



national film and video foundation
SOUTH AFRICA
an agency of the Department of Sport, Arts and Culture

TENDER DOCUMENT
FOR
THE APPOINTMENT OF A CONTRACTOR TO CARRY
OUT THE PHASE 2 REFURBISHMENT OF THE
EASTERN CAPE FILM HUB
AT
33 CHURCH STREET, QUIGNEY, EAST LONDON

ISSUED BY:

NATIONAL FILM AND VIDEO FOUNDATION (NFVF)

TENDER REFERENCE NUMBER: RFT 05 2021-2022

TENDER CLOSING DATE: 10 JANUARY 2022 at 11H00

NAME OF THE TENDERER: :
.....
TEL NUMBER :
.....
FAX NUMBER :
.....

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PART A: LIST OF RETURNABLE SCHEDULES (*Compulsory*)

SECTION 1 - CONTRACT (Returnable)

TENDER DATA SUMMARY

Information Meeting	The arrangements for a compulsory information session are: Eastern Cape Film Hub at 33 Church Street, Quigney, East London Date: 8 December 2021, Starting time: 11:00 am to 12:00 pm
Closing Time	The closing time for submission of Tender offers is: 11:00 am on 10th January 2022 Telephonic, telegraphic, telex, facsimile or printed Tender offers will NOT be accepted.
Opening of Tender Submissions	The time and location for opening of the tender offers: Since the submission is electronical, the Tenders will not be opened in Public, however the names of companies that submitted the tender offers will be published on the NFVF website.
Tender Offer Validity	The Tender offer validity period is twelve (12) weeks.
Submitting a Tender Offer	Documents submitted must be in readable pdf format. Multiple files can be used to ensure that no part of the submission is larger than 8 Mega Bytes (8MB) SUBMISSIONS MUST BE EMAILED TO nvftenders@nfvf.co.za AND nkinamab@nfvf.co.za ON OR BEFORE THE CLOSING DATE AND TIME. TENDER Identification details: Contract Number: RFT 05 2021-2022 Description of project: TENDER DOCUMENT FOR THE APPOINTMENT OF A CONTRACTOR TO CARRY OUT THE PHASE 2 REFURBISHMENT OF THE EASTERN CAPE FILM HUB ON BEHALF OF THE NATIONAL FILM AND VIDEO FOUNDATION (NFVF) AT 33 CHURCH STREET, QUIGNEY, EAST LONDON

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Alternative Tender Offers	No variance on Tender specifications will be accepted and thus no alternative tender submissions will be accepted.
Two-Envelope System	This is an electronic submission and will the two-envelope system does not apply.
Additional Conditions applicable to this tender	<p>The additional conditions of Tender are:</p> <ol style="list-style-type: none"> 1 The Employer may also request that the Tenderer provide written evidence that their financial, labour and other resources are adequate for carrying out the contract. 2 The Employer reserves the right to appoint a firm of chartered accountants and auditors and/or execute any other financial investigations on the financial resources of any Tenderer. The Tenderer shall provide all reasonable assistance in such investigations. 3 The Tender document shall be submitted utilising the downloaded documents only. 4 All documents identified as returnable documents must be completed in full and signed as failure to do so may lead in total disqualification. (A Tenderer's company profile will not be used by NFVF during the Tender Evaluation process.) 5 Tenderers must ensure to provide the documents as identified and requested in the various sections of the complete tender document and ensure to include any supporting information requested.
Possession of Site / Contract Start Date	<p>No physical possession of site will take place. Contractor will program work to indicate on a detailed program the dates when specific activities will be done on site and in which area of the building. Access will be granted in accordance to the program.</p> <p>Contract start date will be the date of Contract Signing.</p>
Period for Commencement of Works	In accordance of Contractor's accepted program of works.
Amount of Variable Guarantee	10% of Tender Sum (Excluding VAT)
Time within which Guarantee to be provided	<input type="checkbox"/> 00000000000000000000 21 <input type="checkbox"/> calendar days <input type="checkbox"/> from commencement date
Payment for materials and goods stored off site	On Inspection and acceptance by Principal Agent and Agents at sole risk of Contractor
Time for Completion	110 Working Days (Practical Completion Date: 22 June 2022)

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Amount of penalty	An amount equal to one fourteenth percent of the contract sum (exclusive of VAT) per calendar day or, in lieu of such a penalty, milestone penalties based on Contractor's accepted program's main deliverable dates.
Contract Works Insurance	By Contractor for a sum equal to the Contract Sum plus 20%
Public Liability Insurance	By Contractor for an amount of R 5 000 000-00
Priced Bills of Quantities to be submitted	Contractor to submit priced bills of quantities as part of Tender submission. <ul style="list-style-type: none">• Main Bills of Quantities• Bills of Quantities: Electrical Installation• Bills of Quantities: Air Conditioning and Ventilation• Bills of Quantities: Lift Installation• Bills of Quantities: Fire Protection
Subject to Escalation	No This is a Fixed Price Tender
Interim Payment Terms	Within 21 calendar days of issue of the payment certificate. Issue of Interim Certificates will be monthly.
Hard Copies of the Submitted Tender Documents	The Contractor must on issue of award offer of tender to Contractor, and acceptance of such offer, deliver at the Contractors cost 3 Copies of the full submission to the NFVF for comparison with electronic submission and final signing of Contract by both parties in East London.

I certify that I have read and understood the conditions and requirements stated above.

NAME OF TENDERER

SIGNATURE OF TENDERER

DATE

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MANDATORY DOCUMENTATION

THE FOLLOWING LIST OF ITEMS HAVE TO BE SUBMITTED WITH THE TENDER BID AND FAILURE TO DO SO MAY INVALIDATE THE TENDER.

Check List of Items	Tenderers to use check list and submit acknowledgement of inclusion / completion of each item in the submission.
Form of Tender	Tenderers are to duly complete, sign and submit the tender form.
Certificate of Site Inspection (Information Session)	Site Inspection (Information Session) on the said date is compulsory , tenderers are to duly complete, have signed and submit the original.
Letter of Intent from Accredited Guarantor	Tenderers are to duly complete, sign (by guarantor as well) and submit the original, inclusive of an original letter from the financial institution.
Letter of Good Standing	Tenderers are to submit a certified copy of Letter of Good Standing.
Construction Program	Tenderers are to submit their proposed construction methodology, proposed programme, resource structure and allocation for the project.
Tax Clearance Certificates	Tenderers are to submit certified original tax clearance certificates valid for 60 calendar days after tender closing date. Or the SARS issued Pin for verification of Tax Compliance Status
CIDB Certificates	Tenderers are to submit certified original CIDB registration certificates
Joint Venture Agreements	Tenderers are to submit JV agreements if tendering as a Joint Venture or Consortium.
CSD Registration	Tenderers are to submit proof of CSD registration
Local Sub-Contractors & Specialist Contractors & Product/Material Suppliers	Tenderers are to provide detail profiles and information regarding Sub-Contractors, Specialist Contractors and product / Material Suppliers as part of this Tender submission.
Construction Regulations in terms of Occupational Health and Safety Act	Tenderers are to submit a confirmation of their understanding, compliance and deliverables for the compliance to and implementation of the Occupational Health and Safety Act Construction Regulations.

I certify that I have read and understood the conditions and requirements stated above.

NAME OF TENDERER

SIGNATURE OF TENDERER

DATE

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RETURNABLE CHECK LIST -FAILURE TO SUBMIT ANY OF THE REQUIRED DOCUMENTS BELOW MAY LED TO TOTAL DISQUALIFICATION

- | | |
|---------------------------------------------------------------------------------------------------------------|--------------------------|
| 1) Tender Summary | <input type="checkbox"/> |
| 2) All SBD Forms | <input type="checkbox"/> |
| 3) Form of Tender | <input type="checkbox"/> |
| 4) Notice to Tenderers | <input type="checkbox"/> |
| 5) Certificate of Site Inspection | <input type="checkbox"/> |
| 6) Letter of intent from proposed guarantor | <input type="checkbox"/> |
| 7) CIDB registration | <input type="checkbox"/> |
| 8) Joint Venture agreement between the participation partner and the main contractor and CV's (If Applicable) | <input type="checkbox"/> |
| 9) Information in respect of Sub-contractors | <input type="checkbox"/> |
| 10) Information in respect of Specialist contractors | <input type="checkbox"/> |
| 11) Information in respect of Product/Material Suppliers | <input type="checkbox"/> |
| 12) Information in respect of Local Sub-contractors | <input type="checkbox"/> |
| 13) Complete and Priced Bill of Quantities: Main | <input type="checkbox"/> |
| 14) Complete and Priced Bill of Quantities: Electrical Installation | <input type="checkbox"/> |
| 15) Complete and Priced Bill of Quantities: Airconditioning and Ventilation | <input type="checkbox"/> |

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- | | |
|--------------------------------------------------------------------------|--------------------------|
| | _____ |
| 16) Complete and Priced Bill of Quantities: Fire Protection | <input type="checkbox"/> |
| 17) Complete and Priced Bill of Quantities: Lift Installation | <input type="checkbox"/> |
| 18) Final Summary and Sectional Summaries | <input type="checkbox"/> |
| 19) Health and Safety plan | <input type="checkbox"/> |
| 20) Construction Strategy and <i>Detailed Execution Programme</i> | <input type="checkbox"/> |
| 21) Proof of CSD Registration | <input type="checkbox"/> |
| 22) Pricing Instruction | <input type="checkbox"/> |
| 23) Letter of Good Standing | <input type="checkbox"/> |
| 24) List of Equipment/Tools | <input type="checkbox"/> |

NAME OF TENDERER

SIGNATURE OF TENDERER

DATE

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SBD 1: TAX CLEARANCE CERTIFICATE

A VALID ORIGINAL TAX CLEARANCE CERTIFICATE OR COPY THEREOF, OBTAINED FROM SARS TO BE SUBMITTED WITH BID DOCUMENTS.

Copies of the TCC 001 "Application for a Tax Clearance Certificate" form are available from any SARS branch office nationally or on the website www.sars.gov.za.

Applications for the Tax Clearance Certificates may also be made via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website www.sars.gov.za.

Note:

1. Failure to affix such documentation as prescribed to this page shall result in this bid not being further considered for the award of the contract, by the Bid Evaluation Committee.

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SBD 4: DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state¹.

2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.

- 3 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

3.1 Full Name of Owner of the Bidding Entity:

3.2 Identity Number if applicable:

3.3 Position occupied in the Company (director, trustee, shareholder²):

3.4 Company Registration Number:

3.5 Tax Reference Number:.....

3.6 VAT Registration Number:

¹MSCM Regulations: "in the service of the state" means to be –

(a) a member of –

- (i) any municipal council;
- (ii) any provincial legislature; or
- (iii) the national Assembly or the national Council of provinces;

(b) a member of the board of directors of any municipal entity;

(c) an official of any municipality or municipal entity;

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- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or a provincial legislature.

² Shareholder” means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.

3.8 Are you presently in the service of the state?

(Tick applicable box)

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>

3.8.1 If yes, furnish particulars.

.....

3.9 Have you been in the service of the state for the past twelve months?

(Tick applicable box)

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>

3.9.1 If yes, furnish particulars.....

.....

3.10 Do you have any relationship (close family member, partner or associate) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid?

(Tick applicable box)

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>

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3.10.1 If yes, furnish particulars.

.....
.....

3.11 Are you aware of any relationship (close family member, partner or associate) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid?

(Tick applicable box)

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>

3.11.1 If yes, furnish particulars

.....
.....

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?

(Tick applicable box)

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>

3.12.1 If yes, furnish particulars.

.....
.....

3.13 Are any spouse, child or parent of the company's directors trustees, managers, principle shareholders or stakeholders

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in service of the state?

(Tick applicable box)

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>

3.13.1 If yes, furnish particulars.

.....

.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract.

(Tick applicable box)

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>

3.14.1 If yes, furnish particulars:

.....

.....

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	State Employee Number

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CERTIFICATION

I, THE UNDERSIGNED (NAME)

.....

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT.

I ACCEPT THAT THE STATE AND/OR THE NFVF MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....

Signature

.....

Date

.....

Capacity

.....

Name of Bidding Entity

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SBD 8: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - a. abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
 - b. been convicted for fraud or corruption during the past five years;
 - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - d. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's database as a company or person prohibited from doing business with the public sector? (Companies or persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		

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4.2	<p>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?</p> <p>(To access this Register enter the National Treasury's website, www.treasury.gov.za, click on the icon "Register for Tender Defaulters" or submit your written request for a hard copy of the Register to facsimile number (012) 3265445).</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		
4.3	<p>Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	<p>Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	<p>Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

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4.7.1	If so, furnish particulars:
-------	-----------------------------

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

..... CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....

Signature

.....

Date

.....

Position

.....

Name of Bidder

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SBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Form "2.2.6" must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4 This Form "2.2.6" serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (Form "2.2.6") must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

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CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

TENDER FOR THE APPOINTMENT OF A CONTRACTOR TO CARRY OUT THE PHASE 2 REFURBISHMENT OF THE EASTERN CAPE FILM HUB

(Bid Number and Description)

in response to the invitation for the bid made by:

NATIONAL FILM AND VIDEO FOUNDATION (NFVF)

(Name of Department / Departmental Entity)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of:

(Name of Bidder)

That:

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;

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4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) Has been requested to submit a bid in response to this bid invitation;
 - (b) Could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) Provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. 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 consortium³ will not be construed as collusive bidding.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. 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.

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10. 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.

.....
Signature	Date
.....
Position	Name of Bidder

SBD 6.1: COMPLIANCE TO PREFERENTIAL PROCUREMENT REGULATIONS 2011

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-

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BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2011 AS AMENDED IN 2017.

1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to all bids:
- **the 80/20 system for requirements with a Rand value of up to R50 000 000 (Fifty Million Rand) (all applicable taxes included); and**
 - the 90/10 system for requirements with a Rand value above R50 000 000 (Fifty Million Rand) (all applicable taxes included).
- 1.2 The value of this bid is estimated not to exceed R50 000 000 (all applicable taxes included) and therefore the **80:20** system shall be applicable.
- 1.3 Preference points for this bid shall be awarded for:
- (a) Price; and
 - (b) B-BBEE Status Level of Contribution.
- 1.3.1 The maximum points for this bid are allocated as follows:

	POINTS
	80
1.3.1.1 PRICE
	20
1.3.1.2 B-BBEE STATUS LEVEL OF CONTRIBUTION
	100
Total points for Price and B-BBEE must not exceed	100

- 1.4 Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA) or an Accounting Officer as contemplated in the Close Corporation Act (CCA) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- 1.5 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

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2. DEFINITIONS

- 2.1 **"all applicable taxes"** includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- 2.2 **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- 2.3 **"B-BBEE status level of contributor"** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 2.4 **"bid"** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- 2.5 **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- 2.6 **"comparative price"** means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;
- 2.7 **"consortium or joint venture"** means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract;
- 2.8 **"contract"** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.9 **"EME"** means any enterprise with an annual total revenue of R10 million or less .
- 2.10 **"Firm price"** means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 2.11 **"functionality"** means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- 2.12 **"non-firm prices"** means all prices other than "firm" prices;
- 2.13 **"person"** includes a juristic person;
- 2.14 **"rand value"** means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;

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- 2.15 **"sub-contract"** means the primary contractor's assigning, leasing, making out work to, or employing, another person to support such primary contractor in the execution of part of a project in terms of the contract;
- 2.16 **"total revenue"** bears the same meaning assigned to this expression in the Codes of GoodPractice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act and promulgated in the *Government Gazette* on 9 February 2007;
- 2.17 **"trust"** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- 2.18 **"trustee"** means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 The bidder obtaining the highest number of total points may be awarded the contract.
- 3.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts;.
- 3.3 Points scored must be rounded off to the nearest 2 decimal places.
- 3.4 In the event that two or more bids have scored equal total points, the successful bid must be the one scoring the highest number of preference points for B-BBEE.
- 3.5 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid must be the one scoring the highest score for functionality.
- 3.6 Should two or more bids be equal in all respects, the award shall be decided by the drawing of lots.

4. POINTS AWARDED FOR PRICE

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

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

80/20 or 90/10

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$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

- P_s = Points scored for comparative price of bid under consideration
 P_t = Comparative price of bid under consideration
 P_{\min} = Comparative price of lowest acceptable bid

5. Points awarded for B-BBEE Status Level of Contribution

- 5.1 In terms of Regulation 5 (2) and 6 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	8	16
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

- 5.2 Bidders who qualify as EMEs in terms of the B-BBEE Act must submit a certificate issued by an Accounting Officer as contemplated in the CCA or a Verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for IRBA's approval for the purpose of conducting verification and issuing EMEs with B-BBEE Status Level Certificates.
- 5.3 **Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.**
- 5.4 A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.
- 5.5 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-

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BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.

- 5.6 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
- 5.7 A person will not be awarded points for B-BBEE status level if it is indicated in the bid documents that such a bidder intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.
- 5.8 A person awarded a 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 B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.

6. BID DECLARATION

- 6.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

7. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.3.1.2 AND 5.1

- 7.1 B-BBEE Status Level of Contribution:..... = (max. of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA or an Accounting Officer as contemplated in the CCA).

8 SUB-CONTRACTING

- 8.1 Will any portion of the contract be sub-contracted? YES / NO
(delete which is not applicable)

- 8.1.1 If yes, indicate:

- (i) What percentage of the contract will be subcontracted?

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.....%

(ii) The name of the sub-contractor?

.....

(iii) The B-BBEE status level of the sub-contractor?

.....

(iv) whether the sub-contractor is an EME? YES / NO
(delete which is not applicable)

9 DECLARATION WITH REGARD TO BIDDING ENTITY

9.1 Name of bidding entity:

9.2 VAT registration number:

9.3 Registration number of bidding entity:

9.4 TYPE OF ENTITY

[TICK APPLICABLE BOX]

- Partnership/Joint Venture / Consortium
- One person business/sole proprietor
- Close corporation
- Company

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- Trust
- Other (specify)

9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

9.6 CLASSIFICATION

[TICK APPLICABLE BOX]

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

9.7 MUNICIPAL INFORMATION

Municipality where business is situated

Consumer Account Number

Stand Number

9.8 TOTAL NUMBER OF YEARS THE FIRM HAS BEEN IN BUSINESS AND REGISTRATION DETAILS?

Date of Registration _____;

Date that commenced business, if different to date of registration _____.

9.9 I/we, the undersigned, who is / are duly authorised to do so on behalf of the bidder, certify that the points claimed, based on the B-BBEE status level of contribution indicated in paragraph 7 of the foregoing certificate, qualifies the bidder for the preference(s) shown and I / we 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.

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- (iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 7, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- (iv) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
- (a) disqualify the person from the bidding 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;

restrict the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, 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
 - (d) forward the matter for criminal prosecution

SIGNATURE(S) OF BIDDER(S)

DATE

WITNESSES

1.

2.

ADDRESS

COMPULSORY ENTERPRISE QUESTIONNAIRE

Failure to complete this form in full and signed by the duly authorized person, shall render the tender non-responsive and will be removed from any and all further contention.

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The following particulars must be furnished. In the case of a joint venture, **separate** enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: Company / CK Registration number, if any:

Section 3: VAT registration number, if any:

Section 4: Income Tax Reference Number, if any:

Section 5: 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 6: Record of service for 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 serving or has served within the last 12 months as any of the following:

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> a member of any municipal council
<input type="checkbox"/> a member of any provincial legislature
<input type="checkbox"/> a member of the National Assembly or the National Council of Province
<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 | <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 an accounting authority of any national or provincial public entity
<input type="checkbox"/> an employee of Parliament or a provincial legislature |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

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*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 serving or has served within the last 12 months as any of the following:

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> a member of any municipal council
<input type="checkbox"/> a member of any provincial legislature
<input type="checkbox"/> a member of the National Assembly or the National Council of Province
<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 | <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 an accounting authority of any national or provincial public 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:

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;

- ii) confirms that 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;

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- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I / we are not associated, linked or involved with any other tendering 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;
- v) 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

.....



national film and video foundation
SOUTH AFRICA
an agency of the Department of Sport, Arts and Culture

NOTICE TO TENDERERS

The National Film and Video Foundation invites suitably qualified Building Contractors to tender for the:

THE APPOINTMENT OF A CONTRACTOR TO CARRY OUT THE PHASE 2 REFURBISHMENT OF THE EASTERN CAPE FILM HUB ON BEHALF OF THE NATIONAL FILM AND VIDEO FOUNDATION (NFVF)

AT

33 CHURCH STREET, QUIGNEY, EAST LONDON

The National Film and Video Foundation (NFVF) invites tenders for the Contractor to carry out the phase 2 refurbishment of Eastern Cape Film Hub. The tender will be evaluated in terms of the **80:20 preferential points system** in accordance with the Preferential Procurement Policy Framework Act No. 5 of 2000 (as amended in 2017) and also the PPPFA Regulations that became effective on the 7th December 2011.

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CIDB Grading:

It is estimated that bidders should have a CIDB contractor grading of **4GB** or **3GB PE**.

Pre-Qualification Criteria- PPPFA

The following pre- qualification criteria will apply:

Bidders must have B-BBEE Level contributor 1, 2, or 3 ONLY

Tender Documentation:

The tender document is downloadable from the NFVF` s website: www.nfvf.co.za from the **29th November 2021, from 9h00.**

Supply Chain Management and Technical enquiries relating to the issuing of these documents may be addressed to nkinamab@nfvf.co.za or jabulanis@nfvf.co.za

No verbal, written or telephonic correspondence with any other person or party, including the Project Manager and Professional Team members is allowed during the tender process, unless requested and authorised by the NFVF.

Compulsory Information Session:

A compulsory Clarification Meeting with representatives of the Employer will take place at the Site (Eastern Cape Film Hub at 33 Church Street, Quigney, East London) on the **8th of December 2021 at 11:00 am to 12:00 pm.**

Closing of Tender:

The tender will close on the 10th of January 2022 at 11:00 am. Submissions must be emailed to nfvftenders@nfvf.co.za and nkinamab@nfvf.co.za before the closing time and date.

Submission of Tenders:

Telegraphic, telephonic, telex, facsimile, printed submission and late tenders will not be accepted.

Tenders may only be submitted on the tender documentation downloaded. Tenderers must ensure that all documents are fully completed and included in the various sections.

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Tender Documents:

The tenderer is required to submit with the tender all documents indicated as returnable including any other documents refer to in any section of the complete tender document set, and specifically documents refer to in the Tender Evaluation section.

Completion of Tender Documents:

- All documents to be completed in handwriting with black ink.
- No alternative tenders will be accepted.

Form of Contract:

The form of contract as applied on the Main Bill of Quantities and Contract, which are the JBCC Contract with state clauses, will apply.

Guarantees / Warrantees:

All material or equipment installed will carry at least a 1 year guarantee effective from the date of Works Completion Certificate issued by the Principal Agent.

Preference will be considered for the use of material or equipment with a longer warranty /guarantee period.

Shelf-Stock:

All material and equipment used and installed may not be from x-stock (shelf-stock) items held in stock by the contractor prior to the advertising date of this tender.

Covid 19 Protocols:

The Contractor and any Sub-Contractors must always ensure that, when entering the building or delivering material or items to the building or attending meetings or conducting inspections at the building:

- All employees, temporary, permanent, day workers are in possession of a Covid 19 vaccination passport obtained from the Department of Health as proof of having received the vaccination.
- This applies to Main Contractor and any and all Suppliers, Sub-Contractors, Specialists, Visitors, etc.

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- Applicable registers are always maintained and completed correctly.

Health and Safety:

The Contractor is responsible for all Health and Safety requirements as prescribed by the applicable legislation in South Africa.

Preferential Procurement:

In terms of Preferential Procurement Policy Framework Act, 2000; Preferential Procurement Regulation, 2017 will the following apply to the Tender:

1. The preference point system applicable to the tender: 80/20
2. Pre-qualification criteria are applicable:
 - a. Tenderers having a stipulated minimum B-BBEE status level of contributor level 1 – 3 only.

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TENDER EVALUATION

The preference procedure for evaluation of responsive Tender offers shall be the **80/20** point preference system, being a maximum of 80 points for price and a maximum of 20 points for B-BBEE Status level of Contributor substantiated by the Broad-Based Black Economic Empowerment Status Level Certificate to be submitted in accordance with Regulation 10 of the Preferential Procurement Regulations, 2011 (As Amended in 2017).

<p>EVALUATION OF TENDER OFFERS</p>	<p>The procedure for the evaluation of responsive tenders will be Method 4 (Functionality, Price and Preferences).</p> <p>The evaluation of the tender shall be conducted in Six (6) Stages:</p> <p>Pre-qualification criteria</p> <ul style="list-style-type: none">✓ Stage 1: <i>Preferential Procurement Pre-qualification</i>✓ Stage 2: <i>Administrative / Statutory Compliance / Responsiveness Assessment</i>✓ Stage 3: <i>Functionality / Quality Evaluation (threshold)</i>✓ Stage 4: <i>Financial Offer Evaluation (Formula)</i>✓ Stage 5: <i>B-BBEE Rating status Evaluation (80:20)</i>✓ Stage 6: <i>Add the B-BBEE Rating Status points & Financial Points to get the final points for award</i> <p>Stage 1: Preferential Procurement Pre-Qualification</p> <p>Pre-qualification criteria:</p> <ul style="list-style-type: none">➤ <i>Tenderers having a stipulated minimum B-BBEE status level of contributor level 1 – 3 Only</i> <p>Only Tenders complying with the pre-qualifications will be considered for the remaining stages of evaluation.</p> <p>Stage 2: Administrative / Statutory Compliance / Responsiveness Assessment</p>
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- ✓ **Submission of Valid Returnable Documents**
 - All documents referred to as Returnable
 - Certified Copy of the B-BBEE Rating Certificate
 - Tax Clearance Certificate or SARS Tax Pin
 - Letter of Good Standing
 - CIDB registration certificate
 - CSD Registration
- ✓ **Administrative issues**
 - No Use of Correction Fluid in the Tender Document
 - Unbundling of the originally issued Tender Document
 - No Retyping of the Tender Document or sections thereof
- ✓ **Completeness of the Returnable Schedules and Documents**
 - All required Tender documents completed and submitted
 - CIPC Company Registration Documents
 - Certified Copy of the Identity Document of the Company Principals
- ✓ **Signing of the All Returnable Schedules such as:**
 - Authority to Submit a Tender Offer;
 - Schedule of Work carried out by the Tenderer;
 - Proposed Key Personnel (including CV of Project Leader);
 - Compulsory Enterprise Questionnaire
 - Declaration of Supplier's past SCM practices (SBD 8);
 - Certificate of Independent Tender Determination (SBD 9);
 - Form of Offer and Acceptance (with amount in numbers and in words) signed and amount inserted in and in words

Stage 3: Functionality / Quality Evaluation

- ✓ The evaluation for functionality / quality will only be based on the information submitted by the tenderers. Please note that no preferences may be granted to incomplete claims for preferences.
- ✓ Score quality / functionality, rejecting all tender offers that fail to score the minimum number of points for quality / functionality stated in the Tender Data (If Any). The minimum functionality threshold for functionality evaluation is 70 points.

Values:

0 = non-Compliant, 1=Poor, 2=Fair, 3=Average, 4=Good and 5=Excellent

Functionality / Quality Criteria	Values						W	Total Points
	0	1	2	3	4	5		
✓ Experience of the Tendering Entity Work of a similar value carried out by the tendering entity on Practical completion within the past 10 years <ul style="list-style-type: none"> ➤ 5 x Practical Completion Letters from Previous / Current Clients (10 points) ➤ 4 x Practical Completion Letters from Previous / Current Clients (8 points) ➤ 3 x Practical Completion Letters from Previous / Current Clients (6 points) ➤ 2 x Practical Completion Letters from Previous / Current Clients (4 points) 							10	

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	<ul style="list-style-type: none"> ➤ 1 x Practical Completion Letter from Previous / Current Client (2 points) ➤ No Practical Completion Letters (Zero Points) <p>COMPLIANCE NOTE: Tenderer must ensure that the following information is provided for each Project for which Practical Completion Certificates (PCC) are submitted:</p> <ul style="list-style-type: none"> • Contact details of Principal Agent or Project Manager issuing the PCC. • Contractor’s Construction Manager on Project • Value of the Project • Original Start and End Date • Final Start and End Date • Reason for Variance if any <p><i>Any Submitted PCC without this supporting information <u>will not</u> be regarded for any points.</i></p>								
	<p>✓ Reference Letters issued by the Previous / Current Clients of the tendering entity</p> <ul style="list-style-type: none"> ➤ 5 x Reference Letters from Previous / Current Clients (10 points) ➤ 4 x Reference Letters from Previous / Current Clients (8 points) ➤ 3 x Reference Letters from Previous / Current Clients (6 points) ➤ 2 x Reference Letters from Previous / Current Clients (4 points) ➤ 1 x Reference Letter from Previous / Current Client (2 points) ➤ No Reference Letters (Zero Points) <p>COMPLIANCE NOTE: Tenderer must ensure that the following information is provided for each Project for which Reference Letters are submitted:</p> <ul style="list-style-type: none"> • Contact details of Client’s Project Manager. • Contractor’s Construction Manager on Project • Value of the Project • Original Start and End Date • Final Start and End Date • Reason for Variance if any <p><i>Any Submitted Reference Letter without this supporting information <u>will not</u> be regarded for any points.</i></p>							10	
	<p>✓ Expertise of the Key Personnel of the Tendering Entity</p> <ul style="list-style-type: none"> ✓ Experience of the Construction Manager – Number of years on similar size of projects within the Tendering Entity: <ul style="list-style-type: none"> • Above 7 Years (10 Points) • Above 5 to 7 Years (8 Points) • Above 3 to 5 Years (6 Points) • Above 2 to 3 Years (4 Points) • 1 to 2 Year (2 Point) • Zero Number of Years (Zero Points) 							10	

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	<p>✓ Experience of the Construction Manager – Value of projects of the Tender, handled by the Construction Manager within the Tendering Entity:</p> <ul style="list-style-type: none"> • Above R7 million (10 Points) • Above R4 million to R7 million (8 Points) • Above R2 million to R4 million (6 Points) • Above R1.5million to R2 million (4 Points) • R1million to R1.5 million (2 Point) • Zero Number of Years (Zero Points) 							10	
	<p>✓ Capacity of the Tendering Entity Plant and Equipment (Proof of ownership to be submitted)</p> <ul style="list-style-type: none"> • Owns 100% of Listed Equipment (5 points) • Owns 50% of Listed Equipment (3 points) • Owns 25% of Listed Equipment (2 points) • Does not have any equipment (0 points) 							5	
	<p>✓ Specialist / Subcontractor / Product Information and Compliance by the Tendering Entity</p> <ul style="list-style-type: none"> ○ Specialist Contractor Information ○ Sub-Contractor Information ○ Electrical Contractor ○ Mechanical Contractor ○ Fire Contractor ○ Lift Contractor ○ Product / Material Suppliers <p><i>[One point for each Detailed, Completed and Signed Information provided]</i></p> <p><i>[One point for each Item if a Local Contractor is Utilised]</i></p>							14	
	<p>✓ Health and Safety Plan</p> <ul style="list-style-type: none"> ○ Detail / Professional H&S Plan provided. [3 Points] ○ CV and Profile of H&S Officer (SACPCMP Registration must be included) [2 Points] ○ Samples of H&S Documents [1 Point] <p>Refer to the Health and Safety Plan Section</p>							6	
	<p>✓ Quality Control</p> <ul style="list-style-type: none"> ○ Quality Control practices and procedures must include: 							10	

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	<ul style="list-style-type: none"> ▪ Quality Management System in Place (1 Point) ▪ Detailed Quality Control Plan (4 Point) ▪ Communication channels defined (1 Point) ▪ Document management systems (1 Point) ▪ Human resources management (1 Point) ▪ Quality Health and safety plan (1 Point) ▪ Environmental management plan (1 Point) <p>○ No Quality Control practices and procedures provided (0 points)</p>							
✓	<p>Project Plan</p> <p>➤ Used the provided Project Plan minimum information required and submitted a detailed program reflecting all activities per the work areas and trades.</p> <p style="padding-left: 40px;">○ [3 Points]</p> <p>➤ Provided Project Plan which include the following:</p> <ul style="list-style-type: none"> ○ Programmed all Areas and defined Tasks with detail description for each Area ○ Defined the task to be executed on Site or Off Site ○ Provided a Duration for each Task ○ Provided a Start and End Date ○ Indicated dependencies between tasks <p>[4 Points for each item completed in full] <i>(Maximum 20 Points)</i></p> <p>➤ Provided a Methodology statement on how they will ensure delivery of the tasks in the provided program be monitored, executed and delivered on time, quality and budget.</p> <p>[2 points]</p> <p>➤ No Project Plan with tasks = 0 point</p>						25	
	Total Functionality / Quality						100	
<p>The minimum threshold for the functionality evaluation is 70%. The Tenderers that do not meet this minimum threshold will not proceed to the next stage of evaluation of the tender.</p>								

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Stage 4: Financial Offer Evaluation

The process for the evaluation of tender offers will be as follows:

- ✓ The Professional Engineers and Quantity Surveyor will review the detailed Prices Bill of Quantities including all supporting documents with regards to the material, products, sub-contractors etc and submit a compliance review confirming the reasonability and market related rates tendered.
- ✓ Score tender evaluation points for financial offer;
- ✓ The Preference Point System assigns a score to each tenderer on tender price, using the following formula:

The Formula of scoring the tender Price for Tenders below R50, 000,000 (80:20)

For this tender the **80:20** preference points system will be used.

$$Pt = 80 \{1 - \frac{(P - Pmin)}{Pmin}\}$$

Pmin

Where

Pt = Preference points for price of tender under consideration;

P = Rand value of tender under consideration; and

Pmin = Rand value of the lowest acceptable tender.

Stage 5: Evaluation of the B-BBEE Status Rating

- ✓ Score the tender evaluation points for B-BBEE Status level of Contributor in accordance with the rating reflected in the submitted B-BBEE Rating Certificate.

B-BBEE Status Level of Contributor	Number of Points (90/10)	Number of Points (80/20)
1	10	20
2	9	18
3	8	16
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2

TENDER NUMBER: RFT 05 2021-2022

Non-Compliant Contributor	0	0
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Stage 6: Add the B-BBEE Rating Status points and Financial Points to get the final points for award

- ✓ Add the total tender evaluation points for Price and B-BBEE Status;
- ✓ Rank tender offers from the highest number of tender evaluation points to the lowest; and

Recommend the tenderer with the highest number of tender evaluation points for the award of the contract.

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CERTIFICATE OF SITE INSPECTION

NAME OF SERVICE : **THE APPOINTMENT OF A CONTRACTOR TO CARRY OUT THE PHASE 2 REFURBISHMENT OF THE EASTERN CAPE FILM HUB ON BEHALF OF THE NATIONAL FILM AND VIDEO FOUNDATION (NFVF) AT 33 CHURCH STREET, QUIGNEY, EAST LONDON**

DATE AND TIME OF INSPECTION : **8th DECEMBER 2021 AT 11H00 AM TO 12:00 PM**

ASSEMBLY POINT : **MAIN ENTRANCE TO 33 CHURCH STREET, QUIGNEY, EAST LONDON**

I _____ visited the site for the above service on the stipulated date.

I studied the site conditions as well as the tender documents in sufficient detail to be aware of all aspects that could influence either the cost or the construction of this service.

I certify that I am satisfied with the description of the work given by the Employer or his Principal Agent during the site inspection and that I realise the full extent of all work that must be carried out to complete the service successfully.

NAME OF TENDERER

SIGNATURE OF TENDERER

DATE

SIGNATURE OF PRINCIPAL AGENT

DATE

TENDER NUMBER: RFT 05 2021-2022



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LETTER OF INTENT FROM ACCREDITED GUARANTOR

CONTRACTOR TO ADD ORIGINAL LETTER TO THIS PAGE

I hereby acknowledge that the required document(s) is attached.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____

TENDER NUMBER: RFT 05 2021-2022



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LETTER OF GOOD STANDING

CONTRACTOR TO ADD CERTIFIED ORIGINAL LETTER TO THIS PAGE

I hereby acknowledge that the required document(s) is attached.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____

TENDER NUMBER: RFT 05 2021-2022



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CIDB REQUIREMENTS & CERTIFICATES

Only those Tenderers who are registered with the CIDB in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a Level **4 GB or 3GB PE** class of construction work.

Joint Ventures are eligible to submit Tenders provided that:

- (1) each member of the joint venture is registered with the CIDB,
- (2) the lead partner rule will also apply, and
- (3) the lead partner's CIDB grading should be at least 3GB and other partner(s) CIDB grading should be not less than 3GB combined of which any partner may not be less than 1GB PE.

CONTRACTOR TO ADD CERTIFIED COPIE(S) TO THIS PAGE

I hereby acknowledge that the required document(s) is attached.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____

TENDER NUMBER: RFT 05 2021-2022



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CSD REGISTRATION

CONTRACTOR TO ATTACH PROOF OF CSD REGISTRATION TO THIS PAGE

I hereby acknowledge that the required document(s) is attached.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____

TENDER NUMBER: RFT 05 2021-2022



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JV AGREEMENT

CONTRACTOR TO ATTACH AGREEMENT(S) TO THIS PAGE

[NOTE THE REQUIREMENTS REGARDING CIDB GRADINGS IN THE EVENT OF JOINT VENTURES]

I hereby acknowledge that the required document(s) is attached.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____



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LIST OF SUB/SPECIALIST CONTRACTORS AND SUPPLIERS

For the purposes of the tender adjudication the Tenderer is to submit their list of Specialist Contractors, Sub-contractors and Material/Product Suppliers, they intend utilising for the execution of the works.

- Any variance from the submitted List will not be accepted should the Contract be awarded to the Tenderer, without approval of the Principal Agent.
- All Sub-Contractors, Specialist Contractors will be domestic Contractors.
- Tenderer to submit for each listed entry:
 - a detailed Profile and / or specification
 - SANS / CIDB / B-BBEE Certificates as applicable
 - Proof of Address
 - CV's of Allocated resources as applicable
 - List of Projects completed

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[Please make additional copies of this page if required]

WORK / PRODUCT	COMPANY	CIDB GRADING	AREA (*Local / Other)	ESTIMATED VALUE OF WORK	Profile, CIDB, B- BBEE, Proof of Address Included

** Local is defined as within the local authority boundaries where the project is executed.*

TENDER NUMBER: RFT 05 2021-2022

LIST OF SUB/SPECIALIST CONTRACTORS AND SUPPLIERS

I hereby acknowledge that the listing of sub-contractors/ specialist contractors / suppliers does not permit me from completing any other section or requirement of providing the same information and acknowledge that the information provided is correct and required document(s) is attached.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____



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OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

AGREEMENT IN TERMS OF

OCCUPATIONAL HEALTH AND SAFETY ACT 1993 – SECTION 37 (2)

SAFETY REGULATIONS

The above-mentioned regulations were promulgated in the Govt. Gazette on Friday, 18 July 2003 under the Occupational Health & Safety Act (85 of 1993) and are now in force.

The Employer and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act 1993 (Act 85 of 1993, hereinafter referred to as the Act), that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:

- ☐☐☐ The Contractor agree that a PROPOSED HEALTH AND SAFETY PLAN is attached to this tender submission which will form the basis of the final Health and Safety Plan to be implemented from the first day following the Site Handover date/Contract Start date.

- ☐☐☐ The Contractor agree that the required costing items have been completed as contained in the Bill of Quantities to this Tender Document and that the

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prices/rates given represents all aspects required to ensure full compliance to the above act.

- The Contractor undertakes to acquaint the appropriate officials and employees of the Contractor with all the relevant provisions of the Act and the regulations promulgated in terms of the Act, and the Employer's Health and Safety Specifications included in the contract documents.
- The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and Regulations and the Employer's Health and Safety Specifications included in the contract documents will be complied with in all respects.
- In relation to any work or activity performed by the Contractor, his workmen or any other person for whose acts or omissions the Contractor is responsible in terms of the Contract, the Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations and expressly absolves the Employer from itself being obliged to comply with any of the aforesaid duties, obligations and prohibitions.
- 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 set out more fully in paragraphs (a) and (b) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or to inspect any appropriate records held by the Contractor.
- The Contractor shall be obliged to report forthwith in writing to the Representative/Agent full details of any incidents, 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 Contract.
- Execute any Instruction issued by the representative/Agent with regards to Health and Safety compliance in terms of the Act.
- Forward "safety meeting" minutes to the representative/Agent.

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- ☐☐☐ Any acceptance, approval, check, certificate, consent, examination, inspection, instruction, notice, observation, proposal, request, test or similar act by either the Employer, any of his agents or the representative /agent including lack of disapproval shall not relieve the Contractor from any responsibility he has under the Act and the Construction Regulations, including responsibility for errors, omissions, discrepancies and non- compliance.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____



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PROPOSED HEALTH AND SAFETY PLAN

Content of the Health and Safety Plan should include the following as applicable to the project:

Contents:

- 1 - Contractors Health & Safety Policy/Statement
- 2 - Schedule of Appointed Responsible Persons
- 3 - Management & Supervision Organisational Chart
- 4 - Construction Risk Assessment
- 5 - Fall Protection Plan
- 6 - Hazardous Work/Activities - Method Statements
- 7 - Personal Protective Equipment Requirements
- 8 - Measures to Control the Condition and Use of Tools and Equipment
- 9 - Fire Prevention and Control Measures
- 10 - Use and Control of Hazardous Chemical Substances
- 11 - Environmental Protection Measures
- 12 - First Aid Arrangements
- 13 - Construction Site Signage

Appendices:

- A - Client H&S Specification
- B - Principle Contractor Appointment
- C - Appointment Letters
- D - PPE Issue Registers
- E - Equipment Inspection and Repair Registers
 - Ladders
 - Scaffolding
 - Portable Electrical Tools

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- Safety Equipment
- Lifting Tackle
- Lifting Machines

F - Material Safety Data Sheets

H – Safe Disposal Certificates

CONTRACTOR TO ADD PROPOSED PLAN TO THIS PAGE

I hereby acknowledge that the required document is attached

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____

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PROGRAM AND PROPOSED CONSTRUCTION STRATEGY

CONTRACTOR TO ADD DETAILED PROPOSED PLAN TO THIS PAGE

Minimum Sample Program Information to be provided:

NO	AREA	TASK	TRADE	DESCRIPTION	ON SITE (Y/N)	Duration	START	END	DEPENDENT ON TASK NO
1									
2									
3									
4									

Areas of Work will be defined during the Compulsory Tender Clarification Meeting.

I hereby acknowledge that the required detailed Program is attached.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____

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STANDARD PREAMBLES TO ALL TRADES

The Contractor agrees to accept and comply with the Standard Preambles to All trades as provided in the STANDARD PREAMBLES TO ALL TRADES document.

The Contractor accept and acknowledge that the STANDARD PREAMBLES TO ALL TRADES forms an integral part of the Bill of Quantities of this Tender and Contract.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____

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PRICED BILLS OF QUANTITIES, SECTION AND FINAL SUMMARY

DOCUMENTS	COMPLETED (YES / NO)	ATTACHED (YES / NO)
Main Bills of Quantities		
Bills of Quantities: Electrical Installation		
Bills of Quantities: Air Conditioning and Ventilation		
Bills of Quantities: Lift Installation		
Bills of Quantities: Fire Protection		

Reference to the Bill of Quantities means all forms and requested documentation within relation to that Bill of Quantity.

I hereby acknowledge that the required document is attached

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) _____ 2) _____

TENDER NUMBER: RFT 05 2021-2022



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CONTRACT DATA

I hereby acknowledge that the required document is attached

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) : _____

TENDER NUMBER: RFT 05 2021-2022



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PRICING INSTRUCTIONS

- 1.1. The method of measurement published by the South African Bureau of Standards in Clause 8 of the Standardised Specifications for Civil Engineering Construction is applicable, subject to the variations and amendments contained in the section "Applicable SABS 1200 standardised specifications".
- 1.2. Descriptions in the Schedule/Bill of Quantities are abbreviated and comply generally with those in the Standardised Specifications. Clause 8 of each Standardised Specification, read together with the relevant clauses of the Scope of Work, set out what ancillary or associated activities are included in the rates for the operations specified. Should any requirements of the measurement and payment clause of the applicable Standardised Specification, or the Scope of Work, conflict with the terms of the Schedule/Bill, the requirements of the Standardised or Scope of Work, as applicable, shall prevail.
- 1.3. The clauses in a specification in which further information regarding the schedule/bill item can be obtained appear under "Reference clause" in the Schedule. The reference clauses indicated are not necessarily the only sources of information in respect of schedule items. Further information and set specifications may be found elsewhere in the contract documents. Standardised Specifications are identified by the letter or letters which follow SABS in the SABS 1200 series of specifications, e.g. G for SABS 1200 G.

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- 1.4. Work reserved for Labour Intensive construction methods will be numbered with a prefix "LI" in the Price Schedule to distinguish them from the conventional construction works. Such work shall be constructed using local labour who are temporarily employed in terms of the project specification
- 1.5. Unless otherwise stated, items are measured nett in accordance with the drawings, and no allowance is made for waste. The Schedule has to be completed in black non-erasable ink and the tenderer is referred to the Tender Specifications in regard to the correction of errors.
- 1.6. The quantities set out in the Schedule/Bill of Quantities are the estimated quantities of the Contract Works, but the Contractor will be required to undertake whatever quantities may be directed by the Engineer from time to time. The Contract Price for the completed contract shall be computed from the actual quantities of work done, valued at the relevant unit rates and prices.
- 1.7. The prices and rates to be inserted in the Schedule/Bill of Quantities are to be the full inclusive prices for the work described under the several items. Such prices and rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based, as well as overhead charges and profit. Reasonable prices shall be inserted as these will be used as a basis for assessment of payment for additional work that may have to be carried out.
- 1.8. A price or rate is to be entered against each item in the Schedule/Bill of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the Schedule.
- 1.9. Except where rates only are required, the Tenderer shall insert all amounts to be included in his total tendered price in the "Amount" column and show the corresponding total tendered price.
- 1.10. All prices or rates inserted in the Bill of Quantities shall be EXCLUDING VAT. Provision has been made on the Summary Page, of the Bill of Quantities, for the addition of VAT.

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1.11. Arithmetical errors of responsive tenders will be corrected in the following manner:

- Where there is a discrepancy between an amount shown in figures, and the corresponding amount stated in words, **the amount stated in words shall take preference.**
- In the Bill of Quantities, if there is an error in the line-item total resulting from the product of the quantity and the unit rate, the **line-item total shall govern**, and the rate shall be corrected. Where there is a misplacement of the decimal point in the unit rate, the line-item total shall govern and the unit rate will be corrected.
- 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 in the Bill of Quantities) to achieve the tendered total of the prices.

Should a tenderer be unwilling to make the corrections ordered by the Engineer, the tender may be disqualified.

1.11.1.1. The units of measurement described in the Schedule/Bill of Quantities are metric units. Abbreviations used in the Schedule/Bill of Quantities are as follows:

mm	=	millimetre	h	=	hour
m	=	metre	kg	=	kilogram
km	=	kilometre	t	=	ton (1 000 kg)
m ²	=	square metre	No.	=	number
m ² .pass	=	square metre-pass	sum	=	lump sum
ha	=	hectare	MN	=	MegaNewton
m ³	=	cubic metre	MN.m	=	MegaNewton metre
m ³ .km	=	cubic metre-kilometre	P C sum	=	PrimeCost sum
l	=	litre	Prov sum	=	Provisional sum
kl	=	kilolitre	%	=	per cent
MPa	=	MegaPascal	kW	=	kilowatt

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1.11.1.2. The quantities set out in the Price Schedule are the estimated quantities of the Works, but the Contractor will be required to undertake whatever quantities as may be directed by the Engineer from time to time. The Contract Price for the completed contract shall be computed from the actual quantities of work done, valued at the relevant unit rates and prices.

1.11.1.3. A price or rate is to be entered against each item in the Price Schedule, whether the quantities are stated or not. An item against which no price is entered or where a word or phrase such as "included" or "provided elsewhere" will be accepted as a rate of nil (R0,00) having been entered against such items and covered by the other prices or rates in the Schedule.

Any work executed to which such a pay item applies, shall be measured under the appropriate items in the Price Schedule and valued at a rate of nil (R0,00). The rate of nil shall be valid irrespective of any change in the quantities during the execution of the Contract.

Correction of Entries made by the Tenderer

Any entry made by the Tenderer in the Price Schedule, forms, etc, which the tenderer desires to change, **shall not be erased or painted out.** A line shall be drawn through the incorrect entry and the correct entry shall be written above in black ink and the **full signature** of the Tenderer shall be placed next to the correction.

Signature of person authorised to sign bid documents

Name in block letters

Designation

Date

TENDER NUMBER: RFT 05 2021-2022



national film and video foundation
SOUTH AFRICA
an agency of the Department of Sport, Arts and Culture

FORM OF TENDER - FOR USE WITH PRINCIPAL AGREEMENT

EMAILED TENDERS TO BE SUBMITTED ELECTRONICALLY BEFORE 11:00 ON THE SAID CLOSING DATE.

NAME OF PROJECT : THE APPOINTMENT OF A CONTRACTOR TO CARRY OUT THE PHASE 2 REFURBISHMENT OF THE EASTERN CAPE FILM HUB ON BEHALF OF THE NATIONAL FILM AND VIDEO FOUNDATION (NFVF) AT 33 CHURCH STREET, QUIGNEY, EAST LONDON

1. I/We the undersigned
(name of authorised signatory),

..... (Name
of Company(Tenderer))

hereby offer to the **National Film and Video Foundation**, an Agency of the Department of Arts and Culture of the Government of the Republic of South Africa, herein represented by the to execute and complete the above-mentioned Works in accordance with the Requirements set in this Tender Document, including the applicable Procurement Manual, Drawings, Specifications, Bills of Quantities and Principal Building Agreement to the entire

TENDER NUMBER: RFT 05 2021-2022

satisfaction of the NFVF and subject to the Conditions of Tender and to provide all the labour, materials, workmanship, machinery, plant and everything that is or may become necessary for the entire completion of the Works to the satisfaction of the NFVF for the **Tender sum [including all allowances in Bills of Quantities and VAT] of** R....., Tender sum in words:

Postal address of Tenderer:
 Code:
 Telephone No.: () Facsimile No.: ()
 E-mail:

2. I/We acknowledge that I/we am/are fully acquainted with the contents of the Conditions of Tender and that I/we accept the conditions in all respects.

2.1 I/We furthermore confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our Tender, that the amount(s) and rate(s) quoted cover all the work/item(s) specified in the Tender documents and that the amount(s) and rate(s) cover all my/our obligations under a resulting Agreement and that I/we accept that any errors regarding amount(s) and calculations will be at my/our own risk.

Thus done and signed at on

<i>Name of signatory</i>	<i>Capacity of authorised signatory</i>
<i>Witness</i>	<i>for and on behalf of the tenderer who by signature hereof warrants authorisation hereto</i>

TENDER NUMBER: RFT 05 2021-2022

1.0 CONDITIONS OF TENDER

1.1 PRINCIPAL AGREEMENT

- 1.1.1 The successful Tenderer will be appointed in terms of the JBCC Principal Building Agreement.
- 1.1.2 Additions and alterations to such Agreement are clearly detailed in the schedule of the Agreement
- 1.1.3 All pre-tender information is set out in the Schedule. Variables requiring selection by the Tenderer are to be clearly marked for later inclusion in the Schedule
- 1.1.4 Any conditions or qualifications that are appended by the Tenderer, which are in variance with the conditions in this or the tender enquiry document, may invalidate the submitted Tender
- 1.1.5 This Tender is to be submitted AS stated above before the tender closing date and time as stated
- 1.1.6 Tenders will NOT be opened in public directly after the stated closing time.
- 1.1.7 I/We agree that as soon as my/our Tender has been opened on the closing date, that my/our Tender together with these conditions shall be binding on me/us for 60 calendar days calculated from 11:00 on the closing date; that if the period so determined expires on a Saturday, Sunday or Public Holiday, the Tender shall remain valid and open for acceptance until the close of business on the following working day
- 1.1.8 I/We accept that this Tender is subject to the NFVF Procurement Policies in so far as it is not in conflict with these conditions.

