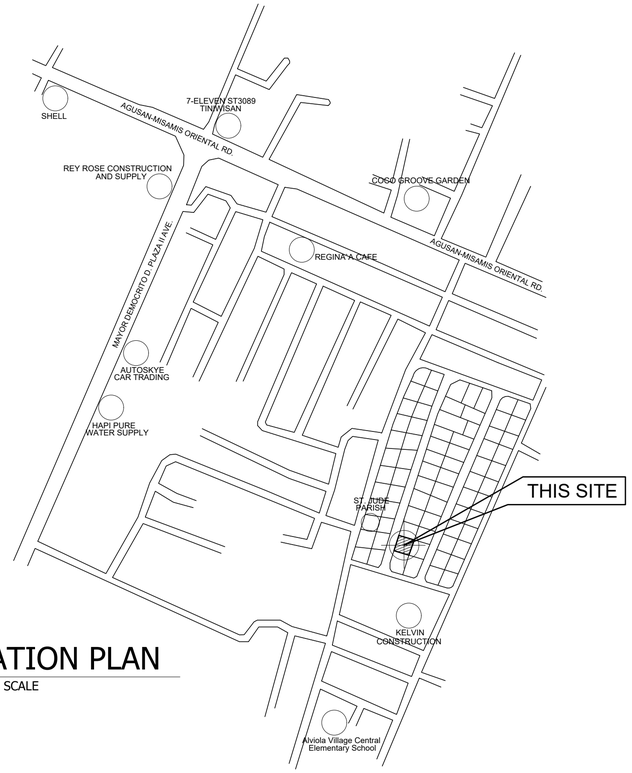


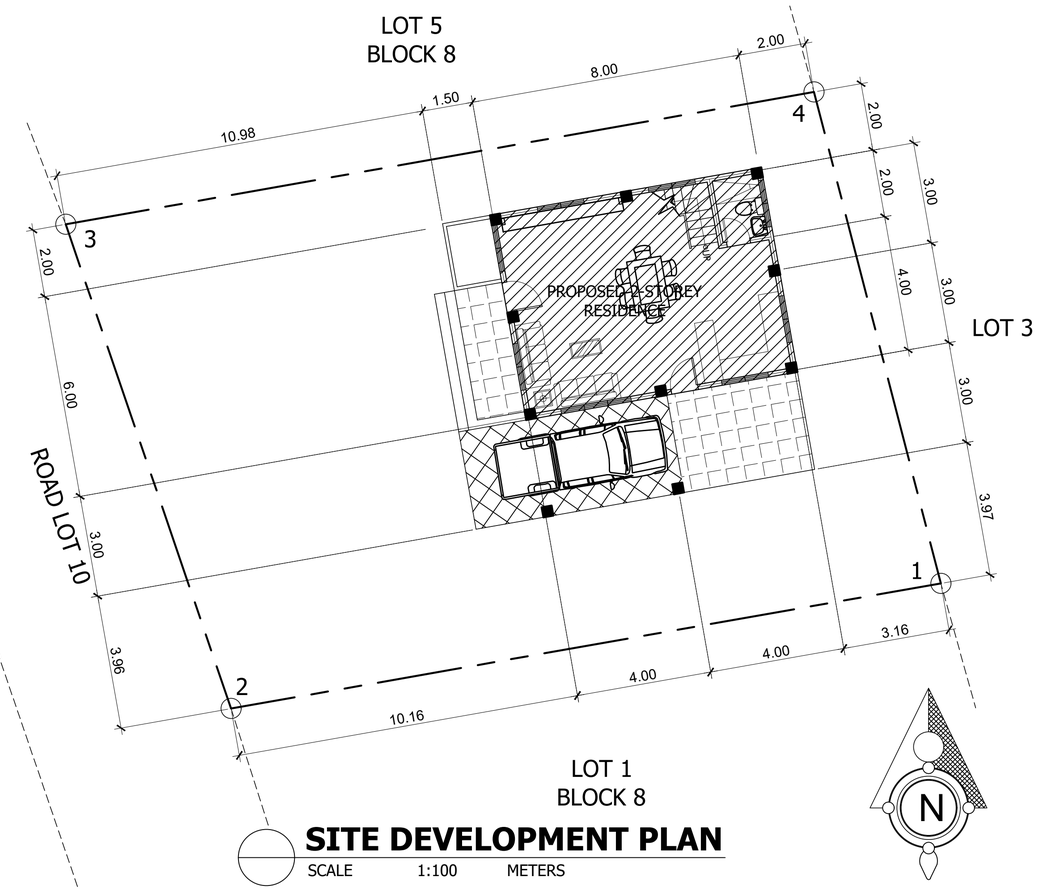
LOCATION PLAN

NOT TO SCALE

PERSPECTIVE

TECHNICAL LOT DESCRIPTIONS:

