



KAVANGO EAST REGIONAL COUNCIL DIRECTORATE OF EDUCATION, ARTS AND CULTURE

REQUEST FOR SEALED QUOTATION FOR WORKS

FOR

CONSTRUCTION OF CLASS (THREE CLASSROOM AND STORE)
DIVUNDU COMBINED SCHOOL

Procurement Reference No: W/RFQ/DOEAC-KERC/107/33/2023/2024

Cost: None

Bidder:	
Address:	
Tel:	•••••
Email Address:	• • • • • • • • • • • • • • • • • • • •
Bid Price:	





KAVANGO EAST REGIONAL COUNCIL DIRECTORATE OF EDUCATION, ARTS AND CULTURE

Letter of Invitation

08 May 2023

••••••
Procurement Reference No: W/RFQ/DOEAC-KERC/107/33/2023/2024
CONSTRUCTION OF CLASS (THREE CLASSROOM AND STORE) DIVUNDU COMBINED SCHOOL
Dear Sir/Madam
The Kavango East Regional Council - Directorate of Education, Arts and Culture, will provide you with specification for the items described in details.
Any resulting contract shall be subject to the terms and conditions referred to in the document.
Queries, if any, should be addressed to Mr. V. S. Martin @ 0662589017 for Technical issues and Mr. J Kangumbe @ 066266000 for administrative issues during working hours from 0800 to 1700hours.
Please prepare and submit your quotation in accordance with the specifications and instructions given or inform the undersigned if you will not be submitting a quotation.
Yours faithfully, Yours faithfully, Head Was 2023 Mr. J.M. Kangumbe Yours faithfully, Head Date
Head: Procurement Management Unit

SECTION I: INSTRUCTIONS TO BIDDERS

1. Rights of Public Entity

Kavango East Regional Council – Directorate of Education, Arts and Culture reserves the right:

(a) to split the contract as per the lowest evaluated cost per lot; and

(b) to accept or reject any quotation or to cancel the quotation process and reject all quotations at any time prior to contract award.

2. Preparation of Quotations

You are requested to quote for the works mentioned in Section III, by completing, signing and returning:

- (a) the Quotation Letter in Section II with its annex for Bid Securing Declaration, where applicable;
- (b) the Priced Activity Schedule in Section IV;
- (c) the Specifications and Compliance Sheet in Section V; and
- (d) any other attachment as deemed appropriate

You are advised to carefully read the complete Request for Quotations document, including the Special Conditions of Contract in Section VII, before preparing your Quotation. The standard forms in this document may be retyped for completion but the Bidder is responsible for their accurate reproduction.

NB! Please take note that those already awarded Construction contracts during 2022/2023 Financial Year by the Kavango East Regional Council will not be considered for award

3. Validity of Quotations

The quotation validity period shall be 90 days from the date of bid submission deadline.

4. Eligibility Criteria

To be eligible to participate in this Quotation exercise, you should:

- (a) have a valid copy of company Registration Certificate;
- (b) have a valid original/certified copy of good Standing Tax Certificate;
- (c) have a valid original/certified copy of good Standing Social Security Certificate;
- (d) have a valid certified copy of Affirmative Action Compliance Certificate, proof from Employment Equity Commissioner that bidder is not a relevant employer, or exemption issued in terms of Section 42 of the Affirmative Action Act, 1998;
- (e) have a valid certified copy of SME Certificate Indicating SME Status
- (f) Written undertaking in terms of section 138 of Labour Act, 2015 and section 50(2)(D) of the Public Procurement Act, 2015 and that it will abide to subclause 4.6 of the General conditions of Contract if it is awarded the contract or part thereof;

- (g) Certified Copy of the National Identity Document. In case the company is owned by more than one person, all of them should submit certified copy of National Identity Document.
- (h) Site Foreman to supervise the works must have experience in related works for at least two projects (attach complete curriculum vitae, list of projects with testimonials accompanied with contact details). Where the owner indicates that he/she will be the site Forman, he/she should attach the same.
- (i) Electrician to do the works MUST attach valid certified NORED Licence. NB: The same licence to be availed during construction and practical completion as well as issuance of certificate of compliance
- (j) Section 66 (2B) (A) of the Public Procurement Amendment Act of 2022 shall apply.
- (k) Provide Company experience in related works for at least two projects

Other additional eligible criteria

- 1. Document to be completed with black ink only
- 2. No eraser fluid (tippex) to be used
- 3. All pages to be initialled and signed where applicable
- 4. All corrections must be initialled

5. Bid Securing Declaration

Bidders are required to subscribe to a Bid Securing Declaration for this procurement process.

6. Works Completion Period

The completion period for works shall be **four (4) months** after acceptance and issue of Purchase Order. Deviation in completion period shall not be accepted

Sealing and Marking of Quotations

Quotations should be sealed in a single envelope, clearly marked with the Procurement Reference Number, addressed to the Public Entity with the Bidder's name at the back of the envelope.

7. Submission of Quotations

Quotations should be deposited in the Quotation/Bid Box located at Kavango East Regional Council, Rundu, for Attention Procurement Management Unit not later than 19 May 2023 at 11H00. Quotations by post or hand delivered should reach this office by the same date and time at latest. Late quotations will be rejected. Quotations received by e-mail will not be considered.

8. Opening of Quotations

Quotations will be opened internally by the Public Entity immediately after the closing time referred to in section 7 above. A record of the Quotation Opening stating the name of the bidders, the amount quoted the presence or absence of a Bid Securing Declaration. Opening register will be made available on request after three days of opening.

9. Evaluation of Quotations

The Public Entity shall have the right to request for clarifications in writing during evaluation. Offers that are substantially responsive shall be compared on the basis of evaluated cost, subject to Margin of Preference where applicable, to determine the lowest evaluated quotation.

10. Technical Compliance

The Specifications and Compliance Sheet details the minimum specifications of the works to be carried out. The specifications have to be met, but no credit will be given for exceeding the specifications.

11. Prices and Currency of Payment

Prices for the execution of works shall be fixed in Namibian Dollars as quoted. Quotations shall cover all costs of labour, materials, equipment, overheads, profits and all associated costs for performing the works, and shall include all duties. The whole cost of performing the works shall be included in the items stated, and the cost of any incidental works shall be deemed to be included in the prices quoted.

12. Margin of Preference

12.1 Not applicable to this Bid.

13. Award of Contract

The Bidder having submitted the lowest evaluated responsive quotation and qualified to perform the works shall be selected for award of contract. Award of contract shall be by issue of a Purchase Order/Letter of Acceptance in accordance with terms and conditions contained in Section VI: Contract Agreement and General Conditions of Contract.

SECTION II: QUOTATION LETTER

(to be completed by Bidders)

[Complete this form with all the requested details and submit it as the first page of your quotation with the Priced Activity Schedule and documents requested above. A signature and authorisation on this form will confirm that the terms and conditions of the RFQ prevail over any attachments. If your quotation is not authorised, it will be rejected.

Procurement Reference Number: Subject matter of Procurement: We offer to execute the Works detailed in the Statement of Requirements, in account of the Statement of Requirements.		
We offer to execute the Works detailed in the Statement of Requirements, in ac-		
terms and conditions stated in your Request for Sealed Quotations referenced above	eccordance with the	
We confirm that we are eligible to participate in this Quotation exercise and a criteria specified in Section 1: Instructions to Bidders	meet the eligibility	
We undertake to abide by the Conduct of Bidders and Suppliers as provided Procurement Act during the procurement process and the execution of any resulting	d under the Public g contract.	
We have read and understood the content of the Bid Security/Bid Securing attached hereto and subscribe fully to the terms and conditions contained the understand that this subscription could lead [forfeiture of the security amount / the grounds mentioned in the BDS]	herein. We further	
The validity period of our Quotation is days [insert number of days] to bid submission deadline.	from the date of the	
We confirm that the prices quoted in the Priced Activity Schedule are fixed and subject to revision or variation, if we are awarded the contract prior to the quotation validity.	firm and will not be expiry date of the	
Works will commence within [insert number] days from date of Order/ Letter of Acceptance.	of issue of Purchase	
Works will be completed within [insert number]days from Purchase Order/ Letter of acceptance.	m date of issue of	
Quotation Authorised by:		
Name of Bidder Company's Address and seal		
Contact Person		
Name of Person Authorising the Quotation: Position: Signature:	:	
Date Phone No./E-mail		

BID SECURING DECLARATION

(Section 45 of Act) (Regulation 37(1) (b) and 37(5))

Date:[Day month year]	
Procurement Ref No.: W/RFQ/DOEAC-KERC/107/33/2022/2023	
To: Kavango East Regional Council – Directorate of Education, Arts and Culture	
I/We* understand that in terms of section 45 of the Act a public entity must include in the biddecument the requirement for a declaration as an alternative form of bid security.	ling
I/We* accept that under section 45 of the Act, I/we* may be suspended or disqualified in the event of	
(a) a modification or withdrawal of a bid after the deadline for submission of bids during period of validity;	the
(b) refusal by a bidder to accept a correction of an error appearing on the face of a bid;	
(c) failure to sign a procurement contract in accordance with the terms and conditions set f in the bidding document, should I/We* be successful bidder; or	orth
(d) failure to provide security for the performance of the procurement contract if required to so by the bidding document.	o do
I/We* understand this bid securing declaration ceases to be valid if I am/We are* not the successful Bidder	
Signed:	
Capacity of:	
Name:	
Duly authorized to sign the bid for and on behalf of: [insert complete name of Bidder]	
Dated on day of	
Corporate Seal (where appropriate)	
[Note*: In case of a joint venture, the bid securing declaration must be in the name of all partners joint venture that submits the bid.]	o the



Republic Of Namibia

Ministry of Labour, Industrial Relations and Employment Creation

Witten undertaking in terms of section 138 of the Labour Act, 2015 and section 50(2)(D) of the Public Procurement Act, 2015

1. EMPLOYERS DETAILS

Company Trade Name:
Registration Number:
Vat Number:
Industry/Sector:
Place of Business:
Physical Address:
Tell No.:
Fax No.:
Email Address:
Postal Address:
Full name of Owner/Accounting Officer:
(a, a, , a,
Email Address:

2. PROCUREMENT DETAILS Procurement Reference No.: Procurement Description: Anticipated Contract Duration: Location where work will be done, good/services will be delivered: 3. UNDERTAKING I [insert full name], owner/representative [insert full name of company] hereby undertake in writing that my company will at all relevant times comply fully with the relevant provisions of the Labour Act and the Terms and Conditions of Collective Agreements as applicable. I am fully aware that failure to abide to such shall lead to the action as stipulated in

section 138 of the labour Act, 2007, which include but not limited to the cancellation of the contract/licence/grant/permit or concession.

Signature:
Date:
Seal:

Please take note:

A labour inspector may conduct unannounced inspections to assess the level of compliance

This undertaking must be displayed at the workplace where it will be readily accessible and visible by the employees rendering service(s) in relations to the goods and services being procured under this contract

- A. SCOPE OF WORKS, SPECIFICATIONS AND PERFORMANCE REQUIREMENTS
- B. BILL OF QUANTITY IS ATTACHED

SECTION IV: PRICED ACTIVITY SCHEDULE

Procurement Reference Number: W/RFQ/DOEAC-KERC/107/33/2023/2024

[Complete the unit and total prices for each item listed below. Authorise the prices quoted in the signature block below.]

The quantities shown below are approximate and not subject to re-measurement for payment purposes.

Item No	Brief Description of Works	Quantity	Unit of Measure	Unit Price (N\$)	Total Price (N\$)
A*	B*	C*	D*	E	F
1	CONSTRUCTION OF CLASS (THREE CLASSROOM AND STORE) DIVUNDU COMBINED SCHOOL AS PER ATTACHED BILL OF QUANTITY	1			
	Enter 0% VAT rate if VAT exem	npt.	Subtotal		
	Enter 0/0 v/rr rate ir v/rr exempt.		VAT @ 15 % Total		

^{*}Columns A to D to be completed as applicable by the Public Entity

Priced Activity Schedule Authorised By:

Name:		Signature:	
Position:		Date:	
Authorised for and on behalf of:	Company		

SECTION V: SPECIFICATIONS AND COMPLIANCE SHEET

Procurement Reference Number: W/RFQ/DOEAC-KERC/107/33/2023/2024

[Bidders should complete columns C and D with the specifications and performance of the Works offered. Also state "comply" or "not comply" and give details of any non-compliance/deviation to the specifications required. Attach detailed technical literature if required. Authorise the specifications offered in the signature block below]

Item Specifications and Performance Required		Compliance of Specifications and Performance Offered	Details of Non-Compliance/ Deviation (if applicable)	
A*	<i>B</i> *	C	D D	
1	CONSTRUCTION OF CLA3S (THREE CLASSROOM AND STORE) DIVUNDU COMBINED SCHOOL AS PER ATTACHED BILL OF QUANTITY			

Specifications and Compliance Sheet Authorised By:

Name:	Signature:
Position:	Date:
Authorised for and on behalf of:	Company

^{*} Columns A and B to be completed by Public Entity.

SECTION VI: GENERAL CONDITIONS OF CONTRACT AND CONTRACT AGREEMENT

Any resulting contract shall be placed by means of a Purchase Order/Letter of Acceptance and shall be subject to the General Conditions of Contract (GCC) for the **Procurement of works** – **Ref. W/RFQ/DOEAC-KERC/107/33/2023/2024**

SECTION VIII SPECIAL CONDITIONS OF CONTRACT

Procurement Reference Number:

W/RFO/DOEAC-KERC/107/33/2023/2024

The clause numbers given in the first column correspond to the relevant clause number of the General Conditions of Contract.

GCC Clause Reference	Special Conditions	
Employer GCC 1.1(r)	Kavango East Regional Council – Directorate of Education, Arts and Culture	
Intended Completion Date GCC	The intended completion date is: September 2024	
Project Manager GCC 1.1(y)	The Project Manager is: Mr. G. Sikoka	
Site GCC 1.1(aa)	The site is at: DIVUNDU COMBINED SCHOOL	
Start Date GCC 1.1(dd)	The Start Date shall be: June 2023	
The Works GCC 1.1(hh)	The Works consist of: CONSTRUCTION OF CLASS DIVUNDU COMBINED SCHOOL	
Interpretation GCC 2.2	The project will be completed in the following sections: Four (4) Months	
Interpretation	The following additional documents shall form part of the contract:	
GCC2.3	Bill of Quantity, Standard Drawings, Purchase Order and appointment letter	
Language and Law GCC 3.1	The language of the contract is English The law that applies to the Contract is the law of Namibia.	
Project Manager's	The Project Manager shall obtain specific approval from the Employer before carrying out any of his duties under the Contract which in the Project Manager's	

GCC Clause Reference	Special Conditions		
Decisions 4.1	opinion will cause the amount finally due under the Contract to exceed the Contract Price or will give entitlement to extension of time. This requirement shall be waived in an emergency affecting safety of personnel or the Works or adjacent property.		
Delegation GCC 5.1	The Project Manager may delegate his/her duties.		
Notices	Any notice shall be sent to the following addresses:		
GCC 6	For the Employer, the address shall be as given on the page 2 of this Bidding Document and the contact name shall be		
	Ms. Ludgela Nangura		
	P/bag 2124, Rundu		
	For the Contractor, the address shall be as given on the first page of the Purchase Order/Letter of Acceptance and the contact name shall be		
Insurance	Not applicable		
GCC 13.1			
Site Date GCC 14.1	Not applicable		
	m c' p ' p 1 111 - T- 2022		
Possession of the Site	The Site Possession Date shall be: June 2023		
GCC 20.1			
Procedure for Disputes GCC 24	No Adjudicator shall be appointed under the contract and arbitration shall not apply. If any dispute arises between the Employer and the Contractor in connection with or arising out of the Contract, the parties shall seek to resolve any such dispute by amicable agreement. If the parties fail to resolve such dispute by amicable agreement, within 14 days after one party has notified the other in writing of the dispute, then the dispute shall be referred to court by either party.		
Program GCC 25.1	The Contractor shall submit for approval a Program for the Works within 5 days from the date of the Letter of Acceptance or issue of Purchase Order Agreement.		
GCC 25.3	Program updates shall be required.		
Defects Liability Period GCC 33.1	The Defects Liability Period is: 12 Months.		
Payment Certificates GCC 39.7	Payment shall be made as per progress of works		

GCC Clause Reference	Special Conditions
Payments GCC 40	The amount certified by the Project Manager shall be paid in full within 30 days of receipt by the Employer of an invoice, supported by: (a) the payment certificate; and (b) a certificate of Completion of the Works.
Adverse weather Conditions GCC 41.1 (l)	Rain, Storm, Flood
Price Adjustment GCC 44.	The Contract is not subject to price adjustment.
Retention GCC 45.	(ii) 5% of the amount shall be retained from any payment. Half of the retention money will be released after formal taking over of the Works and the remaining shall be released after the Defect Liability Period subject to the Contractor making good all defects.*
Liquidated Damages GCC 46.1	5% of the amount shall be retained from the total amount per day as penalties
Bonus GCC 47.1	Not applicable
Advance Payment GCC 48.1	No advance payment shall be made
Performance Security GCC 49.1	Not applicable
GCC 56.1	Not applicable
GCC 59.1	Not applicable

QUOTATION CHECKLIST SCHEDULE

Procurement Reference No.: W/RFQ/DOEAC-KERC/107/33/2023/2024

Description	Attached	Not Attached
Bid Letter		
List of Goods and Price Schedule		
Specification and Compliance Sheet		
Bid Securing Declaration		
Quotation		
Valid Original or Certified Good Standing Tax Certificate		
Valid Original or Certified Good Standing Social Security		
Certificate		
Valid Company Registration		

Disclaimer: The list defined above is meant to assist the Bidder in submitting the relevant documents and shall not be a ground for the bidder to justify its non-submission of major documents for its quotation to be responsive. The onus remains on the Bidder to ascertain that it has submitted all the documents that have been requested and are needed for its submission to be complete and responsive.

