



A PERSPECTIVE
1 SCALE NDTS

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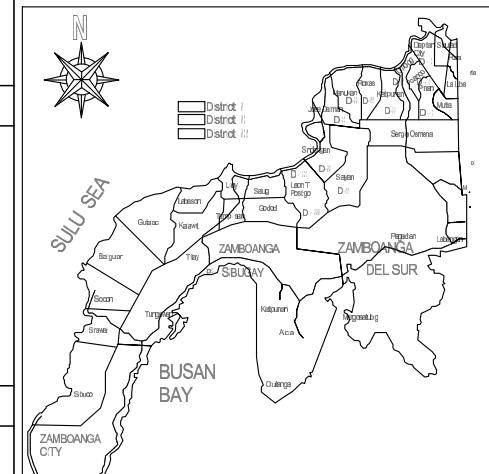
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MAP OF ZAMBOANGA DEL NORTE



Republic of the Philippines
PROVINCE OF ZAMBOANGA DEL NORTE
Municipality of Pres. M.A Roxas

OFFICE OF THE BUILDING OFFICIAL



ENGR. ESTERLITA T. ANDALAHAO
BUILDING OFFICIAL

ENGR. AILEEN A. CARIAGA
LINE & GRADE

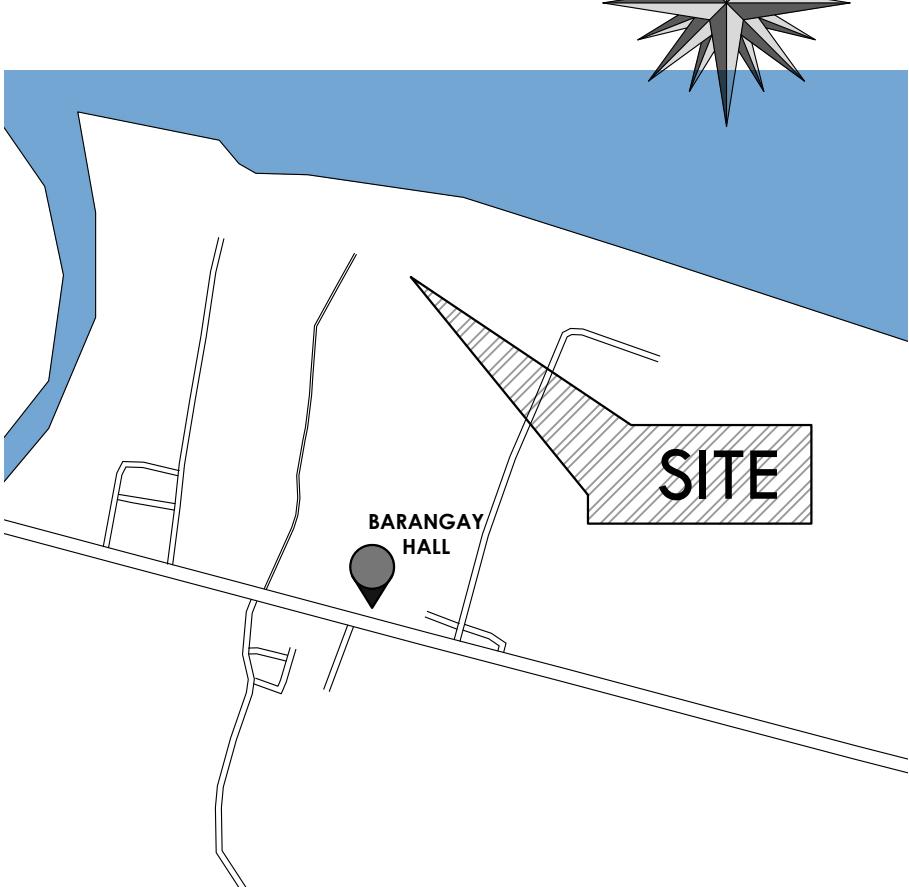
ENGR. AILEEN A. CARIAGA
LOCATIONAL/ZONING

ELECTRICAL

SANITARY

FIRE MARSHAL

HON. JIMEMA M. CHATO
BARANGAY CHAIRMAN



A LOCATION MAP
2 SCALE NDTS

APRIL JHON S. BECHAYDA
REGISTERED CIVIL ENGINEER

PRC NO: 0191647	PTR NO: 0337525
VALIDITY: 2026	VALIDITY: 2026
TIN: 691-450-220	ISSUED @: PRES. MA ROXAS

PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING

REGINA STACHER

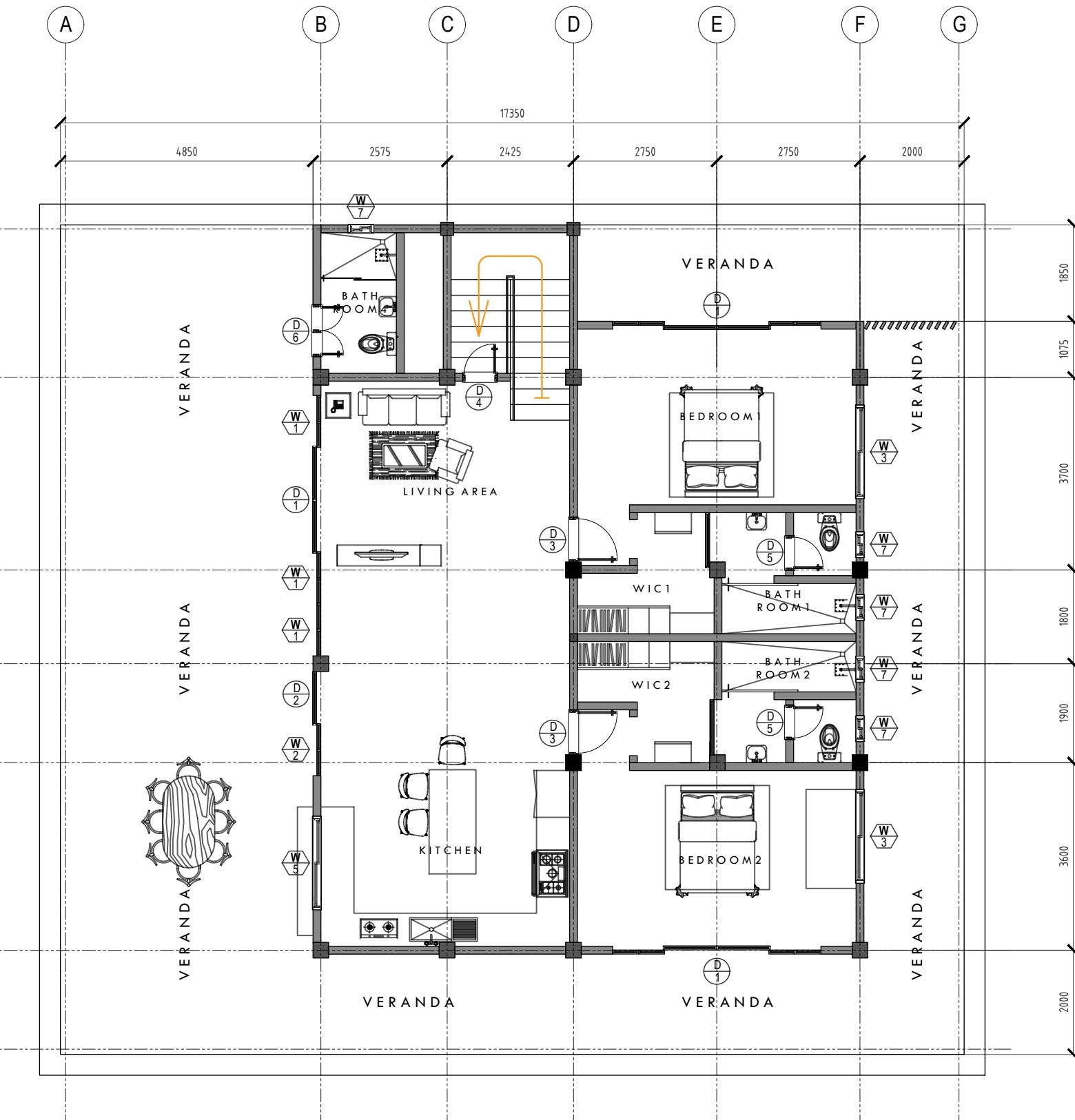
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AS SHOWN

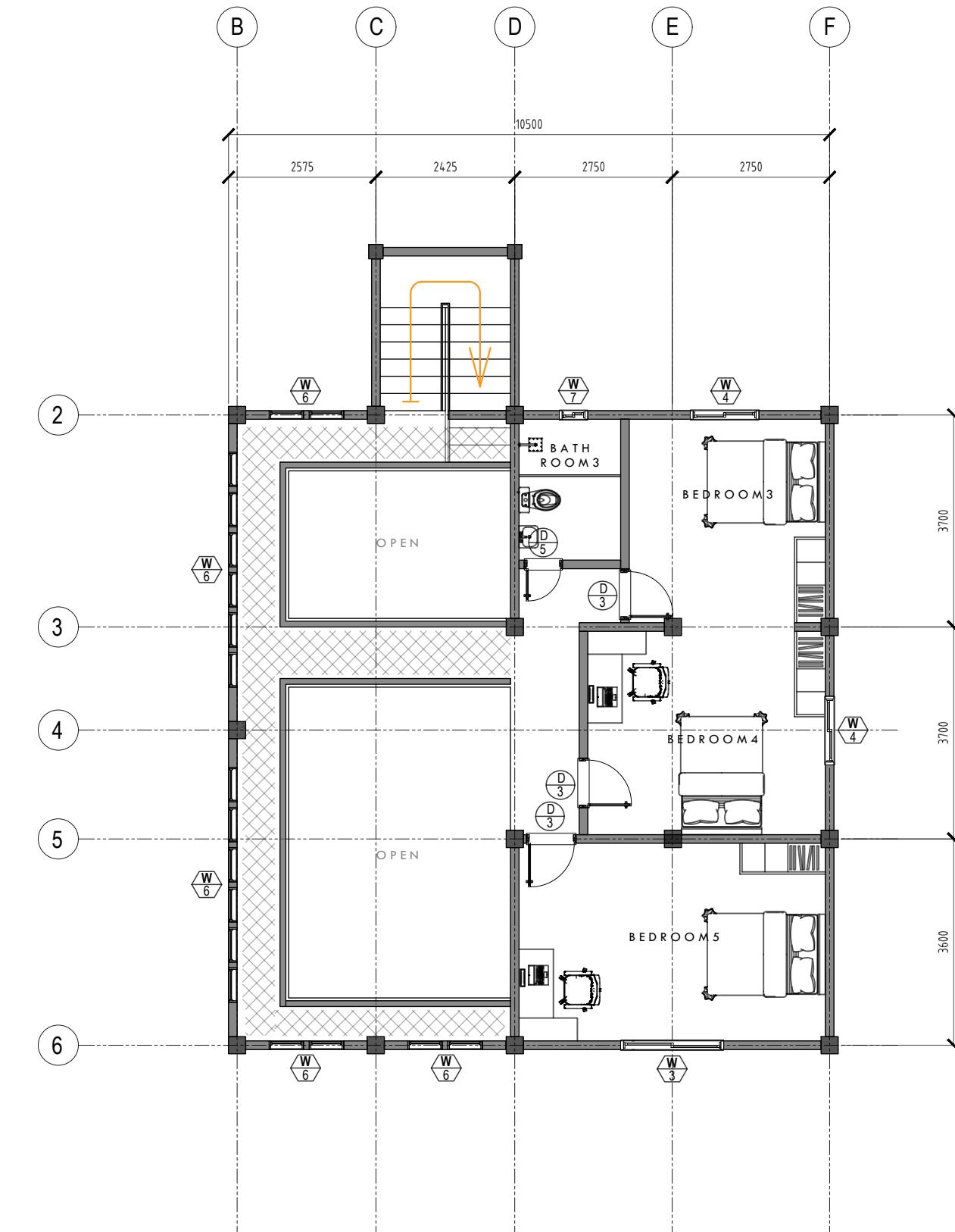
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REV 0 (02/13/25)

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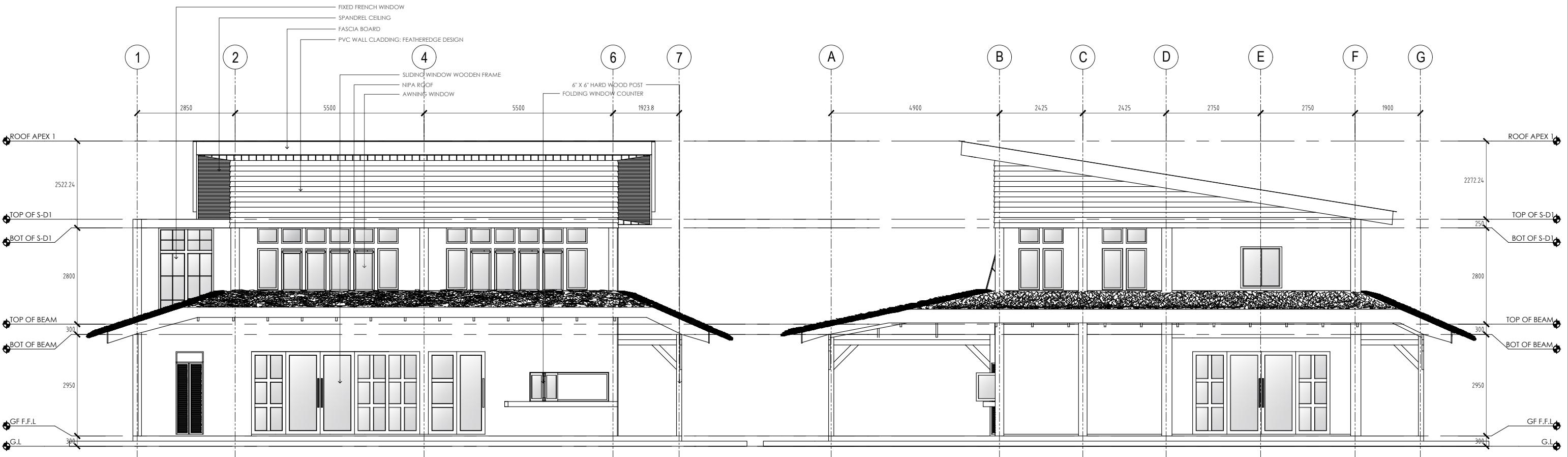


A GROUND FLOOR PLAN
1 SCALE
1:100



B SECOND FLOOR PLAN
2 SCALE
1:100

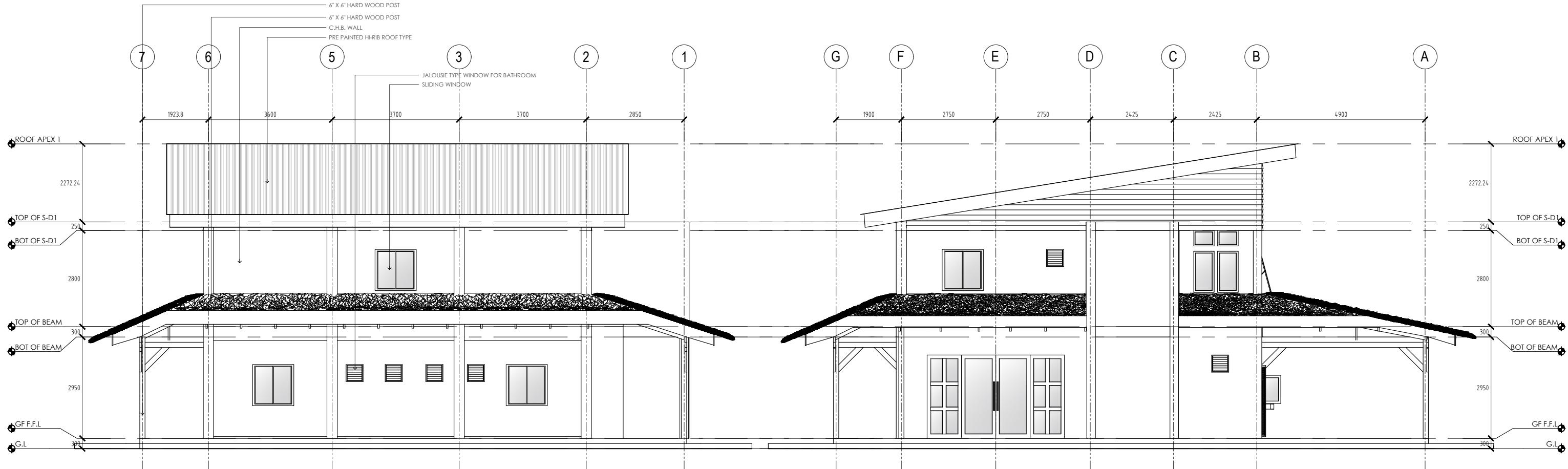
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	<small>PRC NO: 0191647 PTR NO: 0337525</small> <small>VALIDITY: 2026 VALIDITY: 2026</small> <small>TIN: 691-450-220 ISSUED @: PRES. MA ROXAS</small>	LOCATION: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN	ADDRESS: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN		REV 0 (02/13/25)



