



BUILDING OFFICIAL

LINE & GRADE

LOCATIONAL/ZONING

ELECTRICAL

SANITARY

FIRE MARSHAL

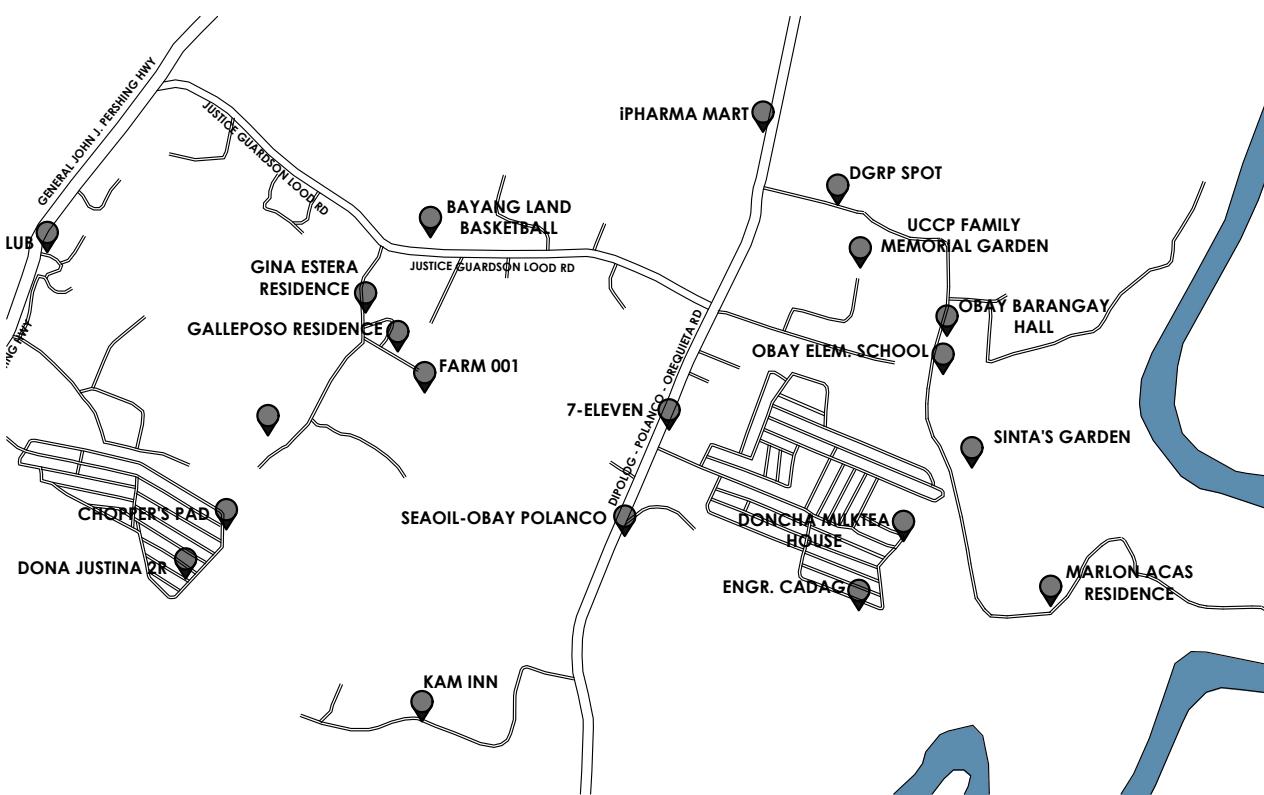
BARANGAY CHAIRMAN



PERSPECTIVE ONE



PERSPECTIVE TWO



VICINTY MAP



LOCATION MAP

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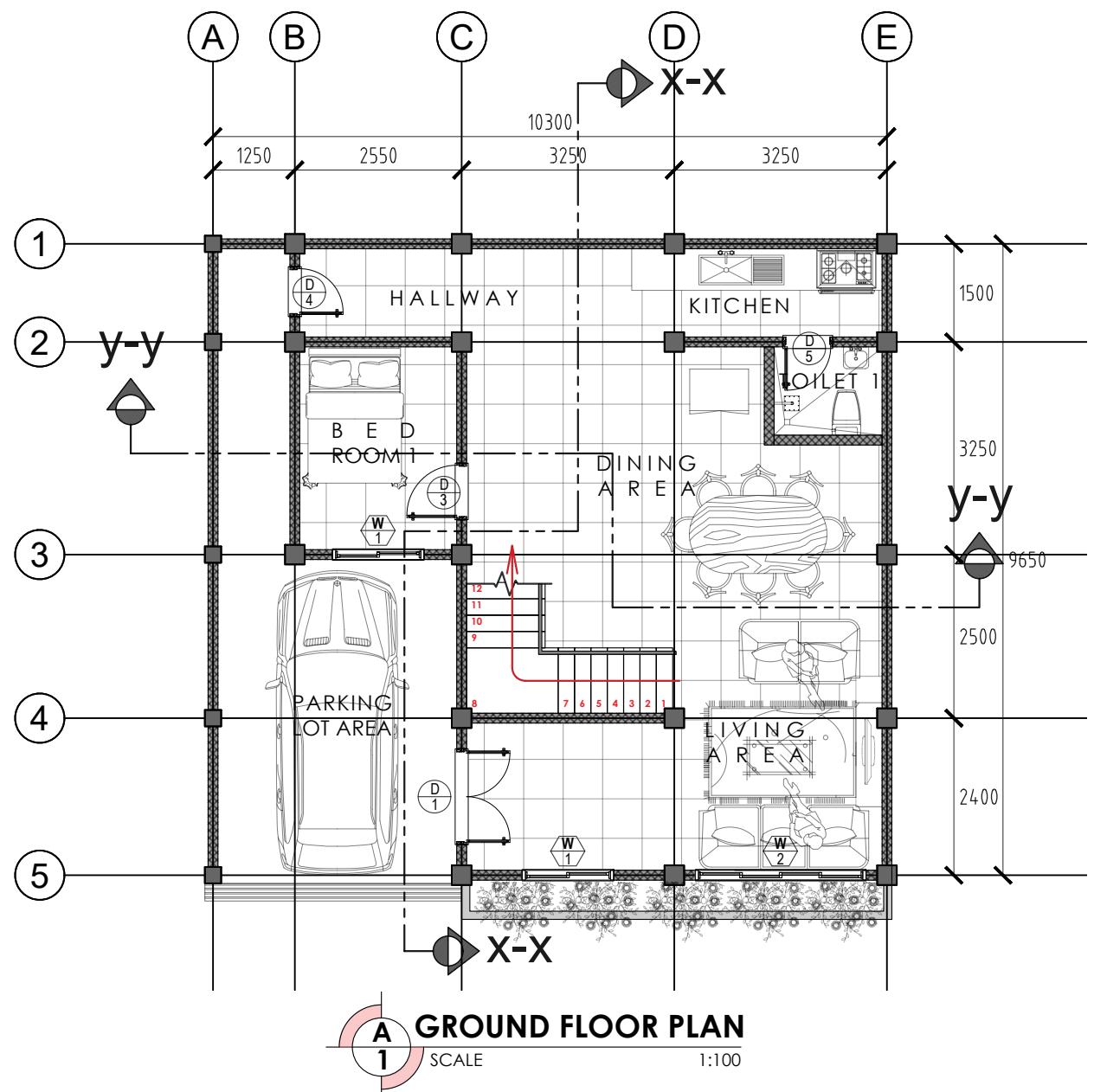
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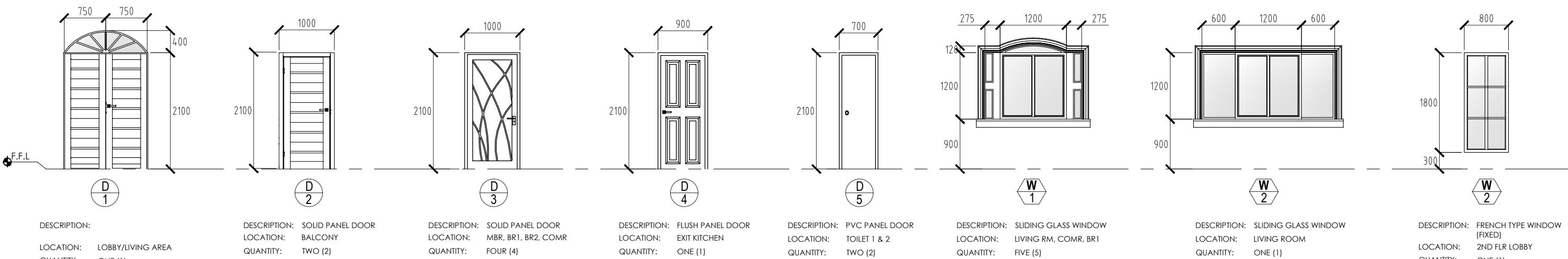
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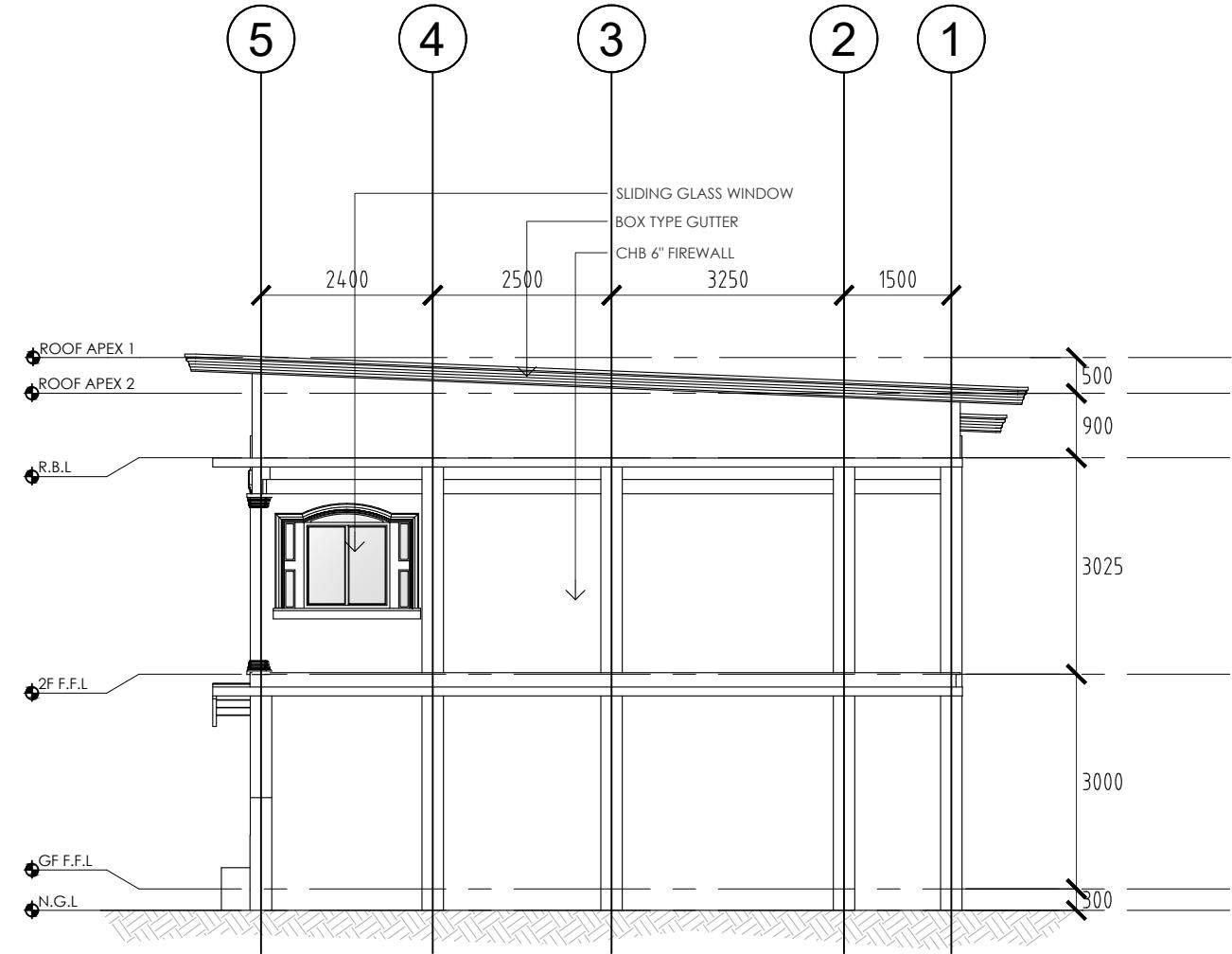
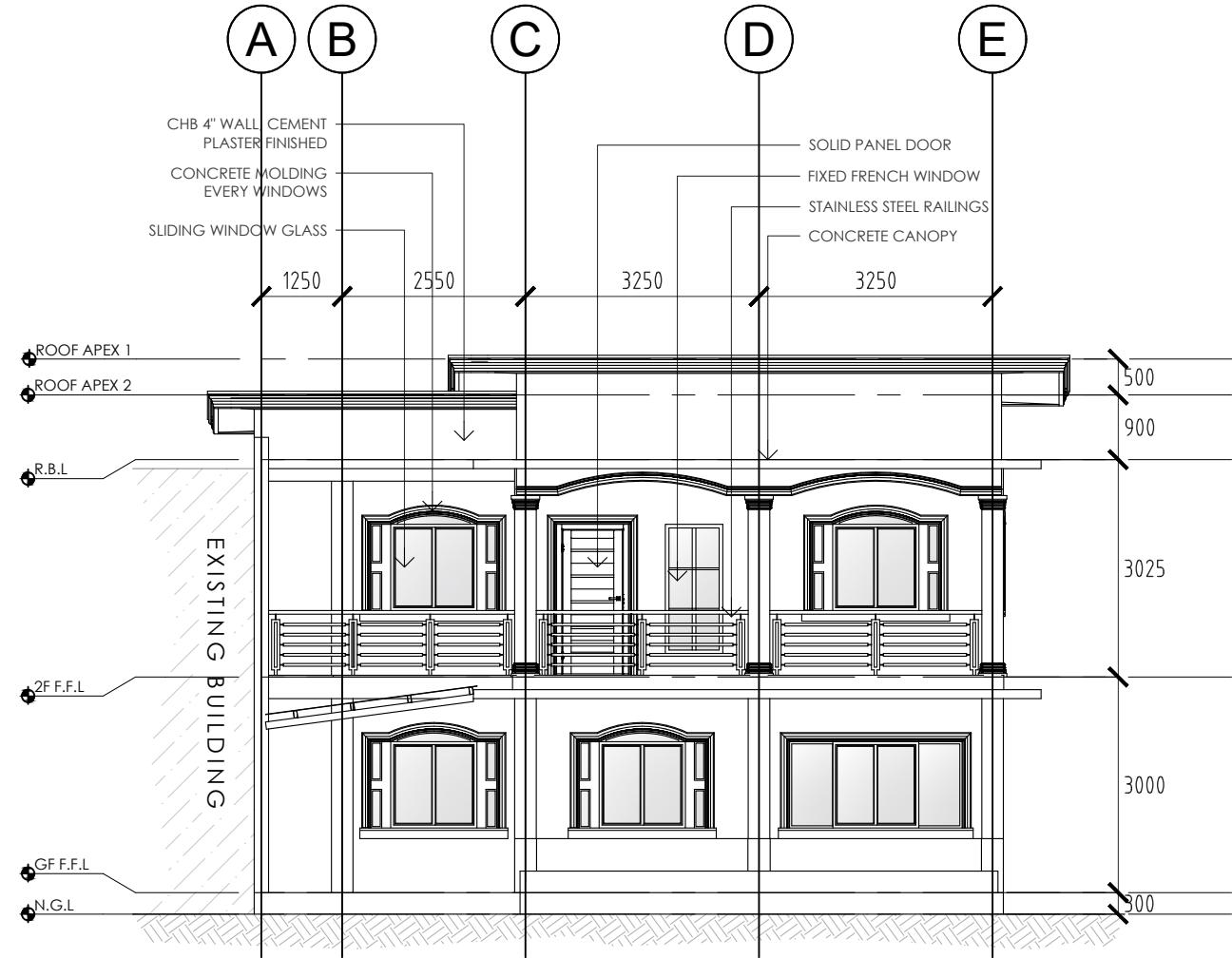
SEAL:	DESIGNED BY: REGISTERED ARCHITECT	PROJECT TITLE: PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	PROJECT OWNER: <u>MARIVIC T. BUSTALIÑO</u>	SHEET:	SHEET NO.:
	PRC NO: PTR NO: VALIDITY: VALIDITY: TIN: ISSUED @:	LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN	ADDRESS: VCHOAI, BRGY. OBAY, POLANCO, ZDN	AS SHOWN	A 1 6 REV 0 (X/X/X)