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- 1.1.9 I/We understand that the NFVF does not bind himself/herself to accept the lowest or any Tender
- 1.1.10 I/We accept that my/our Tender and its acceptance by the NFVF shall constitute a binding Agreement between me/us and the Government of the Republic of South Africa
- 1.1.11 I/We agree that should it happen that I/we withdraw my/our Tender unilaterally after the closing date or should it happen that, after my/our Tender has been formally accepted, I/we either fail to provide security to the satisfaction of the NFVF or fail to submit insurances as required in the tender document or fail to sign an Agreement in terms of the accepted Tender after being requested to do so by the NFVF, the NFVF shall, without prejudice of any other rights he/she may have, be entitled to accept any less favourable Tender from those received with mine/ours or to call for fresh Tenders or otherwise arrange for the execution of the Works, then I/we shall pay on demand any additional expense incurred by the NFVF because he/she has had to adopt any of the said courses, as well as either the difference between my/our Tender and any less favourable Tender accepted by the NFVF or the difference between my/our Tender and the cost of execution of the Works by the NFVF as well as any other amounts which the NFVF has to pay to have the Works completed
- 1.1.12 I/We agree that compliance with the request for the submission of my/our priced bills of quantities will not involve the NFVF in any claim for compensation
- 1.1.13 I/We accept that the Tender sum shall be regarded as correct and that any errors which may have to be corrected or alterations to prices/rates which may be necessary, shall be made without altering the Tender sum
- 1.1.14 I/We hereby declare that all Information which is furnished as part of this Tender, is correct in all respects and I/we further confirm that, taking into account my/our present commitments, this service will be completed by me/us within the Construction

TENDER NUMBER: RFT 05 2021-2022

period stated in the Tender documents, should the Contract be awarded to me/us

1.1.15 I/We understand that the information furnished herein by me/us is of vital importance to the NFVF and that, should it appear after the acceptance of my/our Tender not to be correct the NFVF shall have the right to cancel the Agreement and have recourse as set out in the Preferential Procurement framework Act Regulations

1.1.16 I/We agree that, if my/our Tender is accepted, the acceptance thereof may be communicated to me/us by letter or order through electronic mail, the ordinary post or by telegraph and that the Domain Hosting, Post or Telegraph Office, as the case may be, shall be regarded as my/our agent and that delivery of such acceptance to the electronic Mail, Post or Telegraph Office shall be regarded as delivery to me/us

1.1.17 I/We accept that: -

1.1.17.1 Tenders must be submitted on the official forms and may not be qualified by my/our own specific conditions of Tender and that failure to comply with these requirements or, upon request, to withdraw specifically my/our own conditions of Tender where they are incorporated in the Tender may, if so decided, invalidate or prejudice the Tender;

1.1.17.2 Alternative offers may not be submitted by the Tenderers;

1.1.17.3 Any Tender which is not accompanied by the desired information, pamphlets, completed priced bills of quantities, summaries of priced bills of quantities, where applicable, etc. or which is not properly completed in ink and signed, will be disregarded; and

1.1.17.4 No telegraphic/telefax/facsimile/printed transmitted/delivered Tenders will be considered

TENDER NUMBER: RFT 05 2021-2022

1.1.18 I/We undertake to submit the tender document in full in clear readable electronic format (pdf) and acknowledge that all sections, forms and documents are completed and signed by an authorised person

1.1.19 I/We understand that all prices/rates quoted shall be in South African currency

1.1.20 I/We agree that the Client shall not be held responsible for any expenditure whatsoever that I/we have incurred in connection with the preparation and submission of this Tender

1.1.21 **Information supplied in the Tender Submission – All Forms:** Should this information be proven to be false, I/we shall be liable for the difference of price between my/our Tender and the lowest acceptable Tender which did not benefit or, alternatively, the NFVF may at his/her discretion consider cancellation of the Agreement, where applicable

NB: All Tender Documents, Schedules, Bill of Quantities and Forms must be fully completed

1.1.22 I/We acknowledge that, in line with the Preferential Procurement Framework Act, the NFVF may at his/her own discretion contact my bank for references

2.0 TENDERER'S SELECTION OF PRELIMINARIES AND SECURITY

(Fill in Yes, No, Nil, etc. as appropriate)

Selection			PBA	N/S	Minor	Addendums, N°/s,
Preliminaries	Payment	Alternative A		NIL	NIL	
		Alternative B		NIL		
Adjustment		Alternative A		NIL	NIL	
				NIL		
Security	Variable construction guarantee			NIL		
				NIL	NIL	
					NIL	
			NIL	NIL	NIL	(Amount)

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Fixed construction guarantee Retention (Payment reduction) # Advance payment guarantee # Payment guarantee required		NIL	NIL	<i>(Amount)</i>
-----------------------------------------------------------------------------------------------------------------------------------------	--	-----	-----	-----------------

Thus done and signed at on

<i>Name of signatory</i>	<i>Capacity of authorised signatory</i>
<i>As Witness</i>	<i>for and on behalf of the tenderer who by signature hereof warrants authorisation hereto</i>

3.0 APPLICATION OF STATE CLAUSES

3.1 All State Clauses as contained in the specific JBCC contract will apply not this Tender.

I/WE THE UNDERSIGNED HEREBY ACCEPT THE INCLUSION/AMENDMENT TO THE JBCC PRINCIPAL BUILDING AGREEMENT AS LISTED ABOVE.

Thus done and signed at on

<i>Name of signatory</i>	<i>Capacity of authorised signatory</i>
<i>As Witness</i>	<i>for and on behalf of the tenderer who by signature hereof warrants authorisation hereto</i>

TENDER NUMBER: RFT 05 2021-2022



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SOUTH AFRICA

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LIST OF CONTRACTOR EQUIPMENT / TOOLS

For the purposes of the tender adjudication the Tenderer is to complete the following List of Equipment/Tools that may be used during the execution of the scope of work:

Machinery/ Equipment/Tool	Condition	Quantity
>4 Ton Vehicle for Delivery of Sections for Installation		
<3 Ton Vehicle for Delivery of Sections for Installation		
Electrical Power Drills		
Welding Machines		
Scaffolding, For internal use with full safety compliance and lockable wheels		
Safety Equipment for working at heights		
Carpentry Equipment		
Covid 19 Screening Equipment		
On-Site Health and Safety Medical Kit		

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I hereby acknowledge that the information is a true reflection of equipment / tools owned and available for utilisation on the project as and when required.

Tenderer: _____ Date: _____

Signature: _____ Name: _____

Witnesses: 1) : _____ 2) _____

Item No		Quantity	Amount
	<p><u>PRELIMINARIES</u></p> <p><u>MEANING OF TERMS "TENDER / TENDERER"</u></p> <p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p> <p><u>PRELIMINARIES</u></p> <p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item</p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p> <p><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>DEFINITIONS</u></p> <p>1 A1 DEFINITIONS AND INTERPRETATION</p> <p>Clause 1.0</p> <p>Clause 1.1 Definition of "Commencement Date" is added:</p> <p>"COMMENCEMENT DATE" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following:</p>		
	Carried to Collection	R	
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"CONSTRUCTION GUARANTEE" means a guarantee at call obtained by the **contractor** from an institution approved by the **employer** in terms of the **employer's** construction guarantee form as selected in the **schedule**

Clause 1.1 Definition of **"Construction Period"** is amended by replacing it with the following:

"CONSTRUCTION PERIOD" means the period commencing on the **commencement date** and ending on the date of **practical completion**

Clause 1.1 Definition of "Corrupt Practice" is added:

"CORRUPT PRACTICE" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution

Clause 1.1 Definition of **"Fraudulent Practise"** is added:

"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.

Clause 1.1 Definition of **"Interest"** is amended by replacing it with the following:

"INTEREST" means the interest rates applicable on 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).

Clause 1.1 Definition of **"Principal Agent"** is amended by replacing it with the following:

"PRINCIPAL AGENT" means the person or entity appointed by the **employer** and named in the **schedule**. In the event of a **principal agent** not being appointed, then all duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by a representative of the **employer** as named in the schedule

Clause 1.1 Definition of **"Security"** is amended by replacing it with the following:

"SECURITY" means the form of security provided by the **employer** or **contractor**, as stated in the **schedule**, from which the **contractor** or **employer** may recover expense or loss

Clause 1.6 is amended by replacing the works "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"

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Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed: _____ Value related: __ N/A __ Time related: __ N/A __

Item

OBJECTIVE AND PREPARATION

2 **A2 OFFER, ACCEPTANCE AND PERFORMANCE**

Clause 2.0

Fixed: _____ Value related: __ N/A __ Time related: __ N/A __

Item

3 **A3 DOCUMENTS**

Clause 3.0

Clause 3.2.1 is amended by replacing "14.1" with "14.0"

Clause 3.7 is amended by the addition of the following:

The **contractor** shall supply and keep a copy of the **JBCC** Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the **site**, to which the **employer, principal agent** and **agents** shall have access at all times

Clause 3.10 is amended by replacing the second reference to "**principal agent**" with the word "**employer**"

Fixed: _____ Value related: __ N/A __ Time related: __ N/A __

Item

4 **A4 DESIGN RESPONSIBILITY**

Clause 4.0

Clause 4.3 is amended by replacing it with the following:

No clause

Fixed: _____ Value related: __ N/A __ Time related: __ N/A __

Item

5 **A5 EMPLOYER'S AGENTS**

Clause 5.0

Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4 and 38.5.8

Fixed: _____ Value related: __ N/A __ Time related: __ N/A __

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6	A6 SITE REPRESENTATIVE	Clause 6.0	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
7	A7 COMPLIANCE WITH REGULATIONS	Clause 7.0	<p>Note: The provisions herein include <i>inter alia</i>, compliance with <u>all</u> the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor</p> <p>See also clause C10 and C11 of Section C - Specific Preliminaries</p>	Item
8	A8 WORKS RISK	Clause 8.0	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
9	A9 INDEMNITIES	Clause 9.0	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
10	A10 WORKS INSURANCES	Clause 10.0	Clause 10.0 is amended by the addition of the following clauses:	
	10.5 Damage to the Works		<p>(a) Without in 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</p>	
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- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and material paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) 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

10.6 Injury to Persons or loss of or damage to Properties

- (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 neglect 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 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 neglect 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 thereof 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**
- (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

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(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 to execute the **works**

10.7 High risk insurance

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 that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

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 holds 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

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, restore, replace and/or repair the **works**, at the **contractor's** own costs

10.7.2 Injury to persons or loss of or damage to property

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

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 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 whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. 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

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10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. 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 one indivisible whole

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

11 **A11 LIABILITY INSURANCES**

Clause 11.0

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

12 **A12 EFFECTING INSURANCES**

Clause 12.0

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

13 **A13.0 No clause**

N/A

14 **A14 SECURITY**

Clause 14.0

Clauses 14.1 - 14.8 are amended by replacing them with the following:

14.1 In respect of contracts with a **contract sum** up to R1 million, the **security** to be submitted by the **contractor** to the **employer** will be as a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT)

14.1.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.1.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the **contractor**

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14.2 In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **employer** within twenty-one (21) **calendar days** from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty-one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected.

14.3 Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.3.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the **contract value** (excluding VAT), and refund the balance to the **contractor**

14.3.3 Within twenty-one (21) **calendar days** of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the **contract value** (excluding VAT) and refund the balance to the **contractor**

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**

14.3.5 The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**

14.3.6 The parties expressly agree that neither the **employer** nor the **contractor** shall be entitled to cede the rights to the deposit to any third party

14.4 Where **security** as a variable **construction guarantee** of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.4.2 The variable **construction guarantee** shall reduce and expire in terms of the Variable **Construction Guarantee** form included in the invitation to tender

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14.4.3 The **employer** shall return the variable construction guarantee to the **contractor** within fourteen (14) **calendar days** of it expiring

14.4.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable **construction guarantee**

14.5 Where **security** as a fixed **construction guarantee** of five per cent (5%) of the **contract sum** (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.5.1 The **contractor** shall furnish a fixed construction guarantee to the **employer** equal in value to five per cent (5%) of the **contract sum** (excluding VAT)

14.5.2 The fixed **construction guarantee** shall come into force on the date of issue and shall expire on the date of **practical completion**

14.5.3 The **employer** shall return the fixed **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring

14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8 (A) and 34.8

14.5.5 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed **construction guarantee** or may recover from the payment reduction or may do both

14.6 Where **security** as a cash deposit of five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.6.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.6.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**

14.6.3 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

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14.7 Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B)

14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**

14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable

Fixed: _____ Value related: ___N/A___ Time related: ___N/A___

Item

EXECUTION

15 **A15 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No Clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

Clause 15.1 is amended by the addition of the following clause:

15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) **calendar days of commencement date**

Clause 15.2.1 is amended by replacing it with the following clause:

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16	<p>Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4</p> <p>Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___</p>	Item	
17	<p>A16 ACCESS TO THE WORKS</p> <p>Clause 16.0</p> <p>Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___</p>	Item	
18	<p>A17 CONTRACT INSTRUCTIONS</p> <p>Clause 17.0</p> <p>Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors"</p> <p>Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___</p>	Item	
19	<p>A18 SETTING OUT OF THE WORKS</p> <p>Clause 18.0</p> <p>Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___</p>	Item	
20	<p>A19 ASSIGNMENT</p> <p>Clause 19.0</p> <p>Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___</p>	Item	
21	<p>A20 NOMINATED SUB-CONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No Clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___</p>	Item	
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22 **A21 SELECTED SUBCONTRACTORS**
 Clause 21.0
 Clause 21 is amended by replacing it with:
 No Clause
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

23 **A22 EMPLOYER'S DIRECT CONTRACTORS**
 Clause 22.0
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

24 **A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS**
 Clause 23.0
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

COMPLETION

25 **A24 PRACTICAL COMPLETION**
 Clause 24.0
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

26 **A25 WORK'S COMPLETION**
 Clause 25.0
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

27 **A26 FINAL COMPLETION**
 Clause 26.0
 Clause 26.1.2 s amended by inserting "#" next 26.1.2
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

28 **A27 LATENT DEFECTS LIABILITY PERIOD**
 Clause 27.0
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

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29	<p>A28 SECTIONAL COMPLETION</p> <p>Clause 28.0</p> <p>Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___</p>	Item
30	<p>A29 REVISION OF DATE FOR PRACTICAL COMPLETION</p> <p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___</p>	Item
31	<p>A30 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___</p> <p><u>PAYMENT</u></p>	Item
32	<p>A31 INTERIM PAYMENT TO THE CONTRACTOR</p> <p>Clause 31.0</p> <p>Clause 31.1 is amended by changing 'every month' to 'twice a month' for issuing of payment certificates during the Contract.</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p>	Item
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31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Alternative B

31.8(B) Where **security** is a payment reduction in terms of 14.7 the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(B).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Clause 31.12 is amended by deleting the following:

Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

33 **A32 ADJUSTMENT TO THE CONTRACT VALUE**

Clause 32.0

Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:

"due to no fault of the **contractor**"

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

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34 **A33 RECOVERY OF EXPENSE AND LOSS**
 Clause 33.0
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

35 **A34 FINAL ACCOUNT AND FINAL PAYMENT**
 Clause 34.0
 Clause 34.1 is amended by removing "#" next to 34.1
 Clause 34.2 is amended by inserting "#" next to 34.2
 Clause 34.8 is amended by deleting the words "where **security** as a fixed **construction guarantee** in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"
 Clause 34.13 is amended by replacing "seven (7) **calendar days**" with "twenty-one (21) **calendar days**" and deleting the words "subject to the **employer** giving the **contractor** a tax invoice for the amount due"
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

36 **A35 PAYMENT TO OTHER PARTIES**
 Clause 35.0
 Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

CANCELLATION

A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT

Clause 36.0
 Clause 36.1 is amended by the addition of the following clauses:
 36.1.3 refuses or neglects to comply strictly with any of he conditions of contract
 36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa
 36.1.5 in the judgement of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract
 Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "**principal agent**" with "**employer**"
 Clause 36.0 is amended by the addition of the following clause:

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36.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

37 **A37 CANCELLATION BY EMPLOYER – LOSS AND DAMAGE**

Clause 37.0

Clause 37.0 is amended by the addition of the following clause:

Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"

37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

38 **A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT**

Clause 38.0

Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"

Clause 38.0 is amended by the addition of the following clause:

38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

Carried to Collection

R

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39 **A39 CANCELLATION - CESSATION OF THE WORKS**

Clause 39.0

Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one hundred and twenty (120) **working days** of completion of such a report"

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

40 **A40 DISPUTE SETTLEMENT**

Clause 40.0

Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"

Clause 40.6 is amended by removing the reference to:

No clause

Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:

Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the **mediator** and related costs

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

SUBSTITUTE PROVISIONS

41 **A41 STATE CLAUSES**

Clause 41.0

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

CONTRACT VARIABLES

THE SCHEDULE (DPW04EC)

42 **A42 PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the document Contract Data for variables pertaining to this contract

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

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SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

43 ***B1.1 Definitions and interpretation***

See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

B2.0 DOCUMENTS

44 ***B2.1 Checking of documents***

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

45 ***B2.2 Provisional bills of quantities***

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

46 ***B2.3 Availability of construction documentation***

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

47 ***B2.4 Interests of agents***

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

48 ***B2.5 Priced documents***

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

49 ***B2.6 Tender submission***

Clause 2.6 is amended by replacing "JBCC Form of Tender" with "5.8 Tender Sum Compilation"

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

B3.0 THE SITE

50 ***B3.1 Defined works area***

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

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Preliminaries

51	B3.2 Geotechnical investigation	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
52	B3.3 Inspection of the site	Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission. Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
53	B3.4 Existing premises occupied	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
54	B3.5 Previous work - dimensional accuracy	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
55	B3.6 Previous work - defects	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
56	B3.7 Services - known	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
57	B3.8 Services - unknown	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
58	B3.9 Protection of trees	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
59	B3.10 Articles of value	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
60	B3.11 Inspection of adjoining properties	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
	<u>B4.0 MANAGEMENT OF CONTRACT</u>		
61	B4.1 Management of the works	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
		Carried to Collection	R
	Bill No. 1 Preliminaries		

62	B4.2 Programme for the works	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
63	B4.3 Progress meetings	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
64	B4.4 Technical meetings	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
65	B4.5 Labour and plant records	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
66	B5.1 Samples of materials	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
67	B5.2 Workmanship samples	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
68	B5.3 Shop drawings	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
69	B5.4 Compliance with manufacturers instruction	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
70	B6.1 Deposits and fees	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
71	B6.2 Enclosure of the works	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
72	B6.3 Advertising	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item

Carried to Collection

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73 **B6.4 Plant, equipment, sheds and offices**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

74 **B6.5 Main notice board**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

75 **B6.6 Subcontractors' notice board**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

B7.0 TEMPORARY SERVICES

76 **B7.1 Location**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

77 **B7.2 Water**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

78 **B7.3 Electricity**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

79 **B7.4 Telecommunication facilities**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

80 **B7.5 Ablution facilities**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

B8.0 PRIME COST AMOUNTS

81 **B8.1 Responsibility for prime cost amounts**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

9.0 ATTENDANCE ON N/S SUBCONTRACTORS

82 **B9.1 General attendance**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

83 **B9.2 Special attendance**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

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84 **B9.3 Commissioning - fuel, water and electricity**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

B10. FINANCIAL ASPECTS

85 **B10.1 Statutory taxes, duties and levies**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

86 **B10.2 Payment for preliminaries**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

87 **B10.3 Adjustment of preliminaries**
Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) **working days** of taking possession of the **site**" with "in his priced **bills of quantities /lump sum document** submitted with his tender offer"
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

88 **B10.4 Payment certificate cash flow**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

B11. GENERAL

89 **B11.1 Protection of the works**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

90 **B11.2 Protection / isolation of existing / sectionally occupied works**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

91 **B11.3 Security of the works**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

92 **B11.4 Notice before covering work**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

93 **11.5 Disturbance**
Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___ Item

Carried to Collection

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94	B11.6 Environmental disturbance	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
95	B11.7 Works cleaning and clearing	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
96	B11.8 Vermin	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
97	B11.9 Overhand work	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
98	B11.10 Instruction manuals and guarantees	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
99	B11.11 As built information	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
100	B11.12 Tenant installations	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
	<u>B12. SCHEDULE OF VARIABLES</u>		
101	B12.1 Pre-tender information	Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___	Item
	<p>This schedule contains all variables referred to in this document and is divided into pretender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries.</p> <p>Spaces requiring information must be filled in, shown as “not applicable” or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted.</p> <p>Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicized in [] brackets</p>		
		Carried to Collection	R
	Bill No. 1 Preliminaries		

12.1 PRE TENDER INFORMATION

12.1.1 Provisional Bills of Quantities

[2.2] The quantities are provisional: YES

12.1.2 Availability of construction documentation

[2.3] Construction of documentation is complete: NO

12.1.3 Interest of agents

[2.4] Details: See Contract Data in Tender Document

12.1.4 Defined works area

[3.1] Details: As per Contract Data

12.1.5 Geotechnical investigation

[3.2] Details: NONE

12.1.6 Existing premises occupied

[3.4] Specific requirements: The Contractor must fabricate as much as possible off site as the building will be occupied during Construction.

12.1.7 Previous work - dimensional accuracy

[3.5] Details: To be checked on site by contractor prior to building operations.

12.1.8 Previous work - defects

[3.6] Details: To be checked on site by contractor prior to building operations.

12.1.9 Services - known

[3.7] Details: Should the contractor encounter any existing services such as underground cables, pipes or sewer during the execution of the works he shall notify the principal agent immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the principal agent.

12.1.10 Protection of trees

[3.9] Specific requirements: None

12.1.11 Inspection of adjoining properties [3.11] Specific requirements: The contractor must inspect adjoining properties and immediately bring to the notice of the Principal Agent of any consequences that may arise from the building works.

12.1.12 Enclosure of the works

[6.2] Specific requirements: The contractor shall enclose the works as required by the Occupational Health and Safety Act.

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Preliminaries

12.1.13 Offices

[6.4.3] Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chairs, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.

12.1.14 Main notice board

[6.5] Specific requirements:

The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board

The board shall be securely fixed to hoarding where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces.

Sub-contractor's individual boards will be allowed on the site subject to the written approval of the Representative/Agent.

12.1.15 **Subcontractors' notice board**

[6.6] Specific requirements: *NO*

12.1.16 **Water**

[7.2] Option A (by contractor) (YES)

Option B (by employer - free of charge when available) (YES)

Option C (by employer - metered) (NO)

12.1.17 **Electricity**

[7.3] Option A (by contractor) (YES)

Option B (by employer - free of charge when available) (NO)

Option C (by employer - metered) (NO)

12.1.18 **Telecommunications**

[7.4] Telephone (YES)

Facsimile (NO)

E-mail (YES)

Carried to Collection

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Bill No. 1
Preliminaries

12.1.19 **Ablution facilities**

[7.5] Option A (by contractor) (YES)

Option B (by employer) (NO)

12.1.20 **Protection of existing/sectionally occupied works**

[11.2] Protection is required (Only when existing buildings) (YES)

12.1.21 **Special attendance**

[9.2] **Electrical sub-contractor** (1) details: Site Meetings

12.1.22 **Protection of works**

[11.1] Specific requirements:

The contractor shall protect the works for the duration of the contract.

12.1.23 **Disturbance**

[11.5] Specific requirements:

The **contractor** shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the **works** all necessary temporary dust screens all to the satisfaction of the **principal agent**

12.1.24 **Environmental disturbance**

[11.6] Specific requirements: None

12.2 POST-TENDER INFORMATION

12.2.1 **Payment of preliminaries**

[10.2] Option A (prorated) (NO)

Option B (calculates) (YES)

Carried to Collection

R

Bill No. 1
Preliminaries

12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories)

(YES)

Option B (detailed breakdown)

(YES)

12.2.3 **Additional agreed preliminaries items**

Details: N/A

Carried to Collection

R

Bill No. 1
 Preliminaries

SCHEDULE OF SUPPLEMENTARY INFORMATION

NOTE:

The information listed below is in respect of certain clauses in the Preliminaries, requiring the supplementary information

Amount of insurance against injury to person or property in respect of any single occurrence **R 5 million**

Amount of insurance against removal of support to adjoining properties in respect of any single occurrence

Not specifically prescribed

Contract period -

110 (One Hundred and Ten) calendar days

The date for site handover :- TBA

Amount of penalty per day on which the completion of the works may be in arrear:

An amount equal to one fourteenth percent of the contract sum (exclusive of VAT) per calendar day.

Specification of materials and methods to be used:

Specification of Materials and Methods to be used - **PW 371, Fourth Revision, October 1993**

Edition of Standard System of measuring building work:

Sixth Edition including the latest amendments

SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

102 **C1 CONTRACT DRAWINGS**

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

Carried to Collection

R

Bill No. 1
Preliminaries

103 **C2 GENERAL PREAMBLES**

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the **bills of quantities** and be referred to for the full descriptions of work to be done and materials to be used

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

104 **C3 TRADE NAMES**

Wherever a trade name for any product has been described in the **bills of quantities**, 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

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

105 **C4 IMPORTED MATERIALS AND EQUIPMENT**

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment (DPW23EC) to be completed by tenderer)

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

106 **C5 VIEWING THE SITE IN SECURITY AREAS**

The **site** is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the **site** for tendering purposes

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

Carried to Collection

R

Bill No. 1
Preliminaries

107 **C6 COMMENCEMENT OF WORKS IN SECURITY AREAS**

As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the site may be refused and any additional costs will be for the **contractor's** account

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

108 **C7 ENTRANCE PERMITS TO SECURITY AREAS**

As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

109 **C8 SECURITY CHECK OF PERSONNEL**

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified

In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

110 **C9 PROHIBITION ON TAKING OF PHOTOGRAPHS**

In terms of article 119 of the defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

Fixed: _____ Value related: ___ N/A ___ Time related: ___ N/A ___

Item

Carried to Collection

R

Bill No. 1
Preliminaries

111 **C10 COVID 19 VACCINATION**

All Employees and Workers, inclusive of Sub-Contractors, Suppliers, Temps and Installers will have to provide proof of their Covid 19 vaccination (Official Covid Passport) to enter the building during construction and also work on the 'off-site fabrication', including attending site and any other meetings and visits related to the project, at site and off-site.

Fixed: _____ Value related: ___N/A___ Time related: ___N/A___

Item

112 **C11 OCCUPATIONAL HEALTH AND SAFETY ACT**

The contractor shall comply with the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 19093 (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 A3.10 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 interest, due to such delay of payment.

Provision 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.

Fixed: _____ Value related: ___N/A___ Time related: ___N/A___

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Preliminaries

Bill No. 1

Preliminaries

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Bill No. 1
 Preliminaries

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.

Water supply pipes and other piping 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.

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc.

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing.

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Bill No. 2
 Alterations

R

	<p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork.</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary.</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc).</p> <p><u>REMOVAL OF EXISTING WORK</u></p> <p><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc:</u></p>			
1	<p>Temporary timber flooring to access floors for lift.</p> <p><u>Taking out and setting aside and later re-use aluminium double door:</u></p> <p><u>Note: The contractor is to allow in the price for cleaning, repairing and later fixing in new position as per instruction from the Principal Agent.</u></p>	m2	6	
2	<p>Existing Aluminium Double Door size 1,500 x 2,100mm high.</p>	No	1	
3	<p><u>Repairs and servicing to existing:</u></p> <p>Check existing Klip-lok roof covering including ridge covering, hips and soldered work, fix loose sheeting and seal any leaks (say 5% of area) with Architect approved waterproofing membrane sealant all in accordance with the manufacturer's instructions.</p>	m2	608	
4	<p>Deep clean existing carpet tiles.</p>	m2	23	
	<p style="text-align: right;">Carried to Collection</p> <p>Bill No. 2 Alterations</p>			R

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Bill No. 2 Alterations		

Item No		Quantity	Rate	Amount
	<p><u>WATERPROOFING</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Waterproofing:</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.</p> <p><u>WATERPROOFING TO BUND WALLS</u></p> <p><u>One layer Derbigum SP3 waterproofing membrane sealed by means of 'torchfusion' or Coldbond 90 adhesive with 75mm side laps and 100mm end laps, laid under a ten-year guarantee, to receive paint or stone protection (elsewhere):</u></p>			
1	On bund wall.	m2	86	
2	On turn-ups and turn-downs exceeding 300mm girth	m2	30	
3	On turn-ups and turn-downs not exceeding 300mm girth	m	86	
4	Sealing edges to brickwork or concrete including trowelled mastic bead.	m	172	
5	Additional membrane at 100mm diameter outlet.	No	2	
	Carried to Collection			
	Bill No. 3 Waterproofing			R

PROTECTIVE ROOFING PAINT

Two coats "abe Silvakote" bituminous aluminium paint.

6	On waterproofing to bund wall.	m2	142
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Carried to Collection

Bill No. 3
Waterproofing

R

Bill No. 3

Waterproofing

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Bill No. 3
 Waterproofing

Item No		Quantity	Rate	Amount
	<u>CARPENTRY AND JOINERY</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary products in descriptions:</u>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
	<u>Joinery:</u>			
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.			
	<u>FLOORS</u>			
	<u>Wrot south African Pine</u>			
1	50 x 152mm Floor Joist.	m	11	
2	21mm Thick Shutterply boarding (Grade C+/C) fixed with brass countersunk screws to existing floor or timber joists, the joints flushed over with jointing compound, then taped over with 'DigiComp' tape (green) or similar approved and prepared for painting (elsewhere measured).	m2	68	
	<u>Sundries:</u>			
3	MiTek® eCo Z275 galvanised steel long 90° truss hanger to suit timber 50mm wide, bolted with M12 expanding bolts (elsewhere measured) with head nut and washers to concrete.	No	12	
	Carried to Collection			
	Bill No. 4			
	Carpentry and Joinery			
			R	

MFS WALLS

Sawn softwood:

4	50 x 76mm Wall Studs, blocking and bottom plate fixed to drywalls or timber floor to form framework.	m	349
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Wrot south African Pine

5	18mm Thick Plywood birch grade B/B boarding cut to form Rib (See D-01 on Dwg No. A.01.1 Rev D attached to BOQ), with one curved side at radius of around 410mm, approximate overall size 500mm x 115mm tapering to 40mm in the centre) fixed with drywall screws to existing floor and wall.	No	144
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6	44 x 22mm pine slats fixed between ribs in short lengths as blocking.	m	377
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Boarding:

7	2 x 6mm MDF boarding sheets, butt jointed and secured to ribs and blockings with 25 and 41mm drywall screws at maximum 300mm centres, the joints taped over and flushed over with jointing compound prepared for painting (elsewhere measured).	m2	34
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8	One layer of 12mm thick plasterboard in single lengths to suit height, butt jointed and secured to studding with 25 and 41mm drywall screws at maximum 300mm centres, the joints taped over and flushed over with jointing compound prepared for painting (elsewhere measured).	m2	102
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Sundries:

9	50mm thick 'Mandi Geowool' Insulation (or equal approved) fixed into framework cavity.	m2	112
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10	'Genesis' or equal approved TVR aluminium reducer 5mm.	m	22
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DOORS ETC

Carried to Collection

Bill No. 4
Carpentry and Joinery

R

Semi-Solid flush panel door with hardwood veneer on both faces including two concealed edges:

11	40mm Thick flush door, size 932 x 2 032mm high with acoustic core including opening size 600 x 200mm for viewing panel (elsewhere measured) and 15mm x 34mm groove into the bottom to receive seal (elsewhere measured).	No	2
12	40mm Thick flush door, size 1 100 x 1 500mm high with acoustic core ('Mandi Geowool' 50mm thick or equal approved) including 15mm x 34mm groove into the bottom to receive seal (elsewhere measured). Door to be cut on one side to slide past 110mm and 20mm fire pipework.	No	1
13	40mm Thick flush double door, size 1 500 x 2 032mm high with acoustic core ('Mandi Geowool' 50mm thick or equal approved) including 2 x openings size 600 x 200mm for viewing panels (elsewhere measured) and 15mm x 34mm groove into the bottom to receive seal (elsewhere measured).	No	2

FRAMED FRAMES ETC

Wrought meranti:

14	45 x 90mm Rebated and angle rounded frames plugged to drywall stud or wall.	m	22
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Sundries:

15	MM seals AO79-10F D-shape weather stripping door seal soundproofing hollow black 10mm width x 10mm height glued to frame.	m	26
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BEADS, ARCHITRAVES, ETC

Wrought meranti:

16	14 x 9mm beading planted on.	m	10
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Carried to Collection

Bill No. 4
Carpentry and Joinery

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Bill No. 4

Carpentry and Joinery

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Bill No. 4
 Carpentry and Joinery

Item No	<u>CEILING PARTITIONS AND ACCESS FLOORING</u>	Quantity	Rate	Amount
	<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Descriptions:</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.</p> <p>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.</p>			
	<p><u>SUSPENDED CEILINGS</u></p> <p><u>OWAcoustic®Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct® S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm.</u></p> <p><u>Note: Strapping hangers are to be bent at top and shot nailed to concrete, bolted to steel or screwed to timber purlins, etc.</u></p>			
1	Ceilings suspended not exceeding 1m below timber trusses at 2,400mm centres.	m2	55	
	Carried to Collection		R	
	Bill No. 5 Ceilings, Partitions and Access Flooring			

2	Ceilings suspended not exceeding 1m below concrete ceiling.	m2	53	
3	Ceilings suspended exceeding 1m not exceeding 2m below concrete ceiling.	m2	34	
	<u>OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.</u>			
4	To walls.	m	113	
	<u>Acoustic and thermal insulation:</u>			
5	50mm thick Genesis 60D insulation in density of 60m3 with noise reduction co-efficient (NRC) of 0.9, closely fitted and laid on top of suspended ceilings etc.	m2	142	
	<u>DRYWALL PARTITION SYSTEMS:</u>			
	<u>Pelican Systems Jumbo Firewall 2 hour fire rated partition system with overall thickness of 124mm comprising internal framing formed of 63mm galvanised steel studs fixed at 600mm centres to galvanised steel top and bottom track, including any additional steel studding necessary at door openings, glazed or other apertures, abutments, ends, corners, etc. and covered with two layers of 15mm thick Jumbo fire resistant plasterboard in single lengths to suit height, butt jointed and secured to studding with 25 and 41mm drywall screws at maximum 300mm centres, the joints taped over and flushed over with jointing compound prepared for painting (elsewhere measured):</u>			
6	Partitioning 2,100 mm high with 63mm top and bottom tracks plugged including 2 x 76mm high aluminium skirting on both sides.	m	1	
7	Partitioning 3,000 mm high with 63mm top and bottom tracks plugged including 2 x 76mm high aluminium skirting on both sides.	m	11	
8	Partitioning 4,451 mm high with 63mm top and bottom tracks plugged including 2 x 76mm high aluminium skirting on both sides.	m	28	
9	Extra over partition 3,000 mm high for door opening size 1,500 x 2,100mm high (door and door frame elsewhere measured).	No	1	
	Carried to Collection			
	Bill No. 5			
	Ceilings, Partitions and Access Flooring			R

10	Extra over partition 4,451 mm high for door opening size 932 x 2,100mm high (door and door frame elsewhere measured).	No	2
11	Extra over partition 4,451 mm high for door opening size 1, 500 x 2,100mm high (door and door frame elsewhere measured).	No	2
12	Extra over partition 4,451 mm high for window opening size 1,600 x 1,200mm high (window elsewhere measured).	No	2
13	Extra over partition 2,100 mm high for vertical abutment.	No	1
14	Extra over partition 3,000 mm high for vertical abutment.	No	2
15	Extra over partition 4,451 mm high for vertical abutment.	No	5
16	Extra over partition 2,100 mm high for corner.	No	1
17	Extra over partition 3,000 mm high for corner.	No	1
18	Extra over partition 4,451 mm high for corner.	No	1
19	Extra over partition 4,451m high for T-intersection.	No	3
20	Extra over partition 3,000 mm high for taking partition through steel I-Beam 157mm wide x 407mm high.	No	1

Carried to Collection

Bill No. 5
Ceilings, Partitions and Access Flooring

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Bill No. 5

Ceilings, Partitions and Access Flooring

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Bill No. 5

Ceilings, Partitions and Access Flooring

Item No	<u>FLOOR COVERINGS, PLASTIC LININGS, ETC</u>	Quantity	Rate	Amount
	<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Cleaning:</u></p> <p>Rates for floor covering shall include for proper cleaning on completion.</p> <p><u>CARPET SHEETING AND TILES</u></p> <p><u>DESSO Excel tufted loop pile carpet tiles colour 9980 with Polypropylene woven - Sandwich backing, overall size 400 x 400 x 7.4mm thick, laid in pressure sensitive adhesive, all installed by approved installer in accordance to EN 1307.</u></p>			
1	On smooth screeded floors.	m2	11	
	<p><u>ACOUSTIC TILES & MATS</u></p> <p><u>600 x 600 x 206mm thick 'Genesis' acoustic Skyline Q-Series diffusing tiles (In Colour to be selected by Architect) or similar approved:</u></p>			
2	Glued to existing walls with 'Genesis' contact adhesive or equal approved.	No	23	
	Carried to Collection			
	Bill No. 6 Floor Coverings			R

	<u>500 x 500 x 75mm thick 'Genesis' Pyramid Profile diffuser tiles (White) or similar approved:</u>				
3	Glued to existing walls with 'Genesis' contact adhesive or equal approved.	No	142		
4	Glued to existing concrete ceiling with 'Genesis' contact adhesive or equal approved.	No	180		
	<u>10mm thick sound proofing foam deadening vibration insulation closed cell mat:</u>				
5	Glued to floor with 'Genesis' contact adhesive or equal approved.	m2	64		
	<u>500 x 500 x 5,2mm Multi-Flor interlocking PVC tiles - Black:</u>				
6	Glued to floor with 'Pekay' adhesive and coatings or similar approved.	m2	55		
	<u>VINYL FLOOR COVERINGS, WALL LININGS, ETC.</u>				
	<u>FloorworX sarlon® trafic Code Zero 19dB acoustic heterogeneous vinyl sheeting 3.40mm thick colour Avocado (Colour code: 433218), manufactured in accordance with EN 651, laid in FloorworX No. 62 acrylic adhesive spread with a trowel fitted with an A2 notched blade at a rate of between 5.5m² and 6.5m² per litre on suitably prepared subfloor (elsewhere specified) in accordance with SANS 10070, using FloorworX Self Leveller when required, rolled with 68kg three section metal roller with joints welded with a fully flexible coloured 'FloorworX Welding Rod' to provide a smooth, hygienic sealed finish on completion.</u>				
7	On smooth shutterply floors (elsewhere measured).	m2	53		
	<u>POLISH, SEALERS, ETC</u>				
	<u>Clean by stripping and sealing and apply three coats water based copolymer emulsion or other approved sealer:</u>				
8	On vinyl flooring.	m2	53		
	Carried to Collection				R
	Bill No. 6 Floor Coverings				

Bill No. 6

Floor Coverings

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Bill No. 6
 Floor Coverings

Item No		Quantity	Rate	Amount
	<u>IRONMONGERY</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary products in descriptions:</u>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent:			
	<u>Finishes to ironmongery:</u>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded Fixing:			
	Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories			
	Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories			
	<u>HINGES, LOCKS, HANDLES, ETC.</u>			
	<u>Hinges:</u>			
1	8352-100SS/2, Powerload Bronze Bushed Hinge 100x88x3mm (Pairs).	Pairs	9.0	
	<u>Locks:</u>			
2	2X18SC, Double Cylinder Profile KD SC.	No	6	
	Carried to Collection			
	Bill No. 7 Ironmongery			R

3	QR50X85MM-SS, Euro Cylinder Roller and Dead Bolt Mortice Lock - 50mm Backset - Polished Brass.	No	1
4	L-2215-78SS/SL, Mortice Sash Lock - Stainless Steel.	No	3
5	QH50X85MM-SS, Euro Cylinder Hook Lock - 50mm Backset - Stainless Steel.	No	1
6	QR35X85MM-SS, Roller Latch & Deadbolt Lock - Stainless Steel.	No	1
7	PZ-05SS, Escutcheon On Rose Profile (Pairs).	Pairs	3.0
<u>Handles:</u>			
8	5206BBSS, 400mm Pull Handle BTB - 200mm Centre.	Pairs	4.0
9	SS6D66-22-05SS, 22mm SS Dove Lever Handle on 152x152mm Backplate - Euro Cylinder.	Pairs	3.0
10	SS5004SS, Flush Pull Handle Radius.	No	2
<u>Door closers:</u>			
11	FD461-DC500, Mechanical Coordinator Double Door SIL EN1-4.	No	2
<u>Sliding door gear:</u>			
12	27-665540, Husky 100 Kit (H100/24) - Steel Track - Max 1250mm.	No	1
<u>Push plates:</u>			
13	750 x 800mm Stainless steel 1.2mm thick push/kick plate fixed to door.	No	8
<u>Catches, door seals, door stops:</u>			
14	8052-200SC, Flush Bolt 200mm SC.	No	4
15	8852SC, Dust Proof Strike.	No	2
16	PS-HS76084SM, HSN/PLANET HS Smoke Resistant 834mm.	No	4
17	PS-HS76096SM, HSN/PLANET HS Smoke Resistant 960mm.	No	3

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Bill No. 7
Ironmongery

R

18	PS-HS76121SM, HSN/PLANET HS Smoke Resistant 1210mm.	No	1
19	87001SS, Floor Door Stop Satin SS.	No	7
<u>Sign plates:</u>			
20	190 x 380mm E1 - SABS Running Man & Arrow Left and Right Photo luminescent Sign (glow in the dark) on 0.9mm ABS plastic.	No	3
21	190 x 380mm F13 - SABS Arrow Down & Fire Extinguisher Photo luminescent Sign (glow in the dark) on 0.9mm ABS plastic.	No	4
22	190 x 380mm E6 - SABS Exit Photo luminescent Sign (glow in the dark) on 0.9mm ABS plastic.	No	6
<u>Fire extinguishers:</u>			
23	4.5 Kg DCP fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm Wrot Meranti backboard, size 250 x 500mm high with chamfered edges, varnish and fixed to wall.	No	4

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Bill No. 7
Ironmongery

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Bill No. 7

Ironmongery

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Bill No. 7
 Ironmongery

Item No		Quantity	Rate	Amount
	<u>STRUCTURAL STEELWORK</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The Tenderer is referred to the Structural Steel Notes on the Drawing titled 'General Notes', Drawing No. P2_NO1 attached to the Tender Document when pricing the items below.			
	<u>THE FOLLOWING STRUCTURAL STEEL MEMBERS APPLY TO THE MULTI FUNCTIONAL STUDIO</u>			
	<u>STEEL COLUMNS AND BEAMS</u>			
	<u>Hot dipped galvanised steel beams including holing steel for bolts, etc erected complete.</u>			
1	200 x 75 x 24mm x 25,3kg/m Parallel Flanged Channel beam.	kg	506	
2	200 x 100 x 22mm x 22,4kg/m I-section beam.	kg	660	
3	Gusset plates, end plates, connection plates, etc	kg	15	
	<u>Hot dipped galvanised steel 'H' frame erected complete:</u>			
4	60 x 60 x 4mm x 5,88kg/m steel hollow section frame.	kg	132	
5	Gusset plates, end plates, connection plates, etc	kg	13	
	<u>THE FOLLOWING STRUCTURAL STEEL MEMBERS APPLY TO THE LIFT SHAFT</u>			
	Carried to Collection			
	Bill No. 8			
	Structural Steelwork			
			R	

Hot dipped galvanised steel columns and beams welded in single lengths with hollow section, base plates, connection plates and cleats bolted to concrete base and steel beams including holing steel for bolts, etc erected complete.

6	180 x 70 x 22mm x 22kg/m Parallel Flanged Channel beam.	kg	156
7	140 x 73 x 13mm x 12,9kg/m I-section beam.	kg	46
8	120 x 120 x 4mm x 14,5kg/m Square Hollow Section Steel Column.	kg	456
9	120 x 60 x 4mm x 10,7kg/m Rectangular Hollow Section Steel Column.	kg	562
10	Gusset plates, end plates, connection plates, etc	kg	18
11	200 x 200 x 6mm Base Plate four times holed welded to 120 x 120mm SHS column.	No	4
<u>Bolts to columns, rafters, purlins, etc</u>			
12	M16 Grade 8,8 HDG bolts.	kg	9
13	M12 Grade 8,8 HDG bolts.	kg	0.4
14	M12 Hollow bolts.	kg	5
15	12mm Rawlbolts 100mm long including fixing into concrete or brickwork.	No	44
16	12 x 90mm Coach Screws bolted into Timber.	No	8
<u>GROUT, ETC</u>			
17	25mm Thick grout to base plate	m2	0.2

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Bill No. 8
Structural Steelwork

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Bill No. 8

Structural Steelwork

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Bill No. 8

Structural Steelwork

Item No		Quantity	Rate	Amount
	<p><u>METALWORK</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Descriptions</p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>NOTE: All steel will be Hot dipped galvanised unless otherwise stated</u></p> <p><u>ALUMINIUM WINDOWS & DOORS</u></p> <p>All windows & doors to be approved by the Architect prior to installation and should be similar to Grade AA15 aluminium shop fronts.</p> <p><u>Matt charcoal powder coated aluminium windows ('Wispeco' or similar approved), factory glazed with 6.76mm laminated acoustic glass (single glaze) with clip-on glazing beads, with neoprene seals and fixed with minimum three lugs per side in accordance with manufacturers instructions (See window schedule attached to these bills of quantities):</u></p>			
1	Type W01 (1600 x 1200mm high) fixed pane as per manufacturer.	No	1	
	Carried to Collection			
	Bill No. 9 Metalwork		R	

Matt charcoal powder coated aluminium lift glazing panels, factory glazed with 10mm laminated safety glass (single glaze) with clip-on glazing beads, with neoprene seals and fixed with minimum three lugs per side in accordance with manufacturers instructions:

2	1800 x 700mm fixed pane as per manufacturer.	No	2
3	2150 x 700mm fixed pane as per manufacturer.	No	1
4	1800 x 1075mm fixed pane as per manufacturer.	No	8
5	1800 x 2050mm fixed pane as per manufacturer.	No	2
6	2150 x 2050mm fixed pane as per manufacturer.	No	2

Matt grey powder coated aluminium doors, custom made, factory glazed with 6.35mm laminated safety glass with clip-on glazing beads, with gasket seals and fixed in accordance with manufacturers instructions including all ironmongery (See door schedule attached to these bills of quantities):

7	Provide frame only for double entrance door size 1,500 x 2,100mm high removed from studio (elsewhere measured), fixed to partition system opening.	No	1
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Bill No. 9
Metalwork

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Bill No. 9

Metalwork

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Bill No. 9
Metalwork

Item No		Quantity	Rate	Amount
	<p><u>GLAZING</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>GLAZING TO WOOD WITH PINNED ON BEADS (BEADS ELSEWHERE)</u></p> <p><u>8,76mm Thick clear GSA soundproof laminated safety glass:</u></p>			
1	<p>Panes exceeding 0,1m² and not exceeding 0,5m².</p> <p><u>Sundries:</u></p>	m2	1	
2	<p>Allow the sum of R600.00 (Six Hundred Rand) per m2 for Tinting to be applied to Glazing for privacy by Specialist Sub-Contractor.</p>	m2	1	
	<p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u></p> <p><u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete:</u></p>			
3	<p>Mirror 900 x 1000mm high including four CP screw caps inclusive of small wood shelf below size 900x100x20mm laminated white fixed just below mirror.</p>	No	1	
	Carried to Summary			
	Bill No. 10 Glazier			R

Item No		Quantity	Rate	Amount
	<p><u>PAINTWORK</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p>All work to be executed as described in clause 18 of PW 371.</p> <p>All work to be executed in strict accordance with the specifications of the paint manufacturer.</p> <p>Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.</p>			
	<p>Carried to Collection</p>		R	
<p>Bill No. 11 Painting</p>				

Surface preparation to Cement Plaster and Concrete Surfaces:

Remove loose and peeling paint back to a firm edge by scraping, sanding or other suitable means and feather edges.

Apply sodium hypochlorite solution (household bleach thinned 1 part bleach to 2 parts water) to all areas containing algae. Leave for at least 1 hour.

Scrub entire area with a Sugar Soap solution to remove dirt, chalked material and any other contaminants. Rinse thoroughly with fresh water and allow drying (see below).

Repair cracks and/or plaster defects as per "Crack Repair / Plaster Finish" instructions below.

All surfaces must be clean, sound and dry before painting. The moisture content of the cement plaster surfaces must be below 8% when measured on a Doser Hygrometer BD2 scale (or equivalent) and the concrete surfaces must be below 5% when measured on a Doser Hygrometer BD4 scale.

Surface preparation for exterior face brick:

Remove loose and peeling paint back to a firm edge by scraping, sanding or other suitable means and feather edges.

Apply sodium hypochlorite solution (household bleach thinned 1 part bleach to 2 parts water) to all areas containing algae. Leave for at least 1 hour.

Scrub entire surface with Sugar Soap solution and hard bristle brush to remove all traces of algae residues, bleach, efflorescence and paint chalk stains. Stubborn efflorescence and chalk stains may be removed with Mortalift if required. Follow the directions on the container. Finally rinse thoroughly with fresh water and allow at drying. Mortar which is missing, soft or friable must be scraped out between the bricks and replaced. All surfaces must be clean, sound and dry before painting. The moisture content of the surface must be below 8% when measured on a Doser BD2 scale (or equivalent).

Carried to Collection

Bill No. 11
Painting

R

Surface preparation for interior gypsum/rhino boards (rhinolite):

Remove loose and peeling paint back to a firm edge by scraping, sanding or other suitable means and feather edges.

Apply sodium hypochlorite solution (household bleach thinned 1 part bleach to 2 parts water) to all areas containing algae. Leave for at least 1 hour.

Scrub entire area with a Sugar Soap solution to remove dirt, chalked material and any other contaminants. Rinse thoroughly with fresh water and allow drying (see below).

N.B. Care must be taken to avoid damage to exposed Rhinolite surfaces by water during cleaning operations. Make good any defects with Mendall 90. Smooth off whilst still wet, allow to dry and sand smooth. Remove dust.

Prime defects with Professional Gypsum and Plaster Primer and allow complete drying prior to making good with Mendall 90, smoothing off whilst still wet.

Ensure that all surfaces are clean, dry and sound before repainting.

Carried to Collection

Bill No. 11
Painting

R

Surface preparation for exterior fibre cement:

NB: FOR HEALTH REASONS AVOID AIR BORNE DUST WHEN PREPARING FIBRE CEMENT / ASBESTOS SURFACES. AIR BORNE FIBRES ARE DETRIMENTAL TO THE ENVIRONMENT AND TO HUMAN HEALTH. KEEP SURFACES DAMP DURING PREPARATION.

Remove all loose and flaking paint by scraping or other suitable means. Feather edges and remove dust.

NB: Any unsound paint remaining on the surface if over coated may fail at a later stage.