BILLS OF QUANTITIES

FOR: CLA 3 S (THREE CLASSROOM BLOCK AND STORE) AT DIVUNDU C.S

NOTES:

- Please take note that this two classroom block is based on drawings and specifications as attached
- 2. Items have been coded for procurement for three class room block (CLA3S) at Divundu C.S
- Descriptions and specifications in the Bill of Quantity to be read in conjunction with the drawings
- 4. Some descriptions and specifications on the drawings have been replaced as indicated in the Bill of Quantity. Bidders are hereby advised to ignore the information on the drawings which have been changed. Information regarding soil conditions, the supply and availability of water and electricity is responsibility of the contractor.

All unforeseen items to be measured and adjusted by the client's representative in this regard to reflect "as per built in" project upon completion of construction.

A contingency allowance has been made to cover unforeseen items, but will be reviewed assessed by client representative. But will have to be reviewed by the client representative once the construction process commences

MODULE: CLA3S Item Quantity Rate Amount No SECTION NO. 1 BILL NO. 1 **FOUNDATIONS (PROVISIONAL)** For Preambles refer to "Model Preambles for Trades" SUPPLEMENTARY PREAMBLES Nature of ground The nature of the ground is loose sandy material, therefore "earth" Earth All material which is pickable or which can be excavated by means of a backactor (complete with all equipment and accessories and in good condition, producing not less than 57kw (gross) at the flywheel and with a bare tractor mass of not less than 7900kg, equipped with 600mm wide bucket with matching teeth) will be classified as "earth". All boulders not exceeding 0,3m3 in volume will also be classified as "earth" Soft rock All material which can not be removed as described above, but the removal of which necessitates the use of jack hammers with moil points, will be classified as "soft rock" Hard rock All very hard material which can not be removed as described above, but the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock" Risk of collapse No risk of collapse will be measured or paid. It is the responsibility of the Contractor to ensure that the sides of the excavations are supported and that they do not collapse. In the event of the sides of the excavations collapsing, the Contractor must at his own cost remove all loose material and compact the bottoms of the trenches, holes, etc. **Carried to Collection** N\$ Section No. 1 Bill No. 1 Foundations (Provisional)

REVISED MODULES (2008)

Carting away of excavated material Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site Concrete Prices for concrete cast against excavated surfaces shall include for casting against all types of material in the excavations and shall include for additional concrete required in filling to irregularities. **Formwork** Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" **EARTHWORKS EXCAVATION, FILLING, ETC** Excavation in earth exceeding 1m deep for: Trenches and holes m3 45 Selected earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm Under floors, steps, pavings, etc m3 17 Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density in layers not exceeding 150mm Backfilling to trenches, holes, etc m3 22 **Carried to Collection** N\$ Section No. 1 Bill No. 1 Foundations (Provisional) REVISED MODULES (2008)

		Earth filling supplied by the Contractor compacted to 93 Mod AASHTO density in layers not exceeding 150mm	%			
7000 7000 7000 7000	4	Unider floors, steps, pavings, etc	m3	43	-	
		Coarse river sand filling supplied by the contractor				
	5	Approved clean earth filling laid over poisoned areas under floors	m3	9	-	
		Compaction of surfaces				
	6	Compaction of ground surface under apron slabs, ramps, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting at Optimum Moisture Content (OMC) to 90% Mod AASHTO density		104		
		CARTING AWAY				
		Extra over all excavations for loading, carting and dumping surplus excavated material:				
7	7	Off site to a dumping ground to be located by the Contractor	m3	6		
		SOIL POISONING		1		
	i	"Shell-Chem" or other approved anti-termite chemical soil poison				
8	util "	Under floors, etc including forming and poisoning shallow urrows against foundation walls etc, filling in furrows and amming	m2	172		
9	Т	o bottoms and sides of trenches, etc	m2	191		
	<u>C</u>	CONCRETE, FORMWORK AND REINFORCEMENT				
	UE	IN-REINFORCED CONCRETE CAST AGAINST XCAVATED SURFACES				
	2	5MPa/19mm concrete in:				
10		trip footings	m3	13		
	<u>3</u>	TEEL REINFORCEMENT				
}.	Bill Fo	ection No. 1 I No. 1 undations (Provisional) EVISED MODULES (2008)			N\$	

	High tensile steel reinforcement to structural concrete work				
	12mm Diameter bars	¹kg	448		
12	10mm Diameter bars	kg	186		
	BRICKWORK				
	Brickwork in 7 MPa cement bricks in Class I mortar				
13	Half brick walls	m2	13		
14	One brick walls	m2	65		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
15	75mm Wide reinforcement built in horizontally	m	156		
		***	100		
16	150mm Wide reinforcement built in horizontally	m	770		
		1			
		\$			
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oundations (Provisional) EVISED MODULES (2008)			

MODULE: CLA 3 S ltem Quantity Rate Amount No **SECTION NO. 1** BILL NO. 2 CONCRETE, FORMWORK AND REINFORCEMENT For Preambles refer to "Model Preambles for Trades" SUPPLEMENTARY PREAMBLES Cost of tests The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Engineer. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Engineer. (Test cubes are measured separately) **Formwork** Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use Formwork to soffits of solid slabs, etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations. provision for which is made in "Earthworks" **UNREINFORCED CONCRETE Carried to Collection** N\$ Section No. 1 Bill No. 2

Concrete, Formwork & Reinforcement

REVISED MODULES (2008)

	25MPa/19mm concrete in:				1
1	Surface beds cast in panels on waterproofing	m3	17		
2	Apron slabs and ramps cast in panels	m3	10		
3	Extra for thickening out 100mm thick apron slab to form toe size 200mm x 400mm deep overall tapering to 150mm wide x 400mm deep overall with one chamfered edge including all necessary excavation, formwork and dressing of damp proof material around same as required	m	75		
	REINFORCED CONCRETE	0			
	25MPa/19mm concrete in:				
4	Pockets	m3	4		
	TEST BLOCKS				
	Test Cubes				
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Department of Works. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Department of Works.				
. /	Making and testing 150 x 150 x 150mm concrete strength test cube	No	12		
2	CONCRETE SUNDRIES				
<u> </u>	Finishing top surfaces of concrete smooth with a wood				
6 F	Ramps, aprons, etc to falls	m2	104		
<u> </u>	Finishing top surfaces of concrete smooth with a wood loat				
7 S	Surfacebeds, slabs, etc	m2	172	1.5	
B	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
Bi	ection No. 1 ill No. 2 oncrete, Formwork & Reinforcement EVISED MODULES (2008)			N\$	
Bi Co	ection No. 1 ill No. 2 oncrete, Formwork & Reinforcement			N\$	

	Rough formwork not exceeding 3,5m high to sides of:				1	1
. 8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	76			
9	Both exposed sides of pockets in one brick recess size 450mm x 4 courses high overall	No	16			
	MOVEMENT JOINTS, ETC					
	One layer of 250 micron "USB Green" or similar approved waterproof sheeting in slip joints between horizontal concrete and steel surfaces					
10	In short lengths not exceeding 300mm wide	m	2			
	Vertical construction joints through concrete					
11	Surface beds and/or apron slabs not exceeding 300mmm thick					
	Saw cut Joints	m	36			
12	3mm x 50mm Saw cut joints in top of concrete	m	45			
		İ				
				8		
	Carried to Collection					
	Section No. 1 Bill No. 2 Concrete, Formwork & Reinforcement REVISED MODULES (2008)			N\$		
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Section No. 1 Bill No. 2			
Concrete, Formwork & Reinforcement REVISED MODULES (2008)			

Item No			Quantity	Rate	Amount
15	SECTION NO. 1				, anount
	BILL NO. 3				
	MASONRY				
	For Preambles refer to "Model Preambles for Trades"				
	BRICKWORK				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Brickwork in 7 MPa cement bricks in Class II mortar				
1	Half brick walls	m2	38		
2	One brick walls	m2	169		
3	Half brick walls in beamfilling	m2	12		
	BRICKWORK SUNDRIES				
	Joint forming material in movement joints				
4	10mm Thick bitumen impregnated softboard expansion joint filling built through brick walls	m2	1		
	Brickwork reinforcement				
5	75mm Wide reinforcement built in horizontally				
6	150mm Wido reinference to the control of the contro	m	111		
-	150mm Wide reinforcement built in horizontally Prestressed fabricated lintels	m	754		
7	110mm x 75mm Lintels in lengths not exceeding 3m	m			
	Brick-on-edge header course copings, sills, etc		66		
8	220mm Wide sill set sloping and slightly projecting				
		m	24		
	Section No. 1 Bill No. 3 Masonry REVISED MODULES (2008)			N\$	

) 1	bedded in class I mortar including metal fixing lugs etc 15 x 150mm silis set flat and slightly projecting		5		
	Vermin proof air bricks and vents including forming opening in wall and rendering smooth all round in cement mortar	m	-10		
	230mm x 160mm Galvanised air brick	No	6		
				2"	
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3il Vla	ection No. 1 I No. 3 asonry EVISED MODULES (2008)			N\$	

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Masonry			
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******	BILL NO. 4			2	
	WATERPROOFING				
	For Preambles refer to "Model Preambles for Trades"				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Brikgrip DPC" or similar approved embossed damp proof course				
1	In walls	m2	17		
	One layer of 250 micron "USB Green" or other similar waterproof sheeting sealed at laps with "Pressure Sensitive Tape" or similar approved	-	17		
2	Under surface beds, apron slabs, etc	m2	172		
	JOINT SEALANTS, ETC	1112	172		
	Approved polyurethane sealing compound including backing cord, bond breaker, primer, etc				
3	6mm x 20mm In saw cut joints in floors	m	45		
4	10mm x 20mm In vertical expansion joints including raking out 20mm softboard in joints as necessary	m	11		
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Item No			Quantity	Rate	Amount
	SECTION NO. 1				
	BILL NO. 5				
	ROOF COVERINGS, ETC				
	For Preambles refer to "Model Preambles for Trades"				
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,5mm "IBR" galvanised steel profiled sheeting and accessories fixed to steel/timber purlins in accordance with the manufacturer's instructions				
1	Roof covering in single lengths with pitch not exceeding 25 degrees fixed to steel purlins	m2	274		
2	Standard "IBR" galvanised half-round ridge capping including flute closers both sides	m	25		
	ROOF INSULATION "Sisalation 400" or similar approved industrial grade aluminium foil based insulation				
3	Insulation laid taut over purlins (at approximately 1 200mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	196		
	SUNDRIES				
	Approved oil/gease				
4	Apply one layer approved oil to roof sheeting bedded on brickwork (Provisional)	m2	9		
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	SECTION NO. 1				Amount
	BILL NO. 6				
	CARPENTRY AND JOINERY				
	For Preambles refer to "Model Preambles for all Trades"				
	WALL PROTECTION RAILS, ETC				
	Supawood				
	Refer to Architect's drawing No. F34 when pricing the following bumper rail (the drawing is attached to these Bills of Quantities)				
11.	150mm x 22mm Rebated wall protector rail with exposed rounded edges plugged to brickwork at 450mm centres (finishes elsewhere measured)	m	58		
Bill Car	Carried Forward to Summary of Section No. 1 No. 6 pentry & Joinery VISED MODULES (2008)			N\$	

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Item No			Quantity	Rate	Amou	nt
	SECTION NO. 1					
	BILL NO. 7					
	CEILINGS, PARTITIONS AND ACCESS FLOORING					
	For Preambles refer to "Model Preambles for Trades"					
	SUPPLEMENTARY PREAMBLES				12	
	Descriptions					
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete					
	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 elsewhere					
	METAL CEILINGS					
	0,5mm Thick "I.B.R" profile "Alu Zinc AZ 185" galvanised sheet steel fixed to steel purlins					
1	Ceilings pop riveted to steel purlins (elsewhere)					
		m2	175			
	Metal cornice					
2	50mm x 50mm x 3mm x 2,24kg/m Mild steel cornice to suit horizontal ceilings screwed with 6mm diameter x 20mm long stainless steel self-tapping screws to sheet steel ceiling and plugged with 5mm thick sawn softwood spacer to brickwork/concrete at maximum 500mm centres				>	
		m	62			
	Sundries					
3	Extra over "I.B.R." ceiling for access hatch 800mm x 800mm formed of 30mm x 30mm x 2,5mm thick mild steel frame filled in with "I.B.R" sheeting and set into 30mm x 30mm x 2,5mm					
	mild steel frame riveted to steel purlin	No	1			
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	Ceilings, Partitions & Access flooring REVISED MODULES (2008)					
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4	Apply one layer approved oil to ceiling brickwork	sheeting bedded on	m2		
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	BILL NO. 8				
	IRONMONGERY				
	For Preambles refer to "Model Preambles for Trades"				
	SUPPLEMENTARY PREAMBLES				
	Prices must allow for fixing to timber, steel and plastered or tiled walls as may be necessary.				
	All locks are to have consecutive numbers stamped on the forend and to be supplied with two keys attached to and including an approved chromium plated split ring; in addition prices are to include for the supply of one standard plastic tag key ring with number written on paper strip and one 35mm diameter circular key tags formed of 3mm thick perspex plates engraved in black with 6mm high numerals and letters corresponding with the respective lock numbers, holed for and fitted to split ring.		·		
	All locks to be fitted with pattern screws.				
	CATCHES, CABIN HOOKS, ETC				
1	"Halcast 166" or similar approved 150mm long brass storm hook and cleat plugged	No	1		
	LOCKS	1			
	"Union" or other approved				
2	"UN33780000000" or similar approved brass padlock.	Nia			
	LETTERS, NAMEPLATES, ETC	No	4		
	1,2mm Thick natural anodised aluminium signage numberplate black engraved in 15mm high "Bold Condensed Helvetica" letters screwed to doors with aluminium counters sunk screws and sealed with approved silicone sealant as follows:				
3	50mm x 25mm with 2 letters and/or numerals	No	5		
	Section No. 1 Bill No. 8 Ironmongery REVISED MODULES (2008)			N\$	
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	1,2mm Thick natural anodised aluminium signage nameplate black engraved in 30mm high "Bold Helvetica" letters screwed to doors with countersunk aluminium screws and sealed with approved silicone sealant as follows:				
4	300mm x 100mm with 5 letters or numerals			=	
5	360mm x 100mm with 10 letters or numerals	No	1		
	SUNDRIES	No	3		
6	"Union" AL8730 AS or similar approved 38mm diameter black rubber door stop, plugged	No	4		
	SHELVES, ETC				
	"Storage Direct" or other similar approved				
7	ndustrial standard module adjustable bolted shelving unit 914 mm x 305mm x 1 905mm high consisting of four uprights, one top and botton shelf bay unit (code: BF 2134305 cut to specified height) and five shelves (code BS 305), all inclusive of all corner gussets, nuts and bolts including bolting to similar adjacent bays				
		No	12		
	STEEL LOCKERS				
	"Storage Direct" or other similar steel lockers with standard baked enamel finish				
8	Standard teacher's cupboard size 900mm x 450mm x 1800mm with four adjustable shelves (code: CU10) fixed to brickwork with 4, 6x4 "Rawl" coach screws	No	3		
8	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC				
	"Storage Direct" or similar approved				
9	Steel framed chalkboard (code: SYS 1000) size 2 700mm x 1 140mm with magnetic non-reflective steel surface and aluminium chalk rail, plugged sys1000				
	3y31000	No	3		
	Section No. 1 Bill No. 8 Ironmongery REVISED MODULES (2008)			N\$	