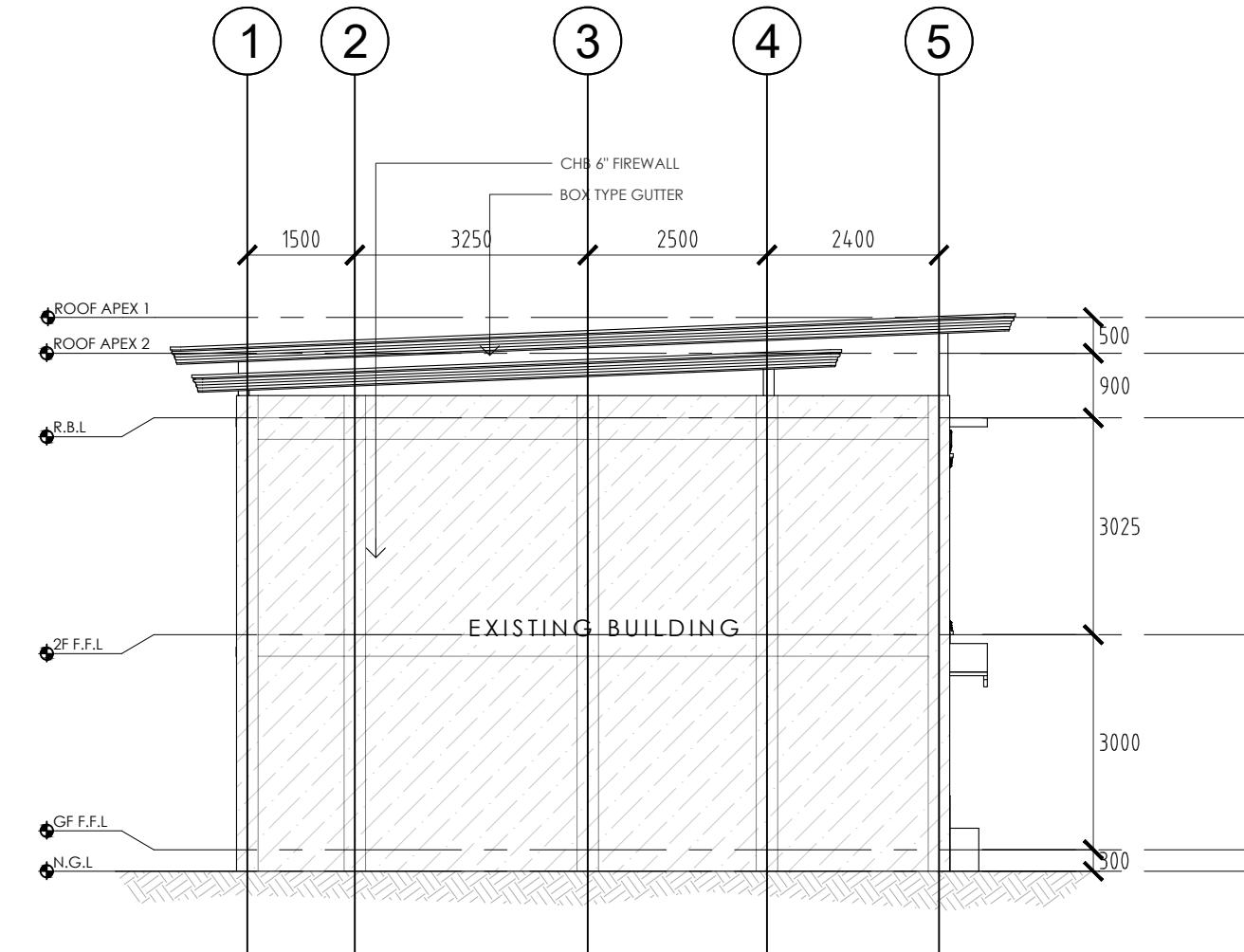
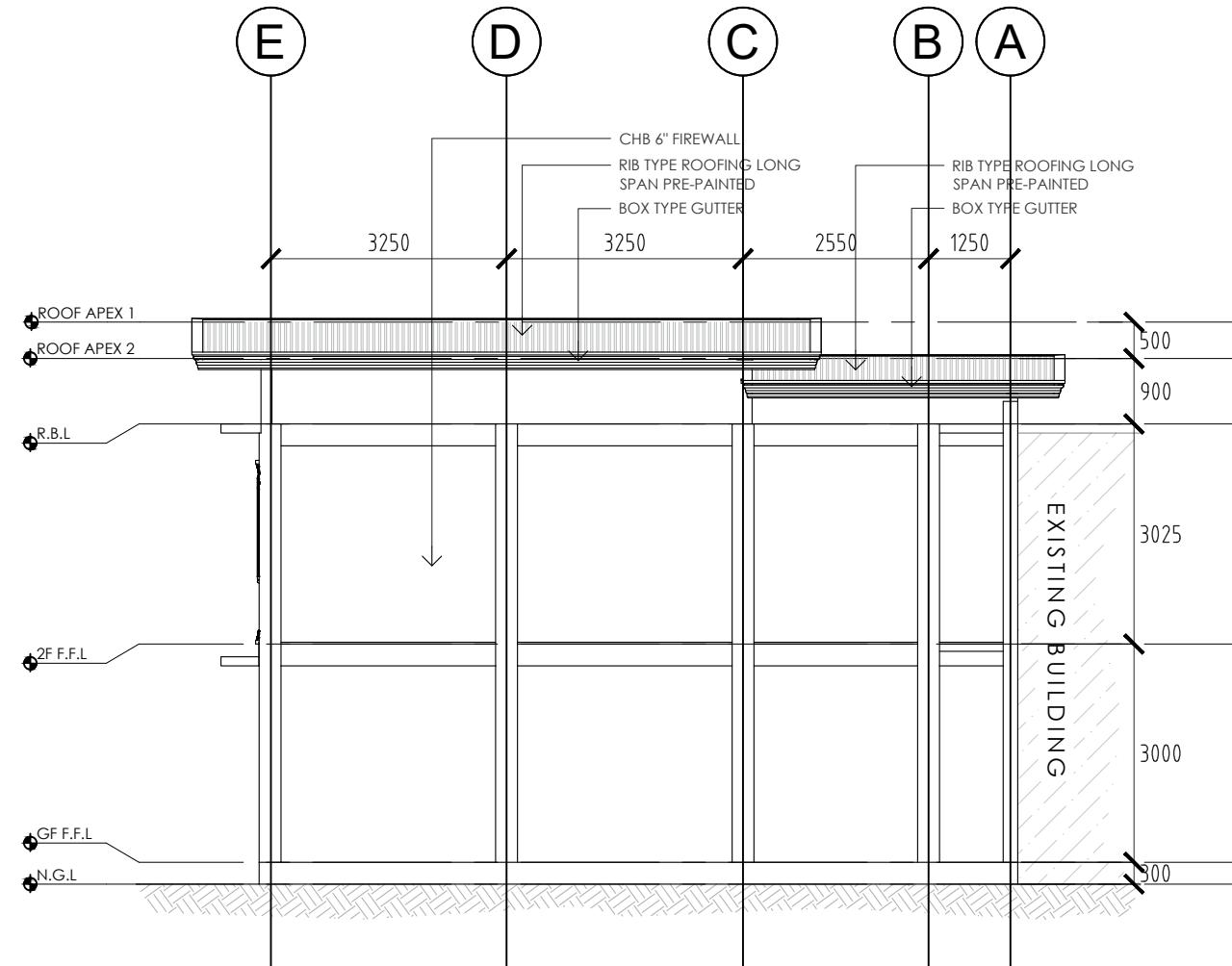
SCHEDULE OF DOORS AND WINDOWS



SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:	
REGISTERED ARCHITECT	PTR NO: VALIDITY: ISSUED @:	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	<u>MARIVIC T. BUSTALÍÑO</u>	AS SHOWN	A	
					PRC NO: VALIDITY: TIN:	REV 0 (X/X/X)



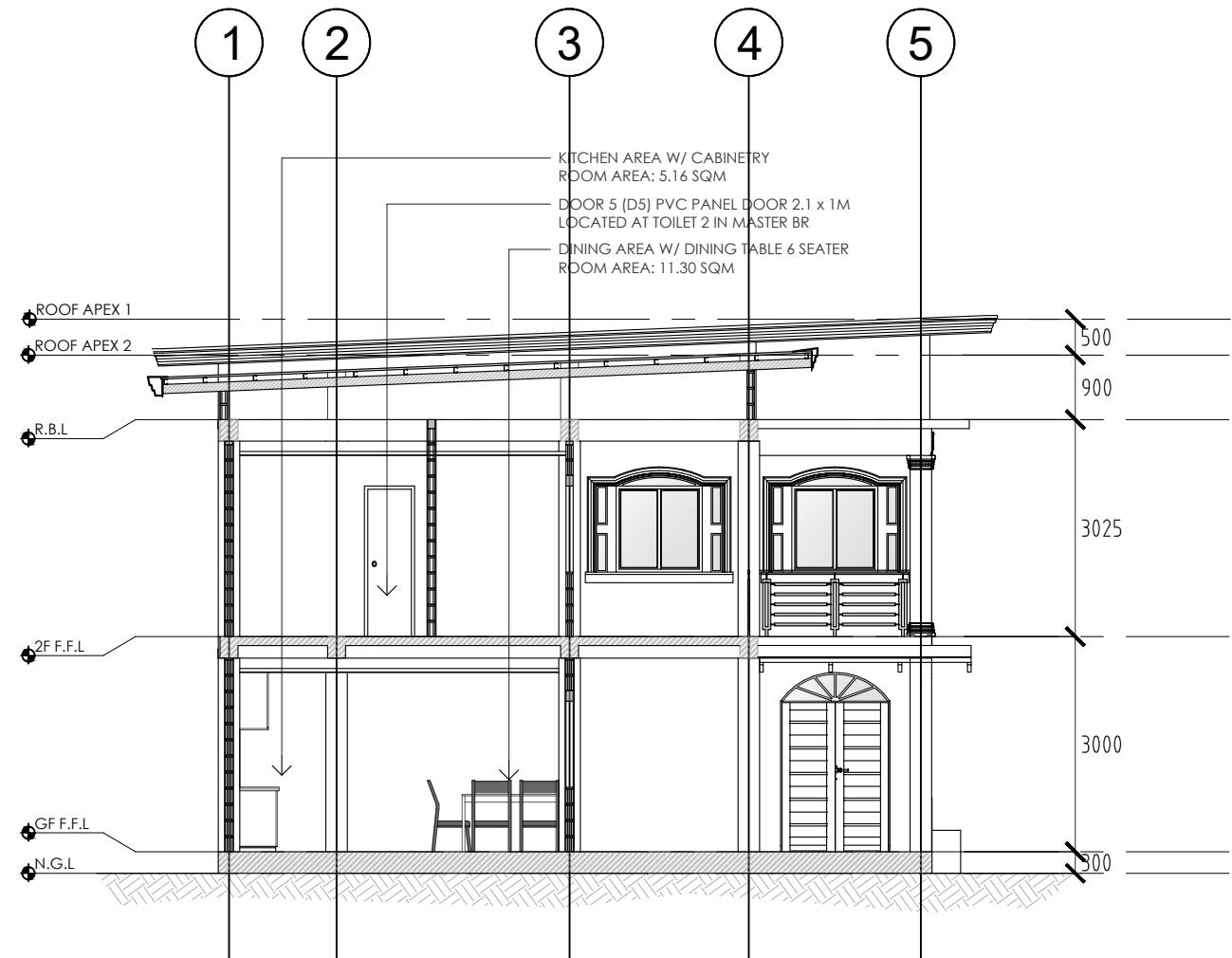
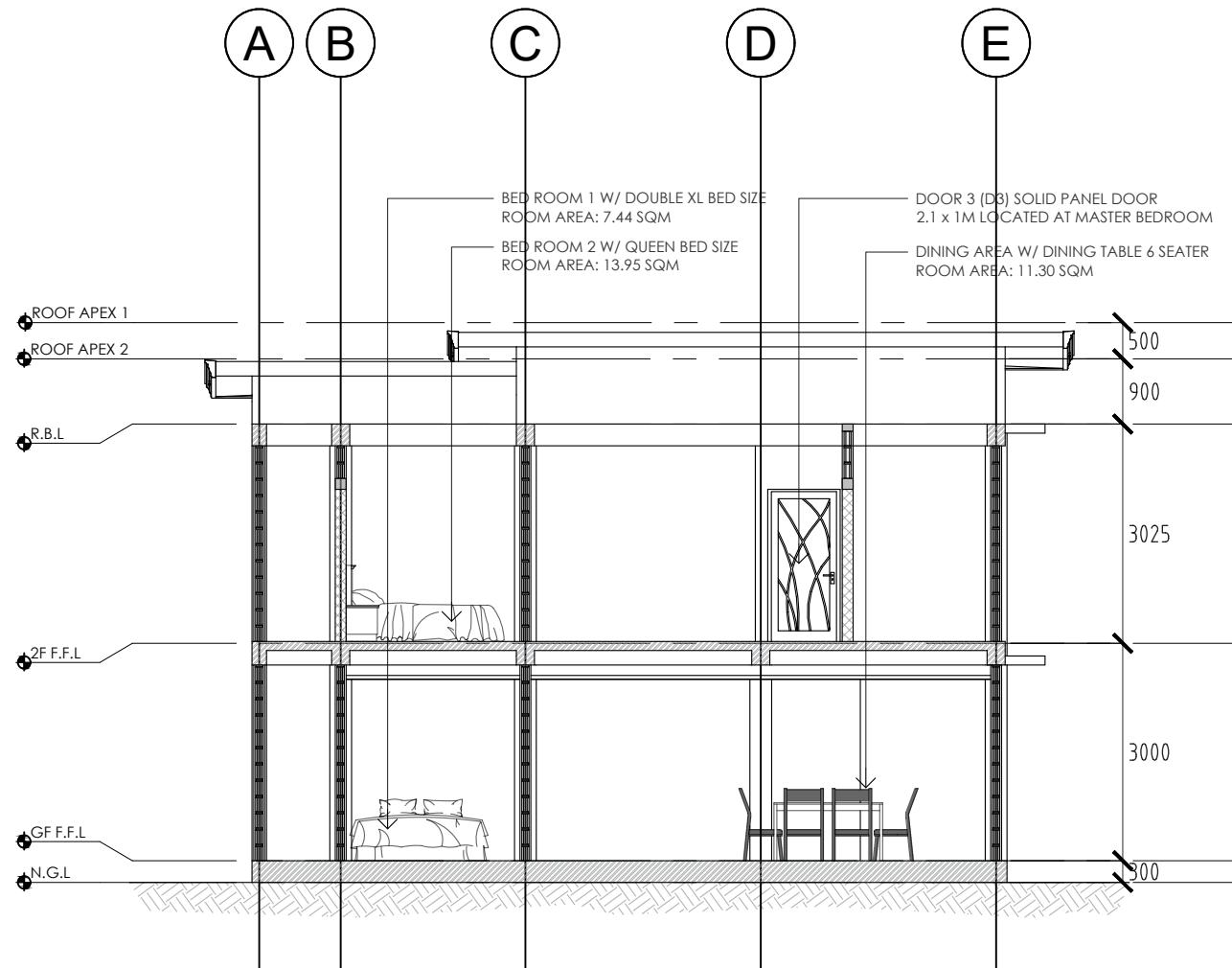
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	REGISTERED ARCHITECT	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	MARIVIC T. BUSTALÍÑO	AS SHOWN	A 3 6
PRC NO:	PTR NO:				
VALIDITY:	VALIDITY:				
TIN:	ISSUED @:	LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN	ADDRESS: VCHOAI, BRGY. OBAY, POLANCO, ZDN		REV 0 (X/X/X)



A REAR VIEW ELEVATION
1
SCALE 1:100

A LEFT VIEW ELEVATION
2
SCALE 1:100

SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:
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	REGISTERED ARCHITECT _____ PRC NO: PTR NO: VALIDITY: VALIDITY: TIN: ISSUED @:	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	MARIVIC T. BUSTALIÑO	AS SHOWN	
		LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN	ADDRESS: VCHOAI, BRGY. OBAY, POLANCO, ZDN		REV 0 (X/X/X)