MON. #	BEARING	DISTANCE
1 - 2	S 80 DEG. 00' W	21.32 M
2 - 3	N 18 DEG. 51' W	15.14 M
3 - 4	N 79 DEG. 58' E	22.48 M
4 - 1	S 14 DEG. 29' E	15.03 M



SITE DEVELOPMENT PLAN

SCALE 1:100 METERS

REPUBLIC OF THE PHILLIPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

RECOMMENDING ISSUANCE AS TO:

HEAD SECTION: DATE:

ISSUED BY:

BUILDING OFFICIAL: DATE:

AS TO : LAND USE AND ZONING — HEAD SECTION — DATE

AS TO : LINE AND GRADE — HEAD SECTION — DATE

AS TO : ARCHITECTURAL — HEAD SECTION — DATE

AS TO : STRUCTURAL — HEAD SECTION — DATE

AS TO : SANITARY — HEAD SECTION — DATE

AS TO : ELECTRICAL — HEAD SECTION — DATE

AS TO : MECHANICAL — HEAD SECTION — DATE

AS TO : — HEAD SECTION — DATE

FROM THE OFFICE OF:	**SEAL**	FROM THE OFFICE OF:	REG NO. :	PROJECT TITLE:	APPROVED AS TO PLAN:	SHEET CONTENTS	SHEET NO:
			DATE ISSUED :	PROPOSED 2-STOREY RESIDENCE	JOHN ERIC S. BUAL AND LEAH B. BUAL	**AS SHOWN...**	**A** **1** **7**
		CIVIL ENGINEER / ARCHITECT	PTR NO. :		OWNER		
			DATE ISSUED :				
ADDRESS:		ADDRESS:	TIN NO.	ADDRESS:	ADDRESS:		DRAFTED BY: LOCAL DRAFTSMAN
			DATE ISSUED :				

REPUBLIC OF THE PHILLIPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

RECOMMENDING ISSUANCE AS TO:

HEAD SECTION: DATE:

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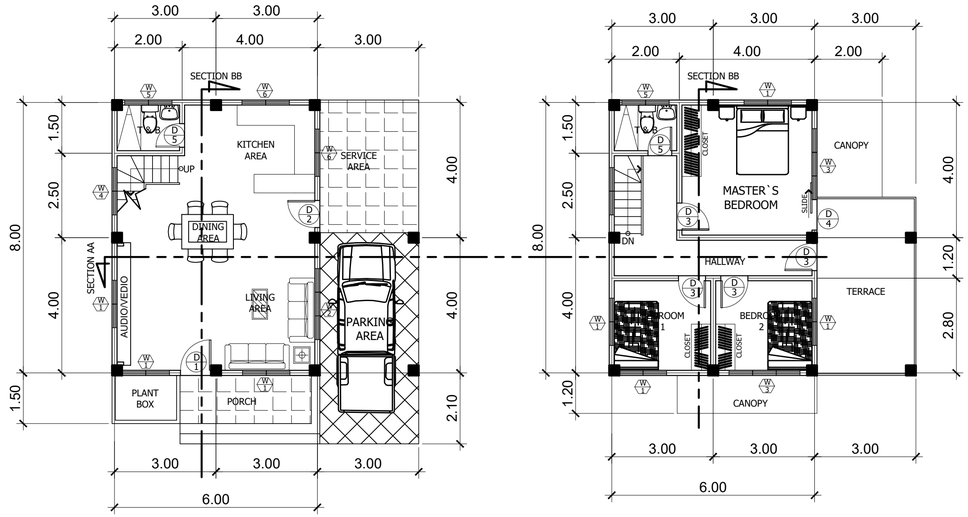
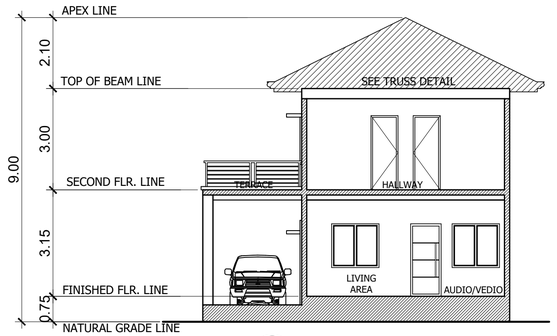
BUILDING OFFICIAL: DATE:

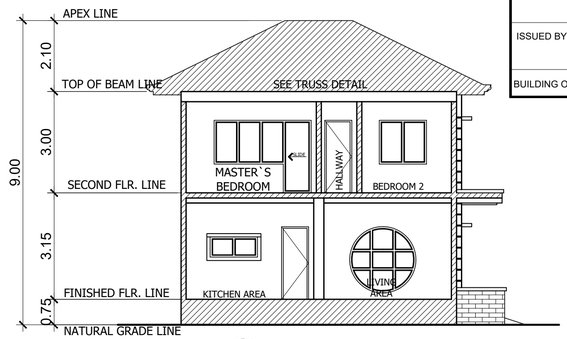


GROUND FLOOR PLAN
SCALE 1:100 METERS

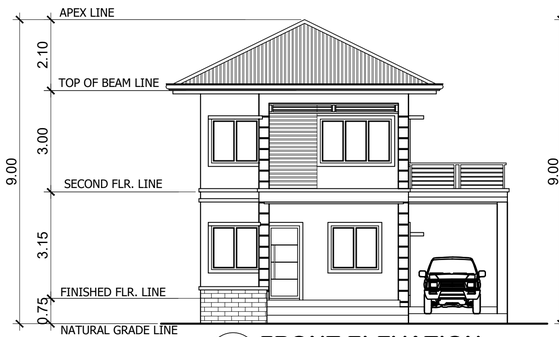
SECOND FLOOR PLAN
SCALE 1:100 METERS



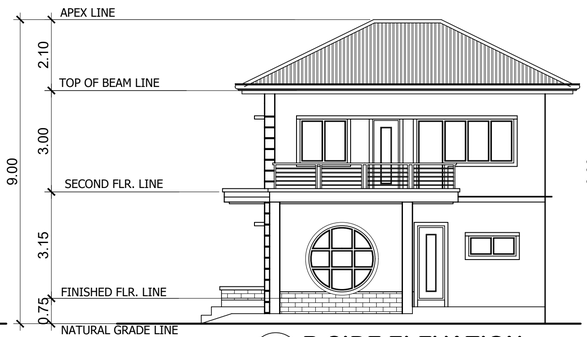
SECTION AA
SCALE : 1:100 M.



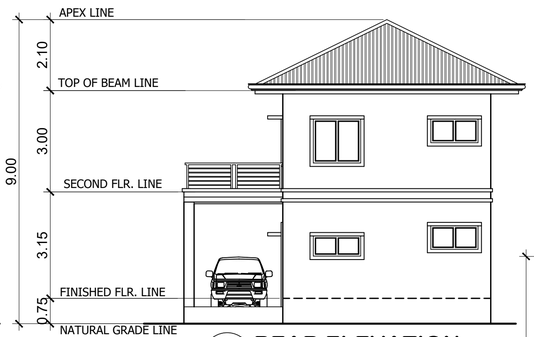
SECTION BB
SCALE : 1:100 M.



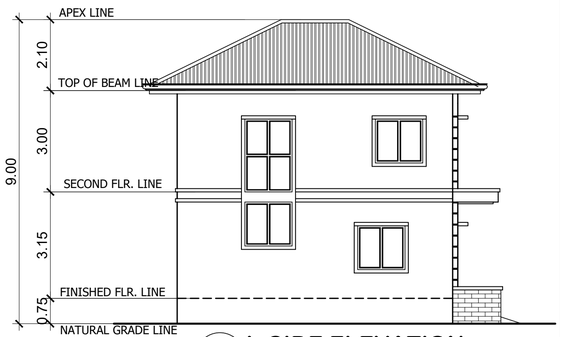
FRONT ELEVATION
SCALE : 1:100 M.



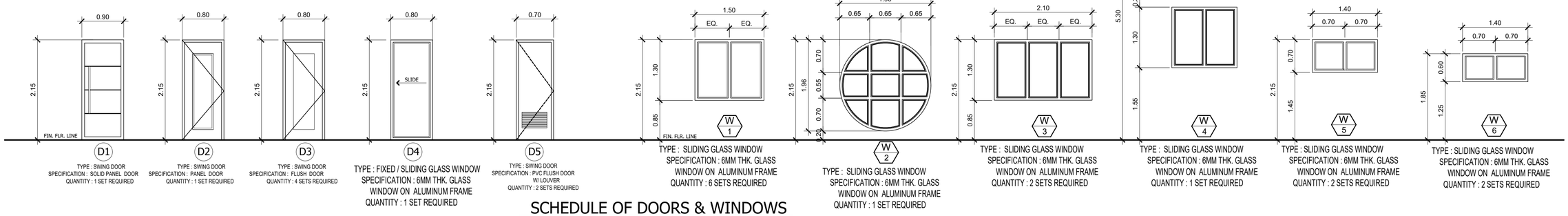
R-SIDE ELEVATION
SCALE : 1:100 M.



REAR ELEVATION
SCALE : 1:100 M.

