4.6 Interviews

All Tenderers are advised that they may be required to attend interviews and / or submit further information; including making their premises, plant, equipment and details of works in progress, available for inspection after the receipt of Tender submissions.

F.4.7 Detailed Construction Programme

The Principal Contract for the project Commencement and Completion dates and any other relevant dates for this contract are stated in the Preliminaries.

Time and quality are to be considered the essence of this Contract. Accordingly, it shall be deemed that the Project Programme detailing each activity and duration as well as a detailed Method Statement be submitted by the Tenderer as part of the Tender submission and shall be the basis of monitoring progress on the project.

The programme should be a detailed double-linked critical path programme preferably in CCS format in both hard copy and electronic format and take into consideration the following;

Dividing the programme into convenient construction zones both horizontally and vertically;
Linking all activities as 'open ended' or 'open start' activities are not acceptable;
Detailing all holidays, Christmas/New Year break, etc.;
Showing both the Date of Practical Completion and the Date of Works Completion given that the Employer will take Occupation of the facility once the Works Completion Certificate has been issued. Penalties will apply for Milestone, Practical and Works Completion dates not being achieved as detailed in the Preliminaries.

The programme must be a fully resourced "double linked" critical path programme clearly showing Start, Finish and any Interim completion dates as well as any Milestone dates for critical activities including;

- Dates for Practical Completion Inspections to be carried out;
- Date of Practical Completion
- Period required for attendance on and completion of the Completion List issued at Practical Completion
- Date of Works Completion ;

The successful tenderer's program is subject to review and mutual acceptance.

Any Queries / clarifications relative to the Programme can be directed to the Employer.

F.4.8 Detailed Cash-flow

Tenderers are advised that a fully detailed cash-flow based on the tenderers programme is required to be submitted together with their tender document. In this regard, tenderers are advised that the financial year start and end dates are 01 April to 31 March respectively and therefore tenderers are requested to keep sub-totals for each financial year during the duration of the construction programme.

Tenders are advised that the targeted annual maximum percentages per financial year end for the contract duration are as follows and are not to be exceeded:

FINANCIAL YEAR
01 APRIL 2023 TO 31 MARCH 2024
01 APRIL 2024 TO 31 MARCH 2025

F.4.9 Detailed Resourcing Schedule

Tenderers are advised that a detailed resourcing schedule including skilled, unskilled and sub-contractor's staffing histograms is required to be submitted together with their tender document.

F.4.10 Proposed Domestic Sub-Contracts

The Tenderer shall submit in writing, when requested, a list of proposed domestic sub-contractors that is intended to be utilised on the project, should its offer be accepted.
Proposed domestic sub-contractors shall take part in the work set aside for 30% Local Participation if possible i

F.4.11 Adjudication and Independent Development Trust's Rights

F.4.11.1 Independent Development Trust reserves the right to visit any Tenderer (without prior notice), to interview any shareholder of the Tenderer and to evaluate such Tenderer in accordance with the criteria as set out in the paragraph 1.11.3 below;

F.4.11.2 All information obtained at such evaluation shall at all times be treated as confidential by Independent Development Trust;

F.4.11.3 Adjudication of a Tender shall be in the discretion of Independent Development Trust and may take into account the following:

- (i) Tender Price;
- (ii) Ability to perform, which may take into account previous experience in the relevant industry;
- (iii) Suitability of employees and suitability of equipment and materials to be used;
- (iv) Black dep Empowerment;
- (v) Financial viability of the Tenderer;
- (vi) Ownership of the Tenderer;
- (vii) Compliance with all relevant laws; and
- (viii) SCM policy and procedures.

F.4.12 Form of Contract

The JBCC Series 2000 Principal Building Agreement (Edition 6.2 Reprint May 2018) as amended in the IDT's SPECIAL CONDITIONS OF PRINCIPAL CONTRACT, shall be applicable to this contract.

F.4.13 Specialist Selected Sub-contract Procurement Process

Due to the nature of the project, the procurement process of the following envisaged selected sub-contracts will be done upon appointment of the Principal Building Contractor:

- Clearing of site
- Excavation of footings and pipe trenches
- Painting
- Brickwork

Upon the appointment of a Principal Contractor, the Principal Contractor is to subsequently appoint the **selected** sub-contractors as instructed by the Principal Agent and The Employer.

This is a material condition of appointment and should the Tenderer have any objection to this condition the tenderer is to raise this in their tender submission. The appointment of the selected sub-contractor will be done in consultation with the appointed contractor.

F.4.14 Damage to the Work

Care shall be taken not to cause any damage to any part of the existing or new work or any adjoining property, if applicable. The Contractor will be held responsible for damage caused to the works by his negligence and shall be liable for all costs incurred in making good any such damage to the satisfaction of the Principal Agent.

F.4.15 Communication, Media Releases, Etc.

The Contractor shall not in any way communicate with the press, or any representative of the written or electronic media, on a question affecting this contract unless prior approval in writing is received from the **Principal Agent** as authorised by the **Employer**.

All rights of publication of articles in the media, together with any advertising relating to, or in any way concerned with this project shall vest in the Employer.

The Contractor shall not, without the written consent of the Employer, cause any statement or advertisement to be printed, screened or aired by the media.

F.4.16 Copyright

No part of this document and any document forming part of the contract documents may be copied, photographed or repeated in any manner or by any process without the written consent of the **Principal Agent**. Copyright is reserved on all designs, specifications, patents and patentable designs, systems and processes contained in documents pertaining to this contract. The person, firm, body, supplier, contractor, sub-contractor and any other contracting party is to be responsible jointly and severally, in their personal and corporate capacities for any contravention of this requirement.

F.4.17 Workmanship and Quality Control

The onus to produce work that conforms in quality and accuracy of detail, to the requirements of the specifications, rests with the Contractor, and the Contractor shall, at his own expense, institute a quality control system and provide other technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the works at all times.

The cost of supervision and process control, including testing carried out by the Contractor shall be deemed to be included in the amount quoted for the works.

The Contractor's attention is drawn to the normal standards regarding the minimum frequency of testing required for materials. The Contractor shall, at his own discretion increase this frequency where necessary to ensure adequate control.

The Contractor shall remain solely responsible for the work as defined in this contract document, up to the end of the Defects Liability Period.

The Contractor needs to ensure that daily site diaries are kept on site at all times. These may be required for submission to the Employer as and when needed.

The end-user client and the NDPW may from time to time inspect the quality / workmanship on site and make the necessary comments and/or requirements for correction.

F.4.18 Occupational Health and Safety Act

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

F.4.19 Co-Operation of Contractor for Cost Control

It is deemed that the Contractor accepts the obligation of assisting the Professional Consultants in implementing proper cost control in ensuring that the final building cost does not exceed the budget.

F.4.20 Application for Payment

The Contractor shall submit the following information on a monthly basis to the Quantity Surveyor in order to assist with the processing of the Payment Certificate and the preparation of the empowerment report:

- A detailed breakdown of the work done. (The work breakdown must be referenced strictly in

accordance with the Contract Document or the detailed priced bills of quantities, as applicable.)

- A detailed breakdown of all Variation Order costs claimed (With specific reference to work done by the Nominated/Selected Subcontractor) in the certificate concerned, together with copies of the relevant Contract instructions.
- An empowerment report which shall contain an affidavit certifying that all information contained in the report as being true and correct and must be authenticated by the sub-contractor and a commissioner of oaths
- EPWP Labour Report showing total work opportunities created on site
- Tax Invoice: The contractor shall attach a tax invoice as prescribed in the Value Added Tax legislation to each payment certificate when presenting the certificate to the Employer for payment. Such tax invoices shall correctly reflect the prescribed information and the amounts shall match precisely the amounts included in the Payment Certificate. Should the contractor fail to comply with these requirements, the date of presentation of the certificate shall be deemed to be delayed at the contractor's default until such time as the requirements are met.

Should anyone or any combination of the above requirements not be complied with, the Principal Agent and/or Contractor reserves the right to exclude any amounts that may have been due for certification from the Payment Certificate concerned and/or delay the issue of Payment Certificates and/or, revise the contractual payment date, as applicable, until such time compliance is achieved.

F.4.21 Identification of Personnel

All permanent staff that are utilised on the project by the Contractor, Domestic and Selected Sub-contractors are at all times whilst on site, be clad with clothing that clearly identifies each staff member together with an identification document which includes, but not limited to the following:

A photograph of the staff member concerned;

The identification numbers of the staff member concerned; and,

The name of company concerned

In addition, to that stated above, the Contractor shall adhere to the premise's security rules and regulations.

No staff member will be permitted to execute the Works if this condition is not adhered to.

F.4.22 Intervention at Manufacture and / or Supplier and / or Contract Level

The Employer and its Agents reserve the right to discuss and liaise on any issue pertaining to this Contract with the Contractor's service providers i.e. manufacturers and / or suppliers and / or sub-contractors concerned. This right shall not create privity of contract between the Employer and / or its Agents and the said manufacturer and / or supplier and / or sub-contractors.

F.4.23 Cession of Materials Supplied to the Site

It shall be deemed that the Contractor and its service providers upon delivery of each batch of materials to site, has ceded the said materials to the Employer.

F.4.24 Alterations in the Quantity and Value of Work

The Employer and / or its Agents shall be permitted to either increase or decrease the quantity and value of work contracted for. In this regard, the Contractor including its service providers shall not be entitled to claim for any additional expense incurred, or for any change in the rates for work done and / or any materials and services supplied. It shall be deemed that all costs associated with this item are included in the Tender Price.

F.4.25 Change in the Scope of Work

The Contractor acknowledges that whilst drawings have been prepared for the Works, the scope of work and value of the Contract may be substantially altered and that no claims for loss and expense shall be due by the Employer for implementing any changes that may become necessary. It shall be deemed that the Tender Price includes for all costs that may arise due to compliance with this clause.

F.4.26 Treasures, Relics, Etc.

Any relics, treasure, articles of value or of potential historical or archaeological interest found on the site must be brought to the attention of the Principal Agent. All work at the specific area of the discovery shall stop for a reasonable time period until such time that the Principal Agent instructs continuation of the Works.

Any relics, treasure, articles of value or of potential historical or archaeological interest found on the site shall remain the property of the Employer and shall be handed over to the Principal Agent who shall be the sole arbitrator of what is an article of value.

F.4.27 Priced Bills of Quantities

The Tenderer shall submit a fully priced Bills of Quantities as well as a detailed breakdown and build-up of all items measured as lump sum items with the Tender Price. Lump sum items shall be measured in accordance with the Standard System of Measuring Building Work (Sixth Edition, including any subsequent amendments thereto), and shall form part of the Contract and shall be used for the purposes of preparing valuations, Payment Certificates, determining the value of Variation Orders, preparation of Final Accounts, etc.

Neither the Employer, nor its Agents shall be liable for any cost incurred for the award and subsequent withdrawal of the award of the Tender in terms of this clause.

F.4.28 Prices and Net Measurements

Prices throughout these Bills of Quantities shall be deemed to include for all obligations arising out of the Contract and unless otherwise specified, be held to include for making, conveying and delivering, unloading, storing, unpacking, hoisting, setting, fitting and fixing in position, cutting and waste, patterns, models and templates, plant, temporary works and return of packaging.

Prices for all items contained in these Bills of Quantities and any additional authorised variations, shall be deemed to exclude all amounts due in terms of the Value Added Taxation legislation. A provision for the addition of VAT shall be made on the Final Summary page of the Bills of Quantities and Final Statement of Accounts, as applicable.

F.4.29 Value Added Tax (V.A.T)

All prices and or rates tendered shall be deemed to be **exclusive** of Value Added Tax.

Value Added Tax shall be added as a lump sum where provided on the Final Summary page of the Bills of Quantities, and the Tender Price **inclusive** of Value Added Tax will be shown on the Form of Tender.

Value Added Tax shall be calculated at the National going rate at the time of submission of bids.

F.4.30 Site and Information

Tenderers must acquaint themselves with the conditions of the Site and generally obtain their own information on all matters affecting the submission of Tenders for the Works. Tenderers will be held responsible for any misunderstanding or incorrect information obtained, except information which may have been given in writing over the signature of the Principal Agent.

The contractor is expected to establish a construction camp, office and workshop facility, for the fulfilment of the contract. Site establishment facilities to be removed after the completion of the project.

The contractor must strictly use the working area provided by the Employer.

F.4.31 Noise

Tenderers must take note that the site is within the Taung Skull Heritage Site. As such high noise level shall be restricted to times that will not disrupt the community. Tenderers are to ensure that they acquaint themselves with these conditions and adequately price for it accordingly as no additional time will be allowed for any delays that may be attributed to such.

The Contractor will be restricted from working evening shifts but may be allowed to work weekend shifts with prior 1 week's notice. Such shall be included in the contractor's pricing as no additional allowance for weekend shifts will be allowed for by the Employer, post tender award.

F.4.32 Water and Electricity

The contractor is expected to make means for the provision of water and electricity for construction purposes. The use of such services from the site shall be at the discretion and on agreement with the end user department.

F.4.33 Preliminaries Costs

The Tenderer must allow in his pricing, or where provided for in the Tender Document, for all preliminaries costs deemed necessary for the proper execution and completion of the Works, as no late claims whatsoever for additional costs in this respect will be considered.

F.4.34 Protection of Existing Work

The Tenderer shall allow for the protection of all existing work that is liable to be damaged during the execution of this Contract and work that is liable to be damaged once the Contractor completes its Section of the Works.

F.4.35 Mock-Up / Samples, etc.

Samples, mock-ups, etc. will be called for by the Principal Agent for approval and shall be provided at no extra cost as rates will be deemed to include for this.

F.4.36 Substitution of Materials

No substitution of the articles or materials specified in this Tender Document will be permitted unless the authority of the Principal Agent has been obtained, in writing, before Tender closing. The Tenderer will otherwise be required to provide / or use the specified articles or materials. Approval of any request for the substitution of any article or materials will only be considered when the Principal Agent is satisfied that if the substitution is approved, there is sufficient time remaining before Tender closing to advise all other Tenderers accordingly.

F.4.37 Restriction on Site Access

Tenderers are to price any items related to this under Clause 3.1 in the Preliminaries bill. The Principal Agent and /or the Compulsory Tender Briefing will provide further details of the restrictions, if any that will affect the Contractor.

F.4.38 Security

The Tenderers are to note that upon award of the contract, they are to furnish the Employer (within 21 days of award), the following:

Construction Guarantee equal in value to **10%** of the Contract Sum valid for the duration of the contract.

F.4.39 Safety Requirements

The Contractor is referred to the safety requirements associated with the project. It is of utmost importance that the successful contracting entity abides by the.

The Contractor will comply with all Health and Safety Regulations and the Health and Safety Plan.

Management of safety on site shall remain the sole responsibility of the Contractor.

Disposal of all rubble material and asbestos roof sheetings / materials, to suitable legal dump sites, shall be carried out on a weekly basis. All costs for this exercise shall be included in the bid price (for the duration of the project plus a further 6 months in the event of project overrunning its duration)

The safety on site, agreement and general information forms included in the Tender Returnables must be agreed and fully completed and submitted with the Tender Submission.

F.4.40 Budgetary Allowances / Provisional Sums

Where applicable, these amounts have been included in the Tender Price where the work has not been defined at the date of Tender. It is intended that once the scope is defined, Tenders will be invited with a view to these Works being awarded as Nominated / Selected Subcontract works.

- The Specialist Consultant responsible for the specific work package will prepare documentation which is to include drawings, specification and schedule of quantities that define the scope of works all in accordance with the Nominated / Selected Subcontract Agreement.
- The Quantity Surveyor will prepare the necessary Tender documents.
- The Principal Agent will arrange for inviting / advertising of tenders subject to the payment of a non-refundable document fee, if applicable.
- The Employer will arrange to issue the tender documents from their offices and take receipt of amounts paid.
- The Tenders for the Works will be submitted to the Employer's office in terms of the tender closing times stipulated. Tenders will be opened and tender amounts read out at the time.
- The Quantity Surveyor will make copies of the returned Tender documents for distribution to the Principal Agent.
- The Quantity Surveyor will prepare an initial financial evaluation report of the Tenders, Principal Agent and Engineer will evaluate the Tenderer's technical compliance and capability and circulate to the Employer.
- The Principal Agent will prepare a draft report, discuss with the Contractor to get their approval and finally circulate the draft to the other Consultants for final comment. Thereafter the Tender Report with Recommendations will be finalised by the Principal Agent and circulated to the Employer for approval. On approval, the recommendation together with any instructions of award will be issued to the Contractor who will be responsible for appointing the relevant party as a Sub-contractor.

F.4.41 Community Liaison Officer (CLO)

The Tenderer shall allow for a CLO who is to be appointed and remunerated by the Contractor following identification and selection by the Ward Councillor.

<u>Purpose of the Job:</u>	The primary role of the CLO shall be liaison and facilitation of communication between the Contractor, the Local community and the Ward Councillor.
<u>Job title:</u>	Community Liaison Officer (CLO)
<u>Reporting to:</u>	The Contracts Manager or other delegated representative of the Contractor. The CLO must report to the Contractor and remain on site on a daily.
<u>Experience:</u>	Relevant experience and knowledge of building construction, community facilitation and relevant labour legislation.
<u>Remuneration:</u>	Rate payable for the CLO will be 100% of the Civil Engineering Industry minimum wage for unskilled labour.
<u>Minimum Skills:</u>	<ol style="list-style-type: none"> 1. Ability to work with others; 2. Ability to communicate in local language of the project location and English; 3. Ability to communicate in writing; 4. Sound Interpretation skill.

The Ward Councillor in whose wards work is to be done will collectively identify 3 (three) CLO candidates for the project and make such persons known to the Contractor within five days of being requested to do so. The Contractor will be required to enter a written contract with the CLO that specifies:

- (a) The hours of work and the wage rate of the CLO which could include:
- (b) The duration of the appointment
- (c) The duties to be undertaken by the CLO which could include:
 - Assisting in all respects relating to the recruitment of local labour and advising them of their rights
 - Acting as a source of information for the community and councilors on issues related to the contract
 - Keeping the contractor advised on community issues and issues pertaining to local security
 - Assisting in setting up any meeting or negotiations with affected parties
 - Keeping a written record of any labour or community issues that may arise

- The CLO needs to be seen to be neutral by all parties and therefore should endeavour not to take sides should conflict arise.
- Should the CLO function not involve a full days work, the CLO will be expected to undertake other work allocated by the Contractor for the balance of each day

Procedures for local labour recruitment:

- The Contractor submits a list of his/her requirements to the CLO, stating the numbers required in each labour category (general worker, bricklayer, etc.) and a programme that shows when these resources will be required.
- During the construction period, the CLO uses the list to identify candidates for employment, who are interviewed and if successful employed by the contractor.
- The Contractor keeps the CLO informed by providing him/her with employee's details at the start of their employment (name, residential address, ID number, wage, employment, start and finish date, task, etc.) and notify the CLO when their employment ends.

T2.1 LIST OF RETURNABLE DOCUMENTS

T2.1 List of Returnable Documents

List of returnable documents are for ensuring that everything the employer requires a tenderer to submit with his tender is included in, or returned with, his tender submission. Tick below if returnable document is attached or completed properly.

#	LIST OF RETURNABLE DOCUMENTS	TICK IF ATTACHED
T2.1.1	Invitation to bid	
T2.1.2	Preference Points Claim Form in Terms of The Preferential Procurement Regulations 2022	
T2.1.3	B-BBEE Certificate (Original or Originally Certified Copy)	
T2.1.4	Tax clearance certificate	
T2.1.5	Joint Venture Agreement Between Parties	
T2.1.6	Contractors copy of registration	
T2.1.7	CIDB Registration Number	
T2.1.8	Copy of a Letter of Good standing with Compensation For Occupational And Injuries Diseases Act (COIDA) Registration Number	
T2.1.9	Compulsory enterprise questionnaire	
T2.1.10	Declaration of Interest	
T2.1.11	Attendance At Compulsory Briefing	
T2.1.12	Certificate of Authority For Signatory	
T2.1.13	Record of Addenda to The Tender Documents	
T2.1.14	Tenderers financial standing	
T2.1.15	Amendments, Qualifications and Alternatives	
T2.1.16	Socio economic upliftment strategy	
T2.1.17	Proposed sub-contractors	
T2.1.18	Contractors health and safety declaration	

T2.2 RETURNABLE SCHEDULES (ALL COMPULSORY)

T2.2 RETURNABLE SCHEDULES

Contains documents that the tenderer is required to complete for the purpose of evaluating tenders and other schedules which upon acceptance become part of the subsequent contract.

#	QUALITY EVALUATION SCHEDULES
T2.2.1	Safety health environmental and quality management system (SHEQ) plan
T2.2.2	Project Experience
T2.2.3	Letters of Appointment, and Relevant Completion Certificates (Practical Completion, Work Completion & Final Completion)
T2.2.4	Client references
T2.2.5	Key Personnel
T2.2.6	Programme schedule
T2.2.7	Plant and equipment

RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO THE CONTRACT (to be attached with submission)

Record of Addenda to Tender Documents
Declaration Concerning Fulfillment of the Construction Regulations, 2003
First Programme and Method Statement
Preliminary Health and Safety Plan for completion
Form of offer and acceptance
Contract data
Forms of securities

T2.1.1 INVITATION TO BID

SBD 1

PART A

INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	DRD01NWER003	CLOSING DATE:	27 March 2023	CLOSING TIME:	12h00
DESCRIPTION	PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
IDT North West Regional Office					
4071 Joules Street, Industrial Site					
Mahikeng					
2735					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON		CONTACT PERSON			
TELEPHONE NUMBER		TELEPHONE NUMBER			
FACSIMILE NUMBER		FACSIMILE NUMBER			
E-MAIL ADDRESS	NWTenders@idt.org.za	E-MAIL ADDRESS		NWTenders@idt.org.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
a) ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		b) ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?		<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	<input type="checkbox"/> YES <input type="checkbox"/> NO
IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.	

PART B

TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE JOINT BUILDING CONTRACT COMMITTEE (JBCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:

T2.1.2 PREFERENCE POINTS CLAIM FORM

SBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS	
PRICE	90	80
SPECIFIC GOALS	10	20
TARGETED GROUP		
Women 100% Ownership	3	6
Youth 100% Ownership	3	6
People with Disabilities 100% Ownership	2	4
Black Male 100% Ownership	2	4
Total points for Price and SPECIFIC GOALS	100	100

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \mathbf{Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)} & \mathbf{or} & \mathbf{Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)} \end{array}$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \mathbf{Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} & \mathbf{or} & \mathbf{Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
 Pt = Price of tender under consideration
 Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Women 100% Ownership	3	6		
Youth 100% Ownership	3	6		
People with Disabilities 100% Ownership	2	4		

Black Male 100% Ownership	2	4		
---------------------------	---	---	--	--

Source Documents to be submitted with the Bid or RFQ

- *CIPC Document (Company Registration Document will be required for verification (CIPC DOC))
- *Woman (Originally Certified ID Document)
- *Youth (Originally Certified ID Document)
- *People with Disability (Letter from the Dr. Confirming the Disability)
- *Black Ownership (Originally Certified ID Document)

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

.....	
SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME:
DATE:
ADDRESS:

T2.1.3 B-BBEE CERTIFICATE

Attached hereto is my / our original (original certified copy) B-BBEE Certificate issued by a verification agency accredited by SANAS.

Or an Original Certified Sworn Affidavit signed by a Commissioner of Oaths (Note - An incomplete sworn affidavit will not be acceptable and Sworn Affidavits are for EME's (Turnover of R10 million or less) must be originals. No copies of affidavits will be accepted)

Or BBEE certificate issued by the Companies and Intellectual Property Commission (CIPC).

Bidders bidding as Joint Ventures are required to submit an original consolidated B-BBEE certificate from a SANAS accredited verification agency in order to qualify for points for the B-BBEE status level as one entity.

My failure to submit the certificate with my / our tender document will lead to the conclusion that I am / we do not wish to claim preference points in terms of my / our B-BBEE status.

T2.1.4 TAX CLEARANCE CERITFICATE

Tax Clearance Certificate or Unique Pin obtained from SARS to be inserted here]

T2.1.5 JOINT VENTURE AGREEMENT BETWEEN PARTIES

Attached hereto is our duly signed, Joint Venture Agreement. Our failure to submit the agreement with our tender document will lead to the conclusion that the joint venture has not been formally formed and all parties were not involved in the tender process.

**T2.1.6 CONTRACTOR'S COPY OF REGISTRATION OF INCORPORATION OR
COMPANY REGISTRATION DOCUMENTS**

Attached hereto is my / our copies of company registration of incorporation or company registration documents. My failure to submit the copy with my / our tender document will lead to the conclusion that I am / we are not registered as claimed.

T2.1.7 CIDB REGISTRATION CERTIFICATE

Attached hereto is my / our registration certificate with the Construction Industry Development Board. My / our failure to submit the certificate with my / our tender document will lead to the conclusion that my / our company is not registered with CIDB.

NOTE: The CIDB can be contacted or visited on www.cidb.org.za for more information and registration. Obtain a “Code of Conduct for all parties engaged in construction procurement” for you information.

**T2.1.8 COPY OF A LETTER OF GOODSTANDING WITH COMPENSATION FOR
OCCUPATIONAL AND INJURIES DISEASES ACT (COIDA / FEMA)
REGISTRATION CERTIFICATE**

Attached hereto is my / our certified copy of A LETTER OF good standing with the Compensation for Occupational Injuries and Diseases, e.g. letter of good standing. My / our failure to submit the certificate with your tender offer will lead to the conclusion that your entity/ company is not registered with COIDA / FEMA. If Joint Venture (JV) attach one for every service provider.

T2.1.9 COMPULSORY ENTERPRISE QUESTIONNAIRE

Note: *Compulsory Enterprise Questionnaire must be completed by each member of a JV or consortium*

Section 3: CIDB registration number, if any:			
Section 4: Particulars of sole proprietors and partners in partnerships			
Name*	Identity number*	Personal income tax number*	
* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners			
Section 5: Particulars of companies and close corporations			
Company registration number			
Close corporation number			
Tax reference number			
Section 6: Record in the service of the state			
Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:			
<input type="checkbox"/> a member of any municipal council	<input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)		
<input type="checkbox"/> a member of any provincial legislature	<input type="checkbox"/> a member of an accounting authority of any national or provincial public entity		
<input type="checkbox"/> a member of the National Assembly or the National Council of Province	<input type="checkbox"/> an employee of Parliament or a provincial legislature		
<input type="checkbox"/> a member of the board of directors of any municipal entity			
<input type="checkbox"/> an official of any municipality or municipal entity			
If any of the above boxes are marked, disclose the following:			
Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months
*insert separate page if necessary			
Section 7: Record of spouses, children and parents in the service of the state			
Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:			
<input type="checkbox"/> a member of any municipal council	<input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)		
<input type="checkbox"/> a member of any provincial legislature			
<input type="checkbox"/> a member of the National Assembly or the National Council of Province			

T2.1.9 COMPULSORY ENTERPRISE QUESTIONNAIRE

<input type="checkbox"/> a member of the board of directors of any municipal entity	<input type="checkbox"/> a member of an accounting authority of any national or provincial public entity
<input type="checkbox"/> an official of any municipality or municipal entity	<input type="checkbox"/> an employee of Parliament or a provincial legislature

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:

- authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- confirms that I / we are not associated, linked or involved with any other bidding entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed	Date
Name	Position
Enterprise name	

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

- 2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

- 2.2.1 If so, furnish particulars:

.....

- 2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

1 the power, by one person or a group of persons holding the majority of the equity of an

enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

2.3.1 If so, furnish particulars:
.....
.....

3 DECLARATION

I, the undersigned, (name).....in
submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.
I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

..... Signature Date
..... Position Name of bidder

**T2.1.11 CERTIFICATE OF ATTENDANCE AT COMPULSORY
BRIEFING**

This is to certify that (*tenderer*)
of (*address*)
..... was represented by the person(s)
named below at the compulsory meeting held for all tenderers at (*location*).....
..... on (*date*)..... starting at (*time*)

I / We acknowledge that the purpose of the meeting was to acquaint myself / ourselves
with the site of the works and / or matters incidental to doing the work specified in the
tender documents in order for me / us to take account of everything necessary when
compiling our rates and prices included in the tender.

Particulars of person(s) attending the meeting:

Name: Signature:
Capacity: Identity number:

**Attendance of the above person(s) at the meeting is confirmed by the Employer's
representative, namely:**

Name: Signature:
Capacity: Date and Time:

T2.1.12 CERTIFICATE OF AUTHORITY FOR SIGNATORY

Indicate the status of the tenderer by ticking the appropriate box hereunder. The tenderer must complete the certificate set out below for the relevant category, **and attach their Registration Certificates for Companies, Close Corporations and Partnerships, or Agreements and Powers of Attorney for Joint Ventures, or ID documents to the page provided at the end of this form.**

(I) COMPANY	(II) CLOSE CORPORATION	(III) PARTNERSHIP	(IV) JOINT VENTURE	(V) SOLE PROPRIETOR

(I) CERTIFICATE FOR COMPANY

I,, Id number..... chairperson of the Board of Directors ofhereby confirm that by resolution of the Board (copy attached) taken on 20....., Mr/Ms..... acting in the capacity of, was authorised to sign all documents in connection with the tender for Contract No and any contract resulting from it, on behalf of the company.

Chairman:

As Witnesses: 1.

2. Date:

(II) CERTIFICATE FOR CLOSE CORPORATION

We, the undersigned, being the key members in the business trading as hereby authorise Mr/Ms, acting in the capacity of, to sign all documents in connection with the tender for Contract No and any contract resulting from it, on our behalf.

NAME	ADDRESS	SIGNATURE	DATE
ID No.....			
ID No.....			
ID No.....			
ID No.....			

Note : This certificate is to be completed and signed by all of the key members upon whom rests the direction of the affairs of the Close Corporation as a whole.

(III). CERTIFICATE FOR PARTNERSHIP

We, the undersigned, being the key partners in the business trading as,
..... hereby authorize Mr/Ms
.....
acting in the capacity of, to sign all
documents in connection with the tender for Contract No.....and any contract
resulting from it, on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

Note : This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.

(IV) CERTIFICATE FOR JOINT VENTURE

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorize Mr/Ms
....., authorized signatory of the company,.....
acting in the capacity of lead partner, to sign all documents in connection with the tender offer for
Contract No.....and any contract resulting from it, on our behalf.

This authorization is evidenced by the attached power of attorney signed by legally authorized signatories of all the partners to the Joint Venture.

NAME OF FIRM	ADDRESS	AUTHORISING SIGNATURE, NAME AND CAPACITY
Lead partner		

Note : This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.

(V) CERTIFICATE FOR SOLE PROPRIETOR

I,, hereby confirm that I am the sole owner of the business
trading as

Signature of Sole owner:

As Witnesses:

1.

2.

Date:

T2.1.13 RECORD OF ADDENDA TO THE TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Attach additional pages if more space is required.

Signed

Date

Name

ID number

Position

Tenderer

T2.1.14 TENDERER'S FINANCIAL STANDING

The Tenderer shall provide information about his commercial position, which includes information necessary for the Employer to evaluate the Tenderer's financial standing.

To that end the Tenderer must provide with his tender a bank rating, certified by his banker, to the effect that he will be able to successfully complete the contract at the tendered amount within the specified time for completion.

However, should the Tenderer be unable to provide a bank rating with his tender, he shall state the reasons as to why he is unable to do so, and in addition provide the following details of his banker and bank account that he intends to use for project:

Name of account holder: _____

Name of Bank : _____

Branch : _____

Account number : _____

Type of account : _____

Telephone number : _____

Facsimile number : _____

Name of contact person (at bank : _____

Failure to provide either the required bank details or a certified bank rating with his tender, will lead to the conclusion that the Tenderer does not have the necessary financial resources at his disposal to complete the contract successfully within the specified time for completion.

The Employer undertakes to treat the information thus obtained as confidential, strictly for the use of evaluation of the tender submitted by the Tenderer.

SIGNATURE: _____

IDENTITY NUMBER: _____

(of person authorised to sign on behalf of the Tenderer)

DATE: _____

T2.1.15 AMENDMENTS, QUALIFICATIONS AND ALTERNATIVES

(This is not an invitation for amendments, deviations or alternatives but should the Tenderer desire to make any departures from the provisions of this contract he shall set out his proposals clearly hereunder. The Employer will not consider any amendment, alternative offers or discounts unless forms (a), (b) and (c) have been completed to the satisfaction of the Employer).

I / We herewith propose amendments, alternatives and discounts as set out in the tables below:

(a) AMENDMENTS

PAGE, CLAUSE OR ITEM NO	PROPOSED AMENDMENT

[Notes: (1) Proposals for amendments to the General and Special Conditions of Contract are not acceptable, and will be ignored;
(2) The Tenderer must give full details of all the financial implications of the amendments and qualifications in a covering letter attached to his tender.

(b) ALTERNATIVES

PROPOSED ALTERNATIVE	DESCRIPTION OF ALTERNATIVE

[Notes: (1) Individual alternative items that do not justify an alternative tender, and an alternative offer for time for completion should be listed here.
(2) In the case of a major alternative to any part of the work, a separate Bill of Quantities, programme, etc, and a detailed statement setting out the salient features of the proposed alternatives must accompany the tender.
(3) Alternative tenders involving technical modifications to the design of the works and methods of construction shall be treated separately from the main tender offer.]

(c) DISCOUNTS

ITEM ON WHICH DISCOUNT IS OFFERED	DESCRIPTION OF DISCOUNT OFFERED

[Note: The Tenderer must give full details of the discounts offered in a covering letter attached to his tender, failing which, the offer for a discount may have to be disregarded. Only unconditional discounts will be considered]

SIGNATURE: IDENTITY NUMBER:

(of person authorised to sign on behalf of the Tenderer)

DATE:.....

T2.1.16 SOCIO ECONOMIC UPLIFTMENT STRATEGY

Attached hereto are my / our proposed socio economic upliftment strategy. The strategy will as a minimum address items such as skills upliftment, training, sub contracting, skilled and semi-skilled labour employment, procurement of local labour and materials, employment of woman, youth and disabled, etc.

Notes:

- a) The developer has a commitment to utilising the local community resources and labour, and as such preference will be shown to bidders who prioritise local employment.
- b) As part of the tender documentation a methodology is to be submitted proposing as to how the main contractor will deal with the social economic expectations of the surrounding community.

The proposal is to allow for a suitable employment ratio of local community members and any additional measures that will enable future local community upliftment.

- c) The main contractor is required to familiarise himself with the community and local authority to ascertain for himself the full extent of the community's requirements and minimum wages.
- d) The contractor shall appoint a community liaison officer and shall be responsible for all community negotiations etc.

T2.1.17 PROPOSED SUB-CONTRACTORS

I/We hereby notify you that it is my/our intention to employ the following domestic sub-contractors for work on this contract, to be appointed and finalised after the award of the contract, apart from client's identified SMME packages (i.e 30% Local Empowerment Programme),.

If I/we am/are awarded a contract I/we agree that this notification does not change the requirement for me/us to submit the names of proposed subcontractors in accordance with requirements of the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us. I/We confirm that all subcontractors who are contracted to construct a house or building, are registered as home builders with the National Home Builders Registration Council.

NAMES AND ADDRESSES OF PROPOSED SUBCONTRACTORS	COMPANY REGISTRATION No. AND CIDB CLASSIFICATION	DESCRIPTION OF WORK TO BE EXECUTED BY SUBCONTRACTOR	VALUE OF SUBCONTRACT WORK

SIGNATURE: IDENTITY NUMBER:

(of person authorised to sign on behalf of the Tenderer)

DATE:.....

T2.1.18 CONTRACTOR'S HEALTH AND SAFETY DECLARATION

In terms of Clause 5(1)(h) of the OHSA 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHSA 1993 Construction Regulations 2014.

To that effect a person duly authorized by the tenderer must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHSA 1993 Construction Regulations 2014.
2. I hereby declare that my company / enterprise has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
3. I hereby undertake, if my tender is accepted, to provide a sufficiently documented Health and Safety Plan in accordance with Regulation 5(1) of the Construction Regulations, approved by the Employer or his representative, before I could be allowed to commence with construction work under the contract. I hereby agree that my company/enterprise will not have a claim for compensation for delay or extension of time because of my failure to obtain the necessary approval for the said safety plan.
4. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Safety Specifications as well as the OHSA 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, the Engineer, visitors, and officials and inspectors of the Department of Labour.
5. I hereby confirm that adequate provision has been made in my tendered rates and prices in the bill of quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHSA 1993 Construction Regulations 2014, including the cost for specific items that may be scheduled in the bill of quantities.
6. I hereby confirm that I will be liable for any penalties that may be applied by the Employer in terms of the said Regulations for failure on my part to comply with the provisions of the Act and the Regulations as set out in Regulation 33 of the Regulations.
7. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHSA 1993 Construction Regulations 2014, and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.
8. I am aware of the fact that, should I be awarded the contract, I must submit the notification required in terms of Regulation 4 of the OHSA 1993 Construction Regulations 2014 (*example attached hereafter*) before I could be allowed to proceed with any work under the contract.

SIGNATURE: _____

IDENTITY NUMBER: _____

(of person authorised to sign on behalf of the Tenderer)

DATE: _____

**T2.2.1 EVALUATION SCHEDULE: SAFETY HEALTH ENVIRONMENTAL AND
QUALITY MANAGEMENT SYSTEM (SHEQ) PLAN**

Attached hereto are my / our SHEQ Plan, all in compliance with the Health and Safety Specification – Annexure A or Letter of Undertaking from a Qualified OHS Consultant.(do we need a CV or professional registration attached?)

(PLEASE ATTACHED HERE)

T2.2.2 EVALUATION SCHEDULE: PROJECT EXPERIENCE

The Tenderer shall provide details of his relevant experience on similar large-scale projects completed in the past 10 years. In support tendrerers are to complete the “Project Experience” schedule below and attach thereto copies of (a) Letters of Appointment, and (b) all the relevant Completion Certificates (practical completion, work completion & final completion)

PROJECT NAME and CLIENT	BRIEF PROJECT DESCRIPTION	PROJECT VALUE (Incl VAT)	START DATE	COMPLETION DATE
A. _____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
B. _____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
C. _____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____

PROJECT NAME and CLIENT	BRIEF PROJECT DESCRIPTION	PROJECT VALUE (Incl VAT)	START DATE	COMPLETION DATE
D. <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
E. <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
F. <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>

**T2.2.3 EVALUATION SCHEDULE: LETTERS OF APPOINTMENT, AND
RELEVANT COMPLETION CERTIFICATES (PRACTICAL COMPLETION,
WORK COMPLETION & FINAL COMPLETION)**

Tenderer is to attach all letter of appointment and completion certificate corresponding to the project listed in T1.2

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the "Relevant Experience" returnable schedule. "Client Reference Scorecards" will be completed by each of the respective Clients for the projects listed in the "Relevant Experience" returnable schedule.

REPORT ON CONTRACTOR'S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. (*Only completed Projects shall be considered*)

PROJECT NAME A:

Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Not Acceptable	Poor (1 points)	Satisfactory (3 points)	Good (4 points)	Very Good (5 points)
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completed on contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm:

Telephone:

PA / Client Signature:

Date:

Stamp

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the “Relevant Experience” returnable schedule. “Client Reference Scorecards” will be completed by each of the respective Clients for the projects listed in the “Relevant Experience” returnable schedule.

REPORT ON CONTRACTOR’S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. (*Only completed Projects shall be considered*)

PROJECT NAME B:

Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Not Acceptable	Poor	Satisfactory	Good	Very Good
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completed on contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm:

Telephone:

PA / Client Signature:

Date:

Stamp

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the “Relevant Experience” returnable schedule. “Client Reference Scorecards” will be completed by each of the respective Clients for the projects listed in the “Relevant Experience” returnable schedule.

REPORT ON CONTRACTOR’S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. (*Only completed Projects shall be considered*)

PROJECT NAME C:

Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Not Acceptable	Poor	Satisfactory	Good	Very Good
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completed on contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm:

Telephone:

PA / Client Signature:

Date:

Stamp

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the “Relevant Experience” returnable schedule. “Client Reference Scorecards” will be completed by each of the respective Clients for the projects listed in the “Relevant Experience” returnable schedule.

REPORT ON CONTRACTOR’S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. (*Only completed Projects shall be considered*)

PROJECT NAME D:

Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Not Acceptable	Poor	Satisfactory	Good	Very Good
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completed on contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm:

Telephone:

PA / Client Signature:

Date:

Stamp

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the “Relevant Experience” returnable schedule. “Client Reference Scorecards” will be completed by each of the respective Clients for the projects listed in the “Relevant Experience” returnable schedule.

REPORT ON CONTRACTOR’S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. (*Only completed Projects shall be considered*)

PROJECT NAME E:

Principal agent:

Client:

Contract Amount:

Contract Duration:

Actual Contract Duration:

Description / Performance	Not Acceptable	Poor	Satisfactory	Good	Very Good
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completed on contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm:

Telephone:

PA / Client Signature:

Date:

Stamp

T2.2.5 EVALUATION SCHEDULE: KEY PERSONNEL

In terms of the Project Specification and the Conditions of Tender, unskilled workers may only be brought in from outside the local community if such personnel are not available locally.

The Tenderer shall list below the personnel that he intends to utilize on the Works, including key personnel that may have to be brought in from outside if not available locally. (definition of local)

CATEGORY OF EMPLOYEE	NUMBER OF PERSONS					
	KEY PERSONNEL, PART OF THE CONTRACTOR'S ORGANISATION		KEY PERSONNEL TO BE IMPORTED IF NOT AVAILABLE LOCALLY		UNSKILLED PERSONNEL TO BE RECRUITED FROM LOCAL COMMUNITY	
	HDI	NON-HDI	HDI	NON-HDI	HDI	NON-HDI
Construction Manager, Site Agent, Project Managers						
Foremen, Quality Control and Safety Personnel						
Technicians, Surveyors, etc						
Artisans and other Skilled workers						
Plant Operators						
Others:.....						

The Tenderer is referred to Clause F.2.1.1.2 of the Tender Data and shall insert in the spaces provided on the following pages details of the key personnel required to be in the employment of the tenderer or other organization, in order for the tenderer to be eligible to submit a tender for this project. Proof of professional registration must be appended to these schedules, together with the Curriculum Vitae of each individual.

SIGNATURE: IDENTITY NUMBER:

(of person authorised to sign on behalf of the Tenderer)

DATE:.....

EVALUATION SCHEDULE: CURRICULUM VITAE OF KEY PERSONNEL (COMPULSORY)

(CVs are required only for site agent, contract or project manager and technician and foreman)

CV FOR CONTRACTS OR PROJECT MANAGER

Name:		Date of birth:
Profession:		Nationality:
Qualifications:		
Professional Body:	Category of Registration:	Registration Number:
Professional Body:	Category of Registration:	Registration Number:
Professional Body:	Category of Registration:	Registration Number:
Name of Employer (firm):		
Current position:		Years of Experience:
<u>Employment Record:</u> 		
<u>Experience Record Pertinent to Required Service:</u> 		

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

SIGNATURE: IDENTITY NUMBER:

(of person authorised to sign on behalf of the Tenderer)
(OWNER OF THE CV)

DATE:.....

EVALUATION SCHEDULE: CV FOR SITE AGENT

Name:		Date of birth:
Profession:		Nationality:
Qualifications:		
Professional Body:	Category of Registration:	Registration Number:
Professional Body:	Category of Registration:	Registration Number:
Professional Body:	Category of Registration:	Registration Number:
Name of Employer (firm):		
Current position:		Years of Experience:
<u>Employment Record:</u> 		
<u>Experience Record Pertinent to Required Service:</u> 		

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....
SIGNATURE OF THE INCUMBANT IN THE SCHEDULE

.....
DATE

.....
INCUMBANT'S IDENTITY NUMBER (why different from the above)

[illegible]

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....
DATE

85

[illegible]

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

DATE

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T2.2.6 EVALUATION SCHEDULE: PROGRAMME

The Tenderer shall attach a preliminary programme reflecting the proposed sequence and tempo of execution of the various activities comprising the work for this Contract. The programme shall be in accordance with the information supplied in the Contract, requirements of the Project Specifications and with all other aspects of his Tender.

PROGRAMME (EXAMPLE ONLY)

ACTIVITY	MONTHS									
	1	2	3	4	5	6	7	8	9	10

[Note: The programme must be based on the completion time as specified in the Contract Data. No other completion time that may be indicated on this programme will be regarded as an alternative offer, unless it is listed in Table (b) of Form I hereafter and supported by a detailed statement to that effect, all as specified in the Tender Data]

SIGNATURE: IDENTITY NUMBER:

(of person authorised to sign on behalf of the Tenderer)

DATE:.....

T2.2.7 EVALUATION SCHEDULE: SCHEDULE OF PLANT & EQUIPMENT

The following are lists of major items of relevant equipment that I / we presently own or lease and will have available for this contract if my / our tender is accepted. (will be hired)

- (a) Details of major equipment owned by me / us and are immediately available for this contract.

DESCRIPTION (type, size, capacity etc)	QUANTITY	YEAR OF MANUFACTURE

Attach additional pages if more space is required

- (b) Details of major equipment that will be hired, or acquired for this contract if my / our tender is accepted

DESCRIPTION (type, size, capacity etc)	QUANTITY	HOW ACQUIRED	
		HIRE/BUY	SOURCE

Attach additional pages if more space is required

The Tenderer undertakes to bring onto site without additional cost to the Employer any additional plant not listed but which may be necessary to complete the contract within the specified contract period.

Failure to complete this form properly and correctly, will lead to the conclusion that the tenderer does not have the necessary plant and equipment resources at his disposal, and will prejudice his tender.

SIGNATURE: IDENTITY NUMBER:

(of person authorised to sign on behalf of the Tenderer)

DATE:.....



PART C1 : AGREEMENT AND CONTRACT DATA

C1.1 Form of Offer and Acceptance

C1.2 Contract Data

C1.3 Form of Guarantee (Pro Forma as per specific contract)

C.1.4 Adjudicators Agreement

C1.1 FORM OF OFFER AND ACCEPTANCE

C1.1 Form of Offer and Acceptance

A. Offer [Failure of a Tenderer to sign this form will invalidate the tender]

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement :

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE– BID NUMBER: DRD01NWER003

The Tenderer, identified in the Offer signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the Tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

The offered total of the prices inclusive of Value Added Tax is:.....

Amount in Words:

.....
.....

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

<p style="text-align: center;">..... SIGNATURE(S) OF AUTHORISED BIDDERS(S)</p> <p>NAME:</p> <p>CAPACITY:</p> <p>DATE:</p> <p>ADDRESS</p> <p>.....</p> <p>.....</p> <p>CONTACT::</p>	<p>WITNESSES</p> <p>3.</p> <p>4.</p>
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B. ACCEPTANCE

By signing this part of the Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in

Part C1 Agreements and Contract Data (which includes this Agreement)

Part C2 Pricing Data, including the Schedule of Quantities

Part C3 Scope of Work

and the schedules, forms, drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representatives of both parties.

The Tenderer shall deliver the Guarantee in terms of Clause 7 of the General Conditions of Contract 2004 within the period stated in the Contract Data, and he shall, immediately after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any other bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data, within 14 days of the date on which this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

Signature Date

Name

Capacity

**for the
Employer** Independent Development trust

.....
.....
.....
.....

Name and
Signature
Of witness
.....

Date

C. SCHEDULE OF DEVIATIONS

By the duly authorised representatives signing this agreement, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

1 Subject

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Details

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2 Subject

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3 Subject

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4 Subject	
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5 Subject	
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C1.2 CONTRACT DATA

INDEPENDENT DEVELOPMENT TRUST

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

C1.2 Contract Data for BID NO: DRD01NWER003

The Conditions of Contract are clauses of the **JBCC Series 2000 Principal Building Agreement (Edition 6.2)** published by the Joint Building Contracts Committee together with IDT's Special Conditions of Contract.

Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors (011 315-4140), Master Builders Association (011 205-9000; 057 352-6269) South African Association of Consulting Engineers (011 463-2022) or South African Institute of Architects (051 447-4909; 011 486-0684; 053 831-2003;)

The JBCC Principal Building Agreement makes several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. Should there be any contradictions between the **Contract Data** and the JBCC Principal Building Agreement, the Contract Data shall take precedence.

Each item of data given below is cross-referenced to the clause in the JBCC Principal Building Agreement to which it mainly applies.

The additions, deletions and alterations to the JBCC Principal Agreement are:

Clause	Amendments
1.0	<p>DEFINITIONS AND INTERPRETATION</p> <p>Clause 1.1 is deemed to be amended by the addition and amendments of the following:</p> <p>Change the Definition of "AGREEMENT" to read as follows: This JBCC Principal Building Agreement, the contractor's tender document accepted by the employer, the form of offer signed by the contractor, special conditions of contract, contract data and other contract documents.</p> <p>The completed JBCC® Principal Building Agreement and JBCC® contract data, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representatives of the parties</p> <p>Change the Definition of "BILLS OF QUANTITIES" to read as follows: The document drawn up in accordance with the pricing instructions contained in the pricing data.</p> <p>Change the Definition of "CONSTRUCTION PERIOD" to read as follows: The period commencing on the intended date [CD] of possession of the site by the contractor and ending on the date of practical completion</p> <p>Change the Definition of "CONTRACT DOCUMENTS" to read as follows: The agreement and all documents referenced therein. The contract documents shall be taken to be mutually explanatory of one another but in the event of ambiguity, discrepancy, divergence or inconsistency in or between them, the Contract Data shall prevail over all other contract documents The above has been removed from 6.2, due to the agreement definition which now includes contract document</p> <p>Change the definition of "PAYMENT CERTIFICATE" to read as follows: A certificate prepared at regular agreed intervals by the principal agent to the contractor certifying the value of work done and verified by the employer for payment, delivered to the employer and properly recorded on</p>
Clause	Amendments
	<p>delivery, and the certificate will only become due and payable once the employer has verified and signed the certificate. Note: The employer reserves the right to withhold or reject the certificate within ten (10) working days should there be a reason to do so, and the contractor may resort to the dispute resolution process should the rejection fails to be resolved.</p> <p>Change the Definition of "PRACTICAL COMPLETION" to read as follows: The stage of completion where the works or a section thereof, in the opinion of the principal agent, has been reached in accordance with C28 & C29 this is a different clause of the specific preliminaries and where the work on the practical completion list (and patent's list if applicable) has been completed and free of latent defects other than minor defects identified in the list for completion and can be used for the intended purpose and certified as complete by the principal agent.</p> <p>Change the Definition of "CONTRACT DRAWINGS" to read as follows: The drawings listed in the Scope of Works.</p>

	<p>Change the Definition of "CONTRACT SUM" to read as follows: The total of prices in the Form of Offer and Acceptance.</p> <p>Change the Definition of "INTEREST" to read as follows: The interest rates applicable to this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).</p> <p>A monetary guarantee [CD] provided by the employer to the contractor, or vice versa, in terms of this agreement from which either party may recover expense and loss in the event of default</p> <p>Add the following to the list of definitions:</p> <p>SCHEDULE means the variables listed in the Contract Data.</p> <p>DATE OF SITE HANDOVER means the date the contractor is given possession of the site, which shall always be after the signing of the agreement and approval of the construction permits from the relevant authorities including Departments of Labour and Environmental Affairs and local municipality (where applicable).</p> <p>EXCEPTIONALLY INCLEMENT WEATHER means weather which is not only extreme or severe but exceeding that which, on the evidence of the past ten years, could reasonably be expected.</p> <p>TENANT LIST means a list compiled by the tenant or in his absence the principal agent defining the incomplete or defective work to be rectified to achieve practical completion. Such list shall be scrutinised and endorsed by the principal agent and shall not be unreasonable in the context of his contract.</p> <p>CORRUPT PRACTICE means the offering, giving, receiving and soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution</p> <p>FRAUDULENT PRACTICE means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer, and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.</p>
3.0	<p>OFFER AND ACCEPTANCE</p> <p>Clause 3.3 deleted and replaced with the following:-</p> <p>3.3 This agreement shall come into force on the date of signature of the contract by the employer and after all statutory requirements have been met, and continue to be of force and effect until the end of the latent defects liability period notwithstanding termination or the certification and final payment [22.0;29.0;25.0]</p>

Clause	Amendments
4.0	<p>CESSION AND ASSIGNMENT</p> <p>Clause 4.2 deleted and replaced with the following:-</p> <p>4.2. The Contractor shall not consent to a nominated Subcontractor assigning or ceding rights or obligations in terms of this agreement without obtaining the prior written consent of the Principal Agent with written approval from the Employer</p> <p>Clause 4.3 deleted and replaced with the following:-</p> <p>4.3. Where the Contractor intend to cedes any right to monies due or to become due under this agreement as security in favour of a financial institution, a written consent in accordance with clause 4.1 , shall be obtained from the Employer prior to entering into such cession.</p> <p>Clause 4.0 is amended by adding the following new clauses:</p> <p>4.4 Any cession entered into without the necessary written consent from either party, shall be null and void.</p> <p>4.5 The Employer shall not consent to a cession of monies due or to become due under this agreement as security in favour of a financial institution, unless such financial institution submitted to the IDT a Valid Tax Clearance Certificate, is registered as a credit provider in terms of the National Credit Act and as a vendor in the IDT's Vendor Management System and in line with the IDT's SCM processes.</p> <p>4.6 The contractor shall adhere to the list of subcontractors indicated in the returnable schedules. Any changes to the subcontractors and their subcontract work shall be approved by the client in writing. The contractor shall not subcontract more than 25% of the works to subcontractors whose BEE status is less than his at the time of appointment. Failure to comply with this shall constitute a breach of contract.</p>
5.0	<p>CONTRACT DOCUMENTS</p> <p>Clause 5.1 deleted and replaced with the following:-</p> <p>5.1. The parties shall sign the original contract document and shall each be issued with the copy thereof. The original signed contract document shall be held by the Employer.</p> <p>Clause 5.6 deleted and replaced with the following:-</p> <p>5.6. The contract documents shall be deemed to be mutually explanatory of one another. In the event of ambiguity, discrepancy, divergence or inconsistency in or between them, the Contract Data shall prevail over all other contract documents.</p>

6.0	<p>EMPLOYER'S AGENTS</p> <p>Clause 6.1 deleted and replaced with the following:-</p> <p>6.1. The Employer warrants that the Principal Agent has authority and obligation to act and bind the Employer in terms of this agreement, subject to certain restrictions contained herein this document.</p> <p>Clause 6.4 deleted and replaced with the following:-</p> <p>6.4. Where any agent fails to act in terms of delegated authority, the Contractor shall give notice to the Principal Agent and the Employer to respond to such default within five (5) working days or any agreed period. Where such default has not been responded to within the specified or the agreed period, the Contractor may give not less than 10 working days' notice of intention to suspend the works [28.0].</p> <p>Clause 6.5 deleted and replaced with the following:-</p>
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Clause	Amendments
	<p>6.5 Where any agent fails to act or is unable to act, or ceases to be an agent, in terms of this agreement, the Employer shall appoint an interim agent within 10 working days from the date of the employer being aware of such event pending procurement of a replacement agent through normal employer's SCM processes.</p>
9.0	<p>INDEMITIES</p> <p>Clause 9.0 is amended by the addition of the following clause:-</p> <p>Clause 9.1.4. Physical loss or damage to an existing structure in the works that are the subject of the contract and to existing structures as well.</p> <p>Delete 9.2.7.</p> <p>Delete 9.2.10.</p>
10.0	<p>INSURANCES</p> <p>Clause 10.0 is amended by the addition of the following clauses to the end thereof:</p> <p>10.12 Damage to the works</p> <ul style="list-style-type: none"> (a) Without any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary. (b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage or destruction of the works and to rebuild, restore, replace and/or repair the works. (c) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof. <p>10.13 Injury to Persons or loss of or damage to Properties</p> <ul style="list-style-type: none"> (a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable (b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable. (c) The contractor shall upon receiving a contract instruction from the principal agent cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost therefore from the contractor or to deduct the same from amounts due to the contractor. (d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion.

