



Bids and Awards Committee (BAC) - Infrastructure

INVITATION TO SUBMIT QUOTATION

December 4, 2023

Reference Number: **2023-1519**

Name of Project: **CONSTRUCTION OF THE OPEN UNIVERSITY (OU) BUILDING- PHASE 1**

Project Location: BSU Compound, Km 5, La Trinidad, Benguet

Approved Budget for the Contract (ABC): Php. 3,191,537.88

Contract Duration: 128 calendar days

Source of Fund: 2023 IGI

I. Introduction:

- A. The Benguet State University, through the Bids and Awards Committee (BAC), is inviting registered contractors with valid license issued and classified by the Philippine Contractors Accreditation Board (PCAB) to bid for the above stated project. The project is a Phase I Construction of the BSU Open University Building. Scope of work includes the structural and finishing of the first floor of the building.
- B. Prospective Bidders must have key personnel and equipment (owned, leased or under leased agreement) available for the prosecution of the project.

II. Scope of Work

Item No.	Scope of Work
Part I	Facilities for the Engineer
Part II	Other General Requirements (Permits and Clearances, Project Billboard/ signboard, Occupational Safety and Health Program, Mobilization)
Part A	Earthwork <ul style="list-style-type: none"> - Clearing and Grubbing, Structure Excavation, Embankment from structure excavation, gravel bedding
Part B	Plain and Reinforced Concrete Work <ul style="list-style-type: none"> - Structural concrete (3500 PSI, 4000 PSI); Reinforcing Steel (Grade 33,40,60); Forms and Falseworks
Part C	Finishings and Other Civil Works <ul style="list-style-type: none"> - CHB Non-load bearing, plain cement floor, cement plaster, painting works, steel doors and frames, PVC Doors and frames, aluminum glass windows, glazed tiles and trims, carpentry and joinery works, plumbing, septic vault
Part D	Electrical <ul style="list-style-type: none"> - Conduits, boxes and fittings; wires and wiring devices; power load center, switch gear and panelboards; lighting fixtures

III. Technical Personnel Required

- a. Site Engineer/ site Architect – full time
- b. Materials Engineer

- c. Safety Officer/ Practitioner – part time
- d. Construction Foreman

IV. List of Equipment – must be in good condition

- a. 1 – Backhoe (0.80 m3)
- b. 1 – Dump truck (12 yd3)
- c. 1 – Plate compactor (5 HP)
- d. 1 – Concrete Vibrator
- e. 1 – Pumpcrete
- f. 1 – Bar Cutter
- g. 1 – Bar Bender

V. Eligibility Requirements (must be updated)- All eligibility requirements will be used for procurement purposes only.

- a. PhilGEPS Registration (must be Platinum)
- b. Business Permit
- c. PCAB License
- d. Computation of Net Financial Contracting Capacity (NFCC)
- e. Income and Business Tax Returns
- f. Audited Financial Statements
- g. Certificate of Site Inspection
- h. Omnibus Sworn Statement
- i. List of Technical Personnel with updated PRC licenses and accreditation
- j. List of Equipment with proof of ownership

VI. Procurement Activities:

a. Issuance of bid documents:

Interested bidders/ contractors can get a copy of the plans and designs, bill of quantities of the project **starting December 5, 2023** during office hours at the Procurement Management Office (PMO), 1st Floor, Administration Building, BSU, La Trinidad, Benguet

b. Deadline for Submission of Quotation

Quotation is to be submitted in a sealed envelope with the eligibility requirements on or before **December 12, 2023** at 10:00 AM at the Procurement Management Office (PMO), 1st Floor, Administration Building, BSU, La Trinidad, Benguet.

c. Opening of Quotation

December 12, 2023 at 10:00 AM at the RDC Hall, BSU Administration Building, La Trinidad, Benguet.

For further information, please refer to:

BAC Secretariat Committee

Benguet State University-La Trinidad Campus

Tel No. 661-1839

Email: procurement@bsu.edu.ph

(Sgd) SAMUEL S. POLIDEN
Chairperson
Bids and Awards Committee



Republic of the Philippines
BENGUET STATE UNIVERSITY
La Trinidad, Benguet
Tel No. (074) 661-1839



CERTIFICATE OF SITE INSPECTION REPORT

This is to certify that _____
(Name of Bidder or Technical Representative)

of _____
(Name of Entity)

with office address at _____

_____ had inspected the site/location for
the project: _____

located at _____

This certification is issued to Mr /Ms _____
(Name of Bidder or Representative)

as a part of his/her Technical Proposal.

Issued this _____ of _____, 2023.

Note: to be signed by the authorized representative from Project Management Unit (PMU)



Section 10
Bid Forms

Bid Form
Bid Securing Declaration
Omnibus Sworn Statement



Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date: _____

Project Identification No.: _____

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other

¹ currently based on GPPB Resolution No. 09-2020

than alternative offers in accordance with the Bidding Documents;

- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)

CITY OF _____) S.S.

BID SECURING DECLARATION

Project Identification No.: *[Insert number]*

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER OR ITS
AUTHORIZED REPRESENTATIVE] *[Insert signatory's
legal capacity] Affiant*

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. **Select one, delete the other:**

If a sole proprietorship: I am the sole proprietor or authorized representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

2. **Select one, delete the other:**

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable);];

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. **Select one, delete the rest:**

If a sole proprietorship: The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. [Name of Bidder] complies with existing labor laws and standards; and
8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a) Carefully examining all of the Bidding Documents;
 - b) Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity] Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Construction Firm / Company Logo

(NAME OF CONSTRUCTION FIRM/COMPANY)
(ADDRESS OF CONSTRUCTION FIRM/COMPANY)

BILL OF QUANTITIES

PROJECT TITLE:	PROPOSED OPEN UNIVERSITY BUILDING (PHASE-I)
PROJECT LOCATION:	BSU COMPOUND, KML5, BALILI, LA TRINIDAD, BENGUET
ABC:	PHP 3,191,537.88
PROJECT DURATION:	126 C.D. INCLUSIVE OF: 13 UNWORKABLE DAYS
IMPLEMENTATION MODE:	BY CONTRACT

PROJECT DESCRIPTION	EQUIPMENT NEEDED		EQUIPMENT NEEDED	
	NO.	DESCRIPTION	NO.	DESCRIPTION
The project is a PHASE - I Construction of the BSU Open University Building. Scope of work includes the structural and finishing of the first floor of the building.	1	Backhoe (6.60 m3)	1	One-bagger mixer
	1	Dump Truck (12 yd3)	TECHNICAL PERSONEL	
	1	Plate Compactor (5 hp)	NO.	DESCRIPTION
	1	Concrete Vibrator	1	Site Engineer / Site Architect
	1	Pumpcrete	1	Materials Engineer
	1	Bar Cutter	1	Safety Officer / Practitioner (part time)
	1	Bar Bender	1	Construction Foreman

ITEM NO.	DESCRIPTION	% WEIGHT	QUANTITY	UNIT	UNIT COST	TOTAL COST
PART I	FACILITIES FOR THE ENGINEER					
A.1.1 (2)	Provision of Field Office for the Engineer (Rental Basis)		0.71	month		
PART II	OTHER GENERAL REQUIREMENTS					
B.3	Permits and Clearances (Building Permit)		1.00	lump sum		
B.5	Project Billboard / Signboard		1.00	each		
B.7	Occupational Safety and Health Program		1.00	month		
B.9	Mobilization / Demobilization		1.00	lump sum		
PART A	EARTHWORK					
800 (1)	Clearing and Grubbing		214.50	sq.m.		
803 (1)a	Structure Excavation (Common Soil)		317.87	cu.m.		
804 (1)a	Embankment from Structure Excavation		333.87	cu.m.		
804 (4)	Gravel Bedding		10.60	cu.m.		
PART B	PLAIN AND REINFORCED CONCRETE WORK					
900 (1)c1	Structural Concrete, 3500 psi at 28 days (for foundations)		42.40	cu.m.		
900 (1)c2	Structural Concrete, 4000 psi at 28 days (for columns, beams, slabs, and stair)		58.76	cu.m.		
902 (1)a	Reinforcing Steel, GRADE 33 (Deformed) *for ties, stirrups, and slabs		7,502.17	lbs.		
902 (1)a1	Reinforcing Steel, GRADE 40 (Deformed) *for footings, beams, and stairs		6,568.84	lbs.		
902 (1)a2	Reinforcing Steel, GRADE 60 (Deformed) *for columns		2,796.00	lbs.		
900 (2)	Forms and Falseworks		140.63	sq.m.		
PART C	FINISHINGS AND OTHER CIVIL WORKS					
1045 (2)a1	100mm CHB Non-Load Bearing (Including Reinforcing Steel)		175.95	sq.m.		
1021 (1)a	Plain Cement Floor Finish		93.25	sq.m.		
1027 (1)	Cement Plaster Finish		387.08	sq.m.		
1032 (1)	Painting Works		438.00	sq.m.		
1006	Steel Doors and Frames		6.00	sq.m.		
1010 (2)c	Wooden Panel Door with Glass		2.00	sq.m.		
1043 (1)	PVC Door and Frames		2.00	sq.m.		
1008	Aluminum Glass Windows		30.00	sq.m.		
1018 (1)	Glazed Tiles and Trims		39.26	sq.m.		
1018 (2)	Unglazed Tiles		17.53	sq.m.		
1060 (17)	Carpentry and Joinery Works		1.00	lump sum		
1002	Plumbing		1.00	lump sum		
SPL.1	Septic Vault		1.00	lump sum		
PART D	ELECTRICAL					
1100	Conduits, Boxes, and Fittings		1.00	lump sum		
1101	Wires and Wiring Devices		1.00	lump sum		
1102	Power Load Center, Switchgear and Panelboards		1.00	lump sum		
1103	Lighting Fixture		21.00	sets		
TOTAL BID COST						

BREAKDOWN OF BID COST		TOTAL COST
A.	DIRECT COST	
	EQUIPMENT	
	LABOR	
	MATERIALS	
B.	INDIRECT COST	
	OCM	
	CONTRACTOR'S PROFIT	
	TAXES	
C.	PROJECT COST(TOTAL A+B)	
TOTAL BID COST IN FIGURES		

TOTAL BID AMOUNT IN WORDS: _____

I hereby submit the foregoing bid, and that I understand the terms and conditions of the contract.

(Signature)

 NAME OF BIDDER/CONTRACTOR
 POSITION
 NAME OF CONSTRUCTION FIRM/COMPANY
 DATE: _____

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : A.1.1 (8) Provision of Field Office for the Engineer (Rental Basis)
 Quantity : 0.71
 Unit of Measurement : month
 Output per hour :

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Colored Printer (Can print up to A3 size paper)	1			
	b. 1.2m x 2.4m Wooden Table	1			
	c. Plastic Chairs with Backrest	6			
	d. 20 ft. Container Van (ACU maintained)	1			
	Sub - Total for B				
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses		0%	of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : B.3 Permits and Clearances (Building Permit)
 Quantity : 1.00
 Unit of Measurement : lump sum
 Output per hour :

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Professional Electrical Engineer				
	b. Master Plumber / Sanitary Engineer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Zoning Fee	lump sum	1		
	b. Fire Safety Inspection Clearance and Certificate	lump sum	1		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			0% of D	-
F.	Contractor's Profit (CP)			0% of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : B.5 Project Billboard / Signboard
 Quantity : 1.00
 Unit of Measurement : each
 Output per hour :

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Minor Tools				-
	Sub - Total for B				-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Printed Billboard Tarpaulin (8' x 8')	sq.ft.	64		
	b. 1/4"x1.2m x 2.44m Ordinary Plywood	pcs.	2		
	c. Good Lumber (Frames)	bd.ft.	35		
	d. Assorted CWNs	kg.	1		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : B.7 Occupational Safety and Health Program
 Quantity : 1.00
 Unit of Measurement : month
 Output per hour :

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Safety Officer / Practitioner (part time)	1			
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hours	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Assorted Safety Barricades and Enclosures	1	lump sum		
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Safety First Signage (2' x 3')	sets	3		
	b. Warning Signs (2' x 3')	sets	3		
	c. Caution Tape, 100ft	roll	1		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			0% of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : B.9 Mobilization / Demobilization
 Quantity : 1.00
 Unit of Measurement : lump sum
 Output per hour :

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Skilled Laborer				
	b. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Units	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Cargo/Service Truck (9-10 ml)				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses		0% of D		-
F.	Contractor's Profit (CP)		0% of D		-
G.	Value Added Tax (VAT)		of (D+E+F)		-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 800 (1) Clearing and Grubbing
 Quantity : 214.50
 Unit of Measurement : sq.m.
 Output per hour : m²

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Unskilled Laborer				
	Sub - Total for A				-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Minor Tools				
	Sub - Total for B				-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 803 (1)a Structure Excavation (Common Soil)
 Quantity : 317.97
 Unit of Measurement : cu.m.
 Output per hour : m³

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Unskilled Laborer				
	Sub - Total for A				
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Backhoe (0.80 m ³)	1			
	b. Dump Truck (12 yd ³)	2			
	c. Minor Tools				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 804 (1)a Embankment from Structure Excavation
 Quantity : 333.87
 Unit of Measurement : cu.m.
 Output per hour : m²

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A. Labor					
a. Construction Foreman					
b. Unskilled Laborer					
Sub - Total for A					
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B. Equipment					
a. Backhoe (0.80 m ³)		1			
b. Plate Compactor (5 hp)		1			
c. Minor Tools					
Sub - Total for B					
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials					
Sub - Total for C					
D. Total Direct Cost				(A+B+C)	-
E. Overhead, Contingencies & Miscellaneous (OCM) Expenses				of D	-
F. Contractor's Profit (CP)				of D	-
G. Value Added Tax (VAT)				of (D+E+F)	-
H. Total Indirect Cost				(E+F+G)	-
I. Total Cost				(D+H)	-
J. Unit Cost					-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 804 (4) Gravel Bedding
 Quantity : 10.60
 Unit of Measurement : cu.m.
 Output per hour : m³

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Unskilled Laborer				
	Sub - Total for A				-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Plate Compactor (5 hp)	1			
	c. Minor Tools				
	Sub - Total for B				-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Gravel Bedding (G1) (w/ 5% Shrinkage Factor)	cu.m.	11		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 900 (1)c1 Structural Concrete, 3500 psi at 28 days (for foundations)
 Quantity : 42.40
 Unit of Measurement : cu.m.
 Output per hour : m³

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Concrete Vibrator	2			
	b. Pumpcrete	1			
	c. Minor Tools				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Ready Mix Concrete (3500 psi at 28 days)	cu.m.	43		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 900 (1)x2 Structural Concrete, 4000 psi at 28 days (for columns, beams, slabs, and stair)
 Quantity : 58.76
 Unit of Measurement : cu.m.
 Output per hour : m³

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Units	No. of Hours	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Concrete Vibrator	2			
	b. Pumperole	1			
	c. Minor Tools				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Ready Mix Concrete (4000 psi at 28 days)	cu.m.	59		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 902 (1)a. Reinforcing Steel, GRADE 33 (Deformed) *for ties, stirrups, and slabs
 Quantity : 7502.17
 Unit of Measurement : kgs.
 Output per hour : kgs.

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Bar Cutter	1			
	b. Bar Bender	1			
	c. Minor Tools				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Deformed Reinforcing Steel GRADE 33	kgs.	7503		
	b. #16 Galvanized Iron Wire	kgs.	113		
	c. Consumables (5% of material cost)				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 902 (1)a1 Reinforcing Steel, GRADE 40 (Deformed) *for footings, beams, and stairs
 Quantity : 6588.64
 Unit of Measurement : kgs.
 Output per hour : kgs.

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Bar Cutter	1			
	b. Bar Bender	1			
	c. Minor Tools				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Deformed Reinforcing Steel GRADE 40	kgs.	6589		
	b. #16 Galvanized Iron Wire	kgs.	99		
	c. Consumables (5% of material cost)				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 902 (1)a2 Reinforcing Steel, GRADE 60 (Deformed) *for columns
 Quantity : 2796.00
 Unit of Measurement : kgs.
 Output per hour : kgs.

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Bar Cutter	1			
	b. Bar Bender	1			
	Minor Tools (10% of labor cost)				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Deformed Reinforcing Steel GRADE 60	kgs.	2796		
	b. #16 Galvanized Iron Wire	kgs.	42		
	c. Consumables (5% of material cost)				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 903 (2) Forms and Falseworks
 Quantity : 140.63
 Unit of Measurement : sq.m.
 Output per hour : m²

Designation		No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
A. Labor					
<i>Installation</i>					
a. Construction Foreman					
b. Skilled Laborer					
c. Unskilled Laborer					
<i>Stripping</i>					
a. Skilled Laborer					
b. Unskilled Laborer					
Sub - Total for A					-
Name and Capacity		No of Unit/s	No. of Hours	Hourly Rate	Amount (Php)
B. Equipment					
a. H-Frame 1.7m x 1.2m, set		40			
2 pcs. H-frames					
4 pcs. diagonal cross braces					
4 pcs. horizontal braces					
8 pcs. Joint pins					
b. Shoring Jack, 3.8m full extension		62			
c. Adjustable U-head Jack, 0.8m		80			
d. Adjustable Base Jack, 0.80m		80			
e. 1-1/2" G.I. Pipe x 6.0 m		62			
f. 1-1/2" G.I. Pipe x 3.0 m		16			
g. 1-1/2" G.I. Pipe x 4.0 m		32			
h. 1-1/2" G.I. Pipe x 1.0 m		216			
i. Tie Rod x 0.80m.		278			
j. Round Wing Nut		558			
Sub - Total for B					-
Name and Specification		Unit	Quantity	Unit Cost	Amount (Php)
C. Materials					
a. Phenolic Board (0.19mm x 1.2m x 2.4m) - 3 uses		pcs.	49		
b. Good Lumber - 3 uses		bd. ft.	665		
c. Consumables (5% of material cost)					
Sub - Total for C					-
D. Total Direct Cost				(A+B+C)	-
E. Overhead, Contingencies & Miscellaneous (OCM) Expenses				of D	-
F. Contractor's Profit (CP)				of D	-
G. Value Added Tax (VAT)				of (D+E+F)	-
H. Total Indirect Cost				(E+F+G)	-
I. Total Cost				(D+H)	-
J. Unit Cost					-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1046 (2)a1 100mm CHB Non-Load Bearing (Including Reinforcing Steel)
 Quantity : 175.95
 Unit of Measurement : sq.m.
 Output per hour : m²

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. One-bagger mixer	1			
	c. Minor Tools				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. 100mm thk. CHB (Non-Load Bearing)	pcc.	2200		
	b. Cement	bags	93		
	c. Sand	cu.m.	8		
	d. 10mm dia. Reinforcing Steel, GRADE33	kgs.	571		
	e. #16 G.I. Tie Wire	kgs.	9		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1021 (1)a Plain Cement Floor Finish
 Quantity : 93.25
 Unit of Measurement : sq.m.
 Output per hour : m²

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Minor Tools				-
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Cement	bags	68		
	b. Sand	cu.m.	6		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1027 (1) Cement Plaster Finish
 Quantity : 387.09
 Unit of Measurement : sq.m.
 Output per hour : m²

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. H-Frame 1.7m x 1.2m, set	2			
	2 pcs. H-frames				
	4 pcs. diagonal cross braces				
	4 pcs. horizontal braces				
	8 pcs. Joint pins				
	b. Minor Tools				-
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Cement	bags	128		
	b. Sand	cu.m.	11		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-



DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1032 (1) Painting Works
 Quantity : 438.00
 Unit of Measurement : sq.m.
 Output per hour : m²

Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (PhP)
A. Labor				
a. Construction Foreman				
b. Skilled Laborer				
c. Unskilled Laborer				
Sub - Total for A				-
Name and Capacity	No of Unit/s	No. of Hours	Hourly Rate	Amount (PhP)
B. Equipment				
a. H-Frame 1.7m x 1.2m, set	2			
2 pcs. H-frames				
4 pcs. diagonal cross braces				
4 pcs. horizontal braces				
8 pcs. Joint pins				
b. Minor Tools				
Sub - Total for B				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials				
<i>Interior Walls, Ceiling, Columns, and Beams = 213 sq.m.</i>				
a. Skimcoat (Konstrukt™ Permaplast™ K-201 High Performance Acrylic Skimcoat or equivalent)	gals.	23		
b. Primer (Boysen Acrytex™ Flat Latex #701 or equivalent)	gals.	9		
c. Putty (Spot) (Boysen Acrytex™ Cast #1711 or equivalent)	gals.	9		
d. Topcoat (Boysen Permacoat™ Latex or equivalent)	gals.	16		
e. Thinning Solvent for Putty (Boysen Acrytex™ Reducer #1750 or equivalent)		2		
<i>e. Consumables</i>				
<i>Chlorinated Rubber-based Floor Coating (1F Flooring) = 113sq.m.</i>				
a. Epocool Clear (Davies or equivalent)	gals.	4		
b. Epopatch (Davies or equivalent)	gals.	4		
c. Acreec (Davies or equivalent)	gals.	5		
d. Acreec (Davies or equivalent)	gals.	5		
e. Acreec Reducer (Davies or equivalent)	gals.	1		
f. Epoxy Reducer (Davies or equivalent)	gals.	1		
<i>g. Consumables</i>				
<i>Cementitious Waterproofing System (2F Slab) = 113sq.m.</i>				
a. Waterproofing Topcoat (Boysen Plexibond™ or equivalent)	gals.	24		
b. Primer (Boysen Acrytex™ Primer or equivalent)	gals.	5		
c. Cement	bag	1		
d. Consumables				
Sub - Total for C				-
D. Total Direct Cost			(A+B+C)	-
E. Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F. Contractor's Profit (CP)			of D	-
G. Value Added Tax (VAT)			of (D+E+F)	-
H. Total Indirect Cost			(E+F+G)	-
I. Total Cost			(D+H)	-
J. Unit Cost				-


DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1006 Steel Doors and Frames
 Quantity : 6.00
 Unit of Measurement : sq.m.
 Output per hour : m²

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A. Labor					
a. Construction Foreman					
b. Skilled Laborer					
c. Unskilled Laborer					
Sub - Total for A					-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B. Equipment					
a. Welding Machine		1			
b. Minor Tools					
Sub - Total for B					-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials					
a.	 *Refer to plan for specifications.	sq.m.	3		
b.	 *Refer to plan for specifications.	sq.m.	3		
c. Consumables					
Sub - Total for C					-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-


DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1010 (2)c Wooden Panel Door with Glass
 Quantity : 2.00
 Unit of Measurement : sq.m.
 Output per hour : m²

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A. Labor					
a. Construction Foreman					
b. Skilled Laborer					
c. Unskilled Laborer					
Sub - Total for A					-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B. Equipment					
a. Minor Tools					
Sub - Total for B					-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials					
a.	 *Refer to plan for specifications.	sq.m.	2		
b. Consumables					
Sub - Total for C					-
D. Total Direct Cost				(A+B+C)	-
E. Overhead, Contingencies & Miscellaneous (OCM) Expenses				of D	-
F. Contractor's Profit (CP)				of D	-
G. Value Added Tax (VAT)				of (D+E+F)	-
H. Total Indirect Cost				(E+F+G)	-
I. Total Cost				(D+H)	-
J. Unit Cost					-




DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1043 (1) PVC Doors and Frames
 Quantity : 2.00
 Unit of Measurement : sq.m.
 Output per hour : m²

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Minor Tools				
	Sub - Total for B				-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a.  *Refer to plan for specifications.	sq.m.	2		
	b. Consumables				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1008 Aluminum Glass Windows
 Quantity : 30.00
 Unit of Measurement : sq.m.
 Output per hour : m²

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A. Labor					
a. Construction Foreman					
b. Skilled Laborer					
c. Unskilled Laborer					
Sub - Total for A					-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B. Equipment					
a. Minor Tools					
Sub - Total for B					-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials					
a.	 *Refer to plan for specifications.	sq.m.	24		
b.	 *Refer to plan for specifications.	sq.m.	2		
c.	 *Refer to plan for specifications.	sq.m.	4		
d. Consumables					
Sub - Total for C					-
D. Total Direct Cost				(A+B+C)	-
E. Overhead, Contingencies & Miscellaneous (OCM) Expenses				of D	-
F. Contractor's Profit (CP)				of D	-
G. Value Added Tax (VAT)				of (D+E+F)	-
H. Total Indirect Cost				(E+F+G)	-
I. Total Cost				(D+H)	-
J. Unit Cost					-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1018 (1) Glazed Tiles and Trims
 Quantity : 39.28
 Unit of Measurement : sq.m.
 Output per hour : m²

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A. Labor					
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B. Equipment					
	a. Minor Tools				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials					
	a. Glazed Tiles	sq.m.	42		
	b. Cement	bags	13		
	c. Sand	cum.	2		
	d. Tile Grout	bags	5		
	e. Tile Adhesive (25 kg.)	bags	6		
	f. Consumables				
	Sub - Total for C				-
D. Total Direct Cost				(A+B+C)	-
E. Overhead, Contingencies & Miscellaneous (OCM) Expenses				of D	-
F. Contractor's Profit (CP)				of D	-
G. Value Added Tax (VAT)				of (D+E+F)	-
H. Total Indirect Cost				(E+F+G)	-
I. Total Cost				(D+H)	-
J. Unit Cost					-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1018 (2) Unglazed Tiles
 Quantity : 17.53
 Unit of Measurement : sq.m.
 Output per hour : m²

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Minor Tools				-
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Unglazed Tiles	sq.m.	19		
	b. Cement	bags	5		
	c. Sand	cu.m.	1		
	d. Tile Adhesive (25 kg)	bags	3		
	e. Tile Grout	bags	3		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1003 (17) Carpentry and Joinery Works
 Quantity : 1.00
 Unit of Measurement : lump sum
 Output per hour : set

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hours	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Minor Tools				
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Male Restroom Cubicle (*refer to plan) 19mm thk. Fabricated PVC Partition Panel Fixed on Metal Frame with Complete Accessories)	set	1		
	b. Female Restroom Cubicle (*refer to plan) 19mm thk. Fabricated PVC Partition Panel Fixed on Metal Frame with Complete Accessories)	set	1		
	c. Male Urinal Partition (*refer to plan) 19mm thk. Fabricated PVC Partition Panel Fixed on Metal Frame with Complete Accessories)	sets	2		
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1002 Plumbing
 Quantity : 1.00
 Unit of Measurement : lump sum
 Output per hour :

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A. Labor					
a. Construction Foreman					
b. Skilled Laborer					
c. Unskilled Laborer					
Sub - Total for A					-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B. Equipment					
a. Minor Tools					-
Sub - Total for B					-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials					
a. Water Closet, Round Front (with fittings and accessories)		set	3		
b. Urinal, Flush Valve (with fittings and accessories)		set	2		
c. Lavatory, Wall Hung (with fittings and accessories)		set	3		
d. 100mm dia. Stainless Floor Drain Plates		pcs.	5		
e. 40mm dia. Stainless Steel Grab Bar (w/ accessories)		linear meter	4		
f. 0.9m x 1.0m Facial Mirror (*for Female CR)		sq.m.	0.9		
g. 100mm Ø PVC Pipe and Fittings, Series 1000 (WC to Septic Tank)		lump sum	1		
h. 50mm Ø PVC Pipe and Fittings, Series 1000 (WC to Septic Tank)		lump sum	1		
i. 13mm Ø x 4.00m Polypropylene Random Copolymer (PPR-C) Pipe and		lump sum	1		
j. 0.4m x 0.5m Stainless Kitchen Sink		set	1		
k. Stainless Steel Faucet		pcs.	4		
l. Consumables					
Sub - Total for C					-
D. Total Direct Cost				(A+B+C)	-
E. Overhead, Contingencies & Miscellaneous (OCM) Expenses				of D	-
F. Contractor's Profit (CP)				of D	-
G. Value Added Tax (VAT)				of (D+E+F)	-
H. Total Indirect Cost				(E+F+G)	-
I. Total Cost				(D+H)	-
J. Unit Cost					-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : SPL.1 Septic Vault
 Quantity : 1.00
 Unit of Measurement : lump sum
 Output per hour :

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A. Labor					
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B. Equipment					
	a. Minor Tools				-
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials					
	a. Ready Mix Concrete 3000psi @ 28 days	cu.m.	5.3		
	b. 10mm dia. RSB, GRADE33	kgs.	278.1		
	c. Plywood Ordinary (0.0125m x 1.2m x 2.44m) - 3 uses	pcs.	17		
	d. Good Lumber - 3 uses	bd.ft.	250		
	e. 100mm Ø PVC Pipe and Fittings, Series 1000 *refer to plan	lump sum	1		
	f. Consumables				
	Sub - Total for C				-
D. Total Direct Cost				(A+B+C)	-
E. Overhead, Contingencies & Miscellaneous (OCM) Expenses				of D	-
F. Contractor's Profit (CP)				of D	-
G. Value Added Tax (VAT)				of (D+E+F)	-
H. Total Indirect Cost				(E+F+G)	-
I. Total Cost				(D+H)	-
J. Unit Cost					-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1100 Conduits, Boxes, and Fittings
 Quantity : 1.00
 Unit of Measurement : lump sum
 Output per hour :

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Minor Tools				-
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. 50mm Ø Rigid Steel Conduit (RSC)	pcs.	5		
	b. 25mm Ø Polyvinyl Chloride (PVC) Pipes	pcs.	5		
	c. 15mm Ø Polyvinyl Chloride (PVC) Pipes	pcs.	27		
	d. 25mm Ø Polyvinyl Chloride (PVC) Pipe Fittings	lump sum	1		
	e. 15mm Ø Polyvinyl Chloride (PVC) Pipe Fittings	lump sum	1		
	f. Junction / Utility / Pull / Square Boxes	lump sum	1		
	g. 25.4mm Ø Service Entrance Cap	pcs.	2		
	h. Secondary Rack with 2 pcs. Spool	pcs.	1		
	i. Consumables				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1101 Wires and Wiring Devices
 Quantity : 1.00
 Unit of Measurement : lump sum
 Output per hour :

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (PhP)
A. Labor					
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
	Name and Capacity	No of Unit/s	No. of Hours	Hourly Rate	Amount (PhP)
B. Equipment					
	a. Minor Tools				-
	Sub - Total for B				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials					
	a. 8.0 mm ² Electric Wire (TW / THHN / TWHN2)	linear meter	25		
	b. 3.5 mm ² Electric Wire (TW / THHN / TWHN2)	linear meter	200		
	c. 2.0 mm ² Electric Wire (TW / THHN / TWHN2)	linear meter	400		
	d. Single Pole Wall Switch on one switch plate	set	6		
	e. Duplex Wall Switch, 2 single pole on one switch plate	set	1		
	f. Duplex Convenience Outlet	set	15		
	g. Consumables				
	Sub - Total for C				-
D. Total Direct Cost				(A+B+C)	-
E. Overhead, Contingencies & Miscellaneous (OCM) Expenses				of D	-
F. Contractor's Profit (CP)				of D	-
G. Value Added Tax (VAT)				of (D+E+F)	-
H. Total Indirect Cost				(E+F+G)	-
I. Total Cost				(D+H)	-
J. Unit Cost					-

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1102 Power Load Center, Switchgear and Panelboards
 Quantity : 1.00
 Unit of Measurement : lump sum
 Output per hour :

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A.	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
	Sub - Total for A				-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B.	Equipment				
	a. Minor Tools				-
	Sub - Total for B				-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C.	Materials				
	a. Panelboard with Main Breaker and 140 Branches (Bolt-on Type) NEMA brand or equivalent	set	1		
	b. 40 Amp. Automatic Circuit Breaker (Bolt-on Type)	pcs.	1		
	c. 20 Amp. Automatic Circuit Breaker (Bolt-on Type)	pcs.	4		
	d. 15 Amp. Automatic Circuit Breaker (Bolt-on Type)	pcs.	2		
	e. 16mm dia. X 2m Ground Bare Copper	pcs.	1		
	f. Consumables				
	Sub - Total for C				-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-

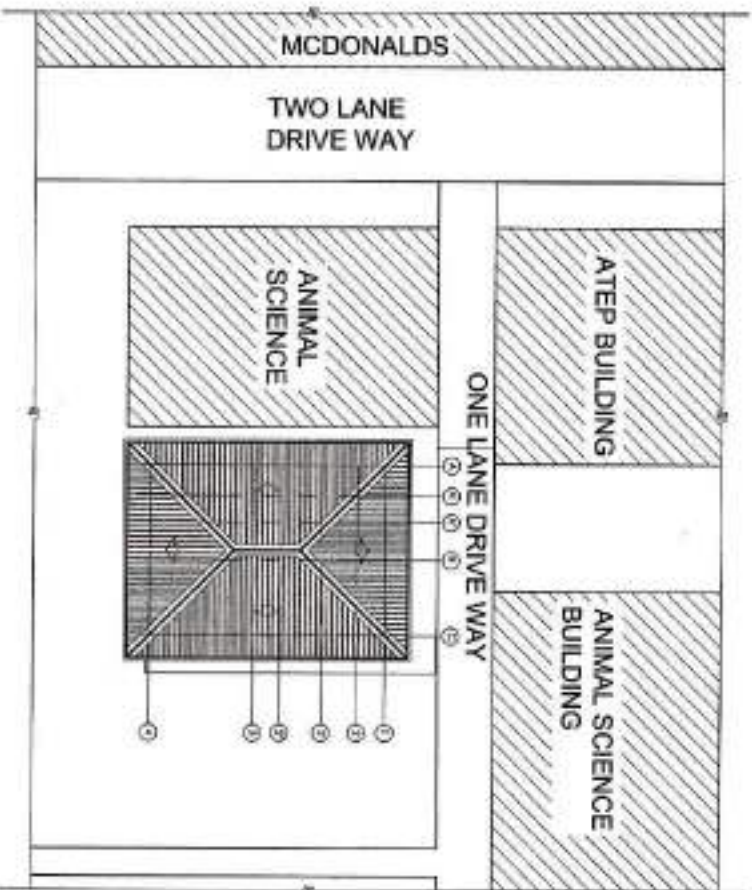
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1103 Lighting Fixture
 Quantity : 21.00
 Unit of Measurement : sets
 Output per hour :

Designation		No. of Person/s	No. of Hour/s	Hourly Rate	Amount (PhP)
A. Labor	Labor				
	a. Construction Foreman				
	b. Skilled Laborer				
	c. Unskilled Laborer				
Sub - Total for A					-
Name and Capacity		No of Unit/s	No. of Hour/s	Hourly Rate	Amount (PhP)
B. Equipment	Equipment				
	a. Minor Tools				
Sub - Total for B					-
Name and Specification		Unit	Quantity	Unit Cost	Amount (PhP)
C. Materials	Materials				
	a. 60 Watts Surface Mounted LED Pin Light with 6" Ø Casing and complete accessories	sets	21		
	b. Consumables				
Sub - Total for C					-
D.	Total Direct Cost			(A+B+C)	-
E.	Overhead, Contingencies & Miscellaneous (OCM) Expenses			of D	-
F.	Contractor's Profit (CP)			of D	-
G.	Value Added Tax (VAT)			of (D+E+F)	-
H.	Total Indirect Cost			(E+F+G)	-
I.	Total Cost			(D+H)	-
J.	Unit Cost				-