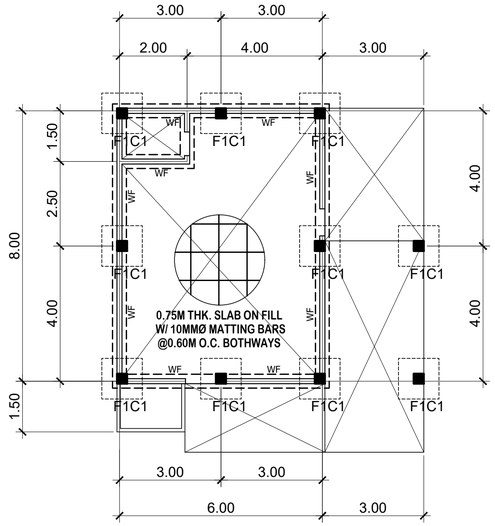


L-SIDE ELEVATION
SCALE : 1:100 M.



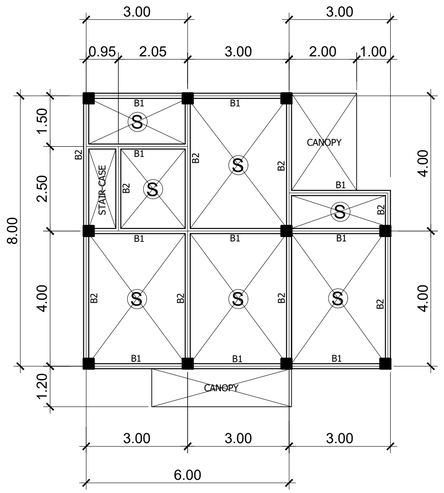
SCHEDULE OF DOORS & WINDOWS
SCALE : 1 : 50 MTS.

FROM THE OFFICE OF:	SEAL	FROM THE OFFICE OF:	REG NO. :	PROJECT TITLE:	APPROVED AS TO PLAN:	SHEET CONTENTS	SHEET NO:
			DATE ISSUED :				
			PTR NO. :	PROPOSED 2-STOREY RESIDENCE	JOHN ERIC S. BUAL AND LEAH B. BUAL	AS SHOWN...	A 2 7
		CIVIL ENGINEER / ARCHITECT	DATE ISSUED :		OWNER		
			TIN NO.				
ADDRESS:		ADDRESS:	DATE ISSUED :	ADDRESS:	ADDRESS:		DRAFTED BY: LOCAL DRAFTSMAN



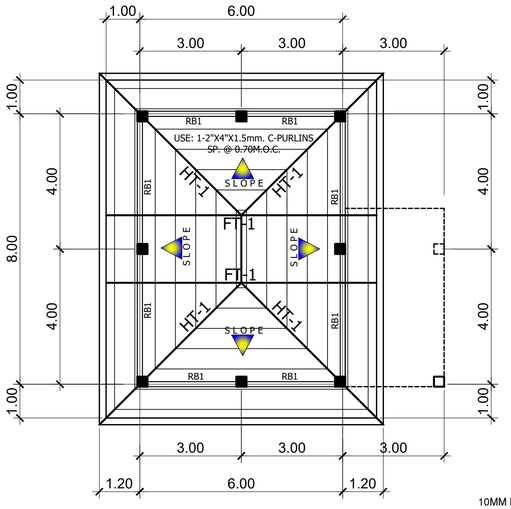
FOUNDATION PLAN

SCALE 1:100 METERS



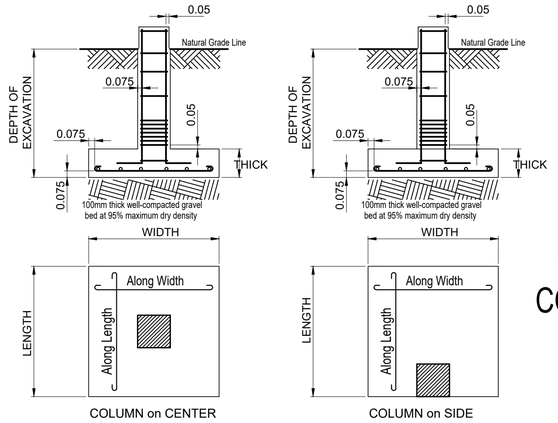
SECOND FLOOR FRAMING PLAN

SCALE 1:100 METERS



ROOF FRAMING PLAN

SCALE 1:100 METERS



REPUBLIC OF THE PHILLIPINES
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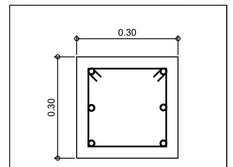
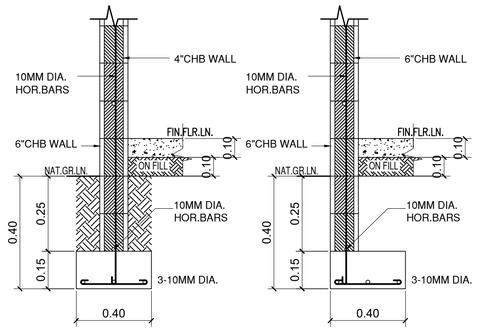
COLUMN SCHEDULE



VERTICAL REBARS	6-16mmØ
REBAR TIES	1 SET - 10mmØ
STIRRUPS SPACING	7 @ .10 REST @ .20M O.C.