Apply sodium hypochlorite solution (household bleach thinned 1 part bleach to 2 parts water) to all areas containing algae. Leave for at least one hour.

Scrub the entire area with Sugar Soap solution to remove all traces of bleach, dirt, chalked material and other contaminants. Allow to dry.

NB: Care must be taken to avoid damage to exposed fibre cement / asbestos surfaces by water during cleaning operations.

Sand existing paint lightly to provide a key. Remove dust.

Prime defects with Bonding Liquid and allow complete drying prior to making good with Mendall 90. Smooth off whilst still wet, allow to dry and sand smooth. Remove dust.

Ensure that all surfaces are clean, dry and sound before repainting. The moisture content of the surface must be below 8% when measured on a Doser BD2 scale, or equivalent.

Carried to Collection

Bill No. 11
Painting

R

Surface preparation for exterior and interior wood:

Remove all loose and peeling varnish back to a firm edge and feather edges.

Clean surfaces with Lacquer Thinner and clean cloths to remove oils and other contaminants.

Make good defects with wood filler in a matching shade. Allow to dry and sand smooth.

Sand old enamel paint to an even matt finish to provide a key. Remove dust.

Remove wood stains using a washing soda solution and pot scourers. Wash off crystalline deposit thoroughly with clean water. Allow to dry and sand smooth using steel wool.

Punch all exposed nail heads and prime with one coat Zinc Phosphate Primer (UC 170).

The wood must be sound, clean and totally dry before painting. Using a Doser BD2 Scale set on A2 (soft wood) or A4 (hard wood) or equivalent, the moisture content must not be higher than 14%.

Carried to Collection

Bill No. 11
Painting

R

Surface preparation for interior and exterior galvanised iron:

Remove all loose and flaking paint by most suitable means such as scraping back to a firm edge. Feather edges.

Clean all galvanised areas with Galvanised Iron Cleaner to achieve a water break-free surface. Rinse thoroughly with fresh water. Allow to dry.

Sand old enamel back to a matt finish and remove dust.

Sand off red rust on metal brackets and galvanised areas back to bright metal.

Clean out inside of gutters, re-caulk gutter and down pipe joints where necessary.

Replace down pipe Shoe and Swan-Neck where necessary.

Ensure surface is clean, sound and dry prior to painting.

Carried to Collection

Bill No. 11
Painting

R

Surface preparation for exterior galvanised iron roofs,
etc.:

**Adhesion tests of the coated material must be done
randomly on the roof:**

If 10% and more of the surface area exhibit poor adhesion of the paint when checked by 2mm cross-hatch test, method SANS 5159:1975, a 90% pass rate must be achieved. If not, all existing paint must be removed by using a water cooled wire brush system (available from Bosch). Sand off any rust spots back to bright clean metal by means of mechanical sand or hand wire brush to St. 3 or the International Standard ISO 8501-1:1998. Refit overlaps and loose sheets which are standing proud. Replace any loose, rusted screws and bolts as well as perished washers. Clean the entire surface firstly by scrubbing with Aquasolv Degreaser and Scotch Brite pads or bristle brooms. (This will remove dirt and any other contaminants and also abrade the surface slightly to provide a key for subsequent coats). Rinse the entire surface thoroughly with fresh water, high pressure wash to remove all traces of Aquasolv and debris. Allow to dry and check for water break-free surface. If not water-break free, repeat cleaning process.

Ensure that all surfaces are clean, sound and dry.

Sellotape Test for Cleanliness:

Cut a 10 - 15 cm strip of broad Sellotape (\pm 50mm) and using your thumb, press it down firmly onto the dry surface. Rip the tape off the surface and immediately stick it down on a sheet of clean, white paper. Check the tape for any discolouration/chalky deposit and if found to be present, the entire cleaning procedure must be repeated.

Contaminant free tape must be evident prior to the application of the coating system.

Carried to Collection

Bill No. 11
Painting

R

Surface preparation for interior and exterior mild steel:

Inspect shop primer and where necessary, remove any loose and flaking paint. Feather edges.

Wash surfaces with Aquasolv to remove all grease and contaminants. Rinse thoroughly with fresh water and allow drying.

Remove rust completely back to bright metal by sanding and scraping, or by using Rust Remover following instructions on the container.

Where rust cannot be removed completely and Rusist is to be applied: All loose rust must be removed by scraping, chipping, etc. Where it is not possible or practical to remove rust completely, such as in hidden areas and deep recesses, Rusist Rust Converter may be applied.

Surfaces must be clean, sound and dry before painting.

Crack Repair (hairline to 2.5mm wide):

Rake out plaster cracks removing dust and debris. Apply a low viscosity injection-liquid high strength epoxy resin by high pressure pumping into crack.(Sikadur - 52 za or similar)
Apply 2 coats road marking paint over the crack.

PAINTWORK ETC TO NEW WORK

ON FIBRE-CEMENT OR RHINOBAORD

Prepare and skim 3mm thick approved skim plaster, apply 1 coat plaster primer (PP700) and paint with 2 coats ProfessionalSuperior Low Sheen (PEM 1000):

1	On rhino board dry walling.	m2	309
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Prepare and skim 3mm thick approved skim plaster, apply 1 coat plaster primer (PP700) and paint with 3 coats 'Digi Comp HD' Digital Composition Paint Key Matt Green' (Rosco Paints 083 422 0988):

2	On rhino board or MDF dry walling .	m2	136
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Carried to Collection

Bill No. 11
Painting

R

ON WOOD

Prepare and apply 1 coat wood primer (UC 2) and 2 coats Cashmere (CAS) Matt paint:

3	On doors (all surfaces measured).	m2	25
4	On frames, rails, etc not exceeding 300 mm girth.	m	22

Prepare and apply 1 coat wood primer (UC 2):

5	General surfaces of internal wall timbers.	m2	87
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Prepare and apply 1 coat wood primer (UC 2) and paint with 3 coats 'Digi Comp HD' Digital Composition Paint Key Matt Green':

6	On shutterply flooring.	m2	68
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ON METAL

Clean down thoroughly with galvanised iron cleaner, wash down with water, prime with one coat zinc phosphate primer and finish with two coats super universal enamel:

7	Steel Beams, columns, etc.	m2	83
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PAINTWORK ETC TO PREVIOUSLY PAINTED WORK

Note: Contractor to refer to preambles in front of Painting Bill for surface preparation specifications for various substrate types.

ON PLASTERED WALLS

Prepare and apply 2 coats professional superior low sheen (PEM 1000):

8	On previously painted internal walls.	m2	112
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ON WOOD

Carried to Collection

Bill No. 11
Painting

R

Prepare and apply 1 coat 'UC2 Plascon' or equal approved wood primer to bare timber areas and 2 coats 'Plascon Velvagio Satin' or equal approved non drip enamel paint:

9	General surfaces of internal roof timbers.	m2	751
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Carried to Collection

Bill No. 11
Painting

R

Bill No. 11

Painting

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

63

64

65

66

67

68

69

70

71

72

Carried to Summary

R

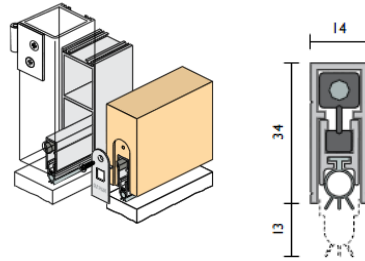
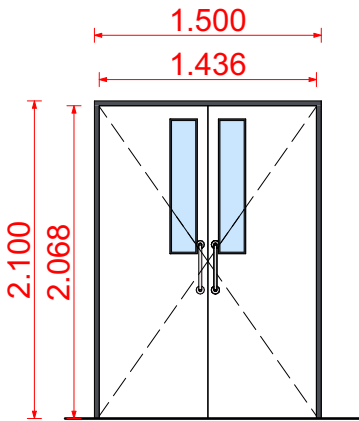
Bill No. 11
Painting

Item No	<u>MFS RAILING SYSTEMS</u>	Quantity	Rate	Amount
1	Allow the sum of R150,000.00 (One Hundred and Fifty Thousand Rand) for the Supply and installation of Aluminium Triangular Trusses to existing steel supports to be executed by a firm of specialist sub-contractors.	Item		150 000.00
2	Allow for profit on last if required.	Item		
3	Allow for general attendance and making good in all trades on the sub-contractor executing the Truss Installation.	Item		
Carried to Summary			R	
Bill No. 12 Provisional Sums				

Bill No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries	33	
2	Alterations	37	
3	Waterproofing	40	
4	Carpentry and Joinery	44	
5	Ceilings, Partitions and Access Flooring	48	
6	Floor Coverings	51	
7	Ironmongery	55	
8	Structural Steelwork	58	
9	Metalwork	61	
10	Glazier	62	
11	Painting	73	
12	Provisional Sums	74	
	<u>PART A Bills of Quantities: Electrical Installation</u>		
	Carried Forward from Summary: Electrical Installation Volume A.	Item	
	<u>PART B Bills of Quantities: Air Conditioning and Ventilation</u>		
	Carried Forward from Summary: Air Conditioning and Ventilation Volume B.	Item	
	<u>PART C Bills of Quantities: Lift Installation</u>		
	Carried Forward from Summary: Lift Installation Volume C.	Item	
	<u>PART D Bills of Quantities: Fire Protection</u>		
	Carried Forward from Summary: Fire Protection Volume D.	Item	
	Carried Forward		R

Bill No	<u>FINAL SUMMARY</u>	Page No	Amount
	Brought Forward		R
	<u>CONTINGENCIES</u>		
	Provide the sum of R500,000.00 (Five Hundred Thousand Rand) for contingencies to be used at the discretion of the Principal Agent and deducted in whole or in part if so required.		R
	TOTAL FOR RENOVATION WORKS		R
	Add Value Added Tax at the rate of 15%		R
	Carried to Form of Tender		R

NOTE: Dimensions shown are actual brickwork opening sizes.
All dimensions to be checked and verified on site prior to manufacture.



RPSS



Location Around door and window frames.

Min/Max Gap 3mm to 6mm (user determined).

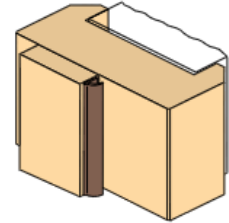
Seal Sizes 5m coil pack length (2 x 2.5m) Jumbo reel (2 x 50m).

Seal Material EPDM closed cell sponge (White, Brown or Grey).

Fixing Method Self adhesive.

Note: Contact surface must be clean, smooth and if painted, well cured.

Approvals Energy Complies with NCC BCA Pt. 3.12.3.3 & 3.4 for Building Sealing and Energy efficiency.



MFS Double Door with Sound Seal - GF

Quantity: 02 piece
POSITION: As per plan.
Contractor to check floor plans for LH/RH openings.

D01

DESCRIPTION:

Fully rebated semi-solid core door fitted with door bottom seal (Planet HS) and acoustic seal on frame (MM Seals A079-10F D-Shape weather stripping door seal soundproofing hollow black 10 mm width x 10 mm height(3 meter). rolls Noise reduction co-efficient (NRC): 0.9 at 50mm thick core to be fitted between the door leaf. Seals supplied by Planet HS through Assa Abloy.

40mm thick heavy duty horizontal grooved hardboard double door with exposed edges, size 1500mm x 2032mm high Painted and push plates fitted 600mm x 200mm viewing pannel.

DOOR FINISH:

Door to be finished as follows:
All blemishes in timber to be filled and sanded down and prepared for painting.

Plascon Cashmere to new wood.

Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats Cashmere (CAS) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

IRONMONGERY:

Refer to ironmongery schedule

FRAME:

DESCRIPTION

90mm Meranti Door frame with, MM Seals A079-10F D-Shape weather stripping door seal soundproofing hollow black 10 mm width x 10 mm height(3 meter)

FINISH

See door finish specification

GLAZING:

8.76mm GSA Soundprufe Clear HPR 38dB HPR Clear laminated safety glass, complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, glazed in accordance with NBR N schedule 1 and SABS 0137.

ARCHITECT:

BLACK VISION CONSULTANTS

39 Hillside Drive Blue Rise
Queenstown
5320



Modified by

SNK

Date
2021/10/29

Checked by

SNK

Date
2021/11/01

Issued For

TENDERING

Drawing Name

Door Schedules

Drawing Status

CONSTRUCTION DRAWINGS

CLIENT:

NATIONAL FILM AND VIDEO FOUNDATION

39 Hillside Drive Blue Rise
Queenstown
5320



REFURBISHMENT OF THE EASTERN CAPE FILM HUB

33 CHURCH STREET
EAST LONDON
5240

Drawing Scale

1:50

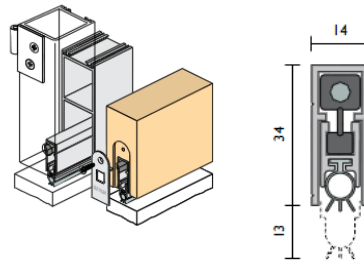
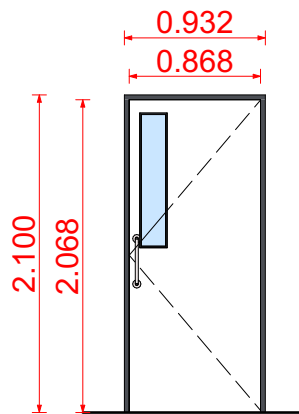
Layout ID

A.02.1.1

Revision

A

NOTE: Dimensions shown are actual brickwork opening sizes.
All dimensions to be checked and verified on site prior to manufacture.



RPSS



Location Around door and window frames.

Min/Max Gap 3mm to 6mm (user determined).

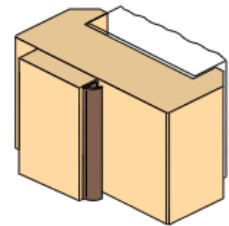
Seal Sizes 5m coil pack length (2 x 2.5m) Jumbo reel (2 x 50m).

Seal Material EPDM closed cell sponge (White, Brown or Grey).

Fixing Method Self adhesive.

Note: Contact surface must be clean, smooth and if painted, well cured.

Approvals Energy Complies with NCC BCA Pt. 3.12.3.3 & 3.4 for Building Sealing and Energy efficiency.



MFS Control Rm / Sound Rm Door with Sound Seal - GF

Quantity: 03 piece

POSITION: As per plan.

Contractor to check floor plans for LH/RH openings.

D02

DESCRIPTION:

Fully rebated semi-solid core door fitted with door bottom seal (Planet HS) and acoustic seal on frame (MM Seals A079-10F D-Shape weather stripping door seal soundproofing hollow black 10 mm width x 10 mm height(3 meter). rolls Noise reduction co-efficient (NRC): 0.9 at 50mm thick core to be fitted between the door leaf. Seals supplied by Planet HS through Assa Abloy.

40mm thick heavy duty horizontal grooved hardboard double door with exposed edges, size 932mm x 2032mm high Painted and push plates fitted 600mm x 200mm viewing pannel.

DOOR FINISH:

Door to be finished as follows:
All blemishes in timber to be filled and sanded down and prepared for painting.

Plascon Cashmere to new wood.

Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats Cashmere (CAS) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

IRONMONGERY:

Refer to ironmongery schedule

FRAME:

DESCRIPTION

90mm Meranti Door frame with, MM Seals A079-10F D-Shape weather stripping door seal soundproofing hollow black 10 mm width x 10 mm height(3 meter)

FINISH

See door finish specification

GLAZING:

8.76mm GSA Soundprufe Clear HPR 38dB HPR Clear laminated safety glass, complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, glazed in accordance with NBR N schedule 1 and SABS 0137.

ARCHITECT:

BLACK VISION CONSULTANTS

39 Hillside Drive Blue Rise
Queenstown
5320



Modified by

SNK

Date

2021/10/29

Checked by

SNK

Date

2021/11/01

Issued For

TENDERING

Drawing Name

Door Schedules

Drawing Status

CONSTRUCTION DRAWINGS

CLIENT:

NATIONAL FILM AND VIDEO FOUNDATION

39 Hillside Drive Blue Rise
Queenstown
5320



REFURBISHMENT OF THE EASTERN CAPE FILM HUB

33 CHURCH STREET
EAST LONDON
5240

Drawing Scale

1:50

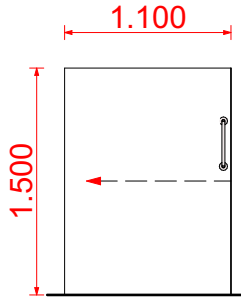
Layout ID

A.02.1.2

Revision

A

NOTE: Dimensions shown are actual brickwork opening sizes.
All dimensions to be checked and verified on site prior to manufacture.



RPSS **L**



Location Around door and window frames.

Min/Max Gap 3mm to 6mm (user determined).

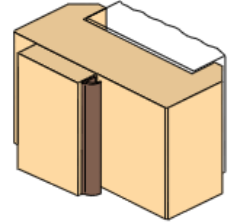
Seal Sizes 5m coil pack length (2 x 2.5m) jumbo reel (2 x 50m).

Seal Material EPDM closed cell sponge (White, Brown or Grey).

Fixing Method Self adhesive.

Notes: Contact surface must be clean, smooth and if painted, well cured.

Approvals
Energy Complies with NCC BCA Pt 3.1.2.3.3 & 3.4 for Building Sealing and Energy efficiency.



Fire Sprinklers Sliding Door with Sound Seal - GF

Quantity: 01 pieces
POSITION: As per plan.
Contractor to check floor plans for LH/RH openings.

D03

DESCRIPTION:

Fully rebated semi-solid core door fitted with door bottom seal (Planet HS) and acoustic seal on frame (MM Seals A079-10F D-Shape weather stripping door seal soundproofing hollow black 10 mm width x 10 mm height(3 meter). 24m3 or 60m3 Excellent acoustic and thermal insulation, rolls Noise reduction co-efficient (NRC): 0.9 at 50mm thick core to be fitted between the door leaf. Seals supplied by Planet HS through Assa Abloy.

40mm thick semi solid hardboard door with exposed edges, size 1100mm x 1500mm high.

DOOR FINISH:

Door to be finished as follows:
All blemishes in timber to be filled and sanded down and prepared for painting.

Plascon Cashmere to new wood.

Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats Cashmere (CAS) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

IRONMONGERY:

Refer to ironmongery schedule

FRAME:

DESCRIPTION

FINISH

See door finish specification

GLAZING:

ARCHITECT:

BLACK VISION CONSULTANTS

39 Hillside Drive Blue Rise
Queenstown
5320



Modified by

SNK

Date
2021/10/29

Checked by

SNK

Date
2021/11/01

Issued For

TENDERING

Drawing Name

Door Schedules

Drawing Status

CONSTRUCTION DRAWINGS

CLIENT:

NATIONAL FILM AND VIDEO FOUNDATION

39 Hillside Drive Blue Rise
Queenstown
5320



REFURBISHMENT OF THE EASTERN CAPE FILM HUB

33 CHURCH STREET
EAST LONDON
5240

Drawing Scale

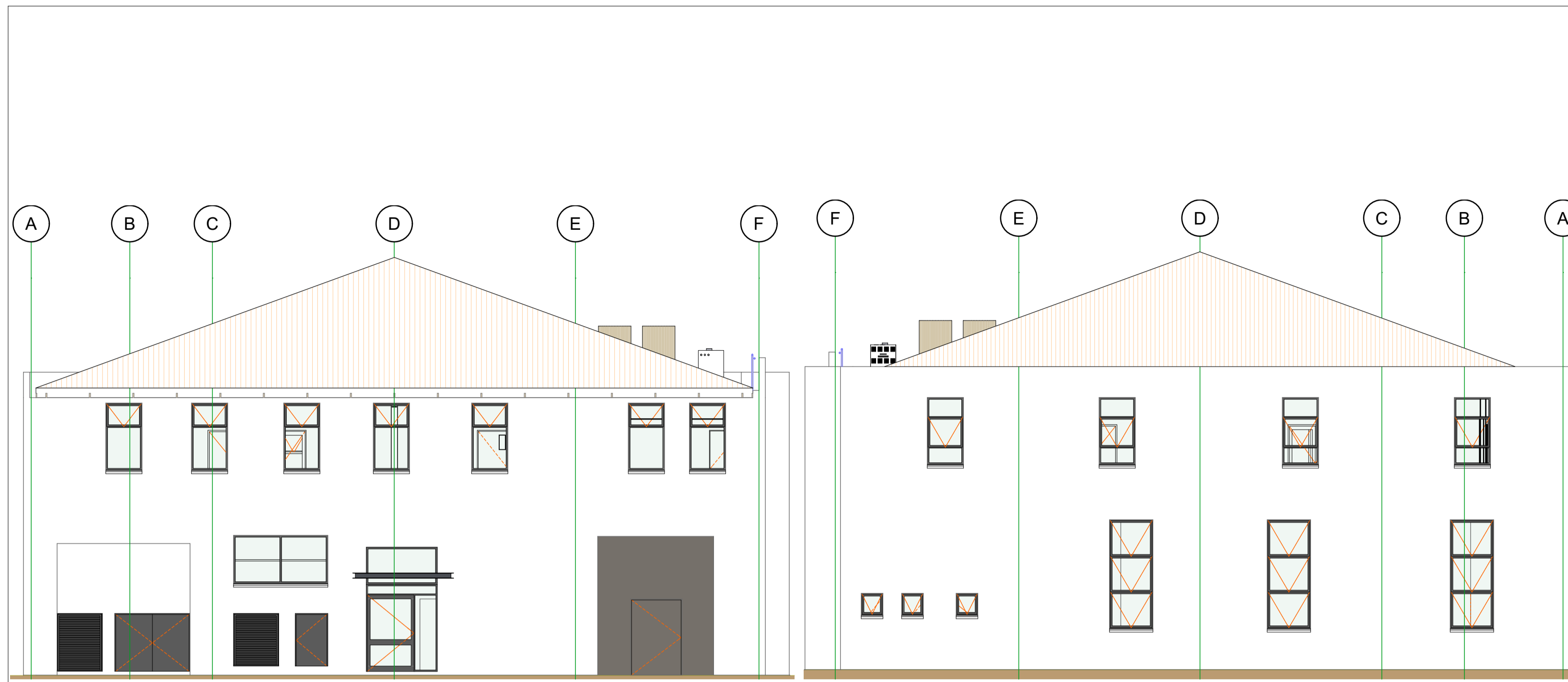
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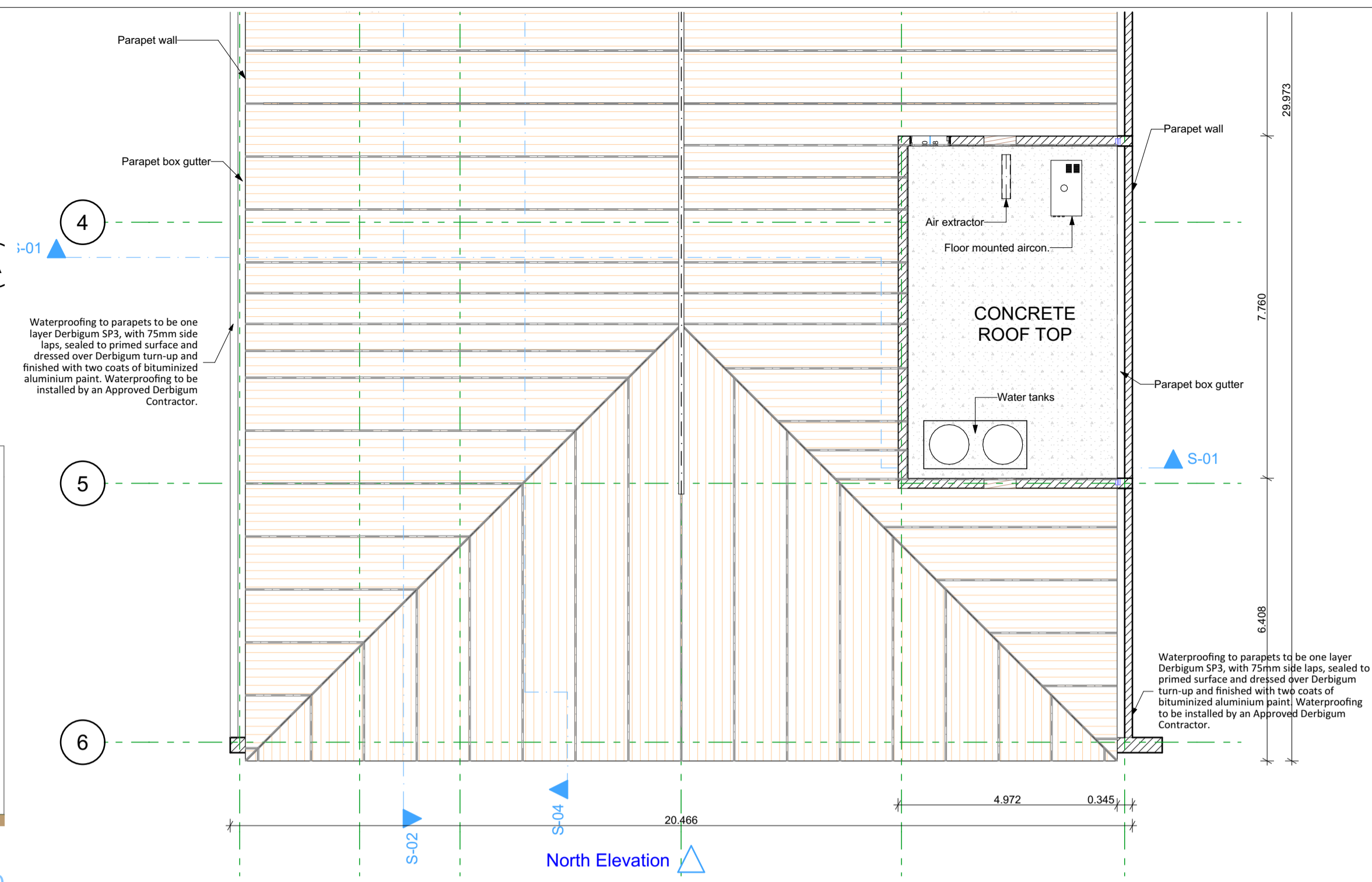
Revision

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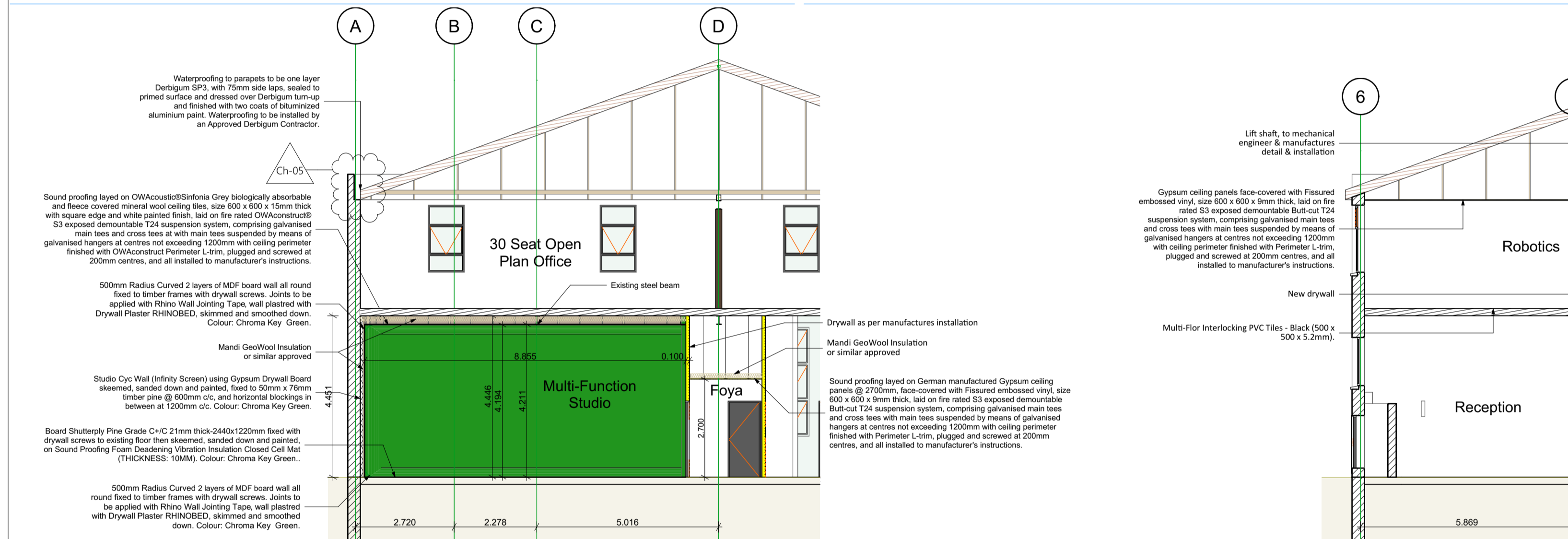


North Elevation 1:100

South Elevation 1:100



Roof Plan 1:100

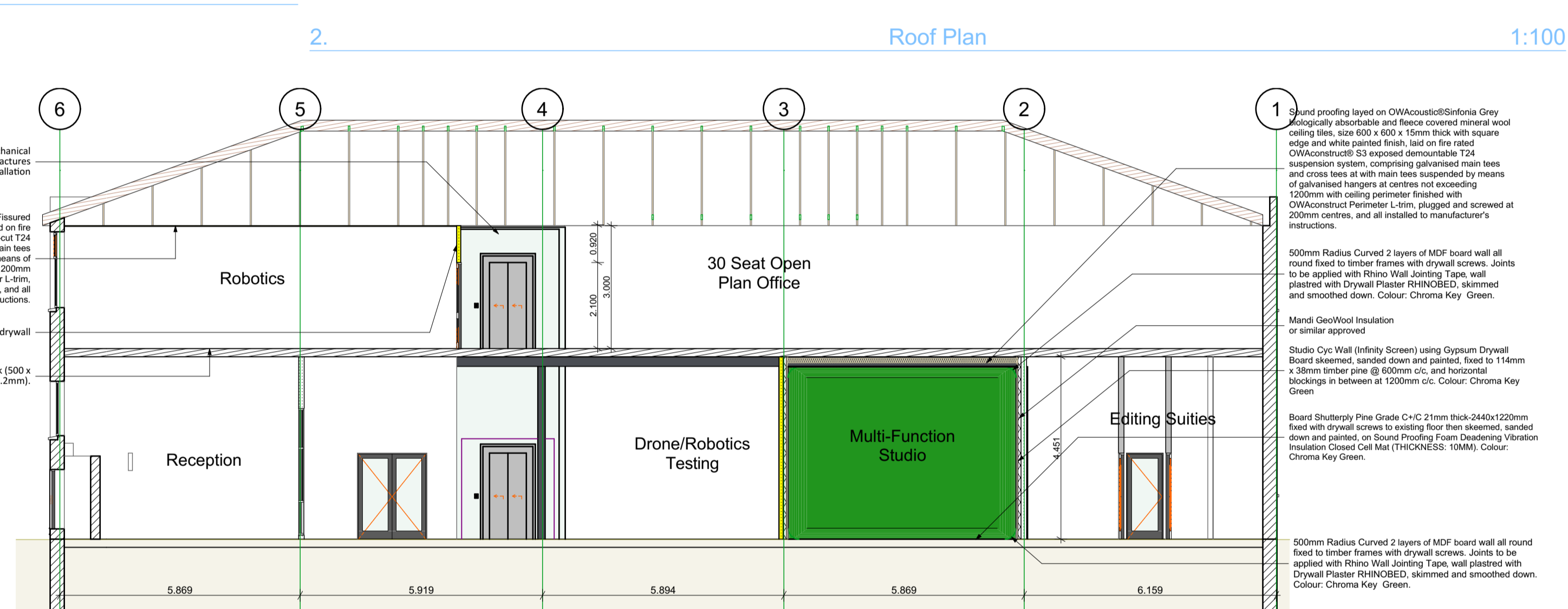


S-03

Building Section 1:100

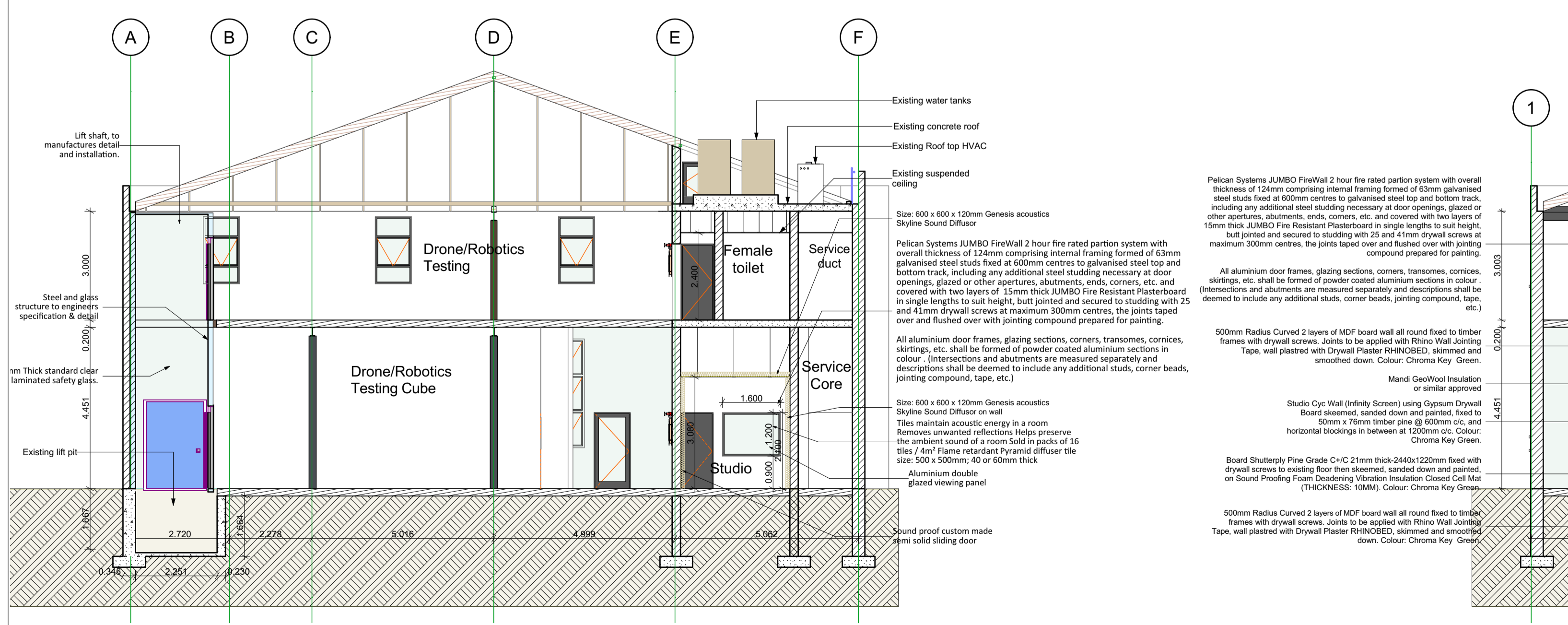
S-04

Building Section 1:100



Building Section 1:100

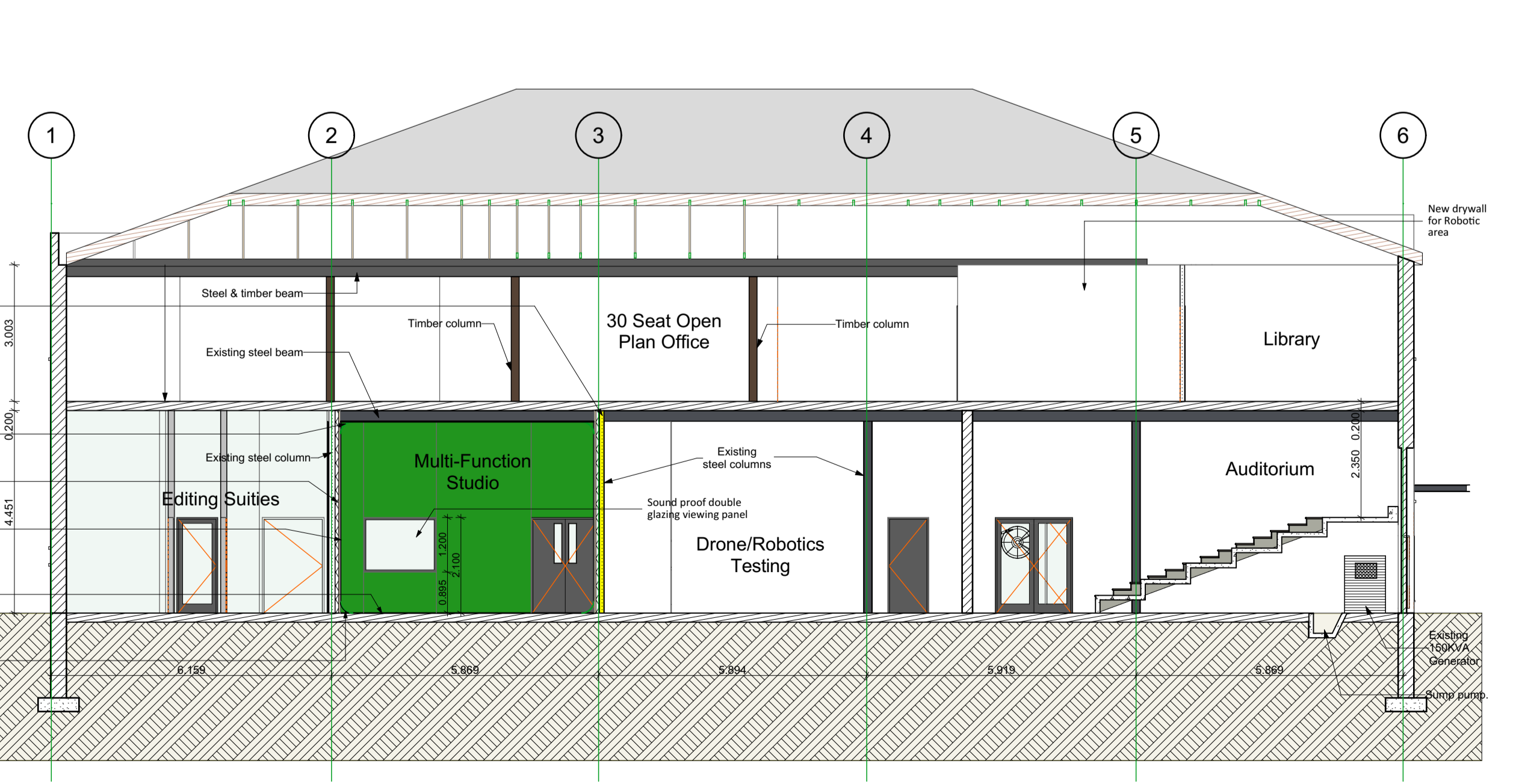
S-02



S-01

Building Section 1:100

1:100S-02



Building Section 1:100

S-02

BLACK VISION CONSULTANTS
Architects | Project Managers | Quantity Surveyors

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General Notes
The contractor is to ensure full compliance with all drawings on site. Contractors are responsible for the correct setting out of the building on site with reference to boundaries and building lines. Contractors to verify all levels and elevations on site and check same against architect and engineers drawings before commencing work. Figure dimensions to be used in preference to stated dimensions. Large scale details to be used where available. Errors, omissions or discrepancies are to be reported to the architect immediately for clarification before work is undertaken.
These drawings are to be read in conjunction with structural engineers, civil engineers, mechanical engineers or planning consultant's drawings where specified.
All work and materials used in compliance with SABS standards and NATIONAL BUILDING REGULATIONS ACT 103 of 1977 and amendments thereto as well as the by-laws of the relevant local authority.
All new construction HEALTH AND SAFETY Regulations to be strictly complied with.

Revision History

Rev. No.	By	Revision	Date
A	SNK	Changed sound m. doors, reduced curves in MFL, repositioned door in MFL, adjusted ceiling height in to 3.1m in sound m.	2021/10/21
B	SNK	Removed sound dampers in Control Rm in Sound Rm.	2021/11/02
C	SNK	Added new floor finish in Robotics Lab	2021/11/10
D	SNK	Fire signages added	2021/11/16

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Client
NATIONAL FILM AND VIDEO FOUNDATION

Architect
BLACK VISION CONSULTANTS
39 HILLSIDE DRIVE BLUE RIDGE
QUEENSTOWN
EASTERN CAPE
5520

Project Name
REFURBISHMENT OF THE EASTERN CAPE FILM HUB

33 CHURCH STREET
EAST LONDON
Issued For

TENDERING

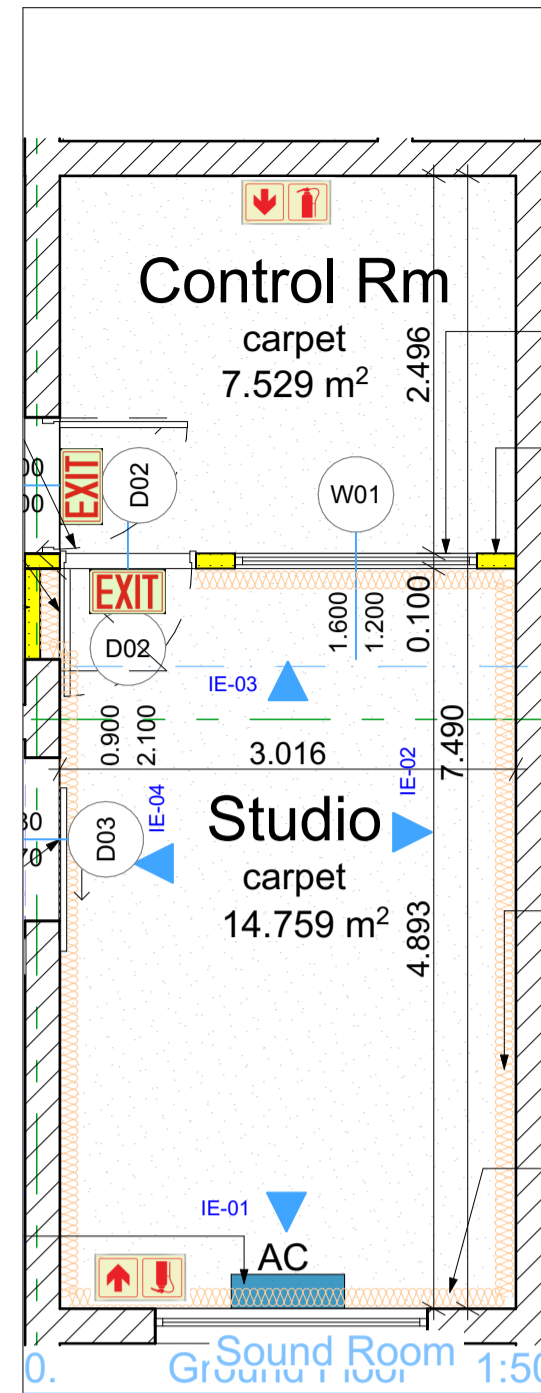
Drawing Information
Building Section, South Elevation, North Elevation, Roof Plan