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

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

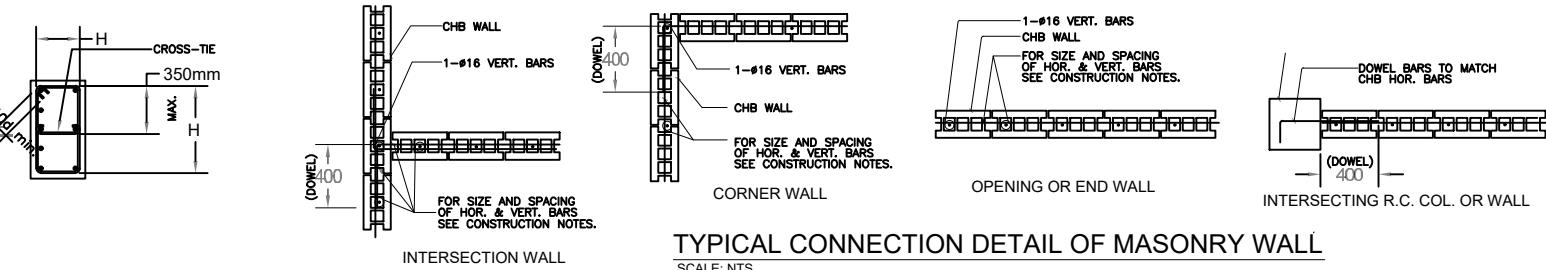
- FOUNDATION IS DESIGNED FOR ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 3000 PSF.
- FOUNDATION SHALL REST ON NATURAL SOIL UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED & PRIOR 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
		90 DEG.	180 DEG.	133 DEG.	TENSION BAR	COMPRESSION BAR		
10MM	0.60	0.10	0.13	0.10	0.42	0.30	0.617	0.30
12MM	0.60	0.14	0.16	0.12	0.42	0.30	0.889	0.30
16MM	0.60	0.22	0.18	0.14	0.73	0.52	1.580	0.52
20MM	0.60	0.30	0.20	0.20	0.91	0.78	2.469	0.65
25MM	0.68	0.40	0.28	0.26	1.40	1.00	3.858	0.80
28MM	0.86	0.48	0.38		1.76	1.26	4.840	0.90
32MM	1.12	0.56	0.43		2.31	1.65	6.327	1.03
36MM	1.38	0.61	0.48		2.95	2.10	8.000	1.20

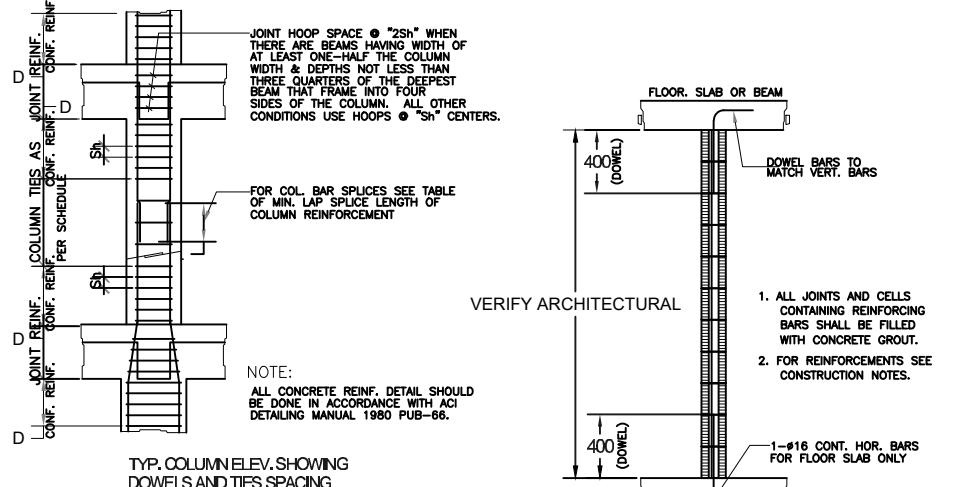
NOTES:

- ACI SECTION 12.4 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 SUBJECT TO TENSILE STRESSES ARE DISCOURAGED. THESE SHOULD BE AVOIDED OR PROVIDED WITH STANDARD HOOKS.
- ASSUMED SPECIFIED COMPRESSIVE STRESS FOR CONCRETE $f_c = 3000$ PSI



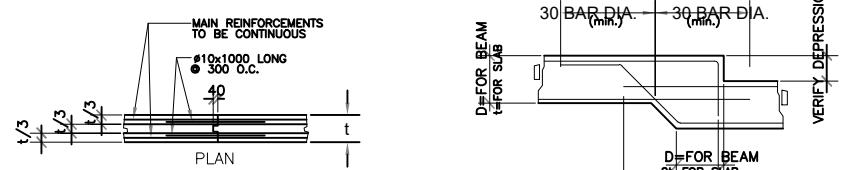
TYPICAL CONNECTION DETAIL OF MASONRY WALL

SCALE: NTS.

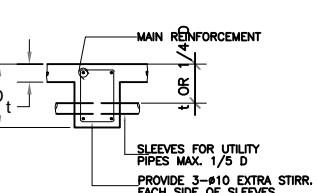


TYPICAL SECTION OF MASONRY PARTITION REINFORCEMENTS

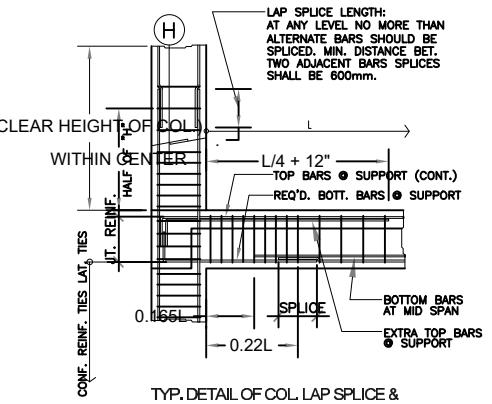
SCALE: NTS.



TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT



TYP. DET. FOR SLEEVES THRU CONCRETE BEAM



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

SCALE: NTS.

NOTE: 1-#16 VERT. BARS

FOR SIZE AND SPACING OF HOR. & VERT. BARS SEE CONSTRUCTION NOTES.

CHB WALL

1-#16 VERT. BARS

FOR SIZE AND SPACING OF HOR. & VERT. BARS SEE CONSTRUCTION NOTES.

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CHB WALL

1-#16 VERT. BARS

FOR SIZE AND SPACING OF HOR.

SCHEDULE OF FOOTING REINFORCEMENT

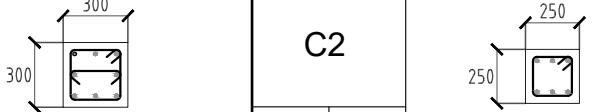
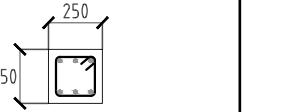
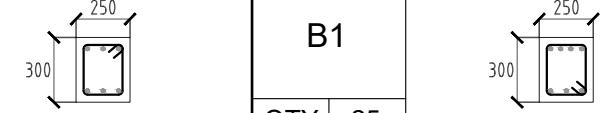
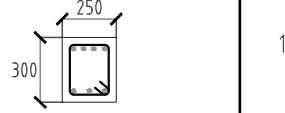
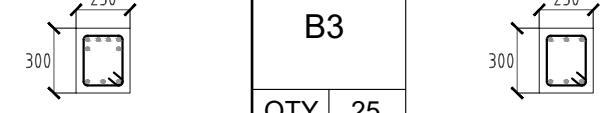
FOOTING NUMBER	FOOTING SIZE (m)			BOTTOM BARS		QTY	
	A	B	T	MIN. DEPTH	ALONG A		
CF1	2.125	2.4	0.35	1.8	11 - 16mmØ	13 - 16mmØ	1
CF2	2.4	1.5	0.35	1.8	13 - 16mmØ	8 - 16mmØ	4
F1	1.8	1.8	0.35	1.8	9 - 16mmØ	9 - 16mmØ	5
F2	1.5	1.5	0.35	1.8	8 - 16mmØ	8 - 16mmØ	5

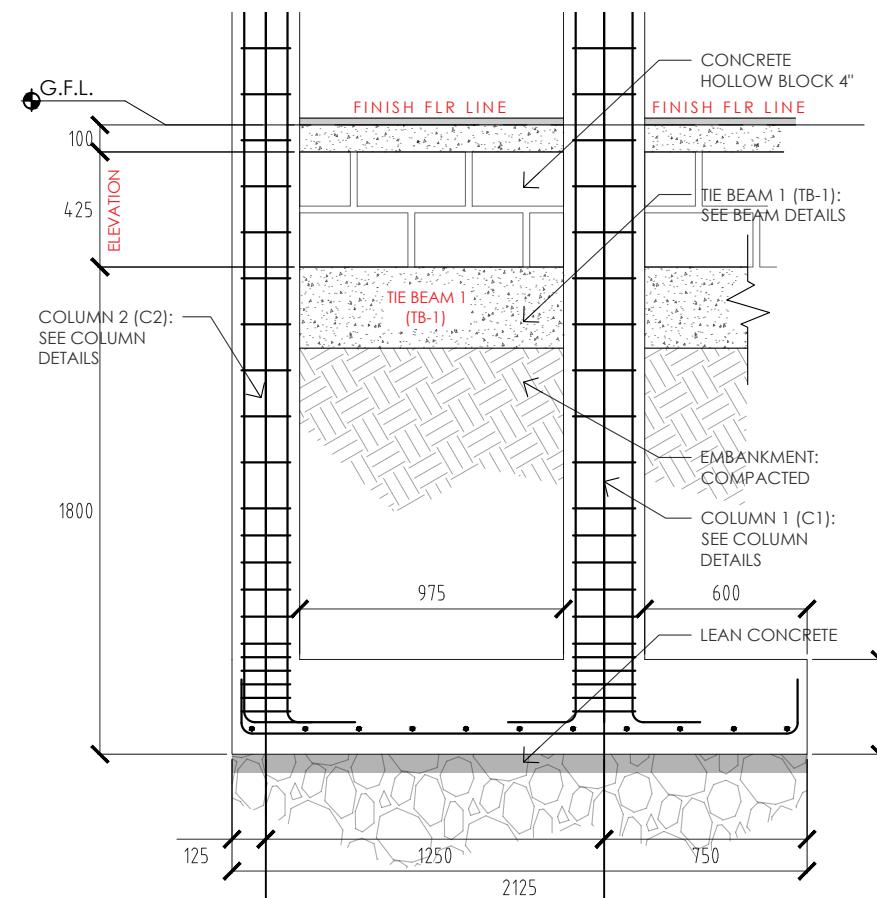
MATERIAL STRENGTH:

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

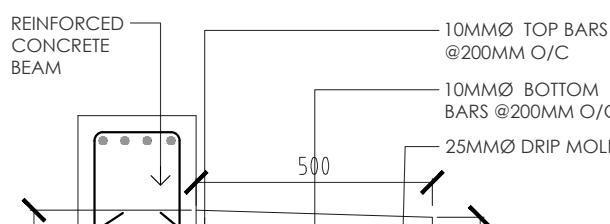
SCHEDULE OF COLUMNS AND BEAMS REINF.

FC = 3,000 PSI FY = 40,000 PSI		FC = 3,000 PSI FY = 40,000 PSI	
MARK	GROUND FLR - 2ND FLOOR LVL	MARK	GROUND FLR - 2ND FLOOR LVL
MAIN BARS	8 - 16mm Ø	MAIN BARS	6 - 16mm Ø
C1		C2	
QTY	17	QTY	5
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
MARK	GROUND LVL	MARK	2ND FLOOR LVL
MAIN BARS	6 - 16mm Ø	MAIN BARS	7 - 16mm Ø
TB1		B1	
QTY	27	QTY	25
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
MARK	2ND FLOOR LVL	MARK	2ND FLOOR LVL
MAIN BARS	9 - 16mm Ø	MAIN BARS	7 - 16mm Ø
B2		B3	
QTY	4	QTY	25
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