Clause	Amendments
	<p>(e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed.</p> <p>(f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and / or repair such property and execute the works.</p> <p>10.14 High Risk Insurance</p> <p>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions which might result in catastrophic ground movement evident by sinkhole or dolomite formation the following will apply:</p> <p>10.14.1 Damage to the works</p> <p>The contractor shall, from the commencement date of the works until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and hold harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary.</p> <p>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, replace and/or repair the works, at the contractor's own costs.</p> <p>10.14.2 Injury to persons or loss of or damage to property</p> <p>The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above.</p> <p>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of construction.</p> <p>10.14.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.14.1 and 10.14.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty one (21) calendar days of the commencement date but before commencement of the works submit to the employer proof of such insurance policy, if requested to do so.</p> <p>10.14.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred subsequent upon the contractor's default of his obligations as set out in 10.14.1, 10.14.2 and 10.14.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered on indivisible whole.</p>
11.0	<p>SECURITY</p> <p>Delete clause 11.1.2. and replace with the following:-</p>

Clause	Amendments
	<p>11.1.2. The contractor shall furnish the employer with a fixed construction guarantee equal in value to ten per cent (10%) of the contract sum within fifteen (15) working days from the offer of appointment date and keep such security valid and enforceable until the final payment certificate has been issued to the contractor).</p> <p>Or</p> <p>Delete clause 11.1.3. and replace with the following:-</p> <p>11.1.3 The Contractor shall furnish the employer with a fixed set of five per cent (5%) guarantee of the contract sum and a payment reduction of 5% of the value of each payment certificate up to a maximum of five per cent (5%) of the contract sum [25.3.3]. The contractor shall keep such security valid and enforceable until the final payment certificate has been issued. The contractor could release the retention at any stage of the contract by issuing a further construction guarantee of five percent (5%) of the contract sum.</p> <p>Amend clause 11.3 to read as following:</p> <p>11.3 Where a contractor fails to provide the security for projects of value less than R5 million, the employer may:</p> <p>Amend clause 11.3.1 to read as follows:</p> <p>11.3.1 Hand over the site to the contractor and withhold in interim payment certificates to the contractor an amount equal to ten percent (10%) of the contract sum. The amount withheld shall be reduced at practical completion [19.0] to five percent (5%) of the contract sum and to zero percent (0%) in the final payment certificate [25.6]</p> <p>Delete Clauses 11.1.4, 11.1.5, 11.2; 11.4; 11.5</p> <p>Delete 11.7 and replace with the following</p> <p>11.7. A security held by the employer shall be for the due fulfillment of the contractor's obligation in term of this agreement</p> <p>Delete clause 11.10 and replace with the following</p> <p>11.10 The Contractor hereby waives, in favour of the Employer, any lien or right of retention that is or may be held in respect of the Works to be executed on the Site.</p> <p>Clause 11.0 is amended by adding the following new clauses:</p> <p>11.12 Within fifteen (15) working days of the date of final completion of the works the employer shall release all construction guarantees to the contractor.</p> <p>11.13 Where the employer has a right of recovery against the contractor, the employer may issue a written demand in terms of the construction guarantee.</p> <p>11.14 Construction guarantees shall only expire at final completion date.</p> <p>11.15 The Employer, as an Organ of State, shall not be required to provide payment guarantees</p>

12.0	<p>DUTIES OF THE PARTIES</p> <p>Delete clause 12.1.1</p> <p>Delete clause 12.1.10</p> <p>Clause 12.0 is further amended by adding the following clauses:</p> <p>12.4 The contractor shall:</p> <p>12.4.1 Immediately on award of the contract and prior to the commencement on site, the contractor shall prepare a working programme covering the first month of the construction period. This working programme shall be prepared in conjunction with the principal agent and shall be subject to his approval.</p>
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Clause	Amendments
	<p>During the first month of the construction period the contractor shall prepare and draw up the programme for the balance of the works for approval by the principal agent</p> <p>12.4.2 This programme shall be drawn up in accordance with the dates in the agreement for possession, sectional completion and practical completion and shall be in sufficient and approved detail to ensure control over the works.</p> <p>12.4.3 The programme shall be compiled based on the Critical Path Method of Programming with the critical activities clearly highlighted. It shall be compiled in such a way that logic is not constrained by resource limitations unless specifically approved by the principal agent.</p> <p>12.4.4 Documentation will not be available in complete detail at the commencement stage. However the contractor, in conjunction with the principal agent, shall progressively plan the works on provisional information available and with sufficient scope to include future detail without disrupting the basic logic initially approved by the principal agent.</p> <p>The quantities contained in these bills of quantities are provisional and shall be utilized as a guide only for the drawing up of the programme.</p> <p>Where assumptions are made in regard to programming aspects, such assumptions shall be recorded in the programme.</p> <p>12.4.5 The programme shall be updated and modified to accommodate a material change in circumstances or whenever reasonably required by the principal agent.</p> <p>Any acceleration and/or special measures sanctioned by the principal agent together with associated effects shall be incorporated in a revision to the programme.</p> <p>12.4.6 The programme (including each revision thereof) shall be prepared in conjunction with the principal agent and shall be subject to his approval. The approval of the principal agent shall be deemed to be given on the basis that the contractor represents that the programme complies with the requirements of this agreement.</p> <p>The contractor shall be responsible at all times for maintaining the accuracy, validity and reasonableness of the programme and the implementation thereof. The fact that a programme has been prepared in conjunction with the principal agent or approved by him shall not release or relieve the contractor from any of his obligations or responsibilities under this agreement. Without derogating from the foregoing, the contractor shall at all times bear the onus to demonstrate that the programme complies with the requirement of this agreement and, where applicable constitute an appropriate baseline programme for any purpose in connection with this agreement.</p> <p>12.4.7 The contractor and the principal agent shall, at regular intervals not exceeding one month, assess the state of progress of the works relative to the latest agreed revision of the programme. Such agreement shall include the recording of actual commencement and completion dates for each activity and shall constitute the official record of the progress at such point in time.</p> <p>12.4.7 The contractor shall comply with his tendered subcontractors as stipulated in clause 4.6.</p> <p>12.5 The contractor shall not remove, cut back or disturb trees and shrubs without a contract instruction from the principal agent. (Specific requirements of the employer must be described)</p> <p>12.6 The contractor shall ensure that any relics, treasure or other articles of potential value found on the site remain the property of the employer and shall be handed over to the principal agent who shall be the sole arbiter of what is an article of value.</p>

14.0	<p>NOMINATED SUBCONTRACTORS</p> <p>Delete clause 14.1 and replace with the following</p> <p>14.1 The principal agent and/or agents, on written instruction from the employer, shall:</p> <p>Delete clause 14.1.5</p> <p>Amend clause 14.3 to read as follows:-</p>
Clause	Amendments
	<p>14.3 Where such subcontractor is not appointed by the contractor for the reasons stated (14.2), or where the appointment of a subcontractor has been terminated, another subcontractor shall be nominated and be appointed on instruction from the principal agent on written instruction from the employer.</p> <p>Amend clause 14.7.1 to read as follows:-</p> <p>The principal agent, on written instruction from the employer, shall instruct the contractor to appoint another nominated subcontractor (14.1.4) to complete the n/s subcontract works.</p>
15.0	<p>SELECTED SUBCONTRACTORS</p> <p>Amend clause 15.1 to read as follows:-</p> <p>The principal agent and/or agents, on written instruction from the employer, shall:</p> <p>Clause 15.1.2 deleted and replaced with:</p> <p>15.1.2. Call for tenders from a list of tenderers agreed between the contractor, the principal agent and the employer</p> <p>15.1.5. Delete</p> <p>Amend clause 15.4 to read as follows:-</p> <p>15.4. Where such subcontractor is not appointed by the contractor for the reasons stated (15.3), or where the appointment of a subcontractor has been terminated, another subcontractor shall be chosen and be appointed on instruction from the principal agent on written instruction from the employer.</p> <p>Amend clause 15.7.1 to read as follows:-</p> <p>15.7.1 The contractor shall appoint another selected subcontractor (15.1.4) to complete the n/s subcontract works in consultation with principal agent and/agents on written instruction from the employer</p>
16.0	<p>Amend clause 16.1.1 by adding the following sub-clause:</p> <p>6.1.1.1 The employer will appoint direct contractors for the following direct contract work and the contractor shall be expected to accommodate them in his planning and execution of work:</p> <p>a)</p> <p>b)</p>

17.0	<p>CONTRACT INSTRUCTIONS</p> <p>Amend Clause 17.0 by adding the following sub clauses under clause 17.1.2</p> <p>The word “substantially” in the main clause above is qualified by the following four sub clauses:</p> <p>17.1.2.1 Quantity as per line item in fixed Bill of Quantity of more than 5%.</p> <p>17.1.2.2. Variation in standards that result in rate adjustment within the BOQ of more than 5%</p> <p>17.1.2.3. Variation in the design that varies the contract sum by more than 5%</p> <p>17.1.2.4. Should any of the clauses 17.1.2.1-3 be triggered the employer must be notified within 24 hour of becoming aware of the change in writing. The 5% variance includes the exceeding or reduction of the amount as stated above.</p> <p>Amend clause 17.1.13 to read as follow:</p> <p>17.1.13 Expenditure of budgetary allowances, prime cost amount and provisional sums will only be allowed with the express, explicit and unique written consent of the employer.</p>
Clause	Amendments

19.0	<p>PRACTICAL COMPLETION</p> <p>Amend Clause 19.0 by adding the following clauses:</p> <p>19.4.1. In the event of failure as contemplated in the main clause, The employer reserves the right to issue a practical completion list in excess of the principal agent list or in replacement thereof.</p> <p>19.4.2. No default Practical completion will be deemed to be given, in light of sub clause 19.4.1</p> <p>19.8 Without derogating from the generality of the requirements for practical completion the following specific requirements shall apply:</p> <p>19.8.1 Defects occurring after the issue of the practical completion list requiring remedial work that will, in the opinion of the principal agent, cause disruption, will cause the issue of the certificate of practical completion to be withheld until such defects have been rectified to the satisfaction of the principal agent.</p> <p>19.8.2 The following certificates of compliance shall be required (excluding others that may be required by the local/national authority) from the contractor to achieve practical completion and completion certificate shall be invalid if one of them is missing:</p> <ul style="list-style-type: none"> a) A certificate from the contractor that all aspects of the construction regulations of 2003 have been complied with. b) A certificate from the contractor that the National Building Regulations have been complied with c) An occupancy certificate d) occupational Health and Safety certificate e) A certificate of compliance with respect to plumbing and drainage f) An electrical certificate of compliance g) A certificate of compliance with respect to all glazing h) A certificate of compliance and fire clearance certificate from the contractor and fire chief respectively. i) A galvanizing and painting guarantee. j) All mechanical certificate of compliance. k) All structural certificate of compliance. l) A palisade certificate of compliance. m) A smoke extraction certificate of compliance. n) A fire signage certificate of compliance. o) A tiling certificate of compliance. p) A waterproofing certificate of compliance. q) A generator guarantee. r) Commissioning reports s) Maintenance and operational manuals t) Training of end users on equipment, etc. u) Any other applicable guarantees. <p>19.8.3 A complete set of maintenance and operating manuals together with all workmanship and material warranties and guarantees are to be compiled and issued to the principal agent prior to practical completion being granted. In addition to the abovementioned documentation, a formal "on site" handover will be required to be conducted with every discipline in the presence of the contractor as well as the applicable services subcontractor.</p> <p>Delete Clause 19.6 and replace with the following clauses:</p> <p>19.6 Notwithstanding anything to the contrary contained in the contract, should the contractor in the opinion of the principal agent not have achieved practical completion of any area of the works, the employer may, notwithstanding the contractor's ongoing responsibilities, take possession of any such area and such possession by the employer shall not in any way be construed that practical completion has been achieved.</p> <p>In such event, the principal agent shall give written notice to the contractor that the employer is taking immediate possession of any particular area/s without practical completion having been achieved in order to mitigate the employer's damages and exposure to loss or expense.</p>
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Clause	Amendments
	<p>19.6.1 In the event of the Employer taking occupation of the works or part thereof prior to practical completion being achieved, but on or after the date for practical completion, the employer shall:</p> <p>(a) Have the principal agent issue a practical completion list(s) prior to such occupation</p> <p>(b) Grant the contractor thereafter all reasonable access to expeditiously attend to the items on the practical completion list(s)</p> <p>Add clause 19.9 to Clause 19.0 to read as follows:</p> <p>19.8 After the issue of the certificate of practical completion, entry upon the works to make good defects shall be at such reasonable times as shall be agreed by the principal agent.</p> <p>The contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims of loss of profit shall not be entertained.</p>
22.0	<p>LATENT DEFECT LIABILITY PERIOD</p> <p>Amend Clause 22.1 to read as follow:</p> <p>22.1 The latent defect liability period for the works shall commence at the start of the construction period and end 10 years from the certified date of final completion.</p> <p>Amend 22.2.1 to read as follow:</p> <p>22.2.1 Where termination of this agreement occurs before the date of final completion, the latent defect liability period shall end 10 Years from the date of termination (29.10; 29.23) for the completed portion of the works only.</p> <p>Delete clause 22.2</p>
23.0	<p>REVISION OF THE DATE FOR PRACTICAL COMPLETION</p> <p>Amend 23.2 to read as follow:</p> <p>23.2 The contractor is entitled to a revision of the date for practical completion with an adjustment of the contract value (26.0) by the principal agent subject to a written approval from the employer, for a delay to practical completion caused by one or more of the following events:-</p> <p>Amend 23.7 to read as follow:</p> <p>23.7. The principal agent shall, within twenty (20) working days of receipt of the claim, with the written consent of the employer, grant in full, reduce, refuse the working days claimed, and:</p>

25.0	<p>PAYMENT</p> <p>Amend 25.1. to read as follow:</p> <p>25.1 The contractor shall cooperate with and assists the employer and Principal agent in the preparation of the cash flow statement and payment valuation by providing all required document and quantified amount of work duly executed. Where the contractor has not provided such information the principal agent shall make a fair estimate of the work executed.</p> <p>Amend Clause 25.0 by adding the following sub clauses under clause 25.1:</p>
Clause	Amendments
	<p>25.1.1. The principal agent shall prepare in full the payment certificate for signature and effect by the employer as stipulated in the contract. No payment certificate will be concluded and effected without the employer's authorized signature on the certificate.</p> <p>25.1.2. No payment certificate will be effected without the employer's authorized signature on the certificate.</p> <p>25.1.3 The Employer reserves the right to demand a valid Tax Clearance Certificate prior to making any payment to the Contractor, should it become aware that the tax clearance certificate has expired.</p> <p>25.1.4 The Contractor shall submit the valid Tax Clearance Certificate within fifteen (15) working days or any extended period, from the date of expiry of the Tax Clearance Certificate.</p> <p>Amend clause 25.4.4 to read as follows:</p> <p>25.4.4 Default interest, where applicable, shall only be effective after the 30 calendar days from the date of submission of undisputed payment certificate and Contractor Invoice to the employer at the rate of repo rate plus 3%.</p> <p>25.4.5. Delete</p> <p>Amend 25.7 to read as follow:</p> <p>25.7 The Employer shall, in accordance with clause 8.2.3 of the treasury regulation of March 2005, pay to the Contractor the amount certified in an interim payment certificate within thirty (30) calendar days from the date of submission of undisputed payment certificate to the employer after verification, unless there is an objection of the certificate by the employer. <i>The employer cannot reject a certificate once the employer signs it.</i></p> <p>Amend Clause 25.9 by adding the following sub clauses:</p> <p>25.9.1 The employer shall only be liable for the payment for materials and/or goods on site if ownership is proven by the contractor (paid in full) and such ownership shall pass on to the employer upon payment.</p> <p>25.9.2 The employer shall only be liable for the payment for materials and/or goods offsite if ownership is proven by the contractor (paid in full) and the contractor submits a bank guaranteed cheque of the value of materials and/or goods in favour of the client and such ownership shall pass on to the employer upon payment.</p>

26.0	<p>ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT</p> <p>Add the followings sub clauses to clause 26.1.</p> <p>26.1.1. Upon receipt of the change request, the Principal Agent must professionally consider the merits of the change request and make a recommendation to the employer.</p> <p>26.1.2. The Principal Agent shall not have the power to approve any deviation or variation which has financial implications on the Employer without the necessary written approval of the Employer, except under emergency circumstances wherein failure to undertake the work may result in loss of life.</p>
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Clause	Amendments
	<p>26.1.3. The Employer must communicate the approval of the change request in writing to the Principal Agent and the Principal Agent shall, upon receipt of confirmation of the change request, issue the necessary Contract Instruction to the contractor to undertake the works.</p> <p>26.1.4. The Contractor shall not commence with any change request Works without proof of the written approval of the Variation Order from the Employer, except under circumstances mentioned in paragraph 26.1.2 above.</p> <p>26.1.5 Should the Contractor undertakes the change request Works without the necessary written approval of the change request from the Employer, the Contractor shall be entirely liable for any financial and any related implications and hereby indemnify and hold harmless the Employer from and against any and all claims, actions, damages, liabilities, injuries, costs, fees, expenses, or losses, including and without limitation, reasonable attorney's fees and costs of investigation and litigation, whatsoever which may be incurred by, or for which liability may be asserted against, the Employer arising out of the Contractor's performance or non-performance of unauthorized works, but only to the extent caused by the negligent acts, errors or omissions of the Contractor.</p> <p>26.1.6. The Contractor shall not accept any instructions from any party, including beneficiary Department, other than the Principal Agent.</p> <p>Amend clause 26.7 to read as follow: 26.7 The principal agent, in consultation with the employer, shall assess the claim and on approval by the employer, shall adjust the contract value within twenty (20) working days of receipt of such details.</p>
27.0	<p>RECOVERY OF EXPENSE AND/OR LOSS</p> <p>27.1.4. Delete</p>
28.0	<p>SUSPENSION BY THE CONTRACTOR</p> <p>Amend clause 28.1. to read as follow: 28.1 The contractor may give fourteen (14) Working days' notice to the employer and the principal agent of the intention to suspend the works where the employer and the principal agent have failed to:</p> <p>Add the followings clause to clause 28.0: 28.5. The date of resumption of works shall be the date on which the default has been remedied by the employer.</p>

29.0	<p>TERMINATION</p> <p>Clause 29.1.1 is amended by the addition of the following sub-clauses:</p> <p>29.1.1a The contractor refuses or neglects to comply strictly with any of the conditions of contract.</p> <p>29.1.1b The contractor's estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force with the Republic of South Africa.</p> <p>29.1.1c The contractor, in the judgment of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.</p>
Clause	Amendments
	<p>29.1.1d The contractor fails to perform in terms of the agreement or the employer on reasonable ground believe that the contractor may not be able to comply with his obligation.</p> <p>Amend 29.10 to read as follow:</p> <p>29.10 The latent defect liability period for the completed portion of the works shall end (22.2.1) 10 years from the date of termination.</p> <p>Amend 29.23 to read as follow:</p> <p>29.23 The latent defect liability period for the completed portion of works shall end 10 years from the date of termination (22.2.2).</p>
30.0	<p>DISPUTE RESOLUTION</p> <p>Delete clauses 30.3, 30.4, 30.5 and 30.6</p>

Contract Agreement

Clause Number	Contract Agreement
41.0	<p>41.0 POST TENDER PROVISIONS</p> <p>41.1 All information provided in this section requires consultation with the parties to the agreement.</p> <p>41.2 The completed Contract Data - Employer and Contractor data - Contractor addenda and such other pertinent documents as listed below shall form part of this agreement:</p> <p>41.3 The dispute resolution body selected by the parties is:</p> <p style="text-align: center;"><u>THE ASSOCIATION OF SOUTH AFRICAN ARBITRATORS</u></p> <p>41.4 The employer shall provide a Payment Guarantee (amount) <input type="text" value="N/A"/></p> <p>41.5 An annual building industry holiday period is applicable (yes/no) <input type="text" value="YES"/></p> <p>41.6 Further provisions and information agreed by the parties:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
42.0	<p>42.0 CONTRACTUAL AGREEMENT</p> <p>42.1 This agreement is the entire (special conditions?) contract between the parties regarding the matters addressed herein. No representations, terms, conditions or warranties not contained in this agreement shall be binding on the parties. No agreement or addendum varying, adding to, deleting or terminating this agreement including this clause shall be effective unless reduced to writing and signed by the parties.</p> <p>42.2 Contracting Parties</p> <p>(1) Employer : THE INDEPENDENT DEVELOPMENT TRUST</p> <p>Physical Address : North West Regional Office 4071 Joule Street Industrial Site Mmabatho, 2735</p> <p>Telephone : (018) 389 3000 Fax : (086) 656 4152 E-mail : permyk@idt.org.za</p> <p>TAX / Vat Registration no : 458 014 7876</p>

Clause Number	Contract Agreement		
	<p>(2) Contractor :</p> <p>Physical Address :</p> <p>Telephone : Fax : E-mail :</p> <p>TAX / Vat Registration no :</p> <p>42.3 The accepted contract sum (inclusive of tax)</p> <p style="text-align: right;">(amount) <input style="width: 150px;" type="text"/></p> <p>(In words) _____</p> <p>_____</p> <p>_____</p> <p>42.4 Signature of the contracting parties:</p> <p>Thus done and signed at _____ on _____</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>_____ Name of signatory</p> <p>_____ Capacity of signatory</p> <p>Thus done and signed at _____ on _____</p> <p>_____ Name of signatory</p> <p>_____ Capacity of signatory</p> </td> <td style="width: 50%; vertical-align: top;"> <p>_____ For and on behalf of the employer who by signature hereof warrants authorisation hereto</p> <p>_____ As Witness (1)</p> <p>_____ For and on behalf of the contractor who by signature hereof warrants authorisation hereto</p> <p>_____ As Witness (2)</p> </td> </tr> </table>	<p>_____ Name of signatory</p> <p>_____ Capacity of signatory</p> <p>Thus done and signed at _____ on _____</p> <p>_____ Name of signatory</p> <p>_____ Capacity of signatory</p>	<p>_____ For and on behalf of the employer who by signature hereof warrants authorisation hereto</p> <p>_____ As Witness (1)</p> <p>_____ For and on behalf of the contractor who by signature hereof warrants authorisation hereto</p> <p>_____ As Witness (2)</p>
<p>_____ Name of signatory</p> <p>_____ Capacity of signatory</p> <p>Thus done and signed at _____ on _____</p> <p>_____ Name of signatory</p> <p>_____ Capacity of signatory</p>	<p>_____ For and on behalf of the employer who by signature hereof warrants authorisation hereto</p> <p>_____ As Witness (1)</p> <p>_____ For and on behalf of the contractor who by signature hereof warrants authorisation hereto</p> <p>_____ As Witness (2)</p>		

Clause Number	Contract Agreement	
	<p>Details of Witness (1)</p> <p>Name: _____</p> <p>Address: _____</p> <p>_____</p> <p>_____</p>	<p>Details of Witness (2)</p> <p>Name: _____</p> <p>Address: _____</p> <p>_____</p> <p>_____</p>

C1.2.1 Special Conditions of Contract

INTRODUCTION

WHEREAS, the Independent Development Trust (“IDT”) made an Offer of Appointment and the Contractor has accepted such appointment subject to the conditions stipulated in the aforesaid Offer of Appointment Letter, which conditions include signing of the JBCC Agreement, Edition 6.2 @ May 2018 (hereinafter referred to as “Main Agreement”) and the Contract Data.

AND WHEREAS, this Special Condition of Contract shall form part of the Main Agreement between the Employer and the Contractor.

a) ADDITIONS TO THE MAIN AGREEMENT AND THE CONTRACT DATA

1.1 JOINT VENTURE AGREEMENT

- 1.1.1** Should the Joint Venture Agreement be dissolved or any of the JV partner pull out the JV Agreement for any reasons whatsoever, the Employer hereby reserve its right to terminate the contract with immediate effect.
- 1.1.2** Should one JV partner pull out of the JV agreement and the replacement JV partner does not meet the BBEE threshold stipulated in clause 5.4 of the Special Condition of the Principal Contract, the IDT shall be entitled to cancel the contract with immediate effect.
- 1.1.3** Should the BBEE status of the Joint Venture be changed to a lower rate than the bidding rate, based on legislation applicable at the time of tender closing, the IDT shall be entitled to cancel the contract.

b) SUBCONTRACTING

- 1.1** A service provider awarded the contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher BBEE status level than the person (service provider) concerned, unless the contract is subcontracted to an exempted micro enterprise that has the capability and ability to execute the sub-contract.
- 1.2** Service provider awarded the project shall subcontract not less than 15% of the contract value to Black-owned local firms with preferably women, youth and people with disability

c) LOCAL ENTERPRISE

Service provider awarded the project shall purchase at least 5% of the materials locally where available.

d) TRAINING

Service provider awarded the project may train local labour on life skills, on the job and accredited certification in e.g. plumbing etc.

e) INSURANCES

The contractor shall be responsible for effecting and maintaining the contract works insurance for the full duration of the contract period. The insured amount for the full scope of works shall be 100% of the contract amount. The insured amount shall include for alterations and renovations to existing buildings and shall not reduce in any way despite sectional; completion being taken.

f) SITE AND ACCESS AND WORKING HOURS

Clauses 16.0, 16.1 and 16.6 amended to read as follows:

“the site of the works is regarded a National Key Point within which the contractor shall have restricted access to the site on being given possession to fulfill his obligations. The contractor shall be briefed on the restrictions of movement, servitudes, access control, buildings in use, security requirements and security clearances, working hours due to the site being occupied and under the employers control at all times. The contractor shall not extend his operations into any restricted or undefined areas.

The contractor shall ensure that all personnel and subcontractors engaged on the contract and those visiting the site have the necessary security clearances prior to such persons being brought on to site. Any persons found to be non-compliant shall not be allowed entry to the site. All costs associated with the verification of personnel to meet this requirement shall be borne by the contractor.

The employer shall have unrestricted and continuous access to the works due to the statutory classification of the site and its operations. This arrangement shall be coordinated and agreed upon by all parties prior to the handover of the site to the contractor. A steering committee comprising representatives of the employer, the principal agent, the contractor and any other nominated or required party shall be set up to ensure that the contractors operations are unhindered.

Work shall be carried out during normal working hours. Any extended times or approval or overtime work shall be considered and approved by the steering committee.

The contractor shall comply with the employers' rules for the control of delivery of materials and goods into the site and for the removal of such items from the site.”

g) PAYMENT OF PRELIMINARY & GENERAL COSTS (P&G)

In the event that the contractor, due to causes of his own making, fails to achieve the targets set out in his construction programme and his performance is not in accordance with the contract, payment of the time related p&g will be paid in proportion to the value of the monthly progress payment and not in accordance with the projected cash flow for this item. The principal agent shall review the status quo and revert to paying the contractor in

accordance with the contract once the contractor has demonstrated improvement of their performance and the principal agent is satisfied that the contractor is performing diligently.

Similarly the full amount of the fixed portion of the p&g will be paid only once the successful contractor has fully complied with deliverables under this section.

h) FINAL PAYMENT

The employer shall pay to the contractor the amount certified in final payment certificate within thirty (30) calendar days of the date of issue of the payment certificate or the contractors tax invoice whichever is the later date.

i) AMBIGUITY OR DISCREPANCY

If any ambiguity or discrepancy in any of the documents forming part of the contract is found, then the contract data and or amendments herein shall prevail in cases of conflict between any of the documents.

all risks insurance - especially with the current weather conditions - we need to ensure that all contracts are insured.

SIGNATURE OF THE PARTIES

Signed at Pretoria on this the day of **2021**

AS WITNESSES:

1. _____

For and on behalf of the **Employer:**
.....
in his/her capacity as Acting Regional
General Manager

2. _____

For and on behalf of the **Employer:**
.....
in his/her capacity as the Programme
Manager.

Signed at Pretoria on this the day of **2021**

AS WITNESSES:

1. _____

3. _____

For and on behalf of the **Service
provider:**
.....
in his/her capacity as Director, who
hereby confirm that he/she is duly
authorised hereto.

C1.3 FORM OF GUARANTEE

C1.3 FORM OF GUARANTEE

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

Contract No.:

WHEREAS **INDEPENDENT DEVELOPMENT TRUST** (hereinafter referred to as "the Employer") entered into, a Contract with _____ (hereinafter called "the Contractor") on the _____ day of _____ 20____ for the construction of _____ at _____

AND WHEREAS it is provided by such Contract that the Contractor shall provide the Employer with security by way of a guarantee for the due and faithful fulfilment of such Contract by the Contractor;

AND WHEREAS

has/have at the request of the Contractor, agreed to give such guarantee;

NOW THEREFORE WE,

do hereby guarantee and bind ourselves jointly and severally as Guarantor and Co-principal Debtors to the Employer under renunciation of the benefits of division and excussion for the due and faithful performance by the Contractor of all the terms and conditions of the said Contract, subject to the following conditions:

1. The Employer shall, without reference and/or notice to us, have complete liberty of action to act in any manner authorized and/or contemplated by the terms of the said Contract, and/or to agree to any modifications, variations, alterations, directions or extensions of the Completion Date of the Works under the said Contract, and that its rights under this guarantee shall in no way be prejudiced nor our liability hereunder be affected by reason of any steps which the Employer may take under such Contract, or of any modification, variation, alterations of the Completion Date which the Employer may make, give, concede or agree to under the said Contract.
2. This guarantee shall be limited to the payment of a sum of money
3. The Employer shall be entitled, without reference to us, to release any guarantee held by it, and to give time to or compound or make any other arrangement with the Contractor.
4. This guarantee shall remain in full force and effect until the issue of the Certificate of Completion in terms of the Contract, unless we are advised in writing by the Employer before the issue of the said

Certificate of his intention to institute claims, and the particulars thereof, in which event this guarantee shall remain in full force and effect until all such claims have been paid or liquidated.

5. Our total liability hereunder shall not exceed the sum of (not exceeding 10% of the Contract Sum) in

_____ (R_____)

The Guarantor reserves the right to withdraw from this guarantee by depositing the Guaranteed Sum with the beneficiary, whereupon the Guarantor's liability hereunder shall cease.

We hereby choose our address for the serving of all notices for all purposes arising here from as

IN WITNESS WHEREOF this guarantee has been executed by us at

on this _____ day of _____ 20_____

As witnesses:

1. _____ Signature _____

2. _____ Signature _____

Duly authorized to sign on behalf of

Address _____

C1.4 ADJUDICATOR'S AGREEMENT

C1.4: Adjudicator's Agreement

This agreement is made on the.....day of 20.....between the Employer

(name of company / organisation)

of (address)

..... and the Contractor

(name of company / organisation).....of

(address)

..... (hereinafter called **the Parties**)

and

(name)

of (address)

..... (hereinafter called **the Adjudicator**)

Disputes or differences may arise/have arisen* between the Parties under a Contract No

.....

for (contract title)

and these disputes or differences shall be/have been* referred to adjudication in accordance with the CIDB Adjudication Procedure, (hereinafter called "**the Procedure**") and the Adjudicator may be or has been requested to act.

(* Delete as necessary)

IT IS NOW AGREED as follows:

1. The rights and obligations of the Adjudicator and the Parties shall be as set out in the Procedure.
2. The Adjudicator hereby accepts the appointment and agrees to conduct the adjudication in accordance with the Procedure.
3. The Parties bind themselves jointly and severally to pay the Adjudicator's fees and expenses in accordance with the Procedure as set out in the Contract Data.
4. The Parties and the Adjudicator shall at all times maintain the confidentiality of the adjudication and shall endeavour to ensure that anyone acting on their behalf or through them will do likewise, save with the consent of the other Parties which consent shall not be unreasonably refused.
5. The Adjudicator shall inform the Parties if he intends to destroy the documents which have been sent to him in relation to the adjudication and he shall retain documents for a further period at the request of

either Party.

6. **SIGNED by:**

(Signature):(Signature):(Signature):

Name:.....Name:..... Name:

who warrants that he/ she is
duly authorized to sign for and
on behalf of the **First Party** in
and on behalf of the presence
of

who warrants that he/ she is
duly authorized to sign for and
on behalf of the **Second Party**
presence of

the **Adjudicator** in the presence
of

Witness: **Witness:** **Witness:**
(Signature):(Signature):(Signature):

Name:.....Name:..... Name:

Address:Address: Address:

.....

Date:..... Date:..... Date:

C1.5: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993

Refer Overleaf:

**C.1.5 AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND
SAFETY ACT No 85 OF 1993**

THIS AGREEMENT is made between Independent Development trust represented by the Supply Chain Management.

(hereinafter called the EMPLOYER) of the one part, herein represented by:

.....
in his capacity as:
;

AND:

(hereinafter called the CONTRACTOR) of the other part, herein represented by

.....
in his capacity as:

duly authorised to sign on behalf of the Contractor.

WHEREAS the CONTRACTOR is the Mandatary of the EMPLOYER in consequence of an agreement between the CONTRACTOR and the EMPLOYER in respect of:

**TENDER: PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE
QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING
ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL
DEVELOPMENT, NORTHWEST PROVINCE BID NO.DRD01NWER003**

at MELTON RESEARCH FARM

**AND WHEREAS the EMPLOYER and the CONTRACTOR have agreed to enter into an agreement
in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act No 85 of
1993, as amended by OHSA Amendment Act No 181/1993 (hereinafter referred to as the ACT);**

NOW THEREFORE the parties agree as follows:

- 1. The CONTRACTOR undertakes to acquaint the appropriate officials and employees of the CONTRACTOR with all relevant provisions of the ACT and the regulations promulgated in terms thereof.**
- 2. The CONTRACTOR undertakes to fully comply with all relevant duties, obligations and prohibitions imposed in terms of the ACT and Regulations: Provided that should the EMPLOYER have prescribed certain arrangements and procedures that same shall be observed and adhered to by the CONTRACTOR, his officials and employees. The CONTRACTOR shall bear the onus of acquainting himself/herself/itself with such arrangements and procedures.**
- 3. The CONTRACTOR hereby accepts sole liability for such due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures, if any, imposed by the ACT and Regulations, and the CONTRACTOR expressly absolves the EMPLOYER and the Employer's CONSULTING ENGINEERS from being obliged to comply with any of the aforesaid duties, obligations, prohibitions, arrangements and procedures in respect of the work included in the contract.**
- 4. The CONTRACTOR agrees that any duly authorised officials of the EMPLOYER shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the CONTRACTOR has complied with his undertakings as more fully set out in paragraphs 1 and 2**

above, which steps may include, but shall not be limited to, the right to inspect any appropriate site or premises occupied by the CONTRACTOR, or to take such steps the EMPLOYER may deem necessary to remedy the default of the CONTRACTOR at the cost of the CONTRACTOR.

5. The CONTRACTOR shall be obliged to report forthwith to the EMPLOYER any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the ACT and Regulations, pursuant to work performed in terms of this agreement, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

Thus signed at for and on behalf of the **CONTRACTOR**

on this the day of 20.....

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESSES: 1.

2.

Thus signed at for and on behalf of the **EMPLOYER** on this

the day of 20.....

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESSES: 1.

2.

C1.6 Waiver of Lien

Refer Overleaf:



Waiver of Contractor's Lien

for use with the JBCC Principal Building
or JBCC Minor Works Agreements

DEFINITIONS

Contractor _____

Employer _____

Agreement _____
(Principal Building Agreement
or Minor Works Agreement)

Works (description) _____

Site _____
(property title deed description)

AGREEMENT

The Contractor waives, in favour of the Employer, any lien or right of retention that is or may be held in respect of the Works to be executed on the Site

This waiver shall only come into effect on provision by the Employer of a Payment Guarantee for fulfilment of his obligations in terms of the identified Agreement

Thus done and signed at _____ on

Name of signatory

Capacity of signatory

As witness

For and on behalf of the Contractor who by
signature hereof warrants authorisation hereto

JBCC Series 2000 □ Code 2121 July 2007

C2: PRICING DATA

C2.1 PRICING INSTRUCTIONS

C2: PRICING DATA

C2.1 Pricing Instructions

- 1 The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work (as amended) published and issued by the Association of South African Quantity Surveyors (Sixth Edition (Revised)), 1999. Where applicable the:
 - a) Civil engineering work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardized Specifications for Civil Engineering Works.
 - b) Mechanical work has been drawn up in accordance with the provisions of the Model Bills of Quantities for Refrigeration, Air-Conditioning and Ventilation Installations, published by the South African Association of Quantity Surveyors, July 1990).
 - c) electrical work has been drawn up in accordance with the provisions of the Model Bills of Quantities for Electrical Work, published by the South African Association of Quantity Surveyors, (July, 2005).
- 2 The agreement is based on the JBCC Series 2000 Principal Building Agreement, prepared by the Joint Building Contracts Committee, Edition 4.1, and March 2005. The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variables areas stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 3 Preliminary and general requirements are based on the various parts of the JBCC Series 2000 Preliminaries as prepared by the Joint Building Contracts Committee, Edition 4.1, and March 2005. The additions, deletions and alterations to the various parts of the JBCC Series 2000 Preliminaries as well as the contract specific variables are as stated in the Specification Data in the Scope of Work. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 4 It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards).
- 5 The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
- 6 The drawings listed in the Scope of Works used for the setting up of these Bills of Quantities are kept by the quantity surveyor and can be viewed at any time during office hours up until the completion of the works.
- 7 Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
- 8 The rates contained in the Bills of Quantities will apply irrespective of the final quantities of the different classes and kinds of work actually executed.

- 9 Rates for work of similar description occurring in different sections of the Bills of Quantities shall be identical.
- 10 An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
- 11 Where any item is not relevant to this specific contract, such item is marked N/A (signifying “not applicable”)
- 12 The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminary and General) of the Bills of Quantities
- 13 The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor’s risk.
- 14 The amount of the Preliminary and General Section to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminary and General Section and any amount in respect of contract price adjustment provided for in the contract.
- 15 Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in 14 but taking into account the revised period for completing the works.
- 16 The amount or items of the Preliminary and General Section shall be adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bills of Quantities:
- a) an amount which is not to be varied, namely Fixed (F)
 - b) an amount which is to be varied in proportion to the contract value, namely Value Related (V); and
 - c) an amount which is to be varied in proportion to the contract period as compared to the initial construction period excluding revisions to the construction period for which no adjustment to the contractor is not entitled to in terms of the contract, namely Time Related (T).
- 17 Where no provision is made in the Bills of Quantities to indicate which of the three categories in 12 apply or where no selection is made, the adjustments shall be based on the following breakdown:
- a) 10 percent is Fixed;
 - b) 15 percent if Value Related
 - c) 75 percent is Time Related.
- 18 The adjustment of the Preliminary and General Section shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminary and General Section shall exclude any contingency sum, the amount for the Preliminary and General Section and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.
- 19 Payment for items, which are designated to be constructed under labour-intensively, will not be made unless they are constructed using labor-intensive methods. Any unauthorized use of plant to carry out

work which

was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

- 20 The tenderer is to acquaint himself as to the specific requirements of this tender as contained in additional clauses A1 to A6 to the JBCC Principal Agreement as incorporated in the ContractData. These clauses may be priced under the relevant Preliminaries items in SECTION C: SPECIFIC PRELIMINARIES of the Preliminaries Bill. No claim will be entertained due to the failure of the tenderer to allow for these requirements
- 21 Provisional sums are provided for some items in the Schedule of Quantities. Work done under these items will be at the written direction of the Employer. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work actually done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.
- 22 The Tenderer shall not under any circumstances whatsoever delete or amend any of the sums inserted in the "Amount" column of the Bill of Quantities and in the Summary of the Bill of Quantities unless ordered or authorized in writing by the Employer before closure of tenders. Any authorized changes made by the Tenderer to provisional items in the schedule, or to the provisional percentages and sums in the Summary of the Bill of Quantities, will be treated as arithmetical errors.
- 23 **Payment to the contractor to accommodate Part/Full Occupational qualification and Trade qualifications**
The employer shall include the following statement in the pricing assumptions:
The contractor shall apportion the learners in the different construction activities based on the scope of work.
The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.
- 24 **Payment to the contractor for supervision and mentoring Part/Full Occupational qualification and Trade qualifications learners**
The employer shall make no provision for an additional payment item for the payment of the supervisor and/or mentors for the provision of training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule for the training of part/full time occupational learners and/or trade qualification learners.

C2.2 BILL OF QUANTITIES

PRICING OF PRELIMINARIES

Should the **contractor** select Option A in terms of subclause 3.2.1 in the **Contract Data - Contractor to Employer (CE)** for the purpose of adjustment of these **preliminaries**, the amount entered into the amount column in these **preliminaries** is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)

Carried to Collection

R

Section No.1- Preliminaries and General

Bill No. 1

Preliminaries

Part C2: Pricing Data

DRD01NWER003

SECTION A: PRINCIPAL BUILDING AGREEMENT**Definitions (A1)**

A Clause 1.0 - Definitions and interpretation

The measuring system used for the preparation of the **bills of quantities** is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1]

F:..... V:..... T:.....

Item

Objective and preparation (A2 - A14)

B Clause 2.0 - Offer acceptance and performance obligations

F:..... V:..... T:.....

Item

C Clause 3.0 - Documents

Refer to Annexure A for a list of the **contract drawings**

Provision is made in the summary page of these **bills of quantities** for the inclusion of Value Added Tax (VAT) [3.5]

The **principal agent** shall decide which portion of the **priced document** may be used as a specification of **materials and goods** or methods, if any [3.9]

F:..... V:..... T:.....

Item

D Clause 4.0 - Design responsibility

F:..... V:..... T:.....

Item

E Clause 5.0 - **Employer's** agents

F:..... V:..... T:.....

Item

F Clause 6.0 - **Contractor's site** representative

F:..... V:..... T:.....

Item

Carried to Collection

R

Section No.1- Preliminaries and General

Bill No. 1

Preliminaries

Part C2: Pricing Data

DRD01NWER003

A	<p>Clause 7.0 - Compliance with laws and regulations</p> <p>Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [7.1]</p> <p>F:..... V:..... T:.....</p>	Item	
B	<p>Clause 8.0 - Works risk</p> <p>F:..... V:..... T:.....</p>	Item	
C	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p>	Item	
D	<p>Clause 10.0 - General insurances</p> <p>F:..... V:..... T:.....</p>	Item	
E	<p>Clause 11.0 - Special insurances</p> <p>F:..... V:..... T:.....</p>	Item	
F	<p>Clause 12.0 - Effecting insurances</p> <p>F:..... V:..... T:.....</p>	Item	
G	<p>Clause 13.0 - Assignment</p> <p>F:..... V:..... T:.....</p>	Item	
H	<p>Clause 14.0 - Security</p> <p>F:..... V:..... T:.....</p> <p><u>Execution (A15 - A23)</u></p>	Item	
I	<p>Clause 15.0 - Preparation for and execution of the works</p> <p>F:..... V:..... T:.....</p>	Item	
Carried to Collection		R	
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A	<p>Clause 16.0 - Site and access</p> <p>Certain areas will be occupied during the construction period and the contractor must execute the works with as little noise and disturbance as possible to the occupants. [16.6]</p> <p>F:..... V:..... T:.....</p>	Item	
B	<p>Clause 17.0 - Contract instructions</p> <p>F:..... V:..... T:.....</p>	Item	
C	<p>Clause 18.0 -Setting out of the works</p> <p>The contractor shall notify the principal agent if any encroachment of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1]</p> <p>F:..... V:..... T:.....</p>	Item	
D	<p>Clause 19.0 - Temporary works and plant</p> <p>Clause 19.1.1 - Enclosure of the works</p> <p>F:..... V:..... T:.....</p>	Item	
E	<p>Clause 19.1.2 - Office accommodation - provide suitable office accommodation for site meetings with tables and chairs for ten people</p> <p>F:..... V:..... T:.....</p>	Item	
F	<p>Clause 20.0 - Nominated subcontractors</p> <p>Refer to the provisions on general attendance hereinafter</p> <p>F:..... V:..... T:.....</p>	Item	
G	<p>Clause 21.0 - Selected subcontractors</p> <p>General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work</p> <p>F:..... V:..... T:.....</p>	Item	
	<p>Section No.1- Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>Part C2: Pricing Data</p> <p>DRD01NWER003</p>	R	

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Payment (A31 - A35)

A Clause 31.0 - Interim payment

Materials and goods stored off **site** shall not be included in the amount authorised for payment [31.6.5]

F:..... V:..... T:.....

Item

B Clause 32.0 - Adjustment to the **contract value** - NOT APPLICABLE

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the **contractor** [32.13]

Where prices are submitted by the **contractor** or **n/s subcontractor** during the progress of the **works** in respect of **contract instructions** or in regard to a claim under the terms of the **agreement** and notwithstanding the fact that such prices may be used in an interim **payment certificate** there is to be no presumption of acceptance. Should the **principal agent** wish to accept any such prices prior to the issue of the **certificate of final completion**, it shall be in writing

The **contractor** shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims for loss of profit shall not be entertained [32.2]

F:..... V:..... T:.....

N/A

C Clause 33.0 - Recovery of expense and loss

F:..... V:..... T:.....

Item

D Clause 34.0 - **Final account** and final payment

F:..... V:..... T:.....

Item

E Clause 35.0 - Payment to other parties

F:..... V:..... T:.....

Item

Termination (A36 - A39)F Clause 36.0 - Termination by **employer** - **contractor's** default

F:..... V:..... T:.....

Item

G Clause 37.0 - Termination by **employer** - loss and damage

F:..... V:..... T:.....

Item

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A	<p>Clause 38.0 - Termination by contractor - employer's default</p> <p>F:..... V:..... T:.....</p>	Item	
B	<p>Clause 39.0 - Termination - cessation of the works</p> <p>F:..... V:..... T:.....</p> <p><u>Dispute (A40)</u></p>	Item	
C	<p>Clause 40.0 - Settlement of disputes</p> <p>F:..... V:..... T:.....</p> <p><u>Contract variables (A41 - A42)</u></p>	Item	
D	<p>Clause 41.0 - Post tender provisions</p> <p>The contractor is to complete and submit with his tender the JBCC Principal Building Agreement Contract Data CE</p> <p>F:..... V:..... T:.....</p>	Item	
E	<p>Clause 42.0 - Contractual agreement</p> <p>The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties</p> <p>F:..... V:..... T:.....</p> <p><u>SECTION B: PRELIMINARIES</u></p> <p><u>Definitions and interpretation (B1)</u></p>	Item	
F	<p>Clause 1.0 - Definitions and interpretation</p> <p>F:..... V:..... T:.....</p> <p><u>Documents (B2)</u></p>	Item	
G	<p>Clause 2.1 - Checking of documents</p> <p>F:..... V:..... T:.....</p>	Item	
Carried to Collection		R	
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A	Clause 2.2 - Provisional bills of quantities F:..... V:..... T:.....	Item	
B	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:..... <u>Previous work and adjoining properties (B3)</u>	Item	
C	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
D	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
E	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:..... <u>Samples, shop drawings and manufacturer's instructions (B4)</u>	Item	
F	Clause 4.1 - Samples of materials F:..... V:..... T:.....	Item	
G	Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item	
H	Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item	
I	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item	
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Deposits and fees (B5)

A Clause 5.1 - Deposits and fees

F:..... V:..... T:.....

Item

Temporary services (B6)

B Clause 6.1 - Water

F:..... V:..... T:.....

Item

C Clause 6.2 - Electricity

F:..... V:..... T:.....

Item

D Clause 6.3 - Telecommunication facilities

F:..... V:..... T:.....

Item

E Clause 6.4 - Ablution facilities

F:..... V:..... T:.....

Item

Prime cost amounts (B7)F Clause 7.1 - Responsibility for **prime cost amounts**

F:..... V:..... T:.....

Item

Special attendance on n/s subcontractors (B8)

G Clause 8.1 - Special attendance

F:..... V:..... T:.....

Item

General (B9)H Clause 9.1 - Protection of the **works**

F:..... V:..... T:.....

Item

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A	<p>Clause 9.2 - Protection/isolation of existing/ occupied works</p> <p>Certain areas of the site will be occupied during the construction period (see item 4 page 14)</p> <p>F:..... V:..... T:.....</p>	Item	
B	<p>Clause 9.3 - Security of the works</p> <p>F:..... V:..... T:.....</p>	Item	
C	<p>Clause 9.4 - Notice before covering work</p> <p>F:..... V:..... T:.....</p>	Item	
D	<p>Clause 9.5 - Disturbance</p> <p>F:..... V:..... T:.....</p>	Item	
E	<p>Clause 9.6 - Environmental disturbance</p> <p>F:..... V:..... T:.....</p>	Item	
F	<p>Clause 9.7 - Works cleaning and clearing</p> <p>F:..... V:..... T:.....</p>	Item	
G	<p>Clause 9.8 - Vermin</p> <p>F:..... V:..... T:.....</p>	Item	
H	<p>Clause 9.9 - Overhand work</p> <p>F:..... V:..... T:.....</p>	Item	
<u>Schedule of variables (B10)</u>			
Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract			
10.1 - Provisional bills of quantities [2.2]			
The quantities are provisional		No	
10.2 - Availability of construction documentation [2.3]			
Construction documentation is complete		No	
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10.3 - Previous work - dimensional accuracy [3.1]

10.4 - Previous work - defects [3.2]

10.5 - Inspection of adjoining properties [3.3]

10.6 - Water [7.2]

Option A (by contractor)	Yes
Option B (by employer - free of charge)	No
Option C (by employer - metered)	No

10.7 - Electricity [7.3]

Option A (by contractor)	Yes	
Option B (by employer - free of charge)		No
Option C (by employer - metered)	No	

10.8 - Telecommunications [7.4]

Telephone	Yes
Facsimile	Yes
E-mail	Yes

10.9 - Ablution facilities [7.5]

Option A (by contractor)	Yes	
Option B (by employer)		No

10.10 - Protection of the **works** [9.1]10.11 - Protection/isolation of existing/sectionally occupied **works** [9.2]

Protection/isolation is required	Yes
----------------------------------	-----

10.12 - Disturbance [9.5]

10.13 - Environmental disturbance [9.6]

SECTION C: SPECIFIC PRELIMINARIES

Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included

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A	Black economic empowerment and training F:..... V:..... T:.....	Item	
B	Proprietary branded products F:..... V:..... T:..... The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative	Item	
C	Contract instructions F:..... V:..... T:..... Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor	Item	
D	Labour record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item	
E	Plant record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week	Item	
F	Guarantees F:..... V:..... T:.....	Item	
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Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement

A Overtime

F:..... V:..... T:.....

Item

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer

B Co-operation of contractor for cost management

F:..... V:..... T:.....

Item

It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors

C Occupational Health and Safety Specification

F:..... V:..... T:.....

Item

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Part C2: Pricing Data

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The contractor shall comply with all the requirements set out in the Construction Regulations 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).

It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.

The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including extension of time or interest, due to such delay of payment.

Provisions for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

- A Allow for the compulsory equipment and clothing, ie hats, safety shoes, safety clothing, safety glasses, safety masks, harnesses, etc

F:..... V:..... T:.....

Item

- B Allow for all compulsory health and safety posters, boards, etc

F:..... V:..... T:.....

Item

- C Allow for all compulsory health and safety workshops, meetings, lectures, demonstrations, etc

F:..... V:..... T:.....

Item

- D Allow for all compulsory health and safety pamphlets, cards, paperwork, etc to each worker, consultant, public individual, etc coming onto the site

F:..... V:..... T:.....

Item

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A	Use and temporary storage of flammable liquids on construction sites as per Act No 85 of 1993		
	F:..... V:..... T:.....	Item	
B	Water environments as per Act No 85 of 1993		
	F:..... V:..... T:.....	Item	
C	Housekeeping on construction sites as per Act No 85 of 1993		
	F:..... V:..... T:.....	Item	
D	Stacking and storage on construction sites as per Act No 85 of 1993		
	F:..... V:..... T:.....	Item	
E	Fire precautions as per Act No 85 of 1993		
	F:..... V:..... T:.....	Item	
F	Construction welfare as per Act No 85 of 1993		
	F:..... V:..... T:.....	Item	
G	Approved inspection Authorities as per Act No 85 of 1993		
	F:..... V:..... T:.....	Item	
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A	Offences and penalties as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
B	Repeal of regulations as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
C	Short title as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
D	Obligatory Sub-contracting and Training F:..... V:..... T:.....	Item	
E	Expanded Public Works Programme F:..... V:..... T:.....	Item	
F	C11.1 Local and targeted labour F:..... V:..... T:.....	Item	
G	Allow for regular submission of proof of employment of local skilled and unskilled labour to Employer's representative F:..... V:..... T:.....	Item	
H	Training allowance paid to targeted labour in respect of formal training. F:..... V:..... T:.....	Item	
Carried to Collection		R	
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A	Extra over for the administration of payment of training allowances to targeted labour F:..... V:..... T:.....	Item	
B	Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site F:..... V:..... T:.....	Item	
C	C12: Contract drawings F:..... V:..... T:.....	Item	
D	C13: General preambles F:..... V:..... T:.....	Item	
E	C14: Trade names F:..... V:..... T:..... Wherever a trade name form any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for	Item	
F	C15: Community Liaison Officer F:..... V:..... T:.....	Item	
G	Allow for a Community Liaison Officer (CLO) to be appointed F:..... V:..... T:.....	Item	
Carried to Collection		R	
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A	Allow for net extra cost involved in the employment of a Community Liaison Officer (CLO) in respect of the site office. F:..... V:..... T:.....	Item	
B	Allow for net extra cost involved in the employment of a Community Liaison Officer (CLO) in respect of the toilets. F:..... V:..... T:.....	Item	
C	Allow for net extra cost involved in the employment of a Community Liaison Officer (CLO) in respect of the sheds. F:..... V:..... T:.....	Item	
D	C16: SANS 1921-6: HIV/AIDS Awareness read in conjunction with the Associated Specification Data F:..... V:..... T:.....	Item	
E	General requirements (Clause 4.1) F:..... V:..... T:.....	Item	
F	HIV/AIDS awareness programme (Clause 4.2) F:..... V:..... T:.....	Item	
G	Reporting (Clause 4.3) F:..... V:..... T:.....	Item	
Carried to Collection		R	
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SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BILL NO. 1</u></p> <p><u>DEMOLITIONS</u></p> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent</p> <p>Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site</p>			
A	<p><u>Demolishing and removing</u></p> <p>Single storey asbestos building with pitched roof, 18 x 13m on plan and 3m high at eaves, comprising unreinforced concrete surface bed, external walls, internal walls and roof covering on timber trusses</p>	No	1	
	Carried to Collection			R
	<p>Section No.2- Single Quarters</p> <p>Bill No. 1</p> <p>Demolitions</p> <p>Part C2: Pricing Data</p> <p>DRD01NWER003</p>			

A	Single storey asbestos building with pitched roof, 16 x 12m on plan and 3m high at eaves, comprising unreinforced concrete surface bed, external walls, internal walls and roof covering on timber trusses	No	1		
B	Excavation in earth not exceeding 2m deep to remove foundations (Provisional)	m3	64		
C	Extra over for removal of brickwork (Provisional)	m3	50		
Carried to Collection					R
Section No.2- Single Quarters					
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Demolitions					
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Testing

Prices for filling are to include for all necessary density tests in accordance with SABS 1200D

Labour intensive methods

The contractor will be required to use labour intensive methods for the items which have been marked with the letters "LI" as described in the Scope of Work

NOTE: All items in this section shall be deemed to fall into Work Group 104 for Haylett formula purposes

SITE CLEARANCESite clearance

A	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	488
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REMOVAL OF TREES ETC

Cutting down and removing, grubbing up roots, filling in holes and compacting to 95% Mod AASHTO density

B	Tree exceeding 500mm and not exceeding 1000mm girth	No	15
C	Tree exceeding 500mm and not exceeding 1000mm girth	No	5

BULK EXCAVATION, FILLING, ETCDigging up topsoil

D	Digging up topsoil to an average depth of 100mm and preserving for use as filling	m2	49
---	---	----	----

Open face excavation in earth

E	Open face excavation	m3	439
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Extra over bulk excavation in earth for excavation in

F	Soft rock	m3	44
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Section No.2- Single Quarters

Bill No. 2

Earthworks

Part C2: Pricing Data

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	<u>Extra over trench and hole excavations in earth for excavation in</u>				
A	Soft rock	m3	7		
B	Hard rock	m3	3		
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 93% Mod AASHTO density</u>				
C	Not exceeding 500mm deep for placing and removing formwork to walls etc, 300mm away from excavated face	m2	204		
	<u>Extra over all excavations for carting away</u>				
D	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor (LI)	m3	56		
	<u>Keeping works free of water</u>				
E	Allow for the baling, pumping or otherwise in keeping the works free from all water or mud			Item	
	<u>Risk of collapse of excavations</u>				
F	Sides of trench and hole excavations not exceeding 1,5m deep	m2	204		
	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>				
G	Backfilling to trenches (LI)	m3	48		
	<u>Compaction of ground surfaces</u>				
H	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (LI)	m2	325		
Carried to Collection					R
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WEED KILLERS, INSECTICIDES, ETC

Approved brand of anti-termite soil poison applied by a
Registered Pest Control company and guaranteed
against termite infestation for ten years

A	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (LI)	m2	325
B	Sides and bottom of trenches and holes (LI)	m2	363

TESTS

Prescribed tests to determine degree of compaction or
other properties of ground or filling

C	"Modified AASHTO Density" test	No	8
D	"Natural California Bearing Ratio" test	No	8
E	"Field Density" test, including "Optimum Moisture Content" test (four readings per test)	No	8

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Earthworks

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Earthworks

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Earthworks

Part C2: Pricing Data

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UNREINFORCED CONCRETE15MPa/19mm concrete

A	Blinding under footings and bases (LI)	m3	8
---	--	----	---

REINFORCED CONCRETEConcrete 30 MPa/19mm stone in:

B	Strip footing (LI)	m3	80
---	--------------------	----	----

C	Surface beds and thickenings (LI)	m3	16
---	-----------------------------------	----	----

D	Aprons including thickenings (LI)	m3	5
---	-----------------------------------	----	---

E	Steps, urinal steps, cupboard platforms, etc (LI)	m3	2
---	---	----	---

TEST BLOCKS

F	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	10
---	--	----	----

CONCRETE SUNDRIESFinishing top of surfaces of concrete with a wood float finish

G	Pavings, surface beds, slabs, etc to falls (LI)	m2	50
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NOTE: All items in this section shall be deemed to fall into Work Group 111 for Haylett formula purposes

ROUGH FORMWORK (DEGREE OF ACCURACY II)Rough formwork to sides

H	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	50
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Carried to Collection

R

Section No.2- Single Quarters

Bill No. 3

Concrete, Formwork and Reinforcement

Part C2: Pricing Data

DRD01NWER003

MOVEMENT JOINTS ETCExpansion joints with 10mm soft board between vertical concrete and brick surfaces

A	Not exceeding 300mm high to edges of surface beds (LI)	m	66
---	--	---	----

Saw cut joints

B	6 x 25mm Saw cut joints on top of concrete	m	66
---	--	---	----

REINFORCEMENT (PROVISIONAL)Steel rod reinforcement to structural concrete work
(Note: the following item has not been separated into various diameters and this principle will apply when remeasuring the item)

C	Various diameters of steel reinforcement	t	10
---	--	---	----

Fabric reinforcement

D	Type 245 fabric reinforcement in concrete surface beds etc (LI)	m2	325
---	---	----	-----

Carried to Collection

R

Section No.2- Single Quarters

Bill No. 3

Concrete, Formwork and Reinforcement

Part C2: Pricing Data

DRD01NWER003

Carried to Collection

Section No.2- Single Quarters
Bill No. 4
Masonry
Part C2: Pricing Data
DRD01NWER003

BRICKWORK**FOUNDATIONS (PROVISIONAL)**Brickwork of NFP bricks in class II mortar

A	Piers (LI)	m3	1
B	One brick walls (LI)	m2	45

2,5mm Brickwork reinforcement

C	75mm Wide reinforcement built in horizontally	m	534
---	---	---	-----

SUPERSTRUCTUREBrickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar

D	Piers (LI)	m3	7
E	Half brick walls (LI)	m2	459
F	Half brick walls in beamfilling (LI)	m2	30
G	One brick walls (LI)	m2	351

BRICKWORK SUNDRIESBrickwork reinforcement

H	75mm Wide reinforcement built in horizontally (LI)	m	1 800
I	150mm Wide reinforcement built in horizontally (LI)	m	1 376

Prestressed fabricated concrete lintels including necessary temporary supports

J	110 x 75mm Lintels in lengths not exceeding 3m (LI)	m	128
---	---	---	-----

Turning pieces to lintels etc

K	230mm Wide turning pieces (LI)	m	73
---	--------------------------------	---	----

Carried to Collection

R

Section No.2- Single Quarters

Bill No. 4

Masonry

Part C2: Pricing Data

DRD01NWER003

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Bill No. 4

Masonry

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Section No.2- Single Quarters
Bill No. 4
Masonry
Part C2: Pricing Data
DRD01NWER003

JOINT SEALANTS, ETC

"Approved" silicone sealing compound including backing
cord, bond breaker, primer, etc

A	10 x 30mm In expansion joints in floors including raking out expansion joint filler as necessary	m	66
---	---	---	----

Carried to Collection

R

Section No.2- Single Quarters
Bill No. 5
Waterproofing
Part C2: Pricing Data
DRD01NWER003

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ROOFS ETC**Sundries**

A	Two coats creosote on sawn timbers	m2	78
---	------------------------------------	----	----

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION ETC****SUPPLEMENTARY PREAMBLES**

Trusses are at maximum 900mm centres

Roof coverings are on purlins

Ceilings are plasterboard on 38 x 38mm branderling

References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings

Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences

Sawn softwood grade 6 S.A Pine

B	Roof construction to hipped roof, 426m2 overall on plan, including trusses, jack rafters, permanent bracing and 50 x 75mm purlins at 600mm centres for roof covering etc.	Item	
---	---	------	--

EAVES, VERGES, ETC**Medium density plain fibre-cement fascias and barge boards**

C	200 x 12mm Fascias and barge boards, including galvanised steel profile joiners	m	130
---	---	---	-----

TIMBER DOORS, WINDOWS, ETC**Wrought meranti doors hung to steel frames**

D	40mm Solid Meranti Timber Raised & Fielded Panels 813 x 2032mm high (D1 External)	No	9
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Carried to Collection

R

Section No.2- Single Quarters

Bill No. 7

Carpentry and Joinery

Part C2: Pricing Data

DRD01NWER003

Carried to Collection

Section No.2- Single Quarters
Bill No. 7
Carpentry and Joinery
Part C2: Pricing Data
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Bill No. 7

Carpentry and Joinery

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Section No.2- Single Quarters
Bill No. 7
Carpentry and Joinery
Part C2: Pricing Data
DRD01NWER003

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SCREWED UP CEILINGS

6,4mm Gypsum plasterboard with taped joints and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer

A	Ceilings including fixed with screws to 38 x 38mm sawn softwood bradering at 400mm centres	m2	360
---	--	----	-----

B	Extra over ceilings for trapdoor size 600 x 600mm in clear including all sawn and wrot pine framing, etc covered with ceiling board and fitted flush with ceiling.	No	9
---	--	----	---

Gypsum plasterboard cornices

C	75mm Coved cornices	m	466
---	---------------------	---	-----

Carried to Collection

R

Section No.2- Single Quarters

Bill No. 8

Ceilings, Partitions and Access Flooring

Part C2: Pricing Data

DRD01NWER003

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Section No.2- Single Quarters
Bill No. 9
Ironmongery
Part C2: Pricing Data
DRD01NWER003

Bill No. 9

Ironmongery

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Section No.2- Single Quarters
Bill No. 9
Ironmongery
Part C2: Pricing Data
DRD01NWER003

Galvanised mild steel security gates to steel door frames

- A Single gate 813 x 2125mm high of 50 x 50 x 3mm angle section outer frame and 60 x 40 x 2mm mild steel square tube welded to outer frame, and 40 x 6mm horizontal middle rails, filled in with 19mm diameter steel rods at 110mm centers, and fitted with a pair of suitable hinges welded to post (SG1)

No

9

ALUMINIUM SHOPFRONTS

Anodized aluminium top hung window units complete with subframes, ironmongery, 4mm clear glass, sealing, etc and fixing to brickwork or concrete including factory fitted burglar bars, complete as per architect's drawings

- B Purpose made window, 1200 x 1500mm high (W1)

No

9

- C Purpose made window, 900 x 900mm high (W2)

No

9

- D Purpose made window, 1500 x 900mm high (W03)

No

9

- E Purposed made window, 800 x 900mm high (W04)

No

9

Carried to Collection

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Section No.2- Single Quarters

Bill No. 10

Metalwork

Part C2: Pricing Data

DRD01NWER003

Bill No. 10

Metalwork

COLLECTION

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Section No.2- Single Quarters
Bill No. 10
Metalwork
Part C2: Pricing Data
DRD01NWER003

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Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated

Curing, seasoning and protection

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

Colour

Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour

Labour intensive methods

The contractor will be required to use labour intensive methods for the items which have been marked with the letters "LI" as described in the Scope of Work