A1-01 PERSPECTIVE
SCALE: _____ MTS



A1-02 SITE DEVELOPMENT PLAN
SCALE: 1:400 MTS

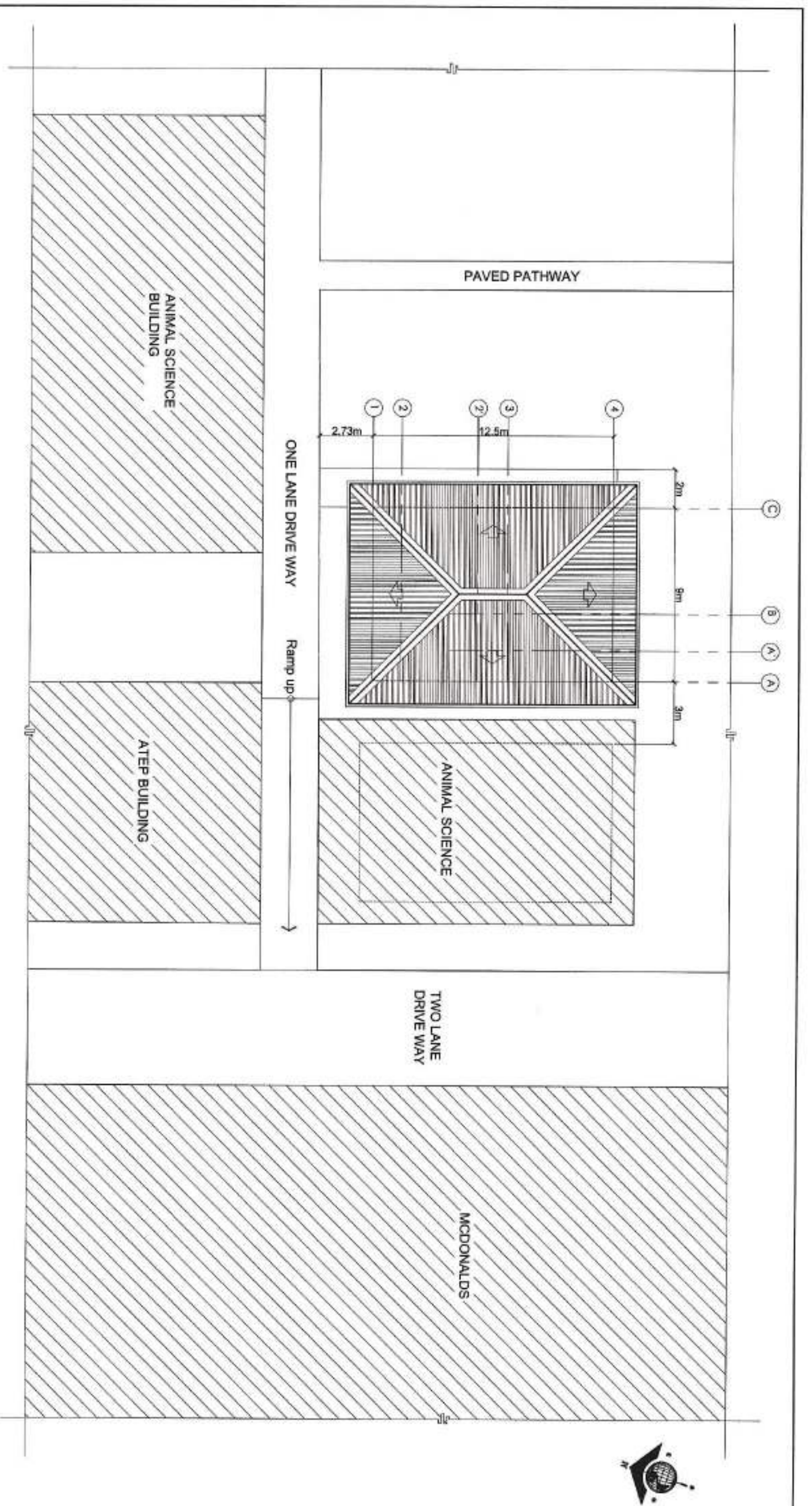


A1-03 VICINITY MAP
SCALE: _____ MTS

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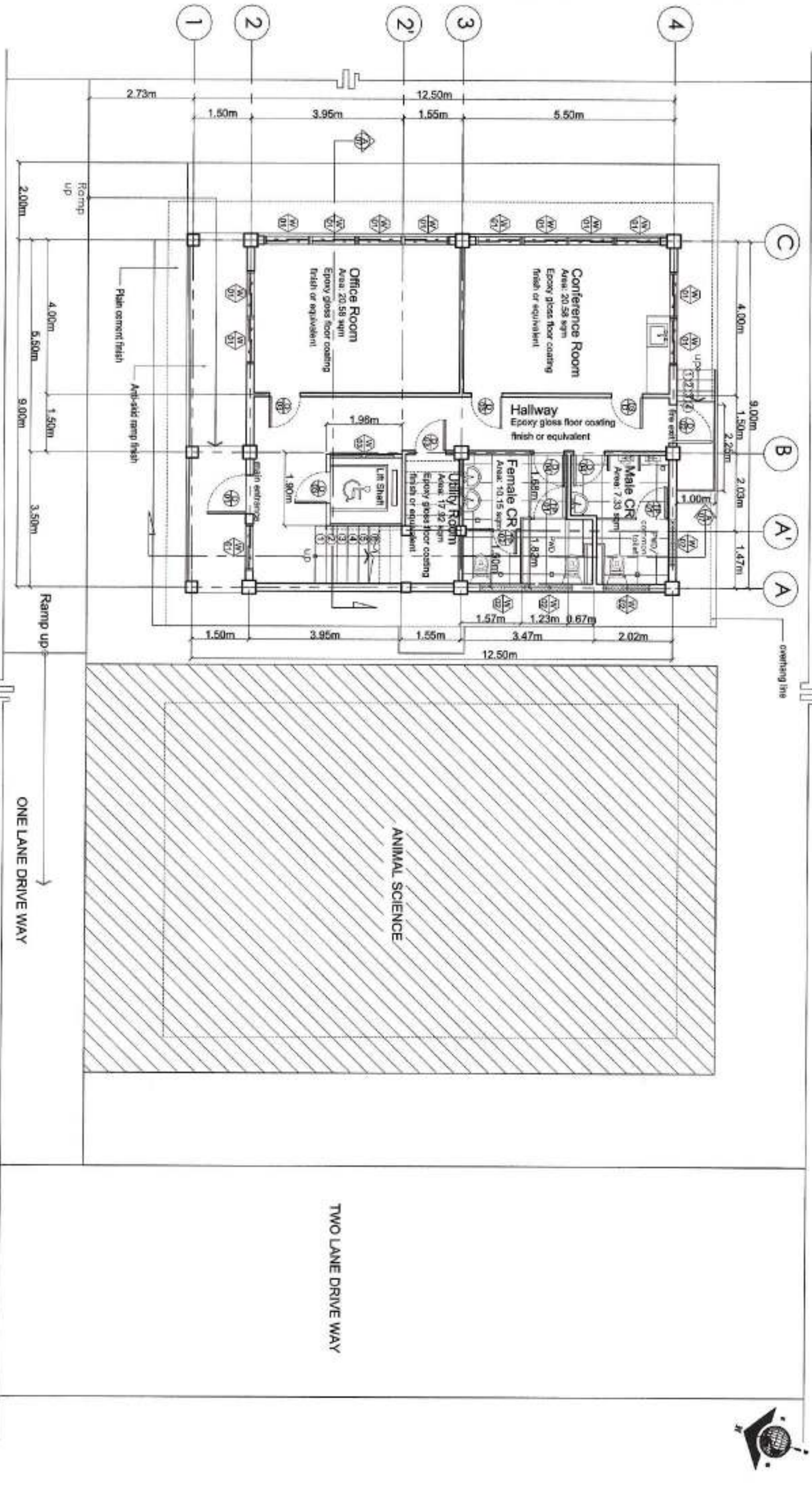
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A1	EXTERIOR PERSPECTIVE	LAND USE AND ZONING	
A2	VICINITY MAP		
A3	SITE DEVELOPMENT PLAN		
A4	FIRST FLOOR PLAN		
A5	SECOND FLOOR PLAN		
A6	ROOF PLAN		
A7	REFLECTED CEILING PLAN		
A8	FRONT ELEVATION		
A9	REAR ELEVATION		
A10	RIGHT ELEVATION		
E1	SECTIONS AND BLOW-UP DETAIL	LINE AND GRADE	
E2	LEFT ELEVATION		
E3	RIGHT ELEVATION		
E4	SECTION AND BLOW-UP DETAIL		
E5	WINDOWS AND DOORS SCHEDULE		
P1	CUBICLES SCHEDULE	ARCHITECTURAL	
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S1	PLUMBING GENERAL NOTES	MECHANICAL	
S2	PLUMBING LEGEND		
S3	WATER LINE LAYOUT		
S4	SANITARY LAYOUT		
S5	STORM DRAINAGE LAYOUT AND		
S6	ISOMETRIC DIAGRAM		
S7	SEPTIC TANK SECTION & PLAN		
S8	SEPTIC TANK COMPUTATIONS		
S9	AND ANALYSIS		
S10	STRUCTURAL GENERAL NOTES		ELECTRICAL
S11	STRUCTURAL GENERAL NOTES		
S12	FOUNDATION & FRAMING LAYOUT		
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S14	ROOF FRAMING & FOOTING SCHEDULE		
S15	FOOTING SCHEDULE		
S16	COLUMN SCHEDULE		
S17	COLUMN DETAILS		
S18	BEAM SCHEDULE		
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S20	BEAM & SLAB SCHEDULE		
S21	TRUSS DETAILS & PHASE I	SANITARY	
S22	STRUCTURAL LIMIT		
S23	STAIRS FRAMING PLAN, SECTION		
S24	DETAILS AND SPOT DETAILS		
S25	STRUCTURAL GENERAL NOTES		PLUMBING
S26	STRUCTURAL GENERAL NOTES		
S27	FOUNDATION & FRAMING LAYOUT		
S28	FRAMING LAYOUT		
S29	ROOF FRAMING & FOOTING SCHEDULE		
S30	FOOTING SCHEDULE		
S31	COLUMN SCHEDULE		
S32	COLUMN DETAILS		
S33	BEAM SCHEDULE		
S34	BEAM & SLAB SCHEDULE		
S35	BEAM & SLAB SCHEDULE		
S36	TRUSS DETAILS & PHASE I	ELECTRONICS	
S37	STRUCTURAL LIMIT		
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S39	DETAILS AND SPOT DETAILS		
S40	STRUCTURAL GENERAL NOTES		GEODETIC ENGINEER
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S51	TRUSS DETAILS & PHASE I	RESIDENT	
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S53	STAIRS FRAMING PLAN, SECTION		
S54	DETAILS AND SPOT DETAILS		

<p>HAZELNINI TIBANGAY UNIVERSITY ARCHITECT</p>	<p>PROPOSED OPEN UNIVERSITY BUILDING PHASE 1 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET</p>	<p>BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET</p>	<p>LEONARDO T. APILIS ENR/DBM/BENGUET UNIVERSITY DIRECTOR</p>	<p>ATLAN CASALDO SACPA VICE PRESIDENT - ADMINISTRATION AND FINANCE</p>	<p>FELIPE SALANG COMILA PRESIDENT</p>	<p>NO SHOWN REVISION DATE</p>	<p>SHEET NO. A 01/10</p>
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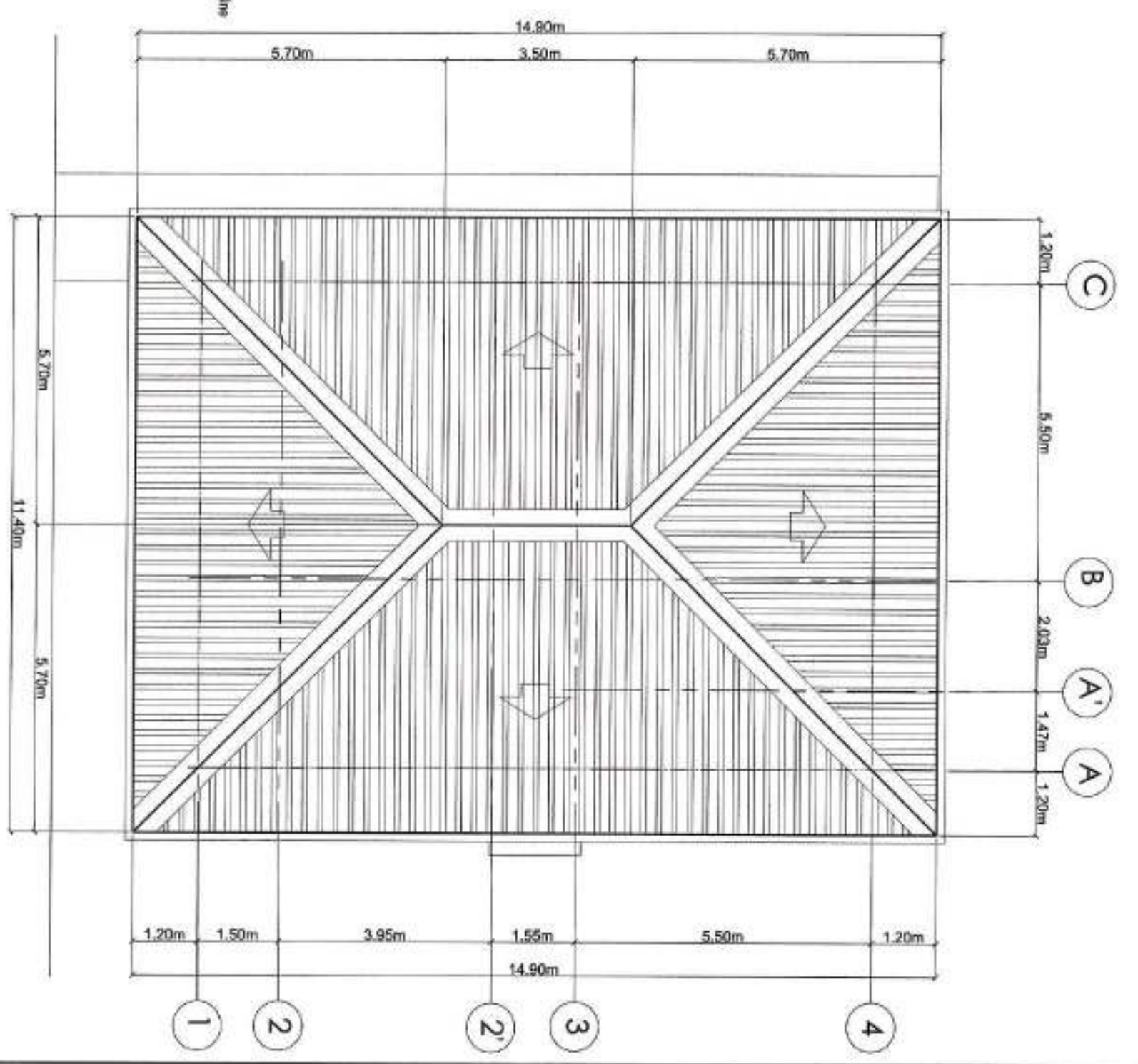
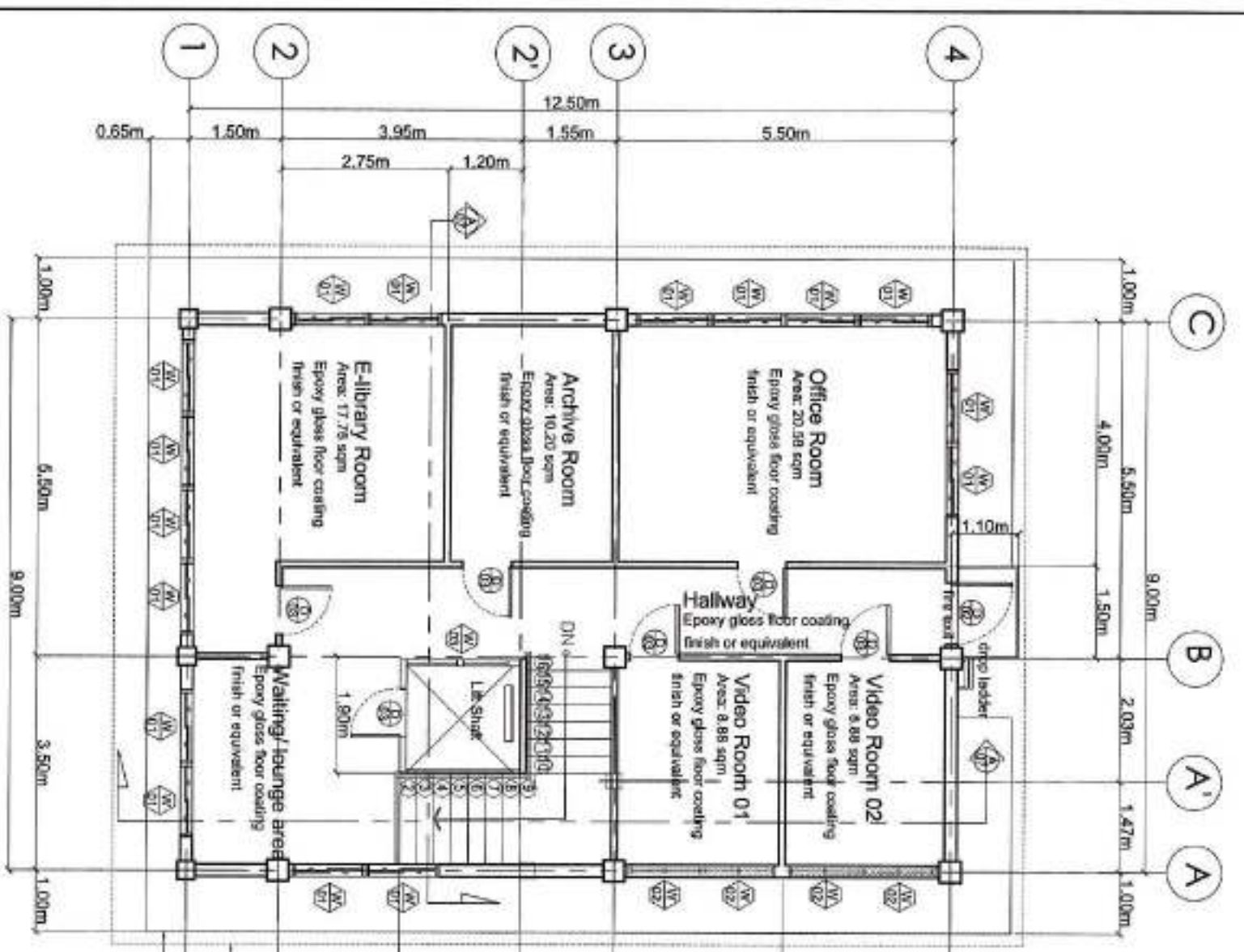
A2 SITE DEVELOPMENT PLAN
01-01 SCALE 1:200 MTS

 HAZELINE N. TIRANGAY UNIVERSITY ARCHITECT	PROJECT NO. 87848 DATE 01/11/2023	PROJECT ASSOCIATION PROPOSED OPEN UNIVERSITY BUILDING PHASE 1 BUNGENG AND COMPOUND LA TRINIDAD, BENGUET	 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	ENGINEER <i>Leonard T. Apilis</i> LEONARD T. APILIS ENRICHED AND OPEN UNIVERSITY DIRECTOR	VICE PRESIDENT - ADMINISTRATION AND FINANCE <i>Allan Casaldo Sacpa</i> ALLAN CASALDO SACPA	PRESIDENT <i>Felipe Salasing Comilla</i> FELIPE SALASING COMILLA	SHEET CONTENT AS-SHOWN REVISION DATE REVISION NO.	SHEET NO. A 0210
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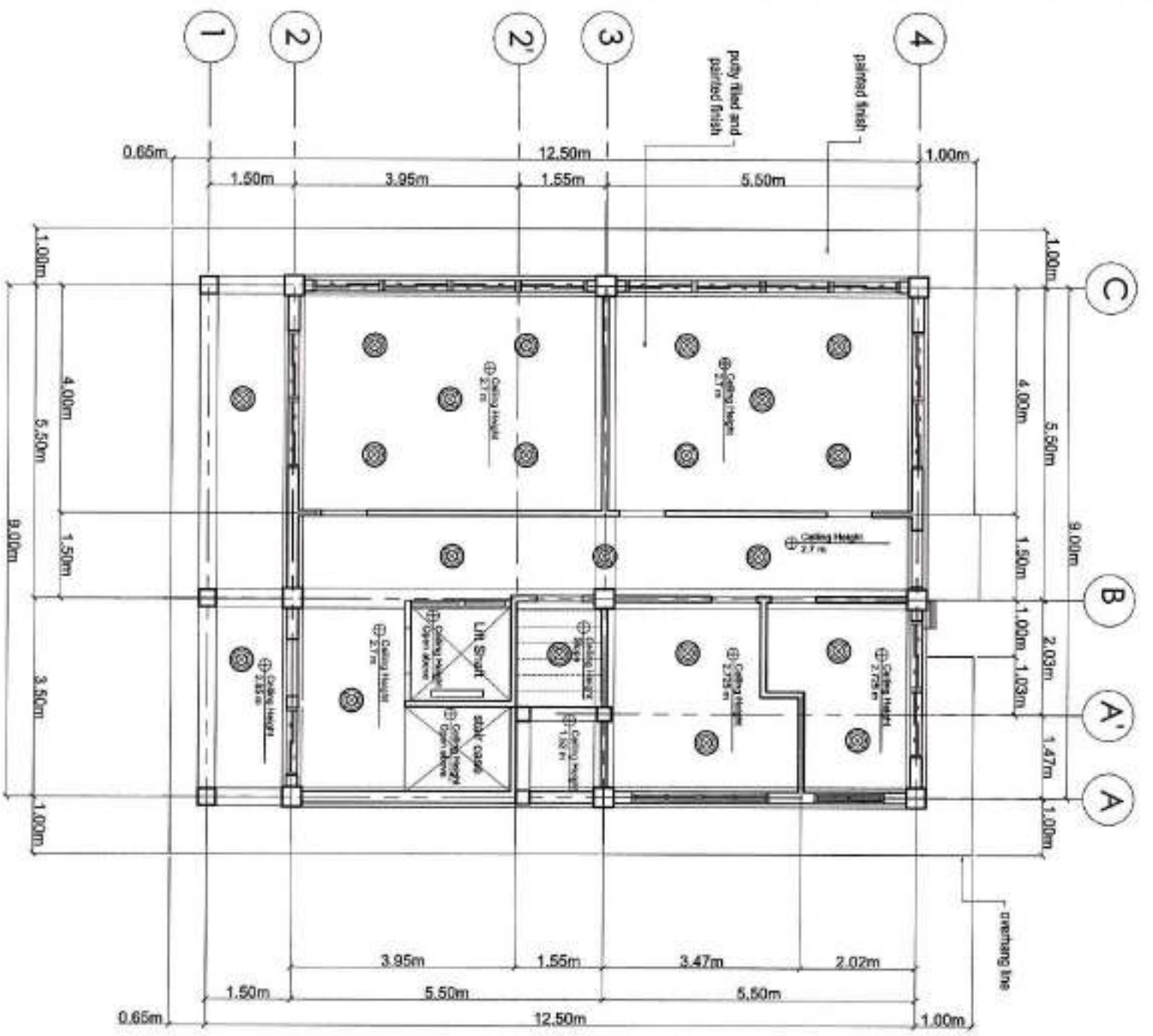


A3
01-01
FIRST FLOOR PLAN
SCALE 1:100 MTS

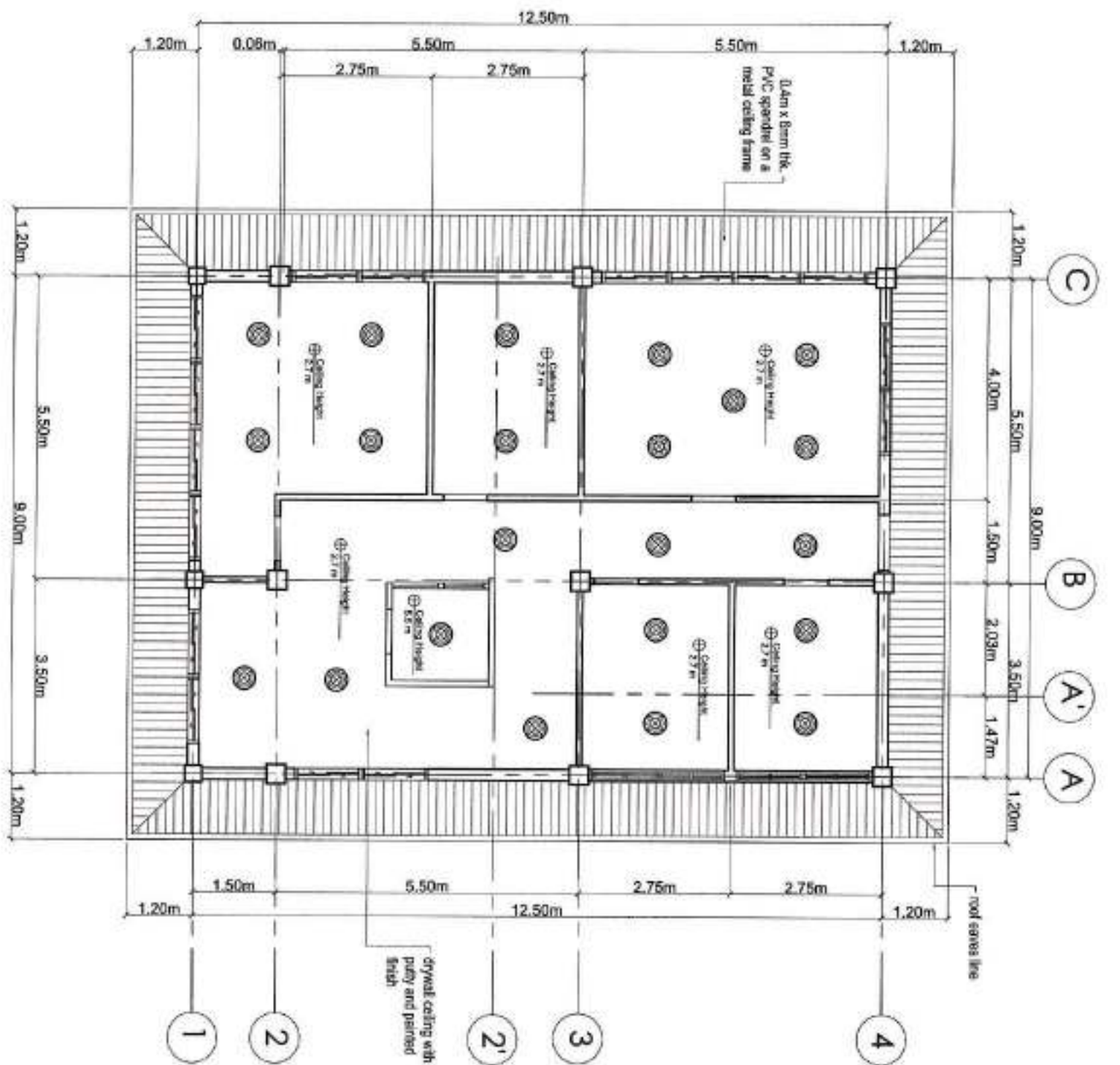
 <p>HAZELINE N. TRIBANGAY UNIVERSITY ARCHITECT</p>	<p>PROJECT NO. 008-00</p>	<p>PROPOSED OPEN UNIVERSITY BUILDING PHASE 1</p>	 <p>BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET</p>	<p>LEONARD T. APILIS</p>	<p>ALLAN CASALDO SACPA</p>	<p>FELIXE SAMAING COMILA</p>	<p>SHEET NO. A</p>
<p>DATE: 01-01-2023</p>	<p>DATE: 01-01-2023</p>	<p>DATE: 01-01-2023</p>	<p>DATE: 01-01-2023</p>	<p>DATE: 01-01-2023</p>	<p>DATE: 01-01-2023</p>	<p>DATE: 01-01-2023</p>	<p>DATE: 01-01-2023</p>
<p>REVISION NO. 0310</p>	<p>REVISION DATE</p>	<p>REVISION NO.</p>	<p>REVISION DATE</p>	<p>REVISION NO.</p>	<p>REVISION DATE</p>	<p>REVISION NO.</p>	<p>REVISION DATE</p>




<p>HAZELDEN TIBANGAY UNIVERSITY ARCHITECT</p>	<p>PROPOSED OPEN UNIVERSITY BUILDING PHASE 1</p>	<p>BENGUET STATE UNIVERSITY</p>	<p>LEONARD T. APILIS</p>	<p>ALLAN CASALDO-SAGA</p>	<p>FELIXE SALANG COMILA</p>	<p>AS-SHOWN</p>	<p>04/10</p>
<p>PROJECT NO. 00348</p>	<p>PROJECT LOCATION</p>	<p>LA TRINIDAD, BENGUET</p>	<p>END USER / BUI OFFIC: UNIVERSITY DIRECTOR</p>	<p>VICE PRESIDENT: ADMINISTRATION AND FINANCE</p>	<p>RESIDENT</p>	<p>REVISION DATE</p>	<p>SHEET NO.</p>
<p>ISS. BY: CAD BY: BR005-SEPTEMBER 2023</p>	<p>PROJECT LOCATION</p>	<p>LA TRINIDAD, BENGUET</p>	<p>END USER / BUI OFFIC: UNIVERSITY DIRECTOR</p>	<p>VICE PRESIDENT: ADMINISTRATION AND FINANCE</p>	<p>RESIDENT</p>	<p>REVISION DATE</p>	<p>SHEET NO.</p>