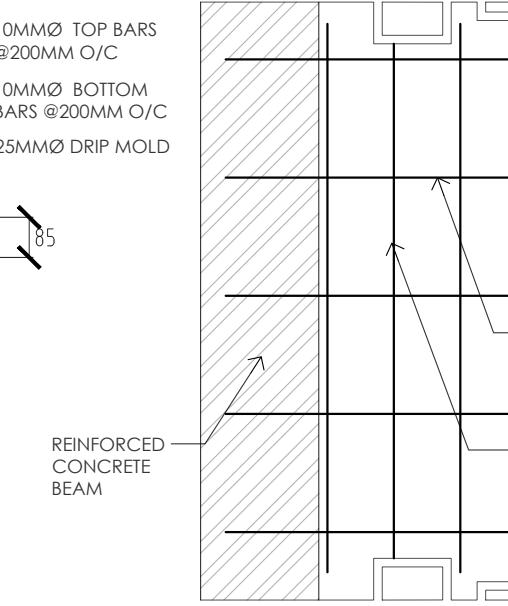


COLUMN AND FOOTING DETAIL

NDTS

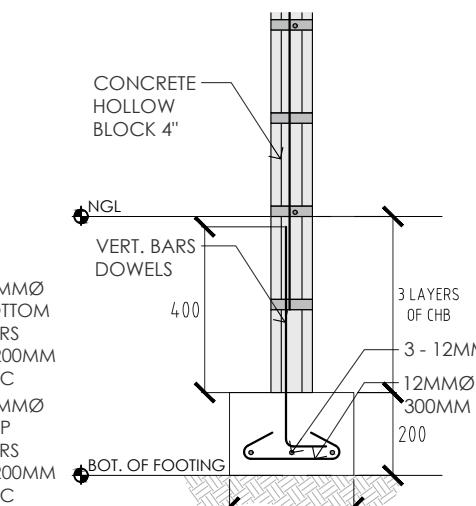


SECTION

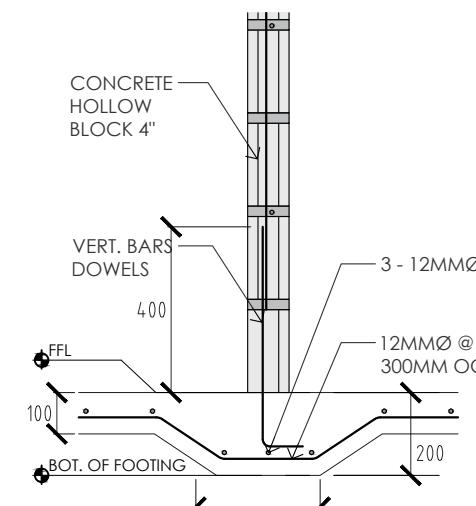


PLAN

CANOPY DETAIL



WF - 1

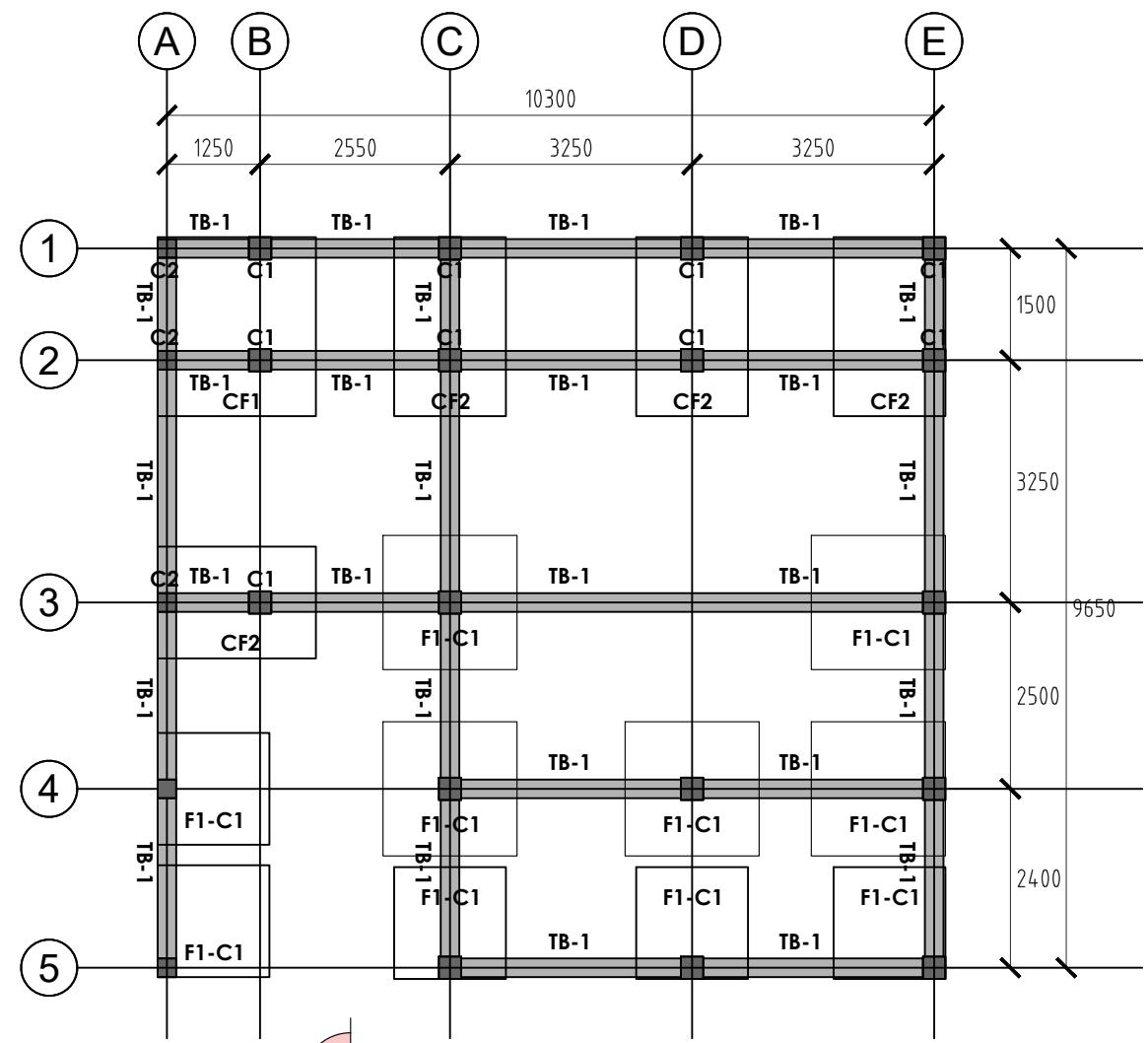


WF - 2

WALL FOOTING DETAIL

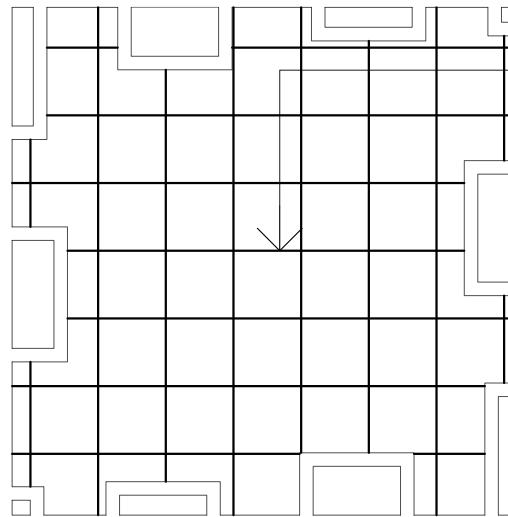
NDTS

SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:
	APRIL JHON S. BECHAYDA <small>REGISTERED CIVIL ENGINEER</small>	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	MARIVIC T. BUSTALIÑO	AS SHOWN	
	PRC NO: 0191647 VALIDITY: 2026 TIN: 691-450-220	PTR NO: 0337525 VALIDITY: 2026 ISSUED @: PRES. MA ROXAS	LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN	ADDRESS: VCHOAI, BRGY. OBAY, POLANCO, ZDN	REV 0 (X/X/X)



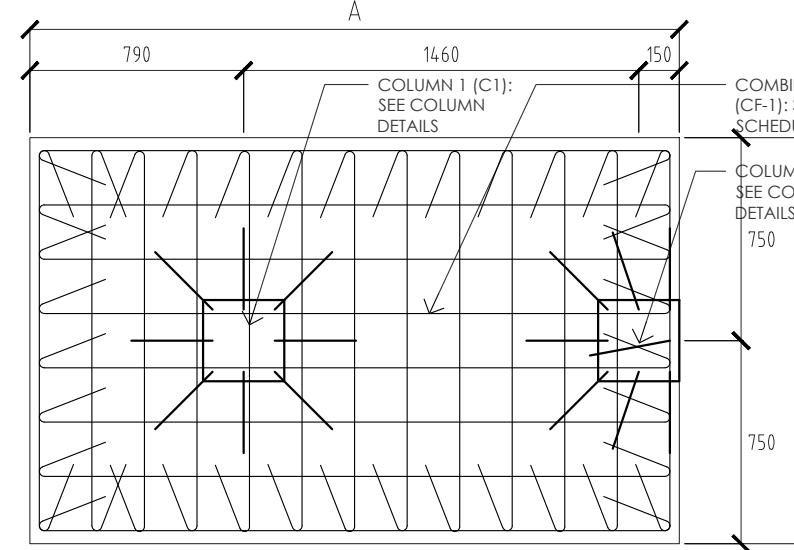
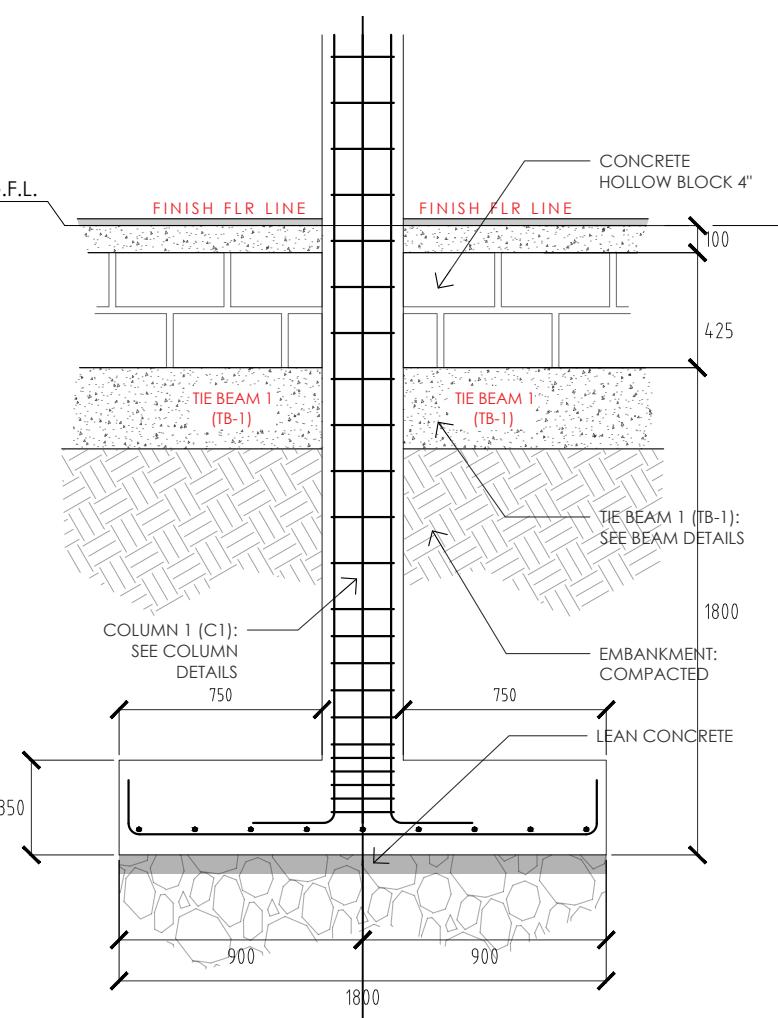
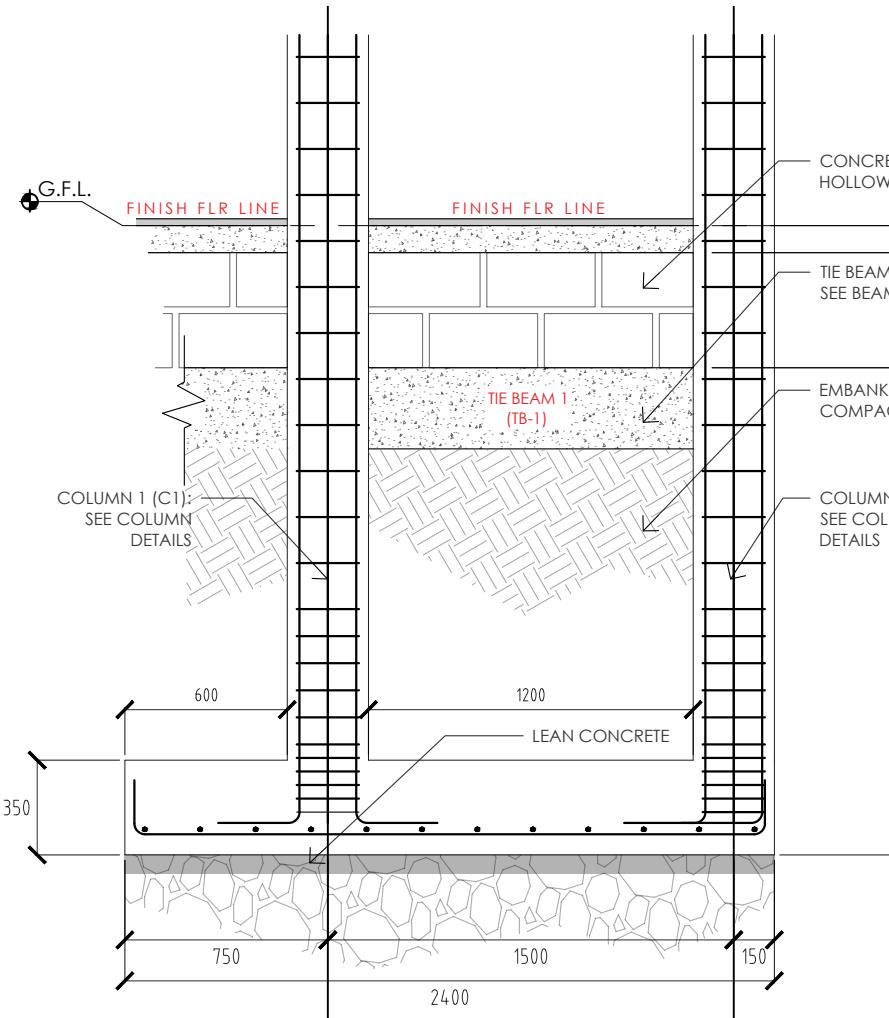
FOUNDATION PLAN