Carried to Collection

Section No.2- Single Quarters

Bill No. 11

Plastering

Part C2: Pricing Data

DRD01NWER003

R

GRANOLITHICUntinted granolithic, on concrete

A	Untinted Non slip 35mm Thick on floors and landings (LI)	m2	88
---	--	----	----

SCREEDCement screed on concrete

B	30mm Thick on floors and landings (LI)	m2	272
---	--	----	-----

INTERNAL PLASTERCement plaster on brickwork

C	On walls (LI)	m2	1 350
---	---------------	----	-------

D	On narrow widths (LI)	m2	36
---	-----------------------	----	----

Cement plaster rendering coat with gypsum skim plaster finishing coat, on plasterboard

E	On ceilings	m2	360
---	-------------	----	-----

Carried to Collection

R

Section No.2- Single Quarters

Bill No. 11

Plastering

Part C2: Pricing Data

DRD01NWER003

A	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm internal diameter	No	9		
<u>FLOOR TILING</u>					
	<u>600 x 600 x 8mm Dover Grey EcoTec Rectified matt hard body ceramic floor fixed with adhesive to screed (screed elsewhere) and flush pointed with waterproof grout</u>				
B	On floors and landings	m2	49		
	<u>600 x 600 x 8mm Star Grey EcoTec Rectified matt hard body tile fixed with adhesive to screed (screed elsewhere) and flush pointed with waterproof grout</u>				
C	On floors and landings	m2	110		
D	Skirting 150mm high of 330mm skirting tiles	m	33		
	<u>600 x 600 x 8mm Idaho Grey matt ceramic floor tile fixed with adhesive to screed (screed elsewhere) and flush pointed with waterproof grout</u>				
E	On floors and landings	m2	113		
F	Skirting 150mm high of 330mm skirting tiles	m	34		
<u>SUNDRIES</u>					
	<u>Aluminium dividing strips</u>				
G	10 x 15mm Flat section dividing strips between tiles	m	15		
				R	
Carried to Collection					
Section No.2- Single Quarters					
Bill No. 12					
Tiling					
Part C2: Pricing Data					
DRD01NWER003					

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High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings

"Polycop" polypropylene pipes

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

Copper pipes

Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level

Carried to Collection

R

Section No.2- Single Quarters

Bill No. 13

Plumbing and Drainage

Part C2: Pricing Data

DRD01NWER003

Paper wrapping to pipes

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

Disinfection of water pipework

Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)

"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 20% overlaps

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc

Prices for wrapping of pipes shall include for all work as described to couplings in the length

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following:

SABS 1200L : Medium-pressure pipelines

SABS 1200LD : Sewers

SABS 1200LE : Stormwater drainage

Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes)

Unless otherwise described bedding of rigid pipes shall be Class B bedding

Carried to Collection

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Section No.2- Single Quarters

Bill No. 13

Plumbing and Drainage

Part C2: Pricing Data

DRD01NWER003

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

Labour intensive methods

The contractor will be required to use labour intensive methods for the items which have been marked with the letters "LI" as described in the Scope of Work

SANITARY FITTINGSStainless steel

A Franke trendline 712 kitchen sink dcb 1500mm x 535mm. the trendline drop-on sink

No

9

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Section No.2- Single Quarters

Bill No. 13

Plumbing and Drainage

Part C2: Pricing Data

DRD01NWER003

Sanitary fittings

A	Bouquet White wall mounted basin & pedestal set - 810 x 415 x 495mm with two tapholes, including integrated overflow and chainstay hole bolted to wall with two 10mm bolts and sealed with silicone sealant where basin meets wall or similar approved	No	9
B	Betta Iqwa white dual top flush toilet suite - close coupled 90° outlet wall hung open rim pan (be1wh020) and matching 6 litre pushbutton top dual flush back inlet complete with lid, fitment and with bolt-through-the-wall bracket	No	9

WASTE UNIONS ETC

C	38mm Basin waste union	No	9
D	38mm Bath or sink waste union	No	18

TRAPS ETCuPVC

E	40mm uPVCr double bowl sink reseal bottle shaped or "S" trap combination	No	9
F	100 x 100mm Chrome shower waste	No	9

TAPS, VALVES, ETC

G	15mm Angle regulating valve and flexible connection pipe	No	9
H	Amalfi Umgeni basin mixer: chrome finish	No	9
I	Amalfi Umgeni bath shower mixer	No	9
J	TD 1 function chrome shower rose	No	9
K	15mm Chrome Classic Shower Arm - 240mm	No	9
L	15mm Sink mixer	No	9
M	Pressure control valve with vacuum breaker	No	9

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Plumbing and Drainage

Part C2: Pricing Data

DRD01NWER003

SANITARY PLUMBINGuPVC soil and vent pipes

A	50mm Pipes	m	18
B	50mm Pipes chased into brickwork	m	27
C	110mm Pipes	m	27

Extra over uPVC soil and vent pipes for fittings

D	50mm End cap	No	9
E	50mm BSP adaptor	No	9
F	50mm Reducer	No	9
G	50mm Junction	No	9
H	50mm Bend	No	9
I	50mm Access bend	No	9
J	110mm Bend	No	18
K	110mm Pan connector	No	9
L	110mm Junction	No	18
M	110mm Reducing junction	No	9
N	110mm Access junction	No	9
O	110mm Vent valve	No	9

WATER SUPPLIESClass 0 copper pipes with capillary couplings

P	15mm Pipes	m	72
---	------------	---	----

Extra over Class 0 copper pipes for capillary fittings

Q	15mm Fittings	No	72
---	---------------	----	----

Carried to Collection

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Section No.2- Single Quarters

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Plumbing and Drainage

Part C2: Pricing Data

DRD01NWER003

Extra over Class 0 copper pipes for brass compression fittings

A	15mm Fittings	No	99
---	---------------	----	----

ELECTRIC WATER GEYSERS

B	150 Litre horizontal wall mounted electric geyser	No	9
---	---	----	---

Carried to Collection

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Plumbing and Drainage

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Plumbing and Drainage

Part C2: Pricing Data

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ON FIBRE-CEMENT BOARD SURFACES

One coat alkali resistant primer and three coats PVA emulsion paint for exterior use

A	Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips	m	130
---	---	---	-----

ON METAL SURFACES

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

B	Door frames	m2	36
C	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	33

ON WOOD SURFACES

One coat alkyd based universal undercoat and one coat superior quality universal enamel paint, on work in sound condition

D	Doors	m2	66
E	Doors	m2	30

Carried to Collection

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Section No.2- Single Quarters

Bill No. 15

Paintwork

Part C2: Pricing Data

DRD01NWER003

Bill No. 15

Paintwork

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Bill No. 15
Paintwork
Part C2: Pricing Data
DRD01NWER003

Item No	Quantity	Rate	Amount
<u>BILL NO. 16</u>			
<u>PROVISIONAL SUMS</u>			
<u>NOTES:</u>			
<p>1. Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:-</p> <ul style="list-style-type: none"> * Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted, * Schedule the times of availability of the hoisting equipment for each Sub-Contractor, * Provide all necessary personnel to operate the hoisting equipment, <p>all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities provided by the Contractor</p> <p>2. Under no circumstances may any Provisional Amount, etc. be extended at an amount lower than the amount given in this Bill</p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p> <p>All provisional sums cover supply of material and equipment and installation. provisional sums are nett and do not include builder's discount (excluding settlement discount) and Value Added Tax but the Tenderer may allow under "Profit" items any profit he considers necessary</p>			
Carried to Collection			R
Section No.2- Single Quarters Bill No. 16 Provisional Sum Part C2: Pricing Data DRD01NWER003			

KITCHEN EQUIPMENT

A Provide the amount of R 80,000.00 (Eighty Thousand Rand)
for Kitchen Equipment

Item 80 000.00

B Profit

Item

C Allow for general attendance

Item

CARPENTRY & JOINERY

D Provide the amount of R 100,000.00 (One Hundred Thousand
Rand) for carpentry and joinery

Item 100 000.00

E Profit

Item

F Allow for general attendance

Item

Carried to Collection

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Section No.2- Single Quarters

Bill No. 16

Provisional Sum

Part C2: Pricing Data

DRD01NWER003

Section No.2- Single Quarters
Part C2: Pricing Data
DRD01NWER003

Testing

Prices for filling are to include for all necessary density tests in accordance with SABS 1200D

Labour intensive methods

The contractor will be required to use labour intensive methods for the items which have been marked with the letters "LI" as described in the Scope of Work

SITE CLEARANCESite clearance

- | | | | |
|---|--|----|-----|
| A | Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth | m2 | 161 |
|---|--|----|-----|

REMOVAL OF TREES ETC

Cutting down and removing, grubbing up roots, filling in holes and compacting to 95% Mod AASHTO density

- | | | | |
|---|---|----|---|
| B | Tree exceeding 500mm and not exceeding 1000mm girth | No | 2 |
| C | Tree exceeding 500mm and not exceeding 1000mm girth | No | 2 |

BULK EXCAVATION, FILLING, ETCDigging up topsoil

- | | | | |
|---|---|----|-----|
| D | Digging up topsoil to an average depth of 100mm and preserving for use as filling | m2 | 107 |
|---|---|----|-----|

Open face excavation in earth

- | | | | |
|---|----------------------|----|-----|
| E | Open face excavation | m3 | 144 |
|---|----------------------|----|-----|

Extra over bulk excavation in earth for excavation in

- | | | | |
|---|-----------|----|----|
| F | Soft rock | m3 | 14 |
| G | Hard rock | m3 | 7 |

Carried to Collection

R

Section No.3 - Farm Manager's House

Bill No. 1

Earthworks

Part C2: Pricing Data

DRD01NWER003

R

R

Approved brand of anti-termite soil poison applied by a
Registered Pest Control company and guaranteed
against termite infestation for ten years

A	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (LI)	m2	107
B	Sides and bottom of trenches and holes (LI)	m2	114

TESTS

Prescribed tests to determine degree of compaction or
other properties of ground or filling

C	"Modified AASHTO Density" test	No	4
D	"Natural California Bearing Ratio" test	No	4
E	"Field Density" test, including "Optimum Moisture Content" test (four readings per test)	No	4

Carried to Collection

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Section No.3 - Farm Manager's House

Bill No. 1

Earthworks

Part C2: Pricing Data

DRD01NWER003

NOTE: All items in this section shall be deemed to fall into Work Group 110 for Haylett formula purposes

UNREINFORCED CONCRETE

15MPa/19mm concrete

A	Blinning under footings and bases (LI)	m3	2
---	--	----	---

REINFORCED CONCRETE

Concrete 30 MPa/19mm stone in:

B	Strip footing (LI)	m3	12
---	--------------------	----	----

C	Surface beds and thickenings (LI)	m3	2
---	-----------------------------------	----	---

D	Aprons including thickenings (LI)	m3	1
---	-----------------------------------	----	---

E	Steps, urinal steps, cupboard platforms, etc (LI)	m3	2
---	---	----	---

TEST BLOCKS

F	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4
---	--	----	---

CONCRETE SUNDRIES

Finishing top of surfaces of concrete with a wood float finish

G	Pavings, surface beds, slabs, etc to falls (LI)	m2	15
---	---	----	----

NOTE: All items in this section shall be deemed to fall into Work Group 111 for Haylett formula purposes

ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

H	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	8
---	--	---	---

MOVEMENT JOINTS ETC

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Section No.3 - Farm Manager's House
Bill No. 2
Concrete, Formwork and Reinforcement
Part C2: Pricing Data
DRD01NWER003

	<u>Expansion joints with 10mm soft board between vertical concrete and brick surfaces</u>				
A	Not exceeding 300mm high to edges of surface beds (LI)	m	25		
	<u>Saw cut joints</u>				
B	6 x 25mm Saw cut joints on top of concrete	m	30		
	NOTE: All items in this section shall be deemed to fall into Work Group 114 for Haylett formula purposes				
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	Steel rod reinforcement to structural concrete work (Note: the following item has not been separated into various diameters and this principle will apply when remeasuring the item)				
C	Various diameters of steel reinforcement	t	2		
	<u>Fabric reinforcement</u>				
D	Type 245 fabric reinforcement in concrete surface beds etc (LI)	m2	107		
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Section No.3 - Farm Manager's House					
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Concrete, Formwork and Reinforcement					
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Bill No. 2

Concrete, Formwork and Reinforcement

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Bill No. 2
Concrete, Formwork and Reinforcement
Part C2: Pricing Data
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BRICKWORK**FOUNDATIONS (PROVISIONAL)**Brickwork of NFP bricks in class II mortar

A	Piers (LI)	m3	1
B	One brick walls (LI)	m2	32

2,5mm Brickwork reinforcement

C	75mm Wide reinforcement built in horizontally	m	376
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SUPERSTRUCTUREBrickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar

D	Piers (LI)	m3	1
E	Half brick walls (LI)	m2	84
F	Half brick walls in beamfilling (LI)	m2	11
G	One brick walls (LI)	m2	127

BRICKWORK SUNDRIESBrickwork reinforcement

H	75mm Wide reinforcement built in horizontally (LI)	m	329
I	150mm Wide reinforcement built in horizontally (LI)	m	499

Prestressed fabricated concrete lintels including necessary temporary supports

J	110 x 75mm Lintels in lengths not exceeding 3m (LI)	m	31
---	---	---	----

Turning pieces to lintels etc

K	230mm Wide turning pieces (LI)	m	14
---	--------------------------------	---	----

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Section No.3 - Farm Manager's House

Bill No. 3

Masonry

Part C2: Pricing Data

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Bill No. 3

Masonry

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Bill No. 3

Masonry

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ROOFS ETC**Sundries**

A	Two coats creosote on sawn timbers	m2	27
---	------------------------------------	----	----

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION ETC****SUPPLEMENTARY PREAMBLES**

Trusses are at maximum 900mm centres

Roof coverings are on purlins

Ceilings are plasterboard on 38 x 38mm branderling

References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings

Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences

Sawn softwood grade 6 S.A Pine

B	Roof construction to hipped roof, 109m2 overall on plan, including trusses, jack rafters, permanent bracing and 50 x 75mm purlins at 600mm centres for roof covering etc.	Item	
---	---	------	--

EAVES, VERGES, ETC**Medium density plain fibre-cement fascias and barge boards**

C	200 x 12mm Fascias and barge boards, including galvanised steel profile joiners	m	45
---	---	---	----

TIMBER DOORS, WINDOWS, ETC**Wrought meranti doors hung to steel frames**

D	40mm Solid Meranti Timber Raised & Fielded Panels 813 x 2032mm high (D1 External)	No	2
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Section No.3 - Farm Manager's House

Bill No. 6

Carpentry and Joinery

Part C2: Pricing Data

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Bill No. 6
Carpentry and Joinery
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Bill No. 6

Carpentry and Joinery

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Bill No. 6

Carpentry and Joinery

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SCREWED UP CEILINGS

6,4mm Gypsum plasterboard with taped joints and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer

A	Ceilings including fixed with screws to 38 x 38mm sawn softwood bradering at 400mm centres	m2	90		
B	Extra over ceilings for trapdoor size 600 x 600mm in clear including all sawn and wrot pine framing, etc covered with ceiling board and fitted flush with ceiling.	No	2		
	<u>Gypsum plasterboard cornices</u>				
C	75mm Coved cornices	m	105		

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Section No.3 - Farm Manager's House
 Bill No. 7
 Ceilings, Partitions and Access Flooring
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Bill No. 7

Ceilings, Partitions and Access Flooring

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Section No.3 - Farm Manager's House
Bill No. 7
Ceilings, Partitions and Access Flooring
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SUNDRIES

A Nickel plated door stop, plugged

No

7

BATHROOM FITTINGS

B Chrome plated toilet roll holder

No

1

C Chrome plated basket soap dish

No

2

D Chrome plated towel ring

No

1

E 900mm Chrome plated towel rail, plugged

No

2

Shower enclosureF Corner entry Shower Enclosure 885 x 885 x 1850mm with
5mm tempered glass doors and 4mm tempered glass panel
with gliding system

No

1

LETTERS, NAMEPLATES, ETC

G 100mm High anodised aluminium letter or numeral

No

2

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Section No.3 - Farm Manager's House

Bill No. 8

Ironmongery

Part C2: Pricing Data

DRD01NWER003

Bill No. 8

Ironmongery

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Ironmongery
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WELDED SCREENS, GATES, ETCGalvanised mild steel security gates to steel door frames

- A Single gate 813 x 2125mm high of 50 x 50 x 3mm angle section outer frame and 60 x 40 x 2mm mild steel square tube welded to outer frame, and 40 x 6m horizontal middle rails, filled in with 19mm diameter steel rods at 110mm centers, and fitted with a pair of suitable hinges welded to post (SG1)

No

2

ALUMINIUM SHOPFRONTS

NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 149 for contract price adjustment purposes

Anodized aluminium top hung window units complete with subframes, ironmongery, 4mm clear glass, sealing, etc and fixing to brickwork or concrete including factory fitted burglar bars, complete as per architect's drawings

- B Purpose made window, 1200 x 1500mm high (W1)

No

3

- C Purpose made window, 900 x 900mm high (W2)

No

1

- D Purpose made window, 900 x 1800mm high (W03)

No

1

- E Purposed made window, 1500 x 900mm high (W04)

No

3

- F Purposed made window, 1800 x 600mm high (W08)

No

2

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Section No.3 - Farm Manager's House

Bill No. 9

Metalwork

Part C2: Pricing Data

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Bill No. 9

Metalwork

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Metalwork
Part C2: Pricing Data
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Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated

Curing, seasoning and protection

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

Colour

Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour

Labour intensive methods

The contractor will be required to use labour intensive methods for the items which have been marked with the letters "LI" as described in the Scope of Work

Carried to Collection

Section No.3 - Farm Manager's House

Bill No. 10

Plastering

Part C2: Pricing Data

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GRANOLITHICUntinted granolithic, on concrete

A	Untinted Non slip 35mm Thick on floors and landings (LI)	m2	22
---	--	----	----

SCREEDCement screed on concrete

B	30mm Thick on floors and landings (LI)	m2	90
---	--	----	----

INTERNAL PLASTERCement plaster on brickwork

C	On walls (LI)	m2	292
---	---------------	----	-----

D	On narrow widths (LI)	m2	29
---	-----------------------	----	----

Cement plaster rendering coat with gypsum skim plaster finishing coat, on plasterboard

E	On ceilings	m2	90
---	-------------	----	----

EXTERNAL PLASTERCement plaster on brickwork

F	On walls (LI)	m2	127
---	---------------	----	-----

G	On narrow widths (LI)	m2	13
---	-----------------------	----	----

Carried to Collection

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Section No.3 - Farm Manager's House

Bill No. 10

Plastering

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Plastering

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Plastering
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A	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm internal diameter	No	4		
<u>FLOOR TILING</u>					
	<u>600 x 600 x 8mm Dover Grey EcoTec Rectified matt hard body ceramic floor fixed with adhesive to screed (screed elsewhere) and flush pointed with waterproof grout</u>				
B	On floors and landings	m2	25		
	<u>600 x 600 x 8mm Star Grey EcoTec Rectified matt hard body tile fixed with adhesive to screed (screed elsewhere) and flush pointed with waterproof grout</u>				
C	On floors and landings	m2	34		
D	Skirting 150mm high of 330mm skirting tiles	m	27		
	<u>600 x 600 x 8mm Idaho Grey matt ceramic floor tile fixed with adhesive to screed (screed elsewhere) and flush pointed with waterproof grout</u>				
E	On floors and landings	m2	9		
F	Skirting 150mm high of 330mm skirting tiles	m	7		
<u>SUNDRIES</u>					
	<u>Aluminium dividing strips</u>				
G	10 x 15mm Flat section dividing strips between tiles	m	4		
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Bill No. 11					
Tiling					
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Bill No. 11

Tiling

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Bill No. 11
Tiling
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High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings

"Polycop" polypropylene pipes

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

Copper pipes

Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level

Carried to Collection

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Bill No. 12

Plumbing and Drainage

Part C2: Pricing Data

DRD01NWER003

Paper wrapping to pipes

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

Disinfection of water pipework

Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)

"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 20% overlaps

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc

Prices for wrapping of pipes shall include for all work as described to couplings in the length

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following:

SABS 1200L : Medium-pressure pipelines

SABS 1200LD : Sewers

SABS 1200LE : Stormwater drainage

Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes)

Unless otherwise described bedding of rigid pipes shall be Class B bedding

Carried to Collection

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Section No.3 - Farm Manager's House

Bill No. 12

Plumbing and Drainage

Part C2: Pricing Data

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General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

Labour intensive methods

The contractor will be required to use labour intensive methods for the items which have been marked with the letters "LI" as described in the Scope of Work

SANITARY FITTINGSStainless steel

A Franke trendline 712 kitchen sink dcb 1500mm x 535mm. the trendline drop-on sink

No

1

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Plumbing and Drainage

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A	Franke wash through wall mounted brackets not required finish: stainless steel manufactured from grade 430(17/10) stainless steel suitable for lights purpose applications supplied with fixing lugs for wall mounting number of bowls: single waste fitting type: 38mm waste with plastic plug	No	1		
	<u>Sanitary fittings</u>				
B	Bouquet White wall mounted basin & pedestal set - 810 x 415 x 495mm with two tapholes, including integrated overflow and chainstay hole bolted to wall with two 10mm bolts and sealed with silicone sealant where basin meets wall or similar approved	No	1		
C	Betta Iqwa white dual top flush toilet suite - close coupled 90° outlet wall hung open rim pan (be1wh020) and matching 6 litre pushbutton top dual flush back inlet complete with lid, fitment and with bolt-through-thewall bracket	No	1		
D	Tammy White Built-in Straight Bath without Handles - 1700 x 700mm	No	1		
	<u>WASTE UNIONS ETC</u>				
E	38mm Basin waste union	No	1		
F	38mm Bath or sink waste union	No	2		
	<u>TRAPS ETC</u>				
	<u>uPVC</u>				
G	40mm uPVCr double bowl sink reseal bottle shaped or "S" trap combination	No	1		
H	100 x 100mm Chrome shower waste	No	1		
	<u>TAPS, VALVES, ETC</u>				
I	15mm Chromium plated basin mixer	No	1		
J	15mm Angle regulating valve and flexible connection pipe	No	2		
K	15mm wall mounted brass bib-tap	No	2		
L	15mm Chromium plated sink mixer	No	1		
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WATER SUPPLIESClass 0 copper pipes with capillary couplings

A	15mm Pipes	m	6
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B	15mm Pipes chased into brickwork including brown paper lagging	m	6
---	--	---	---

Extra over Class 0 copper pipes for capillary fittings

C	15mm Fittings	No	6
---	---------------	----	---

Extra over Class 0 copper pipes for brass compression fittings

D	15mm Fittings	No	6
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ELECTRIC WATER GEYSERS

E	150 Litre horizontal wall mounted electric geyser	No	1
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Plumbing and Drainage

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Plumbing and Drainage

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ON FIBRE-CEMENT BOARD SURFACES

One coat alkali resistant primer and three coats PVA emulsion paint for exterior use

A	Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips	m	45
---	---	---	----

ON METAL SURFACES

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

B	Door frames	m2	10
C	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	7

ON WOOD SURFACES

One coat alkyd based universal undercoat and one coat superior quality universal enamel paint, on work in sound condition

D	Doors	m2	18
E	Doors	m2	7

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Section No.3 - Farm Manager's House

Bill No. 14

Paintwork

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Bill No. 14

Paintwork

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Bill No. 14
Paintwork
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 15</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>NOTES:</u>			
	<p>1. Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:-</p> <ul style="list-style-type: none"> * Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted, * Schedule the times of availability of the hoisting equipment for each Sub-Contractor, * Provide all necessary personnel to operate the hoisting equipment, <p>all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities provided by the Contractor</p> <p>2. Under no circumstances may any Provisional Amount, etc. be extended at an amount lower than the amount given in this Bill</p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p> <p>All provisional sums cover supply of material and equipment and installation. provisional sums are nett and do not include builder's discount (excluding settlement discount) and Value Added Tax but the Tenderer may allow under "Profit" items any profit he considers necessary</p>			
	Carried to Collection		R	
	Section No.3 - Farm Manager's House			
	Bill No. 15			
	Provisional Sum			
	Part C2: Pricing Data			
	DRD01NWER003			

KITCHEN EQUIPMENT

A Provide the amount of R 10,000.00 (Ten Thousand Rand) for
Kitchen Equipment

Item 10 000 00

B Profit

Item

C Allow for general attendance

Item

CARPENTRY & JOINERY

D Provide the amount of R 20,000.00 (Twenty Thousand Rand)
for carpentry and joinery

Item 20 000 00

E Profit

Item

F Allow for general attendance

Item

Carried to Collection

R

Section No.3 - Farm Manager's House

Bill No. 15

Provisional Sum

Part C2: Pricing Data

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Item No	Quantity	Rate	Amount
<u>SECTION NO.4</u>			
<u>BILL NO. 1</u>			
<u>PROVISIONAL SUMS FOR THE MAIN CONTRACT / NOMINATED OR SELECTED SUBCONTRACT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
All prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned			
<u>Profit</u>			
Where stated, the contractor may allow for profit if required			
<u>General attendance on selected subcontractors</u>			
The item "Attendance" which follows each provisional sum for selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the selected subcontractors, the following:			
General attendance on selected subcontractors			
1. The services as set out in clause B9 of the Preliminaries			
2. Hoisting of the selected subcontractor's material in batches that can be handled by the contractor's hoist or crane during normal working hours			
3. Making good in all trades and cleaning down and removal of rubbish on completion			
<u>Contingency sums</u>			
Work for which contingency sums are allowed will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required			
Carried to Collection			R
Section No.4 - Provisional Sums			
Bill No. 1			
Provisional Sums			
Part C2: Pricing Data			
DRD01NWER003			

Preliminaries

The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Sums"

General

Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement building contract and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances

PROVISIONAL SUMS**COMMUNITY LIAISON OFFICER (CLO)**

- A Provide the sum of R60 000.00 (Sixty Thousand Rand) for the Community Liaison Officer (CLO) salary, including cell phone allowance

Item 60 000.00

- B Allow for profit

Item

- C Allow for attendance

Item

Carried to Collection

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Section No.4 - Provisional Sums

Bill No. 1

Provisional Sums

Part C2: Pricing Data

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Bill No. 1

Provisional Sums

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Section No.4 - Provisional Sums

Bill No. 1

Provisional Sums

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3	Section No.3 - Farm Manager's House	140	
4	Section No.4 - Provisional Sums	143	
	Sub Total	R	
	<u>ADD THE FOLLOWING ANNEXURES</u>		
	Electrical Installations	Item	
	<u>CONTINGENCIES</u>		
	Provide the sum of R500 000.00 (Five Hundred Thousand Rands) for contingencies to be expended as directed by IDT Representatives in whole or in part if not required	Item	
	Sub-total (B)	R	
	Add Value Added Tax 15% (fifteen percent)	R	
	Carried to Form of Offer and Acceptance	R	
	Part C2: Pricing Data DRD01NWER003		

BILL PREAMBLES & BILL OF QUANTITIES**GENERAL NOTES**

- 1 This Bill of Quantities forms part of, and must be read in conjunction with the specification
- 2 The quantities given in the Bill for cables, cable markers, earth wire laid with cables, overhead conductors, overhead earth wires and excavations cannot be regarded as exact and are subject to measurement on site after completion of the service and adjustments will be made according to the unit rates given in the bill.

In the event of discrepancies between the drawings, specifications and Bill of Quantities, the Department shall decide whether the work as executed shall be remeasured on site or whether re-measurement shall be effected from the working drawings only.

NOTE:**Checking of Cable Lengths**

Notwithstanding the fact that the lengths of cables as given in the Bill of Quantities have been measured from scaled drawings, the contractor shall check such lengths on site before ordering the cable as he / she will not be paid for excess cables after the completion of the service. Any allowance for off-cuts shall be made in the unit rates. The final measurements shall be based on the nett route length of the cables and overhead lines concerned.

Checking of quantities for other materials

Notwithstanding the fact that the quantities for cables and accessories given in the Bill of Quantities have been measured from drawings, the contractor shall check such lengths on site before ordering the cable as he/she will not be paid for excess quantities after the completion of the service. Any ambiguous or dubious wording or quantities must be cleared with the responsible Engineer before work is started. Wrong interpretation of the specification and/or drawings and Bill of Quantities, resulting in alterations and/or additional costs, is solely the responsibility of the contractor.

- 3 Where alternative prices for the switchgear of different manufacture are quoted the lowest alternative price for switchgear as per the specification must be quoted against the relevant item in the Bill of Quantities. The remaining alternative prices must be furnished separately.
- 4 The unit prices quoted in the Bill of Quantities must include for such small installation materials as are required for the complete installation in accordance with the specification.
- 5 All equipment, components and material shall be new, unused and best quality and shall comply with the relevant current specifications of the SABS, SANS and as stated in this document, wherever possible, be of South African manufacture.
- 6 No alteration, erasure or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made, it will not be recognised but the original wording of the Bill of Quantities will be adhered to.
- 7 The Engineer will check the completed Bill of Quantities and reserves the right to adjust any individual price and to rectify any discrepancy whilst the total tender price as quoted remains unaltered.
- 8 Electrical materials associated with the external reticulation, for example termination accessories and wiring accessories, will not be re-measurable and the tenderer must therefore allow for the supply of all necessary accessories of materials for the successful execution and completion of the installation.
- 9 The unit rate for each item in the Bill of Quantities shall include for all materials, labour, profit, transport, etc., everything necessary for the execution and complete installation of the work in accordance with the description of the works.
- 10 The Bills of Quantities shall not be used for ordering purposes. The contractor shall check the lengths of cables, overhead conductors on site before ordering any of these materials. Any allowance for off-cuts of cables shall be made in the unit rates.
- 11 The rates shall exclude Value-Added Tax (VAT) and the total carried over to the final summary.
- 12 The contractor is required to label all kiosks and mini-substations, supply and install all danger warning signs etc and all costs shall be deemed to have been provided for and included in the unit rates and sum amounts tendered for the items scheduled in the Bill of Quantities and separate additional payment will not be made.
- 13 **Black ink shall be used for pricing the document, any other prices marked in other colours or pencil shall not be considered for the total price of the bill.**

ELECTRICAL INSTALLATIONS

MELTON RESEARCH FARM
SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE

INDEPENDENT DEVELOPMENT TRUST

Item	Description	Unit	Qty	Rate	Amount
1	<u>BILL 1: RETICULATION AND DISTRIBUTION BOARDS</u>				
1.1	Distribution Boards				
	Distribution boards complete with all MCBs, switchgear, accessories, sheet metal frames, sub-frames, busbars, terminals, wiring, conduit terminations, labelling, fixtures and fittings as specified, with all equipment fitted and equipped in factory all strictly as per schematic diagram.				
	<i>(Please note that the distribution board's shop drawing should be submitted to the Engineer for approval prior to manufacture).</i>				
	Kiosk 1				
1.1.1	Supply	No.	1		
1.1.2	Install	No.	1		
	Kiosk 2				
1.1.3	Supply	No.	1		
1.1.4	Install	No.	1		
	Typical DB-Unit				
1.1.5	Supply	No.	9		
1.1.6	Install	No.	9		
	DB-Manager's House				
1.1.7	Supply	No.	1		
1.1.8	Install	No.	1		
	60A, Single Phase Digital Pre-Paid Meters				
1.1.9	Supply	No.	10		
1.1.10	Install	No.	10		
1.2	Low voltage cables				
	600/1 000V PVC/PVC/SWA/PVC multi-core copper cable installed in sleeves (sleeves measured elsewhere)				
	50mm ² 4 Core				
1.2.1	Supply	m	320		
1.2.2	Install	m	320		
	16mm ² 3 Core				
1.2.3	Supply	m	15		
1.2.4	Install	m	15		
1.3	Low voltage cable terminations (Glands & Shrouds)				
	Make off and terminate the LV cable, complete with glands and shrouds including connection of cable to equipment terminals				
	50mm ² 4 Core (No. 4)				
1.3.1	Supply	No.	6		
1.3.2	Install	No.	6		
	25mm ² 3 Core (No. 2)				
1.3.3	Supply	No.	20		
1.3.4	Install	No.	20		
	16mm ² 3 Core (No. 2)				
1.3.5	Supply	No.	2		
1.3.6	Install	No.	2		
1.4	Low voltage cable terminations (Lugs)				
	Make off and terminate the LV cable, complete with glands and shrouds including connection of cable to equipment terminals				
	70mm ² x 10mm				
1.4.1	Supply	No.	24		
1.4.2	Install	No.	24		
	25mm ² x 10mm				
1.4.3	Supply	No.	60		
1.4.4	Install	No.	60		
	16mm ² x 10mm				
1.4.5	Supply	No.	12		
1.4.6	Install	No.	12		
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Item	Description	Unit	Qty	Rate	Amount
Brought forward from previous page					
1.5	Earthing Conductors				
	Bare stranded copper earth conductor installed in sleeves (sleeves measured elsewhere)				
	35mm ²				
1.5.1	Supply	m	320		
1.5.2	Install	m	320		
1.6	Earthing conductor terminations				
	Make off and terminate earth conductor, including lugs and connections				
	35mm ² x 8mm				
1.6.1	Supply	No.	16		
1.6.2	Install	No.	16		
1.7	Sleeves				
	Kabelflex high density (or equal and approved) polyethylene (HDPE PN10) sleeve with double wall construction, corrugated outer wall and smooth inner wall finish inclusive of couplers, bends, etc				
	110mm diameter				
1.7.1	Supply	m	24		
1.7.2	Install	m	24		
	50mm diameter				
1.7.3	Supply	m	300		
1.7.4	Install	m	300		
1.8	Draw wires				
	Draw wire drawn into sleeves and conduits including approximately 300mm slack in boxes, distribution board, etc.				
	1.6mm ² Galvanised steel draw wire				
1.8.1	Supply	m	400		
1.8.2	Install	m	400		
1.9	Excavations				
	All excavations, back filling and compaction must be done manually using local labour				
	Excavate for cable and sleeve trench including temporary support of sides, keeping excavations dry, backfilling and compacting to the Engineer's specification				
1.9.1	Soft Pickable Soil	m ³	12		
	Bedding under and filling around cables comprising sifted sand				
1.9.2	Supply	m ³	12		
1.9.3	Install	m ³	12		
1.10	Cable Tape and Markers				
	PVC warning marking tape				
1.10.1	Supply	m	400		
1.10.2	Install	m	400		
1.11	Testing and commissioning				
1.11.1	Testing and commissioning of the works covered within this bill.	Item	1		
1.12	Documentation				
1.12.1	Provision of the As-built drawings for the works covered within this bill showing all cable routes, conduit routes, etc	Item	1		
1.12.2	Provision of the Operation and Maintenance manuals for the works covered within this bill including conducting User's training	Item	1		
1.12.3	Provision of the Certificates of Compliance upon completion for the works covered within this bill.	Item	1		
1.13	Guarantee				
1.13.1	12 month equipment and installation guarantee on the works covered within this bill. The guarantee period commences on the day of successful handing over of the building to the Client.	Item	1		
CARRIED FORWARD TO SUMMARY PAGE					

Item	Description	Unit	Qty	Rate	Amount
2	<u>BILL 2: HOSTEL - ELECTRICAL INSTALLATIONS</u>				
2.1	PVC Conduits PVC conduit including bending, short lengths, draw boxes, cutting, bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.				
	20mm				
2.1.1	Supply	m	500		
2.1.2	Install	m	500		
	25mm				
2.1.3	Supply	m	300		
2.1.4	Install	m	300		
2.2	PVC Round Boxes Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.				
	20mm				
2.2.1	Supply	No.	90		
2.2.2	Install	No.	90		
	25mm				
2.2.3	Supply	No.	40		
2.2.4	Install	No.	40		
2.3	Galvanised boxes Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.				
	100 x 50 x 50mm				
2.3.1	Supply	No.	20		
2.3.2	Install	No.	20		
	100 x 100 x 50mm				
2.3.3	Supply	No.	60		
2.3.4	Install	No.	60		
2.4	PVC insulated conductors 600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm ²				
2.4.1	Supply	m	1200		
2.4.2	Install	m	1200		
	4.0 mm ²				
2.4.3	Supply	m	1000		
2.4.4	Install	m	1000		
	6.0 mm ²				
2.4.5	Supply	m	800		
2.4.6	Install	m	800		
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Item	Description	Unit	Qty	Rate	Amount
Brought forward from previous page					
2.5	Bare copper earth conductors Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm ²				
2.5.1	Supply	m	1100		
2.5.2	Install	m	1100		
	4.0 mm ²				
2.5.3	Supply	m	400		
2.5.4	Install	m	400		
2.6	Isolators Isolator complete with box, cover plate and accessories. 20A DP Single phase isolator, flush mounted				
2.6.1	Supply	No.	9		
2.6.2	Install	No.	9		
	60A DP Single phase stove isolator, flush mounted				
2.6.3	Supply	No.	9		
2.6.4	Install	No.	9		
2.7	Light switches Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals. 16A, 230V, 1 Lever 2 Way with steel coverplate				
2.7.1	Supply	No.	14		
2.7.2	Install	No.	14		
2.8	Photocell Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified 16A, 230V, Photocell				
2.8.1	Supply	No.	1		
2.8.2	Install	No.	1		
2.9	Light fittings SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings. <i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm² flexible cable with a 5 amp 3 pin plug top fitted.</i> Type C: Round bulkhead light fitting with unbreakable polycarbonate diffuser c/w 15W, LED lamp, 2592 lumens, IP65 and electronic control gear.				
2.9.1	Supply	No.	60		
2.9.2	Install	No.	60		
	Type E: Turbo 2light spotlight fitting complete with 2 x 15W, LED ES 27 globes, 2592 lumens, IP20, 231V.				
2.9.3	Supply	No.	10		
2.9.4	Install	No.	10		
	Type F20: Surface mounted open channel fluorescent light fitting c/w 2 x 23W, LED tubes, 2 150lumens per lamp, IP20 and electronic control gear.				
2.9.5	Supply	No.	2		
2.9.6	Install	No.	2		
Carried forward to next page					

Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
2.10	Testing and commissioning				
2.10.1	Testing and commissioning of the works covered within this bill.	Item	1		
2.11	Documentation				
2.11.1	Provision of the As-built drawings for the works covered within this bill showing all cable routes, conduit routes, etc	Item	1		
2.11.2	Provision of the Operation and Maintenance manuals for the works covered within this bill including conducting User's training	Item	1		
2.11.3	Provision of the Certificates of Compliance upon completion for the works covered within this bill.	Item	1		
2.12	Guarantee				
2.12.1	12 month equipment and installation guarantee on the works covered within this bill. The guarantee period commences on the day of successful handing over of the building to the Client.	Item	1		
2.13	<u>Earthing and lightning protection system installations</u>				
	Allowance should be made for the following electrical equipment.				
	50mm ² PVC stranded copper conductor 600V/1000V grade drawn in conduit- down conductors shall be bonded to steel roof with M6 20mm long brass bolts, nuts and washers. Copper conductor shall be equipped with hexagon crimped lig for bonding/termination.				
	50mm ² bare stranded copper conductor laid in trench for the creation of ring earth electrode in trench, 800mm below ground.				
	8mm diameter solid aluminium round conductor surface mounted on aluminium guides				
	Joint between dissimilar materials to be done by crimping lugs on the two types of materials and bond the lugs with M6 20mm long brass bolts, nuts and washers.				
	Earth electrodes to be extensible copper clad steel rods 12mm diameter and 1500mm long driven into the ground to a depth of not less than 600mm below finished ground level.				
	Bonding between stranded copper conductors and earth electrodes to be done by CAD weld method. Bonding to steel reinforcing to be done with a U clamp, the copper conductor to be equipped with a lug.				
	Test points to be created between down conductors and earth electrode conductors equipped with lugs and bonded with M6 20mm long brass bolts, nuts and washers.				
	Site survey to be done prior to the installation and the soil resistivity shall be measured, the prevailing site conditions checked and a proposal submitted to the Engineer regarding the type of earthing.				
	Draw boxes, conduits equipped with draw wire placed in position for casting into concrete or screed, for building in or chased into concrete or brickwork and for surface mounted in ceiling voids including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles, etc. as specified.				
2.13.1	Conduct soil resistivity tests and submit results	Item	1		
2.13.2	25mm diameter PVC conduit built into brickwork/ installed in ground	Supply	m	50	
2.13.3		Install	m	50	
2.13.4	50mm ² PVC insulated copper down conductor	Supply	m	50	
2.13.5		Install	m	50	
2.13.6	50mm ² bare stranded copper conductor installed in ground	Supply	m	200	
2.13.7		Install	m	200	
	Carried forward to next page				

ELECTRICAL INSTALLATIONS

MELTON RESEARCH FARM
SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE

INDEPENDENT DEVELOPMENT TRUST

Item	Description	Unit	Qty	Rate	Amount
Brought forward from previous page					
2.13.8	Test points between down conductor and earth electrode conductor installed complete with lugs, bolts, nuts and washers as specified.	Supply	No.	7	
2.13.9		Install	No.	7	
2.13.10	Bonding of down conductors to roof sheetings installed complete with lugs, bolts, nuts and washers as specified.	Supply	No.	7	
2.13.11		Install	No.	7	
2.13.12	Bonding of earth electrode conductors to earth electrodes installed complete with CAD weld, lugs, bolts, nuts and washers as specified.	Supply	No.	7	
2.13.13		Install	No.	7	
2.13.14	12mm diameter 1500mm long extensible earth electrode complete installed 600mm below finished ground level	Supply	No.	7	
2.13.15		Install	No.	7	
2.13.16	8mm ² solid aluminium conductor	Supply	m	50	
2.13.17		Install	m	50	
2.13.18	500mm long air discharge copper conductor	Supply	No.	7	
2.13.19		Install	No.	7	
2.13.20	Connection/test terminal on column inclusive of termination materials	Supply	No.	7	
2.13.21		Install	No.	7	
2.13.22	Allow for any other cost you may deem necessary to complete the installation of the lightning protection system.	Item		1	
2.13.23	Testing and Commissioning	Sum		1	
2.13.24	Issue earth resistance test certificate	Sum		1	
CARRIED FORWARD TO SUMMARY PAGE					

Item	Description	Unit	Qty	Rate	Amount
3	<u>BILL 3: MANAGER'S HOUSE - ELECTRICAL INSTALLATIONS</u>				
3.1	PVC Conduits PVC conduit including bending, short lengths, draw boxes, cutting, bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.				
	20mm				
3.1.1	Supply	m	300		
3.1.2	Install	m	300		
	25mm				
3.1.3	Supply	m	200		
3.1.4	Install	m	200		
3.2	PVC Round Boxes Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.				
	20mm				
3.2.1	Supply	No.	40		
3.2.2	Install	No.	40		
	25mm				
3.2.3	Supply	No.	12		
3.2.4	Install	No.	12		
3.3	Galvanised boxes Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.				
	100 x 50 x 50mm				
3.3.1	Supply	No.	16		
3.3.2	Install	No.	16		
	100 x 100 x 50mm				
3.3.3	Supply	No.	18		
3.3.4	Install	No.	18		
3.4	PVC insulated conductors 600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm ²				
3.4.1	Supply	m	800		
3.4.2	Install	m	800		
	4.0 mm ²				
3.4.3	Supply	m	600		
3.4.4	Install	m	600		
	6.0 mm ²				
3.4.5	Supply	m	200		
3.4.6	Install	m	200		
3.5	Bare copper earth conductors Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm ²				
3.5.1	Supply	m	700		
3.5.2	Install	m	700		
	Carried forward to next page				

Item	Description	Unit	Qty	Rate	Amount
Brought forward from previous page					
3.5.3	4.0 mm ²	Supply	m	100	
3.5.4		Install	m	100	
3.6	Isolators				
	Isolator complete with box, cover plate and accessories.				
	20A DP Single phase isolator, flush mounted				
3.6.1		Supply	No.	1	
3.6.2		Install	No.	1	
	60A DP Single phase stove isolator, flush mounted				
3.6.3		Supply	No.	1	
3.6.4		Install	No.	1	
3.7	Light switches				
	Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals.				
	16A, 230V, 1 Lever 2 Way with steel coverplate				
3.7.1		Supply	No.	16	
3.7.2		Install	No.	26	
3.8	Photocell				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
3.8.1		Supply	No.	1	
3.8.2		Install	No.	1	
3.9	Light fittings				
	SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.				
	<i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm² flexible cable with a 5 amp 3 pin plug top fitted.</i>				
	Type A1: Downlight fitting with unbreakable polycarbonate diffuser c/w 24W, LED bulb, 2592 lumens, IP40, 231V.				
3.9.1		Supply	No.	12	
3.9.2		Install	No.	12	
	Type C: Round bulkhead light fitting with unbreakable polycarbonate diffuser c/w 15W, LED lamp, 2592 lumens, IP65 and electronic control gear.				
3.9.1		Supply	No.	10	
3.9.2		Install	No.	10	
	Type F20: Surface mounted open channel fluorescent light fitting c/w 2 x 23W, LED tubes, 2 150lumens per lamp, IP20 and electronic control gear.				
3.9.5		Supply	No.	2	
3.9.6		Install	No.	2	
Carried forward to next page					

Item	Description	Unit	Qty	Rate	Amount
	Brought forward from previous page				
3.10	Testing and commissioning				
3.10.1	Testing and commissioning of the works covered within this bill.	Item	1		
3.11	Documentation				
3.11.1	Provision of the As-built drawings for the works covered within this bill showing all cable routes, conduit routes, etc	Item	1		
3.11.2	Provision of the Operation and Maintenance manuals for the works covered within this bill including conducting User's training	Item	1		
3.11.3	Provision of the Certificates of Compliance upon completion for the works covered within this bill.	Item	1		
3.12	Guarantee				
3.12.1	12 month equipment and installation guarantee on the works covered within this bill. The guarantee period commences on the day of successful handing over of the building to the Client.	Item	1		
3.13	<u>Earthing and lightning protection system installations</u>				
	Allowance should be made for the following electrical equipment.				
	70mm ² PVC stranded copper conductor 600V/1000V grade drawn in conduit- down conductors shall be bonded to steel roof with M6 20mm long brass bolts, nuts and washers. Copper conductor shall be equipped with hexagon crimped lig for bonding/termination.				
	70mm ² bare stranded copper conductor laid in trench for the creation of ring earth electrode in trench, 800mm below ground.				
	8mm diameter solid aluminium round conductor surface mounted on aluminium guides				
	Joint between dissimilar materials to be done by crimping lugs on the two types of materials and bond the lugs with M6 20mm long brass bolts, nuts and washers.				
	Earth electrodes to be extensible copper clad steel rods 12mm diameter and 1500mm long driven into the ground to a depth of not less than 600mm below finished ground level.				
	Bonding between stranded copper conductors and earth electrodes to be done by CAD weld method. Bonding to steel reinforcing to be done with a U clamp, the copper conductor to be equipped with a lug.				
	Test points to be created between down conductors and earth electrode conductors equipped with lugs and bonded with M6 20mm long brass bolts, nuts and washers.				
	Site survey to be done prior to the installation and the soil resistivity shall be measured, the prevailing site conditions checked and a proposal submitted to the Engineer regarding the type of earthing.				
	Draw boxes, conduits equipped with draw wire placed in position for casting into concrete or screed, for building in or chased into concrete or brickwork and for surface mounted in ceiling voids including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles, etc. as specified.				
3.13.1	Conduct soil resistivity tests and submit results	Item	1		
3.13.2	25mm diameter PVC conduit built into brickwork/ installed in ground	Supply	m	12	
3.13.3		Install	m	12	
3.13.4	50mm ² PVC insulated copper down conductor	Supply	m	12	
3.13.5		Install	m	12	
3.13.6	50mm ² bare stranded copper conductor installed in ground	Supply	m	12	
3.13.7		Install	m	12	
	Carried forward to next page				

MELTON RESEARCH FARM
SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE

Item	Description	Unit	Qty	Rate	Amount
Brought forward from previous page					
3.13.8	Test points between down conductor and earth electrode conductor installed complete with lugs, bolts, nuts and washers as specified.	Supply	No.	2	
3.13.9		Install	No.	2	
3.13.10	Bonding of down conductors to roof sheetings installed complete with lugs, bolts, nuts and washers as specified.	Supply	No.	2	
3.13.11		Install	No.	2	
3.13.12	Bonding of earth electrode conductors to earth electrodes installed complete with CAD weld, lugs, bolts, nuts and washers as specified.	Supply	No.	2	
3.13.13		Install	No.	2	
3.13.14	12mm diameter 1500mm long extensible earth electrode complete installed 600mm below finished ground level	Supply	No.	2	
3.13.15		Install	No.	2	
3.13.16	8mm ² solid aluminium conductor	Supply	m	12	
3.13.17		Install	m	12	
3.13.18	500mm long air discharge copper conductor	Supply	No.	2	
3.13.19		Install	No.	2	
3.13.20	Connection/test terminal on column inclusive of termination materials	Supply	No.	2	
3.13.21		Install	No.	2	
3.13.22	Allow for any other cost you may deem necessary to complete the installation of the lightning protection system.	Item		1	
3.13.23	Testing and Commissioning	Sum		1	
3.13.24	Issue earth resistance test certificate	Sum		1	
CARRIED FORWARD TO SUMMARY PAGE					

ELECTRICAL INSTALLATIONS

MELTON RESEARCH FARM
SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE

INDEPENDENT DEVELOPMENT TRUST

Item	Description	Unit	Qty	Rate	Amount
4	BILL 4: SUNDRIES				
4.1	Electricity permanent power connection	Sum	1		
CARRIED FORWARD TO SUMMARY PAGE					

C3 SCOPE OF WORKS

INDEPENDENT DEVELOPMENT TRUST

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

PART C3: SCOPE OF WORK

C3.1: STANDARD SPECIFICATIONS

C3.2: PROJECT SPECIFICATIONS

C3.3: PARTICULAR SPECIFICATIONS

INDEPENDENT DEVELOPMENT TRUST

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

C3: SCOPE OF WORK

C3.1 STANDARD SPECIFICATIONS

C3.2 PROJECT SPECIFICATIONS

PART A: GENERAL

PS-1	Project Description
PS-2	Description of the Site and Access
PS-3	Details of the Works
PS-4	Construction Programme
PS-5	Site Facilities Available
PS-6	Facilities Required on site
PS-7	Management and Disposal of Water
PS-8	Rainfall Figures
PS-9	Health and Safety
PS-10	Subcontractors
PS-11	Deviation from Construction Programme
PS-12	Delay in Completion
PS-13	Supply of Materials
PS-14	Execution of Works
PS-15	Existing Services
PS-16	Spoil and Borrow Material

PART B: AMENDMENTS TO THE STANDARD SPECIFICATIONS

C3.3 PARTICULAR SPECIFICATIONS

PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION

INDEPENDENT DEVELOPMENT TRUST

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

C3.1 STANDARD SPECIFICATIONS

The following standardized specifications for Civil Engineering Construction of the South African Bureau of Standards SABS 1200 shall form part of this contract:

SABS 1200 A	1986	General
SABS 1200 C	1980(as amended 1990)	Site clearance
SABS 1200 DA	1988(as amended 1990)	Earthworks (Small Works)
SABS 1200 DB	1989	Earthworks (Pipe trenches)
SABS 1200 DE	1982	Small Earth Dams
SABS 1200 G	1982	Concrete
SABS 1200 GA	1982	Concrete (Small Works)
SABS 1200 HA	1990	Structural steel (Sundry Items)
SABS 1200 LB	1983	Bedding (pipes)
SABS 1200 L	1983	Medium Pressure Pipes

The following SANS specifications are also referred to in this document and the Contractor is advised to obtain them from Standards South Africa (a division of SABS) in Pretoria.

SANS 10396: 2003:	Implementing Preferential Construction Procurement Policies using Targeted Procurement Procedures
SANS 1914-1 to 6 (2002):	Targeted Construction Procurement
SANS 1921 – 1 (2004):	Construction and Management Requirements for Works Contracts Part 1: General Engineering and Construction Works

INDEPENDENT DEVELOPMENT TRUST

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

C3.2: PROJECT SPECIFICATIONS

STATUS

The Project Specification, consisting of two parts, forms an integral part of the contract and supplements the Standard Specifications.

Part A contains a general description of the works, the site and the requirements to be met.

Part B contains variations, amendments and additions to the Standardized Specifications and, if applicable, the Particular Specifications.

In the event of any discrepancy between a part or parts of the Standardized or Particular Specifications and the Project Specification, the Project Specification shall take precedence. In the event of a discrepancy between the Specifications, (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Engineer before the execution of the work under the relevant item.

The standard specifications which form part of this contract have been written to cover all phases of work normally required for road contracts, and they may therefore cover items not applicable to this particular contract.

PART A: GENERAL

PS 1 PROJECT DESCRIPTION

The work required will be as follows:

- Demolitions of existing asbestos single quarters
- Site Clearance
- Construction of farm manager's two-bedroom house and nine single quarters including associated electrical, plumbing, civil works
- External services to connect to the building will be done at a later stage

PS 2 DESCRIPTION OF THE SITE AND ACCESS

2.1 Location of site

The Melton Research Hostel site is situated approximately 116 km North West of Vryburg in the Matlosana District, North West Province. Remainder of the farm Melton 393 IM Southern District Municipality. It is surrounded by other farms and smallholdings.

2.2 Access to site

The nearest urban community is in Ganyesa. The site has a gentle slope in the south westerly direction. The site is accessed through a local gravel road connected to the R378.

PS 3 DETAILS OF THE WORKS

Brief description of works

A brief detail of the works for which this specification is applicable is as follows:

3.1 Alteration, Demolition and Construction

The work to be done shall consist inter alia of the following:

- Clearing of the site
- Demolitions of existing asbestos buildings
- Excavation of footings and bases
- Casting of reinforced bases and footings
- Brickwork to floor and roof level.
- Filling and compaction of surface bed.
- Casting and finishing of concrete floor slab.
- Supply and installation of sisalation
- Supply and installation of roofing
- Supply and installation of screeds and internal plaster
- Supply and installation of tiles and tiled skirtings
- Painting of structural steel and internal walls
- Waterproofing of new roofs
- Supply and install of carpentry
- Supply and installation of ceilings
- Supply and installation of windows and doors
- Supply and installation of glazing
- Supply and installation of name boards.

- Supply and installation of gutters and downpipes
- Plumbing
- Electrical installation within the building

3.2 Existing services

Water

There is no municipal supplied water in the area. The farm relies on water from the borehole with no other alternative, the existing borehole is some 200m away from the main entrance of the staff dwelling. The farm manager indicated the current borehole is above 350m deep and the yield is poor.

Electricity

Electricity is not available on site, the whole site is dependent on a generator.

Sewer

The existing buildings are catered for by one septic tanks within the property as there is no external sewer systems around and near the property. The sizes of the septic tank is unknown

3.3 Labour recruitment conditions

The Department of Agriculture will assist in the formation of a PSC. The composition of the PSC comprises representation by the Employer, the Principal Agent and formal structures within the community.

The contractor shall make use of these communication channels, and shall appoint from amongst his site personnel a responsible person to participate in the affairs of the PSC, and this representative may be also required to attend the monthly PSC meetings.

It is mandatory that the Contractor shall interact with the community via proactive project liaison and project participation by its leaders and constituted organisations and forums, as well as through the employment of its people, and these activities shall constitute essential facets of the project.

Local labour is to be used and the employment of such labour is to be done in conjunction with the PSC.

3.4 Construction in confined Areas

It may be necessary for the Contractor to work within confined areas. Except where provided for in the specifications, no additional payment shall be made for work done in restricted areas. In certain places excavation, construction and filling works will have to be performed in a small ($\pm 1,0$ m width) working space. The method of construction in these confined areas largely depends on the Contractor's constructional plant. The Contractor shall note that, unless provided for in terms of the scheduled payment items of the project specifications, measurement and payment shall be in accordance with the specified excavation, construction and filling works, irrespective of the method used for achieving these cross sections and dimensions, and that the tendered rates and amounts shall include full compensation for all special equipment and construction methods and for all difficulties encountered when working in confined areas and narrow widths, and at or around obstructions, and that no extrapayment shall be made nor shall any claim for additional payment be considered in such cases.

PS 4 CONSTRUCTION PROGRAMME

PS 4.1 General

The submission of a construction programme as stated per Clause 12.2.6 of the JBCC PBA is compulsory.

Before any work is to be commenced on the site (within a period as stated in Clause 12.2.17 of the JBCC PBA), the Contractor must submit a detailed project programme for the construction of the Works to the Principal Agent for his approval.

In preparation of the construction programme the Contractor must liaise with the Principal Agent and the programme must take into account the coordination of all activities. The programme must consist of a detailed schedule or block diagram covering all aspects of the Works and the planned time thereof must, with the Contract Period as time basis, be shown.

Rainfall conditions will be taken as abnormal when the average rainfall, as shown in Clause PS 8, is exceeded and the contractor must then apply in writing for extension of the contract period using Clause 50(5) of the Special Conditions of Contract.

The Tenderer is required to state in the Appendix to the Form of Tender the time in which he is prepared to undertake and complete the works.

The Contractor shall submit to the Principal Agent a realistic, detailed programme not later than 14 days after receipt of the Letter of Acceptance. The programme shall be in bar-chart format showing in detail how the Contractor proposes to complete the work covered by this contract by the Due Completion Date.

The following details must be stated:

- i. The quantity of work applicable to each bar item as well as the rate at which the work will be completed.
- ii. A budget of the value of completed work, month by month, for the full contract period.
- iii. The Contractor's plant commitment on the contract for every fortnight.
- iv. The critical path.

The programme shall be kept up to date. If a Contractor fails to maintain progress in terms of the programme, he shall produce a revised programme showing the modifications to the original programme necessary to ensure completion of the Works before the Due Completion Date.

The approval of any programme by the Principal Agent shall have no contractual significance, other than satisfying the Principal Agent that the Work is carried out according to such programme and that the Contractor undertakes to carry out the work in accordance with the programme. The Principal Agent will have the right to instruct the Contractor to revise the programme if necessitated by circumstances.

PS 4.2 Time for Completion

The maximum time allowed for the completion of the contract is 6 months (excluding special non-working days and the year end break) from the date of Letter of Acceptance.

PS 5 SITE FACILITIES AVAILABLE

PS 5.1 Water Supply

The Contractor must make his own arrangements for provision of fresh water on site for domestic and construction purposes.

The rates tendered for the relevant items in the Preliminary and General Section of the schedule shall include all costs for the establishment and maintenance of water supply to the works and the Contractor shall make his own arrangements for the possible conveyance and storage of water if necessary.

PS 5.2 Power Supply

The Contractor must make his own arrangements for the provision of electricity on site.

The rates tendered for the relevant items in the Preliminary and General Section of the schedule shall include all costs for the establishment and maintenance of a power supply to the works.

PS 6 FACILITIES REQUIRED ON SITE

PS 6.1 Facilities for the Contractor

Site Establishment

The Contractor is responsible to provide a suitable site for his camp and to provide accommodation for his personnel and labourers. If the Employer can make any specific site available to the Contractor, such site will be pointed out to the Contractor.

The chosen site shall be subject to the approval of the Engineer and the Project Steering Committee (PSC). Possible locations for a campsite shall be pointed out at the Site inspection. The Contractor shall conform to all local authority, environmental and industrial regulations.

The Contractor shall make his own arrangements concerning the supply of electrical power and all other services. No direct payment shall be made for the provision of electrical and other services. The cost thereof shall be deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.

The Contractor shall provide security watchmen for the contract as he deems fit at no extra cost for the Employer. The Contractor must ensure that all his employees as well as the employees of his subcontractors are able to identify themselves as members of the construction team.

Ablution and Sanitary Facilities:

The Contractor shall erect and maintain on the site proper ablution facilities. The Contractor shall service and maintain the facilities in a clean and hygienic state for the duration of the contract period and on completion of the works it from the site.

PS 6.2 Laboratory Facilities

The contractor shall provide Laboratory facilities at an SABS accredited laboratory to conduct tests as required or as specified/measured in the bills of quantity.

PS 6.3 Construction Notice Board (Name Board)

1 Official Name Board, as per C4.2 Site Information: Construction Notice Board, are required for this contract.

PS 6.4 Housing for the Engineer and/or his Representative

No housing is required for the Engineer or his Representative.

PS 6.5 Telephone Facilities

The contractor will ensure that he has constant telephone contact.