C1

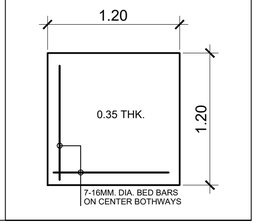
TYPICAL FOOTING



WALL FOOTING DETAIL

SCALE: 1:25 MTS.

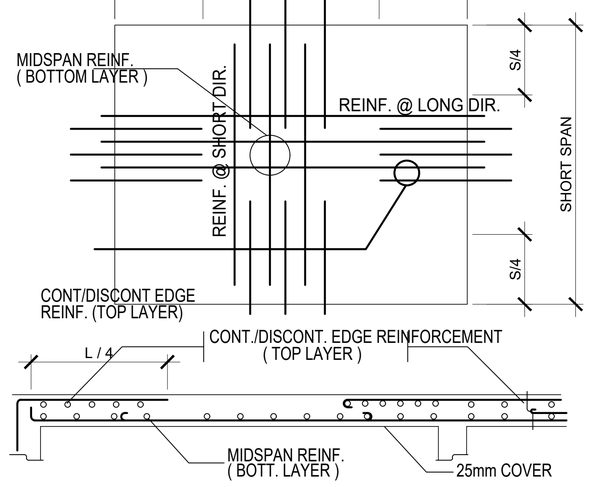
SCHEDULE OF FOOTING

MARK	SIZE OF FOOTING
F1	

SCHEDULE OF BEAM REINFORCEMENT

BEAM MARK	DIMENSION WxD (M)	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		STIRRUPS
		TOP BARS	BOT. BARS	TOP BARS	BOT. BARS	TOP BARS	BOT. BARS	
FLOOR/ROOF BEAMS								
RB1	0.20 X 0.30	3-16mmØ	2-16mmØ	2-16mmØ	3-16mmØ	3-16mmØ	2-16mmØ	A
RB2	0.20 X 0.30	2-16mmØ	2-16mmØ	2-16mmØ	2-16mmØ	2-16mmØ	2-16mmØ	A

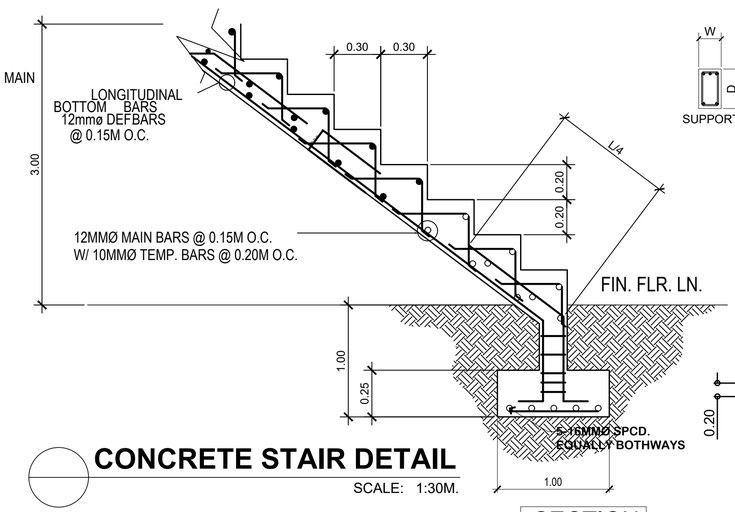
A - 10mmØ STIRRUPS: 5 @ .05, 5 @ 0.10, 3 @ 0.15 REST @ 0.20
B - 10mmØ STIRRUPS: 7 @ .05, 5 @ 0.10, 3 @ 0.15 REST @ 0.20



USE 10MM BARS SPACED @ 140MM O.C. B.W. ALT. BENT @ L/4
WITH A THICKNESS OF 110MM

SLAB DETAIL

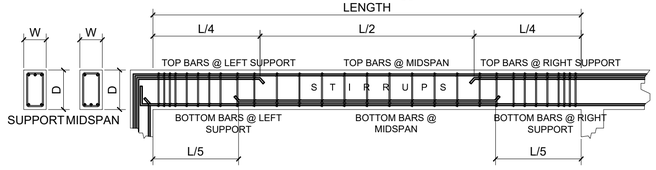
SCALE : 1 : 30 MTS



CONCRETE STAIR DETAIL

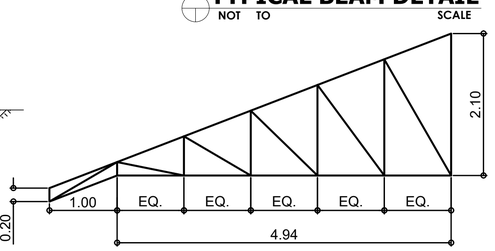
SCALE: 1:30M.

