

## TERMS OF REFERENCE

Local Contractor for Site Preparation, Foundation, Assembly and Finishing Works for CBFT Pilot Housing Units



SWISS  
FOUNDATION  
FOR TECHNICAL  
COOPERATION

We are a leading organisation for the implementation of international development projects. We promote inclusive economic, social and ecological development to make an effective contribution towards sustainable and widespread prosperity in developing and emerging economies.

### INTRODUCTION

Swisscontact was established in 1959 as an independent foundation by notable figures from the worlds of commerce and science in Switzerland. It is exclusively involved in international development co-operation and has carried out its own and mandated projects since 1961.

Swisscontact's working principles include inclusive systems development, learning culture, evidence-based adaptive management, and engaging private sector. In addition, the organisation's criteria comprise of gender equality and social inclusion, financial capability, environmental responsibility, and good governance.

### BACKGROUND

Bangladesh faces a growing housing challenge driven by climate vulnerability, increasing construction costs, and limited access to affordable yet durable housing solutions.

While bamboo remains widely available and culturally familiar, its use in formal construction remains limited due to systemic gaps, including:

- Limited treatment and processing capacity;
- Absence of recognised engineering standards;
- Lack of construction-grade fabrication systems;
- Weak integration with formal construction markets;
- Limited technical know-how among construction actors.

The Cement Bamboo Frame Technology (CBFT), developed and proven by Base Bahay, offers an opportunity to reposition bamboo as an engineered construction material suitable for affordable housing.

Swisscontact is implementing the project "Piloting CBFT as an Affordable Housing Solution in Bangladesh". The project aims to pilot and validate CBFT as a viable, affordable, and scalable housing solution in Bangladesh. The project will facilitate construction of ten (10) CBFT housing units across selected locations while simultaneously strengthening the technical, market, and institutional ecosystem required for scaling regenerative housing solutions. This Request for Proposal (RfP) covers only the first phase of implementation, specifically the construction of three (3) duplex units (serving six households) in Rangunia, Chattogram. Additional construction packages may be procured separately as the project progresses.

As part of the implementation, Swisscontact invites proposals from qualified local, national and multi-national firms and service providers interested in the foundation, site preparation, on-site assembly support, finishing, utilities, and handover support for CBFT duplex units.

## **SCOPE OF ENGAGEMENT**

### **Site preparation**

- Safety and health compliance
- Site cleaning
- Layout marking
- Temporary storage/work area
- Basic site safety arrangements
- Coordination with Swisscontact, Base Bahay, fabricator, and local administration

### **Foundation and plinth works**

- Layout and staking
- Excavation
- Compacted soil preparation
- Gravel bedding
- Concrete hollow blocks or Brick Laying
- Plumbing/electrical rough ins
- Stairs/steps
- Straps/dowels installation
- Slab on fill
- Wall footing/plinth beam/ring beam/stiffener column works
- Water proofing and termination of plasters (low wall)
- Reinforcement placement
- Termite treatment where specified
- Curing and quality control
- The drawings include foundation details, slab on fill, 50 mm gravel bedding, 75 mm slab on fill with wire mesh, compacted soil, termite treatment, wall footing, plinth and stiffener column details.
- Other related work for completion (variation order)

### **On-site assembly support**

- Storage and safe keeping
- QA/QC compliance
- Scaffoldings and platforms
- Receiving prefabricated CBFT panels
- Mortar fill
- Assisting installation under Base Bahay/technical supervision
- Fixing support, bracing, alignment, and connection works
- Coordination with panel fabricator
- Other related works for completion (variation order)

### **Roofing, cladding and finishing**

- Roof installation support
- Wall finishing/cladding works
- Curing
- Doors/windows coordination
- Internal/external finishing as per drawings
- Basic repair/punch-list works
- Scaffoldings and platforms
- QA/QC compliance
- Other related works for completion (variation order)

### Utilities and handover

- Special tools such as mortar pump, j-bolt machine, etc.
- Basic electrical/plumbing coordination if included
- Cleaning
- Defect rectification
- Handover support
- Documentation/photo records
- Training components
  - Contractor must attend both theoretical and hands-on training

### GEOGRAPHIC COVERAGE

The project will operate across Dhaka, Gazipur, Chattogram, Bandarban, Nilphamari, Dinajpur and Sylhet. While Rangunia, Chattogram is the confirmed initial pilot site, applicants operating in other geographic regions of Bangladesh are also encouraged to apply.

### ELIGIBILITY CRITERIA

Eligible applicants may include:

- Local contractors
- Construction SMEs
- Civil works firms
- Experienced masonry/RCC contractors
- Sustainable construction enterprises
- Contractor teams with local implementation experience

#### Required minimum:

- Experience in civil construction/foundation/low-rise buildings
- Ability to mobilise labour in Rangunia, Chattogram
- Willingness to work under technical supervision
- Basic legal/ administrative documents, if available
- Site safety discipline

### EVALUATION CRITERIA

Proposal	Criteria	Score
<b>Technical Proposal</b>	Relevant construction experience	25
	Understanding of scope and methodology	20
	Team and manpower readiness	15
	Ability to work within timeline	10
	Local presence/logistics capacity	10
	<b>Sub-total</b>	<b>80</b>
<b>Financial Proposal</b>	Value for money	20
	<b>Total</b>	<b>100</b>

*Bidders who obtain at least 50% marks in the technical evaluation will be eligible for opening of Financial proposals.*

The following method will be applicable for the evaluation of the potential service provider:

- A Quality and Cost (Q&C)-based evaluation will be conducted by an evaluation team.

- The bidder achieving the highest score out of 100 will be awarded the contract, provided both parties reach an agreement on the final budget. If there is no agreement on the final budget, then the bidder with the second highest score will be considered.
- Swisscontact will conduct consultations and interviews as part of the shortlisting process.

## **EXPECTED OUTPUT**

Successful implementation of CBFT pilot housing units.

## **SUBMISSION GUIDELINES**

Interested applicants are requested to complete the proposal (**including all the annexes**) and submit any available supporting documents relevant to their experience, operational capacity, and area of interest by **July 15, 2026**. Applicants are encouraged to submit relevant administrative and legal documents. Additional information or documentation may be requested from shortlisted applicants at a later stage of the process.

Applicants may submit their RFP either online or offline:

- **Online:** Submit the form via email to [bd.procurement@swisscontact.org](mailto:bd.procurement@swisscontact.org). The subject line should read: "Request for Proposal for CBFT".
- **Offline:** Submit printed copies of the proposal and supporting documents to the Swisscontact Bangladesh Country Office at:  
**House 28, Road 43, Gulshan-2, Dhaka 1212, Bangladesh**

## **EVALUATION PROCESS**

Shortlisted applicants may be invited to participate in consultations, interviews, site visits, and technical orientation activities.

Based on these interactions, the procurement committee will assess the technical suitability, operational readiness, and implementation potential of participating entities for possible future engagement.

Only shortlisted applicants may be contacted for further discussion, clarification, or subsequent procurement processes. For any queries or additional information, please email to [bd.procurement@swisscontact.org](mailto:bd.procurement@swisscontact.org).

Swisscontact reserves the right to accept or reject any submission without assigning any reason and is not bound to engage any applicant through this RFP.

## ANNEX 1: APPLICATION FORM

Interested firms can fill up the form either in Bangla or English / আগ্রহী প্রতিষ্ঠানগুলো বাংলা অথবা ইংরেজিতে ফর্মটি পূরণ করতে পারবেন

1. Name of Organisation / Firm:

/ প্রতিষ্ঠানের নাম:

2. Year Established:

/ প্রতিষ্ঠার বছর:

3. Office Address:

/ অফিসের ঠিকানা:

4. Operational Areas (Districts):

/ কার্যক্ষেত্র (জেলাসমূহ):

5. Website / Facebook Page (if any):

/ ওয়েবসাইট / ফেসবুক পেজ (যদি থাকে):

6. Name of Focal Person:

/ ফোকাল পার্সনের নাম:

7. Designation of Focal Person:

/ ফোকাল পার্সনের পদবি:

8. Mobile Number of Focal Person:

/ ফোকাল পার্সনের মোবাইল নম্বর:

9. Email Address of Focal Person:

ফোকাল পার্সনের ইমেইল:

10. Please briefly describe your interest, relevant experience, and how your organisation could contribute to the initiative:

/ অনুগ্রহ করে সংক্ষেপে আপনার আগ্রহ, প্রাসঙ্গিক অভিজ্ঞতা এবং এই উদ্যোগে আপনার প্রতিষ্ঠান কীভাবে অবদান রাখতে পারে তা উল্লেখ করুন:

## ANNEX 2: IMPLEMENTATION SCHEDULE

Phase	Contractor Activity	Tentative Timeline
Mobilisation	Contractor onboarding and contract mobilisation	Mid July 2026
	Mobilisation, site preparation, temporary facilities, utilities, storage areas and site safety arrangements	Mid July 2026
	Procurement and delivery of construction resources, equipment and materials	Mid July 2026
Training & Orientation	Participation in mandatory CBFT theoretical and hands-on training (foundation works, QA/QC, construction methodology)	Mid July 2026
Foundation Works	Construction of foundations and plinth works – Duplex 1	Early–Mid August 2026
	Construction of foundations and plinth works – Duplex 2	Late August–Early September 2026
	Construction of foundations and plinth works – Duplex 3	Mid–Late September 2026
Superstructure Installation	Receive prefabricated panels, storage, installation support, alignment, bracing, mortar filling, roofing, cladding and finishing works – Duplex 1	Mid August–Late September 2026
	Receive prefabricated panels, storage, installation support, alignment, bracing, mortar filling, roofing, cladding and finishing works – Duplex 2	Early September–Mid October 2026
	Receive prefabricated panels, storage, installation support, alignment, bracing, mortar filling, roofing, cladding and finishing works – Duplex 3	Late September–End October 2026
Completion & Handover	Final punch-list, defect rectification and quality improvements	October–November 2026
	Support occupancy permit process (where applicable)	October–November 2026
	Project final handover	November 2026

*Note: This implementation schedule is tentative and provided solely to give prospective contractors an indication of the expected sequence of activities, the anticipated implementation period, and the urgency of the works. The schedule is subject to revision based on overall project implementation needs.*

### **ANNEX 3: SITE PHOTOS**



### **ANNEX 4: DEMO VIDEO**

Link: [CBFT DEMO ANIMATION](#)

### **ANNEX 5: GUIDELINE FOR THE FINANCIAL PROPOSAL**

Interested contractors are requested to submit a financial proposal in Bangladeshi Taka (BDT) covering all costs necessary for the successful completion of the assignment. The financial proposal should include, at a minimum, costs associated with mobilisation and demobilisation, site preparation, excavation and earthworks, foundation construction, concrete and reinforcement works, formwork, masonry works (where applicable), labour, tools and equipment, transportation and logistics, site supervision, safety measures and personal protective equipment (PPE), temporary site facilities, utility arrangements, quality control activities, installation support for prefabricated CBFT panels, finishing works, cleaning, defect rectification, and any other costs required to complete the scope of work.

Contractors are encouraged to clearly indicate the basis of their pricing and provide a breakdown of major cost components wherever possible. Any assumptions, exclusions, or conditions that may affect pricing should be explicitly stated in the proposal. The proposed budget should include all applicable taxes, duties, fees, overheads, and profit margins. Swisscontact will not be responsible for any costs that are not clearly reflected in the submitted financial proposal.

The financial proposal should also specify the proposed payment schedule, anticipated mobilisation timeline, and estimated duration required to complete the assigned works. Contractors may submit alternative cost-saving approaches or implementation suggestions where these do not compromise safety, quality, structural integrity, or compliance with the approved design and technical specifications.

As the CBFT technology is being introduced in Bangladesh through this pilot, contractors are encouraged to familiarise themselves with the drawings, technical documentation, site information, photographs, and videos provided as annexes to this RfP. Any uncertainty regarding quantities, construction methodology, site conditions, or scope of work should be clarified through written communication before submission of the proposal. Contractors shall be deemed to have reviewed the available information and assessed the implementation requirements prior to submitting their financial proposal.

Contractors are encouraged to separately identify costs associated with labour, materials, equipment, and site overheads where feasible.

# ANNEX 6: DUPLEX PLAN SUBJECT FOR REVISION



**1 PERSPECTIVE**  
A-00 SCALE NTS



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EZRA MICAH J. DAYAO ARCHITECT	
PRC NO. : 0061224	VALIDITY : 02/25/2027
P.T.R. NO. : 10474677	DATE : 01/10/2025
PLACE : QUEZON CITY	TIN : 610-010-326

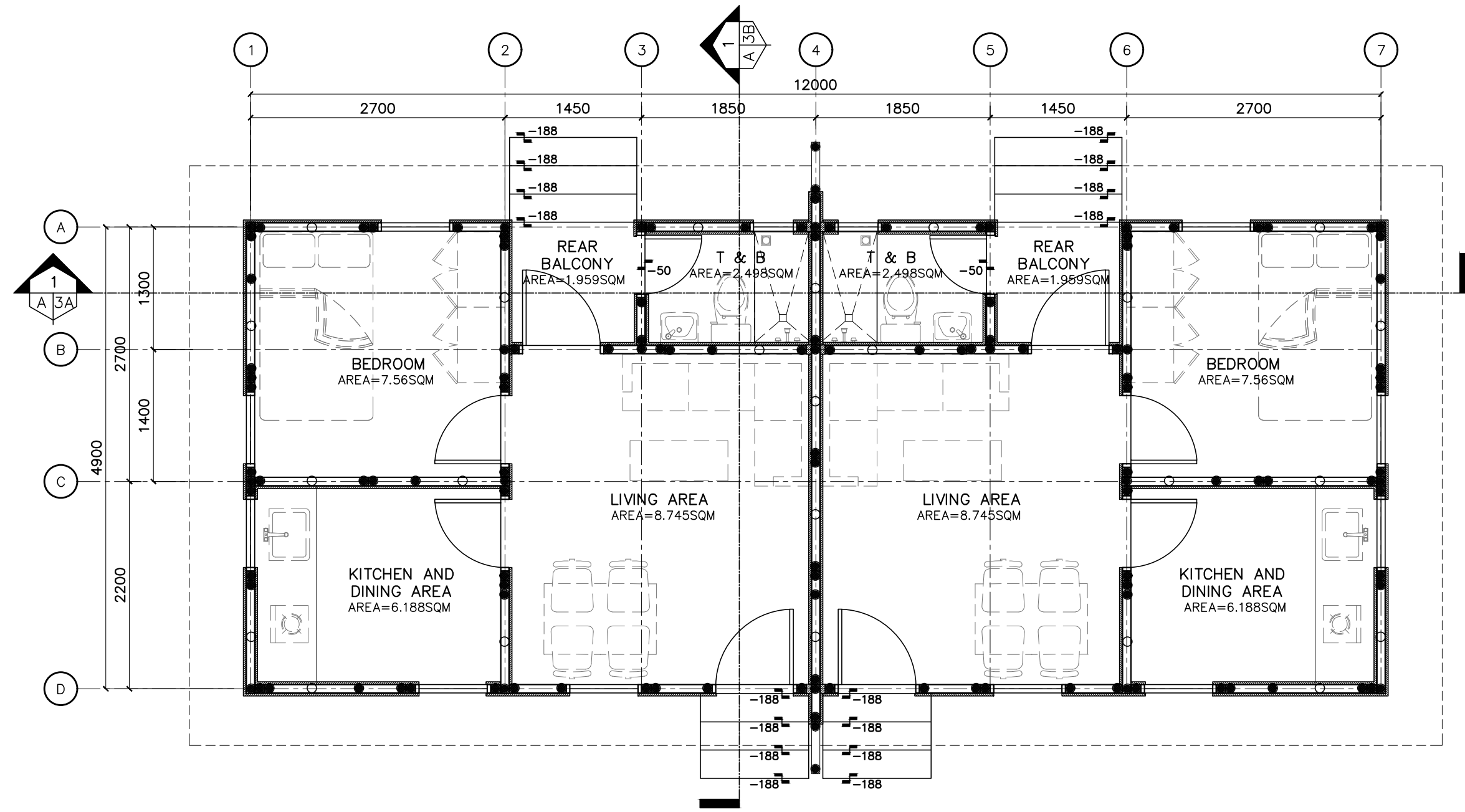
CLIENT/OWNER:

PROJECT TITLE:
PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:
BANGLADESH

SHEET CONTENTS:

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			E.M.D.
			CHECKED BY:
			L.F.L

DATE : 08-JUNE-2026
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1
**FLOOR PLAN**  
 A-01A SCALE 1:50M



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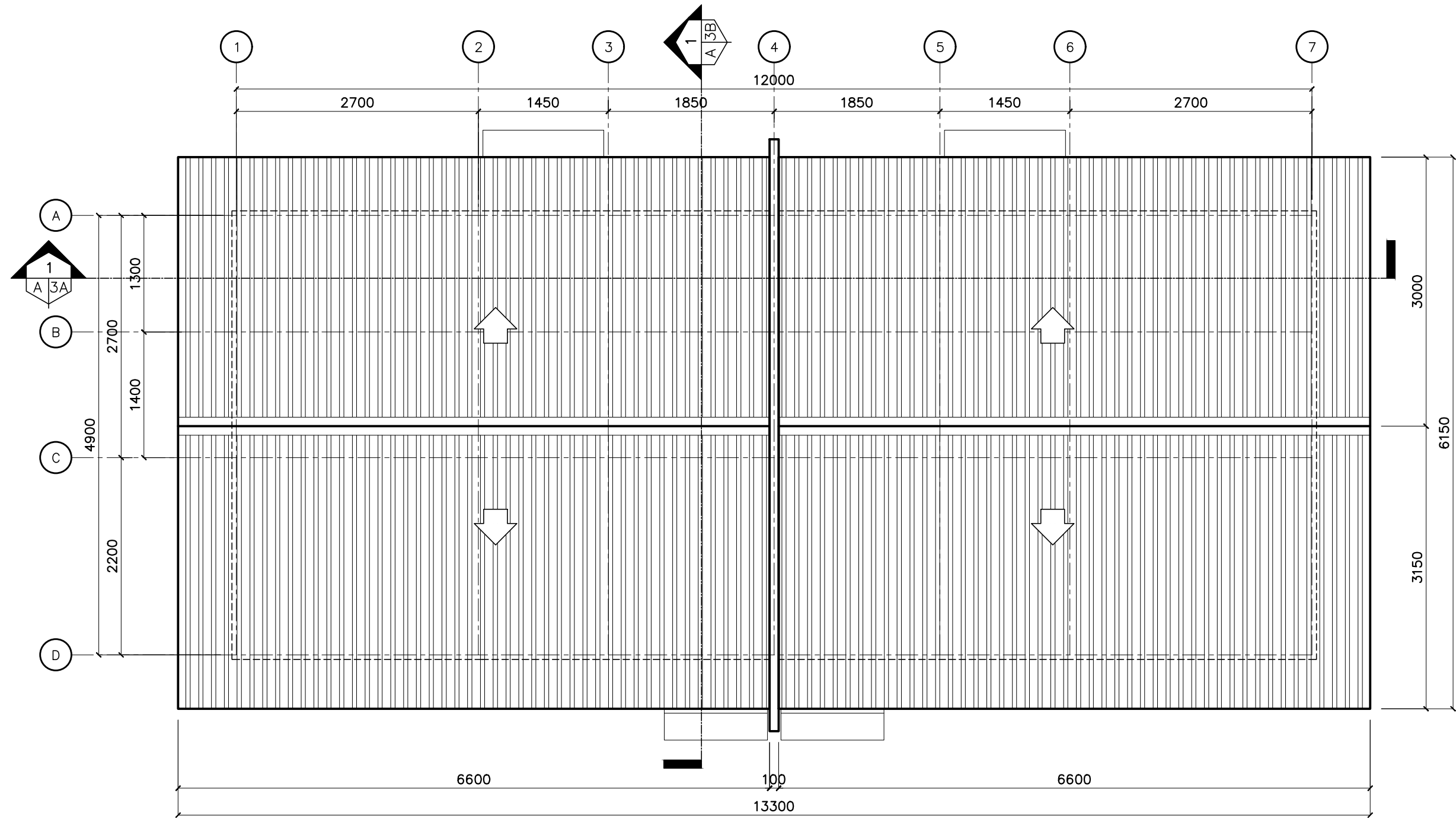
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**1 ROOF PLAN**  
A-01B SCALE 1:50M



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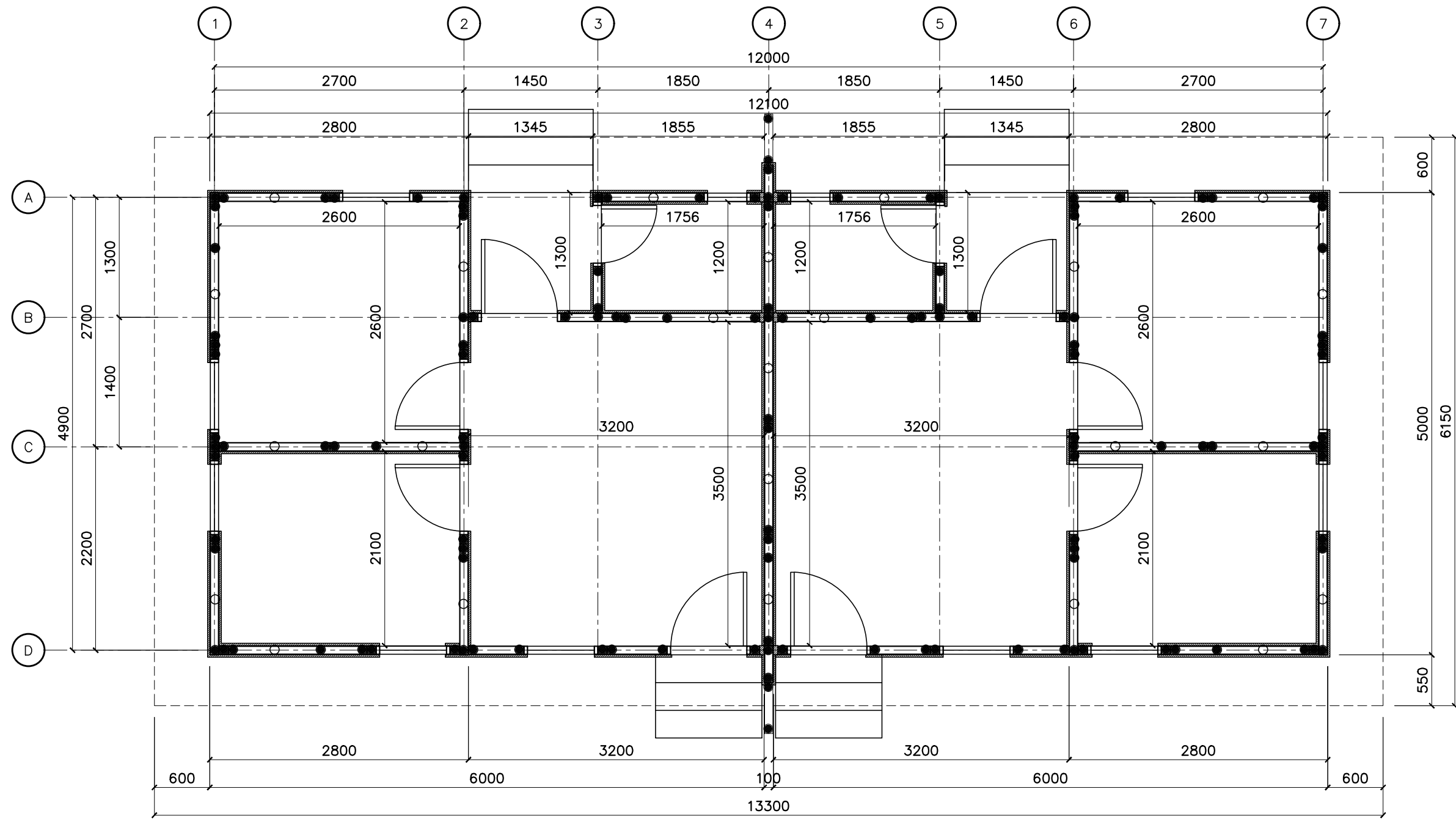
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1 DIMENSIONS PLAN  
A-01C SCALE 1:50M



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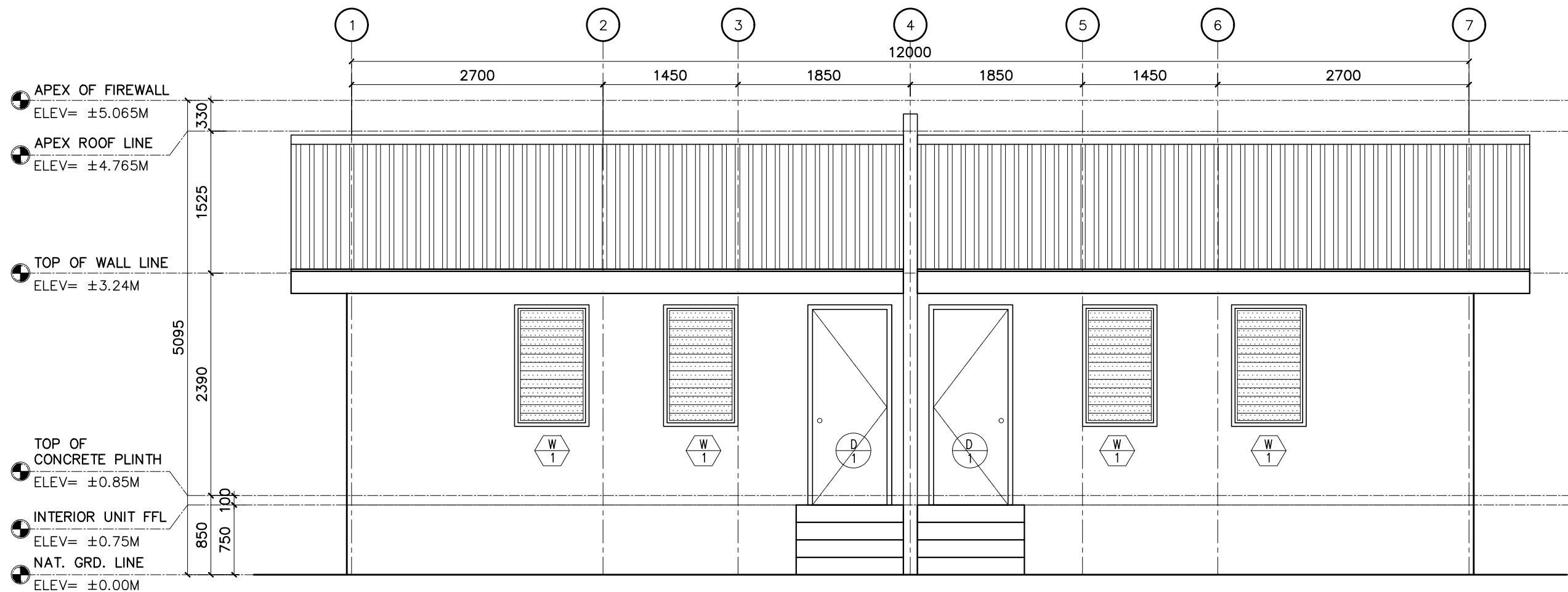
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1
**FRONT ELEVATION**  
 A-02A SCALE 1:50M



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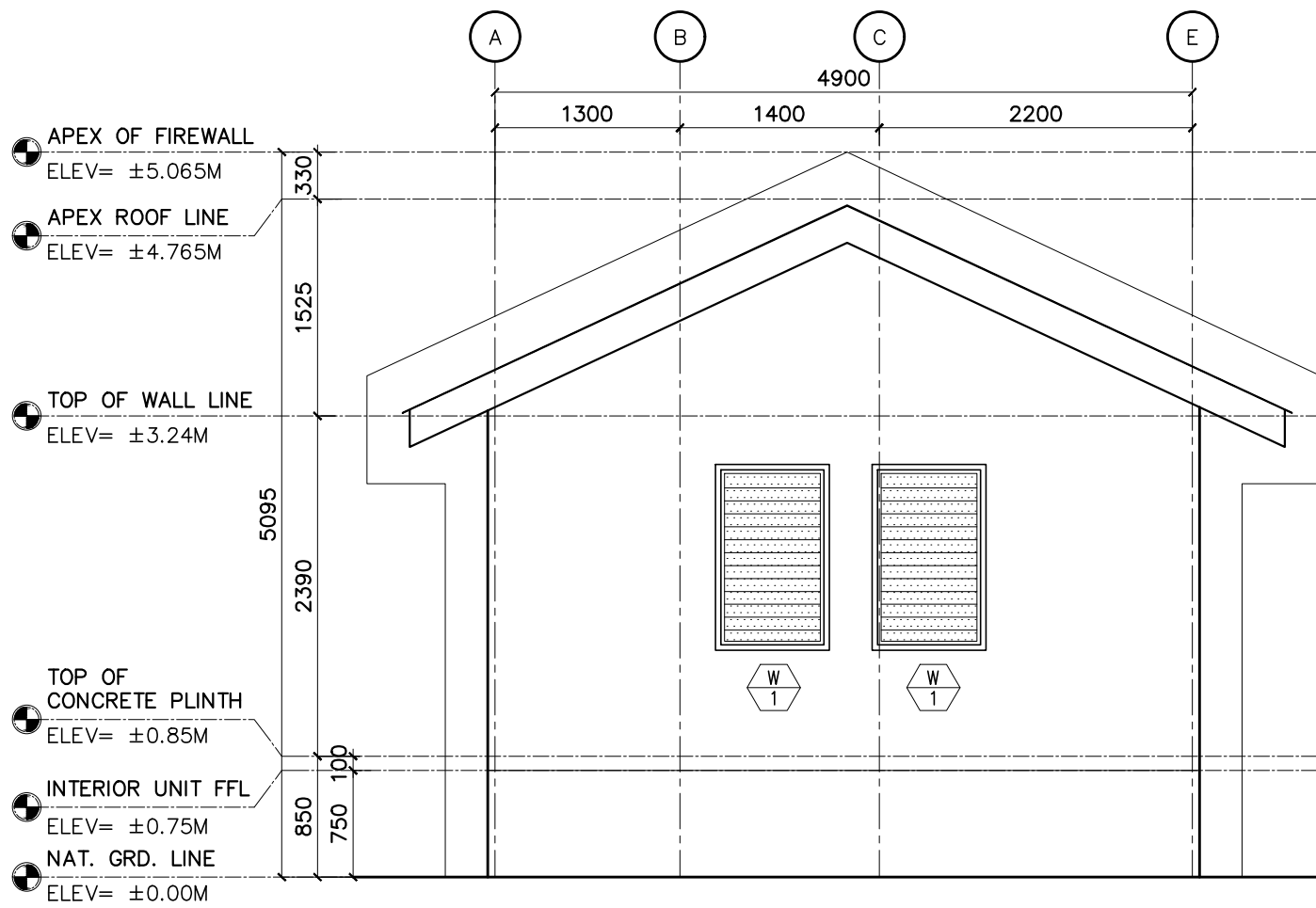
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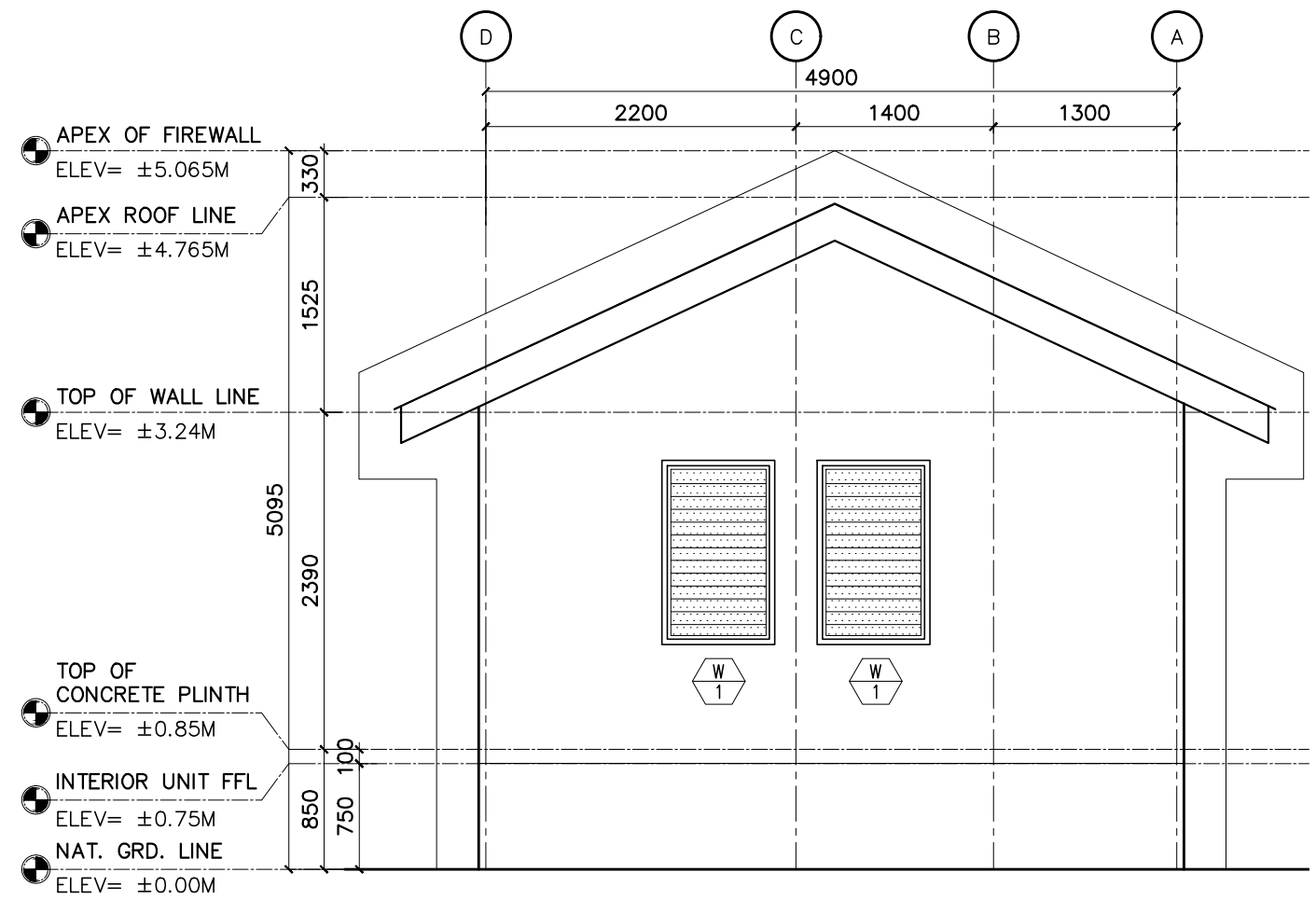
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<b>A 02A</b>



**1 LEFT SIDE ELEVATION**  
A-02B SCALE 1:50M



**2 RIGHT SIDE ELEVATION**  
A-02B SCALE 1:50M



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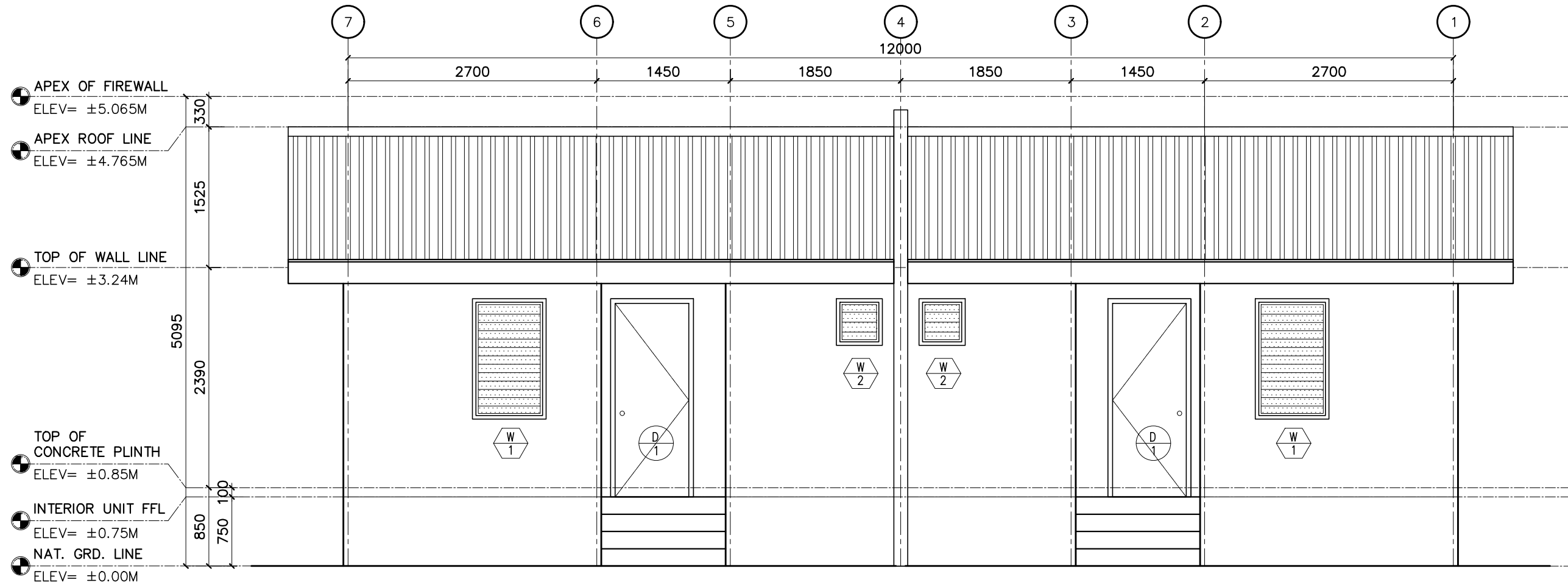
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**REAR ELEVATION**  
 A-02C SCALE 1:50M



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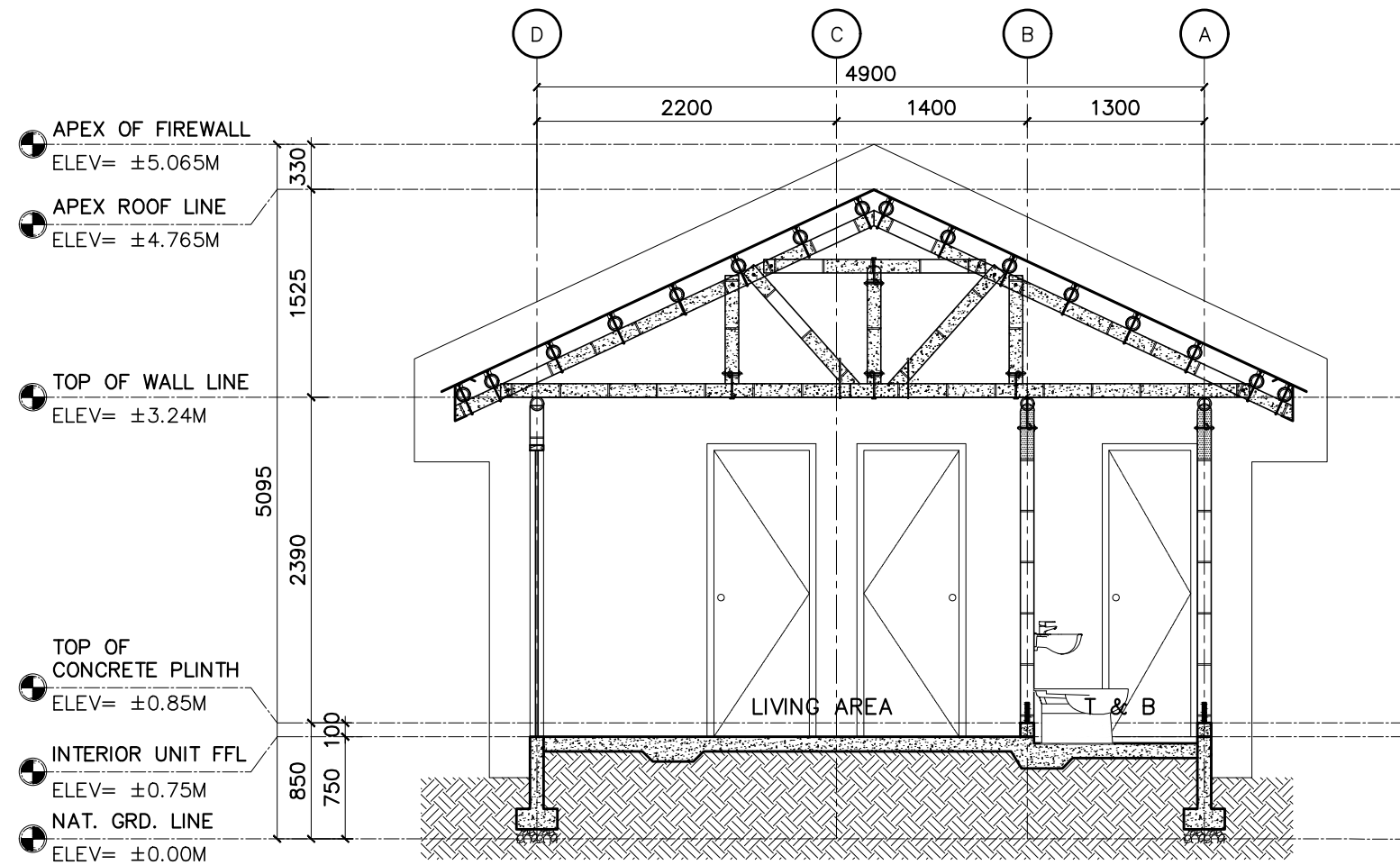
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**1 TRANSVERSE SECTION**  
A-03B SCALE 1:50M



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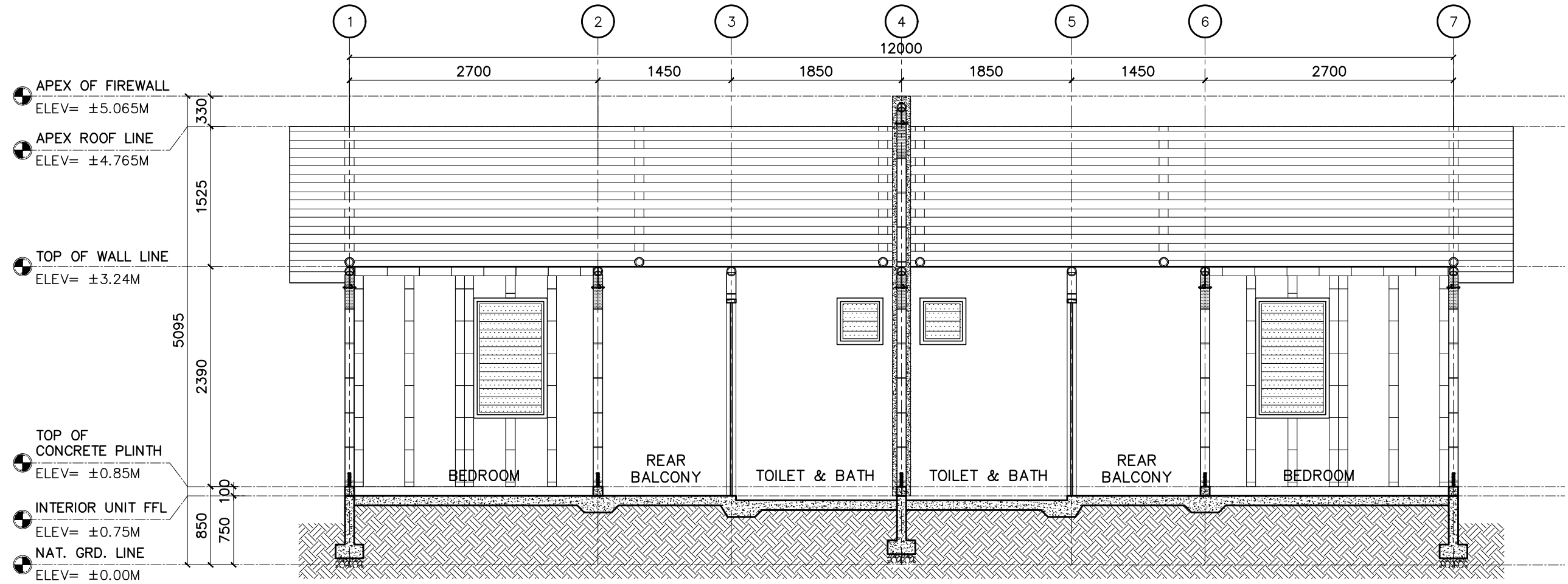
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<b>A 03B</b>



**1 LONGITUDINAL SECTION**  
 A-03A SCALE 1:50M



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ARCHITECT:	
EZRA MICAH J. DAYAO ARCHITECT	
PRC NO. : 0061224	VALIDITY : 02/25/2027
P.T.R. NO. : 10474677	DATE : 01/10/2025
PLACE : QUEZON CITY	TIN : 610-010-326

CLIENT/OWNER:

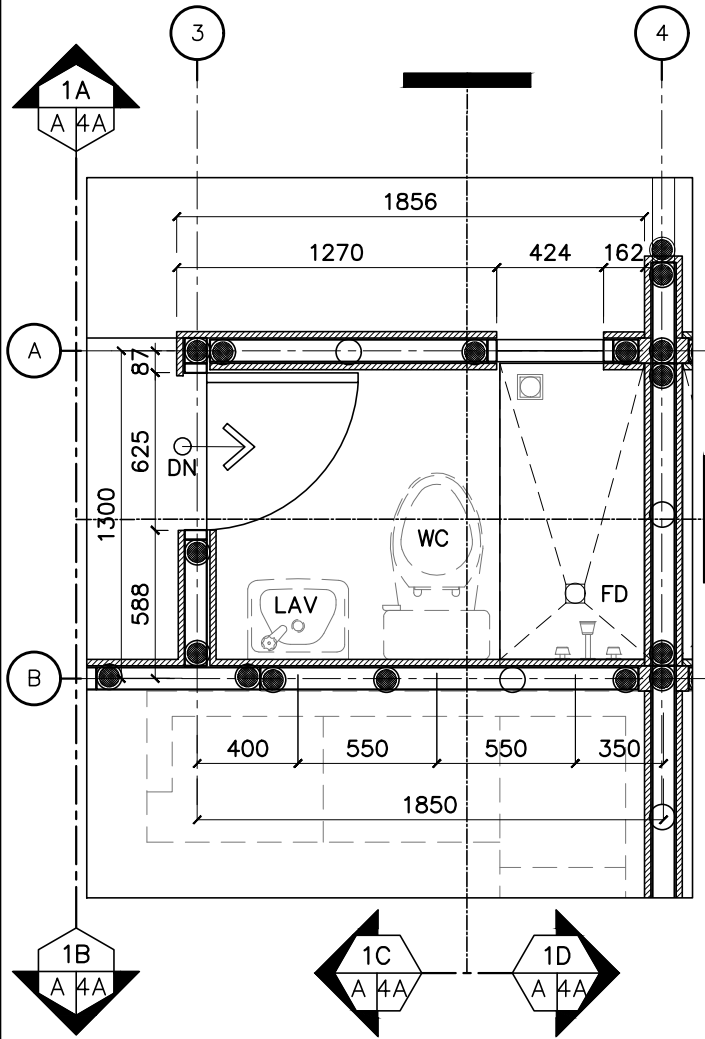
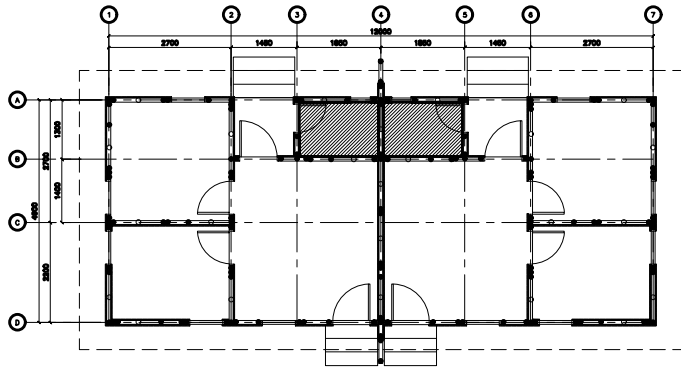
PROJECT TITLE:
PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:
BANGLADESH