A FRONT VIEW ELEVATION
1 SCALE 1:100

A RIGHT VIEW ELEVATION
2 SCALE 1:100

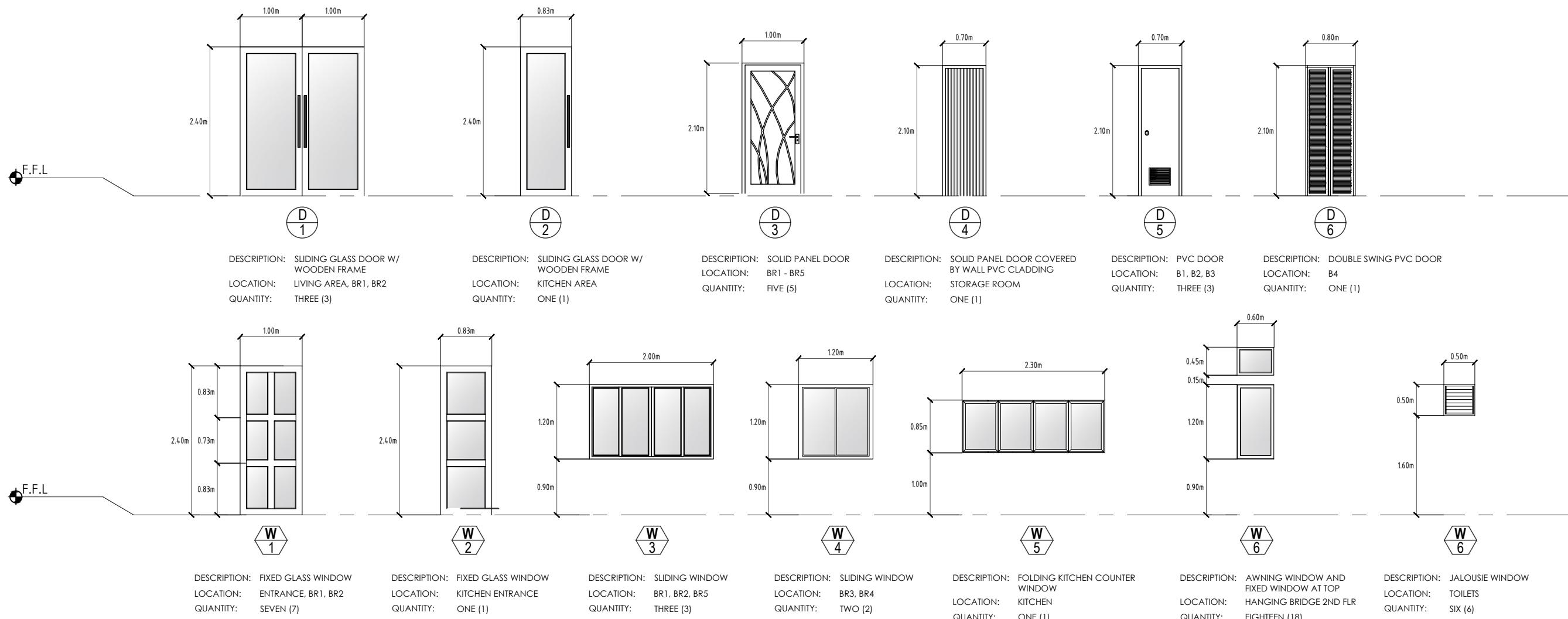
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PRC NO: 0191647	PTR NO: 0337525										
VALIDITY: 2026	VALIDITY: 2026										
TIN: 691-450-220	ISSUED @: PRES. MA ROXAS										



A REAR VIEW ELEVATION
1 SCALE 1:100

A LEFT VIEW ELEVATION
2 SCALE 1:100

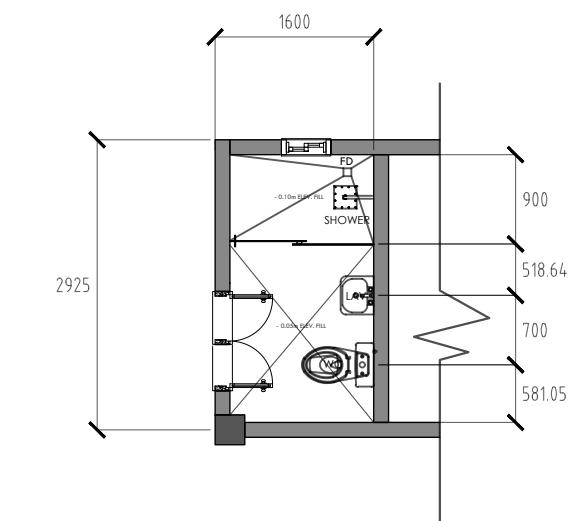
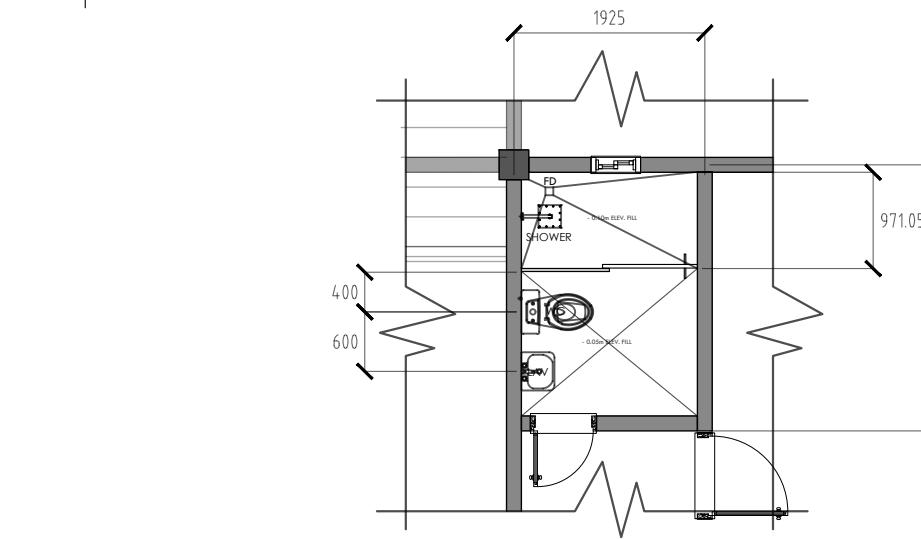
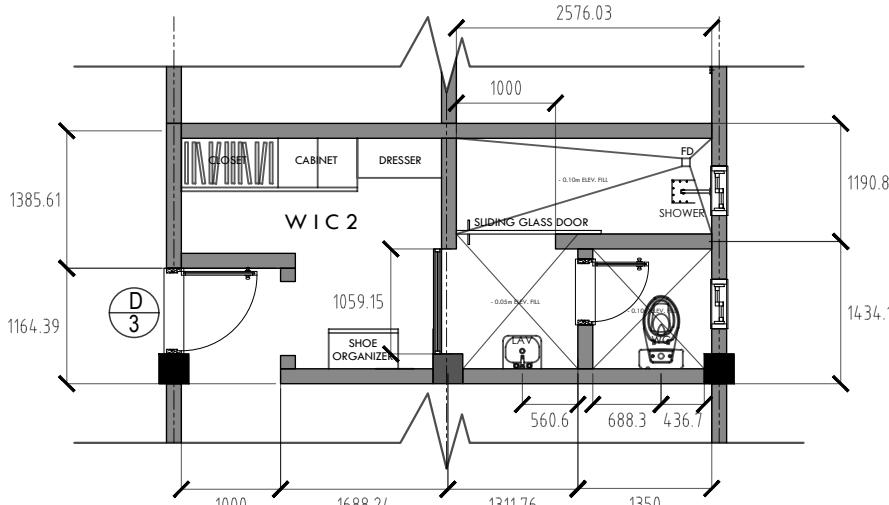
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TIN: 691-450-220	ISSUED @: PRES. MA ROXAS										



A SCHEDULE OF DOORS AND WINDOWS

1 SCALE

1:100



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PRC NO: 0191647	PTR NO: 0337525	LOCATION: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN	ADDRESS: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN	REV 0 (02/13/25)	
VALIDITY: 2026	VALIDITY: 2026				
TIN: 691-450-220	ISSUED @: PRES. MA ROXAS				

STRUCTURAL / CONSTRUCTION NOTES

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

CONSTRUCTION NOTES

CONSTRUCTION NOTES

A. GENERAL

- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS PIPE SLEEVES, ETC., TO BE EMBEDDED IN CONCRETE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING & BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.

B. CONCRETE AND REINFORCEMENT

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318).
- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS.

LOCATION	28 DAYS STRENGTH	MAX. SIZE AGGREGATE	MAX. SLUMP
CURBS & SLAB ON GRADE EXCEPT FOUND.	2500 PSI	1 IN. (25MM)	4 IN. (100MM)
FOUNDATION & RETAINING WALL	3000 PSI	3/4 IN. (19MM)	4 IN. (100MM)
ALL OTHERS INCLUDING BEAMS SUSPENDED SLABS & COLUMNS	3000 PSI	3/4 IN. (19MM)	4 IN. (100MM)

- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 40 FOR DIAMETER 10 & LARGER BARS
- IN GENERAL THE LATEST EDITION OF ACI-315, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR NOTED.
- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.

 - SUSPENDED SLABS —————— 3/4 IN. (19 MM)
 - SLAB ON GRADE —————— 1 1/2 IN. (38 MM)
 - WALLS ABOVE GRADE —————— 1 IN. (25 MM)
 - BEAM STIRRUPS AND COLUMN TIES —————— 1 1/2 IN. (38 MM)
 - WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS —————— 2 IN. (50 MM)
 - WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH —————— 3 IN. (75 MM)

- SPlices SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE 1 (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.
- ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- STRIPPING OF FORMS AND SHORES:

 - FOUNDATION —————— 24 HRS.
 - SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED —————— 8 DAYS
 - WALLS —————— 18 HRS.
 - BEAMS —————— 14 DAYS

C. MASONRY AND CONCRETE BLOCKS

- ALL NON-LOAD BEARING TYPE CONCRETE BLOCKS SHALL HAVE A UNIT WEIGHT NOT TO EXCEED 80 PCF. FOR LOAD BEARING TYPE, TYPE CONCRETE BLOCKS, A MINIMUM COMPRESSIVE STRENGTH OF 6.90 MPA SHALL BE DEVELOPED.
- PROVIDE 1-#16 VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS AND EACH SIDE OF OPENINGS.
- LINTEL BEAMS SHALL BEAR AT LEAST 8 INCHES (200 MM) ON EACH SIDE OF MASONRY WALL OPENING.
- WALL REINFORCEMENTS SHALL BE AS FOLLOWS.

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
8 IN. (200 MM)	#12 @ 400 MM	#10 @ 600 MM
6 IN. (150 MM)	#10 @ 400 MM	#10 @ 600 MM
4 IN. (100 MM)	#10 @ 400 MM	#10 @ 600 MM

- REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 30 BAR DIAMETERS WHERE SPLICE DOWELS FROM FOOTING OR SLABS SHALL EXTEND INTO THE BLOCK WALL A MINIMUM OF 30 BAR DIAMETERS, AND DOWELS TO MATCH.
- ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT (REFER TO SPECIFICATIONS).

D. FOUNDATION

- FOUNDATION IS DESIGNED FOR ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 3000 PSF.
- FOUNDATION SHALL REST ON NATURAL SOIL UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED & PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.

SPlicing AND ANCHORAGE LENGTH SCHEDULE

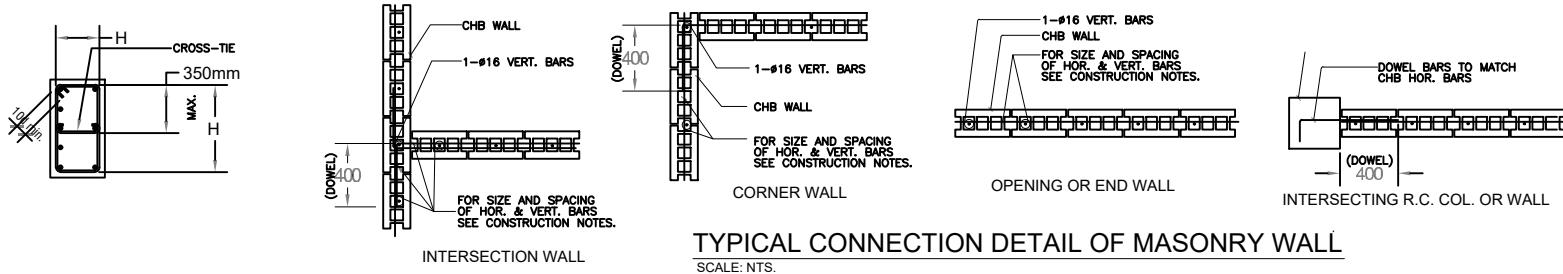
BAR SIZES (MM)	ANCHORAGE LENGTH (M)	STANDARD HOOK (M)			LAP SPLICES (M)			UNIT WEIGHT (KG/M)	MIN. LAP SPLICE LENGTH OF COL. REINFORCEMENT INDIVIDUAL BARS W/ TIES	MIN. LAP SPLICE LENGTH OF COL. REINFORCEMENT INDIVIDUAL BARS W/ SPIRAL	
		90 DEG.	180 DEG.	133 DEG.	TENSION BAR	BOT BAR	TOP BAR				
10MM	0.60	0.10	0.13	0.10	0.42	0.30	0.42	0.30	0.617	0.30	0.30
12MM	0.60	0.14	0.16	0.12	0.42	0.30	0.42	0.30	0.889	0.30	0.30
16MM	0.60	0.22	0.18	0.14	0.73	0.52	0.87	0.62	1.580	0.52	0.47
20MM	0.60	0.30	0.20	0.20	0.91	0.65	1.10	0.78	2.469	0.65	0.58
25MM	0.68	0.40	0.28	0.26	1.40	1.00	1.40	1.00	3.858	0.80	0.73
28MM	0.86	0.48	0.38		1.76	1.26	1.53	1.09	4.840	0.90	0.82
32MM	1.12	0.56	0.43		2.31	1.65	1.74	1.24	6.327	1.03	0.93
36MM	1.38	0.61	0.48		2.95	2.10	2.00	1.40	8.000	1.20	1.05

NOTES:

- ACI SECTION 124 STATES THAT:
DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE IN TENSION OR COMPRESSION SHALL BE THAT FOR THE INDIVIDUAL BAR, INCREASED 20 PERCENT FOR THREE-BAR BUNDLE AND 33 PERCENT FOR FOUR-BAR BUNDLE.
- FOR COLUMNS AT ANY LEVEL NO MORE THAN ALTERNATE BARS SHOULD BE SPLICED NOT MORE THAN 33 PERCENT OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH MINIMUM DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600MM.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 300MM DEPTH OF CONCRETE CAST BELOW THE REINFORCEMENT.
- AS MUCH AS POSSIBLE SPLICES SUBJECTED TO TENSILE STRESSES ARE DISCOURAGE. THESE SHOULD BE AVOIDED OR PROVIDED WITH STANDARD HOOKS.
- ASSUMED SPECIFIED COMPRESSIVE STRESS FOR CONCRETE f' = 3000 PSI

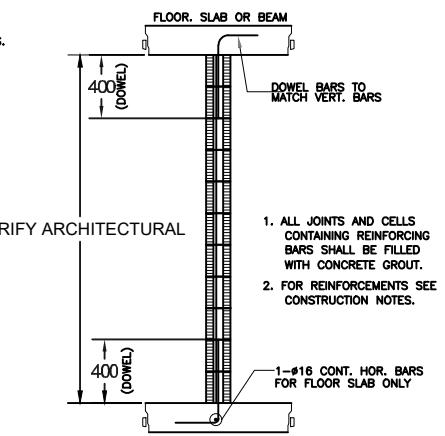
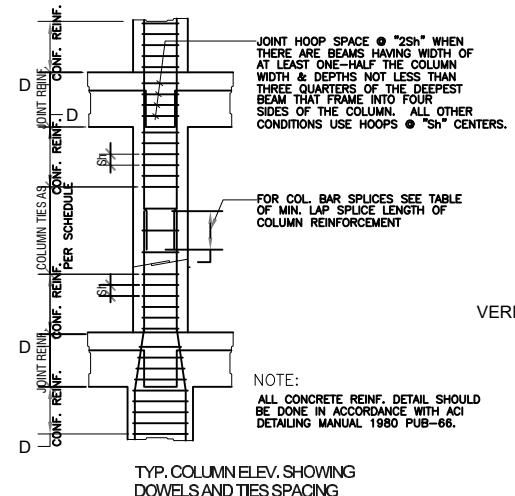
NOTES:

- YIELD STRESS OF HOOPS = 40 KSI
- D = USE MAXIMUM COLUMN DIMENSION, 1/6 CLEAR HEIGHT OR 18" (450mm) WHICHEVER IS GREATER.
- NUMBER OF HOOP TIES SAME AS PER COLUMN TIES SCHEDULE.
- ALL CONCRETE REINFORCEMENT DETAIL SHOULD BE DONE IN ACCORDANCE WITH ACI DETAILING MANUAL 1980 PUB SP-66



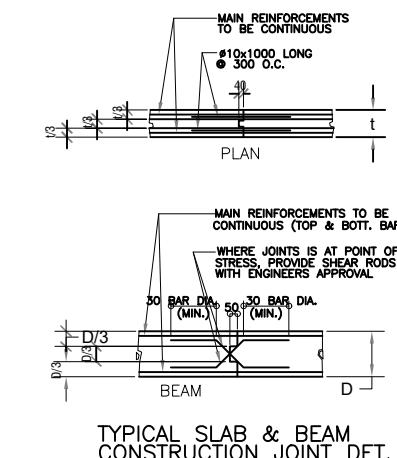
TYPICAL CONNECTION DETAIL OF MASONRY WALL

SCALE: NTS.