- 150MM THK SLAB ON
FILL WITH 10MMØ
MATTING BARS SPACED
@ 600MM O.C. BW

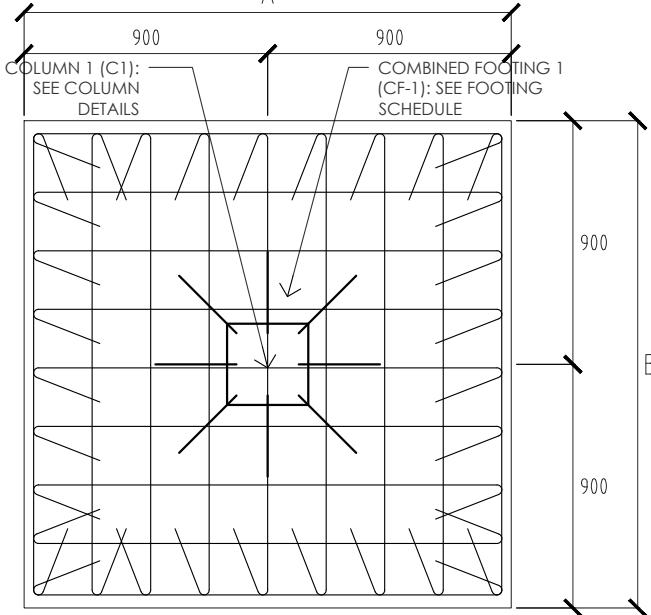


GROUND LEVEL SLAB

1:100



C F 2



F 1



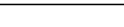
COLUMN & FOOTING DETAIL

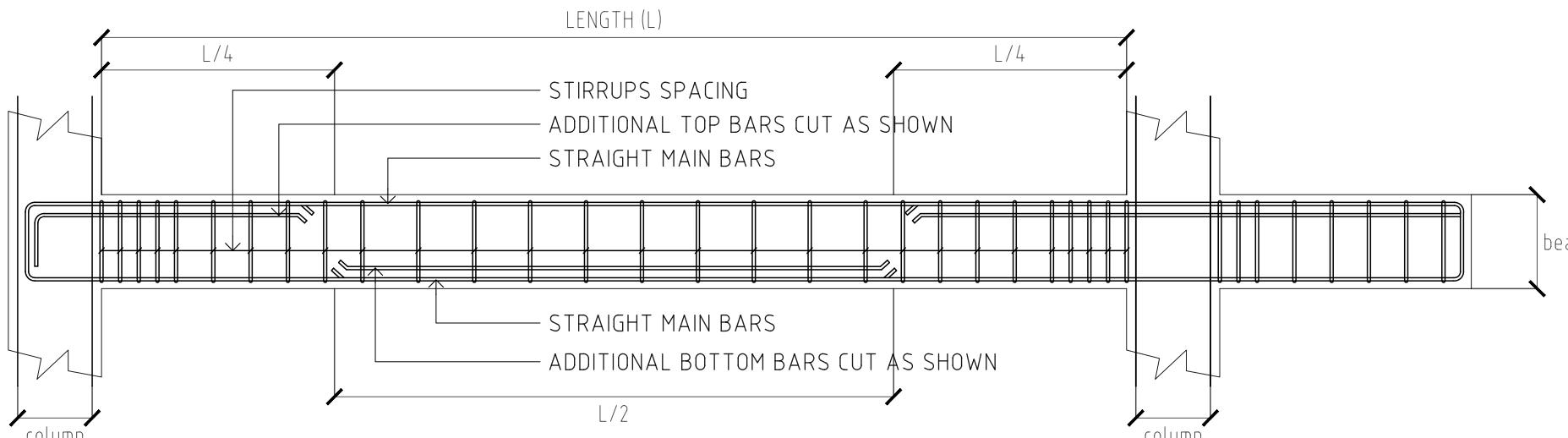
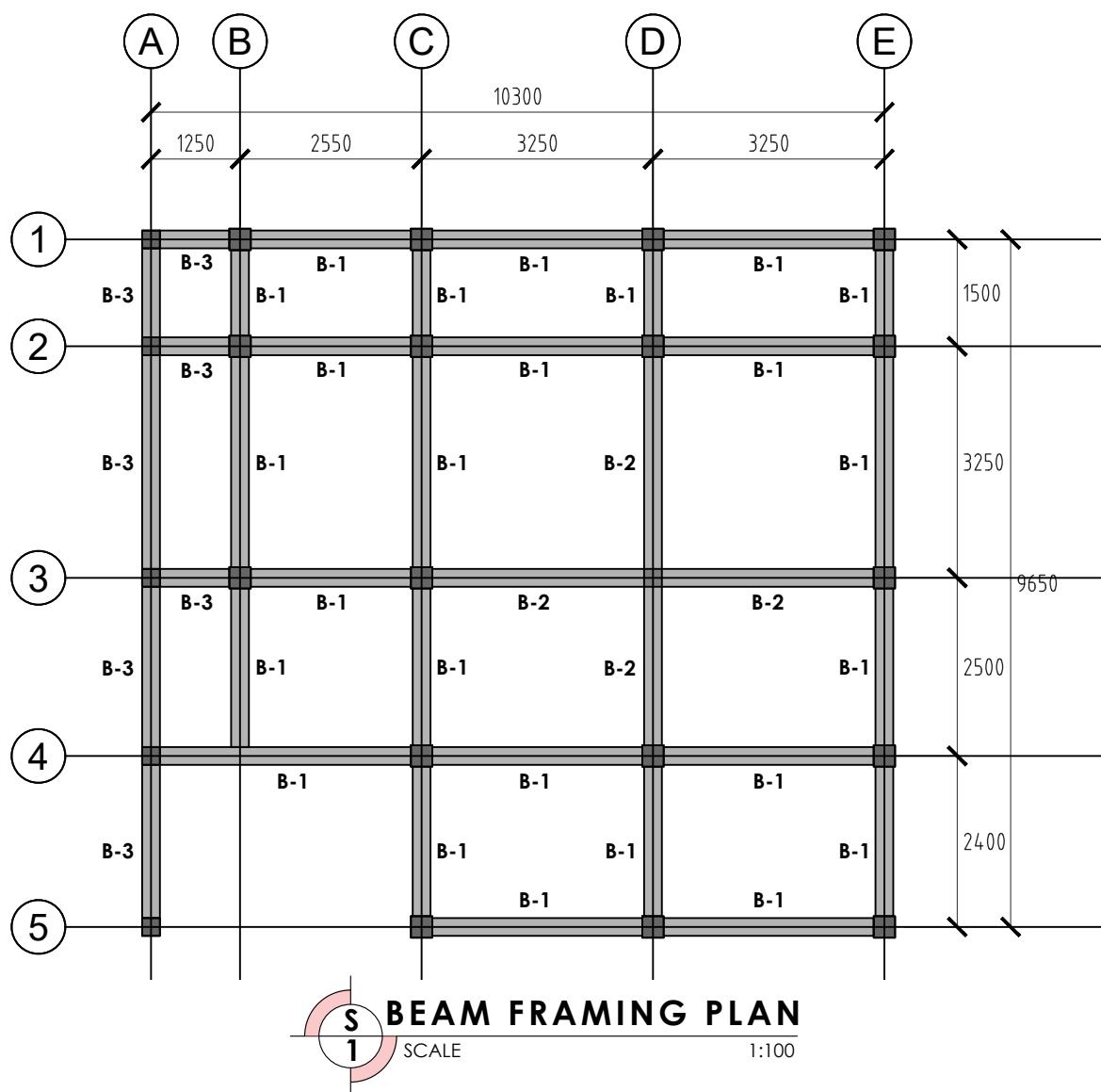
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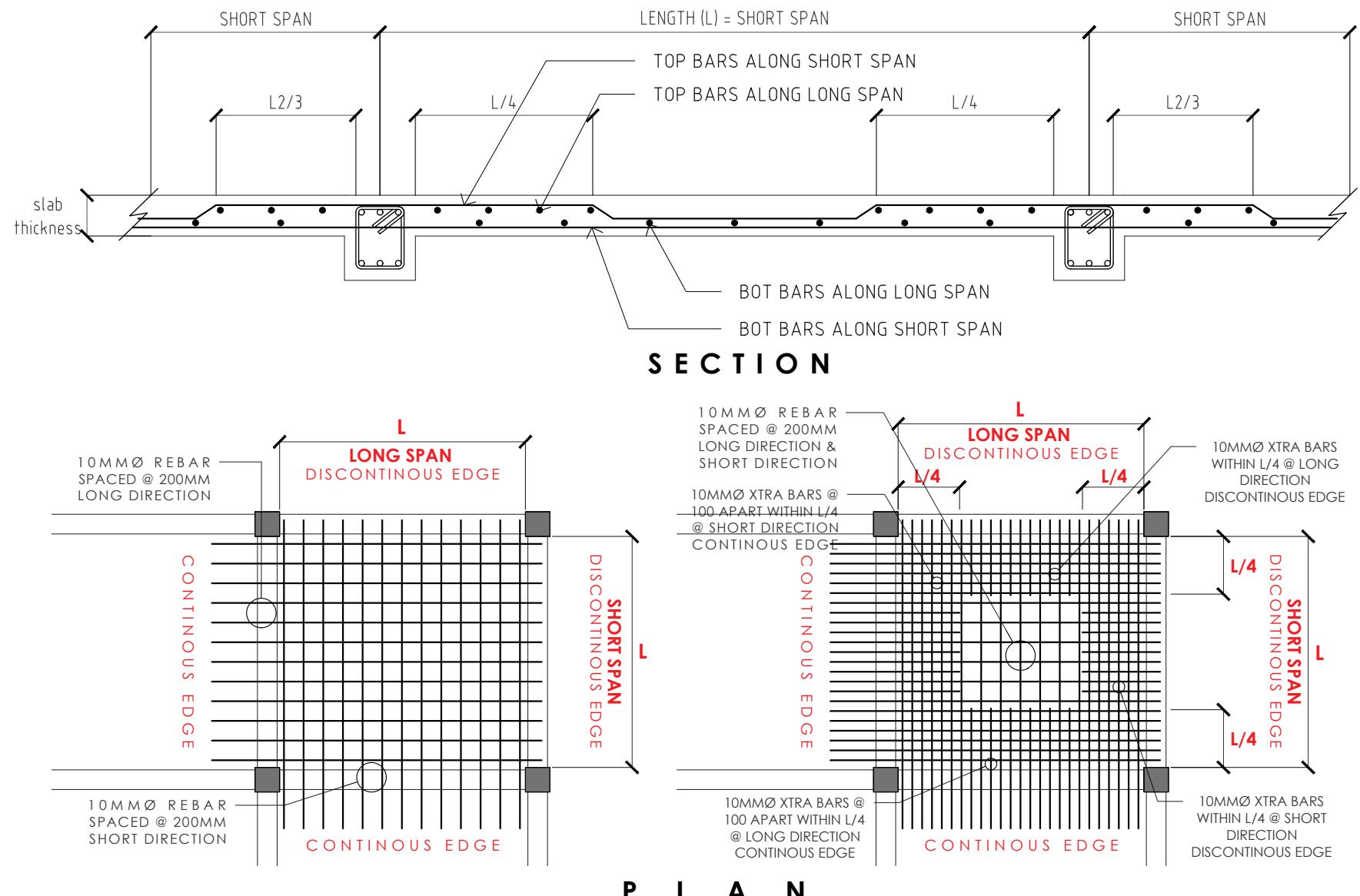
COLUMN & FOOTING DETAIL

1:100

SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:
	APRIL JHON S. BECHAYDA <small>REGISTERED CIVIL ENGINEER</small>	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	MARIVIC T. BUSTALIÑO	AS SHOWN	
	PRC NO: 0191647 PTR NO: 0337525				
	VALIDITY: 2026	VALIDITY: 2026			
	TIN: 691-450-220	ISSUED @: PRES. MA ROXAS	LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN		
					REV 0 (X/X/X)



S 2 TYPICAL BEAM DETAIL
SCALE 1:100

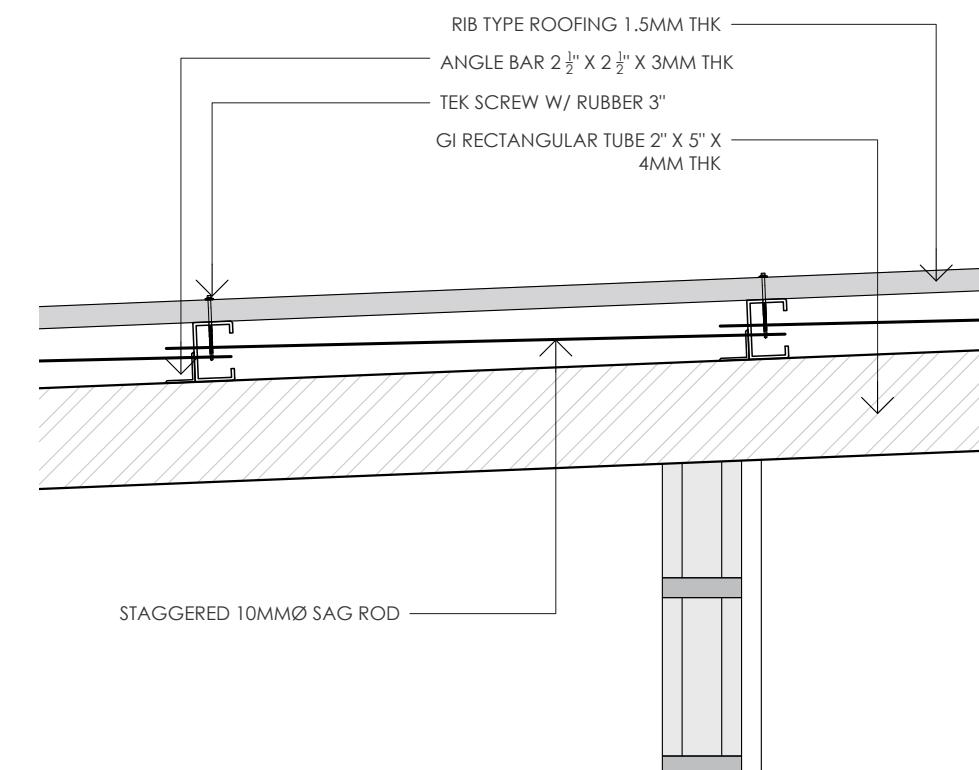
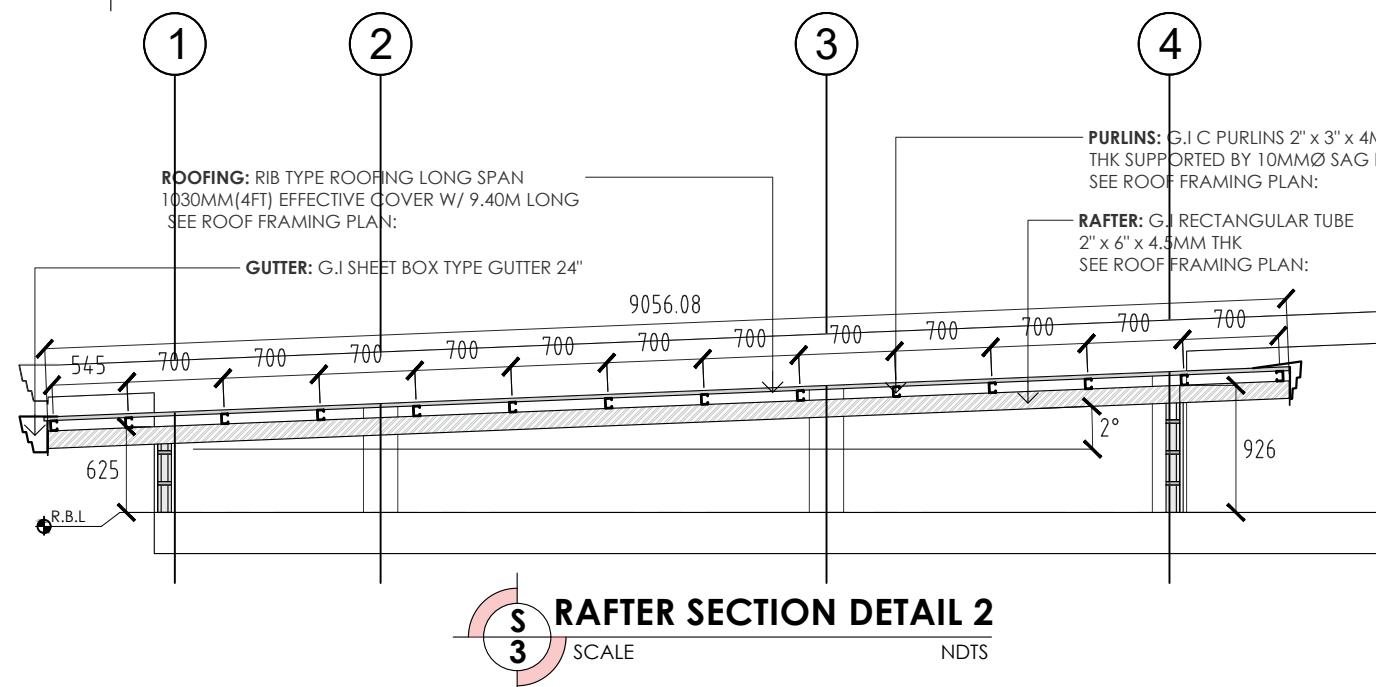
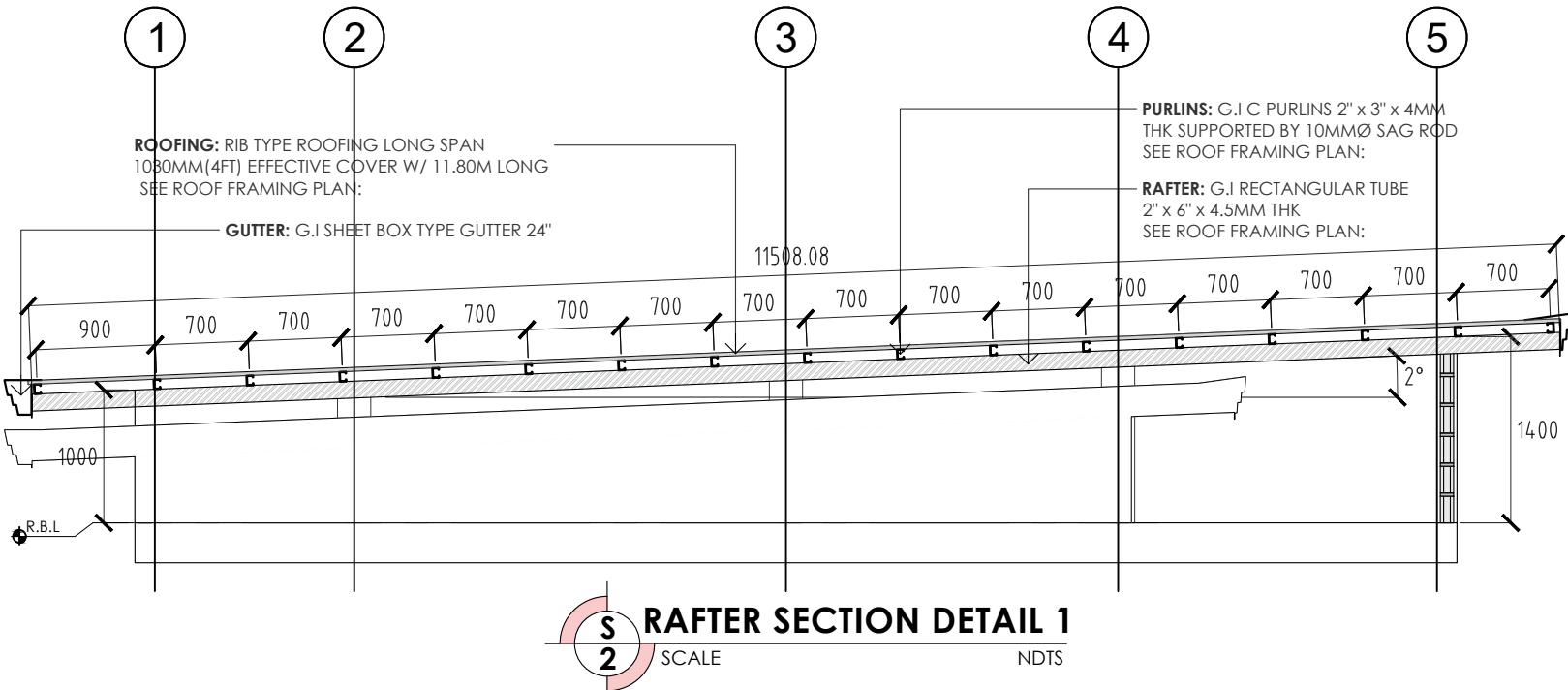
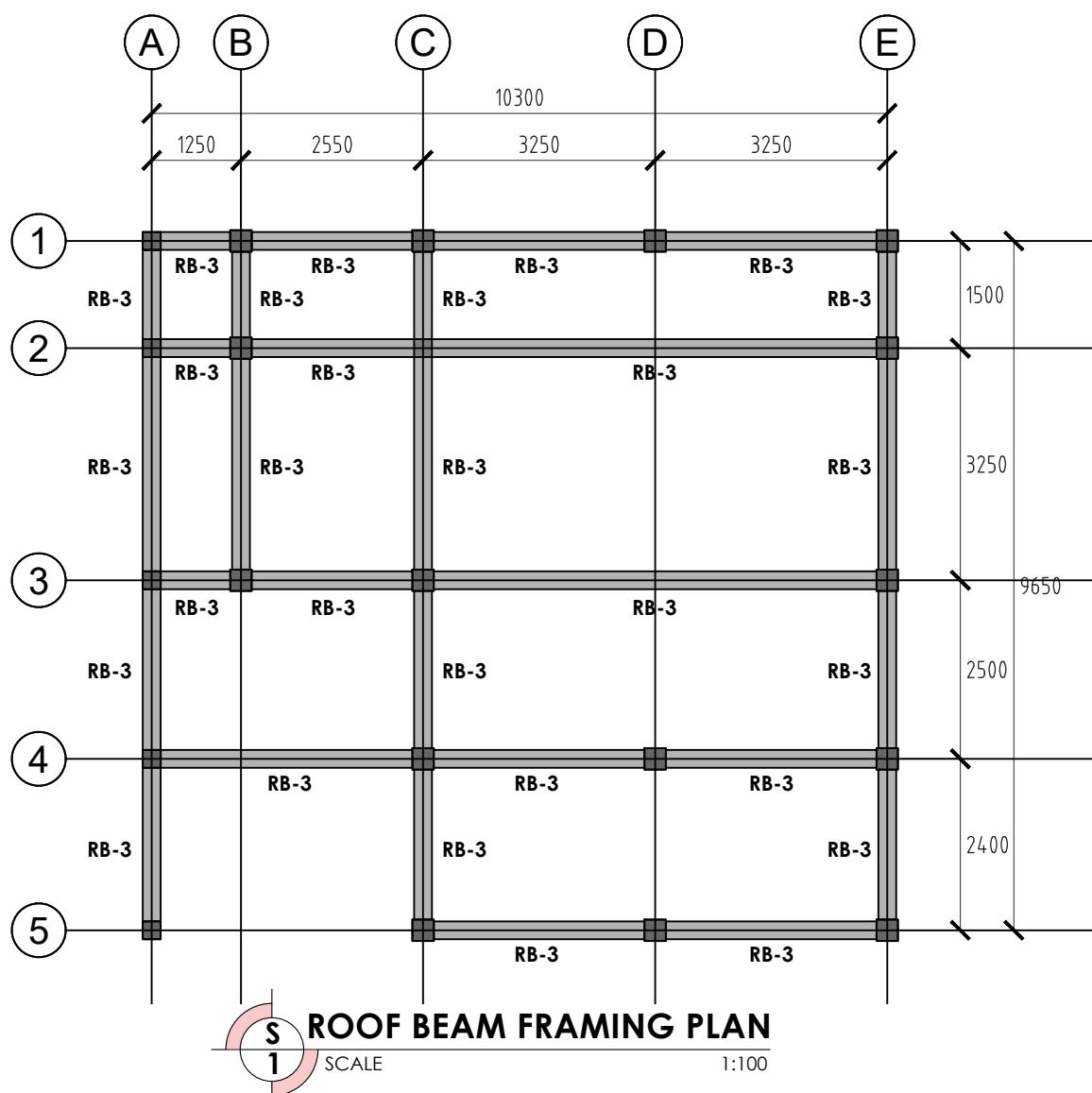