	"Vitrex" or similar approved				T .	
10	Model 2300 "code 2315" aluminium framed pinning board size 1 000mm x 1 200mm high with "misty (light grey)" pinning surface, plugged to wall		1 800			
		No	6			
11	Model 2300 "code 2309" aluminium framed pinning board size 2 400mm x 1 200mm high with "misty (light grey)" pinning surface, plugged to wall	No	6			
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SECTION NO. 1			
BILL NO. 9			
STRUCTURAL STEELWORK			
For Preambles refer to "Model Preambles for Trades"			
SUPPLEMENTARY PREAMBLES			
Descriptions			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.			
All steel to be painted with two coats red oxide primer before delivery to site			
Structural steel components and the calculation of masses are in accordance with "Structural Steel Tables" issued by the South African Institute of Steel Construction.			
Prices for structural steelwork are to include for all cutting, fitting, welding, drilling of holes or slotted holes, bolts, nuts, washers, etc. and for bolting and welding components together either in the place of manufacture or on the site.			
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	All steel work build into brickwork or concrete to be wrapped in two layers with DPC extending for a minimum of 150mm both sides of brickwork or concrete. STEEL RAFTERS, TRUSSES, ETC Welded roof trusses of 50mm x 50mm x 5mm angle section					
	top- and bottom cords and 40mm x 40mm x 5mm angle section intermediate members including all angle rails, struts, braces, cleats, etc and flat section bearer, gusset and connection plates bolted to steel or fixed to concrete					
1	Double pitched trusses 10,440m x 1,095m high extreme	kg	860			
	Baseplates, bolts to trusses, etc				,	
2	150mm x 85mm x 6mm Base plate 12mm diameter mild steel U-bolt 700mm girth with 75mm	kg	10			
	threaded ends cast into concrete ringbeam	No	16			
4	M8 "Rawl" bolt 100mm long	No	64			
	PURLINS, GIRTS, BRACING, ETC					
	Purlins and girts welded to steel					
5	100mm x 50mm x 20mm x 2,5mm Lipped channel section purlins	kg	1,140			
6	75mm x 50mm x 20mm x 2,5mm 3,85kg/m Lipped channel section purlins	kg	680			
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SECTION NO. 1			
BILL NO. 10			
METALWORK			
For Preambles refer to "Model Preambles for Trades"			
SUPPLEMENTARY PREAMBLES			
Descriptions			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete	-		
Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described			
All steelwork to be primed and to receive two coats cold galvanised paint			
WELDED SCREENS, GATES, ETC			
Security gates			
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	Refer to Architect's drawings No. D12a, D12b, No. D13a and							
	D13b when pricing the following security gates (the drawings are attached to these Bills of Quantities)							
	are attached to these bills of Quantities)							
	Single gate to suit door opening 813mm x 2 337mm high					- 1		
	overall, formed of 40mm x 40mm x 2,5mm hollow section frame divided in two panels with two 40mm x 40mm x 2,5mm							
	horizontal intermediate middle rails 200mm apart and filled in							
	with 3mm thick mild steel plate, each panel filled in with five 15							
	mm x 15mm x 2mm hollow section vertical bars at equal	,						
	centres, the entire gate hung on and including three 100mm							
	steel weld-on lift-off hinges fitted onto 3mm thick mild steel							d
	plate welded into both sides of rebate of metal frame (elsewhere) including "Union L-21315-40PL" or similar							- 1
	approved narrow style cylinder deadlock suitable for					1		
	masterkeying with striking plate and "Union 5375-05AS" or		1			1		
	similar approved escutcheons and with 3mm mild steel plate			1		ŀ		
	75mm wide x 200mm high welded to gate frame to cover lock							
	bolt (paintwork elsewhere) (D12) as Item No: Non Scheduled		2					
		No		4				
	PRESSED STEEL SINGLE PANEL STEEL CHAWL					1		
	DOORS AND FRAMES							
	1,2mm "Wispeco Single Panel Steel Chawl" or similar							
	approved doors							1
_								
2	Door 813mm x 2 032mm high with rebated frame suitable for			1				
	one brick wall with padlatch with independant operation from inside fitted with standard steel hinges and striking plate							İ
	standard deed minges and striking plate	No	3					
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3	Door 813mm x 2 032mm high with 305mm high fanlight with							
	rebated frame suitable for one brick wall with padlatch with independant operation from inside fitted with standard steel							
	hinges and striking plate	No	4					1
		INU	1					
	STEEL WINDOWS, DOORS, ETC	ŀ						
	Standard residential windows with NBP33 burglar bars to	1				1		
	all sections			it.				
4	Window to a NGO 4 000							
4	Window type NG2, 1 022mm x 359mm high							
		No	1			1		
5	Window type ES4H, 1 511mm x 654mm high							
		No	6					
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	Metalwork							
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6	Windows type ES4H and E9H, both 1 511mm and welded together to form window size 1 511 high overall	x 654mm high mm x 1 308mm	No.	9	
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	SECTION NO. 1				
	BILL NO. 11		ű.		
	PLASTERING				
	For Preambles refer to "Model Preambles for Trades"				
	INTERNAL PLASTER				
	1:5 Cement plaster on brickwork				
1	On walls	m2	255		
2	On narrow widths	m2	9		
	1:5 Cement plaster on concrete				
	EXTERNAL PLASTER				
	1:5 Cement plaster on brickwork				
3	On walls	m2	163		
4	On walls in foundations (Provisional)	m2	16		
5	On narrow widths	m2	6		
6	On sloping top, edge and projecting soffit of sills 300mm girth			;	
	CORNER PROTECTORS DIVIDING CORNER	m	24		
7	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
·	25mm x 25mm x 3mm Mild steel angle section corner protectors in varying lengths with 25mm x 3mm fish tail lugs				
	50mm long welded on at 500mm centres including embedding in concrete	kg	4		
8	50mm x 50mm x 5mm Mild steel angle section corner				
	protectors in varying lengths with 30mm x 3mm fish tail lugs 200mm long welded on at 400mm centres including embedding in concrete				
9		kg	125		
	3mm x 20mm Flat section brass dividing strips between different floor finishes	m	3		
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10	5mm x 50mn on edge and	n Flat secti embedded	on brass wea I in concrete	atherbar cut t threshhold	o lengths, set				
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	BILL NO. 12			
	GLAZING			
	For Preambles refer to "Model Preambles for Trades"			
	GLAZING TO STEEL WITH PUTTY			
	4mm "Ampaguard"			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2			
	m2	24		
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	BILL NO. 13		T THE STATE OF THE		
	PAINTWORK				
	For Preambles refer to "Model Preambles for Trades"				
	ON FLOATED PLASTER				
	Prepare and apply one coat plaster primer and two coats "Plascon Double Velvet" or similar approved paint	e)			
1	On internal walls	m2	263		
	Prepare and apply two coats high gloss enamel paint	-			
2	On internal walls in skirtings 100mm high	m	102		
	Prepare and apply one coat plaster primer and two coats exterior quality "Plascon Polvin" or similar approved super acrylic PVA paint				
3	On external walls	m2	176		
4	On external valls in foundations (Provisional)	0			
	ON FIBRE-CEMENT	m2	16		
	Prepare and apply one coat undercoat and two coats exterior quality "Plascon Polvin" or similar approved super acrylic PVA paint				Δ
5	On window cills	m2	.2		
	ON METAL				
	Prepare, touch up factory primer and apply one coat universal undercoat and two coats high gloss enamel paint				1
6	On door frames	m2	8		
7	On doors	m2	14		
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	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2		4
esty	On windows with burgiar bars (both sides measured over the full flat area)	-m2	48	3
10	On exposed members of roof trusses, purlins, etc,	m2	57	,
	Prepare, remove storage oil with galvanised roof cleaner, rinse with clean water and apply two coats acrylic PVA	1112	57	
11	Į	m2	178	
	ON WOOD			
	Prepare and apply two coats clear varnish			
12	On skirtings, rails, etc. not exceeding 300mm girth:			
	Floor tiles	m	58	
	300x300mm porcelain full body ceramic tiles laid on Screed (elsewhere measured) with adhesive and Including jointing and pointing with dove grey tiles gro In strict accordance with the manufacture's instruction	ut		
13	on floors and landings	m²	173.28	
14	skirting 100mm high	m	99.38	
15	floor to patterns	m²	173.28	
16	similar approved natural anodized aluminum tiles edge Trim Cut to lengths and bedded in tile adhesive	m	99.38	
17	deco m 80 D" or similar approved solid brass tiles edge Trim cut to length and bedded in tiles adhesive	m	4	
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	SECTION NO. 2			
	BILL NO. 14			
	EXTERNAL WORKS			
	For Preambles refer to "Model Preambles for Trades".			
	The Contractor is referred to the previous Sections for the full descriptions of labour and material which apply equally to the items in this Section unless otherwise described			
	SITE CLEARANCE			
	Cutting down and removing, grubbing up and filling in hole			
	Tree exceeding 100mm and not exceeding 200mm girth NO.	2		
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Bill No 1 Foundations (Provisional) 2 Concrete, Formwork & Reinforcement 3 Masonry 4 Waterproofing 5 Roof coverings 6 Carpentry & Joinery 7 Ceillings, Partitions & Access flooring 1 Ironmongery 9 Structural Steelwork 9 Metalwork 10 Metalwork 11 Plastering 12 Glazing 13 Painting External Work Section No. 1 REVISED MODULES (2008) Amount Anount Anount Amount Anount Anount Anount Anount Anount An		SECTION SUMMARY - Building Works		i i
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5 Roof coverings -15- 6 Carpentry & Joinery -16- 7 Ceilings, Partitions & Access flooring -19- 8 Ironmongery -23- 9 Structural Steelwork -26- 10 Metalwork -30- 11 Plastering -34- 12 Glazing -34- 13 Painting -37- 14 External Work -38- Section No. 1 Carried to Final Summary N\$	4	Waterproofing		
6 Carpentry & Joinery 7 Ceilings, Partitions & Access flooring 8 Ironmongery 9 Structural Steelwork 10 Metalwork 11 Plastering 12 Glazing 13 Painting 14 External Work Section No. 1 Carried to Final Summary N\$	5	Roof coverings		
7 Ceilings, Partitions & Access flooring 8 Ironmongery 9 Structural Steelwork -26- 10 Metalwork -30- 11 Plastering -33- 12 Glazing -34- 13 Painting -37- 14 External Work Section No. 1 Carried to Final Summary N\$	6	Carpentry & Joinery		1
8	7	Ceilings, Partitions & Access flooring		
9 Structural Steelwork -26- 10 Metalwork -30- 11 Plastering -33- 12 Glazing -34- 13 Painting -37- 14 External Work -38-	8	Ironmongery		
Plastering -30- 12 Glazing -34- 13 Painting -37- 14 External Work -38- Carried to Final Summary N\$	9	Structural Steelwork	K I	I E
12 Glazing 13 Painting 14 External Work Carried to Final Summary N\$	10	Metalwork	-30-	
Painting -3738383838383838-	11	Plastering	-33-	
External Work -38- Section No. 1 Carried to Final Summary N\$	12	Glazing	-34-	
Carried to Final Summary N\$	13	Painting	-37-	
Section No. 1	14	External Work	-38-	
Section No. 1			8.5	
Section No. 1				*
Section No. 1				
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Section No. 1				
Section No. 1				
Section No. 1				10.4
Section No. 1				
Section No. 1		Carried to Final Summary	NIQ	
		Section No. 1	145	

Item No	·	Quantity	Rate	Amount
	SECTION NO. 2			
- 4,	BILL NO. 1			
	ELECTRICAL INSTALLATION			
	CLASSROOMS			
	ELECTRICAL INSTALLATION TO MODULE: CLASS (THREE CLASSROOM BLOCK AND STORE)			
	Refer to attached sheets 1-3 of "SCHEDULE 07: ELECTRICAL INSTALLATION: MODULE CLA 3S"			
1	"SCHEDULE 07" Material Total brought forward from page 3 as Item No: Non Scheduled	Item		
2	"SCHEDULE 07" Labour Total brought forward from page 3 as Item No: Non Scheduled	Item		
			İ	
	5 E	Dec .		
:-				
		1		
				21
E	Section No. 2 Bill No. 1		N\$	
F	Electrical Installation REVISED MODULES (2008)			

	FINAL SUMMARY		Ť	1
Section No		Page No		Amount
1:	Building Works	-39-		
2	Specialist Installations	-40-		
	Sub-total for net building works		N\$	
	Nett Location factor value	Item	144	
	Sub-total for net building works including location factor		N\$	
	Contingencies		ПФ	
	Allow the contingencies to be used as directed by the client's representative to be deducted in whole or in part if not required			
		10%		
	Sub-total for net building works including contingencies		N\$	
	VAT on net building cost (15%)		N\$	
	Carried to Form of Tender		N\$	
R	EVISED MODULES (2008)			
	1	1		

ELECTRICAL WORK OF 3CLAS AT DIVUNDU COMBINED SCHOOL SECTION IV: PRICED ACTIVITY SCHEDULE

Procurement Reference Number:	
Floculement Reference Number:	

The quantities shown below are approximate, and subject to re-measurement for payment purpose.

Item No.	Brief Description of Works	Unit of Measure	Quantity	Unit of Price N\$	Total Price
	ELECTRICAL INSTALLATION FOR MODULE C-CLA3S				NS
1.0	Supply & install flush white epoxy powder coated sheet steel DB-3 (MOD-12) complete as specified but excluding equipment listed below	Lot	1.00		
1.1	40A DP 5kA Isolator	No	1.00	-	
1.2	5A SP 5kA MCB	No			
1.3	10A SP 5kA MCB	No	1.00		
1.4	20A SP 5kA MCB	No	1.00 2.00		
1.5	40A DP 5kA ELR without overload	No	1.00		
1.6	60A SP 5KA MCB	No	1.00		
1.7	Surge Arresters	No		 	
1.8	Blank cover	No	2.00		
1.9	DB Labelling	No	2.00		
2.0	Supply & install 600/1000V PVCAS supply cable drawn into conduits or in ground				
2.1	16mm² x 2c Cu	M	40.00		
2.2	10mm² x4c Cu	M	30.00		
2.3	Cable joints pvc scotch 4 Core 10mm ²	No	1.00		
	Terminate 600/1000V PVCAS cables in DBs, including glands, etc				
2.2	16mm² x 2c Cu	No	2.00		
	Supply & install Bare Copper Earth wire cable drawn into conduits or in ground				
2.3	10mm ²	M	40.00		

3.0	Supply & install heavy gauge PVC conduit, including adapters, glueing, terminations, etc				
3.1	a Moran Street in a 18 (1)				
3.1	ø20mm flush in wall (chasing included), surface in ceiling, cast in concrete	M	200.00		
3.2	a25mm flush in small (1)				1
5.2	ø25mm flush in wall (chasing included) surface in ceiling, cast in concrete	, M	6.00		
4.0	Supply & install Class 9 uPVC sleeves for supply cables to DBs				
4.1	ø50mm flush in wall (chasing included), surface in ceiling, cast in concrete, in ground	M	5.00		
4.2	ø50mm slow bends	No	1.00		
			1.00		_
5.0	Supply & install light switches & socket outlets complete with cover plates & connection to circuit wiring	24			
5.0	Light switches				
5.1	16A flush 1-lever, 1-way	No	4.00		
5.2	Photocell	No	1.00		
		110	1.00		
	Socket outlets				
5.3	16A 3-pin single SSO flush in wall	No	4.00		-
6.0	Supply & install luminaire, including control gear & lamp complete & connect to circuit wiring				
5.1	Type A	No	3.00		
5.2	Туре В	No			
5.3	Type C	No	1.00		
		110	12.00		
.0	Supply & install grade 600/1000V PVC insulated stranded copper wiring drawn into conduits, sleeves & trunking				
.1	2.5mm ²	M	300.00	-	
.2	4mm ²	M	200.00		-
	Carmalia C. 11				
	Supply & install grade 600/1000V PVC insulated stranded copper earth wiring drawn into conduits, sleeves & trunking				
3	2.5mm ²	M	200.00		
0	Supply & install galvanised mild steel conduit outlet boxes, draw boxes & cover plates as required				
1	020 0 1 · 44 / 4 · · ·	No	16.00		