SHEET CONTENTS:

NO.	REVISIONS:	DATE:	DESIGNED BY:
-	-	-	-
			DRAFTED BY:
			E.M.D.
			CHECKED BY:
			L.F.L

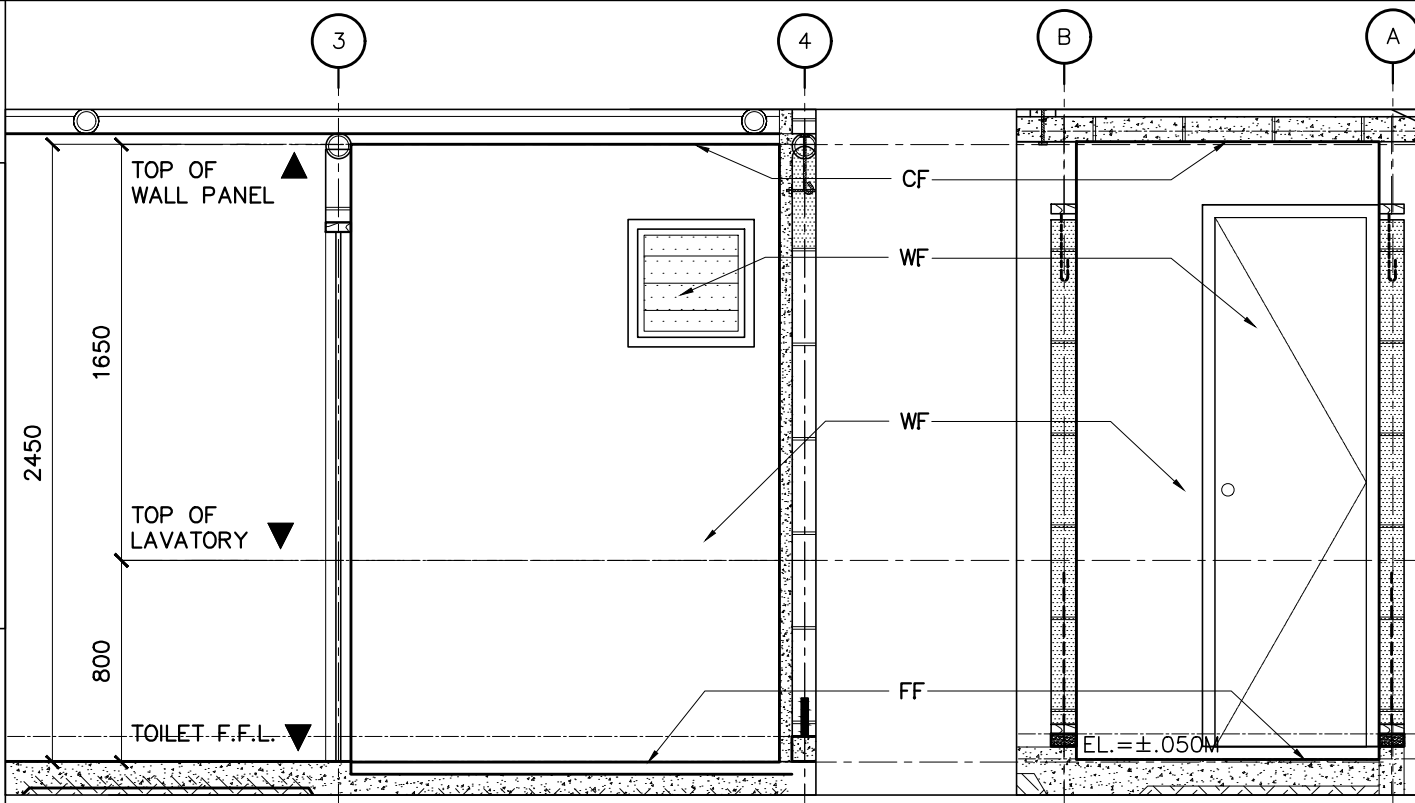
DATE : 08-JUNE-2026
PROCESS :
SHEET NO.:
<b>A 03A</b>

# KEY PLAN



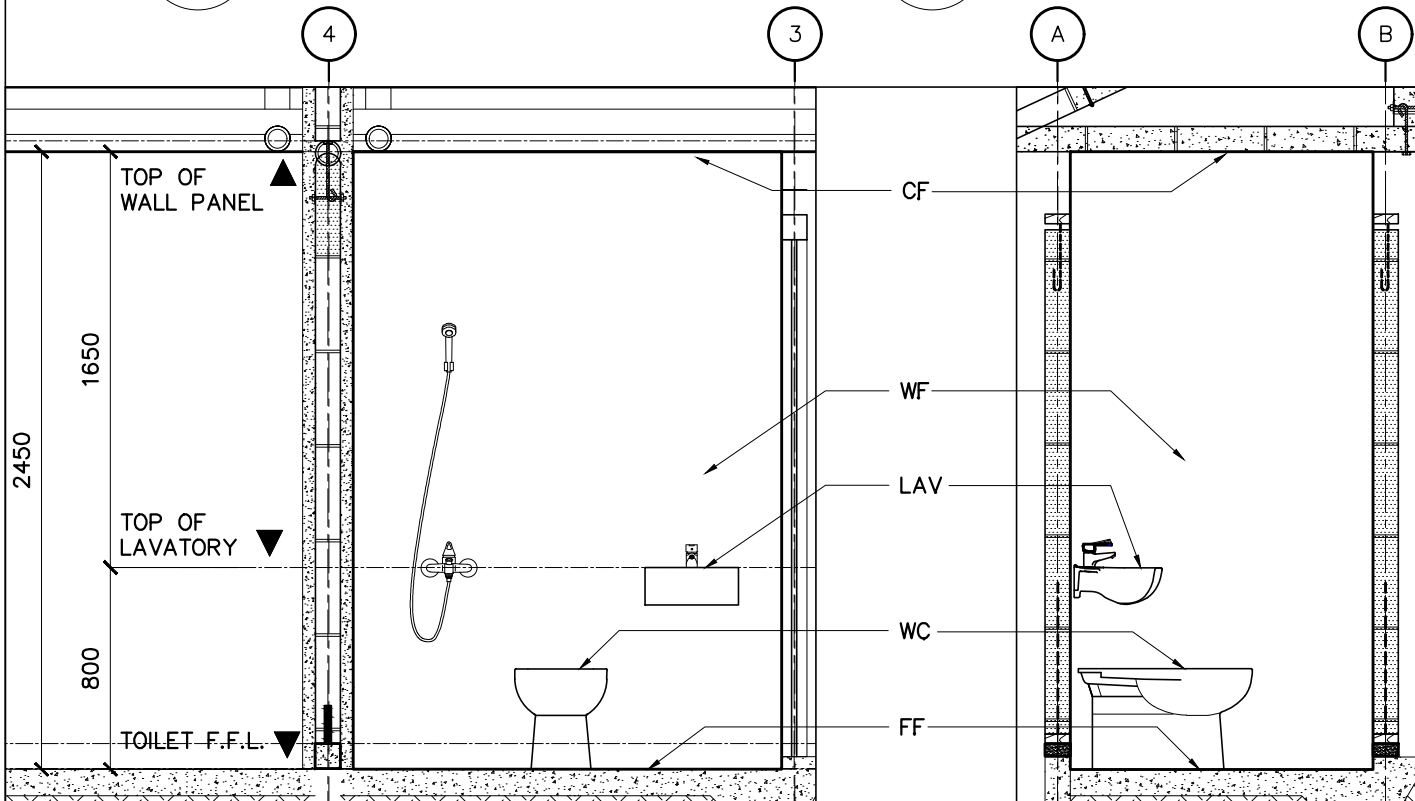
**1 BLOW-UP PLAN**

A-04A SCALE 1:50M



**2 SECTION THRU 1-C**

A-04A SCALE 1:50M



**4 SECTION THRU 1-A**

A-04A SCALE 1:50M

**3 SECTION THRU 1-D**

A-04A SCALE 1:50M

**5 SECTION THRU 1-B**

A-04A SCALE 1:50M

# SCHEDULE OF FINISHES

**CEILING FINISH**  
 CF-1 INTERIOR EXPOSED CEILINGS: EXPOSED BAMBOO CEILING SHALL BE EXPOSED PRE-PAINTED ROOFING SHEET ON 100-120MM DIAMETER BAMBOO PURLINS WITH 1"x2" TREATED TIMBER.

**FLOOR FINISH**  
 FF PLAIN CEMENT FLOOR FINISH SHALL BE PLAIN CEMENT FLOOR FINISH

**WALL FINISHES**  
 WF-2b INTERIOR WALL PLASTER FINISH SHALL BE 25MM THICK SMOOTH TROWEL CEMENT PLASTER FINISH

**DOOR**  
 D-2 SWING TYPE, SINGLE LEAF FLUSH DOOR SHALL BE 6MM THICK MARINE PLYWOOD ON BOTH SIDES WITH 2X2 KILN DRIED WOOD FRAMES

**WINDOW**  
 W-2 ALUMINUM FRAMED JALOUSIE WINDOWS SHALL BE 6MM THICK, 5-BLADE JALOUSIE WINDOW WITH ALUMINUM FRAME

**TOILET FIXTURES**  
 WC WATER CLOSET SHALL BE FLOOR MOUNTED, ROUND SHAPED, PAIL FLUSH (3 LPF WATER CONSUMPTION) TYPE WATER CLOSET.

LAV WALL MOUNTED LAVATORY SHALL BE GRADE A REAR FLOW WALL MOUNTED LAVATORY.

**OTHER ACCESSORIES**  
 FD FLOOR DRAIN SHALL BE 102MM X 102MM X 57MM, GRADE 304, POLISHED STAINLESS STEEL FLOOR DRAIN WITH LIFT-UP COVER AND STRAINER

BF BATHROOM FAUCET (NO SHOWER PROVIDED) SHALL BE 3/8 INCH STANDARD HOSE CONNECTION, MALE TAPERED THREADS, GLOSSY FINISH AND MADE OF ABS PLASTIC/PVC MATERIAL OR EQUIVALENT.

LF LAVATORY FAUCET SHALL BE 3/8 INCH STANDARD HOSE CONNECTION, MALE TAPERED THREADS, GLOSSY FINISH AND MADE OF ABS PLASTIC/PVC MATERIAL OR EQUIVALENT.

## LEGEND DESCRIPTION MOUNTING HEIGHTS

LEGEND DESCRIPTION	MOUNTING HEIGHTS
LAV LAVATORY	800 mm
UR URINAL	600 mm
BF BATHROOM FAUCET	700 mm
FD FLOOR DRAIN	ON FLOOR
WC WATER CLOSET	ON FLOOR

NOTE: REFER TO MANUFACTURER'S DATA SHEET FOR COMPLETE DESCRIPTION AND TECHNICAL INFORMATION.

-NO SHOWER IS PROVIDED, PAIL AND DIPPER WILL BE USED FOR TAKING A BATH.

-MOUNTING STARTS FROM TOILET FINISH FLOOR LINE. FLOOR DRAIN MAY VARY DEPENDING ON SANITARY ENGINEERING LAYOUT.



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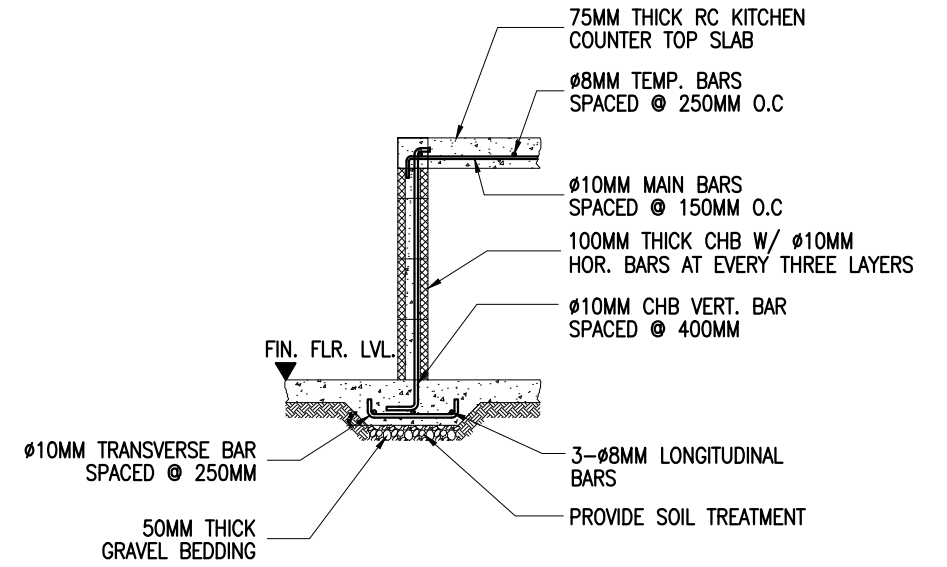
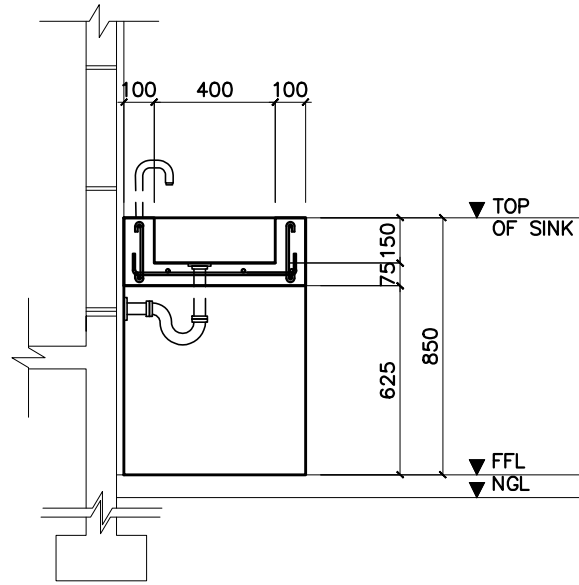
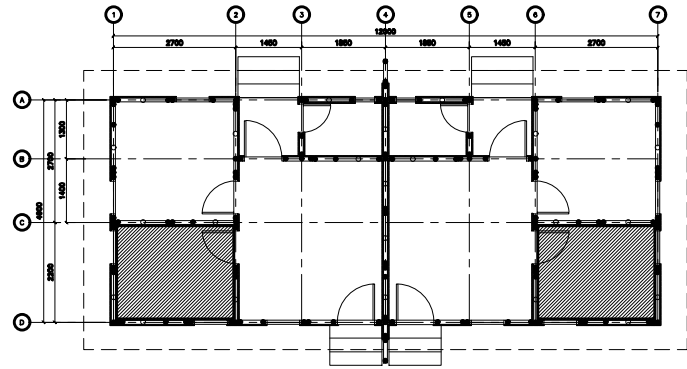
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LOCATION:	
BANGLADESH	

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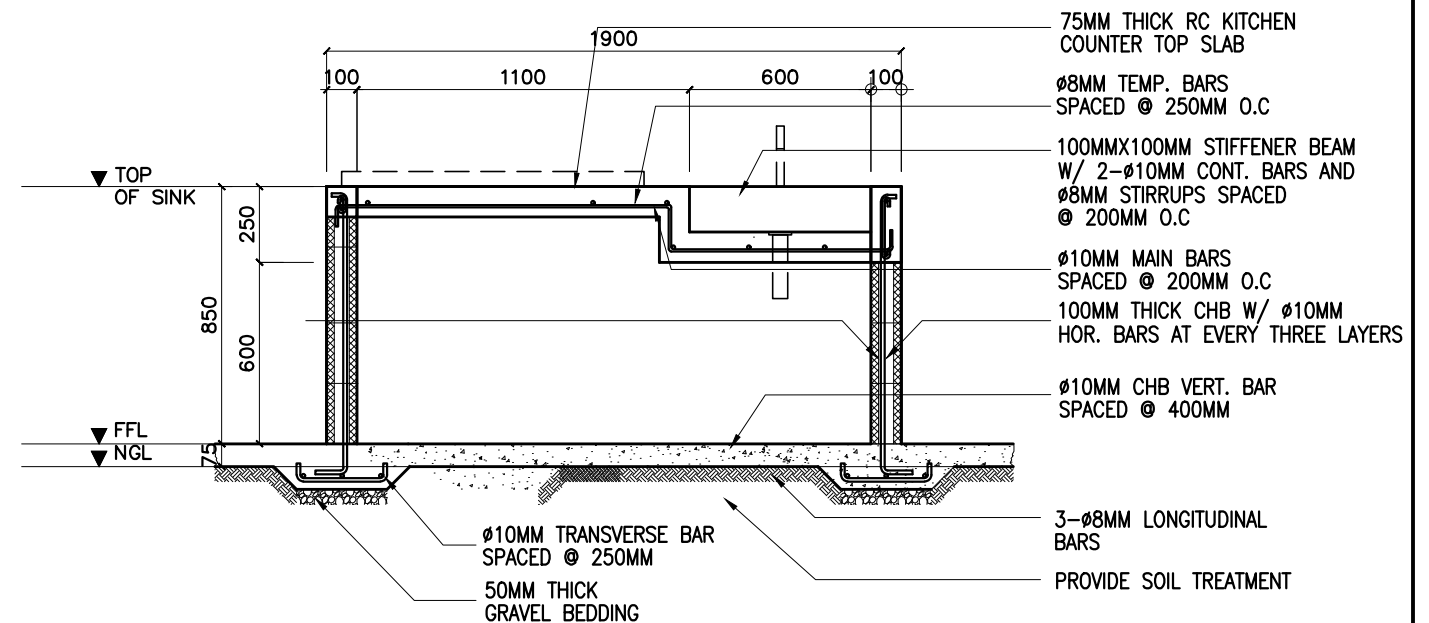
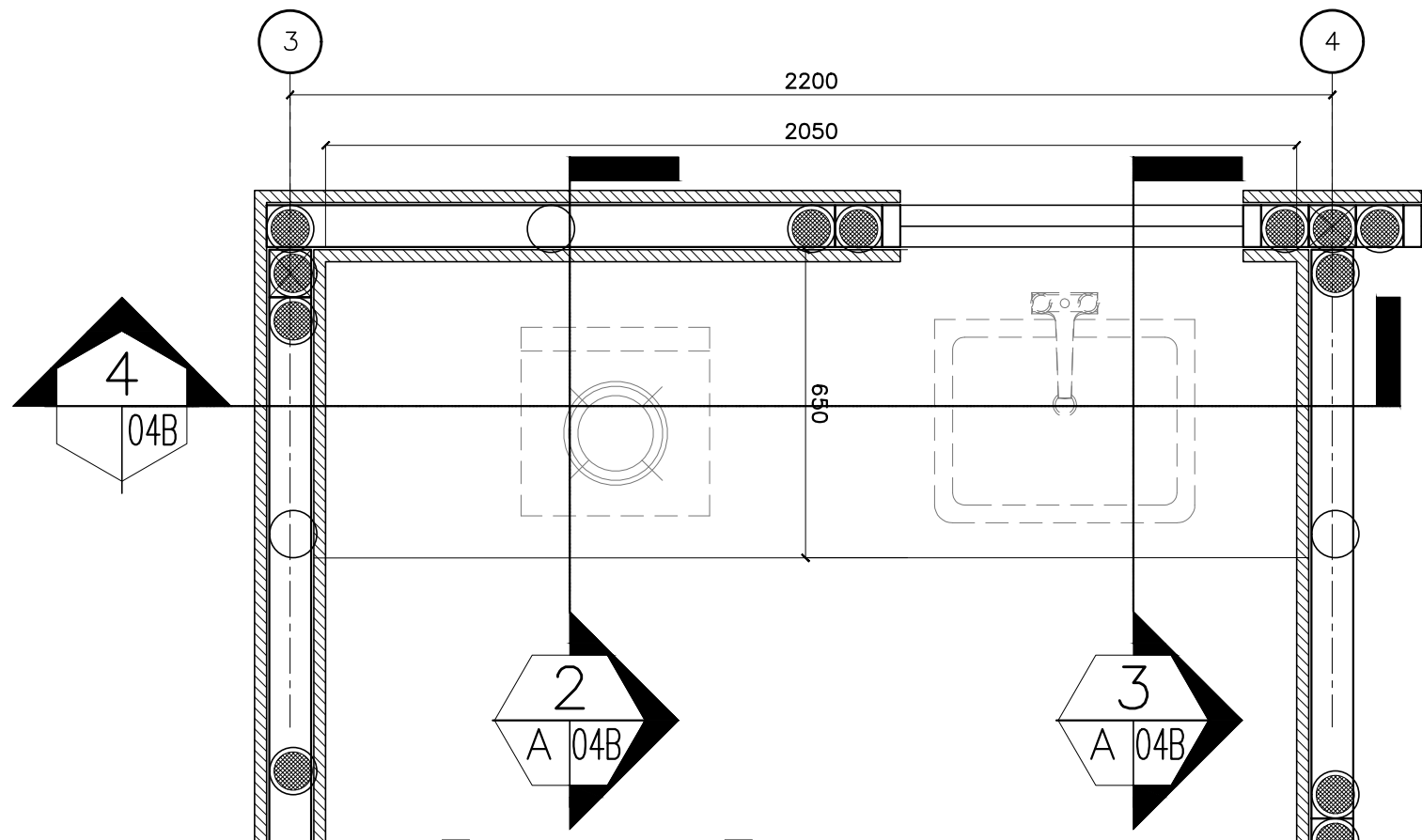
**S 04A**

# KEY PLAN



**2 KITCHEN COUNTER SECTION 1**  
A-04B SCALE 1:25MM

**3 KITCHEN COUNTER SECTION 2**  
A-04B SCALE 1:25MM



**1 KITCHEN COUNTER BLOW-UP PLAN**  
A-04B SCALE 1:25MM

**4 KITCHEN COUNTER FRONT ELEVATION**  
A-04B SCALE 1:25MM



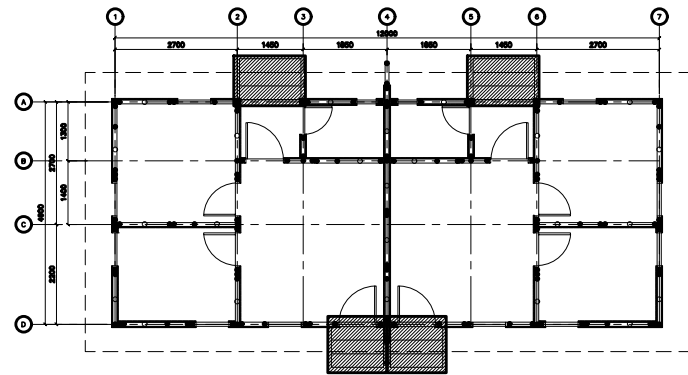
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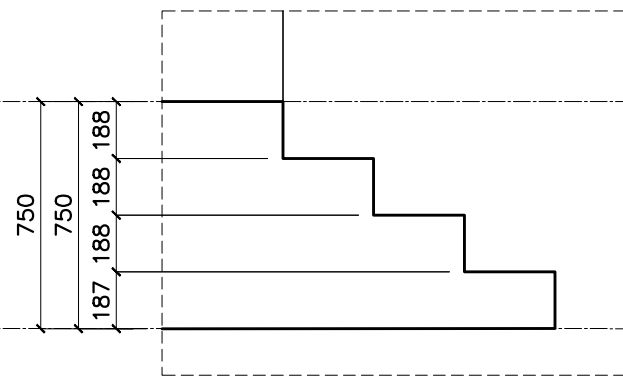
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E.M.D.  
CHECKED BY: **A 04B**  
L.F.L.

# KEY PLAN



INTERIOR UNIT FFL  
ELEV= ±0.75M

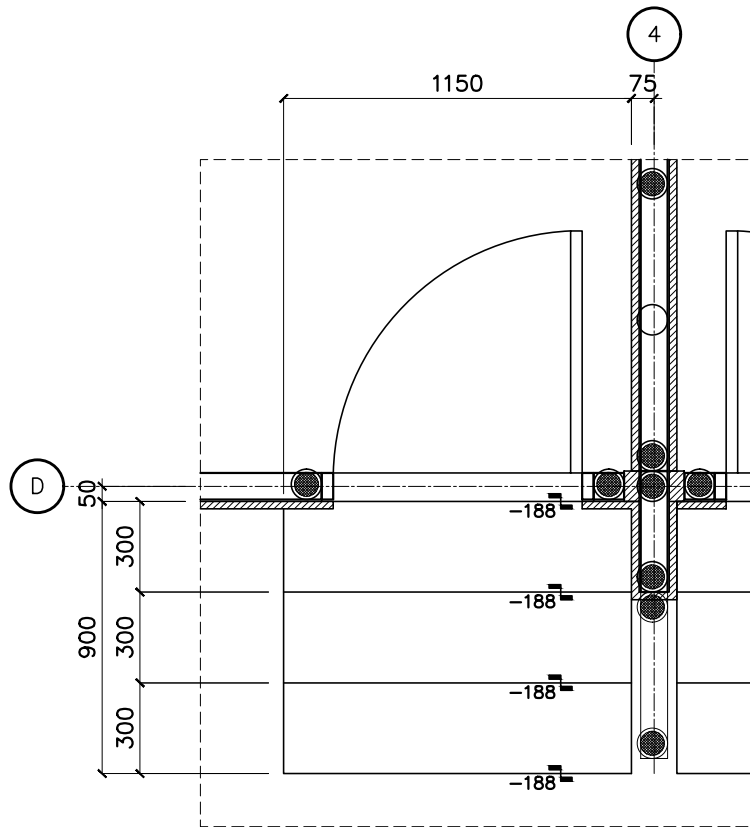
NAT. GRD. LINE  
ELEV= ±0.00M



## 5 FRONT ENTRANCE STEP SECTION

A-05 SCALE

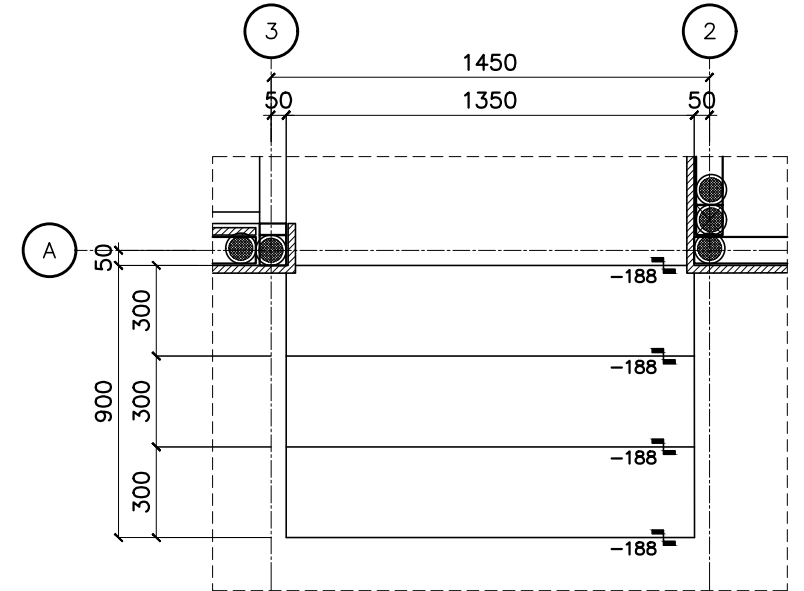
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## 1 FRONT ENTRANCE STEP PLAN

A-05 SCALE

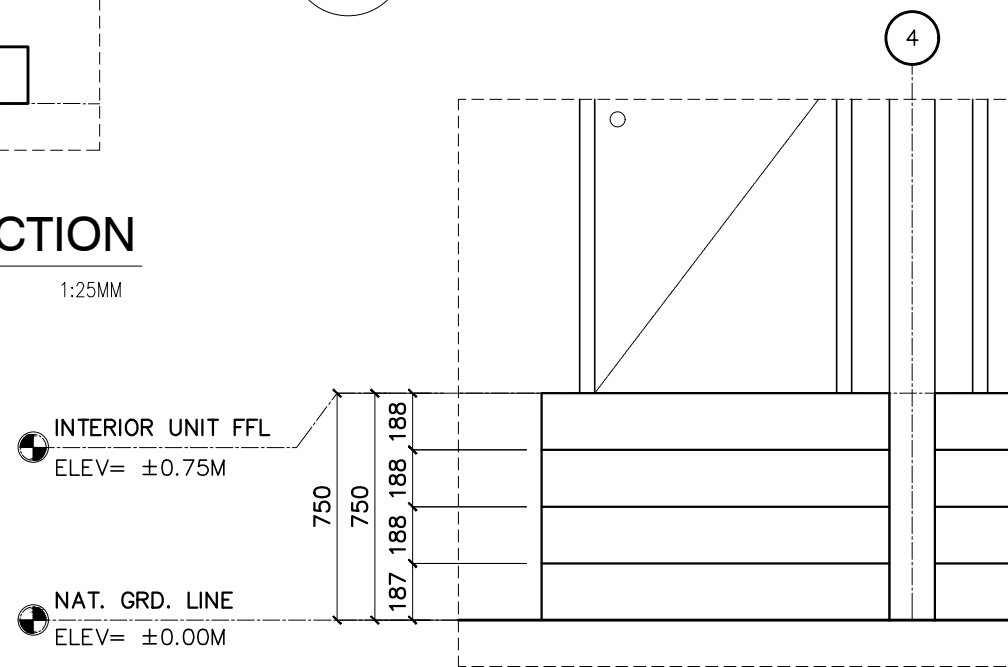
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## 2 FRONT ENTRANCE STEP PLAN

A-05 SCALE

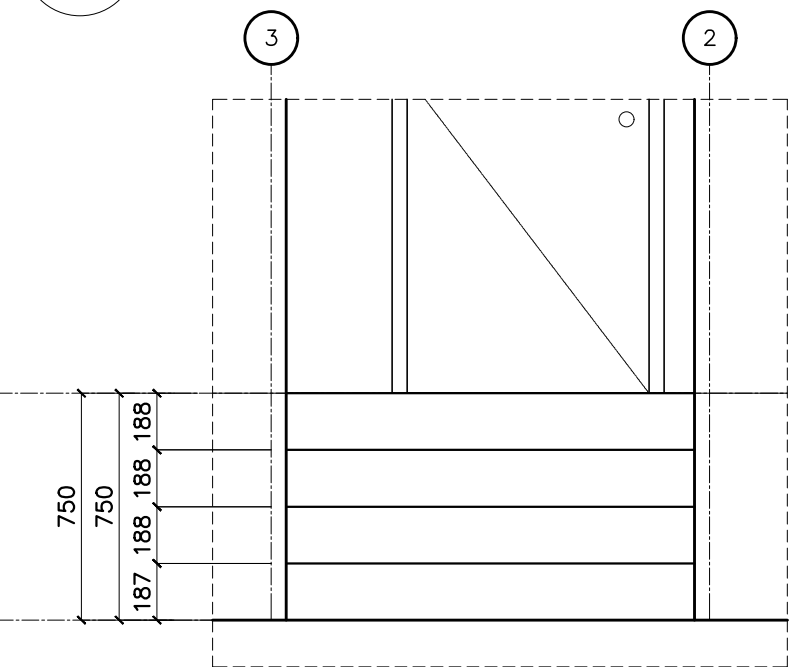
1:25MM



## 3 FRONT ENTRANCE STEP ELEV.

A-05 SCALE

1:25MM



## 4 FRONT ENTRANCE STEP ELEV.

A-05 SCALE

1:25MM



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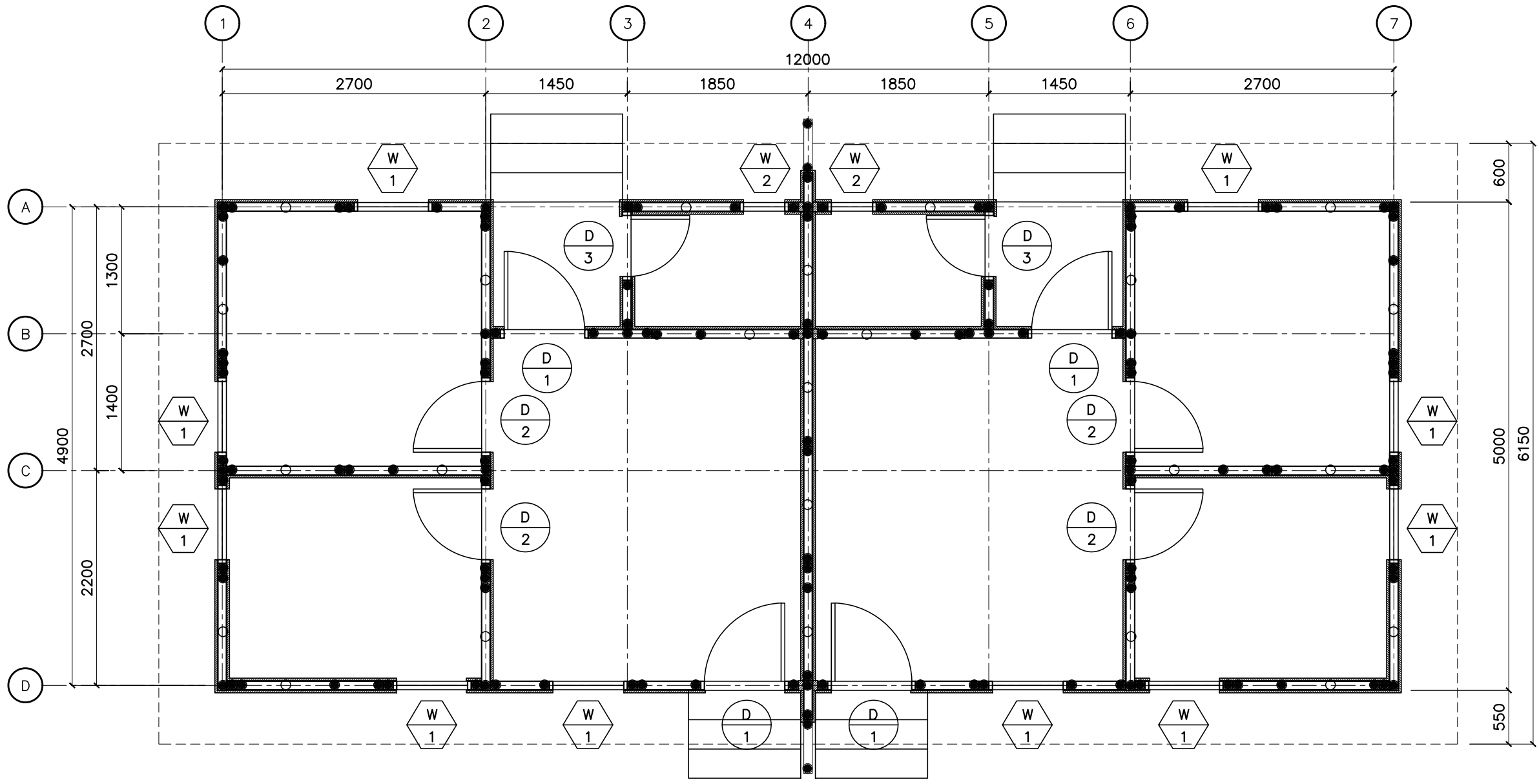
PROJECT TITLE:
PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:
BANGLADESH

SHEET CONTENTS:

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DESIGNED BY:
DRAFTED BY:
E.M.D.
CHECKED BY:
L.F.L

DATE : 08-JUNE-2026
PROCESS :
SHEET NO.:
<b>A 04B</b>



**1 DOORS AND WINDOWS CALLOUT PLAN**  
 A-06A SCALE 1:50M



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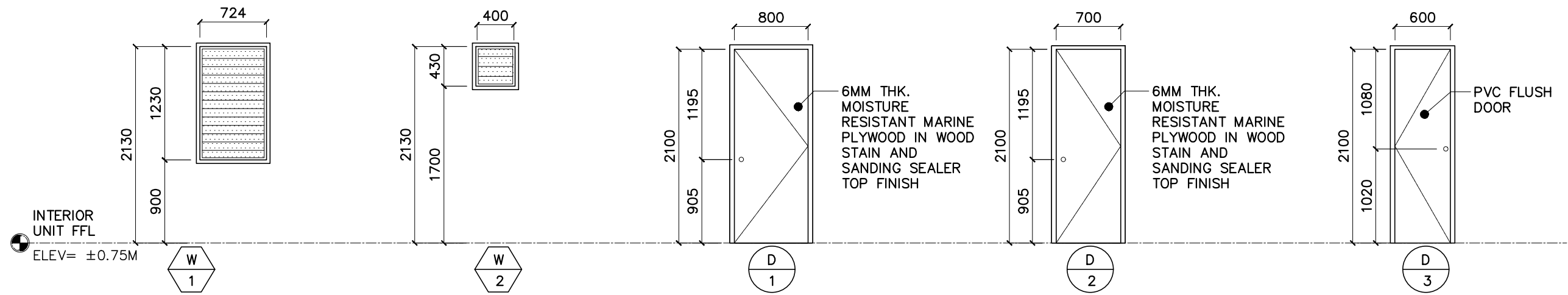
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 E.M.D.  
 CHECKED BY:  
 L.F.L.

DATE : 08-JUNE-2026
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<b>A 06A</b>



LOCATION	KITCHEN, LIVING & DINING AREA, BEDROOM
QUANTITY	TEN (10) SET/S
TYPE 1&2 MATERIAL	JALOUSIE WINDOW WITH GLASS
DESCRIPTION	VERIFY SUPPLIER FOR THE STANDARD DIMENSIONS OF BLADES
JAMB	WOOD
FINISH	
HARDWARE	
ACCESSORIES	
REMARKS	

LOCATION	TOILET & BATH
QUANTITY	TWO (2) SET/S
TYPE 1&2 MATERIAL	JALOUSIE WINDOW WITH GLASS
DESCRIPTION	VERIFY SUPPLIER FOR THE STANDARD DIMENSIONS OF BLADES
JAMB	WOOD
FINISH	
HARDWARE	
ACCESSORIES	
REMARKS	

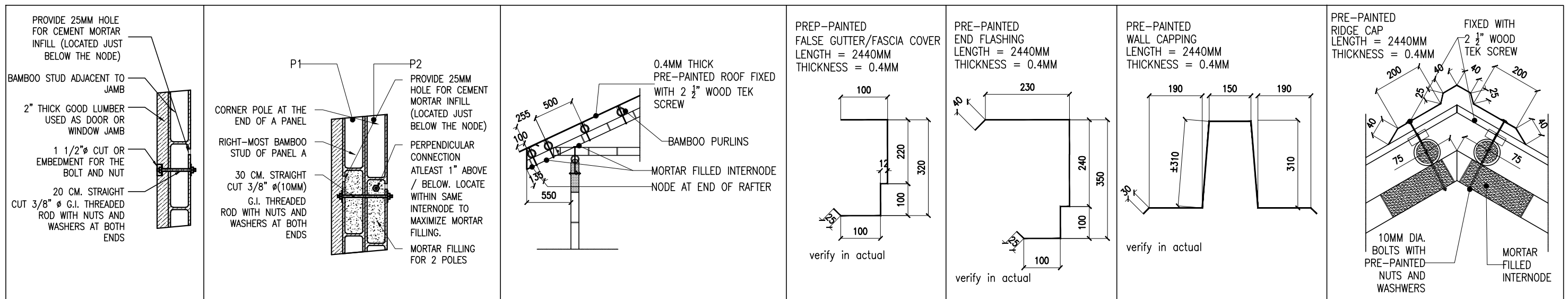
LOCATION	ENTRANCE, REAR BALCONY
QUANTITY	FOUR (4) SET/S
TYPE 1&2 MATERIAL	SWING TYPE, SINGLE LEAF HOLLOW CORE WOOD DOOR
DESCRIPTION	FR. 50X150MM TREATED KD HARDWOOD STILES AND FR. 50x150 TREATED KD HARDWOOD BOTTOM RAIL WITH 6MM THK. MARINE PLYWOOD PANEL IN BARE FINISH
JAMB	FR. 50MMx100MM KD TREATED HARDWOOD
FINISH	VERIFY OWNER
HARDWARE	OWNER APPROVED KNOBS
ACCESSORIES	OWNER APPROVED HINGES
REMARKS	VERIFY SPECIFICATIONS

LOCATION	KITCHEN, BEDROOMS
QUANTITY	FOUR (4) SET/S
TYPE 1&2 MATERIAL	SWING TYPE, SINGLE LEAF HOLLOW CORE WOOD DOOR
DESCRIPTION	FR. 50X150MM TREATED KD HARDWOOD STILES AND FR. 50x150 TREATED KD HARDWOOD BOTTOM RAIL WITH 6MM THK. MARINE PLYWOOD PANEL IN BARE FINISH
JAMB	FR. 50MMx100MM KD TREATED HARDWOOD
FINISH	VERIFY OWNER
HARDWARE	OWNER APPROVED KNOBS
ACCESSORIES	OWNER APPROVED HINGES
REMARKS	VERIFY SPECIFICATIONS

LOCATION	TOILET & BATH
QUANTITY	TWO (2) SET/S
TYPE 1&2 MATERIAL	SWING TYPE, SINGLE LEAF PVC DOOR
DESCRIPTION	POLYVINYL CHLORIDE (PVC) FLUSH DOOR
JAMB	PVC JAMB (VERIFY SUPPLIER)
FINISH	VERIFY OWNER
HARDWARE	OWNER APPROVED KNOBS
ACCESSORIES	OWNER APPROVED HINGES
REMARKS	VERIFY SPECIFICATIONS

# 1 DOORS AND WINDOWS CALLOUT PLAN

A-06A SCALE 1:50M



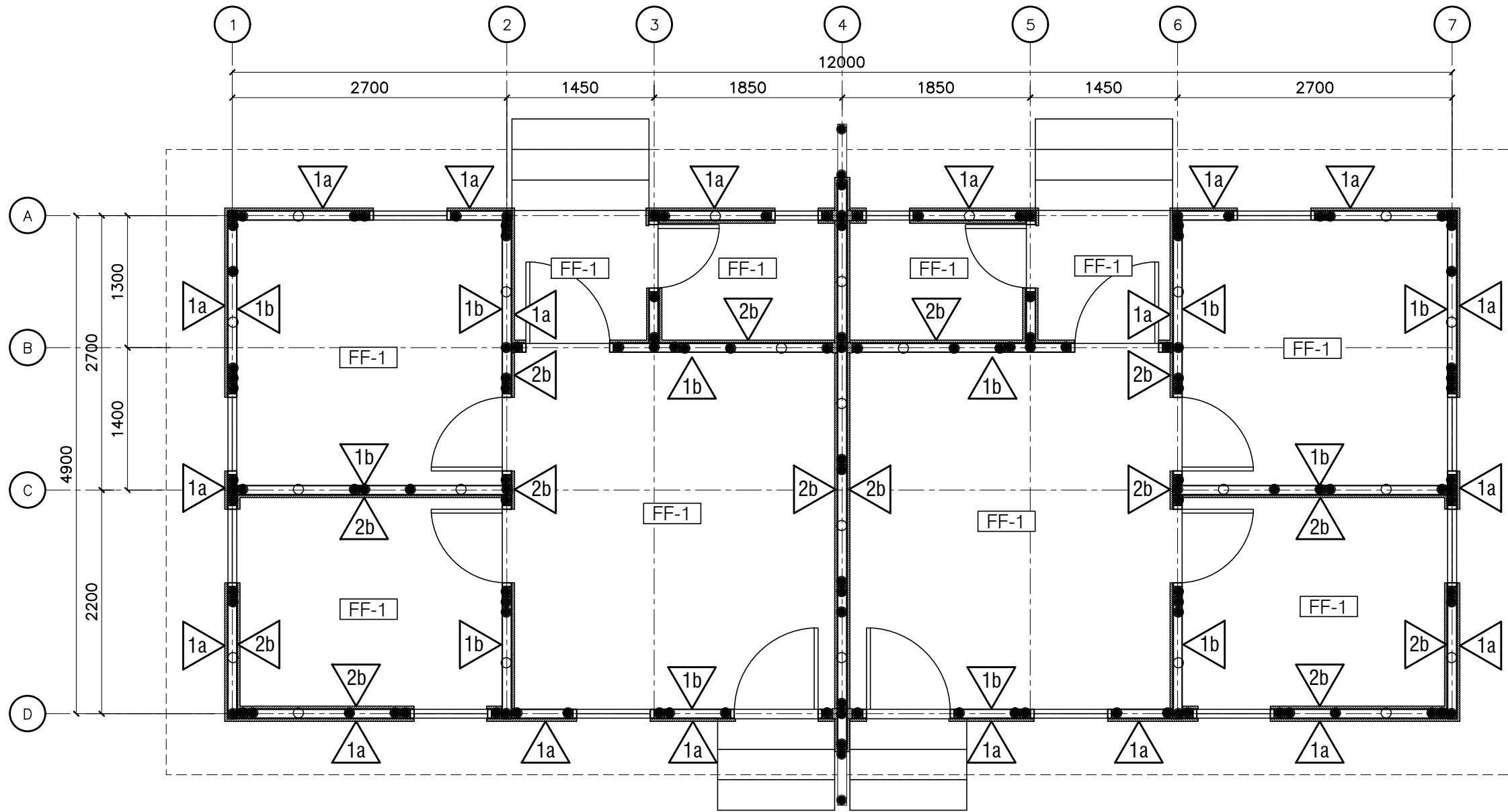
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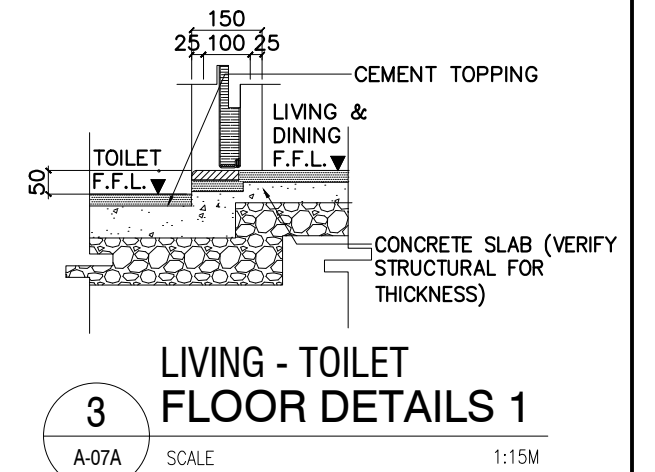
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				<b>A 06B</b>

DRAFTED BY:	E.M.D.
CHECKED BY:	L.F.L.