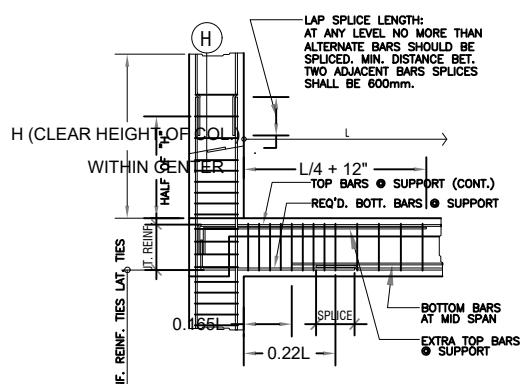
TYPICAL SECTION OF MASONRY PARTITION REINFORCEMENTS

SCALE: NTS.



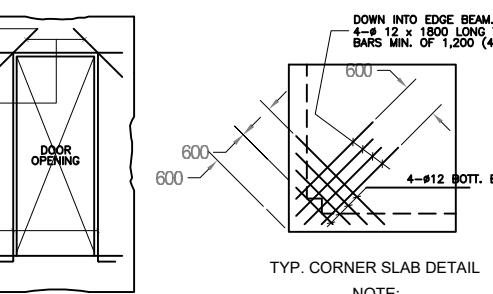
TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.

SCALE: NTS.



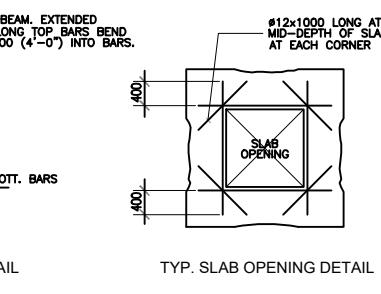
TYP. DETAIL OF COL. LAP SPLICE & EXT. GIRDER TO COL. CONNECT.

SCALE: NTS.



TYP. WINDOW OPENING DETAIL

SCALE: NTS.



TYP. DOOR OPENING DETAIL

SCALE: NTS.

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

NOTE: PROVIDE 3-#10 EXTRA STIRR. EACH SIDE OF SLEEVES

MAIN REINFORCEMENT

SLEEVES FOR UTILITY PIPES MAX. 5 D

PROVIDE 3-#10 EXTRA STIRR. EACH SIDE OF SLEEVES

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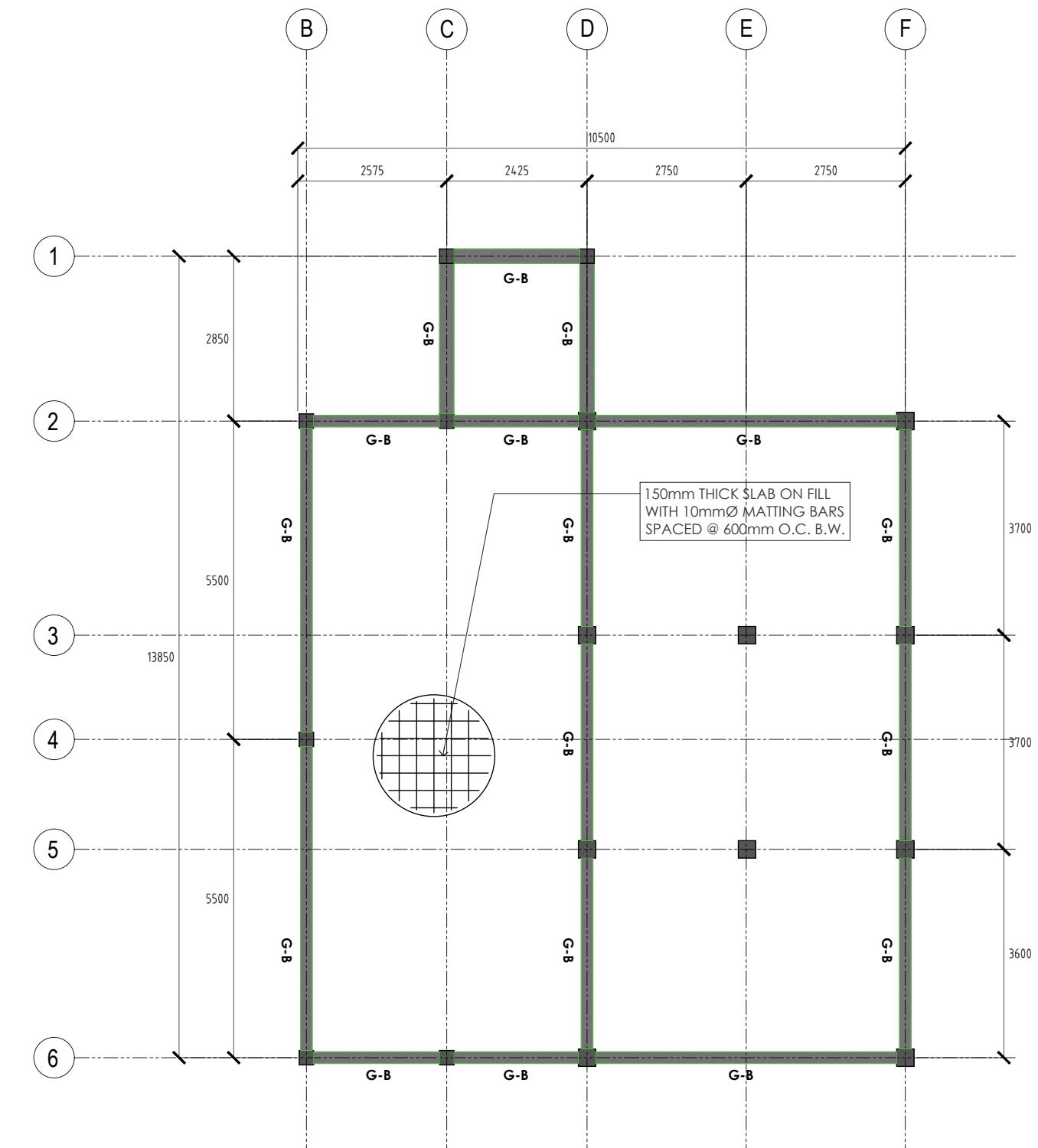
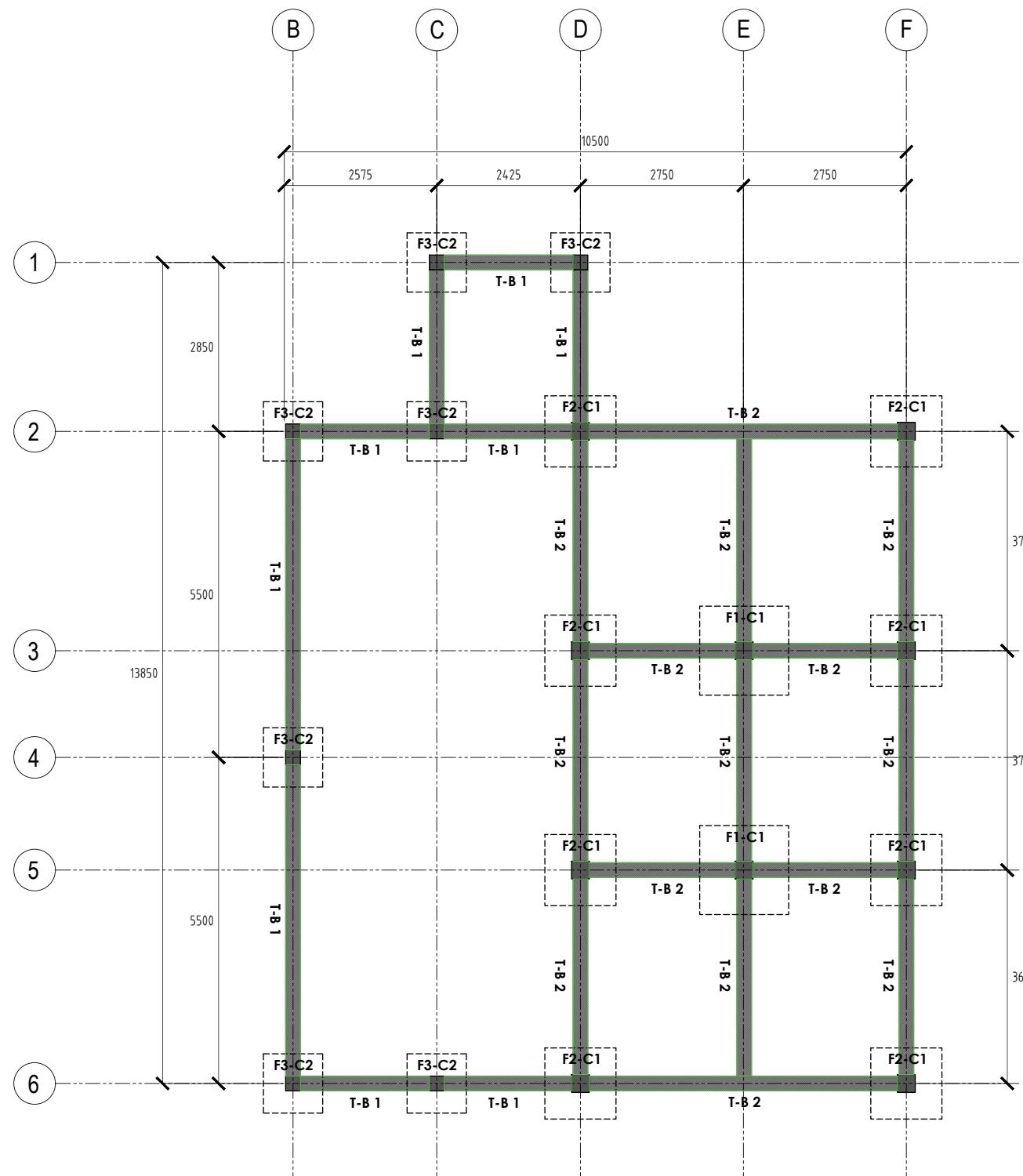
MAIN REINFORCEMENT

SLEEVES FOR UTILITY PIPES MAX. 5 D

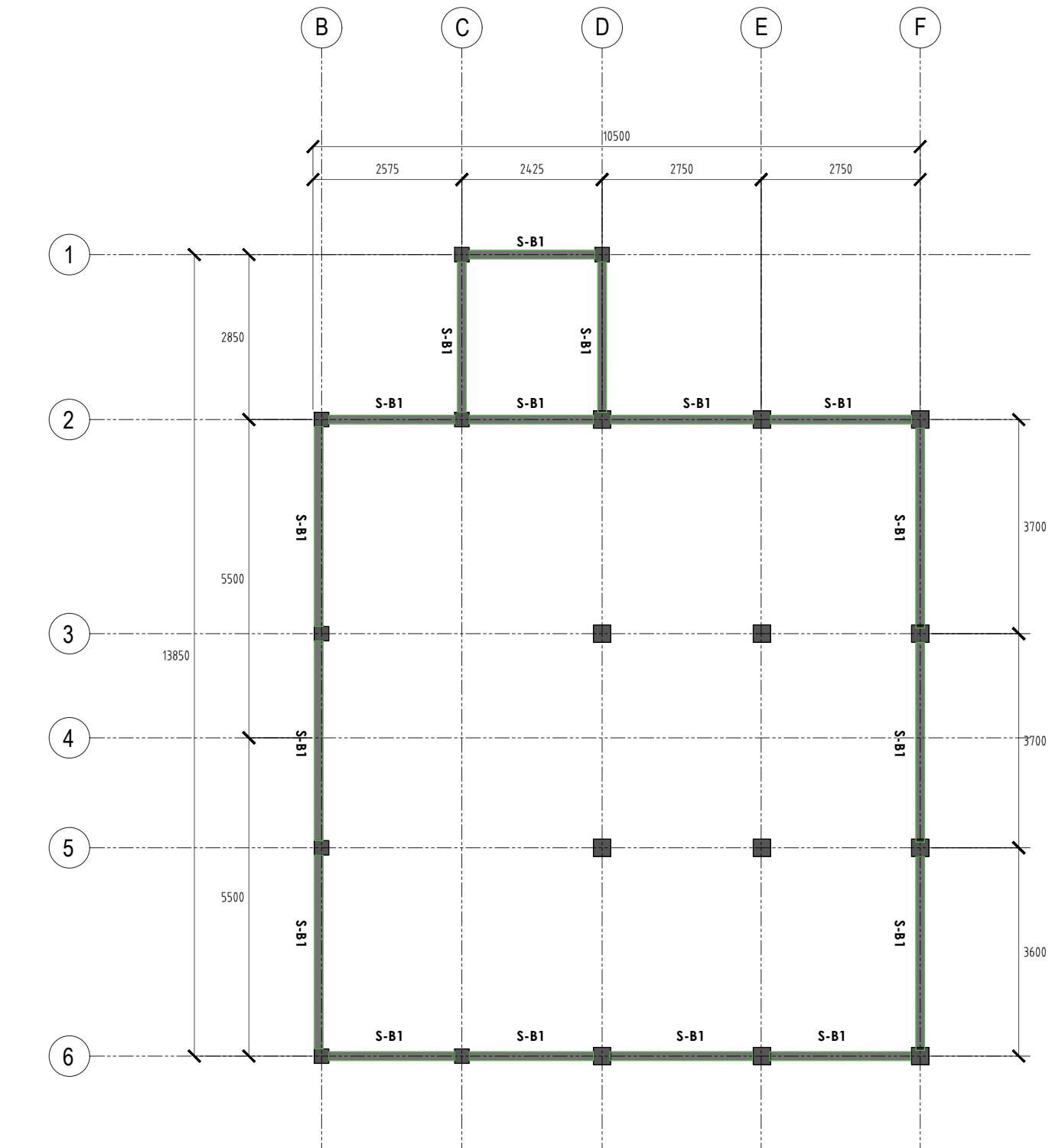
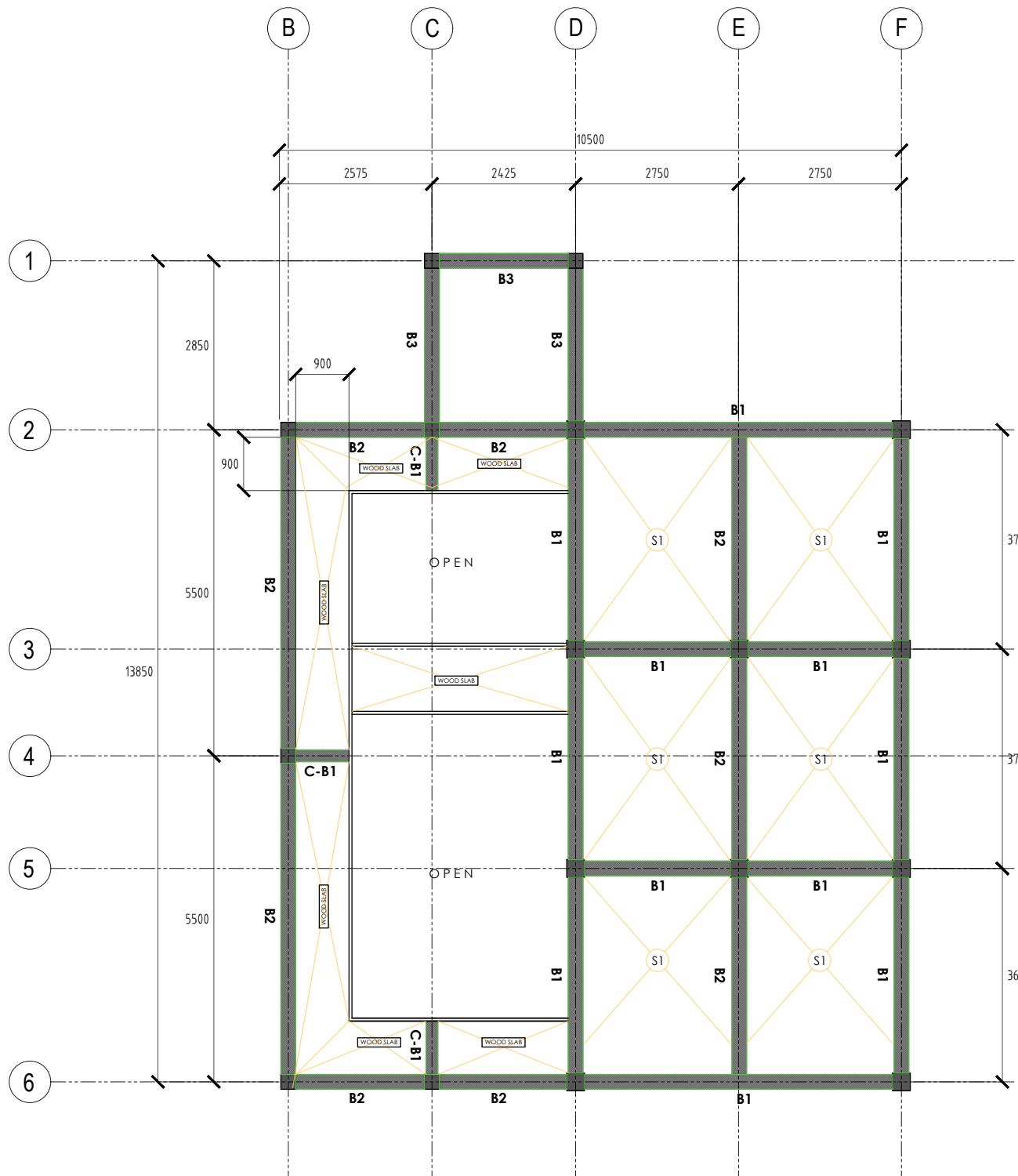
PROVIDE 3-#10 EXTRA STIRR. EACH SIDE OF SLEEVES