SECTION



TYPICAL BEAM DETAIL

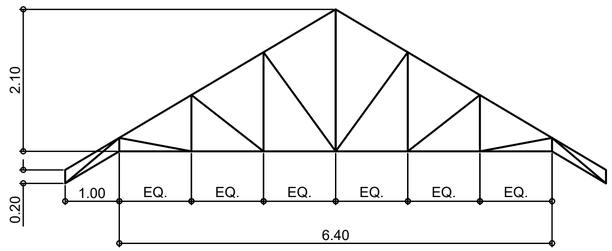
NOT TO SCALE



KING POST,BOT. CHORD, TOP CHORD = 1L 3/16"x2"x2" ANGLE BAR
REST MEMBERS = 1L 3/16"x 1.50"x 1.50" ANGLE BAR

HALF TRUSS-1 DETAIL

SCALE: 1:50 MTS.



KING POST,BOT. CHORD, TOP CHORD = 2L 3/16"x2"x2" ANGLE BAR
REST MEMBERS = 2L 3/16"x 1.50"x 1.50" ANGLE BAR

FULL TRUSS-1 DETAIL

SCALE: 1:50 MTS.

FROM THE OFFICE OF:	SEAL	FROM THE OFFICE OF:	REG NO. :	PROJECT TITLE:	APPROVED AS TO PLAN:	SHEET CONTENTS	SHEET NO:
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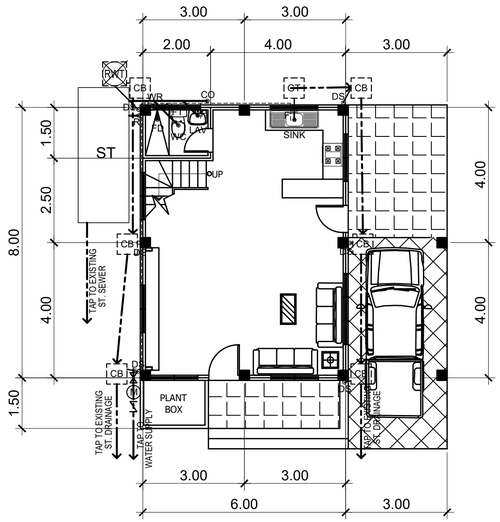
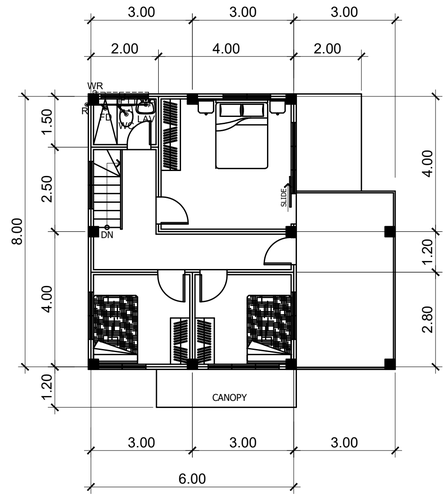
			PTR NO. :	PROPOSED 2-STOREY RESIDENCE	JOHN ERIC S. BUAL AND LEAH B. BUAL	AS SHOWN...	S 1 7
		CIVIL ENGINEER	DATE ISSUED :		OWNER		
ADDRESS:		ADDRESS:	TIN NO.	ADDRESS:	ADDRESS:		DRAFTED BY: LOCAL DRAFTSMAN
			DATE ISSUED :				



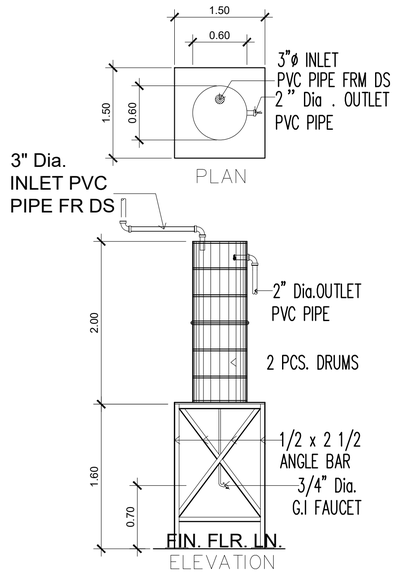
GROUND FLOOR PLUMBING PLAN

SCALE 1:100 METERS



SECOND FLOOR PLUMBING PLAN

SCALE 1:100 METERS



ELEVATION

RAIN WATER TANK DETAIL

SCALE: NTS

RAIN WATER TANK VOLUME CALCULATION

VOLUME OF RWT = BUILDING FOOTPRINT / 75

= 120.20 SQM / 75

= 1.60 X 50%

VOLUME OF RWT = 0.80 CU.M

REPUBLIC OF THE PHILLIPINES
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BUILDING OFFICIAL: DATE:

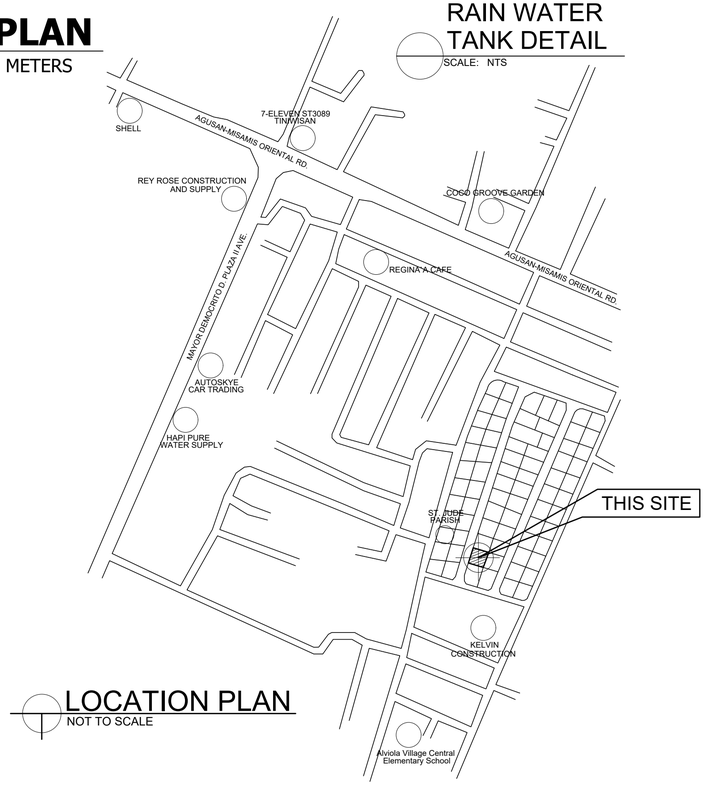
GENERAL NOTES:

- ALL PLUMBING INSTALLATIONS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE PLUMBING CODE AND IN CONFORMITY WITH THE LOCAL PLUMBING ORDINANCE.
- ALL HORIZONTAL PIPING INSTALLATIONS SHALL BE RUN IN PRACTICAL ALIGNMENT AND SHALL BE PROVIDED WITH A SLOPE OF NOT LESS THAN 2%.
- ALL PLUMBING PIPES PASSING THRU OR UNDER CONCRETE SHALL BE FULLY PROTECTED AGAINST BREAKAGE.
- VERIFY ACTUAL LOCATION AND ELEVATION OF STREET DRAINAGE AND WATER SOURCE FOR CONNECTION BEFORE CONSTRUCTION.
- ALL PLUMBING INSTALLLATION SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED PLUMBING ENGINEER OR MASTER PLUMBER.
- POLYVINYL CHLORIDE (PVC) PIPES FOR WASTE, DRAIN AND VENT SHALL BE MOLDEX BRAND, NO REPLACEMENT OF MATERIALS SHALL BE MADE WITHOUT THE CONSENT OF THE DESIGNER.