PS 7 MANAGEMENT AND DISPOSAL OF WATER

The Contractor shall pay special attention to the management and disposal of water and stormwater on the site. It is essential that all completed works or parts thereof are kept dry and properly drained. Claims for delay and for repair of damage caused to the works as a result of the Contractor's failure to properly manage rain and surface water, will not be considered.

PS 8 RAINFALL FIGURES

The following figures are applicable for Clause 50(5) of the Special Conditions of Contract.

INFORMATION SOURCE: National Weather Bureau
Pretoria, Tel.: (012) 309 3911
RAINFALL STATION: Jan Kempdorp
PERIOD: 1994-2003

Rainfall station: Jan Kempdorp					
Period: 1994 – 2003					
Month	N _n	R _n	Month	N _n	R _n
January	2,2	75,1	July	0,0	0,8
February	2,2	67,6	August	0,0	0,6
March	1,7	58,6	September	0,0	2,3
April	0,6	18,9	October	1,1	33,7
May	0,2	8,2	November	3,1	87,1
June	0,1	4,5	December	3,1	89,2
Annual average: 446,5					

N_n = Average amount of days on which a rainfall of 10 mm or more has been recorded.

R_n = Average monthly rainfall in mm

PS 9 HEALTH AND SAFETY

PS 9.1 General statement

It is a requirement of this contract that the Contractor shall provide a safe and healthy working environment and to direct all his activities in such a manner that his employees and any other persons, who may be directly affected by his activities, are not exposed to hazards to their health and safety. To this end the Contractor shall assume full responsibility to conform to all the provisions of the Occupational Health and Safety Act (OHSA) No 85 and Amendment Act No 181 of 1993, and the OHSA 1993 Construction Regulations 2003 issued on 18 July 2003 by the Department of Labour.

For the purpose of this contract the Contractor is required to confirm his status as mandatory and employer in his own right for the execution of the contract by entering into an agreement with the Employer in terms of the Occupational Health and Safety Act in the form as included in section C1.5.

PS 9.2 Health and Safety Specifications and Plans

(a) Employer's Health and Safety Specification

The Employer's Health and Safety Specification is included in Section C3.3, Part E of the tender documents as part of the Particular Specifications.

(b) Tenderer's Health and Safety Plan

The Tenderer shall submit with the tender his own documented Health and Safety Plan he proposes to be implement for the execution of the work under the contract. The Health and Safety Plan must at least cover the following:

- (i) a proper risk assessment of the works, risk items, work methods and procedures in terms of Regulations 7 to 28;
- (ii) pro-active identification of potential hazards and unsafe working conditions;
- (iii) provision of a safe working environment and equipment;
- (iv) statements of methods to ensure the health and safety of subcontractors, employees and visitors to the site, including safety training in hazards and risk areas (*Regulation 5*);
- (v) monitoring health and safety on the site of works on a regular basis, and keeping of records and registers as provided for in the Construction Regulations;
- (vi) details of the Construction Supervisor, the Construction Safety Officers and other competent persons he intends to appoint for the construction works in terms of Regulation 6 and other applicable regulations; and
- (vii) details of methods to ensure that his Health and Safety Plan is carried out effectively in accordance with the Construction Regulations 2003.

The Contractor's Health and Safety Plan will be subject to approval by the Employer, or amendment, if necessary, before commencement of construction work. The Contractor will not be allowed to commence work, or his work will be suspended if he had already commenced work, before he has obtained the Employer's written approval of his Health and Safety Plan.

Time lost due to delayed commencement or suspension of the work as a result of the Contractor's failure to obtain approval for his safety plan, shall not be used as a reason to claim for extension of time or standing time and related costs

PS 9.3 Cost of compliance with the OHSA Construction Regulations

The rates and prices tendered by the Contractor shall be deemed to include all costs for conforming to the requirements of the Act, the Construction Regulations and the Employer's Health and Safety Specification as applicable to this contract.

Should the Contractor fail to comply with the provisions of the Construction Regulations, he will be liable for penalties as provided in the Construction Regulations and in the Employer's Health and Safety Specification.

PS 10 SUBCONTRACTORS

The Employer shall have the right to cede any sub-contract under this contract to a pre-approved subcontractor, in accordance with the provisions of Clause 14 of the JBCC PBA.

PS 11 DEVIATION FROM CONSTRUCTION PROGRAMME

The programme of work as required in terms of the "JBCC PBA (2014)" shall be submitted to the Engineer not later than ten working days after the Commencement Date.

The Contractor shall take into account the requirements of the Occupational Health and Safety Act, as well as the Construction Regulations in the drafting of the programme.

The format shall not be in the form of a bar chart only, but shall also clearly indicate the anticipated quantity of work to be executed each month. The construction programme shall also clearly indicate the local and foreign labour to be utilised for the duration of the Contract.

If during the progress of the work, the quantities of the work performed per month fall below the expected indicated in the Construction programme, or if the sequence of operation is altered, or if the programme is deviated from in any other way, the Contractor shall, within one week after being notified by the Engineer, submit a revised construction programme.

Such a revised construction programme shall be based on the tempo of work achieved by the Contractor up to the date of revision. Any proposal to increase the tempo of work must be accompanied by positive steps to increase production by providing more labour and plant on site or by using the available labour and plant in a more efficient manner.

Failure on the part of the Contractor to work according to the programme or revised programmes shall be sufficient reason for the Engineer to take steps as provided for in the "JBCC PBA (2014)".

PS 12 DELAY IN COMPLETION

The Contractor shall organise the Works in such a manner that no delays occur. Delay due to faulty organisation or lack or shortage of materials or labour or co-operation with other parties or to any other cause within the control of the Contractor will not be countenanced and full power is reserved by the Engineer to order the Contractor to expedite the work should the work, in the opinion of the Engineer, not progress in a satisfactory way.

PS 13 SUPPLY OF MATERIALS

All material to be used in the Works is to be supplied by the Contractor.

The Contractor shall ensure that the work is not delayed due to the lack of materials on Site, by placing orders for material required under this Contract as soon as possible. No extension of time will be allowed for any delay due to the supply of materials.

Although the quantities have been carefully calculated, it must be considered as approximate only and the Contractor, before ordering any materials, should check the quantities required. The bill of quantities is provisional.

PS 14 EXECUTION OF THE WORKS

PS 14.1 Inspection by the Engineer

No portion of the work shall be proceeded with until the Engineer or his representative has examined and approved the previous stage. If any work is covered or hidden from view before the Engineer or his representative has inspected the work, the Contractor shall at his own cost expose the covered or hidden work for inspection. The Contractor shall also be responsible for making good any work damaged during the uncovering.

PS 14.2 Certificate of Completion

When all the work under the Contract have been completed to the entire satisfaction of the Engineer, he will issue a certificate of completion to the Contractor informing the Contractor of the date the date at which the works are deemed to be completed and accepted by the Employer.

The sureties provided by the Contractor for the fulfilment and completion of the Contract in terms of the Form of Agreement will be released upon the issue of the Certificate of Completion.

PS 15 EXISTING SERVICES

The Contractor shall make himself acquainted with the position of all existing services before any excavation or other work likely to affect the existing services is commenced.

The Contractor will be held responsible for any damage to known existing services caused by or arising out of his operations and any damage shall be made good at his own expense. Damage to unknown services shall be repaired as soon as possible and liability shall be determined on site when such damage should occur.

A provisional amount is included in the bill of quantities for the protection and/or shifting of services.

Two weeks prior to commencing construction activities in a particular area, the Contractor shall also diligently enquire of local landowners as to whether there are any other known services which have not been shown on the drawings but which may be affected by the construction activities in that area, and any such services shall be brought to the attention of the Engineer immediately. The contractor shall make provision in his programme for the location and/or shifting of services.

PS 16 SPOIL AND BORROW MATERIAL

No indiscriminate spoiling of material will be allowed. All unsuitable or surplus material shall be spoiled at sites to be indicated by the Engineer. Should it be necessary for importation of materials from a designated borrow area, it will be the responsibility of the contractor in liasing with the relevant landowners for approval of access and obtaining of material.

PART B: AMENDMENTS TO THE STANDARD SPECIFICATIONS

B1 PROJECT SPECIFICATIONS RELATING TO THE STANDARD SPECIFICATIONS AND OTHER ADDITIONAL SPECIFICATIONS

In certain clauses in the standard, standardised and particular specifications, allowance is made for a choice to be specified in the project specifications between alternative materials or methods of construction, and for additional requirements to be specified to suit a particular contract. Details of such alternative or additional requirements applicable to this contract are contained in this part of the project specifications. It also contains the necessary additional specifications required for this particular contract.

The number of each clause and each payment item in this part of the project specifications consists of the prefix B followed by a number corresponding to the relevant clause or payment item in the standard specification.

The number of a new clause or payment item, which does not form part of a clause or a payment item in the standard specifications and which is included here, is also prefixed by B, but followed by a new number which follows on the last clause or item number used in the relevant section of the standard specifications.

VARIATIONS TO REQUIREMENTS OF SPECIFICATIONS LISTED IN C 3.1

PSA SABS 1200 A: GENERAL

PSA 1 MATERIALS

PSA 1.1 Quality of Materials (Sub-Clause 3.1)

Add the following:

All materials used in this Contract shall bear the official SABS mark where applicable. All materials shall be new and of the best quality available unless otherwise specified.

Storage of construction material shall comply with the set specification to the satisfaction of the Engineer.

PSA 2 CONSTRUCTION (Clause 5)

PSA 2.1 Survey

PSA 2.1.1 Replacing of Plot Beacons and Land Surveyors Reference Marks (Sub-Clause 5.1.2)

Add the following:

Only where the destruction of the beacons was unavoidable according to the Engineer, will the Contractor receive repayment plus a commission of 5,0 % of the amount paid to the sub-contractor for the replacing of lost beacons, benchmarks and Land Surveyors Reference marks.

PSA 2.2 Dealing with Water on Works (Sub-Clause 5.5)

Add the following:

No separate or additional payment will be made keeping the Works dry nor for shoring and/or additional excavations and backfilling required as a result of trench walls and cutting sides collapsing. It will be assumed that the cost of these items are priced and included in the relevant Pay Items.

PSA 2.3 Accommodation of Traffic (Clause 5.9)

Add the following sub-clauses.

PSA 2.3.1 Accommodation of Traffic

The Contractor shall arrange his work so as to allow construction traffic to have free access to building sites and other contracts at all times during the construction period.

The Contractor shall provide adequate signs, barricades, lights and the necessary staff at his own cost to ensure a reasonable free flow of traffic throughout the entire period of construction.

PSA 2.3.2 Access to properties

The Contractor shall provide and grant access to persons whose properties fall within or adjoin the area over which he is working. In this respect the contractor's attention is drawn to the General Conditions of Contract. No separate payment will be made for

the provision and maintenance of such accesses and facilities, except where it may be required outside the road reserve.

PSA 3 TESTING

PSA 3.1 Approved laboratories (Sub-clause 7.2)

Add the following sub-clause:

The Contractor shall make arrangements to the approval of the Engineer for the hydrostatic testing of the pipe sections installed. Over and above the normal tests carried out by the Contractor on site, the Engineer may order the Contractor to arrange special tests to be carried out by an approved independent laboratory should the Engineer not be fully convinced and satisfied with the compaction of the bedding, blanket and common backfill to the pipe trenches.

The contractor will make sure the compaction of all earthworks is as specified. The Engineer shall be notified of all testing 48h prior to testing to allow the Engineer to witness the tests or arrange for his representative to witness the tests. All testing results shall be made available to the Engineer within 48h of testing. The Engineer may ask additional testing if required.

PSA 4 OCCUPATIONAL HEALTH AND SAFETY (Sub-Clause 5.7)

Replace the contents of this sub-clause with the following:

The safe conduct of the Works shall be a primary consideration and the entire Works shall be carried out in conformity with all the applicable statutory regulations and requirements and Tenders must price their tenders accordingly.

The Works must be executed in terms of the Occupational Health and Safety Act, 1993 (Act no. 85 of 1993, as amended), and the specific regulations made in terms of this Act.

In particular, the following Regulations will apply:

- a) Construction Regulations, 2003. (18 July 2003).
- b) General Administrative Regulations, 2003. (25 June 2003).

The Construction Regulations ensure that:

- Hazards and potential hazards to a healthy working environment are identified.
- These hazards are removed or reduced.
- Employees are trained to work safely in potential hazardous conditions.

The regulations ensure that not only the Contractor but also the Client has a responsibility to provide a safe and healthy working environment for all employees.

The contractor has to give notice in writing to the Provincial Director of the construction works in terms of clauses 3(1)(a)(ii), 3(1)(b)(i) and 3(1)(b)(ii) of the Construction Regulations, before starting with construction.

The Contractor's attention is also drawn to the following specific provisions in the Construction Regulations:

- a) Based on the Client's Health and Safety Specifications, the Contractor has to prepare and submit a suitable and sufficient documented health and safety plan, which shall be applied from the date of commencement to the

- b) end of the contract. The works may only commence once the health and safety plan is approved by the Client.
- c) The contractor shall appoint a full-time, competent employee designated in writing as the construction supervisor.
- d) The contractor shall, before the commencement of construction work, and during construction work, cause a risk assessment to be performed by a competent person, which shall form part of the Health and Safety Plan.
- e) Every employee shall receive Health and Safety induction training by a competent person of the Contractor, prior to the commencing of the construction work.

The Contractors health and safety plan should be based on the following principles:

- A proper risk assessment of the construction work.
- Pro-active identification of potential hazards and risk areas.
- Informing and/or training of employees in hazards and risk areas.
- Provision of a safe working environment and safety equipment.
- Ensure the safety of his Contractors through their safety plans.
- Monitoring the health and safety on the construction works on a regular basis.
- Use competent safety officers.

The Contractor's health and safety plan should cover the following details, where applicable: (with reference to clauses of the Construction Regulations)

Clause 5: Principal Contractor and Contractors

- Methods to ensure the approval, implementation and maintenance of all health and safety aspects regarding his Contractors.

Clause 6: Supervision of construction work.

- Details of the construction supervisor as well as his appointed assistants.
- Details of the construction safety officer. (Full-time or part-time).
- Details of the suitability and competency of the above persons regarding the health and safety aspects of the construction works.

Clause 7: Risk assessment

- Details of a proper risk assessment on which his health and safety plan is based.
- Ways, in which all construction employees are informed, instructed and trained regarding hazards and the related work procedures.

Clause 8 to 28: Risk items to be addressed

- The Principle Contractor health and safety plan should contain details of the design, management, responsibilities, worker training, work methods, procedures, maintenance or any other requirements necessary for him and his Contractor to work safely and in a healthy environment as stipulated in these clauses.

Copies of the Act and Regulations are available on the Department of Labour website, www.labour.gov.za.

The Construction Regulations prescribes specific actions by the Principal Contractor and his sub-Contractors, which will have an influence on the cost and duration of the

Works. The Contractor must provide in his Tender for the expenditure and time implications related to the management of the Construction Regulations.

PSA 5 MEASUREMENT AND PAYMENT

PSA 5.1 Fixed charge and Value Related Items (Sub-clause 8.2.1)

Replace the sub-clause with the following:

Payment shall be a lump sum to provide for the Contractor's expenses in connection with:

- (a) setting up and maintaining his organisation, camps and plant on the site;
- (b) effecting the insurances and indemnities required in terms of the JBCC PBA
- (c) meeting all other general obligations and liabilities which are not specifically measured for payment in these contract documents.

The lump sum total of Fixed Charge Items, Value Related Items and Time Related Items shall not exceed 15% of the nett total Tender Amount. If the Tenderer should tender a higher amount for this item it shall be reduced to the amount allowed above and all other tendered prices increased in the proportion required to retain the same Nett Total Tender Amount.

The tendered lump sum shall not be subject to any variation if the actual value of work done under the Contract exceeds, or falls short of, the Tender Amount, or as a result of an extension of time for completion in terms of Clause 25 of the JBCC PBA

Any payment made under this item shall not be taken into account when determining whether the value of a certificate complies with the "minimum amount of monthly certificate" laid down in the Appendix.

Before any payment is made under this item the Contractor shall satisfy the Engineer that he has provided on site an establishment and plant of good quality and in value exceeding that of the first instalment. The Contractor may be asked to furnish documented proof that he owns the offices and plant on site, the value of which should exceed the amount claimed in the first certificate. In the event that the Contractor cannot satisfy the Engineer as to the value or ownership, the Engineer shall have the right to withhold part of any payments to be made under this item, until the Works have been completed.

Payment of the lump sum shall be made in three separate instalments as follows:

- (a) The first instalment, 50% of the lump sum, will be paid in the first payment certificate after the Contractor has met all his obligations under this sub-clause and has made a substantial start on construction in accordance with the approved programme.
- (b) The second instalment, 35% of the lump sum, will be paid when the value of the work done reaches one half of the Nett Total Tender Amount.
- (c) The third and final instalment, 15% of the lump sum, will be paid when the works have been completed and the Contractor has fulfilled all requirements of this sub-clause. No payment for the scheduled Fixed Charge Items for this contract will be made until the requirements regarding and the erection of name boards have been met.

PSA 5.2 Facilities for the Contractor

Add the following to Clause 8.2.1

The items indicated in the specification clause consist of various items . All of these items shall be priced as per the bill of quantities if the tenderer want to supply more on site this must be included in the items under AA1.2.1.

PSA 5.3 Occupational Health and Safety

Item:

“Provision for the cost related to the Occupational Health and Safety Act, 85 of 1993, and the relevant Regulations:

i)	Preparation of a Health & safety Plan	Unit: Sum
ii)	Compilation of a Risk Assessment prior to Construction	Unit: Sum
iii)	Health & Safety induction Training of employees	Unit: Sum
iv)	Compilation and keeping up to date the Health & Safety file which shall include all documentation required in terms of the act	Unit: Sum
v)	Implementation of the Health and Safety Plan over the entire construction period	Unit: Month
vi)	Provision of safety gear	Unit: Sum

The tendered sum shall include full compensation for providing the above services as required from the Occupational Health & Safety Act. The rate shall include all related costs incurred by the Act, remuneration of personnel, trainers, etc. and equipment required for the execution of the required services as depicted by the Act. The tendered amount for items a, b, c and d shall only be paid on the successful completion of the task as approved by the client. The tendered amount for item e shall be paid on a monthly basis.

The sum tendered for the provision of safety gear will be deemed inclusive of all gear required by law. All gear ordered by the Safety officer to be provided will be in place within 24h of the instruction given in writing in the site instruction book.

PSAB SABS 1200 AB: ENGINEER'S OFFICE

PSAB 1 MATERIALS

PSAB 1.1 Name board (Sub-clause 3.1)

One name board shall be provided. The name board shall be manufactured to the Engineer's details and specifications as supplied on the site handover meeting. Board to be 2,5m wide and 1,1m high mounted on 100mm diameter wooden poles (2,5)m

PSAB 2 OFFICE BUILDINGS (Sub-Clause 3.2)

PSAB 2.1 Office building (clause 3.2)

The Engineer will not require an office but the contractor must have at least the following on site:

- Desk with chair
- Filing cabinet
- Electricity point for computer

The office must be safe (Lockable and have burglar proof windows) enough to be able to leave valuable item in it.

Add the following to clause 5.5:

The Contractor shall provide and make available at all times for the use of the Engineer and his staff the necessary survey equipment comprising of the following:

- 1 Steel tape, 30 m long
- 1 Measuring wheel, as approved by the Engineer
- 1 Self levelling Engineers level, tripod and level staff (metric)

The Contractor shall maintain the equipment in good working order. The Contractor shall keep the equipment continuously insured against any loss, damage or breakage and he shall indemnify the Engineer and the Client against any claim in this regard. Upon completion of the Works, the ownership of the equipment shall revert to the Contractor. The Engineer shall have free and ready access to all survey equipment to use on the Contract as he deems fit.

PSC	<u>SITE CLEARING (SABS 1200 C)</u>
PSC 1	CONSTRUCTION (Clause 5)
PSC 1.1	<u>General</u> (add the following sub-clause 5.9) <p>The areas where work is to be carried out must be kept clean for the duration of the contract. All rubbish must be removed without delay and the site must be left clean and tidy on completion of the service.</p>
PSC 1.2	<u>Dumping site</u> (add the following sub-clause 5.10) <p>No dumping is allowed on site other than at the designated and approved fill areas.</p>
PSC 1.3	<u>Cutting of trees</u> (sub-clause 5.2) <p><i>Add the following to the clause:</i></p> <p>No trees may be removed without prior permission from the Engineer.</p>
PSD	<u>SABS 1200 D: EARTHWORKS</u>
PSD 1	MATERIALS (Clause 3)
PSD 1.1	<u>Classification for excavation purposes</u> (Sub-clause 3.1)
PSD 1.1.1	<u>Classes of excavation</u> (Sub-clause 3.1.2) <p><i>Delete sub-clause b), d) and e)</i></p> <p><i>Add the following to the clause:</i></p> <p>All soft and intermediate excavation materials shall be classified as soft material (Clause b)). No intermediate material excavation shall be measured.</p> <p>Only two types of excavation will be entertained for purposes of measurement and payment namely:</p> <ul style="list-style-type: none"> a) Soft excavation b) Hard rock excavation
PSD 2	CONSTRUCTION (Clause 5)
PSD 2.1	<u>Excavation for working space</u> (Sub-clause 5.2.2.1 b) and c)) <p><i>Add the following to the clause:</i></p> <p>Other than for the sides of strip or pad footings or where specifically authorized by the Engineer, no concrete shall be placed against the sides of excavations.</p> <p>For external concrete faces below ground level, (other than concrete placed against the sides of excavations as above) the Contractor shall over-excavate to provide sufficient working space for the erection of formwork.</p> <p>Tenderers shall allow in their rates for excavation for any over-excavation required for working space.</p>

Excavation volumes for structures will be calculated as the nett volume of the structure below ground level after general site excavations have been completed. No additional payment shall be made for working space.

All water retaining structures shall be shuttered externally on vertical and on other faces inclined within 45° from the vertical.

PSD 2.2 Inspection (Sub-clause 5.2.2.1 d))

Add the following to the clause:

Excavation to final level, ready to achieve a binding layer or concrete footing, shall be completed less than 24 hours before such layer or footing is cast.

The Contractor shall arrange for the inspection by the Engineer or his Representative of all surfaces immediately before casting concrete.

PSD 2.3 Over-excavation to sides of excavation (Sub-clause 5.2.2.1 e))

Add the following to the clause:

Where the sides of excavations are over-excavated to establish safe slopes, provide access to excavations, or for other purposes not specifically required by the Engineer, such over-excavation shall be backfilled with material as required by the Engineer and compacted to a minimum density of 93% Mod AASHTO.

No separate payment will be made for this work.

PSD 2.4 Over-excavation (Sub-clause 5.2.2.1 e))

Add the following to the clause:

If the material in the bottom of an excavation is loosened, or if there is any over-excavation, any loose or disturbed soil shall be removed, and the over-excavation shall be replaced by mass concrete mix 15 MPa.

No separate payment will be made for replace over-excavation with concrete. No separate payment will be made for over excavation as defined in PSD 2.3 and PSD 2.4.

PSD 2.5 Trimming of surface of bulk earthworks (add the following sub-clause 5.2.2.1 f))

Where blinding, mass or structural concrete is to be cast or where precast elements are to be placed on surfaces established by bulk earthworks, the Contractor shall:

- a) Arrange his bulk excavation operation so that over-excavation is avoided, taking into account the requirements in PSD 2.3.
- b) Over-fill embankments while placing fills as necessary to allow for trimming and arrange his compaction operations to ensure that the specified density is achieved throughout the finally trimmed embankment; and
- c) Shortly before casting concrete or placing precast elements, carefully remove the final layer and trim such surfaces to the design levels and profiles within Grade II degree of accuracy.

PSD 2.6 Disposal of surplus material (Sub-clause 5.2.2.3)

Add the following to the clause:

All surplus material from bulk excavation for concrete units and for pipework shall be dumped, levelled and spread on site at the areas as indicated by the Engineer.

PSD 2.7 Freehaul (Sub-clause 5.2.5.1)

Replace the sub-clause with the following:

All haul within the site of works or within a distance of 1.0 km outside the extremities of the boundaries of the contract as indicated on the drawings shall be regarded as freehaul.

The following notes are applicable:

- Earthworks for cut to fill will be measured by volume once in fill.
- Earthworks for cut to spoil, will be measured by volume once only in excavation.
- No separate payment will be made for selection of material to be used in embankments, etc.
- The Contractor shall include for this work in his rates tendered for excavation.
- If necessary, the Contractor shall form stockpiles of suitable material to be used in embankments.
- Payment for double handling as a result of this, will be considered to be included in the rates for bulk excavation.

Trimming of Earthworks:

The slope of cut and fill areas will be 1:1,75. Platform areas will be constructed to a slope of 1:100 towards cut area.

Trimming of gradients established by bulk earthworks, will not be measured and paid for separately. The rates for this work shall be covered by the existing items.

Trimming of platform areas to indicate falls, shall not be measured separately and shall be included in cut to fill rates.

Trimming of surfaces established by restricted excavation will not be measured separately. The rates for restricted excavation shall cover the costs of trimming.

Bulk excavations:

The volume of bulk excavation shall be measured between the original ground profiles and the bottom of blinding layer.

Over-filling of embankments as required in PSD 2.5 will not be measured for payment. The costs of such over-filling will be held to be covered by the rate for bulk excavation.

The rate for bulk excavation shall cover the costs as specified in Clause 8.3.2.

In the case of surfaces not within a road prism nor covered by concrete, the rate for bulk excavation shall cover the cost of finishing off earthworks faces to the correct lines and levels within the limits for Degree of Accuracy II as specified in Sub-clause 6.1.

If the Contractor decides to form terraces first and to execute bulk excavation for the units from the final formed level, no additional payment for the bulk excavation shall be done except for bulk excavation from the original natural ground level downwards.

PSDB SABS 1200 DB: EARTHWORKS (PIPE TRENCHES)

PSDB 1 SCOPE OF WORKS

This specification covers all earthworks for pipe trenches.

PSDB 2 MEASUREMENT AND PAYMENT

PSDB 2.1 Basic Principles

PSDB 2.1.1 Excavation and backfilling (Sub-clause 8.1.5)

Add the following sub-clause:

The tendered unit price for pipelines shall in addition also allow for clearing of all vegetation, the removal and temporary stockpiling of 100 mm of topsoil and the replacement of the latter after the completion of backfilling. This excavation shall represent both soft and intermediate excavation conditions.

Interim payments for excavation and backfilling will be made as follows:

- a) complete trench excavation down to below bedding level = 30 % of measured quantity
- b) completion of pipe laying and bedding, excluding testing of pipes = 50 % of measured quantities
- c) completion of successful testing of pipes = 80 % of measured quantities
- d) completion of backfilling, including replacing of topsoil, removal of all surplus material and levelling of trenched area = 100 % of measured quantities.

PSDB 2.2 Materials

PSDB 2.2.1 Classification of excavation in headings

All excavation shall be in open cut and no tunnelling will be allowed.

PSDB 2.2.2 Classes of excavation

The excavation of material for the purpose of measurement and payment will not be classified as intermediate excavation nor as boulder excavation Class A or Class B. Soft excavation will be held to include material classified in Subclause 3.1.2 as intermediate excavation, and boulder excavation Classes A and B.

PSDB 2.3 Selection

Notwithstanding Sub-clause 3.7, in terms of which the Contractor has a choice regarding methods of selection, the Contractor is required to use selective methods of excavation. The Contractor shall electively remove and separate the sandy material from unsuitable material and place it adjacent to the trench for reuse as backfill, selected fill, selected granular material or for other use as ordered by the Engineer.

Material which, in terms of Sub-clause 6.2 of SABS 1200 D or Sub-clause 6.1 of SABS 1200 LB, is too wet for immediate use in the trench (but which is otherwise suitable) will not be regarded as "unsuitable" material and, if so ordered by the Engineer, the Contractor shall spread such material in a suitable area until it has dried sufficiently for later use. When preparing his program and construction methods, the Contractor shall make allowance for selective excavation and the handling and drying out of material which is too wet for immediate use.

PSDB 2.3 Construction

PSDB 2.3.1 Material for backfilling (Clause 5.6.2)

Where pipelines pass under roads, the main fill shall be composed of selected gravel obtained from areas designated by the Engineer.

PSHA SABS 1200 HA: STRUCTURAL STEELWORK (Sundry Items)

PSHA 1 MATERIALS (Clause 3)

PSHA 1.1 Structural Steel (Clause 3.1)

Add the following to this clause:

All structural steelwork, will be painted with a primer and paint as specified by the Engineer. The Contractor must allow in his rates to provide for shop details.

PSHA 2 CONSTRUCTION (Clause 5)

PSH 2.1 Holes for Fasteners (Clause 5.2.3)

Add the following to this clause:

Holes for holding-down bolts shall not be flame-cut.

PSHA 2.2 Welding (Sub-clause 5.2.4) (site welding)

Add the following to this clause:

Manual flame-cutting is allowed only where authorised. Edges shall be grinded to be free of unevenness, defects and distortions.

Welding shall comply with SABS 044 Part III, SABS 044 Part iv and SABS 0162.

Welding shall be minimum grade B welding.

The qualification of welders shall be in accordance with the relevant clauses of the above standards, and specifically SABS 044 Part III and shall be Grade 1 welders. Grade 2 welders will be permitted only with the Engineers written approval.

The Contractor shall provide evidence, acceptable to the Engineer, that welding procedures and welders have been tested in accordance with the requirements of AWS D1.1-81.

No welding shall be permitted on site without the express approval of the Engineer, with the exception of those details shown on the drawings as Site Welded.

PSHA 2.3 Erection and Installation (clause 5.3)

PSHA 2.4.1 Grouting of Supports (clause 5.3.6)

Add the following to this clause:

Grouting shall be carried out by the Contractor in accordance with Sub-clause 5.5.13 and 8.7 of SABS 1200G.

Non-shrink grout shall be used throughout.

PSHA 2.4.2 Erection Procedure (add the following sub-clause 5.3.8)

Fourteen days before commencing erection of steelwork on site, the Contractor shall submit to the Engineer, for his general scrutiny and information, full details of the erection procedure and methods of erection.

PSL SABS 1200 L : MEDIUM PRESSURE PIPELINE

PSL 1 SCOPE

All water pipelines in this contract shall be deemed to be medium pressure pipelines.

PSL 2 MATERIALS (Sub-clause 3.1)

PSL 2.1 General (sub-clause 3.1)

Add the following to this sub-clause.

a) Pipes

Pipeline shall be constructed using the specifications provided by the Engineer. Where indicated on the drawings uPVC pipes to SANS966 shall be used. All surfaces exposed to UV damage must be painted with two layers of white PVA paint.

b) Valves

Except where otherwise specified, isolating valves shall be of the resilient seal gate type, with a non-rising spindle and shall be arranged for clockwise closing. All valves shall be standard coated and shall receive a final coat of light blue enamel paint after installation. All valves of size equal and smaller than 150 mm shall be plain ended on both sides. For sizes greater than 150mm dia the valves shall be flanged.

Materials shall comply to the following specifications:

Materials of Construction (minimum specifications)

<u>Component</u>	<u>Specification</u>
Body	Cast Iron to BS 1452 Gr 14
Bonnet	Cast Iron to BS 1452 Gr 14
Spindle seal housing	Cast Iron to BS 1452 Gr 14
Handwheel	Cast Iron to BS 1452 Gr 14
Cap top	Cast Iron to BS 1452 Gr 14
Gate	Spheroidal Graphite Iron to BS 2789
	Gr 17 covered with nitrile rubber
Spindle	EN57 Stainless Steel
Spindle seal "O" rings	Nitrile rubber
Seal housing "O" rings	Nitrile rubber
Seal bush "O" rings	Nitrile rubber

Wiper ring
Seal housing
Spindle nut

Nitrile rubber
Nylon
Bronze to SABS 200 Code 30

A copy of the relevant valve specification of the proposed valves shall be attached to this tender document.

c) Fittings

Generally fittings are to be manufactured in uPVC, cast iron or mild steel as applicable. No aluminium fitting shall be permitted. Fittings shall be compatible in respect of working and test pressure to those of the pipelines.

PSL 3 CONSTRUCTION

PSL 3.1 Anchor / thrust blocks and pedestals (Sub-clause 5.5)

Add the following:

Dimensions at all anchor / thrust blocks shall be supplied by the Engineer as and when required. The Contractor shall request such information not less than 7 (seven) calendar days in advance.

PSL 3.2 Liaison with other Contractors (Sub-clause 5.11)

Add the following sub-clause:

The Contractor shall have the sole responsibility of liaising closely with other Contractors in respect of the matching and linking of adjoining pipe systems. No claims for delays or mismatching of levels in this regard will be entertained by the Engineer.

PSL 3.3 Concrete work (Sub-clause 5.13)

Add sub-clause 5.13 as follows:

PSL 3.4.1 General

- a) All concrete work shall be finished to the lines, levels, slopes and outlines shown on the drawings or as otherwise directed.
- b) All exposed concrete surfaces shall be finished such that surface irregularities shall not exceed a tolerance of 8 mm and shall be rubbed down with a carborundum stone to present a surface of even colour and a smooth and pleasing appearance. All exposed edges shall be chamfered by a 40 mm chamfers fixed to shuttering. Unless otherwise specified all floors shall have a wood-float finish.
- c) Surfaces shall be free from honeycombing and excrescences. Honeycombing to the extent that in the opinion of the Engineer the strength of the structure is impaired or the reinforcement is subject to corrosion or lack of bond, shall be removed and replaced with satisfactory concrete at the Contractor's expense within 72 hours of the concrete originally being placed.
- d) The minimum concrete cover to reinforcement of concrete surfaces permanently in contact with ground shall be 50 mm and for all other surfaces shall be 40 mm.

- e) All precast units shall be steel-trowelled on upper surfaces to present a dense, homogenous surface.
- e) Slight spalling of top edges of manholes to be covered by precast or cast-in-situ cover slabs shall be permitted, provided the maximum dimension of the spall measured along any face shall not exceed 10 mm and provided further that no reinforcement is exposed. The maximum permissible difference in any of the two measurements taken to opposite corners diagonally across rectangular or square structures shall not exceed 2 % of that measurement calculated from the drawing. The tolerance in thickness of walls or cover slabs shall be ± 15 mm. All top edges of manholes shall be provided with 25 mm x 25 mm chamfering

PSL 3.4.2 Thrust blocks

- a) Before any thrust block is cast, the pipe special or fitting shall be supported and secured in its correct alignment and shall be joined to the adjacent pipework.
- b) The width of any thrust block shall be limited to 1 500 mm either side of pipe or special centre line to ensure space for future pipelines in the same servitude. Concrete faces of thrust blocks shall be a minimum of 225 mm from flanges and 300 mm from flexible coupling centres. The bearing face of thrust blocks shall be cast against undisturbed soil or rock.
- c) The Engineer must inspect each thrust block position and the contractor must have the written permission of the Engineer before he can proceed with the casting of thrust blocks.

PSL 3.5 Fabricated steelwork (Sub-clause 5.15)

Add sub-clause 5.15 as follows:

- a) All fabricated steelwork for covers, locking bars, etc., shall be manufactured from mild steel plate, chequer plate and / or bar as detailed on the drawings.
- b) All welding shall be carried out in accordance with SABS 044 – “Code of Practice for Welding”.

PSL 4.1 Test pressure (Sub-clause 7.3.1)

All pipes must have a working pressure as specified in the drawings.

PSLB 1 MATERIALS

PSLB 1.1 Selected granular material (Sub-clause 3.1)

Granular materials shall be selected from trench and borrow pit excavations. If the contractor elects not to apply selection of material from excavations, he shall provide suitable material from any other approved source at his own expense.

a) Type A : Finally graded, composed of material with the following properties:

- i) Percentage by mass passing: 4,75 mm screen -100 %
0,425 mm screen - 80 to 100 %
0,002 mm screen - 0 to 45 %
- ii) Liquid limit (LL) as determined in accordance with SABS Method 852 shall not be more than 15, when performed on all the material passing the 0,425 mm sieve.
- iii) Plasticity index (PI) as determined in accordance with SABS Method 852 shall not be more than 15, when performed on all the material passing the 0,425 mm sieve.
- iv) Linear shrinkage (LS) as determined in accordance with SABS Method 853 shall not exceed 5 %, when performed on all the material passing the 0.425 mm sieve.

b) Type B : Medium graded, composed of material with the following properties:

- i) Percentage by mass passing: *4,75 mm screen - 80 to 100 %
0,425 mm screen - 60 to 80 %
0,002 mm screen - 0 to 40 %*
- ii) Liquid limit (LL) as determined in accordance with SABS Method 852 shall not be more than 35 %, when performed on all the material passing the 0,425 mm sieve.
- iii) Plasticity index (PI) as determined in accordance with SABS Method 852 shall not be more than 18, when performed on all the material passing the 0,425 mm sieve.
- iv) Linear shrinkage (LS) as determined in accordance with SABS Method 853 shall not exceed 7 %, when performed on all the material passing the 0,425 mm sieve.

- i) Percentage by mass passing: 9,5 mm screen - 100 %
4,75 mm screen - 70 to 100 %
0,425 mm screen - 30 to 60 %
0,002 mm screen - 0 to 45 %
- ii) Liquid limit (LL) as determined in accordance with SABS Method 852 shall not be more than 40 %, when performed on all the material passing the 0,425 mm sieve.
- iii) Plasticity index (PI) as determined in accordance with SABS Method 852 shall not be more than 20, when performed on all the material passing the 0,425 mm sieve.
- iv) Linear shrinkage (LS) as determined in accordance with SABS Method 853 shall not exceed 10 %, when performed on all the material passing the 0,425 mm sieve.

Items a), b) and c) are conveniently summarised in the following table:

Material	PERCENTAGE BY MASS PASSING SCREENS				ATTERBERG LIMITS SHALL NOT EXCEED		
	9,5 mm	4,75 mm	0,425 mm	0,002 mm	Liquid Limit (LL) %	Plasticity Index (PI)	Linear Shrinkage (LS) %
Finely graded / A	100	100	80 - 100	0 - 45	30	15	5
Medium graded / B	100	80 - 100	60 - 80	0 - 40	35	18	7,5
Granular / C	100	70 - 100	30 - 60	0 - 35	40	20	10

PSLB 1.2 Class of bedding (Sub-clause 3.3)

All PVC pipes shall be classed as flexible, and shall be bedded according to the requirements of SABS 1200 LB, sub-clause 5.3, except where otherwise specified or instructed by the Engineer.

HDPE pipes shall be classed as continuous flexible pipes. They shall be laid as specified.

The balance of the pipes in the works shall be classed as rigid with flanged joints and shall be bedded on Class C bedding as described in sub-clause 5.2 of SABS 1200 LB, unless otherwise specified or instructed by the Engineer.

PSLB 2 CONSTRUCTION

PSLB 2.1 Backfilling of pipes (Sub-clause 5.5)

Add the following sub-clause:

No backfilling of pipe trenches on top of the selected fill layer may commence without the written consent of the Engineer or his Representative.

C3.3

PARTICULAR SPECIFICATIONS

In addition to the Standardised and Project Specifications the following Particular Specifications shall apply to this contract and are bound in hereafter.

PART C ENVIRONMENTAL MANAGEMENT SPECIFICATION

PART C : ENVIRONMENTAL MANAGEMENT SPECIFICATION

C.1 General

In order to ensure that the construction works is carried out in an environmentally sensitive matter, strict compliance to the Environmental Management Plan (EMP) guidelines is required. The purpose of the EMP is to:

- Encourage good management practices through planning and commitment to environmental issues,
- Provide rational and practical environmental guidelines to:
 - i. Minimise disturbance of the natural environment,
 - ii. Prevent pollution of land, air and water,
 - iii. Prevent soil erosion and facilitate re-vegetation.
- Adopt the best practicable means available to prevent or minimise adverse environmental impact,
- Develop waste management practices based on prevention, minimisation, recycling, treatment or disposal of wastes,
- Train employees and contractors with regard to environmental obligations.

C.2 Training and Induction of Employees

The Contractor has a responsibility to ensure that all those people involved in the project are aware of and familiar with the environmental requirements for the project (this includes sub-contractors, casual labour, etc.). The EMP shall be part of the terms of reference for all contractors, sub-contractors and suppliers.

C.3 Complaints Register and Environmental Incident Book

Any complaints received by the project team from the public will be recorded. The complaint should be brought to the attention of the site manager, who will respond.

The following information must be recorded:

- Time, date and nature of the complaint,
- Type of communication (telephone, letter etc),
- Name, contact address and telephone number of the complainant,
- Response and investigation undertaken and
- Actions taken and by whom.

All complaints received will be investigated and a response given to the complainant within 14 days.

All environmental incidents occurring on the site will be recorded. The following information will be provided:

- Time, date, location and nature of the incident,
- Actions taken and by whom.

C.4 Site Cleanliness and Neatness

- Location of a construction camp is to be approved by the Engineer and is to be restored to its previous condition after completion of construction.
- The construction camp should preferably be fenced with a 1.8m bonnox fence or similar approved.
- All materials, equipment, plant and vehicles must be stored within the construction camp.
- A dedicated area must be made available for construction staff to change and store their personal belongings.

C.5 Access

- Access to existing roads, schools, buildings, shops and residential properties must not be impeded during construction.
- Access roads utilised by the Contractor must be maintained in good condition.

C.6 Borrow Pits

- Mining authorisations (permits) for borrow pits must be obtained from the Department of Minerals and Energy (DME) in consultation with the Department of Water Affairs and Forestry (DWAF).
- Spoil dumps resulting from borrow pits must not interfere with any natural surface drainage.
- Borrow pits must be rehabilitated after use in accordance with the requirements of DME and DWAF.

C.7 Dust Control / Air Quality

- Dust suppression measures must be implemented during construction by ensuring that all surfaces prone to dust generation are kept damp (e.g. use of water tanker).
- Ensure that vehicles and equipment are in good working conditions and that emissions are not excessive.
- Ensure that vehicles and equipment are in good working conditions and that emissions are not excessive.
- Special care must be taken in areas where the route passes close to schools and residential areas.
- The speed of construction vehicles must be reduced.

C.8 Fauna

Contractor staff may not chase, catch or kill animals encountered during construction.

C.9 Fire Prevention and Control

- Smoking is prohibited in the vicinity of flammable substances.
- The contractor must ensure that fire-fighting equipment is available on site, particularly where flammable substances are being stored or used, and that construction staff are aware of where it is kept and how it is operated.
- Fires started for comfort (warmth) are prohibited, due to the risk of veld fires and risk to adjacent property owner's lands.

C.10 Grave Sites

Gravesites in close proximity to the road must not be disturbed during construction.

C.11 Materials Handling and Spills Management

- Any hazardous materials to be used during construction (e.g. lime, fuel, paint, etc) are to be stored in a designated area at the campsite.
- The storage containers/facilities (including any diesel/petrol tanks) must be placed on an impermeable surface and surrounded by a bund wall, in order to ensure that accidental spillage does not pollute the environment.
- Workers must at all times be made aware of the health and safety risks associated with any hazardous substances used (e.g. smoking near fuel tanks), and must be provided with appropriate protective clothing/equipment in case of spillages or accidents.

- Ensure all staff and contractors undergo relevant training in the maintenance of equipment to prevent the accidental discharge or spill of fuel, oil, lubricants and other chemicals.
- Any spill of potentially hazardous materials must be cleaned up immediately (Potentially hazardous materials on site include paint, oil, grease, fuel, turpentine, etc).
- The area of contaminated soil or spill must be deposited into the hazardous waste container(s).
- The contractor should keep Peat Sorb or a similar absorbent on site to clean up any spills. The absorbent must be stored in a designated area and be available for inspection.
- All spills are to be recorded in the environmental incident book.

C.12 Noise

- Noise generating activities must be restricted to between 07h00 and 17h00 Monday to Friday, unless otherwise approved by the appropriate competent person in consultation with adjacent landowners/affected persons.
- All equipment, vehicles and machinery must be in good working condition and be equipped with sound mufflers if necessary.
- Construction staff must be trained and made aware of not creating unnecessary noise such as hooting and shouting.

C.13 Pollution Control

- Soil and water pollution through usage of fuel, oil, paint, bitumen or other hazardous substances must be avoided.
- All construction vehicles are to be maintained in good working order so as to prevent soil or water pollution from oil, fuel or other leaks, and to reduce noise pollution.

C.14 Rivers and Streams

- During construction of bridge structures, there must be no obstruction of the water flow of rivers and streams.
- Excavated material must not be stockpiled on or near riverbanks, in order to prevent sedimentation occurring.
- Erosion control measures must be employed both during and after construction.
- No impediments to natural surface water flow, other than approved erosion control measures, must occur.

C.15 Safety

- Safety measures, such as detour signs, must be implemented during construction to ensure the safety of workers, pedestrians and drivers/passengers in vehicles in the vicinity of construction work.
- Special care must be taken in the vicinity of schools to ensure the safety of children wishing to cross the road under construction.
- The relevant signage (e.g. speed control signs) must be erected alongside the road during the operation phase in order to control traffic.
- Accommodation must be made for pedestrian pathways alongside the road during the construction and operation phases.

C.16 Soil Management

- Stormwater drainage pipes must be installed alongside the road in all areas susceptible to soil erosion.
- Erosion should be minimised by the construction of meadow drains and the planting of indigenous vegetation on the side slopes and drains to reduce flow velocity of stormwater.
- Spoil from cuts may be used in existing erosion galleys.
- Stone pitching and gabions should be constructed at pipe culvert outlets.
- Accidental spills of contaminants onto the ground e.g. oil, concrete, fuel and chemicals should be removed together with the contaminated soil.
- If necessary an absorbent such as Peat Sorb should be used the aid in cleaning up the spill. The contaminated soil should be disposed of in an appropriate container, depending on its classification.
- Servicing and re-fuelling of vehicles must only be carried out at construction camp.

C.17 Worker Conduct

Code of Conduct for Construction Personnel:

- Do not leave the construction site untidy and strewn with rubbish which will attract animal pests.
- Do not set fires.
- Do not cause any unnecessary, disturbing noise at the construction camp/site or at any designated worker collection/drop off points.
- Do not drive a construction-related vehicle under the influence of alcohol.
- Do not exceed the national speed limits on public roads or exceed the recommended speed limits on the site.
- Do not drive a vehicle which is generating excessive noise or gaseous pollution (noisy vehicles must be reported and repaired as soon as possible).
- Do not litter along the roadsides, including both the public and private roads.
- Do not pollute any water bodies (whether flowing or not).
- No member of the construction team is allowed to enter the areas outside the construction site.

C.18 Traffic Disturbances and Diversions

- Any traffic diversions must be undertaken with the approval of all relevant authorities and in accordance with all relevant legislation.
- Wherever possible, traffic diversion must only take place on existing disturbed areas and remain within the existing road reserve.
- Traffic diversion routes must be rehabilitated after use.

C.19 Vegetation

- Only vegetation falling directly on the route must be removed where necessary.
- Alien vegetation within the road reserve must be eradicated, and management measures must be implemented for future control of these species.
- Vegetation that has been removed from large areas (e.g. on traffic diversion routes) during construction must be replaced with indigenous vegetation after construction has been completed.

- All general, non-hazardous waste must be placed in a skip container and disposed of at a registered waste disposal site.
- The contractor is to ensure that the portable toilet facilities at the campsite are properly maintained and in working order.
- No disposal, or leakage, of sewage must occur on or near the site.
- All hazardous waste (e.g. oil, paint, empty lime bags, contaminated wash water, etc) must be stored in leakproof containers and disposed of at a registered hazardous waste disposal site.
- The contents of waste storage containers must, under no circumstances, be emptied to the surrounding area. In general, littering, discarding or burying of any materials is not allowed on site or along the route.
- Adequate waste receptacles must be available at strategic points around the construction camp and site for all domestic refuse and to minimise the occurrence of littering.
- Concrete rubble must be collected and disposed of as directed by the Project Manager.
- Each working area must be cleared of litter and building waste (e.g. rubble, wood, concrete packets etc) on completion of the day's work.
- Any spill around the container(s) should be treated as per Section C11 and C1

OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

**FOR
PROCUREMENT OF A CONTRACTOR FOR THE
CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM
MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE
QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL
DEVELOPMENT, NORTHWEST PROVINCE**

PROJECT LOCATION & COORDINATES

MELTON RESEARCH FARM – NORTHWEST

Latitude: -26 29'40.94''S/ Longitude: 23 52'2.10''E

**INDEPENDENT DEVELOPMENT TRUST
(THE “CLIENT”)**

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Project Details	
Date of compilation: 3 February 2023	Revision number: 00
Value of project:	Commencement date:
	Contract period:
Occupational Health and Safety Agent:	info@boseleconsulting.co.za

<i>Professional responsibilities</i>	<i>Company</i>	<i>Contact person</i>	<i>Telephone</i>	<i>Fax</i>	<i>email</i>
Architects	Bosele Consulting				info@boseleconsulting.co.za
Civil Engineers	Bosele Consulting				info@boseleconsulting.co.za
Structural Engineers	Bosele Consulting				info@boseleconsulting.co.za
Electrical Engineers	Bosele Consulting				info@boseleconsulting.co.za
HVAC Engineers & Fire Consultants	N/A				info@boseleconsulting.co.za
Quantity Surveyors	Bosele Consulting				info@boseleconsulting.co.za

1. PROJECT DETAILS

Locality of the works:

The Melton Research Hostel site is situated approximately 116 km Northwest of Vryburg in the Matlosana District, North West Province. Remainder of the farm Melton 393 IM Southern District Municipality. It is surrounded by other farms and smallholdings. The nearest urban community is in Ganyesa. The site has a gentle slope in the south westerly direction. The site is accessed through a local gravel road connected to the R378.

The site coordinates are Latitude: - 26°29'40.94"S/ Longitude: 23°52'2.10"E

Figure 1: Locality Map



2. REFERENCES,

- Occupational Health and Safety Act (OHSA) No. 85 of 1993 and Regulations (as amended);
- Compensation for Injury and Occupational Diseases Act (COIDA) No. 100 of 1993 (as amended);
- South African Council for the Project and Construction Management Professions (SACPCMP) 2013: Scope of services for the OHS Consultant, Manager and Officer.
- Any other internal standards and specifications developed by the Client as they affect the operations, and
- The amended Baseline Risk assessment
- South African Roads Traffic Safety Manual (SARTSM) Chapter 2, Volume 13 of 1999
- Road Traffic Safety Act No. 93 of 1996 (as amended)
- Construction Specifications & Standards 6.0 for Southern Africa. Hans Wegelin 6th Edition 2010
- SANS Code 10400
- SABS 1200

3. LIST OF ABBREVIATIONS

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

Each year fatalities, serious injuries and poor attitudes of Contractors mar the reputation of the Construction Industry. The CLIENT has a responsibility to limit its risk by ensuring a zero tolerance and better practice approach to Contractors and those affiliated to a particular project. Thus, a high premium is placed on the health and safety (H&S) of the Client and stakeholders, which include its employees, professional service providers, public and its physical assets.

The responsibilities that the Client and relevant stakeholders have toward its employees are captured in, but not limited to this document. The responsibilities stem from both moral, civil and a variety of legal obligations. The Principal Contractor is to take due cognisance of the above statement.

Where there is an appointed OHS Consultant its behalf, shall provide a site specific Health & Safety Specification (SSHSS) for the project and provide the Principal Contractor/s (PC) making a bid or appointed to perform construction work for the project, or parts thereof.

By drawing up this SSHSS, the Client has endeavoured to address the most critical aspects relating to H&S issues in order to assist the contractor in adequately providing for the health and safety of employees on site.

Should the Client not have addressed all H&S aspects pertaining to the work that is tendered for, the contractor needs to include it in the SSHSP and inform the Client of such issues when submitting the tender, or as soon as identified.

Notwithstanding the above, cognisance needs to be taken of the current Disaster Management Plan, and all the requirements of the current levels of lockdown, standards, guidelines and information published from time to time.

4. Purpose of the Site Specific Health and Safety Specification (SSHSS)

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

No advice, approval of any document required by the SSHSS, such as hazard identification and risk assessments, or any other form of communication from the Client shall be construed as acceptance by the Client of any obligation that absolves the Principal Contractor from achieving the required level of performance and compliance with legal requirements. Furthermore, there is no acceptance of liability by the Client, which may result from the Principal Contractor failing to comply with the SSHSS, i.e. the Principal Contractor remains responsible for achieving the required performance levels.

A Mandatary Agreement in terms of Section 37.2 of the OHSA will be signed between parties prior to any works commencing. If the NEC contract is used a copy of the signed contract shall form part of the H&S file submission.

The SSHSS highlights the aspects to be implemented over and above the minimum requirements of current legislation. Requirements may be changed should new risks or issues are identified that could not have been foreseen during the design phase of the project, or during the construction phase. Any new legislation or standards (legislated or determined by the Client) that are promulgated or accepted during the contract will automatically be applied.

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

4.1 Project description/detailed scope of work as it applies to the project (Details as per the scope of work)

The Proposed Scope of works for this project, as approved by the client, consists of the

- Construction of a two-bedroom farm manager's house
- Construction of nine single quarters units
- Site clearance and demolition of existing single quarters

The works shall be done in accordance with the applicable SANS 1200 specifications, Municipal By-laws and Regulations, variations, and additions to the standardized specifications applicable to this contract and the technical specifications of the Client for work that falls outside of the standardized specifications.

4.2 Programme Description

Clarification Meeting	17 February 2023
Time allowed for preparation of H&S plan/file after tender award	
Approval date of SSHSP	<i>Within 1 week after submission but subject to content as per this requirement, for more than one review.</i>
Induction dates	<i>To be advised after Approvals of H&S Plan/file</i>
Estimated Commencement date of work on site	<i>Subject to approval of H&S Plan.</i>
Estimated Project completion date or project duration	<i>Dependant on site establishment and site hand over</i>
Project term	

5. Implementation of the Site-Specific Occupational Health and Safety Specifications (SSHSS)

The site specific H&S specification (SSHSS) forms an integral part of the Contract, and PCs are required to make it an integral part of their Contracts with Contractors and Suppliers. A SSHSS will be available for each level of Contract and Contractor and must be complied with.

This specification must be read in conjunction with the OHSA, Regulations (as amended) and any other standards relating to work being done and ensure compliance thereto. The information relative to the scope of the project, the works etc. are detailed in the tender, are to be considered when developing the SSHSP and associated documentation. The summary of risks is included in Section 2 of the SSHSS.

The OHSA S.37.2 Mandatory Agreement must be fully completed by the PC, supplied by the Client. These documents shall be deemed to form part of the returnable Contract Documents.

No work may commence without written approval of the SSHSP by the H&S Agent, or the responsible person of the Client.

Should there be design changes, or change in the scope of works, an amended SSHSS may be issued. Where amended SSHSSs are issued, the PC will be required to ensure a resubmission of an amended SSHSP for approval. Further to this, the PC must ensure that similar information must be provided as it applies to the works to all their Contractors, within 5 working days following notification thereof. Such design changes.

The OHS Consultant will visit the project at least bi-monthly to ensure compliance and limit risk. All activities on the site and all appropriate documentation will be monitored and reported on to the Client and the Designer.

Non-conformances will be issued, and penalties or work stoppage will be issued where appropriate. Communication between the OHS Consultant and the PC will be through the Designer (or Client's responsible person) as determined at the commencement of the project.

5.1 Requirements at Start Up

A site-specific H&S Plan (SSHSP) in response to this SSHSS will be subject to approval by the OHS Consultant within the stipulated time period as noted in the tender. This must include all supporting documentation as required to verify the H&S system:

- A declaration to the effect that the PC has the competence and necessary resources to carry out the work safely in compliance with the Occupational Health and Safety Act and its Regulations.
- A valid Letter of Good Standing.
- Detailed technical method statements along with, and aligned with the project programme for review by the Principal Agent, Designer and appropriate risk assessments and safe work procedures for approval by the OHS Consultant or Client:

- Site establishment including:
 - A procedure must be drafted relative to protection/ prevention of injury to persons other than PC employees, during undertaking of such construction activity.
 - Exposure of services, power, telecommunication etc.;
 - Arrangements for hoarding, traffic accommodation if applicable:
 - Excavating for services;
 - An emergency plan indicating how and where emergencies will be handled, and
 - Working at heights (if applicable).

Further method statements are to be submitted prior to, and during, the project where changes or new work is required, and the approval of the Principal Agent/Client is required before work on that aspect or activity can commence. The construction CHSO (CHSO) is to be included in production planning sessions/meetings to ensure that the appropriate risk assessments, safe work procedures and communication required are available and completed timeously.

Penalties will be applied should this not be adhered to and deemed a serious offence.

6. GENERAL REQUIREMENTS

6.1 Summary of Risks identified during Design.

The intention of the summary of findings from the design risk assessment is to highlight the residual risks identified during the design phase. The full design risk assessment can be found in the tender document.

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

The design risks and the management thereof should be included in the PC risk assessments. Where there are other Contractors appointed to do work, the PC is to ensure that Contractors include such information in their risk assessments.

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

PHASES OF THE PROJECT	RESIDUAL RISKS IDENTIFIED TO BE MANAGED (as applicable)
Site Establishment	Bringing in containers, fitting with electricity, phone and fax, toilet hire. Hoarding, security and access to be managed and in place.
Site Clearance	Traffic accommodation, movement of heavy construction vehicles, use hand tools, chainsaws, use of local labour and contractors.
Earthworks	Open excavations, use of plant and machinery, use of lifting equipment for laying storm water concrete pipes, electrical hand tools plant and equipment during paving. Noise monitoring.
Ancillary Roadworks	Use of chemicals, excavation and use of hand tools.
Housekeeping, stacking and storage	The area is adequate to ensure housekeeping and stacking and storage principles are followed. However, the children need to be kept well away from all work areas including the site camp, and notices to be clear in warning of dangerous construction activities. Care and increased attention to ensure all materials and vehicles are carefully managed and designated routes are used.
General	Use of local labour, and contractors, CLO to do regular information sessions. High winds and inclement weather require monitoring for all working at heights
Painting	Hand mixing may occur, 50kg paint drums are an ergonomic risk from handling. Potential eye, skin and respiratory irritant from paint fumes exposure, chromates.

6.2 Specified Hazardous Chemical Substances

The following lists of products or substances are those which have been identified as likely to be used on the project. This list is not inclusive and other products may be considered. Where the PC is likely to supply the product as the product has not been specified, safety data sheets (SDSs) need to be considered prior to all selections.

PRODUCTS/SUBSTANCES/RISKS	POTENTIAL HEALTH OR OTHER RISKS
Cement	Hand mixing may occur, 50kg bags are an ergonomic risk from handling. Potential eye, skin and respiratory irritant from dust exposure, chromates.
Cement/Silica dust	Caused by cutting, grinding, sanding of any concrete/granite/tiled surface/masonry.
Wood dusts	Caused by cutting, sanding, drilling wooden products treated Viz fencing poles.
Mineral turpentine	Applying paint and cleaning of paint brushes. Potential eye, nose, skin and respiratory irritant.
Paint	Splashes into eyes, onto skin causing irritation.
Cleaning materials	Use of disinfectants and sanitizers

7. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

7.1 Structure and Organization of H&S Responsibilities

An organogram will be available to identify key appointments and responsibilities on site and be kept up to date throughout the project.

7.1.1 Notification of Commencement of Construction Work

The PC shall notify the Provincial Director of the Department of Employment and Labour (DEL) in writing, in the form of the Annexure in the CRs. This shall occur within 7 days of the award of the contract. Proof of submission and/or receipt must be provided and kept in the H&S file.

Where changes to the conditions given in the submission are required (i.e. Contractors, completion dates, increase in workers), a revised Annexure A must be submitted to the DEL. The completion date is to include the defect and liability period. A copy of the notification form and any further submissions/correspondence must be kept in the H&S file.

8. HEALTH AND SAFETY PLAN FRAMEWORK

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

The current legislative requirements, SABS codes, SANS 10400 and any other standards that may guide practice are to be taken into consideration. The following aspects must be addressed in the SSHSP, as they have been identified in section 2, as playing a role in reducing the overall risk of a particular activity, or section of the project. The OHS Agent may from time to time request additions or systems as they relate to the works or legislative requirements at the time.

The PC is to prepare a site layout drawing to indicate at least the following to submit with the H&S plan:

- The positions of site offices of all Contractors, toilets, drinking water and worker rest areas;
- Indicate the positions of emergency planning and equipment and first aiders;
- Protection of plant and public, indicate parking, designated vehicular routes and access to site;
- Storage areas (materials and equipment, waste etc.), and
- Storage of materials and waste;

Such layouts are to be updated regularly throughout the project.