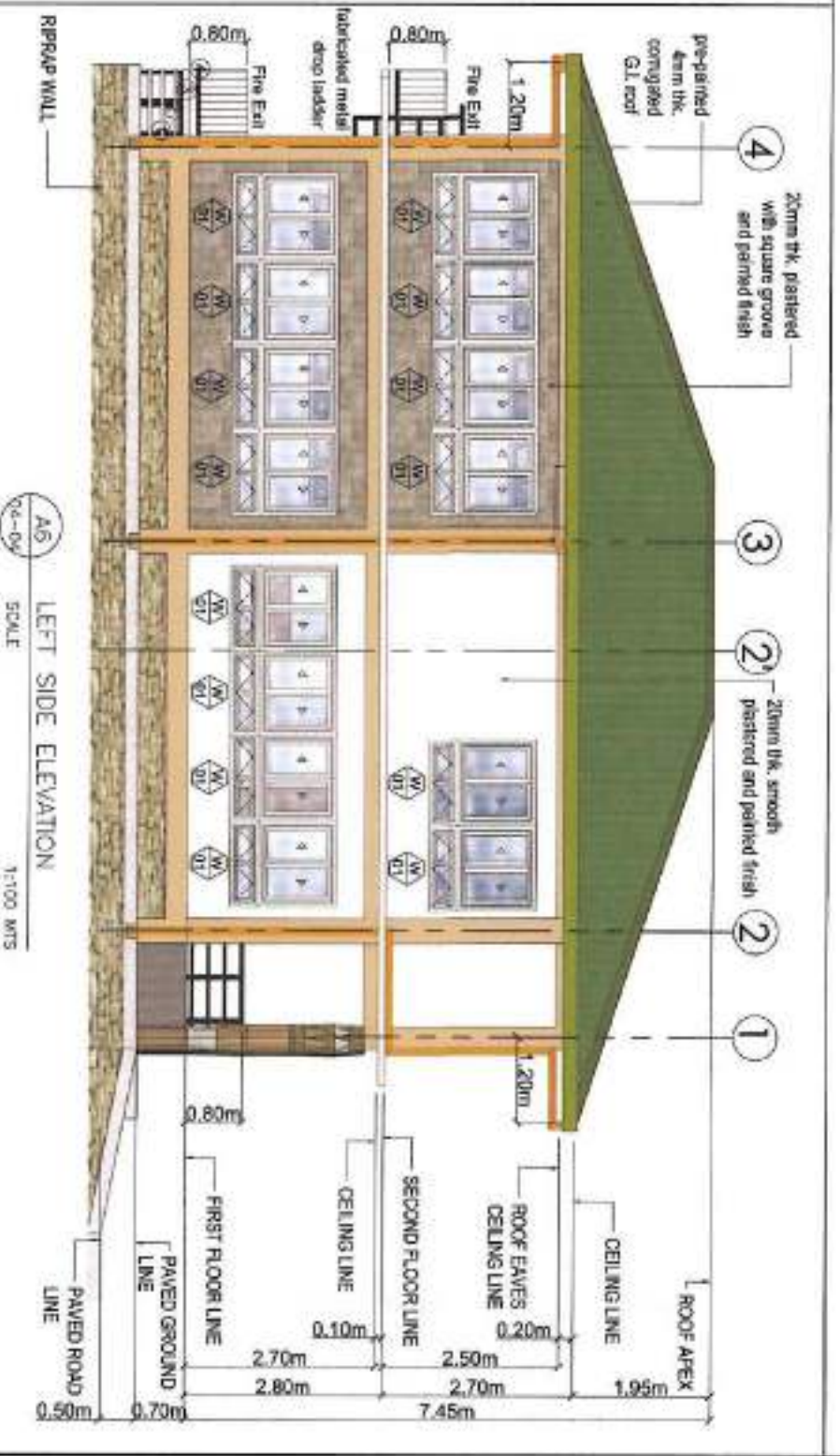
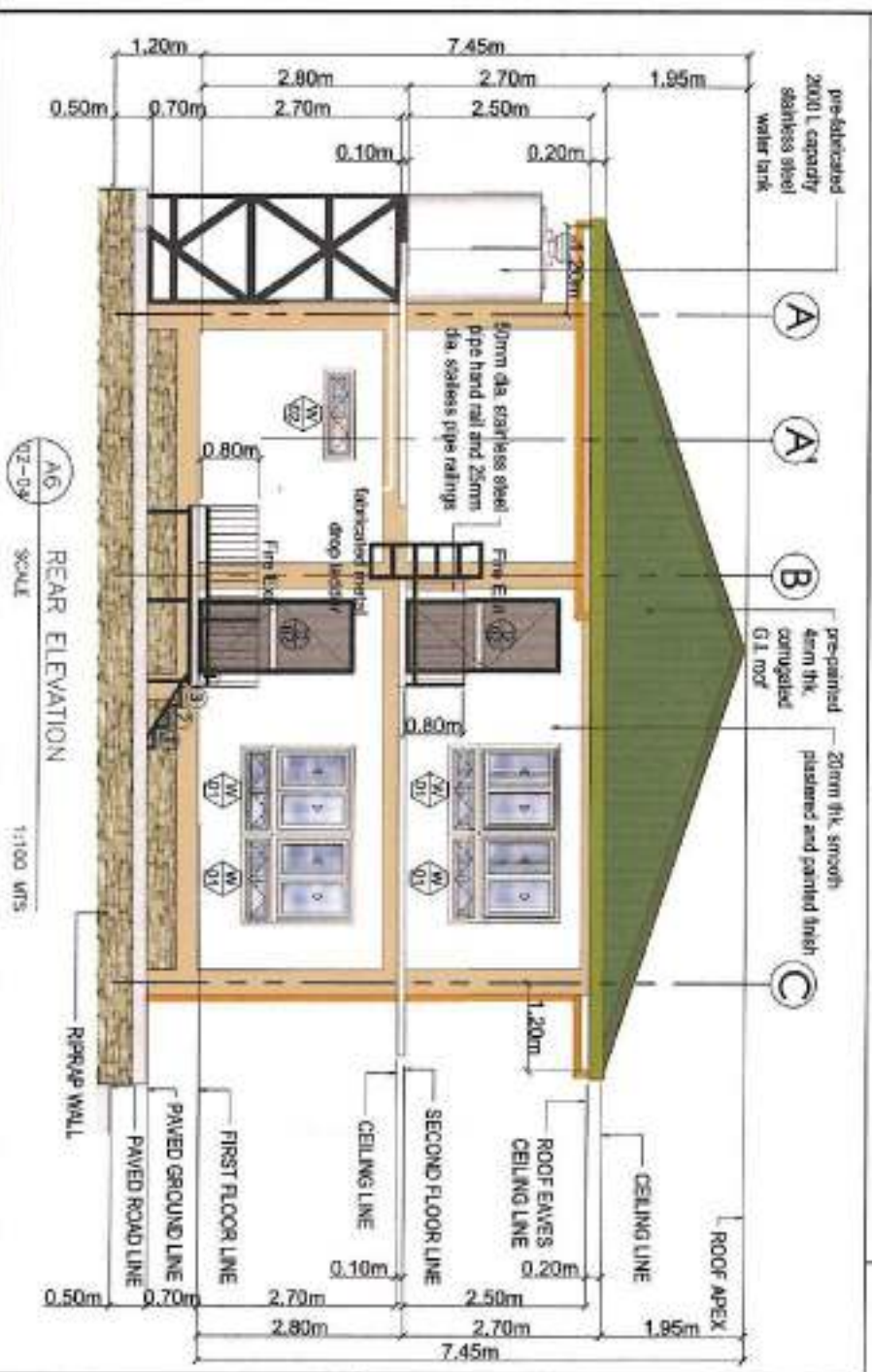
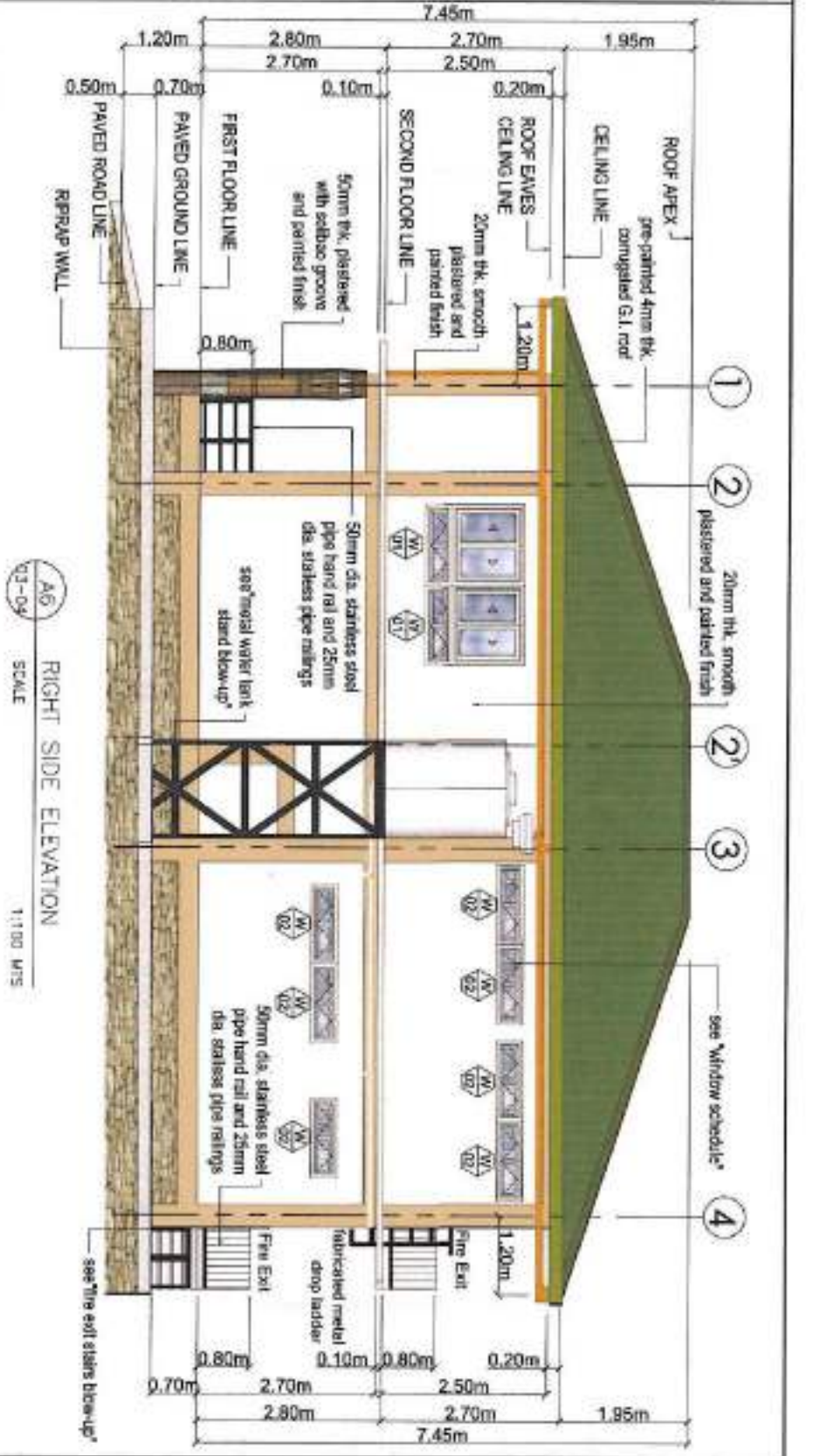
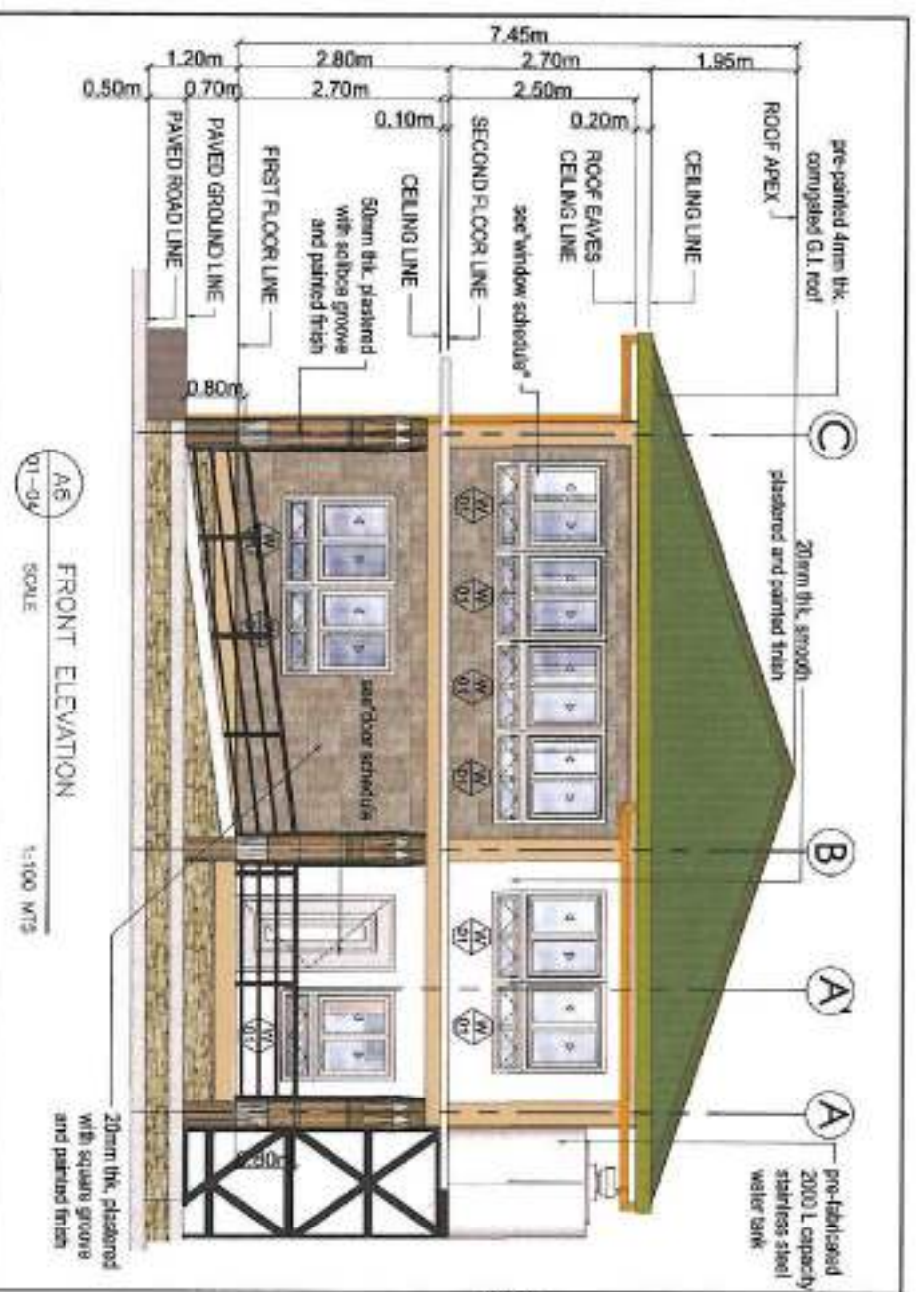


A5 01-01 1ST FLOOR REFLECTED PLAN SCALE 1:100 MTS

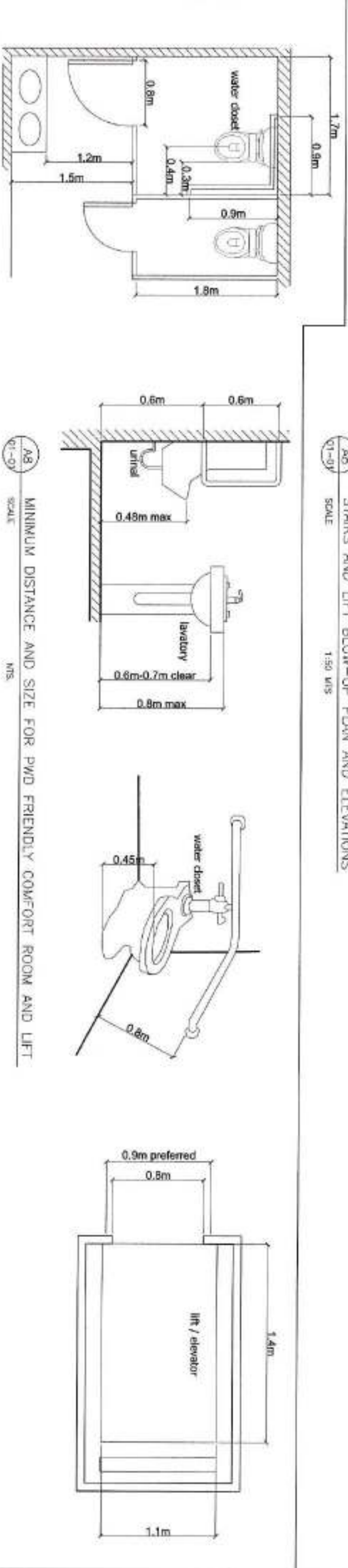
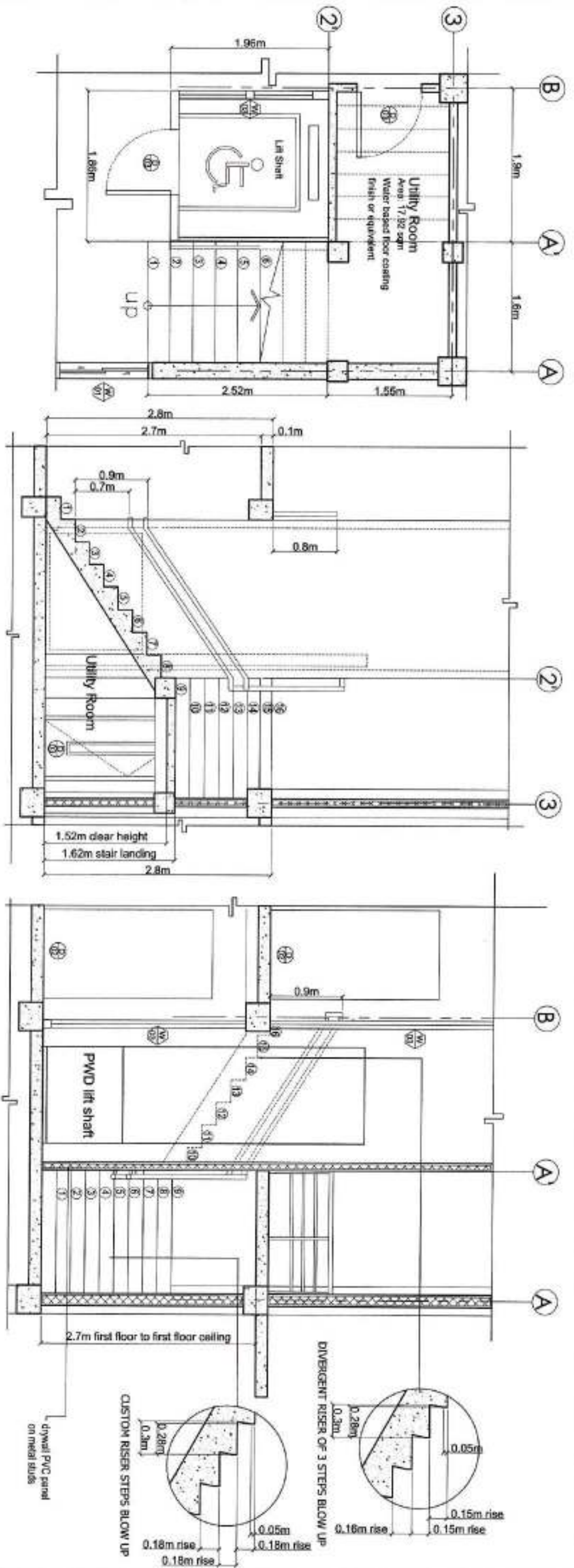


A5 01-01 2ND FLOOR REFLECTED PLAN SCALE 1:100 MTS

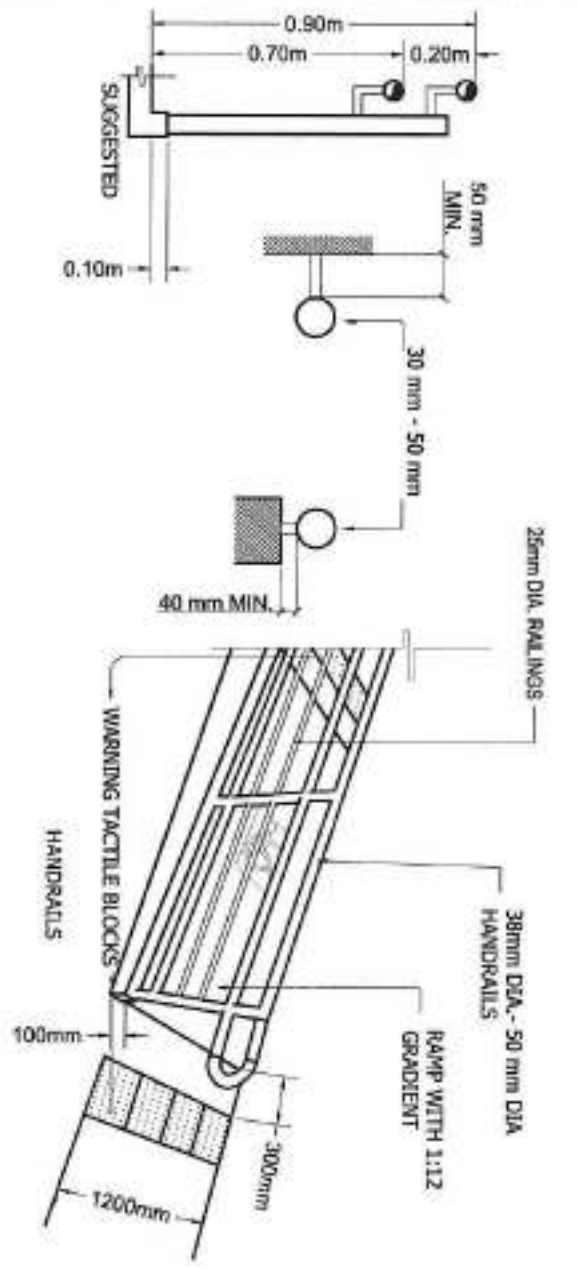
 <p>HAZELINE N. TRIBANGAY UNIVERSITY ARCHITECT</p>	<p>PROJECT No. 03048 UNIVERSITY</p>	<p>DATE: 01-01-2023</p>	 <p>BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET</p>	<p>OWNER</p>	<p>PRODUCER / 2ND FLOOR UNIVERSITY DIRECTOR</p>	<p>VPCH PRESIDENT - ADMINISTRATION AND FINANCE</p>	<p>SHEET NO. 05110</p>



<p>HAZELINE N. TIRANGAY UNIVERSITY ARCHITECT VALLEY</p>	<p>SCALE No. PROJECT No.</p>	<p>CAD BY EROD-SEPTEMBER 2023</p>	<p>PROPOSED OPEN UNIVERSITY BUILDING PHASE 1 SCHOOL'S BLDG. COMPLEX LA TRINIDAD, BENGUET</p>	<p>BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET</p>	<p>LEONARD T. APILIS LEONARD'S ARTS</p>	<p>ALLAN CASALDO SACPA VICE PRESIDENT-ADMINISTRATION AND FINANCE</p>	<p>FELICE SALANG COMILA PRESIDENT</p>	<p>SHEET CONTENT AS-SHOWN REVISION DATE REVISION NO.</p>	<p>SHEET NO. 06110</p>
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<p>HAZELIN N. TIBANGAY UNIVERSITY ARCHITECT</p>	<p>PROJECT / LOCATION</p>	<p>BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET</p>	<p>OWNER</p>	<p>END USER / BENEFITARY UNIVERSITY DIRECTOR</p>	<p>VICE PRESIDENT - ADMINISTRATION AND FINANCE</p>	<p>SHEET CONTENT</p>	<p>SHEET NO.</p>
<p>PROJ. No. 0000</p>	<p>DATE</p>	<p>PROJ. No.</p>	<p>PROJ. No.</p>	<p>PROJ. No.</p>	<p>PROJ. No.</p>	<p>AS SHOWN</p>	<p>08/10</p>
<p>PROPOSED OPEN UNIVERSITY BUILDING PHASE I</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>REVISION DATE</p>	<p>REVISION NO.</p>
<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>REVISION DATE</p>	<p>REVISION NO.</p>
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<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>REVISION DATE</p>	<p>REVISION NO.</p>
<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>REVISION DATE</p>	<p>REVISION NO.</p>
<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>PROJ. No. 0000</p>	<p>REVISION DATE</p>	<p>REVISION NO.</p>



A9 01-01 EASY CRASP HANDRAIL DESIGN
SCALE: 1:50 MTS.

Description	Location	Quantity
Fabricated 3/4" THK. PVC board partition panel fixed on a metal frame w/ complete accessories	1 - Sets male restroom	1
Fabricated 3/4" THK. PVC board partition panel fixed on a metal frame w/ complete accessories	1 - Sets female restroom	1
PWD size Cubicle / common toilet cubicle		1
Common size Cubicles		1

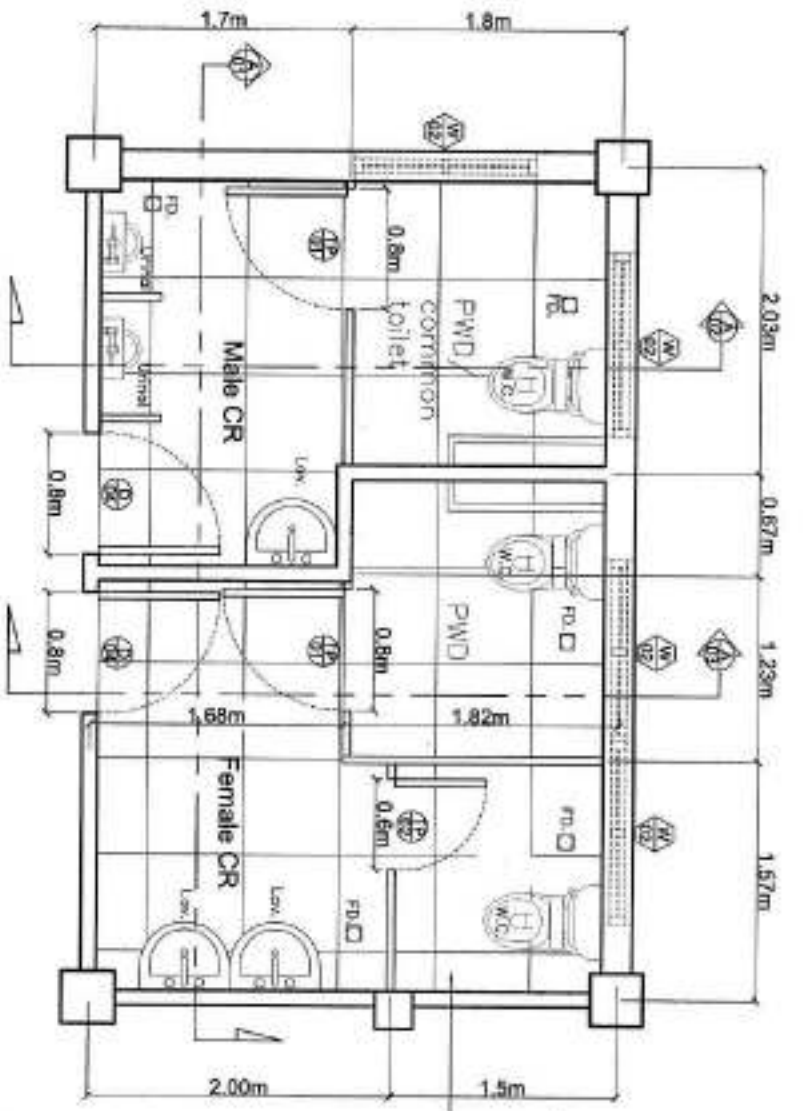
A9 01-02 MALE CR AND FEMALE CR CUBICLES SCHEDULE
SCALE: 1:50 MTS.

WINDOW/ DOOR MARK	DESCRIPTION	SETS / LOCATION	PLAN	ELEVATION
W 01	40mm x 100mm aluminum powder coated frame sliding window with bottom transom awning window, 6mm thk. clear glass w/ complete hardware and accessories.	29 SETS Location: Offices, lobby, conference room, E-library		
W 02	40mm x 100mm aluminum powder coated frame awning window, 6mm thk. clear glass w/ complete hardware and accessories.	8 SETS Location: Comfort rooms and video rooms		
W 03	40mm x 100mm aluminum powder coated frame fixed window, 10mm thk. clear glass w/ complete hardware and accessories.	2 SETS Location: Lift		
D 01	Pre-fabricated swing type steel door on a metal door jamb w/ complete hardware and accessories.	1 SET Location: Main entrance		
D 02	Factory manufactured fire rated fire exit steel door with jamb and complete hardware and accessories.	2 SET Location: Fire exit		
D 03	Factory manufactured swing type hollow core PVC door with door jamb and complete hardware and accessories.	2 SET Location: Comfort room		
D 04	Pre-fabricated swing type wood door on a wood door jamb with 6mm thk. clear glass vision panel, complete hardware and accessories.	11 SET Location: Interior rooms		

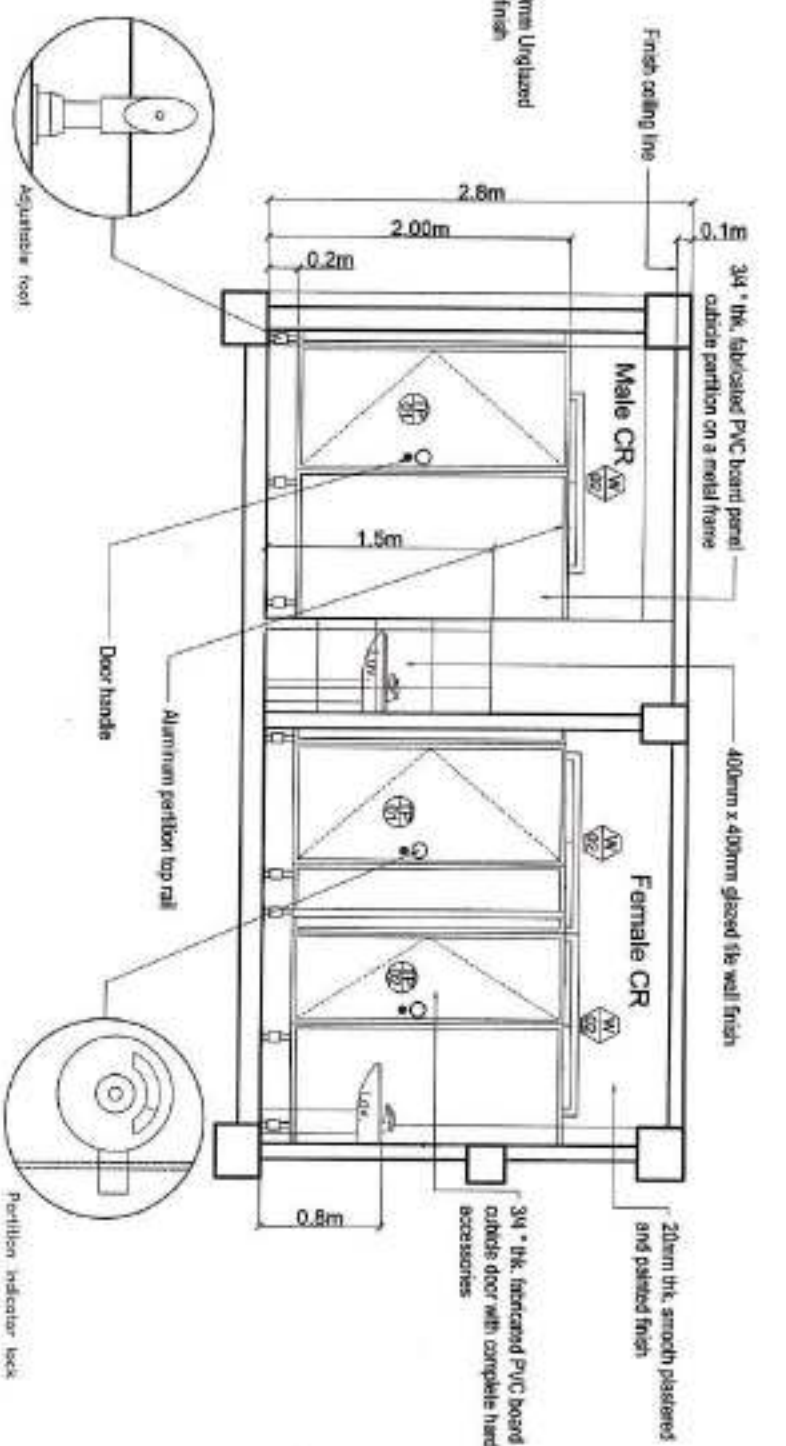
A9 01-03 WINDOWS SCHEDULE
SCALE: 1:50 MTS.

A9 01-04 DOORS SCHEDULE
SCALE: 1:50 MTS.

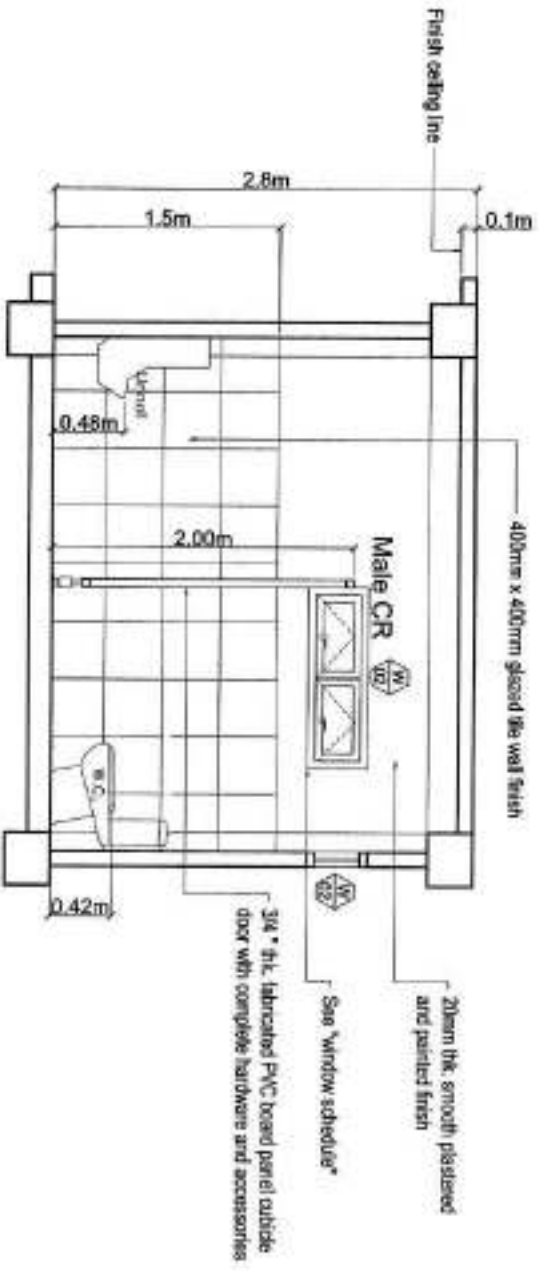
<p>HAZELINE N. TIBANGAY UNIVERSITY ARCHITECT</p>	<p>BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET</p>	<p>LEONARD T. APILIS ENR/UPM/REG/UPEN/UNIVERSITY DIRECTOR</p>	<p>ALLAN CASABDO SACPA VPS REGIONAL ADMINISTRATION AND FINANCE</p>	<p>FELICE SALASING COMILA PRESIDENT</p>	<p>AS SHIDIAN BEASION DATE</p>
<p>PROPOSED OPEN UNIVERSITY BUILDING PHASE 1 BICALALAN COMPOUND LA TRINIDAD, BENGUET</p>	<p>BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET</p>	<p>LEONARD T. APILIS ENR/UPM/REG/UPEN/UNIVERSITY DIRECTOR</p>	<p>ALLAN CASABDO SACPA VPS REGIONAL ADMINISTRATION AND FINANCE</p>	<p>FELICE SALASING COMILA PRESIDENT</p>	<p>AS SHIDIAN BEASION DATE</p>



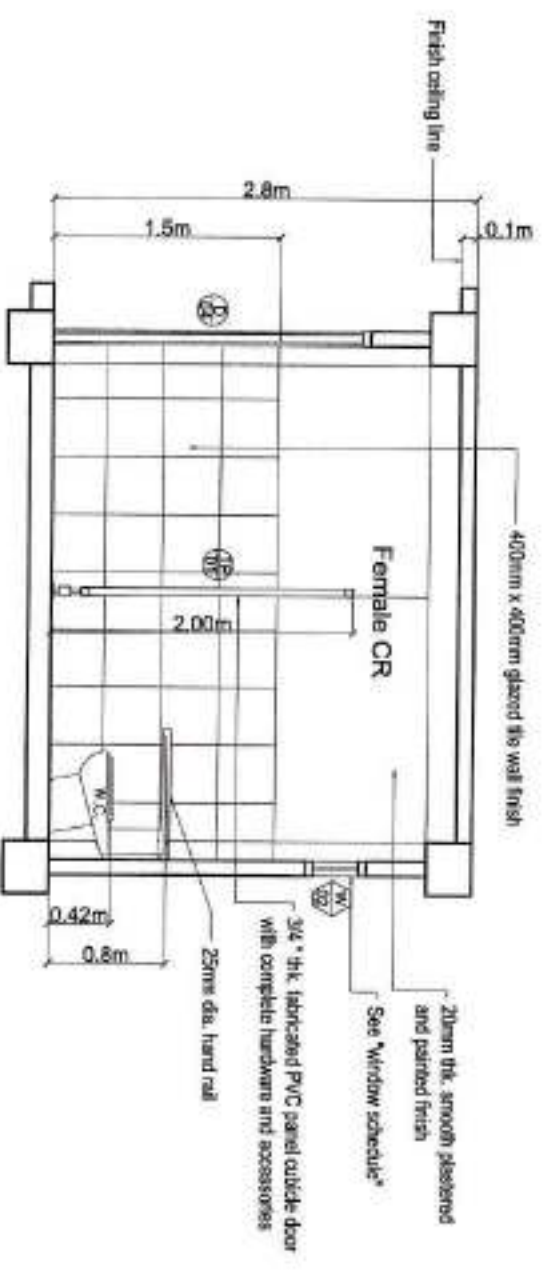
A9-01 CR BLOW - UP PLAN
SCALE 1:50 MTS



A9-03 CR BLOW - UP LONGITUDINAL SECTION
SCALE 1:50 MTS



A9-02 MALE CR BLOW - UP CROSS SECTION
SCALE 1:50 MTS



A9-03 FEMALE CR BLOW - UP CROSS SECTION
SCALE 1:50 MTS

PROJECT NO. 02-03 SHEET NO. 10/10	CLIENT BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	PROJECT / LOCATION PROPOSED OPEN UNIVERSITY BUILDING PHASE 1 LA TRINIDAD, BENGUET	OWNER BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	END USER / END USER UNIVERSITY DIRECTOR LEONARD T. APILIS	VICE PRESIDENT - ADMINISTRATION AND FINANCE ALLAN CASILDO SACRA	RESIDENT EDITH SALAIN COMILA	SHEET CONTENT AS SHOWN	SHEET NO. 10/10	DESIGN NO.