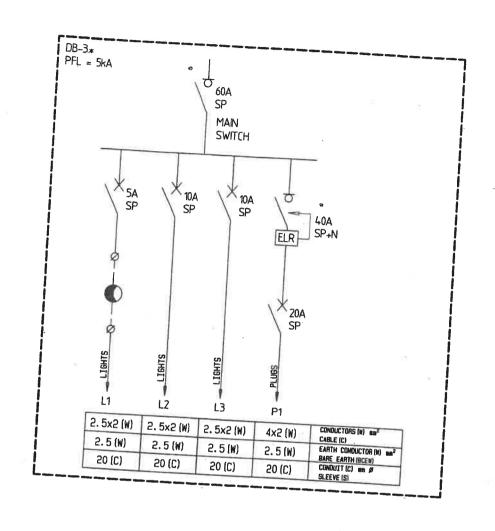
10.4	Terminal box	No	2.00	
10.4	Earth terminal box complete with earth bar and clearly labelled "Earth Terminal"			
10.5	Johnn hisulated earth	No	8.00	
10.3	Supply and install 50mm ² insulated earth from earth test point to roof earth point and to earth spike 50mm ² insulated earth	27		
10.2	Connections 50mm ² insulated earth wire	No	6.00	
10.2	Connect 50mm ² earth wire to roof, stud in earth test point box and earth spike, including lugs and fixing hardware			
10.1	1.5m Copper earth spikes	No	2.00	
10.0	Supply and install 1.5m copper earth spikes to detail, including excavation, backfilling, compaction and connection to BCEW			
	in earth	M	112.00	
9.0	LV cable trenches 600 mm wide x 500 mm deep including backfilling & compaction In earth			
8.3	included), surface in ceiling, cast in concrete	No	4:00	
8.2	100x50x50 flush in wall (chasing included), surface in ceiling, cast in concrete	No	4.00	

Subtotal:
Contingencies 10%
VAT@15%
Total

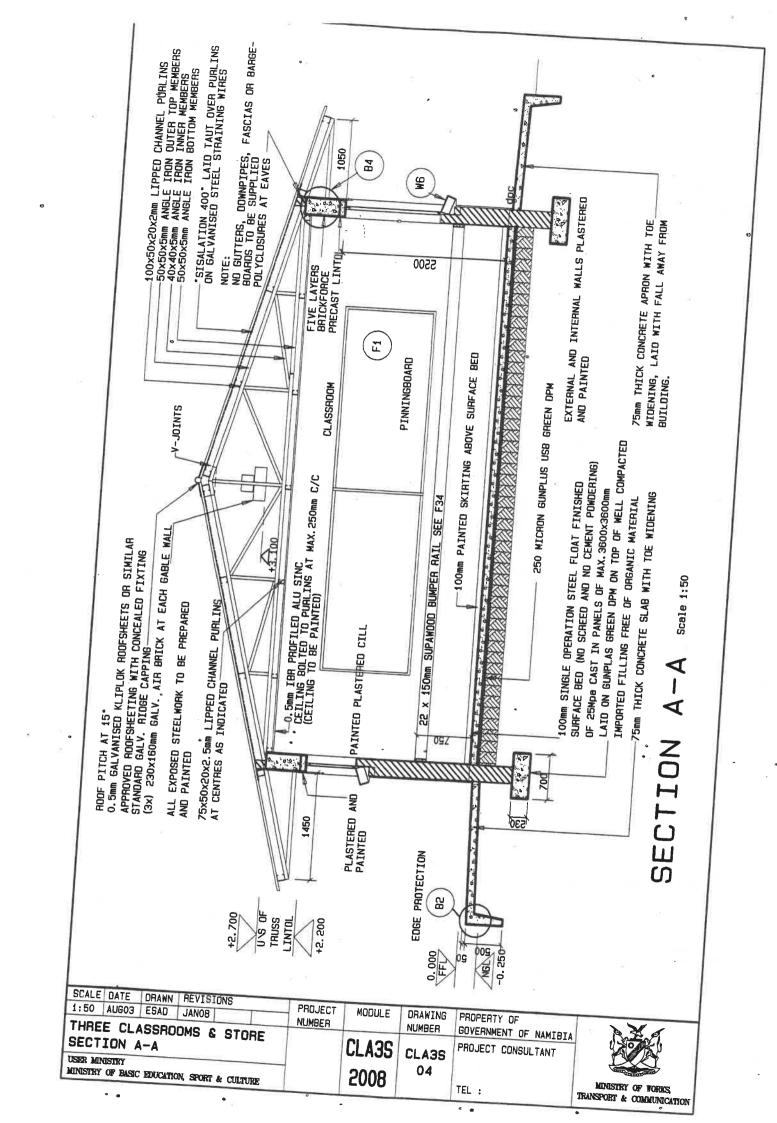
THREE CLASSROOMS & STORE



MINISTRY OF WORKS,
TRANSPORT & COMMUNICATION



SCALE DATE DRAWN REVISIONS N. T. S. AUGO3 ESAD THREE CLASSINGUE	PROJECT NUMBER	MODULE	DRAWING	PROPERTY OF	
THREE CLASSROOMS & STORE SINGLE LINE DIAGRAM USER MUNISTRY		CLA3S	CLA3S	GOVERNMENT OF NAMIBIA PROJECT CONSULTANT	
MINISTRY OF BASIC EDUCATION, SPORT & CULTURE		2008	09	TEL :	MINISTRY OF WORKS TRANSPORT & COMMUNICATION



LIST OF DETAILS

CONSTRUCTION B 1
DETAILS: B 2
B 3
B 4
B 5
B 8
B19
B33
B41

DOORS: D 1 D 9 D12

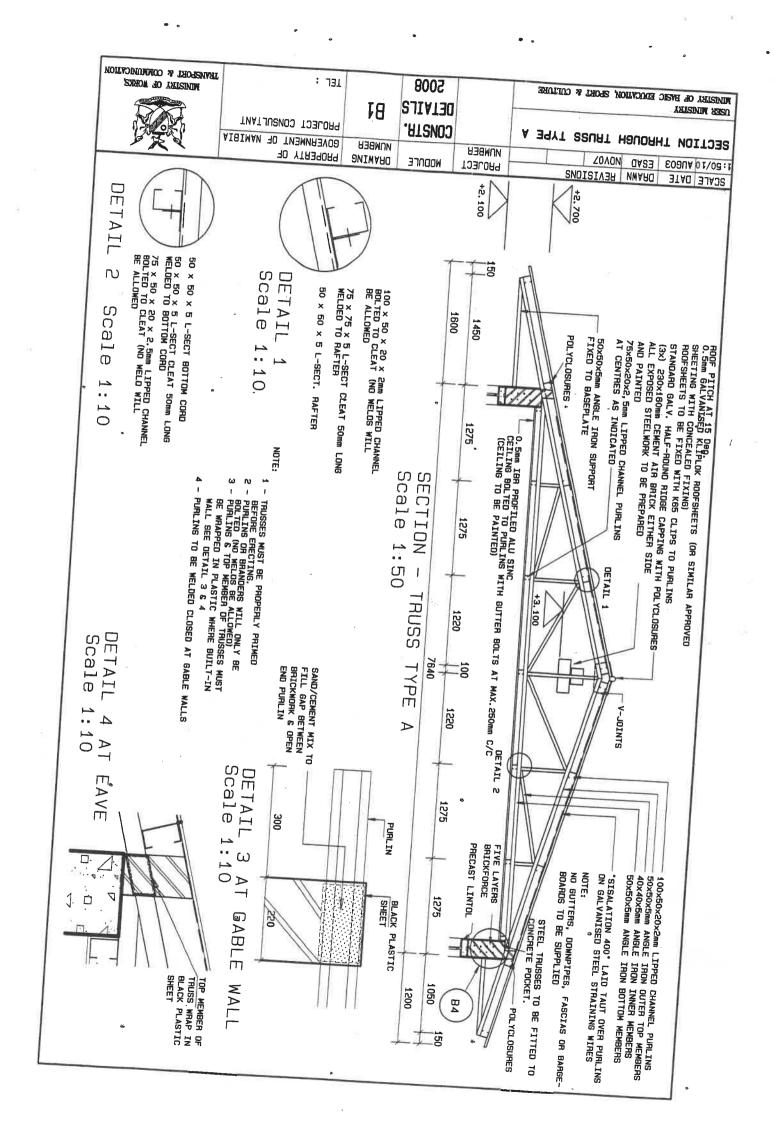
WINDOWS: W1 W2 W3

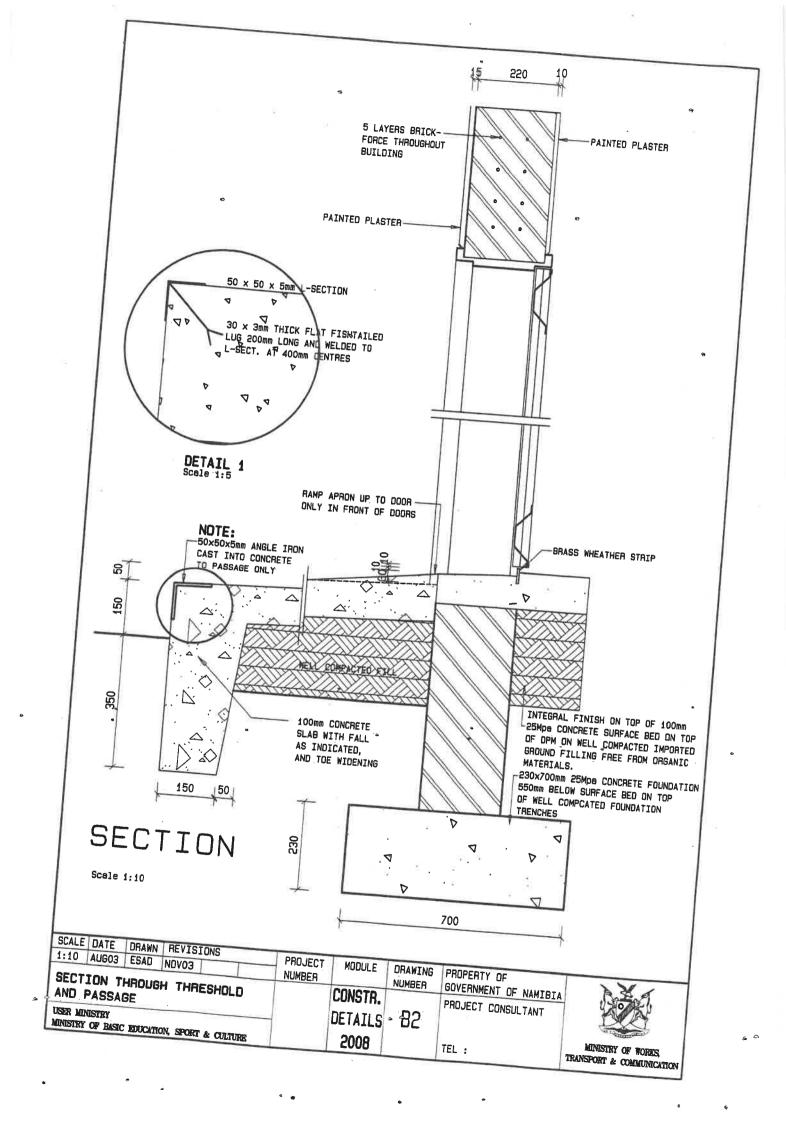
ELECTRICAL: E01

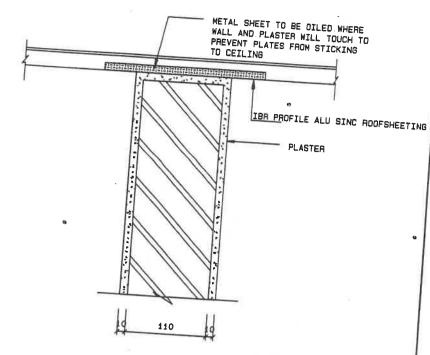
GENERAL F 1
FURNITURE: F 3
F 4
F 6
F10

SCALE DATE DRAWN REVISIONS - AUGO3 ESAD THREE CLASSRODMS & STORE LIST OF DETAILS	PROJECT NUMBER	MODULE	NUMBER	PROPERTY OF GOVERNMENT OF NAMIBIA	I
USER MINISTRY MINISTRY OF BASIC EDUCATION, SPORT & CULTURE		CLA3S 2008	CLA3S 10	PROJECT CONSULTANT	T