Cognisance is to be given to those permanent employees who are over 60 years of age, and younger workers who have underlying chronic health issues such as high blood pressure, diabetes, TB, HIV and AIDS etc. Specialised workers who are indispensable will need to be declared fit for work by an occupational health service provider.

Key appointments and succession planning is to be available to ensure those who are playing key roles are able to cover the project at all times.

The project Organogram is to be updated accordingly and signed and dated at each update.

8.1 Appointment of Competent Site Personnel

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

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

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

The SSHSP shall include the following, but is not limited to the following key appointments:

8.1.1 Construction Supervision

Competent supervisors will be appointed to manage part or all of the works and have training and/or experience in the area of responsibility, regarding CR 8.1, 8.2 and 8.7. All site supervisors must show evidence of appropriate training in H&S, and an understanding or training in areas of responsibility (i.e. risk assessments, method statements etc.).

Curriculum Vitae (CVs) are to be submitted for approval by the Principal Agent, and/or Client. The Supervisor will be held responsible for the safety of working teams and subordinates, housekeeping and stacking and storage of materials.

8.1.2 Construction Health and Safety Officer

The PC shall employ at least one competent, CHSO for the duration of the contract. The CHSO's CV is to be submitted for approval by the OHS Agent or the Client, at time of tender

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

Qualifications shall include at least Grade 12, SAMTRAC/NEBOSH/Diploma in H&S qualifications or similar, with exposure to civil engineering and similar road construction, with at least 5 years'

experience, given the level of project complexity preferably in an OHS capacity. He should also have undergone training in the Act and Regulations. In the case of a contract where contractors are employed, the CHSO must have a competence to evaluate the Contractors Health and Safety plans and be registered with the SACPCMP as a CHSO.

This person may not hold any other position on the site staff. The site supervisor may not act as the CHSO. The CHSO appointed for the project will be held responsible for all H&S on the project.

- Senior site staff and supervision, Contractors are to follow systems, instructions etc. given by the CHSO at all times;
- No new workers or Contractors may commence work without approval or following the SSHSP as submitted;
- No inductions of any Contractors' staff until the H&S documentation is approved by the CHSO, and
- The CHSO may not be removed or replaced without the approval of the H&S Agent, nor may the site be left unattended for more than 1 day without adequate, competent cover.

A monthly report of all H&S activities and incidents is required by the end of the first week of each month, or at a date agreed to by the OHS Consultant /Client and the CHSO. An example of the monthly report is attached as an Annexure D.

The CHSO will be responsible for collating the H&S documentation at the close out of the project in electronic format, properly labeled and filed. A list of the typical aspects that should be provided is available as Annexure B to this document. The PC is to ensure that all Contractors documentation follows the same requirements and closed out. H&S documentation must be completed and be available with the close out of the main contract, or as determined at the time.

Failure to do so will be considered a serious offence and penalties applied. Failure could also result in retentions or project certification not being issued to the PC.

8.1.3 Traffic Safety

The CHSO will be responsible for ensuring that daily traffic management is adequately managed.

No worker may be transported in, or on the rear of construction vehicles (bakkies included), or with plant and materials to, on, or from site. The number of passengers in any vehicle is limited to what is stated on the license disc. Vehicles used to transport workers to, from, or on site, shall have secure seats and be covered. No canopies may be used.

While this is difficult to control by the PC, induction training needs to include such information so workers can protect themselves. An on-site transportation policy needs to be available for how such transportation will be made safe and limit any opportunity for cross infection. Disinfection of vehicles needs to be determined where possible, and sanitizers provided prior to boarding and recommended during transit.

Each worker is to be encouraged to wear a cloth mask while travelling, and this needs to be enforced if using company transport.

Penalties will be issued for non-compliances noted.

8.1.4 Health and Safety Representatives and H&S meetings (if applicable)

H&S Representatives representing workers and Contractors are to be appointed following the start up of the project, irrespective of the number of workers on site. The appointed H&S Representatives are to be actively involved with H&S and will assist the CHSO and site management in meeting legislative duties.

All internal and external OHS Agent audits are to be discussed, as well as all H&S related issues at all internal production or progress meetings.

Failure to do so will be deemed to be a moderate offence.

8.1.5 Appointment of Competent Contractors and Suppliers, short term works (if applicable)

The PC is to ensure compliance with the Clients minimum standards and all legislative requirements. The same H&S standards required of the PC are to be applied to all Contractors. An index of all Contractors and Suppliers is to be on file and kept updated at all times. The PC is to ensure there is sufficient funding for H&S compliance by each Contractor.

The following minimum aspects are applicable to any Contractor appointed:

- The CHSO is to ensure a Contractors appointment and approval of H&S documentation at least seven (7) working days prior to commencing work;
- No Contractor may work under the PCs Compensation registration number. If required, the PC may assist SMMEs with their registration with the Compensation Commissioner (CC). However, such Contractors will not be able to commence work until proof of registration or Letter of Good Standing has been received, and
- No work may commence without Mandatory agreements between parties in place.

Suppliers or short-term works (surveying, repairs, servicing, deliveries etc.) also require H&S Management. Cognisance is to be taken of the level of risk involved and the CHSO is to ensure the level of H&S documentation is appropriate and appropriately managed.

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

9. GENERAL RISK MANAGEMENT

9.1 Health Risks and Medical Surveillance

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

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

All permanent workers (including those of Contractors) are required to be in possession of a medical certificate of fitness prior to arrival on site that must be less than 12 months old. An exit medical will be required where the project exceeds 6 months in duration. Arrangements for keeping medical records for the required time are to be noted. A procedure for managing the medical records which require safekeeping for prescribed periods are to be addressed, specifically for the asbestos exposed workers.

Given the potential health risks the following aspects are to be included in each medical surveillance intervention:

- Full medical, surgical and occupational history;
- Full physical examination of all systems, and
- Referral if required for the management of identified health issues that may affect the worker.

Specific testing for existing conditions and limitations relative to exposure could include, but are not limited to:

- Audiometry (hearing tests);
- Spirometry (lung function tests) are not to be done until deemed safe to do so, and
- Any other tests identified as relevant from chemical or specifically identified risks of exposure

Failure to do so will be considered a serious offence.

10. Training

Training of site personnel in H&S in the revised areas of work is required, mainly through induction between the Client and specific groups of employees. The CHSO is to determine training requirements and to report on needs or completed training in their reports and audits.

Records of all training, and acknowledgement of such training by attendees must be kept. Comprehensive records of all employees under the PCs control attending induction or any other training throughout the project shall be included. Amendments to statutes, the SSHSS, PSHSP, policies, procedures, method statements etc. shall require that all those affected shall undergo the relevant re-training.

10.1 Site Induction and other training

The PCs shall ensure that all employees, and contractors have undergone the induction programme for visitors or contractors, or any other that is deemed necessary.

Appropriate time must be set-aside for training (induction and other) for all employees. No person will be able to commence work or visit the site where the induction has not been done.

All employees and visitors on site from either the Client or the PC shall carry the proof of induction training in form of an induction card. Client Induction is valid for a year from the date it was conducted and thereafter refresher induction shall be re-scheduled at least one month before the induction period expires.

Both parties shall keep a database of all records pertaining to induction and will inform Contractors of pending expiry though the overall responsibility of maintaining current induction cards still lies with the principal contractor. All induction cards issued must be returned on completion of the project to the Issuer.

Toolbox talks to be conducted outdoors when possible, in order for persons to maintain social distancing. Where inclement weather does not allow for this, toolbox talks to be conducted with smaller groupings of workers in a sheltered area large enough to maintain social distancing.

10.2 Noise Risks

All plant from plant hire companies (suppliers) or that of the PC is to come to site with the appropriate testing completed and be compliant with the Noise Induced Hearing Loss Regulations. Plant identified that has not been tested and marked for noise emissions will result in having to be tested or removed from site. Failure to do so within a reasonable time will result in such plant being removed from site.

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

10.3 Asbestos Work

Only a registered asbestos contractor may do work which entails asbestos material. An Approved Inspection Authority must be consulted and Asbestos regulations complied to.

Failure to do so will be considered a serious offence.

11. Emergency Procedures

A simple emergency plan and procedure that is appropriate to the risks is required prior to commencement on site. It is advised that the system should be simple and easy for any worker to follow. The plan may be adapted should new information or risks are identified.

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

Appointment of a competent emergency response co-ordinator

- Fire, public injury, asbestos;
- Falls from heights;

- Serious injury to workers (medical or work-related), and
- Any other major risks identified during risk assessments

The emergency plan is to ensure the inclusion of local service providers. Such arrangements should be made with these persons prior to the commencement of the project. The general principals of emergency management are to be applied as it applies to the hierarchy of control and management.

11.1 Fire, First Aiders and First Aid Equipment

At least 1 first aider will be trained to level 1. First aiders shall be always available and accessible on site and be able to work as a team when responding to any emergency on the project. The number of First aiders will be determined by the complexity and exposed risks of the project, not numbers of workers.

Contractors are expected to ensure compliance and provide/manage their own first aiders and equipment. Appropriately stocked first aid kits are to be available at all times and to assure continual availability and access on site.

Fire extinguishers will be appropriate for the risk and in sufficient numbers to deal with the type of fires that could occur. All mobile plant is to have fire extinguishers. Hot work permits are required for any such activities.

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

11.2 Incident Management and Compensation Claims

All incidents and accidents are to be investigated. All serious incidents involving any form of disabling injury or fatality are to be reported to the Principal Agent/Client /OHS Agent immediately. This shall be confirmed in writing following the incident. Full details are to be included in each site meeting or when the Client visits site. A summary of incidents is to be included in the monthly report.

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

12. Personal Protective Equipment (PPE) and Clothing

The PC is to provide a procedure as an addendum to indicate how PPE is managed within the Company. The wearing of the identified SANS approved PPE at all times is non-negotiable and is to be linked to the risk assessments. The PC shall ensure that all workers (Including Contractors) are issued with and shall wear:

- Hard hats;
- Protective footwear;
- Eye protection;
- Hearing protection;
- Reflective jackets (no bibs);
- At least 3 cloth masks (for general wear);
- Respiratory protection (minimum of FFP2) or as deemed required by the AIA, and
- Any other necessary PPE identified from SDSs and/or risk assessments.

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

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

Failure to comply will result in penalties being applied.

13. Occupational Health and Safety Signage

On-site H&S signage is required as well as standard H&S information. Signage shall be posted up at fixed or temporary working areas, or other potential risk areas/operations. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended. Signage is to be noted on the site drawings indicating where fixed/temporary signage is required and appropriate to the risks identified in risk assessments.

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

Failure to comply will result in penalties being applied.

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

A simple, formal induction programme is to be submitted as an addendum for approval with the H&S plan. Inductions must be carried out for all workers and visitors (including Client, Designers) to the site.

Daily, pre-task training is required to ensure workers are familiar with the risks and H&S measures of the work or tasks to be done. Records to be kept in the H&S file.

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

15. Management of Plant and Equipment

The CHSO will ensure control of all plant and equipment, including daily monitoring, prior to commencing work. Full lists of hired and own plant are to be available at the OHS Consultant /Client audit. All daily inspection records are to be kept in the H&S file, or Contractors where plant and equipment is brought onto site. Registers are not to be more than 1 week behind.

Only competent, fit plant operators are to be used. Medical certificates of fitness are required for all operators.

Any plant or slings used to lift plant or material require annual load testing by an AIA, and all certificates must have the testers LMI/E number. Operators are to be adequately trained and certified to operate mobile cranes or crane trucks. Certificates and registers are to be placed in the H&S file.

Failure to do so will be considered a serious offence.

16. Excavations (if applicable)

A procedure for managing excavations is to be provided as an addendum to the SSHSP describing how excavations are to be managed.

A competent person is to be appointed for managing all excavations. A permit system is to be available and used for all excavations. All equipment and ground conditions to be checked daily, and prior to work commencing.

Excavations should preferably not be open beyond what can be closed daily. Where excavations need to remain open, all excavations are to be properly protected. Adequate stakes with 1m high demarcation and berms/spoil are required to be a safe distance from the edge of the angle of repose. Candy tape may not be used to demarcate excavations. Cognisance is required of the surrounding area and increased levels of protection are required where work is in communities, near schools and clinics or churches.

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

17. Working at heights (if applicable)

A fall protection plan is to be available and supplied as an addendum to the H&S plan. The fall protection plan must be appropriate for the project. Proof of competency must be on file for the Fall Protection Plan Developer and the appointment of a Fall Protection Supervisor with competency to be

on file. Method statements, appropriate risk assessments, safe work procedures and training (all employees are to be in possession of a valid working at heights certification) are to be available prior to work commencing.

The focus for working at height shall include fall restraint systems where possible except during assembling or dismantling top components or where it is not deemed safe. The relevant SANS codes are to be applied as they apply to the works and the project, such as:

- SANS 10085
- SANS 10333 (parts 1-3)

Should part of the works be contracted out, competent Contractors are to be appointed and submit documentation according to the project requirements. The PC is to note if such work is to be contracted to specialists in the H&S Plan. the plan is to be developed and work managed by a competent person for the duration of the project. The following aspects must be included:

- The public or users of buildings are to be protected at all times by way of hoarding, barricading or fencing
- Notices to be posted
- Restrictions or stoppage when weather conditions are deemed hazardous
- Permit system for working at heights
- Prevention of falling tools or equipment
- Link to emergency plan regarding rescue

All workers are to be in possession of valid certificates of fitness that extend for the duration of the works. Note the requirements in the section relating to medical surveillance.

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

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

18. Cranes and lifting equipment (if applicable)

Lifting devices such as mobile cranes might be used during the project for deliveries, and moving of supplies or equipment,

Appropriate documentation must be made available for the cranes and operators. Method statements, risk assessments, safe work procedures and training are to be available prior to work commencing. A procedure for managing loads and lifting must be made available as an addendum to the H&S Plan.

Chains, slings and webbing to have valid safe working load certification on file, should the documentation not be on site, the operation may be stopped, and fines imposed until such documentation may be delivered.

19. Temporary Works (Scaffolding, support work, formwork) (if applicable)

Temporary works must be properly designed and signed off by the PCs competent person for all temporary scaffolds, support work or formwork. In these instances, a competent person is defined as one who has sufficient experience in the design of the type of temporary work in question to be able to assess the design. The appropriate competent persons are to be appointed to manage and monitor such works to the satisfaction of the Engineer and OHS Agent. Records and registers are to be properly completed and kept in the H&S file. If temporary works are to be erected by a Contractor, this must be notified to the Principal Agent/OHS Agent.

Failure to do so will be considered a serious offence.

20. Auditing

Frequency of external auditing by the OHS Agent or Client will be bi-monthly to conform to the requirements of the Construction Regulations. The site will be inspected, and the documentation audited relative to the activities and H&S plan. The CHSO of the PC must accompany the Client, or the H&S Agent, on all audits and inspections.

The PC will ensure that all their Contractors are audited on a monthly basis, dependent upon the time to be spent on the site. Audit frequency may be increased if Contractors are not performing adequately. Audit results will be acted upon and non-conformances and penalties issued where deemed appropriate. The Client, Designer or OHS Agent may act or require further outcomes if non-compliances are noted or unsafe acts are noted on site.

Internal audits are to include site conditions as well as ensuring H&S files are appropriate, and compliant. Comprehensive audit reports are to be made available the format of the audit reports will be reviewed by the H&S Agent.

The PC will be audited using a template as supplied in the tender document. The audit template will be adjusted from time to time relative to the activities on site. A similar process is to be used by the PC when auditing their Contractors on site. Compliance with legislative requirements and the systems provided by the PC to manage the H&S on site will be measured. Full compliance is required. Time limits for corrective actions will be set and must be adhered to.

Failure to address findings or non-conformances will be considered a serious offence.

21. Communication and Meetings on Site

All H&S communication during the project between the OHS Consultant and the PC will be done through the Principal Agent and be in writing, including the issue and responses to non-conformances and H&S audit results.

Failure to address issues timeously will be considered a serious offence.

22. Care of Workers on Site (Welfare)

Adequate toilets, clean, safe drinking water and weather protected shelter will be afforded workers at all times. Toilets will be within reasonable distance of workers, or placed with each working team in safe, with reasonable privacy.

Hand washing facilities, disinfectants and sanitizers will be provided across the site at common areas and entrances to work areas.

Failure to ensure compliance will be considered a serious offence, work will be stopped if non-conformances noted until corrected.

23. HEALTH AND SAFETY FILE

The documentation submitted and approved following the awarding of the contract will be used to form the H&S file. The H&S file is required to be laid out in a logical manner, and documentation filed within the file is to be easily accessible.

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

- The SSHSS;
- The SSHSP and the approval by Client;
- Appointment by Client;
- Mandatory agreement with Client;
- Notification of construction work;
- A record of all working drawings, calculations and design where applicable;
- Detailed list of Contractors with contact details, appointments, Mandatories etc., H&S specifications issued;

- Record of Competencies (CVs) and appointments;
- Training Records;
- Permits;
- Method statements;
- Risk assessments;
- Safe work procedures;
- Emergency and injury management;
- Safety data sheets
- Medical surveillance records;
- Registers;
- Records of audits, minutes etc.;
- Plant lists;
- Temporary electrical installations, and
- Employee records (who is on site).

24. NON-CONFORMANCES

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

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

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

25. Failure to Comply with Provisions

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

- (i) A penalty as shown in the Table above shall be deducted for each and every occurrence of non-compliance with any of the requirements of the SSHSS,
- (ii) In addition, a time-related penalty of R500,00 per hour over and above the fixed penalty may be deducted for non-compliance to rectify any non-conformance within the allowable time after a site instruction to this effect has been given by the Designer. The site instruction shall state the agreed time, which shall be the time in hours for reinstatement of the defects. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.

26. Public safety

The Principal Contractor shall ensure at all times that staff, and general public are aware of the dangers and risks involved whilst construction is taking place.

- Safety signage / posters shall be posted at all areas where construction work is taking place;
- Edges, excavations, stockpile areas, material storage areas, will be demarcated and no entry signage appended;

- Safety talks with employees shall be done, all employees shall be involved in keeping the site safe;
- CLO shall be given talks to do with the community members who are directly involved;
- A record of all training shall be kept, and indemnity documents shall be signed by those attending the safety talks.
- Community unrest shall be handled by the local SAPS. CLO shall assist the Contractor should the need arise.
- No visitors to site are allowed unless proper arrangements are made.

CLOSE OUT REQUIREMENTS

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















































Health and Safety close out file requirements include:

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

Defect and Liability Period

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

A copy drawing records for the as-builts are to be placed on file by the Designers once complete

Project		PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2 BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT - AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE		Principal Contractor Responsible Person:				BASELINE RISK ASSESSMENT																																																																																																																										
Compiled By		Mthethwa Nolwazi		Signature																																																																																																																														
Date of Assessment		09 February 2023		Responsible Manager		Tinashe Kamupira																																																																																																																												
				Signature																																																																																																																														
PROBABILITY INDEX	5	Almost certain to inevitable	SEVERITY INDEX - INJURY/DISEASE (I)	5	Fatal	SEVERITY INDEX - PRODUCTION (P)	5	No production	SEVERITY INDEX - ENVIRONMENT (E)	5	Permanent effects	SEVERITY INDEX COST (C)	5	> R500 000	FREQUENCY INDEX	5	Hazard permanently present	PROBABILITY VALUE X SEVERITY VALUE X FREQUENCY VALUE /125 = TOTAL SCORE (%)																																																																																																																
	4	Probable		4	Permanent to Slight Disability		4	Long term 2 years		4	R100 000 - R499 999		4	Hazard arises every week																																																																																																																				
	3	Improbable		3	14 Days with complete recovery		3	Med - 6 months to 1 year		3	R10 000 - R99 999		3	Hazard arises every month																																																																																																																				
	2	Less than even chance		2	Medical attention 14 Days with complete recovery		2	Short term - 1 day to 6 months		2	R1 000 - R9 999		2	Hazard arises every year																																																																																																																				
	1	High improbable		1	First aid only		1	Loss of 1 man shift		1	R0 - R999		1	Hazard arises every 5 years																																																																																																																				
<table border="1"> <tr> <th colspan="4">Risk Value</th> <th colspan="14">PPE Requirement & Safety Signs</th> </tr> <tr> <td>A</td> <td>80 - 100%</td> <td colspan="2">Very High Risk</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> <td>G</td> <td>H</td> <td>I</td> <td>J</td> <td>K</td> <td>L</td> <td>M</td> <td>N</td> <td>O</td> </tr> <tr> <td>B</td> <td>60 - 79%</td> <td colspan="2">High Risk</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>40 - 59%</td> <td colspan="2">Medium Risk</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>D</td> <td>20 - 39%</td> <td colspan="2">Lower Risk</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>E</td> <td>0 - 19%</td> <td colspan="2">Low Risk</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>																		Risk Value				PPE Requirement & Safety Signs														A	80 - 100%	Very High Risk		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	B	60 - 79%	High Risk																	C	40 - 59%	Medium Risk																	D	20 - 39%	Lower Risk																	E	0 - 19%	Low Risk																
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Item	Task / General Activities			Hazard Identified		Risks i.r.t the hazard		Severity Index						PPE		Signs		Corrective Action		Responsible Person & Time Frame																																																																																																														
								I	P	E	C	Tot	Assess. Count	5 Points Each	Formula = points * 5	Probability Index	Frequency Index	Risk Score	Risk Value																																																																																																															
1	Site establishment			1. Improper loading and offloading practices 2. Traffic congestion 3. Movement of vehicles and Plant 4. Improper electric installation 5. Use of damaged portable electrical tools and hand tools 6. Dust 7. Clearing of ground (leveling) 8. Social / Community Disruption 9. Contractors / Service Providers working on site without being approved by Client or client representative 10. Truck Crane Operations		1. Health & safety (I) 2. Cost (C) 3. Productivity (P) 4. Environment (E)		4				4	1	5	125	5	5	100	80%	Mandatory or as per requirement	Site Specific Construction Sign at site entrance	1. Appointed spotter (flagperson) to be in position wearing reflective vest and whistle to assist Truck driver or Plant operator with movement on site. 2. Clear all bystanders away from operations - Barricade area and post warning signage - Only Authorised workers/persons to enter construction area 3. Appointed competent Banksman (Rigger) to oversee all lifting operations • Pre-lift checks to be done on lifting material, and recorded on a Checklist, any deviations must be recorded and reported to Construction manager. • Slings and chain blocks to be checked prior lifting operations and to have valid load test certificate. Lifting truck to also be in possession of a load test certificate and driver to be appointed in writing with valid competency. 3. All electrical installations to be conducted by a competent appointed person and COC's to be obtained when necessary. 4. Power tools to be inspected by a competent person, pre-check inspection to be conducted, power tools to be recorded on inspection register 5. Social facilitators to ensure community are aware of Construction work before Site establishment. 6. Only Competent appointed Contractors or Service Providers will be authorised to work on the site. 7. Dust Control measures to be implemented continuously at the site laydown area, watering the areas and roads on site. 8. All operators must be appointed to operate and inspect the specific plant he is competent in operating. Medical fitness and competencies for operators must be valid and available on site. 9. Site Establishment Risk Assessment and Safe working Procedure / Method Statement to be communicated to all workers	Principal Contractor																																																																																																											
								Total Average Risk Value																																																																																																																										

2	Manual Loading and Offloading - Manual Handling (Ergonomics)	1. Improper manual loading and off loading procedure 2. Nip & Pinch Points 3. Poor Communication 4. Slipping & Tripping Hazards 5. Employee handling materials / equipment that is too heavy to lift 6. Materials / equipment or tools falling	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>1</td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>45%</td></tr></table>	1. Health & safety (I)	3			3	1	5	125	5	5	75	60%	2. Cost (C)			3	3	1	5	125	5	5	75	60%	3. Productivity (P)		2		2	1	5	125	5	5	50	40%	4. Environment (E)			1	1	1	5	125	5	5	25	20%	Total Average Risk Value										45%	Mandatory or as per requirement	Signage Posted at Designated Storage Areas	1. Manual handling / lifting Safe work Procedure and Risk Assessment to be communicated to all workers on site. (Keep proof of communication in safetyfile) 2. Workers assisting each other to lift must communicate with each other to ensure safe lifting and lowering of items. 3. Before offloading or handling any materials, equipment or tools, ensure walkways are clear and free from tripping hazards. 4. Workers to assist each other if intended load to be lifted exceeds 25kg (perperson). 5. Workers / Supervisors to ensure materials, equipment and tools are securewhen offloading. 6. When manual lifting the correct procedure must be used, workers to liftloads using their legs and not their back.	Principal Contractor
1. Health & safety (I)	3			3	1	5	125	5	5	75	60%																																																							
2. Cost (C)			3	3	1	5	125	5	5	75	60%																																																							
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4. Environment (E)			1	1	1	5	125	5	5	25	20%																																																							
Total Average Risk Value										45%																																																								
3	Lifting Operations - (includes truck crane, mobile crane, Lifting Machinery as per DMR 18(11))	1. Incompetent Operator 2. Unsafe Lifting Machine (Substandard) 3. Man - Machine interface 4. Defecting Lifting equipment(slings, chains, ropes etc) 5. Incorrect lifting equipment usedfor specific operations 6. Uneven surfaces 7. Surrounding structures and other machinery or equipment 8. Incompetent Rigger 9. Incliment Weather (high winds, lightning) 10. Poor ground conditions	<table><tr><td>1. Health & safety (I)</td><td>5</td><td></td><td></td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>70%</td></tr></table>	1. Health & safety (I)	5			5	1	5	125	5	5	125	100%	2. Cost (C)			4	4	1	5	125	5	5	100	80%	3. Productivity (P)		3		3	1	5	125	5	5	75	60%	4. Environment (E)			2	2	1	5	125	5	5	50	40%	Total Average Risk Value										70%	Mandatory or as per requirement	Warning Signage to be Posted at Lifting area	1. Only appointed competent operator will be authorised to operate lifting machinery (Competency must be valid) 2. Lifting Machine must be inspected before use, and finding to be recorded on checklist, any deviations must be recorded and reported to supervisor. 3. Load test certificate and maintenance schedule (Service history) must be available and valid for the lifting machine to be used 4. All lifting equipment must be inspected before use and findings to be recorded on a checklist, any deviations must be recorded and reported to supervisor. Load test for all lifting equipment must be valid and available onsite. 5. Appointed / competent rigger to indicate the correct lifting equipment to beused. Rigger to use a whistle as communication method when lifting is takingplace to warn surrounding areas. 6. Operator to inspect work area before work, to identify any unsafe ground conditions or uneven surfaces. Operator to ensure outrigger are used with base plates to level the lifting machine. 7. Lifting operations will not be allowed in windy conditions or when raining. 8. SWP & Risk assessment to be communicated to all involved with lifting operations 9. Lifting area to be barricaded with solid barricading and warning signage tobe posted. No other work operations will be allowed in close vicinity with the lifting operations 10. Ensure 3 point contact when climbing on and off the lifting machine 11. Lifting equipment to be clearly and conspicuously marked with the maximum mass load (MML) that it is designed to carry safely. When the MMLvaries with the conditions of use, the table of maximum loads should be usedby the driver/operator. 12. Lifting equipment be fitted with a brake or other applicable device capableof holding the MML. This brake or device must automatically prevent the downward movement of the load when the lifting power is interrupted;	Principal Contractor
1. Health & safety (I)	5			5	1	5	125	5	5	125	100%																																																							
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4. Environment (E)			2	2	1	5	125	5	5	50	40%																																																							
Total Average Risk Value										70%																																																								
4	Exposure of underground services	1. Underground water lines 2. Underground Electrical cables 3. Manual Excavations 4. Machine Excavations	<table><tr><td>1. Health & safety (I)</td><td>5</td><td></td><td></td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>70%</td></tr></table>	1. Health & safety (I)	5			5	1	5	125	5	5	125	100%	2. Cost (C)			4	4	1	5	125	5	5	100	80%	3. Productivity (P)		3		3	1	5	125	5	5	75	60%	4. Environment (E)			2	2	1	5	125	5	5	50	40%	Total Average Risk Value										70%	Mandatory or as per requirement	Warning Signage to be Posted at excavated area	1. Scanning devices to be used prior any excavation issues in order to determine live services and avoid electrocution or damage to existing waterlines. 2. Drawings can be used to identify any underground services (If drawings are available)	Principal Contractor
1. Health & safety (I)	5			5	1	5	125	5	5	125	100%																																																							
2. Cost (C)			4	4	1	5	125	5	5	100	80%																																																							
3. Productivity (P)		3		3	1	5	125	5	5	75	60%																																																							
4. Environment (E)			2	2	1	5	125	5	5	50	40%																																																							
Total Average Risk Value										70%																																																								

5	Mechanical and Hand Excavations/Backfilling	<p>1. Unsuitable ground conditions for excavation work that may lead to excavation collapse</p> <p>2. Man machine interaction,</p> <p>3.Dust generation</p> <p>4. Noise generation (especially during rock breaking)</p> <p>5. Unbarricaded excavations/trenches</p> <p>6. Damage to existing services during excavations</p> <p>7. Oil spillages causing ground contamination</p> <p>8. Incompetent Operator</p> <p>9. Substandard Machinery used for excavation.</p> <p>10. Unsafe / selfmade hand tools used</p> <p>11. Working in direct sun / Heat stress</p>	1. Health & safety (I)	5		5	1	5	125	5	5	125	100%	
2. Cost (C)					4	4	1	5	125	5	5	100	80%	
3. Productivity (P)				3		3	1	5	125	5	5	75	60%	
4. Environment (E)					3		3	1	5	125	5	5	75	60%
Total Average Risk Value														
												75%		
			Mandatory or as per requirement											
			Warning Signage to be Posted at excavated area Unauthorised entry Prohibited										<p>1. Shore/brace excavations to prevent caving/falling in and provide access ladder. Soil dumped at least 1m away from edge of excavation and no material to be kept closer to the edge of excavation.</p> <p>2. Traffic control to be managed to prevent collision of mobile plant as well as collision with personnel.</p> <p>3. Dust suppression methods to be used when required and employees to be provided with dust masks when required.</p> <p>4. In residential areas noisy activities to be conducted at timings specified by laws.</p> <p>5. Excavations guarded/barricaded/lighted after dark in public areas and when there is no work conducted. All excavations are subject to daily inspections by a competent appointed person. Excavations must be kept open to the minimum, do not leave open for long periods.</p> <p>6. Scanning devices to be used to identify underground services prior excavation works, in order to prevent cable damage and possible electrocution.</p> <p>7. Spill kit to be used for any Chemical spillages on site.</p> <p>8. Only competent / Appointed operators authorised to operate machinery (must have valid Competency, medical and PDP)</p> <p>9. Machinery must be inspected before use, findings to be recorded on a checklist, any deviations must be recorded and reported to a supervisor. Service / maintenance schedule / history must be available for the specific machinery.</p> <p>10. SWP & Risk Assessment to be communicated to all workers involved.</p> <p>11. All hand tools must be inspected and recorded on a checklist. NO SELF-MADE tools will be allowed.</p> <p>12. Workers working in direct sun / heat must take regular water breaks to ensure they stay hydrated</p> <p>13. Excavation work must be carried out under the supervision of a competent person who has been appointed in writing.</p> <p>14. Before excavation work begins the stability of the ground must be evaluated.</p> <p>15. Every excavation must be provided with means of access that must be within 6 metres of any employee within the excavation at any time. Should ladders be utilised for this purpose they should be duly secured</p> <p>16. Only workers declared medically fit are allowed to work inside an excavation, Proof of Medical must be valid and available on site.</p>	Principal Contractor
6			1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	
2. Cost (C)					4	4	1	5	125	5	5	100	80%	
3. Productivity (P)				3		3	1	5	125	5	5	75	60%	
4. Environment (E)					2		2	1	5	125	5	5	50	40%
			Speed Limit										<p>1. All construction vehicles and mobile plant have to comply with Construction regulations and Driven Machinery Regulations. Other construction vehicles used must have a valid roadworthy certificate</p> <p>2. Employees to be transported to and from work in a safe manner, never to be carried</p>	

	Construction vehicles and mobile Plant operations	<p>1. Construction vehicles not roadworthy</p> <p>2. Employees transport facilities not roadworthy</p> <p>3. Mobile plant used in the project unsafe or substandard</p> <p>4. Intoxicated operator</p> <p>5. Vehicles left unattended when not operated</p> <p>6. Speeding</p> <p>7. Overloading vehicles or Plant</p>		<div>Total Average Risk Value</div> <div>65%</div>	Mandatory or as per requirement	<p>at the back of bakkies and trucks.</p> <p>3. Mobile plant operating on site to fully comply with CR 23. Maintenance / Service history must be available on site and Used in accordance with their design and intention for which they were designed</p> <p>4. Random alcohol and drug tests to be introduced and maintained</p> <p>5. Ensure vehicles are isolated when not in operation, Construction vehicles and mobile plant left unattended after hours adjacent to roads and areas where there is traffic movement must be fitted with lights, reflectors or adequate barricades to prevent moving traffic from a sudden emergency, or to come into contact with the parked construction vehicles and mobile plant. In addition construction vehicles and mobile plant left unattended after hours must be parked with all buckets, booms etc. full lowered, the emergency brakes engaged and, where necessary, the wheels chocked, the transmission in neutral and the motor switched off and the ignition key removed and stored safely.</p> <p>6. Operators to drive according to the required speed limit on site and on public roads.</p> <p>7. All drivers must be appointed and must have a valid drivers license and PDP/Competency certificate</p> <p>8. Vehicles or plant not to exceed the prescribed weight limit of the plant or vehicle.</p> <p>9. Construction Vehicle to be Fitted with adequate signalling devices to make movement safe including reversing; Fitted with two head and two tail lights that is in good working condition whilst operating under poor visibility conditions.</p> <p>10. No loose tools, material etcetera is allowed in the driver and/or operators compartment/cabin nor in the compartment in which any other persons are transported.</p> <p>11. The construction site must be organised to facilitate the movement of construction vehicles and mobile plant in such a manner that pedestrians and other vehicles are not endangered. Traffic routes to be suitable, sufficient in number and adequately demarcated.</p>	Principal Contractor
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7	Hot works (Grinding, Cutting, Welding, Drilling, Flame cutting, Soldering)	<div>1. Incompetent employees conducting hot works</div> <div>2. Improper storage of welding material</div> <div>3. Hot works conducted in view of employees</div> <div>4. Unsafe/ damaged equipment used</div> <div>5. Sparks</div> <div>6. Fire</div> <div>7. Hotwork near flammable materials</div> <div>8. Unsecured / unsafe storage of cylinders</div> <div>9. Substandard PPE used</div> <div>10. Overhead Hotwork operations</div> <div>11. Hot works in wet conditions</div> <div>12. Incorrect Discs used when cutting</div> <div>13. No Guards in Place when cutting / Grinding.</div> <div>14. Incorrect fittings used when connecting pipes to cylinders</div> <div>15. Guages not working on cylinders</div> <div>16. No fire fighting equipment or fire fighter available</div> <div>17. Hot work area not barricaded</div>	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>65%</td></tr></table>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)		3	3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Total Average Risk Value										65%	Mandatory or as per requirement	Warning Signage to be posted at Designated Hotwork area	<div>1. Only competent workers with the required skills and knowledge will be appointed to operate such machinery like grinders, welding machines, cuttingtorch etc.</div> <div>2. Gas cylinders when used to be safely stored and to be secured, when not inuse, in a cool place, upright position and locked store room.</div> <div>3. All hot works to be conducted in an enclosed place away from public and employees conducting other activities. Welding screens to be placed at welding areas and solid barricading used to close off areas</div> <div>4. All equipment used for Hot works must be inspected before use, all findingsto be recorded on a checklist and any deviation must be recorded and reportedto a supervisor, all guards must be in place and correct blades/ discs or drill bits to be used.</div> <div>5. If conducting hot works near flammable materials or the bush, spark containment must be used, for example fire blankets, welding screens andwetting the areas with water.</div> <div>6. Fire extinguishers must be placed near areas where hot works are conducted, and a trained competent appointed fire fighter to be availableonsite.</div> <div>7. SABS approved PPE to be issued and used on site. Task specific PPE is required for Hot work activities, for example welding helmet, face shield whencutting, safety glasses, dust masks, welding apron etc.</div> <div>8. No Overhead Hotworks will be allowed, if Hot work is required at height it should be done from a approved scaffold or MEWP. Then the area below should be barricaded to prevent workers from entering that area.</div> <div>9. Hot work will not be allowed in wet conditions, electrical cables must bemade safe and free from water.</div> <div>10. All cylinders used onsite must be fitted with the correct fittings and clampswhen connecting the hoses. All gauges must be in good working condition.</div> <div>11. All new vessels must be checked for leaks, leaking vessels should NOT beused. Equipment must be identified/numbered and entered into a register.</div>	Principal Contractor
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																																				
2. Cost (C)		4	4	1	5	125	5	5	100	80%																																																				
3. Productivity (P)		3	3	1	5	125	5	5	75	60%																																																				
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																																				
Total Average Risk Value										65%																																																				
8	Limited recourses to conduct all task	<div>1. Contractual non compliance</div> <div>2. Schedule and cost over run on project</div>	<table><tr><td>1. Health & safety (I)</td><td>1</td><td></td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>50%</td></tr></table>	1. Health & safety (I)	1		1	1	5	125	5	5	25	20%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)		4	4	1	5	125	5	5	100	80%	Total Average Risk Value										50%	Mandatory or as per requirement		<div>1. Client to ensure that contractor is well aware of current scope definition aswell as the requirements stipulated in the tender specifications.</div> <div>2. Contractor to ensure compliance on set specifications from client</div>	Principal Contractor											
1. Health & safety (I)	1		1	1	5	125	5	5	25	20%																																																				
2. Cost (C)		4	4	1	5	125	5	5	100	80%																																																				
3. Productivity (P)		4	4	1	5	125	5	5	100	80%																																																				
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9			<table><tr><td>1. Health & safety (I)</td><td>5</td><td></td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>2. Cost (C)</td><td></td><td>5</td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table>	1. Health & safety (I)	5		5	1	5	125	5	5	125	100%	2. Cost (C)		5	5	1	5	125	5	5	125	100%	3. Productivity (P)		3	3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%		Scaffold	<div>1. No damaged or unsafe scaffold materials allowed to be used for erecting of scaffold.</div> <div>2. Workers to assist each other when lifting and handling of scaffold materials,gloves must be worn to prevent pinch point on hand and fingers.</div> <div>3. Only appointed / competent scaffold erector to erect and dismantle scaffold,Proof</div>												
1. Health & safety (I)	5		5	1	5	125	5	5	125	100%																																																				
2. Cost (C)		5	5	1	5	125	5	5	125	100%																																																				
3. Productivity (P)		3	3	1	5	125	5	5	75	60%																																																				
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																																				

	Scaffolding	<p>1. Unsafe scaffold materials used</p> <p>2. Offloading and Loading of scaffold material.</p> <p>3. Incompetent scaffold erectors</p> <p>4. Incompetent scaffold Inspector</p> <p>5. Substandard scaffold, not as per SANS 10085</p> <p>6. Uneven surfaces / Unstable surfaces</p> <p>7. Incliment weather conditions</p> <p>8. Unsafe access</p> <p>9. Unsafe stacking and storage of scaffold materials</p> <p>10. Stacking and storage of materials on top of scaffold platform</p> <p>11. Overhead Powerlines</p> <p>12. Unsafe / damaged safety harnesses used</p>		Total Average Risk Value	75%	Mandatory or as per requirement	<p>of competency must be valid and available on site.</p> <p>4. Only appointed / competent scaffold inspector to inspect and approve scaffold. Proof of competency must be valid and available on site.</p> <p>5. Scaffold must be erected by competent person as per SANS 10085 standard. Scaffold must then be inspected by a competent inspector and record all findings on a checklist, deviations must be recorded and reported to scaffold supervisor.</p> <p>6. Ground must be inspected stability before scaffold can be erected. If ground is stable scaffold can be erected, base jacks must be used to level the scaffold.</p> <p>7. All scaffold work must be stopped when its raining due to the slippery surface, scaffold work can only continue if scaffold is dry and scaffold supervisor / inspector has inspected scaffold and approved it.</p> <p>8. Stacking of materials on scaffold will only be allowed with the approval of the scaffold supervisor, after inspecting the height and weight of stacked materials. All materials must be removed daily on end of shift.</p> <p>9. All scaffold materials must be stacked neatly in a safe manner</p> <p>10. NO scaffold work will be allowed near overhead powerlines.</p> <p>11. SWP & Risk Assessment for scaffold work must be communicated to relevant and all involved with scaffold work.</p> <p>12. All safety harnesses must be inspected before use, all findings must be recorded on a checklist, any deviations must be recorded and reported to supervisor. COC for harness must be available in safety file.</p> <p>13. Workers must be trained on the usage of safety harnesses and working at height. (Proof of competency must be available)</p> <p>14. All workers working on scaffold must be medically fit (proof of valid medical must be available in the form of annexure 3. Medical must include fit for work at height.</p>	Principal Contractor
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10	Stacking and storage of material & Housekeeping	1. Unstable stacking of goods/ materials / Unsafe Stacking Procedures 2. Stacking & Storage area not identified and demarcated 3. Pinch Points 4. Environmental contamination from spillages 5. Snakes 6. No clear walkways at stacking and storage areas 7. Unauthorised entry 8. Poor waste removal 9. Unstable Aggregate or Sand	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr></table> <div>Total Average Risk Value</div> <div>55%</div>	1. Health & safety (I)	3		3	1	5	125	5	5	75	60%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)	2		2	1	5	125	5	5	50	40%	4. Environment (E)		3	3	1	5	125	5	5	75	60%	Mandatory or as per requirement	Signage Posted at Designated Storage area - Unauthorised entry prohibited	1. Sufficient space of stacking of material to be provided, housekeeping to be maintained and cleaning of areas to be maintained. 2. Stacking and storage areas to be barricaded to prevent unauthorised entry 3. All contaminated ground must be removed and disposed at a registered waste facility. 4. Workers to be aware of snakes, toolbox talks to be done for the awareness of snakes in surrounding area, If snakes are found on site, a snake handler must be contacted to remove snakes safely. 5. All walkways at stacking and storage area must be kept clean and free from tripping hazards 6. Waste must be removed on a regular basis to a registered waste facility, proof must be kept in the safety file on site. 7. Housekeeping on site must be done on a daily basis, all rubble must be removed and placed at the designated waste area. 8. Aggregate or soil should be stacked at a reasonable height and not close to any machinery or equipment. 9. The principal contractor to ensure that: - A competent person is appointed in writing to supervise all stacking and storage on a construction site; - The height of any stack does not exceed 3 times the base unless stepped back at least half the depth of a single container at least every fifth tier or the approval of an inspector of the Department of Labour has been obtained to build the stacks higher with the aid of a machine. (The operator of the machine must be protected against items falling from overhead or off the stack and no items may overhang);	Principal Contractor
1. Health & safety (I)	3		3	1	5	125	5	5	75	60%																																									
2. Cost (C)		3	3	1	5	125	5	5	75	60%																																									
3. Productivity (P)	2		2	1	5	125	5	5	50	40%																																									
4. Environment (E)		3	3	1	5	125	5	5	75	60%																																									
11	Offloading construction Materials	1. Tip truck reversing over personnel. 2. Vehicle to vehicle collisions 3. Man machine interaction, 4. Exposure to dust 5. Incompetent Operator 6. Unauthorised to offload 7. Incorrect plant used for offloading	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table> <div>Total Average Risk Value</div> <div>60%</div>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)	3		3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Mandatory or as per requirement		1. Trucks to be equipped with reverse sirens. 2. Draft, implement and maintain a proper traffic management plan. 3. Exert dust suppression as far as reasonable. Ensure that the correct/adequate PPE is supplied and employees have received training on the use of them. 4. Flag Person to be available to direct traffic onsite. 5. Correct Plant to be used to offload different materials 6. Plant operator to be appointed with valid competencies to be available onsite 7. Suppliers of materials must be authorised to offload materials, All workers, visitors or suppliers must be INDUCTED for the specific site. 8. All offloading of construction materials or equipment must be Supervised and Authorised by Appointed Construction Manager.	Principal Contractor
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																									
2. Cost (C)		3	3	1	5	125	5	5	75	60%																																									
3. Productivity (P)	3		3	1	5	125	5	5	75	60%																																									
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																									
12	Working near overhead powerline	1. Sagging KV line 2. Roof inclining near the KV LINE 3. Scaffolding erected close to the KV Line 4. Untrained employees working near the KV line 5. Construction Vehicles or plant operations near overhead powerlines	<table><tr><td>1. Health & safety (I)</td><td>5</td><td></td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>2. Cost (C)</td><td></td><td>5</td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>3. Productivity (P)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table> <div>Total Average Risk Value</div> <div>80%</div>	1. Health & safety (I)	5		5	1	5	125	5	5	125	100%	2. Cost (C)		5	5	1	5	125	5	5	125	100%	3. Productivity (P)	4		4	1	5	125	5	5	100	80%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Mandatory or as per requirement		1. Only approved authority employees to work near overhead power line. 2. Allowed distance to work near overhead powerline to be determined by relevant authorities including Eskom thereafter employees to be made aware of the hazards and risks associated 3. No scaffolding to be erected close to the overhead powerline 4. No Construction vehicles to be operated within 10m of overhead powerlines, unless declared safe by Competent Authority 5. Safe working Procedure and Risk Assessment must be communicated to those employees exposed to working near overhead powerlines 6. Trained and Competent Spotters / Flagperson must be present at ALL times when plant is operational near overhead powerlines.	Principal Contractor
1. Health & safety (I)	5		5	1	5	125	5	5	125	100%																																									
2. Cost (C)		5	5	1	5	125	5	5	125	100%																																									
3. Productivity (P)	4		4	1	5	125	5	5	100	80%																																									
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																									

13	Use of portable electrical tools and hand tools (Including use of Portable lights)	1. Unsafe, sub-standard and/or defective equipment used 2. Untrained employees using portable electrical tools	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>60%</td></tr></table>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)		3	3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Total Average Risk Value										60%	Mandatory or as per requirement	<p>1. Portable electrical tools and equipment includes every unit that takes electrical power from a 15 ampere plug point and is moved around for use in the workplace i.e. drills, saws, grindstones, portable lights, etcetera. In addition electrical appliances such as fridges, hotplates, heaters, etcetera must be inspected regularly but at least on a weekly basis and maintained to the same standards as portable electrical tools and appliances.</p> <p>2. The use, inspection and maintenance of portable electrical tools and equipment must be governed by the following:</p> <ul style="list-style-type: none">- Regular inspections by a competent person appointed in writing;- Inspection results must be recorded in a register;- Only competent authorised persons are allowed to use portable electrical tools and equipment; and- The correct protective equipment is worn/used whilst operating portable electrical tools and equipment. <p>3. These equipment -</p> <ul style="list-style-type: none">- Must be maintained in good condition at all times to prevent an electrical shock to the user;- The main source should incorporate an earth leakage protection device or receive power through a double wound transformer or be double insulated and clearly marked as such; and- All equipment must be fitted with a switch to allow for safe and easy starting and stopping. <p>4. The following requirements to be applied with when portable lights are utilised (such as for illumination at stop-go points at night):</p> <ul style="list-style-type: none">- Must be fitted with a robust non-hygroscopic non-conducting handle;- Metal parts which may become live must be protected against contact;- The lamp must be protected by a strong guard;- The cable lead-in must withstand rough handling;- A register be kept for each piece of equipment with findings of regular inspections undertaken to evaluate the condition of these lights;- Inspections must be undertaken that concentrate on at least the plug, cord, switch, guard and any obvious faults; and- When used in wet/damp/metal container conditions, it must be protected. <p>5. Risk Assessment and Safe working Procedure for the operation of task specific Portable electrical tools must be communicated to those operating and exposed to hazards when using portable electrical tools</p>	Principal Contractor	
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																																				
2. Cost (C)		3	3	1	5	125	5	5	75	60%																																																				
3. Productivity (P)		3	3	1	5	125	5	5	75	60%																																																				
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																																				
Total Average Risk Value										60%																																																				
14	Illumination during night works	1. Personal injury due to poor illumination at night 2. Damage to equipment 3. Unauthorised Work at Night	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>1</td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>40%</td></tr></table>	1. Health & safety (I)	3		3	1	5	125	5	5	75	60%	2. Cost (C)		2	2	1	5	125	5	5	50	40%	3. Productivity (P)		2	2	1	5	125	5	5	50	40%	4. Environment (E)		1	1	1	5	125	5	5	25	20%	Total Average Risk Value										40%	Mandatory or as per requirement	<p>1. Proper illumination to be available during night works</p> <p>2. If any Work requires to be conducted at night sufficient lighting should be supplied.</p> <p>3. All activities to be conducted at night must be approved by Construction Manager with guidance from competent Safety Professional</p>	Principal Contractor	
1. Health & safety (I)	3		3	1	5	125	5	5	75	60%																																																				
2. Cost (C)		2	2	1	5	125	5	5	50	40%																																																				
3. Productivity (P)		2	2	1	5	125	5	5	50	40%																																																				
4. Environment (E)		1	1	1	5	125	5	5	25	20%																																																				
Total Average Risk Value										40%																																																				
15	Use and Storage of flammables	1. Unsafe use and/or storage of flammables could result in fires or explosions 2. Unsafe stacking and Storage of flammable could result in spillages	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>55%</td></tr></table>	1. Health & safety (I)	3		3	1	5	125	5	5	75	60%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)		2	2	1	5	125	5	5	50	40%	4. Environment (E)		3	3	1	5	125	5	5	75	60%	Total Average Risk Value										55%	Mandatory or as per requirement	Flammable material storage area must have warning signs (No Smoking, Flammable materials)	<p>1. The principal contractor to ensure that:</p> <ul style="list-style-type: none">- No person is required or permitted to work in a place where there is the danger of fire or an explosion due to flammable vapors being present unless adequate precautions is taken- Flammables stored on a construction site are stored in a well-ventilated, reasonably fire-resistant container, cage or room that is kept locked with consistent access control measures in place and sufficient fire fighting equipment installed and fire prevention methods practiced for example proper housekeeping;- Containers (including empty containers) to be kept closed to prevent fumes/vapors from escaping and accumulating in low lying areas- Welding and other flammable gases to be stored segregated as to the type of gas and empty and full cylinders <p>2. All flammable materials / containers must be clearly marked/labelled</p>	Principal Contractor
1. Health & safety (I)	3		3	1	5	125	5	5	75	60%																																																				
2. Cost (C)		3	3	1	5	125	5	5	75	60%																																																				
3. Productivity (P)		2	2	1	5	125	5	5	50	40%																																																				
4. Environment (E)		3	3	1	5	125	5	5	75	60%																																																				
Total Average Risk Value										55%																																																				

16	Hazardous Chemical Substances	1. Improper storage of chemicals, transportation and handling 2. Unsafe use and/or storage of flammables could result in fires 3. Spilled chemical substances may also impact negatively on the health of employees and negative implications for the environment including legal and claim exposures. 4. Health hazards when ingesting, inhaling or skin contact with HCS	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td colspan="11">Total Average Risk Value</td><td>55%</td></tr></table>	1. Health & safety (I)	3			3	1	5	125	5	5	75	60%	2. Cost (C)			3	3	1	5	125	5	5	75	60%	3. Productivity (P)		2									40%	4. Environment (E)			3		3	1	5	125	5	5	75	60%	Total Average Risk Value											55%	Mandatory or as per requirement	Hazardous Chemical Substance storage area must have warning signs (No Smoking, Hazardous or Flammable materials)	1. The principal contractor to ensure that: - Employees receive the necessary information and training to be able to use, handle and store hazardous chemical substances safely - The risk assessments required in terms of Construction Regulation 9 include employee exposure to hazardous chemical substances and that the necessary measures be taken to protect persons from being detrimentally affected by hazardous chemical substances present or used in the workplace, This Risk Assessment must be communicated to all employees exposed to HCS. - Suppliers provide the necessary information in the form of material safety data sheets regarding hazardous chemical substances required to ensure the safe use, handling and storage of these substances, This MSDS must be available on site and communicated to employees exposed to the HCS. - An up-to-date list is kept on site of hazardous chemical substances stored and used together with the material safety data sheet of the said hazardous chemical substances - Hazardous chemical substances containers be clearly marked as to the contents and main hazardous category e.g. "Flammable" or "Corrosive" - No person eats or drinks in a hazardous chemical substances workplace; - Hazardous chemical substances waste is disposed of safely in terms of hazardous waste disposal requirements at a registered facility. 2. HCS to be properly stored in a cool locked store room or storage area 3. Employees handling hazardous chemical substance to be trained. Possible preventive measures to be put in place in order to prevent harm to employees. PPE to be used when necessary.	Principal Contractor
1. Health & safety (I)	3			3	1	5	125	5	5	75	60%																																																									
2. Cost (C)			3	3	1	5	125	5	5	75	60%																																																									
3. Productivity (P)		2									40%																																																									
4. Environment (E)			3		3	1	5	125	5	5	75	60%																																																								
Total Average Risk Value											55%																																																									
17	Lack of communication between various parties involved.	1. Instructions not adequately followed through 2. Information not transmitted as supposed to 3. Schedule slippage due to rework	<table><tr><td>1. Health & safety (I)</td><td>2</td><td></td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>1</td><td></td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td colspan="11">Total Average Risk Value</td><td>35%</td></tr></table>	1. Health & safety (I)	2			2	1	5	125	5	5	50	40%	2. Cost (C)			2	2	1	5	125	5	5	50	40%	3. Productivity (P)		2		2	1	5	125	5	5	50	40%	4. Environment (E)			1		1	1	5	125	5	5	25	20%	Total Average Risk Value											35%	Mandatory or as per requirement		1. Implement and ensure a proper communication system between various parties involved. 2. Site meetings to be conducted on set intervals including integration between various parties	Principal Contractor
1. Health & safety (I)	2			2	1	5	125	5	5	50	40%																																																									
2. Cost (C)			2	2	1	5	125	5	5	50	40%																																																									
3. Productivity (P)		2		2	1	5	125	5	5	50	40%																																																									
4. Environment (E)			1		1	1	5	125	5	5	25	20%																																																								
Total Average Risk Value											35%																																																									
18	Temporary structure (Temporary works)	1. Inadequate designs 2. Incompetent formwork erectors and inspectors 3. Temporary structure collapse due to poor design 4. Unsafe access to elevated areas 5. Poor stacking and storage of Form work materials 6. Manual handling 7. Pinch points 8. Work at Fall Positions	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td colspan="11">Total Average Risk Value</td><td>70%</td></tr></table>	1. Health & safety (I)	4			4	1	5	125	5	5	100	80%	2. Cost (C)			4	4	1	5	125	5	5	100	80%	3. Productivity (P)		3		3	1	5	125	5	5	75	60%	4. Environment (E)			3		3	1	5	125	5	5	75	60%	Total Average Risk Value											70%	Mandatory or as per requirement	Areas where temporary structures are erected or demolished must be barricaded with warning signage posted	1. A contractor to appoint a temporary works designer in writing, to design, inspect and approve the erected temporary works. 2. Temporary works to be carried out under the supervision of a competent person appointed in writing. 3. To be erected by competent persons. 4. Temporary structure to be inspected by a competent person immediately, before, during and after the placement of concrete. After inclement weather or any other imposed load and at least on a daily basis until the temporary work has been removed and results recorded in a register. 5. All temporary works to be carried out as per Construction regulations 12. 6. Temporary work structures to be so designed, erected, supported, braced and maintained that they will be able to support any vertical or lateral load that may be applied. 7. No load to be imposed onto a structure that the structure is not designed to carry. 8. Temporary work to be erected in accordance with the structural design drawings for such temporary work and if there is any uncertainty, the designer must be consulted before proceeding with the erection/use of the temporary work. 9. The foundation or base upon which the temporary work is erected to be able to bear the weight and keep the structure stable. 10. Employees erecting temporary work to be trained in the safe work procedures for the erection, moving and dismantling of the temporary work. 11. Safe access and emergency escape to be provided for employees. 12. Only employees trained to work at height with a valid medical fitness to work allowed to erect temporary works	Principal Contractor
1. Health & safety (I)	4			4	1	5	125	5	5	100	80%																																																									
2. Cost (C)			4	4	1	5	125	5	5	100	80%																																																									
3. Productivity (P)		3		3	1	5	125	5	5	75	60%																																																									
4. Environment (E)			3		3	1	5	125	5	5	75	60%																																																								
Total Average Risk Value											70%																																																									

19	Working on Heights (Work in fall risk positions)	<div>1. Inadequate fall protection</div> <div>2. Employees not medically fit to work at height</div> <div>3. Workers not trained to work at height</div> <div>4. Falling objects</div> <div>5. Workers falling</div> <div>6. Inadequate / unsafe or damaged fall prevention equipment used</div> <div>7. Inclement Weather</div>	<table><tr><td>1. Health & safety (I)</td><td>5</td><td></td><td></td><td></td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td></td><td>5</td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td></td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table> <div>Total Average Risk Value</div> <div>75%</div>	1. Health & safety (I)	5				5	1	5	125	5	5	125	100%	2. Cost (C)				5	5	1	5	125	5	5	125	100%	3. Productivity (P)		3			3	1	5	125	5	5	75	60%	4. Environment (E)			2		2	1	5	125	5	5	50	40%	Mandatory or as per requirement	<div>1. Designate a competent person to be responsible for the preparation of a fall protection plan.</div> <div>2. Ensure that the Fall protection plan is implemented, amended and maintained. - FPP must be developed by a competent / appointed person, proof of competency must be available on site.</div> <div>3. Take steps to ensure continued adherence to the fall protection plan.</div> <div>4. The fall protection plan must include but not limited: A Risk assessment of all work carried out from a fall risk position, procedures and methods used to address all the risks identified.</div> <div>5. Appointed 16 (2) to ensure that employees comply with Construction regulations 10 Fall protection.</div> <div>6. As far as is practicable, any person working in a fall risk position will work from a stable platform, ladder or other device that is at least as safe as if he or she is working at ground level and whilst working in this position be wearing suitable fall arrest equipment to prevent the person falling from the platform, ladder or other device utilized. This fall arrest equipment will be, as far as is possible, secured to a point away from the edge over which the person might fall and the lanyard must be of such a length and strength that the person will not be able to move over the edge. Alternatively, any platform, slab, deck or surface forming an edge over which a person may fall may be fitted with suitable guard rails at two different heights as prescribed in SANS 10085 code of practice for the design, erection, use and inspection of access scaffolding.</div> <div>7. Employees working at height must be provided with a full body harness that will be always worn and attached above the wearer's head and the lanyard must be fitted with a shock absorbing device or the person must be attached to a fall arrest system that is approved by the Client.</div> <div>8. If no edge protection is not practicable or employee does not have a secured / approved anchor point for a lifeline a suitable catch net, which is able to sustain the weight of at least the average person working in a fall risk position, will be erected</div> <div>9. Employees working in a fall risk position will be trained to do this safely and without risk to their or other person's health and safety. Proof of competency must be available in safety file</div> <div>10. Where work on roofs is carried out, the risk assessment must take into account the possibility of persons falling through fragile material and openings in the roof.</div> <div>11. physical and psychological fitness of employees working fall risk positions (Medical fitness to work at height) must be valid and available on site.</div> <div>12. FPP, Risk Assessment and Safe working Procedures must be communicated to all workers working in a fall risk position.</div>	Principal Contractor
1. Health & safety (I)	5				5	1	5	125	5	5	125	100%																																														
2. Cost (C)				5	5	1	5	125	5	5	125	100%																																														
3. Productivity (P)		3			3	1	5	125	5	5	75	60%																																														
4. Environment (E)			2		2	1	5	125	5	5	50	40%																																														
20	Exposure to poisonous / Venomous or other dangerous animals, reptiles or insects	<div>1. Venomous snakes, insects / spiders in bushes, stacking areas and other confined spaces</div> <div>2. Poisonous insects</div> <div>3. Insects, reptiles and other animal bites, stings that causes allergic reactions</div>	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td></td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>2</td><td></td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table> <div>Total Average Risk Value</div> <div>60%</div>	1. Health & safety (I)	4				4	1	5	125	5	5	100	80%	2. Cost (C)				4	4	1	5	125	5	5	100	80%	3. Productivity (P)		2			2	1	5	125	5	5	50	40%	4. Environment (E)			2		2	1	5	125	5	5	50	40%	Mandatory or as per requirement	<div>1. The principal contractor to ensure that the following are duly adhered to:</div> <div>- the emergency procedure to be expanded to provide for the effective treatment of employees or other persons visiting exposed to bites or stings from poisonous animals and insects, i.e. the contact details of the nearest medical unit that could treat employees exposed to bites or stings be obtained and arrangements be made with this service provider on the procedures to be followed to ensure swift response when required;</div> <div>- confirmation to be obtained or made available from the nearest medical unit that they have anti venom reserved to treat employees or other persons visiting that may be exposed to snake bites or scorpion stings;</div> <div>- competent / appointed first aiders to be available to facilitate the treatment of employees or other persons visiting exposed to stings or bites;</div> <div>- the potential exposure posed by poisonous or venomous animals or insects and awareness thereof to be discussed with all employees as part of the toolbox talks and general awareness training and other persons visiting as part of the pre-site visit induction process</div> <div>2. If Snakes are located on site contact nearest snake handler to assist with removal of the snake. Do not attempt to remove snake if not trained.</div> <div>3. Emergency contacts to be freely available on site and in safety file.</div>	Principal Contractor
1. Health & safety (I)	4				4	1	5	125	5	5	100	80%																																														
2. Cost (C)				4	4	1	5	125	5	5	100	80%																																														
3. Productivity (P)		2			2	1	5	125	5	5	50	40%																																														
4. Environment (E)			2		2	1	5	125	5	5	50	40%																																														