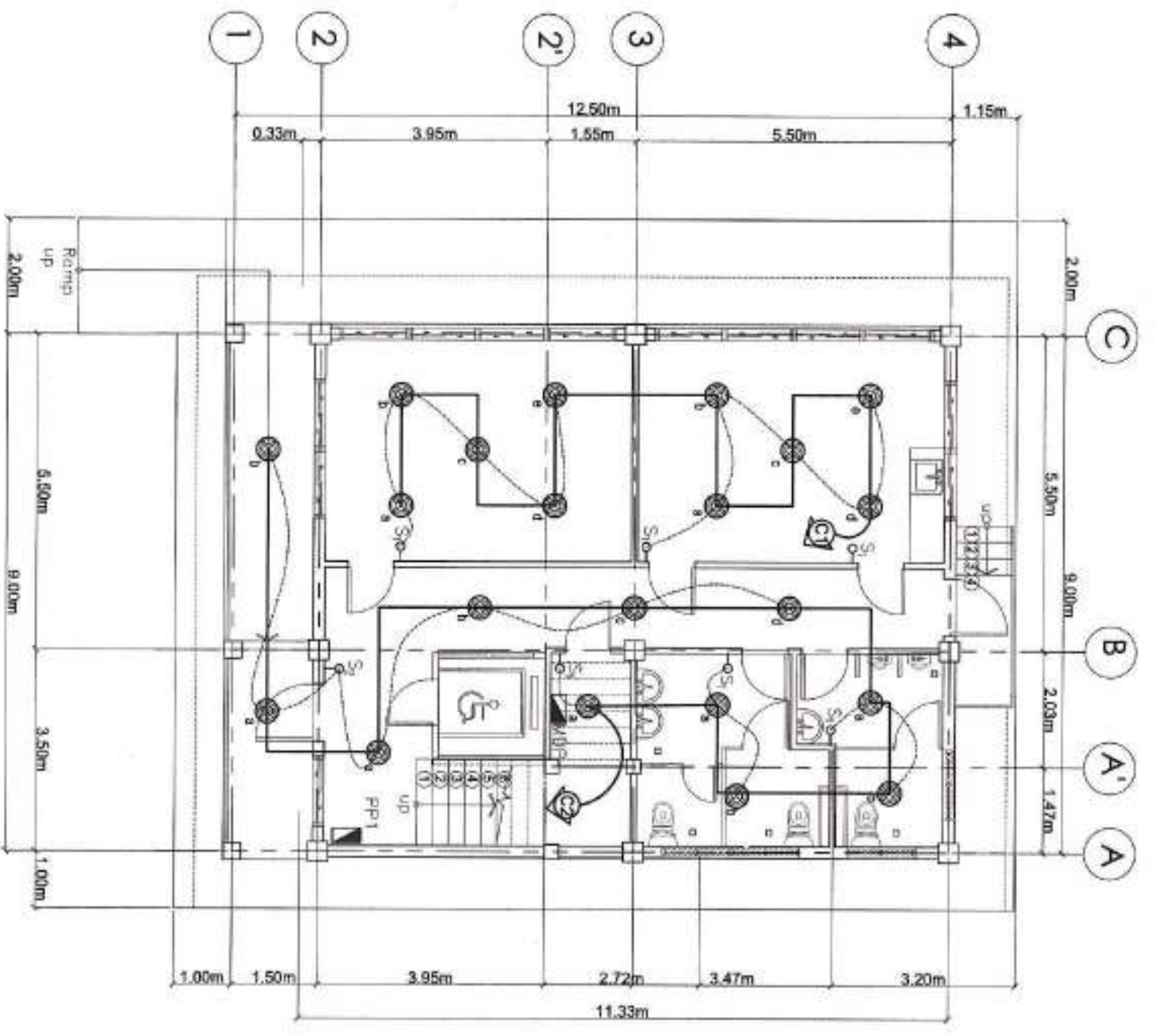
GENERAL NOTES:

1. ALL ELECTRICAL WORKS SHALL CONFORM TO THE LATEST EDITION OF PHILIPPINE ELECTRICAL CODE, TO THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED AND THE REQUIREMENTS OF LOCAL UTILITY COMPANIES.
 2. WIRING METHODS SHALL BE AS FOLLOWS
 - a. MAIN SERVICE ENTRANCE RIGID STEEL CONDUIT (RSC)
 - b. RACEWAYS SURFACE MOUNTED IN CONCRETE WALL AND EMBEDDED IN CONCRETE FLOORING POLYVINYL CHLORIDE (PVC)
 - c. RACEWAYS NOT EMBEDDED IN CONCRETE ELECTRICAL METALLIC TUBING (EMT)
 3. SERVICE VOLTAGE ENTERING THE STRUCTURE SHALL BE 220 VOLTS SINGLE PHASE TWO WIRE SYSTEM.
 4. MINIMUM SIZE OF WIRE AND OF CONDUIT SHALL BE 2.0 mm Ø THIN (Ø 14 AWG) AND 13mm (1/2") NOMINAL DIAMETER RESPECTIVELY, UNLESS OTHERWISE SPECIFIED ON PLANS.
 5. NO BRANCH CIRCUIT WIRING IN LIGHTING AND POWER SHALL HAVE A LOAD MORE THAN ONE (1) OF ITS RATING.
 6. ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED TYPE APPROPRIATE FOR BOTH LOCATION AND INTENDED USE.
 7. UNLESS OTHERWISE SPECIFIED FULLBOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY, ALTHOUGH SUCH BOXES ARE NOT INDICATED ON PLANS.
 8. FOR EACH SPARE CIRCUIT IN PANEL BOARD, PROVIDE AN EMPTY CONDUIT 20mm Ø [5/4"] DIAMETER TERMINATING TO A COVERED SQUARE BOX.
 9. ALL LOADS SHALL BE PROPERLY AND ADEQUATELY GROUNDED.
 10. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE AS LOCATION AND PURPOSE.
 11. KITCHEN PLANS SHALL CONFORM ON THE ACTUAL LOCATION AND DIMENSION PRIOR TO ROUGH-IN OF CONDUIT AND PIPES.
 12. ALL INSTALLATIONS AND WIRING SHALL BE CONCEALED FROM VIEW AND SHALL BE ENCASED IN POLYVINYL CHLORIDE (PVC) CONDUITS OR ELECTRICAL METALLIC TUBING (EMT) OR RIGID STEEL CONDUITS (RSC).
 13. ALL JUNCTION BOXES, DISCONNECTS, ETC. SHALL BE INSTALLED SO AS NOT TO INTERFERE WITH EQUIPMENT PLACEMENTS.
 14. ALL 20-AMPERES CIRCUIT HOMERUN TO PANEL BOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.0mm Ø THIN (Ø 10), UNLESS OTHERWISE SPECIFIED ON PLANS.
 15. LIGHT CONTROL SWITCHES SHALL BE RATED 10A 200V AND SHALL CARRY A LOAD GREATER THAN 50A.
 16. AN EMPTY 3/4" DIA. RISER TERMINATING IN A 2" DEEP BY 4" OCTAGONAL BOX ABOVE CEILING SHALL BE PROVIDED TO ACCOMMODATE THE SPARE CIRCUIT IN PANEL BOARD.
 17. ALL WORKS SHALL BE DONE WITH THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR A REGISTERED MASTER ELECTRICIAN.
 18. OUTLET BOXES SHALL BE AS FOLLOWS
 - A. LIGHT OUTLETS 1-1/2" DEEP BY 4" OCTAGONAL BOX WITH ONE OR TWO WAY ENTRIES
 - B. RECEPTACLES 2-1/8" DEEP 2 3/4" UTILITY BOX ONE GANG WITH RAISED PLASTIC COVER
 19. MOUNTING HEIGHTS SHALL BE AS FOLLOWS
 - a. LIGHT SWITCHES 1370mm ABOVE FLOOR FINISH (A.F.F.)
 - b. RECEPTACLES 300mm (A.F.F.)
 - c. COUNTER HEIGHT OUTLET 1300mm (A.F.F.)
 - d. TV/ TELEPHONE OUTLET 300mm (A.F.F.)
 - e. DISCONNECT 1370mm (A.F.F.)
 1. PANEL BOARDS 1700mm (A.F.F.)
 2. OTHERS REFER TO KITCHEN PLANS
1. ALL ELECTRICAL WORKS SHALL CONFORM WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENGINEERING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
 2. THE ELECTRICAL SERVICE POWER SHALL BE 1-PHASE, 3-WIRE, 230V AC, 60Hz.
 3. WIRING METHOD SHALL BE AS FOLLOWS:
RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED IN THE PLAN.
 4. ALL WIRES SHALL COPPER AND THERMOPLASTIC INSULATED TYPE "THIN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUNS SHALL BE 3.0mm² AND INSULATED FOR 600VOLTS, UMC WSG, ALL CONDUCTORS SHALL BE COLOR-CODED. SMALLEST RADIANT SHALL BE 15mm² (NO.14AWG).
 5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE.
 6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED FOR THE PARTICULAR LOCATION AND USAGE.
 7. EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
 8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
a. LIGHT SWITCH - 1.20M ABOVE FINISH FLOOR
b. CONVENIENCE OUTLET - 0.30M ABOVE FINISH FLOOR
 9. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

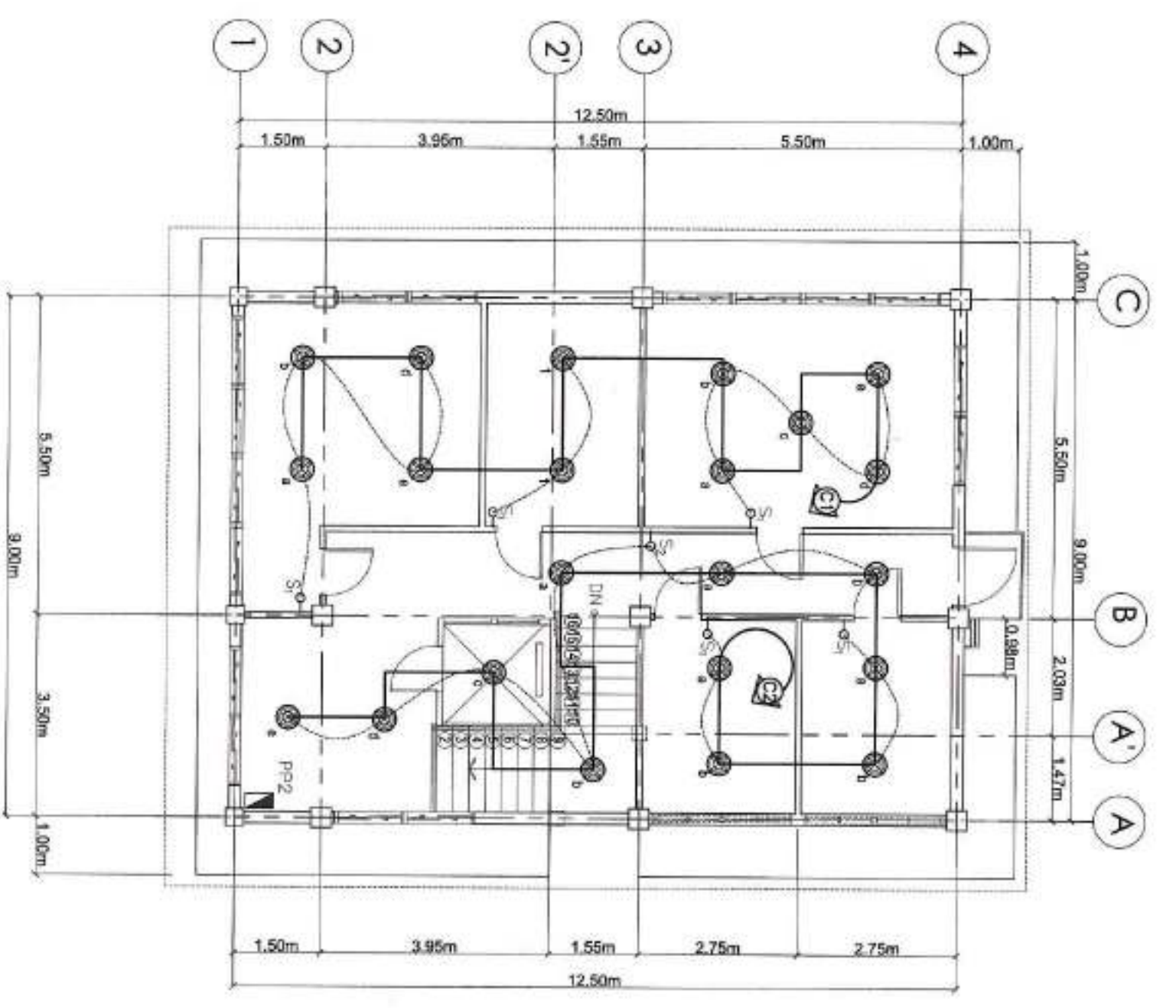
ELECTRICAL LEGENDS:

SYMBOLS	DESCRIPTION
	LIGHTING OUTLET PINLIGHT
	LIGHT SWITCH INDICATOR
	ELECTRICAL LINE
	SINGLE POLE WALL SWITCH
	DUPLEX SWITCH, 2 SINGLE POLE SWITCHES ON ONE-GANG SWITCH PLATE
	CKT. BREAKER, RATING AS INDICATED
	DUPLEX CONVENIENCE OUTLET
	CIRCUIT NO. 1
	CIRCUIT NO. 2
	DISTRIBUTION PANEL BOARD 1ST FLOOR
	DISTRIBUTION PANEL BOARD 2ND FLOOR
	HOMERUN DIRECT TO PANELBOARD
	SERVICE METER
	SERVICE ENTRANCE
	MAIN DISTRIBUTION PANEL BOARD



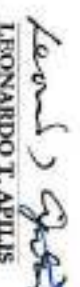


<p>HAZELLINE N. TIBANGAY UNIVERSITY ARCHITECT</p>	<p>ELECTRICAL ENGINEER</p>	<p>2023-SEPTEMBER 2023</p>	<p>PROPOSED OPEN UNIVERSITY BUILDING PHASE I SUNLAYS BLDG. (COMPOUND) CATHEDRAL BLDG. ET AL. PROJECT / LOCATION</p>	<p>BENGUET STATE UNIVERSITY LA TRINIDAD, KENKENT CITY</p>	<p>LEONARDO T. APILIS RND USAB/ BND OPEN UNIVERSITY DIRECTOR</p>	<p>ALLAN CASALDO SACPA VICE PRESIDENT- ADMINISTRATION AND FINANCE</p>	<p>FELIPE MALING COMILA PRESIDENT</p>	<p>SHEET CONTENT: AS SHOWN REVISION DATE: REVISION NO.:</p>	<p>SHEET NO. E 0105</p>
								<p>DATE: 2023-SEPTEMBER 2023</p>	<p>PROJECT / LOCATION</p>

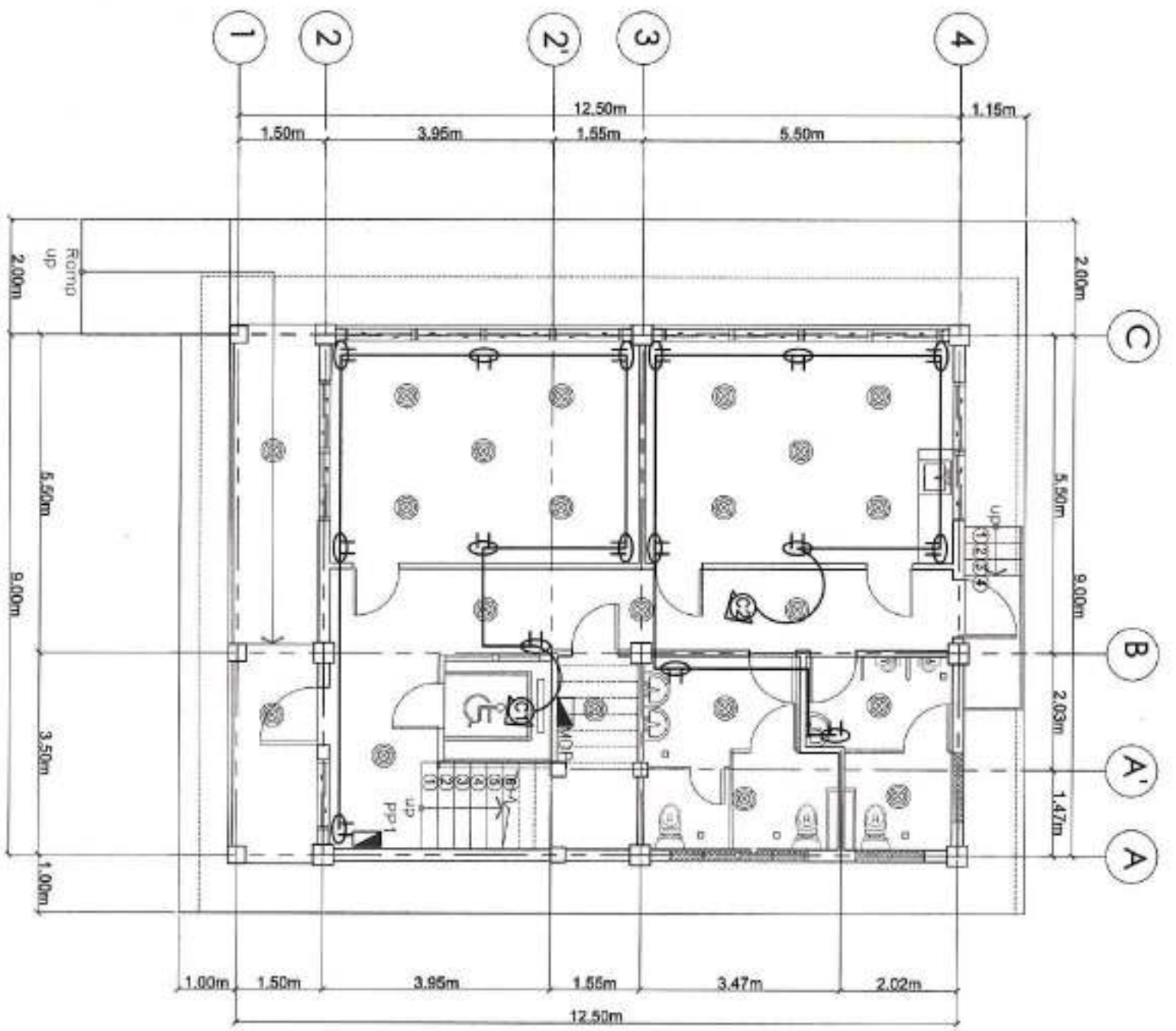


E2-01-02
 1ST FLOOR LIGHTING OUTLET LAYOUT
 SCALE 1:100 MTS

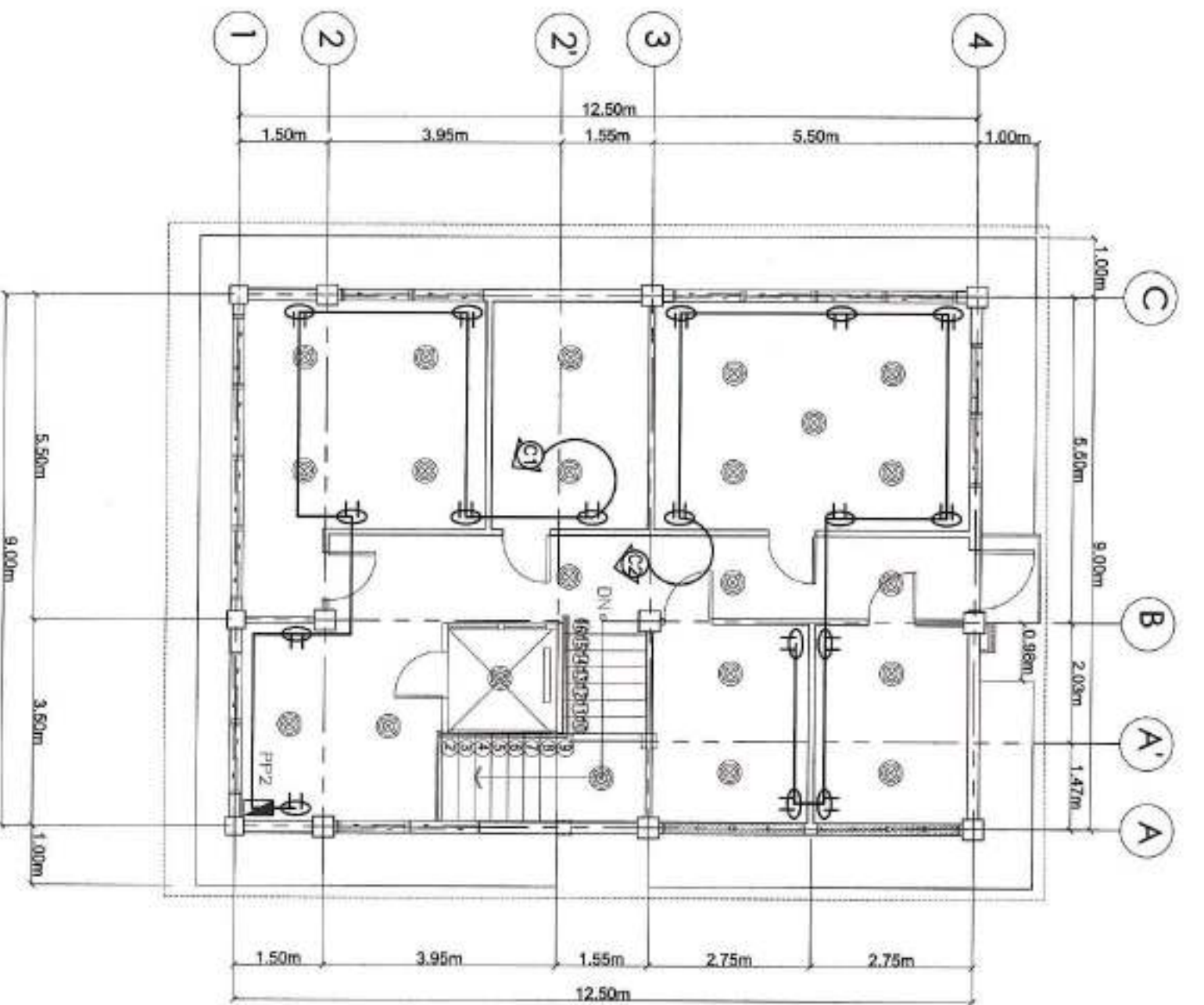


E2-02
 2ND FLOOR LIGHTING OUTLET LAYOUT
 SCALE 1:100 MTS



 HAZELJUNIN TIRANGAY UNIVERSITY ARCHITECT REGISTERED ARCHITECT REG. NO. 0288/01 ASSIGNED	REG. LIC. NO. ELECTRICAL ENGINEER REGISTERED REG. NO.	PROPOSED OPEN UNIVERSITY BUILDING PHASE 1 ANJUNGAH BERGEMPONDOK LA TIRANGAY, BENGUET	 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	OWNER	 LEONARDO T. APILIS ASST. DIR. / REG. CHIEF, UNIVERSITY DIRECTOR	 ALLAN CASALDO SACPA VICE-PRESIDENT, ADMINISTRATION AND FINANCE	 REGINO PRESIDENT	SHEET CONTENT AS SHOWN	SHEET NO. E 02/05
								REGISTERED DATE EXPIRES NO.	



E3 01-02 1ST FLOOR CONVENIENCE OUTLET LAYOUT
SCALE 1:100 MTS



E3 02-02 2ND FLOOR CONVENIENCE OUTLET LAYOUT
SCALE 1:100 MTS

 HAZELIN N. TIBANGAY UNIVERSITY ARCHITECT VIGILANTE REG. NO. 12345	REG. NO. 12345 ELECTRICAL ENGINEER REGISTERED REG. NO. 67890	CAD BY: ENCO-SEPTEMBER 2023	PROPOSED OPEN UNIVERSITY BUILDING PHASE 1 MAUNSAH BUL. COMPOUND LA TRINIDAD, BENGUET	 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	END USER / OPEN UNIVERSITY DIRECTOR LEONARDO T. APILIS	VICE PRESIDENT, ADMINISTRATION AND FINANCE ALLAN CASALDO SACPA	SHEET CONTAINING AS SHOWN	SHEET NO. E

ELECTRICAL LOAD TABULATION

PP1 FIRST FLOOR LEVEL

CKT. NO.	DESCRIPTION	L.O.	QTY.		VOLTS	WATTS	VA	AMPERE	TRIP BEAKER	P	KAIC	WIRE SIZE	CONDUIT SIZE
			C.O.	S1 S2									
CKT. 01	LED PIN LIGHTING	10		2	230V	100	1000 W	4.35 AMP	15 AT	2	10	2-2.0mm ² THHN	15mm Ø Conduit PVC
CKT. 02	LED PIN LIGHTING	11		3	230V	100	1100 W	4.78 AMP	15 AT	2	10	2-2.0mm ² THHN	15mm Ø Conduit PVC
CKT. 03	DUPLEX CONVENIENCE OUTLET			8	230V	180	1440 W	6.26 AMP	20 AT	2	10	2-3.5mm ² THHN	15mm Ø Conduit PVC
CKT. 04	DUPLEX CONVENIENCE OUTLET			8	230V	180	1440 W	6.26 AMP	20 AT	2	10	2-3.5mm ² THHN	15mm Ø Conduit PVC
CKT. 05	SPARE				230V								
CKT. 06	SPARE				230V								
CKT. 07	SPARE				230V								
CKT. 08	SPARE				230V								
SUB-TOTAL		21	16	5			4980 W	21.65 AMP	40 AT			2-14 mm ²	25mm Ø Conduit PVC

PP2 SECOND FLOOR LEVEL

CKT. NO.	DESCRIPTION	L.O.	QTY.		VOLTS	WATTS	VA	AMPERE	TRIP BEAKER	P	KAIC	WIRE SIZE	CONDUIT SIZE
			C.O.	S1 S2									
CKT. 01	LED PIN LIGHTING	11		3	230V	100	1100 W	4.78 AMP	15 AT	2	10	2-2.0mm ² THHN	15mm Ø Conduit PVC
CKT. 02	LED PIN LIGHTING	11		2	230V	100	1100 W	4.78 AMP	15 AT	2	10	2-2.0mm ² THHN	15mm Ø Conduit PVC
CKT. 03	DUPLEX CONVENIENCE OUTLET			7	230V	180	1260 W	5.47 AMP	20 AT	2	10	2-3.5mm ² THHN	15mm Ø Conduit PVC
CKT. 04	DUPLEX CONVENIENCE OUTLET			10	230V	180	1800 W	7.82 AMP	20 AT	2	10	2-3.5mm ² THHN	15mm Ø Conduit PVC
CKT. 05	SPARE				230V								
CKT. 06	SPARE				230V								
CKT. 07	SPARE				230V								
CKT. 08	SPARE				230V								
SUB-TOTAL		22	17	5			5260 W	22.85 AMP				2-14 mm ² THHN	25mm Ø Conduit PVC
TOTAL		43	33	10			10240 W	44.50 AMP	40 AT			2-50 mm ² THHN	25mm Ø Conduit PVC

MOUNTING: SURFACE MOUNTED



SYSTEM 230 VOLTS, SINGLE PHASE, 2-WIRE + G, 60 HZ

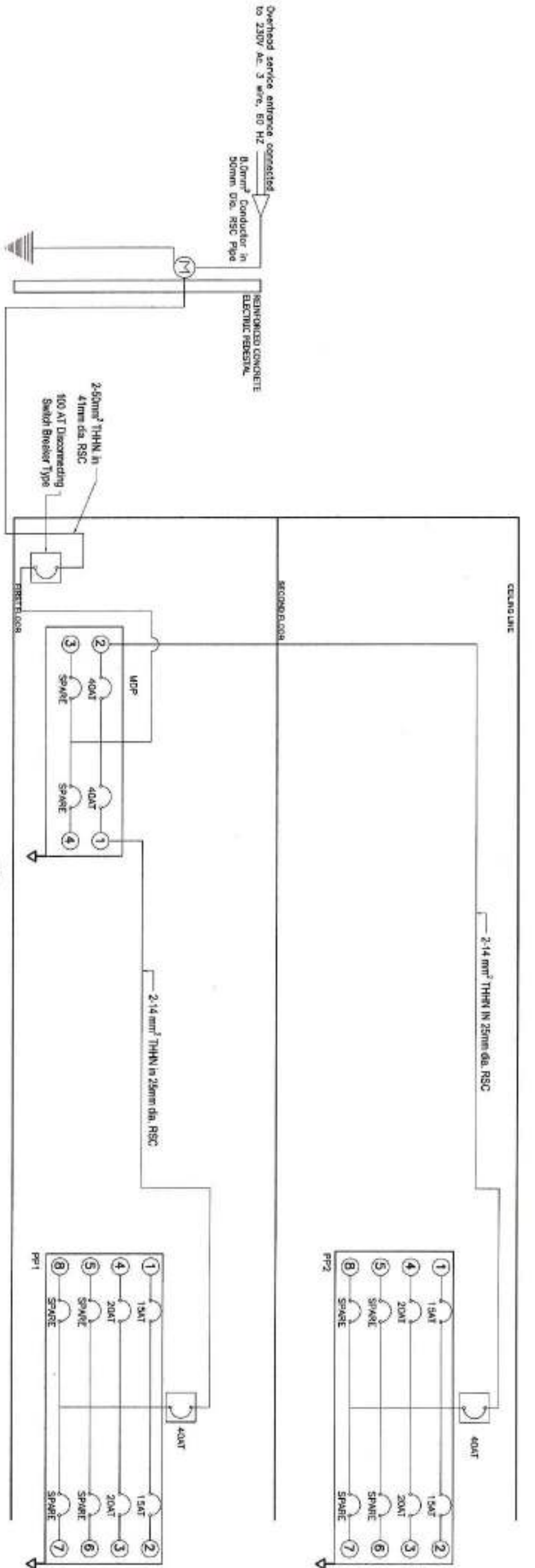
MAIN: 100 AT, 2-POLE, 230 V

LOCATION: UTILITY ROOM

MAIN DISTRIBUTION PANEL

CKT. NO.	DESCRIPTION	VA LOAD PER CIRCUIT	AMPERES	CKT. PROTECTION		AF	CIRCUIT HOMERUN		CONDUIT
				P	AT		LINE WIRE (THHN)	GROUND WIRE (THHN)	
01	PP1	4980	21.65	2	40	50	2-16 mm ²	1-8.0 mm ²	25 mm dia. RMC
02	PP2	5260	22.85	2	40	50	2-16 mm ²	1-8.0 mm ²	25 mm dia. RMC
03	SPARE	3000	13.04	2	30	50	2-8.0 mm ²	1-5.5 mm ²	25 mm dia. RMC
04	SPARE	3000	13.04	2	30	50	2-8.0 mm ²	1-5.5 mm ²	25 mm dia. RMC
TOTAL CONNECTED LOAD:		16,240	70.58		100				

 HAZELINE N. TIRANGAY UNIVERSITY ARCHITECT	ELECTRICAL ENGINEER REGISTERED	PROPOSED OPEN UNIVERSITY BUILDING PHASE 1 BENIGNO SIBUNYAN UNIVERSITY LA TRINIDAD, BENGUET	 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	LEONARDO T. APILIS BSCOE, BSCE, BSIE, BSIEP UNIVERSITY DIRECTOR	ALLAN CASALDO SACPA BSCE, BSIE, BSIEP ADMINISTRATIVE AND FINANCE ASSISTANT	SHEET CONTENT AS SHOWN REVISION DATE: REVISION NO.:	SHEET NO. E 04/05
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E5 RISER DIAGRAM
SCALE: N.T.S.

LOAD COMPUTATION:

TOTAL CONNECTED LOAD - 16240 VA
 Total = 80% DEMAND FACTOR, AS PERMITTED BY THE NATIONAL ELECTRICAL CODE

$$16240 \times 80\% = 54.13 \text{ AMP}$$

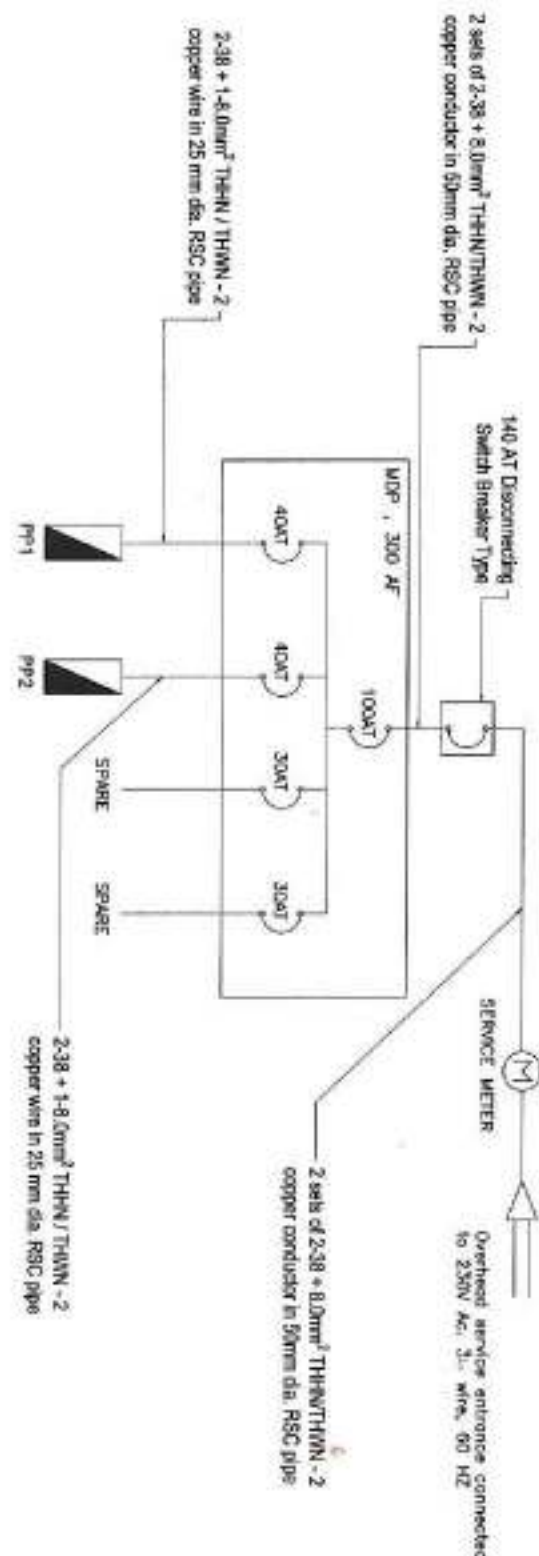
USE: 100 AT, 2P, 240V, 10 KAIC FOR MAIN SERVICE PROTECTION

SUB-FEEDER AND PROTECTION USE: 2 PIECES 8.0mm² or NO. 8 THW, COOPER WIRE

PVC CONDUIT PIPE USE 50mm Dia. PIPE

$$I_{total} = \frac{54.13 \times 240V}{1000} \times 120\% = 15.59 \text{ KVA}$$

USE: 37.5 KVA DISTN TRANSFORMER (IF REQUIRED)



E5 SINGLE LINE DIAGRAM
SCALE: N.T.S.