**1 FLOOR LAYOUT AND WALL FINISH PLAN**  
A-07A SCALE 1:50M

SCHEDULE OF FINISHES	
<b>FLOOR FINISHES</b>	
FF-1	PLAIN CEMENT FLOOR FINISH
<b>WALL FINISHES</b>	
<b>EXTERIOR WALL</b>	
1a	25MM THICK SMOOTH TROWEL CEMENT PLASTER FINISH COATED; PAINTED WITH WITH ACRYLIC SEMI GLOSS LATEX PAINT (LIGHTER BEIGE-NGL TO FINISH FLOOR LINE, WHITE-FINISH FLOOR LINE TO CEILING LEVEL).
<b>INTERIOR WALL</b>	
1b	FLATTENED BAMBOO FINISH
2b	15-25MM THICK SMOOTH TROWEL CEMENT PLASTER FINISH
NOTE: ALL FINISHES MAY CHANGE AS PER OWNER'S APPROVAL.	



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			CHECKED BY:	
			L.F.L.	

**1 GENERAL NOTES**

GENERAL NOTES AND TYPICAL STRUCTURAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED.

FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT FOR SIMILAR CONDITIONS. MODIFY TYPICAL DETAILS AS REQUIRED TO MEET SPECIAL CONDITIONS.

THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK OR DURING CONSTRUCTION.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAY IMPOSED DURING CONSTRUCTION.

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST APPLICABLE STANDARDS OR SPECIFICATIONS. ALL WORKS SHALL CONFORM WITH THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES.

INSPECTION - ALL CONSTRUCTION AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION, EXAMINATION AND TESTING BY THE ENGINEER/ARCHITECT. THE ENGINEER/ARCHITECT SHALL HAVE THE RIGHT TO REJECT DEFECTIVE MATERIALS AND WORKMANSHIP OR REQUIRE ITS CORRECTION.

UNLESS SPECIFICALLY DETAILED ELSEWHERE CONTRACTOR SHALL FOLLOW TYPICAL DETAILS AS SHOWN IN THESE DRAWINGS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.

IN THE INTERPRETATION OF THIS DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCE OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.

SPECIAL NOTE : DIMENSIONS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. ARCHITECTURAL DRAWINGS SHALL BE USED TO DEFINE DETAIL CONFIGURATIONS, ELEVATIONS, OPENINGS, JOINTS, SLOPES, ETC.

ALL STRUCTURAL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE NOTED.

REINFORCEMENT BAR SIZES AND SPACING ARE IN MILLIMETERS, SPACING IS CENTER TO CENTER OF BARS.

ALL STRUCTURAL DRAWINGS SHOULD BE READ CONJUNCTION WITH SPECIFICATIONS, ARCHITECTURAL AND ALL OTHER ENGINEERING DRAWINGS.

IN CASES OF CONFLICT IN DETAILS AND DIMENSIONS BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, REFER TO THE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE FOR FINAL DECISION.

IN CASES OF CONFLICT BETWEEN THE DRAWINGS, GENERAL NOTES AND SPECIFICATIONS, THE WORKING DRAWING SHALL GOVERN.

IN CASES OF CONFLICT BETWEEN THIS GENERAL NOTES AND SPECIFICATIONS, THE GENERAL NOTES SHALL GOVERN.

**2 DESIGN LOADS**

**2.1 DEAD LOADS**  
THE DESIGN DEAD LOAD UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL PLANS ARE AS FOLLOWS:

CONCRETE	= 24 KN/m <sup>2</sup>
STEEL	= 77 KN/m <sup>2</sup>
BAMBOO (BAMBUSA BLUMEANA)	= 7 KN/m <sup>2</sup>
TIMBER (SPRUCE PINE FIR-SPF)	= 5.4 KN/m <sup>2</sup>
G.I SHEETS (GAUGE #. 30)	= 0.0314 KN/m <sup>2</sup> (PER MM THICKNESS)
GYPSON BOARD (CEILING)	= 0.008 KN/m <sup>2</sup> (PER MM THICKNESS)
PLYWOOD	= 0.008 KN/m <sup>2</sup> (PER MM THICKNESS)
100MM THICK CHB	= 2.98 KN/M PER METER HEIGHT
150MM THICK CHB	= 3.11 KN/M PER METER HEIGHT

THE ARCHITECTURAL AND BUILDING CONTRACTOR SHALL GET THE APPROVAL OF THE STRUCTURAL ENGINEER OF ANY LOADING DIFFERENT FROM OR EXCEEDING THE DESIGN LOADS.

**2.2 LIVE LOADS**  
THE DESIGN LIVE LOAD UNLESS OTHERWISE SPECIFIED IN THE PLANS ARE AS FOLLOWS :

FLOOR LIVE LOAD	= 1.90 KN/m <sup>2</sup>
ROOF LIVE LOAD	= 0.60 KN/m <sup>2</sup>

-THESE DESIGN LIVE LOADS SHALL NEVER BE EXCEEDED AT ANY TIME DURING THE LIFE OF THE STRUCTURE WITHOUT THE WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.

-IT SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE BUILDING TO GET THE APPROVAL OF THE STRUCTURAL ENGINEER OF ANY LIVE LOAD WHICH WILL BE IMPOSED ON AN AREA OF THE BUILDING DIFFERENT FROM AND OR EXCEEDING THE DESIGN LIVE LOADS SPECIFIED HEREIN.

-NO PORTION OF THE BUILDING SHALL BE USED AS TEMPORARY STORAGE OF CONSTRUCTION MATERIALS IN EXCESS OF THE DESIGN LIVE LOADS WITHOUT THE CONSENT OF THE STRUCTURAL ENGINEER.

**2.3 EARTHQUAKE LOADS**  
THE DESIGN EARTHQUAKE LOADS ARE AS PER NATIONAL STRUCTURAL CODE OF THE PHILIPPINES 2015 7TH EDITION.

**2.4 WIND LOADS**  
THE DESIGN WIND LOADS ARE AS PER NATIONAL STRUCTURAL CODE OF THE PHILIPPINES 2015 7TH EDITION.

**2.5 EQUIPMENT LOADING**  
EQUIPMENT NOT INDICATED IN THE PLANS SHALL NOT BE INSTALLED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. THE MANUFACTURER SHALL SUBMIT EQUIPMENT DATA SPECIFYING THE WEIGHT, AND ITS REACTION AT THE BASE, AND ITS VIBRATION CHARACTERISTICS.

**3 FOUNDATION AND SOIL DATA**

CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND ACHIEVE THE FOLLOWING SOIL PARAMETERS USED IN DESIGN:

- UNLESS OTHERWISE MENTIONED IN OTHER PLACE NET ALLOWABLE BEARING CAPACITY OF SOIL AT FOUNDATION LEVEL SHALL BE ASSUMED NOT LESS THAN 65KPA.
- ANGLE OF INTERNAL FRICTION FOR BACKFILL BEHIND WALLS SHALL BE ASSUMED EQUAL TO 30°.

FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.

WATER TABLE IS ASSUMED BELOW THE BOTTOM OF FOOTINGS/ FOUNDATION IF THE CONTRACTOR FOUND WATER TABLE ABOVE THE BOTTOM OF FOOTINGS/ FOUNDATION THEN IT SHOULD INFORM THE CLIENT/ DESIGNER.

NO UTILITIES SHALL PASS THROUGH WALL FOOTINGS, COLUMN FOOTINGS OR FOOTING THE BEAMS UNLESS SPECIFICALLY INDICATED ON STRUCTURAL DRAWINGS.

**4 TIMBER**

**4.1 TIMBER SPECIES**  
-SPRUCE PINE FIR (SPF) TIMBER - (ECOFOR LUMBER) OR EQUIVALENT  
-SMOOTH ON FOUR SIDES (S4S)  
**4.2 MOISTURE CONTENT**  
-KILN DRIED 14% TO 19%  
**4.3 GRADE**  
-GRADE #2A  
**4.4 ALLOWABLE STRESSES**  
F<sub>b</sub> = 6.033 MPa  
F<sub>t</sub> = 3.103 MPa  
F<sub>c</sub> = 7.929 MPa  
F<sub>e</sub> = 2.93 MPa  
F<sub>v</sub> = 0.931 MPa  
E = 9652.648 MPa  
E<sub>min</sub> = 3516 MPa  
**4.5 ALL TIMBER ELEMENTS MUST BE TREATED BEFORE PANEL FABRICATION OR ANY OTHER INSTALLATION WITH 2 COATS OF SOLIGNUM BROWN OR EQUIVALENT.**  
**4.6 APPLY 2 COATS OF SOLIGNUM BROWN OR EQUIVALENT TO EVERY CUT OR DRILLED SURFACE.**  
**4.7 TIMBER ELEMENTS WITH EVIDENCE OF INSECT INFESTATION OR FUNGUS GROWTH SHALL BE REJECTED.**

**5 REINFORCING BAR**

**SCHEDULE OF REINFORCING BARS**

DIAMETER OF BARS	GRADE (fy)	ASTM
#8 AND SMALLER	GRADE 33 (227.50 MPa)	A615/A615M (DEFORMED)
#12 AND #10	GRADE 40 (275.80 MPa)	A615/A615M (DEFORMED)
#16 AND LARGER	GRADE 60 (413.70 MPa)	A615/A615M (DEFORMED)

BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

ALL GRADE 60 REINFORCING STEEL SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM GRADE 40 AND 33 REINFORCEMENT STEEL IF CONCURRENTLY ON SITE.

BARS NOTED AS CONTINUOUS SHALL HAVE A MINIMUM SPLICE LENGTH OF 40 BAR DIAMETERS BUT NOT LESS THAN 600MM, UNLESS OTHERWISE NOTED.

MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE:

ITEM	COVER
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	75 mm
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	50 mm
EXPOSED TO EXTERIOR OR WEATHER	40 mm
SLAB ON GRADE	50 mm
SUSPENDED SLABS	20 mm
BEAM STIRRUPS AND COLUMN TIES	40 mm

ANY WELDING TO BE PERFORMED MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEERS.

WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN OF THE DRAWINGS. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-79 "AWS STRUCTURAL WELDING CODE - REINFORCING STEEL" OF THE AMERICAN WELDING SOCIETY REINFORCING STEEL WHICH IS WELDED SHALL CONFORM TO ASTM A-706. REINFORCING STEEL NOT CONFORMING TO ASTM A-706 MAY BE USED IF MATERIAL PROPERTIES OF THE REINFORCING STEEL CONFORM TO AWS D1.4-79.

WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185. WELDED WIRE FABRIC IN SUSPENDED SLABS SHALL HAVE F<sub>y</sub> = 60 KSI. LAP 152 MM. MINIMUM OR ONE FULL MESS, WHICHEVER IS GREATER FOR SLABS ON GRADE.

ANCHOR BOLTS, DOWEL AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.

THE REINFORCEMENT REBARS SHALL BE FUSION BONDED EPOXY COATED ONLY IN CONCRETE WHICH IS INDIRECT CONTACT WITH SOIL AND UP TO 1.0M ABOVE GRADE.

**6 BAMBOO**

**6.1 BAMBOO SPECIES**  
A. SCIENTIFIC NAME : BAMBUSA BLUMEANA  
B. LOCAL NAME : KAWAYAN TINK  
**6.2 BAMBOO ALLOWABLE STRESSES**  
F<sub>b</sub> = 20.8 MPa, F<sub>v</sub> = 1.5 MPa  
F<sub>t</sub> = 27.6 MPa, F<sub>t</sub> = 25.3 MPa, (TENSION PARALLEL)  
F<sub>c</sub> = 13,200 MPa, F<sub>c</sub> = 0.13 MPa, (TENSION PERPENDICULAR)  
E = 19,800 MPa  
**6.3 AGED 3 TO 5 YEARS OLD (BEFORE HARVESTING) - OPTIMAL AGE FOR PEAK STRUCTURAL PERFORMANCE.**  
**6.4 DRIED BAMBOO TILL 16% MOISTURE CONTENT**  
**6.5 ALL BAMBOO ELEMENTS MUST BE TREATED WITH ENVIRONMENT FRIENDLY SOLUTIONS BEFORE PANEL FABRICATION OR ANY OTHER INSTALLATION.**  
**6.6 BAMBOO CULM DIAMETER : 70MM TO 120MM**  
**6.7 BAMBOO CULM WALL THICKNESS : 7MM TO 20MM**  
**6.8 THE CURVE ON BAMBOO CULM SHOULD NOT BE MORE THAN 2% OF ITS LENGTH**  
**6.9 BAMBOO ELEMENTS WITH EVIDENCE OF INSECT INFESTATION OR FUNGUS GROWTH SHALL BE REJECTED.**  
**6.10 WATER PIPES AND OUTLETS MUST NOT BE EMBEDDED WITHIN BAMBOO STRUCTURAL ELEMENTS SUCH AS WALL AND CEILINGS. INSTEAD, THEY MUST BE ATTACHED TO THE WALL AND CEILING SURFACES TO PREVENT A LEAK FROM DAMAGING THE BUILDING.**  
**6.11 CEMENT BAMBOO FRAME SHEAR WALL RESISTANCE**  
WALL WITH CLADDING ON 2 SIDES = 8.0 KN/M  
WALL WITH CLADDING ON 1 SIDE = 4.0 KN/M  
**6.12 ALL BAMBOO CONNECTIONS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT WITH 1:3 MIXTURE.**  
**6.13 THE NODE-TO-NODE REQUIREMENTS OF VERTICAL STUDS ON THE CBFT WALL PANEL SHALL BE IMPLEMENTED TO THE END STUDS OF THE STRUCTURAL SOLID WALL PANEL WITH THE MAXIMUM OF 100MM FROM THE NODE TO END CUT AT THE TOP AND 50MM AT THE BOTTOM AND THE INTERMEDIATE VERTICAL STUDS SHALL HAVE MAXIMUM OF 200MM FROM THE NODE TO END CUT AT THE TOP AND 50MM AT THE BOTTOM**  
**6.14 FOR THE CBFT WALL PANEL WITH OPENING DIMENSIONS EXCEED ONE THIRD OF EITHER THE LENGTH OR HEIGHT OF A WALL PANEL LIKE A DOOR PANEL AND WINDOW PANEL, THE NODE-TO-NODE REQUIREMENTS SHALL BE APPLIED TO THE END OF THE VERTICAL STUDS OF THE WALL AND STUDS BESIDE THE OPENINGS WITH THE MAXIMUM OF 100MM FROM THE NODE TO END CUT AT THE TOP AND 50MM AT THE BOTTOM.**

**7 REINFORCED CONCRETE NOTES**

**SCHEDULE OF STRUCTURAL CONCRETE 28-DAY COMPRESSIVE STRENGTH AND TYPES**

LOCATION	STRUCTURAL ELEMENTS	28-DAY COMPRESSIVE STRENGTH	MIXTURE	DENSITY	MAX SLUMP
FOUNDATION TO GROUND LEVEL	FOUNDATION	20.7 MPa (3000 psi)	1:2:3	24kN/m <sup>3</sup>	100mm (4")
	RING BEAM	20.7 MPa (3000 psi)	1:2:3		
	SLAB ON GRADE	17 MPa (2500 psi)	1:2:4		

INFORM ARCHITECT/ENGINEERS OF OTHER MISCELLANEOUS CONCRETE STRUCTURAL ELEMENTS NOT SHOWN ABOVE TO DETERMINE THEIR RESPECTIVE COMPRESSIVE STRENGTHS.

**SCHEDULE OF CONCRETE AGGREGATES**

ITEMS	AGGREGATE SIZE
SLABS, BEAMS, COLUMNS	19 mm (3/4")
CURBS & MASS CONCRETE	25 mm (1")

CEMENT SHALL CONFORM TO PORTLAND CEMENT ASTM C150.

REINFORCED CONCRETE SHALL USE TYPE-I CEMENT AND SHALL INCORPORATE POZZOLANS IN ACCORDANCE WITH THE CONTRACT SPECIFICATION. CONCRETE WITHOUT REINFORCEMENT (UNREINFORCED CONCRETE) SHALL USE TYPE-V CEMENT WITHOUT POZZOLANS.

CONCRETE AGGREGATE SHALL CONFORM TO ASTM C33 EXCEPT THAT AGGREGATES FAILING TO MEET THOSE SPECIFICATION BUT WHICH HAVE PRODUCED CONCRETE OF ADEQUATE STRENGTH AND DURABILITY MAYBE USED SUBJECT TO THE APPROVAL OF THE ENGINEER.

WATER USED IN MIXING CONCRETE SHALL BE CLEAN AND FREE FROM INJURIOUS AMOUNT OF OILS, ACIDS, ALKALIS, SALTS, ORGANIC MATERIALS OR OTHER SUBSTANCES DELETERIOUS TO CONCRETE AND STEEL. SEA WATER IS NOT ALLOWED.

CEMENT AND AGGREGATES SHALL BE STORED IN SUCH A MANNER AS TO PREVENT THEIR DEGRADATION OR THE INTRUSION OF FOREIGN MATTER.

ALL INSERTS, ANCHOR BOLTS, PLATES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.

WHERE A CONSTRUCTION JOINT IS TO BE MADE THE SURFACE OF THE CONCRETE SHALL BE THOROUGHLY CLEANED AND ALL LANTICE AND STANDING WATER REMOVED. VERTICAL COATED WITH NEAT CEMENT GROUT IMMEDIATELY BEFORE PLACING OF NEW CONCRETE.

CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HAND WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.

ALL CONCRETE SHALL BE CURED OR 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.

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 VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

**8 STRUCTURAL STEEL**

STEEL PLATES, SHAPES, FLAT BARS, BARS AND METAL FABRICATIONS : ASTM A-36.

STRUCTURAL BOLTS AND NUTS:  
ASTM A-307, GALVANIZED #12MM AND BELOW  
ASTM A-325, #16MM AND ABOVE

CROSS BRACE FOR CEMENT BAMBOO FRAME TECHNOLOGY WALL SHALL BE 1"x8" FLAT BARS.

MINIMUM CORRUGATED G.I SHEET THICKNESS IS 0.4MM (GAUGE #. 30)

MINIMUM RIB LATH THICKNESS IS 0.35MM

ELECTRODES FOR WELDING: ASTM A233 E-70XX SERIES; COMPLY WITH AWS D1.1 CODE REQUIREMENTS.

FLAME CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST 'STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION' OF THE AMERICAN WELDING SOCIETY.

ALL BUTT WELDS SHALL BE FULL PENETRATION WELDS AND SHALL BE PROPERLY BACK-CHIPPED OR GOUNGED. BACK-UP PLATES SHALL BE PROVIDED AS REQUIRED.

APPLY TT-P-645 SHOP PAINT FOR ALL FABRICATIONS.

SHOP PAINTING FOR STRUCTURAL STEEL SHALL BE RUST INHIBITIVE PRIMER WITH MINIMUM D.F.T OF 2.0 MILS.

TOUCH-UP PAINTING: APPLY PAINT TO EXPOSED AREAS IN MANNER SATISFACTORY TO THE ENGINEER WITH SAME MATERIAL AS SHOP PAINT.

EMBEDDED STEEL ITEMS IN CONCRETE SUCH AS BOLTS, OPENING COVER ETC. SHALL BE STAINLESS STEEL WITH YIELD STRENGTH NOT LESS THAN YIELD STRENGTH OF THE ORIGINAL MATERIALS AND ALL CONCRETE THAT HAS EMBEDDED ITEMS SHOULD BE MADE WITH CEMENT TYPE-E WITH POZZOLAN.

APPLICATION OF FIRE PROOFING SYSTEM IS REQUIRED FOR ALL STRUCTURAL STEEL MEMBERS. PROVIDE 2 HOUR MINIMUM FIRE RATING. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR ADDITIONAL FIRE PROOFING REQUIREMENTS.

**9 MASONRY**

ALL CONCRETE HOLLOW BLOCKS SHOULD BE LOAD BEARING AND MUST DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF f<sub>m</sub>=11.7 MPa.

ALL CONCRETE HOLLOW BLOCKS MASONRY WALLS SHALL BE LAID IN RUNNING BOND (INTERLOCKING COURSE) WITH FULL MORTAR BEDDING.

USE MORTAR TYPE M FOR MASONRY.

ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT WITH 1:2:3 MIXTURE.

MORTAR CEMENT WITH 1:3 MIXTURE SHALL BE USED FOR WALL CLADDING FINISH.

CEMENT FOR PLASTER SHALL BE TYPE 1P OR WALLRIGHT MASONRY CEMENT.

BLOCK WALL REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS WHERE SPLICED, HORIZONTAL/VERTICAL DOWELS FROM FOOTINGS, COLUMNS/WALLS OR SLABS SHALL EXTEND INTO THE BLOCK WALL A MINIMUM OF 40 BAR DIAMETERS OR A MINIMUM OF 600 mm, WHICHEVER IS LONGER AND DOWELS TO MATCH VERTICAL REINFORCEMENTS OF WALL.

VERTICAL REINFORCING SHALL BE CONTINUOUS FROM STRUCTURAL LEVEL TO STRUCTURAL LEVEL UNLESS OTHERWISE NOTED.

PROVIDE 1-#12 EXTRA VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS, AND EACH SIDE OF OPENINGS.

**10 BAR BENDING DETAILS AND STANDARD HOOK**

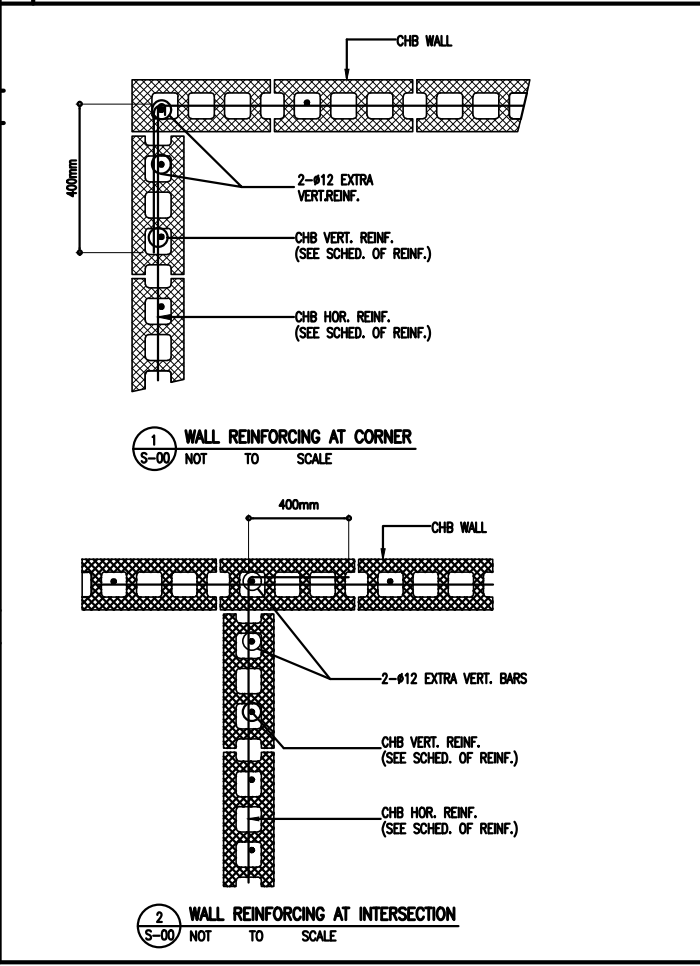
**STANDARD HOOK FOR STIRRUPS, TIES, AND HOOPS**

TYPE OF STANDARD HOOK	BAR SIZE	MINIMUM INSIDE BEND DIAMETER, D (MM)	STRAIGHT EXTENSION (MM) L <sub>de</sub>	TYPE OF STANDARD HOOK
90-DEGREE HOOK	10MM THROUGH 16MM	4d <sub>b</sub>	GREATER OF 6d <sub>b</sub> AND 75MM	
	20MM THROUGH 25MM	6d <sub>b</sub>	12d <sub>b</sub>	
135-DEGREE HOOK	10MM THROUGH 16MM	4d <sub>b</sub>	GREATER OF 6d <sub>b</sub> AND 75MM	
	20MM THROUGH 25MM	6d <sub>b</sub>	12d <sub>b</sub>	
180-DEGREE HOOK	10MM THROUGH 16MM	4d <sub>b</sub>	GREATER OF 4d <sub>b</sub> AND 65MM	
	20MM THROUGH 25MM	6d <sub>b</sub>	12d <sub>b</sub>	

**STANDARD HOOK FOR DEVELOPMENT OF DEFORMED BARS IN TENSION**

TYPE OF STANDARD HOOK	BAR SIZE	MINIMUM INSIDE BEND DIAMETER, D (MM)	STRAIGHT EXTENSION (MM) L <sub>de</sub>	TYPE OF STANDARD HOOK
90-DEGREE HOOK	10MM THROUGH 25MM	6d <sub>b</sub>	12d <sub>b</sub>	
	28MM THROUGH 36MM	8d <sub>b</sub>	12d <sub>b</sub>	
180-DEGREE HOOK	10MM THROUGH 25MM	6d <sub>b</sub>	GREATER OF 4d <sub>b</sub> AND 65MM	
	28MM THROUGH 36MM	8d <sub>b</sub>	GREATER OF 4d <sub>b</sub> AND 65MM	
	40MM AND 58MM	10d <sub>b</sub>	GREATER OF 4d <sub>b</sub> AND 65MM	
	40MM AND 58MM	10d <sub>b</sub>	GREATER OF 4d <sub>b</sub> AND 65MM	

**11 MASONRY STANDARD DETAILS**



R.A. 9266, ARTICLE IV, SECTION 33: DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENTS OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OF BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENTS.

ARCHITECT:

VEMBEE A. GOHETIA  
CIVIL/STRUCTURAL ENGINEER

PRC NO. : 0004857	VALIDITY : 09/28/2027
P.T.R. NO. : 3519690	DATE : 01/02/2025
PLACE : TUGUEGARAO	TIN : 434-223-673

CLIENT/OWNER:

PROPOSED ONE STOREY DUPLEX HOUSE

LOCATION:

BANGLADESH

PROJECT TITLE:

PROPOSED ONE STOREY DUPLEX HOUSE

LOCATION:

BANGLADESH

SHEET CONTENTS:

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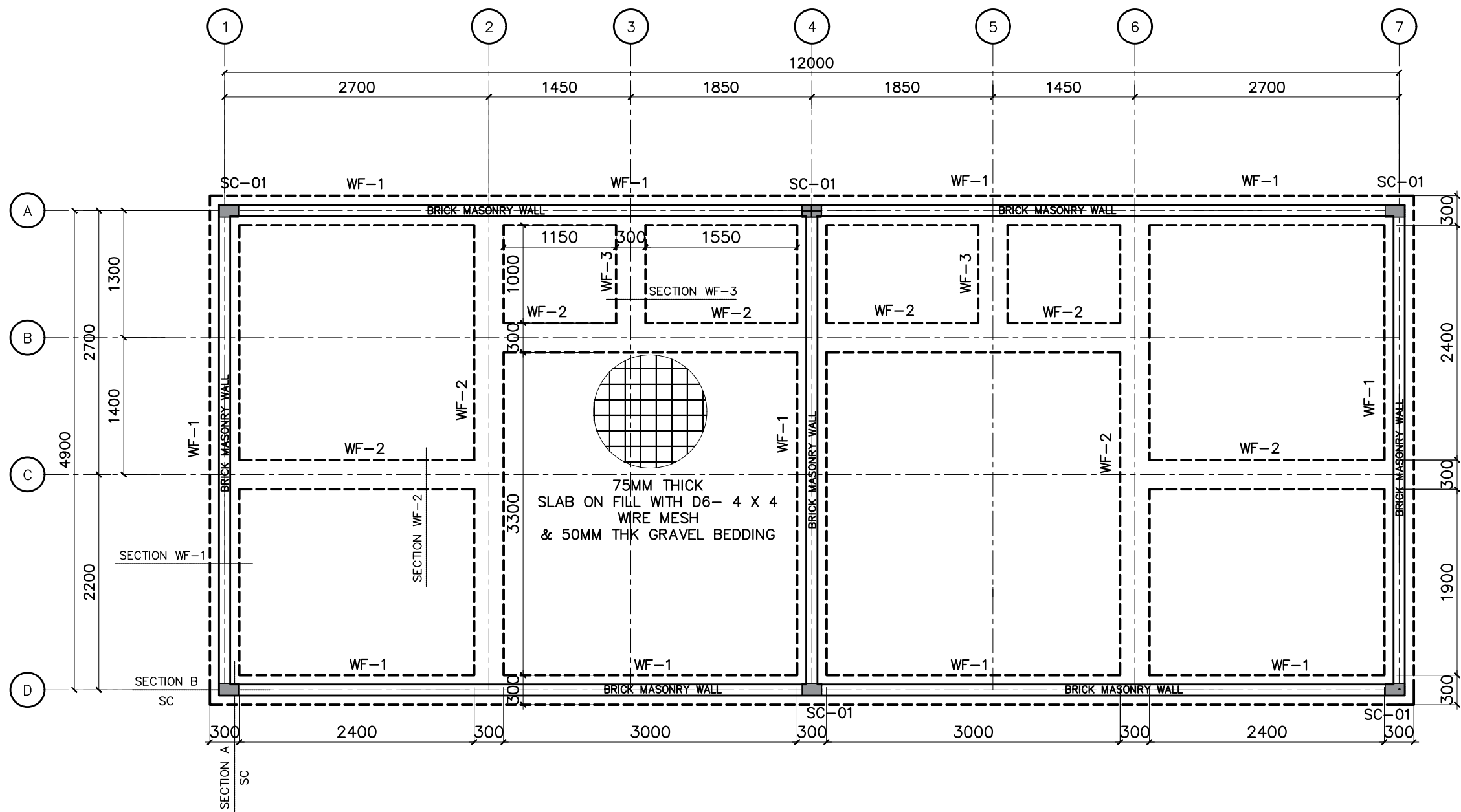
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1
**FOUNDATIONS PLAN**  
 S-01A SCALE 1:50M



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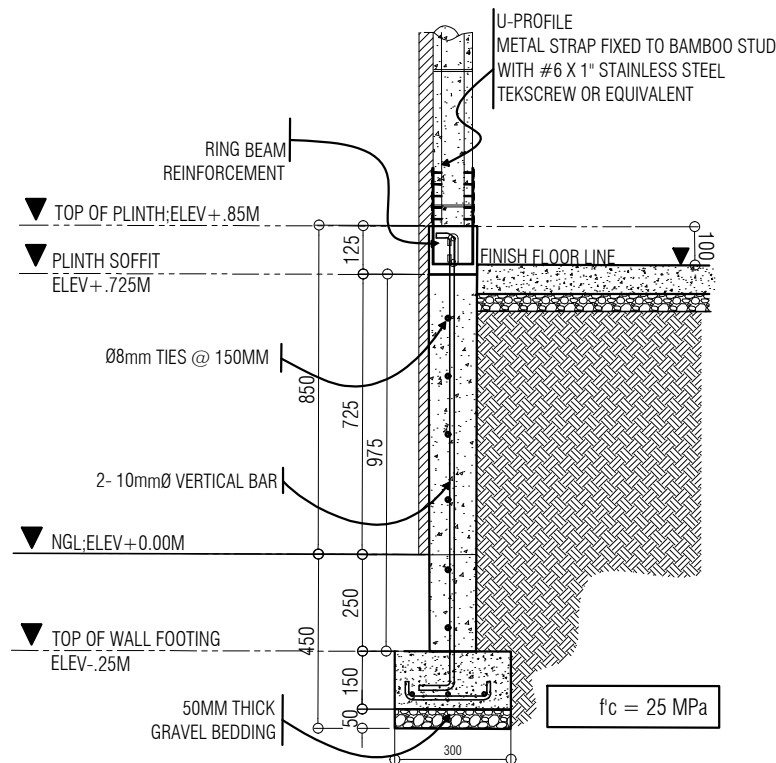
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PROJECT TITLE:	PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:	BANGLADESH

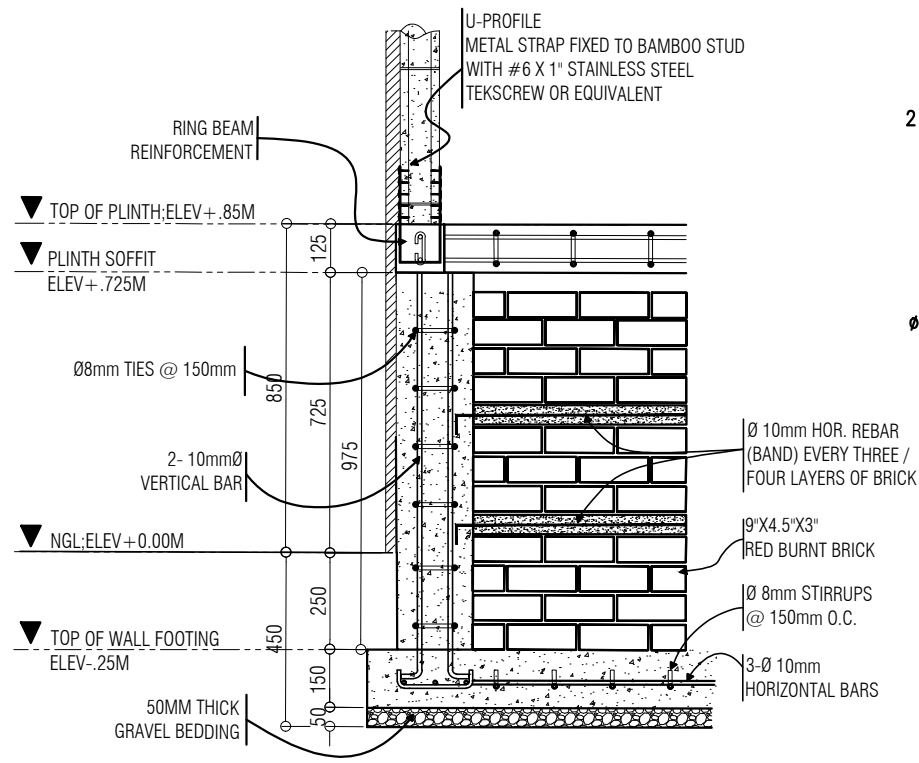
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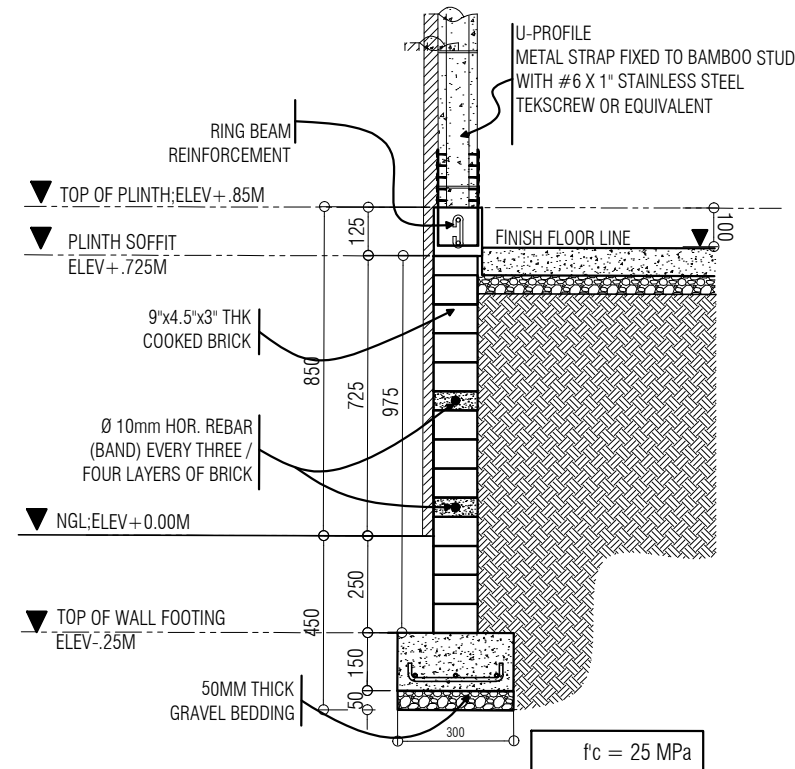
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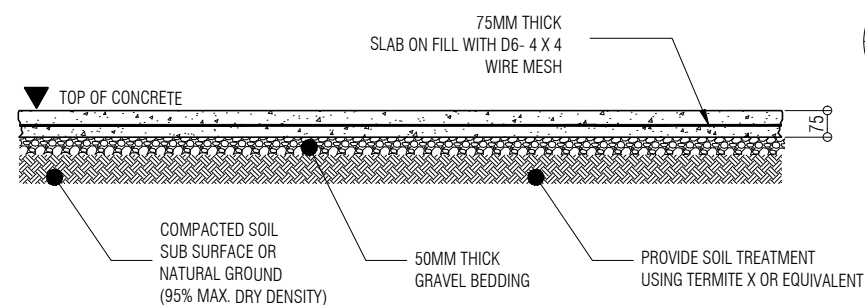
**STIFFENER COLUMN SECTION A DETAIL**



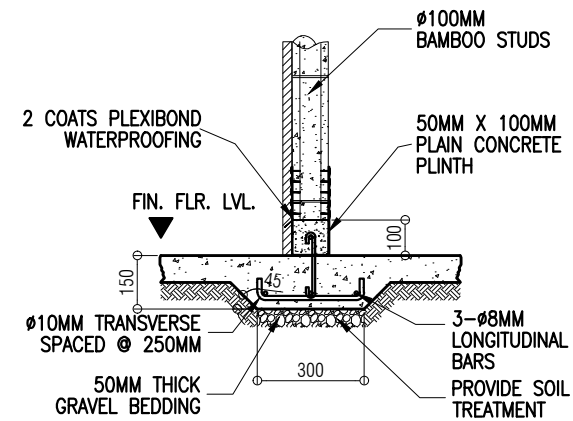
**STIFFENER COLUMN SECTION B DETAIL**



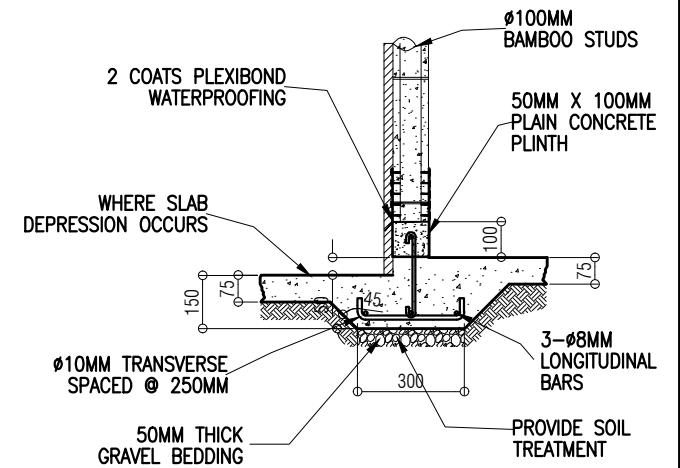
**WF-1 SECTION DETAIL**



**SLAB ON FILL DETAILS**

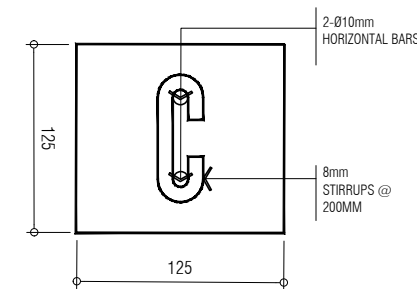


**WF-2 SECTION DETAIL**

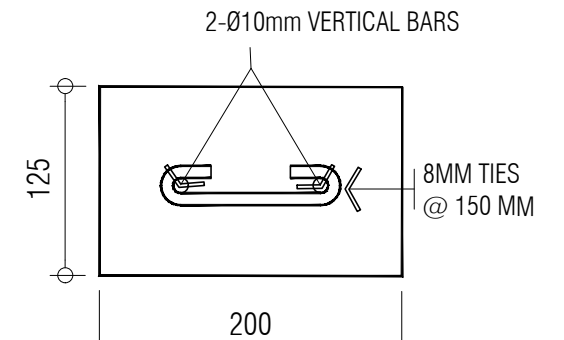


**WF-3 SECTION DETAIL**

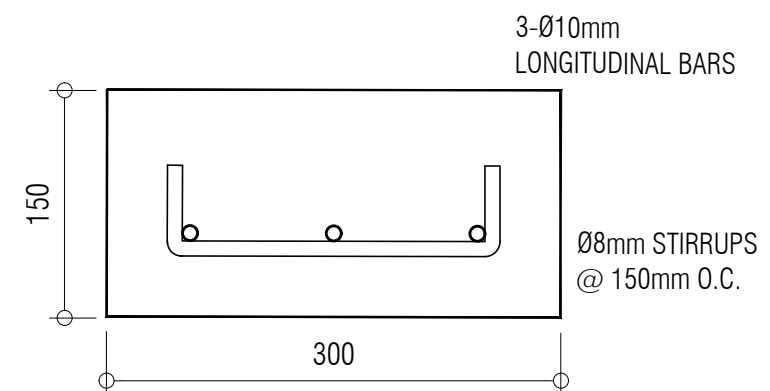
**2 SLAB ENGROSSMENT DETAIL**  
S-01B SCALE 1:50M



**3 PLINTH BEAM DET.**  
S-01B SCALE 1:50M



**4 STIFFENER COL. DET.**  
S-01B SCALE 1:50M



**5 WALL FOOTING BEAM DETAIL**  
S-01B SCALE 1:50M

**1 FOUNDATIONS DETAILS**  
S-01B SCALE 1:50M



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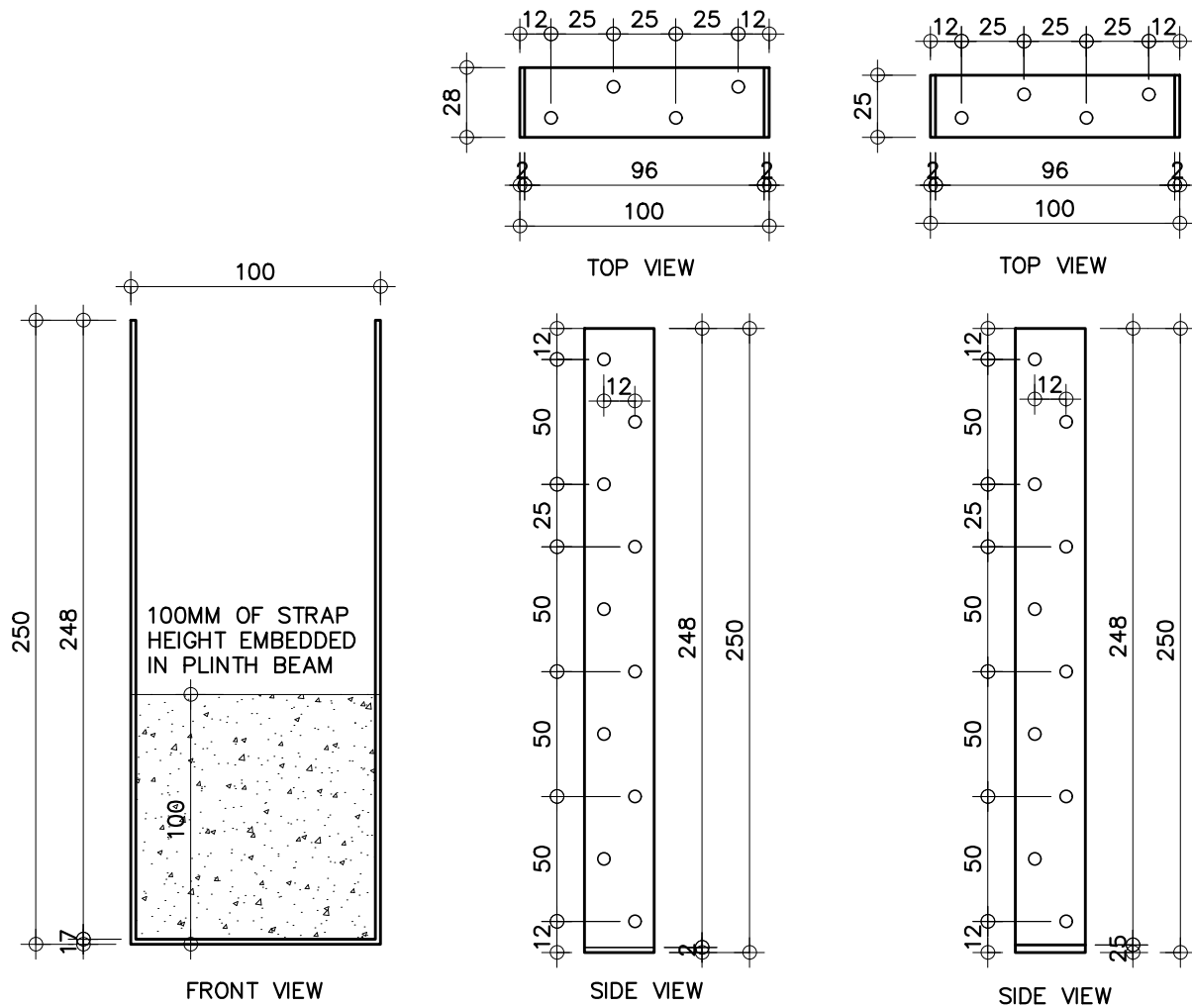
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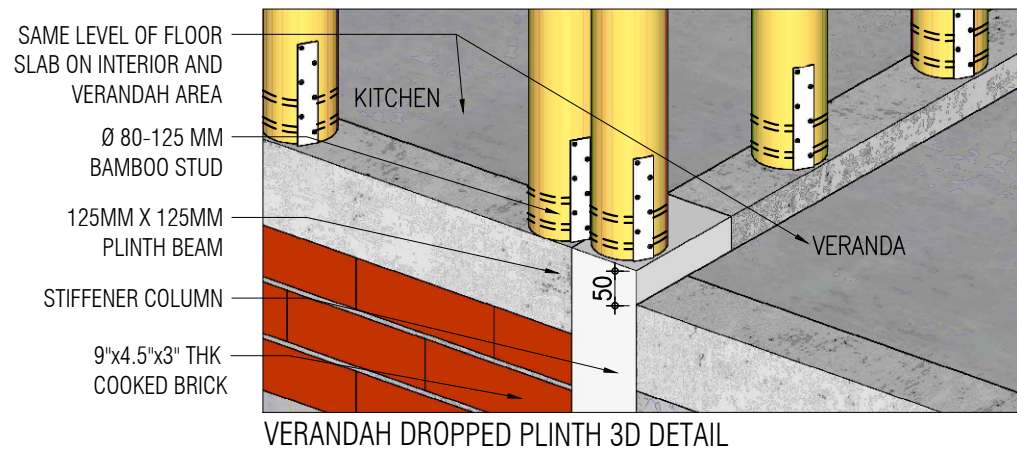
**S 01B**