Drawing Status
CONSTRUCTION DRAWINGS

Modified by SNK Date 15/10/2021
Checked by SNK Date 15/10/2021

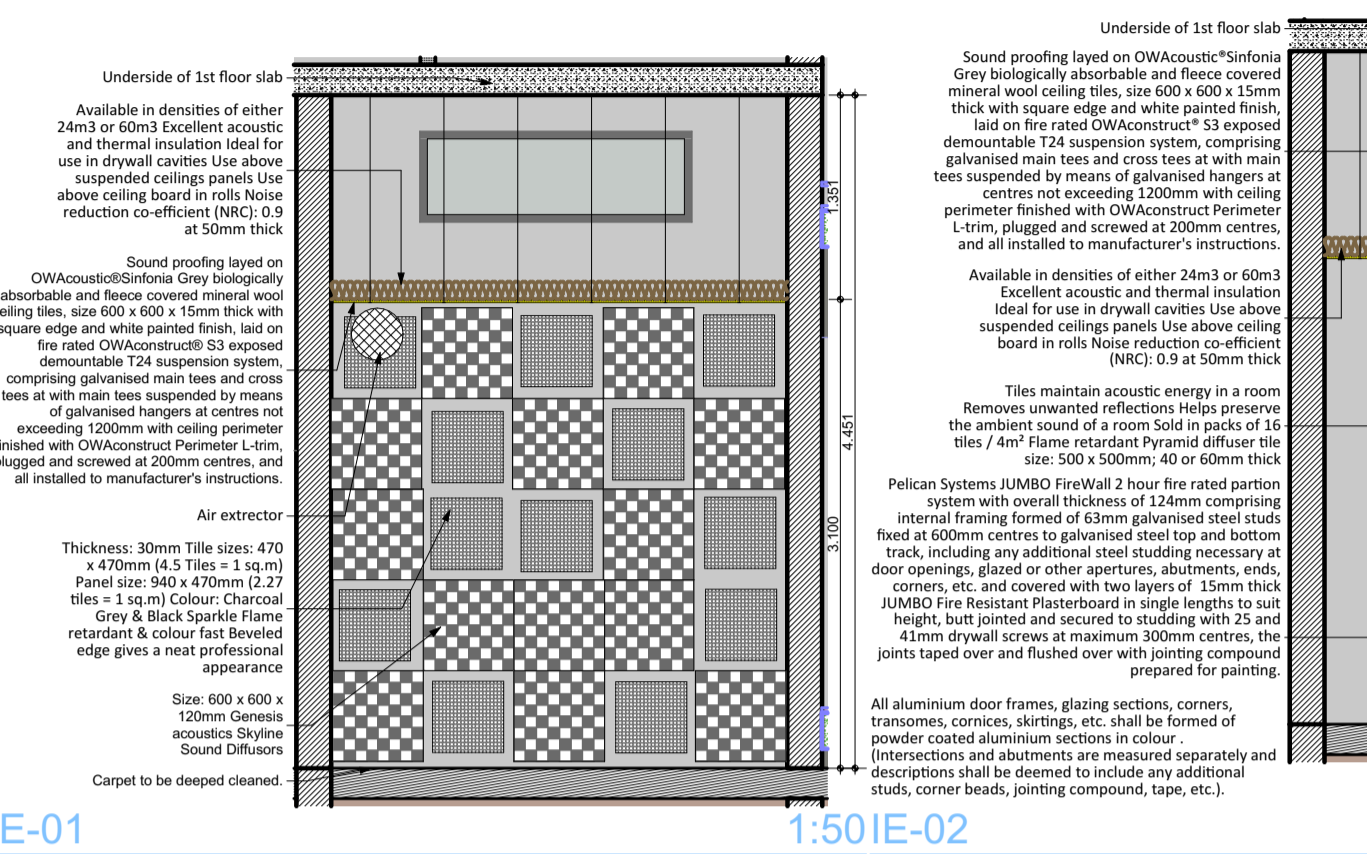
Project No 16
Drawing Scale 1:100

Layout ID **A.01.2** Revision **D**



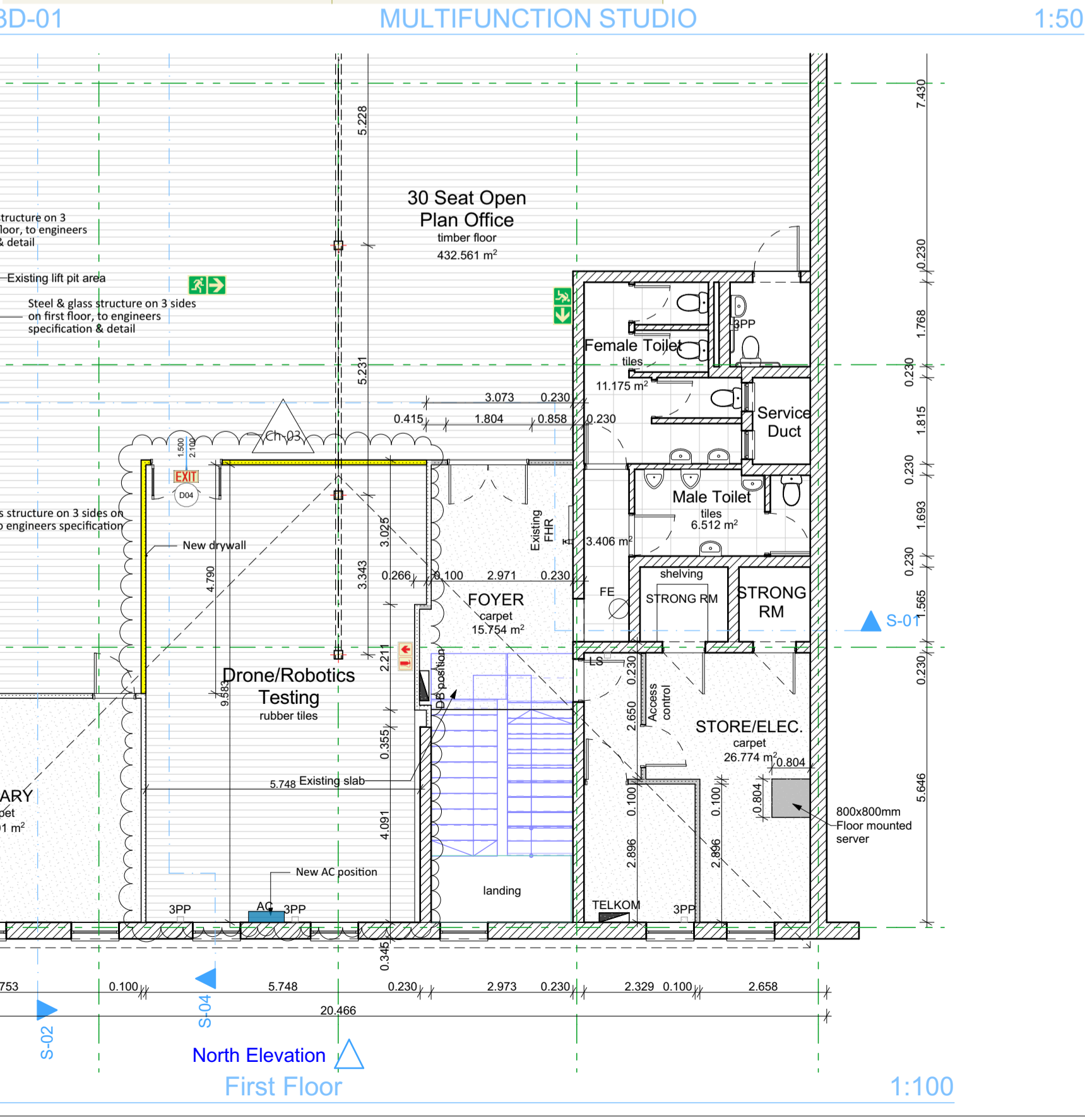
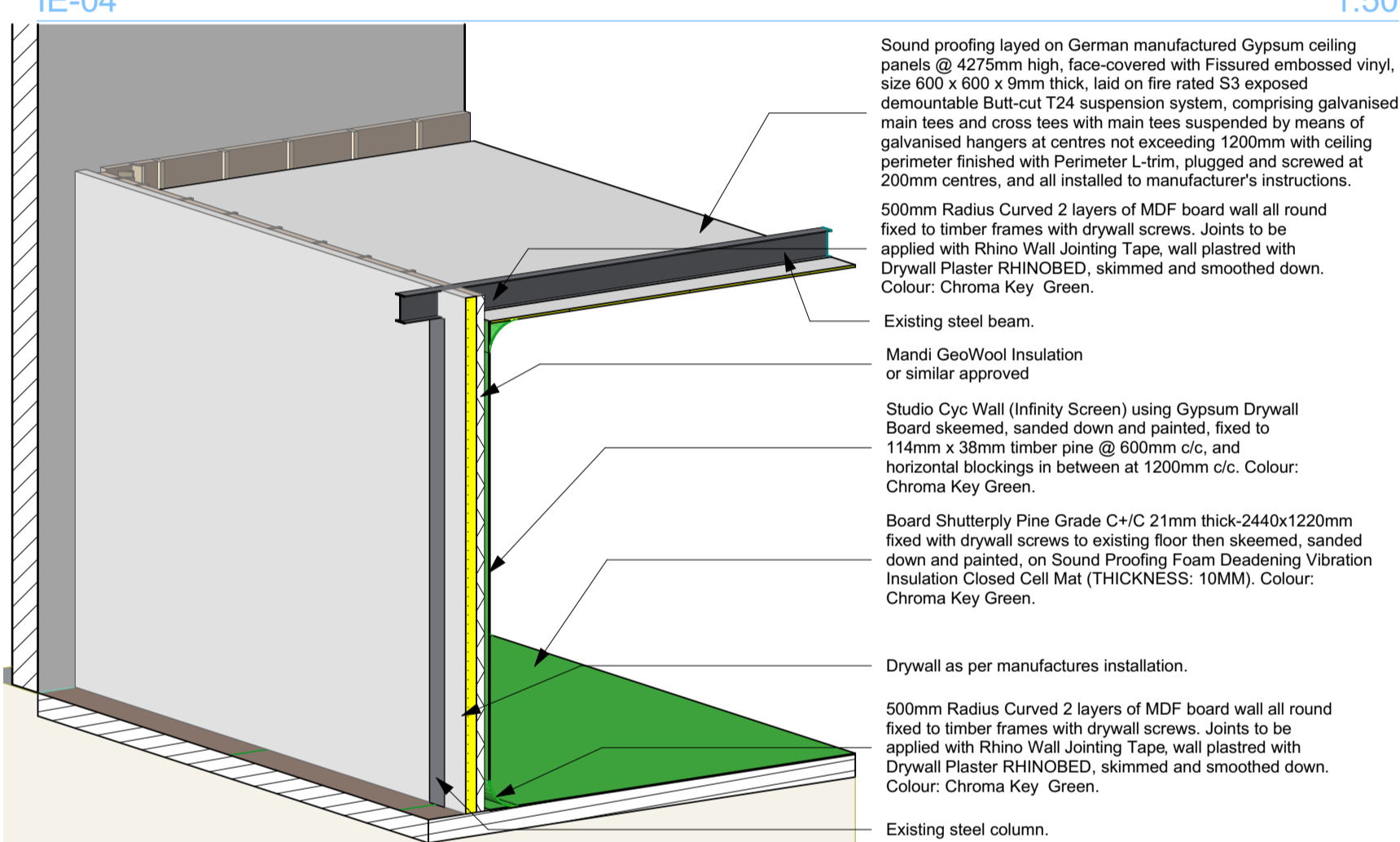
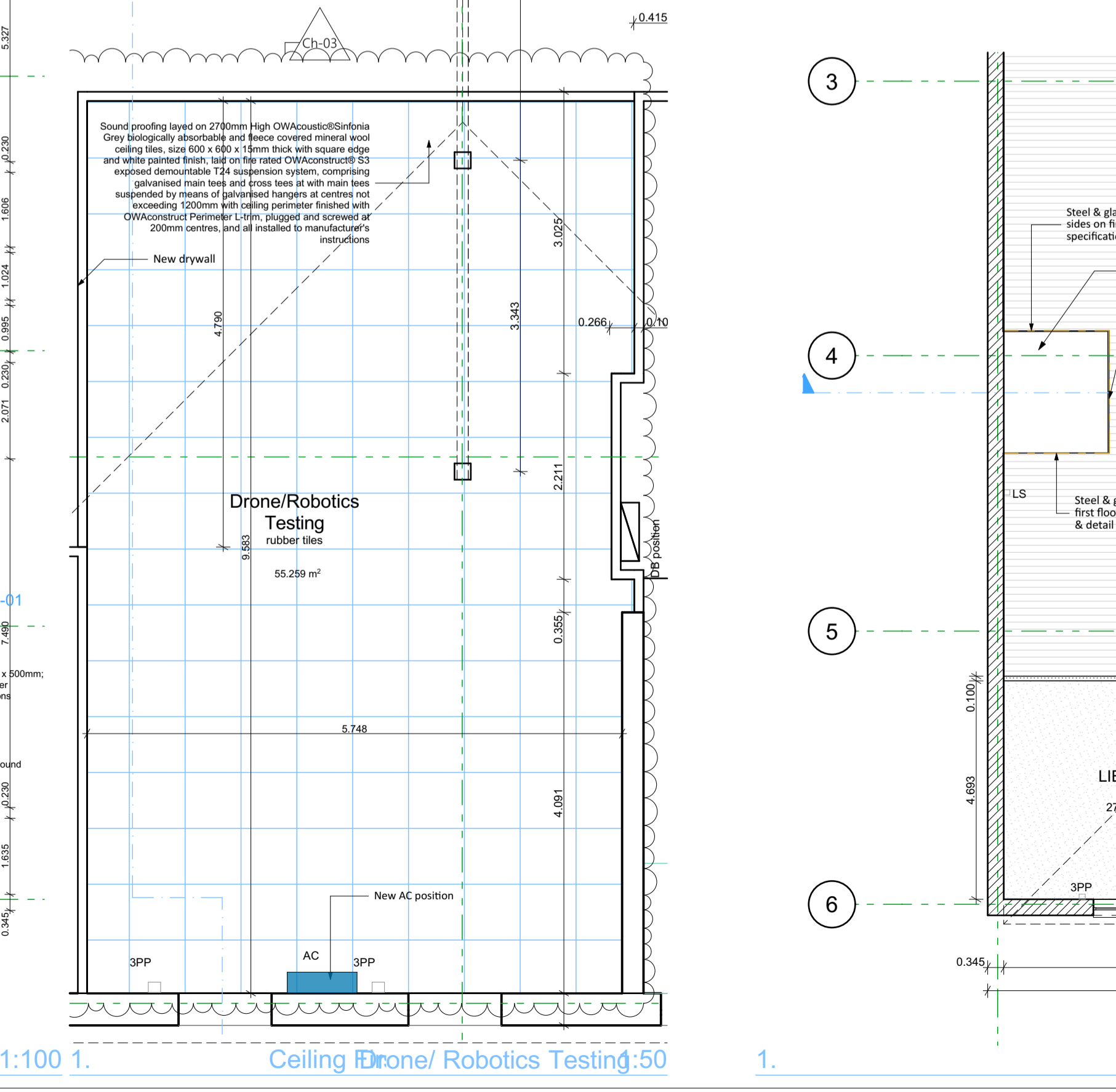
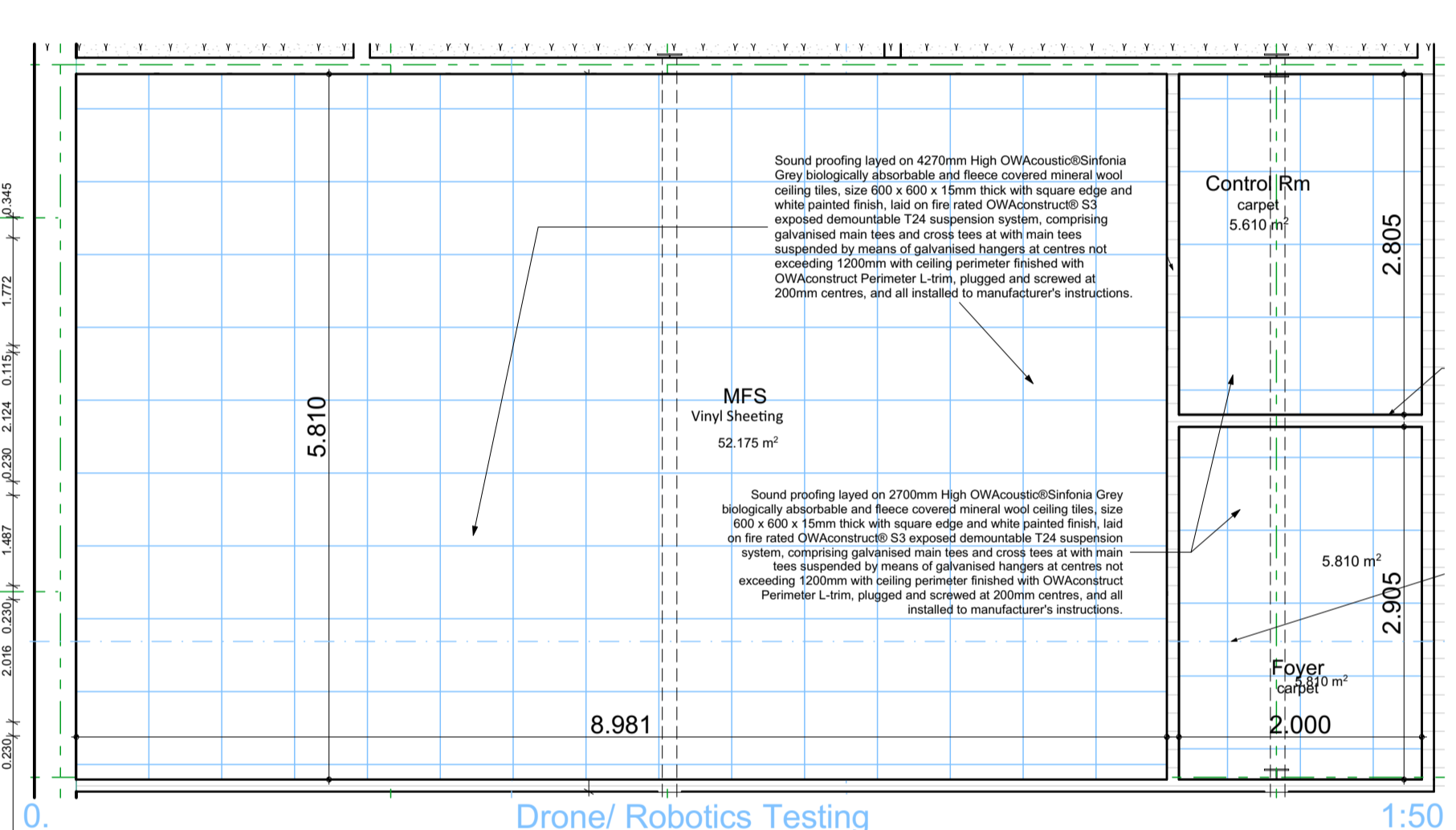
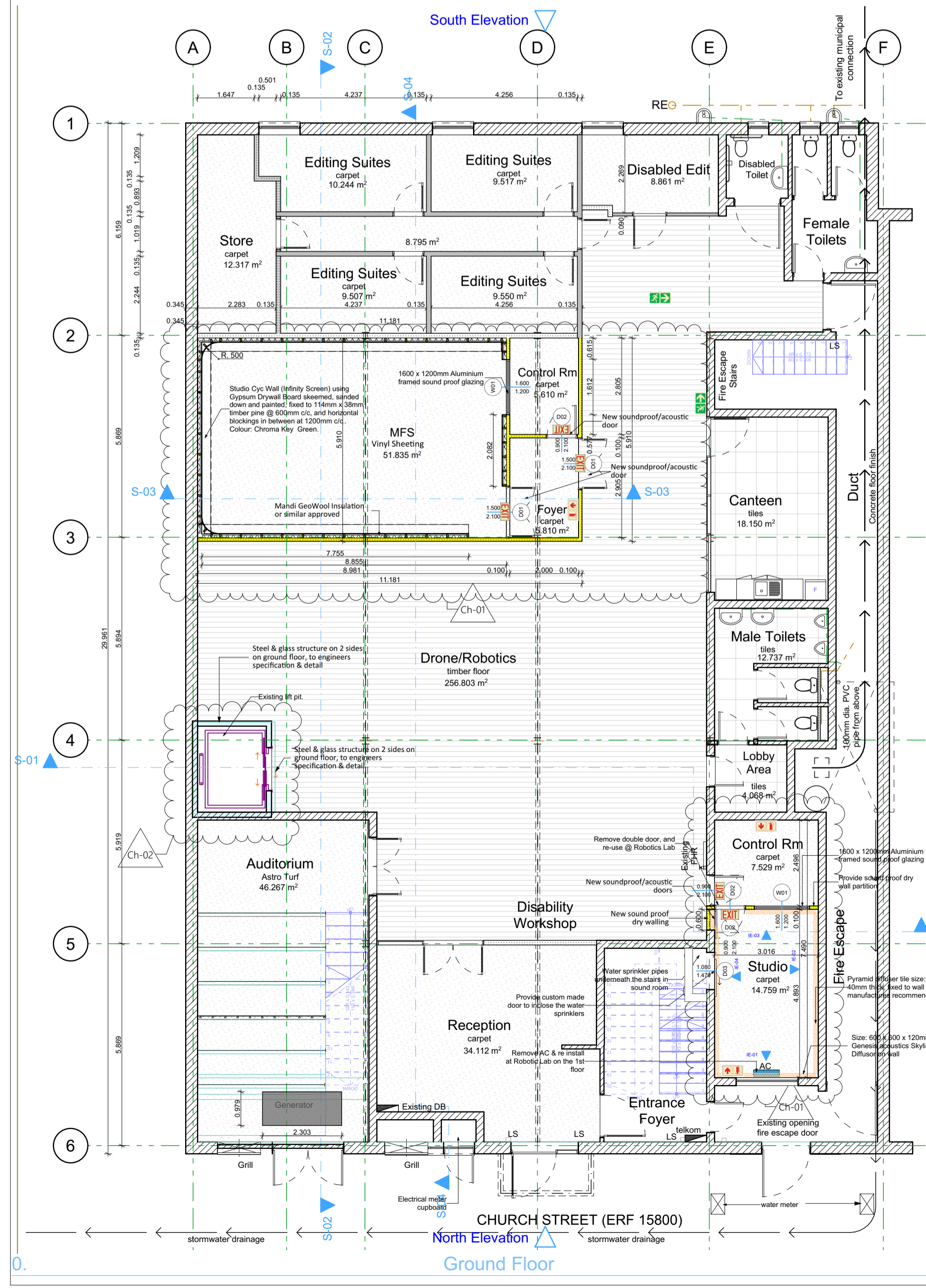
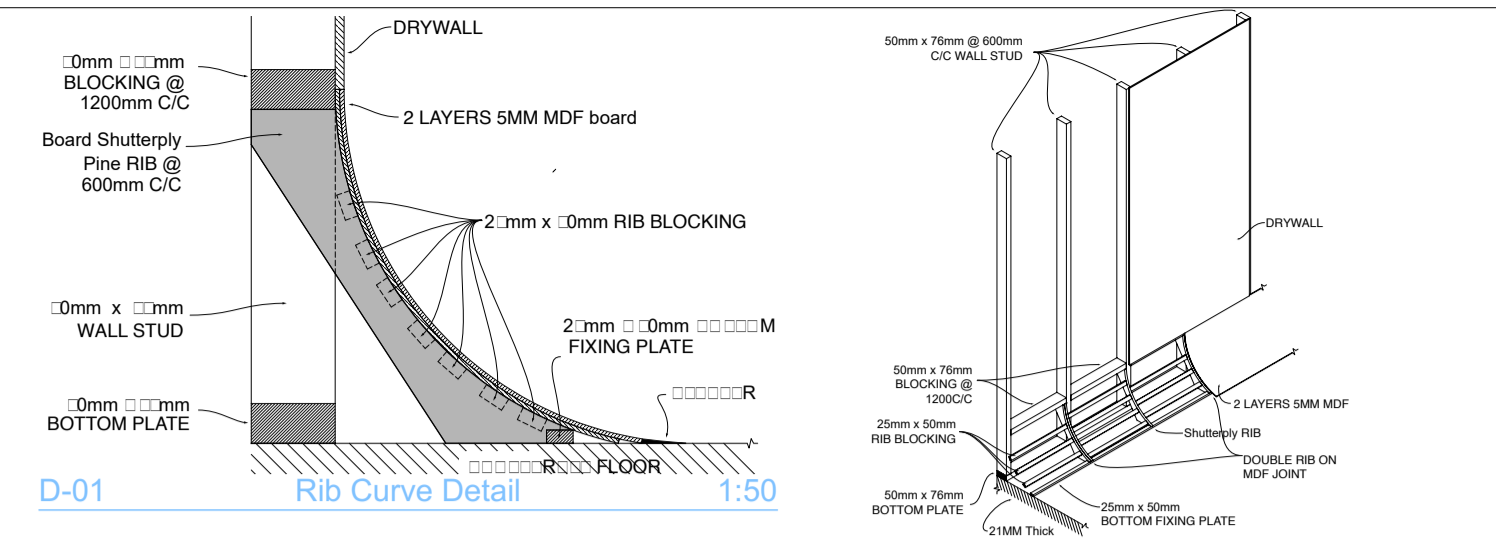
SPECIFICATIONS:

- Thickness: 30mm Tiles size: 470 x 470mm (4.5 Tiles = 1 sq.m) Colour: Charcoal Grey & Black Sparkle Flame retardant & colour fast Revolved edge gives a neat professional appearance
- Available in densities of either 24m³ or 60m³ Excellent acoustic and thermal insulation ideal for use in drywall cavities Use above suspended ceilings panels Use above ceiling board in rolls Noise reduction co-efficient (NRC): 0.9 at 500mm thick
- Size: 600 x 600 x 120mm Genesis acoustics Skyline Sound Diffusers
- Available in densities of either 24m³ or 60m³ Excellent acoustic and thermal insulation ideal for use in drywall cavities Use above suspended ceilings panels Use above ceiling board in rolls Noise reduction co-efficient (NRC): 0.9 at 500mm thick
- Sound Proofing Foam Deadenning Vibration Insulation Closed Cell Mat (THICKNESS: 10MM)



FIRE & EXIT SIGNAGE:

- E1 - SABS Running Man & Arrow Left and Right Photoluminescent Sign (Glow In The Dark) - 190x380mm Available size 190x380mm on 0.9mm ABS plastic.
- Photoluminescent (Glow In The Dark) signs are highly visible in the dark.
- F13 - SABS Arrow Down & Fire Extinguisher Photoluminescent Sign (Glow In The Dark) - 190x380mm Available size 190x380mm on 0.9mm ABS plastic.
- Photoluminescent (Glow In The Dark) signs are highly visible in the dark.



BLACK VISION CONSULTANTS
39 HILLSIDE DRIVE BLUE RIDGE QUEENSTOWN EASTERN CAPE 5520

Professional Team
Project Manager & Principal Agent: SITHOLESS AND PARTNERS
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paul@sitholess.co.za / paul@psgconsulting.co.za
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Mike Rickou - 083 543 2086
mike@hsc.co.za

Mechanical / Electrical Engineer: LUKHOZI CONSULTING ENGINEERS
Bruce Mafili - 073 796 9069
b.mafili@lukhozi.co.za
Clive Albrecht - 083 701 2454
c.albrecht@lukhozi.co.za

Client: NATIONAL FILM AND VIDEO FOUNDATION
national film and video foundation

Architect: BLACK VISION CONSULTANTS
39 HILLSIDE DRIVE BLUE RIDGE QUEENSTOWN EASTERN CAPE 5520

Project Name: REFURBISHMENT OF THE EASTERN CAPE FILM HUB
33 CHURCH STREET EAST LONDON
Issued For: **TENDERING**

Drawing Information: Ground Floor, First Floor, Ceiling First Floor, MULTIFUNCTION STUDIO, Rib Curve Detail

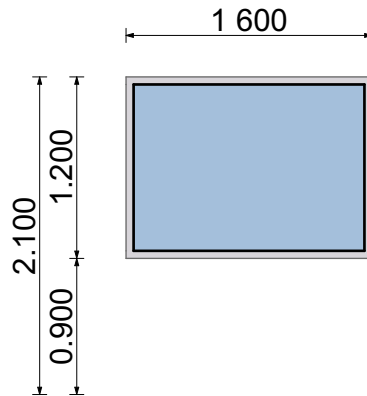
Drawing Status: CONSTRUCTION DRAWINGS

Modified by: SNK Date: 15/10/2021
Checked by: SNK Date: 15/10/2021

Project No: 16
Drawing Scale: 1:100, 1:50, 1:267.66

Layout ID: A.01.1
Revision: D

NOTE: Dimensions shown are actual brickwork opening sizes.
All dimensions to be checked and verified on site prior to manufacture.



MFS CONTROL ROOM / SOUND ROOM

Quantity: 02 pieces
POSITION: As per plan.
Contractor to check floor plans for LH/RH openings.

W01

DESCRIPTION:

Wispeco Aluminium fixed pane aluminium window, size 1600 x 1200mm able to withstand wind pressures of 1500Pa in accordance with SANS 613 with surfaces to receive 60-80µm Matt Charcoal powder coating (for architectural applications), applied by a certified markholder of SANS 1578 and SANS 1796, glazing shall be executed strictly in conformance with glass manufacturer's recommendations and all in accordance with the National Building Regulations Parts B, N, T, SANS 10137, SANS 10400 and SANS 1263, fitted in accordance with Wispeco Casement 28 system, plugged and screwed to brickwork or concrete.

WINDOW FINISH:

IRONMONGERY:

GLAZING:

6.76mm laminate acoustic glass (single glaze)

ARCHITECT:

BLACK VISION CONSULTANTS

39 Hillside Drive Blue Rise
Queenstown
5320



Modified by

SNK

Date
2021/10/29

Checked by

SNK

Date
2021/11/01

Issued For

TENDERING

Drawing Name

Window Schedules

Drawing Status

CONSTRUCTION DRAWINGS

CLIENT:

NATIONAL FILM AND VIDEO FOUNDATION

39 Hillside Drive Blue Rise
Queenstown
5320



national film and video foundation
SOUTH AFRICA
in service of the Department of Sports, Arts and Culture

REFURBISHMENT OF THE EASTERN CAPE FILM HUB

33 CHURCH STREET
EAST LONDON
5240

Drawing Scale




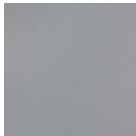
1:50


Layout ID

A.02.2.1




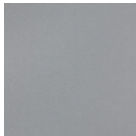
Revision


FINISHING SCHEDULE

	FLOORS	WALLS	CEILINGS
	COVERING		COVERING FINISH
	<p>Board Shutterfly Pine Grade C+/C 21mm thick-2440x1220mm fixed with drywall screws to existing floor then sanded, sanded down and painted, on Sound Proofing Foam Deadening Vibration Insulation Closed Cell Mat (THICKNESS: 10MM). Colour: Chroma Key Green</p>  <p>DESSO Excel tufted loop pile carpet tiles colour: 9980 with Polypropylene woven - Sandwich backing, overall size 400 x 400 x 7.4mm thick, laid in pressure sensitive adhesive, all installed by approved installer in accordance to EN 1307.</p>  <p>Multi-Floor Interlocking PVC Tiles - Black (500 x 500 x 5.2mm)</p>	<p>Plascon Professional Superior Low Sheen to interior new rhinolite.</p> <p>Surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Superior Low Sheen (PEM 1000) with 1 hour drying time between coats, for a maintenance cycle of 7 years in a C5 - coastal/marine environment.</p> <ul style="list-style-type: none"> • Environment : C5 - coastal/marine • Topcoat : Professional Superior Low Sheen • Number of coats of topcoat : two coats • Overcoating time for topcoat : 1.00 hour • Primer/Base coat : Professional Plaster Primer • Overcoating time for primer/base coat : 16.00 hour • Specification document : NW205t. 	<p>OWAcoustic@Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white OWAconstruct@ S3 painted finish, laid on fire rated OWAconstruct@ S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.</p> 
● Multifunton Studio			
● MFS	●		●
● Control Room	●	●	●
● Foya	●	●	●
● Sound Room			
● Control Room			●

	Drawing Title FINISHING SCHEDULE 1		Drawing Number	Drawn By
	Project National Film And Video Foundation (NFVF)		Date 2021-11-19	Revision
	Architect Black Vision Consultants	Phone 0825325441	Fax 0862182772	Email blackvisionconsultants@gmail.c

FINISHING SCHEDULE

	FLOORS	WALLS	CEILINGS	
	COVERING		COVERING	
			FINISH	
	<p>Board Shutterfly Pine Grade C+/C 21mm thick-2440x1220mm fixed with drywall screws to existing floor then skinned, sanded down and painted, on Sound Proofing Foam Deadening Vibration Insulation Closed Cell Mat (THICKNESS: 10MM). Colour: Chroma Key Green</p>  <p>DESSO Excel tufted loop pile carpet tiles colour: 9980 with Polypropylene woven - Sandwich backing, overall size 400 x 400 x 7.4mm thick, laid in pressure sensitive adhesive, all installed by approved installer in accordance to EN 1307.</p>  <p>Multi-Floor Interlocking PVC Tiles - Black (500 x 500 x 5.2mm)</p>	<p>Plascon Professional Superior Low Sheen to interior new rhinolite.</p> <p>Surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Superior Low Sheen (PEM 1000) with 1 hour drying time between coats, for a maintenance cycle of 7 years in a C5 - coastal/marine environment.</p> <ul style="list-style-type: none"> • Environment : C5 - coastal/marine • Topcoat : Professional Superior Low Sheen • Number of coats of topcoat : two coats • Overcoating time for topcoat : 1.00 hour • Primer/Base coat : Professional Plaster Primer • Overcoating time for primer/base coat : 16.00 hour • Specification document : NW205t. 	<p>OWAcoustic@Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white OWAconstruct@ S3 painted finish, laid on fire rated OWAconstruct@ S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.</p> 	<p>OWAcoustic@Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct@ S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.</p>
● Studio			●	
● Robotics Lab		●	●	

	Drawing Title FINISHING SCHEDULE 1	Drawing Number	Drawn By
	Project National Film And Video Foundation (NFVF)	Date 2021-11-19	Revision
	Architect Black Vision Consultants	Phone 0825325441	Fax 0862182772



Specification

FOR

[No Works Description]

AT

[No Site Description]

FOR

[Unspecified Employer]

DATE

2021/11/19

PREPARED BY

Black Vision Consultants

39 Hillside Drive Blue Rise

Phone: 0825325441

Fax: 0862182772

E-Mail: [blackvisionconsultants@gmail.c](mailto:blackvisionconsultants@gmail.com)

- 1 Multifuntion Studio..... 3
 - 1.1 MFS 3
 - 1.2 Control Room 3
 - 1.3 Foya..... 4
- 2 Sound Room..... 5
 - 2.1 Control Room 5
 - 2.2 Studio 5
- 3 Robotics Lab 5

1 Multifuntion Studio

1.1 MFS

a) Board Shutterply Pine Grade

- i) Board Shutterply Pine Grade C+/C 21mm thick-2440x1220mm fixed with drywall screws to existing floor then skeemed, sanded down and painted, on Sound Proofing Foam Deadening Vibration Insulation Closed Cell Mat (THICKNESS: 10MM). Colour: Chroma Key Green

b) OWA Ceiling Systems acoustic ceilings

- i) OWAacoustic®Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct® S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.

1.2 Control Room

a) DESSO Broadloom

- i) DESSO Excel tufted loop pile carpet tiles colour 9980 with Polypropylene woven - Sandwich backing, overall size 400 x 400 x 7.4mm thick, laid in pressure sensitive adhesive, all installed by approved installer in accordance to EN 1307.

b) Plascon Paint to new surfaces

- i) Plascon Professional Superior Low Sheen to interior new rhinolite.
Surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Superior Low Sheen (PEM 1000) with 1 hour drying time between coats, for a maintenance cycle of 7 years in a C5 - coastal/marine environment.
 - Environment : C5 - coastal/marine
 - Topcoat : Professional Superior Low Sheen

- Number of coats of topcoat : two coats
- Overcoating time for topcoat : 1.00 hour
- Primer/Base coat : Professional Plaster Primer
- Overcoating time for primer/base coat : 16.00 hour
- Specification document : NW205t.

c) OWA Ceiling Systems acoustic ceilings

- i) OWAacoustic®Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct® S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.

1.3 Foya

a) DESSO Broadloom

- i) DESSO Excel tufted loop pile carpet tiles colour 9980 with Polypropylene woven - Sandwich backing, overall size 400 x 400 x 7.4mm thick, laid in pressure sensitive adhesive, all installed by approved installer in accordance to EN 1307.

b) Plascon Paint to new surfaces

- i) Plascon Professional Superior Low Sheen to interior new rhinolite.
Surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Superior Low Sheen (PEM 1000) with 1 hour drying time between coats, for a maintenance cycle of 7 years in a C5 - coastal/marine environment.
 - Environment : C5 - coastal/marine
 - Topcoat : Professional Superior Low Sheen
 - Number of coats of topcoat : two coats
 - Overcoating time for topcoat : 1.00 hour
 - Primer/Base coat : Professional Plaster Primer
 - Overcoating time for primer/base coat : 16.00 hour
 - Specification document : NW205t.

c) OWA Ceiling Systems acoustic ceilings

- i) OWAacoustic®Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct® S3 exposed demountable T24 suspension system, comprising

galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.

2 Sound Room

2.1 Control Room

a) OWA Ceiling Systems acoustic ceilings

- i) OWAcooustic®Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct® S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.

2.2 Studio

a) OWA Ceiling Systems acoustic ceilings

- i) OWAcooustic®Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct® S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.

3 Robotics Lab

a) FloorworX Rubber Flooring

- i) Multi-Flor Interlocking PVC Tiles - Black (500 x 500 x 5.2mm)

b) Plascon Paint to new surfaces

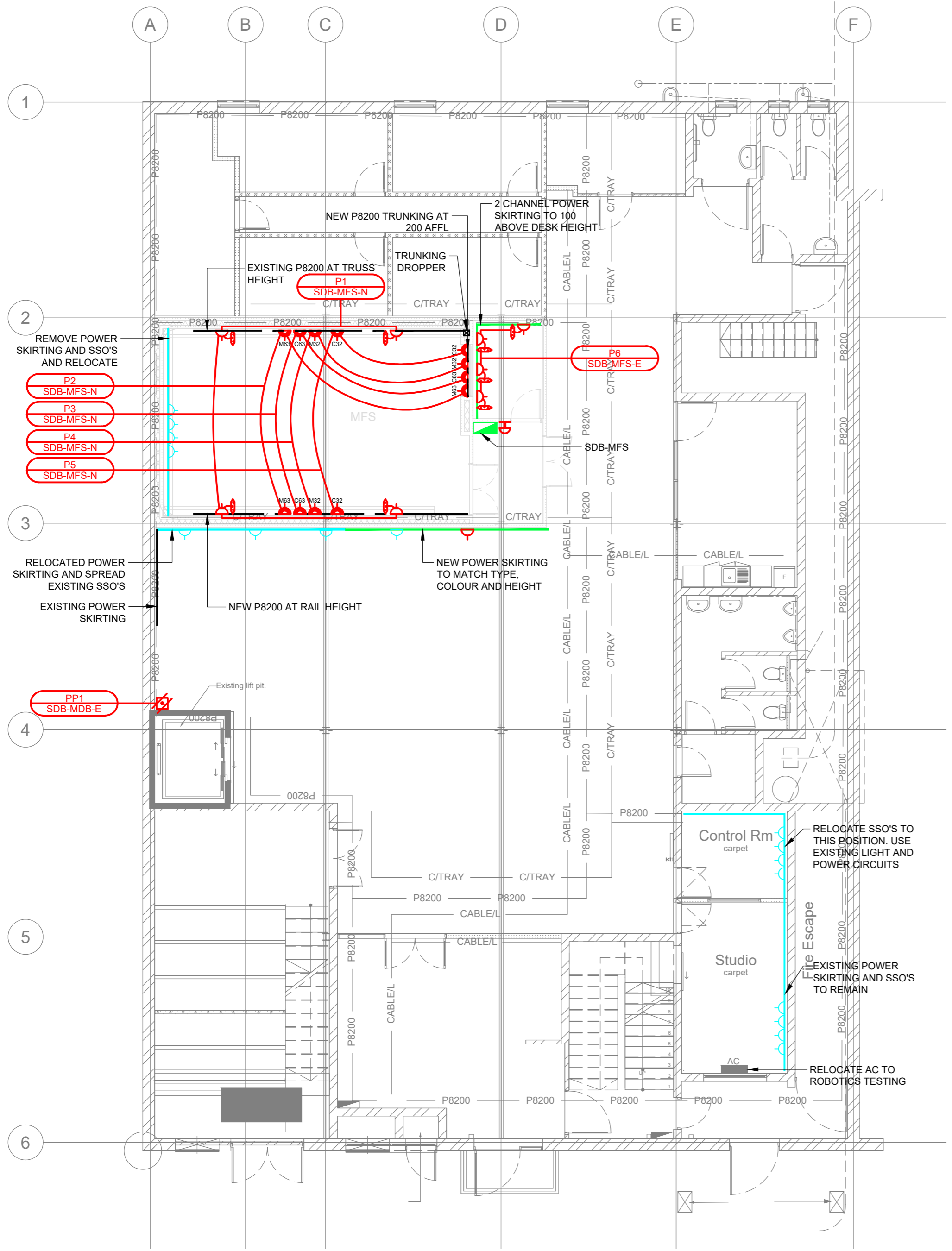
- i) Plascon Professional Superior Low Sheen to interior new rhinolite.
Surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Superior Low Sheen

(PEM 1000) with 1 hour drying time between coats, for a maintenance cycle of 7 years in a C5 - coastal/marine environment.

- Environment : C5 - coastal/marine
- Topcoat : Professional Superior Low Sheen
- Number of coats of topcoat : two coats
- Overcoating time for topcoat : 1.00 hour
- Primer/Base coat : Professional Plaster Primer
- Overcoating time for primer/base coat : 16.00 hour
- Specification document : NW205t.

c) OWA Ceiling Systems acoustic ceilings

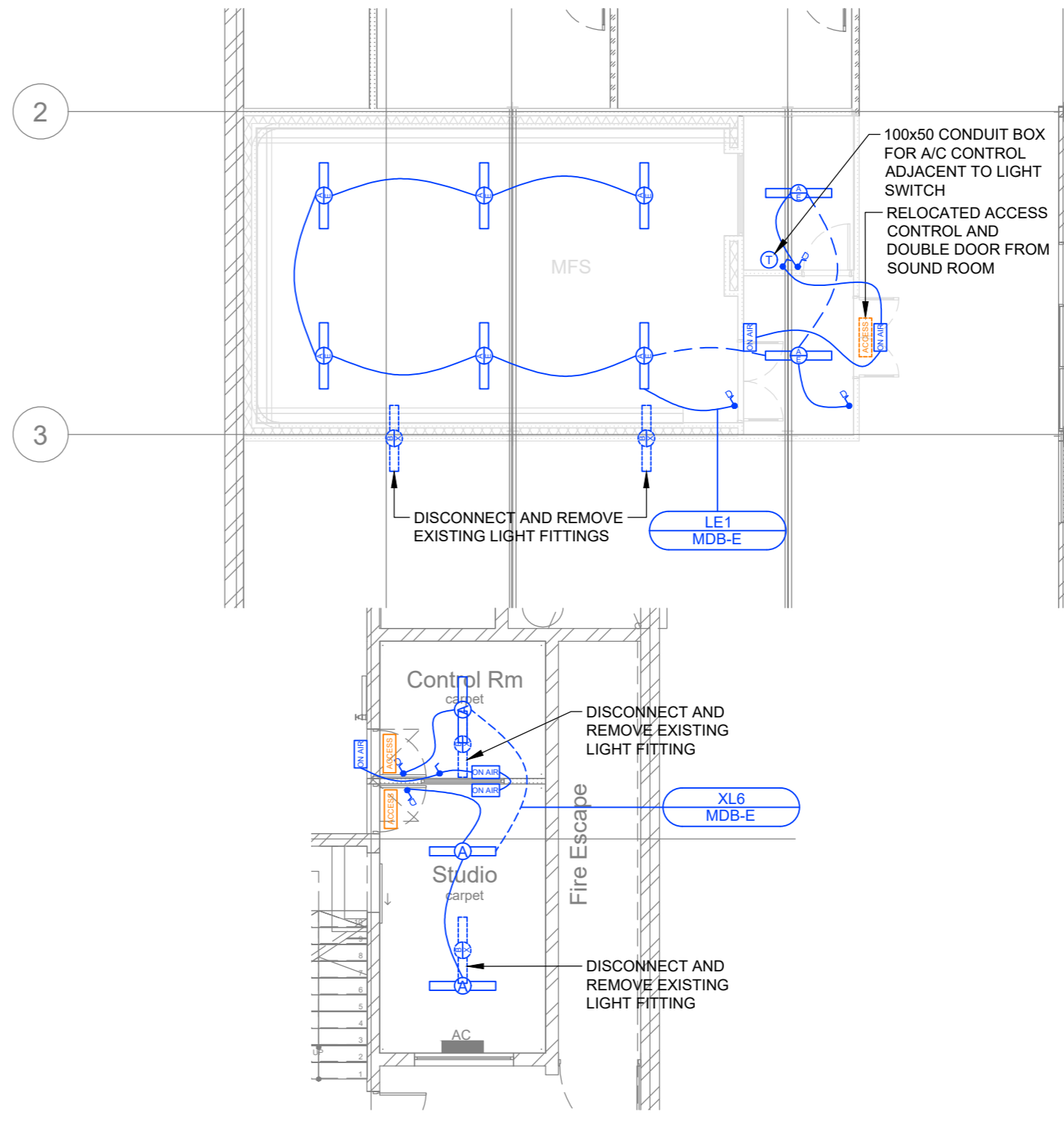
- i) OWAacoustic® Sinfonia Grey biologically absorbable and fleece covered mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct® S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.



GROUND FLOOR POWER LAYOUT
SCALE 1:100

LEGEND

M63	63A 5 PIN MARECHAL SOCKET 3 PHASE
C32	63A 4 PIN CEE SOCKET 3 PHASE
M32	32A 5 PIN MARECHAL SOCKET 3 PHASE
C22	32A 4 PIN CEE SOCKET 3 PHASE
HS	16A COMBINED 164-1 AND 164-2
ES	EMERGENCY STOP BUTTON LOCK IN OFF POSITION
LD	1200 LONG x 40W LED SURFACE WITH DIMMER UNIT. EMERGENCY BATTERY 20% FOR 1 HOUR
LA	1200 LONG x 40W LED SURFACE WITH DIMMER UNIT
DS	DIMMABLE SWITCHES
AW	3W LED WALL MOUNT ABOVE DOOR
ACC	NEW ACCESS POINTS COMPRISES OF 16A SSO, BIOMETRIC READER, MAGNETIC DOOR LOCK AND PUSH BUTTON RELEASE
SDB-MFS	SDB-MFS N/E REFER TO SINGLE LINE DIAGRAMS
NSK	NEW POWER SKIRTING



GROUND FLOOR LIGHTING LAYOUT
SCALE 1:100

GENERAL NOTES

ALL NEW ACCESS CONTROL POINTS TO BE WIRED FROM THE EXISTING ACCESS CONTROL CIRCUIT XP11 IN MDB-E

No	AMENDMENTS	DATE

TO	ISSUED FOR TENDER	11-11-2021
SURVEYED	-	-
DRAWN	W.ADAMS	OCT 2021
DESIGNED	C.ALBRECHT	OCT 2021
CHECKED	C.ALBRECHT	OCT 2021
APPROVED	<i>[Signature]</i> PR REGISTRATION NO. ECSA 9070087 DATE 15/11/2021	

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LUKHOZI CONSULTING ENGINEERS (PTY) LTD
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TEL - 043 721 1321 FAX - 086 663 7202
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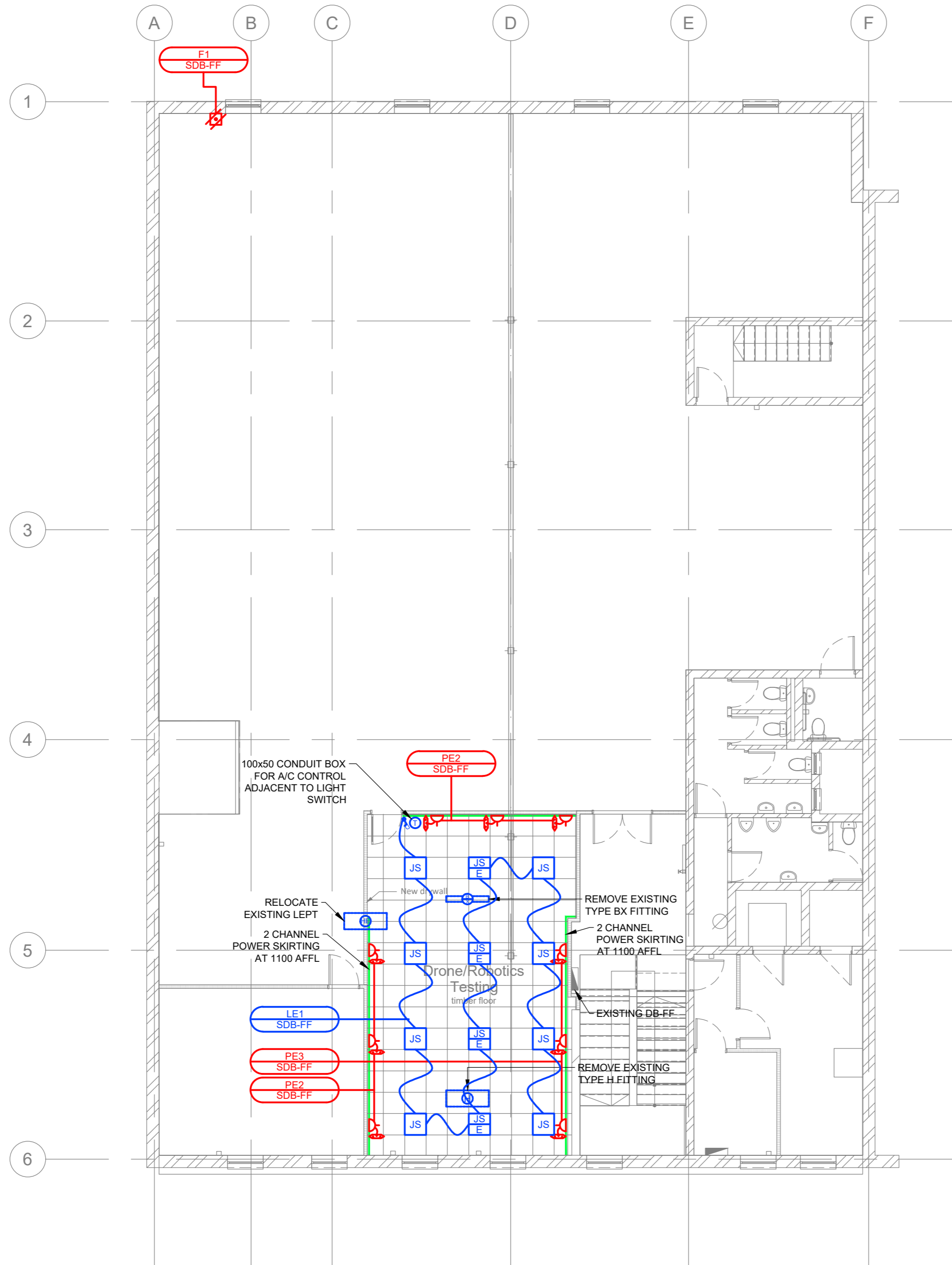
BLACK VISION CONSULTANTS
Architects | Project Managers | Interior Design

PROJECT TITLE
REFURBISHMENT OF THE EASTERN CAPE FILM HUB

DRAWING TITLE
ADDITIONS TO EXISTING GROUND FLOOR LIGHTING AND POWER LAYOUT

SCALE	1:100	SHEET SET	SHEET 1 OF 1 SHEETS	SHEET SIZE	A2
DRAWING No.	1698-ELE-LP-001			REVISION	T0

P:\EL1698 National Film & Video Foundation - M&E Renovations\04 Design & Drawings\12 Electrical\1698-ELE.dwg



LEGEND	
	63A 5 PIN MARECHAL SOCKET 3 PHASE
	63A 4 PIN CEE SOCKET 3 PHASE
	32A 5 PIN MARECHAL SOCKET 3 PHASE
	32A 4 PIN CEE SOCKET 3 PHASE
	16A COMBINED 164-1 AND 164-2
	EMERGENCY STOP BUTTON LOCK IN OFF POSITION
	27W LED PANEL RECESSED 600x600 TO MATCH EXISTING
	TYPE JS WITH 1 HOUR BATTERY BACKUP AT 20%
	DIMMABLE SWITCHES
	3W LED WALL MOUNT ABOVE DOOR
	NEW ACCESS POINTS COMPRISES OF 16A SSO, BIOMETRIC READER, MAGNETIC DOOR LOCK AND PUSH BUTTON RELEASE
	SDB-MFS N/E REFER TO SINGLE LINE DIAGRAMS
	NEW POWER SKIRTING

GENERAL NOTES

No	AMENDMENTS	DATE

TO	ISSUED FOR TENDER	11-11-2021
SURVEYED	-	-
DRAWN	W.ADAMS	OCT 2021
DESIGNED	C.ALBRECHT	OCT 2021
CHECKED	C.ALBRECHT	OCT 2021

APPROVED

PR REGISTRATION NO. ECSA 9070087 DATE 15/11/2021

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E-MAIL: el@lukhozi.co.za

CLIENT

an agency of the Department of Sports, Arts and Culture

Architects | Project Managers | Interior Design

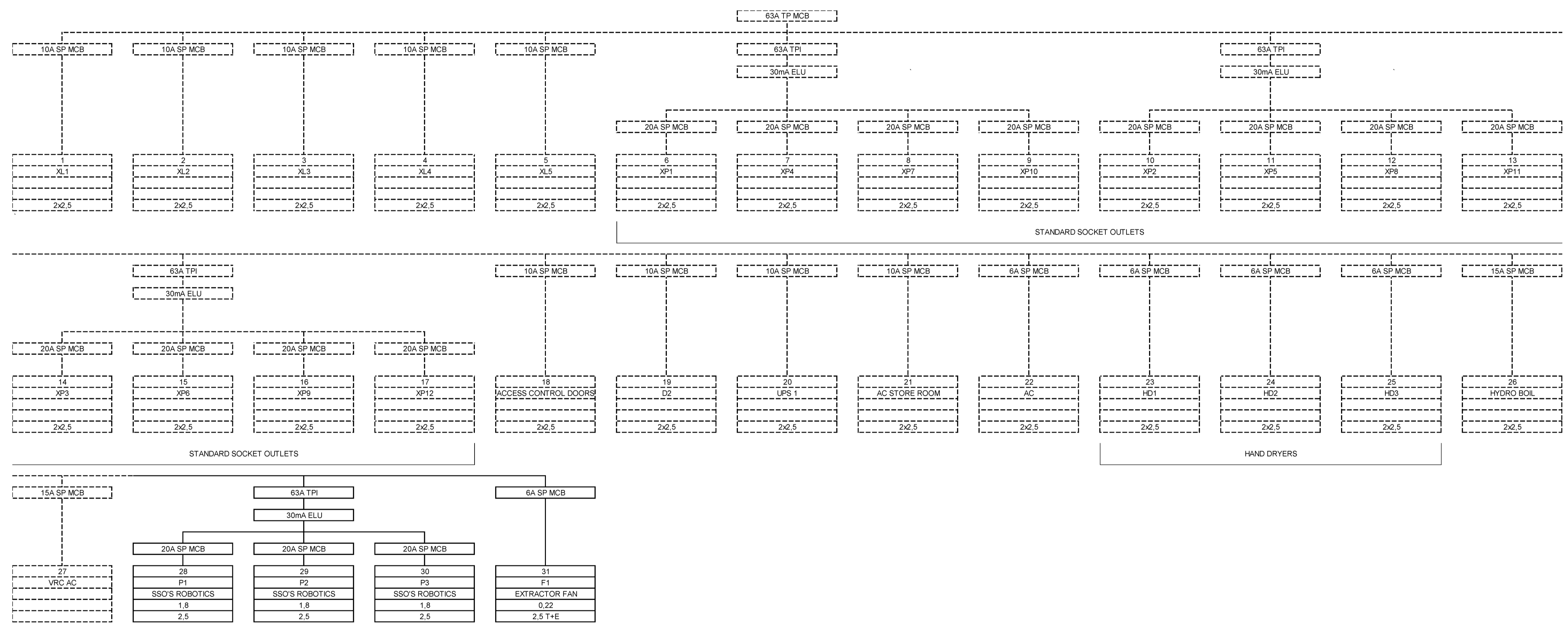
PROJECT TITLE

REFURBISHMENT OF THE EASTERN CAPE FILM HUB

DRAWING TITLE

ADDITIONS TO EXISTING FIRST FLOOR LIGHTING AND POWER LAYOUT

SCALE	SHEET SET	SHEET SIZE
1 : 100	SHEET 1 OF 1 SHEETS	A2
DRAWING No.	REVISION	
1698-ELE-LP-002	T0	



- NOTES:
 1. DOTTED LINES INDICATE EXISTING RECORDED CIRCUITS
 2. SOLID LINES INDICATE NEW CIRCUIT ADDITIONS

No	AMENDMENTS	DATE
TO	ISSUE FOR TENDER	11-11-2021
SURVEYED	-	-
DRAWN	W. ADAMS	OCT 2021
DESIGNED	C.ALBRECHT	OCT 2021
CHECKED	C.ALBRECHT	OCT 2021
APPROVED		
	PR REGISTRATION NO. ECSA 9070087 DATE 15/11/2021	

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 E-MAIL: e@lukhozi.co.za

SDB-FF-N	DB NAME
WHITE	DB COLOUR
SURFACE	DB FIXING
TBA	CONNECTED LOAD
TBA	DIVERSIFIED LOAD
10	FAULT LEVEL (kA)
MDB-E	FED FROM
80	FEEDER MCB (Amps)
4x16	FEEDER CABLE mm ²

CLIENT

national film and video foundation
 SOUTH AFRICA
 an agency of the Department of Sport, Arts and Culture

BLACK VISION CONSULTANTS
 Architects | Project Managers | Interior Design

PROJECT TITLE		
REFURBISHMENT OF THE EASTERN CAPE FILM HUB		
DRAWING TITLE		
DISTRIBUTION BOARD SDB-FF-N ADDITIONAL CIRCUITS SINGLE LINE DIAGRAM		
SCALE	SHEET SET	SHEET SIZE
N.T.S	SHEET 1 OF 1 SHEETS	A1
DRAWING No.		REVISION
1698-ELE-SLD-004		T0

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INSTITUTION:

NATIONAL FILM AND VIDEO FOUNDATION - PHASE 2

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SCHEDULE 1:PRELIMINARY & GENERAL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.1	Compliance with General Conditions of Contract : Insurances, Assurances, Sureties, Allowances, etc. CONTRACT PERIOD 6 MONTHS THEREFORE NO TIME RELATED P&G				
1.1.1	Fixed	Sum	1		
1.2	Installation to Main Contractors programme including cleaning up daily during to final				
1.2.1	Fixed	Sum	1		
1.3	Contract Management and supervision of the Works including attendance of site meetings (2 per month)				
1.3.1	Fixed	Sum	1		
1.4	Compliance with Construction Regulations, Health and Safety Act and any other statutory regulations.	Sum	1		
1.5	Guarantee and maintenance for the new section of Electrical Installation including fittings, materials and workmanship for a period of TWELVE MONTHS after date of Works Completion.	Sum	1		
1.6	Allow for testing, balancing and commissioning the whole of the electrical installation as laid down in the specification and for re-testing as may be required after the making good of all defective work to the satisfaction of the Department and the Engineer.	Sum	1		
1.7	Provision of Certificates of Compliance for the Electrical Installation.	Sum	1		
1.8	Provision for record drawings showing all deviations from the construction drawings, etc.	Sum	1		
1.9	All relevant items covered in the Main Contract Preambles	Sum	1		
1.10	Any additional item not specifically mentioned or included in the Bills of Quantities which the Tenderer may wish to detail.	Sum	1		
1.11	Staff training of facility operator	Sum	1		
	<u>Detail below:</u>				
TOTAL BILL NO.1 TO PRICE SUMMARY					