TWO WAY SLAB DETAIL

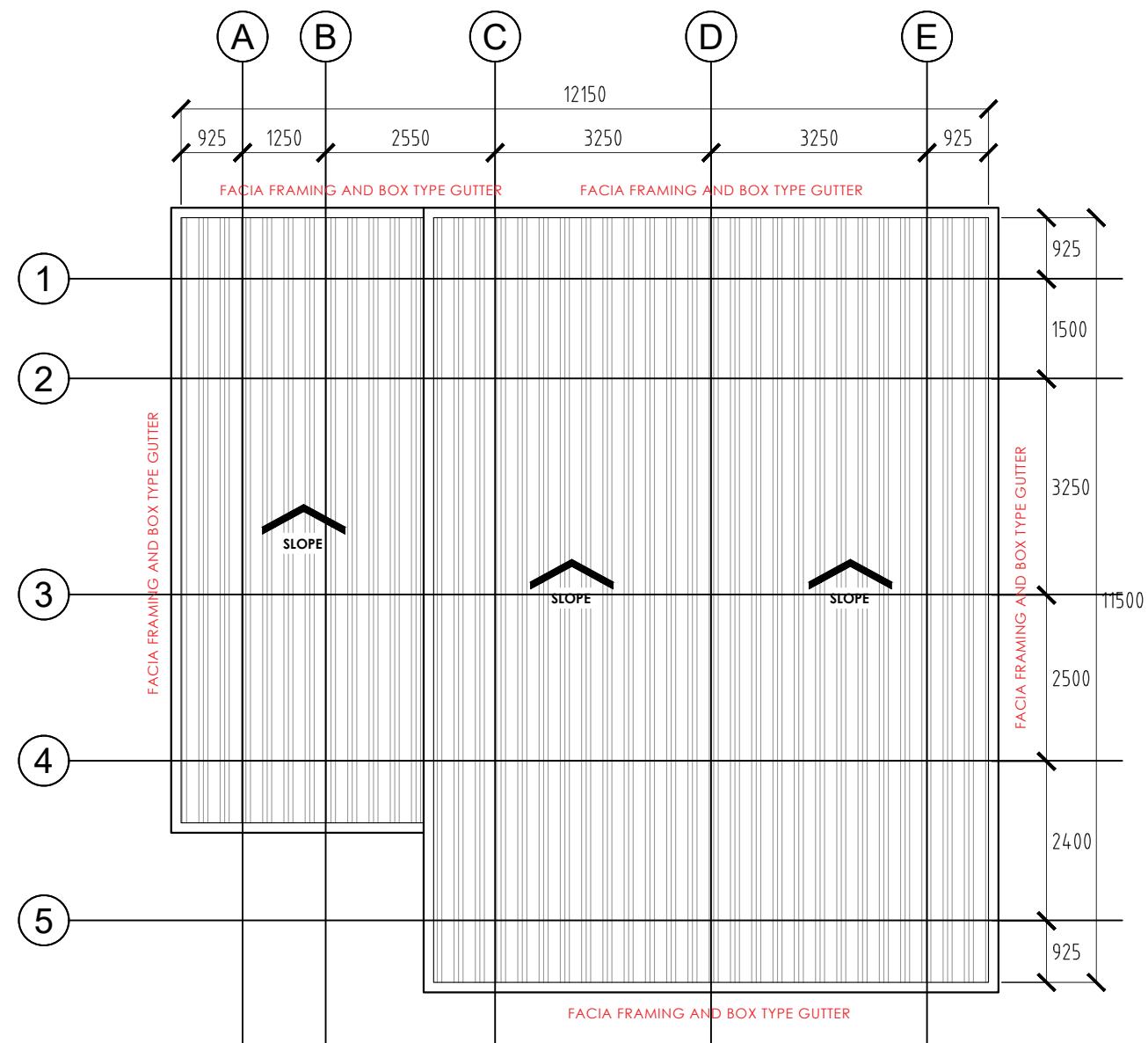
SCHEDULE OF TWO WAY SLAB

SLAB NO.	THICK (mm)	ALONG SHORT SPAN		ALONG LONG SPAN	
		TOP BARS	BOT BARS	TOP BARS	BOT BARS
S1	125	10mmØ @ 100mm	10mmØ @ 200mm	10mmØ @ 100mm	10mmØ @ 200mm

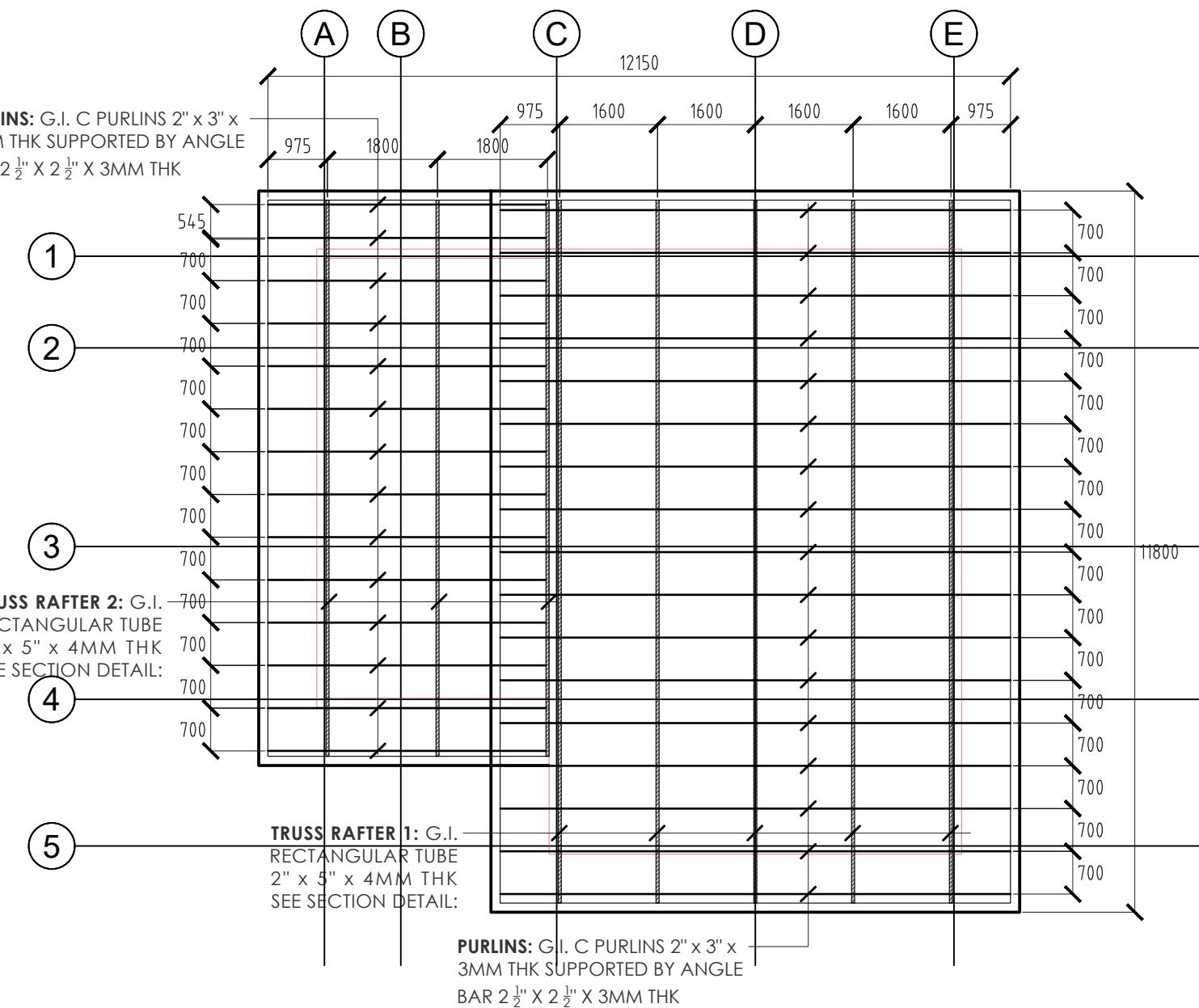
SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:
	<u>APRIL JHON S. BECHAYDA</u> <small>REGISTERED CIVIL ENGINEER</small>	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	<u>MARIVIC T. BUSTALIÑO</u>	AS SHOWN	
	PRC NO: 0191647 PTR NO: 0337525 VALIDITY: 2026 VALIDITY: 2026 TIN: 691-450-220 ISSUED @: PRES. MA ROXAS	LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN	ADDRESS: VCHOAI, BRGY. OBAY, POLANCO, ZDN		



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>MARIVIC T. BUSTALÍÑO</u>	AS SHOWN	S 5 6
PRC NO: 0191647	PTR NO: 0337525										
VALIDITY: 2026	VALIDITY: 2026										
TIN: 691-450-220	ISSUED @: PRES. MA ROXAS										



ROOFING PLAN
1:100
SCALE





ROOF FRAMING PLAN

SCALE 1:100

SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:
	<u>APRIL JHON S. BECHAYDA</u> <small>REGISTERED CIVIL ENGINEER</small>	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	<u>MARIVIC T. BUSTALIÑO</u>	AS SHOWN	
	PRC NO: 0191647 PTR NO: 0337525				
	VALIDITY: 2026	VALIDITY: 2026			
	TIN: 691-450-220	ISSUED @: PRES. MA ROXAS	LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN		

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 FOR 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 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.

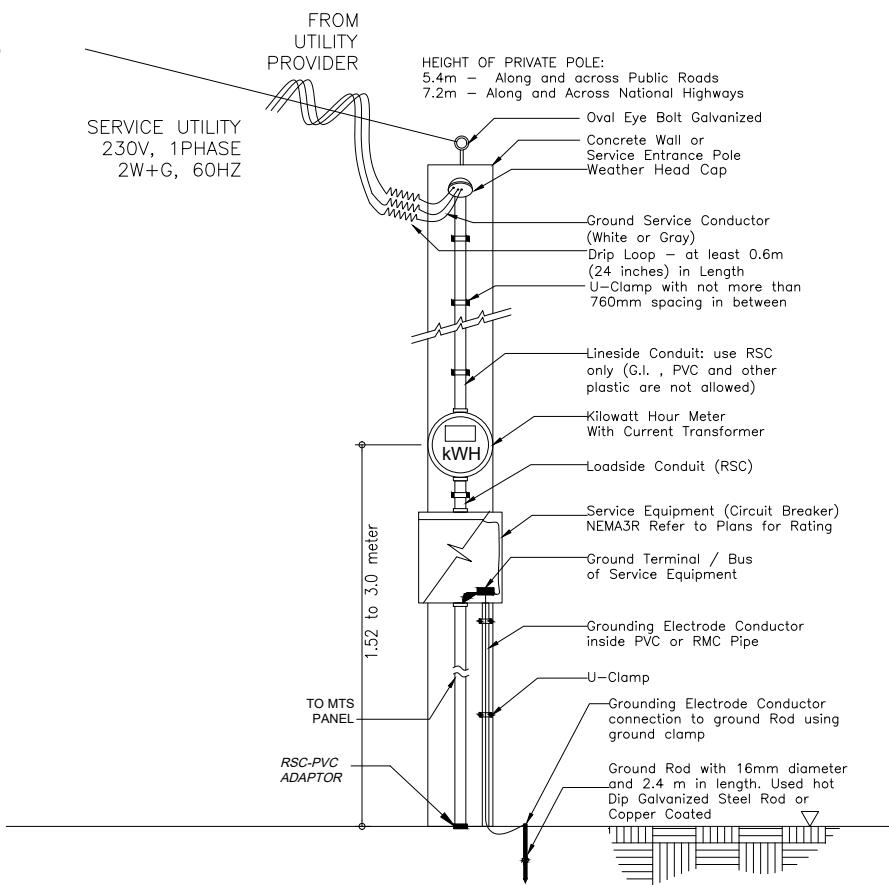
THE SPARE CIRCUITS SHALL BE PROVIDED WITH AN EMPTY ELECTRICAL PIPE SIZE OF 20mm dia. & 4" X 4" JUNCTION BOX WITH COVER THAT SHOULD EXTEND THE CEILING LINE OR OUTSIDE OF THE BUILDING.

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

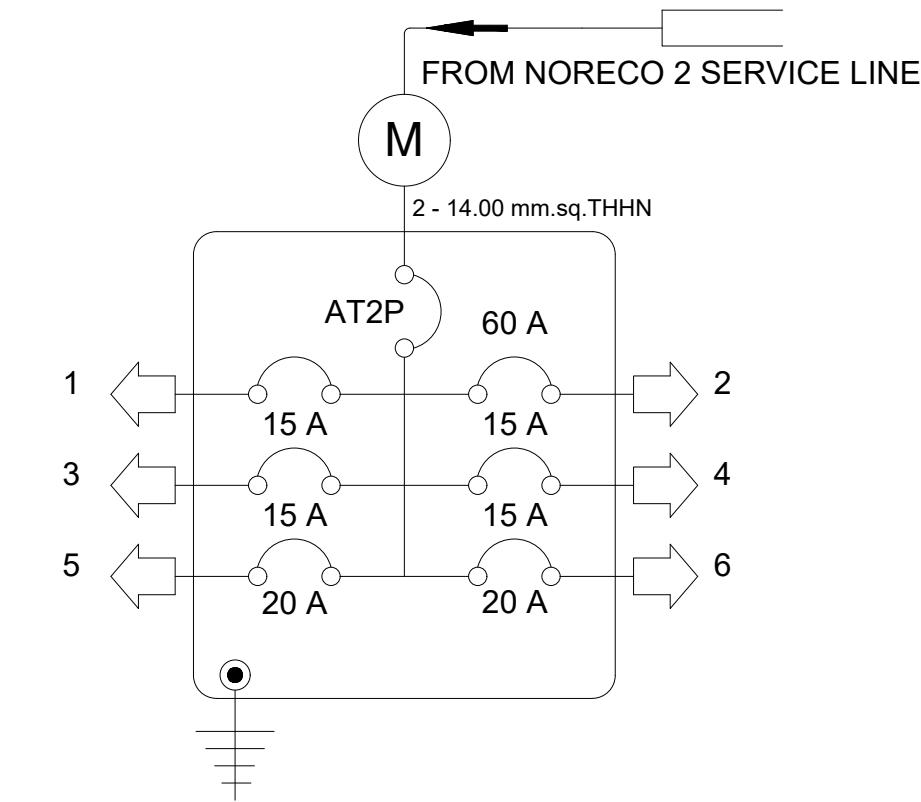
ELECTRICAL WORKS SHALL BE UNDER THE DIRECT SUPERVISION OF LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN AS PROVIDED FOR R.A. 7920.