OPTION 1: 600 X 28 X 2 MM  
LIGHT RESTRAINT STRAPS

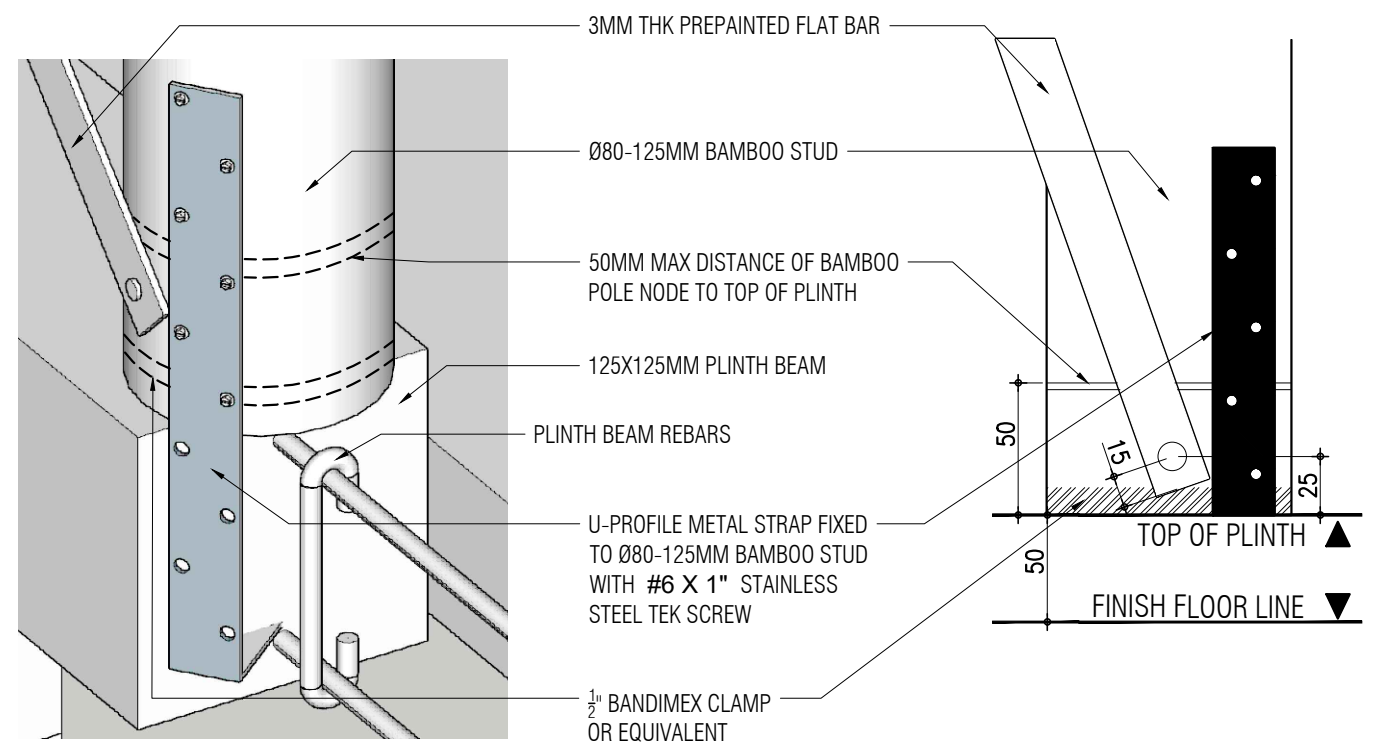
OPTION 2: USING 600 X 25 X 3MM  
FLAT BAR



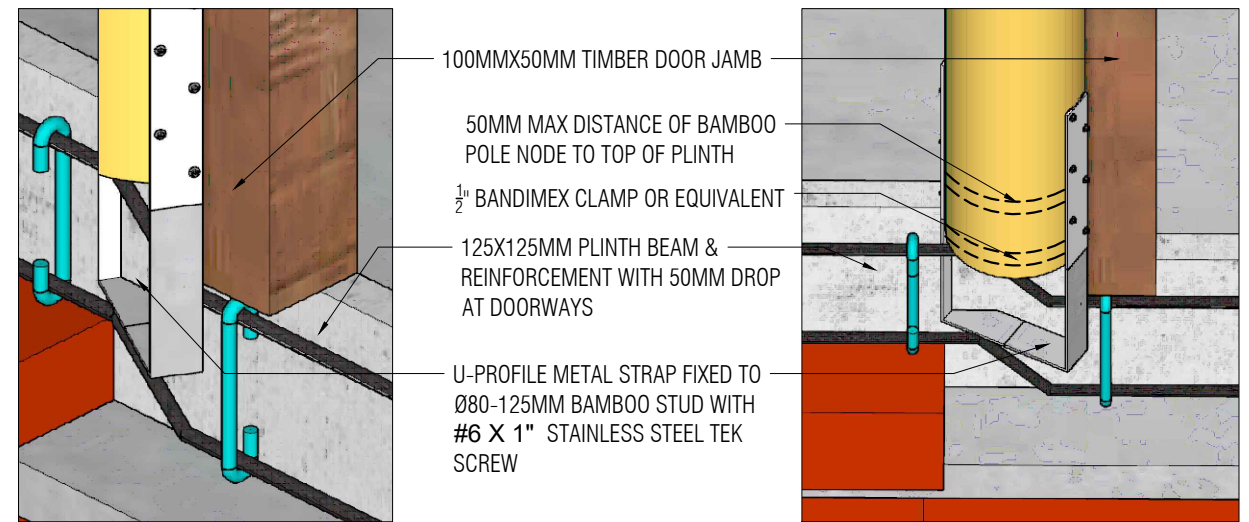
**1 U-STRAP PROFILE DETAILS**  
S-01C SCALE 1:50M



VERANDAH DROPPED PLINTH 3D DETAIL



**2 STUD-STRAP CONNECTION DIAGRAM**  
S-01C SCALE NTS



**4 DOOR JAMB - DROPPED PLINTH 3D DETAIL**  
S-01C SCALE NTS

**3 DROPPED PLINTH DET.**  
S-01C SCALE NTS

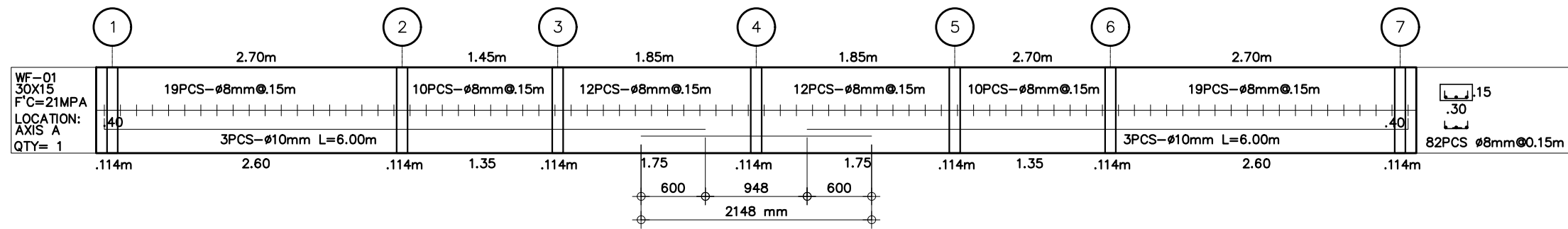


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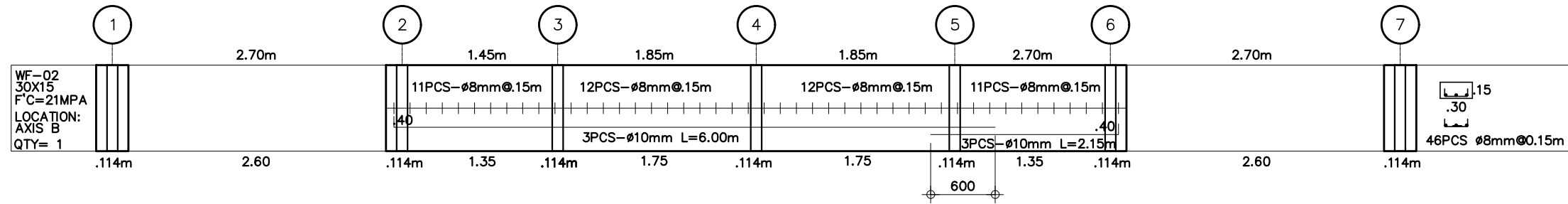
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**VEMBEE A. GOHETIA**  
CIVIL/STRUCTURAL ENGINEER  
PRC NO. : 0004857 VALIDITY : 09/28/2027  
P.T.R. NO. : 3519690 DATE : 01/02/2025  
PLACE : TUGUEGARAO TIN : 434-223-673

CLIENT/OWNER:  
PROJECT TITLE:  
**PROPOSED ONE STOREY DUPLEX HOUSE**  
LOCATION:  
BANGLADESH

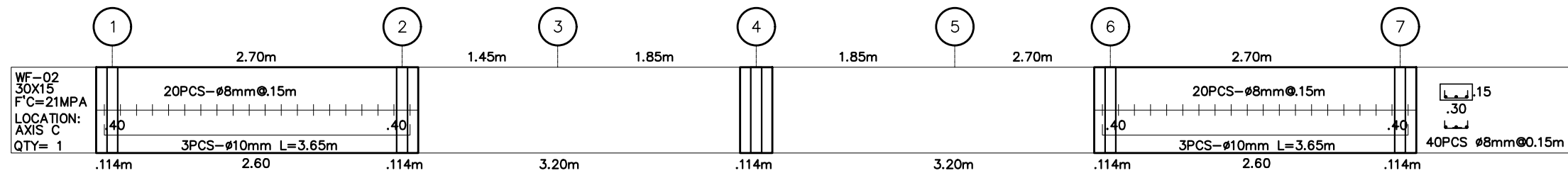
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CHECKED BY: **S 01C**  
L.F.L.



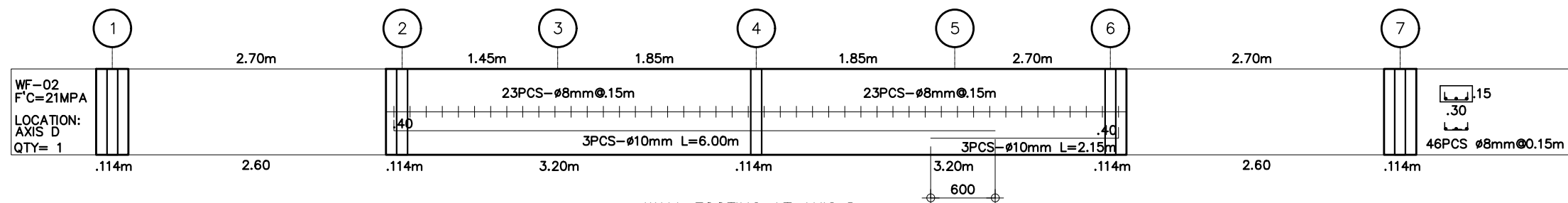
WALL FOOTING AT AXIS A



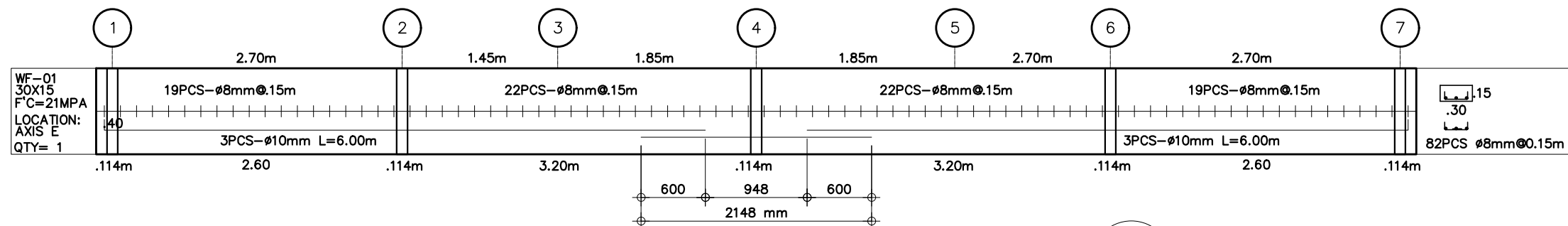
WALL FOOTING AT AXIS B



WALL FOOTING AT AXIS C



WALL FOOTING AT AXIS D



WALL FOOTING AT AXIS E

**1 WALL FOOTING REBAR SCHEDULE**  
S-01D SCALE 1:50M



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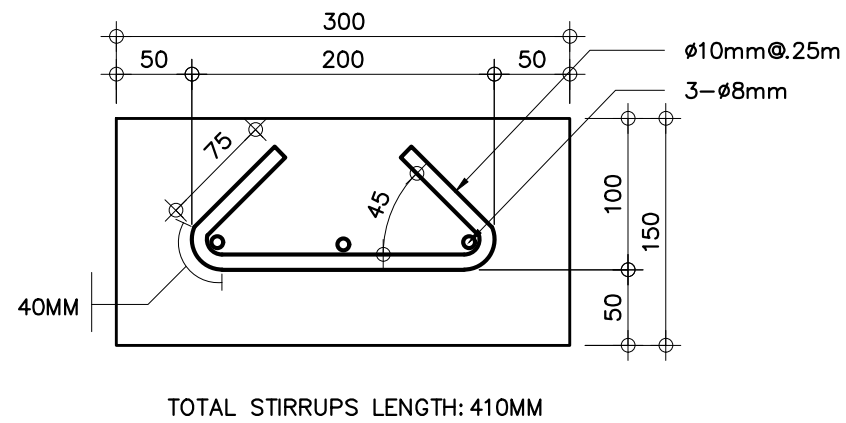
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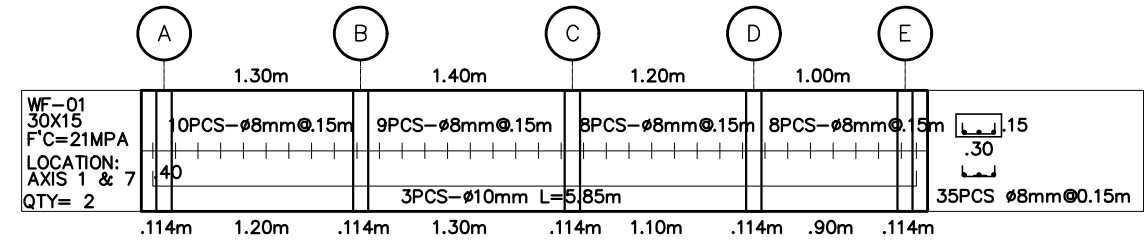
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PROPOSED ONE STOREY DUPLEX HOUSE
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DATE:
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E.M.D.
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L.F.L

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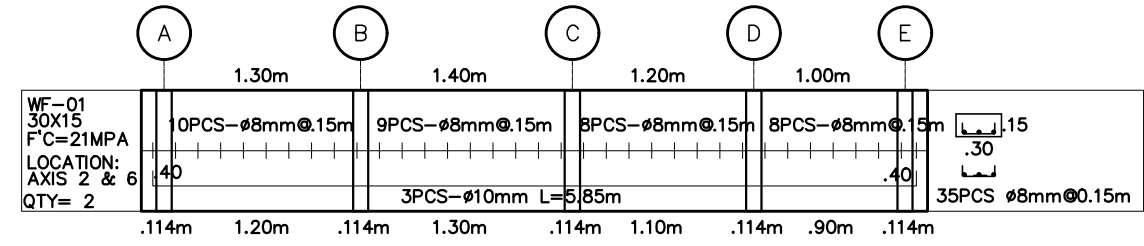
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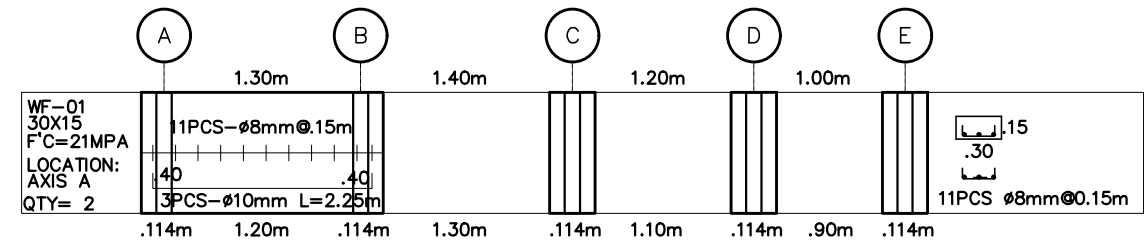
**1 WALL FOOTING REBAR PROFILE**  
 S-01E SCALE 1:5M



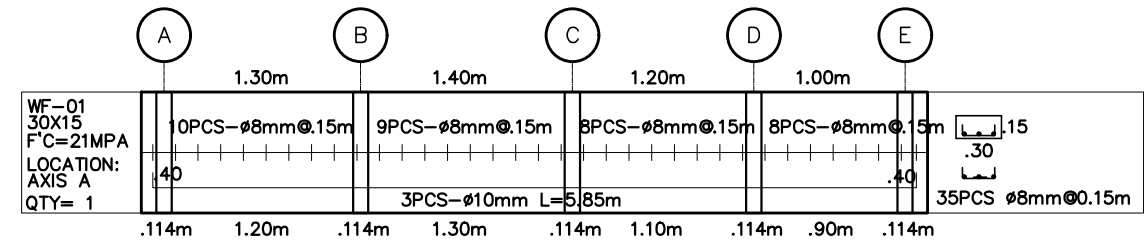
WALL FOOTING AT AXIS 1 & 7



WALL FOOTING AT AXIS 2 & 6



WALL FOOTING AT AXIS 3 & 5



WALL FOOTING AT AXIS 4

**2 WALL FOOTING REBAR SCHEDULE**  
 S-01E SCALE 1:50M

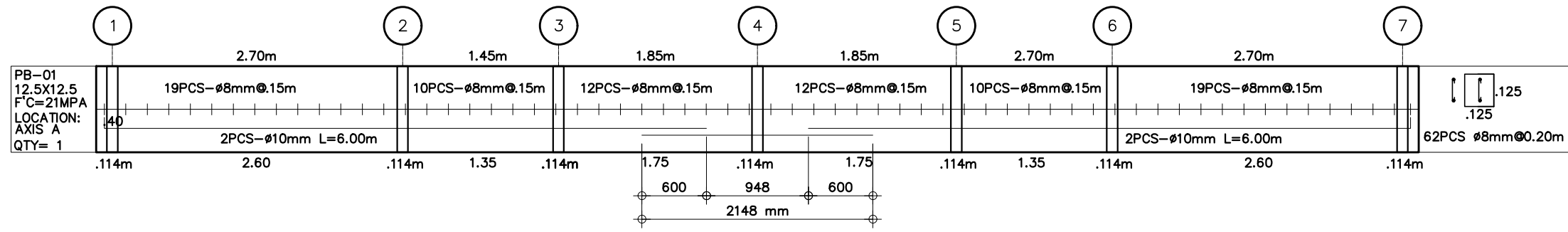


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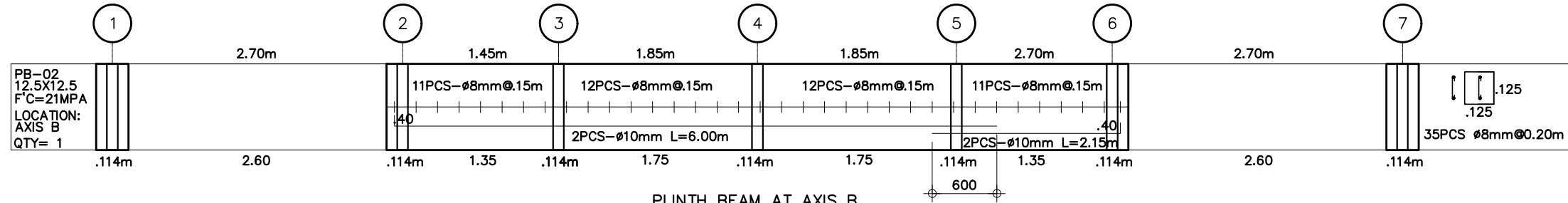
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PROJECT TITLE:	SHEET CONTENTS:
PROPOSED ONE STOREY DUPLEX HOUSE	
LOCATION:	
BANGLADESH	

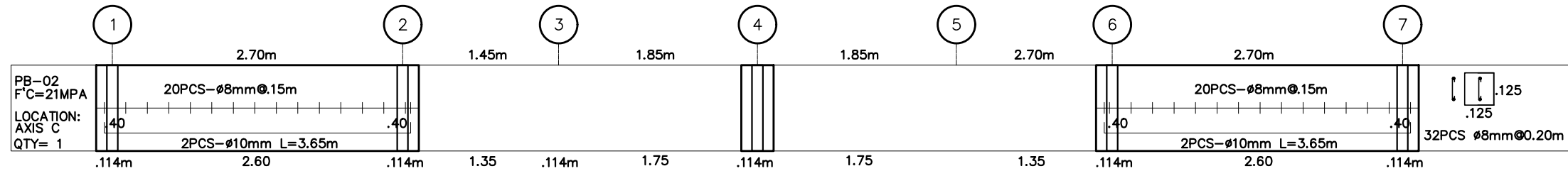
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			CHECKED BY:	
			L.F.L	



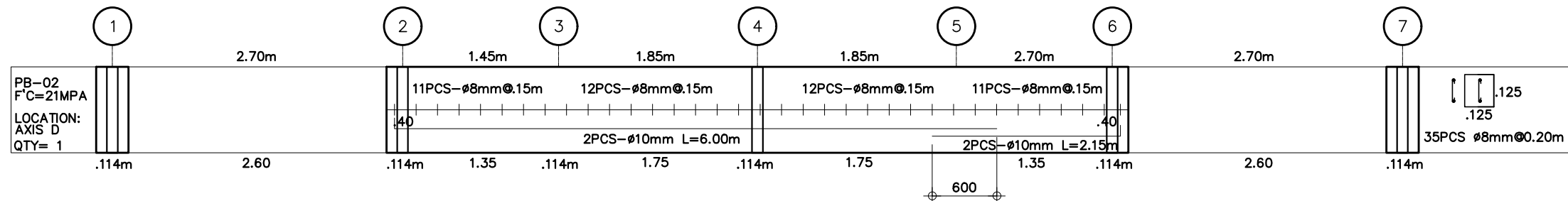
PLINTH BEAM AT AXIS A



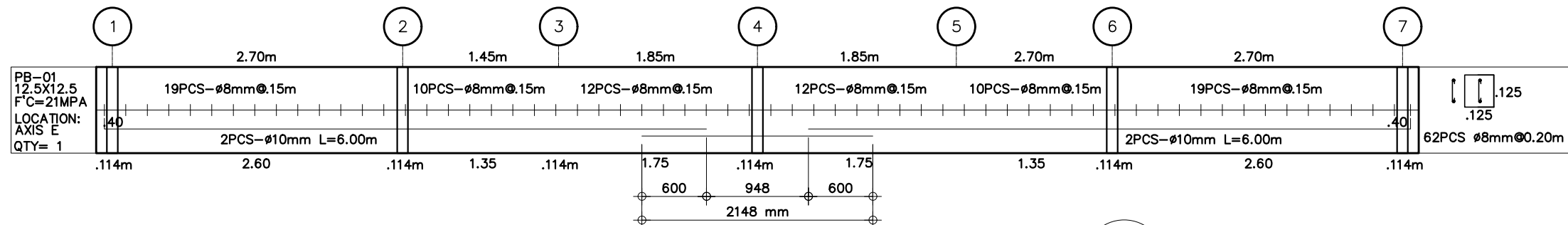
PLINTH BEAM AT AXIS B



PLINTH BEAM AT AXIS C



PLINTH BEAM AT AXIS D



PLINTH BEAM AT AXIS E

**1 PLINTH BEAM REBAR SCHEDULE**  
S-01F SCALE 1:50M



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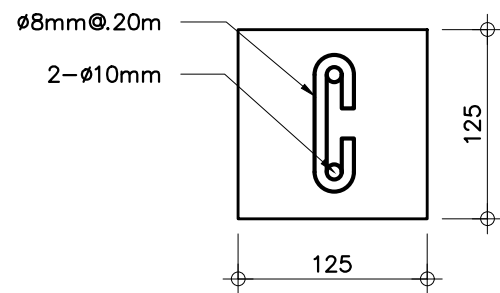
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LOCATION:	
BANGLADESH	

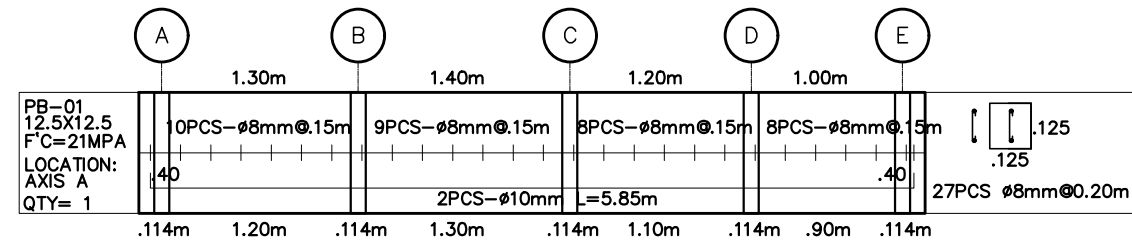
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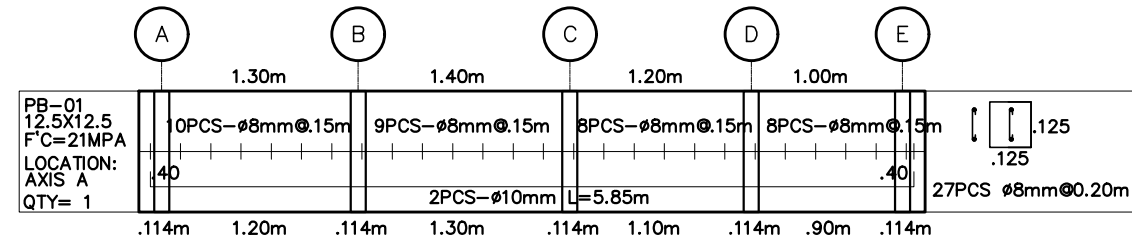
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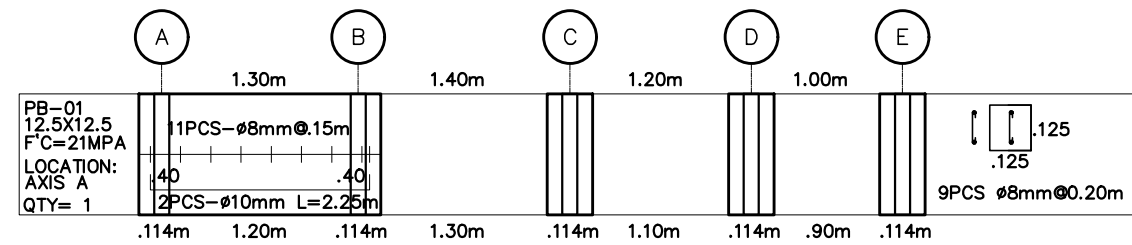
**1 WALL FOOTING REBAR PROFILE**  
S-01G SCALE 1:5M



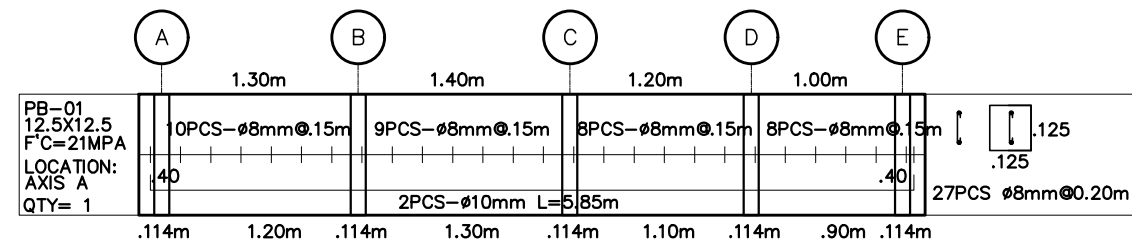
PLINTH BEAM AT AXIS 1 & 7



PLINTH BEAM AT AXIS 2 & 6



PLINTH BEAM AT AXIS 3 & 5



PLINTH BEAM AT AXIS 4

**2 PLINTH BEAM REBAR SCHEDULE**  
S-01G SCALE 1:50M

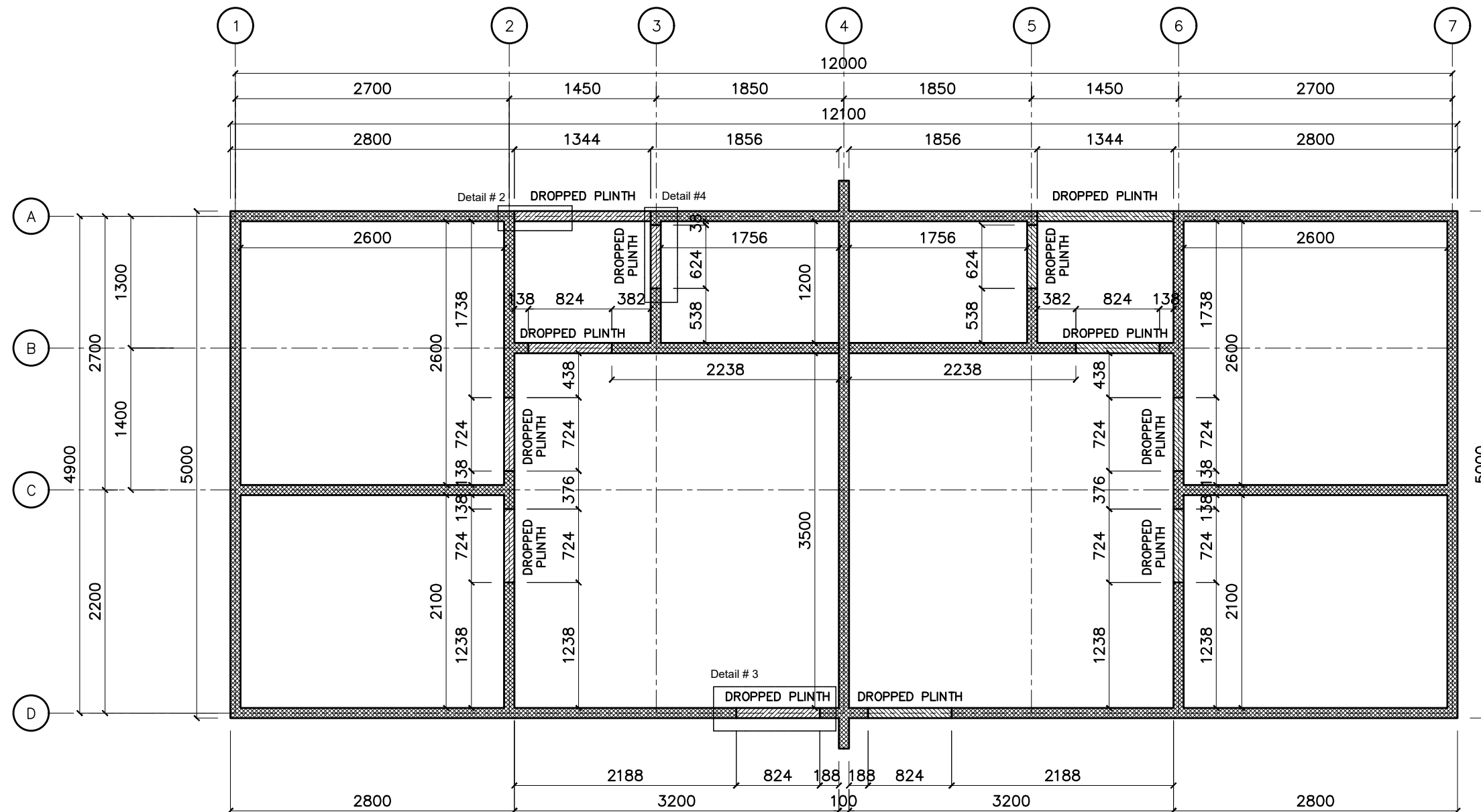


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PLACE : TUQUEGARAO	TIN : 434-223-673		

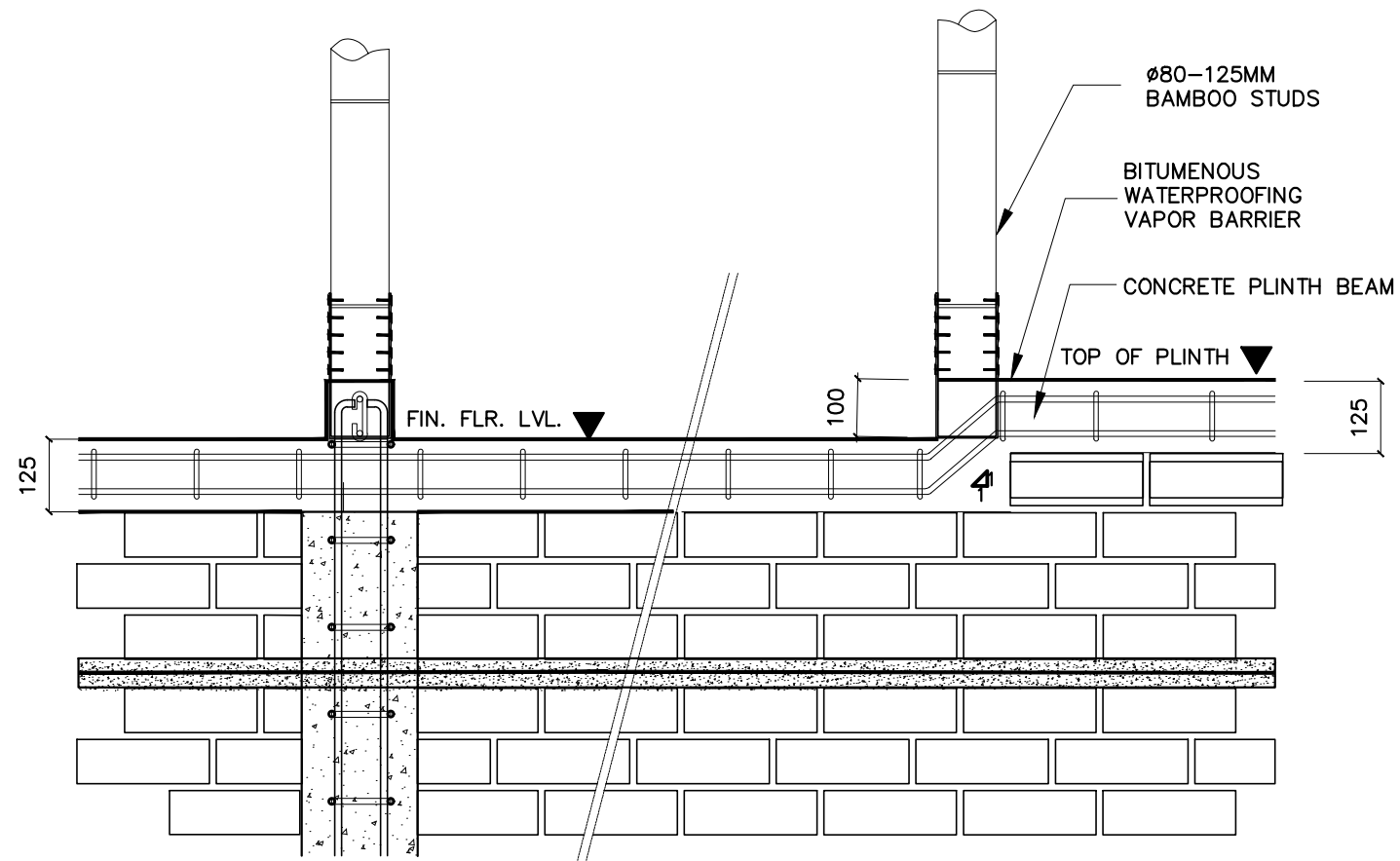
PROJECT TITLE:	SHEET CONTENTS:
PROPOSED ONE STOREY DUPLEX HOUSE	
LOCATION:	
BANGLADESH	

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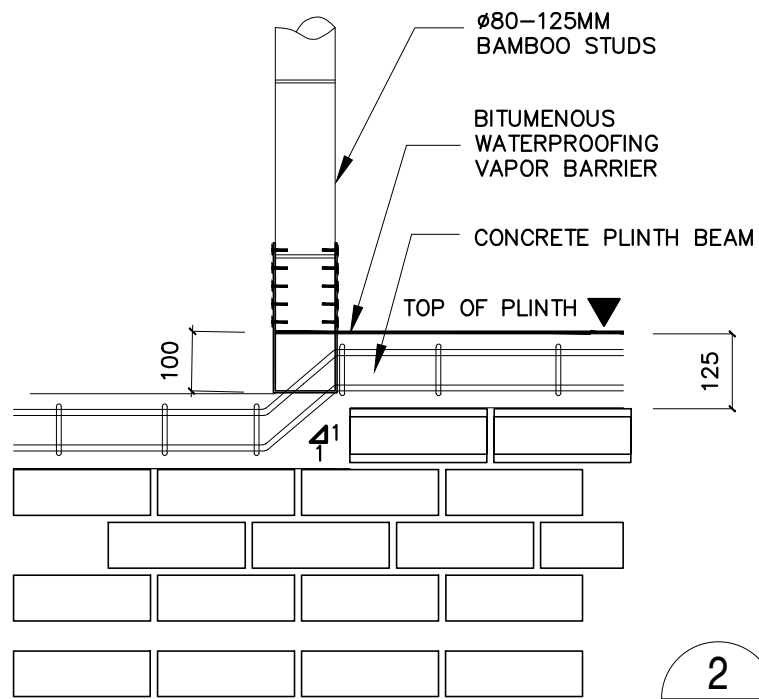


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**PLINTH LAYOUT PLAN**  
 S-01H SCALE 1:50M

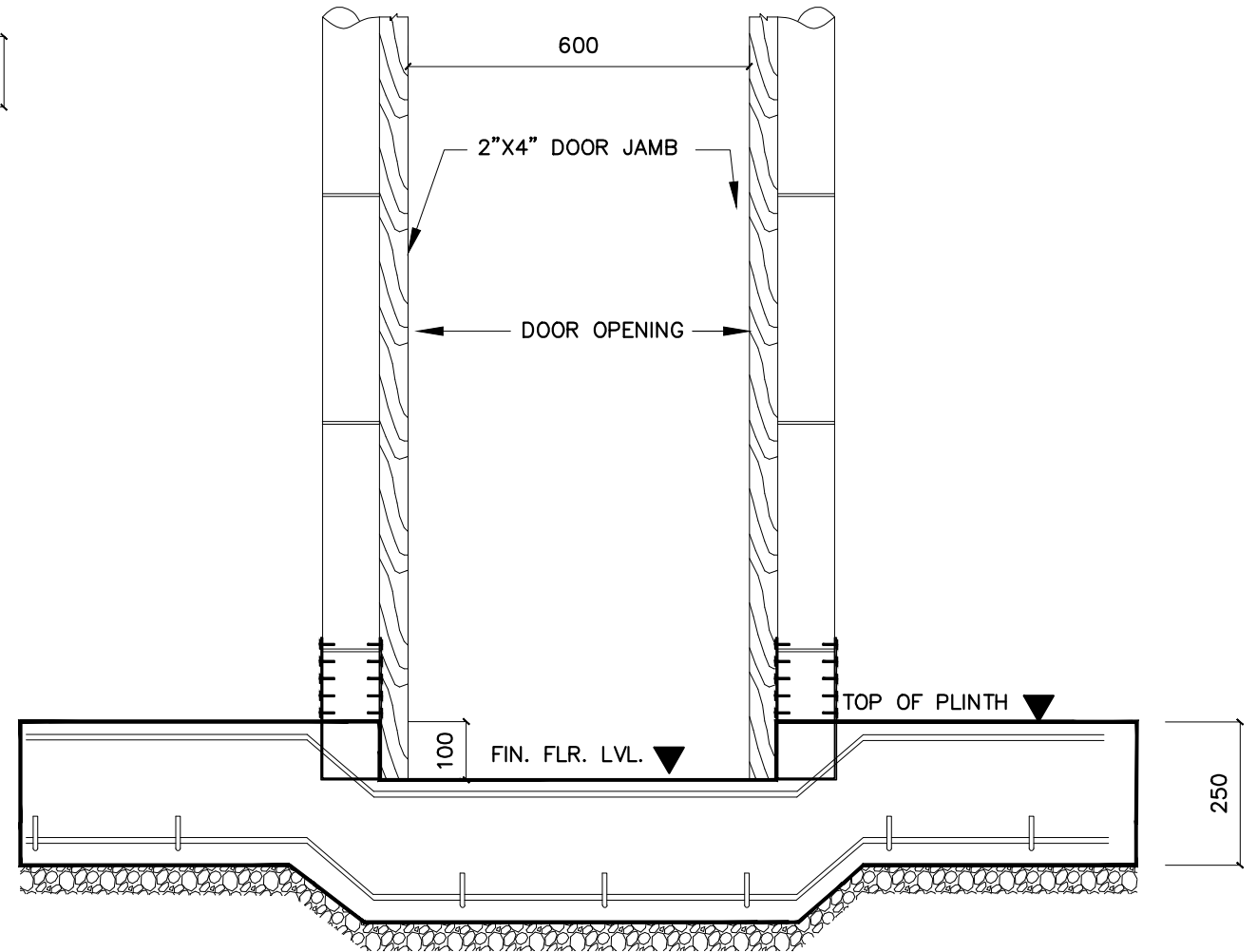
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	PRC NO. : 0004857      VALIDITY : 09/28/2027	P.T.R. NO. : 3519690      DATE : 01/02/2025	PLACE : TUGUEGARAO      TIN : 434-223-673	<b>LOCATION:</b>  BANGLADESH	<b>NO.</b> -	<b>REVISIONS:</b> -	<b>DATE:</b> -	<b>DESIGNED BY:</b> -	<b>DATE :</b> 08-JUNE-2026	<b>PROCESS :</b> -	<b>SHEET NO.:</b> -
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										<b>CHECKED BY:</b> L.F.L.	<b>SHEET NO.:</b> -
										<b>S</b>	<b>01H</b>



**1 PLINTH DETAIL #1**  
S-011 SCALE NTS



**2 PLINTH DETAIL #2**  
S-011 SCALE NTS



**3 PLINTH DETAIL #1**  
S-011 SCALE 1:50M



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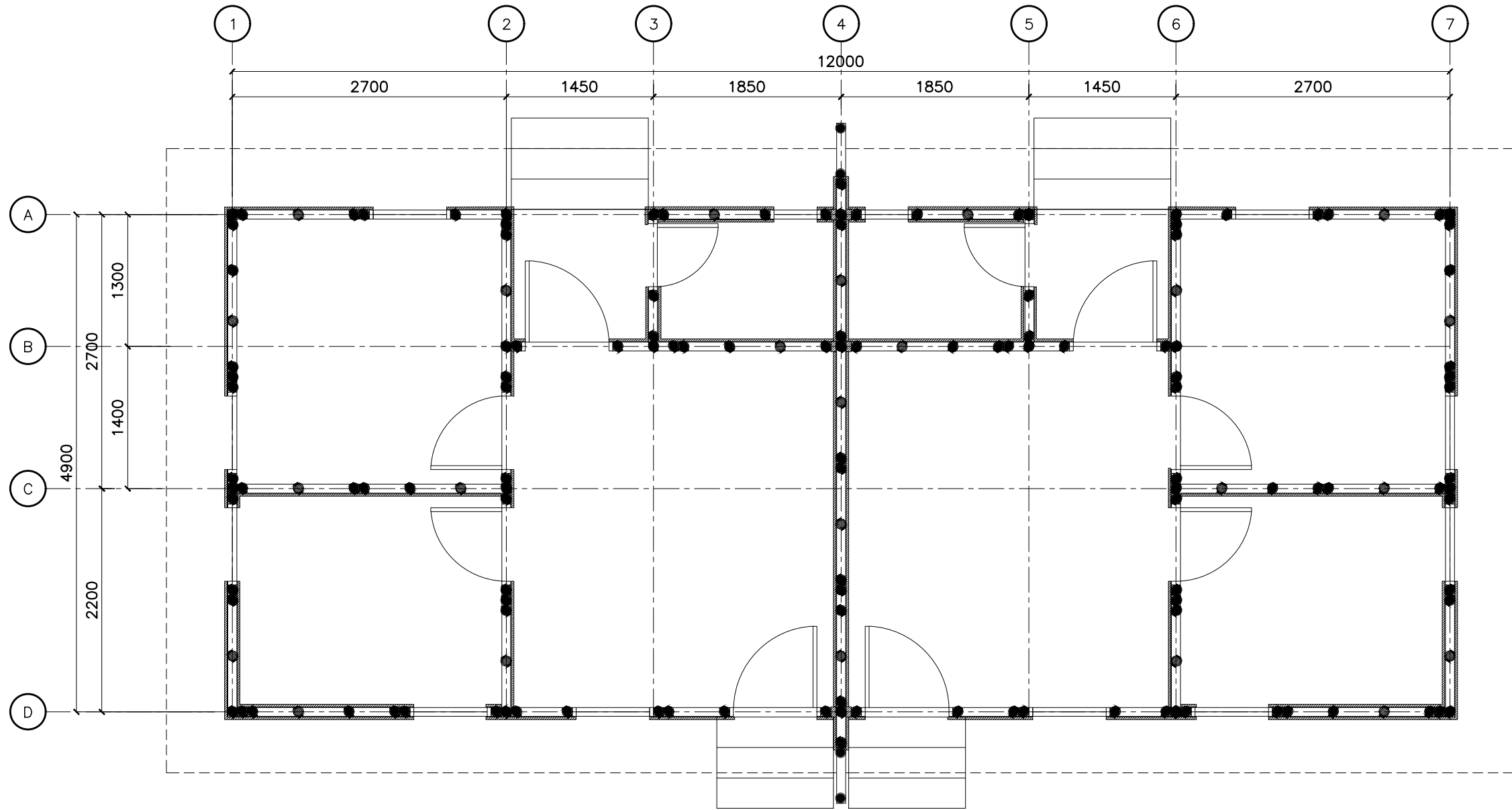
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PROJECT TITLE:  
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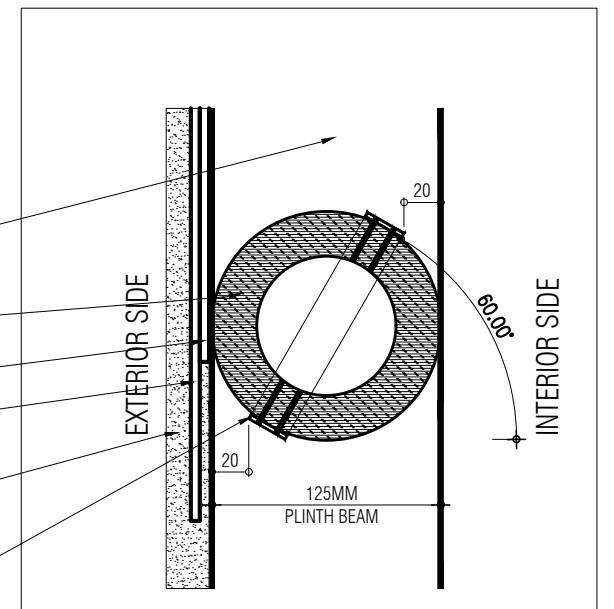
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			L.F.L

DATE : 08-JUNE-2026  
PROCESS :  
SHEET NO. :  
**S 011**



**1 STRAP LOCATION PLAN**  
S-01J SCALE 1:50M

- PLINTH BEAM
- HOR. REINFORCEMENT
- Ø80-125MM BAMBOO STUD
- FLATTENED BAMBOO
- 3MM X 25MM PREPAINTED FLAT BAR
- 25MM THK CEMENT PLASTER 1:3 MIX RATIO