MAIN REINFORCEMENT

SLEEVES FOR UTILITY PIPES MAX. 5 D

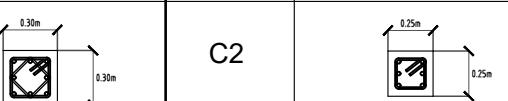
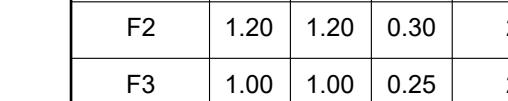
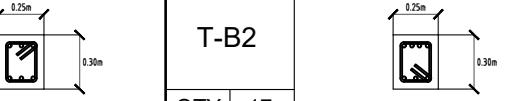
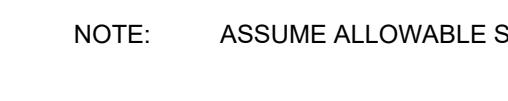
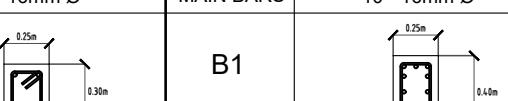
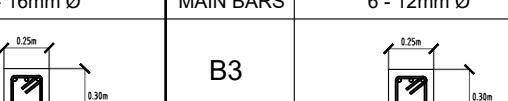
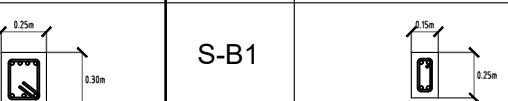


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	APRIL JHON S. BECHAYDA <small>REGISTERED CIVIL ENGINEER</small> <table border="1"> <tr> <td>PRC NO: 0191647</td> <td>PTR NO: 0337525</td> </tr> <tr> <td>VALIDITY: 2026</td> <td>VALIDITY: 2026</td> </tr> <tr> <td>TIN: 691-450-220</td> <td>ISSUED @: PRES. MA ROXAS</td> </tr> </table>	PRC NO: 0191647	PTR NO: 0337525	VALIDITY: 2026	VALIDITY: 2026	TIN: 691-450-220	ISSUED @: PRES. MA ROXAS	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	REGINA STACHER	AS SHOWN	S 2 / 6
PRC NO: 0191647	PTR NO: 0337525										
VALIDITY: 2026	VALIDITY: 2026										
TIN: 691-450-220	ISSUED @: PRES. MA ROXAS										



SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:						
	<u>APRIL JHON S. BECHAYDA</u> <small>REGISTERED CIVIL ENGINEER</small> <table border="1"> <tr> <td>PRC NO: 0191647</td> <td>PTR NO: 0337525</td> </tr> <tr> <td>VALIDITY: 2026</td> <td>VALIDITY: 2026</td> </tr> <tr> <td>TIN: 691-450-220</td> <td>ISSUED @: PRES. MA ROXAS</td> </tr> </table>	PRC NO: 0191647	PTR NO: 0337525	VALIDITY: 2026	VALIDITY: 2026	TIN: 691-450-220	ISSUED @: PRES. MA ROXAS	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	<u>REGINA STACHER</u>	AS SHOWN	(S) 3 / 6
PRC NO: 0191647	PTR NO: 0337525										
VALIDITY: 2026	VALIDITY: 2026										
TIN: 691-450-220	ISSUED @: PRES. MA ROXAS										

SCHEDULE OF COLUMNS AND BEAMS REINFORCEMENT

FC = 3,000 PSI	FY = 40,000 PSI	FC = 3,000 PSI	FY = 40,000 PSI
MARK	GROUND FLR - ROOF BEAM LVL	MARK	GROUND FLR - ROOF BEAM LVL
MAIN BARS	8 - 16mm Ø	MAIN BARS	6 - 16mm Ø
C1		C2	
QTY 12		QTY 9	
COLUMN SIZE	300mm x 300mm	COLUMN SIZE	250mm x 250mm
10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC	10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC
FC = 3,000 PSI	FY = 40,000 PSI	FC = 3,000 PSI	FY = 40,000 PSI
MARK	GROUND LVL	MARK	GROUND LVL
MAIN BARS	6 - 16mm Ø	MAIN BARS	6 - 16mm Ø
T-B1		T-B2	
QTY 13		QTY 17	
COLUMN SIZE	250mm x 300mm	COLUMN SIZE	250mm x 300mm
10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC	10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC
FC = 3,000 PSI	FY = 40,000 PSI	FC = 3,000 PSI	FY = 40,000 PSI
MARK	GRADE LINE LEVEL	MARK	2ND FLR BEAM LEVEL
MAIN BARS	6 - 16mm Ø	MAIN BARS	10 - 16mm Ø
G-B		B1	
QTY 20		QTY 17	
COLUMN SIZE	250mm x 250mm	COLUMN SIZE	250mm x 400mm
10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC	10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC
FC = 3,000 PSI	FY = 40,000 PSI	FC = 3,000 PSI	FY = 40,000 PSI
MARK	2ND FLR BEAM LEVEL	MARK	2ND FLR BEAM LEVEL
MAIN BARS	6 - 16mm Ø	MAIN BARS	6 - 12mm Ø
B2		B3	
QTY 7		QTY 5	
COLUMN SIZE	250mm x 300mm	COLUMN SIZE	250mm x 300mm
10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC	10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC
FC = 3,000 PSI	FY = 40,000 PSI	FC = 3,000 PSI	FY = 40,000 PSI
MARK	2ND FLR BEAM LEVEL	MARK	ROOF BEAM LEVEL
MAIN BARS	7 - 16mm Ø	MAIN BARS	4 - 12mm Ø
C-B1		S-B1	
QTY 2		QTY 7	
COLUMN SIZE	250mm x 300mm	COLUMN SIZE	150mm x 250mm
10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC	10mm Ø TIES	SPACED 5 @ 50mm, 10 @ 100mm & REST 170mm OC

SCHEDULE OF FOOTING REINFORCEMENT

FOOTING NUMBER	FOOTING SIZE (m)				BOTTOM BARS		QTY
	A	B	T	MIN. DEPTH	ALONG A	ALONG B	
F1	1.50	1.50	0.30	2.00	8 - 16mmØ	8 - 16mmØ	2
F2	1.20	1.20	0.30	2.00	7 - 16mmØ	7 - 16mmØ	8
F3	1.00	1.00	0.25	2.00	6 - 16mmØ	6 - 16mmØ	8

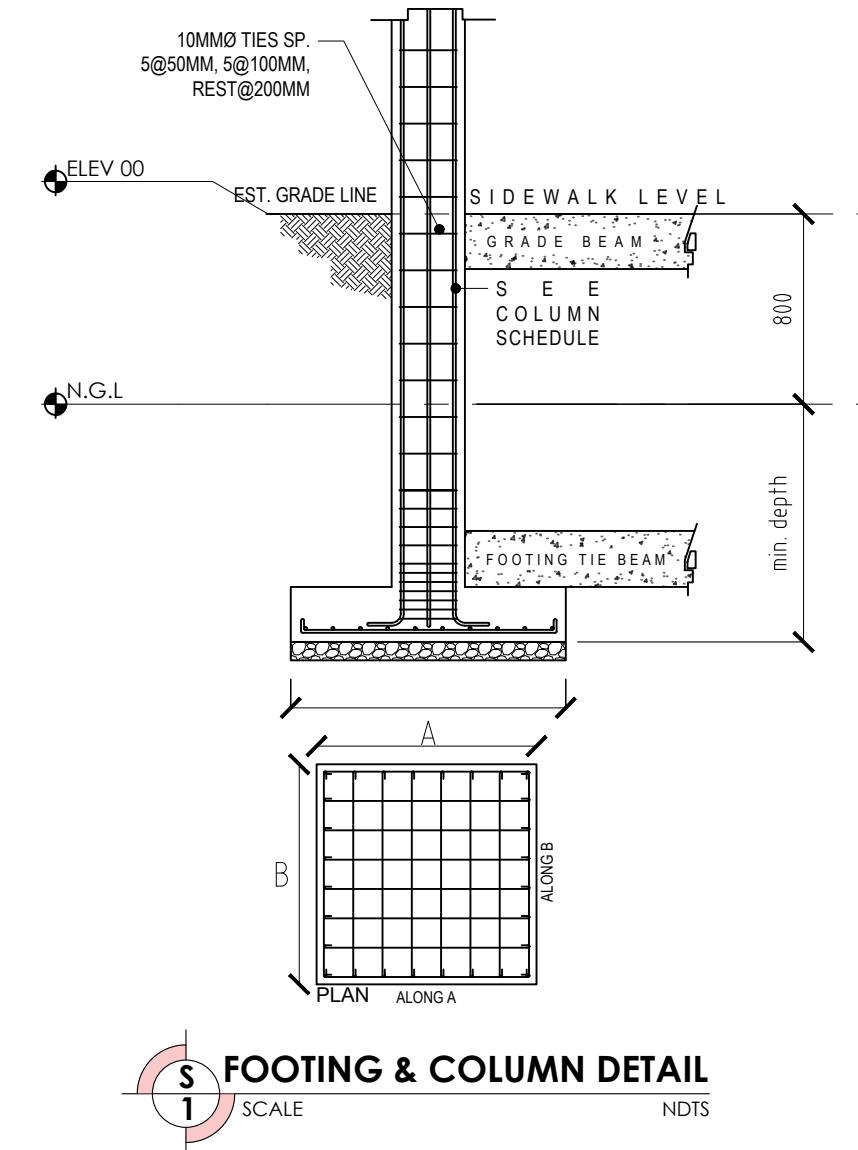
MATERIAL STRENGTH:

1. CONCRETE COMPRESSIVE STRENGTH.....3,000 PSI

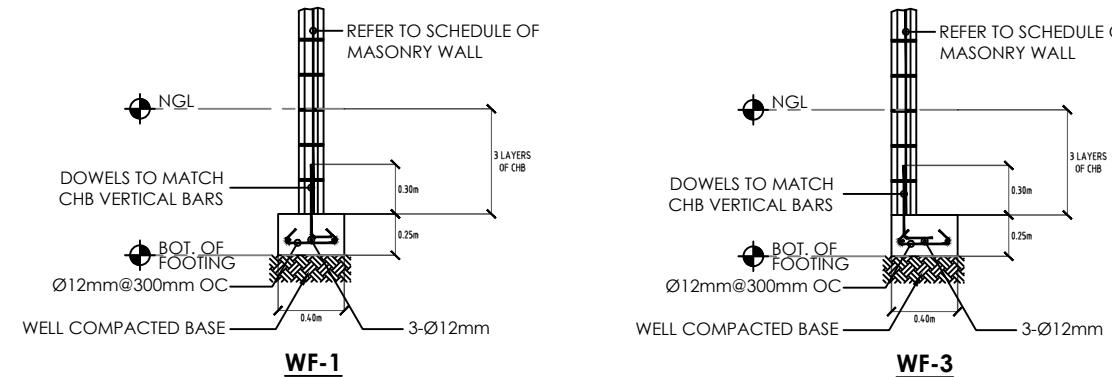
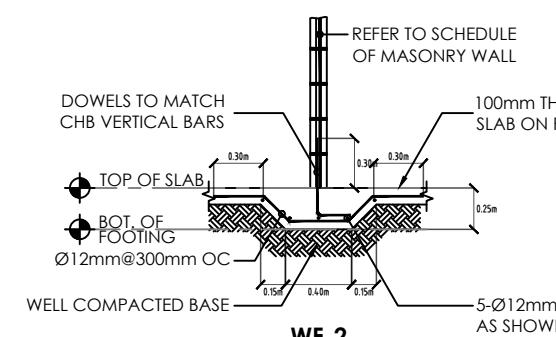
2. REBARS:

- Ø 12 & BELOW REBARS SHALL BE GRADE 33 (FY=33,000 PSI)
- Ø 16 & 20 REBARS SHALL BE GRADE 40 (FY=40,000 PSI)
- Ø 25 & ABOVE REBARS SHALL BE GRADE 40 (FY=40,000 PSI)