21	Working in Inclement Weather	1. Exposed to thunder storms / lightning 2. Strong winds 3. Rain 4. Sand / dust storms 5. Extreme hot conditions	1. Health & safety (I)	4	4	1	5	125	5	5	100	80%
2. Cost (C)				4	1	5	125	5	5	100	80%	
3. Productivity (P)				3	1	5	125	5	5	75	60%	
4. Environment (E)				2	2	1	5	125	5	5	50	40%
Total Average Risk Value												
											65%	

22	Working in Confined spaces	1. Poor ventilation 2. Gasses present 3. Poor visibility 4. Employees unfit to work in confined spaces	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>50</td><td>40%</td></tr></table> <div>Total Average Risk Value</div> <div>60%</div>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)	2		2	1	5	125	5	5	50	40%	4. Environment (E)		2		2	1	5	125	5	50	40%	Mandatory or as per requirement	Confined Spaces must be barricaded with warning signage posted (Entry Prohibited or No Unauthorised entry)	<p>1. Principal Contractor to ensure confined space works comply to the following</p> <p>- Ventilation</p> <p>a) The confined space to be opened and allowed to ventilate for at least 15 minutes before entering the manhole. All open manholes to be barricaded and manned at all times.</p> <p>A gas monitor to be lowered to the bottom of the confined space with a rope to test the presence of any toxic/flammable gas. If any gas is detected, the space to be force ventilated by means of a blower for at least 15 minutes where after the air should be tested again. Under no circumstances may any space be entered while there is a toxic/flammable gas present.</p> <p>After the undertaking of the necessary work, the person in charge of the activities to confirm that all the employees are accounted for.</p> <p>- Entering a confined space</p> <p>a) When entering a confined space, the person entering the space to wear a safety harness and fully operational gas detector. A lifeline should be attached to the safety harness and a person on the surface should be in continuous contact with the person in the confined space. At least one person on the surface to be trained in basic first-aid (level 1) with proof of such training as well as a fully equipped first aid box available on site.</p> <p>b) No person shall remain within a confined space for a period of more than one hour at a time. A minimum of 5 minute rest periods on the surface to be taken after this period before re-entering.</p> <p>c) Should the alarm sound on the gas monitor, all employees to exit the confined space and the immediate area should also be evacuated immediately.</p> <p>The area to be properly ventilated and re-tested before re- entering the confined space. Professional support should be called for if necessary.</p> <p>d) Employees to be provided with flameproof lighting when entering a confined space with the possibility of flammable gases. No naked lights, smoking or unprotected electrical apparatus which may cause sparks, shall be permitted in any confined space or in its vicinity.</p> <p>- Training</p> <p>a) All employees that have to enter a confined space to be formally trained and confirmed competent before being required to enter such areas (new employees to complete this training and be declared competent before allowed to work in a confined space).</p> <p>b) Refresher courses to be attended by employees at least once every 2 years or immediately if new methodologies or equipment are adopted or acquired.</p> <p>c) Continuous onsite training (Safety moments / toolbox talks) and support by supervisory staff to be undertaken and enforced where required</p> <p>d) Competent person to conduct continuous gas monitoring of confined spaces</p> <p>2. Task Specific Risk Assessment / Safe working Procedure and Method Statement for Work activities in Confined space to be communicated to relevant employees. (Proof of communication to be available in safety file)</p>	Principal Contractor
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																									
2. Cost (C)		4	4	1	5	125	5	5	100	80%																																									
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4. Environment (E)		2		2	1	5	125	5	50	40%																																									
23	Public health & safety and Pedestrians access to site	1. Unsafe pedestrian access 2. Injuries to bystanding public or pedestrians 3. Public personal belongings or property damages	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>1</td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr></table> <div>Total Average Risk Value</div> <div>55%</div>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)	2		2	1	5	125	5	5	50	40%	4. Environment (E)		1	1	1	5	125	5	5	25	20%	Mandatory or as per requirement		<p>1. The principal contractor will be responsible for ensuring that non-employees affected by the construction work are made aware of the dangers likely to arise from said construction work as well as the precautionary measures to be observed to avoid or minimise those dangers. This includes among others:</p> <p>- Non- employees entering the site for whatever reason;</p> <p>- The surrounding community;</p> <p>- Public bystanders</p> <p>2. Appropriate signage must be posted to this effect and all employees on site must be instructed to ensure that non-employees are protected at all times.</p> <p>3. All non-employees entering the site must receive site applicable induction into the hazards and risks and the control measures for these.</p> <p>4. Safe demarcated walkway to be erected / conducted or displayed for visitors</p> <p>5. Pedestrian crossings to be conducted and utilized</p> <p>6. No Construction work near public vehicles.</p> <p>7. Construction area must be barricaded (No Danger tape) or fenced to prevent Public from entering work area.</p>	Principal Contractor
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																									
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24		1. Manual handling and lifting of rebar at ground level and to	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>3. Productivity (P)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table>	1. Health & safety (I)	3		3	1	5	125	5	5	75	60%	2. Cost (C)		2	2	1	5	125	5	5	50	40%	3. Productivity (P)	2		2	1	5	125	5	5	50	40%			<p>1. Employees to be provided with proper walkways during steel erection and never to walk on erected rebar</p> <p>2. Workers to be supplied with the required PPE for Steel fixing and cutting of steel</p>	Principal Contractor											
1. Health & safety (I)	3		3	1	5	125	5	5	75	60%																																									
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		elevated level. 2. Transportation of rebar on trailers 3. Sharp & pointed objects 4. Cutting of Rebar - causing sparks and fire 5. Use of unsafe or damaged pliers	4. Environment (E)	2	2	1	5	125	5	5	50	40%			rebar. 3. Truck drivers to ensure loads are sufficiently secured before transporting materials to site 4. Workers to ensure to use correct lifting procedure when lifting steel rebar. SWP for manual handling / ergonomics to be communicated to workers. 5. Cutting of Steel rebar to be conducted in a designated safe hot work area. 6. All tools and equipment to be used must be inspected and registered on a checklist, deviations must be recorded and reported to appointed supervisor.
	Steel work (Steel fixing / steel reinforcing)			Total Average Risk Value								45%	Mandatory or as per requirement		

25	Emergency Preparedness(Fire Prevention, First aid)	<p>1. Inadequate emergency Planning could result in the inability to effectively respond to emergencies</p> <p>2. Inadequate first-aid arrangements could impact negatively of the ability to respond to first-aid injuries or to stabilise injured employees or other persons that may require advanced health care.</p> <p>3. Inadequate fire prevention and protection measures may impact negatively on the ability to fight fires</p>	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td>3</td><td></td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="11">Total Average Risk Value</td><td>60%</td></tr></table>	1. Health & safety (I)	4			4	1	5	125	5	5	100	80%	2. Cost (C)			3	3	1	5	125	5	5	75	60%	3. Productivity (P)	3			3	1	5	125	5	5	75	60%	4. Environment (E)		2		2	1	5	125	5	5	50	40%	Total Average Risk Value											60%	Mandatory or as per requirement	Signage required for Location of First Aid Kit, First Aider on site, Location of Fire Fighting Equipment	<p>Emergency Preparedness</p> <p>1. The principal contractor to appoint a competent person to act as emergency controller and/or coordinator.</p> <p>2. The principal contractor to conduct an emergency identification exercise and establish what emergencies (such as health, safety, environmental, third party or community related actions etcetera) could possibly develop. Contractor must then develop detailed contingency plans and emergency procedures, taking into account any emergency plan that the project/site may have in place.</p> <p>3. The principal contractor and the other contractors must hold regular practicedrills of contingency plans and emergency procedures to test them and familiarise employees with them. Emergency evacuation points must be available and signage displayed</p> <p>First - Aid</p> <p>1. The principal contractor to provide first-aid equipment and have qualifiedfirst-aiders on site as required by General Safety Regulation 3 of the OHSACT.</p> <p>2. The contingency plan of the principal contractor to include arrangements forthe speedily and timeously transportation of injured and/or ill person(s) to a medical facility or getting emergency medical support to person(s) who may require it.</p> <p>3. The principal contractor to have firm arrangements with his contractors in place regarding the responsibility of these contractor's first-aid arrangementsas well as treatment of injured and/or ill employees.</p> <p>Fire Prevention and Protection</p> <p>The principal contractor to ensure that</p> <p>a) Sufficient and suitable storage of flammables is provided;</p> <p>b) employees are trained in the use of the fire fighting equipment and know how to attempt to extinguish a fire; (these employees must be appointed andproof of competency to be available on site.</p> <p>c) A sufficient number of employees are appointed and trained to act as an emergency team to deal with fires and other emergencies;</p> <p>d) Employees are informed regarding emergency evacuation procedures and escape routes this must be included in the induction of all workers and visitors.</p> <p>e) Emergency escape routes are kept clear at all times and clearly marked;</p> <p>f) Roll call is held after evacuation to account for all employees and to ensurethat no-one including visitors and disabled persons have been left behind;</p> <p>g) A clearly audible siren or alarm is fitted and regularly tested, if this is not practicable to the site , other method of warning employees must be used, forexample whistles.</p>	Principal Contractor
1. Health & safety (I)	4			4	1	5	125	5	5	100	80%																																																								
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Total Average Risk Value											60%																																																								
26	Site security and public protection	<p>1. Public gaining access to the construction site.</p> <p>2. Theft</p> <p>3. Vandalism</p>	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="11">Total Average Risk Value</td><td>55%</td></tr></table>	1. Health & safety (I)	3			3	1	5	125	5	5	75	60%	2. Cost (C)			3	3	1	5	125	5	5	75	60%	3. Productivity (P)		3		3	1	5	125	5	5	75	60%	4. Environment (E)			2	2	1	5	125	5	5	50	40%	Total Average Risk Value											55%	Mandatory or as per requirement	Construction Signage to be available at Site entrance / gate.	<p>1. Principal contractor to ensure the project is secure at all times. Accesscontrol to be maintained and no unathaurised entry to be permitted to theproject.</p> <p>2. When there are no activities on site and no personnel conducting works. The Project has to be left in a safe manner that the public can't gain accessand that all hazards are attended to prior vacating the site.</p> <p>3. Security should be available due to valuable materials and equipment thatmight be stored on site.</p>	Principal Contractor
1. Health & safety (I)	3			3	1	5	125	5	5	75	60%																																																								
2. Cost (C)			3	3	1	5	125	5	5	75	60%																																																								
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27	Ablution facilities	<p>1. Inadequate provision of welfare facilities may have negative implications on the health of employees and other persons as well as the environment</p>	<table><tr><td>1. Health & safety (I)</td><td>2</td><td></td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>1</td><td></td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="11">Total Average Risk Value</td><td>35%</td></tr></table>	1. Health & safety (I)	2			2	1	5	125	5	5	50	40%	2. Cost (C)			2	2	1	5	125	5	5	50	40%	3. Productivity (P)		1		1	1	5	125	5	5	25	20%	4. Environment (E)			2	2	1	5	125	5	5	50	40%	Total Average Risk Value											35%	Mandatory or as per requirement	Signage required for Men / Ladies bathroom / Changeroom and designated sheltered eating area	<p>Toilets</p> <p>a) Principal Contractor to provide toilets for each sex as required in terms ofthe National Building Regulations and Construction Regulation 30.</p> <p>b) Chemical toilets are allowed only if they are cleaned on a regular basis by registered contracted company. Toilets have to be provided at a ratio of at least 1 toilet per 30 employees</p> <p>Eating facility / area</p> <p>Principal Contractor to provide some form of eating facility sheltered from thesun, wind and rain must be provided.</p> <p>Living accommodation</p> <p>Where the site is in a remote location and transport to home is not readily available, reasonable and suitable living accommodation must be providedafter obtaining of the necessary permission from authorities and adhering torequirements such as Bylaws of the local municipality</p>	Principal Contractor
1. Health & safety (I)	2			2	1	5	125	5	5	50	40%																																																								
2. Cost (C)			2	2	1	5	125	5	5	50	40%																																																								
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Total Average Risk Value											35%																																																								

28	Safe guarding / Dealing with existing Structures	1. Damage to existing services and structures.	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="11">Total Average Risk Value</td><td>50%</td></tr></table>	1. Health & safety (I)	3			3	1	5	125	5	5	75	60%	2. Cost (C)			3	3	1	5	125	5	5	75	60%	3. Productivity (P)		2		2	1	5	125	5	5	50	40%	4. Environment (E)			2		2	1	5	125	5	5	50	40%	Total Average Risk Value											50%	Mandatory or as per requirement		1. Ensure identification off all existing services and structures before commencing with site establishment.	Principal Contractor
1. Health & safety (I)	3			3	1	5	125	5	5	75	60%																																																									
2. Cost (C)			3	3	1	5	125	5	5	75	60%																																																									
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Total Average Risk Value											50%																																																									
29	Demolition work (Including Blasting)	<p>1. Demolition undertaken in an unsafe manner could cause the structure being demolished to collapse with subsequent injuries and fatalities</p> <p>2. Inadequate managing of demolition debris could also result in injuries or health hazards to surrounding workers or public</p> <p>3. Unsafe / illegal transport of explosives</p> <p>4. Dust</p> <p>5. Incompetent Blaster</p> <p>6. Poor Planning and control of explosives</p> <p>7. Public not informed of blasting could cause panic in surrounding areas</p> <p>8. Blasting near surrounding building could result in damages to existing surrounded buildings (Vibrations)</p> <p>9. Unsafe / damaged Tools or equipment and mobile plant used when demolishing or Blasting (Compressor, Jackhammers, drills, TLB, Excavator, Bobcat and other construction vehicles)</p> <p>10. Wrong Connections of explosives for blasting a area</p> <p>11. Improper cover used to prevent fly rock</p> <p>12. Blasting near railroads,SAPS,Fire department</p>	<table><tr><td>1. Health & safety (I)</td><td>5</td><td></td><td></td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>2. Cost (C)</td><td></td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td></td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="11">Total Average Risk Value</td><td>70%</td></tr></table>	1. Health & safety (I)	5			5	1	5	125	5	5	125	100%	2. Cost (C)			4	4	1	5	125	5	5	100	80%	3. Productivity (P)		3		3	1	5	125	5	5	75	60%	4. Environment (E)			2		2	1	5	125	5	5	50	40%	Total Average Risk Value											70%	Mandatory or as per requirement	Blasting Notifications to be posted in community .	<p>1. Demolition work to be carried out under the supervision of a competent person who has been appointed in writing.</p> <p>2. A detailed structural engineering survey of the structure to be demolished to be carried out and a method statement on the procedure to be followed in demolishing the structure to be developed by a competent person, before any demolition to be commenced.</p> <p>3. As demolishing progresses the structural integrity of the structure to be checked at intervals as determined in the method statement by the appointed competent person in order to prevent any premature or uncontrolled collapse.</p> <p>4. Steps to be taken to ensure that where a structure is being demolished:</p> <ul style="list-style-type: none">- no floor, roof or any other part of the structure is overloaded with debris, material or equipment that would make it unsafe;- precautions are taken to prevent the collapse of the structure when any frame, support or reinforcement is cut or removed;- shoring or propping is applied where necessary;- no employee is required or allowed to work under unsupported overhanging material; and- the stability of an adjacent building, structure, road or services is maintained at all times. <p>5. The location and nature of any existing services such as water, electricity, gas etcetera to be established before any demolition is commenced with and any service that may be affected by the demolition must be protected and made safe for employees and other persons.</p> <p>6. Every stairwell in a building being demolished to be adequately illuminated.</p> <p>7. Convenient and safe means of access to be provided and maintained at all times.</p> <p>8. A catch platform or net to be erected over every entrance to the building or structure being demolished where the likelihood exists of material or debris falling on employees and/or persons entering and leaving and every other area where the likelihood exists of material or debris falling on employees and/or persons must be fenced or barricaded.</p> <p>9. No material to be dropped on the outside of the building unless the area into which it is dropped is fenced off or barricaded.</p> <p>10. Waste and debris only to be disposed from a height in a chute with the following design:</p> <ul style="list-style-type: none">- adequately constructed and rigidly fastened and secured;- inclined greater than 45 degrees and enclosed on all four sides;- fitted with a gate or control mechanism to control the flow of material that may not freefall down the chute;- discharged into a container or a barricaded area; and- demolition equipment may only be used on floors or slabs that are able to support it. <p>11. Principal Contractor to ensure compliance with relevant SANS standard and OHS Act (Explosives regulations)</p> <p>12. Blasting Contractor to document a Blasting plan for the specific site and area, this plan must include Risk Assessment, Method Statement / safe working procedure.</p> <p>13. Appointed Blasting contractor must appoint a competent person in the use of explosives. This person must have a valid Certificate of Registration with the SAPS that is signed by Local explosives inspector.</p> <p>14. Blasting Contractor to notify community on a specific date and time of Blasting.</p> <p>15. Blasting Contractor must supply a copy of their license to transport explosives by a vehicle.</p> <p>16. Blaster to ensure that all explosives are connected correctly, Blaster to complete Pre-Blast checklist.</p> <p>17. Blaster to establish if Soft cover will be used like ground or a blasting mat</p> <p>18. Principal Contractor to ensure wayleaves are done and available for Blasting</p>	Principal Contractor & Blasting Contractor
1. Health & safety (I)	5			5	1	5	125	5	5	125	100%																																																									
2. Cost (C)			4	4	1	5	125	5	5	100	80%																																																									
3. Productivity (P)		3		3	1	5	125	5	5	75	60%																																																									
4. Environment (E)			2		2	1	5	125	5	5	50	40%																																																								
Total Average Risk Value											70%																																																									

30	Installation of fence	fence. (Poor Ergonomics) -Offloading of fence poles and heavy wire rolls 2. Use of ladders 3. Use of scaffolding 4. Contact with underground services/ electricity 5. Fencing collapses on employees or surrounding property 6. Mixing and pouring of concrete 7. Use of unsafe / damaged tools.	1. Health & safety (I) 4 2. Cost (C) 4 3. Productivity (P) 3 4. Environment (E) 2	4 1 5 125 5 5 100 80% 4 1 5 125 5 5 100 80% 3 1 5 125 5 5 75 60% 2 1 5 125 5 5 50 40%	Total Average Risk Value 65%	Mandatory or as per requirement	1. Rolls of fence to be transported mechanically. 2. Proper PPE and suitable hand gloves to be provided to employees involved. 3. Ladders to be inspected by a competent person appointed in writing and to be well positioned and secure when in use. No wooden ladders to be used. 4. Tools to be inspected daily before work start. Faulty tools to be repaired or removed from site immediately. 5. Drawings / plans or Underground scans must be available for areas to be excavated to identify any underground services like electrical cables, water or sewer lines. 6. All fence poles to be inserted into the ground as per drawing requirements and to be secured with Concrete.	Principal Contractor
31	Concrete Works Concrete Mixing and Pouring (Manually and Mixer) and use of Concrete Pump	1. Concrete spillages 2. Use of hand tools 3. Oil spillages 4. Dust generation 5. incompetent operators 6. Miscommunication between operator and flagman 7. Mixer operating near excavation 8. Incompetent Concrete Pump Operator 9. Unsafe operation or control of Concrete Pump - Hoses / pipes moving around uncontrolled 10. Inhaling of Cement dust and skin contact with wet cement (cement Burns)	1. Health & safety (I) 4 2. Cost (C) 4 3. Productivity (P) 3 4. Environment (E) 2	4 1 5 125 5 5 100 80% 4 1 5 125 5 5 100 80% 3 1 5 125 5 5 75 60% 2 1 5 125 5 5 50 40%	Total Average Risk Value 65%	Mandatory or as per requirement	1. Concrete mixers to be regularly serviced in order to prevent breakdown leading to oil spillages. Spot checks to be done prior each shift. 2. All hand tools to be inspected by a competent person. 3. When concrete is being poured, concrete spillages to be prevented and plastic sheet to be placed on the ground when spillages cannot be prevented. 4. Concrete washout area to be created where concrete run off will be discharged. 5. A flagman must be well trained in order for him to be able to provide proper signals thus preventing employees being hit by a mixer. 6. Operators to be well trained and no unauthorized employees must operate the mixer. - Only Competent / Appointed operator to operate concrete Pump, Readymix Truck. Competency must be valid and available 7. Dust mask must be provided to employees handling cement as a last resource when dust cannot be controlled. If exposed to cement dust for long periods a breathing apparatus must be used. Workers exposed to Dry Cement or Wet Cement must be supplied with the minimum required PPE (Overalls, Gumboots, Safety Boots, PVC Gloves, Safety Glasses, Earplugs, if exposed to wet cement rain coats can be used. 8. Concrete readymix truck, Concrete Pump Truck and Concrete Mixers must keep a safe distance from excavation edges, when pouring into excavation flagman have to be more vigilant and a regular toolbox talks must be held. 9. Task specific risk assessment and safe working procedures for all activities must be developed and communicated. 10. Housekeeping must be done after each pour, concrete waste should be disposed at designated waste areas, Concrete Mixers, Readymix truck and Concrete Pump trucks to be cleaned after each use. 11. All plant or equipment used for concrete works must be inspected before use and findings recorded on a checklist, deviations must be reported to Construction manager / Supervisor	Principal Contractor
32	Construction Trades Painting Tiling Paving Brickwork Plastering Ceiling / roof works	1. Exposed to Work at height (From Ladders, Scaffold and MEWP) 2. Use, control and storage of HCS (Paint, Thinner, Silikon, Tile adhesive, Cement, Bonding agents) 3. Use/operating of Small plant / equipment (Compactor, Brick cutter, Concrete Mixer, Tile cutter, Grinders, SkillSaw / jigsaw) 4. Dust 5. Vibrations 6. Noise 7. Use of unsafe hand tools and portable electrical tools 8. Tools, equipment or materials falling from heights	1. Health & safety (I) 4 2. Cost (C) 4 3. Productivity (P) 3 4. Environment (E) 2	4 1 5 125 5 5 100 80% 4 1 5 125 5 5 100 80% 3 1 5 125 5 5 75 60% 2 1 5 125 5 5 50 40%	Total Average Risk Value 65%	Mandatory or as per requirement	1. All tools, machinery or equipment used in the different trades must be safe to use and be inspected on a daily or weekly basis, all findings must be recorded on a checklist and reported to Construction Manager / Supervisor. 2. Workers operating Small plant or Machinery must be appointed and must have the required skills and knowledge on operating certain plant or machinery. These operators must be medically fit. 3. Workers exposed to work at height, must have a valid medical fitness and work at height training. 4. Scaffold, Ladders and MEWP must be inspected before use. Scaffold erector, Scaffold Inspector, Ladder Inspector and MEWP operator must be appointed with valid competencies 5. Workers must be supplied with the CORRECT minimum required PPE for each specific task. 6. Workers exposed to long periods of vibrations and Noise must take regular breaks or workers to be changed regularly. 7. All trades specific Risk Assessments and Safe working procedures must be communicated to the relevant exposed workers. Proof of communication must be kept. 8. Supervisor / Construction Manager to ensure NO overhead activities from different trades or simultaneous operations from different contractor overhead.	Principal Contractor

C4 SITE INFORMATION

INDEPENDENT DEVELOPMENT TRUST

**PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE
QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF
EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND
RURAL DEVELOPMENT, NORTHWEST PROVINCE**

PART C4: SITE INFORMATION

INDEPENDENT DEVELOPMENT TRUST

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

C4 SITE INFORMATION

The Melton Research Farm site is situated approximately 116 km North West of Vryburg in the Matlosana District, North West Province. Remainder of the farm Melton 393 IM Southern District Municipality. It is surrounded by other farms and smallholdings. The nearest urban community is in Ganyesa. The site has a gentle slope in the south westerly direction. The site is accessed through a local gravel road connected to the R378.

The site coordinates are Latitude: - 26°29'40.94"S/ Longitude: 23°52'2.10"E

Figure 1: Locality Map





ADDENDUM TO CONTRACT DATA

To the

THE JBCC PRINCIPAL BUILDING AGREEMENT

NAME OF PROJECT:

**PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE
QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE &
DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE
DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST
PROVINCE**

INTRODUCTION

WHEREAS, the Independent Development Trust (“IDT”) as the Implementing Agent and on behalf of the Department: Agriculture and Rural Development, North West Province (“DARD”) made an Offer of Appointment and the Contractor has accepted such appointment subject to the conditions stipulated in the aforesaid Offer of Appointment Letter, which conditions include signing of the JBCC Agreement, Edition 6.2 (hereinafter referred to as “Main Agreement”).

AND WHEREAS, this addendum shall form part of the Main Agreement between the Employer and the Contractor.

1. ADDENDUM TO THE MAIN AGREEMENT

- 1.1 This Agreement will constitute an Addendum to the Main Agreement as contemplated herein;
- 1.2 The Terms of Reference, Accepted Proposal or Tender, Standard Conditions of Tender, Special Conditions of Tender and adjusted Priced Bills of Quantities shall form part of the agreement between the Contractor and the Employer;
- 1.3 This Addendum will be deemed to incorporate, with or without variation, all the provisions of the Main Agreement, unless the context clearly requires otherwise;
- 1.4 All words and phrases used in this Addendum which are defined in the Main Agreement, will bear the same meaning assigned to them in the Main Agreement; and
- 1.5 All references in the Main Agreement to “the/this Agreement” itself, will be deemed to be references also to the Main Agreement duly amended by this Addendum.

1.6 Interpretations and Definition

1.6.01 **Financial Implications** shall mean the variation amount over and above the awarded contract sum.

2. SPECIAL CONDITION

If there is any conflict between the contents or any part of this Addendum and the contents or any part of the Main Agreement and other annexures, the content of this Addendum shall prevail.

3. WAIVER OF CONTRACTOR'S LIEN

3.1 The Contractor hereby waives, in favour of the Employer, any lien or right of retention that is or may be held in respect of the Works to be executed on the Site.

3.2 The Employer, as an Organ of State, shall not be required to provide payment guarantees.

4. ASSIGNMENT OF RIGHTS OR OBLIGATIONS

4.1 Neither **party** shall assign or cede rights or obligations without the written consent of the other **party**, which consent shall not be unreasonable withheld.

4.2 Where the Contractor intend to cedes any right to monies due or to become due under this agreement as security in favour of a financial institution, a written consent in accordance with clause 4.1 above, shall be obtained from the Employer prior to entering into such cession.

4.3 Any cession entered into without the necessary written consent from the either party, shall be null and void.

- 4.4 The Employer shall not consent to a cession of monies due or to become due under this agreement as security in favour of a financial institution, unless such financial institution submitted to the IDT a Valid Tax Clearance Certificate, is registered as a credit provider in terms of the National Credit Act and as a vendor in the IDT's Vendor Management System.

5 INTERIM PAYMENT

- 5.1 The **Employer** shall, in accordance with clause 8.2.3 of the treasury regulation of March 2005, pay to the **Contractor** the amount certified in an interim **payment certificate** within **thirty (30) calendar days** of the date of submission of the **payment certificate**".
- 5.2 Default interest, where applicable, shall only be effective after the 31 calendar days of the date of receipt of the interim **payment certificate from the Principal Agent**.
- 5.3 The Employer shall be entitled to apply a set-off against a legitimate and liquid claim against the Contractor from which a valid invoice has been received.
- 5.4 The employer shall not make/effect any advance payment to the contractor.

6 TAX COMPLIANCE MEASURES

- 6.1 The Contractor hereby grant confirmation that SARS may, on on-going basis during the contract term, disclose the Contractor's tax compliance status to the employer.
- 6.2 Should the Contractor appoint a sub-contractor to execute a portion of a work in excess of the threshold (currently 25%) prescribed by the National Treasury, the Contractor must ensure that a sub-contractor is tax compliant and remains tax compliant for the full duration of the contract. The contractor shall obtain a written consent from its sub-contractors confirming that SARS may on on-going basis

during the contract term, disclose the sub-contractor's tax compliance status to the employer.

- 6.3 The Contractor shall submit a valid tax clearance certificate or tax compliance letter with a valid pin within 10 working days from the date of expiry of the tax clearance certificate. The Employer reserve the right to demand a valid Tax Clearance Certificate or Tac Compliance Letter prior to making any payment to the Contractor, should it become aware that the tax clearance certificated has expired.
- 6.4 Unless the Employer receive a written confirmation that the Contractor has challenged its tax compliance status with SARS, the Employer shall not process any payment to the Contractor, if 30 days has lapsed since the written notice bythe Employer and the Contractor has failed to remedy its tax compliance status.
- 6.5 Employer's non-payment of the Contractor's invoice in accordance with clause 6.4 above shall not absolve the contractor from performing its obligation in terms of the contract.
- 6.6 Unless the Employer receives a written confirmation that the Contractor or sub-Contractor has challenged its tax compliance status with SARS, the Employer shall be entitled to cancel the contract with the Contractor or instruct the Contractor to cancel its contract with the Sub-Contractor.
- 6.7 Where a Contractor is a JV, each party to a JV must be tax complaint and remains tax compliant for the full duration of the contract, failing which, the Employer shall invoke paragraph 6.4 or 6.6 above.

7. APPROVAL OF VARIATION ORDERS

- 7.1 Upon receipt of the Variation Order (VO), the Principal Agent must professionally consider the merits of the Variation Order and make a recommendation to the Employer.

- 7.2 The Principal Agent shall not have the power to approve any deviation or variation which has financial implications on the Employer without the necessary written approval of the Employer, except under emergency circumstances wherein failure to undertake the work may result in loss of life.
- 7.3 The Employer must communicate the approval of a Variation Order in writing to the Principal Agent and the Principal Agent shall, upon receipt of confirmation of the approval of the VO, issue the necessary Contract Instruction to the contractor to undertake the works.
- 7.4 The Contractor shall not commence with any Variation Order Works without the written approval of the Variation Order from the Employer, except under circumstances mentioned in paragraph 7.2 above.
- 7.5 Should the Contractor undertake the Variation Order Works without the necessary written approval of the Variation Order from the Employer, the Contractor shall be entirely liable for any financial and any related implications and hereby indemnify and hold harmless the Employer from and against any and all claims, actions, damages, liabilities, injuries, costs, fees, expenses, or losses, including and without limitation, reasonable attorney's fees and costs of investigation and litigation, whatsoever which may be incurred by, or for which liability may be asserted against, the Employer arising out of the Contractor's performance or non-performance of unauthorized works, but only to the extent caused by the negligent acts, errors or omissions of the Contractor.
- 7.6 The Contractor shall not accept any instructions from any party, including beneficiary Department, other than the Principal Agent.

8. JOINT VENTURE AGREEMENT

- 8.1 Should the Joint Venture Agreement be dissolved or any of the JV partner pull out of the JV Agreement for any reasons whatsoever, the Employer hereby reserve its right to terminate the contract with immediate effect.
- 8.2 Should the Employer decide not to terminate the contract upon the dissolution of the JV Agreement and the replacement JV partner does not meet the BBBEE threshold stipulated in the tender document, the IDT shall be entitled to cancel the contract with immediate effect.
- 8.3 Should the BBBEE status of the Joint Venture be changed to a lower rate than the bidding rate, based on legislation applicable at the closing date of the tender, the IDT shall be entitled to cancel the contract.

9. BREACH

- 9.1 In the event that the contractor: -
- 9.1.1 commits an act of insolvency; or
 - 9.1.2 is placed under a provisional or final winding-up or judicial management order; or
 - 9.1.3 is placed under or applied for business rescue; or
 - 9.1.4 makes an assignment of more than 25% of either its right and/or its obligation for the benefit of the third party without the written consent of the employer; or

9.1.5 the Contractor is registered or fails to renew his registration with the CIDB or changes directorship during the course of the project, resulting in the contravention of BBBEE statutory requirement; or

9.1.6 fails to satisfy or take steps to have set aside any judgment taken against it within 14 (Fourteen) business days after such judgment has come to its notice,

then the Employer will be entitled to terminate the Agreement on written notice.

10. SECURITY

10.1 The **employer** has selected the **security, in terms of clause 11.0**, which is a variable **construction guarantee**. This guarantee is to be issued by the **contractor**:

10.1.1 The **contractor** shall furnish the **employer** with a variable **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** within twenty-one (21) **calendar days** from the offer of appointment **date**;

10.1.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the variable **construction guarantee** to an amount equal to two per cent (2%) of the **contract value**;

10.1.3 Within twenty-one (21) **calendar days** of the date of **final completion** of the **works** the **employer** shall release the variable **construction guarantee** to the **contractor**;

10.1.4 Where the **employer** has a right of recovery against the **contractor**, the **employer** may issue a written demand in terms of the variable **construction guarantee**.

10.1.5 A variable **construction guarantee** shall only expire at **final completion** date.

10.1.6 In the event that the value of the **works** were to increase during the course of the contract by an amount of 15% or more of the **contract sum**, upon written request from the **principal agent**, the **contractor** shall immediately arrange to have the **construction guarantee** guaranteed sum increased accordingly, the verified cost of which shall be added to the **contract sum**.

Signed at on this the day of **2021**

AS WITNESSES:

1. _____

For and on behalf of the **Employer:**
(.....), in his/her
capacity as the

2. _____

For and on behalf of the **Employer:**
(.....), in his/her
capacity as the

Signed at on this the day of 2021

AS WITNESSES:

3. _____

4. _____

For and on behalf of the **Contractor:**

.....

in his/her capacity as

.....

, who hereby confirm that he/she is
duly authorized.

INDEPENDENT DEVELOPMENT TRUST

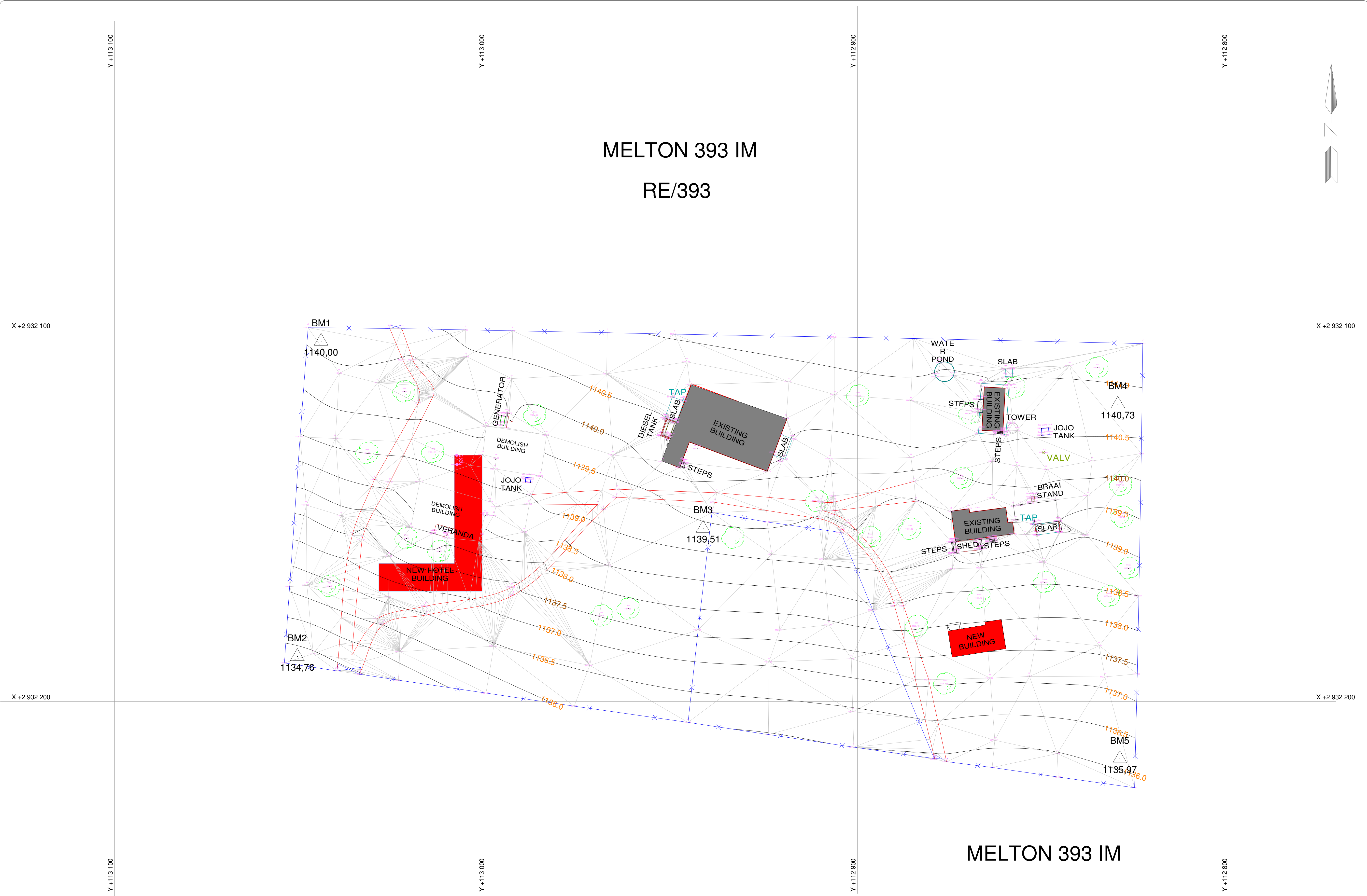
**PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE
QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE &
DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE
DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST
PROVINCE**

ANNEXURES

INDEPENDENT DEVELOPMENT TRUST

**PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE
QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE &
DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE
DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST
PROVINCE**

ANNEXURE A: ARCHITECTURAL DRAWINGS



NOTES

GENERAL NOTES

NO	REVISION	DATE

PRINCIPLE AGENT

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Quantity Surveys | Project Managers | Construction Managers
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The Reeds, Centurion, 0157

ARCHITECTS

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architecture | design | construction
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37 DF Malan Avenue | Lyttelton Manor
Centurion, 0157
www.studioe-design.co.za

CLIENT

idt
Independent Development Trust

PROJECT

**PROPOSED HOSTEL HOUSING +
MANAGE HOUSE FOR
MELTON_RESEACH_FARM**

DRAWING

SITE PLAN

PROJECT NO.

61.2022_NWDPW_MELTON_RESEACH_FARM

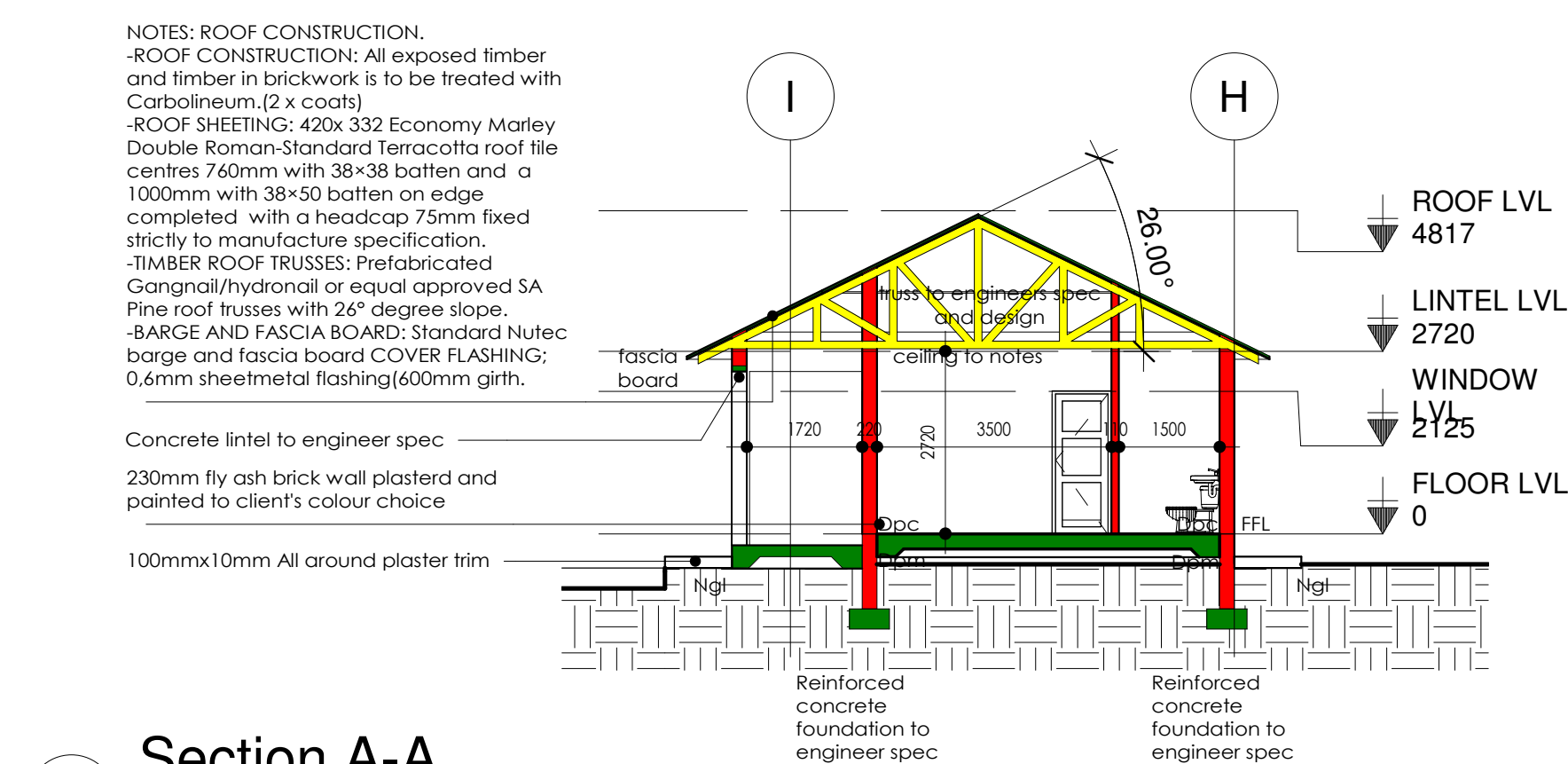
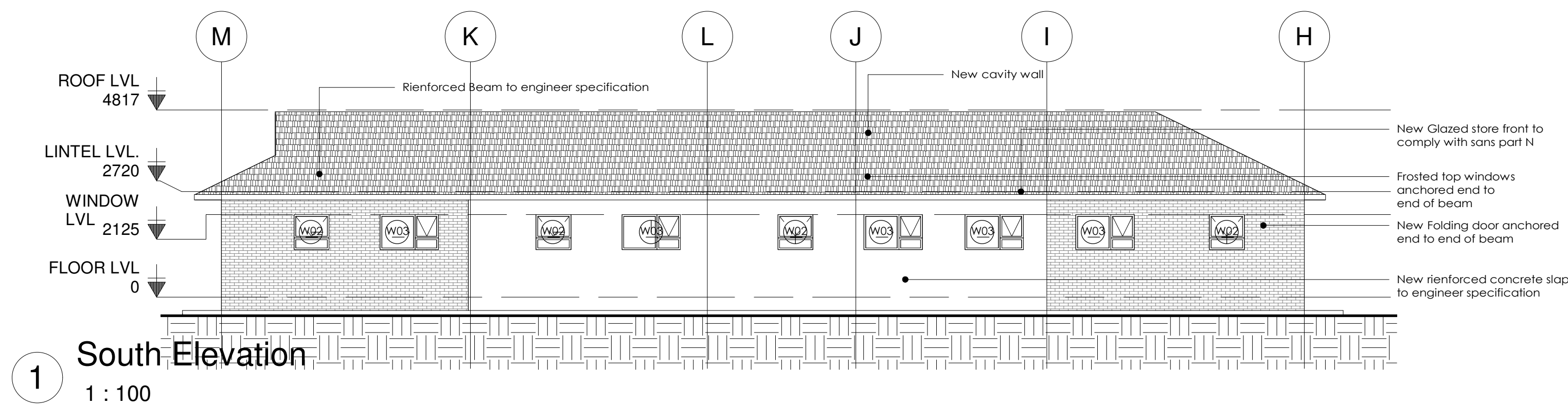
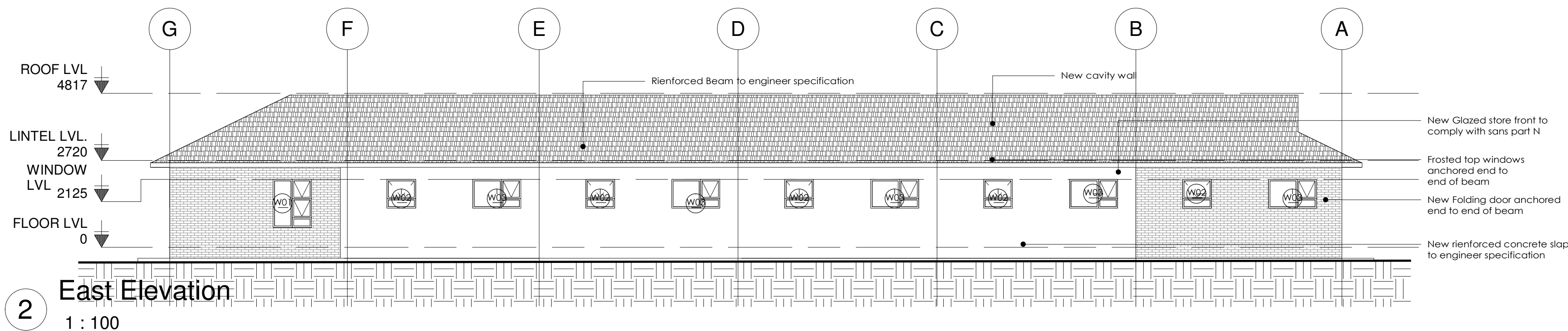
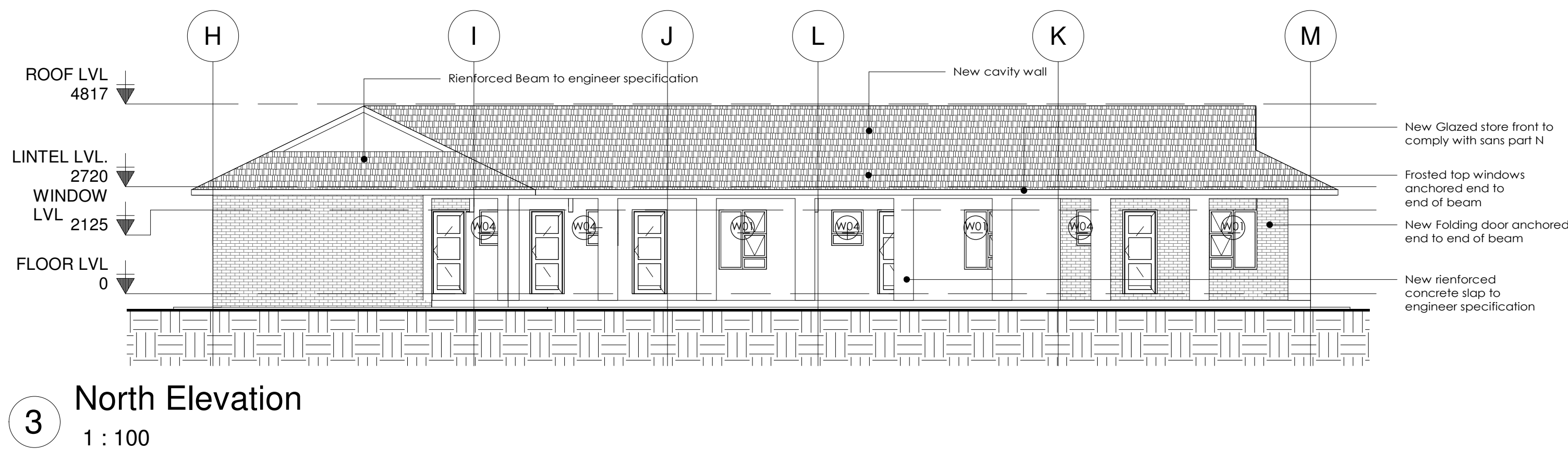
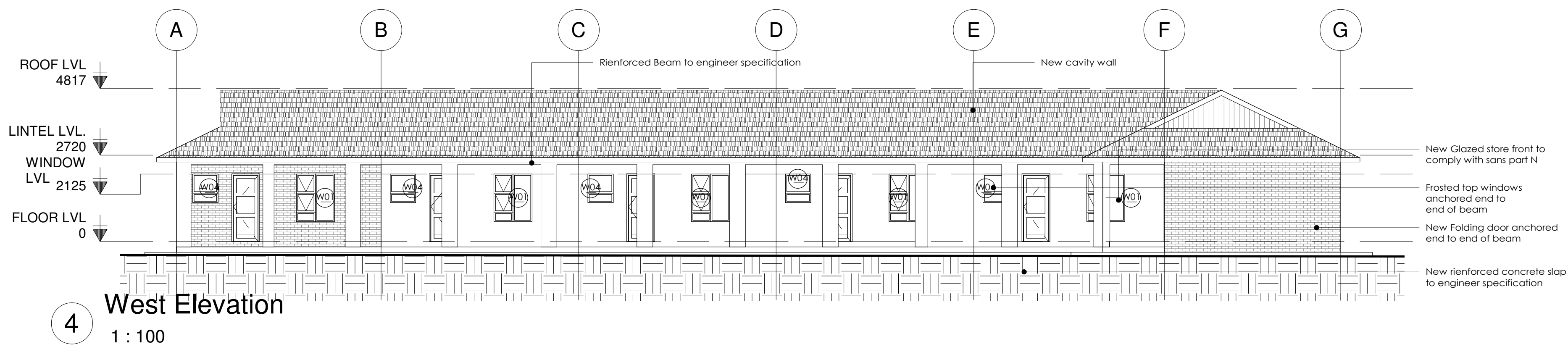
SCALE

AS SHOWN

DRAWN BY	DATE
STUDIOE-DESIGN	09/01/2023
ARCHITECT	DATE
STUDIOE-DESIGN	DATE
CLIENT	DATE
NWDPW	DATE

DRAWING NO.

WORKING DRAWINGS



NOTES

GENERAL NOTES

NO	REVISION	DATE

PRINCIPLE AGENT



ARCHITECTS



CLIENT



PROJECT

PROPOSED HOSTEL HOUSING
FOR DAC

DRAWING

ELEVATION, SECTION

PROJECT NO.
61.2022_NWDPW_MELTON_RESEARCH_FARM

SCALE

AS SHOWN

DRAWN BY

STUDIOE-DESIGN

ARCHITECT

STUDIOE-DESIGN

CLIENT

IDT NORTH WEST

DRAWING NO.

DATE

09/01/2023

DATE

DATE

WORKING DRAWINGS

[illegible]

APPLY PRIMER AND ALLOW 16 HOURS TO DRY. FINISH WITH TWO (2) COATS OF ACRYLIC PAINT WITH TWO (2) HOURS DRYING TIME BETWEEN THE COATS FOR MAINTENANCE OF 7 YEARS IN C1 INLAND ENVIRONMENT.

AFTER DRYING, THE WHOLE SUBSTANCE IS
COATED WITH WATER BASED METAL PRIMER.DRY UNCOATED
CONCRETE SURFACES: REMOVE ALL DUST, FOREIGN
MATERAILS OR FUNGAL AND ALGA GROWTH.

RAW PLASTE: REMOVE ALL DUST, FOREIGN MATERIAL OR FUNGAL AND ALGAL GROWTH. FILL AND SEAL ALL VISIBLE CRACKS AND COAT WITH PLASTER PRIMER.

IF THE POWDERY OR FRIABLE, SEAL WITH PLASTER PRIMER OR BONDING LIQUID.

APPLICATION PROCEDURE
USE A BRUSH, MOHAIR ROLLER OR AIRLESS-SPRAY TO APPLY

USE A BRUSH, ROLLER OR AIRLESS-SPRAY TO APPLY A SECOND GENEROUS COAT. ONLY IN VENTILATED AREAS. KEEP AWAY FROM ALL IGNITION SOURCES, FLAMES AND SPARKS.

APPLY UNDERCOAT (UC1) OR PROFESSIONAL UNDERCOAT.
ALLOW 4 HOURS TO DRY, OR APPLY MULTI-SURFACE PRIMER
(W/ IP1)

DOOR PAINT SPEC1
SANDING SEALER PLUS 2 COATS MATT POLYUTHERENE CLEAR
VARNISH

DOOR FRAME PAINT SPEC1
UNDERCOAT PLUS 2 COATS ENAMEL COLOUR TO
ARCHITECT'S APPROVAL

GENERAL NOTES

REVISION	DATE

INCIPLE AGENT



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37 DF Malan Avenue | Lyttelton Manor
Centurion, 0157

www.studioe-design.co.za

ENT



SUBJECT

AWING

FINISHING SCHEDULE

PROJECT NO.

AS SHOWN

AWN BY _____

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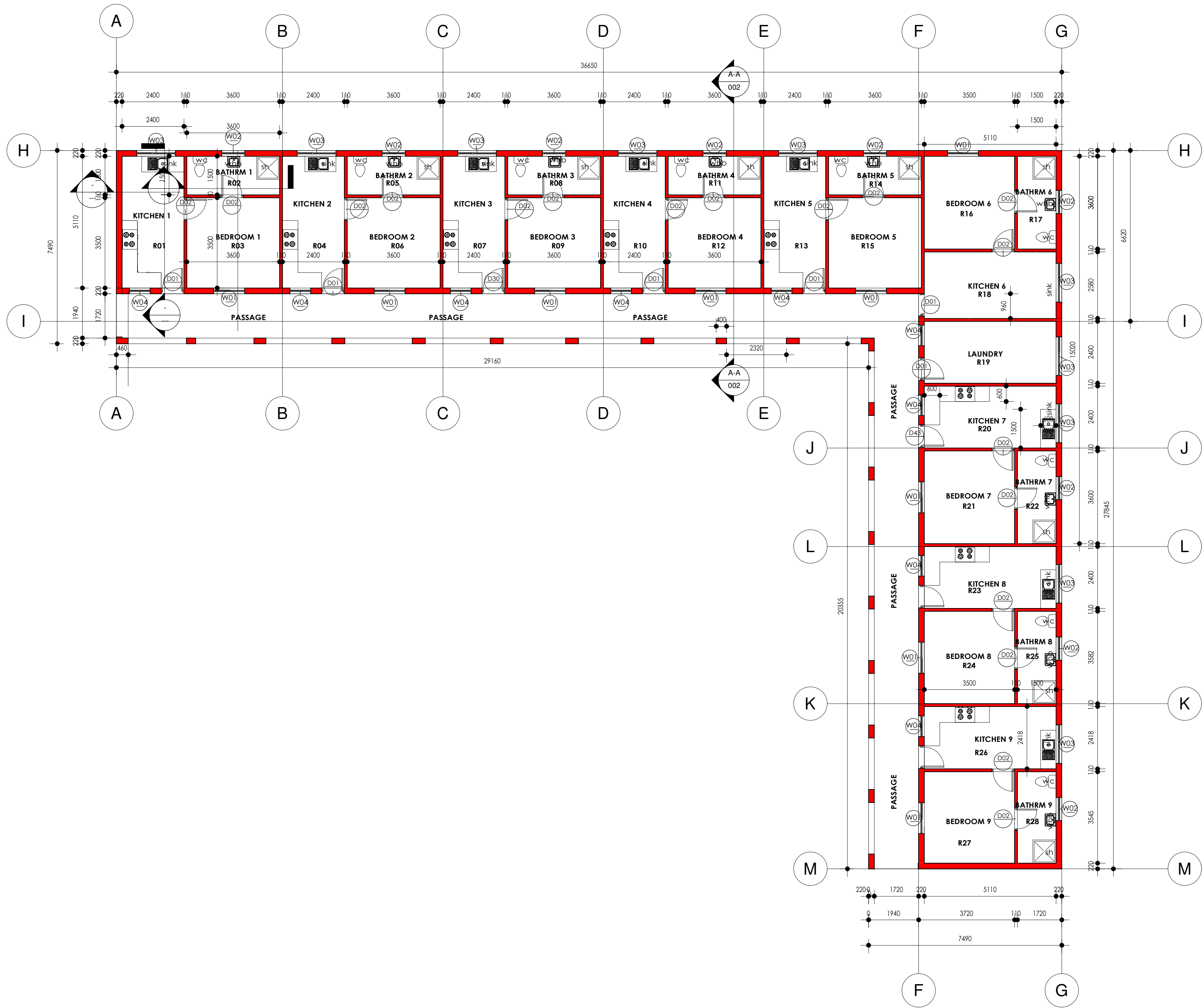
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DRAWING NO.

1000

WORKING DRAWINGS

DATE 09/01/2023



NOTES

GENERAL NOTES

NO	REVISION	DATE

PRINCIPLE AGENT



ARCHITECTS



CLIENT



PROJECT

PROPOSED HOSTEL HOUSING
FOR DAC

DRAWING

FLOORPLAN, 3D

PROJECT NO.
61.2022_NWDPW_MELTON_RESEARCH_FARM

SCALE

AS SHOWN

DRAWN BY
STUDIOE-DESIGN

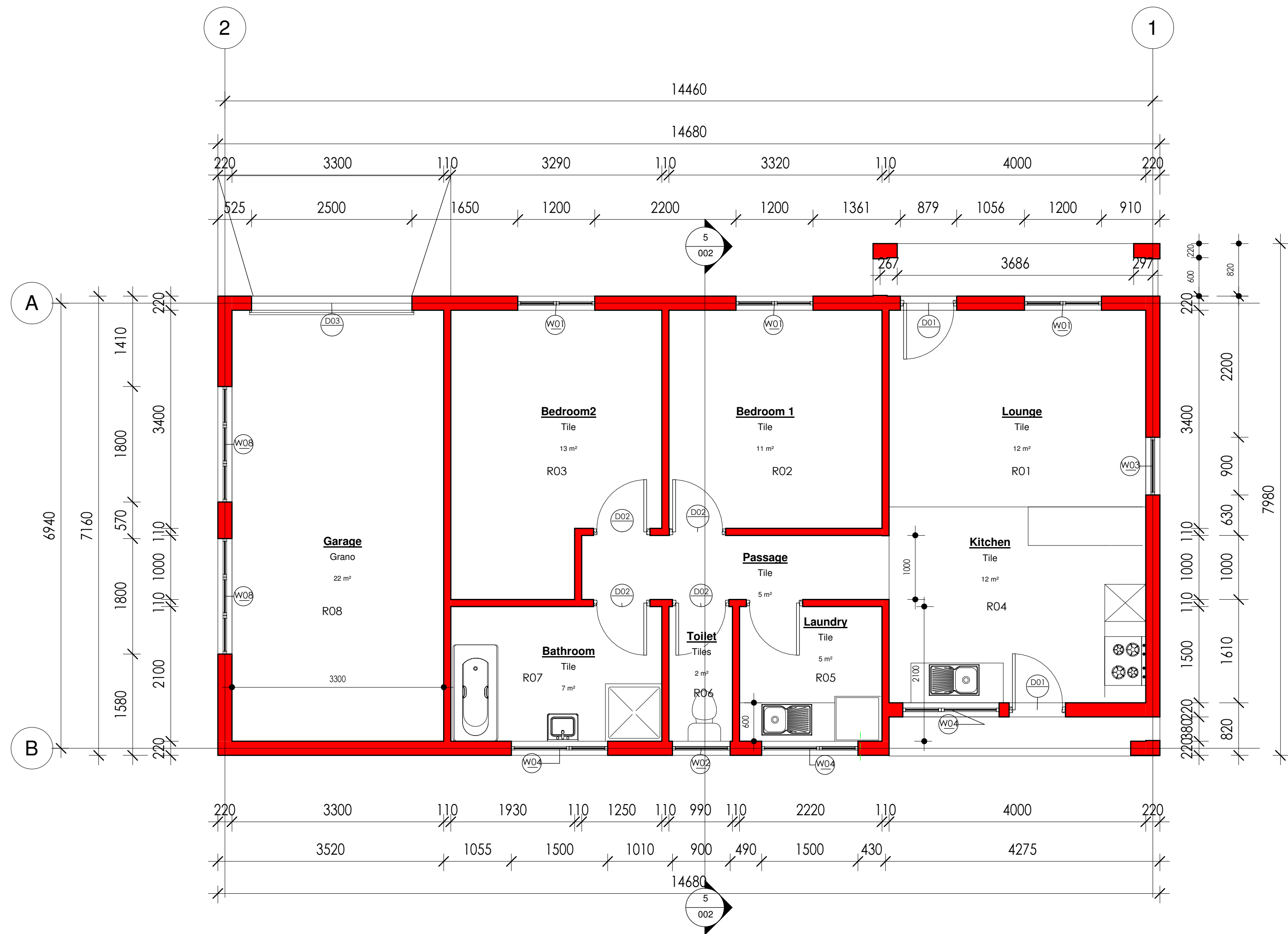
DATE
09/01/2023

ARCHITECT
STUDIOE-DESIGN

CLIENT
IDT NORTH WEST

DRAWING NO.