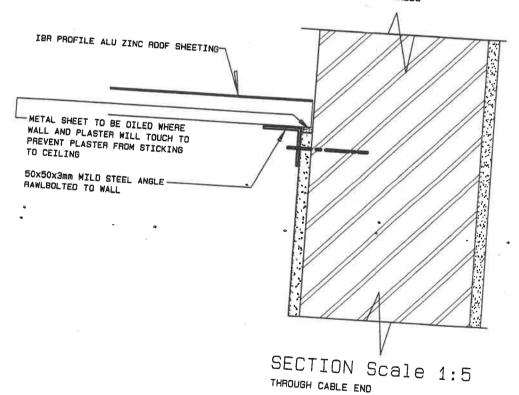








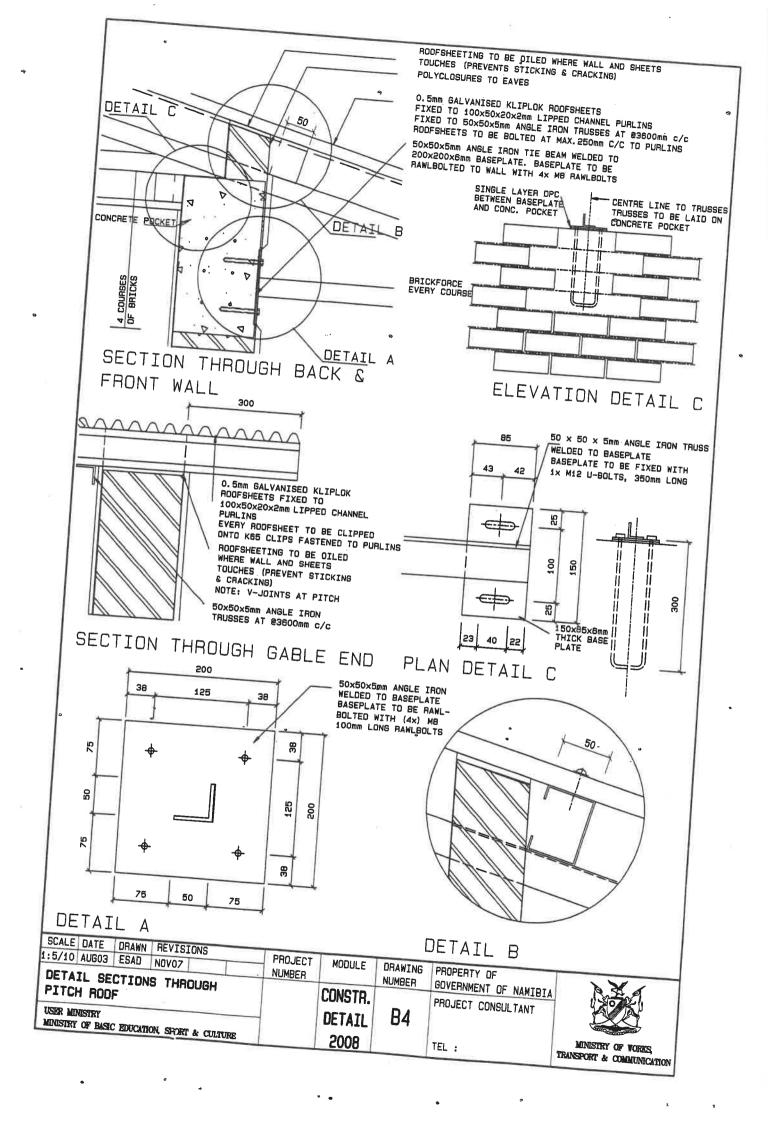
SECTION Scale 1:5

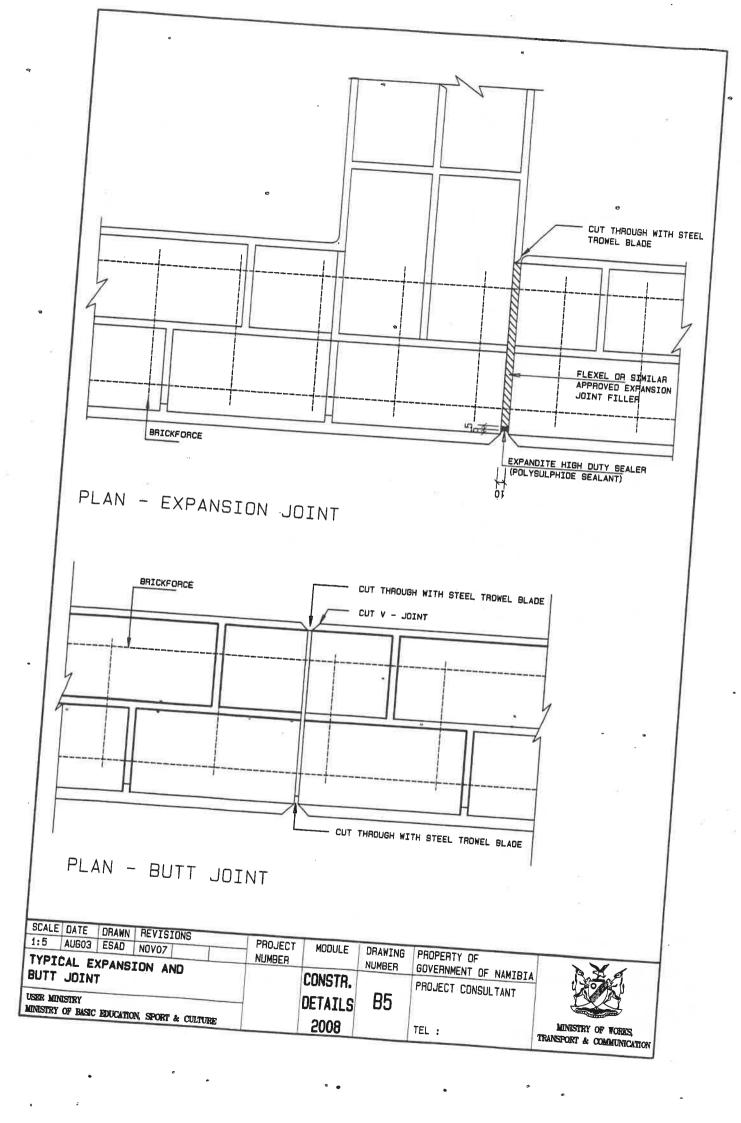


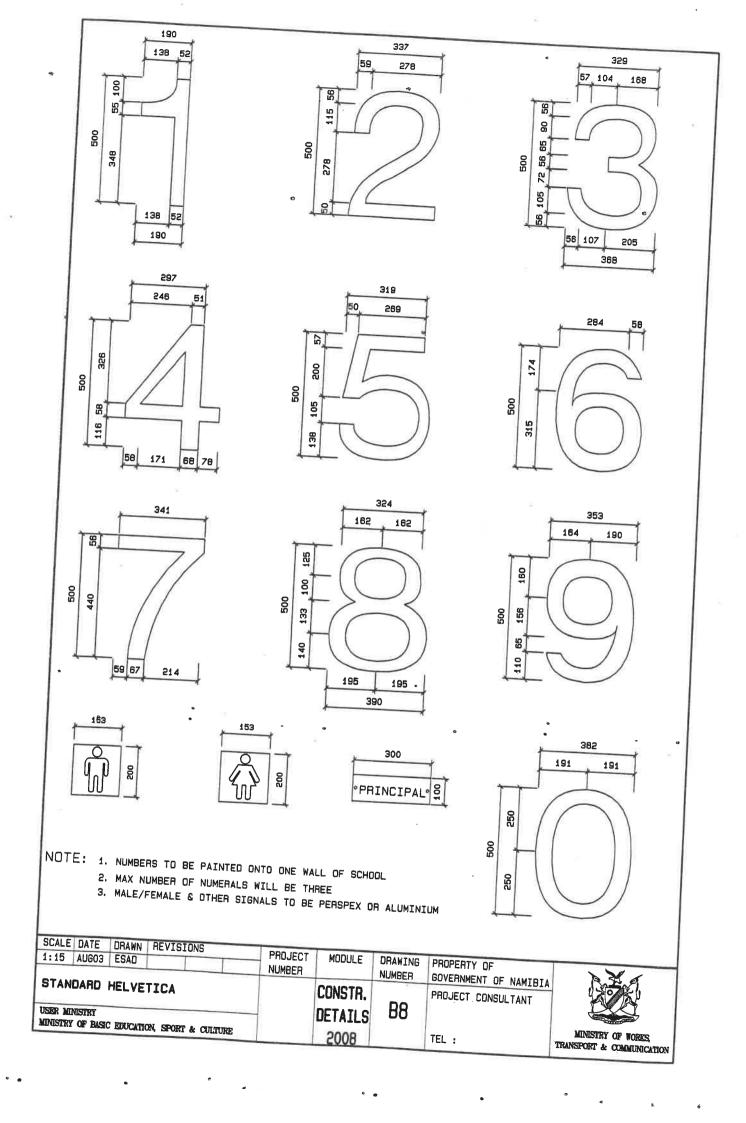
	MODULE	DRAWING	PROPERTY OF
NUMBER	CONSTR.	NUMBER	GOVERNMENT OF NAMIBIA PROJECT CONSULTANT
	DETAILS 2008	B3	TEL :
	NUMBER	CONSTR. DETAILS	CONSTR. DETAILS B3

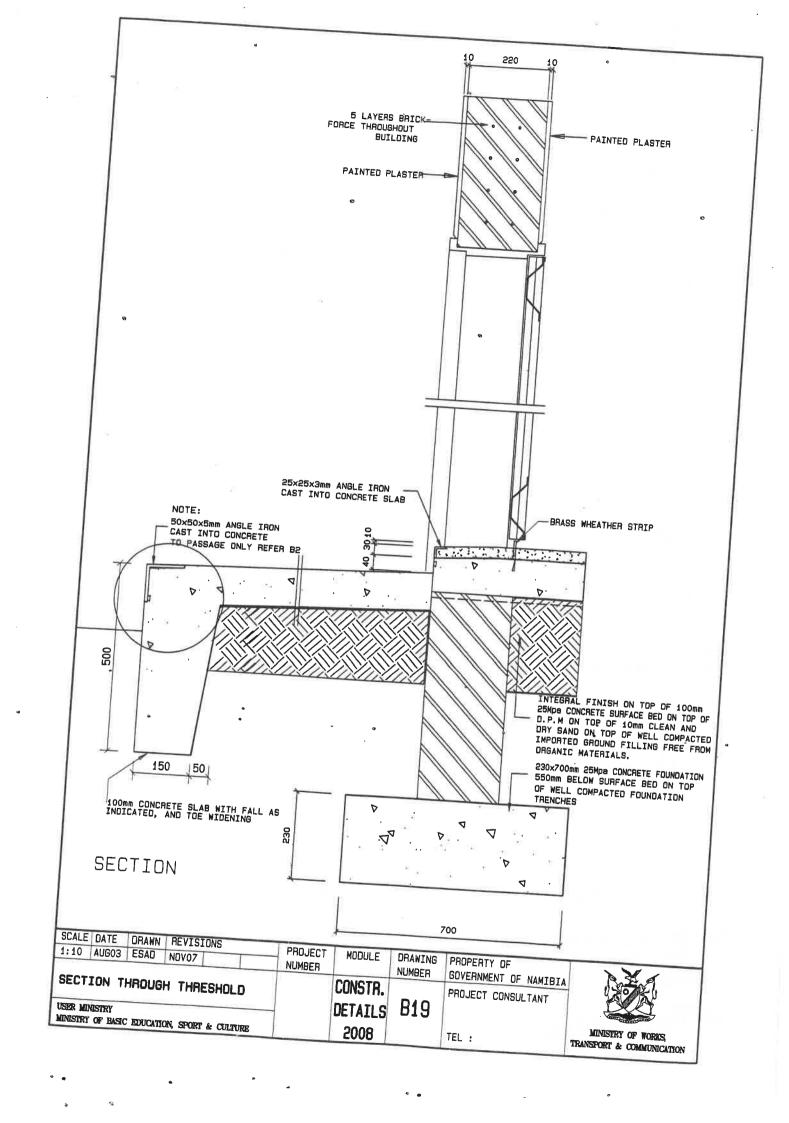


MINISTRY OF WORKS,
TRANSPORT & COMMUNICATION









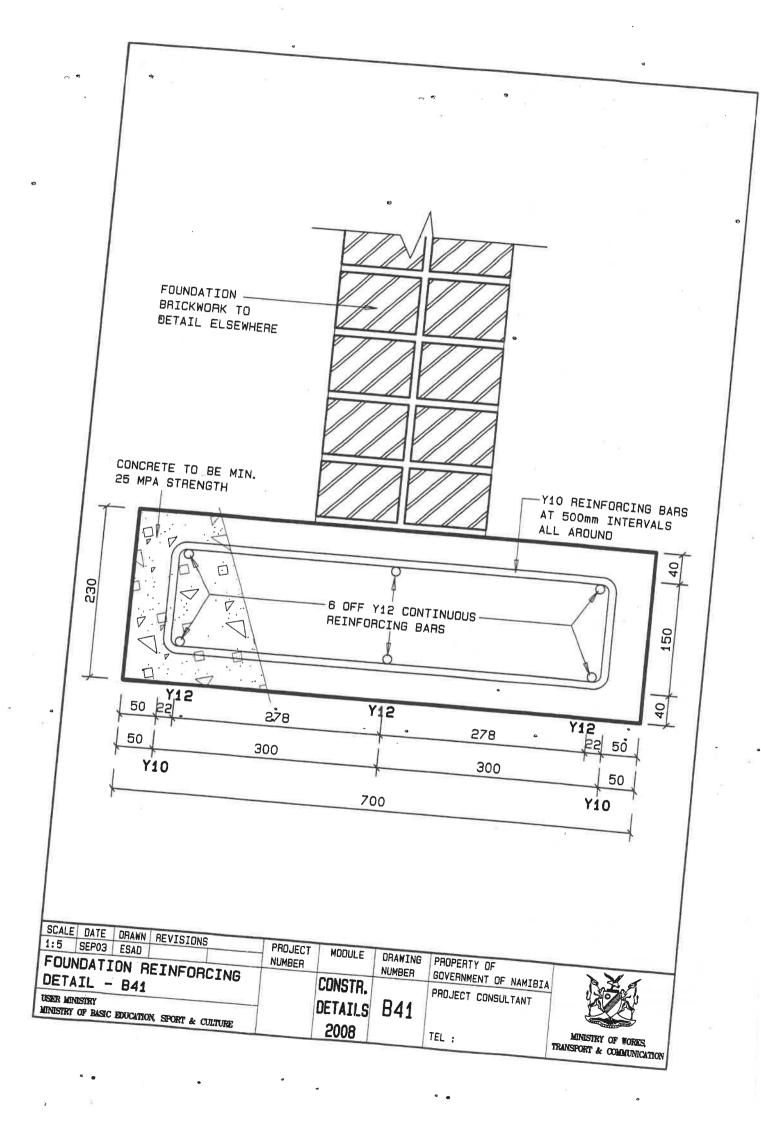
GENERAL PAINT SPECIFICATION

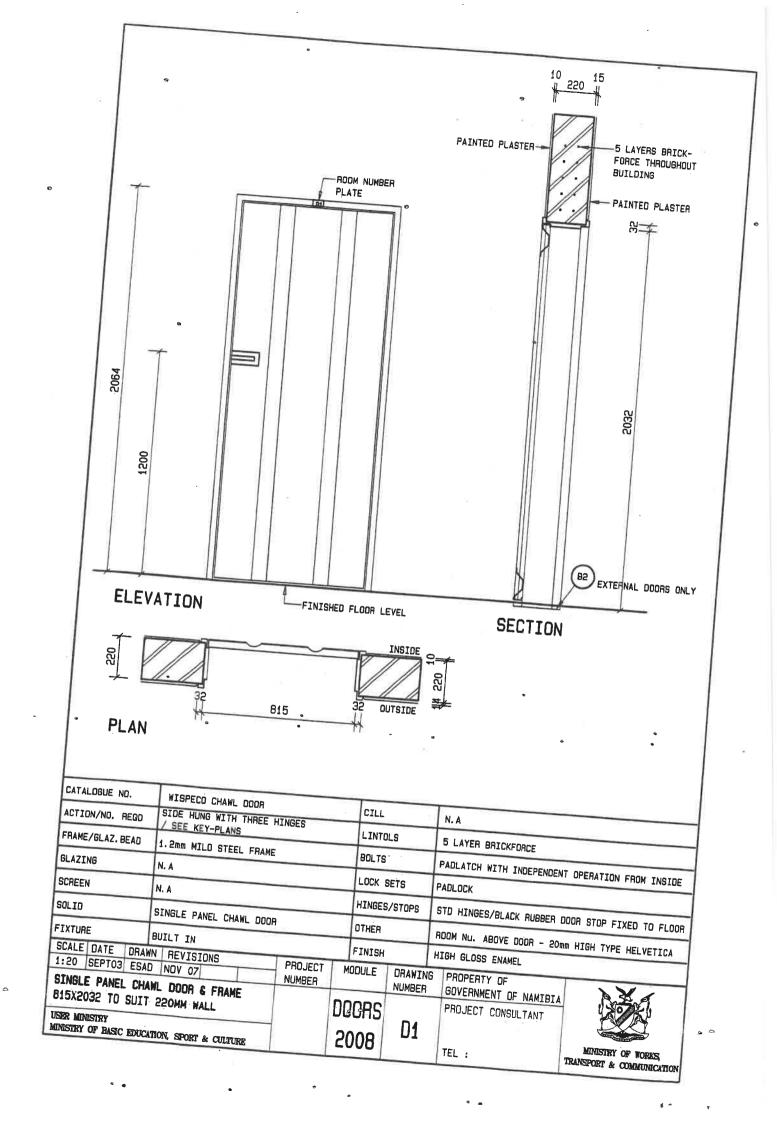
- 1. PAINT SPECIFICATION FOR INTERNAL PLASTERED WALLS, PRIMER & 2 COATS DOUBLE VELVET PAINT TO ALL INTERNAL . WALLS OF CLASS ROOMS, OFFICES, STORES, CORRIDOR, BEDROOMS, ETC. THE PAINT SPECIFICATION MUST COMPLY WITH SABS REQUIREMENTS AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATION.