INSTITUTION :

NATIONAL FILM AND VIDEO FOUNDATION - PHASE 2

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SCHEDULE 2 : DISTRIBUTION AND DISTRIBUTION BOARDS

Item	Spec Ref	Description	Unit	Qty	Supply Rate	Install Rate	Total Amount
2.1	2.4	DISTRIBUTION BOARDS & SWITCHGEAR Supply, delivery and installation of switchboards with padlockable doors, main switch to be accessible with the door in the locked position. Include all earth, neutral bars, wiring and fixings etc.. All to SANS 10142, 1765 & 60439-3. Refer to SLD's for details					
		NOTE : All equipment to be SABS approved and bear the SABS performance mark					
2.1.1	2.4	Disconnect and by-pass existing automatic change-over unit	no	1			
2.1.2		Connect mains and generator to manual change-over switch SLD-001	no	1			
2.1.3		Connect MDB-E to manual change-over switch SLD-001	no	1			
2.1.4		Connect SDB-MFS to manual change-over switch SLD-001	no	1			
2.1.5		Supply and install SDB - MFS as per SLD Multi-Function Studio SLD-003	no	1			
2.1.6		Supply and install 15A SP MCB in MDB - E for Lift SLD-002	no	1			
2.1.7		Supply and install 30A TP Slow Curve MCB in MDB - E for AC unit on roof SLD-002	no	2			
2.1.8		Supply and install 63A DP Earth Leakage Isolator in SDB - FF SLD-004	no	1			
2.1.9		Supply and install 20 SP MCB in SDB - FF for robotics SSO's SLD-004	no	3			
2.1.10		Supply and install 10A SP MCB in SDB - FF for robotics lighting SLD-004	no	1			
2.1.11		Supply and install 6A SP MCB in SDB - FF for extract fan SLD-004	no	1			
2.1.12		Supply and install 60Amp kiloWattHr meter on generator supply main in MDB	no	1			
2.1.13	2.3	Check and test MDB - E and SDB - FF	no	2			
2.1.14		Supply and install 0-100A maximum demand indicating ammeters on each phase on each of generator and MDB-E including all auxiliary equipment	no	6			
2.2		DISTRIBUTION CABLING Allow for the following LV (1000V) cables. All LV cables- PVC/PVC/SWA/PVC/ECC laid in trenches, fixed surface on cable tray or ladder or in sleeves as shown on the drawings including wastage					
2.2.1		16mm ² conductor to connect all ends of change-over switch	m	20			
2.2.2		4c/16mm ² ECC cable from change-over switch to SDB-MFS	m	25			
2.2.3		4c/6mm ² ECC Cable from SMB - E to AC unit on roof slab	m	35			
2.2.6		3c/2.5mm ² Twin and earth from MDB - E to Lift Panel SDB - FF to fan fixed on existing wireways.	m	60			
2.3		CABLE TERMINATIONS Terminations to include glands and shrouds, lugs and all fixing materials required					
2.3.1		16mm ² conductors	no	32			
2.3.2		4c/16mm ² ECC cable	no	2			
2.3.3		4c/6mm ² ECC Cable	no	1			
2.3.5		3c/2.5mm ² Twin and earth	no	8			
Sub-total carried forward to Price Summary							

SCHEDULE 3 : LIGHTING AND POWER

Item	Spec Ref	Description	Unit	Qty	Supply Rate	Install Rate	Total Amount
		Complete Electrical Installation as measured below and specified in the specification and drawings including all incidentals, fixing materials, fixtures and fittings required to complete the installation to a professional standard. TO MATCH EXISTING FITTINGS WHERE POSSIBLE					
3.1		LIGHT FITTINGS					
		Including fixing and connecting					
3.1.1		Type BE - 16W round bulkhead with battery backup 20% for 1 hour	no	1			
3.1.2		Type EXS - Emergency exit sign single sided to match existing	no	3			
3.1.3		Type AE - 40W dimmable 1200long surface fitting with 1hour battery backup at 20%	no	9			
3.1.4		Type JS - 27W 600 x 600 recessed LED dimmable panel	no	8			
3.1.5		Type JS - 27W 600 x 600 recessed LED dimmable panel with 1hour battery backup at 20%	no	4			
3.1.6		Relocate existing 1200long fittings as shown on the drawings and rewire	no	7			
3.1.7		Type OA - 5W one sided ON AIR light similar to Type EXS	no	4			
3.2		LIGHT SWITCHES					
		Supply, install and connect switches complete with fixing materials similar or approved equal to Crabtree Classic Range					
		16 Amp 250V grade light switches complete with all necessary connections, labelling, screws, cover plates, etc. as specified including supply, installation and connection					
3.2.1		Single lever 1 way switch	no	2			
3.2.2		Single lever 1 way switch with 500W dimmer unit	no	6			
3.3		SWITCHED SOCKET OUTLETS					
		Supply, install and connect socket outlets complete with fixing materials to match existing fittings similar or approved equal to Crabtree Classic Range.					
3.3.1		New COMBINATION 16 Amp 3-pin/164-2 sockets normal or shaved pin in 100 x 100 surface box	no	9			
3.3.2		5A SANS 164-2 Socket outlet on round box	no	21			
3.3.3		164-2 16A socket outlets in power skirting (Euro)	no	13			
3.3.4		164-1 16A socket outlets in power skirting (RSA)	no	14			
3.3.5		Combo 164/1-164/2 Surface mounted in 100 x 100 box	no	6			
3.3.6		RJ45 Data socket outlets in power skirting	no	3			
3.3.7		32A 3-phase surface mounted CEE socket outlet	no	4			
3.3.8		32A 3-phase 5-pin surface mounted Marechal socket outlet	no	5			
3.3.9		63A 3-phase surface mounted CEE socket outlet	no	3			
3.3.10		63A 3-phase 5-pin surface mounted Marechal socket outlet	no	5			
3.3.11		32A TP Surface IP65 lockable isolator HVAC	no	1			
3.3.12		16A DP surface mount lockable isolator	no	4			
3.3.13		Disconnect and relocate power skirting socket outlets	no	4			
3.4		DRAW WIRE					
3.4.1		16 swg galvanised	m	100			
3.5		BARE COPPER EARTH WIRE					
		Wired tied to cables installed in the above scheduled cables including terminations					
3.5.1		1.5 mm ²	m	300			
3.5.2		2.5 mm ²	m	800			
3.5.3		4 mm ²	m	60			
3.5.4		6 mm ²	m	10			
		Sub-total carried forward to next page					

SCHEDULE 3 : LIGHTING AND POWER

Item	Spec Ref	Description	Unit	Qty	Supply Rate	Install Rate	Total Amount
		Brought forward from previous page					
		Complete Electrical Installation as measured below and specified in the specification and drawings including all incidentals, fixing materials, fixtures and fittings required to complete the installation to a professional standard					
3.6		TRUNKING, BASKET & POWER SKIRTING					
		Galvanised trunking complete with covers, splices, bends and fixing materials					
3.6.1		P2000	m	15			
3.6.2		P8200	m	30			
3.6.3		100mm 4mmØ wire mesh cable tray	m	30			
3.6.4		2-channel PVC power skirting	m	55			
3.6.5		2-channel PVC power skirting remove existing and relocate	m	5			
3.7		CONDUITS, WIRING AND ACCESSORIES					
		Supply and install SABS approved conduits, draw boxes, wall boxes, etc equipped with draw wire including: bending, threading, jointing, short lengths, couplings, bends, tees, saddles, etc. cast in concrete, brickwork or mounted on any surface or in ceiling void.					
		CONDUITS					
3.7.1		20mm PVC conduit	m	50			
3.7.2		20mm galvanised conduit	m	20			
3.7.3		25mm galvanised conduit	m	20			
		CONDUIT BOXES					
		Conduit boxes including fixing to conduit with necessary couplings, locknuts, adaptors, bushes, covers plates, etc. as specified.					
3.7.4		100 x 100 galvanised flush boxes	no	5			
3.7.5		100 x 100 PVC surface boxes	no	10			
3.7.6		100 x 50 galvanised flush boxes	no	8			
3.7.7		60mm Ø PVC conduit boxes	no	28			
3.7.8		65x65 flush boxes for fire break glass units	no	2			
3.8	2.7 & 2.8	EARTHING BONDING AND LIGHTNING PROTECTION					
		The whole installation must be earthed in accordance with SANS 10142, SANS 10313 and SANS 62305	sum	1			
3.9	2.4	GENERATOR					
3.9.1		Allow for servicing of the existing 40kVA FAW, Generator King, Model GK03-40 generator by an accredited FAW agency	sum	1			
		Sub-total carried forward to Price Summary					

SCHEDULE 4 : ACCESS CONTROL

Item	Spec Ref	Description	Unit	Qty	Supply Rate	Install Rate	Total Amount
4	2.15	Access control installation to match the existing system including all fittings and fixtures. Connect to existing LAN switch in office					
4.1		ZK Teco MA300 biometric/card reader - to match	no	4	-	-	
4.2		No Touch Exit button	no	4	-	-	
4.3		Emergency Break Glass (emergency maglock release)	no	4	-	-	
4.4		Bell 300kg Electronic Magnetic Door Lock	no	4	-	-	
4.5		Z Bracket for Magnetic Door Lock	no	4	-	-	
4.6		Battery backup power supply unit	no	4	-	-	
4.7		12VDC Battery 12AH minimum rating	no	4	-	-	
4.8		CAT6 Data Cabling from Access Control device to LAN Switch and Connections	no	100	-	-	
4.9		Remove existing ZK Teco MA300 access control device from sound room double door and relocate with double door to multi-function studio.	no	1			
4.10		Allow for miscellaneous	sum	1			
		For Information: Original installation by CAMSEC					
		Sub-total carried forward to Price Summary					

SCHEDULE 5 : CCTV INSTALLATION

Item	Spec Ref	Description	Unit	Qty	Supply Rate	Install Rate	Total Amount
5	2.14	CCTV camera installation to match the existing system including all fittings and fixtures. Connect to existing LAN switch in office					
5.1		Camera Hikvision 4MP IP Bullet or Dome Camera (supply and installation of new cameras)	no	4	-	-	
5.2		Cabling CAT6 data cabling for new IP cameras	m	200	-	-	
5.3		Terminations Terminations at cameras and existing 16 port POE data switch including all fittings and fixtures	ends	8	-	-	
5.4		Allowances Allowance for the possible relocation of existing cameras. Labour rates submitted under provisional summe to be used. Approval by the Engineer prior to installation. Fittings and cable as per rates provided in item 5.3 For Information: Original installation by CAMSEC	Sum	1			
Sub-total carried forward to Price Summary							

Item	Description	Unit	Qty	Supply Rate	Install Rate	Total Amount
	Extra Over for unscheduled works. Alternative may be utilized in full or in part. No expenditure will be allowed without the authority of the Engineer in writing.					
6.1	Day works (Provisional)					
	Cost of labour including for overheads, levies, leave, bonuses etc.					
6.1.1	Electrician	hrs	8			
6.1.2	Semi-skilled labourer	hrs	16			
6.1.3	Unskilled labourer	hrs	16			
6.4	Transport					
	Cost of transport and plant including for overheads, levies, fuel operators, insurance and supervision					
6.4.1	1 ton LDV	km	100			
6.4.1	1 Compactor	hrs	1			
6.5	Provisional Sums					
6.5.1	Unscheduled items	Sum	1	R30,000.00		
6.5.2	Contractor's markup	%	10%			
6.6	Studio Management and Operation Equipment					
6.6.1	Allowance for the supply and installation of equipment details TBA	Sum	1	R150,000.00		
6.6.2	Contractor's markup	%	10%			
6.7	Fuel					
6.7.1	Allowance for purchase, transporting to site and fuelin the generator	Sum	1	R4,500.00		
Sub-total carried forward to Price Summary						

INSTITUTION :
PRICE SUMMARY

NATIONAL FILM AND VIDEO FOUNDATION - PHASE 2

ELECTRICAL INSTALLATION

Each item in the schedule must be filled in.

Each price entered hereunder shall include for the supply and installation, inclusive of any taxes, (other than VAT) and duties applicable, installation, testing, commissioning, guarantee (with free maintenance during the guarantee period), and profit, excluding Builder's mark up and VAT.

SCHEDULE	DESCRIPTION		TENDER AMOUNT
1	Preliminary and General		
2	Distribution Boards & Cabling		
3	Lighting and power		
4	Access control		
5	CCTV Installation		
6	Provisional sums		
	Sub-total Schedules 1 to 5		
7	3% Contingency		
	Sub-total		
	TOTAL TENDERED AMOUNT (EX VAT) FOR ELECTRICAL INSTALLATION CARRIED TO FORM OF TENDER		

I,, on behalf of the Tenderer
 advise that I have read and priced the installation in accordance with the specifications, drawings and schedules of quantities and that I have satisfied myself that no discrepancies exist between the various documents and the drawings.

TENDERER'S NAME/STAMP

SIGNATURE

DATE

PART B

**NATIONAL FILM AND VIDEO FOUNDATION
FILM HUB – PHASE 2
ELECTRICAL INSTALLATION
NOVEMBER 2021**

Prepared for:
National Film and Video Foundation
The Hub
33 Church Street
Eastern Cape
EAST LONDON
5201

Prepared by:
LUKHOZI CONSULTING ENGINEERS (PTY) LTD
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Contact Person: Mr Clive Albrecht
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NAME OF TENDERER

TENDERERS CIDB CRS No.:

**NATIONAL FILM AND VIDEO FOUNDATION
FILM HUB – PHASE 2
ELECTRICAL INSTALLATION
NOVEMBER 2021**

CONTENTS

- Part 1 General Electrical Specification
- Part 2 Detailed Electrical Specification
- Part 3 Standard Technical Specifications
- Part 4 Returnable Schedules
- Part 5 Pricing Instructions and Schedules of Quantities

**NATIONAL FILM AND VIDEO FOUNDATION
FILM HUB – PHASE 2
ELECTRICAL INSTALLATION
NOVEMBER 2021**

PART 1 – GENERAL ELECTRICAL INSTALLATION

CONTENT

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PART 1 – GENERAL PROJECT SPECIFICATION

1.1 SCOPE OF WORK

The work covered by this Contract comprises the complete electrical installation, (including a 12-month defects liability period), as further detailed below in Part 2 of this specification.

1.2 INSPECTION OF SITE

Tenderers are advised to thoroughly acquaint themselves with the nature and extent of work to be done and to make allowance for items obviously intended and necessary for the proper completion of the Works, although not specified. Claims due to lack of knowledge will not be entertained.

1.3 COMPLIANCE WITH REGULATIONS, STANDARDS AND CODES

- The Contractor shall arrange for the necessary inspection and testing after completion of the Works. All notices, fees, including inspection and re-inspection are the responsibility of the Contractor and all relevant costs shall be borne by him.
- Any items not specified, but reasonably assumed to be necessary, for the completion of the Works to be recognised standards of workmanship and practice, shall be deemed to be included in the Contract.
- The workmanship throughout the Works shall be to the satisfaction of relevant codes of practice and the Employer. Any materials or workmanship considered to be faulty or incorrectly or inadequately erected or repaired shall be substituted, altered or rectified to the satisfaction of the Employer without additional costs to the Employer.
- The Contractor shall adhere to all the relevant regulations, standards and codes specified in Part 5 of this document.

1.4 SUPERVISION

- The work shall, at all times, and for the duration of the contract, be carried out under the supervision of a competent representative of the Contractor.
- The representative of the Contractor shall be able and authorised to receive and carry out instructions on behalf of the Contractor.

1.5 SAMPLES AND ALTERNATIVES

- The preferred manufacturer / makers of equipment and / or material are as described in either the Project Specification, the Standard Technical Specifications or as listed in the Schedule of Quantities.
- The Employer reserves the right to specify the equipment and / or materials utilised in the Works. **No** alternatives to equipment and / or materials are to be used unless written approval is obtained from the Employer or his Representative.

1.6 DEFINITIONS

- Supply - To purchase or procure and delivery complete with all necessary and additional specified accessories.
- Erect - To place or mount and fix in position
- Install - To erect, connect up and commission, complete with related accessories.
- Indicated/shown/Noted - As indicated or shown on drawings.
- Approved/Alternative - Approved in writing by the Engineer
- Similar, Equal - Equal or better in efficiency of performance and compatibility

1.7 CONFLICT BETWEEN SPECIFICATIONS, SCHEDULES OF QUANTITIES AND DRAWINGS

- The Tender drawings must be read in conjunction with the detailed specification and the Schedules of Quantities. Any conflict shall be considered in the following order of priority:
 - i. Project Detailed Specifications

- ii. Drawings
- iii. Standard Technical Specifications
- iv. Schedules of Quantities
- Any discrepancies found must be reported to the Engineer prior to the closing of tenders. Failure to comply will be taken that all requirements have been met and no variations will be accepted.

1.8 DRAWINGS

- Tender drawings are issued with this document. These are for information purposes and are to be read in conjunction with the Schedules of Quantities that form the basis of the tender. Any obvious discrepancies found are to be brought to the attention of the Engineer prior to the submission of the tender.
- The Electrical Contractor shall read the electrical drawings in conjunction with the Architects and other Engineers drawings in order to ensure the correct positioning of outlets, plant and equipment.
- Where room data sheets are provided the Electrical Contractor shall use these as a means of identifying and co-ordinating the electrical installation with the other services. He shall advise the Engineer of any discrepancies between the room data sheets, electrical and other services drawings prior to installation.
- The Electrical Contractor shall provide record drawings as specified in the Conditions of Contract.

1.9 WIRING

- All wiring shall have copper conductors.
- All cabling in open wireways shall be fitted with identifying cable tags to distinguish the different communications systems from each other.
- Where regulations require, cables are to be fire retardant.

1.10 MOVING OF EQUIPMENT

The Contractor shall investigate each space through which equipment must be moved. Where necessary, equipment shall be shipped in sections of size suitable for moving through spaces available.

1.11 MISCELLANEOUS

1.11.1 Labels and signage

- Labels and signage shall be installed as required in terms of the relevant codes of practice and as further specified in this document.
- All labels shall be in English. All labels on distribution boards shall be of ivory or plastic. Capital letters in black and on a white background shall be a minimum of 4mm in height. Labels shall preferably be riveted in place.
- The Contractor shall supply and install all danger, sub-station and safety notices and signs in terms of the relevant regulations. The construction symbols of safety signs shall comply with SANS 1186.
- All switches, socket outlets and power outlets shall be labelled. The labels shall show the DB and circuit numbers.

1.12 OPERATING INSTRUCTIONS, PARTS LISTS AND MAINTENANCE MANUALS

- The Contractor shall supply, after approval by the Engineer, three (3) bound sets of operating instructions, parts lists, maintenance manuals and as-built drawings showing final arrangements of the installation.
- The Contract will not be accepted as complete until these have been supplied.

1.13 BALANCING OF LOAD

The Electrical Subcontractor is required to balance the load as equally as possible over the multiphase supply during the construction period of the Contract.

The Electrical Subcontractor is then; to return to site at Final Completion to take current readings from all the distribution boards and balance the loads where necessary. This is to be done with the Electrical Engineer or the Electrical Engineer's Representative in attendance.

1.14 TESTING AND COMMISSIONING

- The Contractor shall carry out all tests required in terms of the relevant Acts, SABS Codes of Practice and Local Authority requirements.
- The Contractor shall provide all the equipment and apparatus required for the purpose of carrying out all necessary tests.
- If any part of the Works fails the test, the Contractor shall be responsible for rectifying, at his own cost, the defective Works and the re-testing thereof to ensure compliance.
- The Works shall be deemed to be practically complete when all tests, commissioning and inspection have been approved by the Engineer, and a Completion Advice Notice or other relevant completion notice is issued.

1.15 COMPULSORY FORMS AND CERTIFICATES

The Contractor shall submit the necessary commencement, compliance and completion forms for the installation as required in terms of the OHS Act, as amended, the relevant SABS Specifications and the requirements of the relevant Supply Authorities

1.16 MEASUREMENT

At no time is the Contractor to scale drawings or make any assumptions regarding dimensions. If in doubt, the Contractor is to obtain clarification from the Consulting Engineer or Architect.

1.17 VARIATION ORDERS

- Unless otherwise specified in the Conditions of Contract, variations shall be ordered and processed in one of the following ways:
 - i. Issue of a revised drawing
 - ii. By Principal Agent or his/her representative's Instruction

The Contractor shall ensure that the above procedures have been followed prior to carrying out any work. Failure to comply may invalidate any claim for work done.

- Unless otherwise agreed with the Engineer, all claims for variations shall be approved prior to proceeding with any work. The Contractor shall submit variation claims for approval at intervals of not less than 1 month.
- The Contractor shall only include the value of approved variation orders in any payment claim or invoice. Variations which have not been approved will be deducted from the claim in question

**NATIONAL FILM AND VIDEO FOUNDATION
FILM HUB – PHASE 2
ELECTRICAL INSTALLATION
NOVEMBER 2021**

PART 2 - DETAILED PROJECT SPECIFICATION

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PART 2 – DETAILED PROJECT SPECIFICATION

2.1 SCOPE OF WORK

Phase 2 of the contract comprises the addition of a multi-function studio (MFS), a robotics laboratory as well as modification an existing sound room and re-arrangement of existing lighting and socket outlets and the installation of additional HVAC equipment.

The electrical installation (inclusive of free maintenance during the 12 months defects liability period) comprises the modifications to existing distribution boards, new distribution board, change-over circuitry, relocation and/or removal of existing lighting and small power as well as new lighting and small power, connections for a lift and HVAC unit, relocation of existing access control equipment and the installation of new access control equipment.

TENDERERS ARE TO NOTE THAT THE DEFECTS LIABILITY PERIOD IS TWELVE (12) MONTHS COMMENCING AT THE ISSUE OF THE WORKS COMPLETION CERTIFICATE

2.2 EXISTING ELECTRICAL INFRASTRUCTURE

The building is supplied at 50kVA from the local Supply Authority.

A 40kVA generator has been installed as a back-up supply.

2.3 DISTRIBUTION BOARDS

There are two existing distribution boards which will be modified during phase 2, namely, MDB on the ground floor and SDB-FF on the first floor. These DB's are relatively new and appear to be in good condition. The Electrical Contractor shall inspect and test the MDB and SDB that will be modified as part of phase 2, including but not limited to:

- all connections
- all earth leakage units
- all circuit breakers for correct operation
- condition of the fascia panels
- condition of timers
- compliance with relevant Codes

and provide the Engineer with a full report on the findings and an itemised list of remedial items requiring attention. All repairs shall be done and claimed for using rates provided in the BOQ and where these are not available, proven cost plus 15%.

Additional circuits shall be added as necessary to provide electricity to emergency lighting and battery charger units.

The electrical contractor shall mark up any differences that are not recorded on the DB single line diagrams issued for the Engineer to update SLD's electronically and record drawings.

A new distribution board will be required to service specialised equipment in the new MFS as well as a new HVAC unit to service the MFS and adjacent editing rooms.

The legend cards in the affected DB's shall be updated to reflect the latest circuitry. Each circuit breaker shall be clearly numbered in accordance with the single line diagrams. Corresponding numbers and circuit descriptions shall be clearly printed or typed on the legend cards. All labels shall be in English and shall be a minimum of 4mm black capital letters on white ivorine. They shall be screwed or riveted to the metal work of the DB's.

Where not practical to provide ivorine labels and/or legend cards, stick on labels using an approved labelling machine and good quality weatherproof tape will be accepted.

All main isolators and breakers are to be clearly marked "MAIN SWITCH" and the necessary warning labels installed at the switch.

The Electrical Contractor shall supply and install on each phase on the Municipal Mains and Generator side of the panel 0-100A maximum demanding ammeters and associated CT's.

2.4 STANDBY AND CHANGE OVER

The existing 40kVA genset has an AMF unit. The genset is a FAW Generator King Model GK03-40. There is also an existing manual changeover switch.

The operation mode of the generator is to be changed as follows:

1. The genset will be the primary supply for the multi-function SDB – MFS
2. The municipal supply will be the primary supply for MDB – E
3. The genset can supply MDB- E in the event of a power failure **only** if the multi-function studio is not in operation.
4. The AMF unit must be disconnected and the genset manually started

The Electrical Contractor shall re-wire the system to ensure the above operational specification is achieved.

The Electrical Contractor shall have the genset serviced by the FAW accredited agency.

2.5 LIGHTING

The Electrical Contractor shall disconnect and remove light fittings as indicated on the drawings and hand them to the building owners.

The luminaires shown on the drawings and specified below are of the preferred type and manufacture. These luminaires, fittings and accessories shall be priced accordingly. The Tenderer may offer alternatives once the contract has been awarded providing a sample is supplied together with comparative specifications and approved in writing by the Engineer prior to ordering.

Additional escape route lighting has been provided and is to be connected to the existing circuits.

All lamp types shall be guaranteed for the full duration of the guarantee period and / or the stipulated lamp life, as stated by the lamp Manufacturers, whichever is the greater. Ballasts of fluorescent type fittings shall be of the electronic type, and shall bear the relevant SANS marks.

Drivers for LED luminaires shall be compliant with the following minimum specifications:

- 200V -250V input voltage
- > 0.95 power factor
- 100 000 hours nominal life
- Total harmonic distortion < 15%
- Surge protection 2kV
- Compliance with EN 55015 / EN 61000 / EN 61347 / EN 62384 / EN 61547 certificates to be provided

Colour rendering index on all fluorescent and LED lamps shall not exceed 4000°K

TYPE	DESCRIPTION	MAKE AND MODEL
BE	Round bulkhead fitting with housing manufactured from LM6 die cast aluminium and extruded aluminium. Powder coated finish on trim ring and body (trim white indoors and black outdoors). Opal acrylic diffuser is UV stabilised fitted with 16W LED 220v available in 3000K or 4000K. Driver 700mA. Lumen maintenance 50000h(L90B10). Gasket manufactured from post cured silicone rubber material. Silicone gaskets perform in a wide temperature range - 40 degrees C to +220°C. SABS Approved. IP66 with 1 hour battery backup @ 20% lumen output	Similar or approved equal to MAS/RBH/RS/LED/16W/220v/EMG/WHI TE/4000K
EXS	20W LED wall mounted single sided 1 hour maintained battery complete with wall mount bracket and charge indicating LED	ILM/EXT/RECT/LED/20W/EXIT/WM/EMG100%/1HR

AE	Channel manufactured from 0,8mm steel powder coated. Diffuser is PMMA semi-transparent. Light source dimmable 40W. Lumen maintenance L80 B10 50 000HRS, CRI>80, CCT3000k or 4000K with 30-minute battery backup @ 20% lumen output	ATL/SZN3/LED/40W-1200mm-4000K/EMG
JS	27W LED 600 x 600 dimmable recessed panel luminaire L80 B10 50 000HRS, CRI>80, CCT3000k or 4000K	
JSE	Same as type JS but with 30-minute battery backup @ 20% lumen output	

Where applicable occupancy sensors to be of the Ultrasonic 230V, recessed or surface, 30+ minutes RoHS & CEC Title 20/24 compliant, colour white

2.6 SWITCHES, SWITCHED SOCKET OUTLETS AND ISOLATORS

All new switches and switched socket outlets are to match existing Crabtree Classic units .

Light switches, unless otherwise indicated, shall be installed at 1100 mm AFFL, and shall be installed generally in positions as indicated. Where existing switch outlets are re-used, the existing heights are to be maintained.

All small and large power outlet points are to be installed generally in positions as indicated.

Normal power outlet points shall be white in colour; essential power outlet points, red in colour and uninterruptible power outlet points, blue in colour.

All externally mounted isolators to fixed equipment shall be suitably rated IP65 for the equipment load and shall have lockout facility in the OFF position.

Specialist 32A and 63A MARECHAL and CEE sockets shall be installed in the multi-function studio.

2.7 EARTHING

2.7.1 Earthing

There are existing earthing systems within the building.

The Electrical Contractor shall test the earthing and lightning protection systems and provide a written report on the findings and advise on the remedial works required to ensure that the entire installation is properly earthed in accordance with the relevant regulations.

The earthing system shall comply with SANS 10142 - 1987 and shall comprise a continuous main copper earth bar together with connections to all items of electrical, electronic and mechanical equipment.

Bonding of the earth system to metal work in buildings, concrete reinforcing, roofs or pipework, etc. shall also be supplied under this contract.

The clamping surfaces of all connections shall be properly tinned to prevent oxidation. Where different metals are joined the correct bi-metal clamps shall be applied.

Where earthing conductors are run on walls or vertical surfaces they shall be secured by "stand-off" bolted saddles at intervals not exceeding 1 200 mm.

Earth electrodes to be supplied and installed under this contract shall consist of 16 mm diameter extensible molecular bonded copper clad steel rods 1 800 mm long, complete with coupling and terminal. These electrodes shall comply with SANS 10199.

2.7.2 Surge Protection

All electrical distribution boards are to be fitted with surge protection, as is required by

the relevant regulations. A minimum of Class 2 surge protection is required.

2.8 LIGHTNING PROTECTION

There are existing earthing systems within the complex.

The Electrical Contractor shall test (or have tested by a specialist) all the lightning protection systems and provide a written report on the findings and advise on the remedial works required to ensure that the entire installation is properly earthed in accordance with the relevant regulations.

Should the Electrical Contractor require a specialist sub-contractor to undertake the inspection and any remedial works required he shall be responsible for the liaison with and co-ordination of the Specialist Sub-contractor appointed for the lightning protection system.

Below are general guidelines of what needs to be checked during the inspection as well as for any remedial works required.

General

Earthing systems to protect buildings against lightning shall be in accordance with SANS 10313 and 62561.

The components of the lightning protection system shall be installed such that they are not visible; surface mounting of the components shall be kept to an absolute minimum and only where absolutely necessary.

Roofs

Metallic roof sections shall be connected to down conductors to form the overall air termination network, and metallic gutters and drainpipes shall be bonded to this.

Non-metallic (e.g. concrete) sections of roofs shall be fitted with edge or ridge conductors of coastal quality aluminium alloy, which shall be bonded to steel reinforcing by means of bimetallic bonding terminals.

These conductors shall be supported by suitable cleats or clamps, which must allow for thermal expansion. The mounting thereof shall be such as to prevent corrosion due to direct contact with the concrete.

The air termination network shall be connected to the ground earth electrodes by down conductors.

Parts of the building, e.g. chimneys protruding above the general level of the roof shall be protected either by lightning masts or edge conductors, connected to the air termination network.

Down Conductors

The concrete reinforcing, steel columns or similar metal work in the walls of the building shall normally be used as down conductors, connected to the air termination network ground electrode systems through bonding terminals.

Where connected to reinforcing, these terminals shall be cast into the concrete and the reinforcing bars shall be bonded together with mild steel wire prior to casting the concrete.

Where separate external copper or aluminium down conductors are used these shall be bonded to the metal structure of the building to prevent flashing puncturing the concrete or brickwork.

There shall be a minimum of two down conductors (maximum spacing 30 m of building perimeter) preferably located at opposite building corners.

Down conductors shall be connected to the ground system with (if aluminium, bimetallic) bonding terminals 500 mm above ground level.

These terminals shall also be useable as test terminals. The down conductor shall be sleeved below the terminal to a depth of 400 mm below ground level by PVC pipe fixed to the building wall

Ground Earth Electrodes

The steel reinforcing in the foundation of the building shall be bonded to the ground electrode system.

The steel reinforcement of the building foundation slab shall be earthed by means of driven or pre-drilled rods prior to casting of the concrete. The reinforcing bars shall be bonded together with mild steel wire.

The ground earth electrode shall consist of a trench earth around the building with a single 70 mm² copper conductor or 25 mm x 3 mm strip, buried at a minimum depth of 1 000 mm not more than 1 000 from the building, unless necessary to increase locally to avoid pipes or other fixtures.

The conductor shall be buried in riddled earth to improve conductivity.

The earth resistance of the ground electrode shall not exceed 30 ohms when isolated from the rest of the low voltage electrical system and down leads and shall be supplemented as necessary with driven molecular bonded copper clad steel rods manufactured to SANS 10199.

2.9 CABLES

Unless otherwise specified, cables shall be armoured multi-core with integrated earth continuity conductors (ECC) with copper conductors. Galvanised armouring will NOT be accepted as an earth continuity path.

2.10 INSULATED WIRING & LV CABLING

The entire installation shall be wired using copper conductors to SANS 1507. Only armoured multicore power cables and un-armoured single power cables shall be used where multicore and single core cables are specified respectively. Flat twin and earth cables shall be permitted in ceiling voids and on cable trays for lighting and small power circuits, provided they are adequately supported by means of cable ties, cable clips and/or staples and are run neatly following roof trusses, bracing, purlins, cable trays or other structural elements.

2.11 CABLE TRAYS, BASKETS, LADDERS AND WIREWAYS

Perforated wiring tray, P8200 trunking and wire basket was fitted throughout the building. These wireways are to be utilised for the additional circuit runs where practical. and low voltage /data cables shall be run on separate trays.

Additional wireways have been measured the extension of existing wireways is required.

PVC conduits shall be used in ceiling voids, built into walls or chased into concrete slabs and structures.

Galvanized conduit shall be used in all exposed internal and external applications and fire detection wireways. All 100 x 100mm, 100 x 50mm and 60mmØ round boxes shall be galvanized.

2.12 POWER SKIRTING

Power skirting shall comply with SANS 01423 and TELKOM requirements. All power skirting shall be two compartment, two cover. Power skirting shall match the existing. Silicone shall be used to fill gaps between wall and power skirting. Power skirting in offices shall be installed at 100mm above desk top level unless otherwise specified.

2.13 HVAC INSTALLATION

A new VRV unit will be installed on the roof slab adjacent to an existing unit. The Electrical Contractor shall install a 30A TP curve 2 MCB in MDB - E, run a 4c/6mm² ECC cable from the DB to a 32A TP IP65 lockable isolator adjacent to the new unit and connect both ends.

A new extraction fan will be installed on the first floor. The Electrical Contractor shall install a 6A SP MCB in SDB – FF, run a 2.5mm² twin and earth wire and terminal in a 16A DP isolator adjacent to the fan.

2.14 DATA, CCTV, ACCESS CONTROL AND COMMS CABLING

There is an existing access control system. All additions to the system shall match the existing system as installed by Camsec.

The existing double door at the sound room is to be relocated complete with its associated access control unit to the multi-function studio. The Electrical Contractor shall supply all the wireways and power points required for that installation as further detailed on the drawings.

There is an existing CCTV system. All additions to the system shall match the existing system as installed by Camsec.

The existing system comprises:

- 8 bullet/dome cameras
- 16 Port POE data switch
- 8TB NVR
- Cat 6 cabling between cameras and data switch
- Relevant software for Hikvision equipment

The existing system is to be augmented with 4 new cameras wired to the existing data switch

Refer also to Schedules 4 and 5 of the Schedule of Quantities.

2.15 TESTING & COMMISSIONING

All installation work will be tested, commissioned and handed over to the Engineer and Principal Agent on an agreed date.

A certificate of compliance must be issued to the Engineer at the completion of the electrical installation or at partial handover whichever is the earliest. The entire electrical installation shall be balanced to the satisfaction of the Engineer.

2.16 STAFF TRAINING

The electrical contractor shall ensure that the relevant client staff are correctly and thoroughly trained in all aspects of the Phase 2 alterations and additions especially the operation of the generator and change-over arrangements.

2.17 GUARANTEE OPERATING AND MAINTENANCE MANUALS AND RECORD DRAWINGS”

A twelve month guarantee on the entire electrical installation shall be provided to cover all faulty workmanship and materials. The guarantee shall start on the date of beneficial occupation. The Electrical Contractor shall provide marked-up record drawings to the Engineer who will be responsible for updating the electrical drawings.

The Electrical Contractor is responsible for submitting all the necessary documentation such as “certificate of compliance” etc. as prescribed by the OHS Act to the Engineer at the completion of the project. The Electrical Contractor shall be responsible for approval from the relevant Local Authority for the installation, and certificates of approval shall be submitted to the Engineer for record purposes.

2.18 DRAWING LIST

1698-ELE-LP-001	Ground floor lighting and power layout
1698-ELE-LP-002	First floor lighting and power layout
1698-ELE-SLD-001	Rearrangement of change-over configuration
1698-ELE-SLD-002	MDB - E Ground Floor - Existing and new circuits
1698-ELE-SLD-003	SDB - MFS – New multi-function studio circuits
1698-ELE-SLD-004	SDB – FF First Floor – Existing and new circuits

**NATIONAL FILM AND VIDEO FOUNDATION
FILM HUB – PHASE 2
ELECTRICAL INSTALLATION
NOVEMBER 2021**

PART 3 – STANDARD TECHNICAL SPECIFICATIONS

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SECTION A1

REGULATIONS, CODES AND SPECIFICATIONS

The complete installation including the electrical, plumbing, Telkom, intercom, communications and data systems shall comply with the current editions of:

1. The Wiring of Premises Part 1: **Low-voltage** installations SANS 10142-1.
2. The Wiring of Premises Part 2: **Medium-voltage** installations above 1kV a.c. not exceeding 22kV a.c. and up to and including 3,000 kW installed capacity.
3. Occupational Health and Safety Act No. 85 of 1993
4. Regulations of Telkom
5. Local Municipal Bye-laws and Regulations
6. Local Fire Department Regulations
7. Protection against Lightning – Physical damage to structures and life hazard risks and components.
SANS 10313, SANS 62305 Parts 1 -4, SANS 1063, SANS 10199.
8. Interior Lighting : SANS 10114-1
9. Emergency Lighting : SANS 10114-2
8. The Specification provided by the Tenants and contained within the Contract Document
9. All the sections and Drawings forming part of the Contract Document
10. The relevant NRS Specifications
11. Plant and Equipment Manufacturers Specifications
12. National Building Regulations SANS 10400.
13. SANS 10061 Part 1 The installation of communal and single antenna systems for the reception of television and sound broadcast transmissions – VHF and UHF television and VHF sound antenna.
14. SANS 10061 Part 2 The installation of communal and single antenna systems for the reception of television and sound broadcast transmissions – Satellite antenna systems.
15. SANS 10061 Part 1 Passive antennae for the reception of VHF and UHF television and VHF sound transmissions.
16. SANS 1611 The mechanical requirements for satellite television receiving antennas.

SECTION A2**GENERAL**

1. Any items not specified, but reasonably assumed to be necessary, for the completion of the Works to recognise standards of workmanship and practice, shall be deemed to be included in the Contract.
2. All work shall be executed and finished in a permanent and neat manner by competent workmen, incorporating accepted methods in recognised practice and in conformity with the various CODES OF PRACTICE.
3. Where deviations to Contract Drawings are made during the execution of the Works, marked up drawings showing the changes, must be submitted to the Engineer before the final acceptance of the Works.
4. The scaled dimensions to the centre of the symbol are to be taken to the centre of the outlets in the absence of a specified dimension on drawings.
5. The Electrical Contractor is responsible for the checking with the Main Contractor by reference to the drawings on site, of the positions where panelling, tiling, tile edging or dadoes etc. may affect the electrical equipment such as outlets etc.
6. Before final connections are made, the phases in the relevant distribution boards are to be checked for "out of balance" and connections made to the phase or phases with the lowest reading.
7. All electrical drawings supplied by the Control Panel Manufacturer are to be updated at the end of the Contract and three sets supplied to the Engineer.
8. The Electrical Contractor is responsible to maintain progress of his work, so that the Main Contractor is not obstructed or delayed in completing the Contract.
9. Extension of the contract completion date required by variations to the Contract will only be accepted if the request for extension was made at the time of acceptance of such variations by the Contractor, in writing.
10. The Electrical Contractor shall make good damage to the building surfaces necessitated by the electrical installation unless expressly stated as an exception in his tender, however, the Contractor will be entirely responsible for the condition of the surfaces and finishes of all electrical equipment installed by him. Any such equipment shall be repaired by the Contractor in such a way as to match the original finish as supplied by the manufacturer.
11. The Contractor shall regularly remove his accumulated debris from site. In production related areas, the debris shall be removed immediately from site. The site shall remain neat and tidy and shall be regularly inspected by the Engineer or his nominee.
12. All defects found at the first delivery inspection are to be rectified within one month of written notice of such defects or unless otherwise stated by the Engineer or his appointed nominee. The contract will not be deemed to be complete until the Engineer's final payment certificate is issued.
13. All metal to be built in or installed underground or in service trenches shall be hot dip galvanised unless specifically stated otherwise.

SECTION A3**PAINTING AND COLOUR CODING****1 GENERAL**

- 1.1 No untreated metal surfaces shall be permitted on the project. Items which are not galvanised or similarly protected against rust and corrosion shall be painted.
- 1.2 All piping (with the exception of hot dipped galvanised copper and plastic/PVC), brackets and fixings, canvas covered insulation (where not clad with aluminium or galvanised sheet metal), unclad asbestos cement compound finish over insulation material, and surface mounted black conduits exposed to view shall be painted as specified below. Conduits not exposed to view need not be painted.
- 1.3 Where walls or ceilings which require to be painted, are to be inaccessible after the erection of equipment, the Contractor is to ensure that these are painted prior to his fixings taking place.
- 1.4 The surfaces of articles to be painted, which will be inaccessible after their erection, shall receive the full specified coating procedure before installation. This applies to fixing brackets bolted to the structure.
- 1.5 All preparation, treatment and painting shall be done in accordance with SANS 10064.

2 PAINTING

The minimum requirement for painting shall comprise the following consecutive processes:

- thoroughly clean, descale and degrease all surfaces
- apply one coat of the appropriate primer
- give one undercoat prior to erection
- touch up damaged undercoat after erection
- follow with two coats of enamel or suitable weather and/or heat resistant paint

3 SURFACE TREATMENT PRIOR TO PAINTING

- 3.1 Paint should not be applied over any surface containing traces of grit, grease, oil, loose rust, loose mill scale or corrosion products of any kind, nor to within 50mm of areas which are to be welded.
- 3.2 Welds and adjacent parent material shall be abrasive blasted and/or ground and all contaminants such as flux and weld spatter shall be removed prior to painting. Rust spots shall be removed by means of a wire brush or emery paper. The surrounding paint which is still intact shall be feathered for a distance of 50mm beyond the damaged area.
- 3.3 Spot priming and repair shall consist of all coats previously applied, and shall overlap the damaged area.

4 PAINTING ON GALVANISED SURFACES

4.1 Where further protection against corrosion is necessary, is specified, or is required for colour coding, the contractor shall proceed as follows:

- Surface to be thoroughly cleaned with a detergent chemical solution in accordance with SANS 10064 Code of Practice for the Preparation of Steel Surfaces for Coating.
- One coat of self-etching primer (Wash Primer) / (Metal Etch Primer)
- One coat of zinc chromate paint (Zinc Chromate Primers for Steel) Type II, Grade I
- One coat oleo-resinous, micaceous iron oxide paint to approved colour
- Two coats pure acrylic emulsion exterior or enamel paint.

4.2 All paints used shall be by the same and approved manufacturer and the Contractor shall ensure that the various paints are compatible with the other.

4.3 Surfaces exposed on galvanised material through cutting, drilling and/or pipe grips, shall be painted with Gallvalloy or similar.

5 COLOUR CODING

5.1 General

All equipment shall be colour-coded in accordance with standards recognised, and where possible, to comply with the relevant SANS colour codes, unless specified otherwise.

5.2 Identification of the contents of pipes shall be by painting a 100 mm wide primary colour band or by using self-adhesive PVC coloured tape. The colour of the paint or tape shall comply with SANS 10140 Identification Colour Marking, Part III, Contents of Pipelines, as detailed below.

5.3 The colour names referred to in the tables are specified in SANS 1091 – National Colour Standard.

5.4 Colour bands shall be at intervals of not less than 6 m apart, but in any case shall be adjacent to each side of bends, valves, etc. Where the run of pipes is hidden, i.e. within ducts, false ceilings etc. colour coding bands shall be provided opposite each access panel or equal.

5.5 A descriptive code indicator shall be used to describe the contents of the pipe where necessary. This shall give the name in full, or an abbreviation of the name, or by chemical formula or symbol, and where relevant, the pressure, temperature or flow direction. The characters are to be of a size suitable for legibility of the indicator. If the diameter of the pipe is too small to provide adequate legibility of a descriptive colour code indicator, the indicator is to be fixed to a plate, and the plate fixed firmly to the pipeline.

Arrows indicating the direction of flow of the contents of the pipe shall be applied as per colour coding bands.

IDENTIFICATION COLOUR MARKINGS PART 3: CONTENTS OF PIPELINES AS PER SANS 10140-3

CONTENTS OF PIPE	PRIMARY COLOUR	COLOUR BANDS
AIR		
• Compressed	Arctic Blue	Salmon Pink
• Instrument (pneumatics)	Arctic Blue	Primrose
• Vacuum	Arctic Blue	Black - White -
• Medical	Arctic Blue	-

N.B: Distinguish between high and low pressure medical air by superimposing the letter L or H as relevant.

FIRE FIGHTING

• All pipes	Signal Red	-
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WATER

• Cold water (i.e. Drinkable)	Brilliant Green	-
• Hot Water	Brilliant Green	Crimson -
• Cornflower		
• Boiler Feeder (Distilled)	Brilliant Green	Crimson - White -
• Crimson		
• Boiler Feeder (Demineralised)	Brilliant Green	White
• Industrial	Brilliant Green	Gold Yellow

STEAM

• Steam Mains and Condensate Lines	Pastel Grey	-
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ELECTRICAL

The base colour of electrical conduit, ductwork, distribution boards, etc., is to be Orange RAL 2000 or B26 Light Orange and shall be sub-divided with colour banding as follows:

• Power distribution	Electric Orange
• Fire alarm	Signal Red A II band
• Clock systems	Arctic Blue F 28 band
• Telephones GPO	White HG 100 band
• Data transmission	Jacaranda F 18 band
• Private telephones	Golden Brown B 13 band
• Intercom	Golden Yellow B 49 band

Bands are to be 25mm wide with a 2000mm pitch. PVC coloured tape may also be utilised.

OILS

• Diesel Fuel	Golden Brown	White
• Hydraulic Power	Golden Brown	Salmon Pink

GASES

• Acetylene	Light Stone	Maroon
• Argon	Light Stone	Peacock Blue
• Butane/Propane (superimpose with the letters LPG/VPG)	Light Stone	Crimson
• Carbon Dioxide Green	Light Stone	Light Brunswick
• Carbon Dioxide (Medical)	Light Stone	Light Brunswick Green - Green Light Grey
• Chlorine	Light Stone	Canary Yellow
• Hydrogen	Light stone	Poppy Red
• Nitrogen	Light stone	Light Grey - Black
• Nitrous Oxide	Light stone	Ultramarine
• Nitrous Oxide and Oxygen Mixed	Light Stone	White - Ultramarine
• Oxygen	Light Stone	White

The following pipe contents which have not been covered by SANS 10140 Part III have been based, where possible, on the colour coding specified by BSS.

CONTENTS OF PIPE	PRIMARY COLOUR	COLOUR BANDS
WATER		
• Drains	Black	-
• Chilled Water	Brilliant Green	Ultramarine
• Condenser Water	Brilliant Green	Arctic Blue
• Cooling Water -White	Brilliant Green	White - Arctic Blue
• High Temperature Hot Water	Pastel Grey	Brilliant Green

FIRE FIGHTING

Where more than one piped service is installed in a complex, the following pipe identification is to be employed

• Sprinklers	Signal Red	-
• Fire Hose Reels	Signal Red	Brilliant Green
• Hydrants Green	Signal Red	White - Brilliant
• CO2		Signal Red Light Stone - Light Brunswick Green
• Halon Golden Brown	Signal Red	Light Stone -

6 PLANT IDENTIFICATION

Wherever equipment rooms contain, and or switchboards serve multiple items or similar plant (e.g. run and stand-by pumps) each item shall be clearly identified. Generally a single numeral not less than 100 mm in height will suffice for this purpose. Such numeral may be stencilled directly on to the item in a contrasting colour, or a purpose made plate may be affixed to the unit. Self-adhesive numerals will not be accepted.

SECTION A 4**OPERATING AND MAINTENANCE MANUALS****1 GENERAL**

The Contractor is required to furnish four (4) sets of Operating and Maintenance Manuals. Three (3) hard copy sets and One (1) electronic set to be handed to the Consulting Engineers for review and approval.

2 PREPARATION OF THE MANUAL

The manuals shall be prepared within the contract and shall be particular to the project. All charges that may be required by the manufacturers, suppliers for the provision of information and literature shall be included in the contract price.

The manuals shall be arranged with an index and referencing system. A matching flysheet will give the names and addresses of the principals involved on the project.

The covers shall be hard bound with a four-post loose leaf system. The contract details shall be embossed on the front cover. Numbered card dividers shall be inserted between the sections.

The completed set of manuals shall be provided to the Engineers at practical completion. A draft text of the manual shall be issued for approval.

3 CONTENTS OF OPERATING AND MAINTENANCE MANUAL

The format of the manual shall be in accordance with the following sections, after a preface and index.

Section 1

This shall comprise the introduction, abbreviations and any warnings that may be required by the Occupational Health and Safety Act, Local Authorities and other such bodies.

Section 2

A full description of each section, together with the main plant components and locations, plus the mode of operation of automatic control systems associated with such system, shall be reflected in this section.

Section 3

This shall comprise the complete plant technical data of each item of equipment (e.g. manufacturers name and address, type and size of unit, serial number, bearing, pulley and belt details, unit performance and duty details.) This information shall be derived from a site inspection of identification plates, together with information obtained from the manufacturers.

Section 4

This section shall describe in detail the operating procedures necessary for starting up, running and shutting down each individual system. This shall include the control panel starter and selection facilities together with any alarm and safety interlocks as identified on the control panels.

Section 5

This shall comprise the maintenance operations on a daily, weekly, monthly basis for each item of plant. The preparation of this section shall be carried out by obtaining from the manufacturer, his advice and recommendations for lubrication, adjustment and routine maintenance.

Section 6

This section shall comprise the emergency procedures to be adopted by personnel engaged on the operation and maintenance of the mechanical and electrical services, with respect to fire, first aid, general failures to water and electrical systems, gas lines, chiller refrigerant pipework, and call-out procedures for maintenance personnel in working hours and out of working hours.

Section 7

A recommended action on plant malfunction shall be detailed in this section. This to assist both the user and maintenance engineer in the event of a fault developing in a system, by indicating the nature of the fault and the recommended action.

Section 8

This shall comprise a list of recommended spares and lubricants. The preparation of this section shall be carried out by obtaining the manufacturers recommendations and also incorporate the Clients requirements regarding spares.

Section 9

A schedule of the record, or as-built drawings, together with reduced copies (A4 size) of the record drawings, will be inserted in numerical order in this section.

Section 10

This section shall comprise test certificates and commissioning reports. It shall also give the manufacturers list (or their local representatives) names, addresses and telephone numbers.

4 ELECTRONIC COPIES OF DRAWINGS

In addition to the record drawings required for the Manuals, one electronic set of drawings shall be provided within the contract in the form of a **USB** or a CD.

SECTION C3**LV CABLES****1 GENERAL**

- 1.1 600/1000Volt PVC PVC SWA PVC Cable shall comply with SANS 1411.
- 1.2 The conductors shall be of high conductivity copper.