U-PROFILE METAL STRAP FIXED TO Ø80-125MM BAMBOO STUD WITH #6 X 1" STAINLESS STEEL TEK SCREW

**STRAP PLAN SPOT DET.**



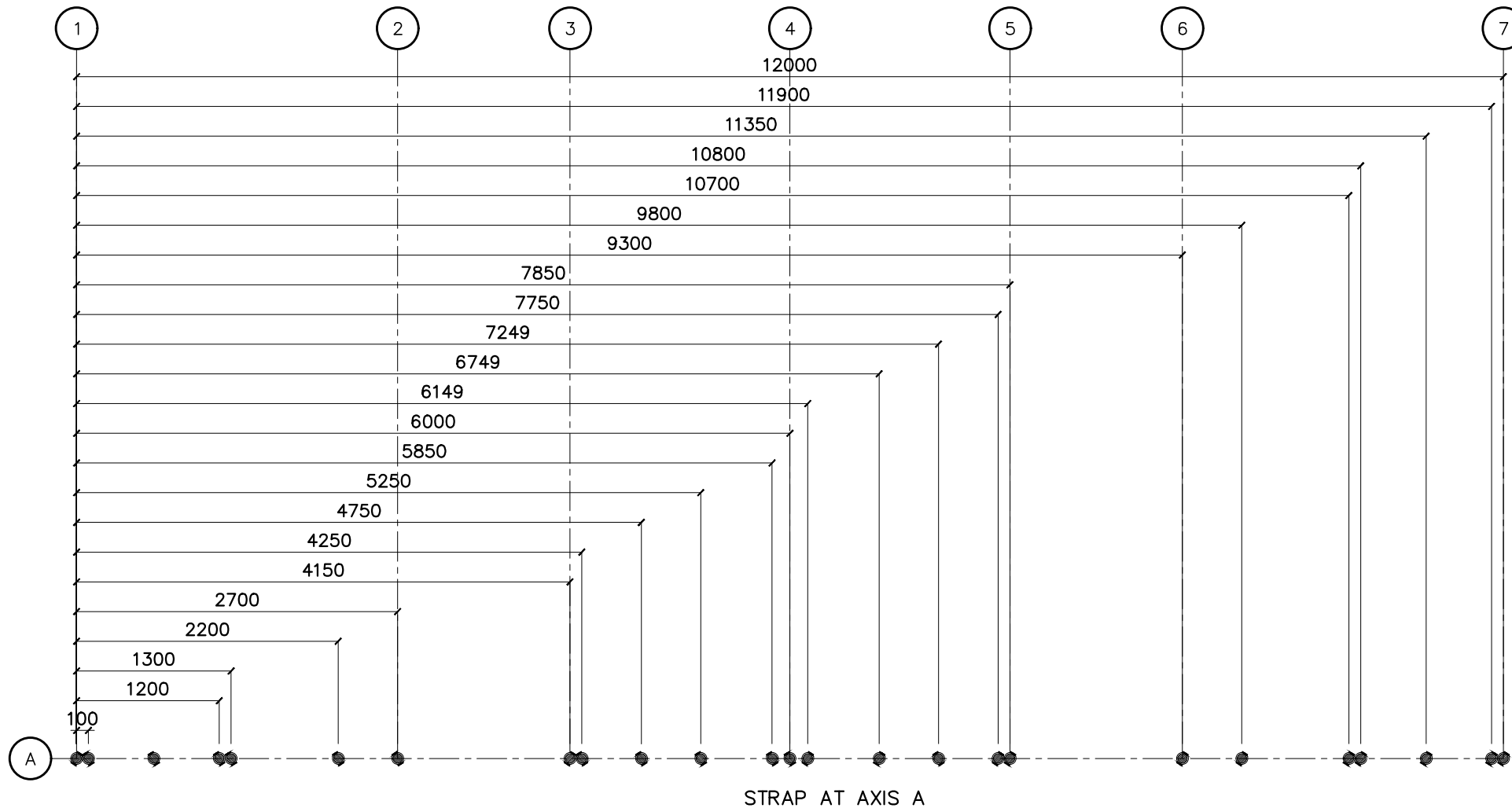
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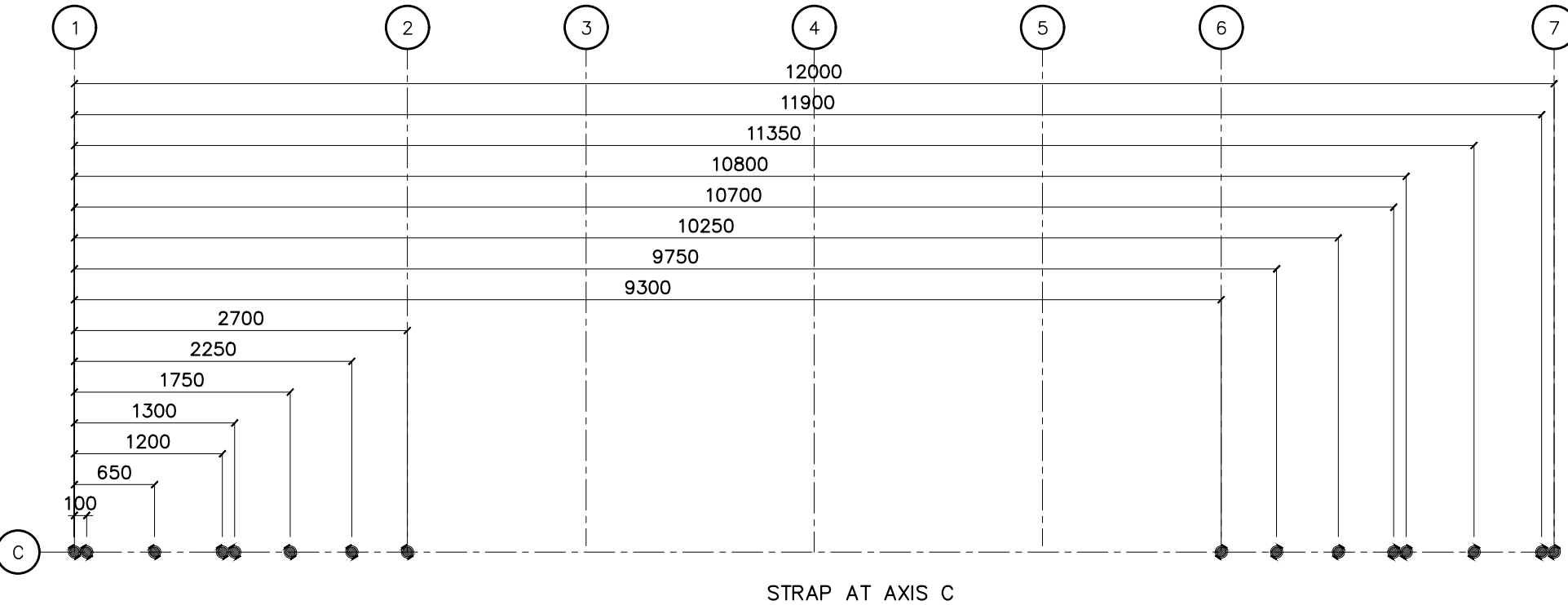
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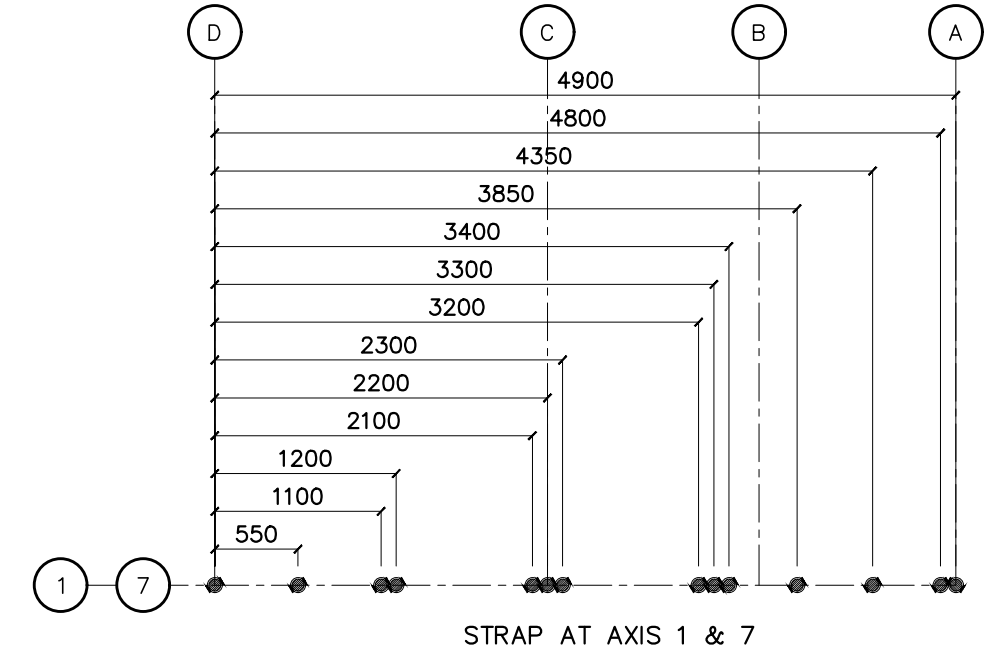
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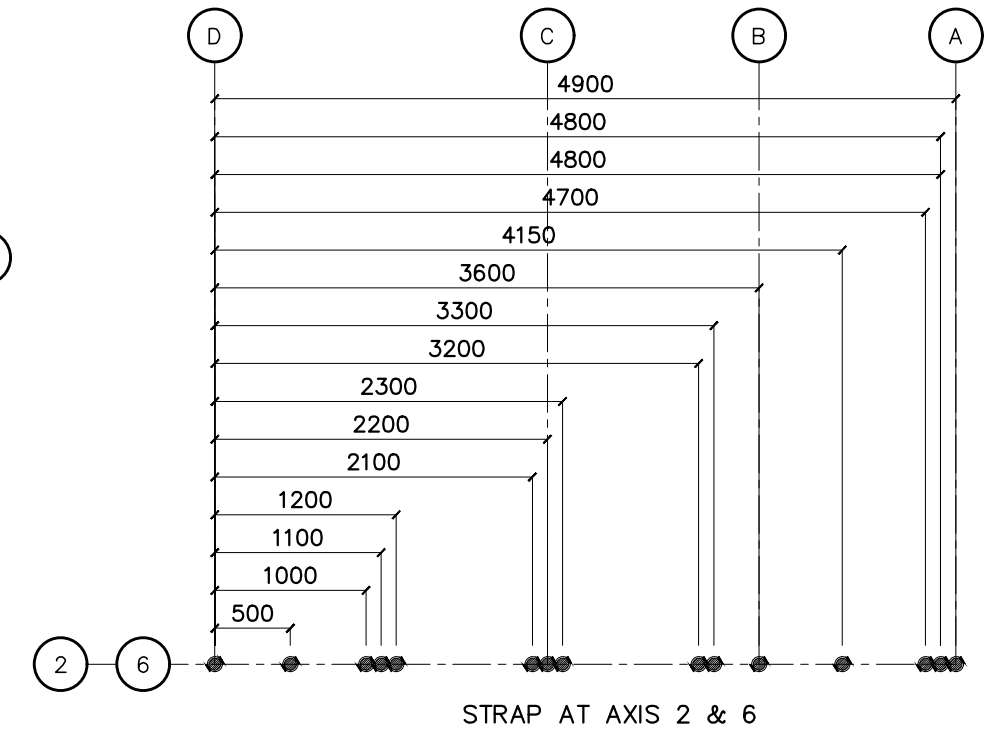
STRAP AT AXIS A



STRAP AT AXIS C



STRAP AT AXIS 1 & 7



STRAP AT AXIS 2 & 6

**1 STRAP LOCATION PER AXIS**  
S-01J SCALE 1:50M



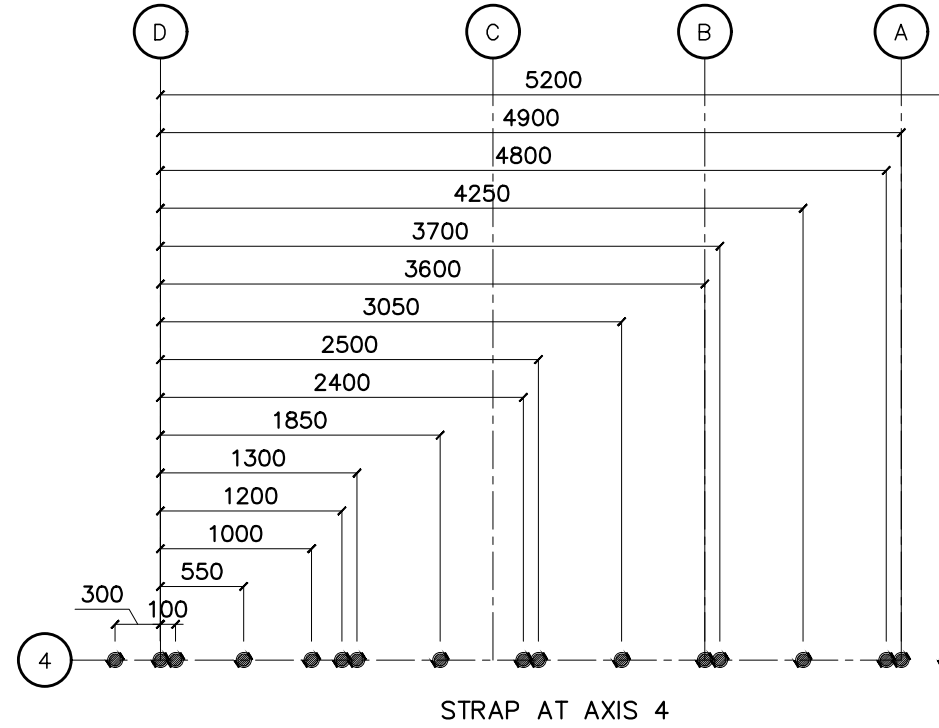
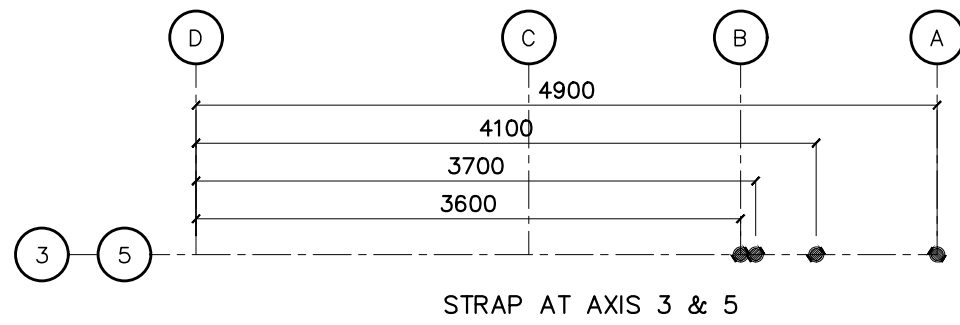
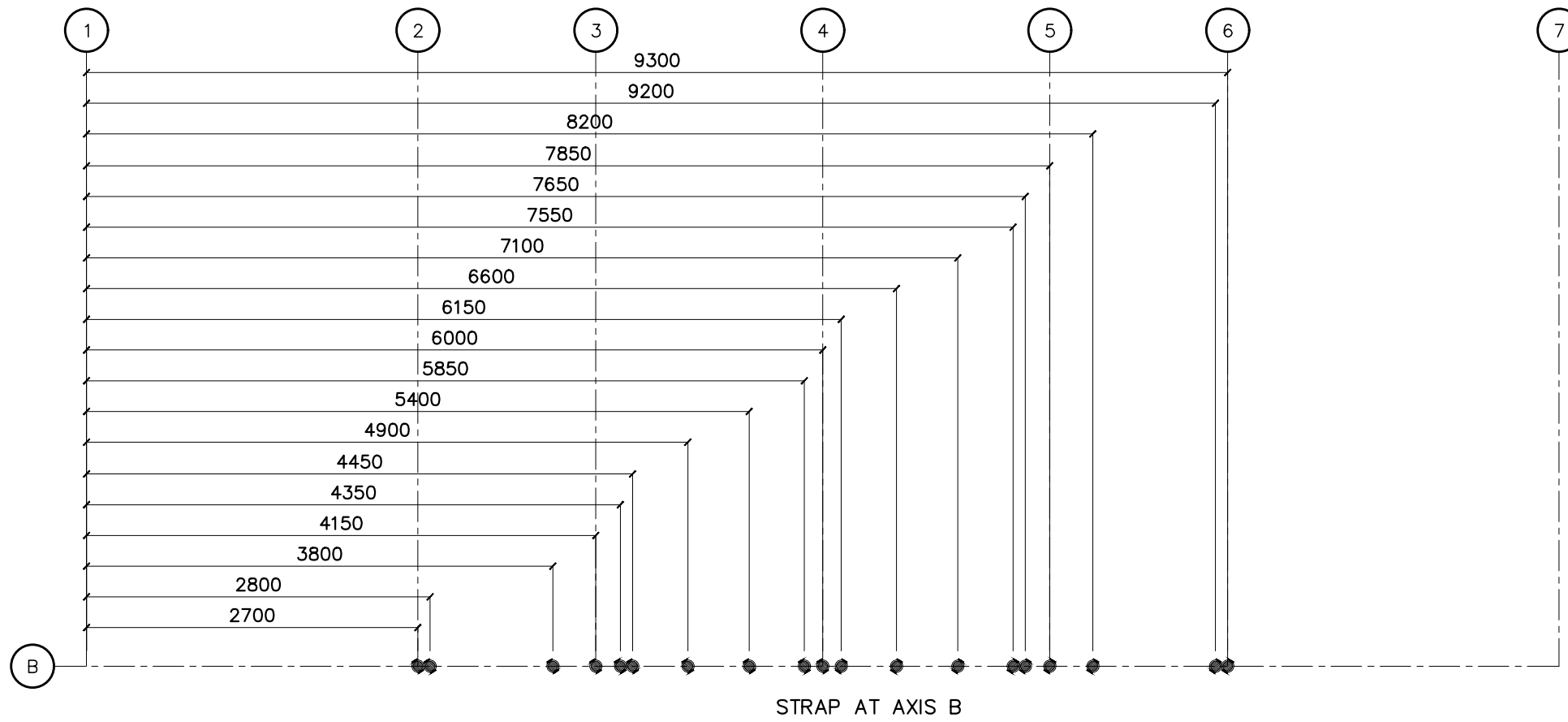
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NO.	REVISIONS:	DATE:	DESIGNED BY:	DATE : 08-JUNE-2026
-	-	-	-	PROCESS :
				SHEET NO.:
				<b>S 01K</b>



**1 STRAP LOCATION PER AXIS**  
S-01J SCALE 1:50M



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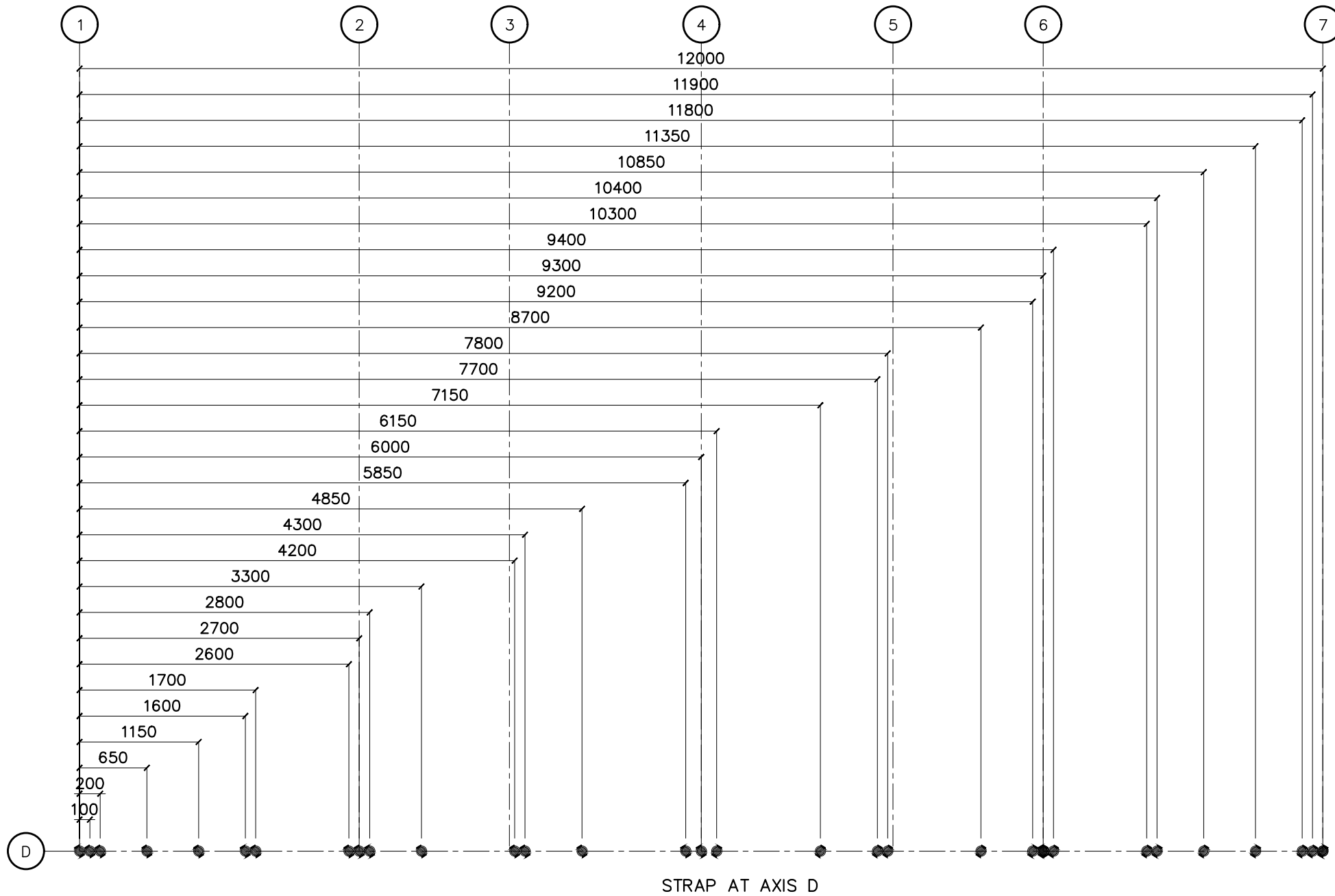
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**S 01L**



1 STRAP LOCATION PER AXIS  
S-01J SCALE 1:50M



**R.A. 9266, ARTICLE IV, SECTION 33:**  
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ARCHITECT:  
**VEMBEE A. GOHETIA**  
CIVIL/STRUCTURAL ENGINEER  
PRC NO. : 0004857 VALIDITY : 09/28/2027  
P.T.R. NO. : 3519690 DATE : 01/02/2025  
PLACE : TUQUEGARAO TIN : 434-223-673

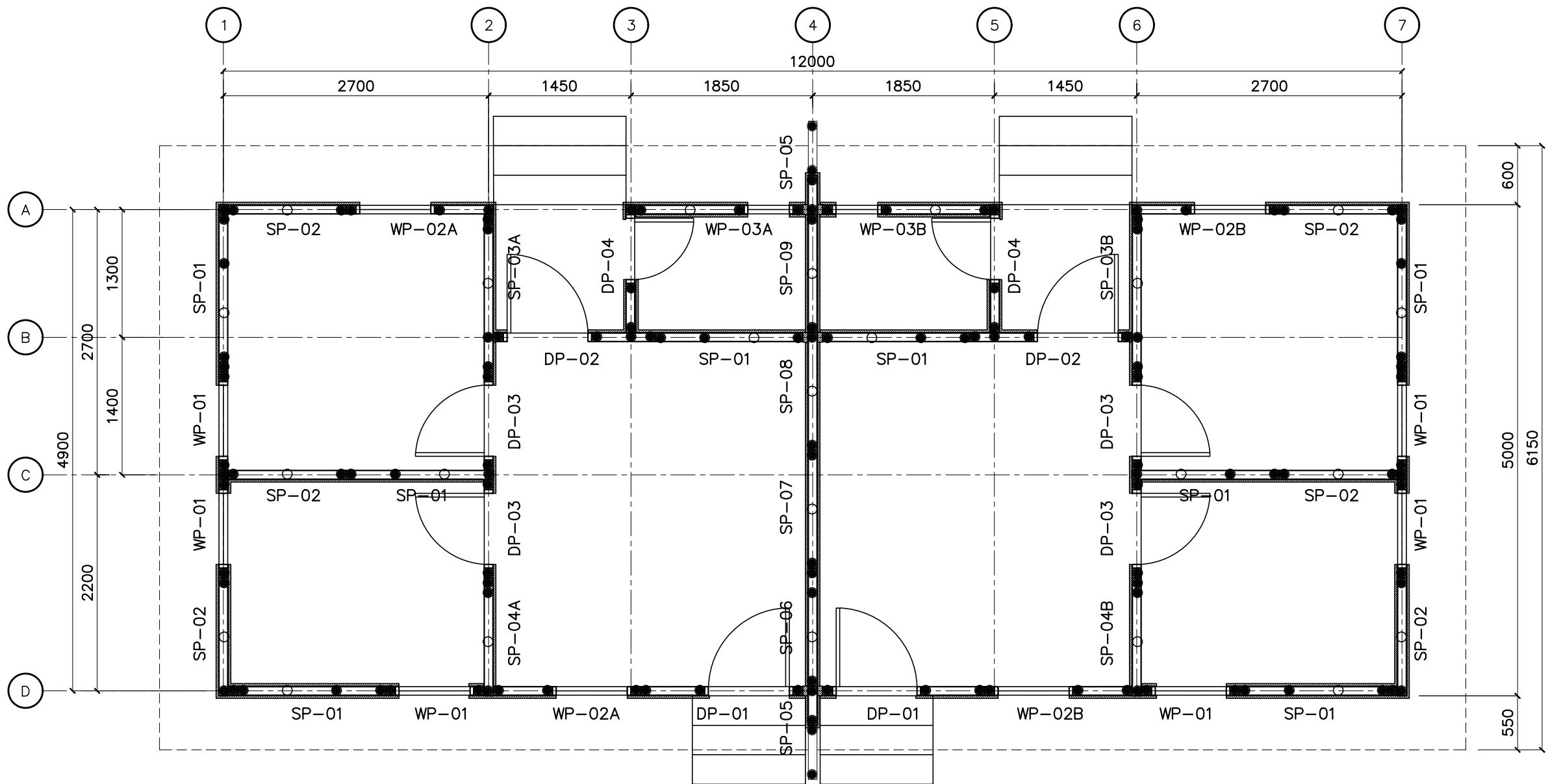
CLIENT/OWNER:

PROJECT TITLE:  
**PROPOSED ONE STOREY DUPLEX HOUSE**  
LOCATION:  
BANGLADESH

SHEET CONTENTS:

NO.	REVISIONS:	DATE:	DESIGNED BY:
-	-	-	-
			DRAFTED BY:
			E.M.D.
			CHECKED BY:
			L.F.L

DATE :	DESIGNED BY:	PROCESS :
08-JUNE-2026	-	SHEET NO.:
		<b>S 01M</b>



1
**WALL PANEL LOCATION PLAN**  
 S-02A SCALE 1:50M



**R.A. 9266, ARTICLE IV, SECTION 33:**  
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ARCHITECT:	
VEMBEE A. GOHETIA CIVIL/STRUCTURAL ENGINEER	
PRC NO. : 0004857	VALIDITY : 09/28/2027
P.T.R. NO. : 3519690	DATE : 01/02/2025
PLACE : TUQUEGARAO	TIN : 434-223-673

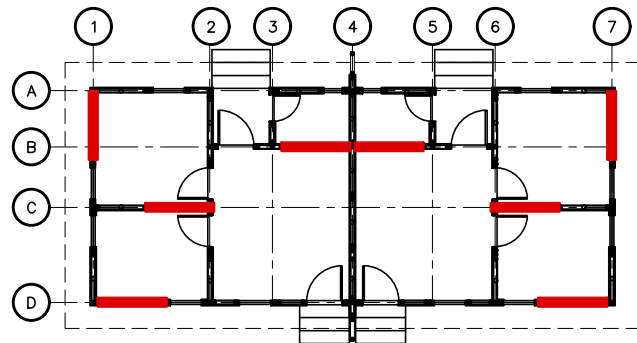
CLIENT/OWNER:

PROJECT TITLE:	PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:	BANGLADESH

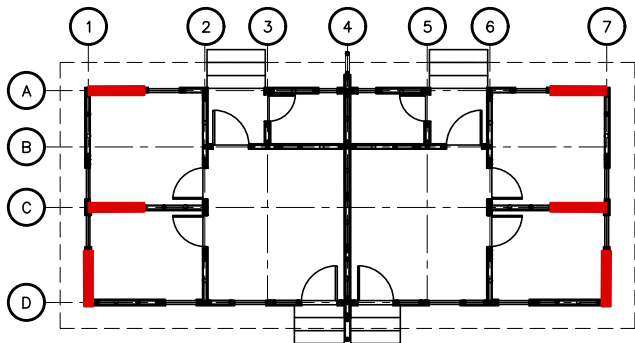
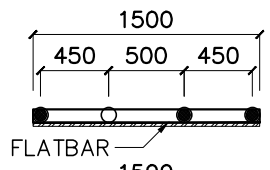
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			E.M.D.
			CHECKED BY:
			L.F.L

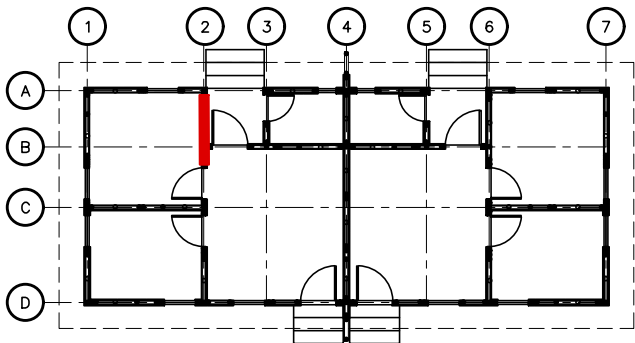
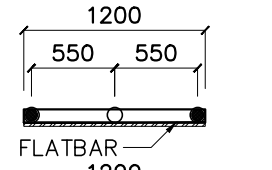
DATE : 08-JUNE-2026
PROCESS :
SHEET NO.:
S 02A



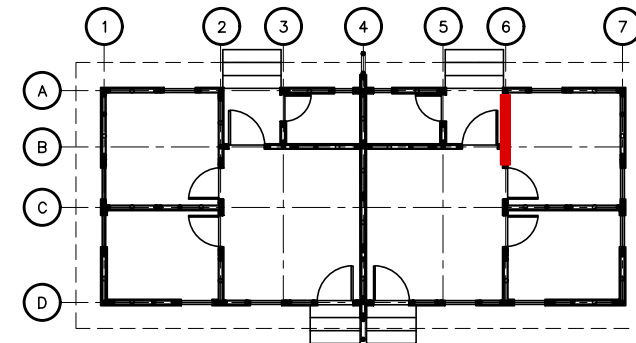
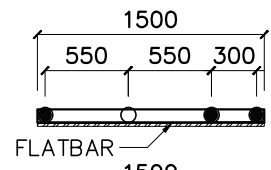
SP01 LOCATION KEY PLAN



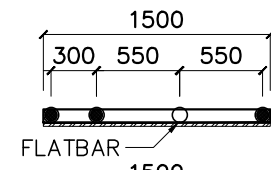
SP02 LOCATION KEY PLAN



SP03A LOCATION KEY PLAN



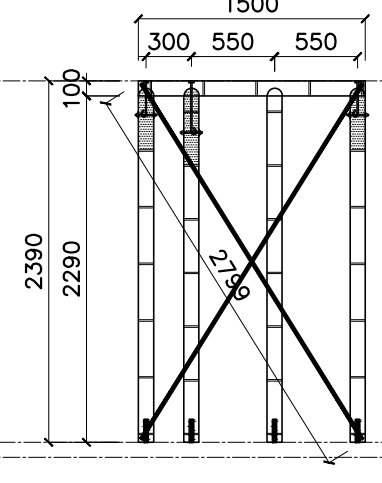
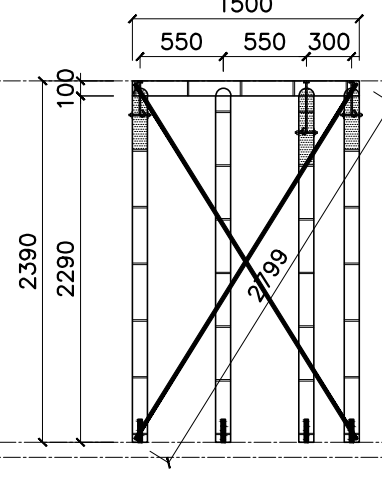
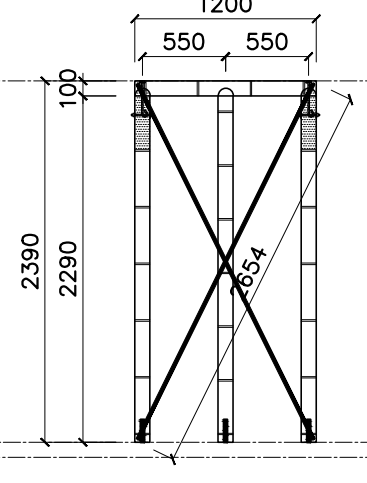
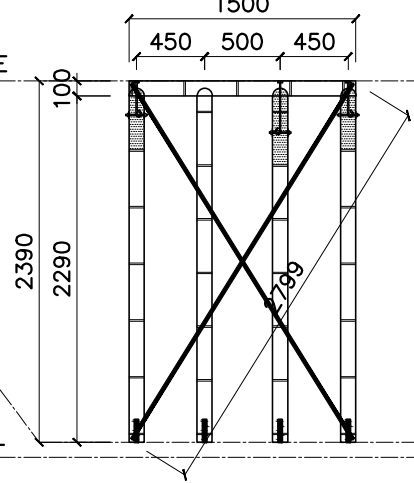
SP03B LOCATION KEY PLAN



TOP OF WALL LINE  
ELEV= ±3.24M

TOP OF CONCRETE PLINTH  
ELEV= ±0.85M

INTERIOR UNIT FFL  
ELEV= ±0.75M



NAME	SP01
QTY	EIGHT (8) SET/S

NAME	SP02
QTY	SIX (6) SET/S

NAME	SP03A
QTY	ONE (1) SET

NAME	SP03B
QTY	ONE (1) SET

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1500 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	2 PC
T2 BAMBOO STUD	100MM	2340 MM	2 PC
FLAT BAR	1"X1/8"	2799 MM	2 PC
THREADED ROD	3/8" THK.	150 MM	8 PC
NUTS	3/8" THK.	-	16 PC
WASHER	3/8" THK.	-	16 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1200 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	2 PC
T2 BAMBOO STUD	100MM	2340 MM	1 PC
FLAT BAR	1"X1/8"	2654 MM	2 PC
THREADED ROD	3/8" THK.	150 MM	5 PC
NUTS	3/8" THK.	-	10 PC
WASHER	3/8" THK.	-	10 PC
THREADED J-BOLT	1/2" THK.	300 MM	2 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	2 PC
NUTS	1/2" THK.	-	6 PC
WASHER	1/2" THK.	-	6 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1500 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	2 PC
T2 BAMBOO STUD	100MM	2340 MM	2 PC
FLAT BAR	1"X1/8"	2799 MM	2 PC
THREADED ROD	3/8" THK.	150 MM	8 PC
NUTS	3/8" THK.	-	16 PC
WASHER	3/8" THK.	-	16 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1500 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	2 PC
T2 BAMBOO STUD	100MM	2340 MM	2 PC
FLAT BAR	1"X1/8"	2799 MM	2 PC
THREADED ROD	3/8" THK.	150 MM	8 PC
NUTS	3/8" THK.	-	16 PC
WASHER	3/8" THK.	-	16 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

**1 SCHEDULE OF PANELS**  
S-02B SCALE 1:50M

NOTE:  
CROSS CHECK EACH PANELS WITH  
S-02A AND S-03 SHEETS



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ARCHITECT:	VEMBEE A. GOHETIA CIVIL/STRUCTURAL ENGINEER
CLIENT/OWNER:	
PROJECT TITLE:	PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:	BANGLADESH
PRC NO. :	0004857
VALIDITY :	09/28/2027
P.T.R. NO. :	3519690
DATE :	01/02/2025
PLACE :	TUGUEGARAO
TIN :	434-223-673

NO.	REVISIONS:	DATE:	DESIGNED BY:	DATE : 08-JUNE-2026
-	-	-	-	PROCESS :
			DRAFTED BY:	SHEET NO.:
			E.M.D.	S 02B
			CHECKED BY:	
			L.F.L	

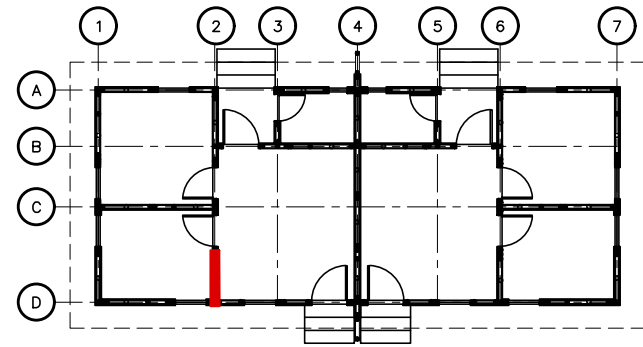
SHEET CONTENTS:	

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			E.M.D.	S 02B
			CHECKED BY:	
			L.F.L	

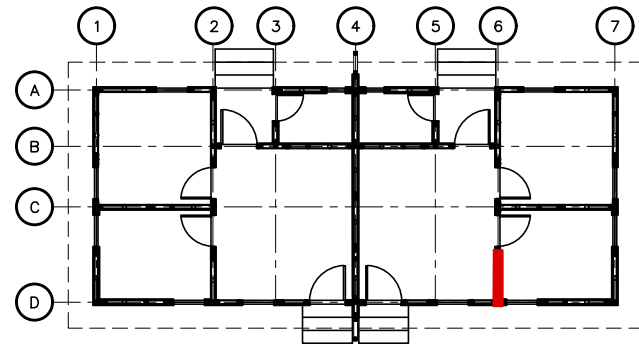
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NO.	REVISIONS:	DATE:	DESIGNED BY:	DATE : 08-JUNE-2026
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			L.F.L	

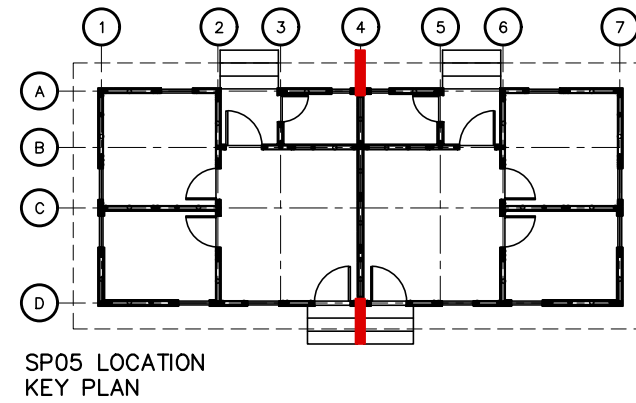
NOTE: CROSS CHECK EACH PANELS WITH S-02A AND S-03 SHEETS



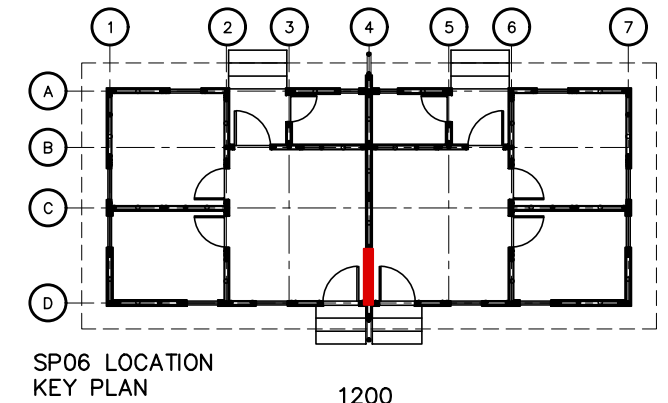
SP04A LOCATION KEY PLAN



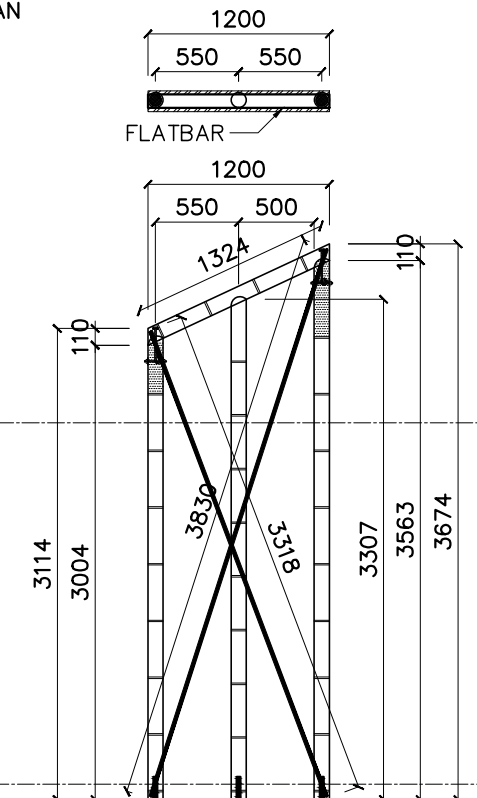
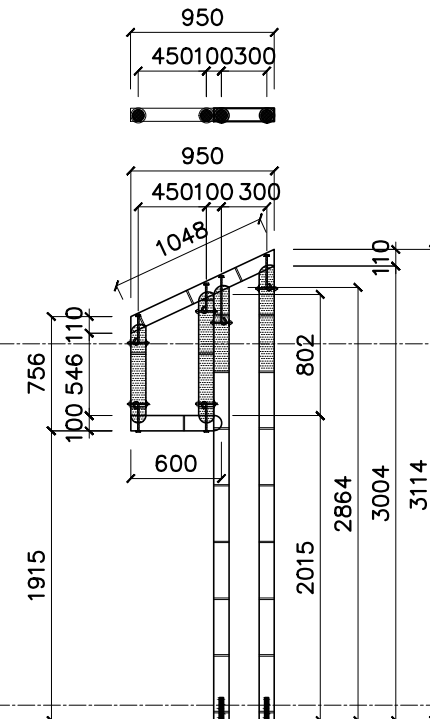
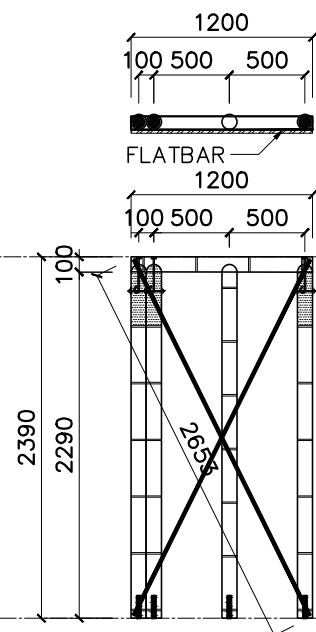
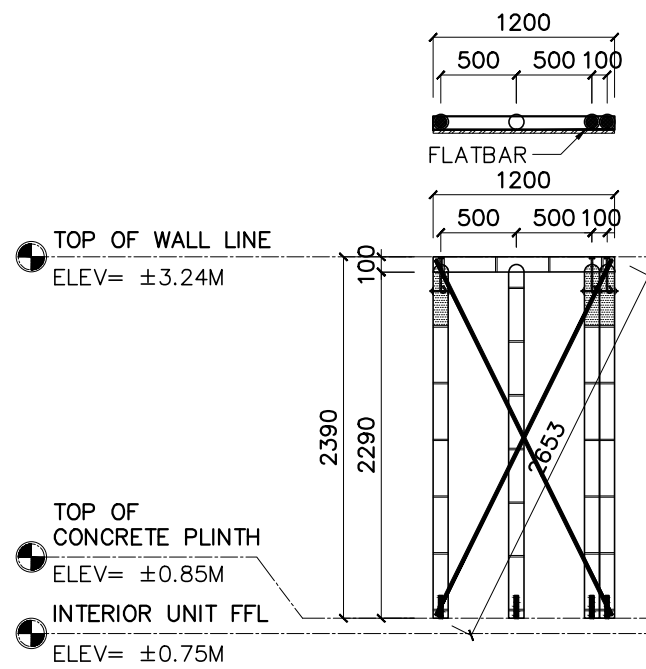
SP04B LOCATION KEY PLAN



SP05 LOCATION KEY PLAN



SP06 LOCATION KEY PLAN



NAME	SP04A
QTY	ONE (1) SET

NAME	SP04B
QTY	ONE (1) SET

NAME	SP05
QTY	TWO (2) SET/S

NAME	SP06
QTY	ONE (1) SET

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1200 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
T2 BAMBOO STUD	100MM	2340 MM	1 PC
FLAT BAR	1"X1/8"	2653 MM	2 PC
THREADED ROD	3/8" THK.	150 MM	5 PC
NUTS	3/8" THK.	-	10 PC
WASHER	3/8" THK.	-	10 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1200 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
T2 BAMBOO STUD	100MM	2340 MM	1 PC
FLAT BAR	1"X1/8"	2653 MM	2 PC
THREADED ROD	3/8" THK.	150 MM	5 PC
NUTS	3/8" THK.	-	10 PC
WASHER	3/8" THK.	-	10 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1048 MM	1 PC
BOT. BAMBOO STUD	100MM	600 MM	1 PC
T1 BAMBOO STUD	100MM	2864 MM	1 PC
T1 BAMBOO STUD	100MM	3004 MM	1 PC
BAMBOO STUD	100MM	802 MM	1 PC
BAMBOO STUD	100MM	546 MM	1 PC
THREADED J-BOLT	1/2" THK.	300 MM	6 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	6 PC
NUTS	1/2" THK.	-	18 PC
WASHER	1/2" THK.	-	18 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	2"X4"	1324 MM	1 PC
T1 BAMBOO STUD	100MM	3004 MM	1 PC
T1 BAMBOO STUD	100MM	3563 MM	1 PC
T2 BAMBOO STUD	100MM	3307 MM	1 PC
FLAT BAR	1"X1/8"	3830 MM	1 PC
FLAT BAR	1"X1/8"	3318 MM	1 PC
THREADED ROD	3/8" THK.	150 MM	5 PC
NUTS	3/8" THK.	-	10 PC
WASHER	3/8" THK.	-	10 PC
THREADED J-BOLT	1/2" THK.	300 MM	2 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	2 PC
NUTS	1/2" THK.	-	6 PC
WASHER	1/2" THK.	-	6 PC



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ARCHITECT:  
**VEMBEE A. GOHETIA**  
CIVIL/STRUCTURAL ENGINEER  
PRC NO. : 0004857 VALIDITY : 09/28/2027  
P.T.R. NO. : 3519690 DATE : 01/02/2025  
PLACE : TUGUEGARAO TIN : 434-223-673

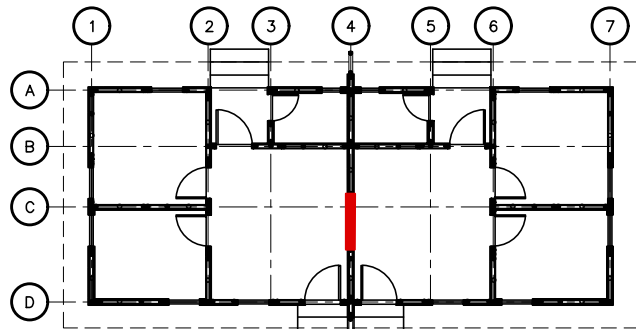
CLIENT/OWNER:

PROJECT TITLE:  
**PROPOSED ONE STOREY DUPLEX HOUSE**  
LOCATION:  
BANGLADESH

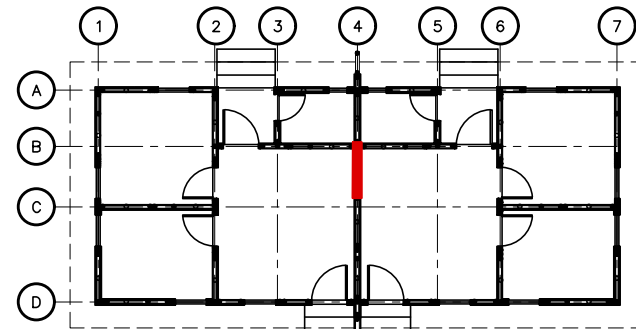
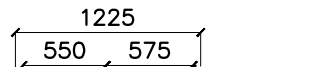
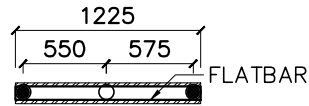
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DATE:  
DESIGNED BY:  
DRAFTED BY:  
E.M.D.  
CHECKED BY:  
L.F.L.