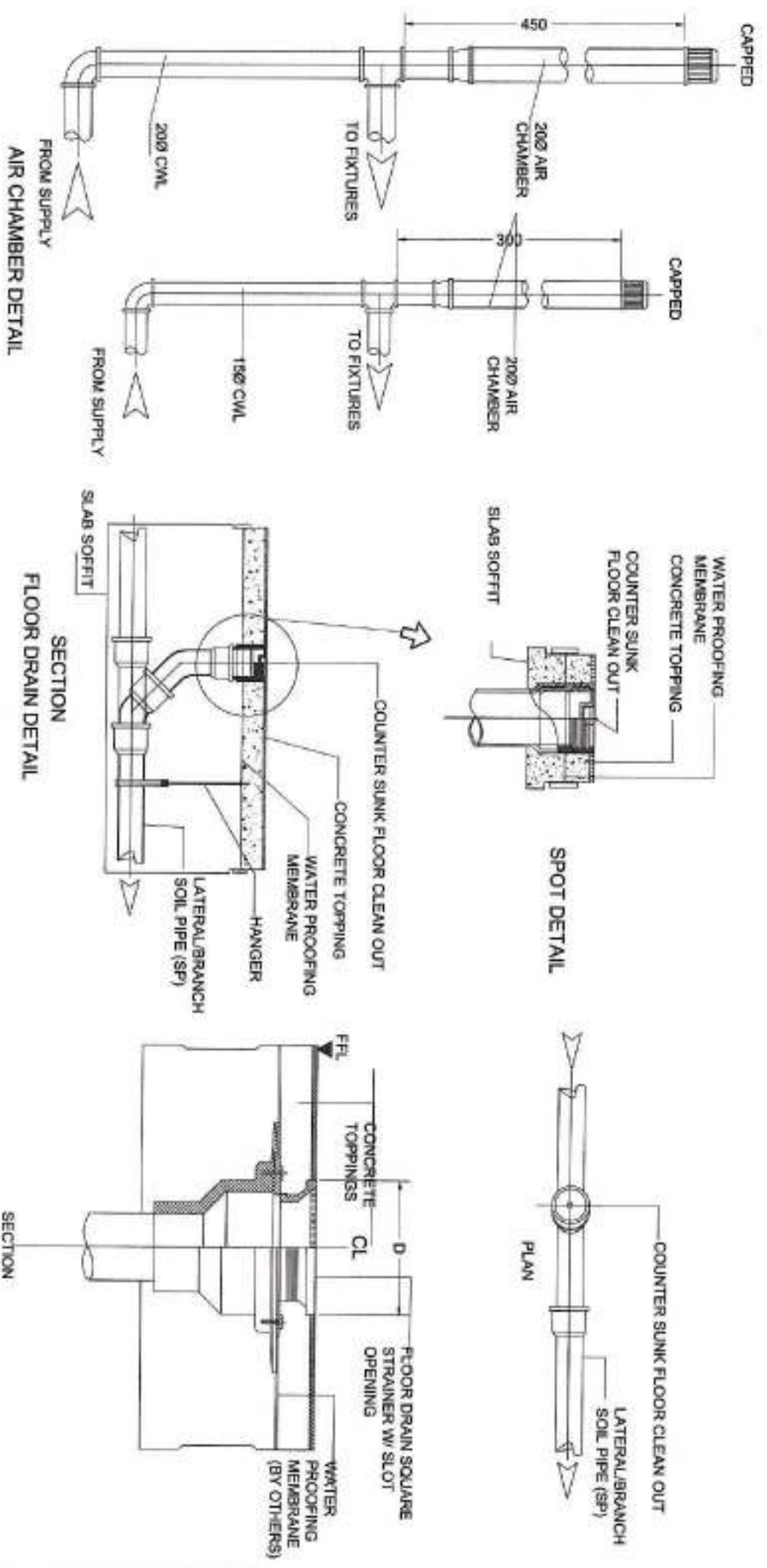
<p>HAZELINE N. TIBANGAY UNIVERSITY ARCHITECT</p>	PROJECT NO.	DATE	PROJECT / LOCATION	<p>BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET</p>	<p>DESIGNER LEONARDO T. APILIS</p>	<p>VECT. PRESIDENTS' ADMINISTRATION AND FINANCE ALLAN CASALDO SACPA</p>	<p>PROJECT ENGINEER PRICILIA MAJALING COMILA</p>	SHEET CONTENT	SHEET NOS.
	PROJECT NO.	DATE	PROJECT / LOCATION					REVISION NOS.	AS SHOWN

- GENERAL NOTES:**
1. ALL PLUMBING WORKS TO BE DONE AND SIZES OF PIPES TO BE USED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND LOCAL REGULATIONS AND ORDINANCES.
 2. ALL PIPES SHALL BE INSTALLED AS INDICATED IN THE WORKING DRAWINGS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE UPON THE APPROVAL OF THE SANITARY ENGINEER.
 3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
 4. ALL PIPES SHALL BE PROVIDED W/ PROPER HANGER AND SUPPORT.
 5. ALL FIXTURES SHALL BE VENTED INDIVIDUALLY AND WATERLINES SHALL BE VALVE BY GROUP.
 6. UNLESS OTHERWISE SPECIFIED, ALL PLUMBING FIXTURES SHALL BE PROPERLY VENTED. MAXIMUM DISTANCE OF VENTILATION FROM FIXTURES SHALL BE 1.50M MEASURED ALONG THE LENGTH OF PIPE.
 7. ALL PLUMBING FITTINGS SHALL BE ACCESSIBLE FOR MAINTENANCE. PROVIDE MANHOLE IF SUCH INSTALLATIONS ARE INSIDE THE CEILING.
 8. ALL CHANGES IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY-FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND, ONE EIGHT WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE BEND COMBINATION MAY BE USED ONLY ON VENT PIPE.
 9. NO DOUBLE HUB OR DOUBLE TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL OR WASTE LINES.
 10. PROVIDE PIPE SLEEVES AT WALL, COLUMNS OR SLAB TO PROTECT FROM BREAKAGE.
 11. ALL EXPOSED PIPINGS AND FITTINGS IN THE AREAS SHALL BE CHROME PLATED.
 12. THE BRAND AND OTHER DETAILED PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH THE SCHEDULE FURNISHED BY THE ARCHITECT.
 13. GATE VALVE SHALL BE BRONZE BODY, SOLID WEDGE TYPE, SCREWED OR FLANGE END.
 14. USE POLYPROPYLENE RANDOM, TYPE 3, PN20 FOR ALL WATER PIPING SYSTEM.
 15. USE uPVC SANITARY PIPING SYSTEM SERIES 1000 FOR 100 Ø AND SMALLER AND GRAVITY SEWER MAIN uPVC PIPING SYSTEM FOR 150 Ø AND BIGGER.
 16. ENGINEER-IN-CHARGE TO VERIFY ACTUAL LOCATION AND ELEVATION OF STREET DRAINAGE, STREET SEWER AND STREET WATER MAINS FOR CONNECTION BEFORE CONSTRUCTION.

MATERIAL SPECIFICATIONS

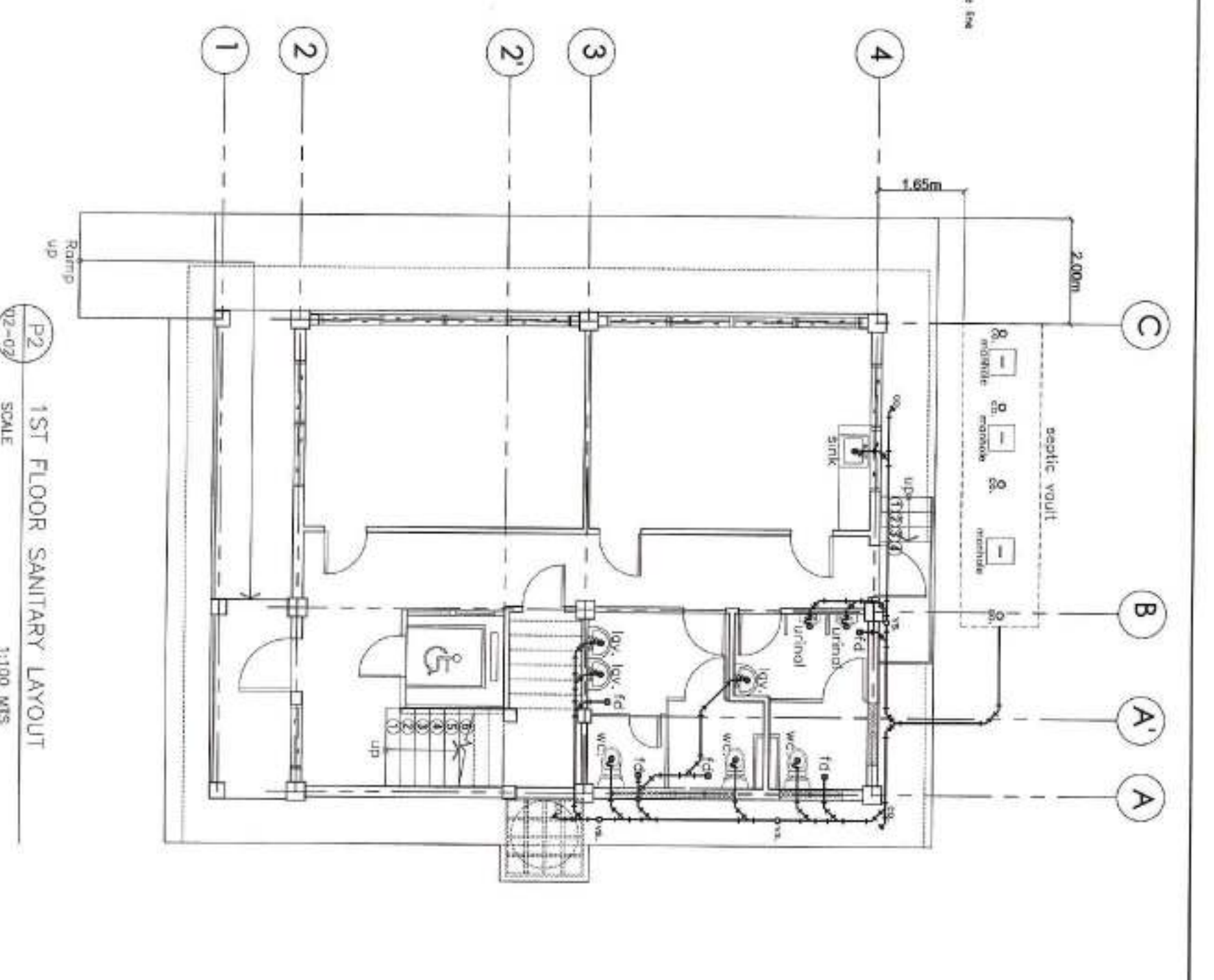
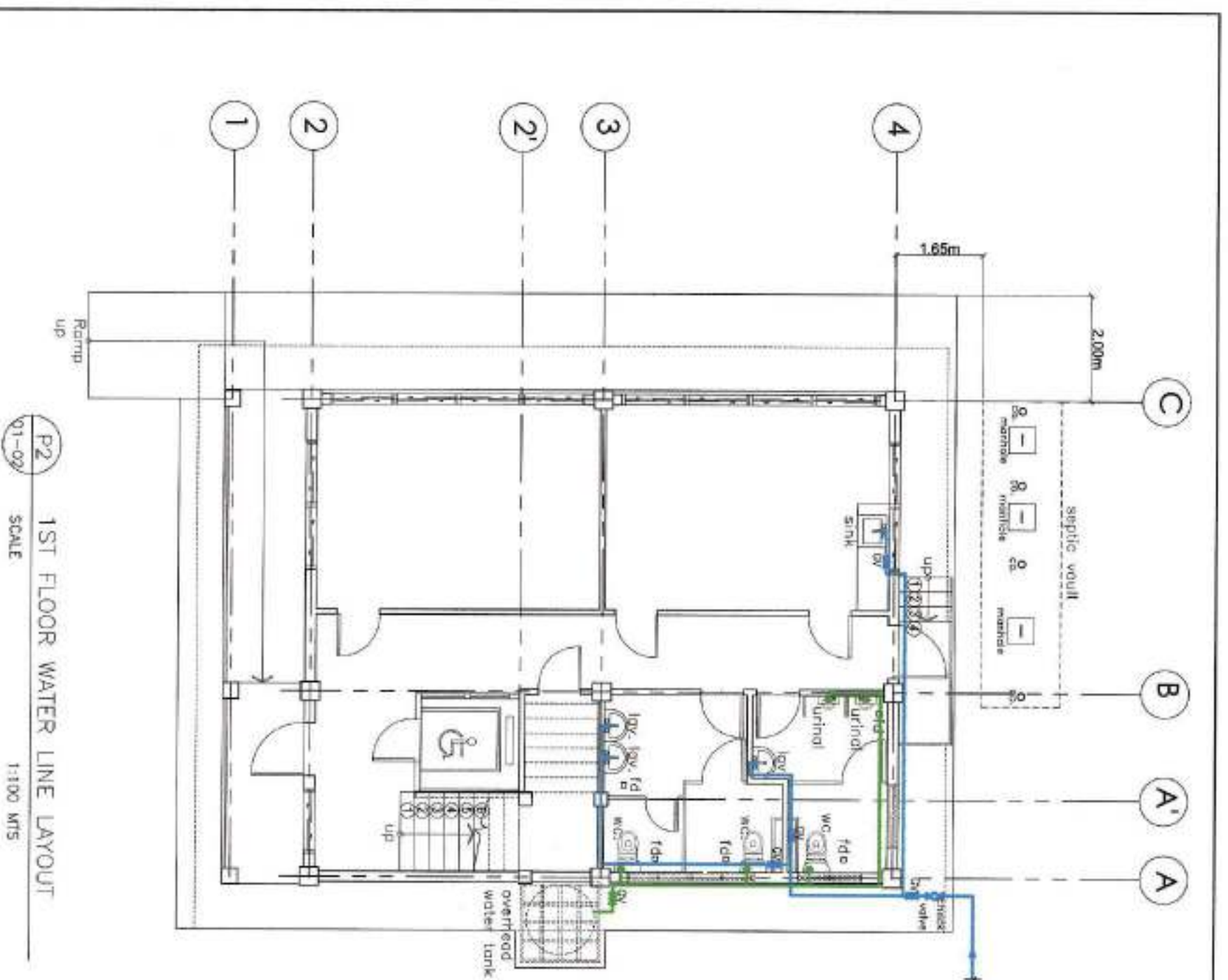
- COLD WATER LINE (FOR INTERIOR PIPES)**
- POLYPROPYLENE BY YESBO, UNITEC, WIRSBO & REHAU/OR APPROVED EQUIVALENT.
 - 50 TO 150mm. Ø SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 1000. (FOR EXTERIOR AND EXPOSED PIPES) PMS/SAO 374. MANUFACTURED ACCORDING TO ASTM 2729.
 - 50 TO 150mm. Ø SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 1000. MANUFACTURED ACCORDING TO ASTM 2729.
 - 30mm. Ø LARGER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM-76 & NON-REINFORCED CONCRETE PIPE 200mm. TO 350mm. Ø TO ASTM-C14, ASTM 3034.
- SEWER LINE**
- 50 TO 150mm. Ø SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SDR-35 MANUFACTURED ACCORDING TO ASTM 3034.
- PIPE DIAMETER**
- ALL PIPE DIAMETERS INDICATED IN THE DRAWINGS ARE INSIDE DIAMETERS.





PLUMBING LEGENDS		PLUMBING LEGENDS	
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	GATE VALVE		FLOOR DRAIN
	CHECK VALVE		LAVATORY
	FLOW DIRECTION		WATER CLOSET
	WYE TEE PIPE		URINAL
	ANGLE FITTING PIPE		SINK
	P-TRAP PIPE		CLEAN-OUT PIPE
	DOWN SPOUT		WATER TAP



11. ALL EXPOSED PIPINGS AND FITTINGS IN THE AREAS SHALL BE CHROME PLATED.
12. THE BRAND AND OTHER DETAILED PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH THE SCHEDULE FURNISHED BY THE ARCHITECT.
13. GATE VALVE SHALL BE BRONZE BODY, SOLID WEDGE TYPE, SCREWED OR FLANGE END.
14. USE POLYPROPYLENE RANDOM, TYPE 3, PN20 FOR ALL WATER PIPING SYSTEM.
15. USE uPVC SANITARY PIPING SYSTEM SERIES 1000 FOR 100 Ø AND SMALLER AND GRAVITY SEWER MAIN uPVC PIPING SYSTEM FOR 150 Ø AND BIGGER.
16. ENGINEER-IN-CHARGE TO VERIFY ACTUAL LOCATION AND ELEVATION OF STREET DRAINAGE, STREET SEWER AND STREET WATER MAINS FOR CONNECTION BEFORE CONSTRUCTION.

HAZRELLINE N. TIBANGAY UNIVERSITY ARCHITECT VENTURER	PROJECT NO. 2023	BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET PROJECT / LOCATION	LEONARDO T. APILIS RMD USER, BEO-OPEN UNIVERSITY DIRECTOR	ALLAN CASALDO SACYA VICE PRESIDENT, ADMINISTRATION AND FINANCE	FELIX SALANG COMILA PRESIDENT	SHEET CONTENTS AS SHOWN BETWEEN DATE REVISION NO.	SHEET NO. 0104	PROPOSED OPEN UNIVERSITY BUILDING PHASE 1 BUILDING LAYOUT AND ELECTRICAL LAYOUT	ENGINEER PROJECT / LOCATION



 HAZELINE N. TIBANGAY UNIVERSITY ARCHITECT	PROJECT No. _____ PLM No. _____	PLUMBER / SANITARY ENGINEER VALIDITY PERIOD _____	 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	RMD CSR / RMD OPEN UNIVERSITY DIRECTOR Leonardo T. Apilis	VICE PRESIDENT - ADMINISTRATION AND FINANCE ALLAN CASALDO SACPA	 RELIFE SALAING COMILA PRESIDENT	SHEET CONTENT AS SHOWN	SHEET NO. P
							REVISION DATE _____	REVISION NO. 02/04
PROJECT No. 0288 VALIDITY PERIOD _____	PROJECT No. _____ PLM No. _____	PROPOSED OPEN UNIVERSITY BUILDING PHASE I 8500 S. BAYVIEW BLVD. LA TRINIDAD, BENGUET	BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	RMD CSR / RMD OPEN UNIVERSITY DIRECTOR Leonardo T. Apilis	VICE PRESIDENT - ADMINISTRATION AND FINANCE ALLAN CASALDO SACPA	 RELIFE SALAING COMILA PRESIDENT	SHEET CONTENT AS SHOWN	SHEET NO. P

PLUMBING ANALYSIS

RESTROOM 1 (FIRST FLOOR - FEMALE CR. WITH PWD CUBICLE)

FIXTURES	NO. OF FIXTURES	EQUIVALENT FIXTURE UNIT	TOTAL FIXTURE UNIT
1. LAVATORY	2	1	2 FIXTURE UNIT
2. WATER CLOSET	2	6	12 FIXTURE UNIT
3. FLOOR DRAIN	3	2	6 FIXTURE UNIT
SUB-TOTAL = 20 FIXTURE UNIT			

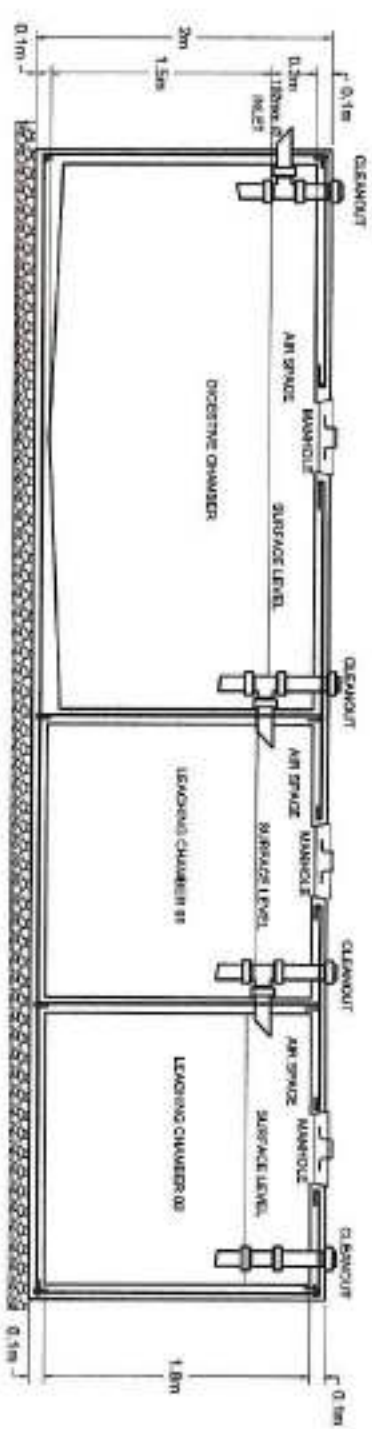
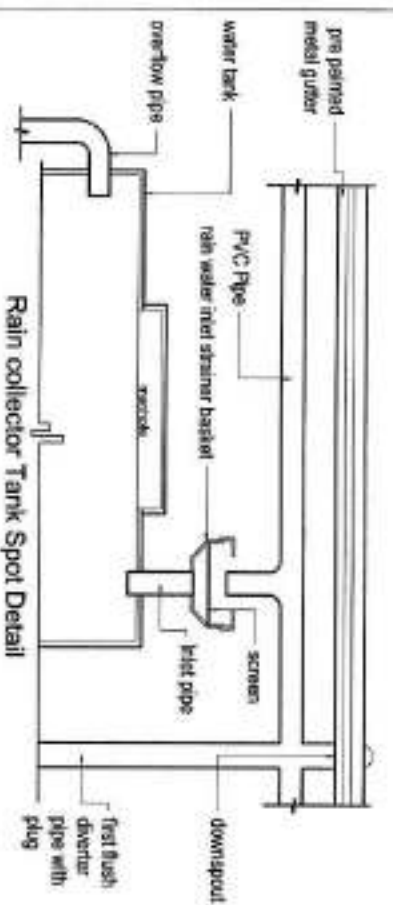
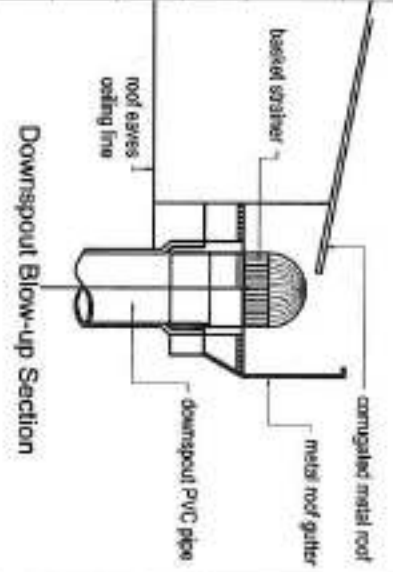
RESTROOM 2 (FIRST FLOOR - MALE CR. WITH PWD CUBICLE)

FIXTURES	NO. OF FIXTURES	EQUIVALENT FIXTURE UNIT	TOTAL FIXTURE UNIT
1. LAVATORY	1	1	1 FIXTURE UNIT
2. WATER CLOSET	1	6	6 FIXTURE UNIT
3. URINAL	2	2	4 FIXTURE UNIT
4. FLOOR DRAIN	2	2	4 FIXTURE UNIT
SUB-TOTAL = 15 FIXTURE UNIT			

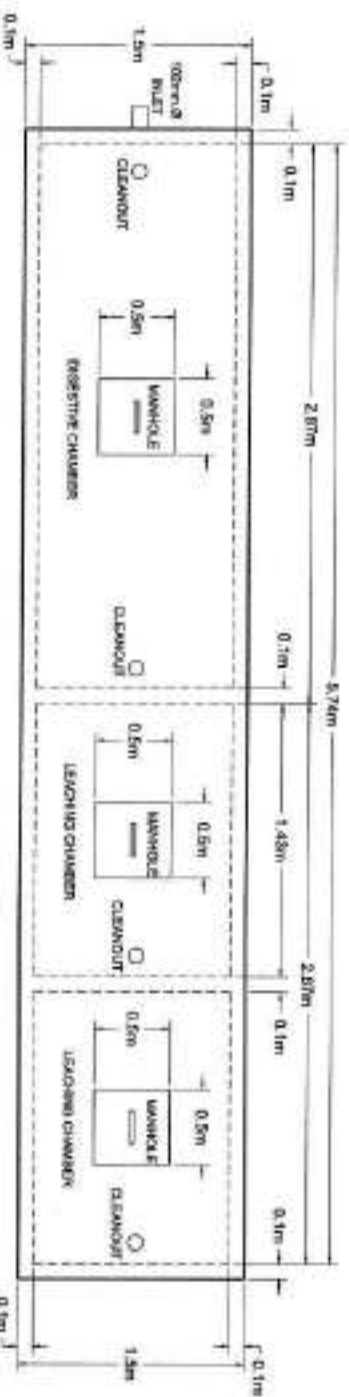
PANTRY (FIRST FLOOR)

FIXTURES	NO. OF FIXTURES	EQUIVALENT FIXTURE UNIT	TOTAL FIXTURE UNIT
1. KITCHEN SINK	1	1	1 FIXTURE UNIT
SUB-TOTAL = 1 FIXTURE UNIT			
TOTAL = 36 FIXTURE UNIT			

IN THE PRESENCE OF WATER CLOSET USE MINIMUM SIZE OF DISCHARGE PIPE = 75 MM DIA.
USE MINIMUM VENT PIPE SIZE = 50 MM DIA.



P4 SEPTIC VAULT BLOW-UP SECTION
SCALE: N.T.S.






P4 SEPTIC VAULT BLOW-UP PLAN
SCALE: N.T.S.

SEPTIC TANK DIMENSION

L	W	H	Lc
5.74m	1.50m	2.00m	1.43m

100 Persons Expected to use the Facility
0.086 cu.m. / person (school building) according to Max Fajardo
100 x 0.086 = 8.6 cu.m/person

Length of Digestion chamber = 8.6 / width (1.5) x depth(2) = 2.87m
Total length of Septic Tank(two leaching chamber)
= (2.87 / 2) + (2.87 / 2) + 2.87 = 5.74m

 HAZELINE N. TRIBANGAY UNIVERSITY ARCHITECT	REGISTERED / SANITARY ENGINEER REGISTERED / PLUMBER REGISTERED / PAINTER	 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	PROPOSED OPEN BUILDING PHASE I BOUNDARY CONSTRUCTION LA TRINIDAD, BENGUET	 ALLAN CASALDO SACPA RESIDENT	SHEET CONTENT: AS SHOWN SHEET NO.: 04/04

GENERAL CONSTRUCTION NOTES

1. IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
2. IN REFERENCE TO THE OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENING IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DOORS, ETC.
3. IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND ARCHITECT.
4. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE AC 318-95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
5. ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
6. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
7. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, AND STRUCTURAL STEEL MUST BE NOTED AND APPROVED BY THE STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

1. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF THE TWENTY EIGHTH (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS:

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGG.	MAX. SLUMP
SLABS	4000 PSI (27.58 MPa)	20 mm	100 mm
COLUMNS	4000 PSI (27.58 MPa)	20 mm	100 mm
BEAMS	4000 PSI (27.58 MPa)	20 mm	100 mm
FOOTINGS	3500 PSI (20.70 MPa)	20 mm	100 mm

2. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SUSPENDED SLABS	20mm
SLAB ON GRADE	40mm
WALLS ABOVE GRADE	25mm
BEAM STIRRUPS AND COLUMN TIES	40mm
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	50mm
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	75mm

3. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. REHANDLING OR PLACING SHALL BE DONE PREFERABLY WITH BUCKETS, BUCKETS OR WHEELBARROWS, AND CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUCKETS, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
4. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.
5. ALL ANCHOR BOLTS, DOWNELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
6. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
7. STRIPPING OF FORMS AND SHORES:

FOUNDATION	24 HRS
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALLS	21 DAYS
BEAMS	14 DAYS
COLUMNS	21 DAYS
8. THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST FOUR (4) DAYS PRIOR TO THE POURING FOR APPROVAL.

9. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORING UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON REINFORCEMENT

1. UNLESS OTHERWISE NOTED IN THE PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:

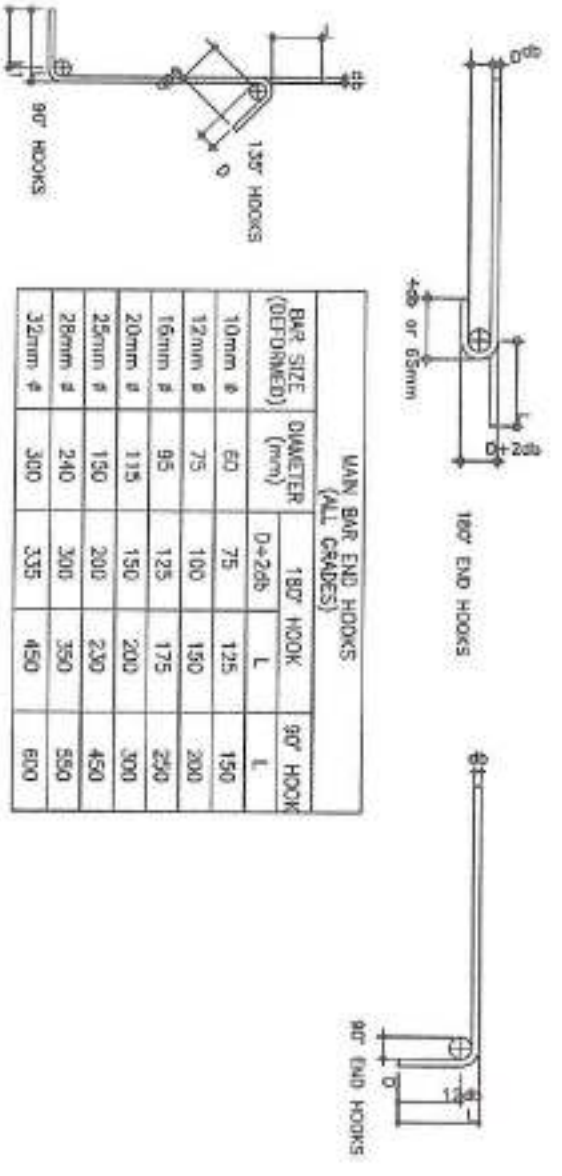
FOOTINGS	FY = 276 MPa (40,000 PSI) GRADE 40
COLUMNS	FY = 414 MPa (60,000 PSI) GRADE 60
BEAMS, SLABS	FY = 276 MPa (40,000 PSI) GRADE 40
2. NONLOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR AND ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK - FY = 275 MPa (30,000 PSI)
3. ALL REINFORCING BARS SIZE 10MM OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10MM MAY BE PLAIN.
4. SPICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE A AND TABLE B (TABLE OF LAP SPICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPICES SHALL BE STAGGERED WHENEVER POSSIBLE AND NO SPICE SHALL BE MORE THAN 50%.

NOTES ON CONCRETE SLABS

1. ALL SLAB REINFORCEMENTS SHALL BE 20MM CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.

NOTES ON STIRRUPS

1. ALL REINFORCEMENT SHALL BE BENT UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
2. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FILED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
3. TIES AND CLOSE STIRRUPS MUST BE BENT AT 135°.



BAR SIZE (DEFINED)	VAN BAR END HOOKS (ALL GRADES)		
	180° HOOK	90° HOOK	90° HOOK
10mm #	60	75	125
12mm #	75	100	150
16mm #	95	125	175
20mm #	115	150	200
25mm #	150	200	230
28mm #	240	300	350
32mm #	300	335	450

BAR SIZE (DEFINED)	STIRRUP AND TIE HOOKS (ALL GRADES)		
	D+2d	180° HOOK	90° HOOK
10mm #	40	125	85
12mm #	50	165	115
16mm #	65	200	140
20mm #	115	250	165
25mm #	150	365	230

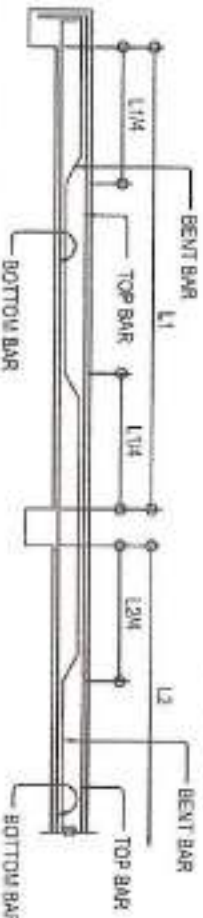
 SHERIPE JOHN C. LA MADRID CIVIL ENGINEER VALIDATED: JULY 6, 2024 (PRTD) ENHANCING LIFE	 HAZELINE N. TIBANGAY HEAD, PROJECT MANAGEMENT UNIT	PROPOSED OPEN UNIVERSITY BUILDING (PHASE-1) 800 CLOUTIER RD. KAPALAYAN, CALABARZON PROJECT LOCATION	 BENGUET STATE UNIVERSITY (A TRUSTEED UNIVERSITY)	OWNER LEONARDO T. APILIS ENDORSED DIRECTOR/OPEN UNIVERSITY	SUPERVISOR/CONSULTATION/ENDORSED ALLAN CASALDO SACPA	PREPARED BY FELICE SALAING COMILA TRUSTEED	SHEET NO. S1 01 14
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NOTES ON FOOTINGS

1. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 84 KPA. THE CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
2. FOOTING SHALL REST AT LEAST 300MM BELOW NATURAL GRADE UNLESS OTHERWISE INDICATED IN THE PLANS. NO FOOTING SHALL REST ON FILL.
3. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75MM CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50MM FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

NOTES ON CONCRETE SLABS

1. ALL SLAB REINFORCEMENTS SHALL BE 20MM CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
2. UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWING:

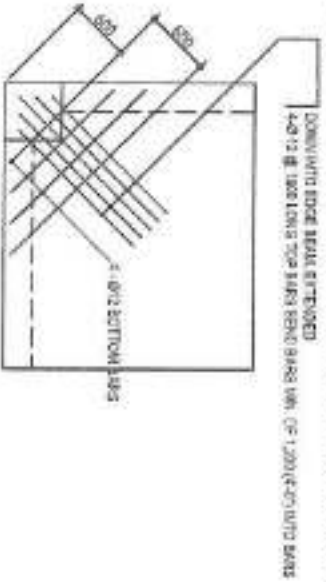


TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

3. IF SLABS ARE REINFORCED BOTH WAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS.
4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 X GROSS CROSS-SECTIONAL AREA (A_G) OF THE SLAB (SEE SCHEDULE BELOW).