2 INSTALLATION

- 2.1 Glands shall be suitable for PVC PVC SWA PVC general purpose 600\1000 Volt cable.
- 2.2 Glands shall be correctly sized, as specified by the Manufacturer, to fit the specified cable sizes.
- 2.3 The glands shall be Pratley, or other approved manufacture, and shall include waterproof shrouds.
- 2.4 The shrouds shall be made of non-deteriorating neoprene or synthetic rubber and shall be resistant to water, oil and sunlight. The glands shall fit tightly around the gland and cable.
- 2.5 Cable splicing or jointing is not recommended. Where necessary, splicing/cable jointing kits shall be of the epoxy - resin moulded type and shall be of Scotch-Guard, 3M or approved equal manufacture. Splicing/cable jointing shall be carried out strictly in accordance with the Manufacturer's instructions.
- 2.6 Conductors shall be terminated using crimped or soldered lugs unless otherwise approved.
- 2.7 The earth terminal shall be connected to a separate "way" on the earth bar using a suitable bonding strip and crimping screws.

3 CABLES IN TRAYS OR RACKS

- 3.1 Cables laid in cable trays or ladder racks shall be secured with approved locking cable ties or pre-galvanised steel strapping with locking clips at intervals not exceeding 300mm and 1000mm in the vertical and horizontal planes respectively.
- 3.2 Wire binders will not be permitted.
- 3.3 Cables shall be installed such that, in the event of a cable requiring replacement, the remainder of the cables are not disturbed.
- 3.4 Where practicable, cables shall be laid at least 1 cable diameter away from each other to form a suitable air gap.
- 3.5 Where cable ties are used on exterior installations only ultra-violet treated exterior ties shall be used.

4 CABLES FIXED TO VERTICAL TRAYS, LADDER RACKS OR BRACKETS

- 4.1 Cables fixed on vertical cable trays, ladder rack or brackets risers shall be fixed at 300mm intervals using approved ties or straps.
- 4.2 Cables fixed on vertical cable ladder racks or bracket risers shall be fixed at 500mm intervals using approved and correctly sized cable clamps.

- 4.3 Cables rising vertically and fixed to concrete or masonry shall be secured using approved, and correctly sized cable clamps located into cleats of galvanised “Unistrut” or approved equal. Cleats shall be fixed at intervals not exceeding:

Cable diameter exceeding 35mm	1 000mm
Cable diameter less than 35mm	500mm

5 CABLE MARKERS

- 5.1 The cable markers shall consist of a concrete block in the shape of a truncated pyramid, approximately 300mm deep x 150mm x 150mm at the top and 230mm x 230mm at the bottom. An aluminium indicator plate shall be cast onto the top of the marker. Cable markers shall be painted the colour of the service they are indicating. The standard colour codes are scheduled in A3 above.
- 5.2 Indicator plates shall have the following inscriptions:
- “ CABLE / CABLE SLEEVES”
“ INDICATE NUMBER AND SIZE”
- 5.3 Markers for cable joints shall have the following stamped inscription on the indicator plate:
“CABLE JOINT No.....”
- 5.4 Markers shall be placed at regular intervals along the cable routes, approximately 15 meters apart and also at all changes in direction with arrows indicating route of cable.
- 5.5 A sample of the proposed markers shall be submitted to the Engineer for approval before they are manufactured.
- 5.6 The position of the cable markers shall be indicated on the Record Drawings.

SECTION C7

DISTRIBUTION BOARDS

1 CONSTRUCTION

- 1.1 Distribution boards shall comply with SANS 10142 and SANS 60439-3.
- 1.2 Distribution boards shall consist of a deep architrave frame which shall carry the equipment chassis panel and door. A bonding tray shall be provided onto which the architrave frame is to be secured.
- 1.3 Bonding trays shall be designed to be built into the wall. Expanded metal, the size of the tray, shall be spot welded to its rear surface.
- 1.4 The tray shall be constructed of 1,2mm minimum galvanised sheet steel suitably braced by means of gussets. It shall be suitably sized to accommodate the specified equipment without congestion. Approximately 20% spare capacity shall be provided for future expansion.
- 1.5 An architrave frame, constructed of 1,2mm minimum sheet steel, suitably braced and formed with bevelled edges, shall accommodate panel chassis and door(s). The frame shall be fixed to the tray in such a manner as to allow adjustment for depth and out of plumb.
- 1.6 Doors of smooth flat finish, suitably braced to ensure rigidity, shall be recessed flush in the architrave. Door catches shall be similar or equal to "UNION" type 5174 CH. Single doors shall not exceed 610mm in width.
- 1.7 A chassis, of rigid construction for mounting of equipment, shall be fixed to the architrave or tray.
- 1.8 Each distribution board is to be provided with neutral and earth bars of solid brass or copper with one way for each conductor. Double pinching screws of brass shall be provided per way. Sufficient spare ways shall be provided to accommodate approximately 20% expansion.
- 1.9 Each busbar shall be accessible from the front. A large terminal shall be provided on each bar for the main conductor.
- 1.10 Wiring shall be carried out from the sides and in front of the chassis where possible. Conductors shall be neatly arranged in horizontal and vertical rows and bound together.
- 1.11 Where distribution boards are surface mounted in cupboards specially provided, conduit entering the boards may be terminated in wiring trays which may be fixed to the top and/or bottom of the boards. Conduits in the cupboards may be surface mounted.
- 1.12 All wiring trays shall be bonded to the distribution board earth bar by means of a copper conductor.

2 LABELLING

- 2.1 All circuit breakers shall be numbered using suitable ivory or plastic labels. Lettering shall be a minimum of 12mm in height.
- 2.2 All distribution boards shall be numbered using suitable ivory or plastic labels. Lettering shall be a minimum of 15mm in height.
- 2.3 A legend card, covered by a removable transparent acrylic plastic (perspex) or equal panel shall be installed in the inside of the door of the distribution board. The legend card

shall depict the number and corresponding description of each circuit. The legend card shall be completed in bold type of 10mm minimum height. No hand written legend cards will be accepted.

3 PAINTING

3.1 Distribution boards shall be painted using epoxy powder coating. No hammer tone finish will be accepted.

3.2 Unless otherwise specified colour finishes shall be electric orange with fascia's being:

- White for non-essential circuits
- Red for essential circuits and
- Blue for UPS/isolated circuitry.

3.3 Touch up paint from the same batch as the original coat shall be provided with each distribution board.

3.4 Non-Galvanised Steel

All non-galvanised steel shall be thoroughly de-rusted.

3.5 Galvanised Steel

Where specified, galvanised steel used in this contract shall be thoroughly degreased and then treated as follows:

- 1 coat of calcium plumbate
- 1 coat of white undercoat
- 1 coat of gloss enamel, the colour of which will be detailed in the particular specification.

4 SHORT CIRCUIT RATINGS AND LOADINGS

The short circuit ratings specified in the Schedules shall apply to the switches and to all other component parts on each switchboard. All components shall withstand, for three seconds, a symmetrical current in rms. values corresponding to the short circuit rating specified.

The maximum continuous working loads which can be carried shall be as stated.

5 SECONDARY WIRING

5.1 Secondary wiring shall consist of suitably rated, high conductivity stranded copper conductors, insulated with PVC in the appropriate phase colours and shall be cleared to approval within the switchboards. All conductors shall be numbered at both ends, in accordance with the markings shown on the schematic and wiring diagrams. The connections from all dual ratio current transformers shall be brought to approved, easily accessible link boards to facilitate change of ratio and an approved clear engraved plate, showing the ratio in each position of the links, shall be fixed to the link board.

5.2 The secondary wiring earth leads shall be brought to marked, easily accessible links for insulation resistance testing purposes. All secondary fuses shall have approved spring-type fuse holders and cartridge fuses.

6 PHASE ROTATION

- 6.1 The marking of conductors and terminals of power and secondary circuits to show phase sequence.

7 EARTHING

An approved copper earth bar shall be provided along the entire length of each switchboard, inside the switchboard on top of or near the gland plate, to which each panel of the sheet metal enclosure and each gland earth tag and each cable box armour clamp shall be bonded. The earth bar shall not be less than 25 x 3mm in section and shall be drilled at each end and provided with size M10 bolts for the attachment of earth conductors entering from the cable trench.

8 SPACE RESTRICTIONS

When sizing switchboards, cognisance shall be taken of the sizes of the openings through which the switchboards must pass.

9 SWITCHBOARD COMPONENTS

The components provided in the switchboards to meet the requirements of the Schedules, shall comply with the following clauses:

9.1 Busbars and Connections

- 9.1.1 Busbar and busbar connections and risers shall be insulated and shall conform to the requirements of BS EN 61439. Clearances from phase to earth and between phases shall be in accordance with BS EN 61439 and shall not be less than 19mm.
- 9.1.2 Busbar support insulators shall be suitable for use under damp conditions, made of porcelain, or synthetic resin bonded materials of a non-moisture absorbing type, which provide a minimum creepage distance to earth of 25mm and 38mm between phases.
- 9.1.3 All connections from busbars shall be supported on insulators to provide the same spacing between phases and to earth as the busbars, up to the point of entry into h.r.c. fuse or circuit breaker. This applies also to connections for voltmeters, kWh meters and control circuit supplies.

9.2 PVC Insulated Cables

- 9.2.1 Glands for PVC insulated cables shall be suitable for general purpose grade cables manufactured to SANS 1411-1 of the size and type specified. The glands shall be of approved type, machined from non-corrodible material and shall incorporate approved sealing washers, shrouds, bushes, locknuts, earthing tags and compression nipples and one type wire armour clamps and shall be water-tight if specified.

10 DRAWINGS

Three copies of the following drawings shall be submitted for approval within one month of the date of order and before manufacture commences:

- General arrangement drawings showing the overall dimensions of the switchgear, the space required for the opening of doors, lids and withdrawal of circuit breakers and sizes and positions of holding down bolts related to the cable trench. Any projection affecting the passage of boards through doors shall be shown.
- Sectional drawings showing positions of switchgear components, busbar riser connections, contractors and cable end boxes.

- Schematic diagrams on which all terminals and wires are shown and numbered to correspond with the equipment, and in which ac and dc circuits are shown separately. The diagram shall show the internal connections inside all apparatus such as kWh meters and relays.

**NATIONAL FILM AND VIDEO FOUNDATION
FILM HUB – PHASE 2
ELECTRICAL INSTALLATION
NOVEMBER 2021**

PART 4 – RETURNABLE SCHEDULES

Schedule 1	Financial Details	4.1
Schedule 2	Registration as an Electrical Contractor	4.2
Schedule 3	Details of Installation Electrician	4.3
Schedule 4	Similar types of installations previously done by Tenderer	4.4
Schedule 5	Schedule of Proposed Sub-contractors	4.5
Schedule 6	Schedule of Equipment	4.6
Schedule 7	Form of Resolution	4.8
Schedule 8	Proof of CIDB Grading	4.9
Schedule 9	Works Programme	4.10

SCHEDULE 1 FINANCIAL DETAILS

Name of Bank or Financial Institution where Account is kept:

.....

Branch Name

Bank Contact Person.....

Branch Code

Account number

Name under which account is operated:

NOTE;

Tenders cannot be adjudicated without the above information and failure on the part of tenderers to declare the information, thus causing delays to the adjudication to the, may result in their tender being disqualified.

.....

NAME OF ELECTRICAL SUBCONTRACTOR

.....

ELECTRICAL SUBCONTRACTOR'S SIGNATURE

.....

DATE

SCHEDULE 2 REGISTRATION AS AN ELECTRICAL CONTRACTOR

The Tenderer must be registered as an Electrical Contractor with the Electrical Contracting Board of South Africa and must also be registered with the Workmen’s Compensation Commissioner and the Unemployment Insurance Commissioner to qualify for this tender.

Tenderers must complete the following questionnaire and submit it with this tender.

Has the company been registered with the Electrical Contracting Board of South Africa?

YES / NO

Registration no.:

Date of issue :

b) Has the company been registered with the Department of Manpower for the following:

i) The Workmen’s Compensation Commissioner YES / NO

Registration no.:

Date of issue. :

ii) The Unemployment Insurance Commissioner. YES ? NO

Registration no.:

Date of issue. :

I / We certify that the above information is correct

Signature :

Name of Signatory :

Name of Firm represented :

Address :

.....

Date :

NOTE: IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND ELECTRICAL INSTALLATIONS REGULATIONS, FAILURE TO COMPLY WITH THIS CLAUSE OF THE SPECIFICATION MAY RESULT IN DISQUALIFICATION AND REJECTION OF THE TENDER.

SIGNATURE OF TENDERER

DATE

SCHEDULE 3 DETAILS OF INSTALLATION ELECTRICIAN

I/We certify that
is a registered installation electrician in terms of the Occupational Health and Safety Act (Act 85 1994
and is permanently employed by my/our company trading as:

I/We further certify that the abovementioned person will be appointed as the responsible person in
charge of the installation, which person shall personally supervise the whole of the electrical works as
tendered for from inception to completion inclusive of signing all commencement / completion / cost
certificates necessary as part of the Works.

I/We further certify that I/We am/are fully aware of the provisions of the Occupational Health and Safety
Act (Act 85 1994), and that my/our company is trading as a registered electrical contracting organisation.

SIGNATURE OF TENDERER :

DATE :

SIGNATURE OF REGISTERED ELECTRICIAN:

REGISTRATION NUMBER OF INSTALLATION ELECTRICIAN:

DATE :

COMPANY STAMP:

NOTE: it is an offence to employ a registered single phase electrician on a poly-phase installation and it
may be necessary to submit a certified copy of the licence of the person to be employed on any poly-
phase project

SCHEDULE 4 SIMILAR TYPES OF INSTALLATIONS CARRIED OUT BY TENDERER

The Tenderer shall list below all similar works carried out by him including Client details and value of the Works. Please state below brief details of all projects valued at R300, 000.00 and above which have been completed during the past 5 years. Failure to comply may invalidate the tender.

NAME OF CONTRACT	YEAR	CLIENT	CONSULTING ENGINEER	CONTRACT PERIOD	VALUE [R]

SIGNATURE OF TENDERER

DATE

SCHEDULE 5 SCHEDULE OF SUB-CONTRACTORS PROPOSED BY THE TENDERER

The Tenderer shall state hereunder the names and particulars of all sub-contractors he proposes to employ on the Works. He shall also define the duties and relevant experience of each sub-contractor listed.

NAME OF SUB-CONTRACTOR	CONTACT NUMBER	PROPOSED DUTIES	EXPERIENCE

SIGNATURE OF TENDERER

DATE

SCHEDULE 6 SCHEDULE OF EQUIPMENT

The contractor shall complete the following schedules and submit them with their tender submission.

The schedules will be scrutinised by the Representative / Agent and should any material offered not comply with the requirements contained in the specification, the Contractor will be required to supply material in accordance with the contract at no additional cost.

NB: Only one manufacturer's name to be inserted for each item.

Item	Material	Make or trade name	Country of origin	SABS Y/N
1	Distribution boards			
2	Circuit breakers 1P, 2P, 3P			
3	Contactors 1P, 2P, 3P			
4	Earth leakage relays 1P & 3P			
5	Daylight sensitive switch			
6	Conduit			
7	Conduit boxes			
8	Surface switches			
9	Watertight switches			
10	16A single/duo flush socket outlets			
11	16A single/duo dedicated socket outlets			
12	20A DP rotary isolator switch			
13	Weather proof enclosure			
14	Luminaires : Type T2			
15	Luminaires : Type B			
16	Luminaires : Type JS/JSE			
17	Luminaires : Type A/AE			
18	Luminaires : Type EX			
19	L Luminaires : Type ON AIR			

20	PVC SWA PVC ECC cable			
21	Biometric devices			
22	Magnetic door locks			
23	Backup battery			
24	No touch exit button			
	Other - Specify			
25				
26				
27				
28				
29				
30				

NOTE: Under no circumstances will the tenderer be permitted to deviate from the materials specified above unless agreed in writing, by the Engineer, prior to award of tender.

SIGNATURE OF TENDERER

DATE

SCHEDULE 7 FORM OF RESOLUTION

This form is to be completed in full by the Tenderer. Failure to do so may invalidate the tender.

RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF

_____ (Company's Name)

at _____ (Place)

on the _____ day of _____ 2021 _____

RESOLVED

that _____ in his capacity

as _____ of the Company

is hereby authorised and empowered to sign the Tender and/or Contract Documents for the project known as

for and on behalf of the Company.

Signed : _____ (DIRECTOR)

Signed : _____ (DIRECTOR)

Signed : _____ (SECRETARY)

DATE

SIGNATURE OF TENDERER

SCHEDULE 8 PROOF OF CIDB GRADING

Provide proof of CIDB grading and active status

ATTACH CERTIFIED COPY OF CERTIFICATE HERE

SCHEDULE 9 WORKS PROGRAMME

Liaise with Principal Contractor and provide a programme of work.

ATTACH PROGRAMME OF WORK HERE

**NATIONAL FILM AND VIDEO FOUNDATION
FILM HUB – PHASE 2
ELECTRICAL INSTALLATION
NOVEMBER 2021**

PART 5 PRICING INSTRUCTIONS AND SCHEDULES OF QUANTITIES

CONTENTS

Item	Description	Page
1	General notes/preambles	5.1
2	Schedule 1 Preliminaries and General	5.2
3	Schedule 2 Distribution boards and cables	5.3
4	Schedule 3 Lighting and Power	5.4
5	Schedule 4 Access Control	5.5
6	Schedule 5 Provisional Sums	5.6
7	Price summary Ex VAT	5.7

PART 5 – PRICING INSTRUCTIONS AND SCHEDULES OF QUANTITIES**GENERAL NOTES/PREAMBLES****1 CONDITIONS OF CONTRACT**

The Conditions of Contract and the application of the Contract Price Adjustment Provisions shall be as set out in Part A: Section 1: Preliminaries

2 DESCRIPTIONS

The descriptions in these bills of quantities shall be read in conjunction with the specification

3 UNIT RATE

The unit rate for each item in the bills 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.

4 ORDERING

The bills of quantities shall not be used for ordering purposes. The Contractor shall check the lengths of cables and overhead conductors, as well as all other items described, on site before ordering. Any allowance for off-cuts shall be made in the unit rates.

5 VALUE ADDED TAX

The rates shall exclude value added tax and the total carried over to the final summary in Part A.

6 SOUTH AFRICAN MANUFACTURE

All materials covered by this specification shall, wherever possible, be of South African manufacture.

7 PROVISIONAL SUMS

Where Provisional Sums are allowed, these shall be expended only as directed by the Client or the Client's Representative and any balance remaining shall be deducted from the amount of the Sub-contract sum. No work for which Provisional Sums are provided shall be commenced without written instructions from the Engineer.

All Provisional Sums may be utilised in full or in part. These Provisional Sums may be deleted in full or in part if not required.

**NATIONAL FILM AND VIDEO
FOUNDATION: THE HUB (PHASE 2)**

MECHANICAL BOQ

**AIR CONDITIONING & VENTILATION
INSTALLATION**

NATIONAL FILM AND VIDEO FOUNDATION - PHASE 2
THE HUB, 33 CHURCH STREET, EAST LONDON
AIR CONDITIONING AND VENTILATION INSTALLATION
SCHEDULE 1 : PRELIMINARY AND GENERAL

ITEM	DESCRIPTION	UNIT	QUANTIT	RATE	AMOUNT
1	Contractual Items				
11	Contractor's fee	£m	1		
12	Contractor's fee	£m	1		
13	Contractor's fee	£m	1		
14	Contractor's fee	£m	1		
15	Contractor's fee	£m	1		
16	Contractor's fee	£m	1		
17	Contractor's fee	£m	1		
2	Fixed Cost Items				
21	Other (Specify).....	£m	1		
22	(i).....	£m			
	(ii).....	£m			
	(iii).....	£m			
	(iv).....	£m			
	(v).....	£m			
3	Time Related Items				
31	Contractor's fee	£m	1		
32	Contractor's fee	£m	1		
33	Contractor's fee	£m	1		
	(i).....	£m	1		
	(ii).....	£m	1		
	(iii).....	£m	1		
	(iv).....	£m	1		
	(v).....	£m	1		
4	Commissioning				
41	Contractor's fee	£m	1		
42	Contractor's fee	£m	1		
5	Training				
51	Contractor's fee	£m	1		
TOTAL CARRIED FORWARD TO SUMMARY					

NATIONAL FILM AND VIDEO FOUNDATION - PHASE 2
THE HUB, 33 CHURCH STREET, EAST LONDON
AIR CONDITIONING AND VENTILATION INSTALLATION
SCHEDULE 2: AIR CONDITIONING AND VENTILATION INSTALLATION

<u>ITEM NO</u>	<u>Spec. Ref</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	<u>MATERIAL RATE</u>	<u>LABOUR RATE</u>	<u>TOTAL AMOUNT</u>
1		AIR CONDITIONING UNITS					
11		Split system air conditioning unit, 12000 BTU	unit	1			
12		Split system air conditioning unit, 12000 BTU	unit	1			
13		Split system air conditioning unit, 12000 BTU	unit	1			
14		Split system air conditioning unit, 12000 BTU	unit	1			
15		Split system air conditioning unit, 12000 BTU	unit	1			
16		Split system air conditioning unit, 12000 BTU	unit	1			
17		Split system air conditioning unit, 12000 BTU	unit	1			
18		Split system air conditioning unit, 12000 BTU	unit	1			
19		Split system air conditioning unit, 12000 BTU	unit	1			
110		Split system air conditioning unit, 12000 BTU	unit	1			
111		Split system air conditioning unit, 12000 BTU	unit	1			
2		VENTILATION FANS					
21		200 diameter ceiling fan	unit	1			
22		200 diameter ceiling fan	unit	12			
23		200 diameter ceiling fan	unit	1			
24		200 diameter ceiling fan	unit	1			
25		200 diameter ceiling fan	unit	1			
26		200 diameter ceiling fan	unit	1			
27		200 diameter ceiling fan	unit	1			
28		200 diameter ceiling fan	unit	1			
TOTAL CARRIED FORWARD							

NATIONAL FILM AND VIDEO FOUNDATION - PHASE 2

THE HUB, 33 CHURCH STREET, EAST LONDON

AIR CONDITIONING AND VENTILATION INSTALLATION

AIR CONDITIONING AND VENTILATION INSTALLATION				
Item No.	Description			TOTAL
1	1 x 1.0kW split system unit			
2	2 x 2.5kW split system units			
	SUB-TOTAL			
TOTAL				
NETT TOTAL EXCLUDING BUILDERS MARK UP AND VAT CARRIED FORWARD				

I,, on behalf of the Tenderer
..... advise that I have read and priced the installation in
accordance with the Bill of Materials and Specifications and understand my obligations under the contract documents.

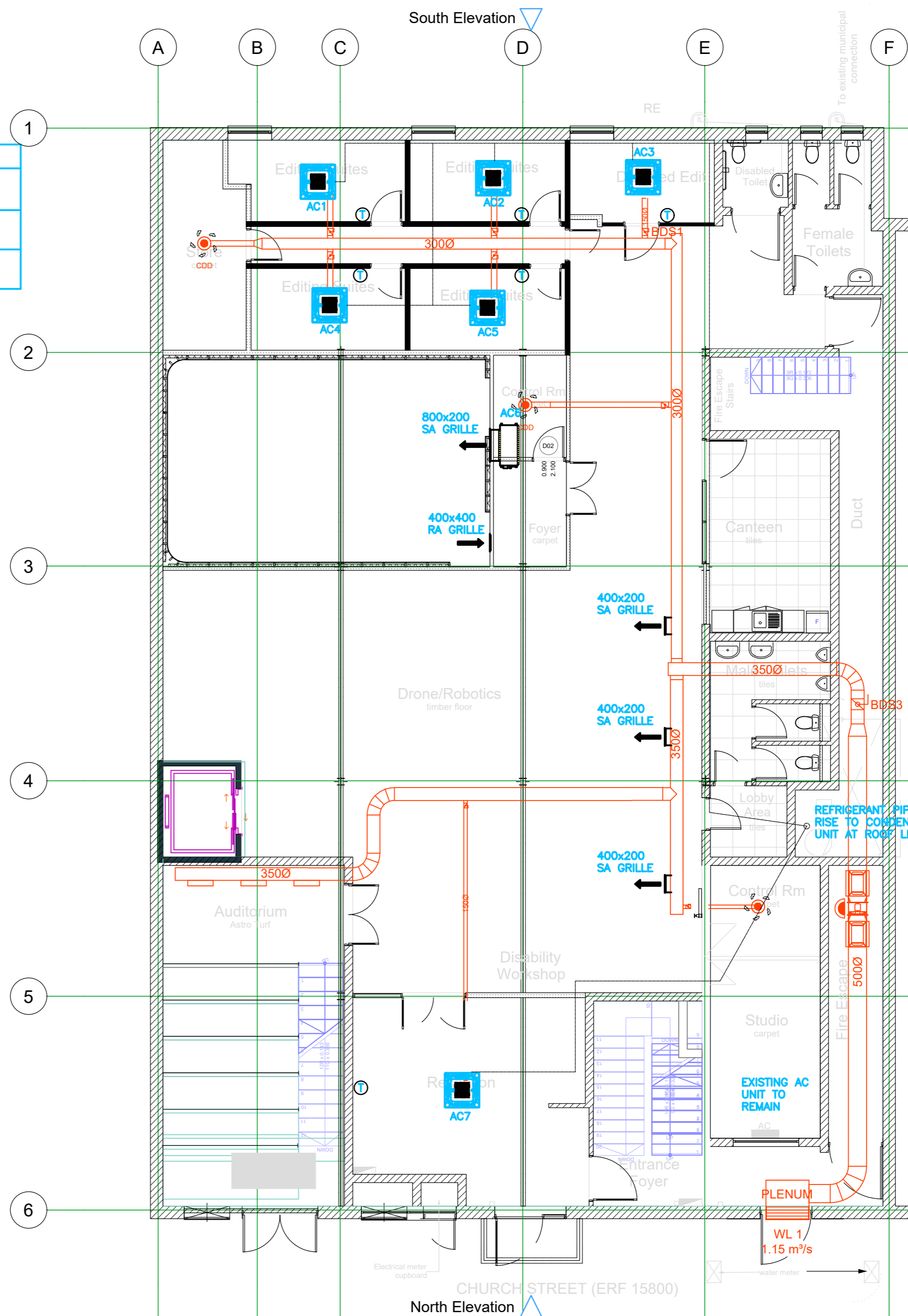
.....
DORR M/M

.....
DORR

EQUIPMENT SCHEDULE				
UNIT NO.	DESCRIPTION.	DUTY	Qty	AREA SERVING
AC1-AC5	CEILING CASSETTE TYPE AIR CONDITIONING UNIT CONNECTED TO A HEAT RECOVERY VRV/VRF CONDENSER.	12000 BTU OR 3.5kw	5	EDITING SUITES - GROUND FLOOR
AC6	DUCTED HIDEAWAY TYPE AIR CONDITIONING UNIT CONNECTED TO A HEAT RECOVERY VRV/VRF CONDENSER.	18000 BTU OR 5.2kw	1	MULTI FUNCTION STUDIO - GROUND FLOOR
AC7	CEILING CASSETTE TYPE AIR CONDITIONING UNIT CONNECTED TO A HEAT RECOVERY VRV/VRF CONDENSER.	18000 BTU OR 5.2kw	1	RECEPTION AREA - GROUND FLOOR

ⓐ AIR CONDITIONING REMOTE CONTROLS

◻ EXISTING MECHANICAL EQUIPMENT



SCALE 1:100

GENERAL NOTES

No	AMENDMENTS	DATE

TO	ISSUED FOR TENDER	26/11/2021
SURVEYED	-	-
DRAWN	W.ADAMS	OCT 2021
DESIGNED	B.MALITI	OCT 2021
CHECKED	B.MALITI	OCT 2021

APPROVED *B. Maliti*
 PR REGISTRATION NO 200970291 DATE:26/11/2021

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 E-MAIL: el@lukhozi.co.za

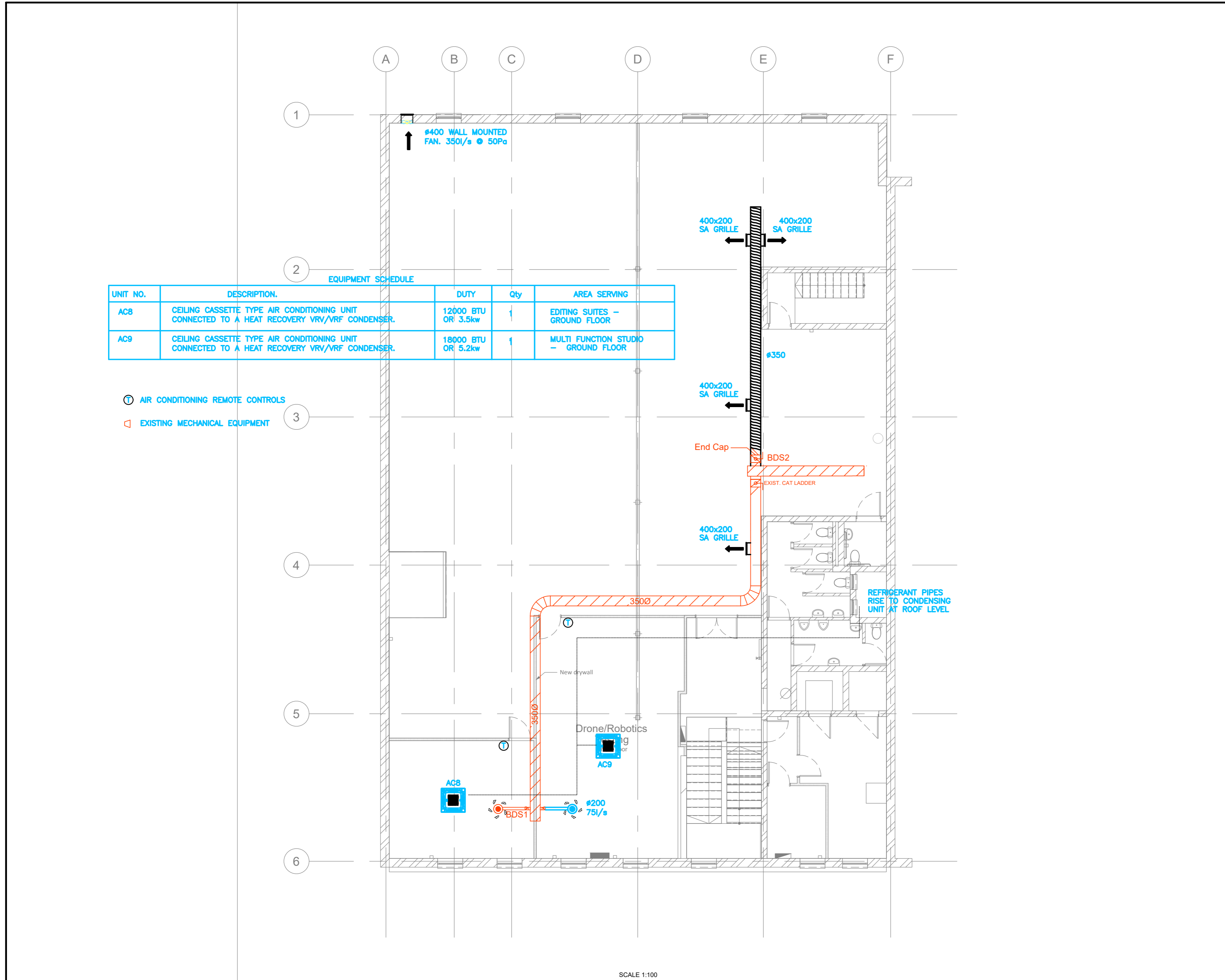
CLIENT
nfvf
 national film and video foundation
 an agency of the Department of Sports, Arts and Culture
BLACK VISION CONSULTANTS
 Architects | Project Managers | Interior Design

PROJECT TITLE
REFURBISHMENT OF THE EASTERN CAPE FILM HUB

DRAWING TITLE
GROUND FLOOR AIR CONDITIONING LAYOUT

SCALE	SHEET SET	SHEET SIZE
1:100	SHEET 1 OF 1 SHEETS	A2
DRAWING No.	REVISION	T0
1698-HVAC-01		

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2 EQUIPMENT SCHEDULE

UNIT NO.	DESCRIPTION.	DUTY	Qty	AREA SERVING
AC8	CEILING CASSETTE TYPE AIR CONDITIONING UNIT CONNECTED TO A HEAT RECOVERY VRV/VRF CONDENSER.	12000 BTU OR 3.5kw	1	EDITING SUITES – GROUND FLOOR
AC9	CEILING CASSETTE TYPE AIR CONDITIONING UNIT CONNECTED TO A HEAT RECOVERY VRV/VRF CONDENSER.	18000 BTU OR 5.2kw	1	MULTI FUNCTION STUDIO – GROUND FLOOR

- ① AIR CONDITIONING REMOTE CONTROLS
- ◁ EXISTING MECHANICAL EQUIPMENT

3

4

5

6

SCALE 1:100

GENERAL NOTES

No	AMENDMENTS	DATE

TO	ISSUED FOR TENDER	26/11/2021
SURVEYED	-	-
DRAWN	W.ADAMS	OCT 2021
DESIGNED	B.MALITI	OCT 2021
CHECKED	B.MALITI	OCT 2021
APPROVED		DATE: 26/11/2021

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PROJECT TITLE
REFURBISHMENT OF THE EASTERN CAPE FILM HUB

DRAWING TITLE
FIRST FLOOR AIR CONDITIONING LAYOUT

SCALE	SHEET SET	SHEET SIZE
1 : 100	SHEET 1 OF 1 SHEETS	A2
DRAWING No.	REVISION	
1698-HVAC-02	T0	

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national film and video foundation
SOUTH AFRICA
an agency of the Department of Sport, Arts and Culture

**TENDER DOCUMENT
FOR
THE APPOINTMENT OF A CONTRACTOR TO CARRY
OUT THE PHASE 2 REFURBISHMENT OF THE
EASTERN CAPE FILM HUB
AT
EASTERN CAPE LOCAL CONTENT HUB, 33
CHURCH STREET, QUIGNEY, EAST LONDON**

AIR CONDITIONING AND VENTILATION

ISSUED BY:

NATIONAL FILM AND VIDEO FOUNDATION

TENDER REFERENCE NUMBER: RFT 05 2021-2022

TENDER CLOSING DATE: 7 JANUARY 2022 AT 11H00

NAME OF THE TENDERER: : _____
TEL NUMBER : _____
FAX NUMBER : _____

NATIONAL FILM AND VIDEO FOUNDATION

AIR CONDITIONING AND VENTILATION

PART D

NOVEMBER 2021

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22	MODIFICATIONS.....	10

1 SCOPE OF WORK

The scope of work includes the installation of a Variable refrigerant Volume (VRV/VRF) heat recovery type air conditioning system for The Hub Building, 33 Church Street, East London. The installation shall include the servicing and modifications to the existing ventilation systems to suit the new building layout. The VRV/VRF system shall include ceiling cassette type indoor units, hideaway type, refrigerant piping, wire remote controls, branch selector box and any other equipment required to successfully commission the system.

After completion of the works and before first delivery is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installations will be inspected and the Contractor shall make good, to the satisfaction of the Representative / Agent, any defects which may arise.

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With effect from the date of the First Delivery Certificate the Contractor shall at his own expense undertake the regular servicing of the installation during the maintenance period and shall make all adjustments necessary for the correct operation thereof.

The maintenance period shall be twelve (12) months from the date of the First Delivery Certificate.

If during the said period the installation is not in working order for any reason for which the Contractor is responsible, or if the installations develop defects, he shall immediately upon being notified thereof take steps to remedy the defects and make any necessary adjustments.

Should such stoppages however be so frequent as to become troublesome, or should the installations otherwise prove unsatisfactory during the said period the Contractor shall, if called upon by the Representative / Agent or the Director-General, at his own expense replace the whole of the installations or such parts thereof as the Representative/Agent or the Director-General may deem necessary with apparatus specified by the Representative / Agent or the Director-General.

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The installation shall be erected and tested in accordance with the latest issued and amendments of the following Acts and regulations:

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- SANS 1238 : Duct work
- SANS 1287-1&2 : Ventilation practices and ducting
- SANS 1424 : Filters
- SANS 10147 : Refrigeration Systems
- SANS 10173:2003 : Installation, testing and balancing Air Conditioning ductwork
- The Occupational Health and Safety Act, 1993 (Act 85 of 1993),
- SANS 10400 : The National Building Regulations
- SANS 10142 Parts 1 & 2 : Code of Practice for the Wiring of Premises

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- The Electricity Act 1996 (Act 88 of 1996) and
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- Material specifications
- Shop drawings

The contractor shall, on certain occasions, be required to provide samples on request by the Engineer.

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On completion of the installation, it shall be tested to the satisfaction of the Engineer and all results shall be recorded in the Operating and Maintenance manuals.

All balancing and testing shall be carried out by the Contractor entirely at his own expense, and all test instruments shall be checked for accuracy by the Manufacturers, Suppliers, or an approved Laboratory and certified copies of the certificates showing the degree of accuracy shall be supplied to the Engineer, if requested.

Gauges, thermometers, ammeters, and other instruments which form part of the permanent plant may be used for test purposes provided they are certified as accurate.

The Engineer shall have the right to inspect any item of equipment during manufacture or before delivery to site.

The Contractor shall balance, set, and test the entire plant and shall submit the results to the Engineer who shall then carry out spot checks in the presence of the Contractor.

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Unless specifically stated otherwise in the project specification, the Contractor shall be responsible for all electrical work and control wiring associated with the air conditioning installation with the exception of the incoming power which will be provided by others. The contractor shall be required to provide a certificate of compliance for any electrical work they have completed under this contract.

All electrical work shall comply with the requirements of the local Municipal Authorities and the Code of Practice for the "Wiring of Premises" SANS 10142, as amended.

8 OPERATING AND MAINTENANCE INSTRUCTIONS

The Contractor shall furnish to the Engineer three bound copies of Operating and Maintenance Instructions prior to the final acceptance of the installation.

The manuals shall include the following:

- Index
- Description of the plant
- Operation of the plant
- Plant and equipment - including model numbers and Suppliers
- Test report
- Maintenance instructions
- Spare parts list
- Descriptive literature that includes equipment testing and commissioning reports
- Record drawings (for all equipment installed and electrical wiring performed by the air conditioning contractor).

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No untreated metal surfaces shall be permitted on the project. Items which are not galvanised or similarly protected against rust and corrosion, shall be painted.

All black metal work including brackets, hangers, platforms, piping etc. either exposed or concealed shall be thoroughly cleaned, de-scaled and painted with one coat zinc chromate followed by one coat enamel paint, to an approved colour.

Unless specified to the contrary hereafter, all equipment, exposed ducting, pipes, metal parts and insulated and plastered surfaces shall be painted with a primer coat followed by two coats enamel paint, to an approved colour.

10 REFRIGERANT AND REFRIGERATION PIPING

All refrigerant piping will be insulated and vapour sealed with closed cell preformed sections with taped joints; proprietary tape only will be used. The AC Contractor will ensure that the aggregate equivalent suction and liquid refrigerant lines lengths do not exceed the manufacturer's recommended allowances.

All refrigerants are to be R410 A (ODP zero). If alternatives are proposed they must have an Ozone Depleting Potential of zero.

Refrigeration piping shall be carried out in phosphoric acid deoxidised seamless copper tubing. The piping for R410A shall be as follows.

Outside Diameter (mm)	Outside Diameter (in)	Material	Wall Thickness (mm)
6.4	1/4	0	0.8
9.5	3/8	0	0.8
12.7	1/2	0	0.8
15.9	5/8	0	1.0
19.1	3/4	0	1.0
22.2	7/8	1/2H	1.2
25.4	1 1/8	1/2H	1.2
28.6	1 3/8	1/2H	1.2
31.8	1 5/8	1/2H	1.2
34.9	2 1/8	1/2H	1.3
38.1	2 5/8	1/2H	1.3

All piping shall be kept properly sealed against moisture and dirt at all times. Bends in soft drawn material shall be made with long radius using proper tools. If hard drawn piping material is used then only long radius brazed bends may be used.

The piping shall be correctly sized using the equipment manufacturer's method or software. The additional refrigerant charge shall be accurately calculated by the same method. The maximum pipe lengths shall be adhered to.

All branch connections shall be by means of "proprietary" type joints as supplied by the air conditioning equipment manufacturer. The joints shall be installed with the connections on a horizontal plane or with the direction of flow in a vertical plane.

Only synthetic oil compatible with the refrigerant shall be used to lubricate any cutting, reaming and flaring tools.

Only phosphor copper brazing rods shall be used without any flux on the piping joints. The pipe work shall be continuously purged with low pressure nitrogen during all brazing operations.

Simple purging of the refrigerant lines between the indoor and outdoor sections is not acceptable. The lines shall be correctly pressure tested with nitrogen plus a small amount of refrigerant to 3.8 MPa for R410A and left for 24 hours to ensure pressure does not drop. The piping shall then be purged using a vacuum pump to -100 kPa (for more than 2 hours) and ensure that it holds this vacuum for 1 hour to the satisfaction of the engineer. The system shall then be charged in the liquid state with the calculated amount of additional refrigerant by using an accurate charging scale (charging cylinder cannot be used). Only once the system is correctly charged shall the refrigerant valves on the outdoor units be opened.

The pipe work arrangement for multiple outdoor units shall be correctly arranged to meet the equipment manufacturer's requirement.

No ozone depleting substances are to be associated with the manufacture or composition of all thermal insulants.

Refrigerant insulation shall be of closed cell structure and be of the vapour barrier type.

Its thermal conductivity shall be not higher than 0.037 W/m °C and be fire retardant material of Class 1.

11 AIR CONDITIONING RETICULATION – ROOF VOIDS

Reticulation positioned within roof voids may be laid on and supported by the existing timber roof trusses. Suitable hold down clamps must be used at intervals not exceeding 2 metres. The hold down clamps must be fixed to the timber roof trusses using a minimum of two x 4 mm stainless steel wood screws or similar. Care must be taken to ensure sufficient clearance around reticulation to allow for the installation of pre formed thermal insulation. To avoid sagging, refrigerant piping shall be supported on cable trays in every 2m interval. No Ozone Depleting substances are to be associated with either the manufacturer or composition of all thermal insulants in the project.

Where reticulation interferes with other services such as electrical or potable water reticulation the contractor must avoid these services by re-routing the air conditioning reticulation

12 PROGRAMME

The Tenderer shall allow for programming the work in such a manner as to not disrupt the Main Contractor's programme. Sequence of work to suit the Sub Contractor's requirements will not be guaranteed.

The Tenderer shall take note of the fact that this is a new building of buildings and as such interruptions and interference with other building contractors and services will occur. Claims arising out of broken work sequences or agreed programmes changed due to on site requirements will not be considered.

The cost of overtime, additional labour and plant necessary for the completion of the Works in accordance with the programme shall be included in the Air Conditioning Contractor's tender price for the Works.

13 WORK CARRIED OUT BY OTHERS

The following work is excluded from this Contract and will be carried out by others.

- All builders' work including the forming of holes in walls and making good thereafter.
- The cutting of holes in suspended ceilings and ceiling tiles for the fixing of air conditioning equipment.
- The provision of a 400/420V 3ph 50Hz electrical supply to the air conditioning outdoor units.
- The provision of a 230 V 1 Ph 50 Hz electrical supply to all indoor air conditioning units.
- The provision of a chased in 100 x 50 x 50 back box and conduit with draw wire to the ceiling void above to accommodate installation of hard-wired remote controller supplied with each unit.

It is the responsibility of the air conditioning and ventilation contractor to timeously indicate any work that must be performed by others.

14 DESIGN CONDITIONS

Environmental Conditions:

Summer outdoor Design : 30°C dry bulb
: 23.3°C wet bulb
Wet Indoor Design : 7°C wet bulb

Room conditions:

Summer : 22°C ± 1°C
: 50%RH ± 10%
Winter : 21°C ± 1°C
: 50%RH ± 10%

The room temperature shall be adjusted between 20°C and 24°C.

Ventilation Rate:

Fresh air : 7.5l/s per person

Altitude : Sea level

Internal Loads:

Heat load from lights : 20W/m²

Noise level:

The noise level shall not exceed 55dBA when measured at three (3) meters from the source.

Both indoor and outdoor units shall be assembled, tested, and charged with refrigerant at the factory.

15 SYSTEM PERFORMANCE GUARANTEE

The contract shall guarantee that the equipment is installed as per drawings and the performance conditions are maintained as designed.

The contractor shall guarantee that the equipment is installed in a safe and proper manner, equipment above is properly fixed and shall not cause excessive vibration and noise.

The contractor shall also guarantee to supply authentic equipment in terms of material and shall be provide proof thereof on request by the engineer. The contractor shall guarantee to execute the installation in a workmanlike manner that will be ensure that the equipment functions as designed. The contractor shall be notified in writing of any materials that are disapproved and will be given any opportunity to rectify at their own cost. The disapproved will only be accepted on inspection and sign off by Engineer.

16 MAKE OF EQUIPMENT

The drawings, specification and bills of quantities are not brand to suit any particular manufacturer. The contractor must ensure that the equipment selected complies with the specifications, drawings and bills of quantities. Equipment shall be of equivalent quality and performance as stated in this document and drawings.

The contractor must take into account the delivery dates of the selected equipment so that they do not delay the project, lead times must be checked on selection of equipment.

The selected equipment must have local spares and technical support in case of breakdowns.

17 QUALITY CONTROL

The Engineer shall periodically visit the site and inspect the installation unannounced. The Engineer's visit will be to inspect conformity to the drawings and specifications, the Engineer shall issue a list of items that need to be rectified where necessary. The visits will also be an opportunity to clear any uncertainties on sited.

On completion and when necessary, the contractor shall be responsible to supply testing equipment for the installation. All tests must be recorded and adjustments shall be done where necessary.

18 HOISTING

The VRV/VRF condensing unit will mounted on top of the slab of the first floor roof. The contractor needs to make allowance for the hoisting of the condensing unit. The contractor is required to make sure that all Health and Safety regulations and Statutory Regulations are adhered to.

19 VRV/VRF HEAT RECOVERY SYSTEM

The system shall be heat recovery type VRV/VRF system that consists of:

- Ceiling cassette type indoor units,
- Hideaway type indoor unit,
- Wired and unwired remote controllers,
- Branch selector boxes,
- Refrigerant and Condensate Piping,
- And item that will make the installation in a working order as designed.

The refrigerant gas to be used shall R410a.

The refrigerant piping and condensate drain pipes shall be mounted on galvanised wire basket that matches the existing wire basket.

Each indoor unit shall be fitted with a PVC drain system to remove condensate to the positions show on the drawings. The drain pipes for the units shall be fitted with a P-trap and slope towards the drain point, the slope shall not be less than 1:50.

The indoor units shall be fitted with the following:

- Condensate pump
- Washable coarse filters on the return air

The contractor shall be responsible for the final electrical connections of the system, the electrician will provide power to the outdoor unit. The connections between the indoors and the outdoor are the responsibility of the air conditioning contractor.

The compressor shall be of highly efficient scroll type and equipped with inverter control capable of changing the speed in accordance to the cooling or heating load requirement.

The heat exchanger shall be constructed with copper tubes mechanically bonded to aluminium fins to form a cross fin coil. The aluminium fins shall be covered by anti-corrosion resin film,

The refrigerant circuit shall include liquid and gas shut off valves and a solenoid valves. All necessary safety devices shall be provided to ensure the safety operation of the system. The following safety devices shall be part of the outdoor unit,

- High Pressure Switch
- Overload Relay
- Inverter Overload Protector
- Fusible Plugs.

The unit shall be equipped with an oil recovery system to ensure stable operation with long refrigerant piping runs.

Condenser units are suitable for operation at low ambient temperatures

Evaporator and the condenser are to be protected against freezing of the evaporator coil

The cooling fins must be protected against hail with suitably sized perforated galvanized material powder coated the colour of the units.

All fixings shall be galvanized or stainless steel, outdoor units to be mounted on galvanized steel brackets with antivibration pads.

20 **DUCTING**

Ducting will not be insulated as it serves ventilation only.

Ducting shall be manufactured from galvanized sheet steel in accordance with SANS 10173. SMACNA (Sheet Metal and Air Conditioning Contractors National Association Inc. USA, SANS 1238 All ductwork that carries air temperatures below ambient dew point shall be provided with a vapour barrier seal that complies with SANS 10173.

Flexible ducts shall not exceed 1,2m in length.

All supply air ducts shall be pressure tested with a maximum leakage of 5%.

21 **FANS**

The air conditioning and ventilation contractor will be required to service the existing ventilation systems and modifications to the ducting as shown on the drawings.

The building currently has three (3) fans and are described below:

- Fresh air supply ducted fan system serving ground and first floor, situated in the service duct.
- Toilet extraction ducted fan system serving the ground and first floor toilets, situated in the ceiling void of the first floor.
- Toilet extraction ducted fan system serving disabled toilets and female toilets.

A wall mounted plate axial flow fan will be required at first floor as shown on the drawings to remove heat built up. The fan must be fitted with a speed controller.

22 **MODIFICATIONS**

The existing fresh air supply ducted system will be modified to serve the following areas:

- Editing suites at ground floor,
- Multi Film Studio at ground floor,
- Control room and studio at ground floor,
- Open plan space at first floor with grilles as shown on drawings, and
- Drone/Robotics at first floor.



national film and video foundation
SOUTH AFRICA
an agency of the Department of Sport, Arts and Culture

**TENDER DOCUMENT
FOR
THE APPOINTMENT OF A CONTRACTOR TO CARRY
OUT THE PHASE 2 REFURBISHMENT OF THE
EASTERN CAPE FILM HUB
AT
EASTERN CAPE LOCAL CONTENT HUB, 33
CHURCH STREET, QUIGNEY, EAST LONDON**

AIR CONDITIONING AND VENTILATION

ISSUED BY:

NATIONAL FILM AND VIDEO FOUNDATION

TENDER REFERENCE NUMBER: RFT 05 2021-2022

TENDER CLOSING DATE: 7 JANUARY 2022 AT 11H00

NAME OF THE TENDERER: : _____
TEL NUMBER : _____
FAX NUMBER : _____

NATIONAL FILM AND VIDEO FOUNDATION

AIR CONDITIONING AND VENTILATION

PART C

NOVEMBER 2021

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1 SCOPE OF WORK

The scope of work includes the installation of a Variable refrigerant Volume (VRV/VRF) heat recovery type air conditioning system for The Hub Building, 33 Church Street, East London. The installation shall include the servicing and modifications to the existing ventilation systems to suit the new building layout. The VRV/VRF system shall include ceiling cassette type indoor units, hideaway type, refrigerant piping, wire remote controls, branch selector box and any other equipment required to successfully commission the system.

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Refrigerant insulation shall be of closed cell structure and be of the vapour barrier type.

Its thermal conductivity shall be not higher than 0.037 W/m °C and be fire retardant material of Class 1.

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Reticulation positioned within roof voids may be laid on and supported by the existing timber roof trusses. Suitable hold down clamps must be used at intervals not exceeding 2 metres. The hold down clamps must be fixed to the timber roof trusses using a minimum of two x 4 mm stainless steel wood screws or similar. Care must be taken to ensure sufficient clearance around reticulation to allow for the installation of pre formed thermal insulation. To avoid sagging, refrigerant piping shall be supported on cable trays in every 2m interval. No Ozone Depleting substances are to be associated with either the manufacturer or composition of all thermal insulants in the project.

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The noise level shall not exceed 55dBA when measured at three (3) meters from the source.