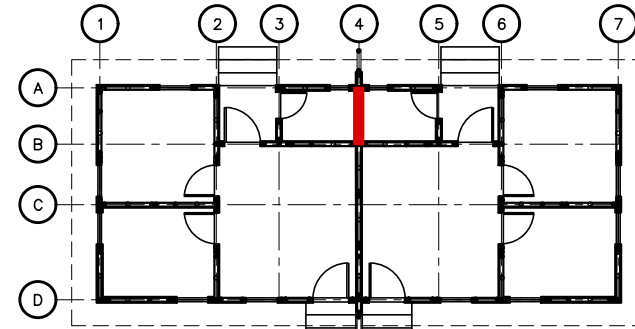
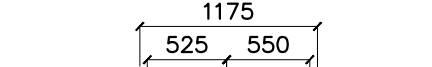
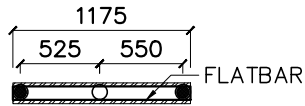
DATE : 08-JUNE-2026  
PROCESS :  
SHEET NO. :  
**S 02C**



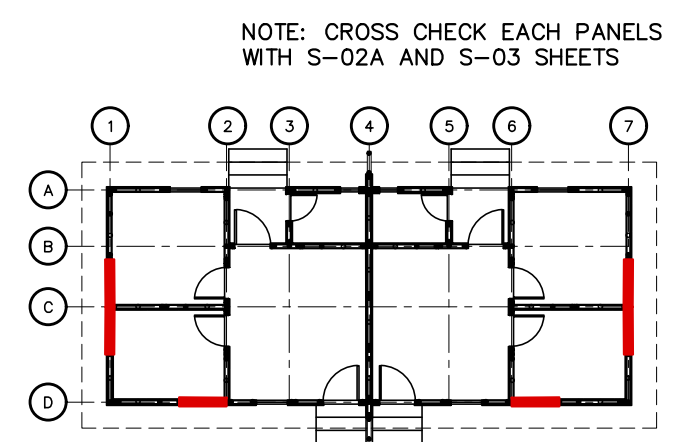
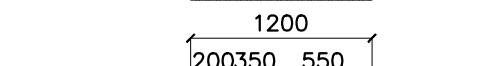
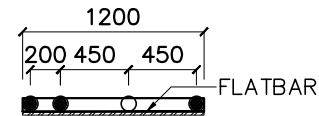
SP07 LOCATION KEY PLAN



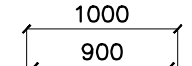
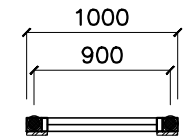
SP08 LOCATION KEY PLAN



SP09 LOCATION KEY PLAN



WP01 LOCATION KEY PLAN



TOP OF WALL LINE  
ELEV= ±3.24M

TOP OF CONCRETE PLINTH  
ELEV= ±0.85M

INTERIOR UNIT FFL  
ELEV= ±0.75M

NAME	SP07
QTY	ONE (1) SET

NAME	SP08
QTY	ONE (1) SET

NAME	SP09
QTY	ONE (1) SET

NAME	WP01
QTY	SIX (6) SET/S

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	2"X4"	1352 MM	1 PC
T1 BAMBOO STUD	100MM	3563 MM	1 PC
T1 BAMBOO STUD	100MM	4135 MM	1 PC
T2 BAMBOO STUD	100MM	3866 MM	1 PC
FLAT BAR	1"X1/8"	4384 MM	1 PC
FLAT BAR	1"X1/8"	3855 MM	1 PC
THREADED ROD	3/8" THK.	150 MM	5 PC
NUTS	3/8" THK.	-	10 PC
WASHER	3/8" THK.	-	10 PC
THREADED J-BOLT	1/2" THK.	300 MM	2 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	2 PC
NUTS	1/2" THK.	-	6 PC
WASHER	1/2" THK.	-	6 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	2"X4"	1300 MM	1 PC
T1 BAMBOO STUD	100MM	4135 MM	1 PC
T1 BAMBOO STUD	100MM	3578 MM	1 PC
T2 BAMBOO STUD	100MM	3886 MM	1 PC
FLAT BAR	1"X1/8"	4371 MM	1 PC
FLAT BAR	1"X1/8"	3854 MM	1 PC
THREADED ROD	3/8" THK.	150 MM	5 PC
NUTS	3/8" THK.	-	10 PC
WASHER	3/8" THK.	-	10 PC
THREADED J-BOLT	1/2" THK.	300 MM	2 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	2 PC
NUTS	1/2" THK.	-	6 PC
WASHER	1/2" THK.	-	6 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	2"X4"	1328 MM	1 PC
T1 BAMBOO STUD	100MM	3578 MM	3 PC
T1 BAMBOO STUD	100MM	3010 MM	3 PC
T2 BAMBOO STUD	100MM	3484 MM	1 PC
T2 BAMBOO STUD	100MM	3318 MM	1 PC
FLAT BAR	1"X1/8"	3325 MM	1 PC
FLAT BAR	1"X1/8"	3845 MM	1 PC
THREADED ROD	3/8" THK.	150 MM	5 PC
NUTS	3/8" THK.	-	10 PC
WASHER	3/8" THK.	-	10 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1000 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	2 PC
BAMBOO STUD	100MM	732 MM	1 PC
BAMBOO STUD	100MM	252 MM	1 PC
WINDOW JAMB	2"X4"	900 MM	2 PC
WINDOW JAMB	2"X4"	1230 MM	2 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
WASHER	3/8" THK.	-	8 PC
THREADED J-BOLT	1/2" THK.	300 MM	2 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	2 PC
NUTS	1/2" THK.	-	6 PC
WASHER	1/2" THK.	-	6 PC



R.A. 9266, ARTICLE IV, SECTION 33:  
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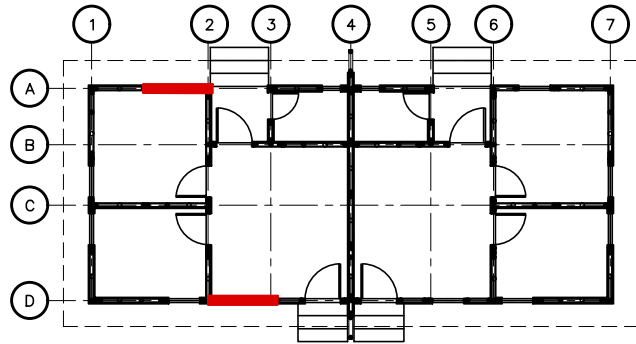
ARCHITECT:	CLIENT/OWNER:
VEMBEE A. GOHETIA CIVIL/STRUCTURAL ENGINEER	
PRC NO. : 0004857	VALIDITY : 09/28/2027
P.T.R. NO. : 3519690	DATE : 01/02/2025
PLACE : TUGUEGARAO	TIN : 434-223-673

PROJECT TITLE:	SHEET CONTENTS:
PROPOSED ONE STOREY DUPLEX HOUSE	
LOCATION:	
BANGLADESH	

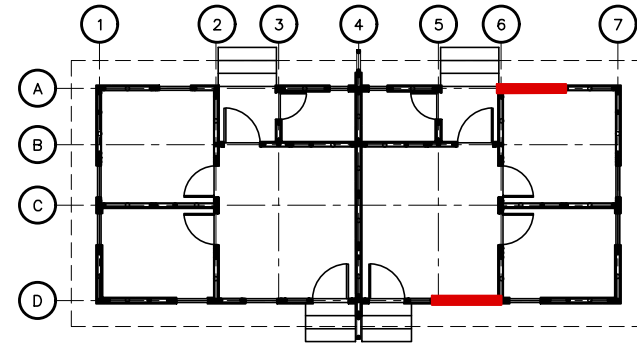
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			E.M.D.	
			CHECKED BY:	
			L.F.L	

S 02D

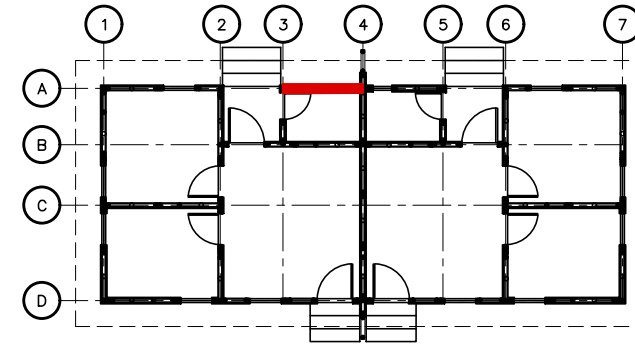
NOTE: CROSS CHECK EACH PANELS WITH S-02A AND S-03 SHEETS



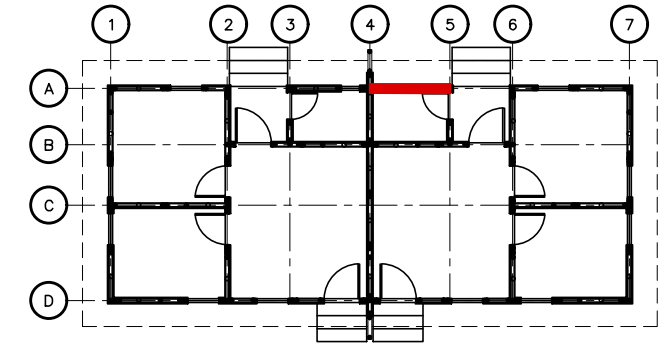
WP02A LOCATION KEY PLAN



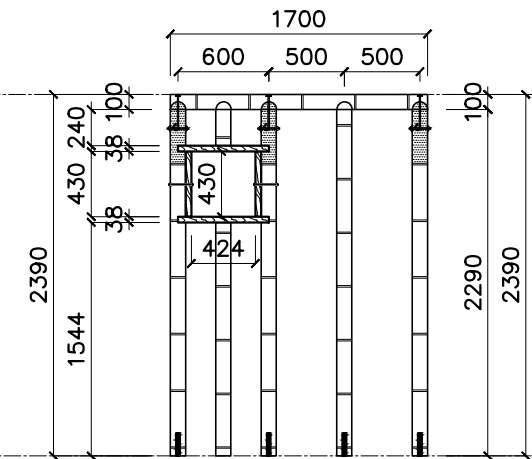
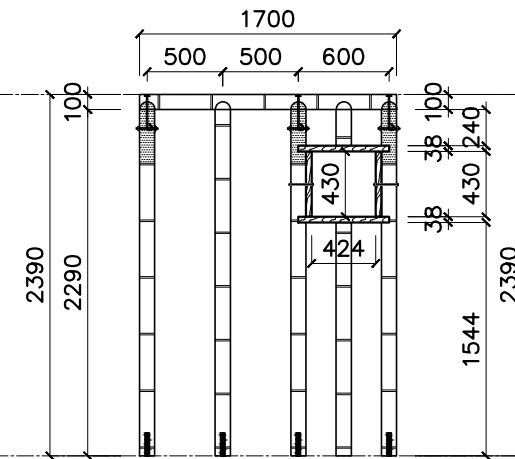
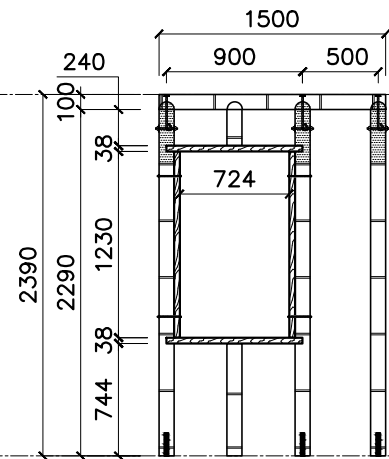
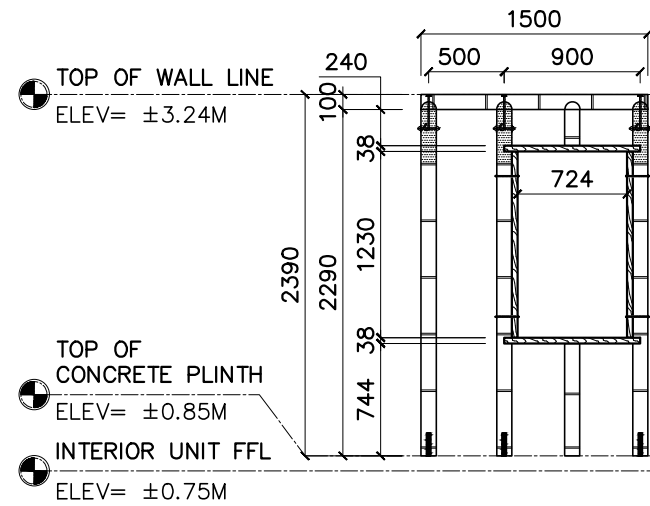
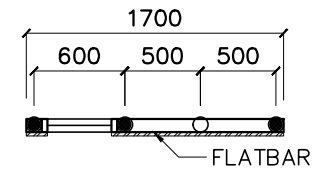
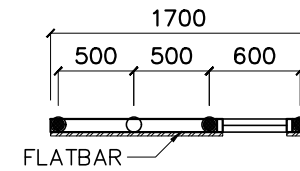
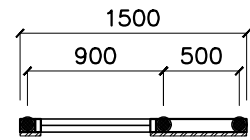
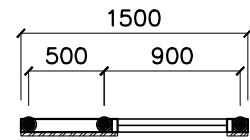
WP02B LOCATION KEY PLAN



WP03A LOCATION KEY PLAN



WP03B LOCATION KEY PLAN



NAME	WP02A
QTY	TWO (2) SET/S

NAME	WP02B
QTY	TWO (2) SET/S

NAME	WP03A
QTY	ONE (1) SET

NAME	WP03B
QTY	ONE (1) SET

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1500 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
BAMBOO STUD	100MM	732 MM	1 PC
BAMBOO STUD	100MM	252 MM	1 PC
WINDOW JAMB	2"x4"	900 MM	2 PC
WINDOW JAMB	2"x4"	1230 MM	2 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
WASHER	3/8" THK.	-	8 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1500 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
BAMBOO STUD	100MM	732 MM	1 PC
BAMBOO STUD	100MM	252 MM	1 PC
WINDOW JAMB	2"x4"	900 MM	2 PC
WINDOW JAMB	2"x4"	1230 MM	2 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
WASHER	3/8" THK.	-	8 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1700 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
T2 BAMBOO STUD	100MM	2340 MM	1 PC
BAMBOO STUD	100MM	1532 MM	1 PC
BAMBOO STUD	100MM	252 MM	1 PC
WINDOW JAMB	2"x4"	600 MM	2 PC
WINDOW JAMB	2"x4"	430 MM	2 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	2 PC
NUTS	3/8" THK.	-	4 PC
WASHER	3/8" THK.	-	4 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1700 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
T2 BAMBOO STUD	100MM	2340 MM	1 PC
BAMBOO STUD	100MM	1532 MM	1 PC
BAMBOO STUD	100MM	252 MM	1 PC
WINDOW JAMB	2"x4"	600 MM	2 PC
WINDOW JAMB	2"x4"	430 MM	2 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	2 PC
NUTS	3/8" THK.	-	4 PC
WASHER	3/8" THK.	-	4 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC



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ARCHITECT:  
**VEEMBEE A. GOHETIA**  
 CIVIL/STRUCTURAL ENGINEER  
 PRC NO. : 0004857 VALIDITY : 09/28/2027  
 P.T.R. NO. : 3519690 DATE : 01/02/2025  
 PLACE : TUGUEGARAO TIN : 434-223-673

CLIENT/OWNER:

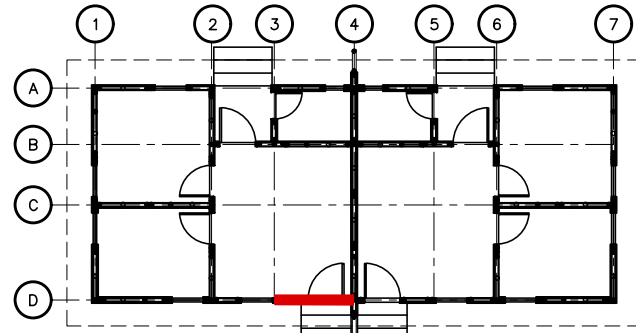
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**PROPOSED ONE STOREY DUPLEX HOUSE**  
 LOCATION:  
 BANGLADESH

SHEET CONTENTS:

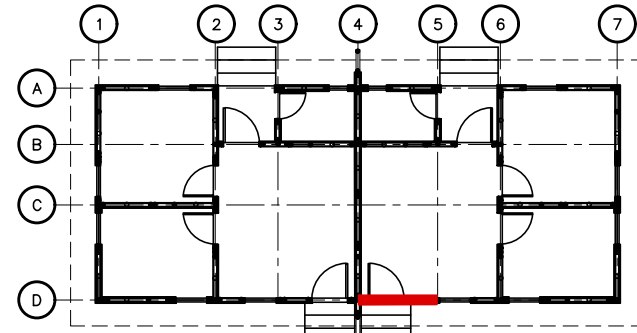
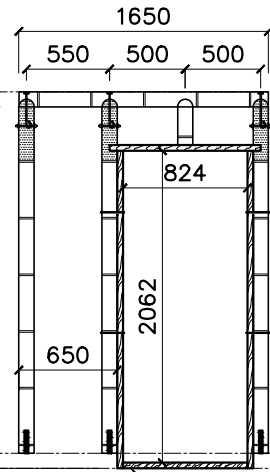
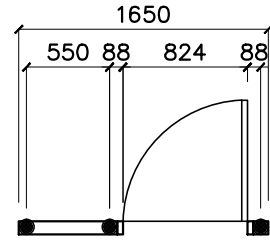
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 CHECKED BY: -  
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DATE : 08-JUNE-2026  
 PROCESS :  
 SHEET NO. :  
**S 02E**

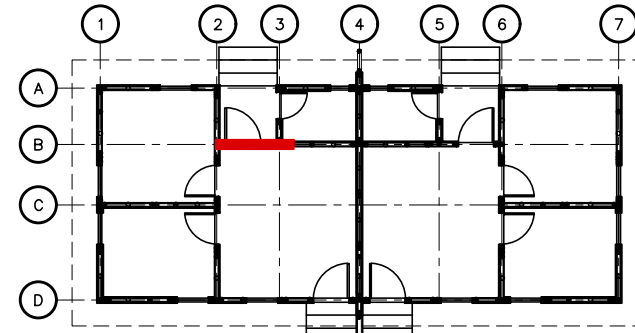
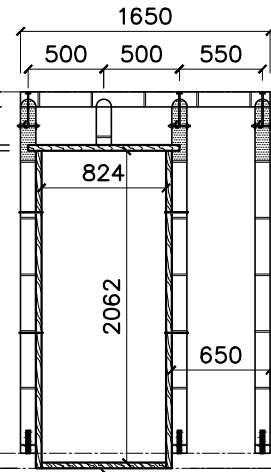
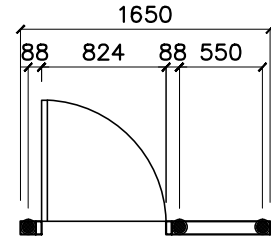
NOTE: CROSS CHECK EACH PANELS WITH S-02A AND S-03 SHEETS



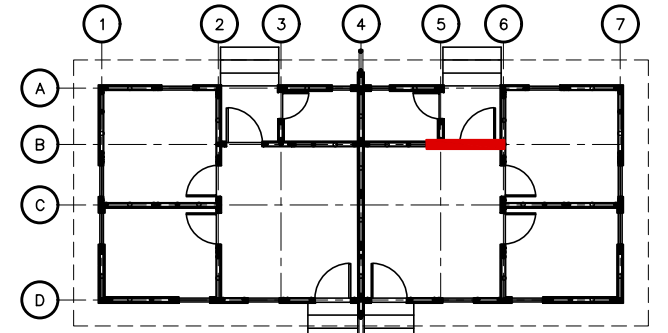
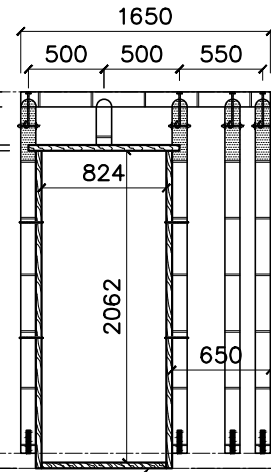
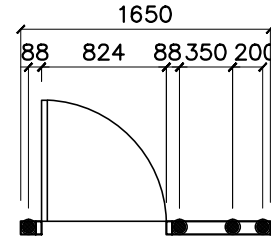
DP01A LOCATION KEY PLAN



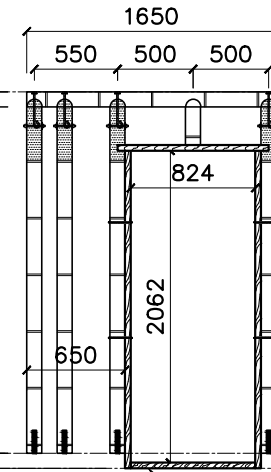
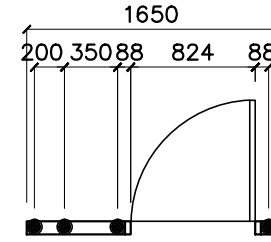
DP01B LOCATION KEY PLAN



DP02A LOCATION KEY PLAN



DP02B LOCATION KEY PLAN



TOP OF WALL LINE  
ELEV= ±3.24M

TOP OF CONCRETE PLINTH  
ELEV= ±0.85M

INTERIOR UNIT FFL  
ELEV= ±0.75M

TO BE REMOVED ON SITE

TO BE REMOVED ON SITE

TO BE REMOVED ON SITE

TO BE REMOVED ON SITE

NAME	DP01A
QTY	ONE (1) SET

NAME	DP01B
QTY	ONE (1) SET

NAME	DP02A
QTY	ONE (1) SET

NAME	DP02B
QTY	ONE (1) SET

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1650 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
BAMBOO STUD	100MM	252 MM	1 PC
DOOR JAMB	2"x4"	1000 MM	1 PC
DOOR JAMB	2"x4"	2100 MM	2 PC
TEMP. TIMBER PLATE	2"x4"	824 MM	1 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
WASHER	3/8" THK.	-	8 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1650 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
BAMBOO STUD	100MM	252 MM	1 PC
DOOR JAMB	2"x4"	1000 MM	1 PC
DOOR JAMB	2"x4"	2100 MM	2 PC
TEMP. TIMBER PLATE	2"x4"	824 MM	1 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
WASHER	3/8" THK.	-	8 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1650 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
BAMBOO STUD	100MM	252 MM	1 PC
DOOR JAMB	2"x4"	1000 MM	1 PC
DOOR JAMB	2"x4"	2100 MM	2 PC
TEMP. TIMBER PLATE	2"x4"	824 MM	1 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
WASHER	3/8" THK.	-	8 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1650 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
BAMBOO STUD	100MM	252 MM	1 PC
DOOR JAMB	2"x4"	1000 MM	1 PC
DOOR JAMB	2"x4"	2100 MM	2 PC
TEMP. TIMBER PLATE	2"x4"	824 MM	1 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
WASHER	3/8" THK.	-	8 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
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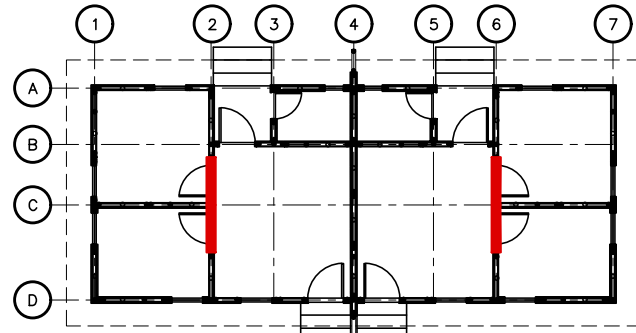
ARCHITECT:  
**VEMBEE A. GOHETIA**  
CIVIL/STRUCTURAL ENGINEER  
PRC NO. : 0004857 VALIDITY : 09/28/2027  
P.T.R. NO. : 3519690 DATE : 01/02/2025  
PLACE : TUGUEGARAO TIN : 434-223-673

CLIENT/OWNER:  
PROJECT TITLE:  
**PROPOSED ONE STOREY DUPLEX HOUSE**  
LOCATION:  
BANGLADESH

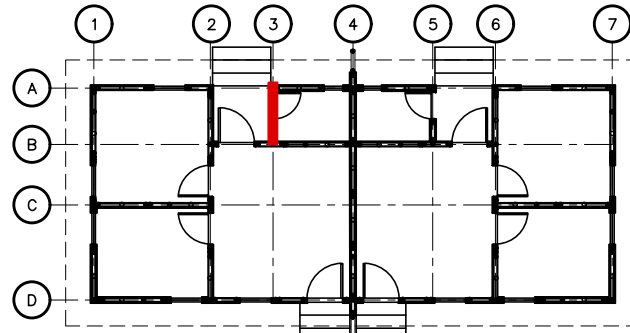
SHEET CONTENTS:  
NO. REVISIONS:  
DATE:  
DESIGNED BY:  
DRAFTED BY:  
E.M.D.  
CHECKED BY:  
L.F.L.

DATE : 08-JUNE-2026  
PROCESS :  
SHEET NO. :  
**S 02F**

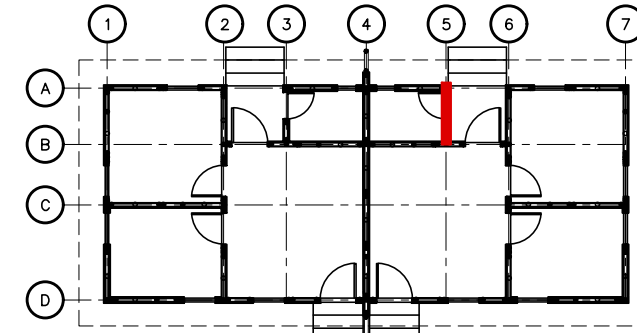
NOTE: CROSS CHECK EACH PANELS WITH S-02A AND S-03 SHEETS



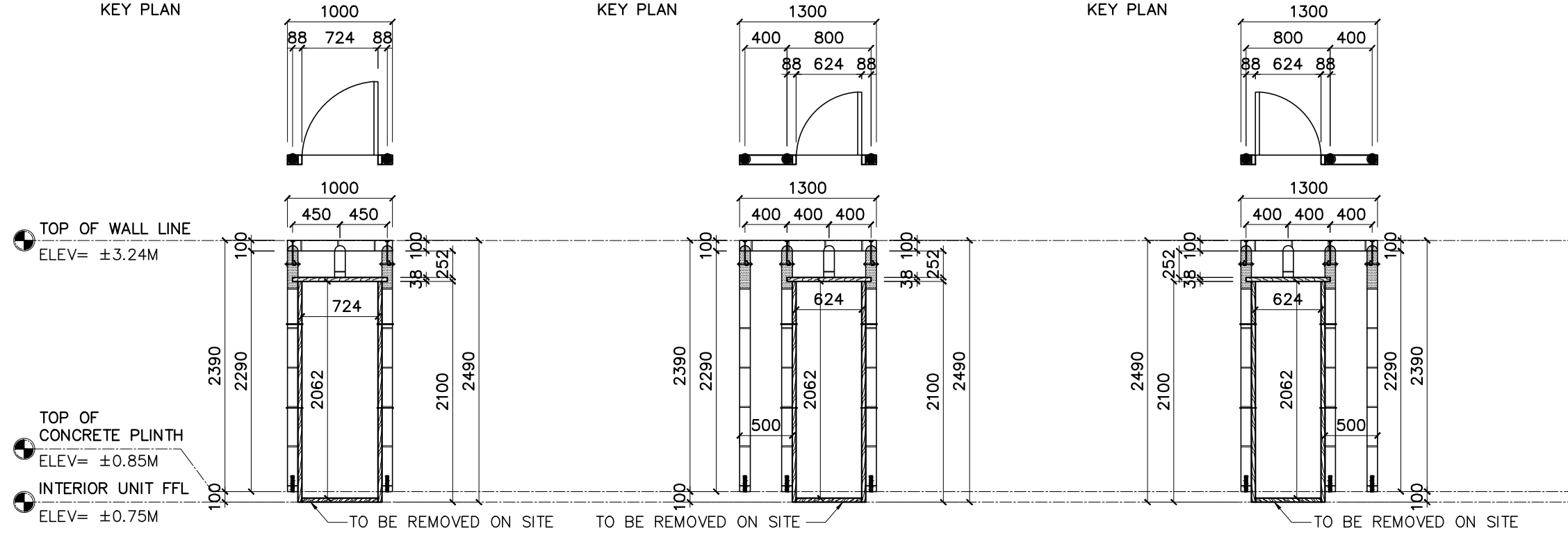
DP03 LOCATION KEY PLAN



DP04A LOCATION KEY PLAN



DP04B LOCATION KEY PLAN



NAME	DP03
QTY	FOUR (4) SET/S

NAME	DP04A
QTY	ONE (1) SET

NAME	DP04B
QTY	ONE (1) SET

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1000 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	2 PC
BAMBOO STUD	100MM	252 MM	1 PC
DOOR JAMB	2"X4"	900 MM	1 PC
DOOR JAMB	2"X4"	2100 MM	2 PC
TEMP. TIMBER PLATE	2"X4"	724 MM	1 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
WASHER	3/8" THK.	-	8 PC
THREADED J-BOLT	1/2" THK.	300 MM	2 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	2 PC
NUTS	1/2" THK.	-	6 PC
WASHER	1/2" THK.	-	6 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1300 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
BAMBOO STUD	100MM	252 MM	1 PC
DOOR JAMB	2"X4"	800 MM	1 PC
DOOR JAMB	2"X4"	2100 MM	2 PC
TEMP. TIMBER PLATE	2"X4"	624 MM	1 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
WASHER	3/8" THK.	-	8 PC
THREADED J-BOLT	1/2" THK.	300 MM	3 PC
STRAIGHT THREADED ROD	1/2" THK.	150 MM	3 PC
NUTS	1/2" THK.	-	9 PC
WASHER	1/2" THK.	-	9 PC

COMPONENT	SIZE	LENGTH	QTY
TOP BAMBOO STUD	100MM	1300 MM	1 PC
T1 BAMBOO STUD	100MM	2340 MM	3 PC
BAMBOO STUD	100MM	252 MM	1 PC
DOOR JAMB	2"X4"	800 MM	1 PC
DOOR JAMB	2"X4"	2100 MM	2 PC
TEMP. TIMBER PLATE	2"X4"	624 MM	1 PC
STRAIGHT THREADED ROD	3/8" THK.	188 MM	4 PC
NUTS	3/8" THK.	-	8 PC
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PLACE : TUGUEGARAO TIN : 434-223-673

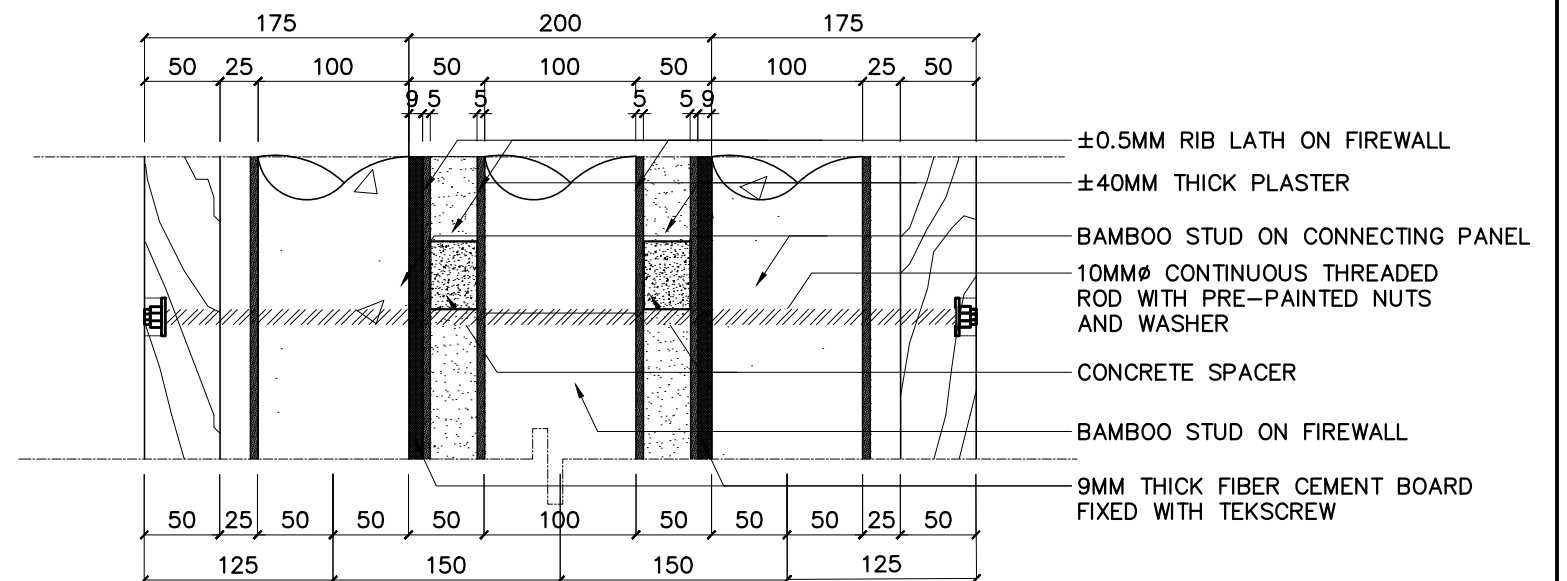
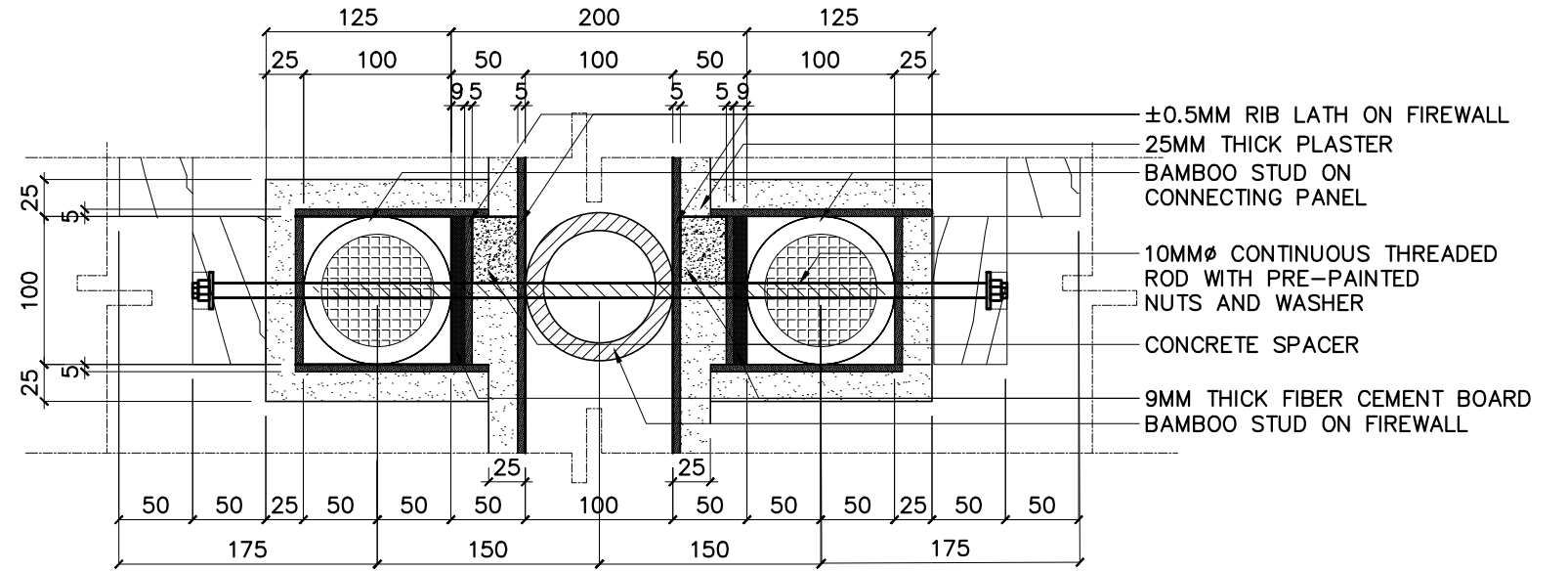
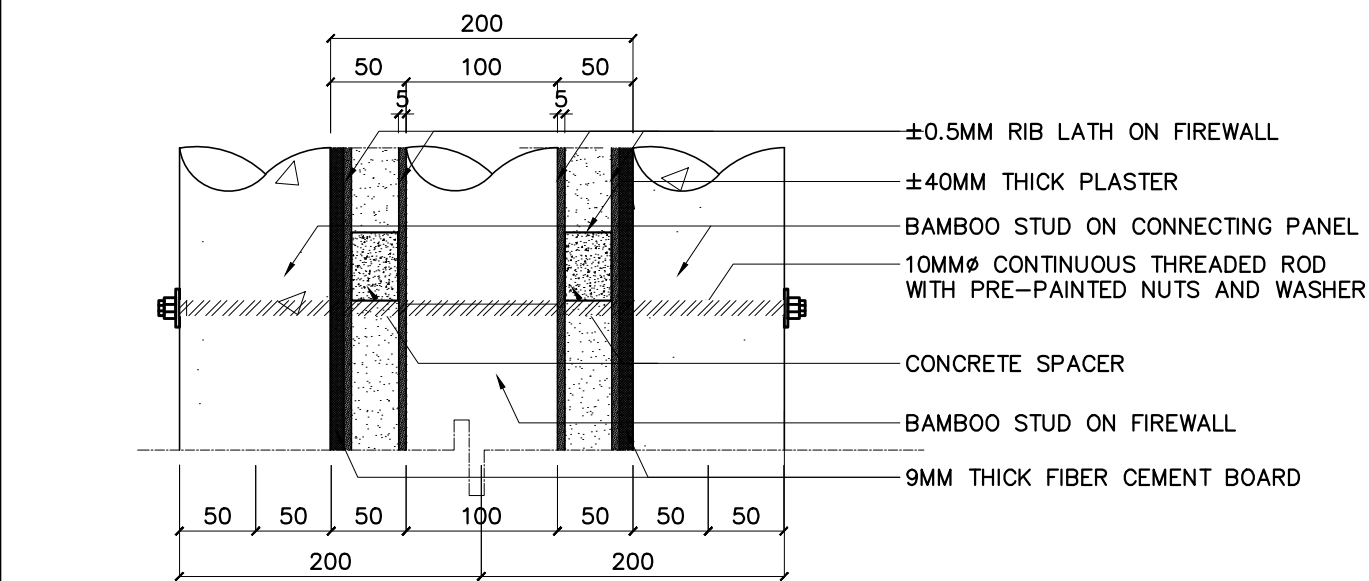
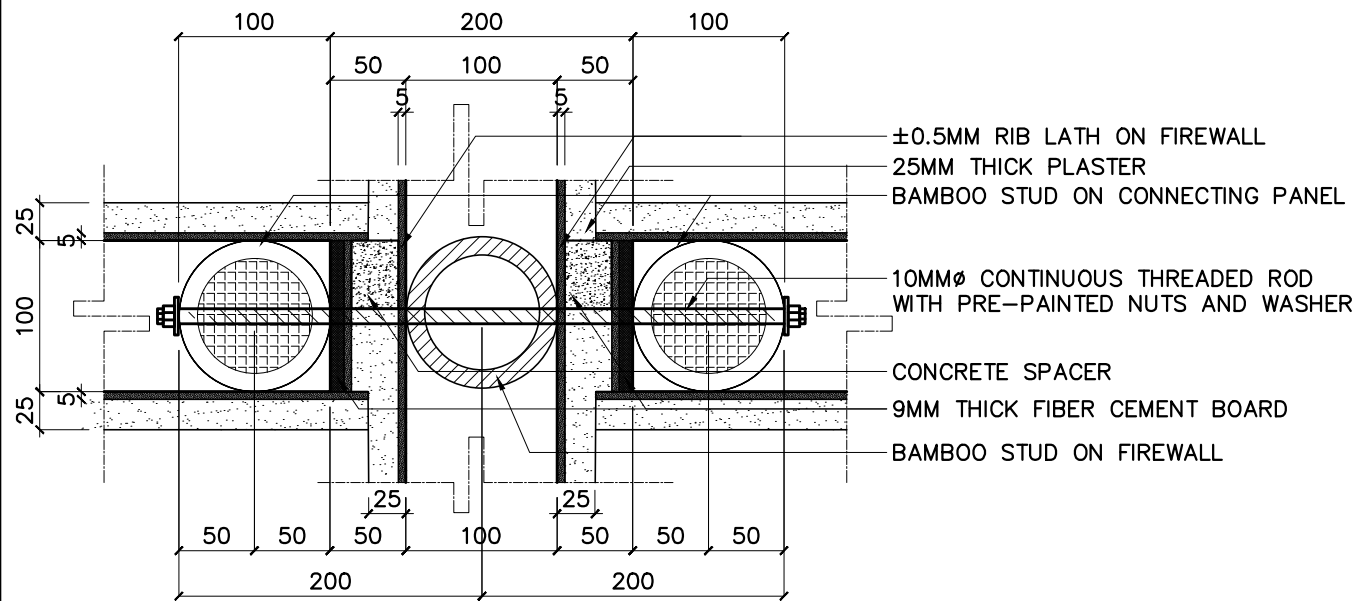
CLIENT/OWNER:

PROJECT TITLE:  
**PROPOSED ONE STOREY DUPLEX HOUSE**  
LOCATION:  
BANGLADESH

SHEET CONTENTS:

NO. REVISIONS: -  
DATE: -  
DESIGNED BY: -  
DRAFTED BY: -  
E.M.D.  
CHECKED BY: -  
L.F.L.