WORKING DRAWINGS



1 GROUND FFL
1 : 50



NOTES

GENERAL NOTES

NO	REVISION	DATE

PRINCIPLE AGENT



ARCHITECTS



CLIENT



PROJECT PROPOSED HOSTEL HOUSING + MANAGE HOUSE FOR DAC

DRAWING FLOOR PLANS SECTIONS AND STORE FRONT ELEVATION

PROJECT NO.
61.2022_NWDPW_MELTON_RESEARCH_FARM

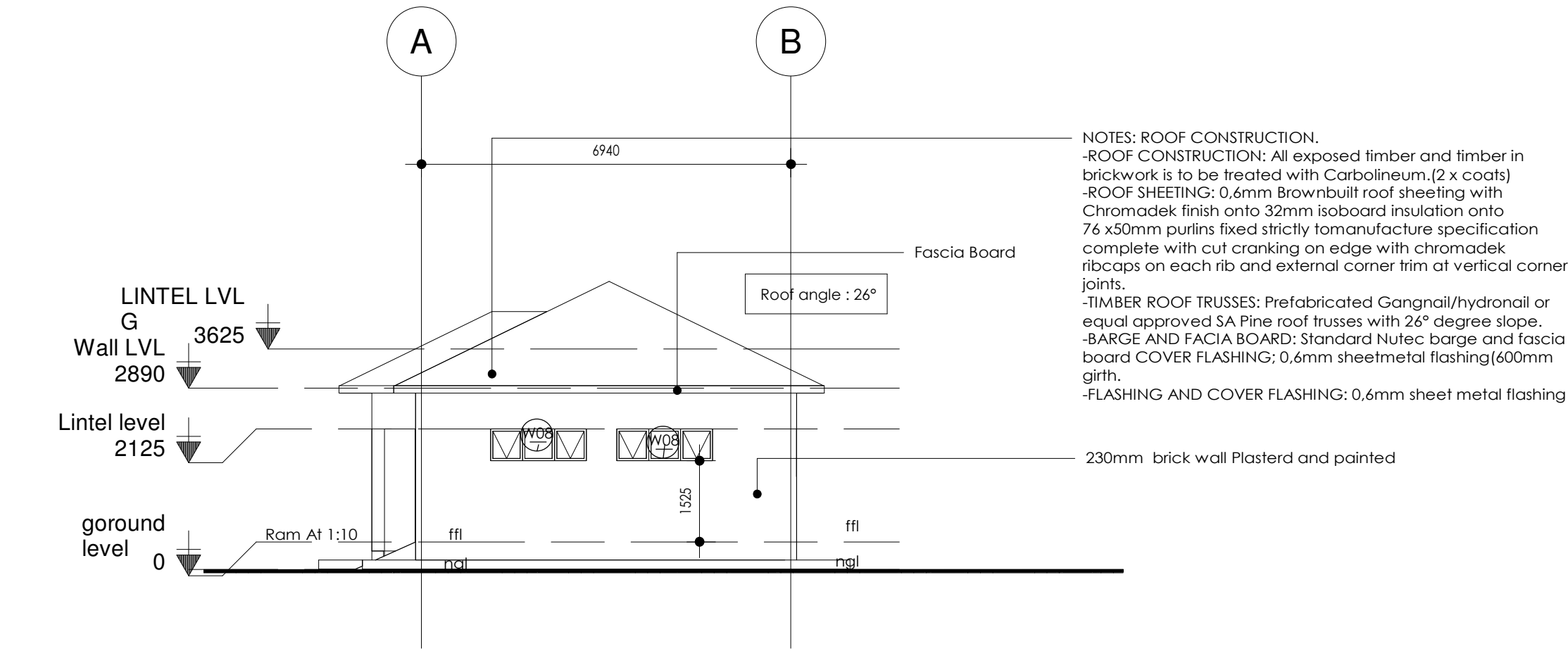
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AS SHOWN

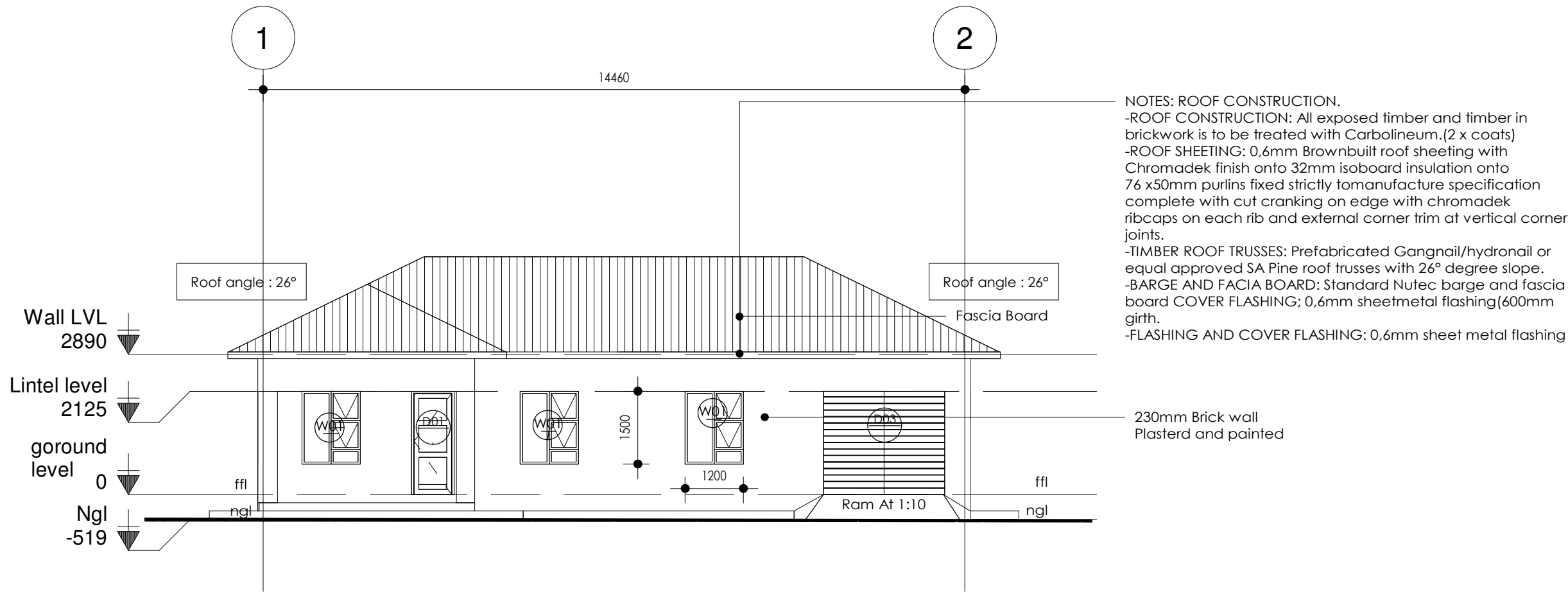
DRAWN BY STUDIOE-DESIGN	DATE 09/01/2023
ARCHITECT STUDIOE-DESIGN	DATE
CLIENT NWDPW	DATE

DRAWING NO.

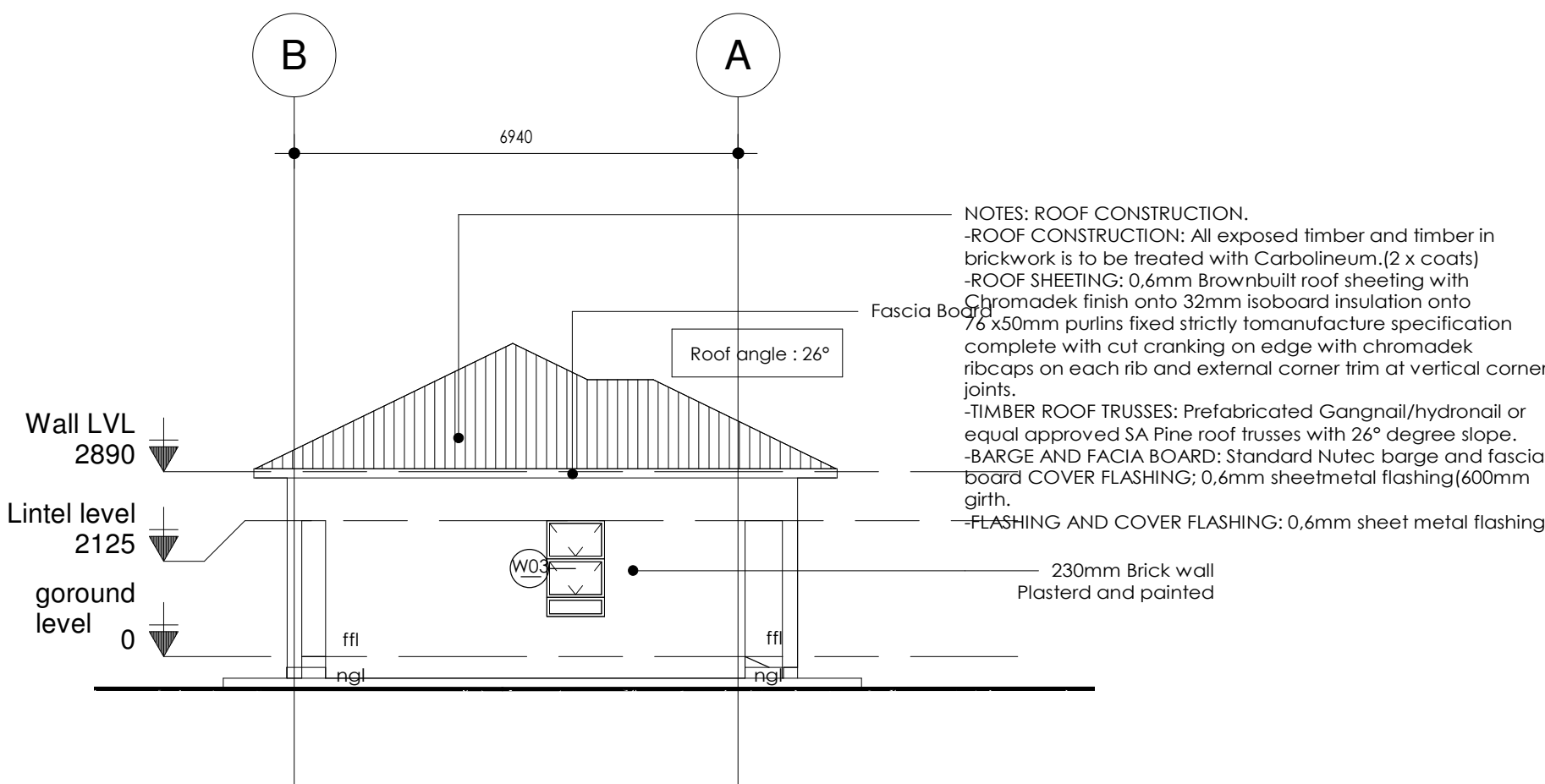
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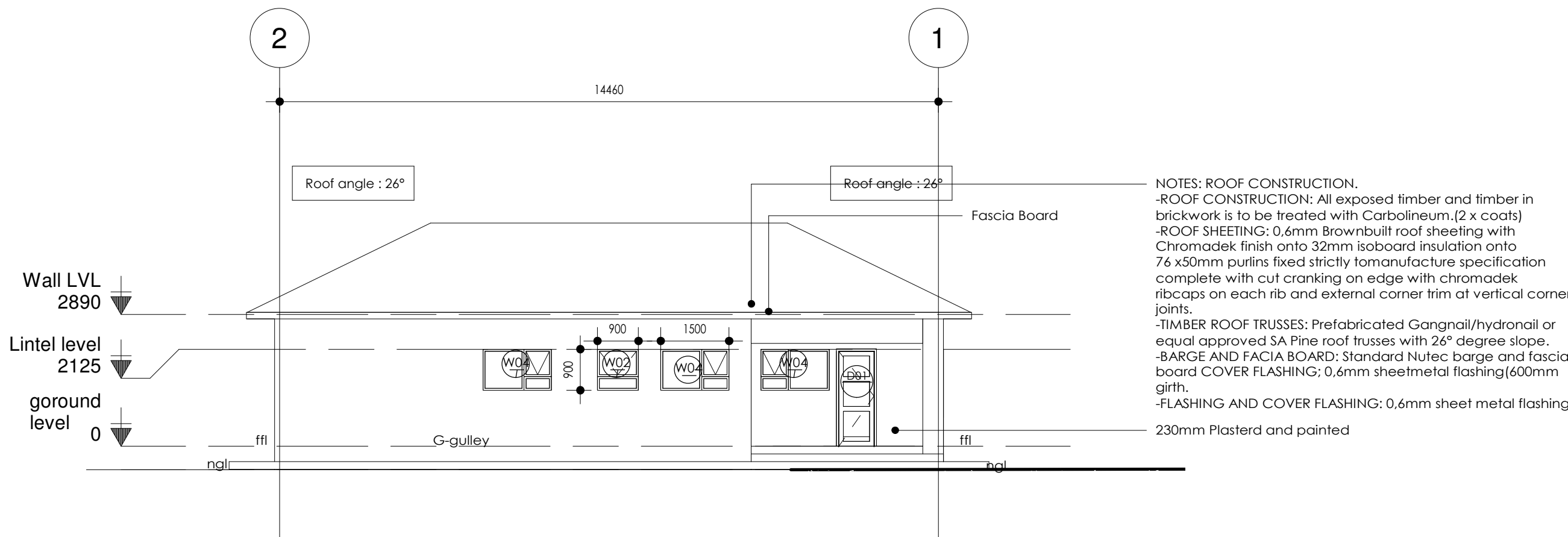
1 WEST ELEVATION
1 : 100



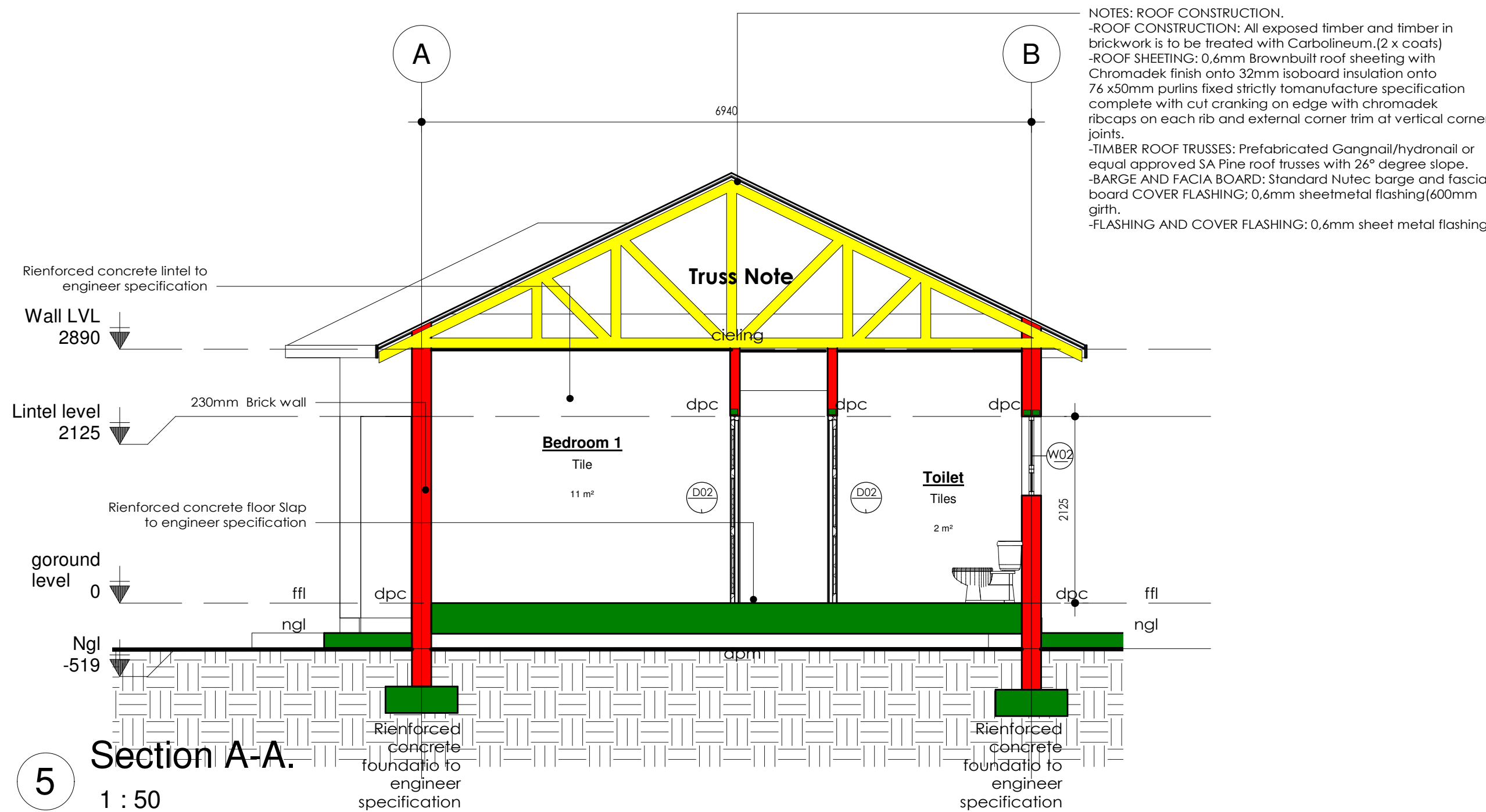
2 NORTH ELEVATION
1 : 100



3 EAST ELEVATION
1 : 100



4 SOUTH ELEVATION
1 : 100



5 Section A-A
1 : 50

NOTES

GENERAL NOTES

NO	REVISION	DATE

PRINCIPLE AGENT

BOSELE CONSULTING
Quantity Surveys | Project Managers | Construction Managers
t: +27 (0)10 221 1361 | e: khaya@boseleconsulting.co.za
No. 8, Block 8, Blu Valley Mall | Cnr. Roodepoort & Bottrill
The Reeds, Centurion, 0157

ARCHITECTS

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CLIENT

idt
Independent Development Trust
Independent development trust

PROJECT PROPOSED HOSTEL HOUSING + MANAGE HOUSE FOR DAC

DRAWING

ELEVATIONS + SECTIONS

PROJECT NO.
61.2022_NWDPW_MELTON_RESEARCH_FARM

SCALE

AS SHOWN

DRAWN BY
STUDIOE-DESIGN

DATE
09/01/2023

ARCHITECT
STUDIOE-DESIGN

CLIENT
NWDPW

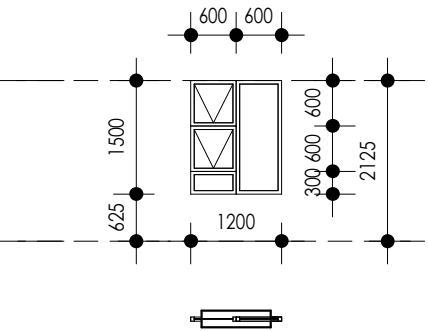
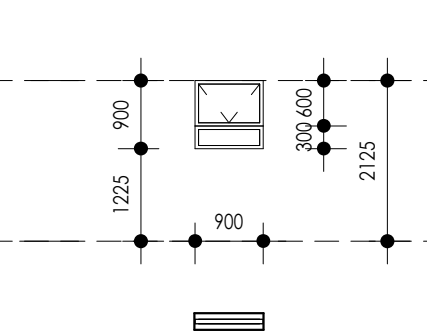
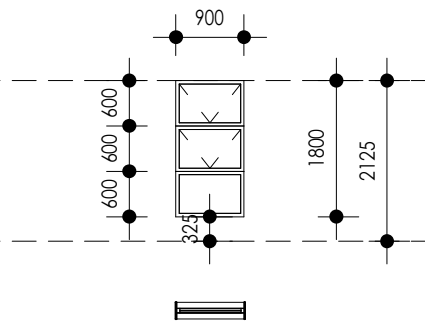
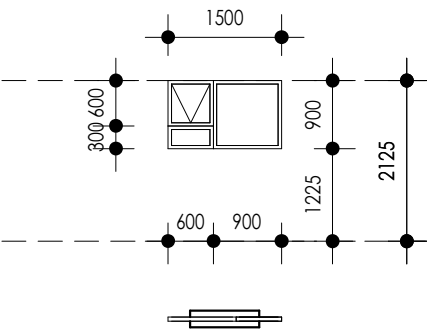
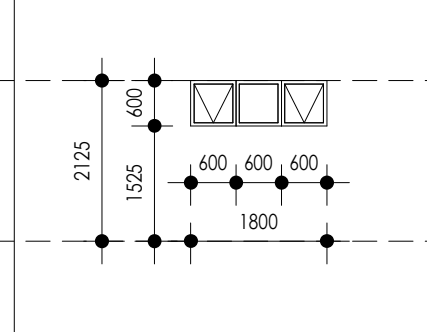
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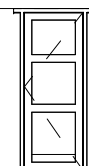
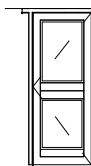
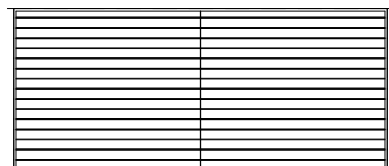
WORKING DRAWINGS

ROOM NAMES AND ROOM NUMBER:														
R01	LOUNGE													
R02	BEDROOM 1													
R03	BEDROOM 2													
R04	KITCHEN						○	○						
R05	LAUNDRY										○		○	
R06	TOILET	○	○			○								
R07	BATHROOM	○	○	○	○	○			○	○		○		○
R08	GARAGE													
TOTAL:		2	2	1	1	2	1	1	1	1	1	1	1	1

						
1. WATER CLOSET (wc) DESCRIPTION	2. WASH HAND BASIN(whb) DESCRIPTION	3. MIRROR DESCRIPTION	5. WATER DRAINAGE DESCRIPTION	6. WASH THROUGH DESCRIPTION	7. BATH DESCRIPTION	8. SHOWER ARM DESCRIPTION
<p>BETTA IQWA WHITE DUAL TOP FLUSH TOILET SUITE - CLOSE COUPLED 90° OUTLET WALL HUNG OPEN RIM PAN (BE1WH020) AND MATCHING 6 LITRE PUSHBUTTON TOP DUAL FLUSH BACK INLET COMPLETE WITH LID, FITMENT AND WITH BOLT-THROUGH-THE-WALL BRACKET</p>	<p>BOUQUET WHITE WALL MOUNTED BASIN & PEDESTAL SET - 810 X 415 X 495MM WITH TWO TAPHOLES, INCLUDING INTEGRATED OVERFLOW AND CHAINSTAY BOLTED TO WALL WITH TWO 10MM BOLTS AND SEALED WITH SILICONE SEALANT WHERE BASIN MEETS THE WALL OR SIMILAR APPROVED</p>	<p>600mm x 900mm x 4mm THICK MIRROR ABOVE WASH - HAND BASIN @ 1,325mm ABOVE FFL TO BE FIXED TO WALL BY MEANS OF ADHESIVE, OR SIMILAR APPROVED</p>	<p>LILY CHROME SHOWER WASTE - 100 X 100MM SPACE SAVING CODE: TVACSH2016</p> 	<p>FRANKE WASH THROUGH WALL MOUNTED BRACKETS NOT REQUIRED FINISH: STAINLESS STEEL MANUFACTURED FROM GRADE 430(17/10) STAINLESS STEEL SUITABLE FOR LIGHTS PURPOSE APPLICATIONS SUPPLIED WITH FIXING LUGS FOR WALL MOUNTING NUMBER OF BOWLS: SINGLE WASTE FITTING TYPE: 38mm WASTE WITH PLASTIC PLUG</p>	<p>Tammy White Built-in Straight Bath without Handles - 1700 x 700mm</p>	<p>ITD Chrome Classic Shower Arm - 240mm Chrome Finish TVSH1321/CH</p>
<p>Colour : White</p>	<p>Colour : White NB : To be mounted @ 900mm above ffl</p>	<p>NB : To be @ 1,325mm above ffl</p>	<p>Colour : White</p>		<p>Colour : White</p>	

<p>9. SINK</p> <p>DESCRIPTION</p>  <p>FRANKE TRENDLINE 712 KITCHEN SINK DCB 1500MM x 535MM. THE TRENDLINE DROP-ON SINK, INCLUDES WASTE CODE: FRKVM621 STANDARD DOUBLE END BOWL, FITTED ON ONE PAIR OF FRANKE FALCON BRACKETETS AS SUPPLIED BY FRANKE KITCHEN SYSTEMS (PTY) LTD. @ 900mm HIGH FROM FFL TRAP: DUTTON PLASTICS ENGINEERING ANTI-VAC BOTTLE TRAP (PRODUCT CODE DB22A/V) 40X40mm WHITE UPVC ANTI-VAC BOTTLE TRAP. WASTE: COBRA WATERTECH SINK WASTE (PRODUCT CODE 316) UN-SLOTTED AND SUPPLIED WITH BACKNUT, WITHOUT PLUG, STIRRUP, CHAIN & STAY; 70mm FLANGE; 45mm LONG SHANK; CHROME PLATED COBRA WATERTECH ANTI-THEFT PLUG (PRODUCT CODE 309-40)</p> <p>Colour : White</p> <p>NB: To be mounted @ 900mm above ffl</p>	<p>10.SHOWER</p> <p>DESCRIPTION</p>  <p>CRYSTALTECH ST. MARCO CHROME CORNER ENTRY SHOWER ENCLOSURE - CT0801 - 885 X 885 X 1850MM</p> <p>NB: To be @ 495mm above ffl</p>	<p>11. TAPS</p> <p>DESCRIPTION</p> <p>11A. AMALFI UMGENI BASIN MIXER; CHROME FINISH CODE: TVUM4740/CH, HOT AND COLD. ½"</p>  <p>11B. AMALFI UMGENI BATH SHOWER MIXER CODE: TVLUM700/CH.</p> 	<p>11C. ITD CHROME KATIKI SINK MIXER TAP CHROME FINISH CODE: VKIKAO3/CH</p>  <p>11D TAP SINK BRASS GARDEN HOSE BIB TAP 15mm</p> 	<p>12. SHOWER HEAD</p> <p>DESCRIPTION</p>  <p>ITD 1 FUNCTION CHROME SHOWER ROSE. WATER SAVING CODE: TVSH1244/CH. SCREWED TO SHOWER ARM CODE: TVSH1132/CH ITD CHROME Classic Shower Arm - 240mm Chrome Finish</p> <p>13. TOWEL RAIL</p> <p>DESCRIPTION</p>  <p>VEGA 5 PIECE CHROME BATHROOM ACCESSORY STARTER PACK: INCLUDES FITTING SCREWS CODE: TVCH2013J</p>
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W I N D O W S						
		W1	W2	W3	W4	W5
NO REQUIRED		TOTAL= 03	TOTAL= 01	TOTAL= 01	TOTAL= 02	TOTAL= 02
CAT NO:						
WINDOW DESCRIPTION :		1200 X 1500mm ALUMINIUM WINDOW COLOUR: ANODISED ALUMINIUM. GILL: EXTERNAL ALU. INTERNAL: FIBRE CEMENT FURNITURE: HINGES + CATCHES TO BE APPROVED	900 x 900mm ALUMINIUM WINDOW COLOUR: ANODISED ALUMINIUM. GILL: EXTERNAL ALU. INTERNAL: FIBRE CEMENT FURNITURE: HINGES + CATCHES TO BE APPROVED	900 X 1800mm ALUMINIUM WINDOW COLOUR: ANODISED ALUMINIUM. GILL: EXTERNAL ALU. INTERNAL: FIBRE CEMENT FURNITURE: HINGES + CATCHES TO BE APPROVED	1500 X 900mm ALUMINIUM WINDOW COLOUR: ANODISED ALUMINIUM. GILL: EXTERNAL ALU. INTERNAL: FIBRE CEMENT FURNITURE: HINGES + CATCHES TO BE APPROVED	600 X 1800mm ALUMINIUM WINDOW COLOUR: ANODISED ALUMINIUM. GILL: EXTERNAL ALU. INTERNAL: FIBRE CEMENT FURNITURE: HINGES + CATCHES TO BE APPROVED
GLAZING		4mm CLEAR GLASS	4mm CLEAR GLASS	4mm CLEAR GLASS	4mm CLEAR GLASS	4mm CLEAR GLASS
IRONMONGERY		BY SPECIALIST	BY SPECIALIST	BY SPECIALIST	BY SPECIALIST	BY SPECIALIST
FINISHES		ALUMINIUM FRAME	ALUMINIUM FRAME	ALUMINIUM FRAME	ALUMINIUM FRAME	ALUMINIUM FRAME
LOCATION		R01 R02 R03	R06	R01	R07 R05 R04	R08

DOORS			
			
	D1	D2	D3
NO REQUIRED	TOTAL=11	TOTAL=9	TOTAL=9
CAT NO:			
DOOR DESCRIPTION :	SOLID 2 PANEL SINGLE DOOR – HEAVY: 813MM WIDE X 2032MM HIGH, HARDWOOD DOORS; RAISED PANEL 32MM; SOLID MERANTI / ENGINEERED MERANTI TO BE APPROVED	SOLID 2 PANEL SINGLE DOOR – HEAVY: 813MM WIDE X 2032MM HIGH, HARDWOOD DOORS; RAISED PANEL 32MM; SOLID MERANTI / ENGINEERED MERANTI TO BE APPROVED	GARAGE DOOR ROLL UP ALUZING NATURAL-W2450XH2100MM TO BE APPROVED
FUNCTION	EXTERNAL	INTERNAL	EXTERNAL
IRONMONGERY	BY SPECIALIST	BY SPECIALIST	BY SPECIALIST
FINISHES	WOODEN FRAME	WOODEN FRAME	STEEL FRAME
LOCATION	R01 R04	R02 R03 R05 R06 R07	R08

NOTES	
GENERAL NOTES	
PRINCIPLE AGENT	
 <div style="display: inline-block; text-align: left; margin-left: 10px;"><h2 style="margin: 0;">BOSELE CONSULTING</h2><p style="margin: 5px 0 0 0;">Quantity Surveys Project Managers Construction Managers</p><p style="margin: 10px 0 0 0;">t: +27 (0)10 221 1261 e: Khaya@boseleconsulting.co.za No. 8, Block 8, Blu Valley Mall Cnr. Roshuisdreef & Bothmill The Reeds, Centurion, 0157</p></div>	
ARCHITECTS	
 <div style="display: inline-block; text-align: left; margin-left: 10px;"><h2 style="margin: 0;">studioe-DESIGN</h2><p style="margin: 5px 0 0 0;">architecture design construction</p><p style="margin: 10px 0 0 0;">t: +27 (0)12 664 0168 e: engage@studioe-design.co.za 37 DF Malan Avenue Lyttelton Manor Centurion, 0157</p><p style="margin: 10px 0 0 0;">www.studioe-design.co.za</p></div>	
CLIENT	
 <p style="margin: 5px 0 0 0;">independent development trust</p> <p style="margin: 5px 0 0 0;">independent development trust</p>	
PROJECT	
<h3>PROPOSED HOSTEL HOUSING + MANAGE HOUSE FOR DAC</h3>	
DRAWING	
<h3>WINDOW AND DOOR SCHEDULE AND FINISHING SCHEDULE</h3>	
PROJECT NO.	
61.2022_NWDPW_MELTON_RESEARCH_FARM	
SCALE	
AS SHOWN	
DRAWN BY STUDIOE-DESIGN	DATE 09/01/2023
ARCHITECT STUDIOE-DESIGN	DATE
CLIENT NWDPW	DATE
DRAWING NO.	
WORKING DRAWINGS	

NWDPW HOSTEL SANITARY SCHEDULE		WC - BETTA IQWA DUAL TOP FLUSH TOILET	WHB - BOUQUET WALL MOUNTED BASIN	BATH	5 PIECE BATHROOM ACCESSORY	TAP - AMALFI UMGENI BASIN MIXER	SINK - FRANKE NOUVEAU DOUBLE SINK	TAP - ITD CHROME KATIKI SINK MIXER	LILY CHROME SHOWER WASTE - 100 X 100MM	TAP - AMALFI UMGENI BATH SHOWER MIXER	WASH THROUGH	SHOWER ARM	TAP SINK	WATER DRAINAGE
ROOM NAMES AND ROOM NUMBER:														
R01	KITCHEN 1													
R02	BATHRM 1		○	○	○	○	○					○		○
R03														
R04	KITCHEN 2								○	○	○			
R05	BATHRM 2		○	○	○	○	○					○		○
R06														
R07	KITCHEN 3								○	○	○			
R08	BATHRM 3		○	○	○	○	○					○		○
R09														
R10	KITCHEN 4								○	○	○			
R11	BATHRM 4		○	○	○	○	○					○		○
R12														
R13	KITCHEN 5								○	○	○			
R14	BATHRM 5		○	○	○	○	○					○		○
R15														
R16									○	○	○			
R17	BATHRM 6		○	○	○	○	○					○		○
R18	KITCHEN 6													
R19	LAUNDRY										○			○
R20	KITCHEN 7								○	○	○			
R21	BATHRM 7		○	○	○	○	○					○		○
R22														
R23	KITCHEN 8								○	○	○			
R24	BATHRM 8		○	○	○	○	○					○		○
R25														
R26	KITCHEN 09								○	○	○			
R27	BATHRM 09		○	○	○	○	○					○		○
R28														
TOTAL:		9	9	9	9	9	9	9	9	9	1	9	1	9

W I N D O W S S C H E D U L E				
W I N D O W S				
	W1	W2	W3	W4
	TOTAL= 09	TOTAL= 09	TOTAL= 10	TOTAL= 09
	CAT NO: WINDOW DESCRIPTION :	1200 X 1500mm ALUMINIUM WINDOW COLOUR: ANODISED ALUMINIUM. CILL: EXTERNAL ALU, INTERNAL: FIBRE CEMENT FURNITURE: HINGES + CATCHES TO BE APPROVED	900 X 900mm ALUMINIUM WINDOW COLOUR: ANODISED ALUMINIUM. CILL: EXTERNAL ALU, INTERNAL: FIBRE CEMENT FURNITURE: HINGES + CATCHES TO BE APPROVED	1500 X 900mm ALUMINIUM WINDOW COLOUR: ANODISED ALUMINIUM. CILL: EXTERNAL ALU, INTERNAL: FIBRE CEMENT FURNITURE: HINGES + CATCHES TO BE APPROVED
GLAZING	4mm CLEAR GLASS	4mm CLEAR GLASS	4mm CLEAR GLASS	4mm CLEAR GLASS
IRONMONGERY	BY SPECIALIST	BY SPECIALIST	BY SPECIALIST	BY SPECIALIST
FINISHES	ALUMINIUM FRAME	ALUMINIUM FRAME	ALUMINIUM FRAME	ALUMINIUM FRAME
LOCATION	R03 R06 R09 R12 R15 R16 R19 R21 R24 R27	R01 R04 R07 R10 R13 R18 R20 R23 R26	R01 R04 R07 R10 R11 R18 R19 R20 R23 R26	R02 R05 R08 R11 R14 R17 R22 R25 R28

D O O R S C H E D U L E			
D O O R S			
	D1	D2	D3
	TOTAL=11	TOTAL=9	TOTAL=9
	CAT NO: DOOR DESCRIPTION :	SOLID 2 PANEL SINGLE DOOR – HEAVY: 813MM WIDE X 2032MM HIGH. HARDWOOD DOORS; RAISED PANEL 32MM; SOLID MERANTI / ENGINEERED MERANTI TO BE APPROVED	SOLID 2 PANEL SINGLE DOOR – HEAVY: 813MM WIDE X 2032MM HIGH. HARDWOOD DOORS; RAISED PANEL 32MM; SOLID MERANTI / ENGINEERED MERANTI TO BE APPROVED
FUNCTION	EXTERNAL	INTERNAL	INTERNAL
IRONMONGERY	BY SPECIALIST	BY SPECIALIST	BY SPECIALIST
FINISHES	WOODEN FRAME	WOODEN FRAME	WOODEN FRAME
LOCATION	R01 R04 R07 R10 R11 R18 R20 R23 R26	R03 R06 R09 R12 R15 R16 R21 R22 R24 R27	R02 R05 R08 R11 R14 R17 R19 R22 R25 R28

NWDPW - SANITARY SCHEDULE						
1. WATER CLOSET (wc) DESCRIPTION	2. WASH HAND BASIN(whb) DESCRIPTION	3. MIRROR DESCRIPTION	5. WATER DRAINAGE DESCRIPTION	6. WASH THROUGH DESCRIPTION	7. BATH DESCRIPTION	8. SHOWER ARM DESCRIPTION
BETTA IQWA WHITE DUAL TOP FLUSH TOILET SUITE - CLOSE COUPLED 90° OUTLET WALL HUNG OPEN RIM PAN (BE:VWH20) AND MATCHING 6 LITRE PUSHBUTTON TOP DUAL FLUSH BACK INLET COMPLETE WITH LID, FITMENT AND WITH BOLT-THROUGH-THE- WALL BRACKET	BOUQUET WHITE WALL MOUNTED BASIN & PEDESTAL SET - 810 X 415 X 495MM WITH TWO TAPHOLES, INCLUDING INTEGRATED OVERFLOW AND CHAINSTAY HOLE BOLTED TO WALL WITH TWO 10MM BOLTS AND SEALED WITH SILICONE SEALANT WHERE BASIN MEETS WALL OR SIMILAR APPROVED	600mm x 900mm x 4mm THICK MIRROR ABOVE WASH - HAND BASIN @ 1.325mm ABOVE FFL TO BE FIXED TO WALL BY MEANS OF ADHESIVE. OR SIMILAR APPROVED	LILY CHROME SHOWER WASTE - 100 X 100MM SPACE SAVING CODE: TVACSH2016 	FRANKE WASH THROUGH WALL MOUNTED BRACKETS NOT REQUIRED FINISH: STAINLESS STEEL MANUFACTURED FROM GRADE 430(17/10) STAINLESS STEEL SUITABLE FOR LIGHTS PURPOSE APPLICATIONS SUPPLIED WITH FIXING LUGS FOR WALL MOUNTING NUMBER OF BOWLS: SINGLE WASTE FITTING TYPE: 38mm WASTE WITH PLASTIC PLUG	Tammy White Built-in Straight Bath without Handles - 1700 x 700mm	ITD Chrome Classic Shower Arm - 240mm Chrome Finish TVSH1321/CH
Colour : White	Colour : White NB : To be mounted @ 900mm above ffl	NB : To be @ 1.325mm above ffl	Colour : White		Colour : White	

NWDPW - SANITARY SCHEDULE			
9. SINK DESCRIPTION	10.SHOWER DESCRIPTION	11. TAPS DESCRIPTION	11C. ITD CHROME KATIKI SINK MIXER TAP CHROME FINISH CODE: VKKA03/CH
		11A. AMALFI UMGENI BASIN MIXER: CHROME FINISH CODE: TVUM470/CH. HOT AND COLD. 1/2"	
FRANKE TRENDLINE 712 KITCHEN SINK DCB 1500MM x 535MM. THE TRENDLINE DROP ON SINK, INCLUDES WASTE CODE: FKNV621 STANDARD DOUBLE END BOWL. FITTED ON ONE PAIR OF FRANKE FALCON BRACKETS AS SUPPLIED BY FRANKE KITCHEN SYSTEMS (PTY) LTD. @ 900mm HIGH FROM FFL TRAP: DUTTON PLASTICS ENGINEERING ANTI-VAC BOTTLE TRAP (PRODUCT CODE D822AV) 40X40mm WHITE UPVC ANTI-VAC BOTTLE TRAP. WASTE: COBRA WATERTech SINK WASTE (PRODUCT CODE 318) UN-SLOTTED AND SUPPLIED WITH BACKNUT. WITHOUT PLUG, STIRRUP, CHAIN & STAY. 70mm FLANGE; 45mm LONG SHANK; CHROME PLATED. COBRA WATERTech ANTI-THEFT PLUG (PRODUCT CODE: 309-40)	CRYSTALTECH ST. MARCO CHROME CORNER ENTRY SHOWER ENCLOSURE - CTG801 - 885 X 885 X 1850MM	11B. AMALFI UMGENI BATH SHOWER MIXER CODE: TVUM4700/CH.	11D. TAP SINK/ BRASS GARDEN HOSE BIB TAP 15mm
Colour : White NB: To be mounted @ 900mm above ffl	NB: To be @ 495mm above ffl		12. SHOWER HEAD DESCRIPTION ITD 1 FUNCTION CHROME SHOWER ROSE. WATER SAVING CODE (TVSH1321/CH) SCREWED TO SHOWER ARM CODE: (TVSH1321/CH) ITD Chrome Classic Shower Arm - 240mm Chrome Finish
			13. TOWEL RAIL DESCRIPTION VEGA 5 PIECE CHROME BATHROOM ACCESSORY STARTER PACK: INCLUDES FITTING SCREWS CODE: (TVCH2013)

NOTES

GENERAL NOTES

NO	REVISION
	DATE

PRINCIPLE AGENT

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CLIENT

**idt**
Independent development trust

PROJECT

DRAWING

WINDOW AND DOOR SCHEDULE SANITARY SCHEDULE

PROJECT NO.
61.2022_NWDPW_MELTON_RESEARCH_FARM

SCALE

AS SHOWN

DRAWN BY STUDIOE-DESIGN	DATE 09/01/2023
ARCHITECT STUDIOE-DESIGN	DATE
CLIENT NWDPW	DATE

DRAWING NO.

WORKING DRAWINGS

INDEPENDENT DEVELOPMENT TRUST

**PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE
QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE &
DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE
DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST
PROVINCE**

ANNEXURE B: ELECTRICAL DRAWINGS

MELTON RESEARCH FARM

PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE & DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST PROVINCE

Prepared for:		Prepared by:	
			
MELTON RESEARCH FARM		BOSELE CONSULTING (PTY) LTD	
Address:	2306 Aerodrome Dada Motors Building, Corner Nelson Mandela Drive & Aerodrome Road, Mafikeng Industrial, Mafikeng 2745	Address:	161 The Islands The Islands Estate Ext. 1 Madibeng 6169
Client Contact Person:	Marumo Mabaso <i>Project Leader</i>	Contact Person:	Tlamele Gulubane <i>Project Leader</i>
Tel N°:	018 389 3024	Tel N°:	
Fax N°:		Fax N°:	



MELTON RESEARCH FARM

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SECTION 1.1

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PROJECT SPECIFICATION

MELTON RESEARCH FARM – ELECTRICAL WORKS

1. INTRODUCTION

This project scope covers the supply and installation of the Melton Research Farm's electrical installation to suit the electrical standards of an electrical system.

2. SCOPE OF WORKS

The specification covers the supply, installation, testing, commissioning, and handing over in a working condition and maintenance during the guarantee period of the general electrical installation of the Melton Research Farm. Scope of which includes new electrical installations necessary for the proper functioning of the facility.

The contractor is to provide for all the items required to provide a **COMPLETE** installation as indicated below under the **Summary of the work**.

2.1. Summary of the work

2.1.1. New Installations

- Supply and install LV supply cables to the new LV main distribution kiosk located at the back of the hostel building as shown on the drawings.
- Supply and install the lighting installation as shown on the drawings.
- Supply and install small power installation as shown on the drawings.
- Supply and install earthing and lightning protection as shown on the drawings.
- Finishing and cleaning of the electrical installation.
- Provision of as-installed drawings.
- Provision of SABS letter of approval for light fittings.

3. COMPLIANCE WITH STANDARDS

All work to be performed in accordance with the following: -

- (a) The code of practice for the wiring of premises, SANS 10142-1: 2017, Edition 2.
- (b) South African National of Standards, standardised specification for Civil Engineering Construction SANS 1200.
- (c) The Occupational Health and Safety Act, ACT No 85 of 1993, as amended
- (d) The protection of buildings and structures against lightning, SANS 10313, as amended.
- (e) The National Building Regulations and Building Standards Act, ACT 103 of 1977 and SANS 0400 of 1990
- (f) Apply a checklist based quality management system based on the principles of the ISO quality standards.
- (g) GNR.1010 of 2003 Construction regulations.
- (h) SANS 10114-1 Interior Lighting Part 1: Artificial Lighting for Interiors.
- (i) SANS 204: 2011 Energy Efficiency in Buildings.
- (j) SANS 475 Energy Ratings
- (k) SANS 10400 Application of the National Building Regulations – Part O – Lighting & Ventilation
- (l) SANS 10313:1999- All specified buildings shall be provided with lightning conductors and shall be capable of withstanding the tests laid down herein.
- (m) The quality management system must comply with ISO 9000 part 1 and ISO 9001, 9002, 9003 and ISO 9004 parts 1 and 3 as amended.

Standards referred to in this specification are the latest edition, including all amendments, published three calendar months or longer before the closing date of tenders.

The SANS for general electrical installations are to be used on this project.

IDT will **NOT** entertain any claims for extra costs in respect of failure by the tenderer to comply with the SANS.

4. MATERIAL

All material used in the execution of the works must be new, from fresh stock and of the highest quality available except where existing material is to be re-used as per the specification and instructed by the engineer.

Products that are specified as mark bearing must bear the mark of the relevant standards body.

When so requested by the engineer, provide evidence in form of delivery slips, certificates, test reports or other written proof that material or components comply with the standards laid down in this specification. The engineer reserves the right to have any suspect equipment or material tested and certified by an approved testing authority for compliance with the required standards. If the tests are successful the engineer will bear the cost of the tests, however if the material or equipment fails the tests, the Contractor will bear the costs.

Any material or equipment that needs to be replaced must be replaced with the same quality material or equipment.

Take special care to ensure neatness in all parts of the installation. The equipment and material must be suitable for the purpose for which they are employed and the arrangement of the equipment must be of the best current practice.

Install only material and equipment manufactured in South Africa wherever possible.

5. DOCUMENTATION

The project specification must be read in conjunction with the standard specifications referred to herein.

Any ambiguous or dubious wording must be cleared with the Engineer before work is started.

The wrong interpretation of the specification and/or drawings, resulting in alterations and/or additional costs, is solely the responsibility of the contractor.

6. PROGRAMME

The Contractor must submit a detailed electrical Gantt chart programme within **two weeks** of being appointed. The Engineer and the employer reserve the right to alter the programme to meet the priorities of the client. These amendments will be such that the Contractor will still be able to complete the electrical works within the tendered construction time. The completion date of the contract shall be as indicated at the site handover meeting or in the appointment letter.

The Contractor must submit a progress report on each monthly scheduled site meeting based on this original programme. The programme should indicate the procurement of materials for easy identification of long lead materials. A summary schedule indicating the main activities of the project shall also be submitted to the Engineer.

7. LV CABLES

Supply and install 600/1000V LV cables to distribute power from the supply authority to the main kiosk as well as to various distribution boards, as indicated in the drawings.

The cables will be installed in the ground, either directly laid in the soil or in cable sleeves as indicated on the drawings.

Where cables are to be installed on cable trays, new cables must be of the ECC type.

8. CABLE INSTALLATION

Provide excavations and trenches for the installation of cables and sleeves as per the route(s) shown on the drawing. Where the cables cross road surfaces or walkways, cable sleeves must be installed. Cable trenches are to be backfilled with material suitable for compaction to ensure re-instatement of the original surface is done as close to the original finish. In case of clay soil conditions, the Contractor will

be required to import soil and to mix it in the ratio of 6:1 with cement to ensure proper compaction.

The contractor will be required to excavate cross trenches along the proposed route of the new cables, in order to identify existing cables and other services and to ensure that the existing services are unaffected during the construction of the works associated with this project. All existing services and crossing services found on the route must be identified and noted on the as-built drawings. Should the contractor not adhere to the prescribed method statement then damages to existing cables shall be repaired on the Contractor's own cost and the cables must be repaired immediately and no claims will be entertained.

9. CABLE TRENCHING

The Electrical Contractor is responsible for all trenching excavations unless specified to the contrary. Cable trench excavations shall comply with the following dimensions: -

LV cable trench detail

- Trench depth : 800mm
- Trench width : 500mm
- Bedding : 75mm
- Cable cover : 75mm
- Sifted Backfill : 300mm
- Compact soil : 150mm layers
- Cable tape marker depth: 300mm beneath
final ground level
- Cable markers : maximum spacing 30m on straight runs,
and at every turn, cable joint or slack position

10. WIRING SCHEDULES

Item	Description	Cable Size	Earth Wire
1	Lighting	2.5mm ² PVC conductor	2.5mm ² bare copper earth wire
2	Plugs	4.0mm ² PVC conductor	2.5mm ² bare copper earth wire
3	Stove	6.0mm ² PVC conductor	2.5mm ² bare copper earth wire

11. LIGHT SCHEDULE

All light fittings with diffuser shall have a UV stabilised polycarbonate diffuser and all light fittings shall come with a 5year warranty.

TYPE	DESCRIPTION
Type A1	Downlight fitting complete with 24W LED bulb, 2 594 lumens, IP40 and 231V.
Type C	Surface mounted water tight, steam proof and corrosion proof bulkhead light fitting with 24W LED ES 27 globe, IP65, polycarbonate diffuser and 231V.
Type E	Turbo two light, R80 spot light fitting c/w 2 x 15W LED ES27 bulb, IP40 and 231V.
Type F20	Surface mounted water tight, steam proof and corrosion proof light fitting c/w 2 x 23W LED tubes, 2 150 lumens per lamp, IP66 and electronic control gear.

12. EARTHING SYSTEM

The earthing shall comply with SANS 10142 and NRS034.

The following are acceptable types of Earth Electrodes.

- Crows Foot Earth

The contractor will be responsible for the complete design of the earthing system and will issue a certificate of compliance by a reputable specialist in the field. The contractor will be required to conduct initial site resistivity measurements and to base the design of the earthing system on these tests. The engineer must witness all tests conducted. All designs for the earthing system must be approved by the engineer prior to commencement of construction.

Electrode holes are to be drilled to either 1.2 metre or 3 metre depth to suit the electrode size and filled with a conductive slurry mixture. Electrodes are to be 100mm in length.

Earth the building in accordance with the SANS 10142, SANS 10292 and SANS 10313.

Earth the following conductive paths:

- Main cold water pipe
- Roof
- Wire mesh support systems

Install bare copper earth wire connected to a local earth system with a value of less than 5 ohm in the following locations and connected to the earth systems with a 70mm² insulated earth cable:

- Existing build from where the electrical supply is coming from.

13. LIGHTNING PROTECTION

Install the lightning protection in terms of the Standard Specifications and SANS 10142, SANS 10292 and SANS 10313.

The down conductors must be spaced at regular intervals around the buildings and connected to the common earth system.

Arrange with the Engineer to witness all tests and measurements after completion of installation.

Submit a certificate of compliance issued by an accredited person from an approved company.

14. DRAWINGS

Drawings are as per the following table:

Document /drawing reference number	Description	Sheet size	Revision
ELEC - 01	LV Cable Reticulation Layout	A1	TD
ELEC – 02	Hostel – Lighting Layout	A1	TD
ELEC – 03	Hostel – Power Layout	A1	TD
ELEC – 04	Hostel – Earthing System Layout	A1	TD
ELEC – 05	Hostel – Lightning Protection System Layout	A1	TD
ELEC – 06	Manager`s House – Lighting and Small Power Layout	A1	TD
ELEC – 07	Manager`s House – Earthing and Lightning Protection System Layout	A1	TD
ELEC – 08	Single Line Diagrams Layout	A1	TD

SECTION 1.2

SCHEDULE OF MATERIALS OFFERED



SCHEDULE OF MATERIALS OFFERED

Contractors shall complete the following schedule of materials and equipment offered for verification by the Employer's Agent as being acceptable in terms of the specification applicable, before any such materials are procured for incorporation into the works.

The contractor undertakes that the actual materials and equipment supplied installed shall be in accordance with this schedule for items that are approved.

Where items are not approved alternative items shall be presented that do meet the specifications. This process shall be repeated until all items are approved.

Item	Material	Make & Trade Name	Country of Origin	Is Material to Specification (Yes / No)	SABS Mark (Yes / No)
1	Isolators				
2	Moulded Case Circuit Breakers				
3	Light Switches				
4	Socket Outlets				
5	Distribution boards				
6	Kiosks				
7	Armoured Cables				
8	PVC Insulated Conductors				
9	Cable Glands				
10	Conduits: PVC				
11	Earth Rods				
12	Daylight Switches				
13	Luminaires				
	Type A1				
	Type C				
	Type E				
	Type F20				
14	Earthing System				
15	Lightning Protection System				

SECTION 1.3

SCHEDULE OF PRICE VARIATIONS

SECTION 1.4

DRAWINGS



NOTES

GENERAL NOTES
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TD	Issued for Tender	Feb. 2023

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Mafikeng Industrial
Mafikeng 2745

PROJECT

MELTON RESEARCH FARM
HOSTEL

DRAWING DESCRIPTION

LV CABLE RETICULATION LAYOUT

PROJECT NO.

SCALE 1:300

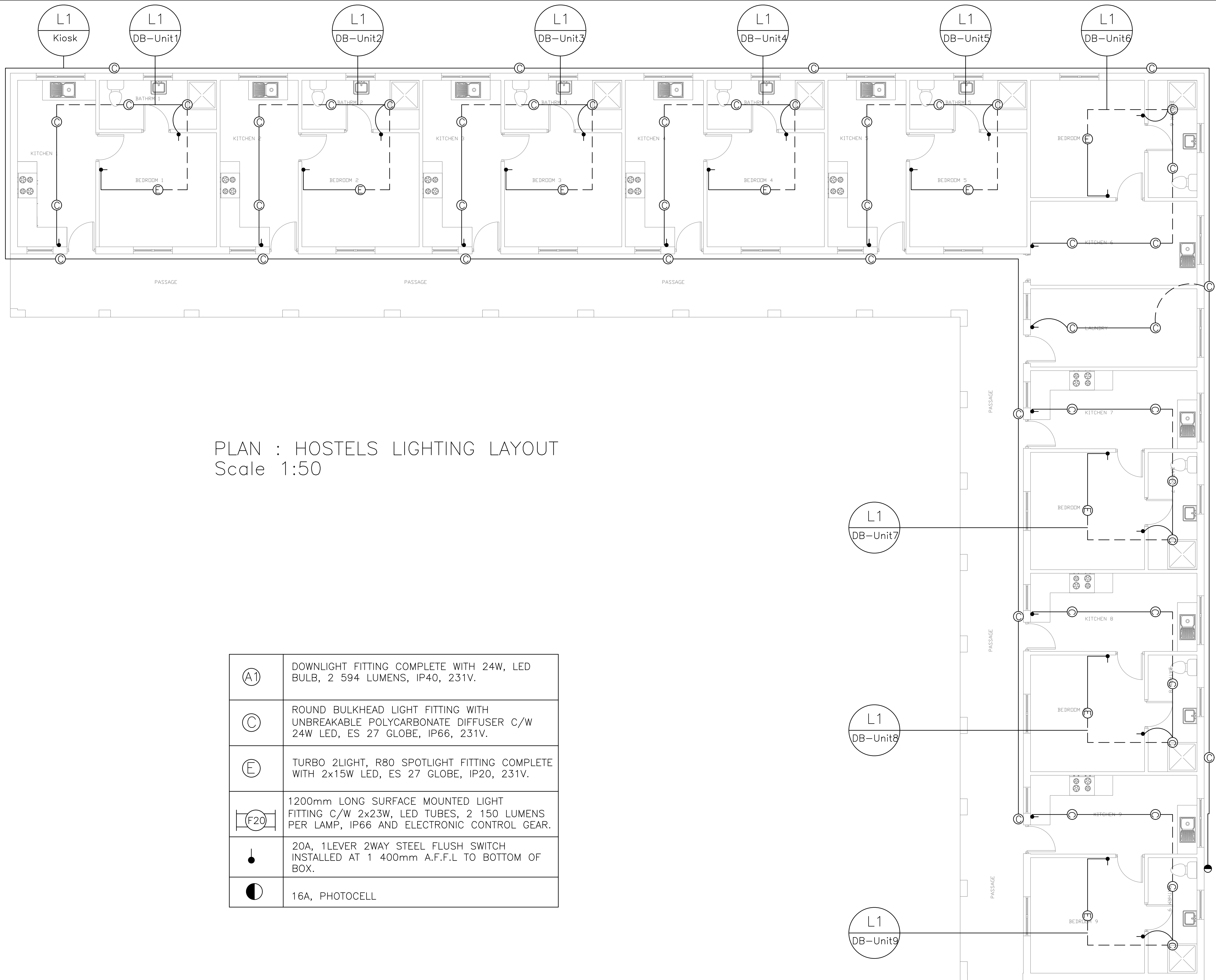
DRAWN BY W. C. DATE FEBRUARY 2023

CHECKED BY N. M. DATE FEBRUARY 2023

DRAWING NO.