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17 QUALITY CONTROL

The Engineer shall periodically visit the site and inspect the installation unannounced. The Engineer's visit will be to inspect conformity to the drawings and specifications, the Engineer shall issue a list of items that need to be rectified where necessary. The visits will also be an opportunity to clear any uncertainties on sited.

On completion and when necessary, the contractor shall be responsible to supply testing equipment for the installation. All tests must be recorded and adjustments shall be done where necessary.

18 HOISTING

The VRV/VRF condensing unit will mounted on top of the slab of the first floor roof. The contractor needs to make allowance for the hoisting of the condensing unit. The contractor is required to make sure that all Health and Safety regulations and Statutory Regulations are adhered to.

19 VRV/VRF HEAT RECOVERY SYSTEM

The system shall be heat recovery type VRV/VRF system that consists of:

- Ceiling cassette type indoor units,
- Hideaway type indoor unit,
- Wired and unwired remote controllers,
- Branch selector boxes,
- Refrigerant and Condensate Piping,
- And item that will make the installation in a working order as designed.

The refrigerant gas to be used shall R410a.

The refrigerant piping and condensate drain pipes shall be mounted on galvanised wire basket that matches the existing wire basket.

Each indoor unit shall be fitted with a PVC drain system to remove condensate to the positions show on the drawings. The drain pipes for the units shall be fitted with a P-trap and slope towards the drain point, the slope shall not be less than 1:50.

The indoor units shall be fitted with the following:

- Condensate pump
- Washable coarse filters on the return air

The contractor shall be responsible for the final electrical connections of the system, the electrician will provide power to the outdoor unit. The connections between the indoors and the outdoor are the responsibility of the air conditioning contractor.

The compressor shall be of highly efficient scroll type and equipped with inverter control capable of changing the speed in accordance to the cooling or heating load requirement.

The heat exchanger shall be constructed with copper tubes mechanically bonded to aluminium fins to form a cross fin coil. The aluminium fins shall be covered by anti-corrosion resin film,

The refrigerant circuit shall include liquid and gas shut off valves and a solenoid valves. All necessary safety devices shall be provided to ensure the safety operation of the system. The following safety devices shall be part of the outdoor unit,

- High Pressure Switch
- Overload Relay
- Inverter Overload Protector
- Fusible Plugs.

The unit shall be equipped with an oil recovery system to ensure stable operation with long refrigerant piping runs.

Condenser units are suitable for operation at low ambient temperatures

Evaporator and the condenser are to be protected against freezing of the evaporator coil

The cooling fins must be protected against hail with suitably sized perforated galvanized material powder coated the colour of the units.

All fixings shall be galvanized or stainless steel, outdoor units to be mounted on galvanized steel brackets with antivibration pads.

20 DUCTING

Ducting will not be insulated as it serves ventilation only.

Ducting shall be manufactured from galvanized sheet steel in accordance with SANS 10173. SMACNA (Sheet Metal and Air Conditioning Contractors National Association Inc. USA, SANS 1238 All ductwork that carries air temperatures below ambient dew point shall be provided with a vapour barrier seal that complies with SANS 10173.

Flexible ducts shall not exceed 1,2m in length.

All supply air ducts shall be pressure tested with a maximum leakage of 5%.

21 FANS

The air conditioning and ventilation contractor will be required to service the existing ventilation systems and modifications to the ducting as shown on the drawings.

The building currently has three (3) fans and are described below:

- Fresh air supply ducted fan system serving ground and first floor, situated in the service duct.
- Toilet extraction ducted fan system serving the ground and first floor toilets, situated in the ceiling void of the first floor.
- Toilet extraction ducted fan system serving disabled toilets and female toilets.

A wall mounted plate axial flow fan will be required at first floor as shown on the drawings to remove heat built up. The fan must be fitted with a speed controller.

22 MODIFICATIONS

The existing fresh air supply ducted system will be modified to serve the following areas:

- Editing suites at ground floor,
- Multi Film Studio at ground floor,
- Control room and studio at ground floor,
- Open plan space at first floor with grilles as shown on drawings, and
- Drone/Robotics at first floor.



national film and video foundation
SOUTH AFRICA
an agency of the Department of Sport, Arts and Culture

**TENDER DOCUMENT
FOR
THE APPOINTMENT OF A CONTRACTOR TO CARRY
OUT THE PHASE 2 REFURBISHMENT OF THE
EASTERN CAPE FILM HUB
AT
EASTERN CAPE LOCAL CONTENT HUB, 33 CHURCH
STREET, QUIGNEY, EAST LONDON**

LIFT INSTALLATION

ISSUED BY:

NATIONAL FILM AND VIDEO FOUNDATION

TENDER REFERENCE NUMBER: RFT 05 2021-2022

TENDER CLOSING DATE: 7 JANUARY 2022 AT 11H00

NAME OF THE TENDERER: : _____
TEL NUMBER : _____
FAX NUMBER : _____

PART E

NATIONAL FILM AND VIDEO FOUNDATION

NATIONAL FILM AND VIDEO FOUNDATION: THE HUB BUILDING-
LIFT INSTALLATION

NOVEMBER 2021

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1 SCOPE OF WORKS

The scope of work is the delivery, installation and commissioning of a two (2) stopper disabled electric lift for The Hub Building in East London.

After completion of the works and before first delivery is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installations will be inspected and the Contractor shall make good, to the satisfaction of the Representative / Agent, any defects which may arise.

The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installations at completion.

2 MAINTENANCE OF INSTALLATIONS

With effect from the date of the First Delivery Certificate the Contractor shall at his own expense undertake the regular servicing of the installation during the maintenance period and shall make all adjustments necessary for the correct operation thereof.

The maintenance period shall be twelve (12) months from the date of the First Delivery Certificate.

If during the said period the installation is not in working order for any reason for which the Contractor is responsible, or if the installations develop defects, he shall immediately upon being notified thereof take steps to remedy the defects and make any necessary adjustments.

Should such stoppages however be so frequent as to become troublesome, or should the installations otherwise prove unsatisfactory during the said period the Contractor shall, if called upon by the Representative / Agent or the Director-General, at his own expense replace the whole of the installations or such parts thereof as the Representative/Agent or the Director-General may deem necessary with apparatus specified by the Representative / Agent or the Director-General.

3 REGULATIONS

The installation shall be erected and tested in accordance with the latest issued and amendments of the following Acts and regulations:

- SANS 1543 : Escalators and Passenger Conveyors
- SANS 1545 : Specification for Lifts and Escalators
- SANS 50081-20:2017 : Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods
- SANS 50081-50:2017 : Safety rules for the construction and installation of lifts – Examinations and tests of lifts - Examinations and tests
- SANS10400 Part S : Facilities for persons with disabilities
- SANS 50081-1:2004 : Safety rules for the construction and installation of lifts – electric lifts
- The Occupational Health and Safety Act, 1993 (Act 85 of 1993),
- SANS 10400 : The National Building Regulations
- SANS 10142 Parts 1 & 2 : Code of Practice for the Wiring of Premises
- Local Government Ordinance 1998 (Act 10 of 1998 (Gauteng), municipal by-laws and any special requirements of the local supply authority,

- The Fire Brigade Services Act 2000 (Act 14 of 2000),
- The Electricity Act 1996 (Act 88 of 1996)

4 GENERAL

All workmanship and materials used in the installation shall be of the highest quality. The lift contractor shall be responsible for making good after installation.

5 MATERIALS, SAMPLES AND SHOP DRAWING

- 5.1 The drawings provided with this tender document are general arrangement drawings only. The successful Tenderer shall check all design criteria and submit shop drawings (including builder' for approval which take into consideration available spaces, builders work requirements, access for maintenance purposes etc.
- 5.2 The requirements for proof of compliance with materials specifications, samples and shop drawings are:
- Material specifications
 - Shop drawings
- 5.3 The contractor shall, on certain occasions, be required to provide samples on request by the Engineer.

6 COMMISSIONING AND TESTING

On completion of the installation, it shall be tested to the satisfaction of the Engineer and all results shall be recorded in the Operating and Maintenance manuals.

All balancing and testing shall be carried out by the Contractor entirely at his own expense, and all test instruments shall be checked for accuracy by the Manufacturers, Suppliers, or an approved Laboratory and certified copies of the certificates showing the degree of accuracy shall be supplied to the Engineer, if requested.

Gauges, thermometers, ammeters, and other instruments which form part of the permanent plant may be used for test purposes provided they are certified as accurate.

The Engineer shall have the right to inspect any item of equipment during manufacture or before delivery to site.

The Contractor shall balance, set, and test the entire plant and shall submit the results to the Engineer who shall then carry out spot checks in the presence of the Contractor.

7 ELECTRICAL WIRING

Unless specifically stated otherwise in the project specification, the Contractor shall be responsible for all electrical work and control wiring associated with the air conditioning installation with the exception of the incoming power which will be provided by others. The contractor shall be required to provide a certificate of compliance for any electrical work they have completed under this contract.

All electrical work shall comply with the requirements of the local Municipal Authorities and the Code of Practice for the "Wiring of Premises" SANS 10142, as amended.

8 OPERATING AND MAINTENANCE INSTRUCTIONS

The Contractor shall furnish to the Engineer three bound copies of Operating and Maintenance Instructions prior to the final acceptance of the installation.

The manuals shall include the following:

- Index
- Description of the plant
- Operation of the plant
- Plant and equipment - including model numbers and Suppliers
- Test report
- Maintenance instructions
- Spare parts list
- Descriptive literature that includes equipment testing and commissioning reports
- Record drawings (for all equipment installed and electrical wiring performed by the air conditioning contractor).

9 CAR FINISH SCHEDULE

The disability lift shall have the following finishes:

INTERIOR FINISHES	
Walls	Grey Similinox or approved similar
Ceiling Material	Similinox
LED Bars	LED
Floor	Dark grey safestep series
Handrails	Stainless steel
Door type	RAL 9023
Car Door (Fire rated for 60 minutes)	Similinox or approved similar
Landing door (Fire rated for 60 minutes)	RAL 9023
Operating panel	Grey Similinox

10 REQUIREMENTS FOR THE DISABLED LIFT

ITEM	DESCRIPTION	DESIGN REQUIREMENTS
1.	Lift No.	One (1) off
2.	Service type	Disabled lift
3.	Lift type	Electric
4.	Number of stops	Two (2)
5.	Structure	Steel Structure
6.	Enclosure	Glass enclosure
7.	Roof Section	Sky-light
8.	Shaft size	1800x2150mm
9.	Headroom	4100mm
10.	Capacity (kg/person)	450kg
11.	Travel Speed	0.15m/s
12.	Machinery location	Pit
13.	Machinery	Geared belt driven
14.	Shaft light type	LED light
15.	Power supply	Single phase

16.	Lock type	Electromechanical locks
17.	Emergency Stop button	In cabin push button
18.	Door opening	800mm
19.	Shaft ventilation	yes
20.	Type of shaft	Steel Structure
21.	Panel type and design	Grey Similinox
22.	Panel features	I-button, Emergency stop button, machine activation key

11 DISABLED LIFT DETAILS

11.1 Machine

The machinery shall be geared and belt driven with electromechanical locks. Due to the low speed of 0.15m/s, counterweights shall not be necessary.

11.2 Controller

Provide re-programmable solid-state operation and motion controller to control the operation, the starting, the stopping, the speed of the lift motor and to apply the brake automatically if any of the safety devices operate or the power fails. The lift must come with its own battery back up for when there is no power and must be suitable to connect to the existing generator.

All wearing parts must be easily renewable, and flexible connections must be used for all moving contacts. Springs or moveable joints shall not be current carrying.

The controller must incorporate all switchgear, relays and other equipment necessary for the operation and protection of the lift, and must be so designed that the car will automatically be brought to a stop in the event of:

- Interruption of the main power supply or the interruption of any one phase of the main supply, or if a phase reversal of the main supply has occurred.
- Operation of the governor due to over-speed.
- The operation of the final limit switches.
- The interruption of the floor selector drive protection switch.

The controller shall be provided with adequate suppression devices to eliminate radio and television interference.

The controller and brake may operate on direct current obtained from a rectifier or auxiliary motor generator set.

All terminals of the machinery and control gear shall be marked with distinctive letters or numbers, and corresponding markings shall appear on the contract drawings.

11.2 Brake

The main brake shall be spring applied and electrically released by direct current. The main brake shall have sufficient power to hold the car at any landing with the normal amount of counterbalancing

The brake shall operate in the event of a power failure or the operation of any other safety device designed to stop the lifts.

11.3 Electrical Safety Devices

The disabled lift shall be fitted with on-board emergency push-button connected with an audible alarm and pre-set numbers which could be integrated to telephone dial pad. It shall be fitted with the following features:

- Thermal circuit breaker on the inverter
- Landing limit switch
- Over-run microswitch
- Pit and headroom under safety microswitches that inhibit the controls in the cabin and floor when activated
- Belt slackening/breaking safety devices
- Auxiliary circuit and supply circuit in separate cables
- Electric driving locks
- Safety microswitch for approved door release control
- On board anti blackout descent
- On board emergency lights
- Display of floor reached on the display of the lifting platform and at the floor
- Timed cabin lights.
- Traction belt slackening control
- Overload control and machine blockage in overload conditions

11.4 Mounting of Disable Lift

The Contractor shall supply and install all structural beams, plates, gussets etc. for the mounting of the machine in the lift shaft as well as supporting structures for deflectors and secondary pulleys as required.

Anti-vibration mountings shall be provided to minimise the transmission of vibrations to the structure and to ensure the silent and smooth operation of all the equipment. Tenderers shall describe the methods to be used to achieve the desired results.

11.5 Governor

An over-speed governor, driven directly by an independent rope attached to the car, shall be provided in the motor room and shall be designed to operate the safety gear fitted to the car when the speed of the car, due to any cause, exceeds its normal maximum speed by more than a predetermined value. The tripping speed of the governor shall be selected with due regard to the contract speed. The tripping speed shall be approximately inversely proportional to the contract speed and shall for contract speeds ranging from 0,25m/s to 5,0m/s not exceed the contract speed by more than 40% and 20% respectively.

The governor shall be provided with control switches which shall be wired into the control circuits to shut off the power supply to the drive motor and brake before or at the same time that the safety gear is operated.

12 DISABLED LIFT SHAFT EQUIPMENT

12.1 Guide rails and Roller Shoes

The guide rails for the car and counterweight shall consist of planed steel tees with milled, tongued and grooved joints. Metal splice plates shall be of a suitable length and fixing brackets for guide rails shall be provided at intervals not exceeding 2,4m. Guide rail fixings shall be located in such positions that when the car is at any landing, the guide shoes on the car will be at a fixing bracket. The bottom end of each guide rail shall be provided with a sole-plate fixed to the pit floor.

All brackets shall be secured by means of approved expandable concrete anchor bolts of adequate size and length.

If the speed and load nominated allows and guide rollers are not required, provide car and counterweight spring loaded shoe guides. The spring tension shall be adjusted so as to maintain the lift in the centre of the rails and provide continuous contact with the corresponding rail surface under all conditions of loading and operation. The shoe guides shall be lined with a durable resilient material, which shall ensure a quiet and smooth ride.

12.2 Ropes/Belts

Ropes/belts shall be of the best quality and of suitable number, size and manufacture to ensure proper operation of the lifts, and to give satisfactory wearing qualities. All ropes shall consist of at least six strands wound round a hemp core centre, and shall comply with BS 5655-6:2011 & BS 7255:2012. Rope tension equalisers shall be provided and shall be so designed that each rope can be individually adjusted. Equalisers reducing the suspension to a single bolt or shaft will not be acceptable.

Alternatively, the car shall be suspended by flat construction, polyurethane coated belts of a suitable number to provide a minimum safety factor of 12.

12.3 Over-travel Protection

Normal and final terminal stopping switches shall be provided in the hoist way, which shall be operated independently of each other by the car. The switches shall respectively be arranged to stop the car and prevent its normal operation should it travel beyond the zone of the normal stopping device at the upper and lower terminal floors, or travel within the top and bottom clearance with the buffers operative.

12.4 Stop Switch in Pit

A watertight stop switch shall be provided in the pit of the lift in a position that can be reached from the lower landing and the pit floor.

13 LIFT CAR

13.1 Construction

The lift car shall be an assembly consisting of the sling, the platform and the cabin.

The sling shall be constructed of rolled steel angle or channel sections bolted or welded together to form a rigid framework that shall be suitably braced and reinforced to withstand the operation of the safety gear without permanent distortion.

The car platform shall consist of a 3mm thick mild steel plate or 20mm thick hardwood floor, laid on closely spaced steel channel sections welded to a steel frame that in turn shall be laid on rubber pads in a structural steel frame. Load weighing devices shall be incorporated where specified. The car platform is to be equipped with a non skid threshold plate manufactured from solid aluminium.

The floor shall be finished with a high quality durable material as specified in the finishing schedule below.

The cabin shall be designed as a fully enclosed car with a flat roof and solid full height panels on

the sides and the back. The back of the cabin shall be specially reinforced to prevent damage to the panels when bumped by trolleys.

The solid panels shall be constructed from 1,6mm thick folded sheet steel clad with panels on the inside of the material specified in the finishing schedule below. The front return panels, entrance columns, stiles and trimmings shall be manufactured from solid 1,6mm thick stainless steel with a brushed satin finish.

The cabin shall be securely fixed to its sling and platform in such a manner that the cabin is not subjected to strains in event of an unequal distribution of load occurring over the floor area.

Two robust handrails (1 at 250AFFL and 1 at 1000AFFL), as specified in the finishing schedule, shall be spaced 50mm off the panelling must be provided across the rear and side walls of the lift car. The spacer blocks to which the hand and bumper rails are secured shall be fixed to the panels by means of 2 x M10 bolts with locknuts or other approved method.

The car ceiling shall be perforated brushed stainless steel

In addition to the above, the following features shall also be embodied in the car:

- A silent running electric fan for ventilation of car with a capacity of at least 750m³/h.
- Luminous car position indicator and "Up/Down" travel indicators installed above the entrance doors or within the car operating panel.
- Fixing clips for the attachment of canvas protective coverings which shall be supplied with the lift for the side and rear walls.
- An alarm bell with a 150mm diameter dome and 230V, AC coil shall be mounted under the car.
- Wiring and facility for the future installation of CCTV equipment.

A timber work platform, on which the serviceman can stand whilst travelling or working on the shaft or car equipment, shall be provided over as large an area as practically possible, on top of the lift car.

The inspection certificate for the lift shall be installed in a suitable frame in the machine room.

The successful Tenderer will be required to submit a detailed sketch indicating the proposed design for the car after discussions with the Architect and Engineer. The approved sketch design shall then be changed into a working drawing that shall be submitted for final approval before manufacture is commenced.

13.2 Car Doors

The disabled lift shall be fitted with a single speed automatic, horizontally sliding, panel type doors as called for in section 10 above.

A closed loop variable frequency-controlled door operator shall be provided to drive the car and landing doors fully automatically. The open and close speeds shall be programmable via a test tool.

The time interval for which the lift doors remain open when the car stops at a landing shall be independently adjustable for response to car calls and to hall calls.

The automatic car doors shall be of similar construction as the automatic landing doors. The doors shall be suspended on machined and polished tracks by means of rubber or nylon tyre hangers and shall be operated by automatic motorised door drive units which shall simultaneously open or close the car and landing doors. Finishes shall be as per finishing schedule below.

The car and landing doors shall be interlocked by means of electro mechanical locks so arranged that no landing door can be opened unless the car is opposite the landing. It shall not be possible for the lift machine to operate unless all doors are closed, or for the landing doors to be opened while the lift is travelling, except under levelling conditions. In the event of a power failure it shall be possible to open

the doors from inside the car, provided it has been stopped within reach for manual operation of the landing door locking devices. All electro mechanical interlocks are to be of a substantial construction to be able to withstand the impact of repeated opening and closing cycles, and shall be adequately enclosed to prevent accidental contact with persons using the lifts.

A "door open" pushbutton must be provided in the car operating panel to enable the closing of doors to be stopped and reversed if required

13.3 Proximity Detectors

In the event of the door being obstructed during closing, re-opening will occur by way of a motor slip detection device.

The lift car shall be provided with a proximity detection system that shall control the opening and closing of the doors.

The system shall consist of an electric infra-red screen curtain or other approved detector that shall sense movement of a person, with or without a trolley. It shall provide protection across the full width and height of the entrance. The sensing distance in front of the doors shall be adjustable from 0,5m to 1,5m. A time delay shall be provided to keep the doors open for a period adjustable between 5s and 10s to allow passengers with trolleys to enter the lift. The time delay shall be overridden by the "Door Close" pushbutton in the car.

13.4 Automatic Levelling

The lifts shall be provided with a self-levelling feature, which will automatically bring the car to rest level with the floor landings, within a maximum tolerance of 3,0mm under all conditions of load.

The door operator of the automatic doors shall start functioning when the car reaches the levelling zone so that the doors are fully open when the car has been levelled with the landing.

14 LANDING EQUIPMENT

14.1 Landing Doors

The landing doors shall be of the automatic, power operated, horizontally sliding panel type and shall be constructed of not less than 1,6mm thick brushed satin finished, stainless steel sheet folded to form a rectangular shaped dished panel with double returns along each side to facilitate the attachment of locking devices and the fitting of fire-resistant material. All joints shall be welded and rendered flush and smooth. The panels shall be suitably reinforced to ensure rigidity and quiet operation.

All joints shall be welded and rendered flush and smooth. The exterior surfaces shall be provided with a dull satin brushed finish.

The door panels shall be hung on ball bearing tyre sheave hangers running in a smooth polished steel track and guided at the bottom by approved type non-metallic shoes sliding in smooth machined sill and threshold grooves.

14.2 Landing Sills and Frames

Solid extruded aluminium sills with anti-slip treads are to be provided at all landing entrances. The sills must be firmly fixed to the building structure and must line up with the final floor finish. No floor nibs are provided in the shafts and the Contractor shall provide angle iron sill supports where required.

Architraves, where required, shall be of simple and attractive design, and manufactured from 1,6mm thick brushed satin finished stainless steel sheet as specified for the landing doors, and shall consist of head and splayed jamb sections to suit the wall thickness and finishes. The shape of architraves and frames shall either be radiused or chamfered. Shop drawings of the architraves shall be provided for approval by the Architect prior to manufacture.

The basic tender price shall allow for brushed stainless steel architraves and frames finished as specified for landing doors.

Frames are to be securely fastened to sills and will be built in by the Principal Contractor after having been accurately located in position by the Contractor. The Contractor shall ensure that the doorframes are suitably braced vertically and horizontally by means of timber props to prevent moving of the sides and top of the frames whilst they are being built in. The concrete or mortar filling shall be done thoroughly so as to prevent the formation of voids.

Fascia plates of substantial construction shall be firmly secured to the sills and shaft walls, and shall be installed at all landing entrances, in accordance with the requirements of the Occupational Health and Safety Act, Act No. 85 of 1993, as amended to date.

14.3 Indicators

Digital (numeric) floor indicator panels shall be installed at each landing. These panels shall be located centrally above the landing doors and shall incorporate the up and down direction indicators in the left- and right-hand slides respectively and a floor number indicator in the central slide. Prior to stopping at a landing, the arrow indicating the direction of the travel of the car, shall become illuminated.

A single stroke pre arrival gong shall be installed flush in the head of the doorframe directly below the floor indicator panel. The gong shall sound when the lift is about to stop at a landing. The horizontal portion of the doorframe behind which the gong is mounted shall be die punched with a series of narrow slots to ensure that the sound from the gong penetrates clearly into the lift lobby.

14.4 Call-Buttons

Each terminal landing shall be provided with a single push button unit and each intermediate landing with a button unit comprising up and down push buttons. When pushed, the buttons shall illuminate and remain illuminated until the call is answered. Illumination shall be by means of LED's and shall be colour coded GREEN for UP and RED for DOWN.

"Up" call buttons: Use an arrow symbol in the "Up" direction

"Down" call buttons: Use an arrow symbol in the "Down" direction

Provision shall also be made at all landing panels for blind persons to independently recognise the landing floor and call the lift. All call buttons shall be provided with Braille letters/numbers.

14.5 Service Required Indicator

The direction of the travel indicator panel for each lift shall incorporate a service indicator which shall be activated from the motor room when the lift is being serviced. On activation, the wording "Lift being serviced/Hyser word gediens" shall be clearly illuminated.

14.6 Out of Order Indicator

The lift shall be provided with a "lift out of order" indicator lamp. The indicator lamp shall be mounted in a small surface or flush mounted panel that is to be installed in the central control room together with the intercom unit described. Wiring from the lift motor room to the indicator panel will be installed by others together with the intercom wiring.

14.7 Signage

"NO SMOKING" signs in accordance with SANS 1186 and of approved size shall be mounted above the call buttons on each floor.

15 DISABLED LIFT OPERATION

15.1 Normal Operation

The lift is designated to be operated by people of disability only and shall operate from ground floor to first floor and back.

All stops registered by the pressing of a car button shall be made in the order in which landings are reached after the buttons have been pressed and irrespective of the direction of travel. Calls registered by landing buttons shall be made in the order in which landings are reached in each direction of travel after the buttons have been pressed. "Up" landing calls shall be answered when the car is travelling in the up direction, and "down" landing calls when the car is travelling in the down direction, except in the case of the terminal landing calls, which shall be answered as soon as they are reached.

15.2 Power Failure

The disabled lift should come with its own back up power in the event of a power failure. It must also be compatible to receive power from a diesel generator that is existing on site.

16 SCHEDULE OF INFORMATION

The tenderer is required to complete the schedule of information that is tabulated below.

Item	Description	Details
1	Manufacturer's name	
2	Country of origin	
3	% South African manufacture	
4	Performance	
a)	Car speed in m/s	
b)	Average round trip time	
c)	Maximum carrying capacity of each lift car	
d)	Average waiting time after registration of a landing call	
5	Main Hoist Motor	
a)	Maker's name	
b)	Type	
c)	Rated output (kW)	
d)	Time rating (starts/hr)	
e)	Manufacturing standard and safety codes	
f)	Maximum speed (RPM)	
g)	Rated voltage (Volts)	
h)	Full load current (Amps)	
i)	Starting current (Amps)	
j)	Type of bearings	
k)	Maximum line current with lift starting with full contract load (Amps)	
6	Type of Brake	
7	Gearing	
a)	Material of worm	
b)	Material of wormwheel	
c)	Type of thrust bearings	
d)	Ratio of gearing	
e)	Type of wormshaft bearings	
f)	Worm above or below wheel	
8	Drive	
a)	Diameter of traction sheave (rope centres)	
b)	Type of grooving used on traction sheave	

c)	Type of bearing for sheave shaft	
d)	Diameter of smallest deflector pulley used	
e)	Type of grooves provided on deflector pulleys	
f)	Type of bearings for deflector pulleys	
g)	Means provided for absorption of vibration	
9	Switchgear and Control System	
a)	Make of main circuit breaker	
b)	Rupturing capacity of main circuit breaker (kA)	
c)	Type of control system	
d)	Control voltage	
e)	Make of contactors	
f)	Make of control relays	
g)	Contact materials used for auxiliary and main contacts of controller switchgear	
h)	Type of selector	
i)	Make of programmable controller	
10	Car and Doors	
a)	Mass of complete car with doors and operating gear (kg)	
b)	Nett inside dimensions(width x depth x height) in mm	
c)	Thickness of material of car and landing doors	
d)	Finish of car and landing doors	
e)	Clear width and height of car and landing entrances	
f)	Type of door drive mechanism offered	
g)	Type of suspension used for car and landing doors	
h)	Type of proximity detectors	
	1) For passengers approaching from landing	
	2) For passengers leaving lift car	
i)	Type of material used for inside finishes of car (i.e. panels, ceiling trim)	
j)	Thickness and type of floorboards and floor covering	
k)	How is car and platform isolated from supporting structure?	
l)	Are car panels treated externally for sound absorption?	
m)	Door speed:	
	1) Normal (m/min)	

	2) On force closing (m/min)	
11	Ropes	
a)	Maker's name	
b)	Diameter of ropes (mm)	
c)	Number of main ropes	
d)	Breaking load of each rope (kN)	
e)	Maximum working load of each rope	
f)	Factor of safety	
g)	Tensile strength of steel used (MPa)	
h)	Number of strands in rope	
i)	Number of wires per strand	
j)	Construction and lay of rope	
k)	Type of rope fastening used	
l)	System of roping (i.e. 2:1 or 1:1, single or double wrap)	
12	Counterweight	
a)	Total mass (kg)	
b)	Percentage of live load counter balanced (%)	
13	Guide Rails	
a)	Type and section	
b)	Mass per metre-length (kg) for:	
	1) Car	
	2) Counterweight	
14	Roller Shoes	
a)	Type	
b)	Material of tyres for roller type guides	

15	Buffers	
a)	Type	
b)	Length of stroke	
16	Deviations from Specification: Does the equipment offered comply strictly with the specification (Yes/No)	

If answer to 16 above is NO tenderers shall give full details of all deviations between the offered and specified equipment hereunder:

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TENDERER'S NAME :

TENDERER'S ADDRESS :

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TENDERER'S SIGNATURE :

(Authorised Signatory)

DATE :

Telephone Number :

Facsimile Number :

Cell Number :

17 PRICING

17.1 General Requirements

Tenderers are required to submit separate prices for each item of equipment broken-down as called for in the table below. The tender prices shall include the cost of 12 month's free maintenance and shall also allow for the payment of all import duties on all imported items.

17.2 Deliveries

Tenderers shall quote their earliest delivery periods in the Price Schedules to facilitate adjustment of the building program, if so required.

17.3 Maintenance Contract

Please note that the Comprehensive Maintenance Contract must be signed before the final delivery can take place. It is recommended that if the building owner accepts a maintenance contract it should be signed one month prior the final delivery date is scheduled.

17.4 Materials offered ex import

Tenderers shall submit the information called for in Annexure A, "Materials Offered Ex-Import" included after the Price Schedule, in connection with all material to be imported for the execution of the contract. The tender must be based on current prices confirmed by the tenderer's overseas supplier.

Payment will be made in South African currency to the successful tenderer in South Africa only.

17.5 Detailed Breakdown

Furnish the following details for each lift.

DISABLED LIFT	LOCAL CONTENT (EXCLUDING VAT)	IMPORTED CONTENT (EXCLUDING VAT)	DELIVERY (WEEKS)	INSTALLATION DURATION
Lift 1				
TOTAL				

Tenderer to indicate ceiling price for the Lift 1, _____

NAME OF TENDERER

.....

ADDRESS

.....

DATE

Signature of Tenderer

.....



national film and video foundation
 SOUTH AFRICA
 an agency of the Department of Sport, Arts and Culture

**TENDER DOCUMENT
 FOR
 THE APPOINTMENT OF A CONTRACTOR TO CARRY
 OUT THE PHASE 2 REFURBISHMENT OF THE
 EASTERN CAPE FILM HUB
 AT
 EASTERN CAPE LOCAL CONTENT HUB, 33 CHURCH
 STREET, QUIGNEY, EAST LONDON**

LIFT INSTALLATION

ISSUED BY:

NATIONAL FILM AND VIDEO FOUNDATION

TENDER REFERENCE NUMBER: RFT 05 2021-2022

TENDER CLOSING DATE: 7 JANUARY 2022 AT 11H00

NAME OF THE TENDERER: : _____
TEL NUMBER : _____
FAX NUMBER : _____

PART E

NATIONAL FILM AND VIDEO FOUNDATION

NATIONAL FILM AND VIDEO FOUNDATION: THE HUB BUILDING-
LIFT INSTALLATION

NOVEMBER 2021

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1 SCOPE OF WORKS

The scope of work is the delivery, installation and commissioning of a two (2) stopper disabled electric lift for The Hub Building in East London.

After completion of the works and before first delivery is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installations will be inspected and the Contractor shall make good, to the satisfaction of the Representative / Agent, any defects which may arise.

The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installations at completion.

2 MAINTENANCE OF INSTALLATIONS

With effect from the date of the First Delivery Certificate the Contractor shall at his own expense undertake the regular servicing of the installation during the maintenance period and shall make all adjustments necessary for the correct operation thereof.

The maintenance period shall be twelve (12) months from the date of the First Delivery Certificate.

If during the said period the installation is not in working order for any reason for which the Contractor is responsible, or if the installations develop defects, he shall immediately upon being notified thereof take steps to remedy the defects and make any necessary adjustments.

Should such stoppages however be so frequent as to become troublesome, or should the installations otherwise prove unsatisfactory during the said period the Contractor shall, if called upon by the Representative / Agent or the Director-General, at his own expense replace the whole of the installations or such parts thereof as the Representative/Agent or the Director-General may deem necessary with apparatus specified by the Representative / Agent or the Director-General.

3 REGULATIONS

The installation shall be erected and tested in accordance with the latest issued and amendments of the following Acts and regulations:

- SANS 1543 : Escalators and Passenger Conveyors
- SANS 1545 : Specification for Lifts and Escalators
- SANS 50081-20:2017 : Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods
- SANS 50081-50:2017 : Safety rules for the construction and installation of lifts – Examinations and tests of lifts - Examinations and tests
- SANS10400 Part S : Facilities for persons with disabilities
- SANS 50081-1:2004 : Safety rules for the construction and installation of lifts – electric lifts
- The Occupational Health and Safety Act, 1993 (Act 85 of 1993),
- SANS 10400 : The National Building Regulations
- SANS 10142 Parts 1 & 2 : Code of Practice for the Wiring of Premises
- Local Government Ordinance 1998 (Act 10 of 1998 (Gauteng), municipal by-laws and any special requirements of the local supply authority,

- The Fire Brigade Services Act 2000 (Act 14 of 2000),
- The Electricity Act 1996 (Act 88 of 1996)

4 GENERAL

All workmanship and materials used in the installation shall be of the highest quality. The lift contractor shall be responsible for making good after installation.

5 MATERIALS, SAMPLES AND SHOP DRAWING

- 5.1 The drawings provided with this tender document are general arrangement drawings only. The successful Tenderer shall check all design criteria and submit shop drawings (including builder' for approval which take into consideration available spaces, builders work requirements, access for maintenance purposes etc.
- 5.2 The requirements for proof of compliance with materials specifications, samples and shop drawings are:
- Material specifications
 - Shop drawings
- 5.3 The contractor shall, on certain occasions, be required to provide samples on request by the Engineer.

6 COMMISSIONING AND TESTING

On completion of the installation, it shall be tested to the satisfaction of the Engineer and all results shall be recorded in the Operating and Maintenance manuals.

All balancing and testing shall be carried out by the Contractor entirely at his own expense, and all test instruments shall be checked for accuracy by the Manufacturers, Suppliers, or an approved Laboratory and certified copies of the certificates showing the degree of accuracy shall be supplied to the Engineer, if requested.

Gauges, thermometers, ammeters, and other instruments which form part of the permanent plant may be used for test purposes provided they are certified as accurate.

The Engineer shall have the right to inspect any item of equipment during manufacture or before delivery to site.

The Contractor shall balance, set, and test the entire plant and shall submit the results to the Engineer who shall then carry out spot checks in the presence of the Contractor.

7 ELECTRICAL WIRING

Unless specifically stated otherwise in the project specification, the Contractor shall be responsible for all electrical work and control wiring associated with the air conditioning installation with the exception of the incoming power which will be provided by others. The contractor shall be required to provide a certificate of compliance for any electrical work they have completed under this contract.

All electrical work shall comply with the requirements of the local Municipal Authorities and the Code of Practice for the "Wiring of Premises" SANS 10142, as amended.

8 OPERATING AND MAINTENANCE INSTRUCTIONS

The Contractor shall furnish to the Engineer three bound copies of Operating and Maintenance Instructions prior to the final acceptance of the installation.

The manuals shall include the following:

- Index
- Description of the plant
- Operation of the plant
- Plant and equipment - including model numbers and Suppliers
- Test report
- Maintenance instructions
- Spare parts list
- Descriptive literature that includes equipment testing and commissioning reports
- Record drawings (for all equipment installed and electrical wiring performed by the air conditioning contractor).

9 CAR FINISH SCHEDULE

The disability lift shall have the following finishes:

INTERIOR FINISHES	
Walls	Grey Similinox or approved similar
Ceiling Material	Similinox
LED Bars	LED
Floor	Dark grey safestep series
Handrails	Stainless steel
Door type	RAL 9023
Car Door (Fire rated for 60 minutes)	Similinox or approved similar
Landing door (Fire rated for 60 minutes)	RAL 9023
Operating panel	Grey Similinox

10 REQUIREMENTS FOR THE DISABLED LIFT

ITEM	DESCRIPTION	DESIGN REQUIREMENTS
1.	Lift No.	One (1) off
2.	Service type	Disabled lift
3.	Lift type	Electric
4.	Number of stops	Two (2)
5.	Structure	Steel Structure
6.	Enclosure	Glass enclosure
7.	Roof Section	Sky-light
8.	Shaft size	1800x2150mm
9.	Headroom	4100mm
10.	Capacity (kg/person)	450kg
11.	Travel Speed	0.15m/s
12.	Machinery location	Pit
13.	Machinery	Geared belt driven
14.	Shaft light type	LED light
15.	Power supply	Single phase

16.	Lock type	Electromechanical locks
17.	Emergency Stop button	In cabin push button
18.	Door opening	800mm
19.	Shaft ventilation	yes
20.	Type of shaft	Steel Structure
21.	Panel type and design	Grey Similinox
22.	Panel features	I-button, Emergency stop button, machine activation key

11 DISABLED LIFT DETAILS

11.1 Machine

The machinery shall be geared and belt driven with electromechanical locks. Due to the low speed of 0.15m/s, counterweights shall not be necessary.

11.2 Controller

Provide re-programmable solid-state operation and motion controller to control the operation, the starting, the stopping, the speed of the lift motor and to apply the brake automatically if any of the safety devices operate or the power fails. The lift must come with its own battery back up for when there is no power and must be suitable to connect to the existing generator.

All wearing parts must be easily renewable, and flexible connections must be used for all moving contacts. Springs or moveable joints shall not be current carrying.

The controller must incorporate all switchgear, relays and other equipment necessary for the operation and protection of the lift, and must be so designed that the car will automatically be brought to a stop in the event of:

- Interruption of the main power supply or the interruption of any one phase of the main supply, or if a phase reversal of the main supply has occurred.
- Operation of the governor due to over-speed.
- The operation of the final limit switches.
- The interruption of the floor selector drive protection switch.

The controller shall be provided with adequate suppression devices to eliminate radio and television interference.

The controller and brake may operate on direct current obtained from a rectifier or auxiliary motor generator set.

All terminals of the machinery and control gear shall be marked with distinctive letters or numbers, and corresponding markings shall appear on the contract drawings.

11.2 Brake

The main brake shall be spring applied and electrically released by direct current. The main brake shall have sufficient power to hold the car at any landing with the normal amount of counterbalancing

The brake shall operate in the event of a power failure or the operation of any other safety device designed to stop the lifts.

11.3 Electrical Safety Devices

The disabled lift shall be fitted with on-board emergency push-button connected with an audible alarm and pre-set numbers which could be integrated to telephone dial pad. It shall be fitted with the following features:

- Thermal circuit breaker on the inverter
- Landing limit switch
- Over-run microswitch
- Pit and headroom under safety microswitches that inhibit the controls in the cabin and floor when activated
- Belt slackening/breaking safety devices
- Auxiliary circuit and supply circuit in separate cables
- Electric driving locks
- Safety microswitch for approved door release control
- On board anti blackout descent
- On board emergency lights
- Display of floor reached on the display of the lifting platform and at the floor
- Timed cabin lights.
- Traction belt slackening control
- Overload control and machine blockage in overload conditions

11.4 Mounting of Disable Lift

The Contractor shall supply and install all structural beams, plates, gussets etc. for the mounting of the machine in the lift shaft as well as supporting structures for deflectors and secondary pulleys as required.

Anti-vibration mountings shall be provided to minimise the transmission of vibrations to the structure and to ensure the silent and smooth operation of all the equipment. Tenderers shall describe the methods to be used to achieve the desired results.

11.5 Governor

An over-speed governor, driven directly by an independent rope attached to the car, shall be provided in the motor room and shall be designed to operate the safety gear fitted to the car when the speed of the car, due to any cause, exceeds its normal maximum speed by more than a predetermined value. The tripping speed of the governor shall be selected with due regard to the contract speed. The tripping speed shall be approximately inversely proportional to the contract speed and shall for contract speeds ranging from 0,25m/s to 5,0m/s not exceed the contract speed by more than 40% and 20% respectively.

The governor shall be provided with control switches which shall be wired into the control circuits to shut off the power supply to the drive motor and brake before or at the same time that the safety gear is operated.

12 DISABLED LIFT SHAFT EQUIPMENT

12.1 Guide rails and Roller Shoes

The guide rails for the car and counterweight shall consist of planed steel tees with milled, tongued and grooved joints. Metal splice plates shall be of a suitable length and fixing brackets for guide rails shall be provided at intervals not exceeding 2,4m. Guide rail fixings shall be located in such positions that when the car is at any landing, the guide shoes on the car will be at a fixing bracket. The bottom end of each guide rail shall be provided with a sole-plate fixed to the pit floor.

All brackets shall be secured by means of approved expandable concrete anchor bolts of adequate size and length.

If the speed and load nominated allows and guide rollers are not required, provide car and counterweight spring loaded shoe guides. The spring tension shall be adjusted so as to maintain the lift in the centre of the rails and provide continuous contact with the corresponding rail surface under all conditions of loading and operation. The shoe guides shall be lined with a durable resilient material, which shall ensure a quiet and smooth ride.

12.2 Ropes/Belts

Ropes/belts shall be of the best quality and of suitable number, size and manufacture to ensure proper operation of the lifts, and to give satisfactory wearing qualities. All ropes shall consist of at least six strands wound round a hemp core centre, and shall comply with BS 5655-6:2011 & BS 7255:2012. Rope tension equalisers shall be provided and shall be so designed that each rope can be individually adjusted. Equalisers reducing the suspension to a single bolt or shaft will not be acceptable.

Alternatively, the car shall be suspended by flat construction, polyurethane coated belts of a suitable number to provide a minimum safety factor of 12.

12.3 Over-travel Protection

Normal and final terminal stopping switches shall be provided in the hoist way, which shall be operated independently of each other by the car. The switches shall respectively be arranged to stop the car and prevent its normal operation should it travel beyond the zone of the normal stopping device at the upper and lower terminal floors, or travel within the top and bottom clearance with the buffers operative.

12.4 Stop Switch in Pit

A watertight stop switch shall be provided in the pit of the lift in a position that can be reached from the lower landing and the pit floor.

13 LIFT CAR

13.1 Construction

The lift car shall be an assembly consisting of the sling, the platform and the cabin.

The sling shall be constructed of rolled steel angle or channel sections bolted or welded together to form a rigid framework that shall be suitably braced and reinforced to withstand the operation of the safety gear without permanent distortion.

The car platform shall consist of a 3mm thick mild steel plate or 20mm thick hardwood floor, laid on closely spaced steel channel sections welded to a steel frame that in turn shall be laid on rubber pads in a structural steel frame. Load weighing devices shall be incorporated where specified. The car platform is to be equipped with a non skid threshold plate manufactured from solid aluminium.

The floor shall be finished with a high quality durable material as specified in the finishing schedule below.

The cabin shall be designed as a fully enclosed car with a flat roof and solid full height panels on

the sides and the back. The back of the cabin shall be specially reinforced to prevent damage to the panels when bumped by trolleys.

The solid panels shall be constructed from 1,6mm thick folded sheet steel clad with panels on the inside of the material specified in the finishing schedule below. The front return panels, entrance columns, stiles and trimmings shall be manufactured from solid 1,6mm thick stainless steel with a brushed satin finish.

The cabin shall be securely fixed to its sling and platform in such a manner that the cabin is not subjected to strains in event of an unequal distribution of load occurring over the floor area.

Two robust handrails (1 at 250AFFL and 1 at 1000AFFL), as specified in the finishing schedule, shall be spaced 50mm off the panelling must be provided across the rear and side walls of the lift car. The spacer blocks to which the hand and bumper rails are secured shall be fixed to the panels by means of 2 x M10 bolts with locknuts or other approved method.

The car ceiling shall be perforated brushed stainless steel

In addition to the above, the following features shall also be embodied in the car:

- A silent running electric fan for ventilation of car with a capacity of at least 750m³/h.
- Luminous car position indicator and "Up/Down" travel indicators installed above the entrance doors or within the car operating panel.
- Fixing clips for the attachment of canvas protective coverings which shall be supplied with the lift for the side and rear walls.
- An alarm bell with a 150mm diameter dome and 230V, AC coil shall be mounted under the car.
- Wiring and facility for the future installation of CCTV equipment.

A timber work platform, on which the serviceman can stand whilst travelling or working on the shaft or car equipment, shall be provided over as large an area as practically possible, on top of the lift car.

The inspection certificate for the lift shall be installed in a suitable frame in the machine room.

The successful Tenderer will be required to submit a detailed sketch indicating the proposed design for the car after discussions with the Architect and Engineer. The approved sketch design shall then be changed into a working drawing that shall be submitted for final approval before manufacture is commenced.

13.2 Car Doors

The disabled lift shall be fitted with a single speed automatic, horizontally sliding, panel type doors as called for in section 10 above.

A closed loop variable frequency-controlled door operator shall be provided to drive the car and landing doors fully automatically. The open and close speeds shall be programmable via a test tool.

The time interval for which the lift doors remain open when the car stops at a landing shall be independently adjustable for response to car calls and to hall calls.

The automatic car doors shall be of similar construction as the automatic landing doors. The doors shall be suspended on machined and polished tracks by means of rubber or nylon tyre hangers and shall be operated by automatic motorised door drive units which shall simultaneously open or close the car and landing doors. Finishes shall be as per finishing schedule below.

The car and landing doors shall be interlocked by means of electro mechanical locks so arranged that no landing door can be opened unless the car is opposite the landing. It shall not be possible for the lift machine to operate unless all doors are closed, or for the landing doors to be opened while the lift is travelling, except under levelling conditions. In the event of a power failure it shall be possible to open

the doors from inside the car, provided it has been stopped within reach for manual operation of the landing door locking devices. All electro mechanical interlocks are to be of a substantial construction to be able to withstand the impact of repeated opening and closing cycles, and shall be adequately enclosed to prevent accidental contact with persons using the lifts.

A "door open" pushbutton must be provided in the car operating panel to enable the closing of doors to be stopped and reversed if required

13.3 Proximity Detectors

In the event of the door being obstructed during closing, re-opening will occur by way of a motor slip detection device.

The lift car shall be provided with a proximity detection system that shall control the opening and closing of the doors.

The system shall consist of an electric infra-red screen curtain or other approved detector that shall sense movement of a person, with or without a trolley. It shall provide protection across the full width and height of the entrance. The sensing distance in front of the doors shall be adjustable from 0,5m to 1,5m. A time delay shall be provided to keep the doors open for a period adjustable between 5s and 10s to allow passengers with trolleys to enter the lift. The time delay shall be overridden by the "Door Close" pushbutton in the car.

13.4 Automatic Levelling

The lifts shall be provided with a self-levelling feature, which will automatically bring the car to rest level with the floor landings, within a maximum tolerance of 3,0mm under all conditions of load.

The door operator of the automatic doors shall start functioning when the car reaches the levelling zone so that the doors are fully open when the car has been levelled with the landing.

14 LANDING EQUIPMENT

14.1 Landing Doors

The landing doors shall be of the automatic, power operated, horizontally sliding panel type and shall be constructed of not less than 1,6mm thick brushed satin finished, stainless steel sheet folded to form a rectangular shaped dished panel with double returns along each side to facilitate the attachment of locking devices and the fitting of fire-resistant material. All joints shall be welded and rendered flush and smooth. The panels shall be suitably reinforced to ensure rigidity and quiet operation.

All joints shall be welded and rendered flush and smooth. The exterior surfaces shall be provided with a dull satin brushed finish.

The door panels shall be hung on ball bearing tyre sheave hangers running in a smooth polished steel track and guided at the bottom by approved type non-metallic shoes sliding in smooth machined sill and threshold grooves.

14.2 Landing Sills and Frames

Solid extruded aluminium sills with anti-slip treads are to be provided at all landing entrances. The sills must be firmly fixed to the building structure and must line up with the final floor finish. No floor nibs are provided in the shafts and the Contractor shall provide angle iron sill supports where required.

Architraves, where required, shall be of simple and attractive design, and manufactured from 1,6mm thick brushed satin finished stainless steel sheet as specified for the landing doors, and shall consist of head and splayed jamb sections to suit the wall thickness and finishes. The shape of architraves and frames shall either be radiused or chamfered. Shop drawings of the architraves shall be provided for approval by the Architect prior to manufacture.

The basic tender price shall allow for brushed stainless steel architraves and frames finished as specified for landing doors.

Frames are to be securely fastened to sills and will be built in by the Principal Contractor after having been accurately located in position by the Contractor. The Contractor shall ensure that the doorframes are suitably braced vertically and horizontally by means of timber props to prevent moving of the sides and top of the frames whilst they are being built in. The concrete or mortar filling shall be done thoroughly so as to prevent the formation of voids.

Fascia plates of substantial construction shall be firmly secured to the sills and shaft walls, and shall be installed at all landing entrances, in accordance with the requirements of the Occupational Health and Safety Act, Act No. 85 of 1993, as amended to date.

14.3 Indicators

Digital (numeric) floor indicator panels shall be installed at each landing. These panels shall be located centrally above the landing doors and shall incorporate the up and down direction indicators in the left- and right-hand slides respectively and a floor number indicator in the central slide. Prior to stopping at a landing, the arrow indicating the direction of the travel of the car, shall become illuminated.

A single stroke pre arrival gong shall be installed flush in the head of the doorframe directly below the floor indicator panel. The gong shall sound when the lift is about to stop at a landing. The horizontal portion of the doorframe behind which the gong is mounted shall be die punched with a series of narrow slots to ensure that the sound from the gong penetrates clearly into the lift lobby.

14.4 Call-Buttons

Each terminal landing shall be provided with a single push button unit and each intermediate landing with a button unit comprising up and down push buttons. When pushed, the buttons shall illuminate and remain illuminated until the call is answered. Illumination shall be by means of LED's and shall be colour coded GREEN for UP and RED for DOWN.

"Up" call buttons: Use an arrow symbol in the "Up" direction

"Down" call buttons: Use an arrow symbol in the "Down" direction

Provision shall also be made at all landing panels for blind persons to independently recognise the landing floor and call the lift. All call buttons shall be provided with Braille letters/numbers.

14.5 Service Required Indicator

The direction of the travel indicator panel for each lift shall incorporate a service indicator which shall be activated from the motor room when the lift is being serviced. On activation, the wording "Lift being serviced/Hyser word gediens" shall be clearly illuminated.

14.6 Out of Order Indicator

The lift shall be provided with a "lift out of order" indicator lamp. The indicator lamp shall be mounted in a small surface or flush mounted panel that is to be installed in the central control room together with the intercom unit described. Wiring from the lift motor room to the indicator panel will be installed by others together with the intercom wiring.

14.7 Signage

"NO SMOKING" signs in accordance with SANS 1186 and of approved size shall be mounted above the call buttons on each floor.

15 DISABLED LIFT OPERATION

15.1 Normal Operation

The lift is designated to be operated by people of disability only and shall operate from ground floor to first floor and back.

All stops registered by the pressing of a car button shall be made in the order in which landings are reached after the buttons have been pressed and irrespective of the direction of travel. Calls registered by landing buttons shall be made in the order in which landings are reached in each direction of travel after the buttons have been pressed. "Up" landing calls shall be answered when the car is travelling in the up direction, and "down" landing calls when the car is travelling in the down direction, except in the case of the terminal landing calls, which shall be answered as soon as they are reached.