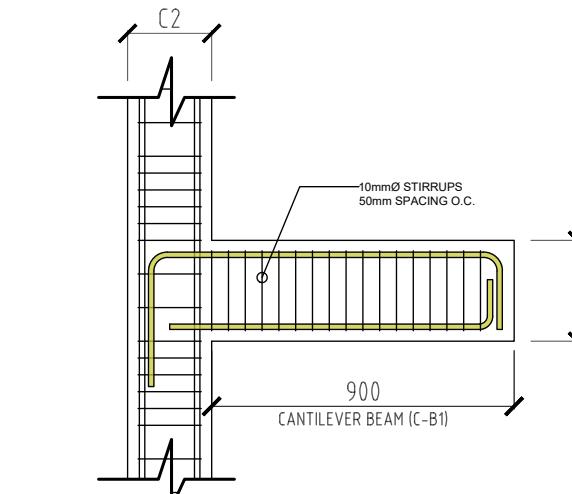
NOTE: ASSUME ALLOWABLE SOIL BEARING CAPACITY EQUAL TO 4,000 PSF



S 1 FOOTING & COLUMN DETAIL
SCALE: NDTs

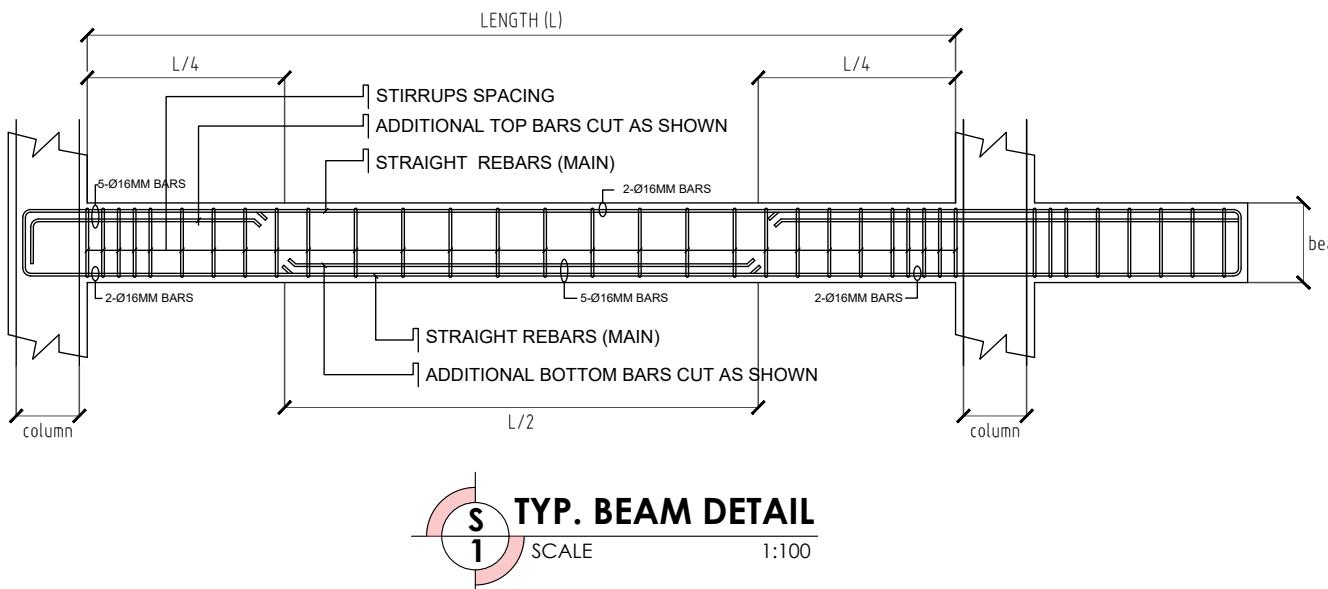


S 2 TYP. WALL FOOTING DETAIL
SCALE: NDTs

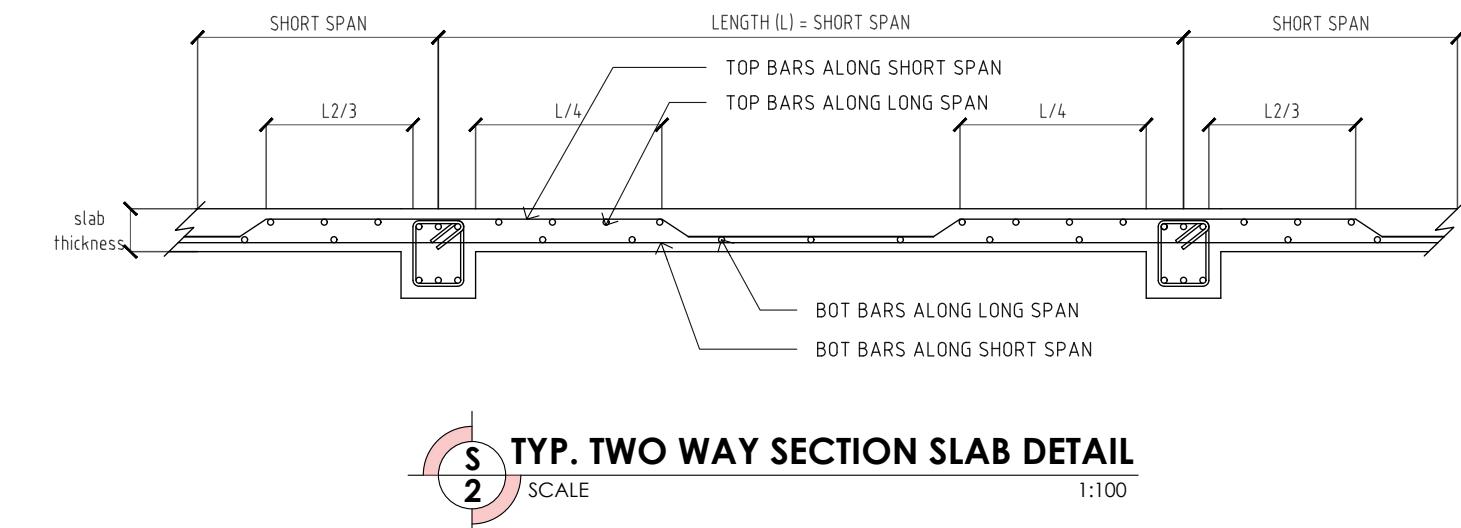


S 3 CANTILEVER BEAM DETAIL
SCALE: NDTs

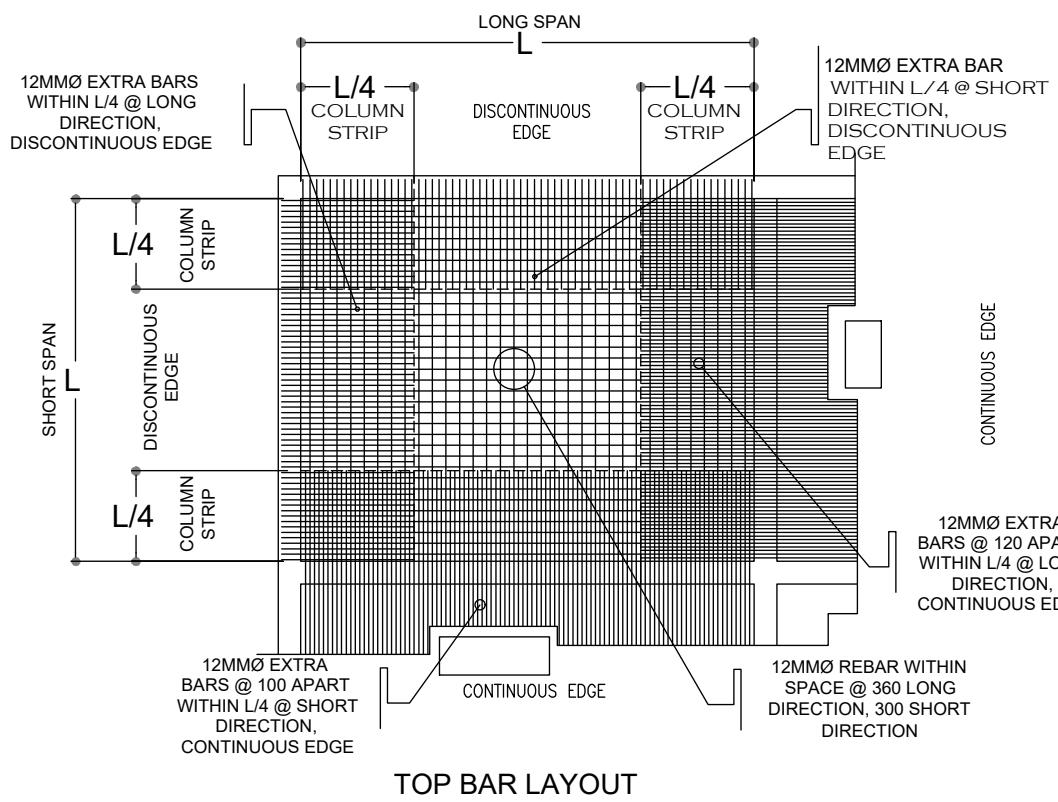
SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:	
 APRIL JHON S. BECHAYDA <small>REGISTERED CIVIL ENGINEER</small>	PRC NO: 0191647 VALIDITY: 2026 TIN: 691-450-220	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	REGINA STACHER	AS SHOWN	S 3 6	
						PTR NO: 0337525 VALIDITY: 2026 ISSUED @: PRES. MA ROXAS
						LOCATION: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN
						ADDRESS: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN



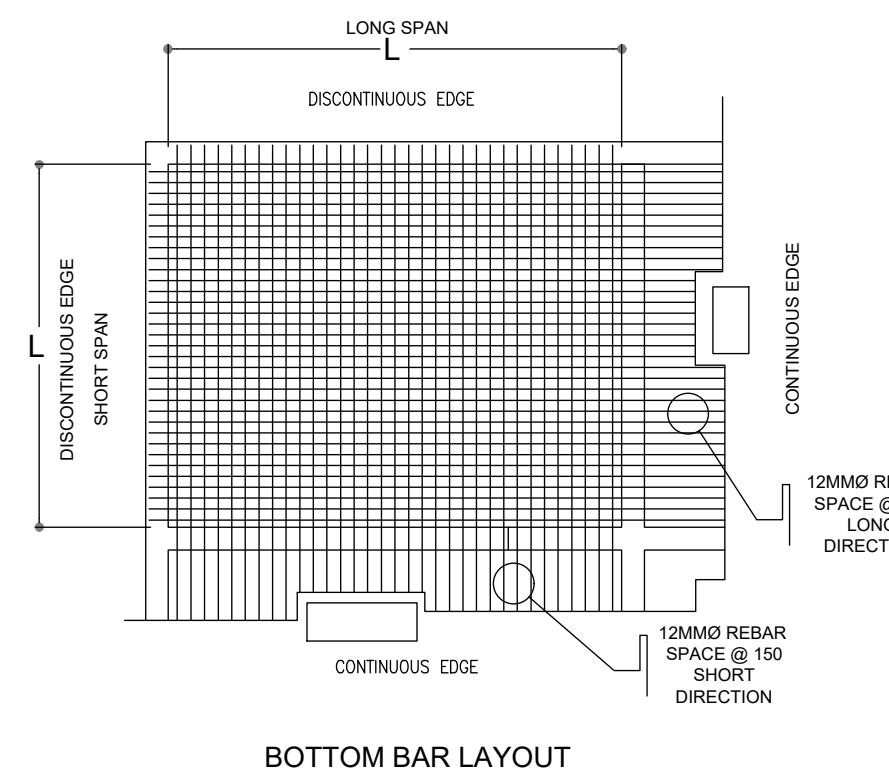
S 1 TYP. BEAM DETAIL SCALE 1:100



S 2 TYP. TWO WAY SECTION SLAB DETAIL
SCALE 1:100



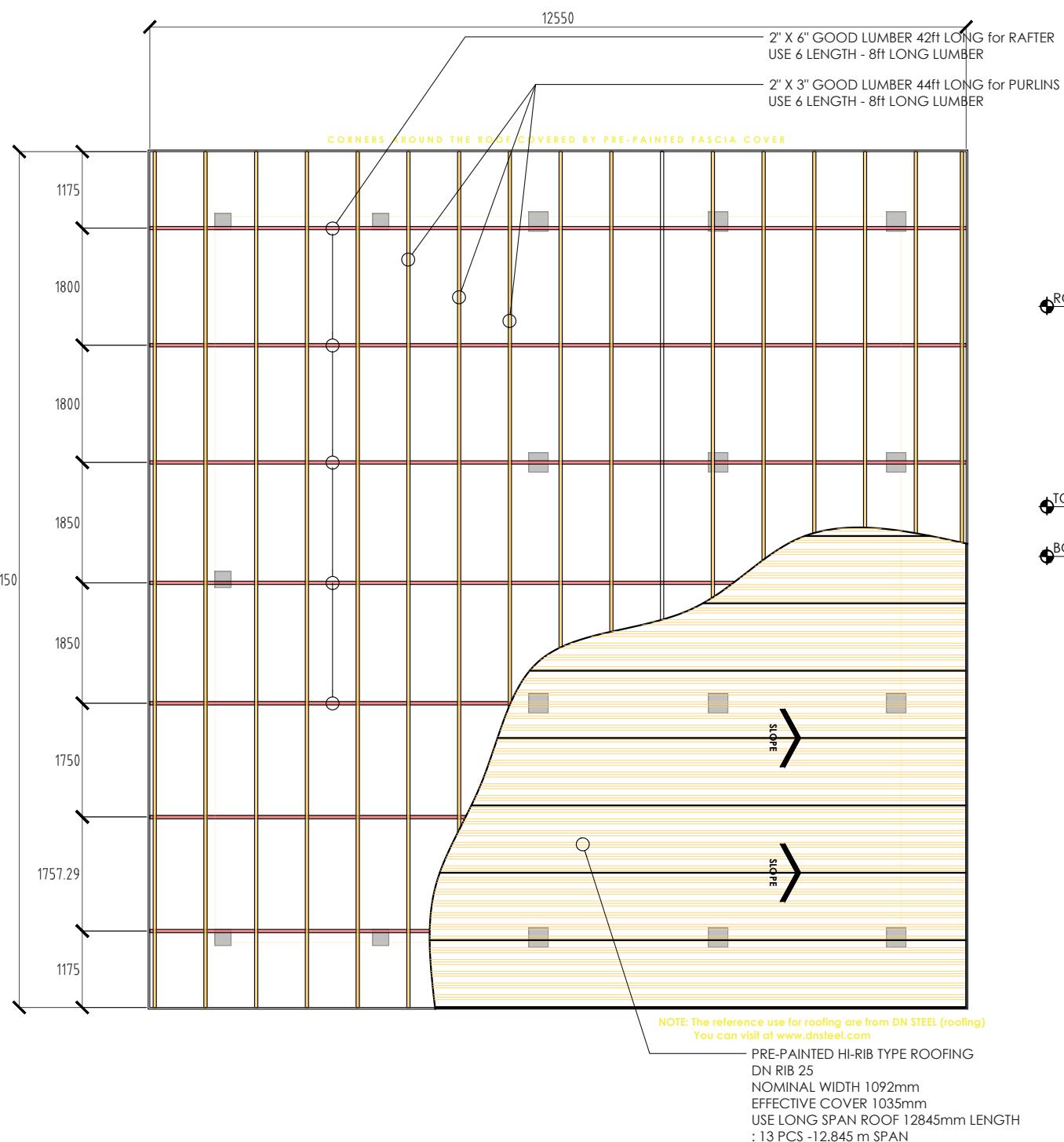
TYP. TWO WAY SLAB DETAIL



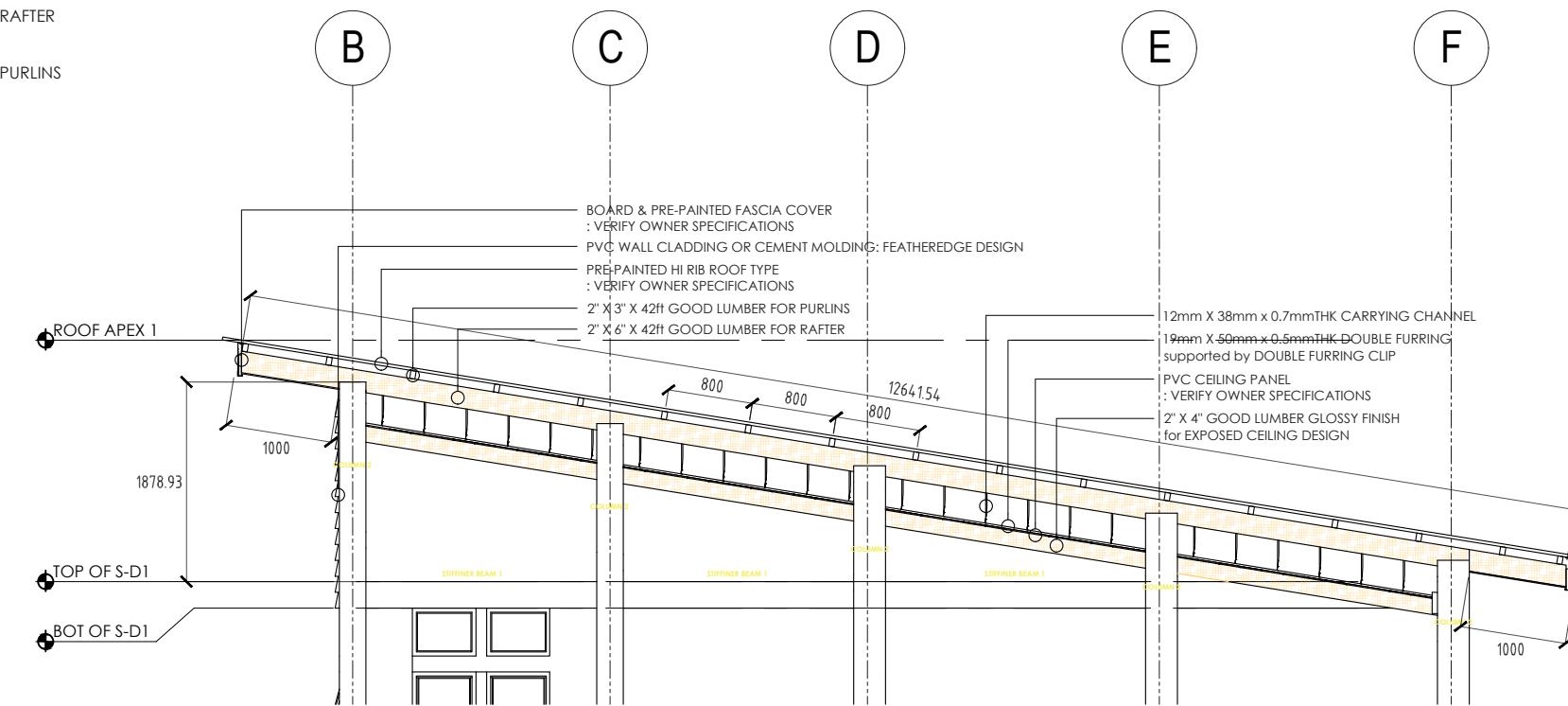
SCHEDULE OF TWO WAY SLAB

SLAB NO.	THICK (mm)	ALONG SHORT SPAN		ALONG LONG SPAN	
		TOP BARS	BOT BARS	TOP BARS	BOT BARS
S1	125	10mmØ @ 140mm	10mmØ @ 180mm	10mmØ @ 180mm	10mmØ @ 240mm
S2	100	10mmØ @ 130mm	10mmØ @ 240mm	10mmØ @ 180mm	10mmØ @ 280mm

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LOCATION: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN			ADDRESS: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN			
REV 0 (02/13/25)						