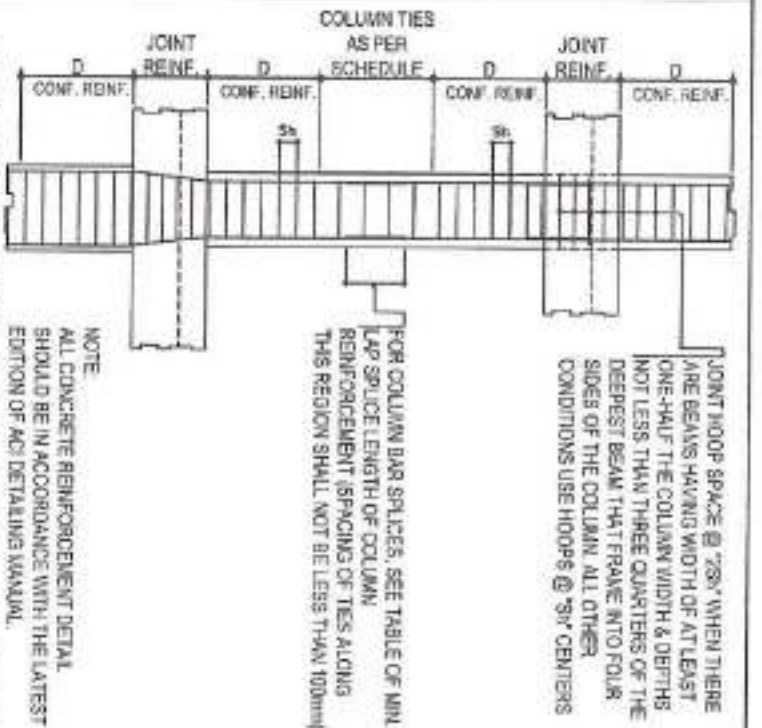
THICKNESS	SCHEDULE OF MINIMUM SLAB REINFORCEMENT	MINIMUM TENSILE TIE BARS
150 mm	10 mm @ 200mm EACH-WAY	10 mm @ 225mm EACH-WAY
175 mm	10 mm @ 225mm EACH-WAY	10 mm @ 180mm EACH-WAY
200 mm	10 mm @ 180mm EACH-WAY	10 mm @ 150mm EACH-WAY
225 mm	10 mm @ 150mm EACH-WAY	10 mm @ 120mm EACH-WAY

5. UNLESS OTHERWISE NOTED IN THE PLANS, ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm @ 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.85 METERS APART.
6. PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
7. CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10MM Ø STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 12 METERS ON CENTER BOTH WAYS.



NOTES ON COLUMNS

1. PROVIDE EXTRA SETS OF TIES AT 100MM O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/2 THE CLEAR HEIGHT OF COLUMN OR 450MM.
2. COLUMN TIES SHALL BE PROJECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40MM AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
3. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10MM TIES AT 100MM SHALL BE PROVIDED THROUGHOUT THE OFFSET REGION.
4. UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS, WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600MM.



TYPICAL COLUMN ELEVATION SHOWING DOWELS AND TIES SPACING

NOTES ON BEAMS AND GIRDERS

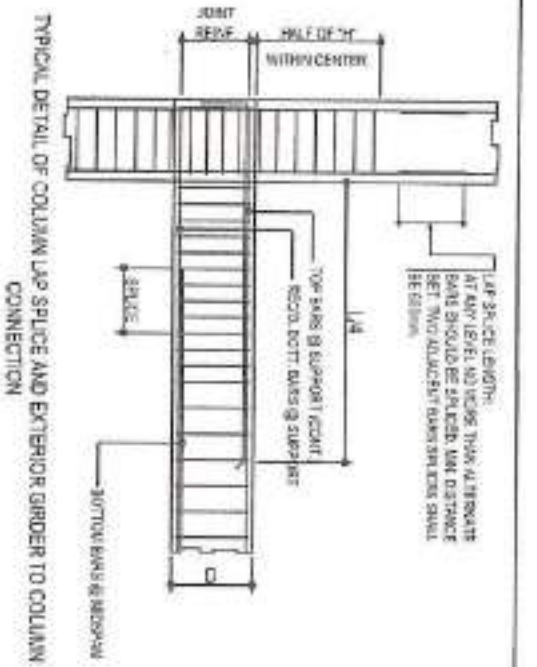
1. UNLESS OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIRDERS AT LEAST 5MM FOR EVERY 4.5M OF SPAN, EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 2MM FOR EVERY 3.0M OF FREE SPAN.
2. TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIGURE B-2.
3. IF THE BEAM REINFORCING BARS END IN A WALL, THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25MM. EMBEDMENT LENGTH SHALL BE AS SHOWN IN TABLE 'B' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BARS SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN AT LEAST TWO STRIPS SHALL BE PROVIDED AT ALL SPLICES.
4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25MM Ø BAR SEPARATORS SPACED AT 1.5M ON CENTER, IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
5. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SWAGES SHALL BE AS SHOWN IN FIGURE B-1 UNLESS SPECIFIED ELSEWHERE.
6. WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINFORCING BARS SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
7. GENERALLY, NO SPLICE SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR. SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B' WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR, NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

NOTES ON EMBEDDED PIPES

1. ALL EMBEDDED PIPES FOR UTILITIES, ETC., THAT PASS THROUGH BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
2. NO PIPES SHALL BE ALLOWED TO PASS THROUGH BEAMS VERTICALLY.
3. NO PIPES SHALL BE EMBEDDED IN COLUMNS.



TYPICAL DETAILS FOR SLEEVES THRU CONCRETE BEAM



TYPICAL DETAIL OF COLUMN LAP SPICE AND EXTERIOR GIRDER TO COLUMN CONNECTION

SHERIFF JOHN C. LA MADRID
 CIVIL ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 No. 0214

HAZELJENNE TIBANGAY
 ARCHITECT
 REGISTERED ARCHITECT

UNIVERSITY BUILDING (PHASE-1)
 2ND FLOOR, 2ND HALL
 LA TRINIDAD HOSPITAL
 PROJECT LOCATION



BENGUET STATE UNIVERSITY
 LA TRINIDAD BRANCH
 OWNER

Leonardo T. Apilis
 END USER, DIRECTOR, OPEN UNIVERSITY

ALLAN CASALDO SACPA
 ARCHITECT, ARCHITECTURE AND PLANNING

FELIX SALVING COMILA
 PRESIDENT

TABLE 'W'				TABLE 'B'			
TENSION BARS				COMPRESSION BARS			
BAR SIZE	FE = 20,000 PSI (1,378 MPa)	FE = 27,000 PSI (1,878 MPa)	FE = 27,000 PSI (1,878 MPa)	BAR SIZE	FE = 20,000 PSI (1,378 MPa)	FE = 27,000 PSI (1,878 MPa)	FE = 27,000 PSI (1,878 MPa)
DEVELOPMENT LENGTH	DEVELOPMENT LENGTH	DEVELOPMENT LENGTH	DEVELOPMENT LENGTH	DEVELOPMENT LENGTH	DEVELOPMENT LENGTH	DEVELOPMENT LENGTH	DEVELOPMENT LENGTH
10mm # 3	300	300	300	10mm # 3	225	300	300
12mm # 4	360	360	360	12mm # 4	270	360	360
16mm # 5	480	480	480	16mm # 5	360	480	480
20mm # 6	600	600	600	20mm # 6	450	600	600
25mm # 8	750	750	750	25mm # 8	540	750	750
32mm # 10	960	960	960	32mm # 10	675	960	960

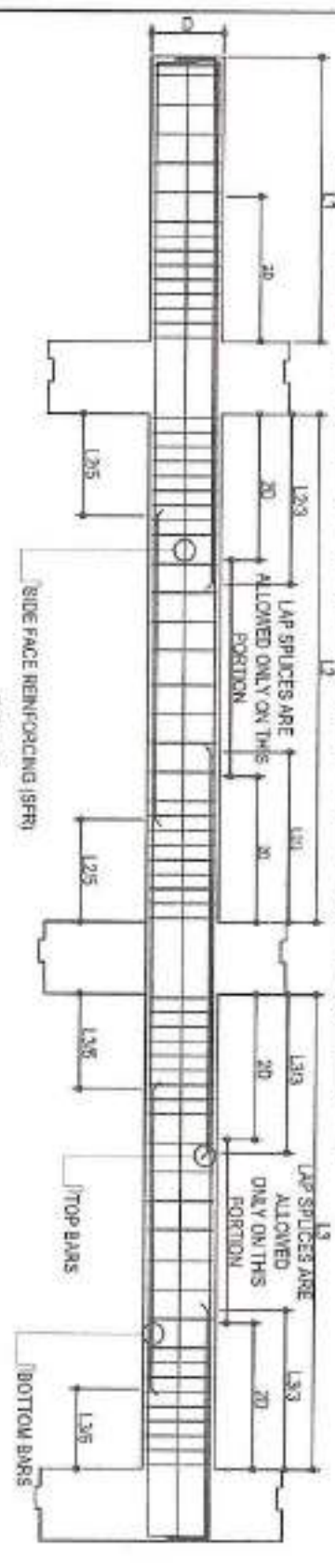


FIG. B-2 TYPICAL BEAM ELEVATION SHOWING DOWELS AND TIES SPACING

- NOTES ON WELDS
1. USE ERW ELECTRODES FOR ALL MEMBERS WELDED.
 2. WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

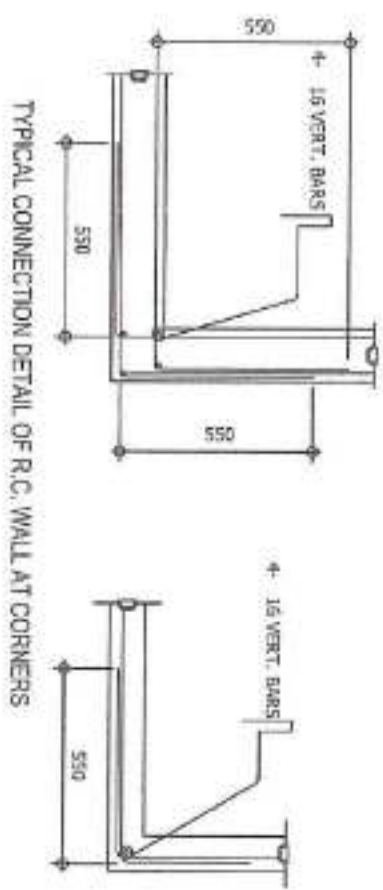
NOTES ON STRUCTURAL STEEL

1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISIONS OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
2. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
3. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
4. UNLESS OTHERWISE SPECIFIED, ALL WELDING RODS SHALL CONFORM AWS E60 ELECTRODES.
5. ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

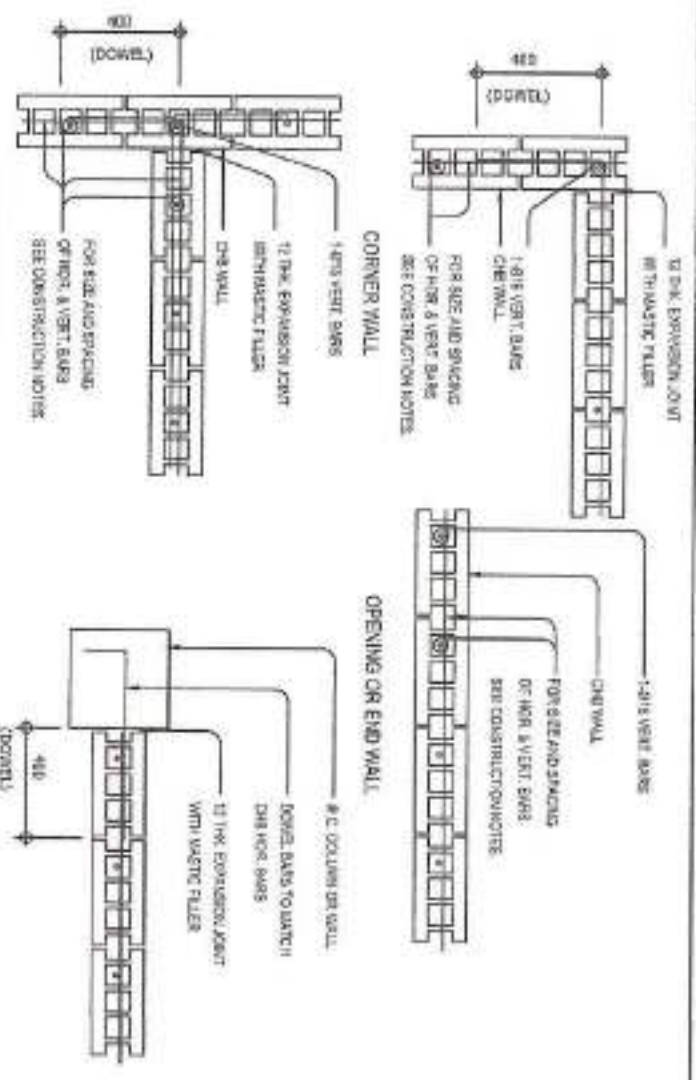
- NOTES ON CONCRETE HOLLOW BLOCK WALLS
1. UNLESS OTHERWISE SHOWN IN THE PLANS, ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS ARE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
 2. PROVIDE 15mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 15mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 300mm LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN THE STRUCTURAL PLANS.

SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT

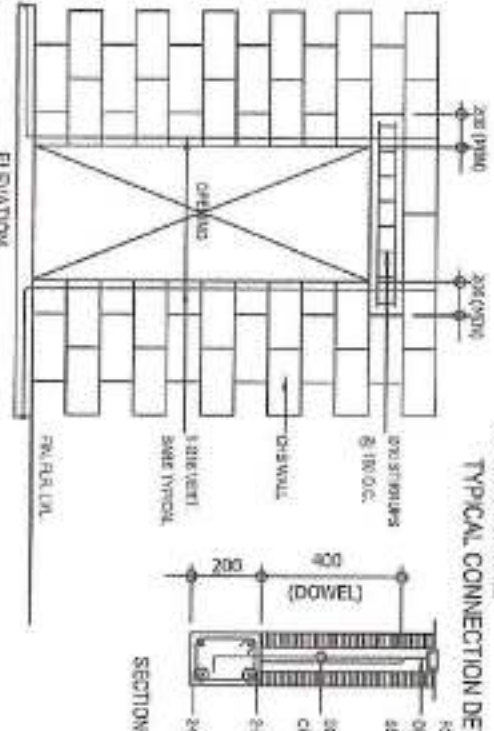
BLOCK THICKNESS	HORIZONTAL REINFORCEMENT	VERTICAL REINFORCEMENT	NOTES
75 mm	1# @ 200mm O.C.	1# @ 200mm O.C.	A. MINIMUM LAP AT JUNCTION - 400mm
125 mm	1# @ 200mm O.C.	1# @ 200mm O.C.	B. SERVICE HOLES SHALL BE REINFORCED AT CORNERS ONLY.
150 mm	1# @ 200mm O.C.	1# @ 200mm O.C.	C. WHERE ONE OR MORE BLOCKS SHALL CONTAIN JOINTS, R.C. BEAMS AND/OR BOLTS WITH THE BARS SHALL BE VERTICAL ON HORIZONTAL REINFORCEMENT SHALL BE HORIZONTAL.
200 mm	1# @ 200mm O.C.	1# @ 200mm O.C.	



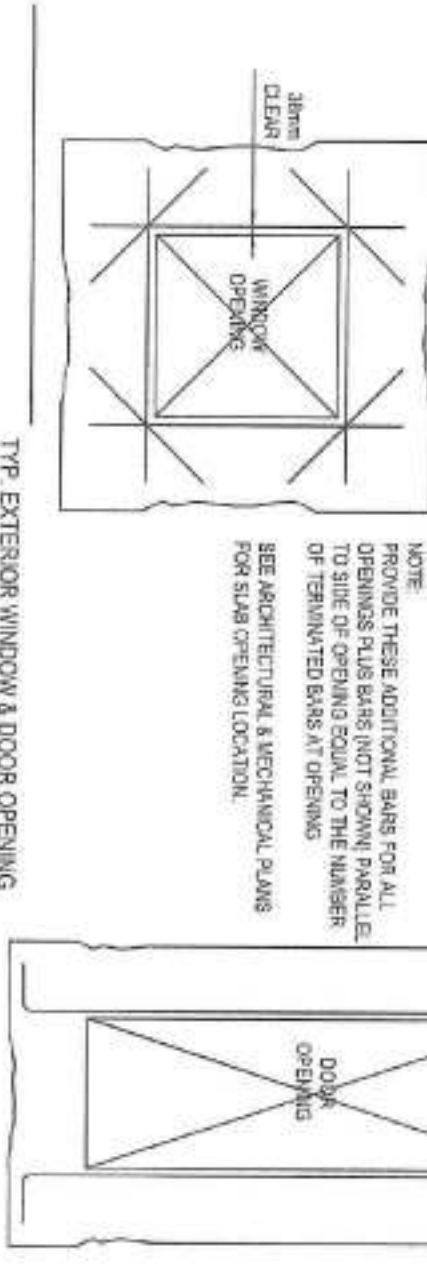
TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS



TYPICAL CONNECTION DETAIL OF MASONRY WALL



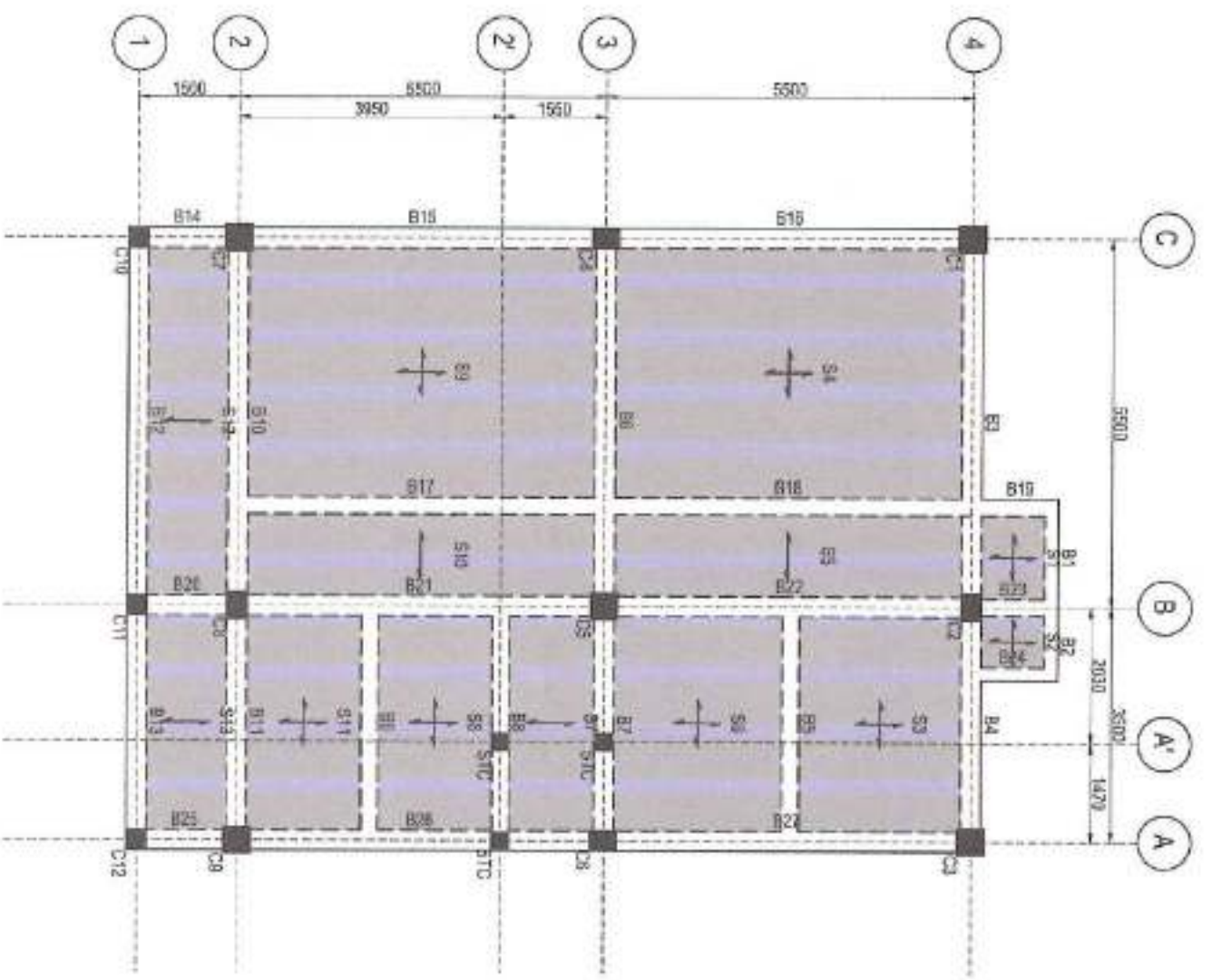
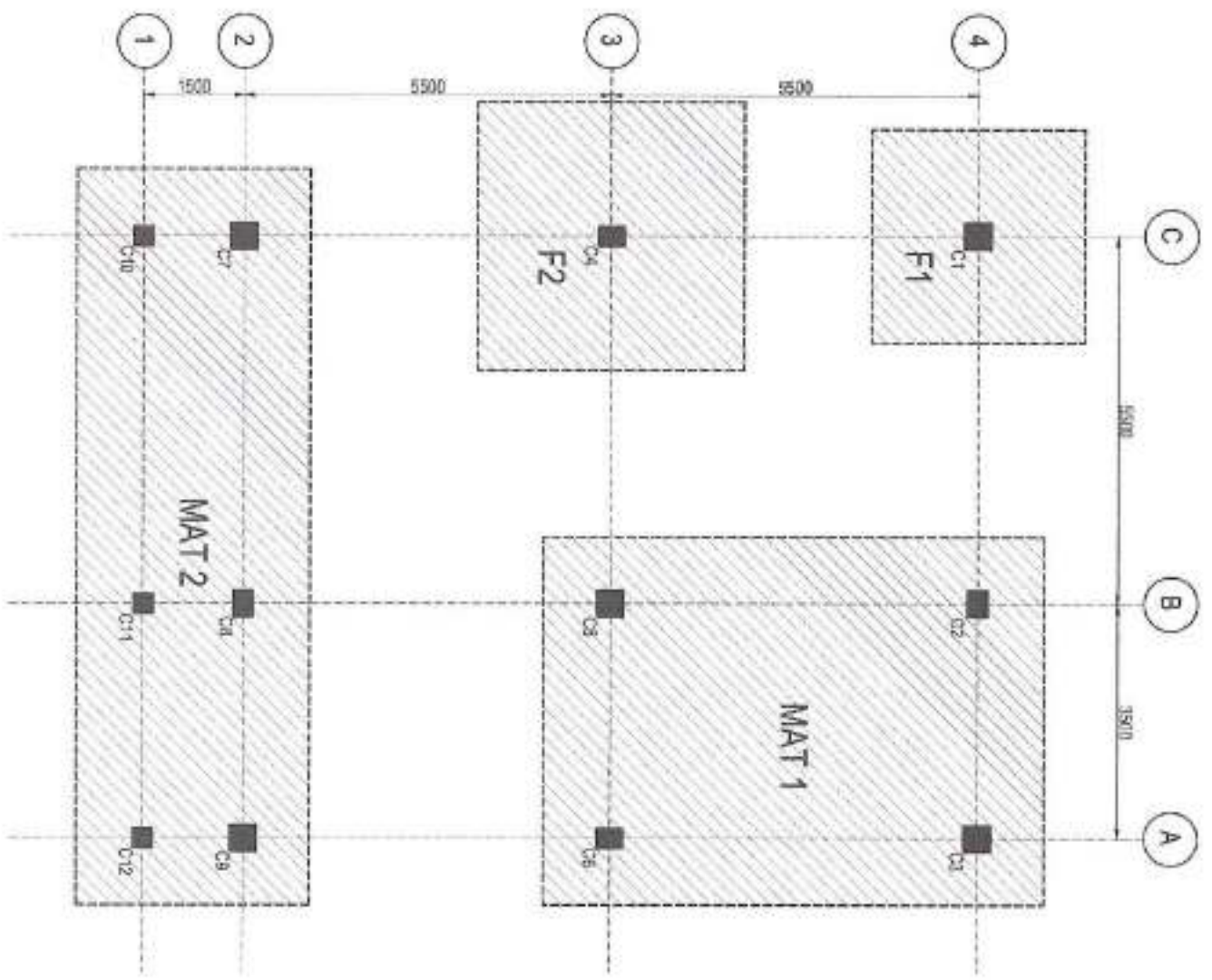
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



TYP. EXTERIOR WINDOW & DOOR OPENING

NOTE
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENINGS
SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.

 SHERIF JOHN C. LA MADRID CIVIL ENGINEER VALIDATED QUALITY ASS. REGISTERED PROFESSIONAL ENGINEER (P.E. No. 000000)	 HAZELINE T. BAMBANG LEAD PROJECT MANAGER/ARCHITECT	PROPOSED OPEN UNIVERSITY BUILDING (PHASE-1) BENIGNO SERRANO AVENUE, LA TRINIDAD, BENGUET	 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	OWNER	 LEONARDO T. APILIS END USER / DIRECTOR-OPEN UNIVERSITY	 ALLAN CASALDO SACPA ARCHITECTURAL SUPERVISOR, MAF-PINDAD	 FELICITAS SALMING COMILLA PRESIDENT	SHEET NO. S3 03/14
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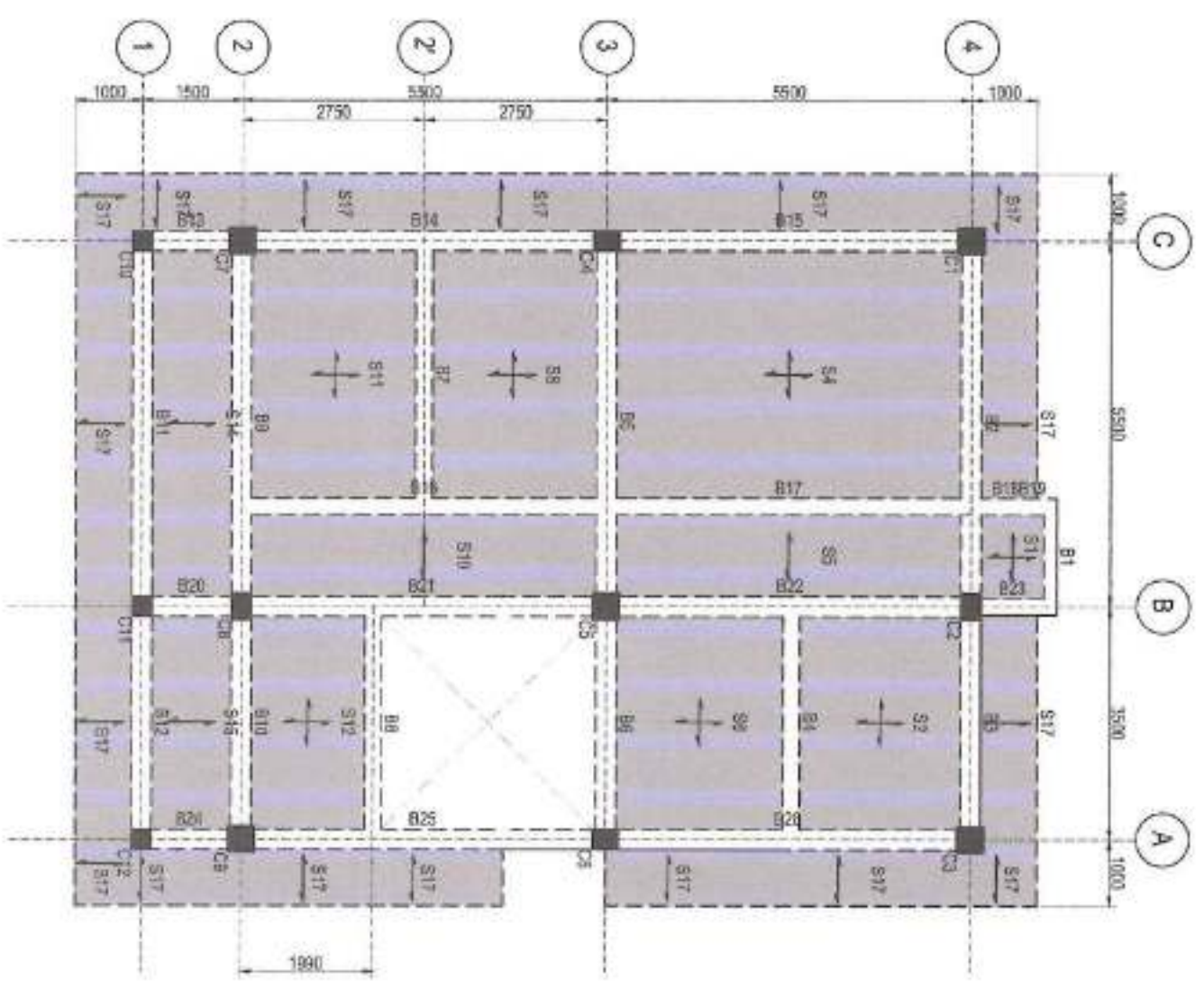


S FOUNDATION LAYOUT
 1/4 SCALE
 1:100

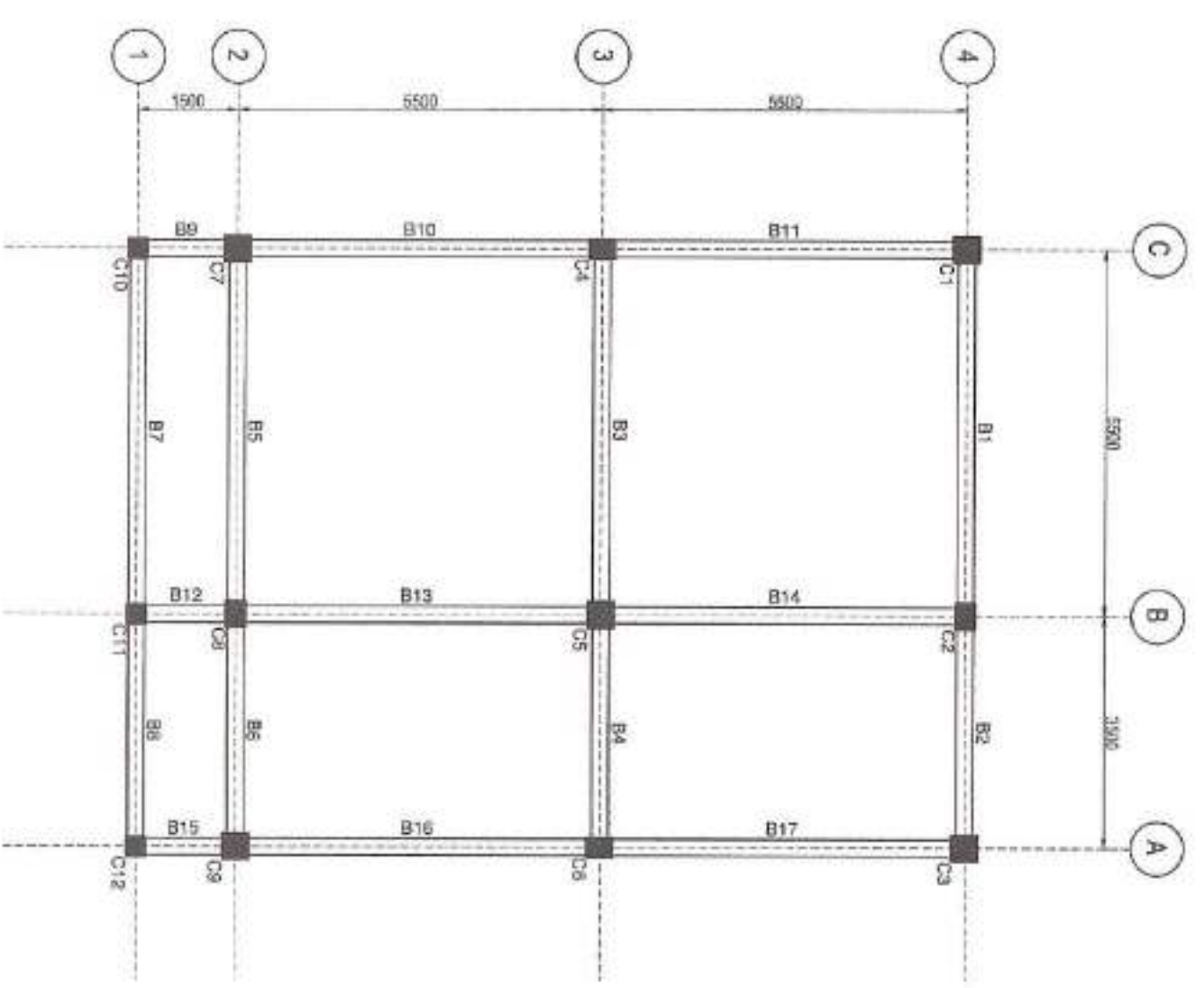
S FIRST FLOOR FRAMING PLAN
 2/4 SCALE
 1:100

PLAN AT 3 M

 SHERIFF JOHN C. LA MADRID <small>REGISTERED PROFESSIONAL ENGINEER CIVIL ENGINEER VALIDITY: UNTIL 01.01.2025 REG. NO. 88888</small>	 HAZELINE N. TIBANGAY <small>HEAD, PROJECT MANAGEMENT UNIT</small>	PROPOSED OPEN UNIVERSITY BUILDING (PHASE-1) <small>888.13 BARRIO SAN ANTONIO, LAVERGADA, BENGUET</small> PROJECT / LOCATION	 BENGUET STATE UNIVERSITY <small>LATHROP ROAD, BENGUET</small> OWNER	 LEONARDO T. APILIS <small>ENR. OFFICE DIRECTOR, OPEN UNIVERSITY</small>	 ALLAN CASALDO SACPA <small>VICE-CHIEF OF STAFF, ADMINISTRATION AND FINANCE</small>	 FELIPE SALAMING COMILLA <small>PRESIDENT</small>	SHEET NO. S4 04 / 14



S SECOND FLOOR FRAMING PLAN
SCALE 1/5



S ROOF FRAMING PLAN @ BOTTOM CHORD LEVEL
SCALE 2/5

Sheriff John C. La Madrid
SHERIFF JOHN C. LA MADRID
 CIVIL ENGINEER
 VALIDATED: JUAN R. JAMES
 REGISTERED PROFESSIONAL ENGINEER
 REGISTERED NO. 12889

Hazelina N. Tibanggay
HAZELINA N. TIBANGGAY
 ARCHITECT
 REGISTERED NO. 12889

PROPOSED OPEN UNIVERSITY BUILDING (PHASE-1)
 800 CALABANG ROAD, CALABANG, PANGLOSS, LA TRINIDAD, BENGUET
 PROJECT LOCATION