LEGENDS

- SERVICE ENTRANCE
- KWH METER
- CIRCUIT BREAKER PANEL BOARD
- CIRCUIT HOMERUN TO PANEL BOARD
- DOWNLIGHT LAMP
- CONVENIENCE OUTLET
- SWITCH OUTLET
- SWITCH LINE
- CONVENIENCE OUTLET HOMERUN
- LIGHTING OUTLET CKT. HOMERUN



SERVICE POLE DETAIL



SCHEMATIC RISER DIAGRAM

SCHEDULE OF LOADS

CKT. NO.	LOAD DESCRIPTION	VOLT	VA	AMP	PROTECTION			CONDUCTOR SIZE	CONDUIT
					A T	KAIC	POLE		
C1	LIGHTING OUTLET (4nos=L.O.)	220	400	1.82	15	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C2	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.
C3	LIGHTNING OUTLET (6nos=C.O.)	220	600	2.73	15	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C4	LIGHTING OUTLET (4nos=L.O.)	220	400	1.82	15	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C5	CONVENIENCE OUTLET (7nos=C.O.)	220	1400	6.36	20	10	2	2-3.5mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.
C6	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.
MAIN			1320	21.36	100	60	12	2-8.0mm ² THHN, COPPER +2.0mm ² THHN, P.E.	25 mm dia.

Computation of Load:

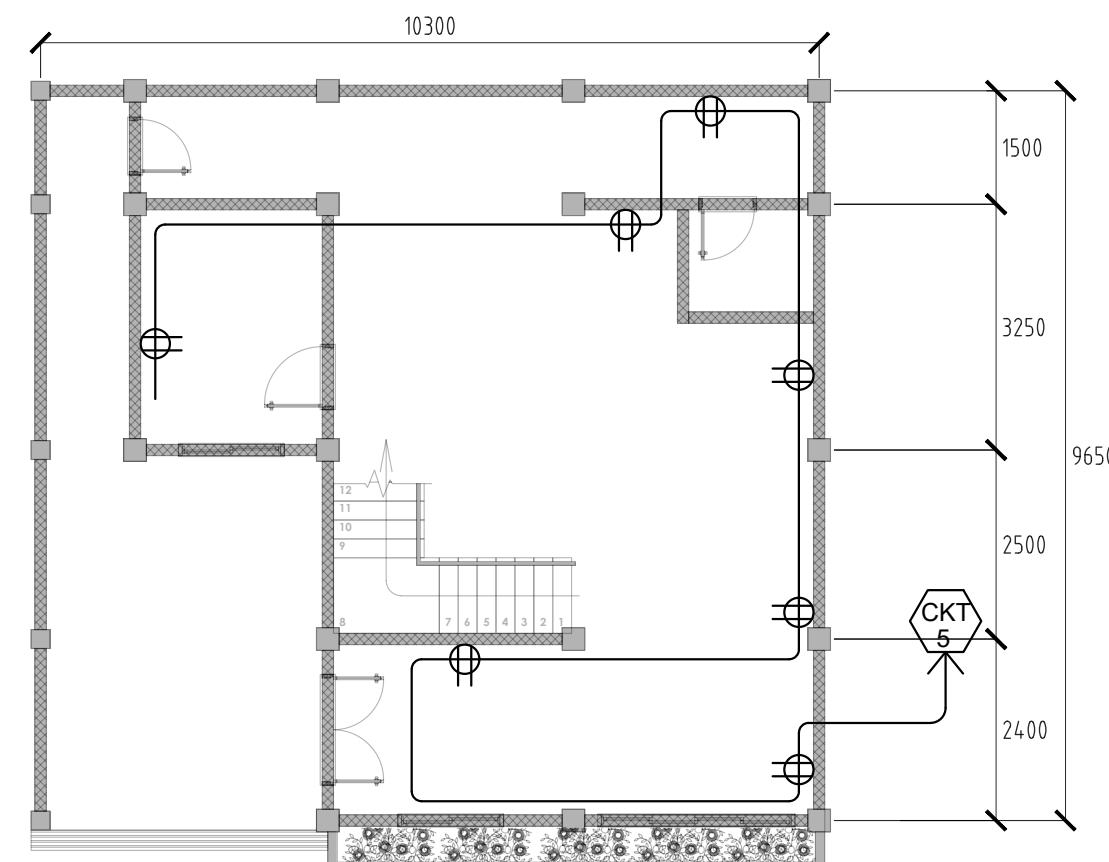
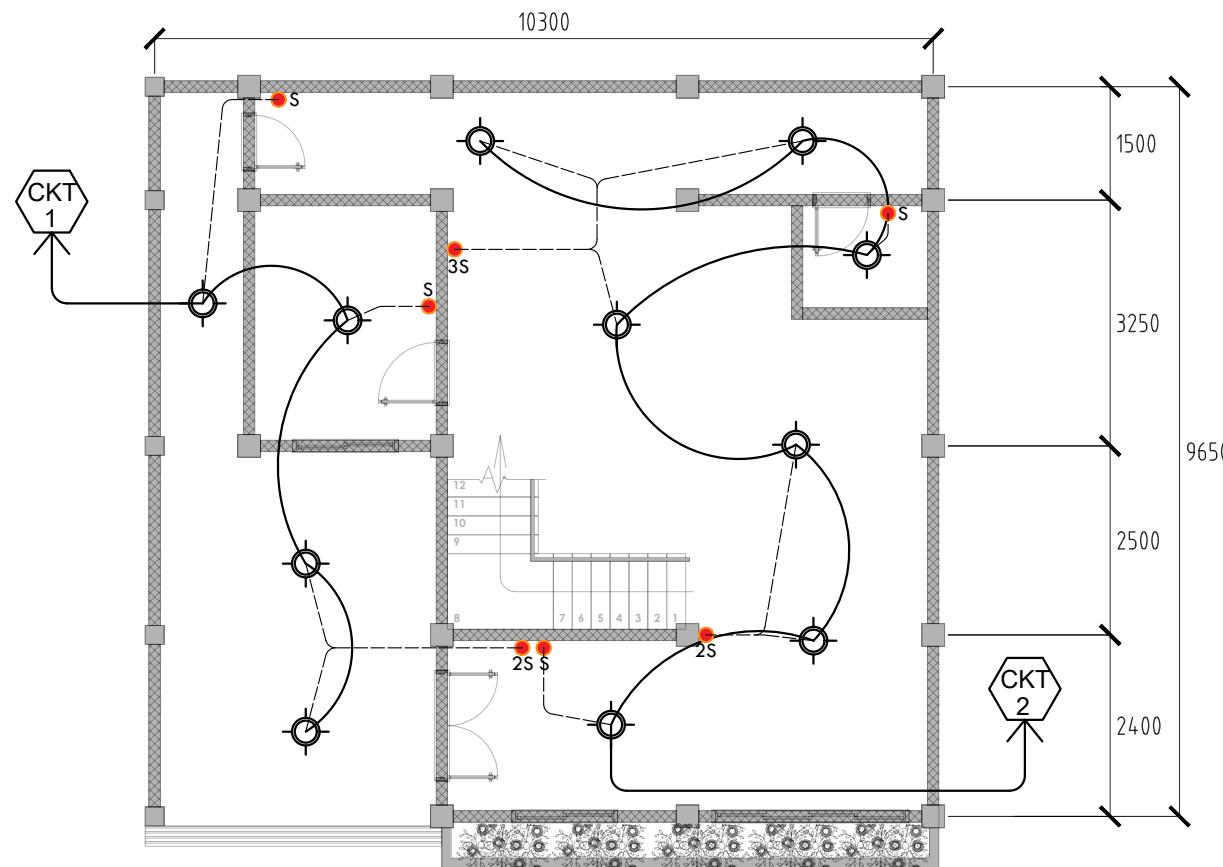
I. MAIN FEEDER :

$$I_{FL} = \frac{4700 + 0.20(4700)}{220 (1.73)} \quad I_{FL} = \frac{5640}{380.60} = 14.82 \text{ A} \quad \text{Use } 8.00 \text{ mm}^2 \text{ THHN}$$

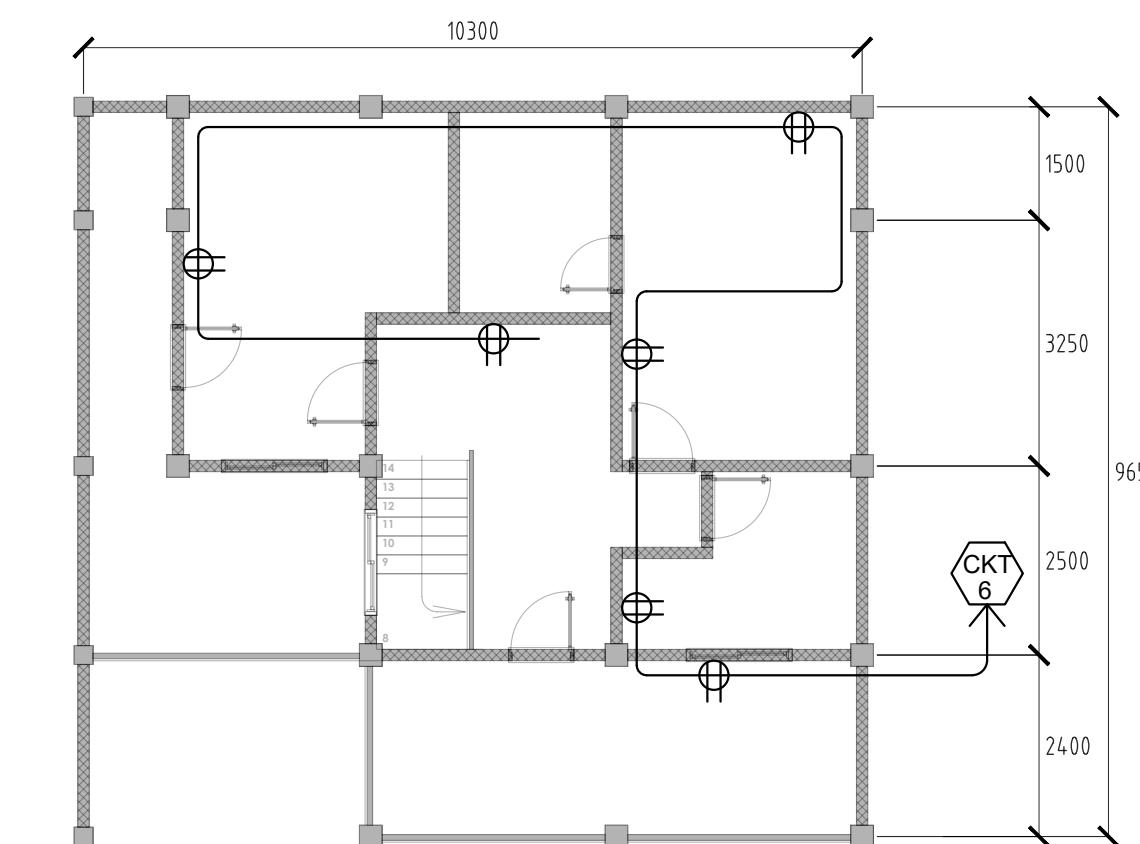
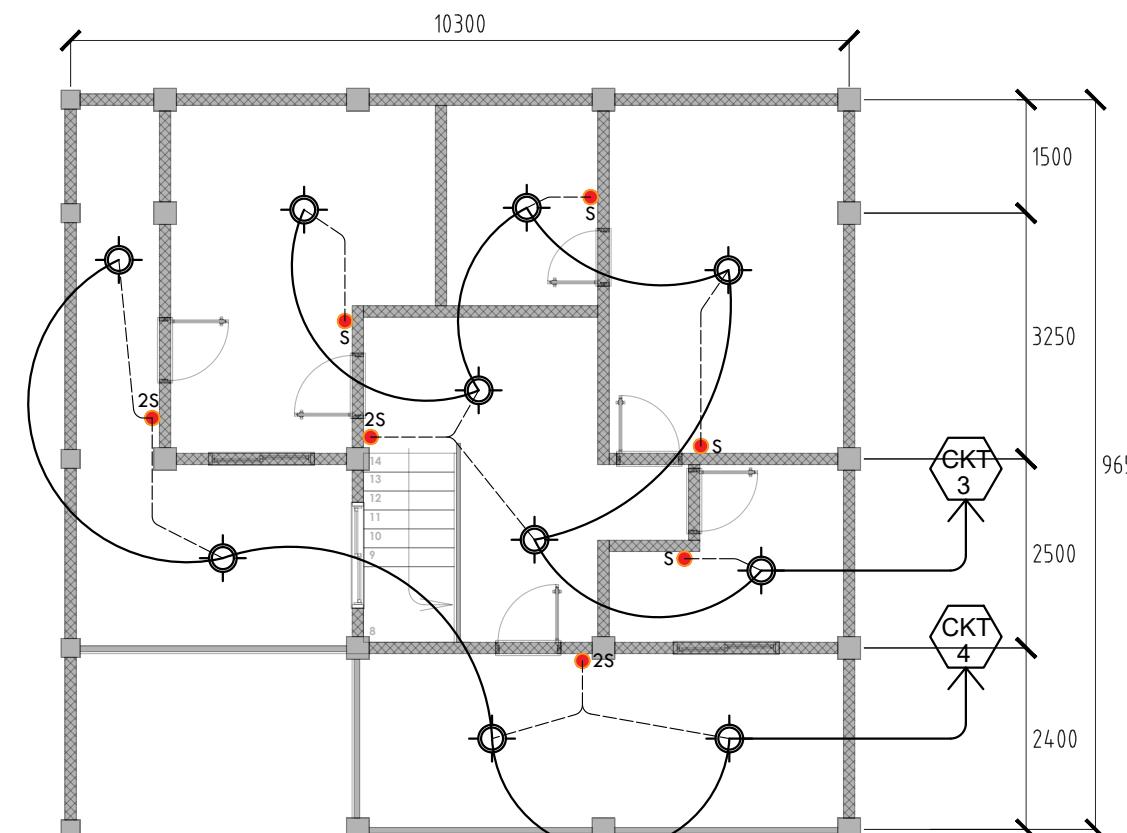
II. MAIN PROTECTION :

$$14.82 \times 1.25 = 18.52 \text{ A} \\ \text{Use 40AT, 2P, 220V, 50KAIC} \\ \text{BOLT ON TYPE CB}$$

SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:						
<p>PROFESSIONAL ELECTRICAL ENGINEER</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PRC NO:</td> <td style="width: 50%;">PTR NO:</td> </tr> <tr> <td>VALIDITY:</td> <td>VALIDITY:</td> </tr> <tr> <td>TIN:</td> <td>ISSUED @:</td> </tr> </table>		PRC NO:	PTR NO:	VALIDITY:	VALIDITY:	TIN:	ISSUED @:	<p>PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING</p>		<p>AS SHOWN</p>	<p>E 1 6</p>
		PRC NO:	PTR NO:								
		VALIDITY:	VALIDITY:								
		TIN:	ISSUED @:								
<p>MARIVIC T. BUSTALÍÑO</p>											
<p>LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN</p>											
<p>ADDRESS: VCHOAI, BRGY. OBAY, POLANCO, ZDN</p>											



GROUND FLOOR LIGHTNING & POWER LAYOUT PLAN



SECOND FLOOR LIGHTNING & POWER LAYOUT PLAN

SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:
	PROFESSIONAL ELECTRICAL ENGINEER	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	MARIVIC T. BUSTALIÑO	AS SHOWN	E 2 6
	PRC NO: PTR NO: VALIDITY: VALIDITY: TIN: ISSUED @:	LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN	ADDRESS: VCHOAI, BRGY. OBAY, POLANCO, ZDN		REV 0 (X/X/X)

GENERAL NOTES ON PLUMBING / SANITARY SYSTEM

1. 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.

2. ALL PLUMBING / SANITARY WORKS, INSTALLATIONS AND WORKMANSHIP SHALL BE SUPERVISED BY A DULY LICENSED PLUMBING ENGINEER / SANITARY ENGINEER.

3. 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.

4. 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%)."

5. 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.).