DATE : 08-JUNE-2026  
PROCESS :  
SHEET NO.:  
**S 02G**



**2 FIREWALL TO SOLID PANEL CONN. DET.**

S-02H SCALE

1:5M

**3 FIREWALL TO DOOR/WINDOW PANEL CONN. DET.**

S-02H SCALE

1:5M



**R.A. 9266, ARTICLE IV, SECTION 33:**  
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ARCHITECT:  
**VEMBEE A. GOHETIA**  
CIVIL/STRUCTURAL ENGINEER  
PRC NO. : 0004857 VALIDITY : 09/28/2027  
P.T.R. NO. : 3519690 DATE : 01/02/2025  
PLACE : TUQUEGARAO TIN : 434-223-673

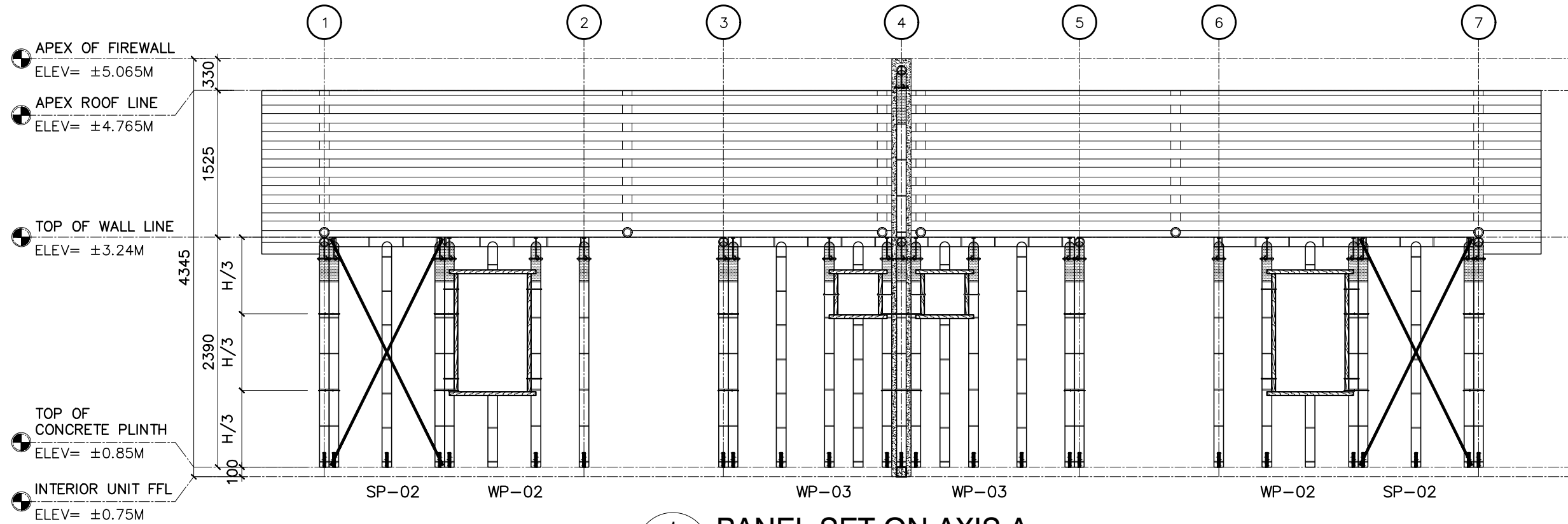
CLIENT/OWNER:

PROJECT TITLE:  
**PROPOSED ONE STOREY DUPLEX HOUSE**  
LOCATION:  
BANGLADESH

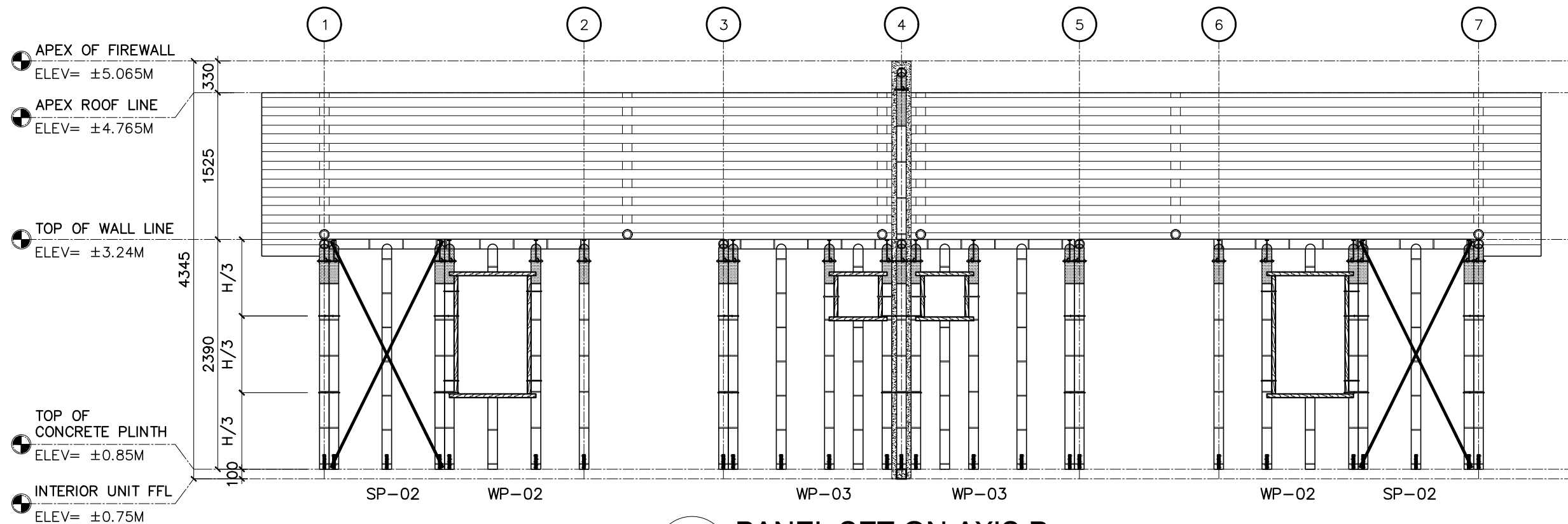
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-	-	-	-	PROCESS :
			DRAFTED BY:	SHEET NO.:
			E.M.D.	<b>S 02H</b>
			CHECKED BY:	
			L.F.L	

DESIGNED BY:  
DRAFTED BY:  
E.M.D.  
CHECKED BY:  
L.F.L



**1** PANEL SET ON AXIS A  
S-03A SCALE 1:50M



**2** PANEL SET ON AXIS B  
S-03A SCALE 1:50M



R.A. 9266, ARTICLE IV, SECTION 33:  
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VEMBEE A. GOHETIA CIVIL/STRUCTURAL ENGINEER			
PRC NO. : 0004857	VALIDITY : 09/28/2027		
P.T.R. NO. : 3519690	DATE : 01/02/2025		
PLACE : TUGUEGARAO	TIN : 434-223-673		

PROJECT TITLE:	
PROPOSED ONE STOREY DUPLEX HOUSE	
LOCATION:	
BANGLADESH	

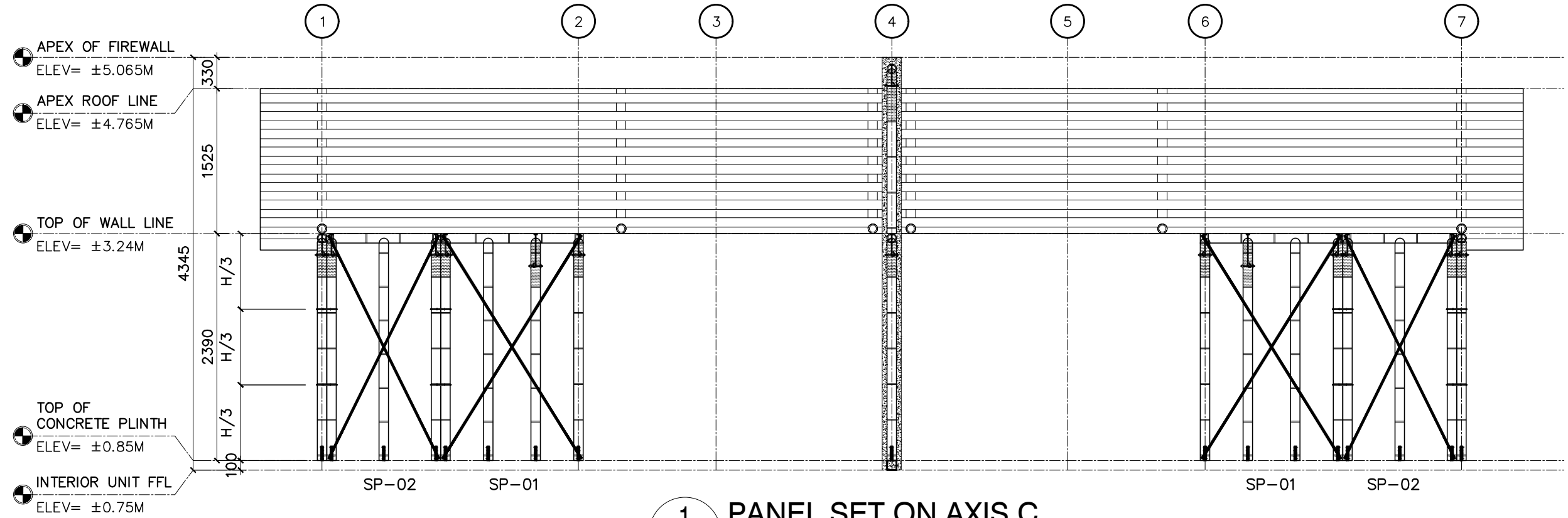
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			CHECKED BY:	
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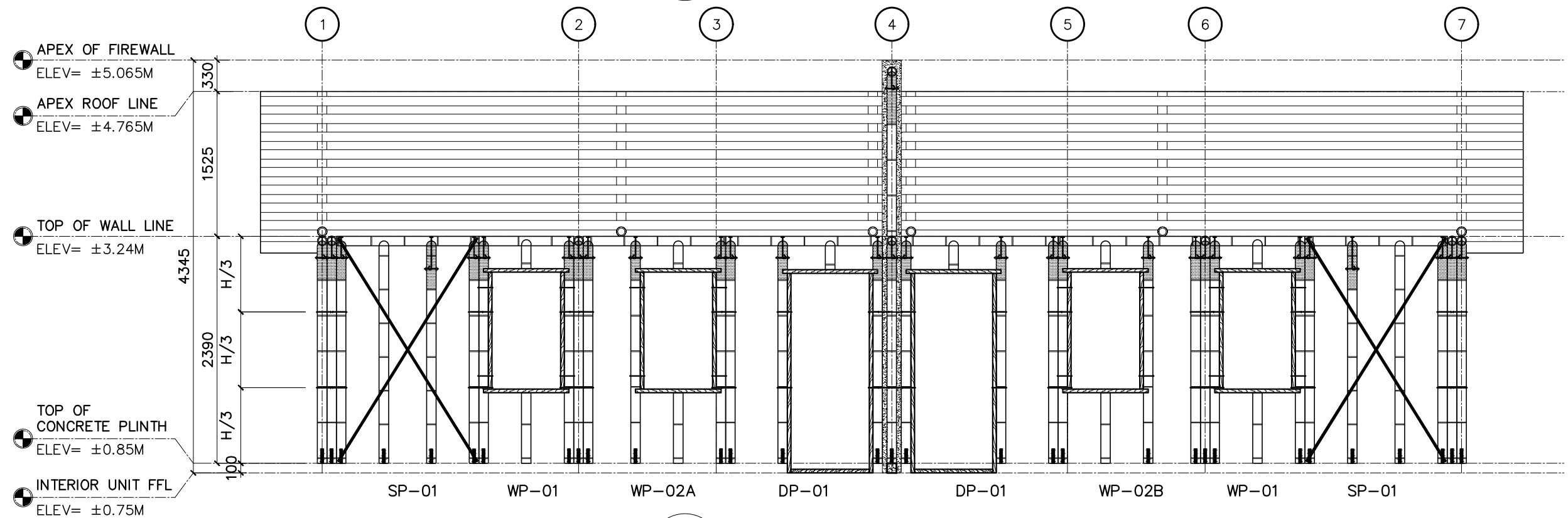
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						E.M.D.			
						CHECKED BY:			
						L.F.L			

NO.		REVISIONS:		DATE:		DESIGNED BY:		DATE : 08-JUNE-2026	
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						DRAFTED BY:		SHEET NO.:	
						E.M.D.			
						CHECKED BY:			
						L.F.L			

S 03A



**1** PANEL SET ON AXIS C  
S-03B SCALE 1:50M



**2** PANEL SET ON AXIS D  
S-03B SCALE 1:50M



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PRC NO. : 0004857	VALIDITY : 09/28/2027		
P.T.R. NO. : 3519690	DATE : 01/02/2025		
PLACE : TUGUEGARAO	TIN : 434-223-673		

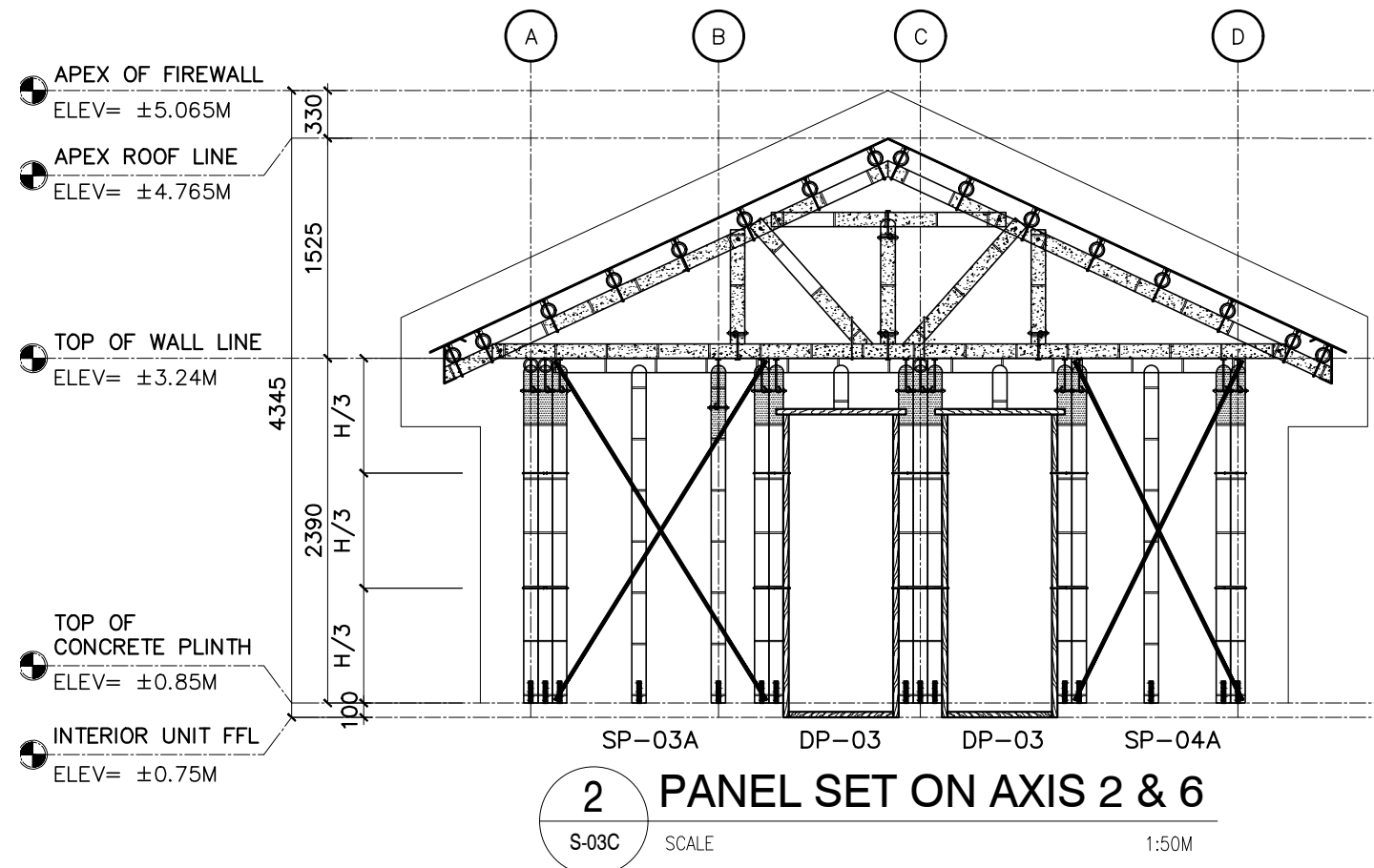
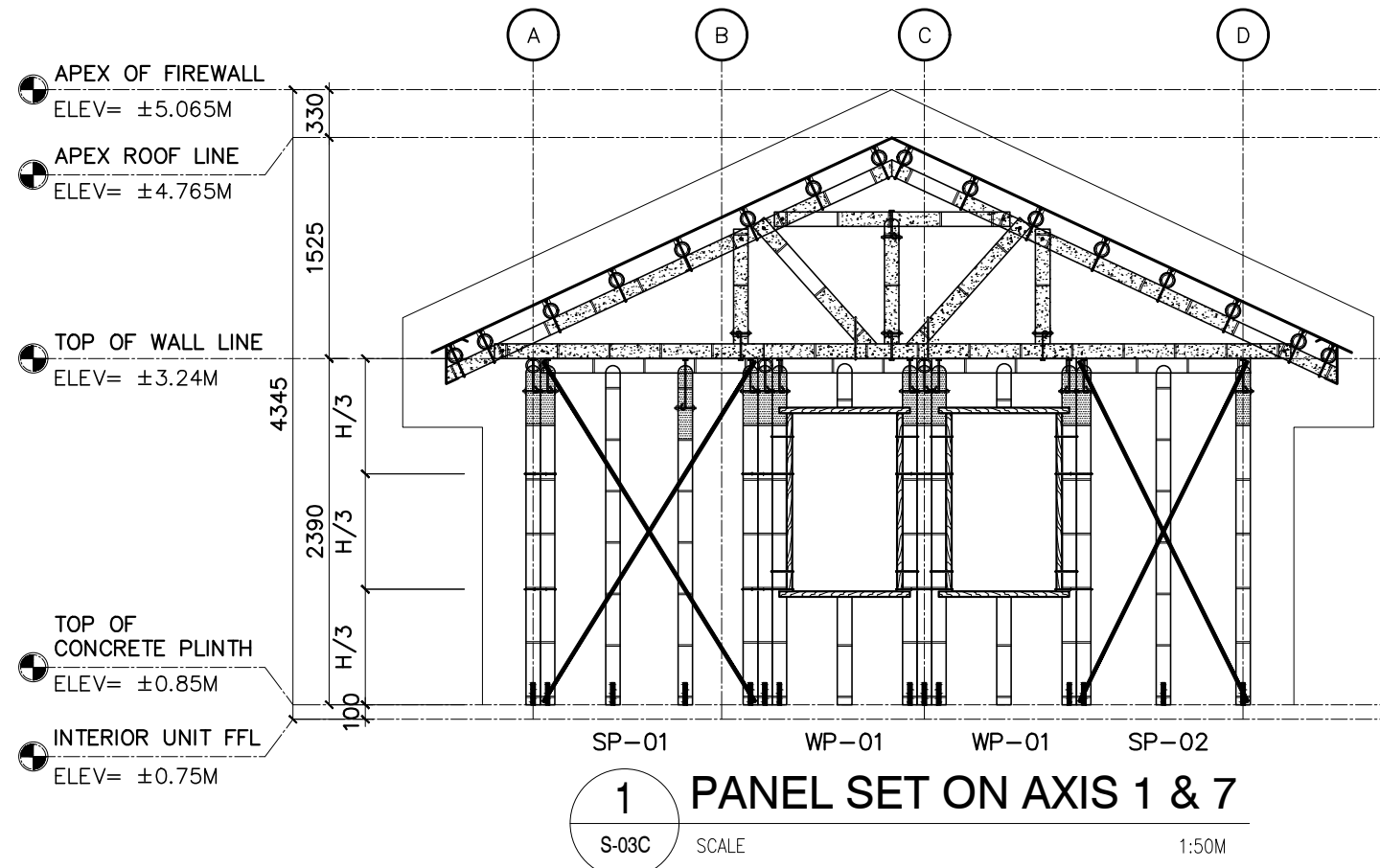
PROJECT TITLE:	
PROPOSED ONE STOREY DUPLEX HOUSE	
LOCATION:	
BANGLADESH	

SHEET CONTENTS:	

NO.	REVISIONS:	DATE:	DESIGNED BY:
-	-	-	-
			DRAFTED BY:
			E.M.D.
			CHECKED BY:
			L.F.L

DATE:	DESIGNED BY:
-	-
DRAFTED BY:	E.M.D.
CHECKED BY:	L.F.L

DATE : 08-JUNE-2026
PROCESS :
SHEET NO.:
<b>S 03B</b>



**R.A. 9266, ARTICLE IV, SECTION 33:**  
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PLACE : TUGUEGARAO	TIN : 434-223-673

CLIENT/OWNER:

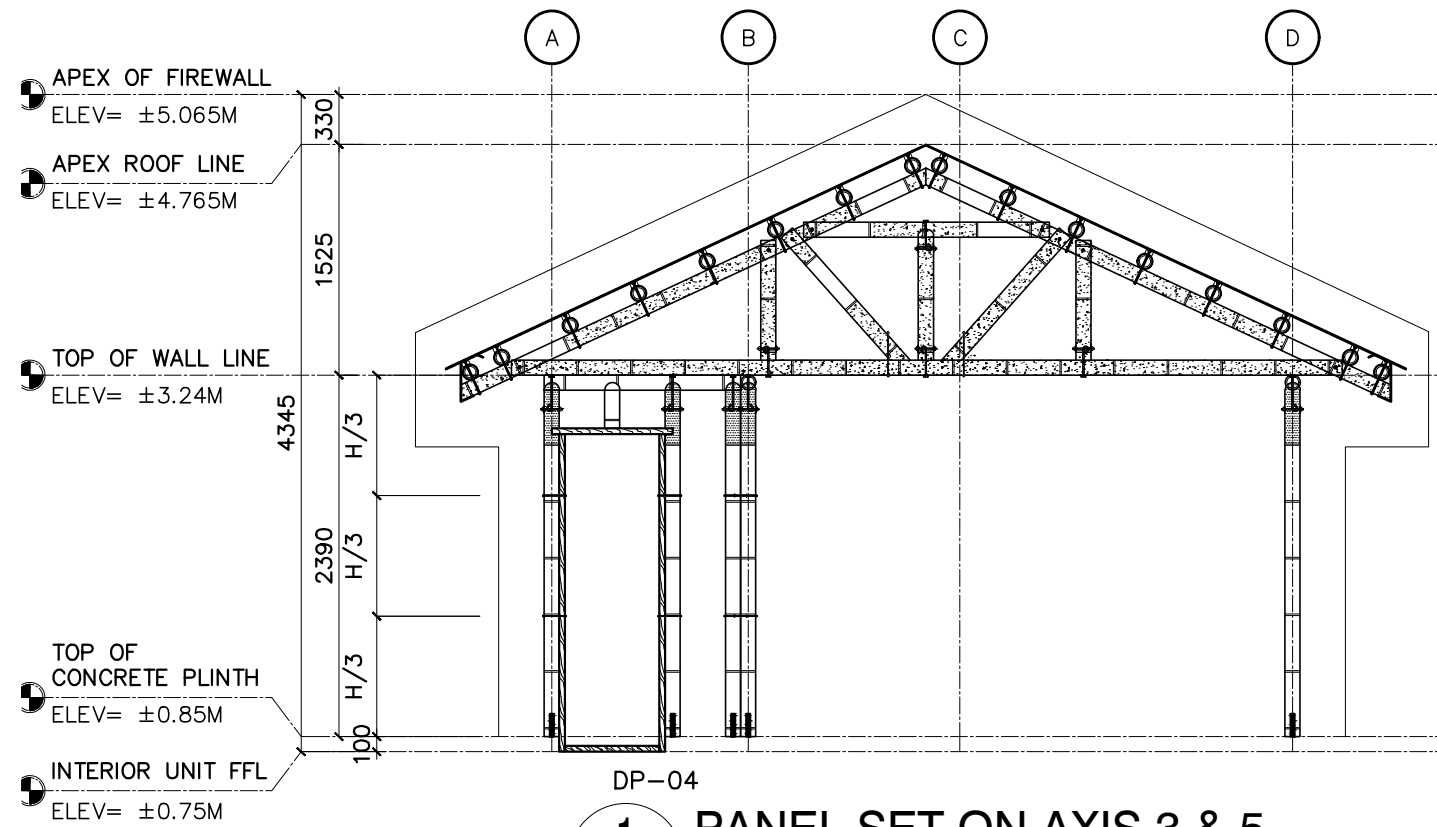
PROJECT TITLE:	PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:	
BANGLADESH	

SHEET CONTENTS:	
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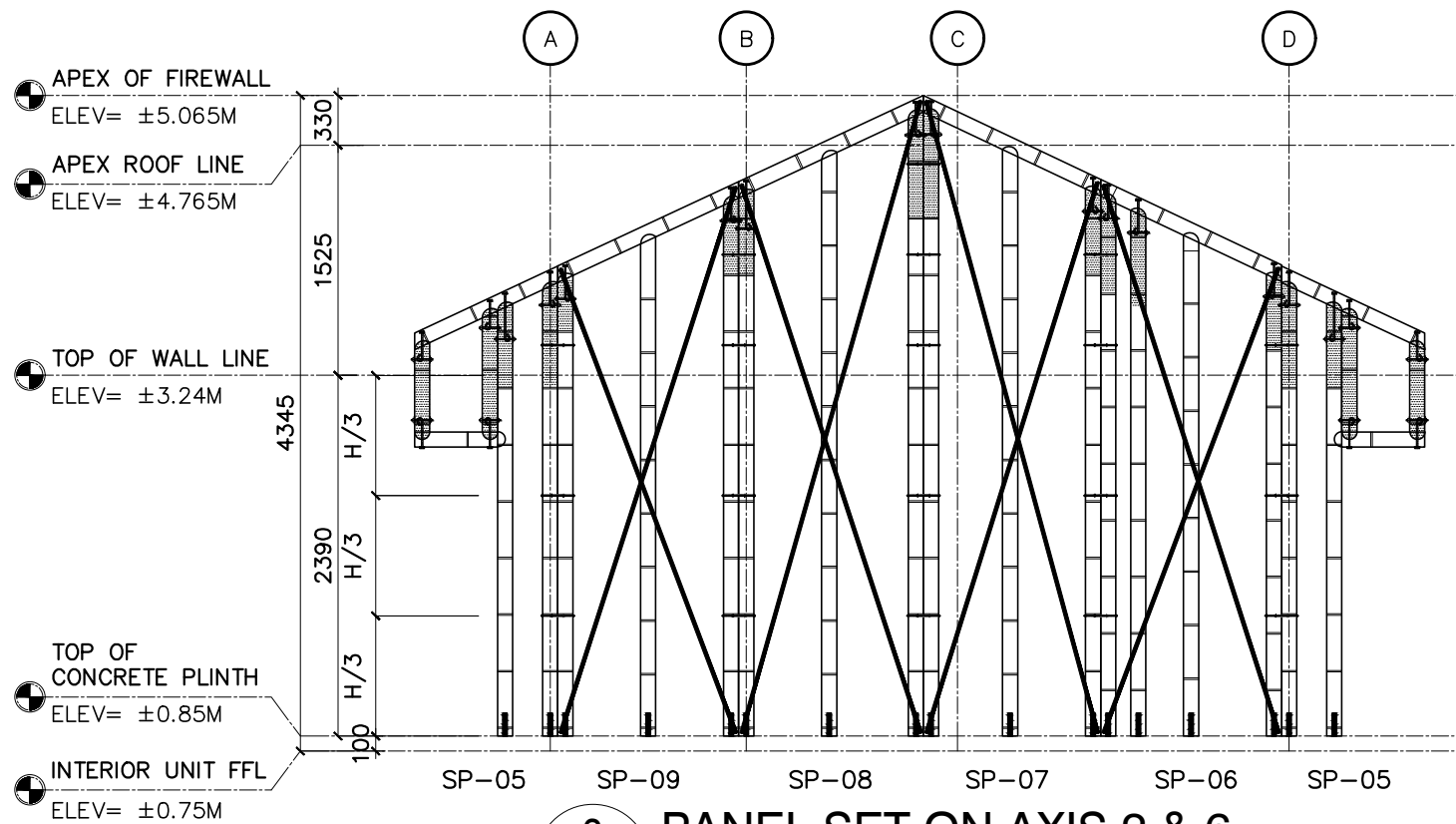
NO.	REVISIONS:	DATE:	DESIGNED BY:
-	-	-	-
			DRAFTED BY:
			E.M.D.
			CHECKED BY:
			L.F.L

DATE : 08-JUNE-2026
PROCESS :
SHEET NO.:

S 03C



**1** PANEL SET ON AXIS 3 & 5  
S-03D SCALE 1:50M



**3** PANEL SET ON AXIS 2 & 6  
S-03D SCALE 1:50M



**R.A. 9266, ARTICLE IV, SECTION 33:**  
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VEMBEE A. GOHETIA CIVIL/STRUCTURAL ENGINEER	
PRC NO. : 0004857	VALIDITY : 09/28/2027
P.T.R. NO. : 3519690	DATE : 01/02/2025
PLACE : TUGUEGARAO	TIN : 434-223-673

CLIENT/OWNER:

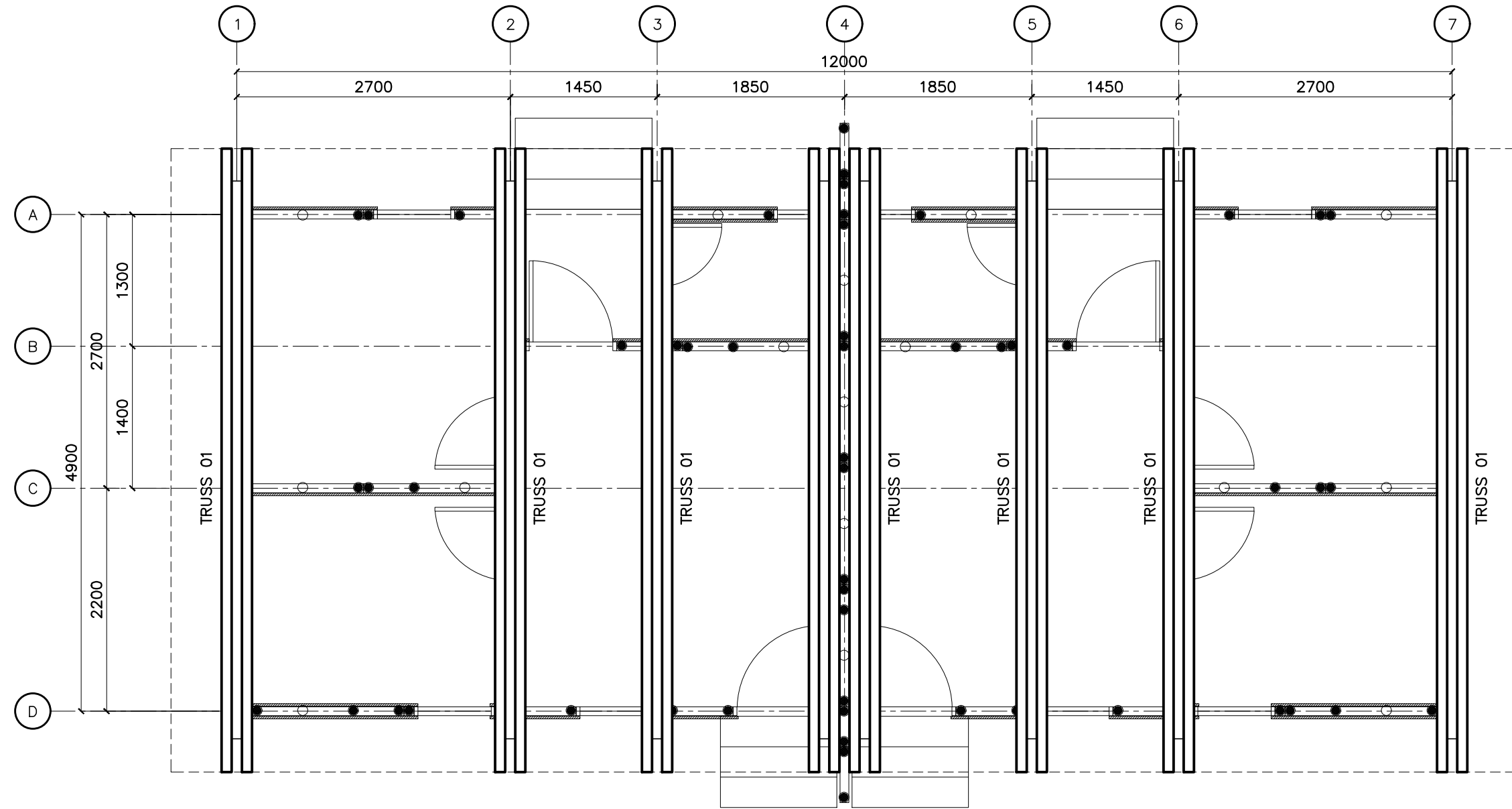
PROJECT TITLE:
PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:
BANGLADESH

SHEET CONTENTS:

NO.	REVISIONS:	DATE:	DESIGNED BY:
-	-	-	-
			DRAFTED BY:
			E.M.D.
			CHECKED BY:
			L.F.L

DATE: 08-JUNE-2026
PROCESS :
SHEET NO.:

**S 03D**



1 TRUSS LAYOUT PLAN  
S-04A SCALE 1:100MM



**R.A. 9266, ARTICLE IV, SECTION 33:**  
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PLACE : TUGUEGARAO	TIN : 434-223-673

CLIENT/OWNER:

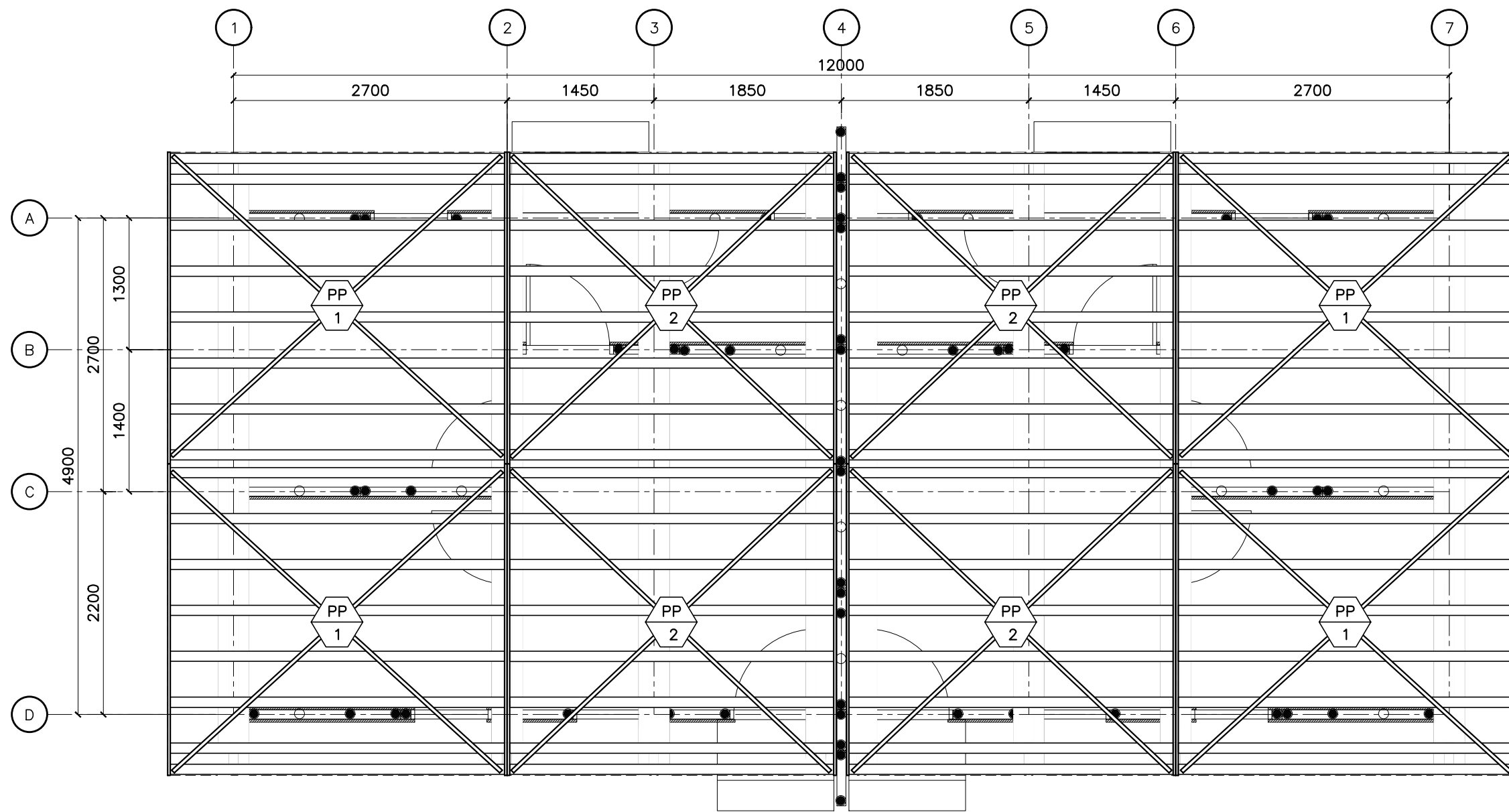
PROJECT TITLE:	PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:	
BANGLADESH	

SHEET CONTENTS:

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DESIGNED BY:	
DRAFTED BY:	E.M.D.
CHECKED BY:	L.F.L

DATE : 08-JUNE-2026
PROCESS :
SHEET NO.:
S 04A



**1 PURLINS LAYOUT PLAN**  
 S-04B SCALE 1:50M



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P.T.R. NO. : 3519690	DATE : 01/02/2025
PLACE : TUQUEGARAO	TIN : 434-223-673

CLIENT/OWNER:

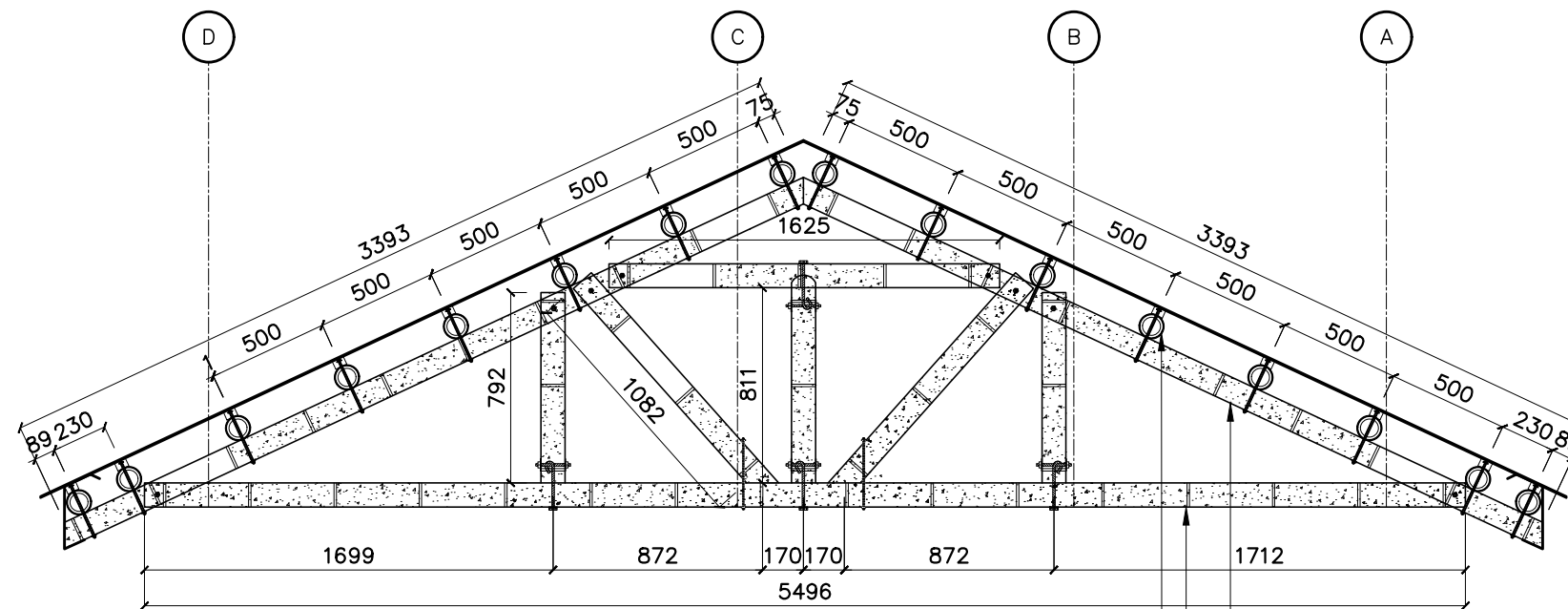
PROJECT TITLE:	PROPOSED ONE STOREY DUPLEX HOUSE
LOCATION:	
BANGLADESH	

SHEET CONTENTS:

NO.	REVISIONS:	DATE:

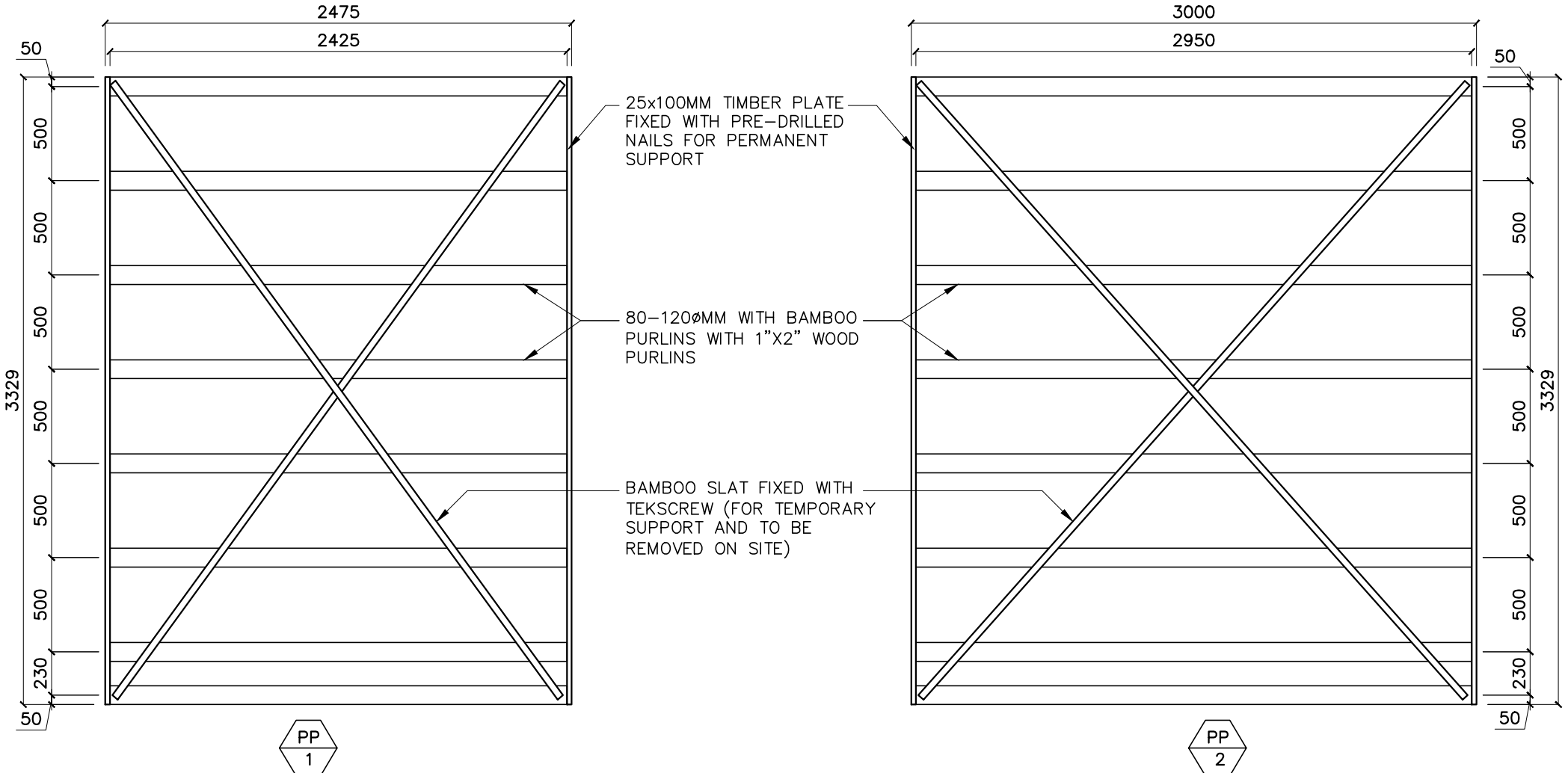
DESIGNED BY:	
DRAFTED BY:	
E.M.D.	
CHECKED BY:	
L.F.L	

DATE : 08-JUNE-2026
PROCESS :
SHEET NO.:
<b>S 04B</b>



**1 TRUSS 01 DETAIL**  
 S-04C SCALE 1:30M

100MMØ BAMBOO PURLINS SPACED AS SHOWN O.C.; FIXED TO TRUSS WITH 10MMØ THREADED BOLT WITH PRE-PAINTED NUTS AND WASHER AT BOTH ENDS  
 120MMØ UPPER ROOF BAMBOO BOTTOM CHORD  
 120MMØ UPPER ROOF BAMBOO DOUBLE TOP CHORD



**2 SCHEDULE OF PURLINS PANEL**  
 S-04C SCALE 1:50M



**R.A. 9266, ARTICLE IV, SECTION 33:**  
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PLACE : TUGUEGARAO	TIN : 434-223-673		

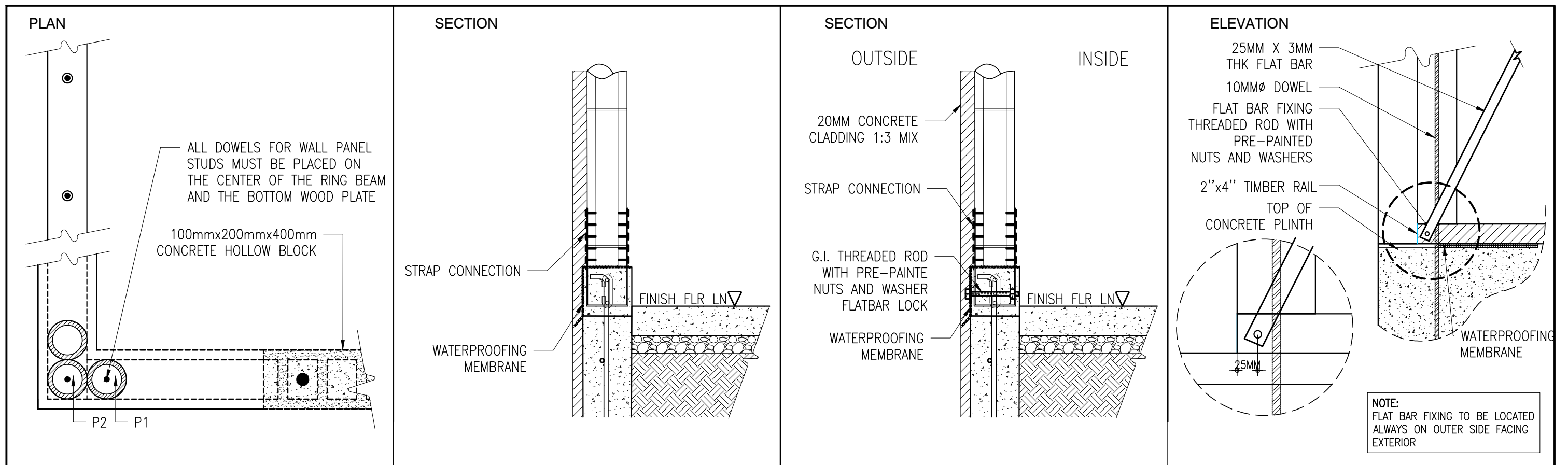
PROJECT TITLE:	
PROPOSED ONE STOREY DUPLEX HOUSE	
LOCATION:	
BANGLADESH	

SHEET CONTENTS:	

NO.	REVISIONS:	DATE:
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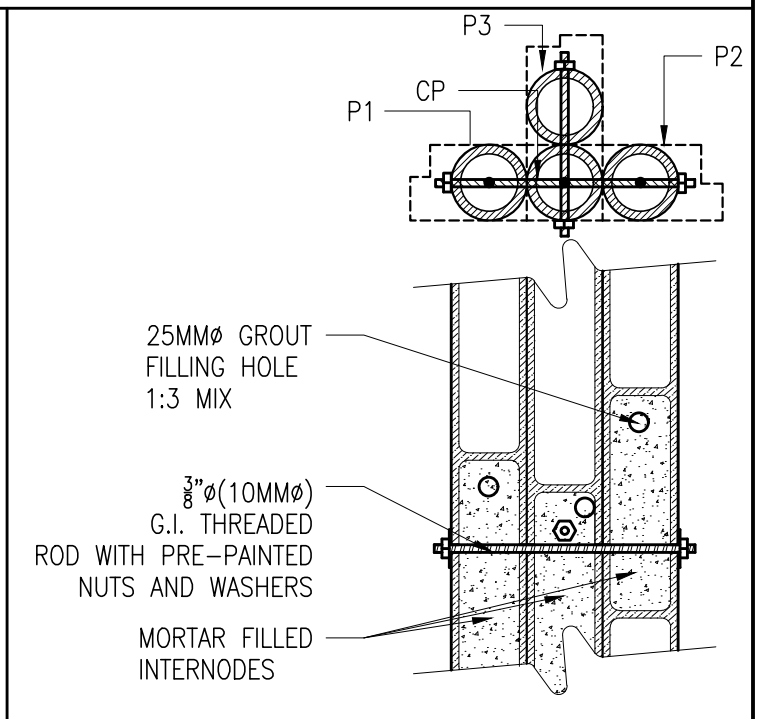
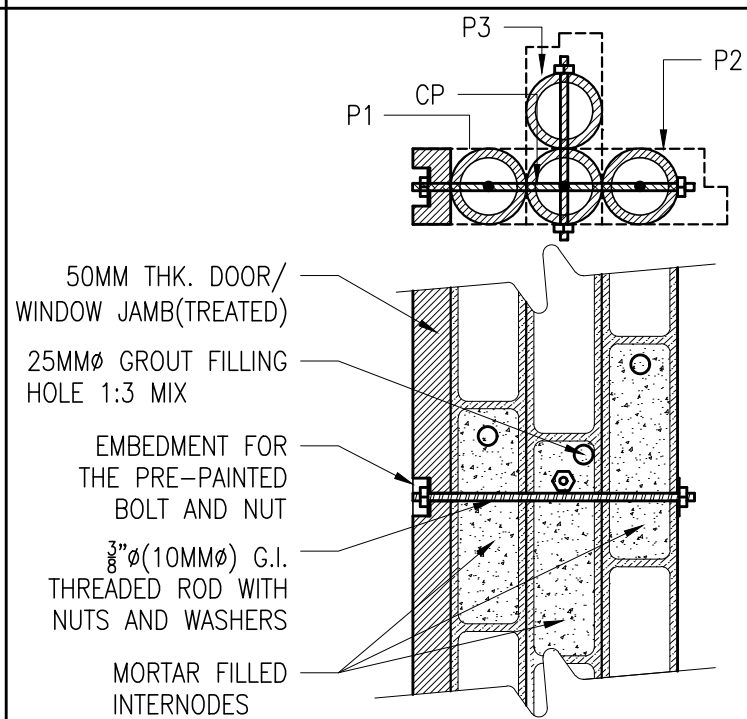
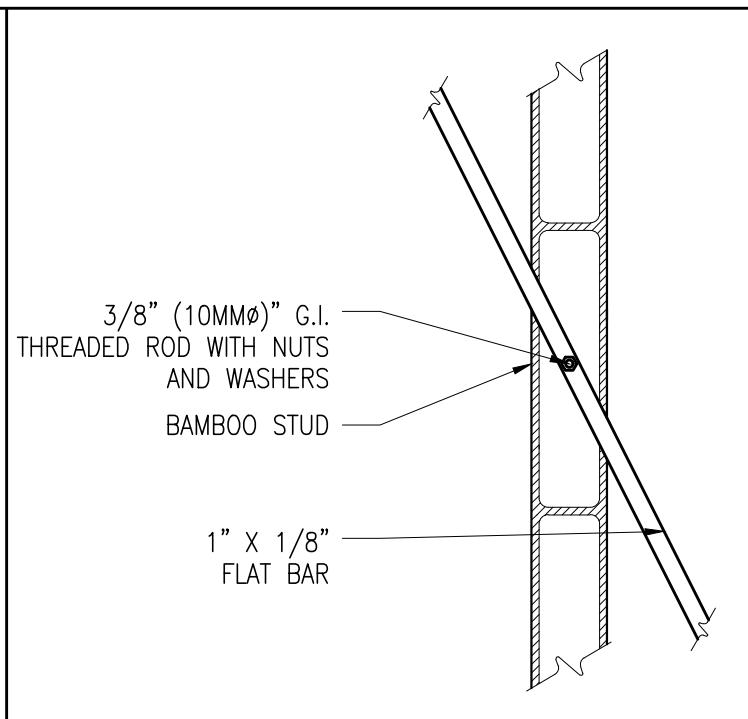
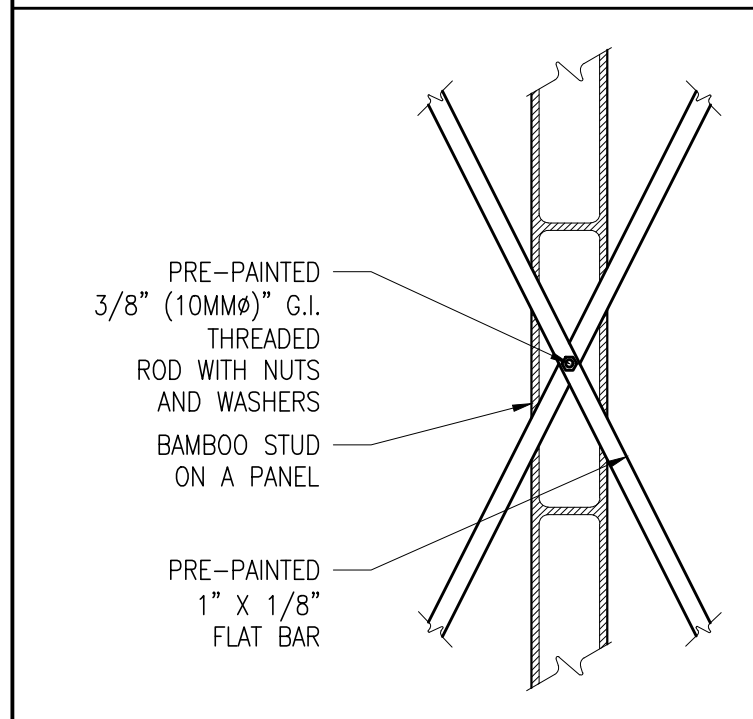
DESIGNED BY:	DATE: 08-JUNE-2026
DRAFTED BY:	PROCESS :
E.M.D.	SHEET NO.:
CHECKED BY:	
L.F.L.	