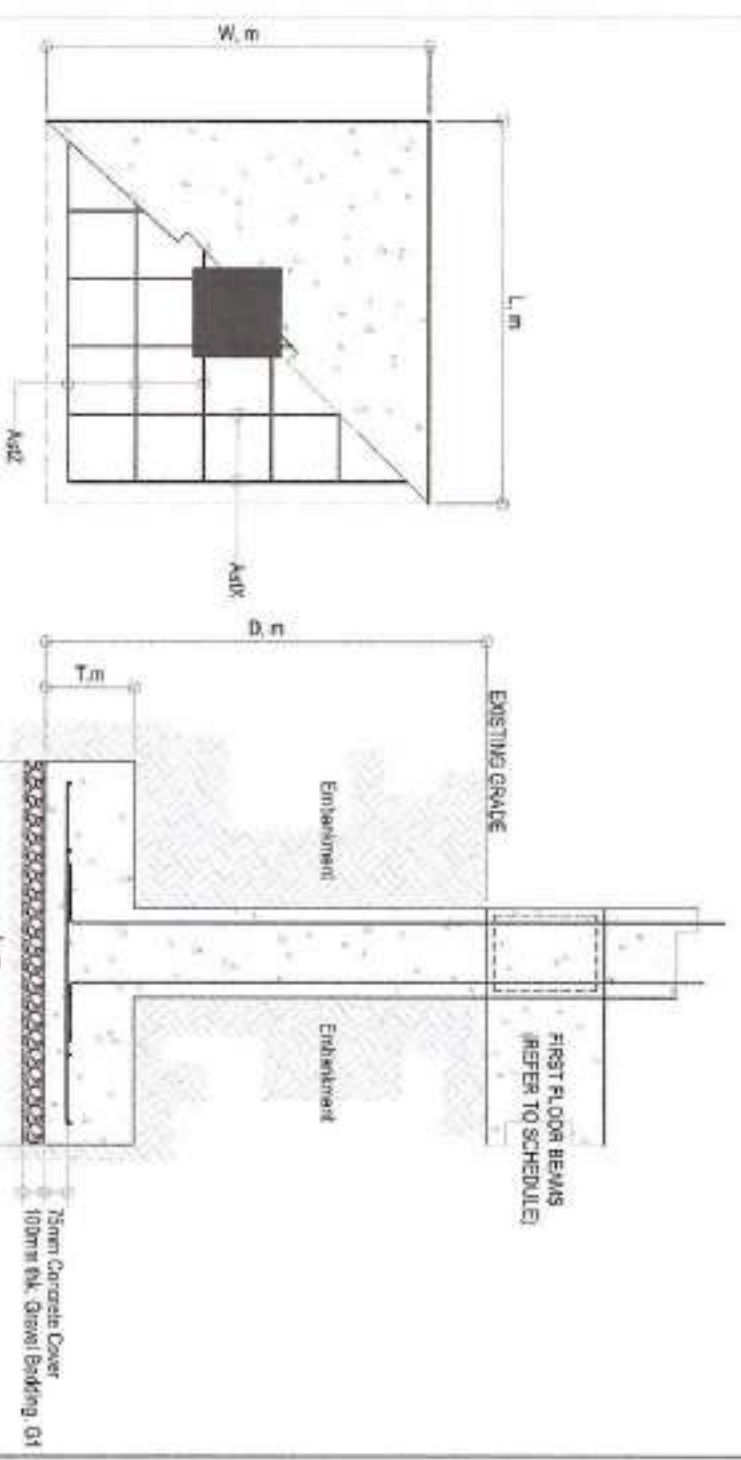
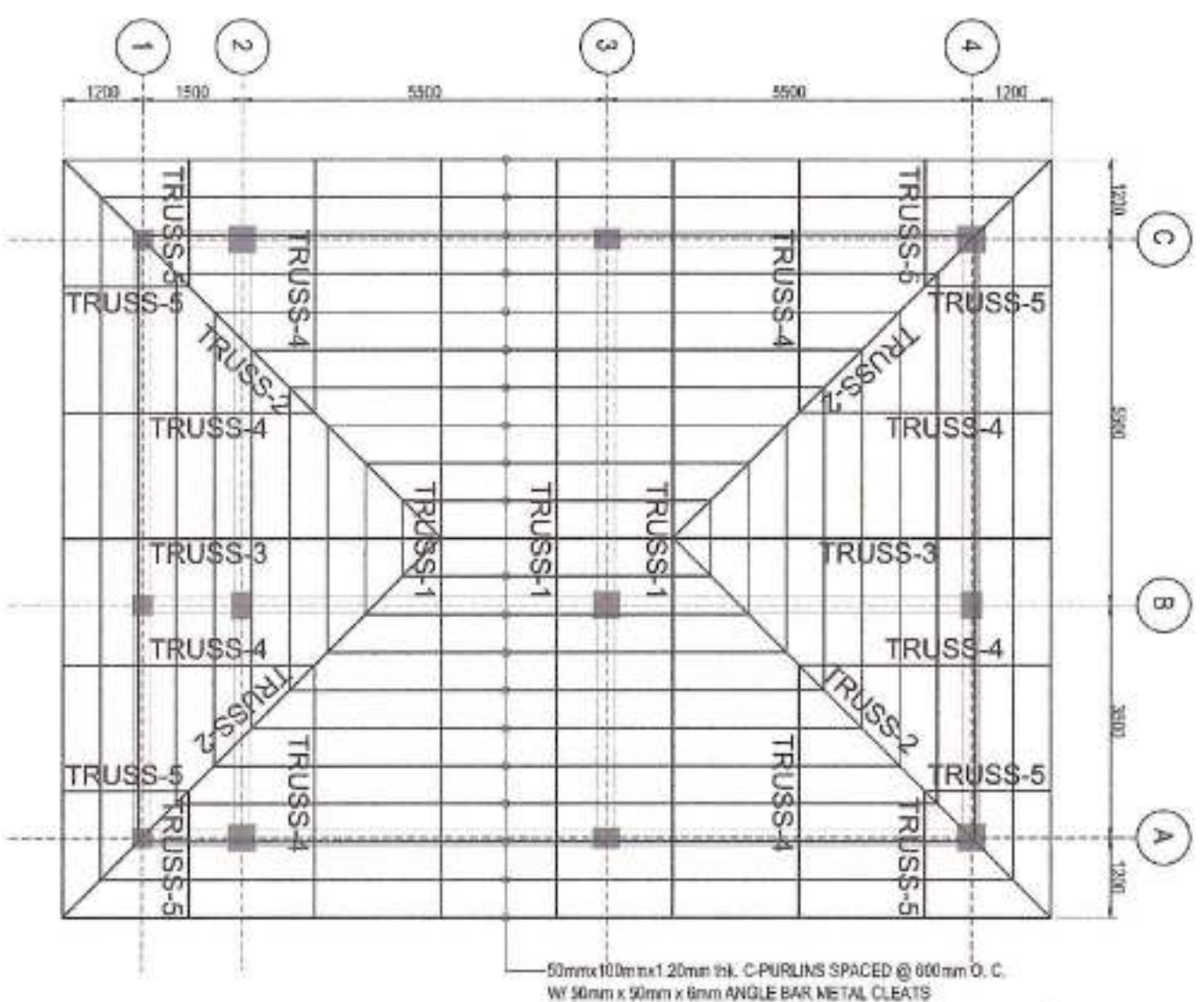
BENGUET STATE UNIVERSITY
 LA TRINIDAD, BENGUET
 OWNER

Leonardo T. Apilis
LEONARDO T. APILIS
 ENDR. ESPEL. / DIRECTOR, OPEN UNIVERSITY

Allan Casaldo Sacpa
ALLAN CASALDO SACPA
 VICE PRESIDENT, ADMINISTRATION AND FINANCE

Felipe Salming Comilla
FELIPE SALMING COMILLA
 PRESIDENT

S5
 SHEET NO. 05/14



TYPICAL ISOLATED FOOTING DETAILS

MARK	FOOTING DIMENSIONS				REINFORCEMENT				
	L, m	W, m	T, m	D, m	CONCRETE COVER, m	As1x(TOP)	As2z(TOP)	As1x(BOTTOM)	As2z(BOTTOM)
F1	3.20	3.20	0.40	3.00	0.075	N/A	N/A	13pcs. - Ø16mm	13pcs. - Ø16mm
F2	4.00	4.00	0.40	3.00	0.075	N/A	N/A	17pcs. - Ø16mm	17pcs. - Ø16mm

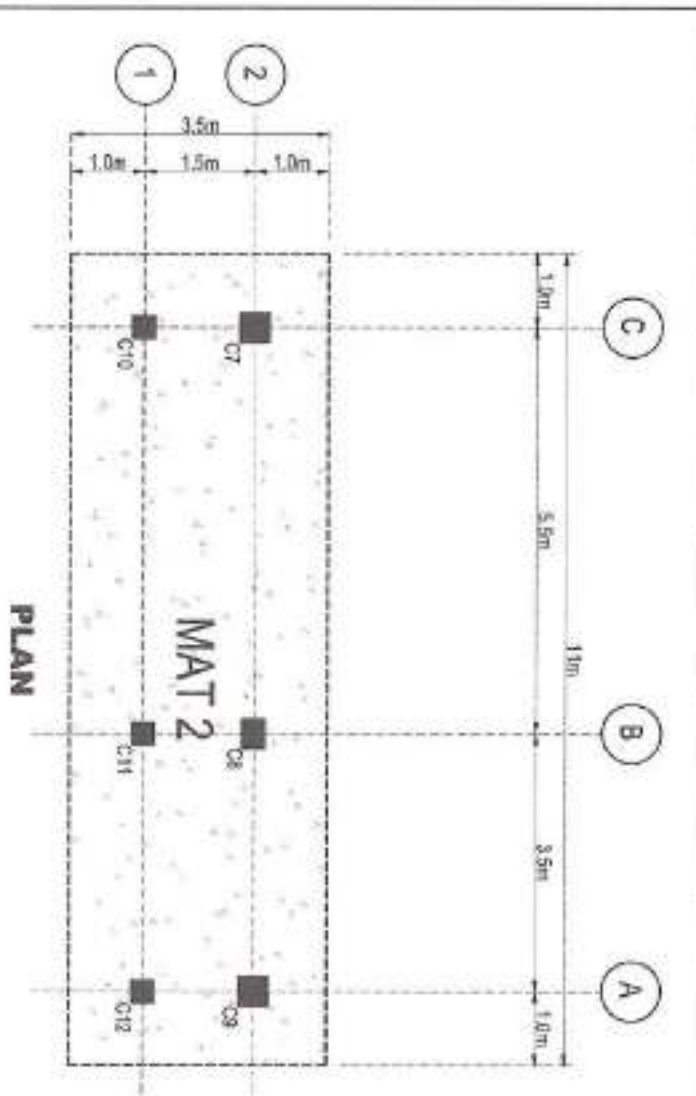
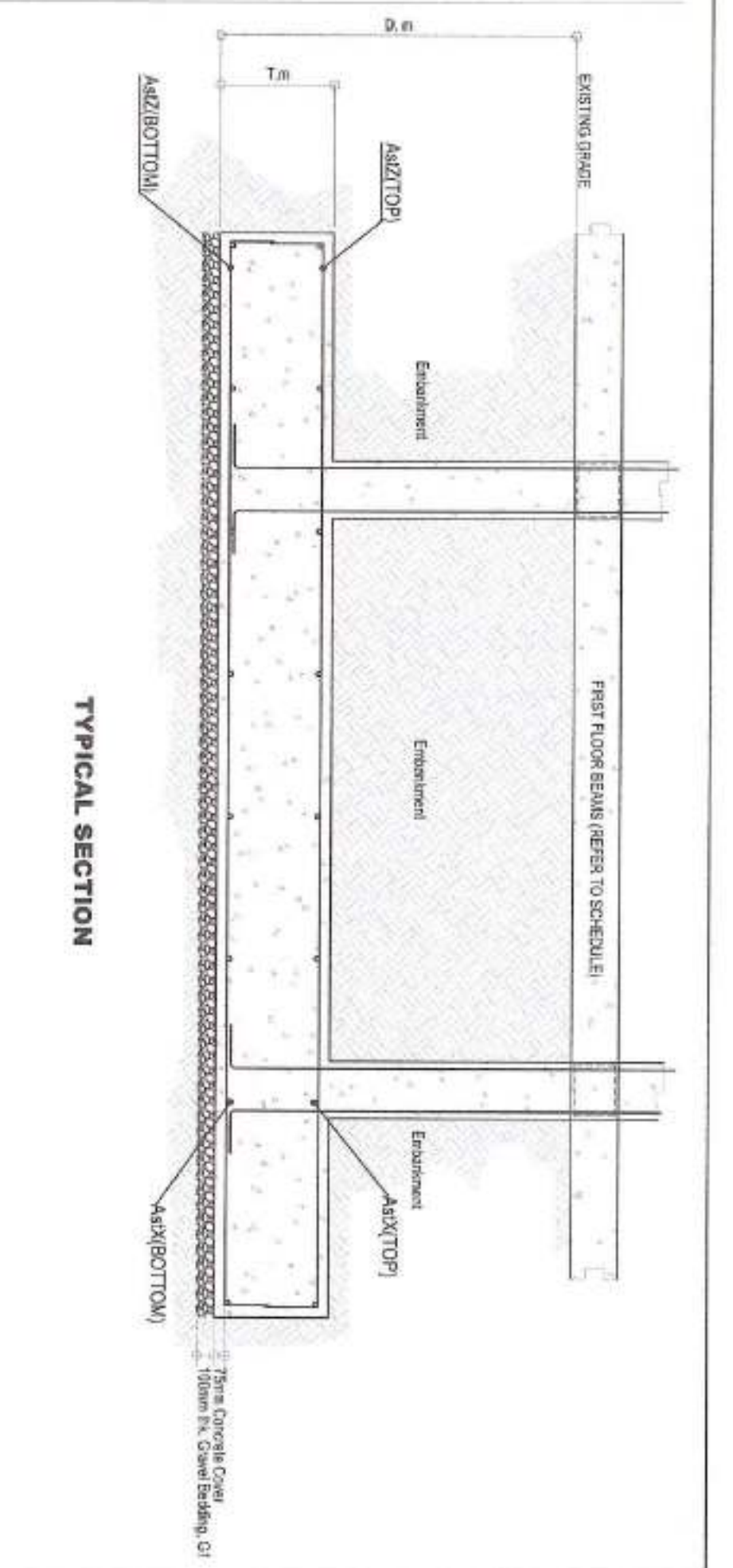
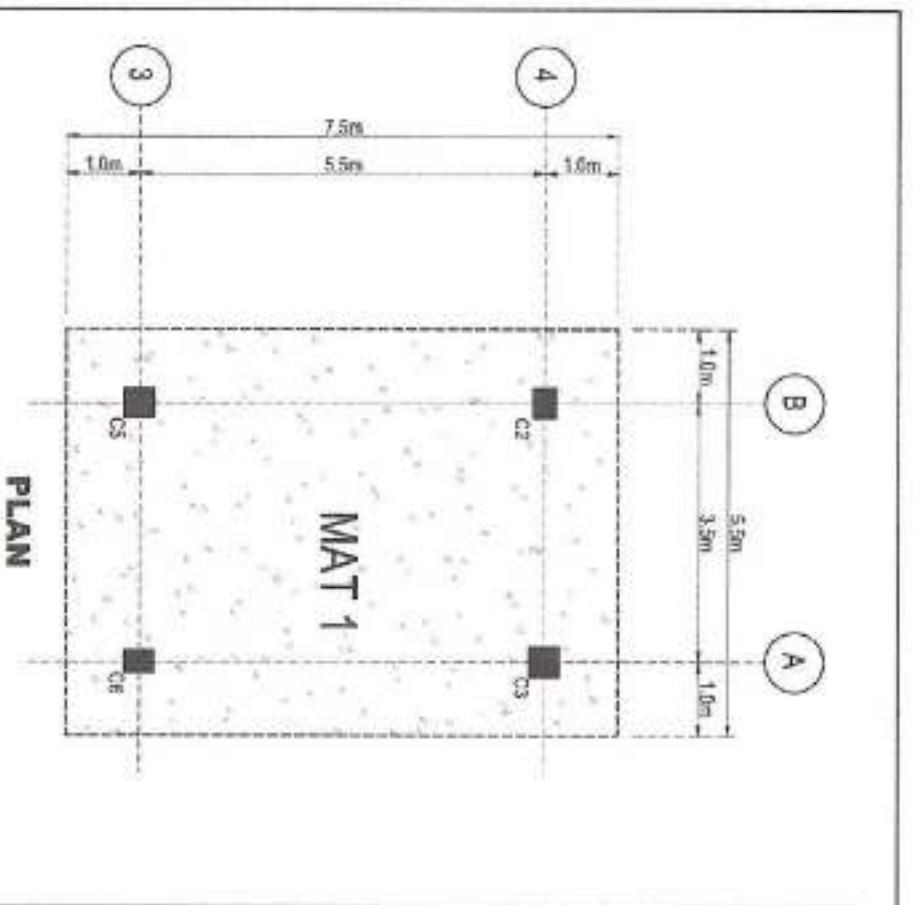
MATERIAL SPECIFICATION:
 CONCRETE $f_c = 3,500 \text{ PSI} (27.59 \text{ MPa}) @ 28 \text{ DAYS}$
 REINFORCING STEEL BAR $f_y = 40,000 \text{ PSI} (275.8 \text{ NPA}) \text{ GRADE 60 DEFORMED}$

ISOLATED FOOTING SCHEDULE

S ROOF FRAMING PLAN @ TOP CHORD LEVEL
 SCALE 1/6

S SCHEDULE OF ISOLATED FOOTINGS
 SCALE 1/100

 SHERIFF JOHN C. LA MADRID CIVIL ENGINEER REGISTERED PROFESSIONAL ENGINEER REG. NO. 12345 EXPIRES: JANUARY 2025	 HAZELINE N. TIBANGAY HEAD, PROJECT ADMINISTRATION UNIT	PROPOSED OPEN UNIVERSITY BUILDING (PHASE-1) (REG. ENGINEER: HAZELINE N. TIBANGAY) LICENSE NO. 12345	 BENQUELET STATE UNIVERSITY EASTERN PROVINCE BARANGAY: ... DISTRICT: ... PROVINCE: ...	 LEONARDO T. APILIS END USER / DIRECTOR, ADMINISTRATION AND FINANCE	 ALLAN CASALDO SACP VICE PRESIDENT - ADMINISTRATION AND FINANCE	 FELICE SALAINIG COMILLA PRESIDENT	SHEET NO. S6 06/14



Mark	FOUNDATION				REINFORCEMENT				
	L (m)	W (m)	T (m)	D (m)	Cover (m)	As2(T)	As2(T)	As1(X/B)	As2(B)
MAT 1	REFER TO PLAN	REFER TO PLAN	0.40	3.00	0.075	Ø16 @ 200 mm Equally Spaced Center-to-Center	Ø16 @ 200 mm Equally Spaced Center-to-Center	Ø16 @ 200 mm Equally Spaced Center-to-Center	Ø16 @ 200 mm Equally Spaced Center-to-Center
MAT 2	REFER TO PLAN	REFER TO PLAN	0.40	3.00	0.075	Ø16 @ 200 mm Equally Spaced Center-to-Center	Ø16 @ 200 mm Equally Spaced Center-to-Center	Ø16 @ 200 mm Equally Spaced Center-to-Center	Ø16 @ 200 mm Equally Spaced Center-to-Center

MATERIAL SPECIFICATION:
 CONCRETE $f_c = 3,500$ PSI (27.58 MPa) @ 28 DAYS
 REINFORCING STEEL BAR $f_y = 60,000$ PSI (427.58 MPa) GRADE 40 DEFORMED

S SCHEDULE OF MAT FOUNDATIONS
 SCALE 1/7

1:100

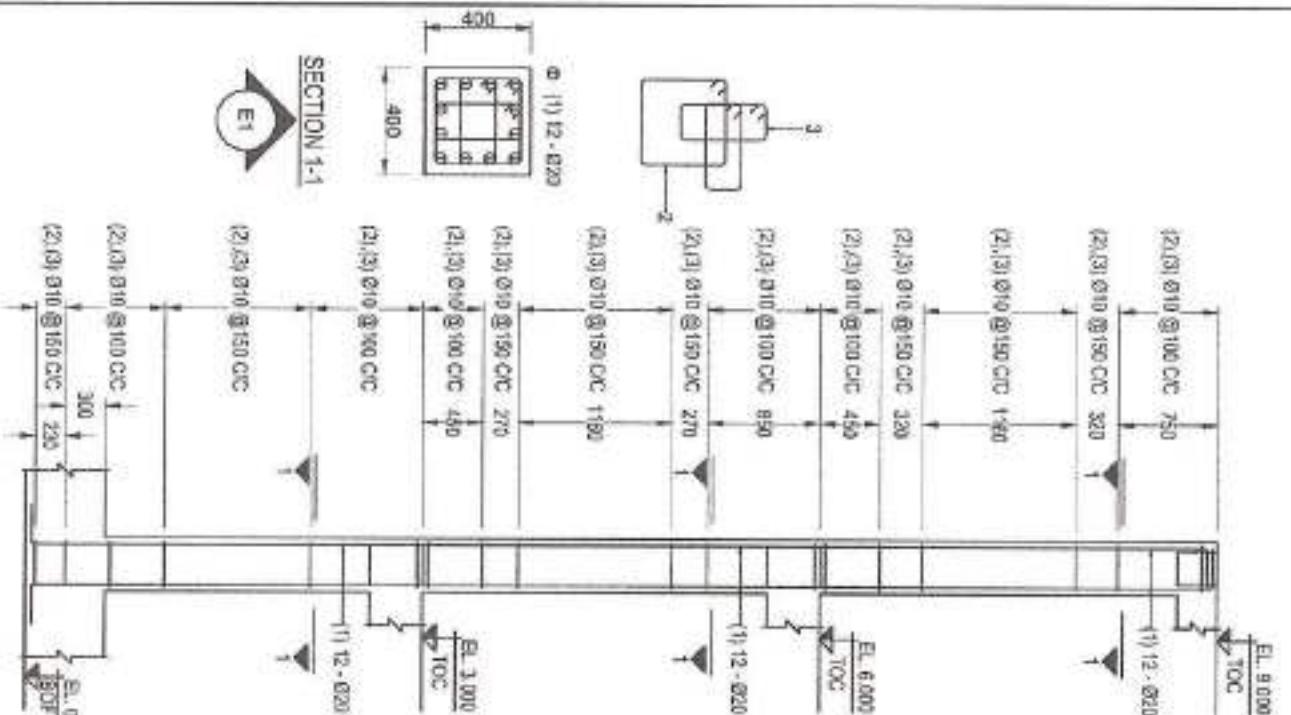
<p>SHERIPE JOHN C. LA MADRID LEVEL ENGINEER REGISTERED PROFESSIONAL ENGINEER REG. NO. 10808 REG. DATE 10/15/2010</p>	<p>HAZELTINE N. TIBANGAY HEAD PROJECT MANAGEMENT</p>	<p>PROPOSED OPEN UNIVERSITY BUILDING (PHASE-D) BICORPORATED, CALA LA TRINIDAD BENGUET PROJECT / LOCATION</p>	<p>BENGUET STATE UNIVERSITY LA TRINIDAD BENGUET AVENUE</p>	<p>LEONARDO T. APILIS END USER / DIRECTOR, OPEN UNIVERSITY</p>	<p>ALLAN CASALDO SARA VICE PRESIDENT, ADMINISTRATION AND FINANCE</p>	<p>FRANCIS SALANG COMILA PRESIDENT</p>	<p>SHEET NO. S7 07/14</p>
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6 M TO 9 M	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM
	Z1 MAIN LINK Ø10 @ 100	Z1 MAIN LINK Ø10 @ 75	Z1 MAIN LINK Ø10 @ 100	Z1 MAIN LINK Ø10 @ 100	Z1 MAIN LINK Ø10 @ 75	Z1 MAIN LINK Ø10 @ 75
3 M TO 6 M	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM
	Z1 MAIN LINK Ø10 @ 100	Z1 MAIN LINK Ø10 @ 75	Z1 MAIN LINK Ø10 @ 100	Z1 MAIN LINK Ø10 @ 100	Z1 MAIN LINK Ø10 @ 75	Z1 MAIN LINK Ø10 @ 75
0 M TO 3 M	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM	C27.58 : Fy414 , COVER = 40mm CONFINING ZONE = 450 MM
	Z1 MAIN LINK Ø10 @ 100	Z1 MAIN LINK Ø10 @ 75	Z1 MAIN LINK Ø10 @ 100	Z1 MAIN LINK Ø10 @ 100	Z1 MAIN LINK Ø10 @ 75	Z1 MAIN LINK Ø10 @ 75
COLUMN MARKED	C1, C3, C7, C9	C2, C4, C6, C8	C5	C10, C11, C12	STC	

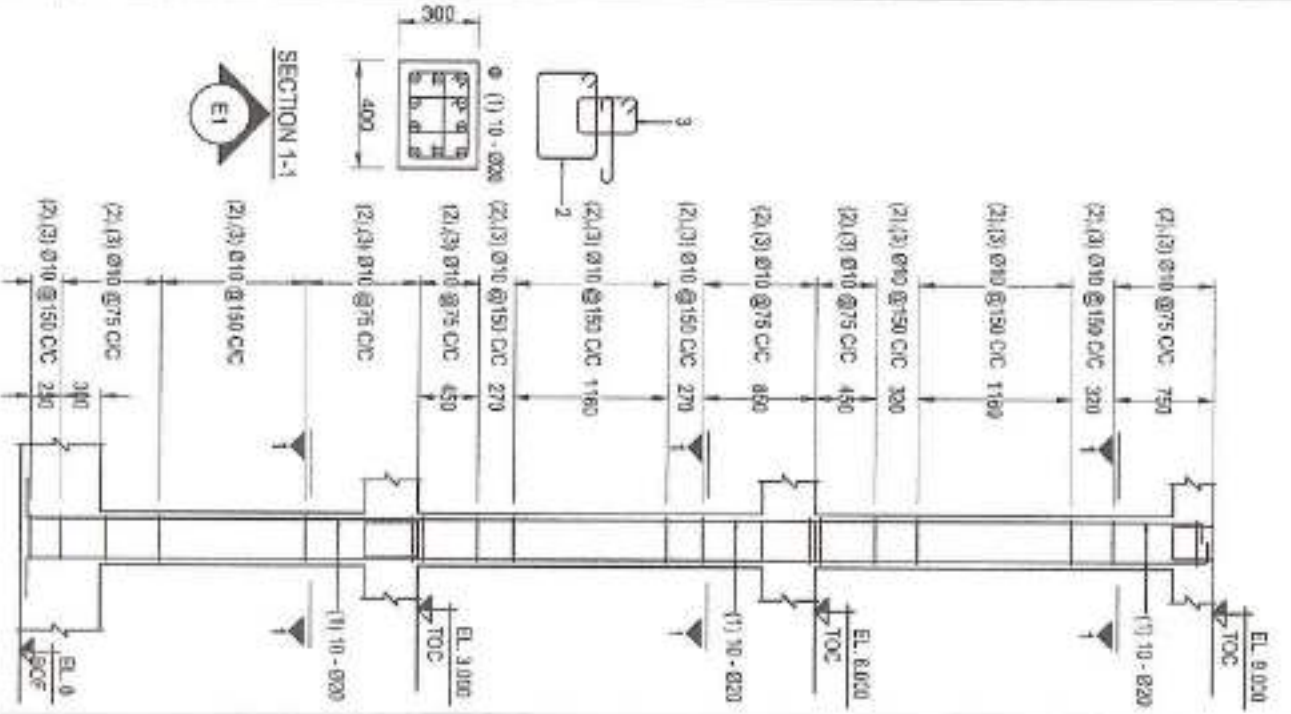
NOTES:
 1. BE = BOUNDARY ELEMENT AS PER NSCP C101 - 2015. PROVIDE CONFINING REINFORCEMENT ACROSS ENTIRE HEIGHT OF WALL IN THE BOUNDARY ELEMENT
 2. Z1 = SPECIAL CONFINING ZONE AS PER NSCP C101 - 2015. Z2 = REMAINING ZONES AS PER NSCP C101 - 2015

S COLUMN SCHEDULE
 SCALE 1:100

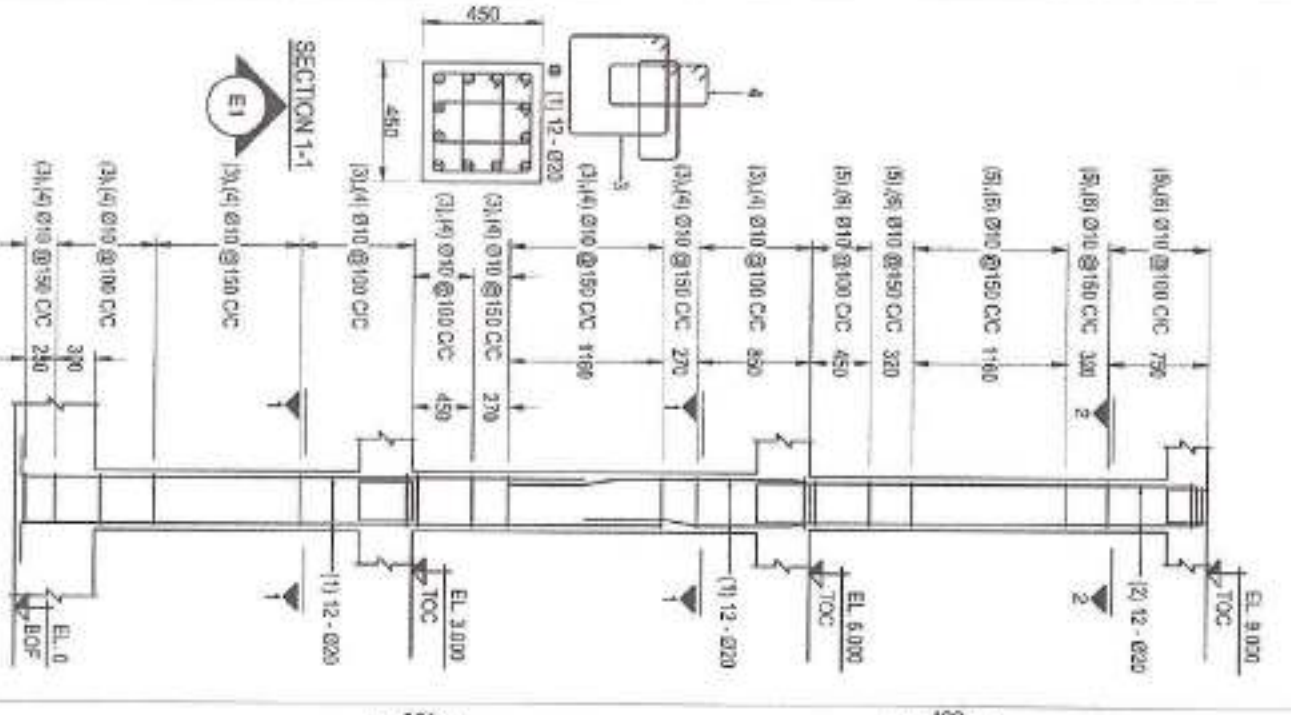
 SHERIFF JOHN C. LA MADRID CIVIL ENGINEER VALIDITY: JULY 07, 2025 REGISTERED PROFESSIONAL ENGINEER (PE) NO. 088008	 HAZELINE N. TIBANGAY LEAD PROJECT MANAGEMENT UNIT	 PROPOSED OPEN UNIVERSITY BUILDING (PHASE-D) NSI (CORPORATE) ASSESSMENT EXTENSIVE MONITORING PROPERTY / LOCATION	 BENGUET STATE UNIVERSITY LABORATORY AVENUE	 LEONARDO T. APILIS END USER / BUILDING / OPEN UNIVERSITY	 ALLAN CASALDO SACP VICE PRESIDENT / ADMINISTRATION / BENGUET	 FERRIS SKAMING COMILA PRESIDENT	SHEET NO. S8 08 14
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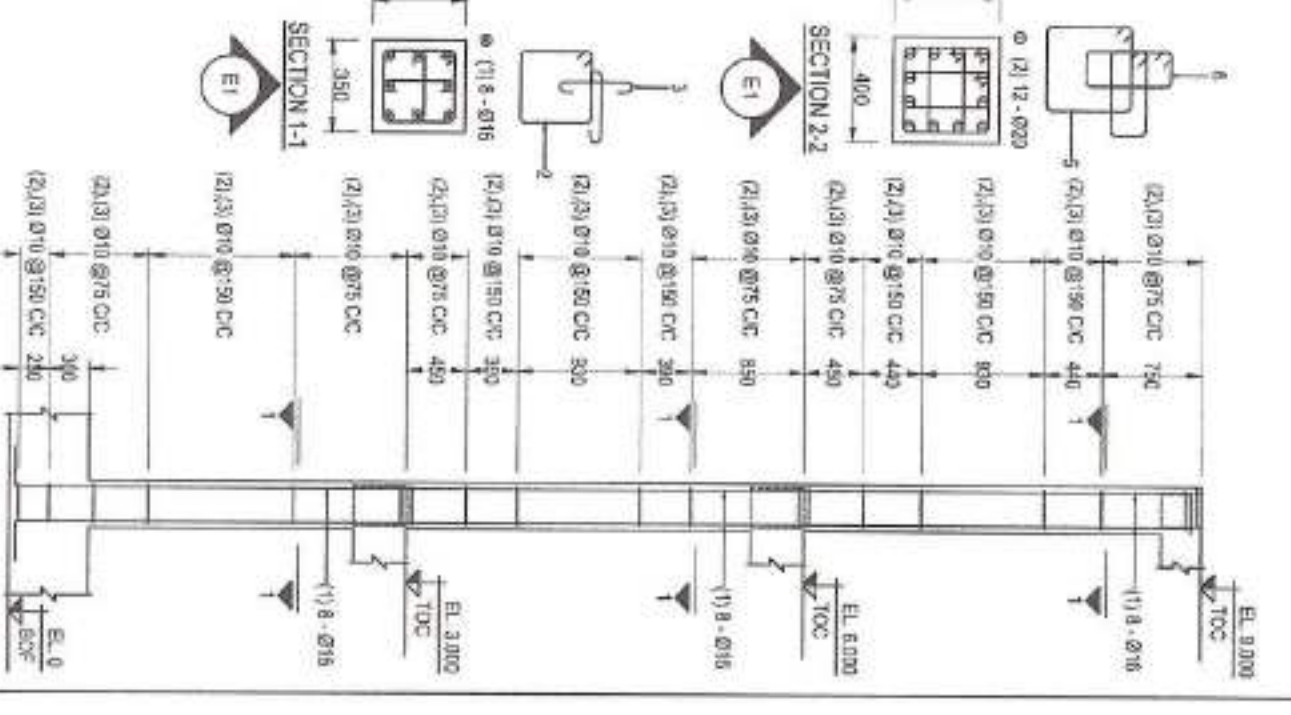
S DETAILS OF COLUMN C1,C3,C7,C9
 1 9 SCALE AS SHOWN