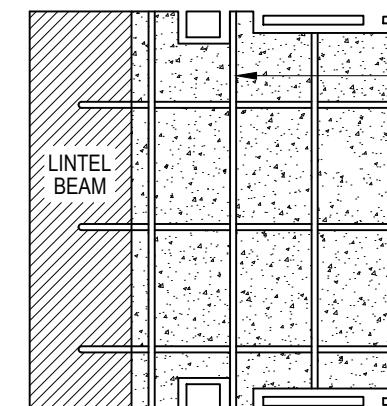


 ROOF FRAMING PLAN
1:100

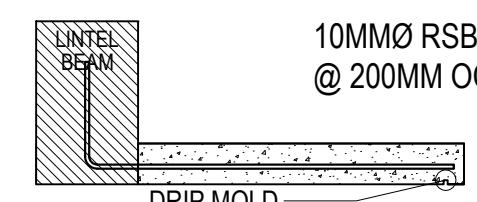


S Rafter Section Details

NDTS

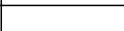


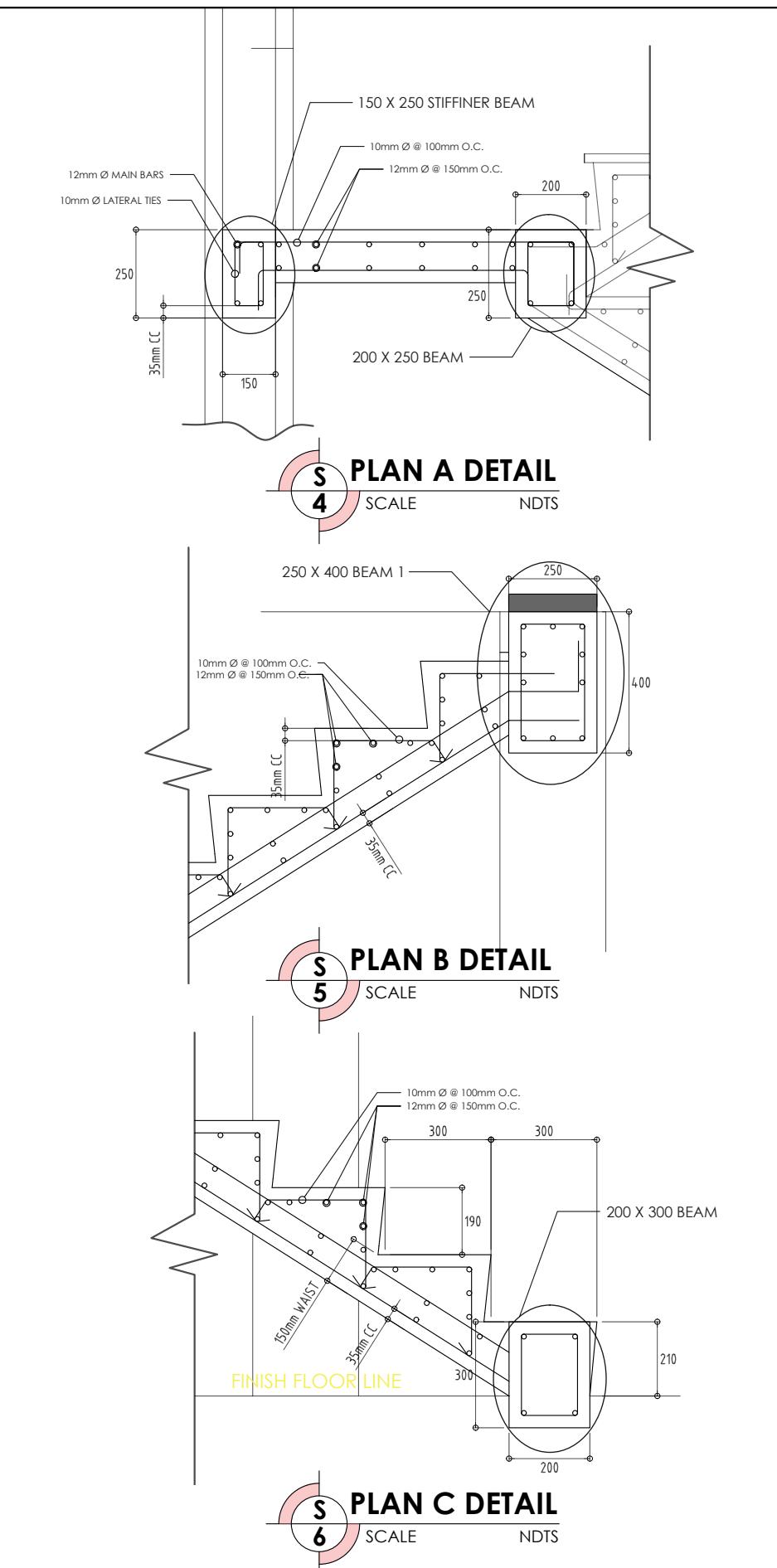
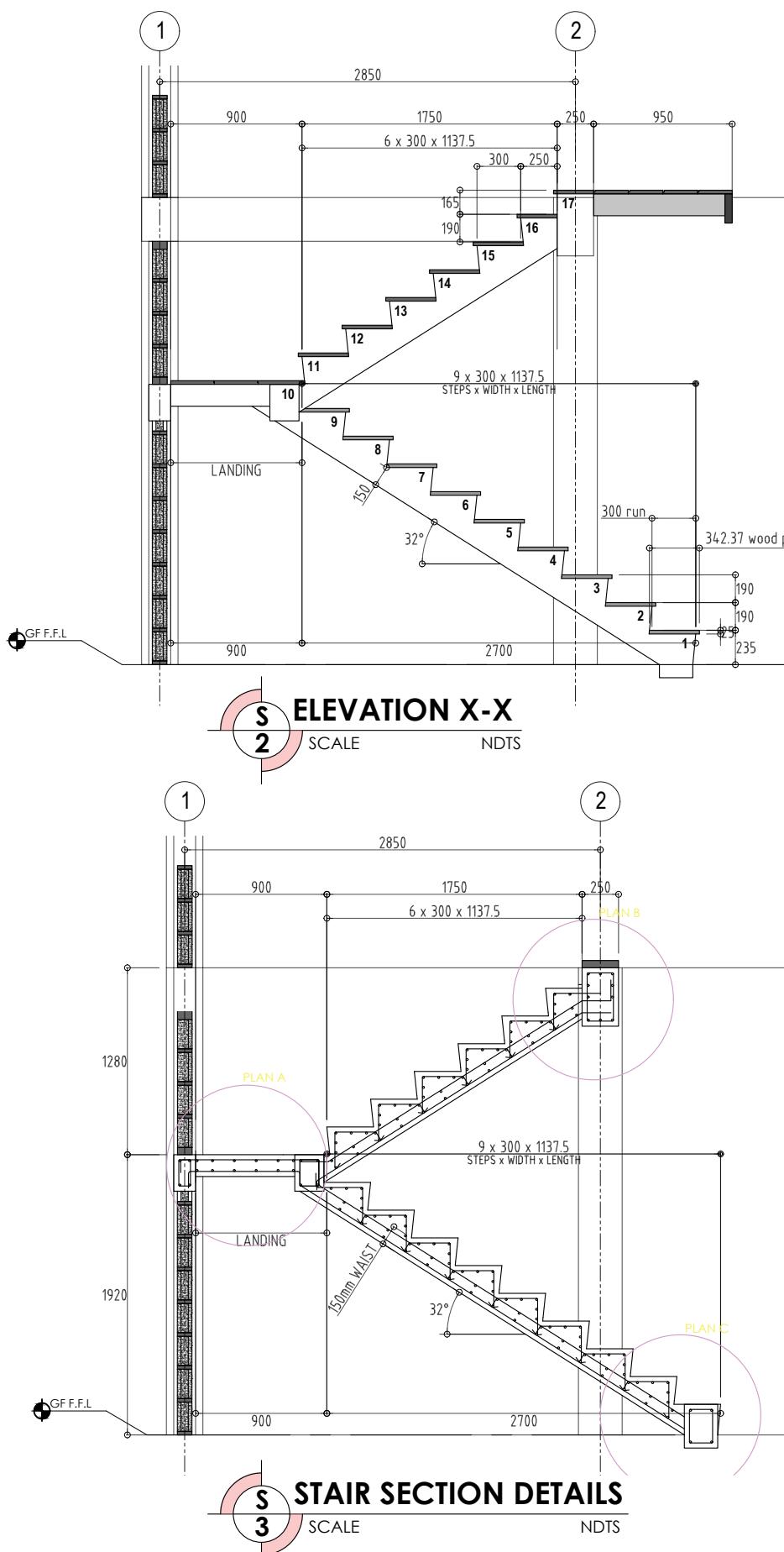
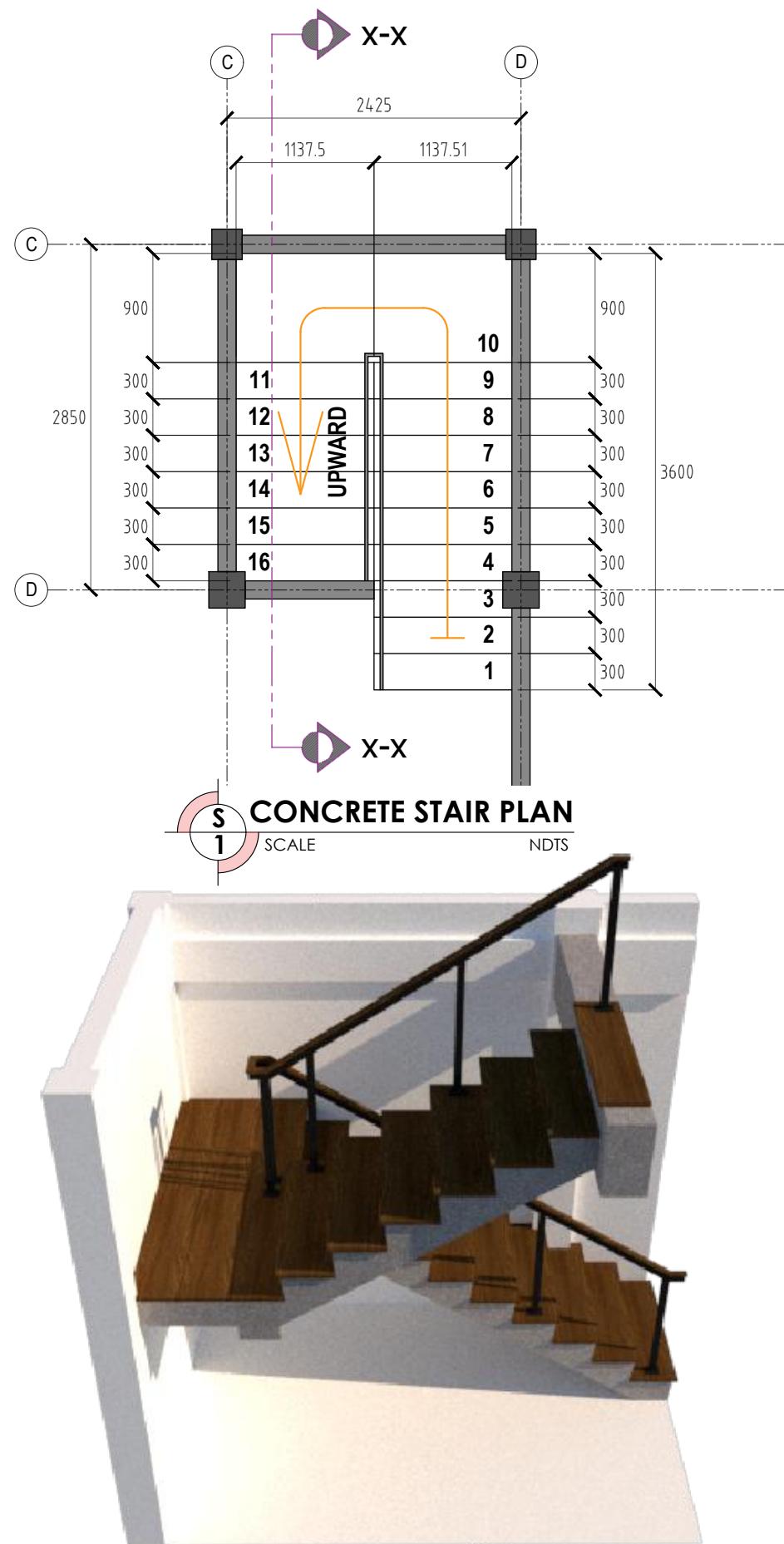
PLAN



SECTION



SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:						
	<p>APRIL JHON S. BECHAYDA REGISTERED CIVIL ENGINEER</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PRC NO: 0191647</td> <td style="width: 50%;">PTR NO: 0337525</td> </tr> <tr> <td>VALIDITY: 2026</td> <td>VALIDITY: 2026</td> </tr> <tr> <td>TIN: 691-450-220</td> <td>ISSUED @: PRES. M.A. ROXAS</td> </tr> </table>	PRC NO: 0191647	PTR NO: 0337525	VALIDITY: 2026	VALIDITY: 2026	TIN: 691-450-220	ISSUED @: PRES. M.A. ROXAS	<p>PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING</p>	<p>REGINA STACHER</p>	AS SHOWN	
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		LOCATION: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN	ADDRESS: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN		REV 0 (02/13/25)						



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ELECTRICAL GENERAL SPECIFICATIONS

ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE TO THE REQUIREMENTS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.

ELECTRICAL SERVICE SHALL BE 230 VOLTS, T-PHASE, 60 HZ.

ALL MATERIALS TO BE USED FOR THE WORK SHALL BE NEW AND CONFORM TO THE RELEVANT STANDARDS REQUIRED.

ALL WIRES AND CABLES SHALL BE 98% CONDUCTIVITY COPPER, SOFT DRAW AND ANNEALED. ALL WIRE SIZE 3.5mm² THHN/THW & LARGER SHALL BE STRANDED COPPER. ALL WIRES SHALL BE COLOR CODED EASY IDENTIFICATION.

ALL CONDUITS FOR INTERIOR SYSTEMS SHALL EMPLOY RIGID PVC UNLESS OTHERWISE STATED IN THE PLAN. NO CONDUIT IN ANY SYSTEM SHALL BE SMALLER THAN 20mm dia. SIZE NOR SHALL HAVE NO MORE THAN FOUR BENDS IN ANY RUN.

ALL METALLIC CONDUITS, CABINETS AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED BY MEANS OF COPPER STRAPS.

ALL MATERIALS & EQUIPMENT TO BE EMPLOYED SHALL BE OF THE APPROVED TYPE FOR LOCATION AND PURPOSE.

ALL LIGHTING FIXTURES SHALL BE SURFACE MOUNTED, UNLESS OTHERWISE STATED IN THE PLANS & DRAWINGS.

ALL SPECIAL PURPOSE OUTLETS SHALL HAVE AMPERE RATINGS OF NOT LESS THAN THEIR CIRCUIT AMPERE RATINGS.

MOUNTING HEIGHTS MEASURED FROM FLOOR FINISH TO CENTER LINE OF THE DEVICES/EQUIPMENT SHALL BE AS FOLLOWS:

SWITCHES	1370 mm	PANELBOARDS	15000 mm
CON. OUTLET	400 mm	KWH METER	2000 mm

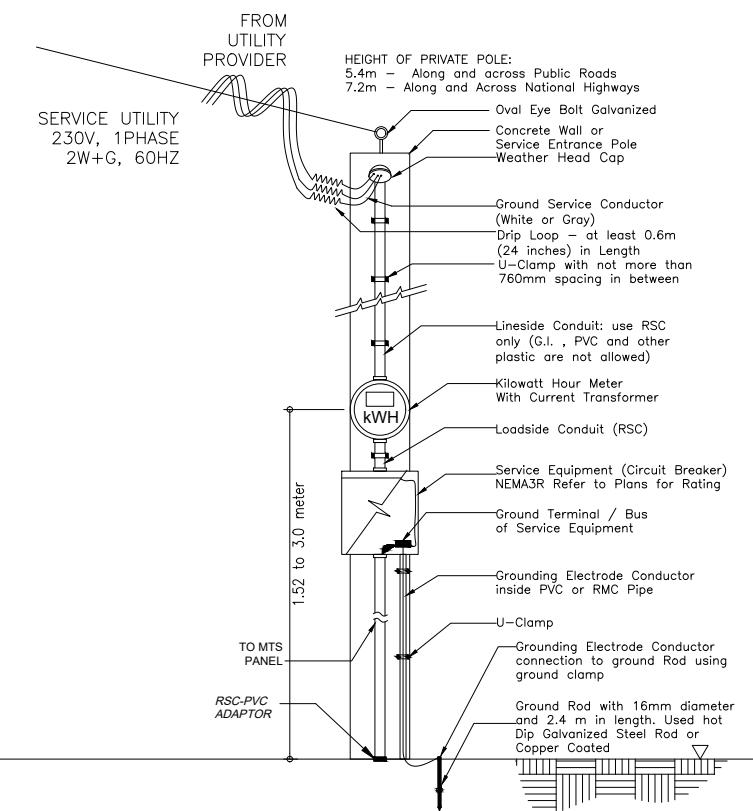
SPLICES & TAPS SHALL BE MADE ONLY IN JUNCTION OR OUTLET BOXES.