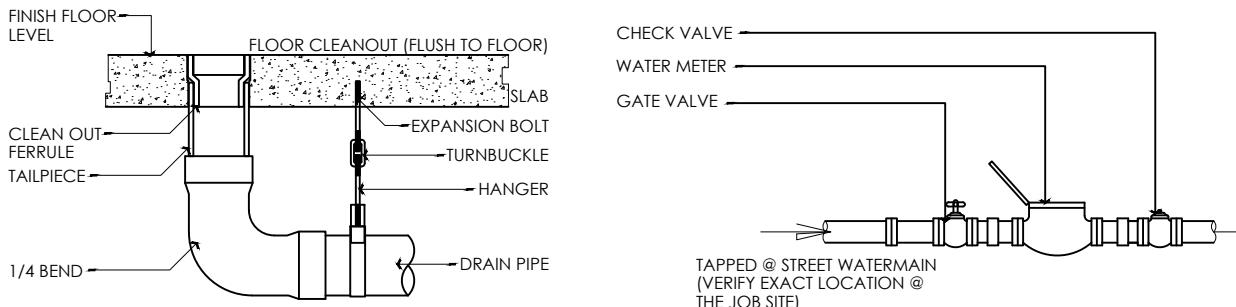
6. COLD WATER SUPPLY PIPE ESPECIALLY GALVANIZED IRON PIPE SHALL BE COATED WITH AN APPROVED ANTI-RUST PAINT / RED OXIDE / RED LEAD PAINT.

7. NO BUILDING / HOUSE COLD WATER SUPPLY (CWS) PIPE SHALL BE LESS THAN 13 mm Ø (1/2 Ø) UNLESS OTHERWISE SPECIFIED.

8. SYSTEM OF TEST. ALL THE PIPING OF THE PLUMBING SYSTEM SHALL BE TESTED WITH WATER HAVING A PRESSURE HEAD OF ATLEAST 1500mm (5 FT.).

9. 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.

10. ALL ITEMS OR PARTS, SUCH AS FITTINGS, VALVES, FIXTURES, AND / OR APPURTENANCES, 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.

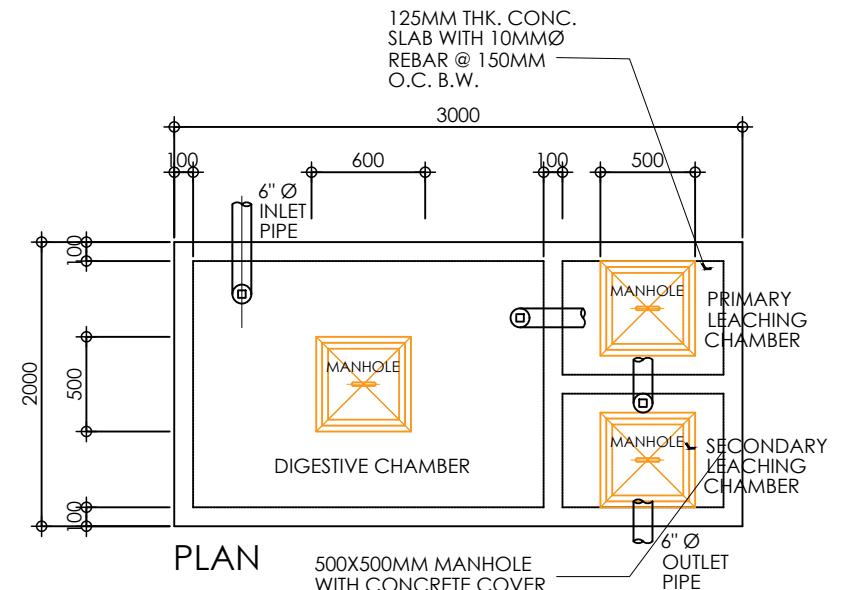


LEGENDS:

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

ABBREVIATION/BRANCH SIZING:

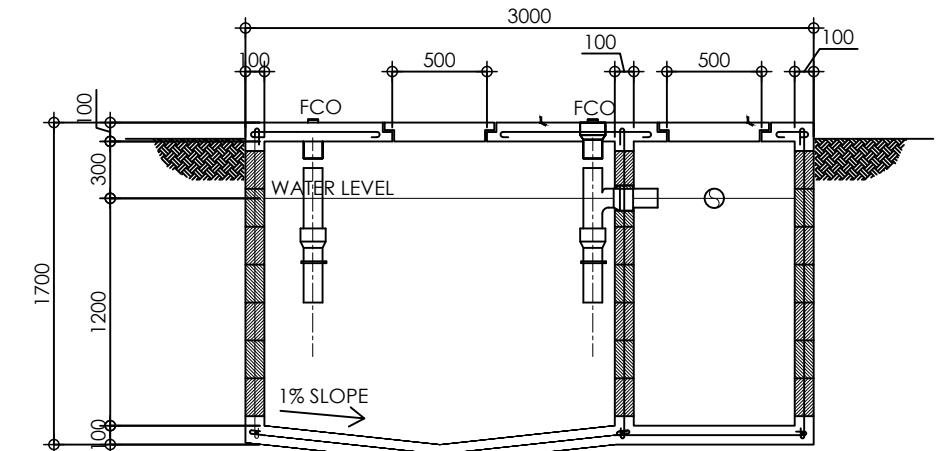
ABBR.	DESCRIPTION	BRANCH SIZE SP / DP	BRANCH SIZE CWL/HWL
AV	ANGLE VALVE WITH SUPPLY FLEXIBLE PIPE	13mmØ	
B	BIDET (S-TRAP TYPE)	50mmØ	13mmØ
BD	BALCONY DRAIN (UNILEX U-623 OR EQUAL)	75mmØ	
BV	BALL VALVE (KITZ OR EQUAL)		
CB	CATCH BASIN		
CO	CLEANOUT (UNILEX U-308 OR EQUAL)		
CV	CHECK VALVE (KITZ OR EQUAL)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



PLAN

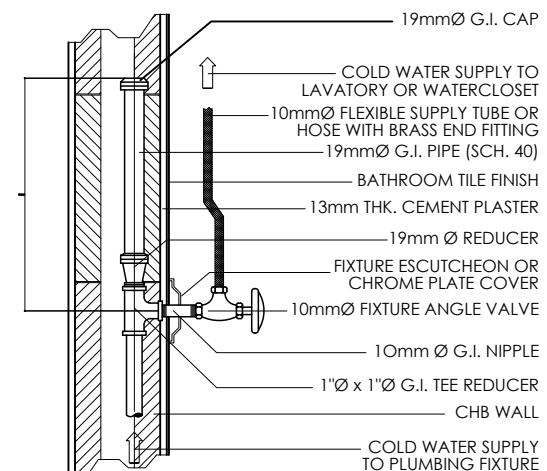
500X500MM MANHOLE WITH CONCRETE COVER

6" Ø OUTLET PIPE

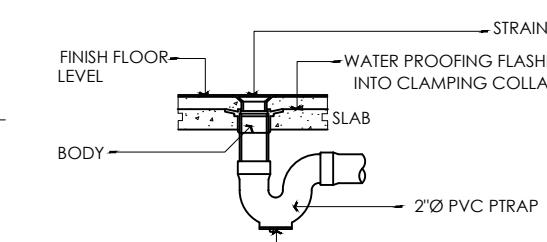


*VERIFY STRUCTURAL DESIGN WITH STRUCTURAL ENGINEER

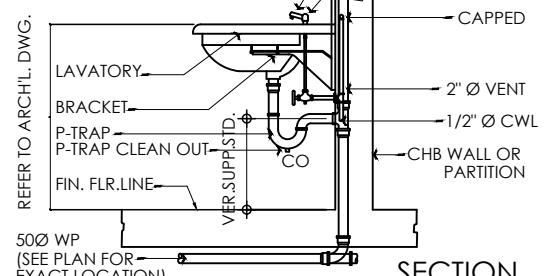
SECTION



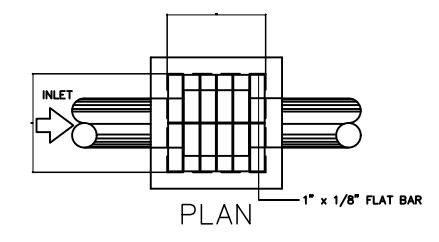
SECTION



SECTION

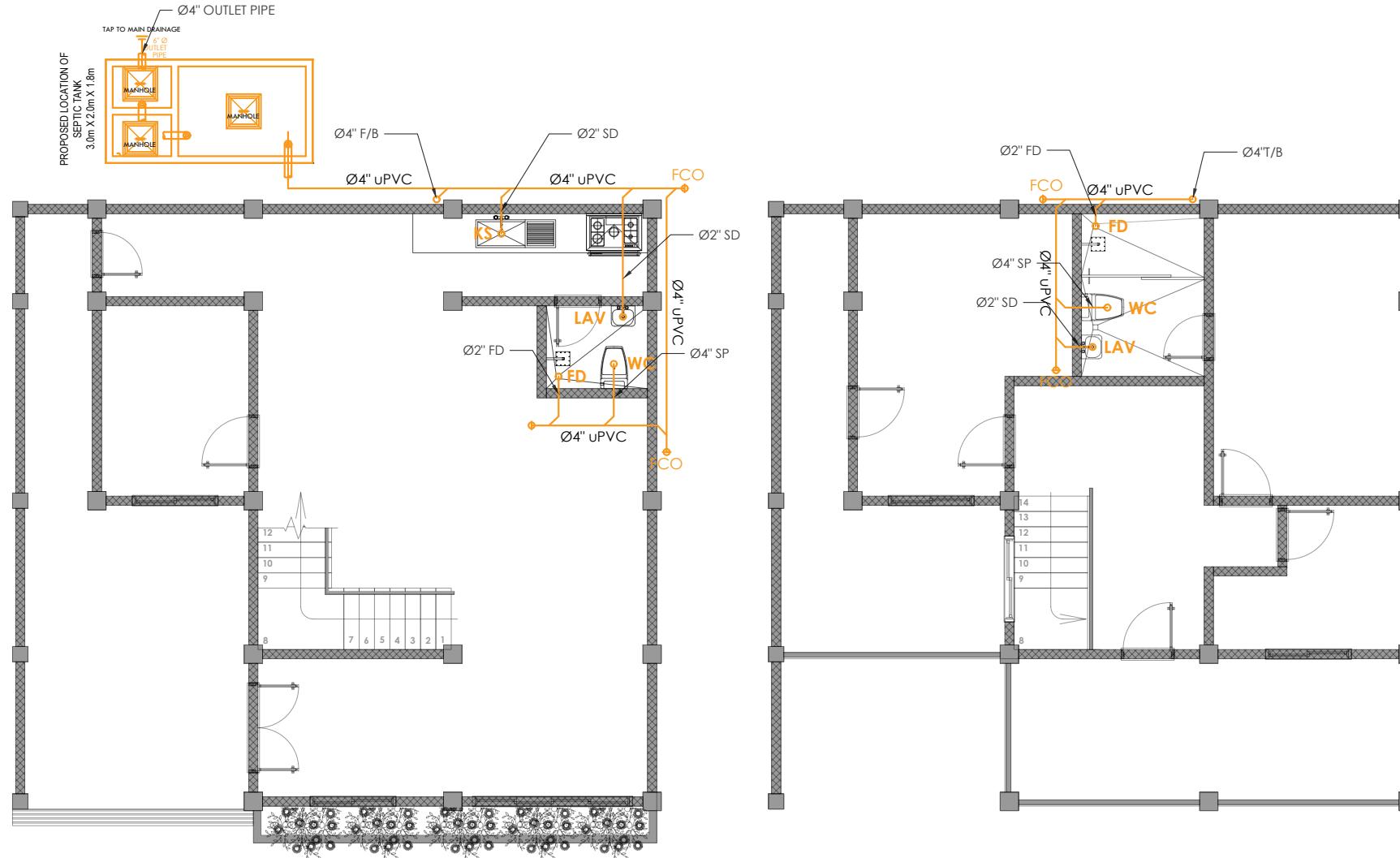


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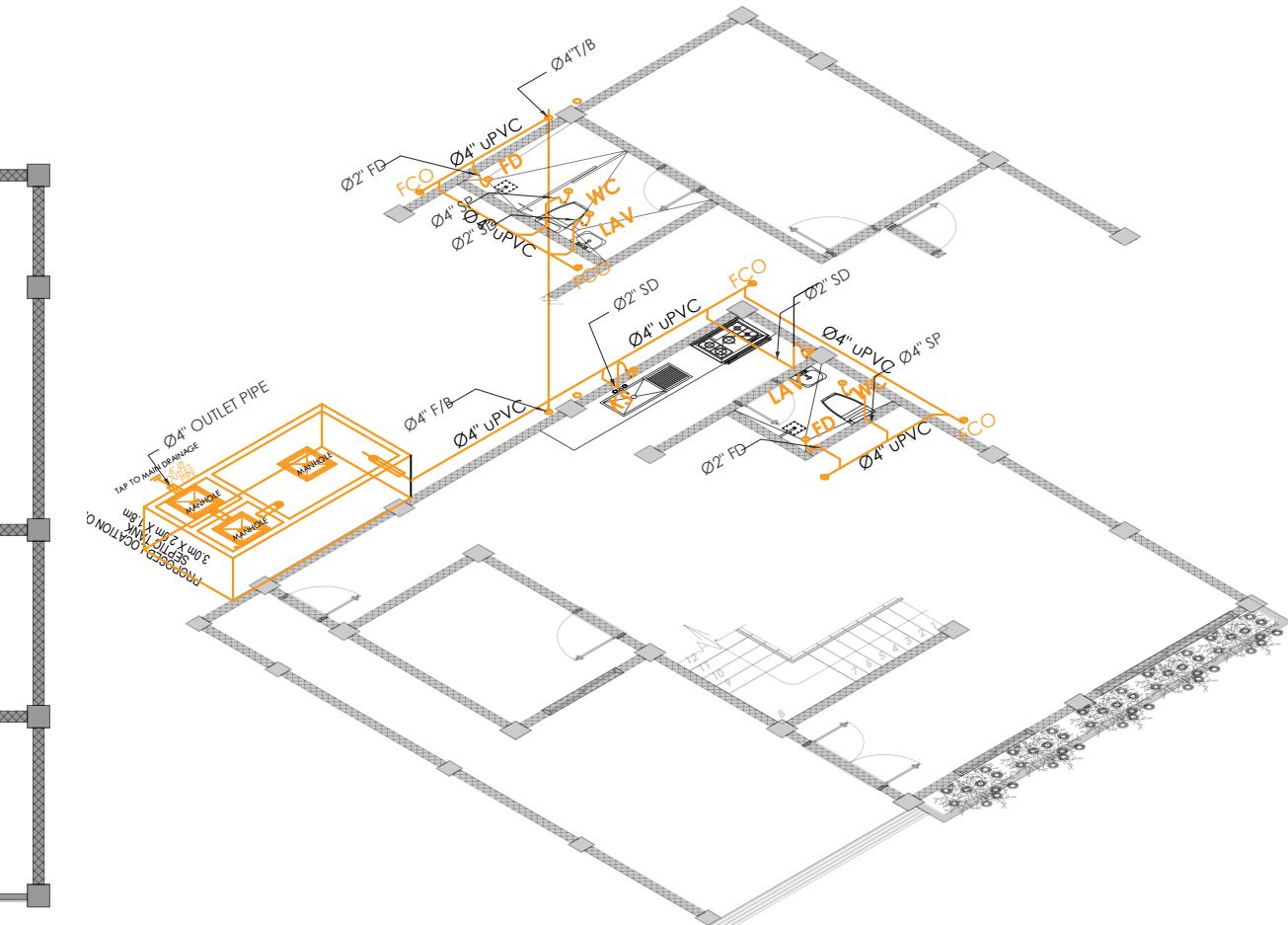
SECTION

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		PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	MARIVIC T. BUSTALÍÑO	AS SHOWN	
	MASTER PLUMBER				
PRC NO:	PTR NO:				
VALIDITY:	VALIDITY:				
TIN:	ISSUED @:	LOCATION: VCHOAI, BRGY. OBAY, POLANCO, ZDN	ADDRESS: VCHOAI, BRGY. OBAY, POLANCO, ZDN	REV 0 (X/X/X)	



P GROUND FLOOR SANITARY LAYOUT
1 SCALE
1:100

P SECOND FLOOR SANITARY LAYOUT
2 SCALE
1:100



P ISOMETRIC SANITARY LAYOUT
3 SCALE
1:100

SEAL:	DESIGNED BY:	PROJECT TITLE:	PROJECT OWNER:	SHEET:	SHEET NO.:
	<p>MASTER PLUMBER</p> <hr/> PRC NO: PTR NO: VALIDITY: VALIDITY: TIN: ISSUED @:	PROPOSED CONSTRUCTION OF TWO STOREY RESIDENTIAL BUILDING	MARIVIC T. BUSTALIÑO	AS SHOWN	P 2 6
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