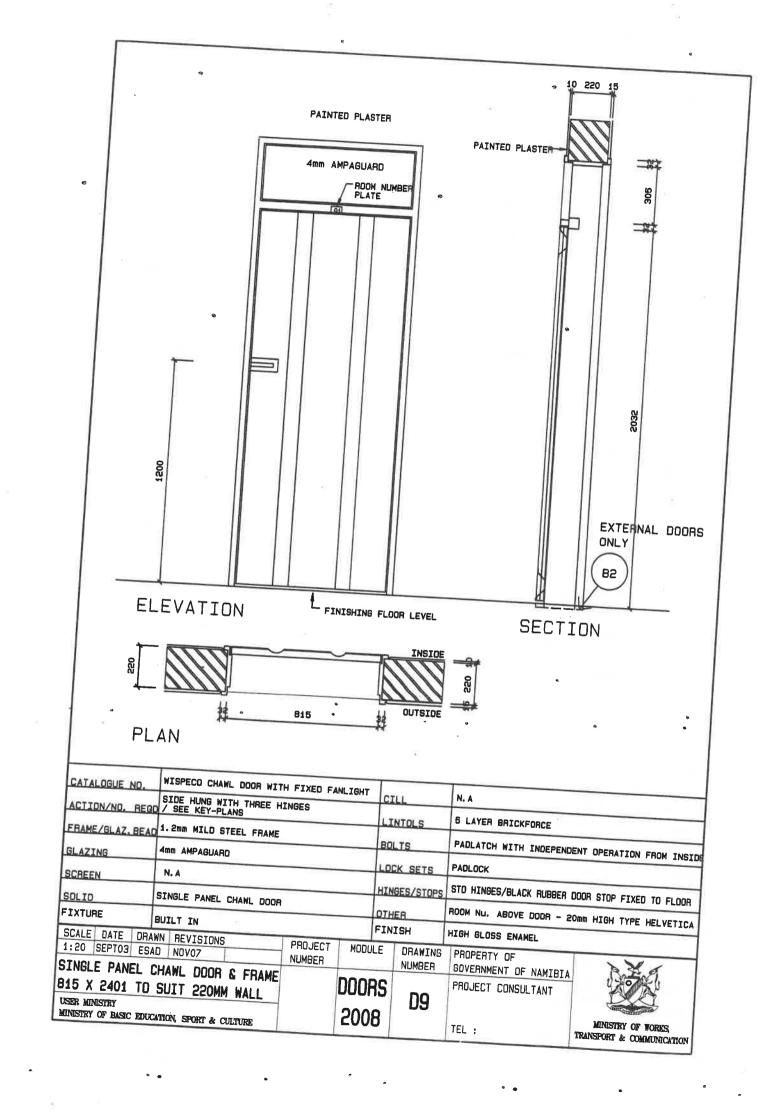
 ALL SHOWERS TO BE TILED TO CEILING HEIGHT WITH STANDARD . 200×200 WHITE CERAMIC TILES.
- 2. WHERE SKIRTING SPECIFIED PAINTED ON PLASTERED WALL, PAINT MUST BE HIGH GLOSS ENAMEL.
- 3. ALL STEEL DOOR FRAME, CHAWL DOORLEAF AND WINDOW FRAMES MUST BE FACTORY PRIMED AND FINISHED WITH UNDER COAT AND TWO COATS HIGH GLOSS ENAMEL PAINT.
- 4. PAINT TO ALUZINC CEILING, ACRYLIC PVA WHITE, 2 COATS (PRIOR TO PAINT, CEILING MUST BE CLEANED WITH GALVANISED ROOF CLEANER)
- 5. ALL TRUSSES AND PURLINS AND EXPOSED STEELWORK MUST BE PRIMED WITH METAL PRIMER AND FINISHED WITH TWO COATS HIGH GLOSS ENAMEL.
- 6. EXTERNAL PAINT TO CONSIST OF PRIMER AND TWO COATS OF EXTERIOR QUALITY PVA AND APPLIED ACCORDING TO MANUFACTURER'S INSTRUCTION. ALL COLOURS MUST BE APPROVED BY PROJECT MANAGER OR REPRESENTATIVE OF THE CLIENT.

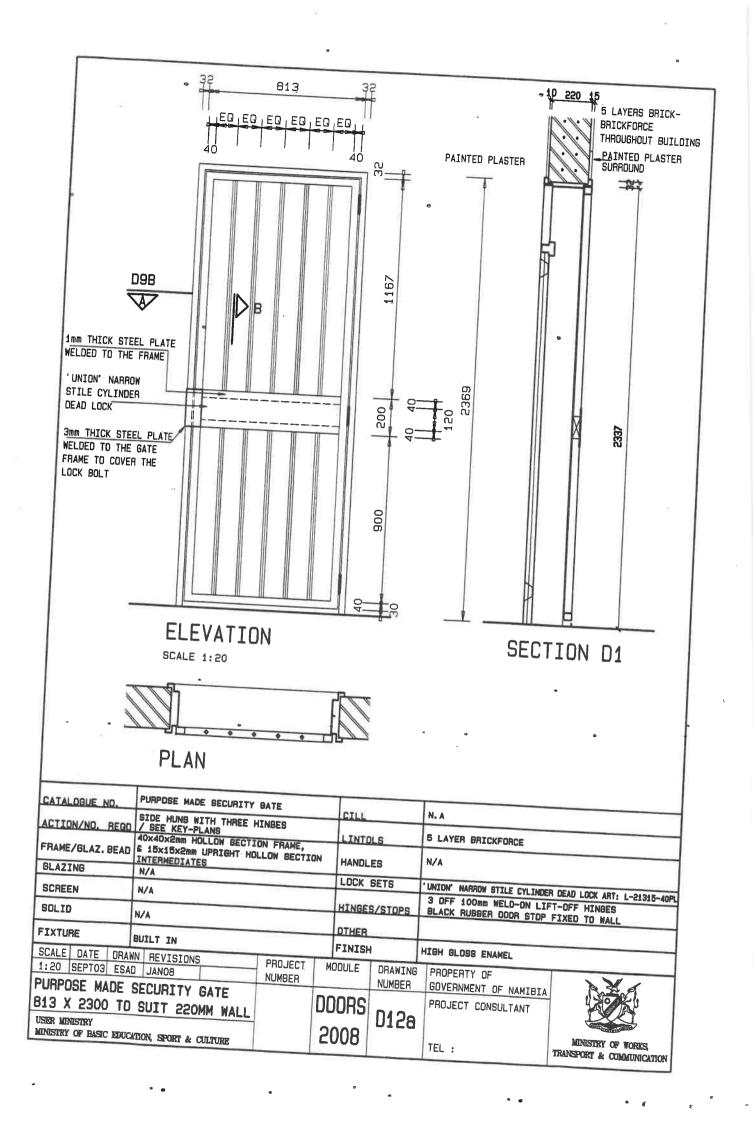
SCALE DATE DRAWN REVISIONS N/A SEPT03 ESAD NOV07	PROJECT NUMBER	MODULE	DRAWING NUMBER	PROPERTY OF GOVERNMENT OF NAMIBIA	7
PAINT SPECIFICATION USER MINISTRY		CONSTR. DETAILS	B33	PROJECT CONSULTANT	
MINISTRY OF BASIC EDUCATION, SPORT & CULTURE		2008		TEL :	MINISTRY TRANSPORT &

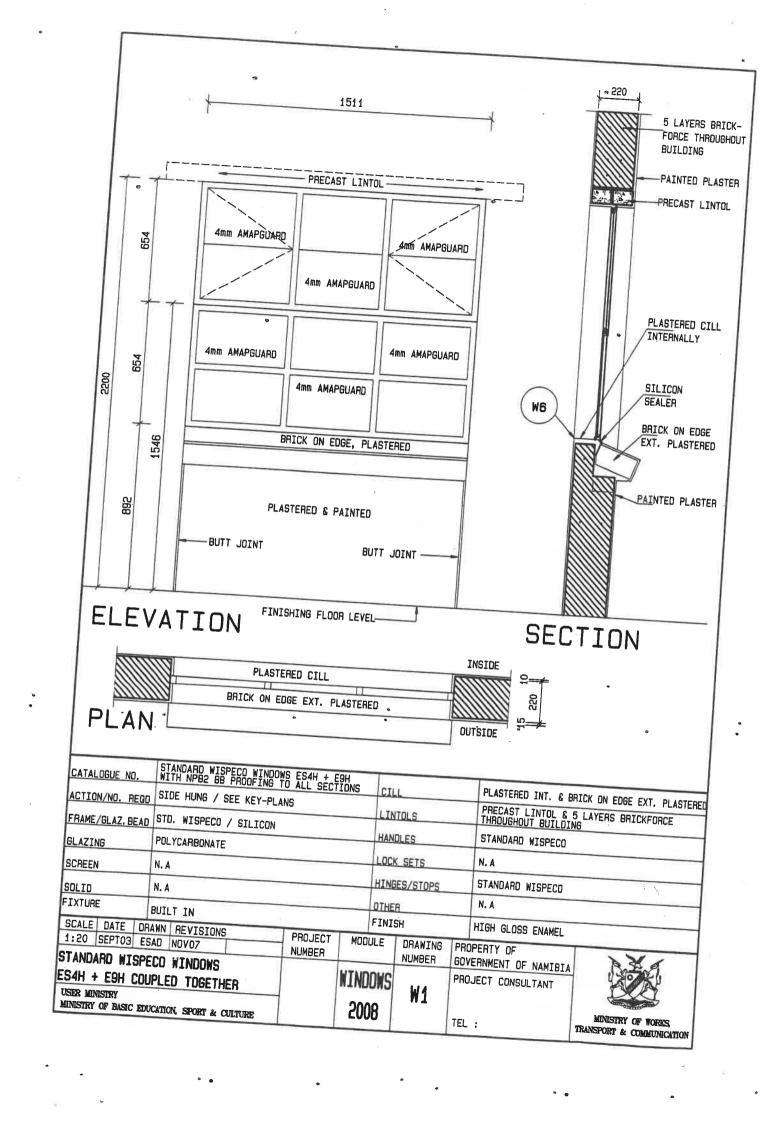


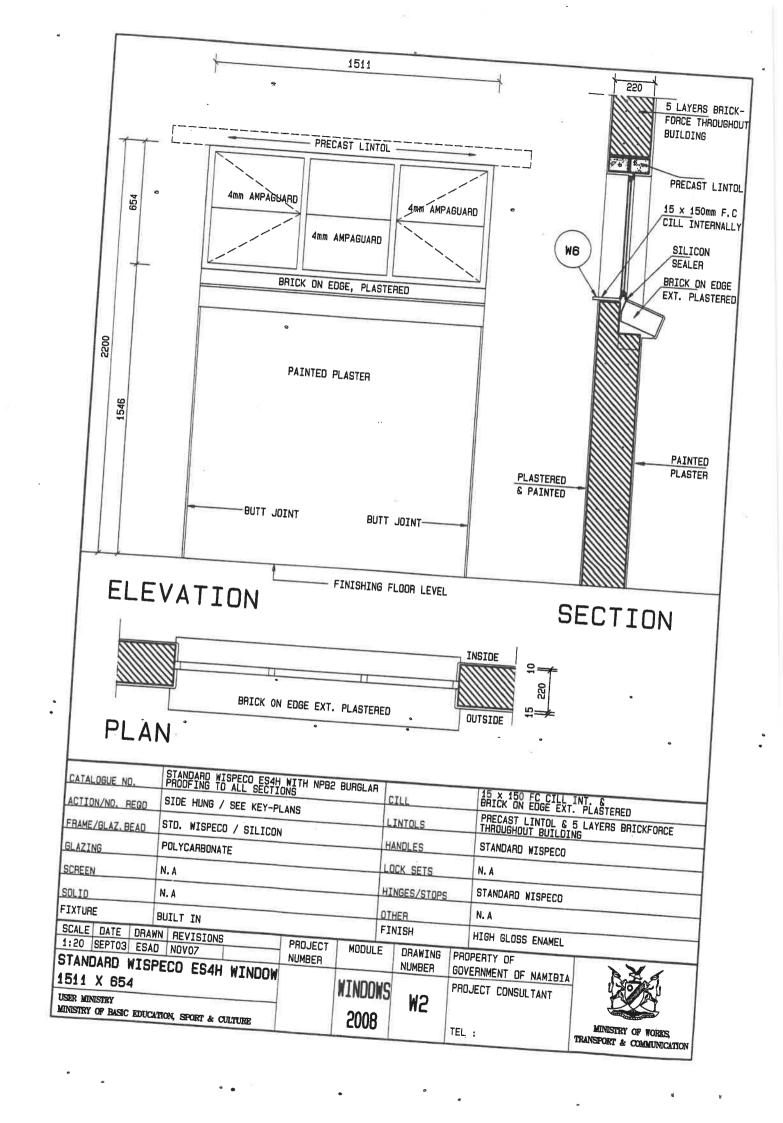


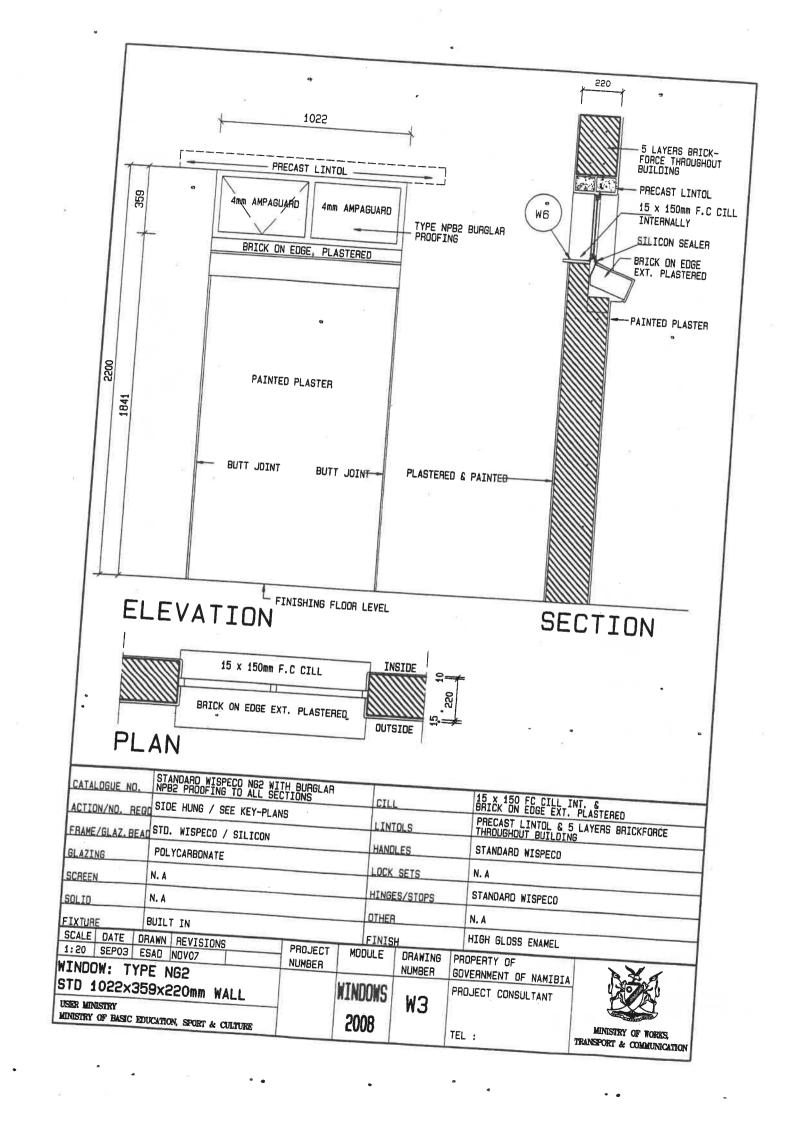












-	DR	AMINO	-			
10	BULKHEAD LUMINATHE WIT	TURITURE	SYMBOL	S		
	SIMILAH APPROVED TO L	ASCON B10-2PLQ	ND 2×PL9 COOL WHITE LAM	PS FALIAL OD		
(8	AND 1×58W COOL WHITE L	JBE FLUORESCENT LUMI -AMP EQUAL OR SIMILA	NAIRE WITH TELESCOPIC L	AMPHOLDERS		
	OPEN CHANNEL DOUBLE TO AND 2X58W COOL WHITE L		o chocon Ri	-15900		
0	MOTORISED SIREN, 230 V	WITH AN AUDIBLE DIS	TANCE DE 1000-	1-25855		
(E)	PILOT LIGHT WITH RED LE	NS AND 230V 15W PIG	4V AND			
8	16A SINGLE LEVER ONE WA					
€ 2	L 16A TWO LEVER ONE WAY LI	(GHT SWITCH WILLE	E COVER PLATE, 1200mm	AFFL		
€. 21	16A SINGLE LEVER TWO WAY	TOUR ON WHILE C	OVER PLATE, 1200mm AFFL			
₹ 2L:	16A SINGLE LEVER TWO WAY	LIGHT SWITCH, WHITE	COVER PLATE, 1200mm A	FFL		
₽ BP	THE COVER PLATE, 1200mm AFFI					
	16A SINGLE LEVER BELL PUSH LIGHT SWITCH, WHITE COVER PLATE, 1200mm AFFL ELECTRICAL DISTRIBUTION BOARD, FLUSH MOUNTED ARCHITRAVE TYPE WHERE INSTALLED SHALL BE PADLOCKABLE, COLOUR WHITE					
	SHALL BE PADLOCKABLE, COL	WEATHERPROOF TYPE WH OUR WHITE	ARCHITRAVE TYPE WHERE ERE INSTALLED OUTDOORS	INSTALLED		
	DATEIGHT SWITCH, 10A, MOUN	NTED INSIDE EMPTY B10	D BULKHEAD LIGHT FITTIN	G		
DB-B	CIRCUIT A OF DISTRIBUTION	BOARD B				
_	16A SINGLE SWITCHED SOCKET OTHERWISE INDICATED, COLOUR	OUTLET 300mm AFFL (UNDERSIDE) EXCEPT WHERE			
<u>#</u>	OTHERWISE INDICATED, COLOUR	OUTLET 300mm AFFL (L	JNDERSIDE) EXCEPT WHERE			
<u>۵</u>	LOW VOLTAGE DC TERMINALS WI WHERE OTHERWISE INDICATED, (TH 5 A 2.5 KA MCCB 3	OOMM AFFL (UNDERSIDE)	TVOCAT		
· ·	JUA IIIIIRI E DOLE			EXCEPT		
• 2 1	EUA IIIIIRI E DOLE		TOUR SHIP TO			
	VA UUURI E DOLE GODD		T BE SEALED WITH SEALA	HOLES NT		
<u>+</u>	EXOLF WHEHE OTHERWISE TAIDTOATED 1200mm ACE (MADE)					
- II	INSULATED COPPER CONDUCTOR BOLTED TO ROOF AND CLAMPED TO MGL, 50mm					
	TO SON WITH	MHITE COVER PLATE				
100	0x50x50mm OUTLET BOX FOR PRE	-PAYMENT METER				
PVC	0x100x50mm OUTLET BOX WITH W C CONDUIT TO ROOF SPACE FOR AWN REVISIONS	HITE COVER PLATE 300	MM AFFI (IMPER-			
DATE DR	AWN REVISIONS PROJE	DT Was		20mmØ		
F2	LEGEND FOR		1 CITT UP			
MODILLE	S - SHEET 1		SOUTH OF NAMIBI	POZNE		
TMISAMA		E E O1	PROJECT CONSULTANT	BOA		
I OF BASIC POUR	CATION, SPORT & CULTURE	2008	II.	MINISTRY OF WORKS		