CONDUITS FOR UNDERGROUND OUTDOOR INSTALLATIONS SHALL SET AS A MINIMUM OF 600 mm BELOW GROUND. ALL CONDUIT RUN SHALL HAVE A MINIMUM OF 75 mm THK. CONCRETE ENVELOPE.

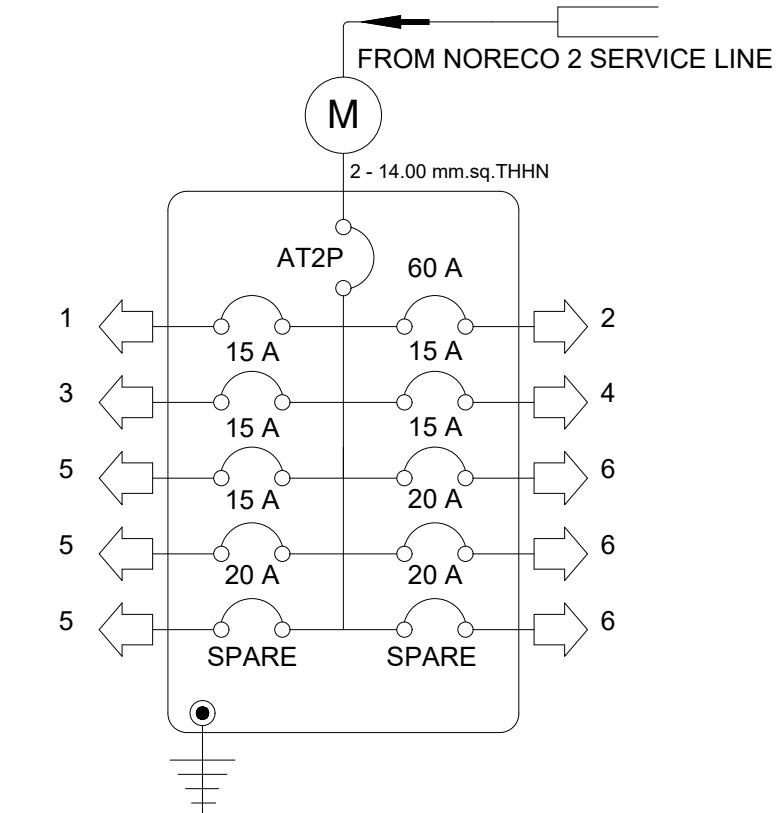
THE SPARE CIRCUITS SHALL BE PROVIDED WITH AN EMPTY ELECTRICAL PIPE SIZE OF 20mm dia. & 4" X 4" JUNCTION BOX WITH COVER THAT SHOULD EXTEND THE CEILING LINE OR OUTSIDE OF THE BUILDING.

LOCAL ELECTRICAL PERMITS AND OTHER GOVERNMENT AND LOCAL ELECTRICAL COOPERATIVE REQUIREMENTS SHALL BE COMPLIED WITH BY THE CONTRACTOR.

ELECTRICAL WORKS SHALL BE UNDER THE DIRECT SUPERVISION OF LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN AS PROVIDED FOR R.A. 7920.



SERVICE POLE DETAIL



SCHEMATIC RISER DIAGRAM

SCHEDULE OF LOADS

CKT. NO.	LOAD DESCRIPTION	VOLT	VA	AMP	PROTECTION			CONDUCTOR SIZE	CONDUIT
					AT	KAIC	POLE		
C1	LIGHTING OUTLET (7nos=L.O.)	220	700	3.18	15	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C2	LIGHTING OUTLET (8nos=L.O.)	220	800	3.64	15	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C3	LIGHTING OUTLET (7nos=L.O.)	220	700	3.18	15	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C4	LIGHTING OUTLET (5nos=L.O.)	220	500	2.27	15	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C5	LIGHTING OUTLET (5nos=L.O.)	220	500	2.27	15	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C6	CONVENIENCE OUTLET (5nos=C.O.)	220	1000	4.55	20	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C7	CONVENIENCE OUTLET (6nos=C.O.)	220	1200	5.45	20	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C8	CONVENIENCE OUTLET (6nos=C.O.)	220	1200	5.45	20	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
SPARE									
MAIN		220	6600	30	70	40	8	2-8.0mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.

Computation of Load:

I. MAIN FEEDER :

$$I_{FL} = \frac{6600 + 0.20 (6600)}{220 (1.73)}$$

$$I_{FL} = \frac{7920}{380.60} = 20.81 \text{ A}$$

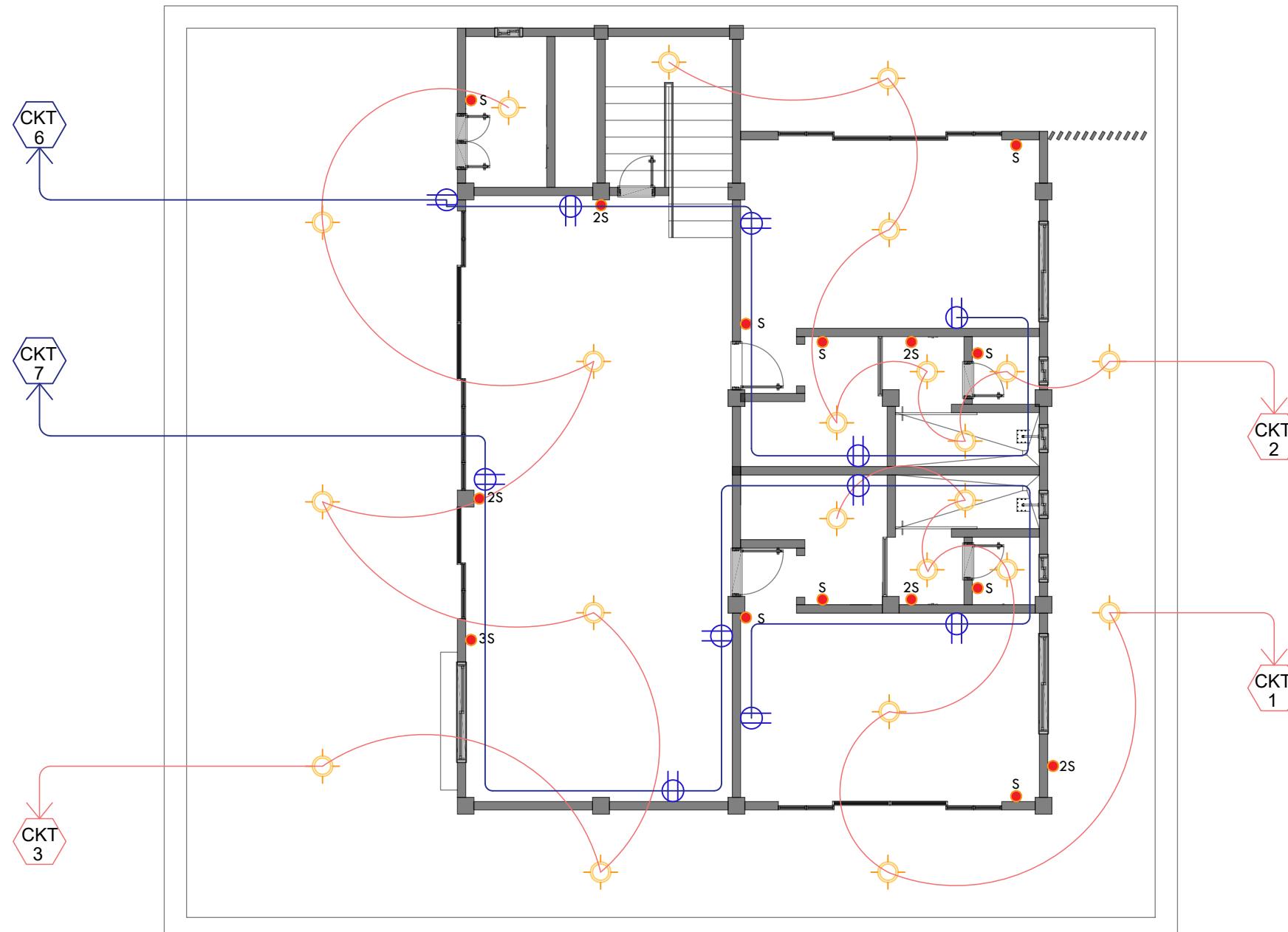
Use 8.00 mm² THHN
+ 14.00 mm² THHN in 1"φ PVC PIPE

II. MAIN PROTECTION :

$$20.81 \times 1.25 = 26.01 \text{ A}$$

Use 40AT, 2P, 220V, 50KAIC
BOLT ON TYPE CB

SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:	
PROFESSIONAL ELECTRICAL ENGINEER	PTR NO:	VALIDITY:	REGINA STACHER	AS SHOWN	E 1 6	
						PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING
						LOCATION: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN
						ADDRESS: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN
PRC NO:	TIN:					
VALIDITY:	ISSUED @:					
REV 0 (02/13/25)						



**GROUND FLOOR
LIGHTNING & POWER LAY-OUT PLAN**

E 1

SCALE

1:100

**SECOND FLOOR
LIGHTNING & POWER LAY-OUT PLAN**

E 2

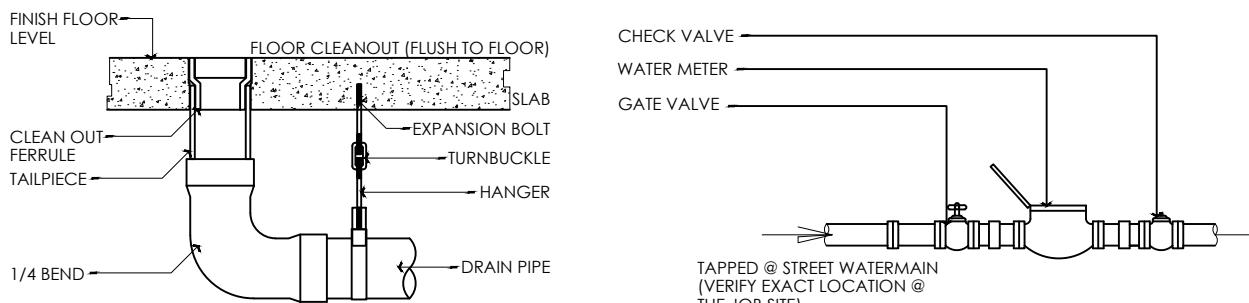
SCALE

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	PROFESSIONAL ELECTRICAL ENGINEER	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	REGINA STACHER	AS SHOWN	S 5 6
	PRC NO: PTR NO:				
	VALIDITY:	VALIDITY:			
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GENERAL NOTES ON PLUMBING / SANITARY SYSTEM

- ALL PLUMBING / SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES (NPCP), THE NATIONAL BUILDING CODE (NBC) AND ITS IMPLEMENTING RULES AND REGULATIONS, AND APPLICABLE LAWS, CODES AND ORDINANCES OF QUEZON CITY.
- ALL PLUMBING / SANITARY WORKS, INSTALLATIONS AND WORKMANSHIP SHALL BE SUPERVISED BY A DULY LICENSED PLUMBING ENGINEER / SANITARY ENGINEER.
- ALL PIPES, FITTINGS AND OTHER DEVICES SHALL BE INSTALLED AS INDICATED IN THE PLANS. ANY RELOCATION REQUIRED FOR THE EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER CONCERNED.
- EXCAVATION, PIPE LAYING AND BACKFILLING SHALL BE PERFORMED ACCORDING TO THE RECOMMENDED SLOPE AS APPROVED IN SEC. 154 OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES (NPCP) WHICH STATES:
"ALL HORIZONTAL PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT A UNIFORM GRADE OF NOT LESS THAN TWO PERCENT (2%)."
- ALL PIPING SYSTEMS, IF NECESSARY SHALL BE SUPPORTED BY MEANS OF HANGERS, BRACES, CLAMPS, AND OTHER MEANS OF PIPE SUPPORTS. HORIZONTAL PIPES SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 3048 mm. (10 FT.).
- COLD WATER SUPPLY PIPE ESPECIALLY GALVANIZED IRON PIPE SHALL BE COATED WITH AN APPROVED ANTI-RUST PAINT / RED OXIDE / RED LEAD PAINT.
- NO BUILDING / HOUSE COLD WATER SUPPLY (CWS) PIPE SHALL BE LESS THAN 13 mm Ø (1/2 Ø) UNLESS OTHERWISE SPECIFIED.
- SYSTEM OF TEST. ALL THE PIPING OF THE PLUMBING SYSTEM SHALL BE TESTED WITH WATER HAVING A PRESSURE HEAD OF ATLEAST 1500mm (5 FT.).
- VENT THRU ROOF SHALL BE PROVIDED WITH SEALANTS LEAD OR GALVANIZED IRON FLASHING OR OTHER MEANS OF WEATHER PROTECTION DEVICES. IT SHALL EXTEND 305 mm (1 FT.) ABOVE THE ROOF.
- ALL ITEMS OR PARTS, SUCH AS FITTINGS, VALVES, FIXTURES, AND / OR APPURTENCES, WHETHER THESE PARTS HAVE BEEN SPECIFICALLY MENTIONED OR NOT INDICATED IN THE DRAWINGS, SHALL BE INSTALLED AND FURNISHED IF NECESSARY TO COMPLETE THE PLUMBING SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF PLUMBING TRADE AND PROFESSION.

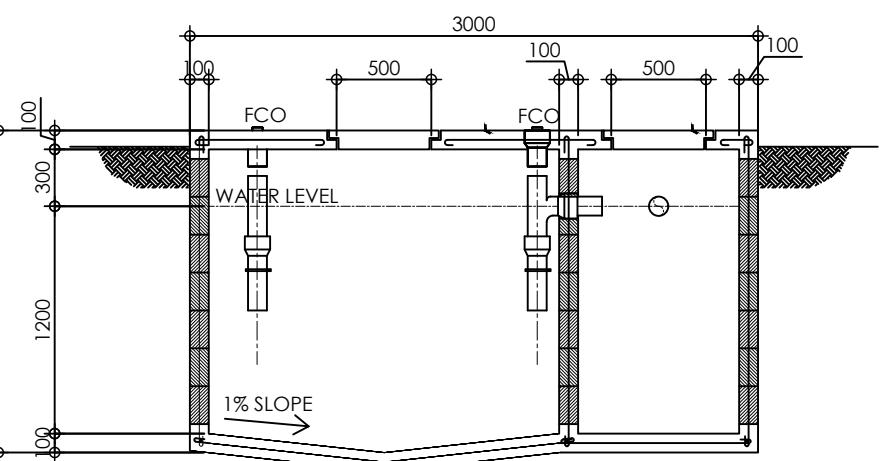
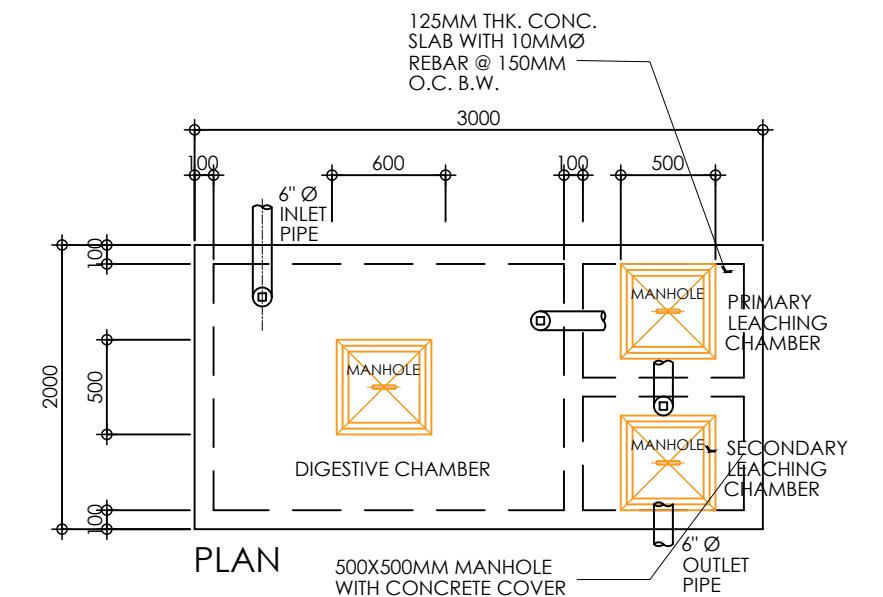


LEGENDS:

<hr/>	SP / WP	SOIL PIPE / WASTE PIPE
VSTR	VSTR	VENT STOCK THROUGH ROOF
CWL	CWL	COLD WATER LINE
AV	AV	GATE VALVE
GV	GV	GATE VALVE
CV	CV	CHECK VALVE
FV	FV	FLOAT VALVE
PS	PS	PRESSURE SWITCH
PG	PG	PRESSURE GAUGE
HB	HB	HOSE BIB
SS	SS	SOIL STACK
DS	DS	DOWNSPOUT
FD/SD	FD/SD	FLOOR DRAIN/SHOWER DRAIN
CO	CO	CLEANOUT
FCO	FCO	FLOOR CLEANOUT
WC	WC	WATER CLOSET
LAV	LAV	LAVATORY
KS	KS	KITCHEN SINK
AD	AD	400 X 400 AREA DRAIN/ CATCH BASIN
SAD	SAD	400 X 600 SITE AREA DRAIN/ CATCH BASIN

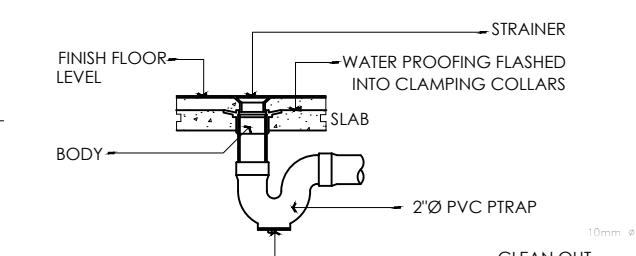
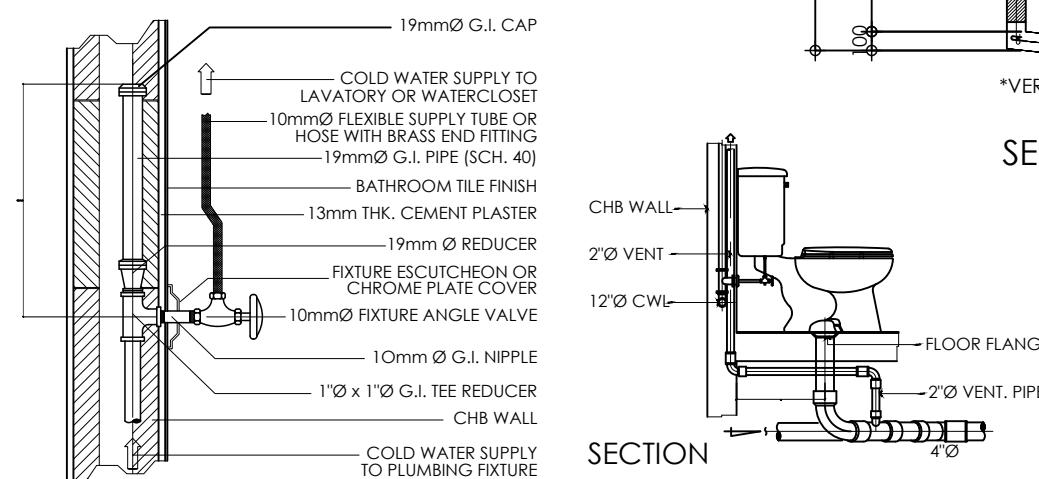
ABBREVIATION/BRANCH SIZING:

ABBR.	DESCRIPTION	BRANCH SIZE
SP/ DP	SP/ DP	CWL/HWL
AV	ANGLE VALVE WITH SUPPLY FLEXIBLE PIPE	13mmØ
B	BIDET (S-TRAP TYPE)	50mmØ
BD	BALCONY DRAIN (UNILEX U-623 OR EQUAL)	75mmØ
BV	BALL VALVE (KITZ OR EQUAL)	13mmØ
CB	CATCH BASIN	
CO	CLEANOUT (UNILEX U-308 OR EQUAL)	
CV	CHECK VALVE (KITZ OR EQUAL)	
CWDF	COLD WATER DOWNFEED (PPR PN 20)	
CWH	COLD WATER HEADER (PPR PN 20)	
CWL	COLD WATER LINE (PPR PN20)	
CWR	COLD WATER RISER (PPR PN20)	
D	DRYER	
DP	STORM DRAIN PIPE (uPVC, ATLANTA)	
DS	DOWNSPOUT (uPVC, ATLANTA)	
FD	STAINLESS WALL TYPE KITCHEN FAUCET	100mmØ
GD	GUTTER DRAIN WITH DOME TYPE STRAINER	100mmØ
GV	GATE VALVE (KITZ OR EQUAL)	100mmØ
HB	HOSE BIBB	13mmØ
HWL	HOT WATER LINE (PPR PN 20)	13mmØ
JD	JACUZZI DRAIN	50mmØ
KS	KITCHEN SINK	50mmØ
LAV	LAVATORY	50mmØ
LT	LAUNDRY TRAY	50mmØ
PD	PLANTERS DRAIN (UNILEX U-628 OR EQUAL)	75mmØ
PG	PRESSURE GAUGE (100psi)	13mmØ
PPR	POLYPROPYLENE PIPE (PILSATHERM OR EQUAL)	13mmØ
PRV	PRESSURE RELIEF VALVE (SETTING:80psi)	13mmØ
PS	PRESSURE SWITCH (SETTING: 20-40 psi)	13mmØ
uPVC	POLYVINYL CHLORIDE (ATLANTA OR EQUAL)	13mmØ
RD	ROOF DECK DRAIN (UNILEX U-524 OR EQUAL)	13mmØ
SD	SHOWER DRAIN (UNILEX U-619 OR EQUAL)	13mmØ
SHO	SHOWER MIXER	13mmØ
SP	SOIL PIPE (uPVC, ATLANTA)	13mmØ
SS	SOIL STACK (uPVC, ATLANTA)	13mmØ
U	URINAL	50mmØ
VP	VENT PIPE (uPVC, ATLANTA)	50mmØ
VPTC	VENT PIPE THRU CEILING (uPVC, ATLANTA)	50mmØ
VS	VENT STACK (uPVC, ATLANTA)	50mmØ
VSTR	VENT STACK THRU ROOF (uPVC, ATLANTA)	50mmØ
WC	WATER CLOSET	100mmØ
WH	MULTI-POINT WATER HEATER	13mmØ

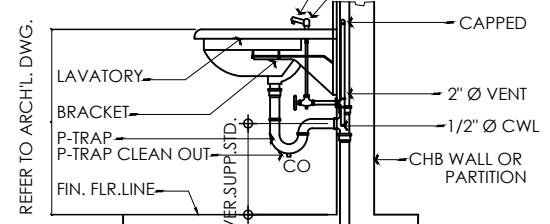


*VERIFY STRUCTURAL DESIGN WITH STRUCTURAL ENGINEER

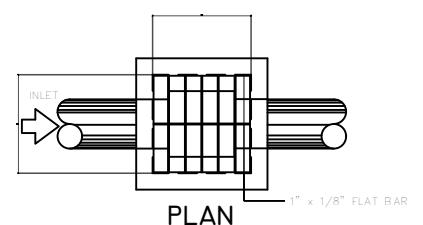
SECTION



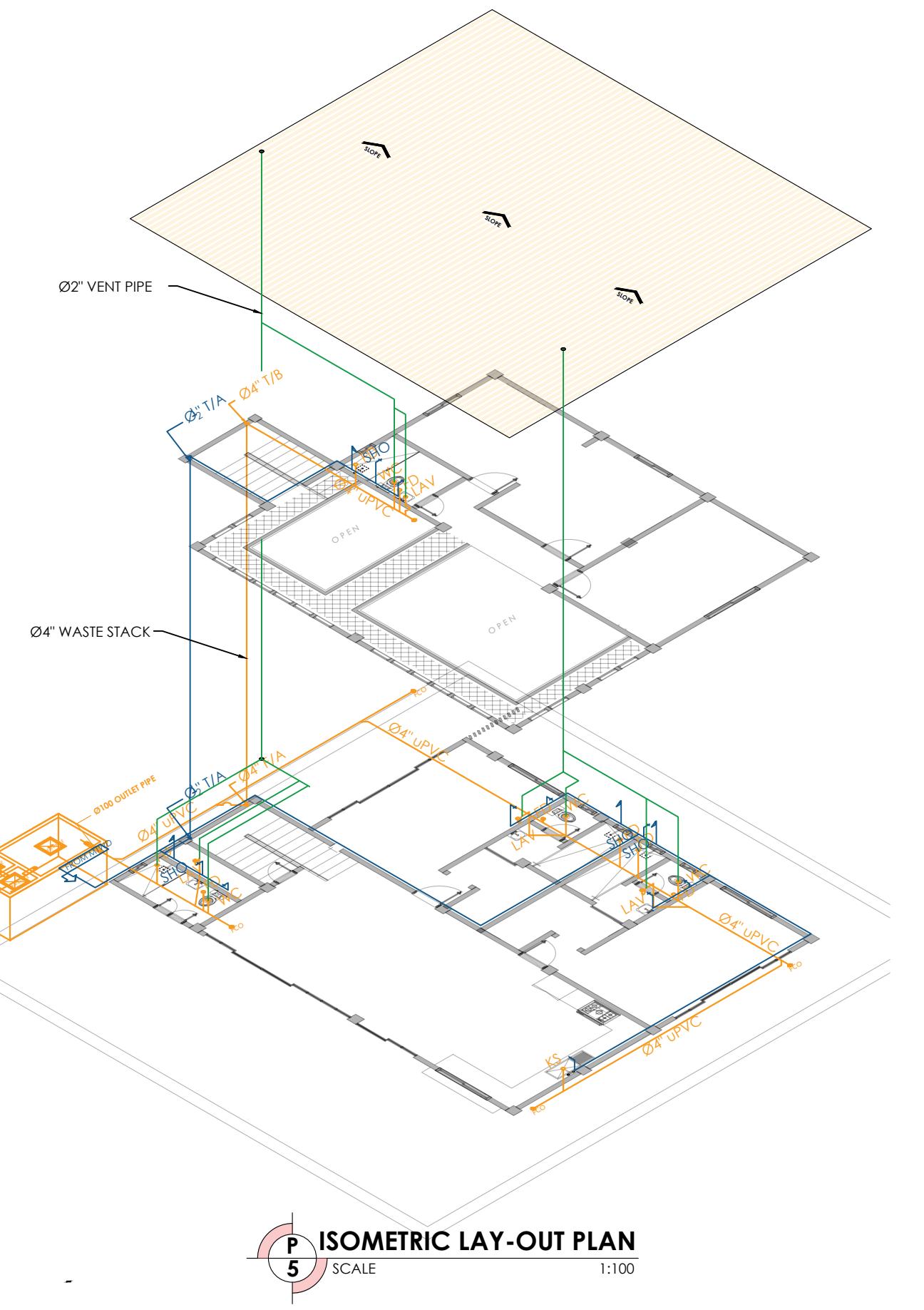
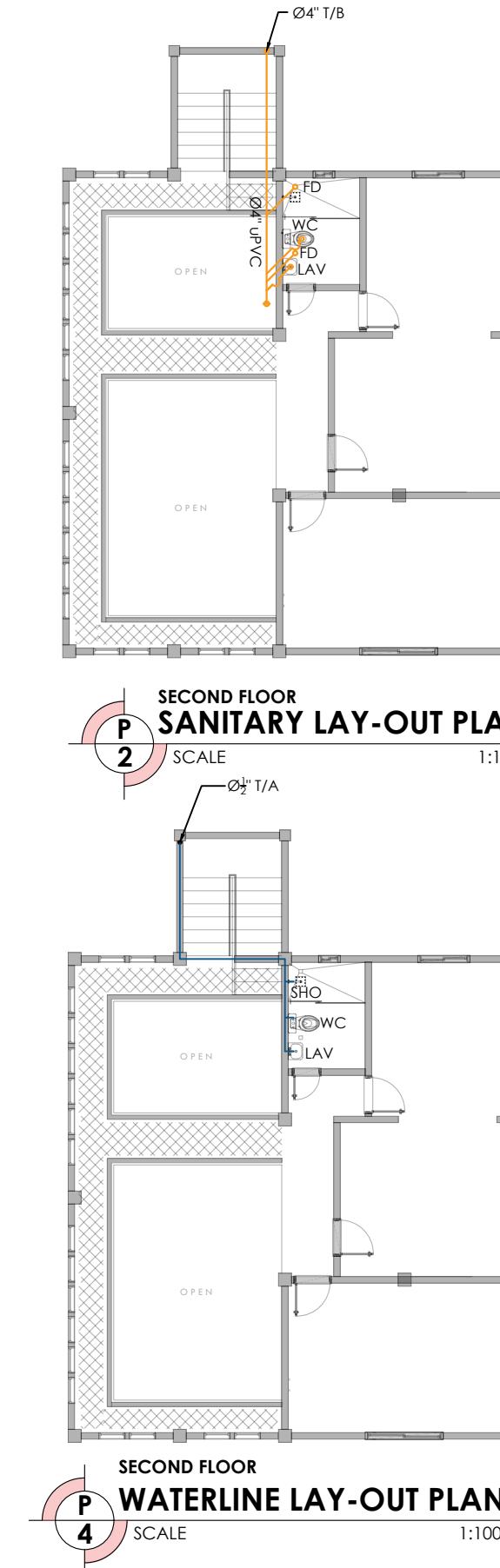
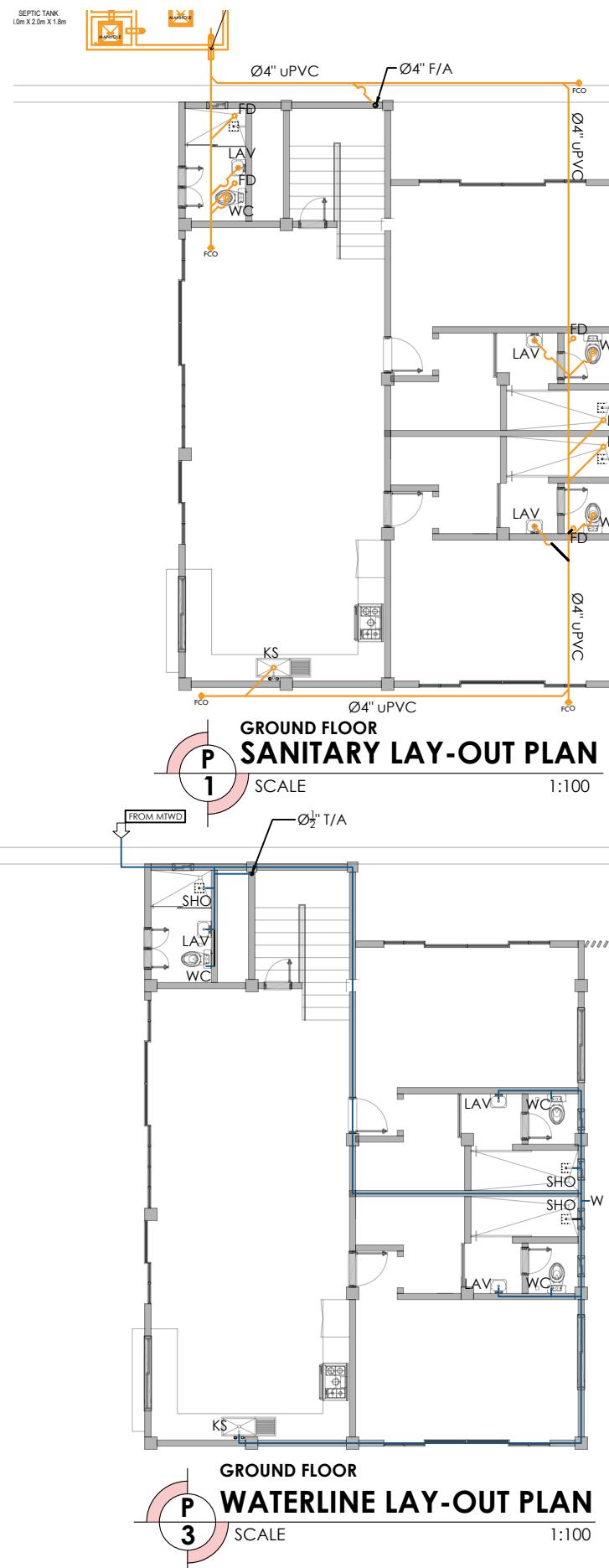
SECTION



SECTION



SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:
REGISTERED MASTER PLUMBER		PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING		AS SHOWN	
PRC NO:	PTR NO:	REGINA STACHER		REV 0 (02/13/25)	
VALIDITY:	VALIDITY:				
TIN:	ISSUED @:	LOCATION: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN			



SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:
	REGISTERED MASTER PLUMBER	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	REGINA STACHER	AS SHOWN	P 2 / 6
PRC NO:	PTR NO:				
VALIDITY:	VALIDITY:				
TIN:	ISSUED @:	LOCATION: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN	ADDRESS: BRGY. UPPER IRASAN, PRES. M.A. ROXAS, ZDN		REV 0 (02/13/25)