S DETAILS OF COLUMN C2, C8
 2 9 SCALE AS SHOWN



S DETAILS OF COLUMN C4, C5, C6
 3 9 SCALE AS SHOWN



S DETAILS OF COLUMN C10, C12
 4 9 SCALE AS SHOWN

S COLUMN DETAILS
 5 9 SCALE AS SHOWN

 SHERIFF JOHN C. LA MADRID CIVIL ENGINEER REGISTERED PROFESSIONAL ENGINEER REG. NO. 10000	 HAZELTINE N. TIBANGAY HEAD PROJECT MANAGER	 UNIVERSITY BUILDING (PHASE-I) 3RD COORDINATOR LATERAL ASSISTANT	 BENGUET STATE UNIVERSITY LA TRINIDAD CAMPUS	 LEONARDO T. APILIS END USER DIRECTOR-CENTRAL UNIVERSITY	 ALLAN CASALDO SACPA VICE PRESIDENT-ADMINISTRATION AND FINANCE	 FREDRICK S. MAING COMILLA PRESIDENT	SHEET NO. S9 09 14
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BEAM SCHEDULE (C24-FY276) (LEVEL: 3rd FIRST FLOOR)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STRIPS			SIDE FACE REB (SFR)	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	MID SPAN	LEFT	RIGHT			
B1	200	400	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	4-2L-Ø10@100 C/C	4-2L-Ø10@100 C/C	6-2L-Ø10@100 C/C	2-Ø12EF	-	-
B2	200	400	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-2L-Ø10@100 C/C	2-2L-Ø10@100 C/C	4-2L-Ø10@100 C/C	2-Ø12EF	-	-
B3	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	24-2L-Ø10@100 C/C	24-2L-Ø10@100 C/C	12-2L-Ø10@75 C/C	2-Ø12EF	-	-
B4	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	11-4L-Ø10@125 C/C	11-4L-Ø10@125 C/C	12-4L-Ø10@75 C/C	-	-	-
B5/B6/B8	250	300	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	8-2L-Ø10@125 C/C	8-2L-Ø10@125 C/C	10-2L-Ø10@125 C/C	-	-	-
B6	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	13-2L-Ø10@125 C/C	13-2L-Ø10@125 C/C	15-2L-Ø10@125 C/C	-	-	-
B7	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	8-2L-Ø10@125 C/C	8-2L-Ø10@125 C/C	10-2L-Ø10@125 C/C	-	-	-
B10	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	27-4L-Ø10@125 C/C	27-4L-Ø10@125 C/C	12-4L-Ø10@75 C/C	2-Ø12EF	-	-
B11	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	11-4L-Ø10@125 C/C	11-4L-Ø10@125 C/C	12-4L-Ø10@75 C/C	2-Ø12EF	-	-
B12	350	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	13-2L-Ø10@150 C/C	13-2L-Ø10@150 C/C	13-2L-Ø10@150 C/C	-	-	-
B13	350	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	7-2L-Ø10@150 C/C	7-2L-Ø10@150 C/C	9-2L-Ø10@150 C/C	-	-	-
B14	350	400	5-Ø16	5-Ø16	5-Ø16	5-Ø16	5-Ø16	5-Ø16	2-2L-Ø10@150 C/C	2-2L-Ø10@150 C/C	4-2L-Ø10@150 C/C	2-Ø12EF	-	-
B15	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	27-2L-Ø10@125 C/C	27-2L-Ø10@125 C/C	12-2L-Ø10@75 C/C	2-Ø12EF	-	-
B16	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	27-2L-Ø10@125 C/C	27-2L-Ø10@125 C/C	12-2L-Ø10@75 C/C	2-Ø12EF	-	-
B17	250	400	3-Ø16	3-Ø16	3-Ø16	3-Ø16	3-Ø16	3-Ø16	13-2L-Ø10@125 C/C	13-2L-Ø10@125 C/C	15-2L-Ø10@125 C/C	-	-	-
B18	250	400	3-Ø16	3-Ø16	3-Ø16	3-Ø16	3-Ø16	3-Ø16	13-2L-Ø10@125 C/C	13-2L-Ø10@125 C/C	15-2L-Ø10@125 C/C	2-Ø12EF	-	-
B19	250	400	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-2L-Ø10@125 C/C	2-2L-Ø10@125 C/C	4-2L-Ø10@125 C/C	2-Ø12EF	-	CANTILEVERED
B20	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	3-2L-Ø10@125 C/C	3-2L-Ø10@125 C/C	5-2L-Ø10@125 C/C	2-Ø12EF	-	-
B21	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	13-2L-Ø12@125 C/C	13-2L-Ø12@125 C/C	15-2L-Ø12@125 C/C	3-Ø12EF	-	-
B22	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	13-2L-Ø10@125 C/C	13-2L-Ø10@125 C/C	15-2L-Ø10@125 C/C	2-Ø12EF	-	-
B23	250	400	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-2L-Ø12@125 C/C	2-2L-Ø12@125 C/C	4-2L-Ø12@125 C/C	3-Ø12EF	-	CANTILEVERED
B24	200	400	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	3-2L-Ø10@100 C/C	3-2L-Ø10@100 C/C	5-2L-Ø10@100 C/C	2-Ø12EF	-	CANTILEVERED
B25	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	3-2L-Ø10@125 C/C	3-2L-Ø10@125 C/C	5-2L-Ø10@125 C/C	2-Ø12EF	-	-
B26	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	34-4L-Ø12@100 C/C	34-4L-Ø12@100 C/C	12-4L-Ø12@75 C/C	3-Ø12EF	-	-
B27	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	4-Ø16	27-4L-Ø10@125 C/C	27-4L-Ø10@125 C/C	12-4L-Ø10@75 C/C	2-Ø12EF	-	-

SHERIFF JOHN C. LA MADRID
CIVIL ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 REG. NO. 10039

HAZELINE N. TIBANGAY
HEAD PROJECT MANAGER/ENGINEER

PROPOSED OPEN UNIVERSITY BUILDING (PHASE-1)
INS. CHIEF/INS. ENCL. EA. TIBANGAY, MENSURER

BENGUET STATE UNIVERSITY
LA TRINIDAD ROAD



OWNER

LEONARDO T. APILIS
END USER/ DIRECTOR-GENERAL UNIVERSITY



ALLAN CASAIIDO SACPA
HEAD DESIGNER ARCHITECTURE AND DRAWING

PRINCIPAL



FELINA SALMING COMILA
PRINCIPAL

SHEET NO. **S10**
10/14

BEAM SCHEDULE (C28-FY276) (LEVEL: 6 m *SECOND FLOOR)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS				SIDE FACE RSB (RFR)	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT				
B1	200	400	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	4-2L-Ø10@100 C/C	5-2L-Ø10@100 C/C	2-Ø12EF	-	-	-	
B2, B5	350	400	5-Ø16 2-Ø16	5-Ø16 2-Ø16	5-Ø16 2-Ø16	4-Ø20 4-Ø20	4-Ø20 4-Ø20	4-Ø20 4-Ø20	12-4L-Ø10@75 C/C	12-4L-Ø10@75 C/C	-	-	-	-	
B3	300	400	4-Ø16	4-Ø16	4-Ø16	4-Ø20 4-Ø20	3-Ø16 2-Ø16	3-Ø16 2-Ø16	11-2L-Ø12@125 C/C	12-2L-Ø12@75 C/C	2-Ø12EF	-	-	-	
B4, B7, B8	300	300	3-Ø16	3-Ø16	3-Ø16	4-Ø16	4-Ø16	4-Ø16	8-2L-Ø10@125 C/C	10-2L-Ø10@125 C/C	-	-	-	-	
B6	350	400	5-Ø16	5-Ø16	5-Ø16	5-Ø16 2-Ø16	5-Ø16 4-Ø16	5-Ø16 4-Ø16	14-2L-Ø12@100 C/C	12-2L-Ø12@75 C/C	-	-	-	-	
B6, B10	350	400	5-Ø16	3-Ø16	3-Ø16	5-Ø16 4-Ø16	5-Ø16	5-Ø16	14-2L-Ø10@100 C/C	12-2L-Ø10@75 C/C	2-Ø12EF	-	-	-	
B11	350	400	3-Ø16	3-Ø16	3-Ø16	4-Ø16	4-Ø16	4-Ø16	11-2L-Ø10@150 C/C	13-2L-Ø10@150 C/C	-	-	-	-	
B12	350	400	3-Ø16	3-Ø16	3-Ø16	4-Ø16	4-Ø16	4-Ø16	7-2L-Ø10@150 C/C	9-2L-Ø10@150 C/C	-	-	-	-	
B13, B20	350	400	3-Ø16	3-Ø16	3-Ø16	4-Ø20	4-Ø20 4-Ø16	4-Ø20 4-Ø16	2-2L-Ø10@150 C/C	4-2L-Ø10@150 C/C	-	-	-	-	
B14, B21	350	400	5-Ø16 2-Ø16	5-Ø16 2-Ø16	5-Ø16 2-Ø16	4-Ø20 4-Ø16	4-Ø20 4-Ø16	4-Ø20 4-Ø16	27-4L-Ø10@125 C/C	12-4L-Ø10@75 C/C	4-Ø12EF	-	-	-	
B15, B22	350	400	5-Ø16 2-Ø16	5-Ø16 2-Ø16	5-Ø16 2-Ø16	4-Ø20 4-Ø16	4-Ø20 2-Ø16	4-Ø20 2-Ø16	40-2L-Ø10@75 C/C	12-2L-Ø10@75 C/C	2-Ø12EF	-	-	-	
B16, B27	300	400	3-Ø20 2-Ø20	3-Ø20 2-Ø20	3-Ø20 2-Ø20	3-Ø16	3-Ø16	3-Ø16	13-2L-Ø10@125 C/C	15-2L-Ø10@125 C/C	2-Ø12EF	-	-	-	
B18	250	400	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-2L-Ø10@125 C/C	4-2L-Ø10@125 C/C	2-Ø12EF	-	-	CANTILEVERED	
B19	200	400	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-Ø16	2-2L-Ø10@125 C/C	2-2L-Ø10@125 C/C	2-Ø12EF	-	-	CANTILEVERED	
B24	300	400	4-Ø16	4-Ø16	4-Ø16	3-Ø20	3-Ø20	3-Ø20	3-2L-Ø10@125 C/C	5-2L-Ø10@125 C/C	2-Ø12EF	-	-	-	
B25	300	400	4-Ø16 2-Ø16	4-Ø16 2-Ø16	4-Ø16 2-Ø16	3-Ø20 3-Ø20	3-Ø20 3-Ø20	3-Ø20 3-Ø20	46-2L-Ø12@75 C/C	12-2L-Ø12@75 C/C	3-Ø12EF	-	-	-	
B28	300	400	4-Ø16 2-Ø16	4-Ø16 2-Ø16	4-Ø16 2-Ø16	3-Ø20 3-Ø20	2-Ø20 3-Ø20	3-Ø20 3-Ø20	46-2L-Ø12@75 C/C	12-2L-Ø12@75 C/C	2-Ø12EF	-	-	-	

SLAB SCHEDULE (C28 : FY227) (LEVEL : 3 M *FIRST FLOOR)

MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT				REMARKS	
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT			
		FULL LENGTH	CURTAINED	FULL LENGTH	CURTAINED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT	DISTRIBUTION	
S1, S2	100	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	---
S3, S4, S9	100	#10 @ 300 C/C	#10 @ 300 C/C	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	---
S5, S10	100	#10 @ 300 C/C	#10 @ 300 C/C	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---
S6, S8, S11	100	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---
S7	100	#10 @ 300 C/C	#10 @ 300 C/C	#10 @ 300 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---
S12	100	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---
S13	100	#10 @ 150 C/C	---	#10 @ 300 C/C	#10 @ 300 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	---



Sheriff JOHN C. LA MADRID
CIVIL ENGINEER
VALIENTE DRIVE 2, 208
8810 JAVILLA 1, 202



HAZELLE N. TIBANGAY
BSAD PROJECT MANAGER/ADMINISTRATIVE



BENQUELET STATE UNIVERSITY
LATERAL BUILDING

PROPOSED OPEN UNIVERSITY BUILDING (PHASE-1)
NSI GOVERNING BOARD
LATERAL BUILDING HESHERY



BENQUELET STATE UNIVERSITY
LATERAL BUILDING

OWNER

END USER/DIRECTOR: OPEN UNIVERSITY



LEONARDO T. APILIS

ARCHITECT: ADMINISTRATIVE AND FINANCE

PROJECT / LOCATION



ALLAN CASALDO SACPA

PRESIDENT

PROJECT / LOCATION



BEBE SALMING COMILLA

PRESIDENT

SHEET NO. **S11**
11 | 14

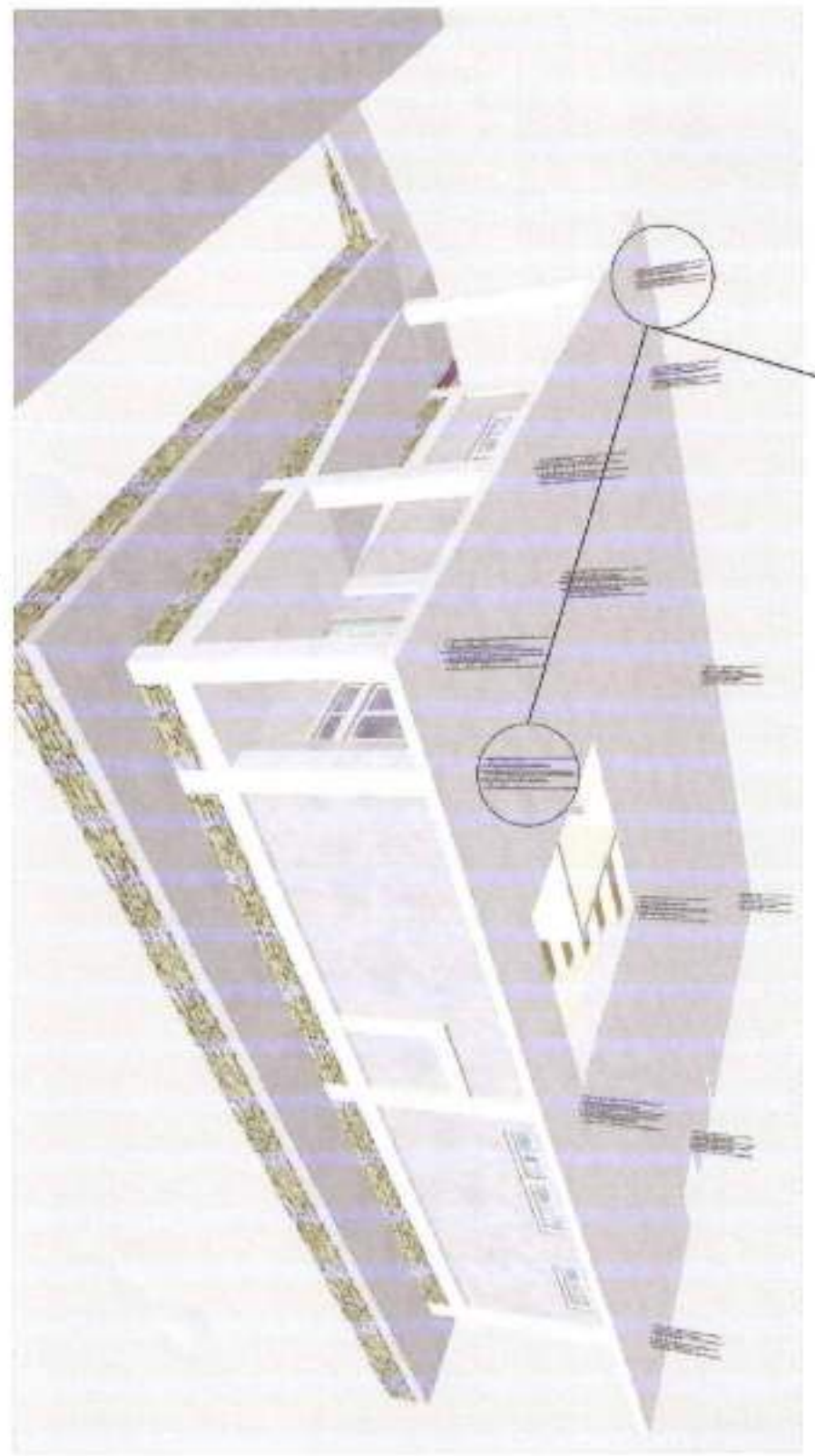
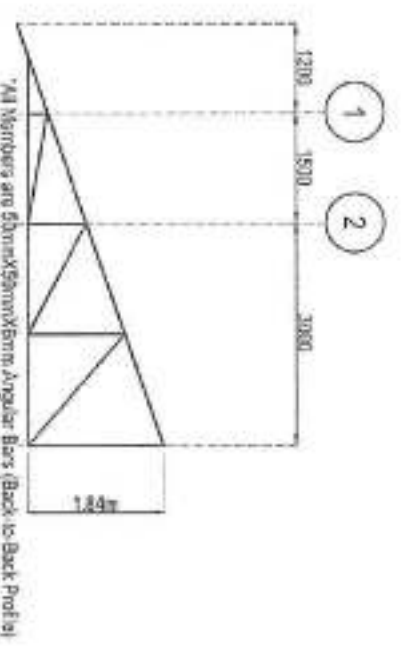
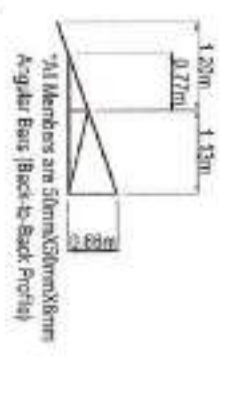
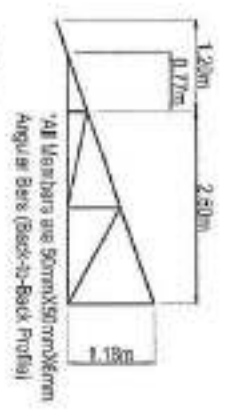
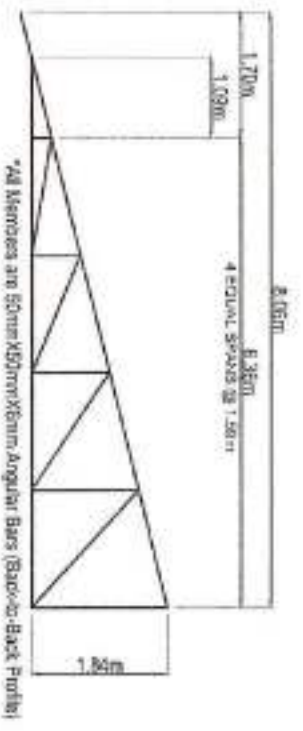
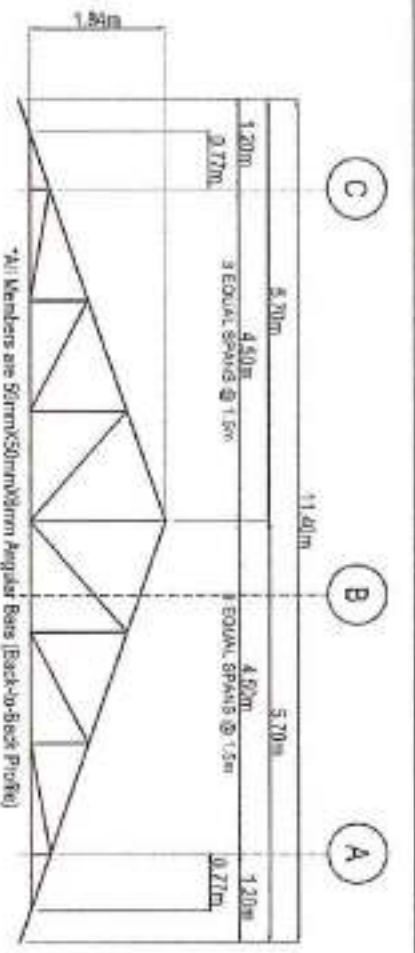
BEAM SCHEDULE (C21:FY276) (LEVEL: 9 m (ROOF BEAMS))

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SIDE FACE RSB (SFR)	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
B1	250	400	3-Ø12	2-Ø12	3-Ø12	3-Ø16	2-Ø16	2-Ø16	17-2L-Ø10@50 C/C	27-2L-Ø10@125 C/C	17-2L-Ø10@50 C/C	-	-	-
B2	250	400	3-Ø12	2-Ø12	2-Ø12	2-Ø16	2-Ø16	2-Ø16	17-2L-Ø10@50 C/C	11-2L-Ø10@125 C/C	17-2L-Ø10@50 C/C	-	-	-
B3,B13,B14	250	400	3-Ø12	3-Ø12	3-Ø12	3-Ø12	2-Ø12	3-Ø12	17-2L-Ø10@50 C/C	28-2L-Ø10@125 C/C	17-2L-Ø10@50 C/C	-	-	-
B4	250	400	3-Ø12	2-Ø12	3-Ø12	3-Ø12	2-Ø12	3-Ø12	17-2L-Ø10@50 C/C	12-2L-Ø10@125 C/C	17-2L-Ø10@50 C/C	-	-	-
B5,B10,B11,B16,B17	250	400	3-Ø12	2-Ø12	3-Ø12	3-Ø12	2-Ø12	3-Ø12	17-2L-Ø10@50 C/C	27-2L-Ø10@125 C/C	17-2L-Ø10@50 C/C	-	-	-
B6	250	400	3-Ø12	2-Ø12	3-Ø12	3-Ø12	2-Ø12	3-Ø12	17-2L-Ø10@50 C/C	11-2L-Ø10@125 C/C	17-2L-Ø10@50 C/C	-	-	-
B7	250	400	2-Ø12	2-Ø12	2-Ø12	3-Ø12	2-Ø12	3-Ø12	17-2L-Ø10@50 C/C	28-2L-Ø10@125 C/C	17-2L-Ø10@50 C/C	-	-	-
B8	250	400	2-Ø12	2-Ø12	2-Ø12	3-Ø12	2-Ø12	3-Ø12	17-2L-Ø10@50 C/C	12-2L-Ø10@125 C/C	17-2L-Ø10@50 C/C	-	-	-
B9	240	400	3-Ø12	2-Ø12	3-Ø12	3-Ø12	2-Ø12	3-Ø12	13-2L-Ø12@50 C/C	-	13-2L-Ø12@50 C/C	-	-	-
B12	250	400	2-Ø12	2-Ø12	3-Ø12	3-Ø12	2-Ø12	3-Ø12	14-2L-Ø10@50 C/C	-	14-2L-Ø10@50 C/C	-	-	-
B15	250	400	2-Ø12	2-Ø12	3-Ø12	2-Ø12	2-Ø12	3-Ø12	13-2L-Ø10@50 C/C	-	13-2L-Ø10@50 C/C	-	-	-

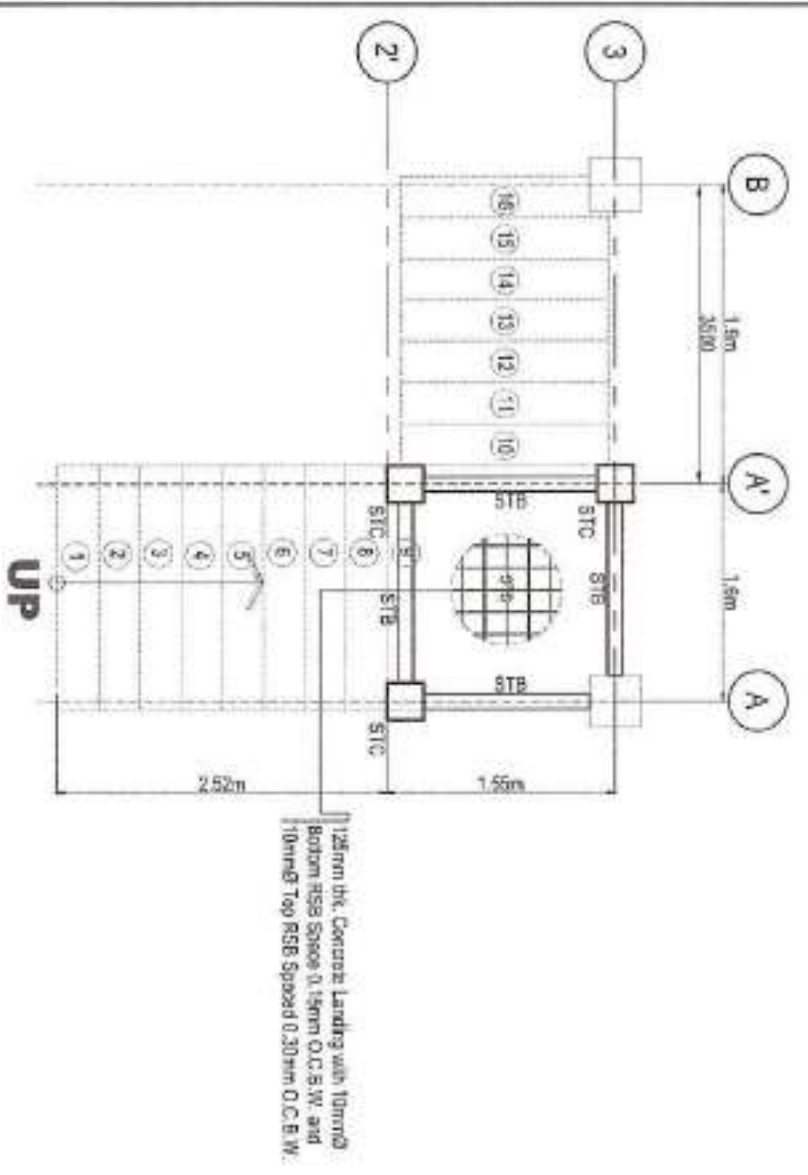
SLAB SCHEDULE (C27.58 : FY227) (LEVEL : 6 M *SECOND FLOOR)

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT				REMARKS	
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT			
		FULL LENGTH	CURTAINED	FULL LENGTH	CURTAINED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT	DISTRIBUTION	
S1	100	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	---
S2, S6	100	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	---
S3, S10, S14, S16	100	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	---
S4	100	#10 @ 300 C/C	#10 @ 300 C/C	#10 @ 150 C/C	---	#10 @ 145 C/C	#10 @ 150 C/C	#10 @ 135 C/C	#10 @ 150 C/C	#10 @ 150 C/C	---
S5	100	#10 @ 300 C/C	#10 @ 300 C/C	#10 @ 150 C/C	---	#10 @ 150 C/C	---	---	#10 @ 150 C/C	#10 @ 150 C/C	---
S7	100	#18 @ 125 C/C	---	#18 @ 125 C/C	---	---	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	---
S8, S11	100	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	---
S12	100	#10 @ 300 C/C	#10 @ 300 C/C	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	#10 @ 150 C/C	---
S13	100	#10 @ 150 C/C	---	#10 @ 150 C/C	---	---	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	---
S15	100	#10 @ 150 C/C	---	#10 @ 300 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	---
S17	100	#10 @ 150 C/C	---	#10 @ 300 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	---	#10 @ 150 C/C	#10 @ 150 C/C	CANTILEVERED

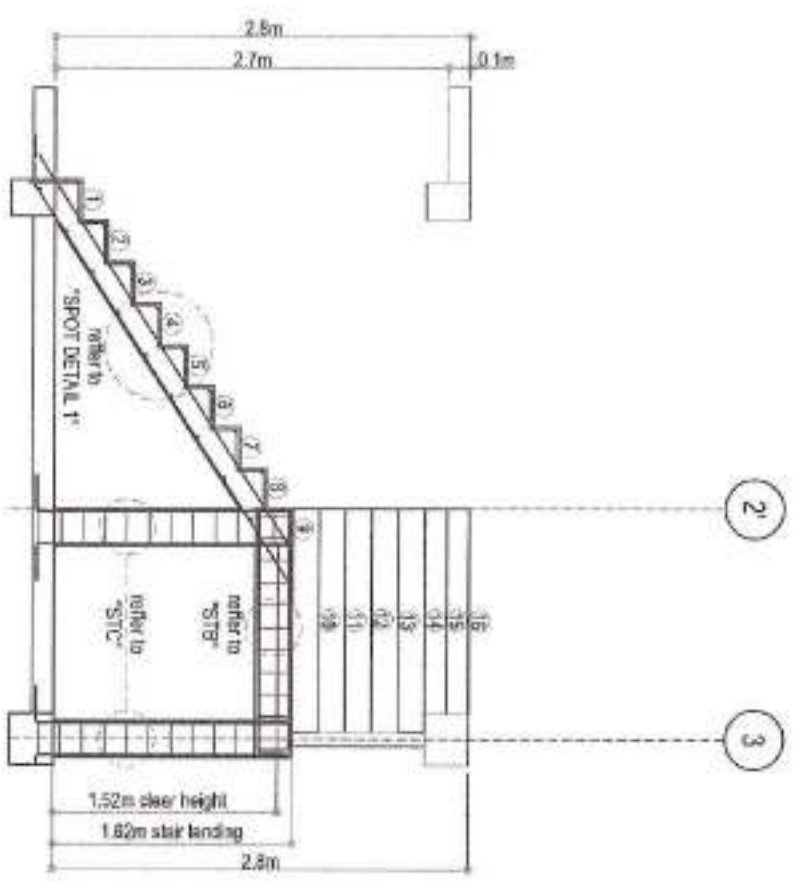
 SHERIFF JOHN C. LA MADRID CIVIL ENGINEER VALIDATED: JOHN P. ALAN REG. NO. 14228	 HAZELJIN N. TIBANGAY HEAD, PROJECT MANAGEMENT UNIT	PROPOSED OPEN UNIVERSITY BUILDING (PHASE-I) 880 CLOAKING ROAD EXHA LATIPANGAN BUNGET PROJECT / LOCATION	 BENGUET STATE UNIVERSITY UNIVERSITY BOULEVARD BUNGET OWNER	END USER, DIRECTOR OPEN UNIVERSITY LEONARDO T. APILIS LEONARDO T. APILIS	THE PERSONNEL ADMINISTRATOR (SR) PERSONAL ALLAN CASALDO SACPA ALLAN CASALDO SACPA	SHEET NO. S12 12 14
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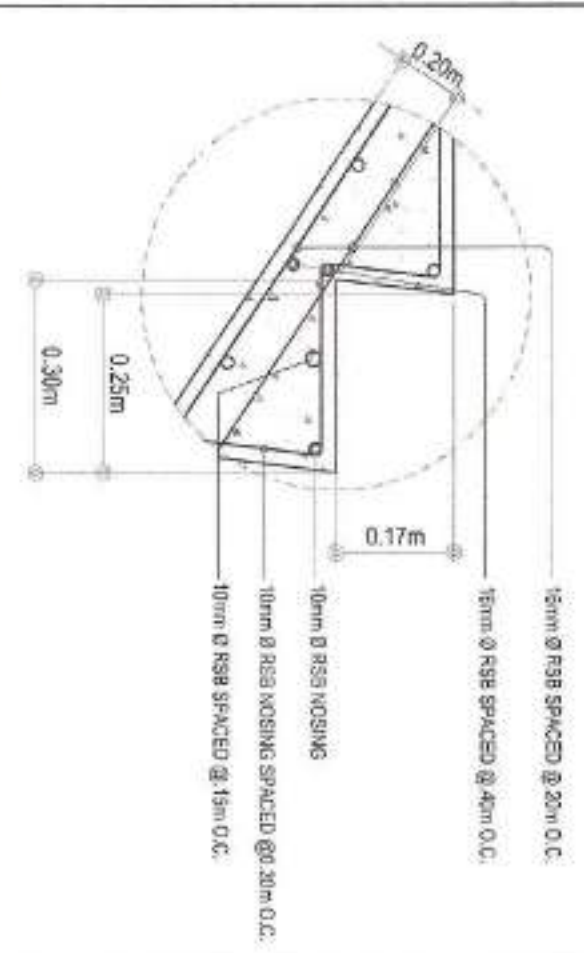
 SHERIF JOHN C. LA MADRID CIVIL ENGINEER REGISTERED PROFESSIONAL ENGINEER REG. NO. 13103 REGISTERED IN THE PHILIPPINES	 HAZELNIN N. TIBANGGAY HEAD, PROJECT MANAGEMENT UNIT	PROPOSED OPEN UNIVERSITY BUILDING (PHASE-I) 1887 CORONADO ROAD, LA TRINIDAD, BENGUET	 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET	 LEONARDO T. APILIS UND ESAB, DIRECTOR FOR OPEN UNIVERSITY	 ALLAN CASALDO SACCPA VICE-PROVINCIAL ADMINISTRATOR AND FINANCER	 SALAINIG COMILLA PRESIDENT	S13 13 14



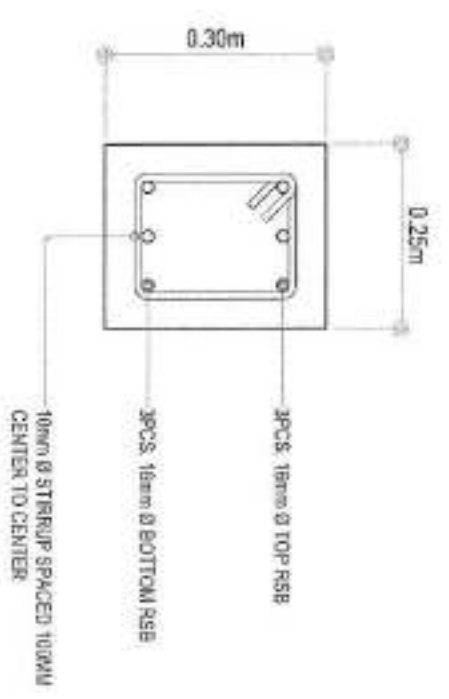
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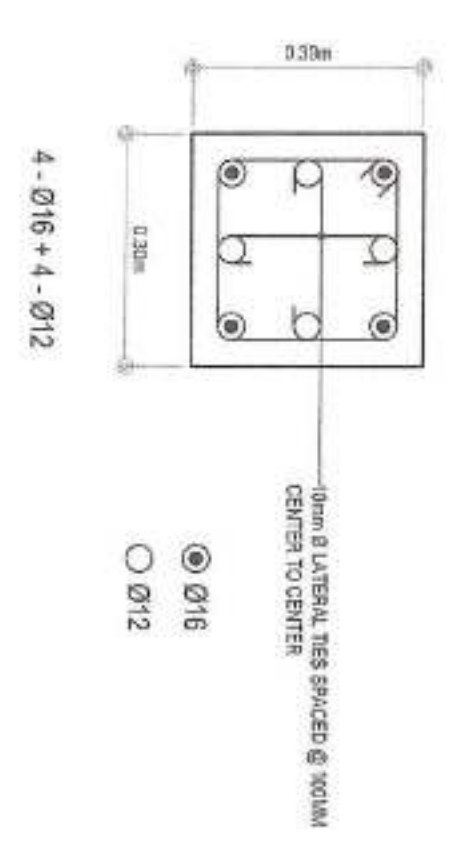
S STAIR SECTION DETAILS
SCALE 2/14 AS SHOWN



S SPOT DETAIL 1
SCALE 3/14 AS SHOWN



S DETAIL OF STB
SCALE 4/14 AS SHOWN



S DETAILS OF STC
SCALE 5/14 AS SHOWN

 SHERIFF JOHN C. LA MADRID CIVIL ENGINEER REGISTERED PROFESSIONAL ENGINEER REG. NO. 00000	 HAZELINE N. TRIBANGAY HEAD PROJECT MANAGER/ARCHITECT	 UNIVERSITY BUILDING (PHASE-D) 3RD COLUMN AND L.A.L. LA TRIBANGAY ARCHITECT PROJECT / LOCATION	 BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET C/ENRIB	 LEONARDO T. APILIS END USER / DIRECTOR (OPEN UNIVERSITY)	 ALLAN CASAIIDO SACPA VICE PRESIDENT, ADMINISTRATION AND FINANCE	 REGINO SALAMING COMILLA PRESIDENT	S14 14/14 SHEET NO.
PROPOSED OPEN UNIVERSITY BUILDING (PHASE-D)		BENGUET STATE UNIVERSITY		END USER / DIRECTOR (OPEN UNIVERSITY)		VICE PRESIDENT, ADMINISTRATION AND FINANCE	