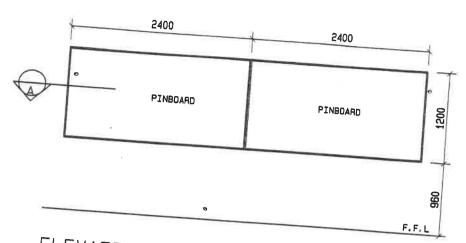
D8-D0	100 VA, 230V AC TO 12V DC SWITCH MODE RECTIFIER POWER SUPPLY WITH LESS THAN SURFACE MOUNTED ENCLOSURE, COLOUR BEIGE 25mmØ PVC CONDUIT
• • •	32mmø PVC CONDUIT
	50mmø PVC°SLEEVE
	TELEPHONE DISTRIBUTION BOARD 510x410x110mm FLUSH INSTALLED, COLOUR WHITE
A -	100x100x50mm OTLET BOX WITH WHITE COVER PLATE 300mm AFFL (UNDERSIDE) OR AS
	GENERAL NOTES

GENERAL NOTES:

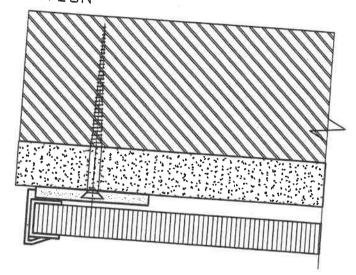
- 1. THE COMPLETE INSTALLATION SHALL BE FLUSH MOUNTED IN ACCORDANCE WITH THE LATEST "SABS 0142": CODE OF PRACTICE FOR THE WIRING OF PREMISES.
- 2. ALL CONDUITS IN CEILING VOIDS SHALL BE BLACK MILD STEEL. 3. CONDUITS IN FLOORS TO BE PVC.
- 4. CONDUIT FROM FLOOR TO ANY DUTLET POINT SHALL BE PVC AND FROM ANY DUTLET
- 5. NO DRAW BOXES SHALL BE INSTALLED EXCEPT IF APPROVED BY THE ARCHITECT OR 6. ALL SWITCH GEAR TO BE RATED 5 KA.
- 7. LIGHT FITTINGS TO BE APPROVED BY ARCHITECT OR CLIENT PRIOR TO ORDERING.
- 8. METAL ROOFS TO BE EARTHED WITH 50mm sq PVC INSULATED COPPER EARTHWIRE IN 25mm CONDUIT BETWEEN CEILING VOID AND 300mm BELOW GROUND LEVEL AND WITH 1.5m LONG COPPER EARTH ELECTRODES AT THE CENTRE OF TWO SHORT SIDES OF THE EXTERNAL BUILDING WALLS. THE JOINT AT THE EARTH SPIKE TO BE PROPERLY PROTECTED AGAINST CORROSION.
- 9. ALL OUTDOOR LUMINAIRES AND ISOLATORS SHALL BE SEALED WHERE CONDUCTORS ENTER AND EXIT THE ENCLOSURES TO PREVENT THE INGRESS OF INSECTS AND WATER.
- 10. ALL ITEMS TO BEAR THE SABS MARK IF AN SABS MARK EXISTS FOR THE ITEM

SCALE DATE DRAWN REVISIONS N. T. S. JULO3 ESAD ELECTRICAL LEGEND FOR ALL MODULES - SHEET 2 USER MINISTRY MINISTRY OF BASIC EDUCATION, SPORT & CULTURE	PROJECT NUMBER	E 2008	NUMBER	PROPERTY OF GOVERNMENT OF NAMIBIA PROJECT CONSULTANT
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ELEVATION



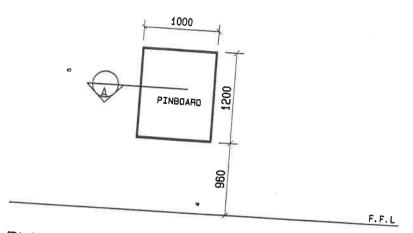
PLAN Scale 1:1

NOTE:

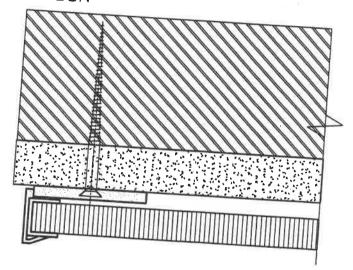
- 1. 2 DFF VITREX PINBDARD MODEL 2300 CODE: '2309' WITH ALUMINIUM FRAME PLUGGED AND SCREWED TO WALL WITH 38mm STEEL COUNTERSUNK SCREWS WHERE APPLICABLE
- 2. PINNING SURFACE STANDARD COLOUR 'MISTY' (LIGHT GREY)

PO3 ESAD JANO8	PROJECT NUMBER	MODULE	DRAWING	PROPERTY OF	
ARDS (2400×1200==)			NUMBER	GOVERNMENT OF NAMIBIA	8 6
W TOOKIEOUMM)	1	FIXTURES	F1	PROJECT CONSULTANT	120
BASIC EDUCATION, SPORT & CULTURE		2008	F1		
BASIC EDUCATION, SPORT & CULTURE		2008	, 1	TEL :	MII TRANSPO





ELEVATION



PLAN Scale 1:1

NOTE:

- 1. 1 OFF VITREX PINBOARD MODEL 2300 CODE: '2315' WITH ALUMINIUM FRAME PLUGGED AND SCREWED TO WALL WITH 38mm STEEL COUNTERSUNK SCREWS WHERE APPLICABLE
- 2. PINNING SURFACE STANDARD COLDUR 'MISTY' (LIGHT GREY)

1:50 SEP03 ESAD JANO8	PROJECT NUMBER	MODULE	DRAWING NUMBER	T. HOLEHALL DE	
PINBOARD (1000×1200mm)		FIXTURES		PROJECT CONSULTANT	
USER MINISTRY MINISTRY OF BASIC EDUCATION, SPORT & CULTURE		2008	F3		MINIST



COMMUNICATION

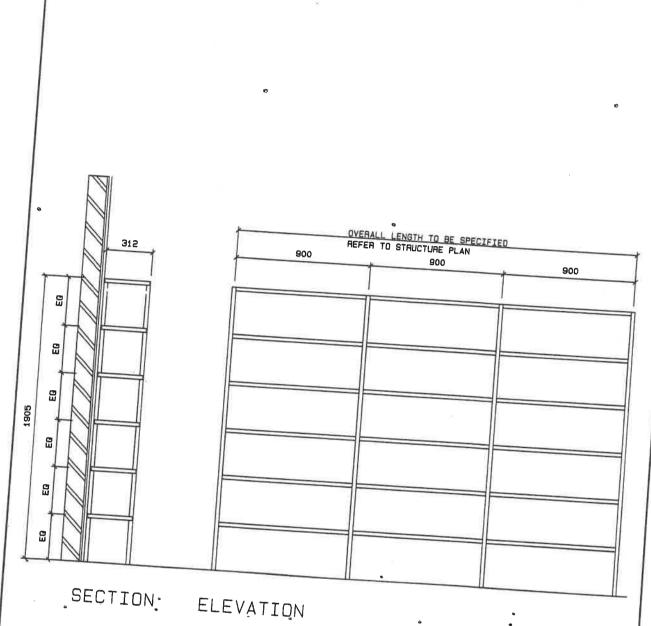
		•		
		2700	6	
		© Chalkboard		1140
	a: **			980
		FINISHING FLOOR LEVEL		
EL	EVATION	•		+

NOTE:

NOTE:
VITREOUS ENAMELLED CHALKBOARD MAGNETIC STEEL SURFACE, NON REFLECTIVE TO
COMPLY WITH SABS. SPECIFICATION CKS - 36 - 1980 SUPPLIED COMPLETE WITH
ALUMINIUM CHALK RAIL AND MOUNTED TO WALL WITH STD. FIXING BRACKETS.

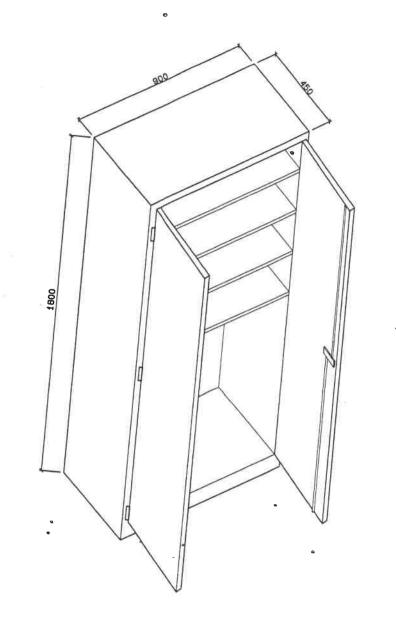
DANOB	PROJECT NUMBER	MODULE	DRAWING	PROPERTY OF	
CHALKBOARD (2700 x 1440)		FIXTURES	NUMBER F4	PROJECT CONSULTANT	
MINISTRY OF BASIC EDUCATION, SPORT & CULTURE		2008	1 4	TEL :	MINISTRY TRANSPORT &





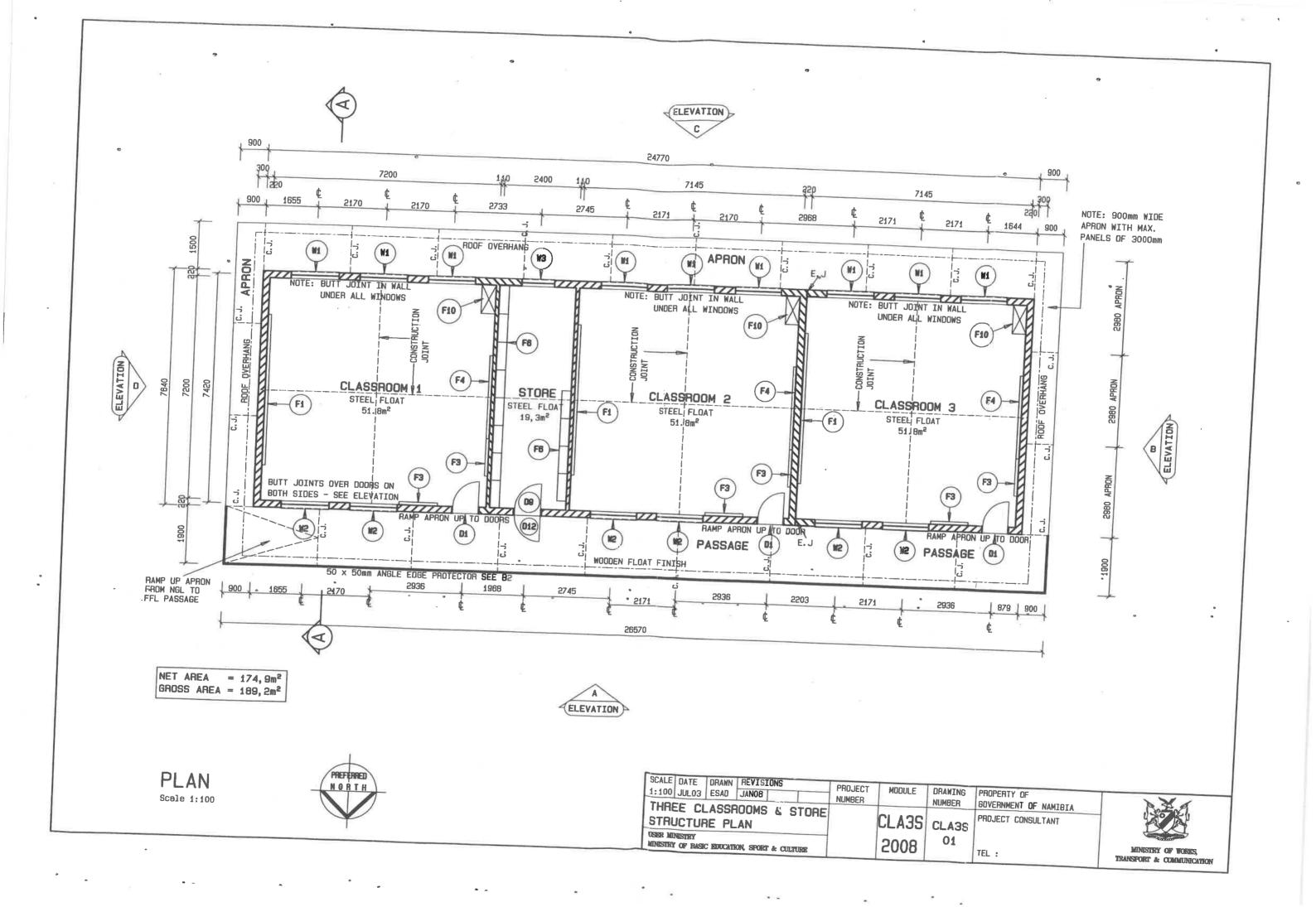
NOTE: 1. SHELVING TO BE OF APPROVED INDUSTRIAL TYPE.
2. SIDES & BACK TO BE CROSS BRACED AS REQUIRED.
3. SCREWS & NUTS TO BE SUPPLIED COMPLETE WITH SHELVES

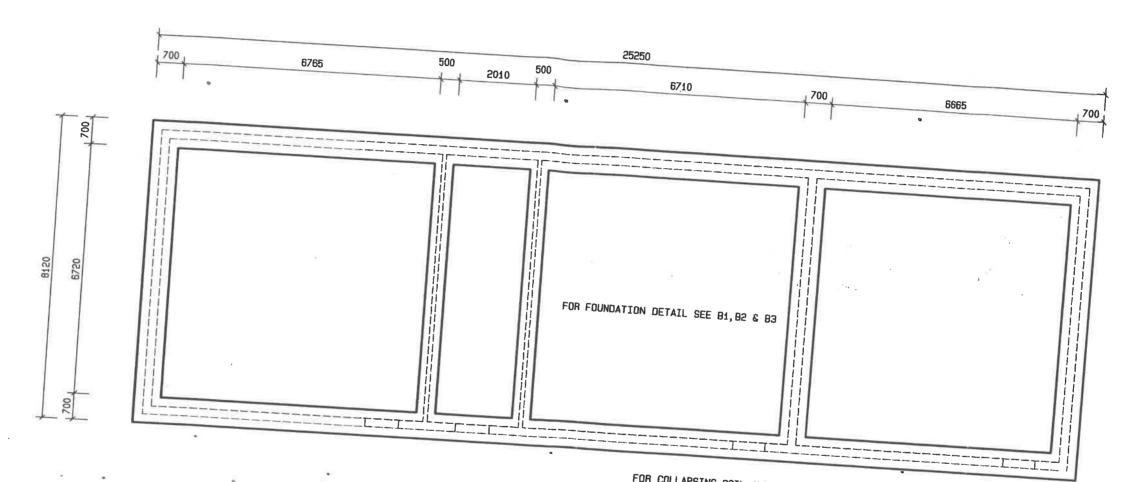
1:25 SEP03 ESAD JANO8 STD. MKU INDUSTRIAL SHELVING	PROJECT NUMBER	MODULE	DRAWING NUMBER	PROPERTY OF GOVERNMENT OF NAMIBIA	b V
USER MINISTRY		FIXTURES		PROJECT CONSULTANT	
MINISTRY OF BASIC EDUCATION, SPORT & CULTURE		2008		TEL :	MINISTRY OF WORKS, TRANSPORT & COMMUNICATION