15.2 Power Failure

The disabled lift should come with its own back up power in the event of a power failure. It must also be compatible to receive power from a diesel generator that is existing on site.

16 SCHEDULE OF INFORMATION

The tenderer is required to complete the schedule of information that is tabulated below.

Item	Description	Details
1	Manufacturer's name	
2	Country of origin	
3	% South African manufacture	
4	Performance	
a)	Car speed in m/s	
b)	Average round trip time	
c)	Maximum carrying capacity of each lift car	
d)	Average waiting time after registration of a landing call	
5	Main Hoist Motor	
a)	Maker's name	
b)	Type	
c)	Rated output (kW)	
d)	Time rating (starts/hr)	
e)	Manufacturing standard and safety codes	
f)	Maximum speed (RPM)	
g)	Rated voltage (Volts)	
h)	Full load current (Amps)	
i)	Starting current (Amps)	
j)	Type of bearings	
k)	Maximum line current with lift starting with full contract load (Amps)	
6	Type of Brake	
7	Gearing	
a)	Material of worm	
b)	Material of wormwheel	
c)	Type of thrust bearings	
d)	Ratio of gearing	
e)	Type of wormshaft bearings	
f)	Worm above or below wheel	
8	Drive	
a)	Diameter of traction sheave (rope centres)	
b)	Type of grooving used on traction sheave	

c)	Type of bearing for sheave shaft	
d)	Diameter of smallest deflector pulley used	
e)	Type of grooves provided on deflector pulleys	
f)	Type of bearings for deflector pulleys	
g)	Means provided for absorption of vibration	
9	Switchgear and Control System	
a)	Make of main circuit breaker	
b)	Rupturing capacity of main circuit breaker (kA)	
c)	Type of control system	
d)	Control voltage	
e)	Make of contactors	
f)	Make of control relays	
g)	Contact materials used for auxiliary and main contacts of controller switchgear	
h)	Type of selector	
i)	Make of programmable controller	
10	Car and Doors	
a)	Mass of complete car with doors and operating gear (kg)	
b)	Nett inside dimensions(width x depth x height) in mm	
c)	Thickness of material of car and landing doors	
d)	Finish of car and landing doors	
e)	Clear width and height of car and landing entrances	
f)	Type of door drive mechanism offered	
g)	Type of suspension used for car and landing doors	
h)	Type of proximity detectors	
	1) For passengers approaching from landing	
	2) For passengers leaving lift car	
i)	Type of material used for inside finishes of car (i.e. panels, ceiling trim)	
j)	Thickness and type of floorboards and floor covering	
k)	How is car and platform isolated from supporting structure?	
l)	Are car panels treated externally for sound absorption?	
m)	Door speed:	
	1) Normal (m/min)	

	2) On force closing (m/min)	
11	Ropes	
a)	Maker's name	
b)	Diameter of ropes (mm)	
c)	Number of main ropes	
d)	Breaking load of each rope (kN)	
e)	Maximum working load of each rope	
f)	Factor of safety	
g)	Tensile strength of steel used (MPa)	
h)	Number of strands in rope	
i)	Number of wires per strand	
j)	Construction and lay of rope	
k)	Type of rope fastening used	
l)	System of roping (i.e. 2:1 or 1:1, single or double wrap)	
12	Counterweight	
a)	Total mass (kg)	
b)	Percentage of live load counter balanced (%)	
13	Guide Rails	
a)	Type and section	
b)	Mass per metre-length (kg) for:	
	1) Car	
	2) Counterweight	
14	Roller Shoes	
a)	Type	
b)	Material of tyres for roller type guides	

15	Buffers	
a)	Type	
b)	Length of stroke	
16	Deviations from Specification: Does the equipment offered comply strictly with the specification (Yes/No)	

If answer to 16 above is NO tenderers shall give full details of all deviations between the offered and specified equipment hereunder:

.....

TENDERER'S NAME :

TENDERER'S ADDRESS :

TENDERER'S SIGNATURE :
 (Authorised Signatory)

DATE :

Telephone Number :

Facsimile Number :

Cell Number :

17 PRICING

17.1 General Requirements

Tenderers are required to submit separate prices for each item of equipment broken-down as called for in the table below. The tender prices shall include the cost of 12 month's free maintenance and shall also allow for the payment of all import duties on all imported items.

17.2 Deliveries

Tenderers shall quote their earliest delivery periods in the Price Schedules to facilitate adjustment of the building program, if so required.

17.3 Maintenance Contract

Please note that the Comprehensive Maintenance Contract must be signed before the final delivery can take place. It is recommended that if the building owner accepts a maintenance contract it should be signed one month prior the final delivery date is scheduled.

17.4 Materials offered ex import

Tenderers shall submit the information called for in Annexure A, "Materials Offered Ex-Import" included after the Price Schedule, in connection with all material to be imported for the execution of the contract. The tender must be based on current prices confirmed by the tenderer's overseas supplier.

Payment will be made in South African currency to the successful tenderer in South Africa only.

17.5 Detailed Breakdown

Furnish the following details for each lift.

DISABLED LIFT	LOCAL CONTENT (EXCLUDING VAT)	IMPORTED CONTENT (EXCLUDING VAT)	DELIVERY (WEEKS)	INSTALLATION DURATION
Lift 1				
TOTAL				

Tenderer to indicate ceiling price for the Lift 1, _____

NAME OF TENDERER

.....

ADDRESS

.....

DATE

Signature of Tenderer

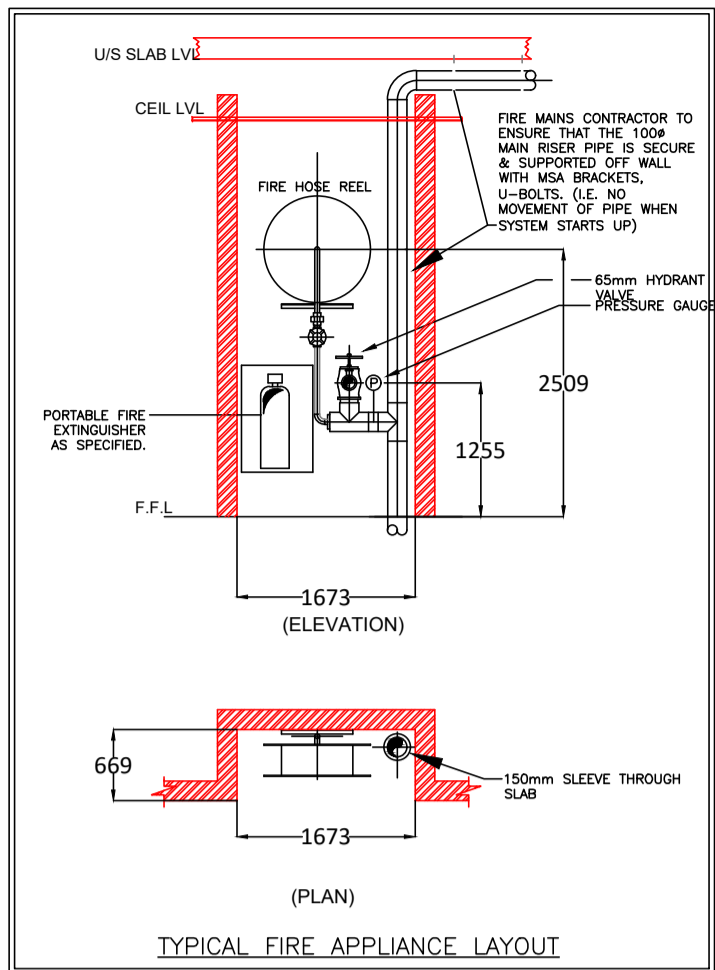
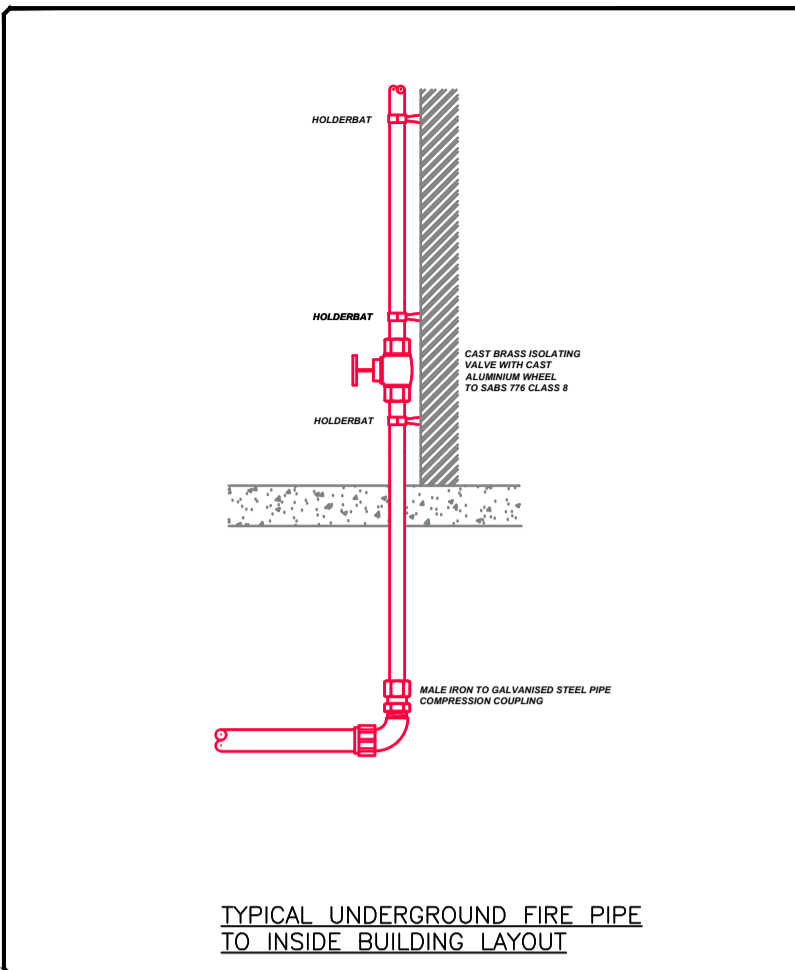
.....

Installation Notes	
1. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT ON SITE.	
2. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL AND OTHER DRAWINGS.	
3. ALL PIPEWORK TO BE MILDSTEEL GALVANISED.	
4. REGULATION SIGNAGE WILL BE ACCOMPANIED WITH ALL FIRE EXTINGUISHERS & HOSE REELS.	
5. ALL SERVICES TO HANG FROM TRUSSES AND PERLINS ONLY. NO	

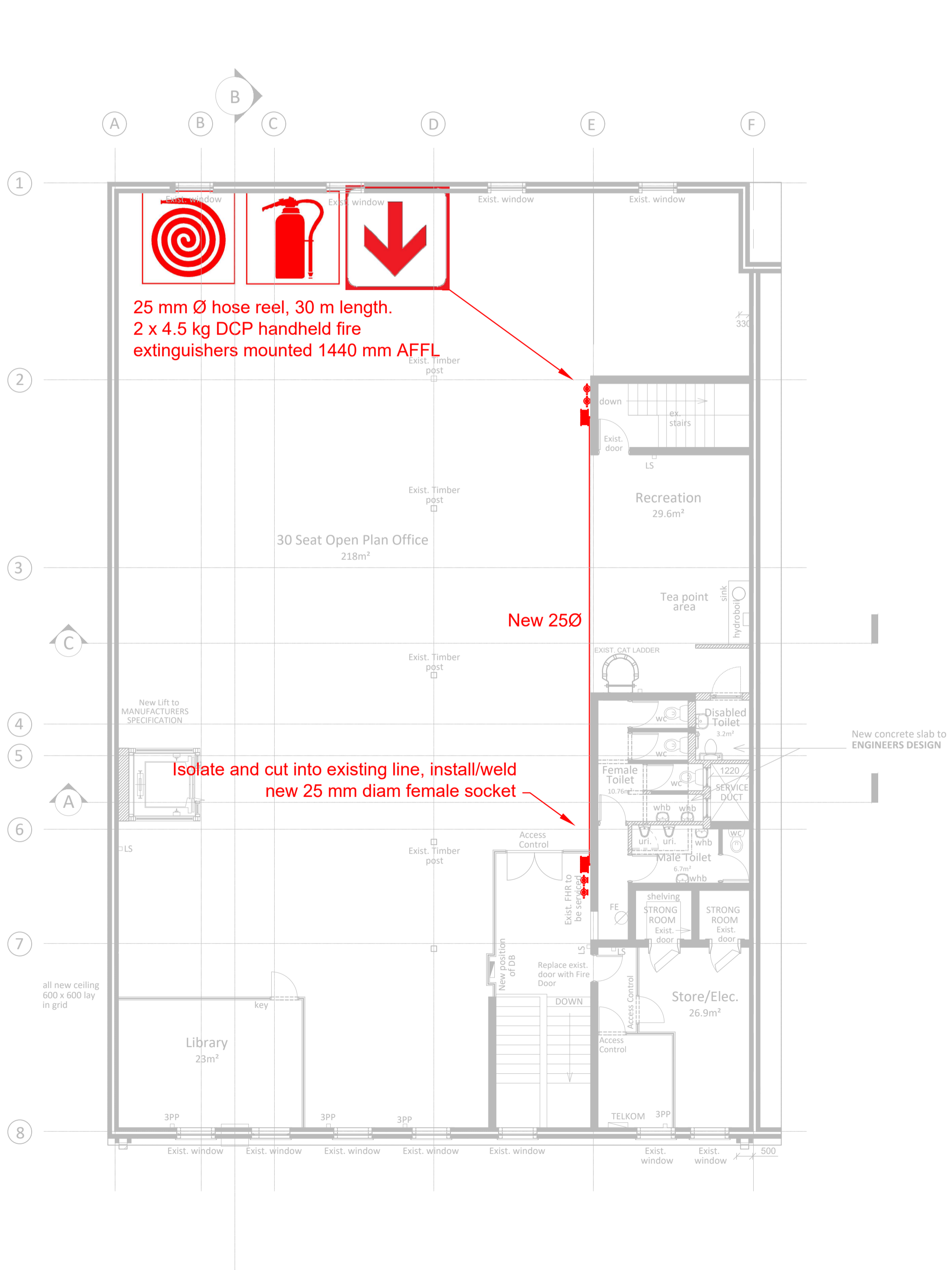
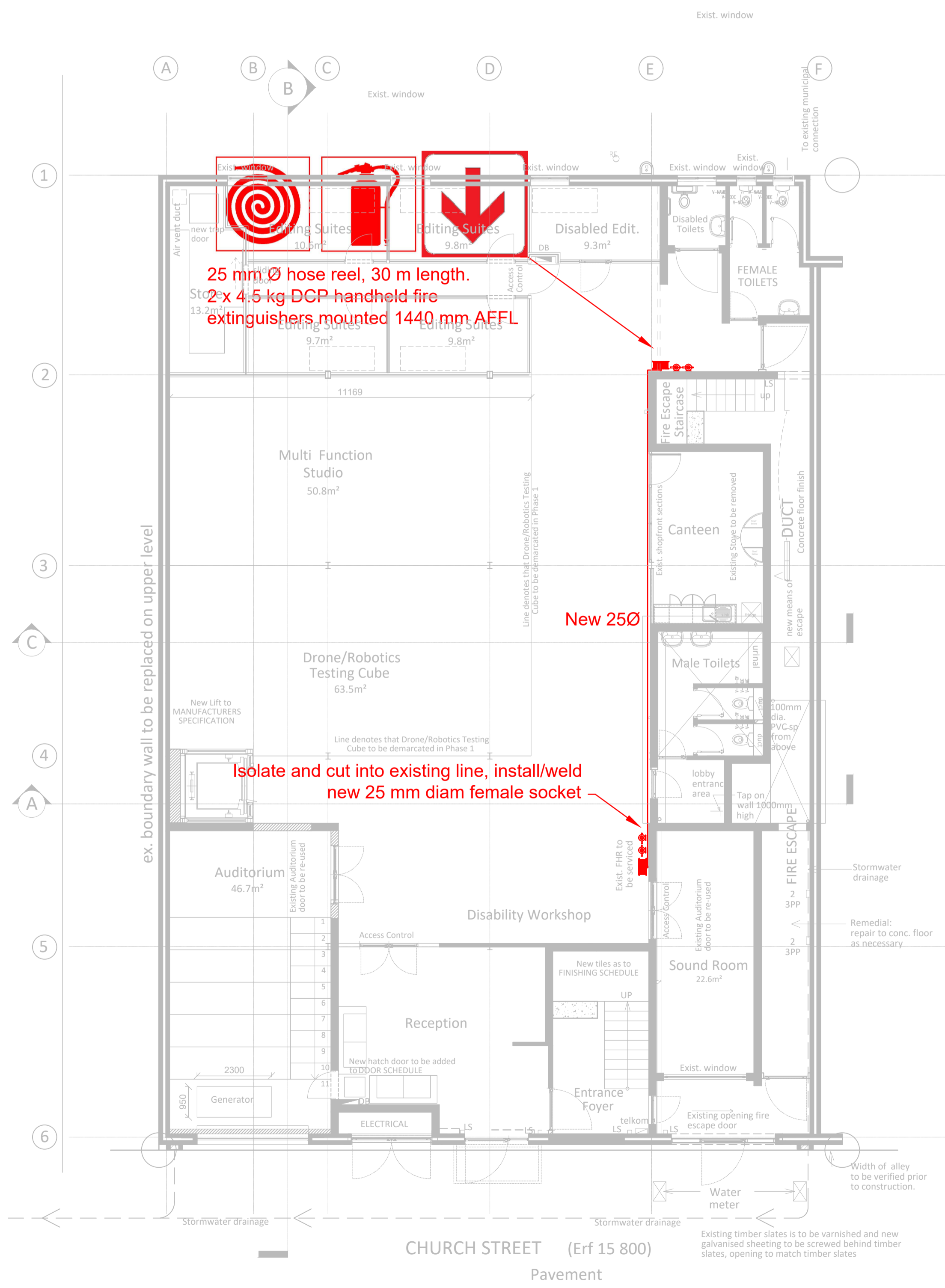
FIRE PROTECTION EQUIPMENT	Qty
65 mm Ø HYDRANT CONNECTION (See Civil)	0
30 m HOSE REEL	4
4.5 kg DCP HANDHELD EXTINGUISHER	8

FIRE ESCAPE SIGNAGE INSTALLATION NOTE:	
FIRE EXTINGUISHER/HOSE REEL SIGNAGE TO BE PLACED AT FIRE EXTINGUISHER/HOSE REEL EQUIPMENT AS INDICATED ON THE DRAWING PLAN, BY THE SYMBOLS SHOWN BELOW.	

(NOTE: SYMBOLS USED ABOVE FOR REFERENCE PURPOSES ONLY. THIS DRAWING IS TO BE UPDATED IN THIS REGARD.)



Legend	
SYMBOL	DESCRIPTION
	9.0 kg DCP FIRE EXTINGUISHER
	FIRE MAINS PIPING
	NON RETURN VALVE
	ISOLATING VALVE
	30m FIRE HOSE REEL (25# CONN.)
	45m FIRE HYDRANT (100# CONN.) COMPLETE WITH 45 m FIRE HOSE, COUPLINGS AND CUPBOARD
	FIRE PUMP CONTROL PANEL
	PRESSURE VESSEL
	PRESSURE SWITCH
	PRESSURE GAUGE - 2500 KPA
	PRESSURE REDUCING VALVE



CLIENT

TITLE
FIRE PROTECTION EQUIPMENT LAYOUT



COPYRIGHT
RNA CONSULTING ENGINEERS
Consulting Electrical & Mechanical Engineers
7 King Street, Southernwood, East London, 5201
E-Mail: office@rnaconsulteng.co.za
P.O. Box 12359, Amalinda, 5252
Tel: 043 742 0041
Fax: 043 742 3883

RECORD	<input checked="" type="checkbox"/>
--------	-------------------------------------

DESIGNED BY: T. WARNE
SCALE: 1:100

DRAWN: T. WARNE
DATE: 23/10/2019
PRINT DATE: 23/10/2019

CHECKED BY: Travis Warne
REGISTRATION No. 201770017

SIGNED:

DRAWING NO. 1914-M-C-101 FP
REV No. RECORD



national film and video foundation
SOUTH AFRICA

an agency of the Department of Sport, Arts and Culture

TECHNICAL SPECIFICATIONS
FOR
FIRE INSTALLATION
(INSTALL, REPAIR, MAINTENANCE AND RE-
COMMISSIONING)

ISSUED BY:

NATIONAL FILM AND VIDEO FOUNDATION (NFVF)

MAIN TENDER REFERENCE NUMBER: RFT 05 2021-2022

TENDER CLOSING DATE: 10 JANUARY 2022 at 11H00

NAME OF THE TENDERER: :

.....

TEL NUMBER :

.....

FAX NUMBER :

.....

FIRE PROTECTION TECHNICAL SPECIFICATION

1.0 Introduction and General

This detail specification complements and qualifies the foregoing standard specifications of material & workmanship. The standard specification should be regarded as a basis and guideline, with this detailed specification taking preference where any ambiguity is concerned.

In the event of any further technical ambiguity between sections of this enquiry, then the sections will be considered in the following order of priority (unless stated elsewhere in Conditions of Contract).

- • Schedule of quantities
- • Detailed specification
- • Drawings
- • Standard specification

2.0 Scope of Work

This subcontract calls for the replace and maintenance, which include testing and re-commissioning of the specified Fire Protection Installation at the Film Hub Building.

2.1 The following sections of work are included:

a. Maintenance and Repair:

- Drain existing system and inspect fire supply pipes for corrosion and identify pipes and sections to be replaced based on severity of corrosion.
- Obtain approval from Engineer and Principal Agent on the extend of the scope of work and related costing based on Tender Rates provided.
- Service existing Fire extinguishers, subject to cost been approved by Principal Agent.

b. Installations:

Installation of Handheld fire extinguishers as specified in Main Bill of Quantities.

Installation of required signage

c. Testing and certification:

- Performing and submission of test records (as per SANS requirement) and certificates.
- Issuing of SAQCC Fire Certificate of Compliance
- Supply of Operators and Maintenance Manuals

- Basic maintenance training for building maintenance staff
- Provision of a twelve-month guarantee for the installation including a full service prior to expiry.
- All other materials and labour necessary to complete the Works in full accordance with the specification and design contained or referred to in this document.

2.2 The following sections of work are excluded:

- Builder's work e.g. cut-outs in walls to Tenderer's specifications, including chasing and making good of walls.
- Provision of suitable 220 V / 1 phase power supply for Control Panel.
- Provision of all conduit, trunking, draw trays, draw / outlet boxes and wireways as required by the installation.
- The cutting of holes in suspended ceilings and ceiling tiles for the fixing of detector heads, sirens and other devices.

3.0 Site Conditions

3.1 General

The equipment specified herein shall be designed to operate at the environmental parameters particular to East London and surrounds.

4.0 Fire Mains Service Connection

4.1 The fire hydrant and hose reel installation is existing on site, operational and in good condition.

5.0 Pipe Locations, Materials and Specifications

For steel piping of 75 mm diameter and larger (i.e. flanged) the hot dip galvanising to SANS 763, 1977 (when required) shall be after fabrication.

6.0 Pipe Jointing and Fittings

Mild Steel Piping and/or Galvanised:

6.1 Mild steel piping shall be joined by means of screwed sockets, navy unions or flanges. Red lead jointing or other approved jointing compounds may be used sparingly and exposed threads shall be painted with zinc chromate primer or equivalent paint to prevent rusting.

6.2 Where it is required to remove sections of pipe or where pipe joints will need to be tightened after installation and testing, unions or flanges must be provided to facilitate the work,

6.3 Welding construction is only permitted for pipes of 50 mm diameter or larger and then only when prefabricated and welded in the workshop of the installing engineers whose welding procedures, pre-approved by the Insurance Council of South Africa.

NO WELDING OR HEAT CUTTING IS PERMITTED ON ANY SITE OF ERECTION

The edges of pipe to be welded shall be machine bevelled wherever possible. Gas cuts shall be true and free of all burned material. Before welding the surfaces shall be thoroughly cleaned and degreased. Piping shall be carefully aligned. No metal shall project within the pipe. Mitred joints will not be allowed.

Only welded fittings prefabricated by recognised manufacturers will be permitted. No other prefabricated welding fittings will be permitted without the express approval of the Engineer.

For branch piping sixty five millimetres (65 minimum) in size or larger, use welding tees, with flanged outlet. For piping 200 mm and larger use shaped spigots and welding neck flanges. Cracks, pinholes, excessive undercutting etc. shall be removed and the joints rewelded. Welders and welding processes shall meet the requirements of the SANS Code for welders.

6.4 Jointing of mild steel and galvanised piping using grooved pipe fittings and couplings may be used provided they have been approved by SANS. Proper gaskets, designed for the applications shall always be used. Approval by the consulting Engineers must in all cases be obtained prior to the utilisation of such fittings.

7.0 INSTALLATION OF PIPING

All piping shall be installed in an approved manner to meet structural and architectural requirements, to avoid interference with the work of other trades and be finished in a neat and workmanlike manner with true alignments and grades. Piping shall be run to ensure sufficient access for inspection, testing, servicing, etc.

7.1 Storage

Deliver and store to Suppliers recommendations with plugged ends. Clean pipes thoroughly. In addition it is required that pipes are stored off the ground and under cover.

Keep the ends closed during erection with temporary caps. Before any pipe is installed it shall be upended and pounded to remove any foreign matters present.

7.2 Installation

Slope of Pipes

In order to prevent air being lodged, the pipe lines shall have a proper inclination throughout the work.

Also the sloping shall be such that the system can be thoroughly drained.

7.3 Underground Piping

a) Unless otherwise specified, the Contractor shall not be responsible for the digging and backfilling of pipe trenches for underground piping in his contract. He is however to ensure that the excavations and laying of piping is in accordance with SANS 1 200 06, LD and LD, and that this specification is adhered to so that his installation can be correctly installed.

b) The trenches shall be of such depth that when properly laid at least 750 mm of soil shall cover the top of the pipe.

c) The pipes shall be laid on a clean, soft soil bed not less than 750 mm deep. When backfilling the trench, it shall firstly be filled to approximately 150 mm above the pipe again with clean soft soil and then compacted after which the final filling is to be made and again compacted (care shall be taken to ensure that no large stones or debris occur in the filling material).

d) In the case of cement and uPVC piping the Contractor must ensure that the trenches are recessed where couplings or fittings are positioned such that the pipe lies flat on the bed. This is to prevent the fittings supporting the length of pipe. The Contractor is also to allow for any pipe movements, such as thrust at bends etc. Concrete blocks in accordance with manufacturer's specifications shall be provided at these points. Where asbestos cement piping cross roads etc., the pipe shall be protected by casting into concrete not less than 100 mm over the top of the pipe.

e) Where steel or uPVC pipes are to cross roadways, under connecting corridors, etc., the Contractor shall provide PVC sleeves through which the pipes will pass. It shall be at a depth of not less than 750 mm below the surface and shall be encased in concrete not less than 150 mm all round. These sleeves are to be two pipe sizes above the size of the water pipe to permit the removal and the replacement of the pipe should the need arise.

7.4 Internal Pipe Runs

All piping shall be installed parallel to, or at right angles with building walls and partitions.

In general, all pipes shall be supported from the building structure in a neat and workmanlike manner, and whenever possible, parallel runs of piping shall be grouped together.

a) Where pipes pass through walls, floors, ceilings, etc., they shall be sleeved. The sleeves shall be of PVC material and allow for pipe thermal reactions.

- c) Where pipe sizes are reduced, proper reducing fittings shall be used. On no account will bushes be accepted.
- d) Horizontal take-offs from vertical pipes shall be long enough before the next fixing to take up any movements or shall have an expansion loop to provide this facility.
- e) Every tube section shall be installed to have the possibility of expansion and contraction without restriction. It shall be anticipated that no deflection acts on very short tube section. Expansion loops or expansion joints and anchors shall be fitted in order to reduce the displacement of individual line elements and to deflect them to the points where they can act without damage.

7.5 Concealment of Pipework

Pipework must not be embedded in the concrete floors of a building, nor should it be concealed in any other situation where difficulty or undue expense would be involved in making alterations or additions which may subsequently be necessary. Concealment of pipework is particularly to be deprecated in the case of buildings in multiple tenure where erection of partitions to suit tenants may impair the effective distribution of water from the sprinklers and necessitate alterations in the positioning of sprinklers.

7.6 Pipe Hangers and Supports

- a) All pipes shall be supported from the building structure in a neat and workmanlike manner and, wherever possible, parallel runs of horizontal piping shall be grouped together on trapeze hangars.
- b) Vertical risers shall be supported at each floor line with pipe clamps. The use of wire, perforated metal straps, nails and so forth, to support pipes will not be permitted. Hanging of pipes from other pipes will also not be permitted.

7.8 Threaded Pipe

- c) Vertical runs shall be secured by means of rustless holderbats or other clamps. Duckfoot supports shall be provided at the bottom of a vertical section of large piping (100 mm and above) to support the weight of the pipe and the water.

Under no circumstances shall a vertical pipe be supported from its highest point. Should any fittings be installed in the vertical sections, care shall be taken to ensure that these fittings are not in a state of tension through the combined weight of the pipe and the water.

- d) Horizontal pipes shall be supported by means of galvanised hangers at close enough centres to prevent sagging. The minimum recommended spacings for supports and hanger rod size shall be set out below:
- e) The hangers shall be protected against rust and adjustable in height. They shall be manufactured from rods of the diameter as specified above, one end threaded and bolted to an angle iron cleat or Unistrut section suitably secured to the structure. The other end shall be formed into an eye and bolted to the pipe clamp.

7.7 Changes in Material

Where piping material changes occur (i.e. copper to steel etc.) dielectric unions must be furnished and installed.

The pipe connection shall be cut square and full threaded with clean cut tapering threads and shall be

reamed after threading. All threaded connections shall be made with approved thread compound applied

to male threads only, and shall be so made up that not more than two (2) threads will be exposed.

7.9 Testing of Water Piping

All piping installed on the project shall be hydraulically tested as specified herein. The Contractor shall

provide all equipment required to make these tests.

Piping may be tested a section at a time in order to facilitate the construction programme.

The Contractor shall fill the section of the pipe to be tested with water and bring the section up to test pressure with a positive displacement type test pump. The tests shall be conducted by the Contractor in the presence of the Engineer or his representative. Gauges used in the tests shall have been recently calibrated with a dead weight tester.

All tests shall have full test pressure applied to the piping for a minimum of twenty-four (24) hours

The test pressure at any section of the system shall not be less than one and a half times the system working pressure or 1 500 kPa (Maximum) unless otherwise stated under Part Four of the specification.

When the test pressure has fallen over 6 percent (%) during the twenty-four (24) hour test period, the point of leakage shall be found, repaired and the test repeated. This procedure shall be followed until the piping system has been proven absolutely tight.

The use of chemicals or so-called "stop-leak" compounds will not be permitted at any time.

When instruments or gauges are installed in the piping system, they shall be removed during the tests if subject to damage from shock or excessive pressure. This does not apply to control valves.

Leaks shall not be repaired by mastic or other temporary means. All leaks shall be repaired by removal of the section that is leaking and reinstalling new material with joints as specified herein before.

7.10 Flushing of System Pipework

There must be a 50 mm diam. flushing connection fitted on the incoming main below each installation

control valve. These flushing points must be plugged to prevent misuse.

7.11 Terminal Drain Valve

25 mm drain valves must be fitted at the extremity of the distribution pipe at each level of protection. This is to indicate that there is water at this point and that no blank flanges are left in the installation. The valve should be positioned at hand level and must be normally strapped closed.

8.0 Fittings

8.1 All fittings, including safety devices are to be placed and sized.

9.0 Safety Devices

9.1 Where applicable.

10.0 Handling And Storage Of Materials, Fittings And Components

10.1 Pipes, fittings and components shall be handled carefully to obviate damage

10.2 Manufactures' advice shall be followed as to how their products should be loaded, transported, unloaded and sorted

11.0 Identification

11.1 Colour Coding

11.1.1 General

All equipment shall be colour-coded in accordance with standards recognised, and where possible to comply with relevant SANS colour codes unless specified otherwise.

11.1.2 Colour Coding of Pipes

Identification of the contents of pipes shall either be by painting a 100 mm wide primary colour band or by using self-adhesive PVC coloured tape. The colour of the paint or tape shall comply with SANS 0140 Identification Colour Marking, Part III, Contents of Pipelines, as detailed below.

The colour names referred to in the tables are specified in SANS 1091.

TABLE OF COLOUR CODING FOR PIPELINES AS PER SANS 0140 PART III - 1978

CONTENTS OF PIPE PRIMARY COLOUR BANDS

FIRE FIGHTING

- All Pipes Signal Red

12.0 **Sterilization**

12.1 N/A

13.0 **Builders Work**

13.1 The Engineer will prepare details showing where all sleeves are to be positioned before any structural concrete is cast.

13.2 The Engineer's approval, in writing, must be obtained before any holes or chases are cut in any structural component i.e. brickwork, concrete, steel or timber.

13.3 The Contractor shall be responsible for cutting chases and holes in walls and slabs to accommodate his services which must be coordinated in liaison with the Main Contractor who will be responsible for making good.

14.0 **Excavation**

14.1 General:

Tenderers are to note that excavation shall be carried out by the main contractor.

15.0 **Operating And Maintenance Details**

15.1 Two complete sets of operating manuals complete with spares schedules, as-fitted layout drawings, schematic diagrams and operating and general maintenance information, bound in hardcover ring binders shall be prepared by the Contractor and delivered to the Engineer 14 days prior to practical completion for approval, at or before final handover.

15.2 A full "RECORD" set of drawings shall also be submitted to the engineer for record purposes.

16.0 **Schedules Of Information**

16.1 The schedules of information contained in this document consists of 2 sections :

- a. Information supplied by the Engineer (schedules of drawings, sleeves etc. as applicable.)
- b. Information to be supplied by the Contractor at tender stage

(tender form, information on the makes, types and ratings of equipment and materials offered, schedules of prices and rates for variations, schedules of quantities, etc. as applicable.)

16.2 Tenderers are required to enter, at the time of tendering, in the "Schedule of Equipment and Material Offered", sufficient details to enable the equipment concerned to be identified without ambiguity.

16.3 It is not sufficient for a tender to state "as specified" in the schedules.

16.4 Failure to complete these schedules (if applicable) may render a tender invalid.

17.0 Samples And Alternatives

17.1 Tenderers may be required to submit for approval, comment or records samples of materials, apparatus or components, and also drawings, schematic diagrams or technical details, including calculations, upon which their design and/or offer is based before any contract is awarded. Such details may also be called for during the course of the Contract prior to installation. Any approvals given or comments made shall be on the generality of the scheme and shall not relieve the Contractor of his responsibility to ensure the full compliance with all performance and regulatory criteria.

NOTE : A request for submission of samples or drawings does not imply that the Tenderer's quotation will necessarily be accepted.

17.2 Any particular make or model of equipment referred to in the Documentation is for guidance purposes only in setting standards / types / performances required; equipment that is equal or superior in all respects, and to the approval of the Engineer, may be offered by Tenderers. No reference to any particular make of any equipment shall be construed as that equipment having been selected by the Engineer or Client and the Contractor shall be fully responsible for the guarantee and performance of such equipment.

18.0 Certification On Completion Of Guarantee And Maintenance Period

18.1 In the month prior to the expiry of the guarantee and first twelve months maintenance period the Engineer shall inspect and, if necessary, retest the installation so as to be able to provide the Tenant with a certificate, within fourteen days of the guarantee expiry date, to confirm that the guarantee has been honoured and that the installation has been properly serviced at required regular intervals by the sub-contractor.

18.2 The cylinders shall be guaranteed from date of take over for a period of three years on the tank, insulation and outer casing and for one year on the electrical components

19.0 Supervision Of Workmanship And Details

19.1 The work shall at all times, for the entire duration of the contract, be executed under the supervision of a skilled and competent representative of the subcontractor, who must be

able and authorized to receive and execute instructions on behalf of the Mechanical Subcontractor.

19.2 In the event that inferior materials or bad workmanship, on the part of the subcontractor, leads to remedial work requiring redesign by the Engineer, the cost of this work, including related professional fees, shall be borne by the Subcontractor.

19.3 Similarly, should delays in the contract be caused by poor performance on the part of the Contractor causing the Engineer to spend extraordinary time on the project, the extra costs incurred shall be borne by the Contractor.

These costs will be based on the SAACE hourly rates and will be deducted from claims due or claims which will become due to the Contractor.

20.0 Making Good

20.1 The subcontractor will carry out in all instances any work to be made good such as damage to, or disturbances of the building installations caused by himself or his employees during the execution of the contract, at his own cost.

21.0 Test and Inspections - Pressure Testing And Quality Control

21.1 The Contractor shall, at no extra cost to the contract, provide all the necessary equipment and facilities to conduct all tests as directed by the Engineer and or Supply Authorities.

22.0 Commissioning And Testing

22.1 Commissioning:

A documented method shall be followed whereby the mechanical subcontractor shall ensure that his installation is correctly constructed in accordance with the manufacturers' specifications, consultant's specification, consultant's design and all codes of practice and international design codes.

The commissioning procedure must allow for signing off of the major items of equipment by a qualified person in terms of the codes. These signed off documents will form part of the record drawings.

22.2 Performance Tests:

The mechanical subcontractor shall be responsible for the physical testing, in the manufacturing works, or on site, of the items of plant or systems as required by the Engineer. These tests shall be performed by the mechanical subcontractor or supplier of the equipment, and where called for, the Engineer shall witness such tests. The Engineer may also only witness a representative sample of the equipment tests. In any event, the mechanical subcontractor will supply documentary proof of full performance tests of all relevant equipment.

22.3 Acceptance Tests:

All brass fittings and valves shall be certified by the manufacturers to be free

From de-zincification and will be subjected to check tests as set out in the Detailed Specification

Acceptance tests will be performed on site of the working system or sub system, to show that the works, as installed, is functioning according to the specifications and design. The onus for the correct functioning of the systems is still on the mechanical subcontractor irrespective of whether the Engineer has witnessed the acceptance tests or not. Prior to the system being connected, a test certificate must be issued by / given to the local electricity supply authorities.

23.0 Compliance With Regulations, Standards And Codes

23.1 The subcontractor will arrange for all inspections and testing of the installation after completion, including the issuing of the Certificate of Compliance. All notices, fees, including inspection and re-inspection are the responsibility of the subcontractor and all the relevant costs shall be borne by him.

23.2 The workmanship throughout the Works will be to the satisfaction of the Employer. Any materials or workmanship considered as faulty or incorrectly or inadequately erected or repaired, will be substituted, altered or rectified to the satisfaction of the Employer, without additional cost to the Employer.

23.3 The Works will be executed in strict accordance with the following:-

- a. All relevant by-laws and regulations of local authorities.
- b. All relevant SANS, BS and other international standards of the latest revision, where applicable.
- c. The Occupational Health and Safety Act of 1993 as amended.

24.0 Monthly Certificates

24.1 Pro forma claim forms are available from the Engineer. These are available in a blank copied format or as a computer file in Excel. This is the preferred method of submitting payment claims. Should the subcontractor have developed his own method of claiming, this may be submitted to the Engineer for consideration.

25.0 Programme

25.1 The subcontractor must conform to the programme as submitted by the principal Contractor. The estimated period for completion, as tendered, is as per the builders programme. The cost of overtime,

additional labour and plant for the completion of the works, in accordance with the programme, must be included in the Tenderer's price for the project. The cost of any work outside the requirements of the programme or necessary under exceptional circumstances will be for the Employers' account only if covered under a variation order.

26.0 Drawings

26.1 Tender Drawings

All drawings, those supplied loose, as well as those bound in, form part of this enquiry and are listed in Part 8. It is the Tenderer's responsibility to inform the Engineer as to the absence of any of these drawings.



national film and video foundation
SOUTH AFRICA

an agency of the Department of Sport, Arts and Culture

SCHEDULE OF INFORMATION
FOR
FIRE INSTALLATION
(INSTALL, REPAIR, MAINTENANCE AND RE-
COMMISSIONING)

ISSUED BY:

NATIONAL FILM AND VIDEO FOUNDATION (NFVF)

MAIN TENDER REFERENCE NUMBER: RFT 05 2021-2022

TENDER CLOSING DATE: 10 JANUARY 2022 at 11H00

NAME OF THE TENDERER: :

.....

TEL NUMBER :

.....

FAX NUMBER :

.....

SCOPE OF WORKS

1 GENERAL

The Contractor shall comply with the Code of Practice for the Construction of Buildings in force at the time of the Contract and the Building Regulations 2000 and the Building Regulations 2000 as amended and the Code of Practice for the Construction of Buildings in force at the time of the Contract and the Building Regulations 2000 and the Building Regulations 2000 as amended and the Code of Practice for the Construction of Buildings in force at the time of the Contract and the Building Regulations 2000 and the Building Regulations 2000 as amended.

1.1 COMPLIANCE WITH REGULATIONS, STANDARDS AND CODES

The Contractor shall comply with the Building Regulations 2000 and the Building Regulations 2000 as amended and the Code of Practice for the Construction of Buildings in force at the time of the Contract and the Building Regulations 2000 and the Building Regulations 2000 as amended and the Code of Practice for the Construction of Buildings in force at the time of the Contract and the Building Regulations 2000 and the Building Regulations 2000 as amended.

The Contractor shall comply with the Building Regulations 2000 and the Building Regulations 2000 as amended and the Code of Practice for the Construction of Buildings in force at the time of the Contract and the Building Regulations 2000 and the Building Regulations 2000 as amended and the Code of Practice for the Construction of Buildings in force at the time of the Contract and the Building Regulations 2000 and the Building Regulations 2000 as amended.

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1.2 SUPERVISION

The Contractor shall comply with the Building Regulations 2000 and the Building Regulations 2000 as amended and the Code of Practice for the Construction of Buildings in force at the time of the Contract and the Building Regulations 2000 and the Building Regulations 2000 as amended and the Code of Practice for the Construction of Buildings in force at the time of the Contract and the Building Regulations 2000 and the Building Regulations 2000 as amended.

1.3 VARIATION ORDERS

Contractor shall submit to the Client any variation orders for approval and execution. The Client shall have the right to reject any variation order that is not in accordance with the Contract Documents. The Client's approval of a variation order shall not constitute an approval of the Contractor's estimate of the cost of such variation.

2 THE CONTRACT

2.1 FIRST AID FIRE FIGHTING WATER INSTALLATIONS

The Contractor shall be responsible for providing and maintaining first aid fire fighting water installations in accordance with the applicable codes and standards. The Contractor shall provide a detailed schedule of work for these installations and shall coordinate with the building contractors' program of works. The Contractor shall be responsible for the design, procurement, and installation of all materials and labor required for these installations. The Contractor shall provide a detailed schedule of work for these installations and shall coordinate with the building contractors' program of works. The Contractor shall be responsible for the design, procurement, and installation of all materials and labor required for these installations.

2.2 Existing

The Contractor shall be responsible for identifying and protecting all existing conditions and utilities in the project area. The Contractor shall provide a detailed schedule of work for these activities and shall coordinate with the building contractors' program of works.

2.3 Order of The Works

The Contractor shall follow the building contractors' program of works.

3. GENERAL NOTES/PREAMBLES

3.1 Conditions of Contract

The Contractor shall be bound by the conditions of contract set forth in the Contract Documents. The Contractor shall be responsible for the design, procurement, and installation of all materials and labor required for these installations. The Contractor shall provide a detailed schedule of work for these installations and shall coordinate with the building contractors' program of works.

SCHEDULE OF INFORMATION REQUIRED

1. COMPANY INFORMATION

1.1 Registered as Fire Installation Contractor

_____ must also be registered with the Workmen's Compensation Commissioner and the _____

_____ CC _____ / ____

Registration no.:

Date of issue:

i) The Workmen's Compensation Commissioner _____ / ____

Registration no.:

Date of issue:

_____ / ____

Registration no.:

Date of issue:

D _____

NOTE _____

SIGNATURE OF TENDERER

DATE

3. FORM OF RESOLUTION

RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF

_____(Company's _____

 _____d _____20____

RESOLVED

 _____ C_____ _____
 _____d _____d _____d _____d/r C_____D_____r _____
_____2 _____R_____M_____R_____M_____
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SIGNATURE OF TENDERER

DATE

4. REGISTRATION DOCUMENTS

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SCHEDULE OF MATERIALS OFFERED

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NB : Only one manufacturer's name to be inserted for each item.

Item	Material	Make or Trade Name	Country of Origin
Gavanised steel pipe			
Isolating valves			
Strainers			
Angle valves			
Heavy duty angle stop valves			
Holder bats			
Braided hoses			
Under counter water heating unit			
Manholes			
30m Hose Reels			
Handheld Fire Extinguishers			

NOTE: Tenderers are to submit their proposals in a sealed envelope to the address specified in the tender documents. The envelope should be clearly marked with the name of the tenderer and the name of the tender. The envelope should be addressed to the name and address of the tendering authority. The envelope should be sealed and the name of the tenderer should be written on the outside of the envelope. The envelope should be sealed and the name of the tenderer should be written on the outside of the envelope.

The tenderer should also submit a copy of the tender documents to the tendering authority. The tenderer should also submit a copy of the tender documents to the tendering authority. The tenderer should also submit a copy of the tender documents to the tendering authority.

I certify that I have read and understood the conditions and requirements stated above and that information provided is correct.

NAME OF TENDERER

SIGNATURE OF TENDERER

DATE



national film and video foundation
SOUTH AFRICA

an agency of the Department of Sport, Arts and Culture

BILL OF QUANTITIES
FOR
FIRE INSTALLATION
(INSTALL, REPAIR, MAINTENANCE AND RE-
COMMISSIONING)

ISSUED BY:

NATIONAL FILM AND VIDEO FOUNDATION (NFVF)

MAIN TENDER REFERENCE NUMBER: RFT 05 2021-2022

TENDER CLOSING DATE: 10 JANUARY 2022 at 11H00

NAME OF THE TENDERER: :

TEL NUMBER :

FAX NUMBER :

**THE APPOINTMENT OF A CONTRACTOR TO CARRY OUT THE PHASE 2 REFURBISHMENT OF
THE EASTERN CAPE FILM**

**NFVF FILM HUB - PHASE 2
FIRE INSTALLATION**

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY RATE	INSTALL RATE	AMOUNT
	<u>BILL NO. 1 : PRELIMINARY AND GENERAL</u>					
1.1	Compliance with General Conditions of Contract : Insurances, Sureties, etc as outlined in the Principal Contractor's Preliminaries. Fixed	No.	1			
1.2	Establish on Site and provision of buildings and storage facilities including de-establishment of site, cleaning and tidying up after completion of contract Fixed	No.	1			Nil
1.3	Tools and equipment, Communication, transport. Fixed	No.	1			
1.4	Contract Management, Company overheads and supervision of the Works including attendance of site meetings when required Fixed	No.	1			
1.5	Provision of all drawings and manuals as specified including As-Installed drawings	No.	1			
1.6	Liaison with Local Supply Authority, compliance with OSH Act, Local By-laws and any other statutory regulations	No.	1			
1.7	Any additional item not specifically mentioned or included in the Bills of Quantities which the Tenderer may wish to detail. (Specify)	No.	1			
Total Carried forward to Summary Page						R0,00

THE APPOINTMENT OF A CONTRACTOR TO CARRY OUT THE PHASE 2 REFURBISHMENT OF THE EASTERN CAPE FILM

**NFVF FILM HUB - PHASE 2
FIRE INSTALLATION**

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY RATE	INSTALL RATE	AMOUNT
2.0	<u>BILL NO. 2 : FIRE FIGHTING EQUIPMENT</u>					
	<u>Fire Hose Reels</u> Fire hose reels to comply with requirements contained in SANS 543 and maintained in accordance with the requirements as given in SANS 1475-2. Supply, install, test and commission:		1			Nill
2.1	30m length of fibre braid reinforced neoprene hose of 20 mm internal diameter	Item	1			Nill
	<u>Galvanised piping</u> Galvanised piping above ground to SABS 763/1977 installed in accordance with the specification, drawings and manufacturer's recommendations. Pipe hanger & support bracket spacing to be as per the table on the drawings.					
2.2	25 mm diam	m	1			Nill
2.3	32 mm diam	m	1			Nill
2.4	40 mm diam	m	1			Nill
2.5	50 mm diam	m	1			Nill
2.6	100 mm diam	m	1			Nill
	<u>Bends</u>					
2.7	25 mm dia	No.	1			Nill
2.8	32 mm diam	No.	1			Nill
2.9	40 mm diam	No.	1			Nill
2,10	50 mm diam	No.	1			Nill
2,11	100 mm diam	No.	1			Nill
Total Carried forward to Next Page						R0,00

Total Carried forward From Previous Page					R0,00
	<u>Tees</u>				
2,12	25 mm dia	No.	1		Nil
2,13	32 mm diam	No.	1		Nil
2,14	40 mm diam	No.	1		Nil
2,15	50 mm diam	No.	1		Nil
2,16	100 mm diam	No.	1		Nil
	<u>Reducers</u>				
2,17	32 - 25 mm dia	No.	1		Nil
2,18	40 - 32 mm diam	No.	1		Nil
2,19	50 mm diam	No.	1		Nil
2,20	100 mm diam	No.	1		Nil
	<u>Isolating valves</u>				
2,21	25 mm dia	No.	1		Nil
2,22	32 mm diam	No.	1		Nil
2,23	40 mm diam	No.	1		Nil
2,24	50 mm diam	No.	1		Nil
2,25	100 mm diam	No.	1		Nil
	<u>Pressure Gauges</u>				
2,26	- Pressure gauge	No.	1		Nil
	<u>Pressure Test</u>				
2,27	- Pressure test piping.	Sum	1		Nil
	<u>Fire Extinguishers</u>				
	Hand held fire extinguishers shall comply with the requirements contained in SANS 1910 or SANS 1151, and shall be installed, maintained and serviced in accordance with SANS 10105-1 and SANS 1475-1.				
	Supply, install, test and commission:				
2,28	4.5 Kg DCP fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm Wrot Meranti backboard, size 250 x 500mm high with chamfered edges, varnish and fixed to wall.	Item	4		In Main BoQ
Total Carried forward to Next Page					R0,00

Total Carried forward From Previous Page						R0,00
	<u>Fire Signage</u>					
	- Aluminium Framed Wall Mounted Frames with ABS PVC 150 mm signs					Rate Only
2,29	2 Compartment	No	0			Nil
2,30	3 Compartment	No	0			Nil
	Aluminium Framed Cantilever "L" Bracket frames with ABS PVC 150 mm signs					Rate Only
2,31	2 Compartment	No	0			Nil
2,32	3 Compartment	No	0			Nil
Total Carried forward to Summary Page						R0.00

**THE APPOINTMENT OF A CONTRACTOR TO CARRY OUT THE PHASE 2 REFURBISHMENT OF
THE EASTERN CAPE FILM**

**NFVF FILM HUB - PHASE 2
FIRE INSTALLATION**

BILL NO.	DESCRIPTION	AMOUNT
1	BILL NO. 1 : PRELIMINARY AND GENERAL	Rates Only
2	BILL NO.2 : FIRE INSTALLATION	Rates Only
3	PROVISIONAL ALLOWANCE FOR FIRE SYSTEM REPAIR AND MAINTENANCE	90,000.00
	Subtotal	78,260.87
3	Add: VAT	15%
		11,739.13
TOTAL CARRIED TO FORM OF TENDER		90,000-00