S	04C	



**1** BAMBOO WALL STUDS AND DOWEL CONNECTION DETAIL  
S-05A SCALE 1:10MM

**2** FLAT BAR AND BOTTOM WOOD PLATE CONNECTION DETAIL  
S-05A SCALE 1:10MM



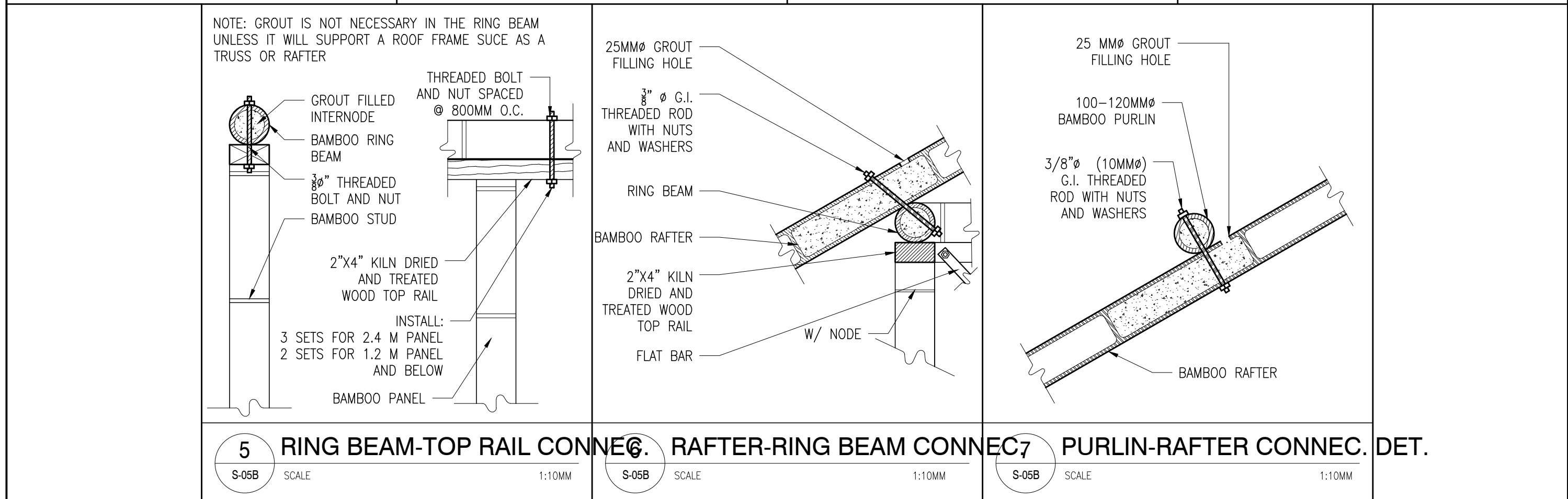
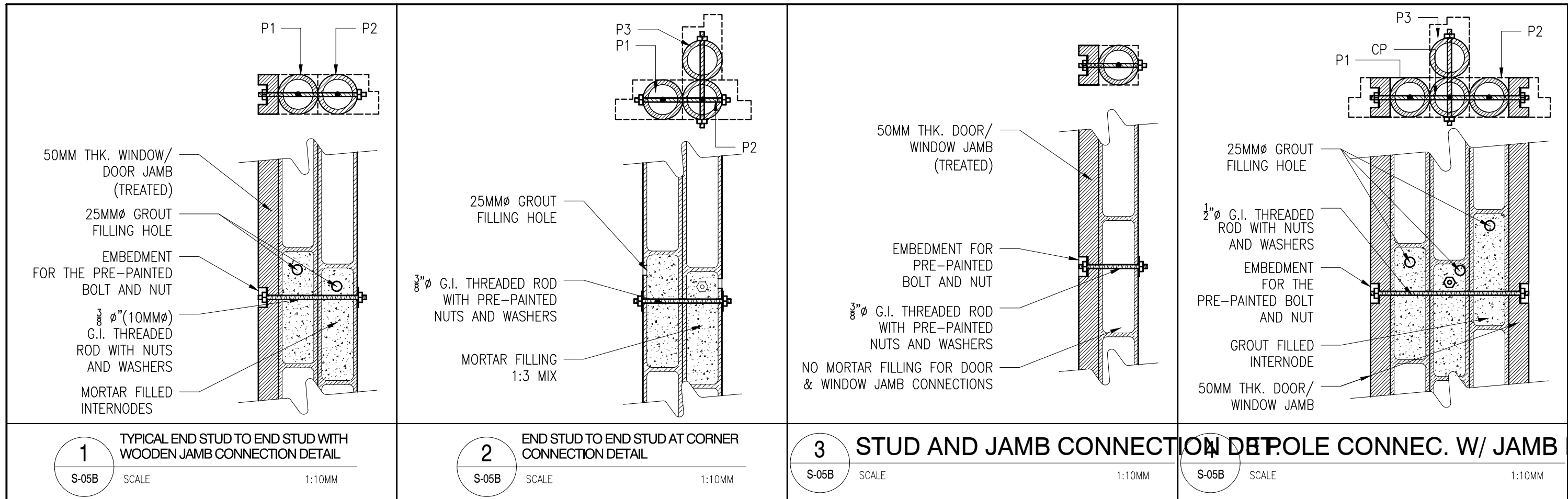
**3** TWO FLAT BAR-BAMBOO CONNEC. DET.  
S-05A SCALE 1:10MM

**4** SINGLE FLAT BAR-BAMBOO CONNEC. DET.  
S-05A SCALE 1:10MM

**5** END STUD TO END STUD AT INTERSECTION WITH CENTER POLE AND WOODEN JAMB CONNECTION DET.  
S-05A SCALE 1:10MM

**6** END STUD TO END STUD AT INTERSECTION WITH CENTER POLE CONNECTION DET.  
S-05A SCALE 1:10MM

	<b>R.A. 9266, ARTICLE IV, SECTION 33:</b> <small>DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENTS OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS OF BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENTS.</small>		<b>ENGINEER:</b> VEMBEE A. GOHETIA <small>CIVIL/STRUCTURAL ENGINEER</small>	<b>CLIENT/OWNER:</b> CAZANDRA OMEGA PANGANURON	<b>PROJECT TITLE:</b> RISK RESILIENT HOUSING PROTOTYPE	<b>SHEET CONTENTS:</b> AS SHOWN	<b>NO. REVISIONS:</b> -	<b>DATE:</b> -	<b>DESIGNED BY:</b> -	<b>DATE:</b> 01-JUNE-26
	<b>PRC NO.:</b> 0116247	<b>VALIDITY:</b> 05/10/2026	<b>PLACE:</b> MANDALUYONG	<b>TIN:</b> 405-327-404	<b>LOCATION:</b>	<b>NO. REVISIONS:</b>	<b>DATE:</b>	<b>DESIGNED BY:</b>	<b>PROCESS:</b> FOR BUILDING PERMIT	<b>SHEET NO.:</b>
	<b>P.T.R. NO.:</b> 5701934	<b>DATE:</b> 01/02/2025			<b>BRGY. BUCANA SASAHAN, NAIC, CAVITE</b>	<b>CHECKED BY:</b>	<b>E.M.D.</b>	<b>S</b>	<b>05A</b>	
	<b>PLACE:</b> MANDALUYONG	<b>TIN:</b> 405-327-404			<b>CHECKED BY:</b>	<b>L.F.L.</b>				



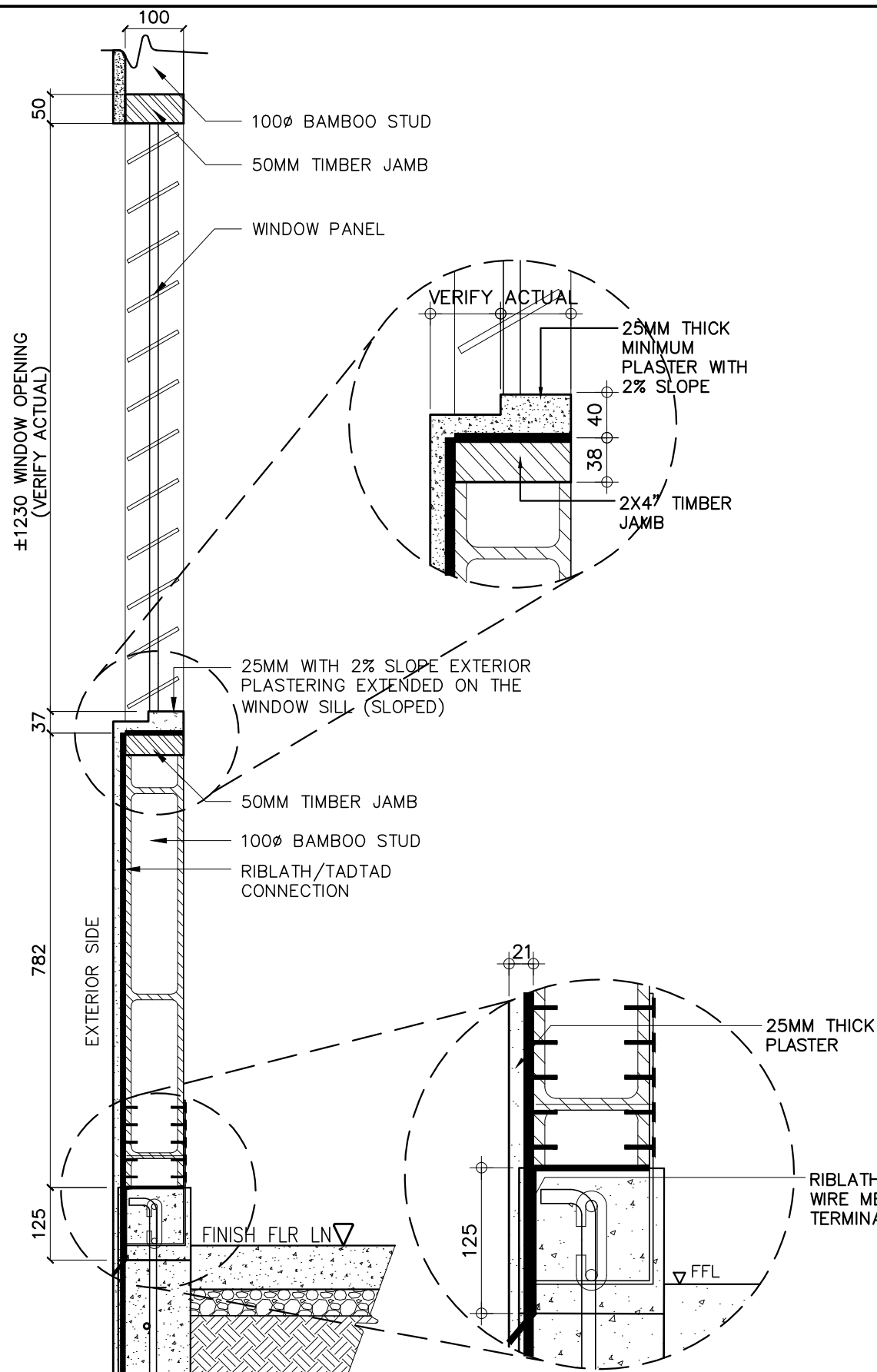
NOTE: GROUT IS NOT NECESSARY IN THE RING BEAM UNLESS IT WILL SUPPORT A ROOF FRAME SUCE AS A TRUSS OR RAFTER

INSTALL:  
 3 SETS FOR 2.4 M PANEL  
 2 SETS FOR 1.2 M PANEL AND BELOW

25MMØ GROUT FILLING HOLE  
 3/8" Ø G.I. THREADED ROD WITH NUTS AND WASHERS  
 RING BEAM  
 BAMBOO RAFTER  
 2"X4" KILN DRIED AND TREATED WOOD TOP RAIL  
 FLAT BAR  
 W/ NODE

25 MMØ GROUT FILLING HOLE  
 100-120MMØ BAMBOO PURLIN  
 3/8"Ø (10MMØ) G.I. THREADED ROD WITH NUTS AND WASHERS  
 BAMBOO RAFTER

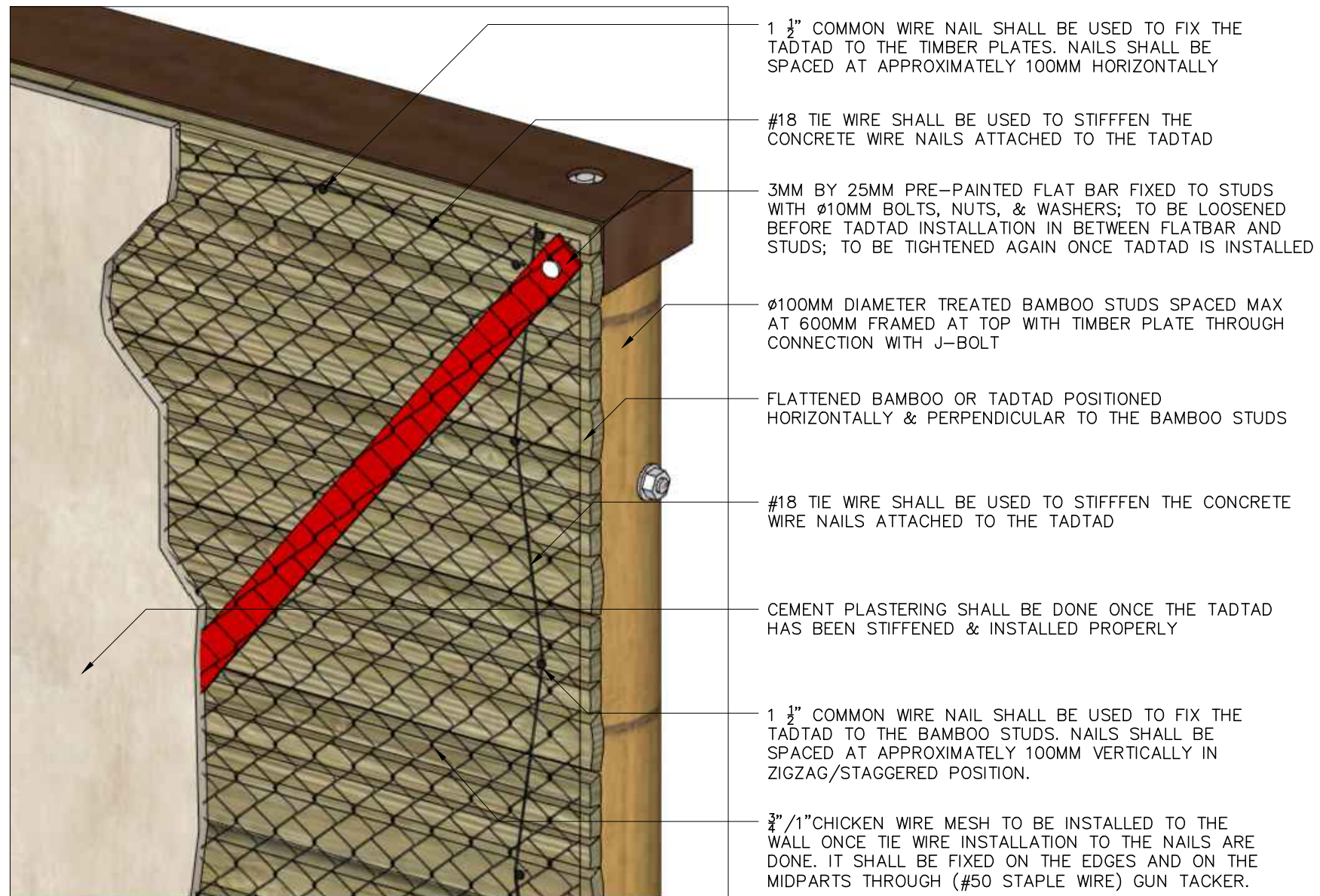
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	PRC NO. : 0116247 VALIDITY : 05/10/2026	P.T.R. NO. : 5701934 DATE : 01/02/2025	PLACE : MANDALUYONG TIN : 405-327-404	LOCATION: BRGY. BUCANA SASAHAN, NAIC, CAVITE	DRAFTED BY: E.M.D.	CHECKED BY: L.F.L.	SHEET NO.: <b>S 05B</b>			



**1 WINDOW OPENING - PLASTER DETAILS**

S-05C SCALE

1:10MM



**2 TADTAD INSTALLATION DETAIL**

S-05C SCALE

NTS



**R.A. 9266, ARTICLE IV, SECTION 33:**  
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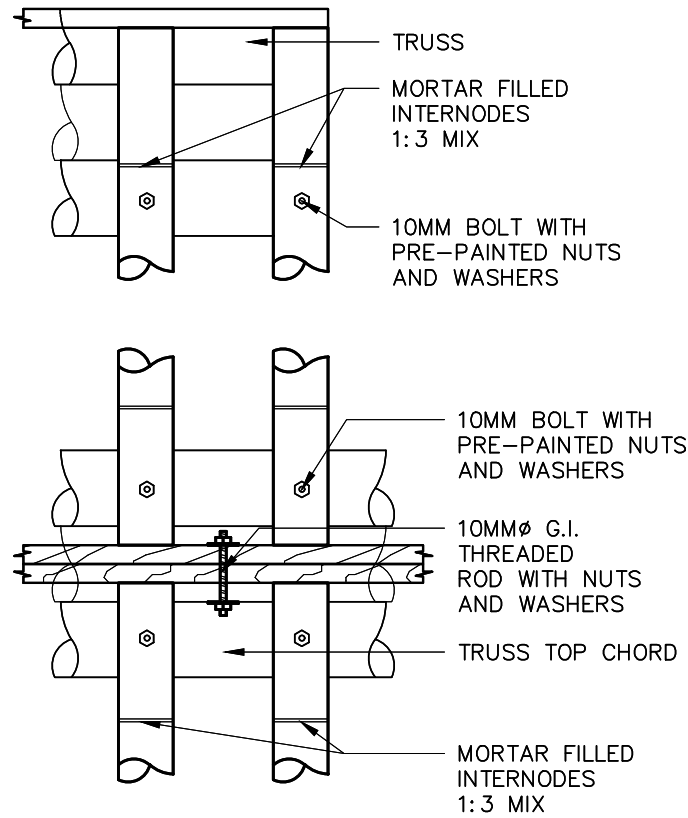
ENGINEER:  
**VEMBEE A. GOHETIA**  
CIVIL/STRUCTURAL ENGINEER  
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P.T.R. NO. : 5701934 DATE : 01/02/2025  
PLACE : MANDALUYONG TIN : 405-327-404

CLIENT/OWNER:  
**CAZANDRA OMEGA PANGANURON**

PROJECT TITLE:  
**RISK RESILIENT HOUSING PROTOTYPE**  
LOCATION:  
BRGY. BUCANA SASAHAN, NAIC, CAVITE

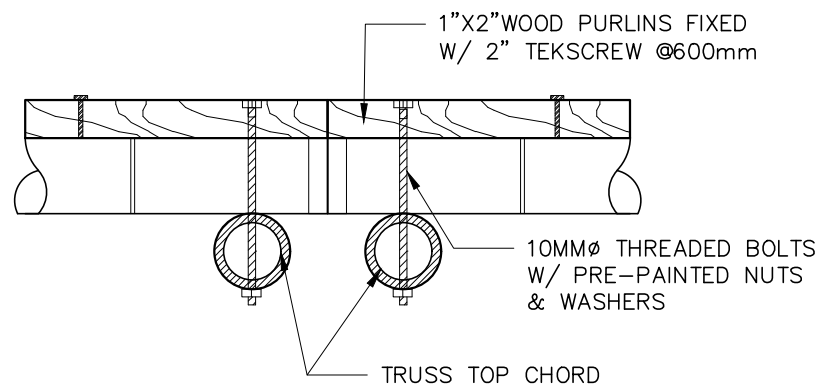
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AS SHOWN

NO.	REVISIONS:	DATE:	DESIGNED BY:	DATE : 01-JUNE-26
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			E.M.D.	<b>S 05C</b>
			CHECKED BY:	
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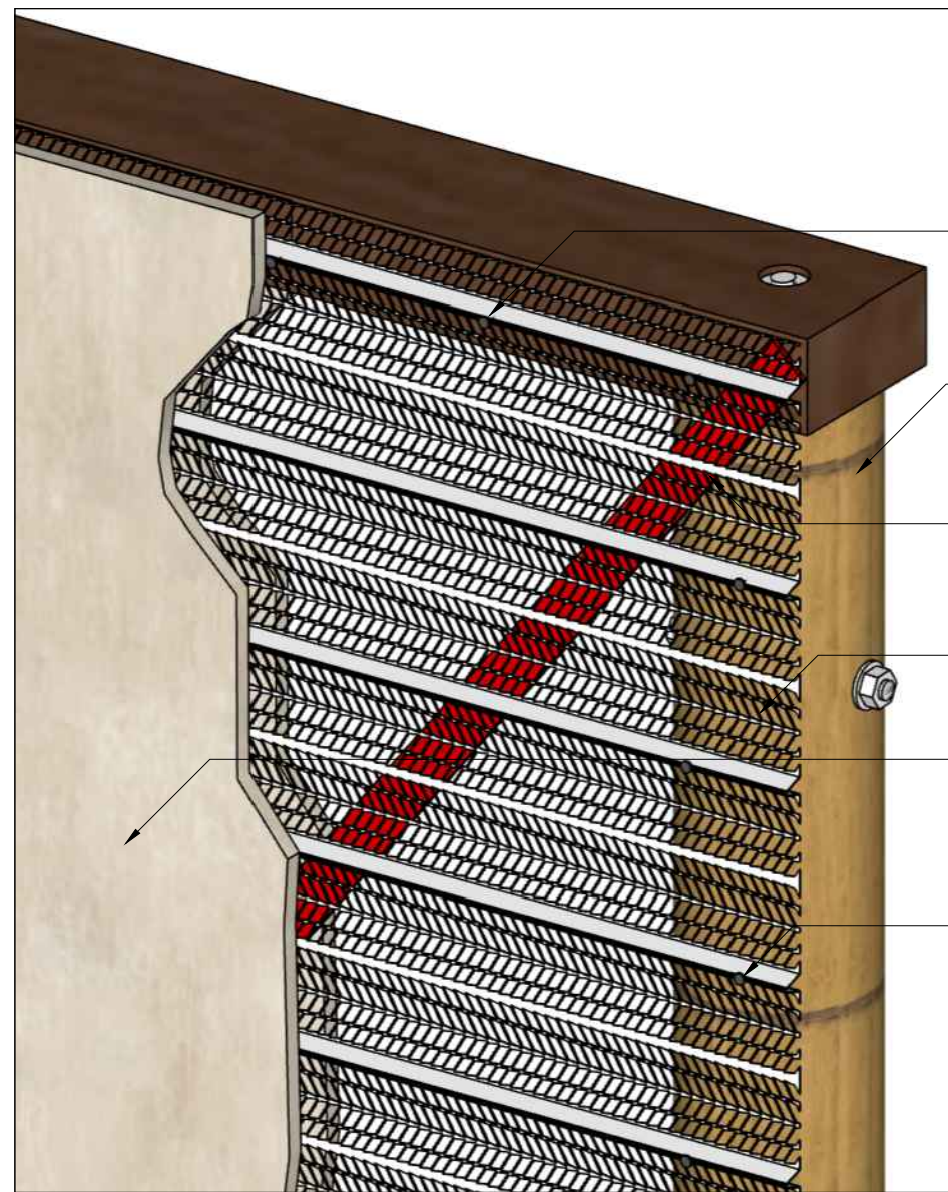
# 1 PURLINS-SPLICE CONNECTION DETAILS

S-05D SCALE 1:10MM



# 2 WOOD PURLINS DETAIL

S-05D SCALE 1:10MM



1 1/2" COMMON WIRE NAIL SHALL BE USED TO FIX THE RIBLATH TO THE TIMBER PLATES. NAILS SHALL BE SPACED AT APPROXIMATELY 100MM HORIZONTALLY.

Ø100MM DIAMETER TREATED BAMBOO STUDS SPACED MAX AT 600MM FRAMED AT TOP WITH TIMBER PLATE THROUGH FISHMOUTH CONNECTION WITH J-BOLT

3MM THK, 25MM PRE-PAINTED FLAT BAR FIXED TO STUDS WITH Ø10MM BOLTS, NUTS, & WASHER. SEE RIBLATH FLAT BAR CONNECTION FOR ADDITIONAL DETAIL

0.50MM THK, 600X2400MM RIB LATH PANEL LAID 100MM OVERLAP VERTICALLY AND HORIZONTALLY.

CEMENT PLASTERING SHALL BE DONE ON BOTH SIDES OF THE RIB LATH ONCE IT HAS BEEN STIFFENED & INSTALLED PROPERLY.

1 1/2" COMMON WIRE NAIL SHALL BE USED TO FIX THE RIBLATH TO THE BAMBOO STUDS. NAILS SHALL BE SPACED AT APPROXIMATELY 100MM VERTICALLY IN ZIGZAG/STAGGERED POSITION.

# 3 RIBLATH INSTALLATION DETAIL

S-05D SCALE NTS



**R.A. 9266, ARTICLE IV, SECTION 33:**  
DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENTS OF THE ARCHITECT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS OF BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENTS.

ENGINEER:	
VEMBEE A. GOHETIA CIVIL/STRUCTURAL ENGINEER	
PRC NO. : 0116247	VALIDITY : 05/10/2026
P.T.R. NO. : 5701934	DATE : 01/02/2025
PLACE : MANDALUYONG	TIN : 405-327-404

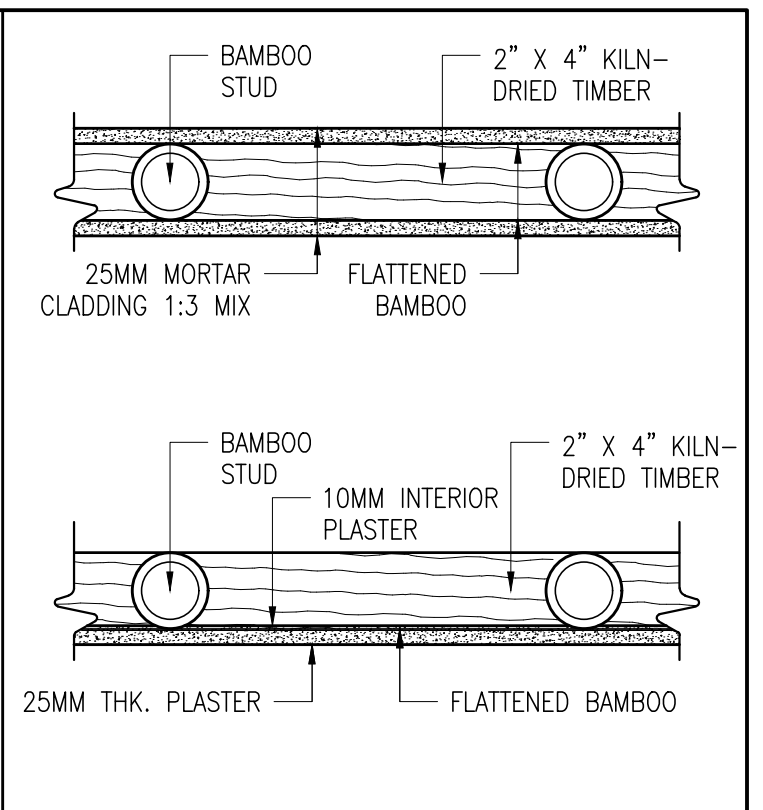
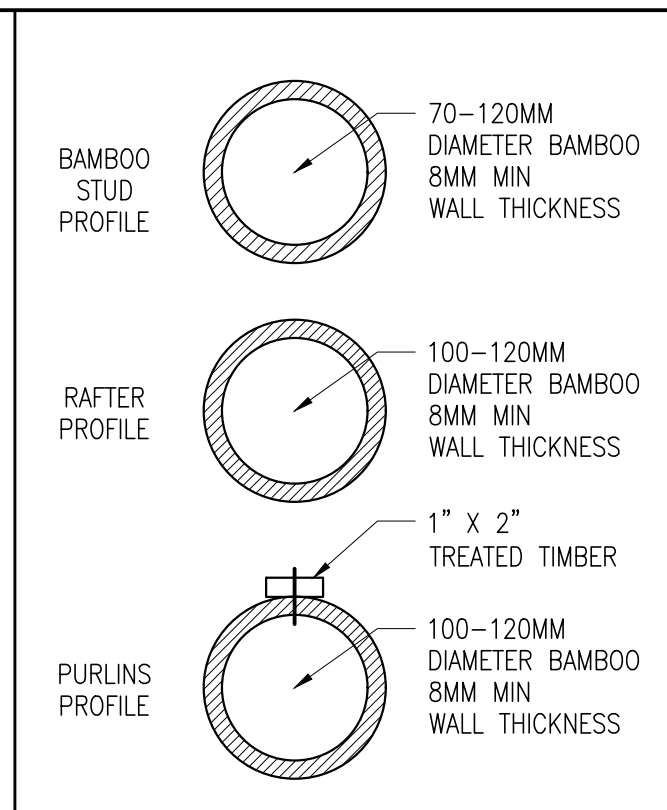
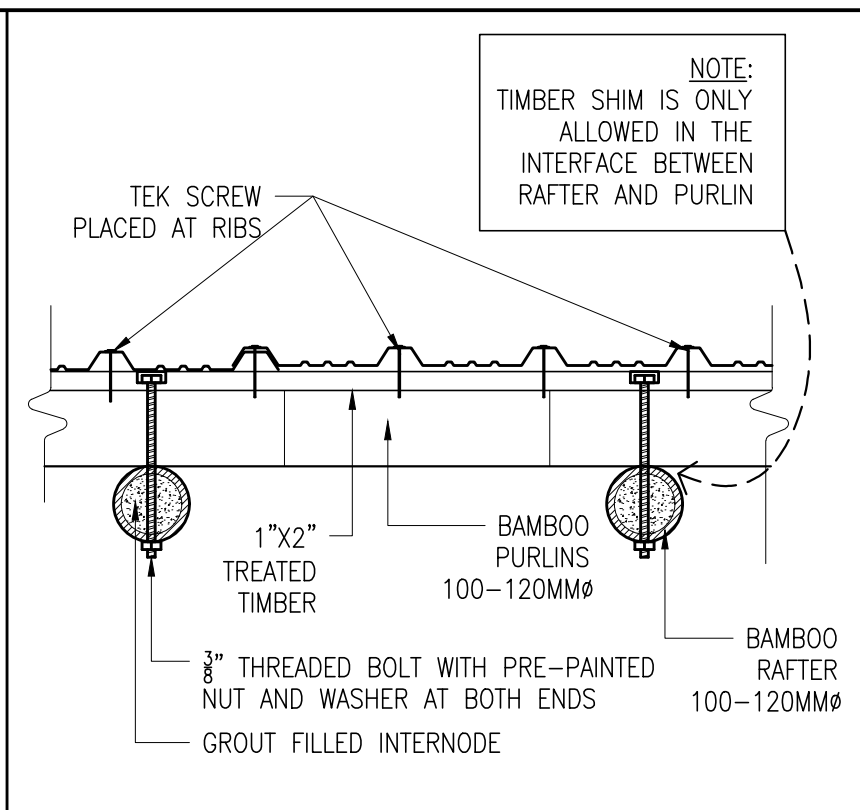
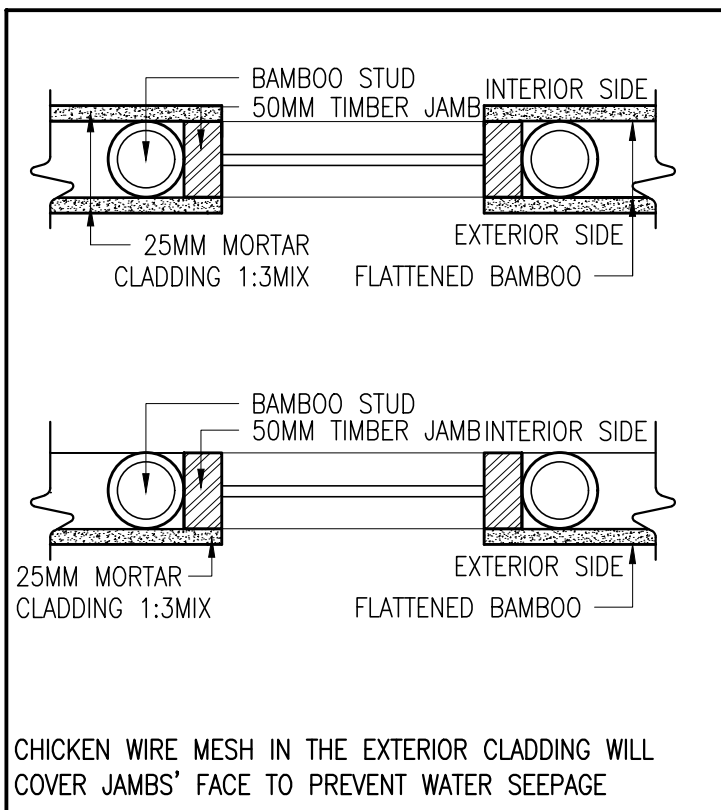
CLIENT/OWNER:
CAZANDRA OMEGA PANGANURON

PROJECT TITLE:
RISK RESILIENT HOUSING PROTOTYPE
LOCATION:
BRGY. BUCANA SASAHAN, NAIC, CAVITE

SHEET CONTENTS:
AS SHOWN

NO.	REVISIONS:	DATE:	DESIGNED BY:
-	-	-	-
			DRAFTED BY:
			E.M.D.
			CHECKED BY:
			L.F.L

DATE : 01-JUNE-26
PROCESS : FOR BUILDING PERMIT
SHEET NO.:
<b>S 05C</b>

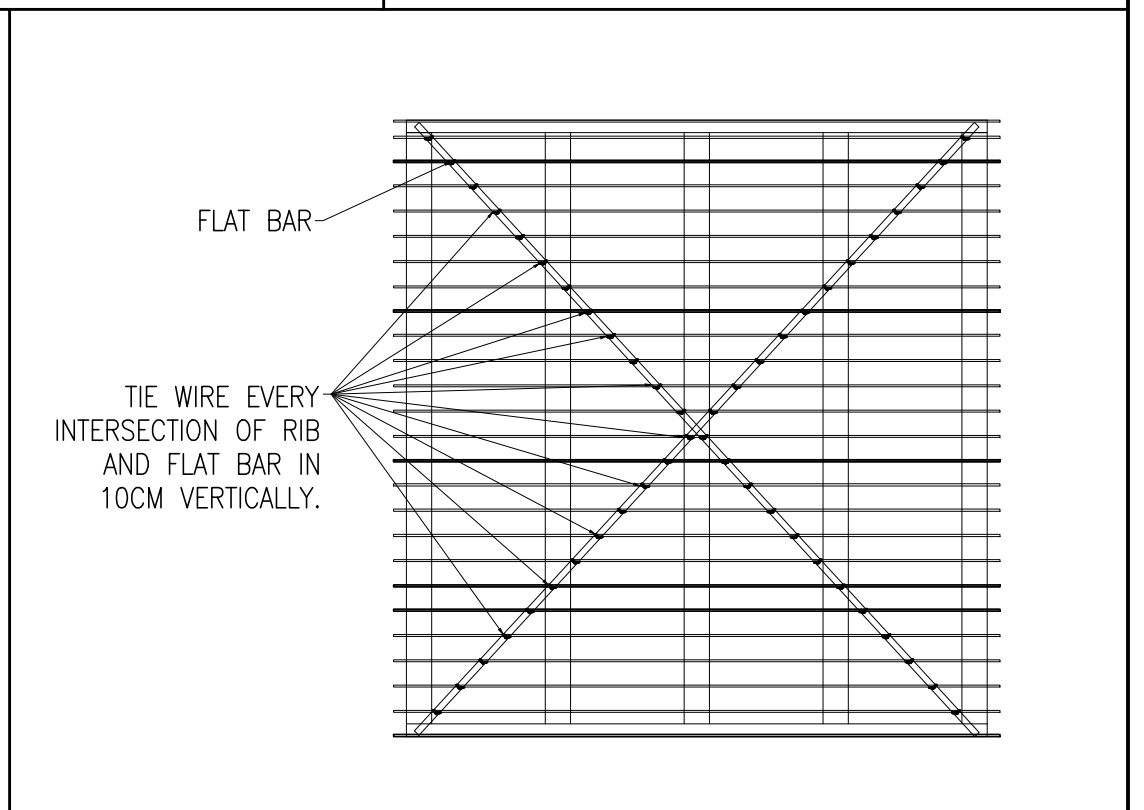
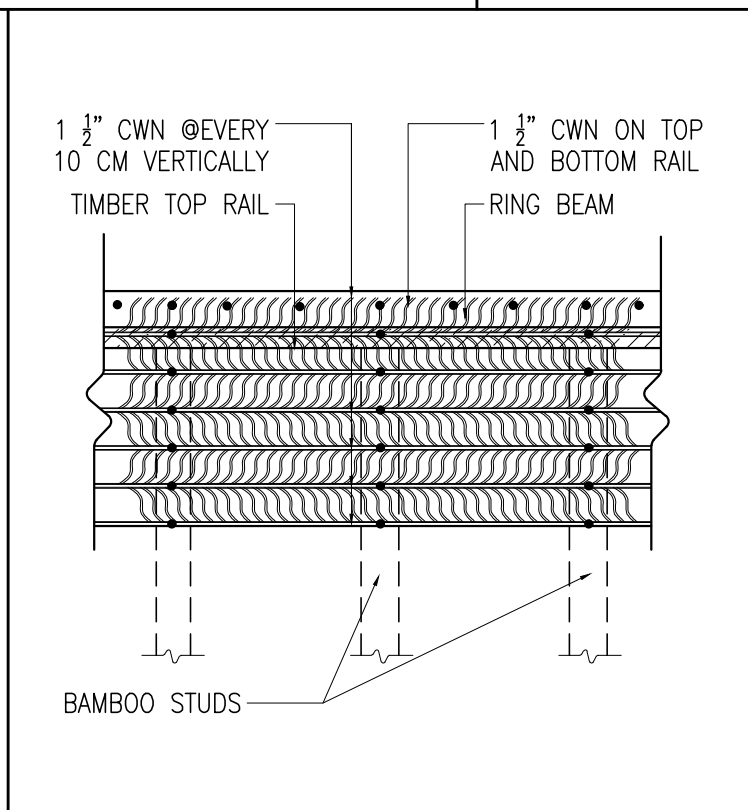
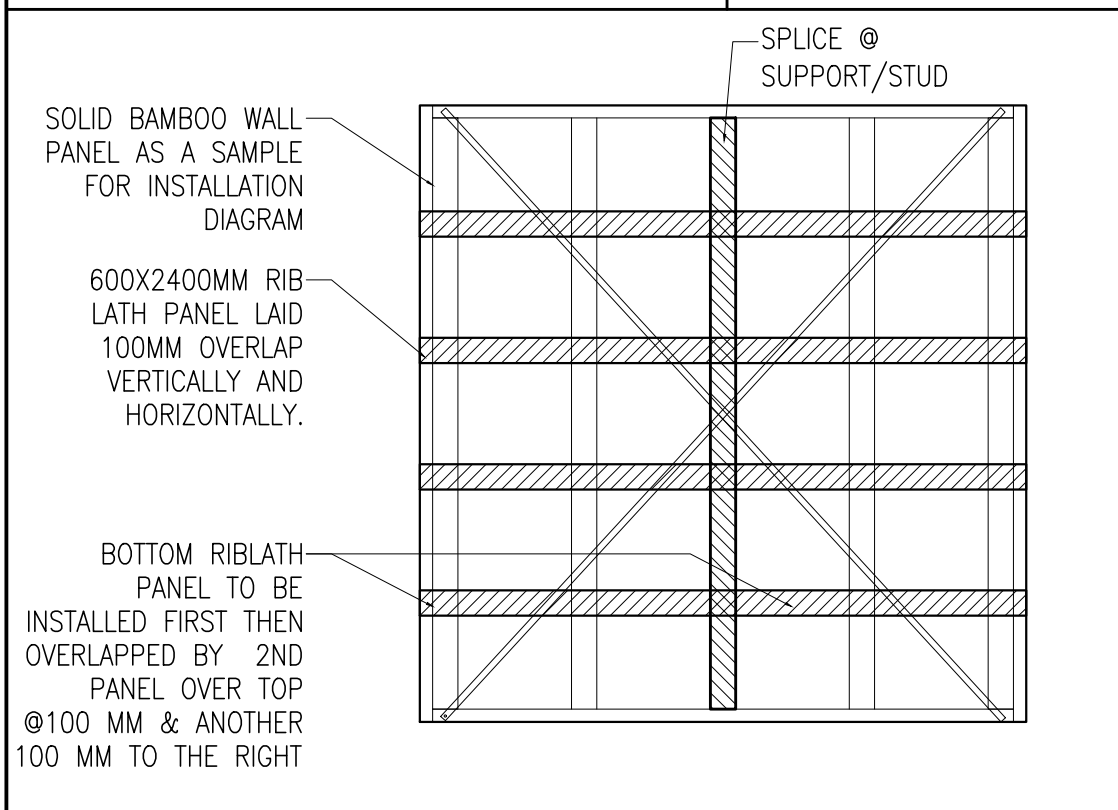


**3** CLADDING @ OPENING  
S-05D SCALE 1:10MM

**4** G.I. ROOF FIXING DETAIL  
S-05D SCALE 1:10MM

**5** BAMBOO PROFILE  
S-05D SCALE 1:10MM

**6** RIB LATH CLADDING DET.  
S-05D SCALE 1:10MM



**5** RIBLATH OVERLAPPING/SPLICING DETAILS  
S-05E SCALE 1:30MM

**6** BLOW-UP RIBLATH FIXING  
S-05E SCALE 1:20MM

**DET. 7** RIB LATH - FLATBAR CONNECTION  
S-05E SCALE 1:30MM

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	PRC NO. : 0116247 VALIDITY : 05/10/2026	P.T.R. NO. : 5701934 DATE : 01/02/2025	PLACE : MANDALUYONG TIN : 405-327-404	LOCATION: BRGY. BUCANA SASAHAN, NAIC, CAVITE	DRAFTED BY: E.M.D.	CHECKED BY: L.F.L.	PROCESS : FOR BUILDING PERMIT	SHEET NO.:	<b>S 05E</b>	