NOTE: 1. STANDARD STEEL TEACHERS CUPBOARD 900x450x1800mm ART NO. 5060 1. STANDARD STEEL TEACHERS CUPBDARD SOUX40UX18DUMM ART NO. SOBO WITH 4 ADJUSTABLE SHELVES, EPOXY POWDER COATED 2. CUPBDARD TO BE FIXED TO WALL WITH (4X) 6x4 RAWL COACH SCREWS

SCALE DATE DRAWN REVISIONS			""" COAC	1 SCREWS
TEACHERS STEEL CURRENT NUMBER	MODULE	DRAWING		
(FIXED) *** MINISTRY *** PASIC EDUCATION, SPORT & CULTURE	FIXTURES 2008	HOMBEH	GOVERNMENT OF NAMIBIA PROJECT CONSULTANT	
	E000		TEL :	MINISTRY OF WORKS, TRANSPORT & COMMUNICATION





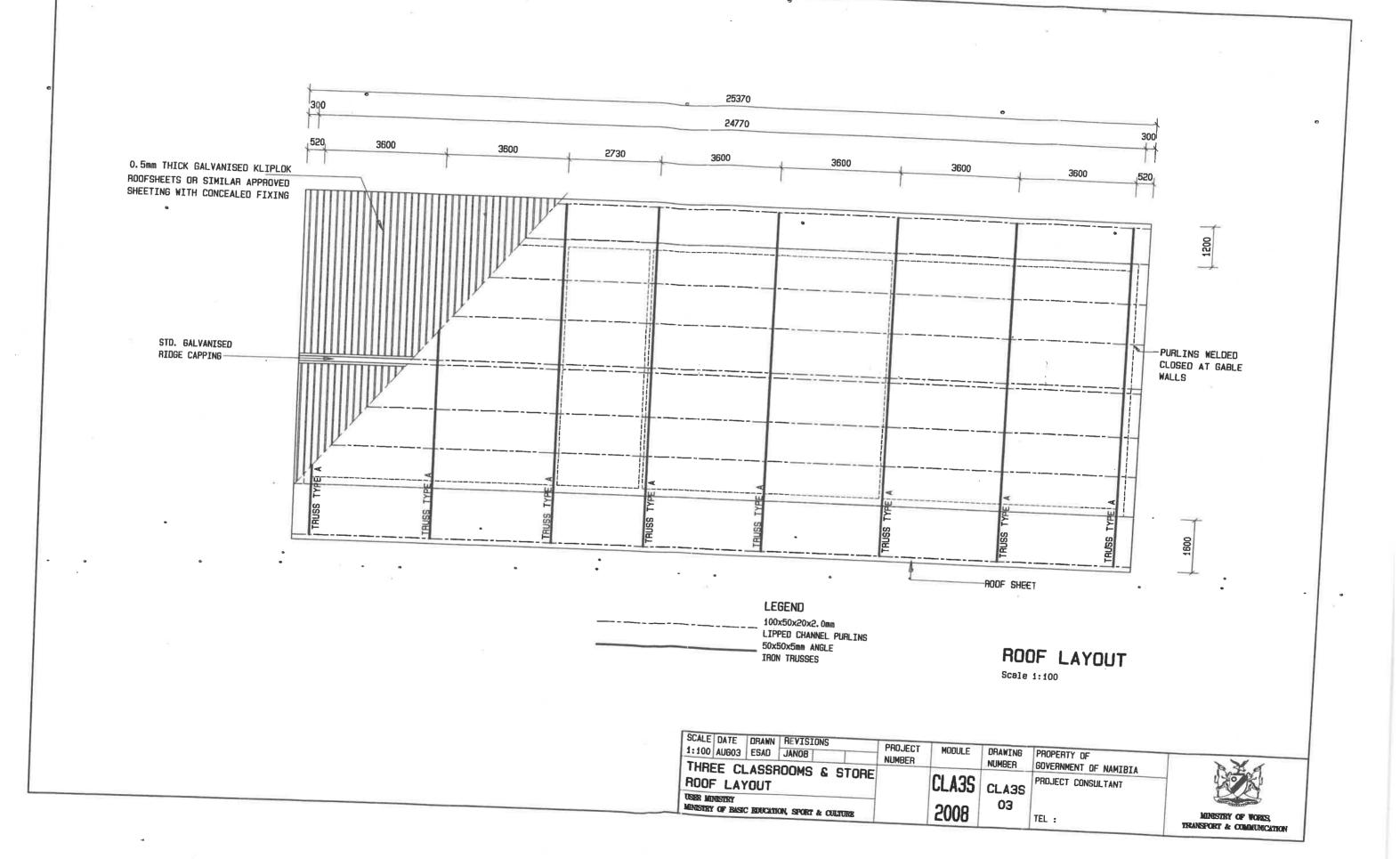
FOR COLLAPSING SOIL AND CLAY CONDITIONS REFER TO DETAIL B 41

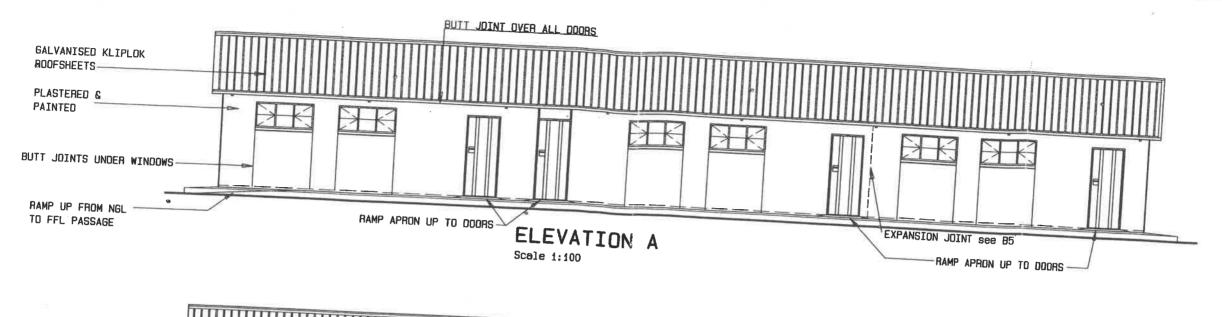
FOUNDATION PLAN

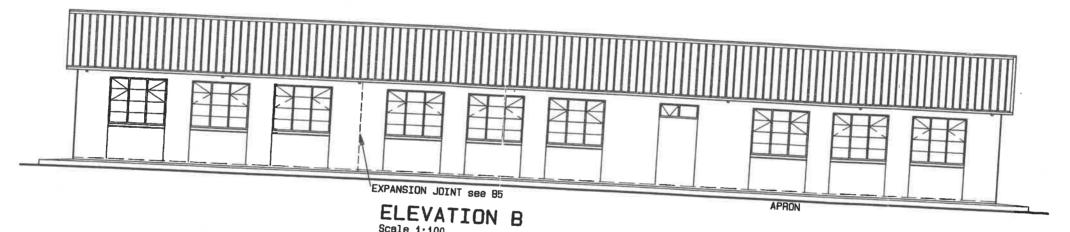
Scale 1:100

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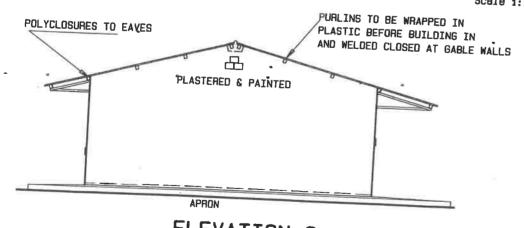


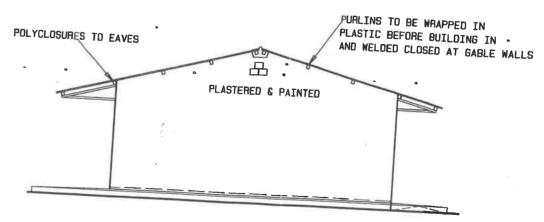






ELEVATION B



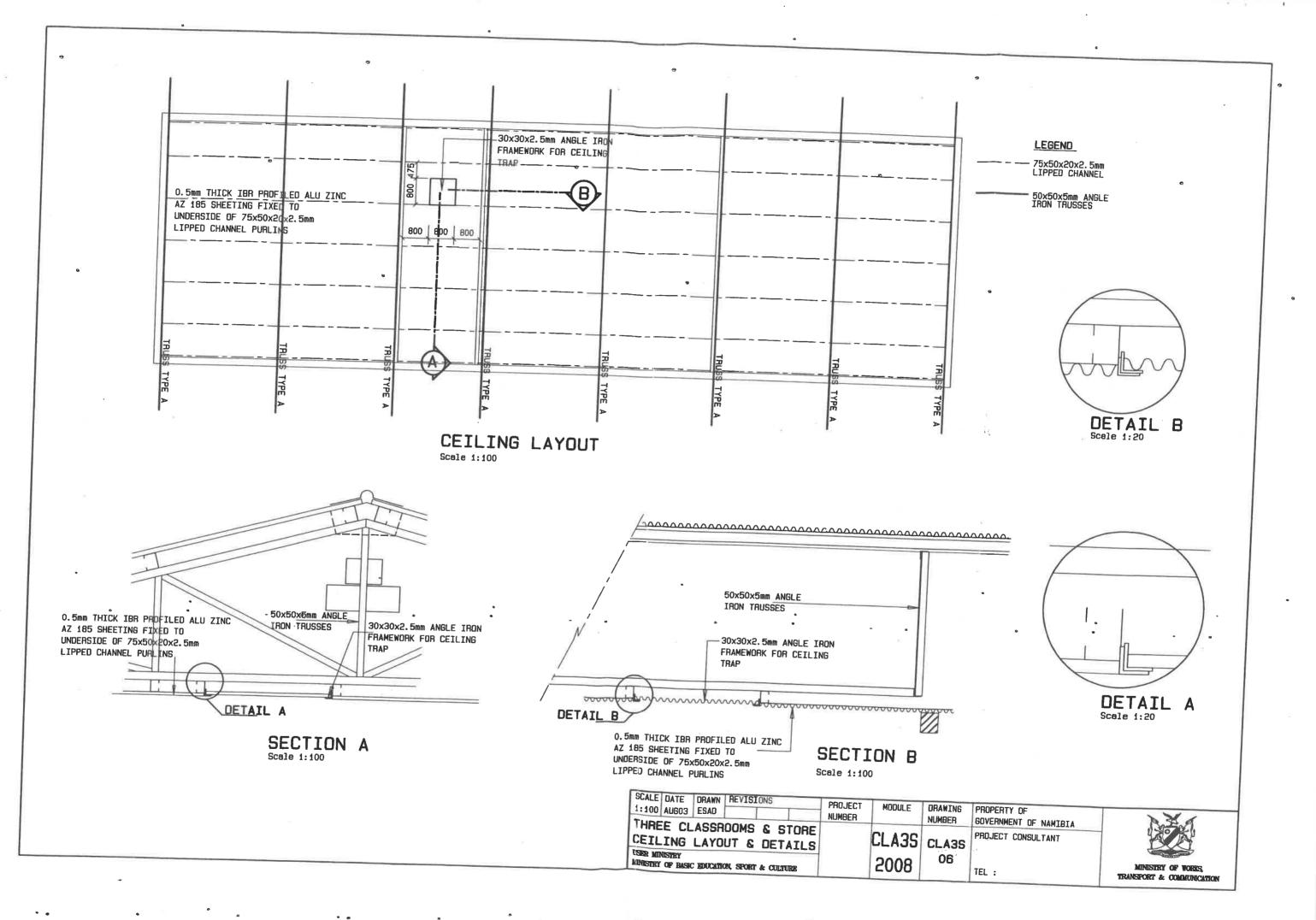


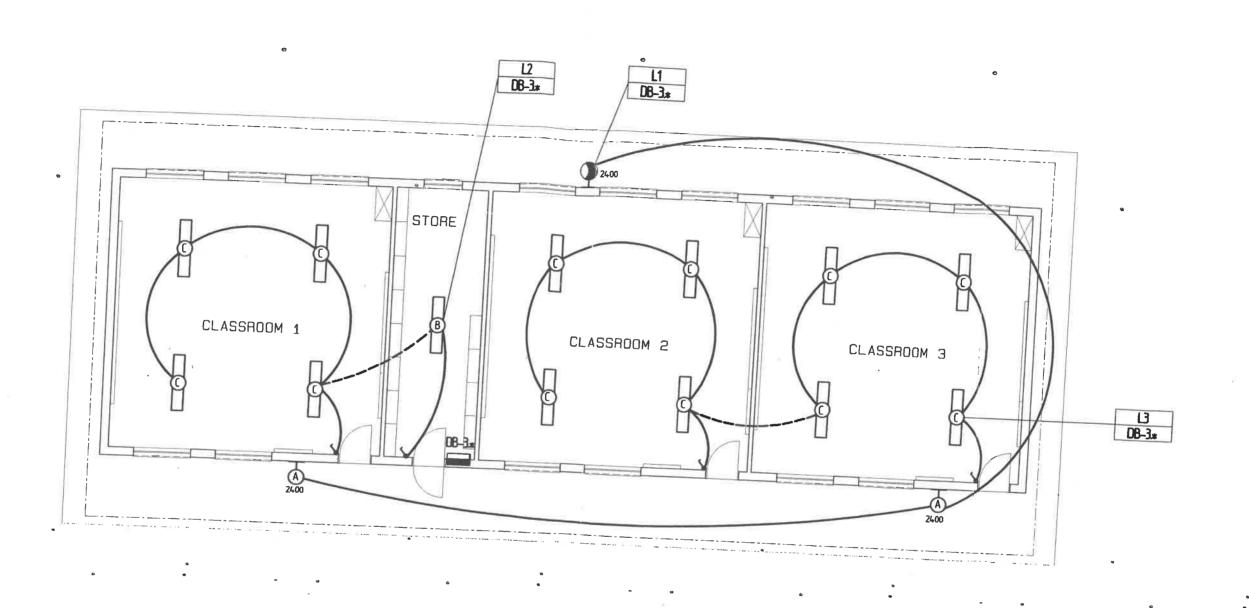
ELEVATION C

ELEVATION D

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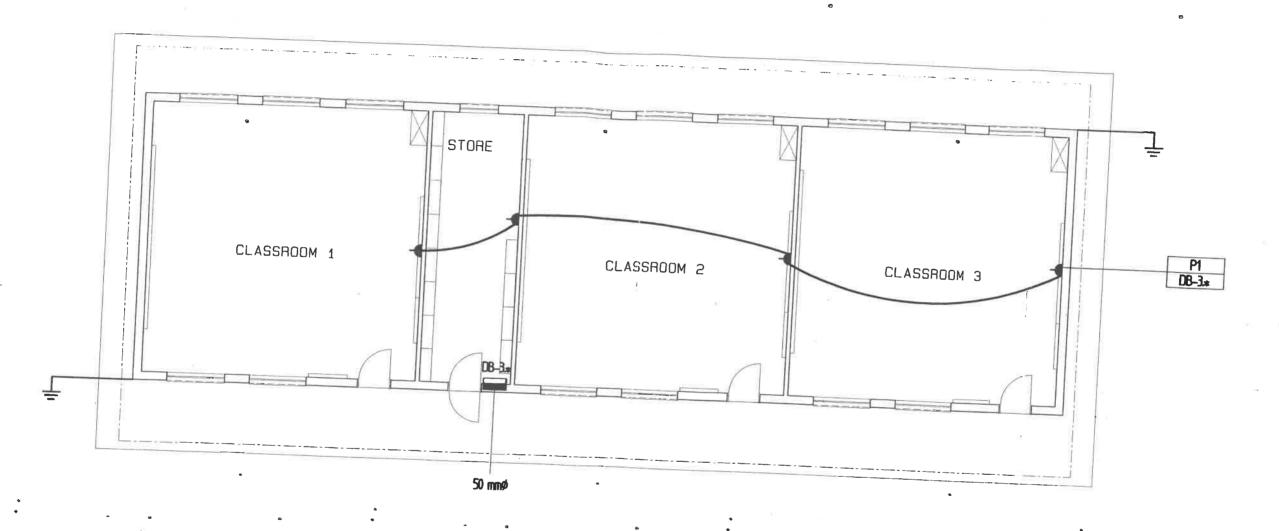




LIGHTING LAYOUT

Scale 1:100

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POWER LAYOUT

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