ELEC - 01

ELECTRICAL



PLAN : HOSTELS LIGHTING LAYOUT
Scale 1:50

(A1)	DOWNLIGHT FITTING COMPLETE WITH 24W, LED BULB, 2 594 LUMENS, IP40, 231V.
(C)	ROUND BULKHEAD LIGHT FITTING WITH UNBREAKABLE POLYCARBONATE DIFFUSER C/W 24W LED, ES 27 GLOBE, IP66, 231V.
(E)	TURBO 2LIGHT, R80 SPOTLIGHT FITTING COMPLETE WITH 2x15W LED, ES 27 GLOBE, IP20, 231V.
(F20)	1200mm LONG SURFACE MOUNTED LIGHT FITTING C/W 2x23W, LED TUBES, 2 150 LUMENS PER LAMP, IP66 AND ELECTRONIC CONTROL GEAR.
●	20A, 1LEVER 2WAY STEEL FLUSH SWITCH INSTALLED AT 1 400mm A.F.F.L TO BOTTOM OF BOX.
◐	16A, PHOTOCELL

NOTES

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TD	Issued for Tender	Feb. 2023

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PROJECT

MELTON RESEARCH FARM

HOSTEL

DRAWING DESCRIPTION

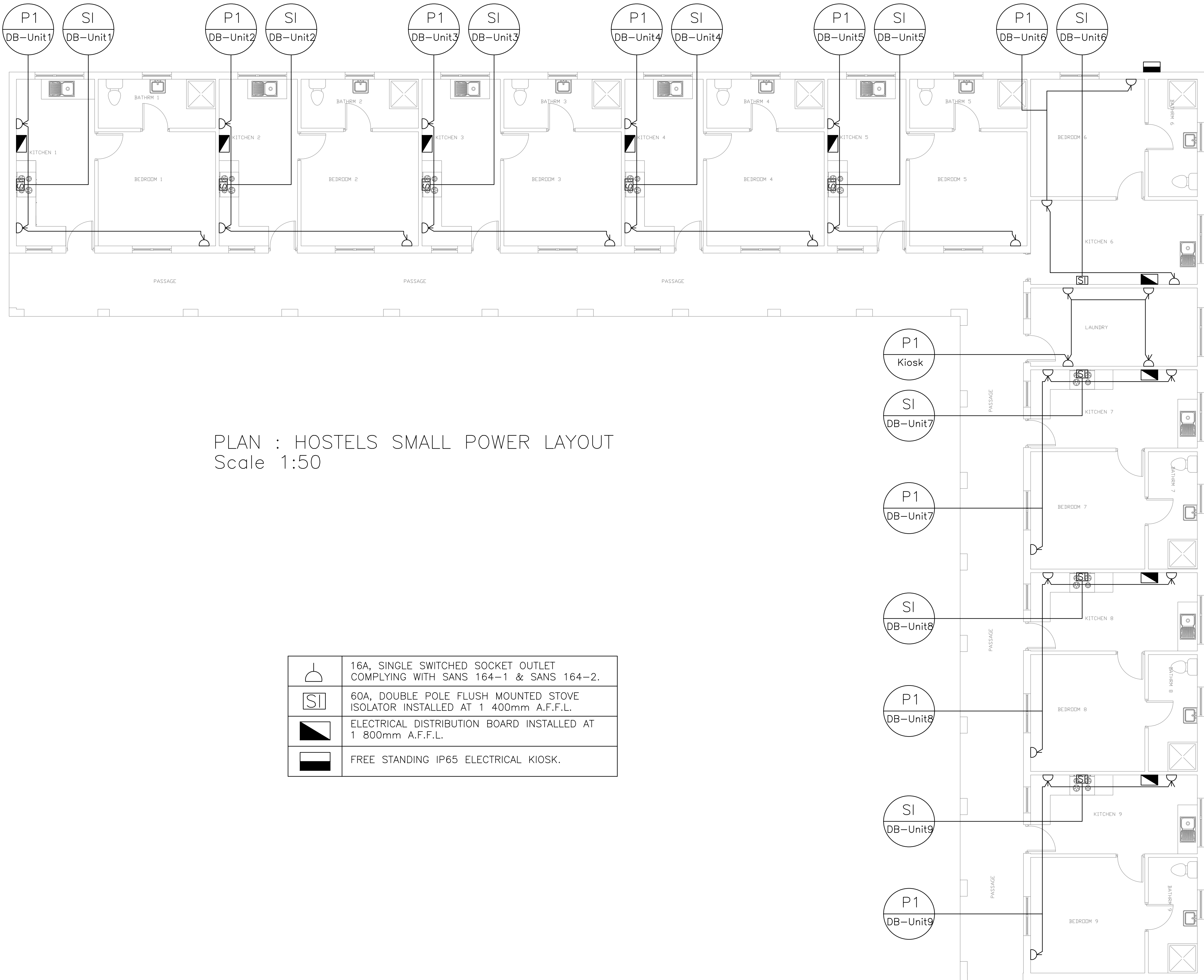
LIGHTING LAYOUT

PROJECT NO.	
SCALE	1:100
DRAWN BY	W. C
CHECKED BY	N. M
DATE	FEBRUARY 2023

DRAWING NO.

ELEC - 02

ELECTRICAL



PLAN : HOSTELS SMALL POWER LAYOUT
Scale 1:50

	16A, SINGLE SWITCHED SOCKET OUTLET COMPLYING WITH SANS 164-1 & SANS 164-2.
	60A, DOUBLE POLE FLUSH MOUNTED STOVE ISOLATOR INSTALLED AT 1 400mm A.F.F.L.
	ELECTRICAL DISTRIBUTION BOARD INSTALLED AT 1 800mm A.F.F.L.
	FREE STANDING IP65 ELECTRICAL KIOSK.

NOTES

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TD	Issued for Tender	Feb. 2023

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PROJECT
**MELTON RESEARCH FARM
HOSTEL**

DRAWING DESCRIPTION
SMALL POWER LAYOUT

PROJECT NO.	
SCALE 1:100	DATE FEBRUARY 2023
DRAWN BY W. C	CHECKED BY N. M
DATE FEBRUARY 2023	DATE FEBRUARY 2023

DRAWING NO.
ELEC - 03
ELECTRICAL



PLAN : HOSTELS EARTHING LAYOUT
Scale 1:50

EARTHING SYSTEM LEGEND:

	50mm ² BARE COPPER EARTH WIRE BURIED AT 1000mm DEPTH.
	Ø16mm VERTICALLY DRIVEN 1.5m SOLID COPPER EARTH ELECTRODE.

NOTE:
1. EARTHING AND LIGHTNING PROTECTION SYSTEM
SHOULD BE ACCORDING TO SANS 10142-1, SANS
10292, SANS 10313 AND BE DONE BY AN EARTHING
& LIGHTNING SPECIALIST WHO WILL ISSUE A TEST
CERTIFICATE.

NOTES

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TD	Issued for Tender	Feb. 2023

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PROJECT
**MELTON RESEARCH FARM
HOSTEL**

DRAWING DESCRIPTION
EARTHING SYSTEM LAYOUT

PROJECT NO.	
SCALE 1:100	
DRAWN BY W. C	DATE FEBRUARY 2023
CHECKED BY N. M	DATE FEBRUARY 2023

DRAWING NO.
ELEC - 04

ELECTRICAL



PLAN : HOSTELS LIGHTNING PROTECTION LAYOUT
Scale 1:50

LIGHTNING PROTECTION LEGEND:

	Ø16mm x 500mm LONG COPPER AIR TERMINATION ROD
	ROOF TERMINATION POINT TO GROUND EARTHING SYSTEM VIA A 50mm² BARE COPPER EARTH WIRE WITH TERMINATION BOX @ 300mm A.F.F.L.

- NOTE:
- EARTHING AND LIGHTNING PROTECTION SYSTEM SHOULD BE ACCORDING TO SANS 10142-1, SANS 10292, SANS 10313 AND BE DONE BY AN EARTHING & LIGHTNING SPECIALIST WHO WILL ISSUE A TEST CERTIFICATE.

NOTES

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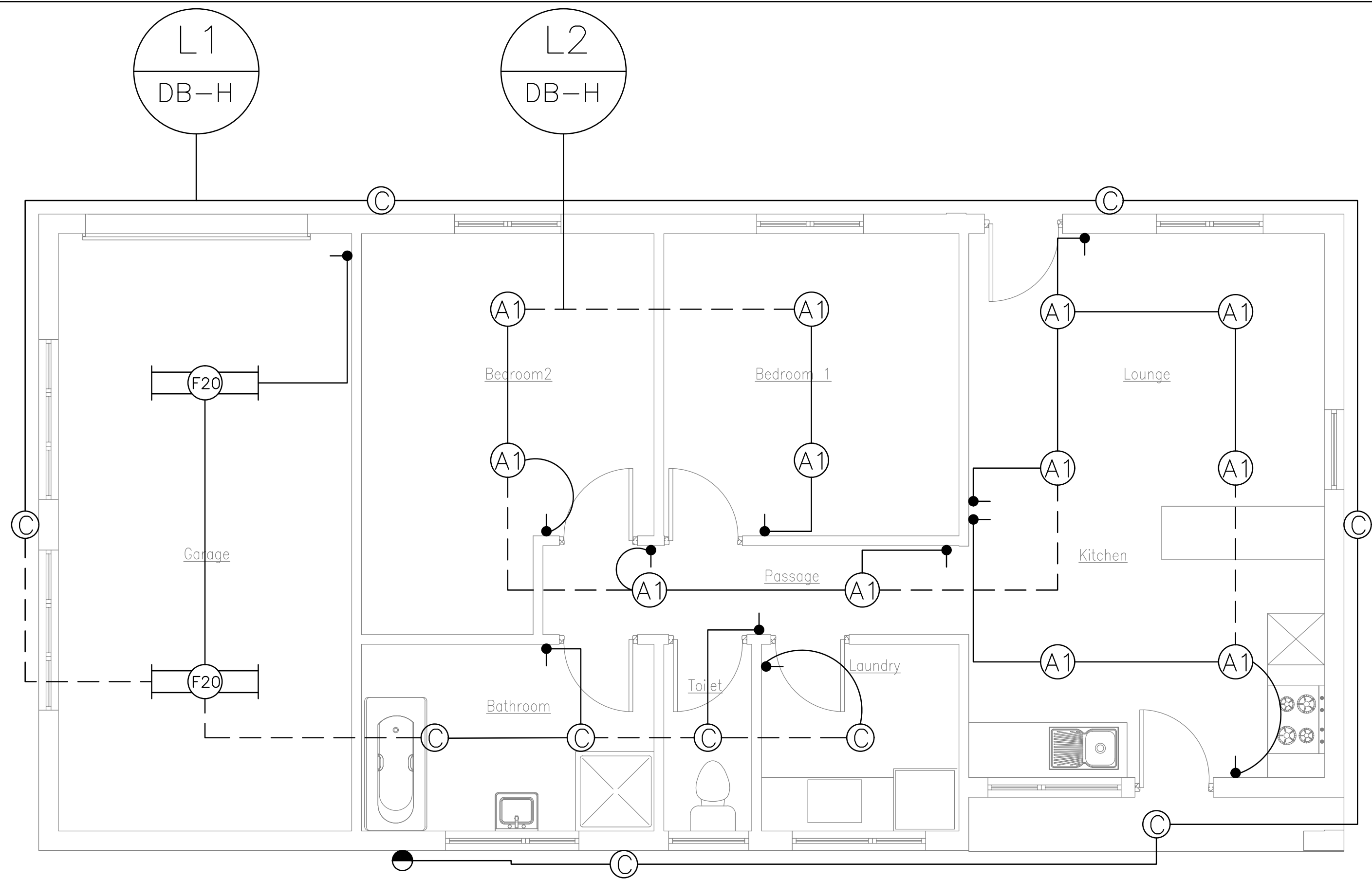
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Corner Nelson Mandela Drive & Aerodrome Road
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PROJECT
**MELTON RESEARCH FARM
HOSTEL**

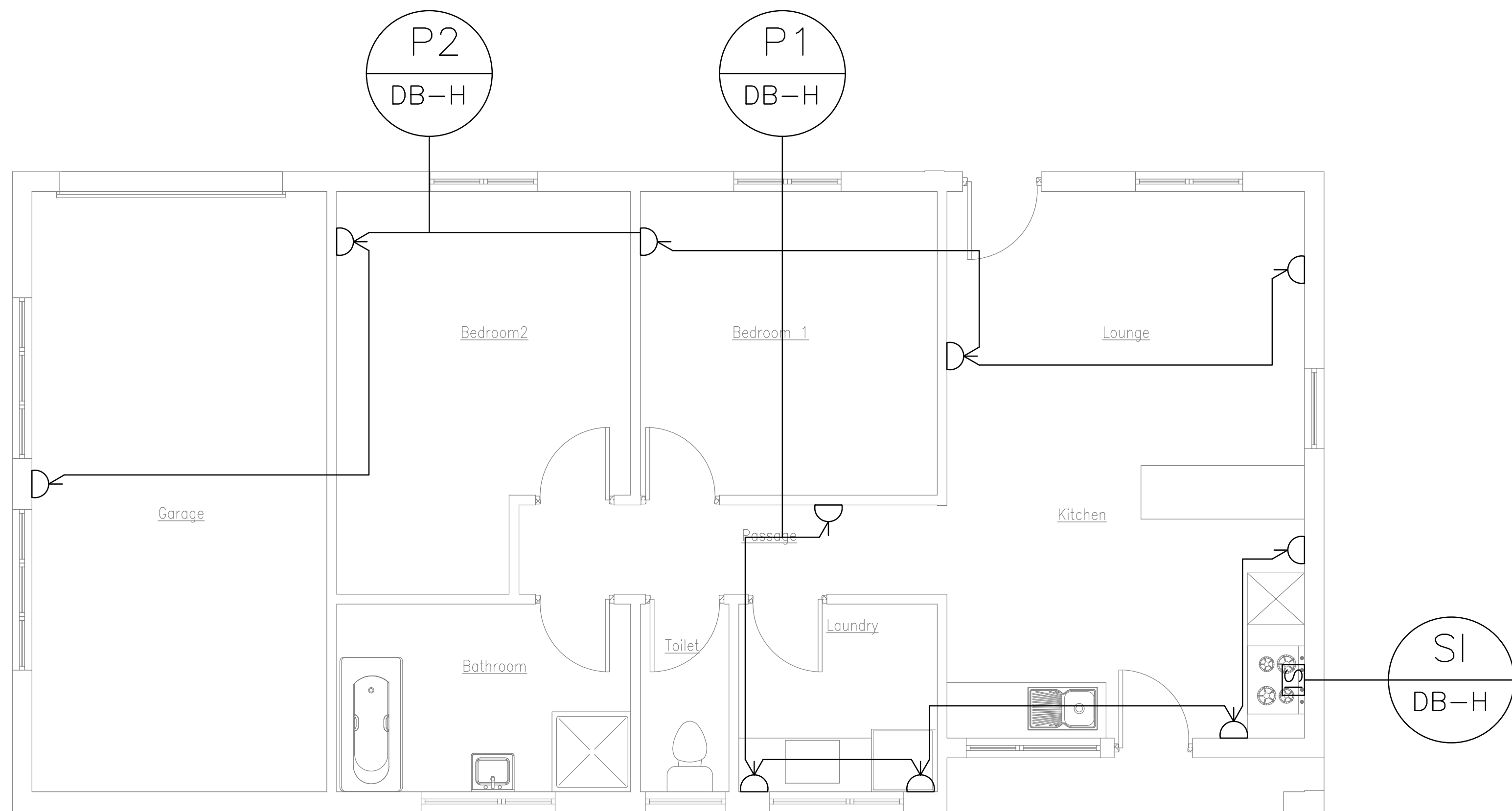
DRAWING DESCRIPTION
**LIGHTNING PROTECTION
SYSTEM LAYOUT**

PROJECT NO.	
SCALE	1:100
DRAWN BY	W. C
CHECKED BY	N. M
DATE	FEBRUARY 2023
DATE	FEBRUARY 2023

DRAWING NO.
ELEC - 05
ELECTRICAL



PLAN : MANAGER'S HOUSE LIGHTING LAYOUT
Scale 1:50



PLAN : MANAGER'S HOUSE SMALL POWER LAYOUT
Scale 1:50

(A1)	DOWNLIGHT FITTING COMPLETE WITH 24W, LED BULB, 2 594 LUMENS, IP40, 231V.
(C)	ROUND BULKHEAD LIGHT FITTING WITH UNBREAKABLE POLYCARBONATE DIFFUSER C/W 24W LED, ES 27 GLOBE, IP66, 231V.
(E)	TURBO 2LIGHT, R80 SPOTLIGHT FITTING COMPLETE WITH 2x15W LED, ES 27 GLOBE, IP20, 231V.
(F20)	1200mm LONG SURFACE MOUNTED LIGHT FITTING C/W 2x23W, LED TUBES, 2 150 LUMENS PER LAMP, IP66 AND ELECTRONIC CONTROL GEAR.
●	20A, 1LEVER 2WAY STEEL FLUSH SWITCH INSTALLED AT 1 400mm A.F.F.L TO BOTTOM OF BOX.
◐	16A, PHOTOCELL

⏏	16A, SINGLE SWITCHED SOCKET OUTLET COMPLYING WITH SANS 164-1 & SANS 164-2.
SI	60A, DOUBLE POLE FLUSH MOUNTED STOVE ISOLATOR INSTALLED AT 1 400mm A.F.F.L.
▬	ELECTRICAL DISTRIBUTION BOARD INSTALLED AT 1 800mm A.F.F.L.
□	FREE STANDING IP65 ELECTRICAL KIOSK.

NOTES

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PROJECT

MELTON RESEARCH FARM
MANAGER'S HOUSE

DRAWING DESCRIPTION

LIGHTING & SMALL POWER LAYOUT

PROJECT NO.

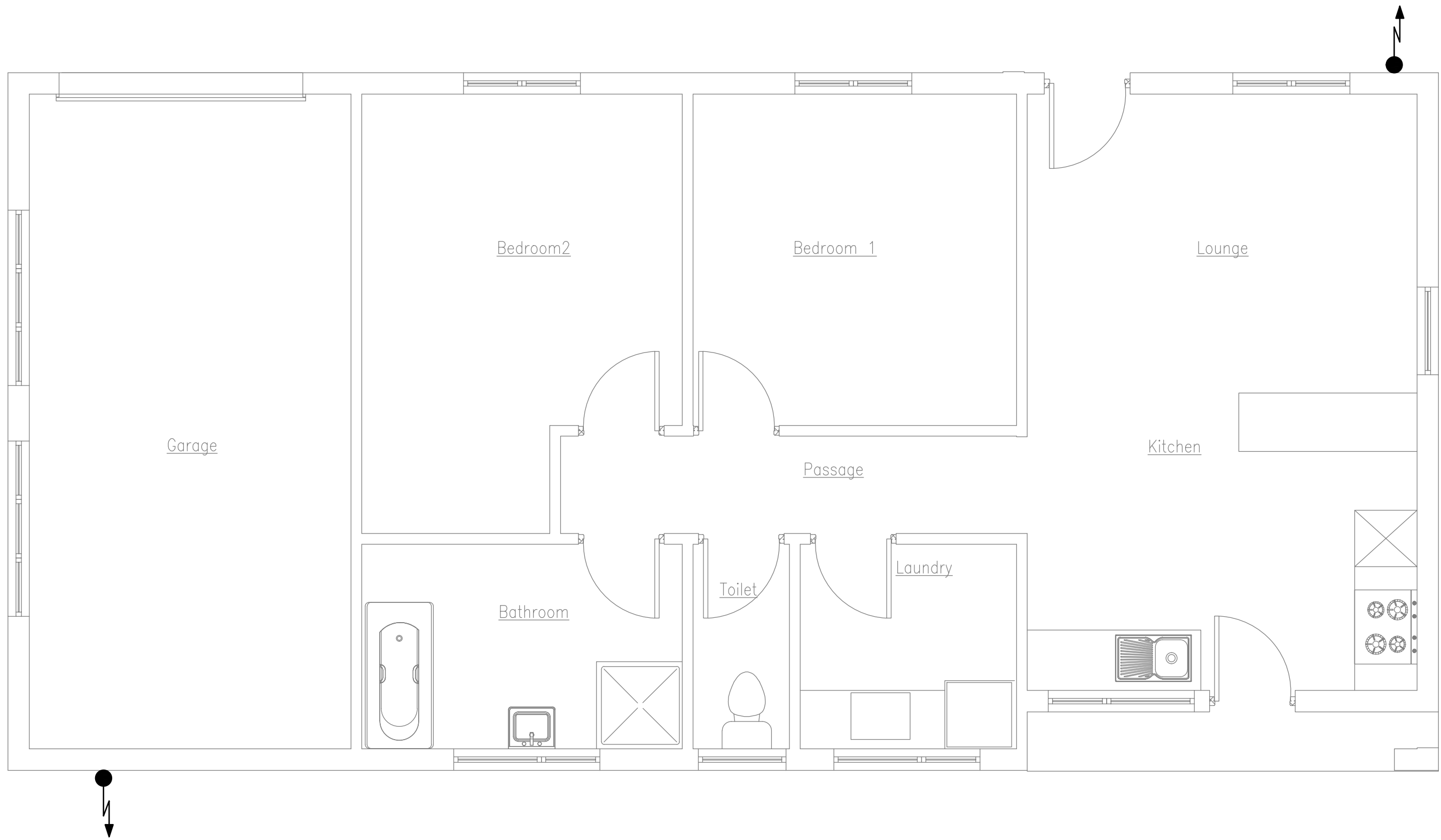
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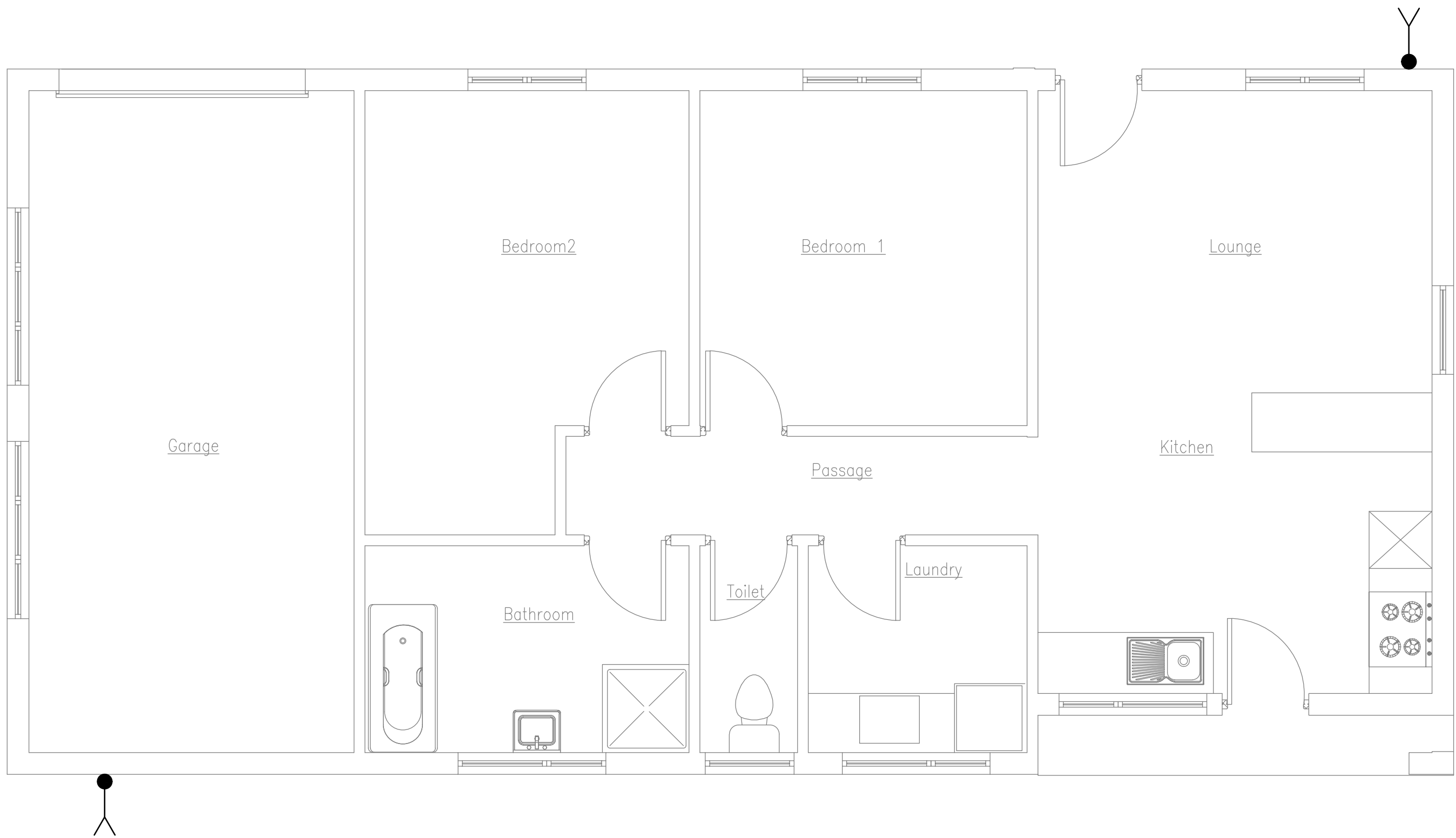
DRAWING NO.

ELEC - 06

ELECTRICAL



PLAN : MANAGER'S HOUSE EARTHING LAYOUT
Scale 1:50



PLAN : MANAGER'S HOUSE LIGHTNING PROTECTION LAYOUT
Scale 1:50

EARTHING SYSTEM LEGEND:

	50mm² BARE COPPER EARTH WIRE BURIED AT 1000mm DEPTH.
	16mm VERTICALLY DRIVEN 1.5m SOLID COPPER EARTH ELECTRODE.

- NOTE:
- EARTHING AND LIGHTNING PROTECTION SYSTEM SHOULD BE ACCORDING TO SANS 10142-1, SANS 10292, SANS 10313 AND BE DONE BY AN EARTHING & LIGHTNING SPECIALIST WHO WILL ISSUE A TEST CERTIFICATE.

LIGHTNING PROTECTION LEGEND:

	16mm x 500mm LONG COPPER AIR TERMINATION ROD
	ROOF TERMINATION POINT TO GROUND EARTHING SYSTEM VIA A 50mm² BARE COPPER EARTH WIRE WITH TERMINATION BOX @ 300mm A.F.F.L.

- NOTE:
- EARTHING AND LIGHTNING PROTECTION SYSTEM SHOULD BE ACCORDING TO SANS 10142-1, SANS 10292, SANS 10313 AND BE DONE BY AN EARTHING & LIGHTNING SPECIALIST WHO WILL ISSUE A TEST CERTIFICATE.

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PROJECT

MELTON RESEARCH FARM
MANAGER'S HOUSE

DRAWING DESCRIPTION

EARTHING & LIGHTNING PROTECTION
SYSTEM LAYOUT

PROJECT NO.

SCALE

1:100

DRAWN BY

W. C

CHECKED BY

N. M

DATE

FEBRUARY 2023

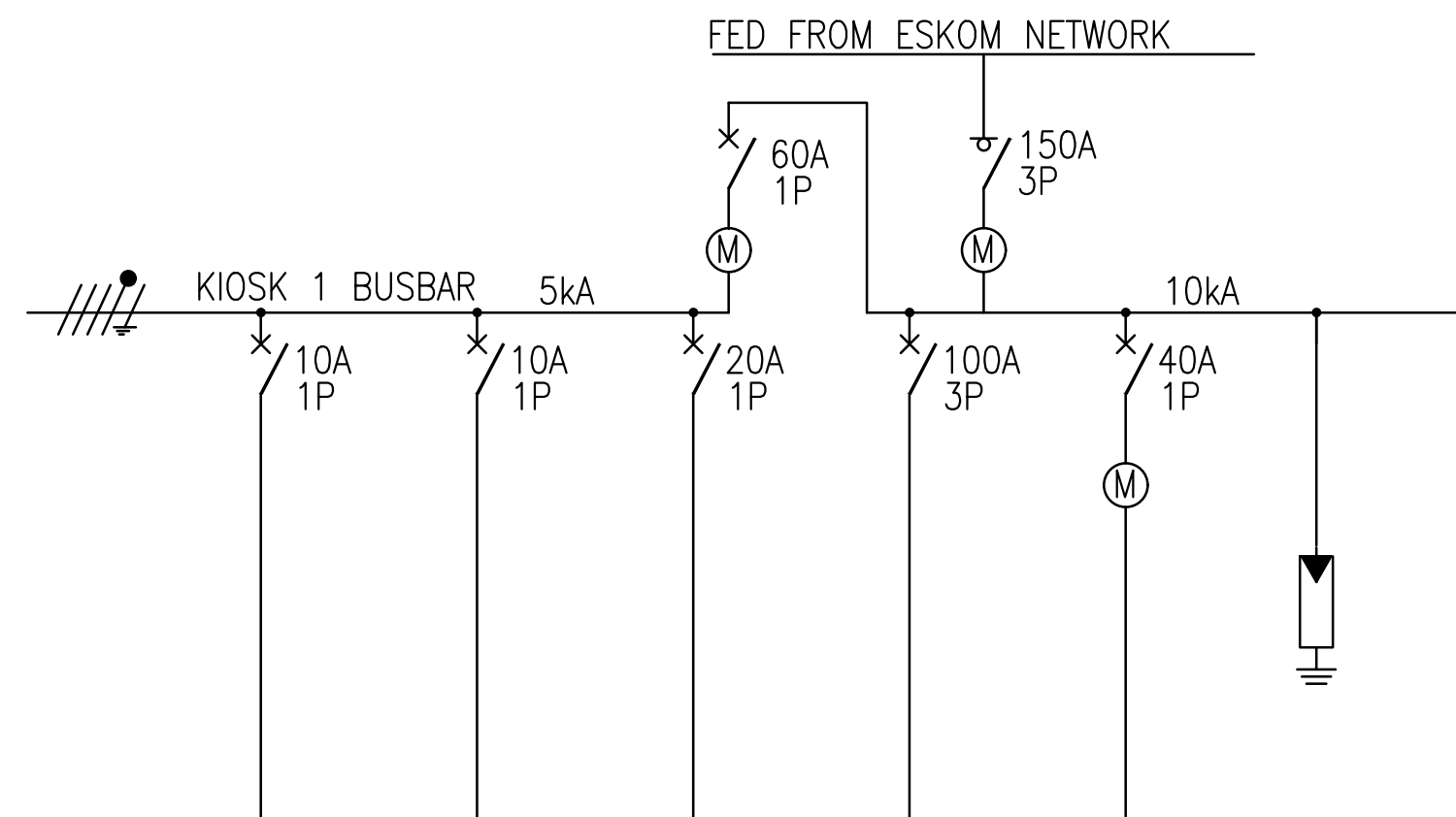
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FEBRUARY 2023

DRAWING NO.

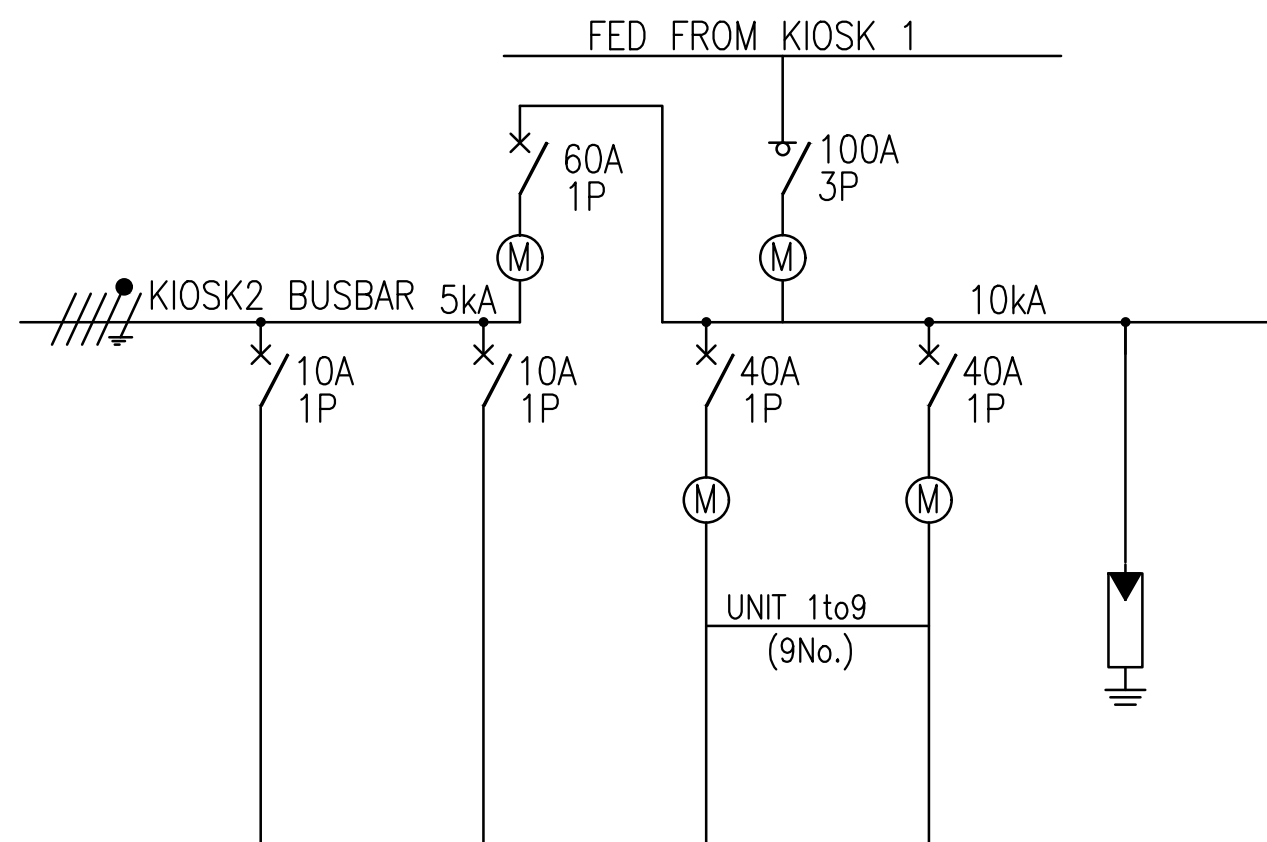
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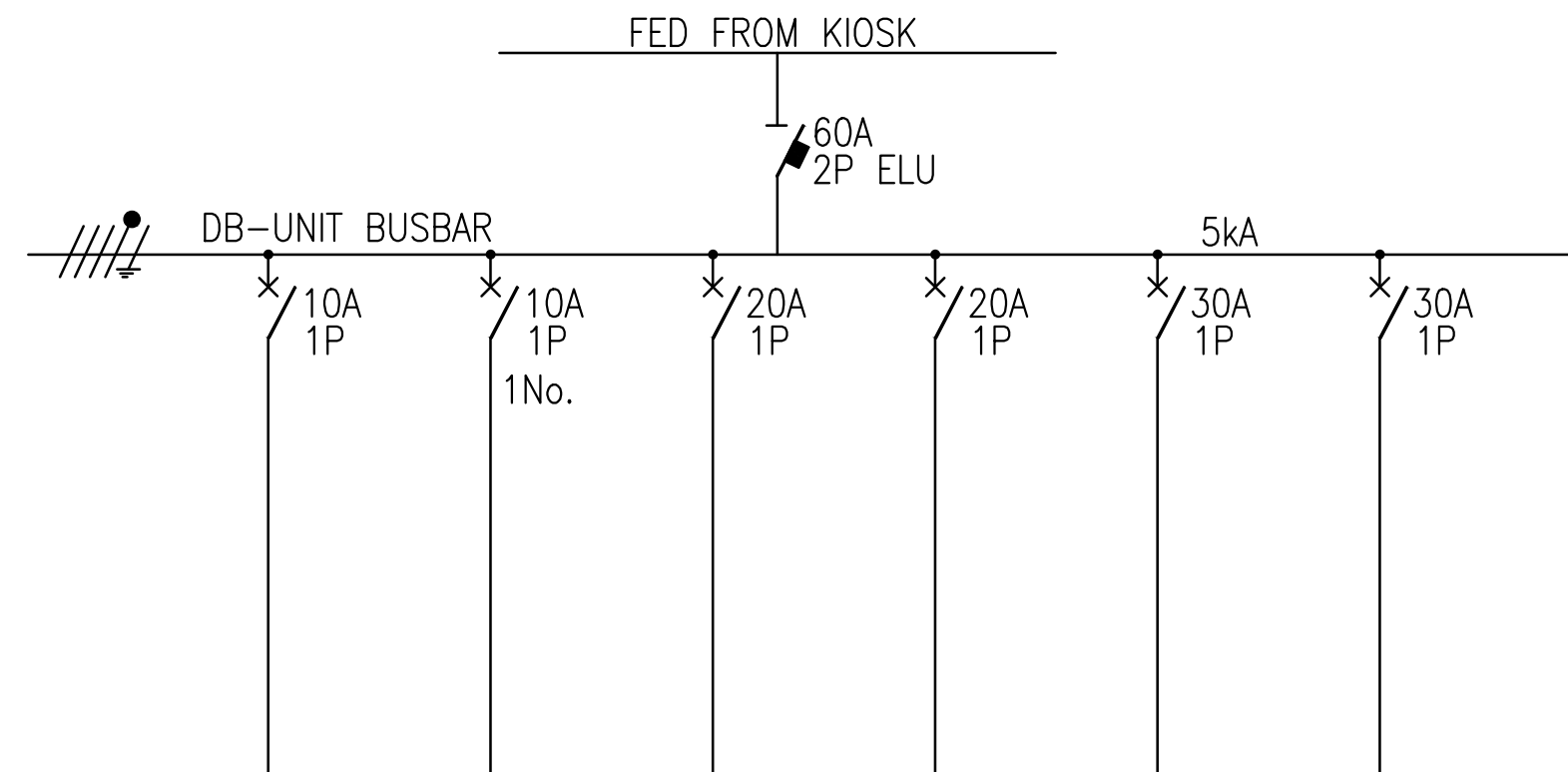
CONDUCTOR SIZE IN mm ²	2.5mm ² Single Core	2.5mm ² Single Core		50mm ² 4Core PVC/SWA/PVC	25mm ² 3Core PVC/SWA/PVC		
EARTH CONDUCTOR SIZE IN mm ²	2.5mm ² BCEW	2.5mm ² BCEW					
CONDUIT SIZE IN ømm	ø20mm PVC	ø20mm PVC		BURIED UNDERGROUND	ø50mm PVC SLEEVE		
LABEL	L1	L2		KIOSK 2	DB-MANAGER'S HOUSE		SPARE SPACE 25%
EQUIPMENT	LIGHTS		SPARE	FEEDER CABLES			

KIOSK 1, FREESTANDING, IP65



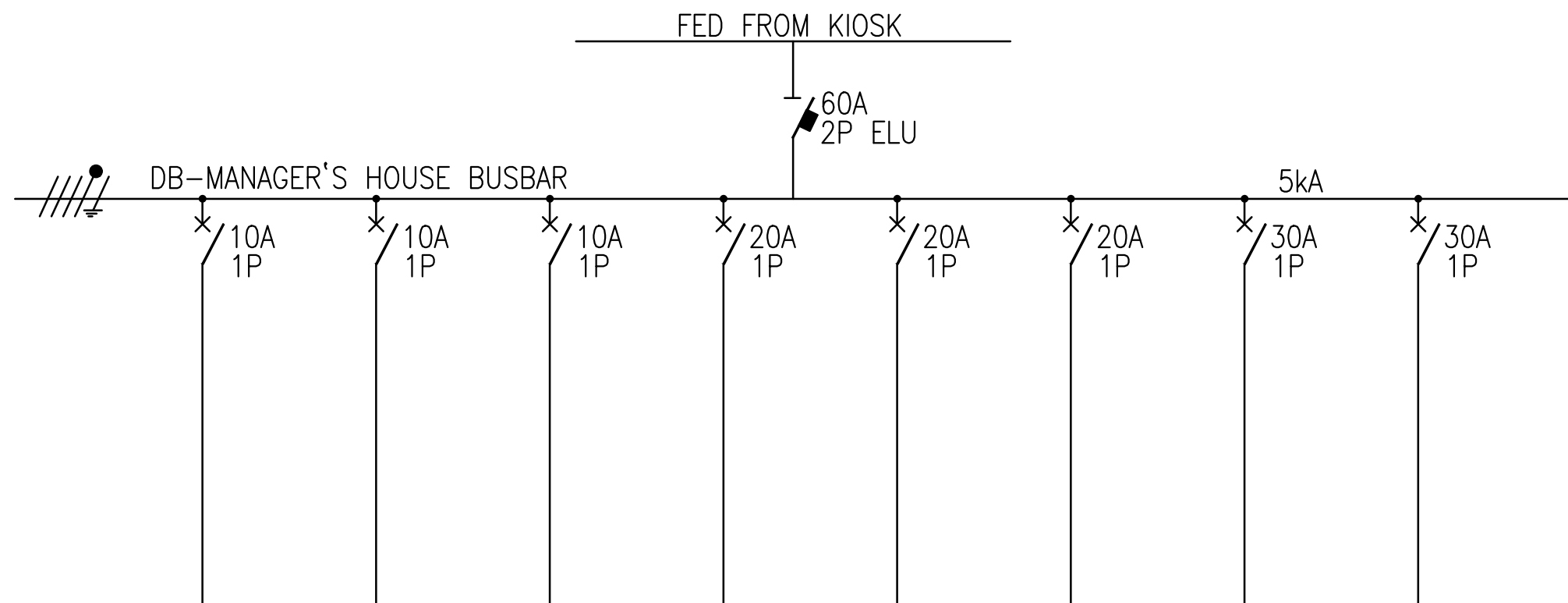
CONDUCTOR SIZE IN mm ²	2.5mm ² Single Core	2.5mm ² Single Core	25mm ² 3Core PVC/SWA/PVC	25mm ² 3Core PVC/SWA/PVC		
EARTH CONDUCTOR SIZE IN mm ²	2.5mm ² BCEW	2.5mm ² BCEW				
CONDUIT SIZE IN ømm	ø20mm PVC	ø20mm PVC	ø50mm PVC SLEEVE	ø50mm PVC SLEEVE		
LABEL	L1	L2	DB-UNIT 1 to UNIT 9			SPARE SPACE 25%
EQUIPMENT	LIGHTS		FEEDER CABLES			

KIOSK 2, FREESTANDING, IP65



CONDUCTOR SIZE IN mm ²	2.5mm ² Single Core		4.0mm ² Single Core		4.0mm ² Single Core	4.0mm ² Single Core	
EARTH CONDUCTOR SIZE IN mm ²	2.5mm ² BCEW		2.5mm ² BCEW		2.5mm ² BCEW	2.5mm ² BCEW	
CONDUIT SIZE IN ømm	ø20mm PVC		ø20mm PVC		ø20mm PVC	ø20mm PVC	
LABEL	L1	SPARE	P1	SPARE	SI	G	SPARE SPACE 25%
EQUIPMENT	LIGHTS		SOCKET OUTLETS		STOVE	GEYSER	

TYPICAL UNITS DB



CONDUCTOR SIZE IN mm ²	2.5mm ² Single Core	2.5mm ² Single Core		4.0mm ² Single Core	4.0mm ² Single Core		4.0mm ² Single Core	4.0mm ² Single Core	
EARTH CONDUCTOR SIZE IN mm ²	2.5mm ² BCEW	2.5mm ² BCEW		2.5mm ² BCEW	2.5mm ² BCEW		2.5mm ² BCEW	2.5mm ² BCEW	
CONDUIT SIZE IN ømm	ø20mm PVC	ø20mm PVC		ø20mm PVC	ø20mm PVC		ø20mm PVC	ø20mm PVC	
LABEL	L1	L2	SPARE	P1	P2	SPARE	SI	G	SPARE SPACE 25%
EQUIPMENT	LIGHTS			SOCKET OUTLETS			STOVE	GEYSER	

TYPICAL UNITS DB

SCHEMATIC SYMBOL LIST:

	MOULDED CASE CIRCUIT BREAKER (xA, rating Amps)(xP, poles)		3PHASE, NEUTRAL & EARTH BAR (xA, fault level rating)
	ON LOAD ISOLATOR (xA, rating Amps)(xP, poles)		SURGE ARRESTOR (xA, rating Amps) (xA, fault level rating)
	EARTH LEAKAGE (xA, rating Amps) (xP, poles)(xmA, relay value)		DIGITAL DISPLAY KILOWATT-HOUR METER WITH DATA STORAGE & 15 MINUTES BATTERY BACK-UP
	CONTACTOR (xA, rating Amps) (xP, poles)	1P	SINGLE POLE
	EARTH LEAKAGE WITH OVERLOAD (xA, rating Amps)(xP, poles) (xmA, relay value)	2P	DOUBLE POLE
		3P	TRIPLE POLE
		ELU	EARTH LEAKAGE UNIT

NOTES

GENERAL NOTES
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TD	Issued for Tender	Feb. 2023

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CLIENT



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Mafikeng 2745

PROJECT

MELTON RESEARCH FARM

DRAWING DESCRIPTION

SINGLE LINE DIAGRAMS

PROJECT NO.

SCALE

1:100

DRAWN BY

W. C

DATE

FEBRUARY 2023

CHECKED BY

N. M

DATE

FEBRUARY 2023

DRAWING NO.

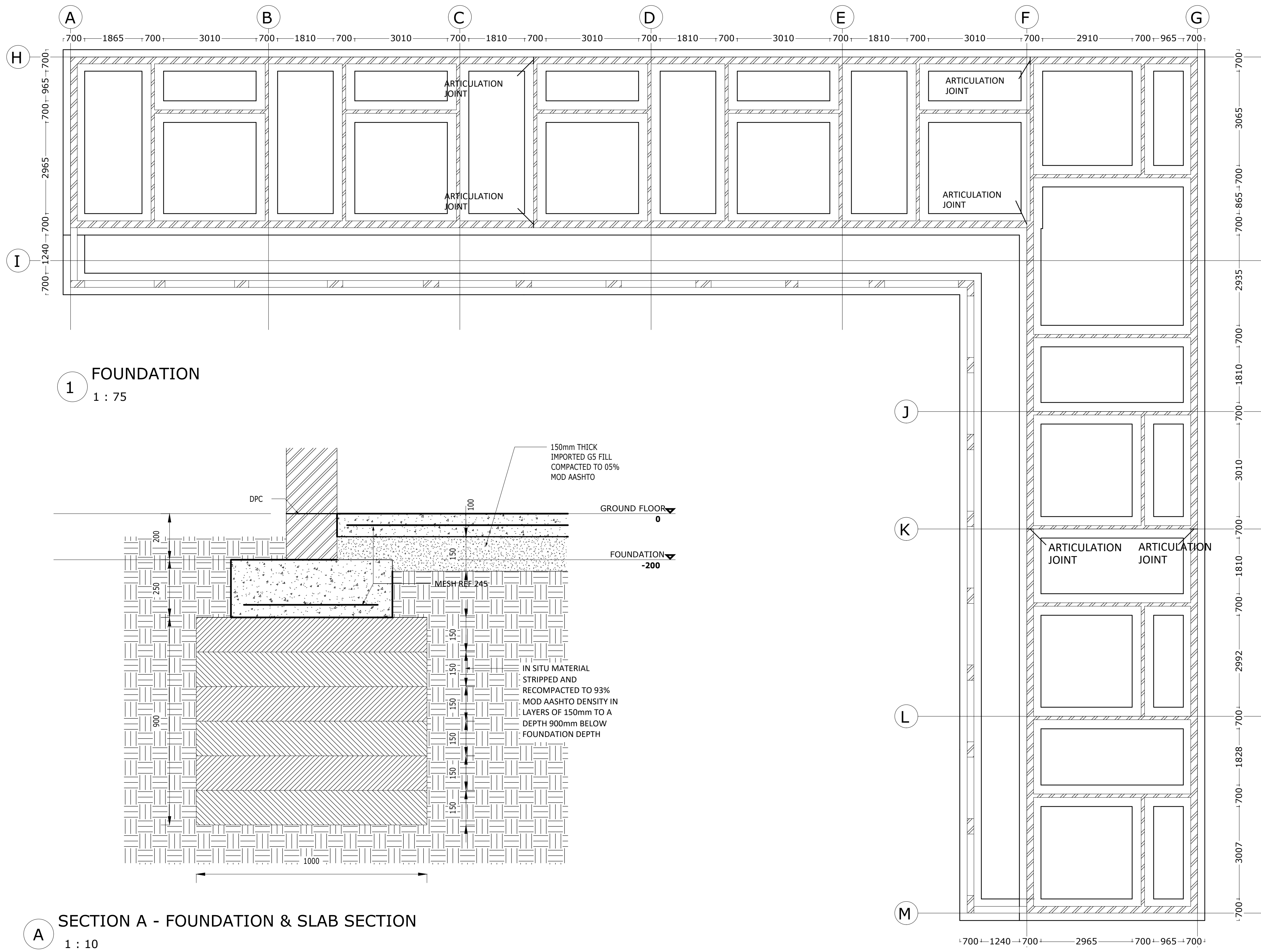
ELEC - 08

ELECTRICAL

INDEPENDENT DEVELOPMENT TRUST

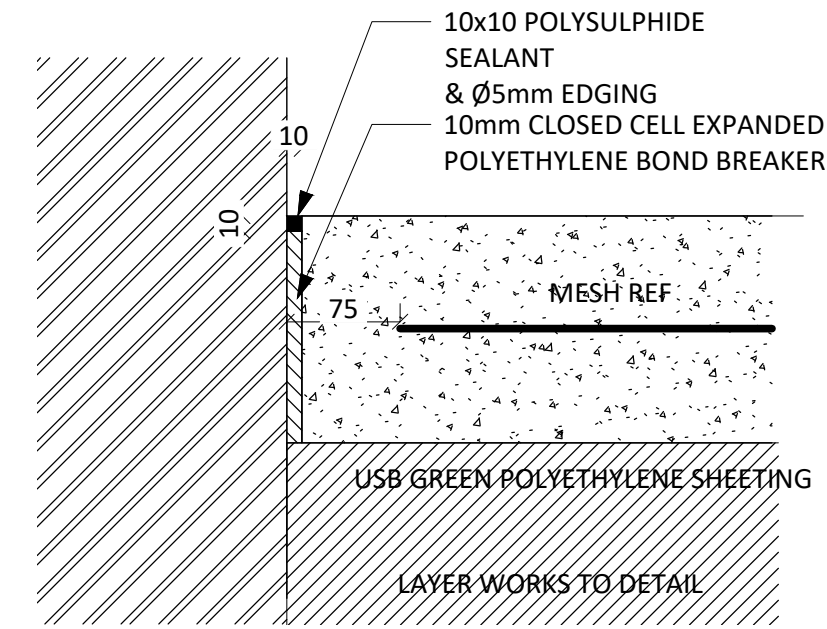
**PROCUREMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 9 SINGLE
QUARTERS FOR FARM STAFF, 2-BEDROOM MANAGER'S HOUSE &
DEMOLITION OF EXISTING ASBESTOS SINGLE QUARTERS FOR THE
DEPARTMENT: AGRICULTURE AND RURAL DEVELOPMENT, NORTHWEST
PROVINCE**

ANNEXURE C: CIVIL & STRUCTURAL DRAWINGS

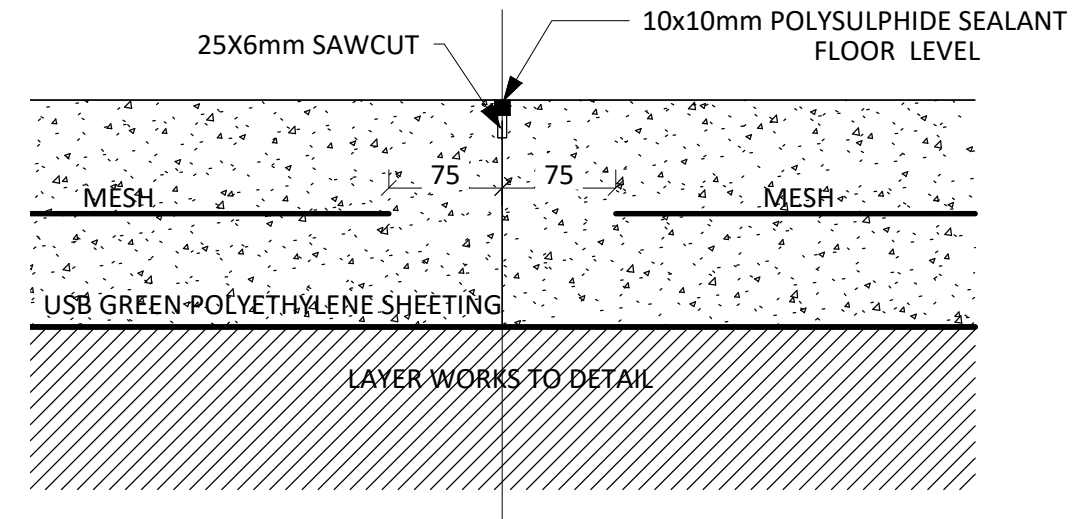


1 FOUNDATION
1 : 75

A SECTION A - FOUNDATION & SLAB SECTION
1 : 10



3 ISOLATION JOINT DETAIL
1 : 5



2 SAW CUT JOINT DETAIL
1 : 5

NOTES

CONSTRUCTION NOTES:
1. ALL FOUNDATIONS TO BE FOUNDED A MINIMUM OF 400mm BELOW NGL, ON 900mm OF IN SITU MATERIAL RIPPED AND COMPACTED TO 93% MOD AASHTO DENSITY IN 150mm LAYERS
2. FOUNDATIONS TO BE INSPECTED AND APPROVED BY ENGINEER PRIOR TO CASTING OF CONCRETE.
3. ALL FOUNDATION TRENCHES TO BE FREE OF ALL LOOSE MATERIAL AND TRENCH BOTTOMS TO BE COMPACTED BY A MECHANICAL PLACE COMPACTOR PRIOR TO REBAR INSTALLATION.
4. CONCRETE GRADE TO BE 30MPa FOR ALL CONCRETE WORKS

NO	REVISION	DATE

ARCHITECT

BOSELE CONSULTING

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CLIENT

idt

2306 Aerodrome Dada Motors Building
Corner Nelson Mandela Drive & Aerodrome Road
Mafikeng Industrial
Mafikeng 2745

PROJECT

MELTON RESEARCH FARM

DRAWING DESCRIPTION

HOSTELS
FOUNDATION LAYOUT & DETAILS

PROJECT NO.

SCALE AS SHOWN

DRAWN BY T.T

CHECKED BY H.U

DATE 27 JANUARY 2023

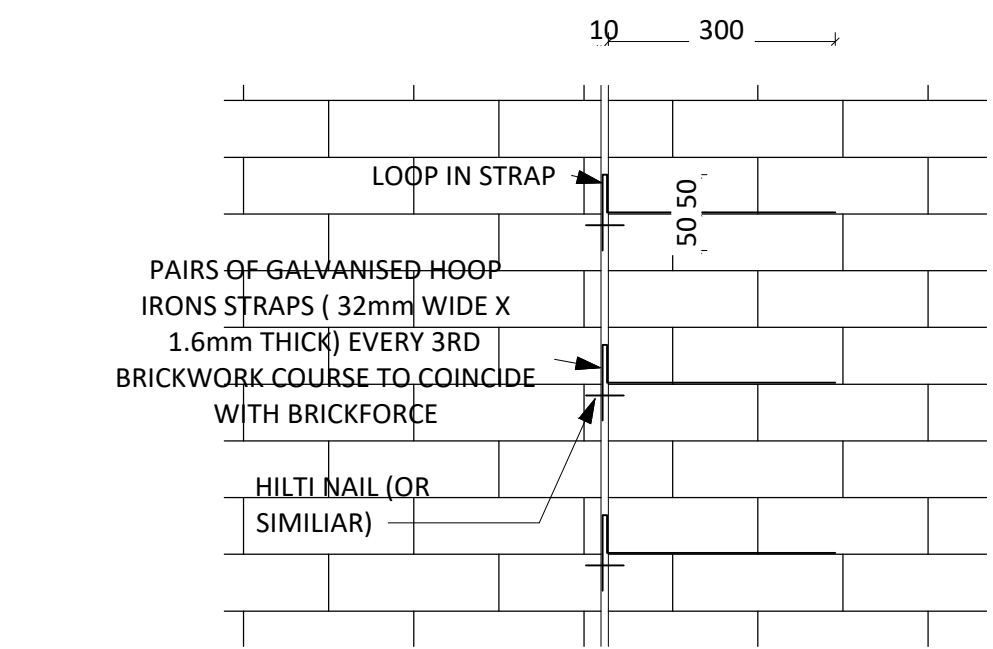
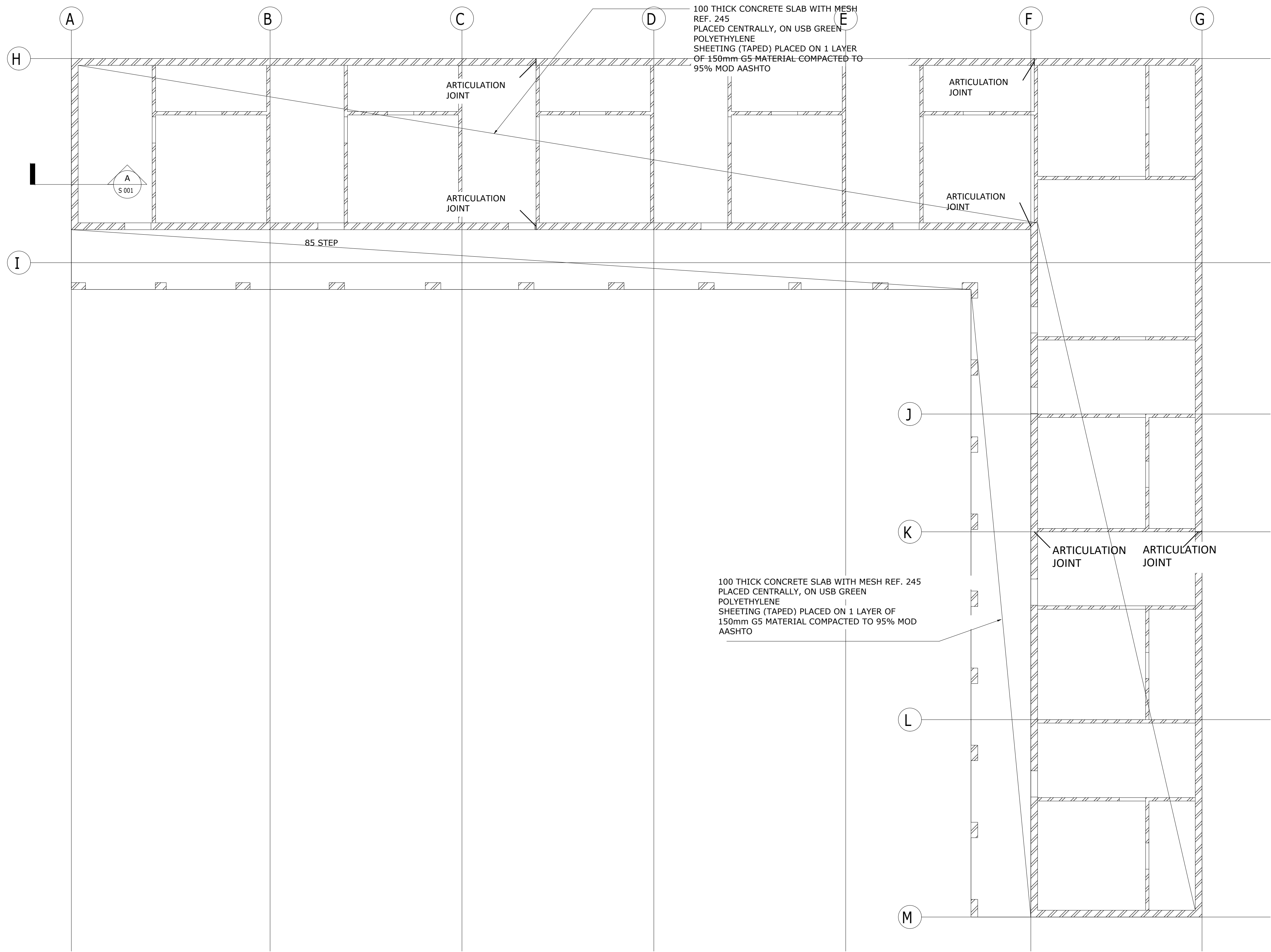
DATE 27 JANUARY 2023

DRAWING NO.

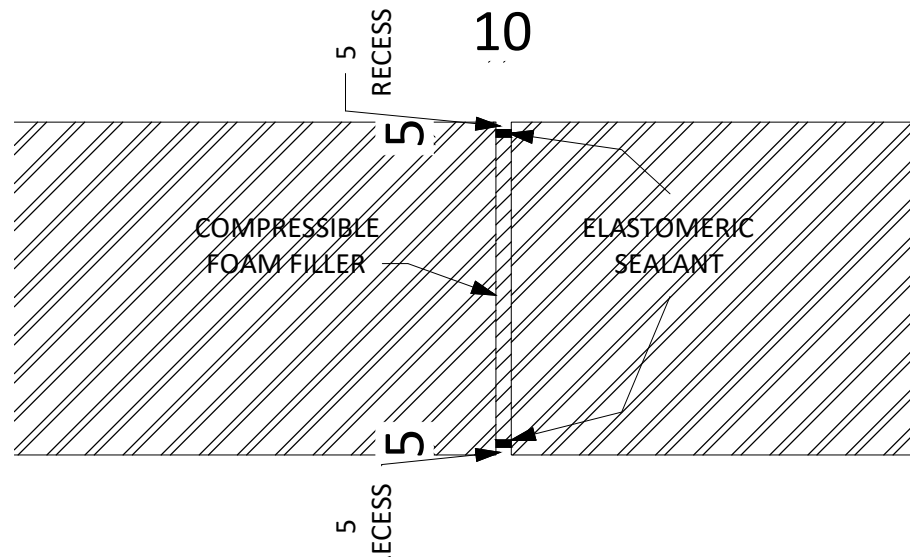
S002

STRUCTURAL

1 GROUND FLOOR
1 : 75



2 Movement Joint Detail Elevation
1 : 10



3 Movement Joint Detail Plan
1 : 5

NOTES

- CONSTRUCTION NOTES:
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NO	REVISION	DATE

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Mafikeng Industrial
Mafikeng 2745

PROJECT

MELTON RESEARCH FARM

DRAWING DESCRIPTION

**HOSTELS
GROUND LAYOUT & DETAILS**

PROJECT NO.

SCALE	AS SHOWN	DATE	27 JANUARY 2023
DRAWN BY	T.T	DATE	27 JANUARY 2023
CHECKED BY	H.U	DATE	27 JANUARY 2023

DRAWING NO.

S003

STRUCTURAL