CERTIFICATION

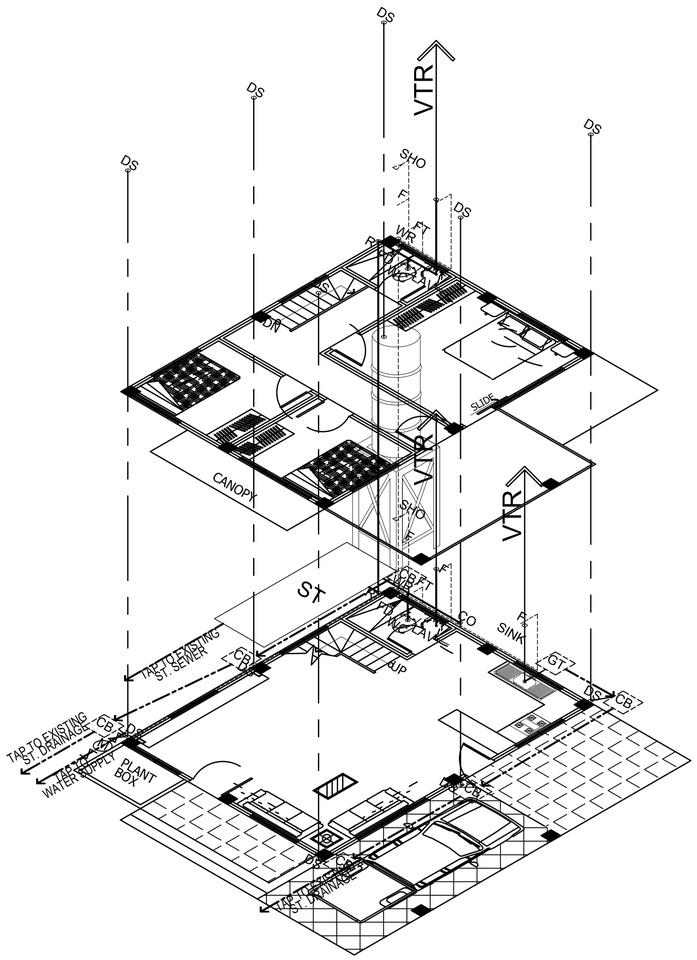
THIS TO CERTIFY THAT THERE IS NO EXISTING ARTESIAN WELL WITHIN THE RADIUS OF 25.00 METERS AWAY FROM THE PROPOSED SEPTIC TANK.

REGISTERED MASTER PLUMBER



LOCATION PLAN

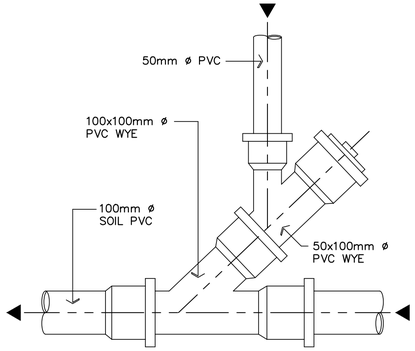
NOT TO SCALE



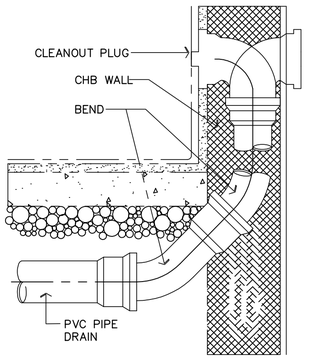
ISOMETRIC PLUMBING LAYOUT

NOT TO SCALE

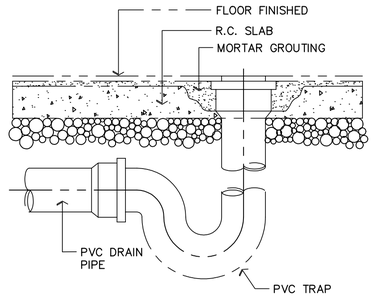
FROM THE OFFICE OF:	SEAL	FROM THE OFFICE OF:	REG NO. :	PROJECT TITLE:	APPROVED AS TO PLAN:	SHEET CONTENTS	SHEET NO:
			DATE ISSUED :				
			PTR NO. :	PROPOSED 2-STOREY RESIDENCE	JOHN ERIC S. BUAL AND LEAH B. BUAL	AS SHOWN...	P 1 7
		REGISTERED MASTER PLUMBER	DATE ISSUED :		OWNER		
			TIN NO.				
ADDRESS:		ADDRESS:	DATE ISSUED :	ADDRESS:	ADDRESS:		DRAFTED BY: LOCAL DRAFTSMAN



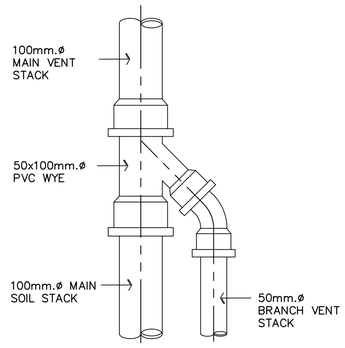
PLAN
(CHANGE OF DIRECTION HORIZONTAL)



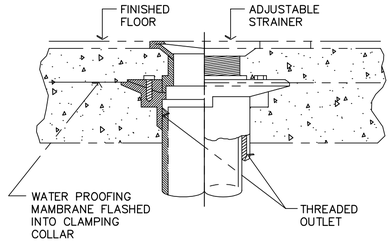
WALL CLEAN OUT DETAIL



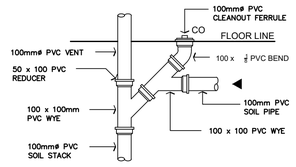
FLOOR DRAIN DETAIL



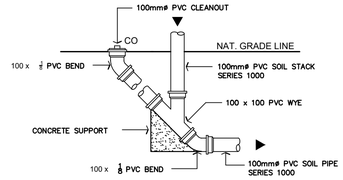
MAIN VENT STACK



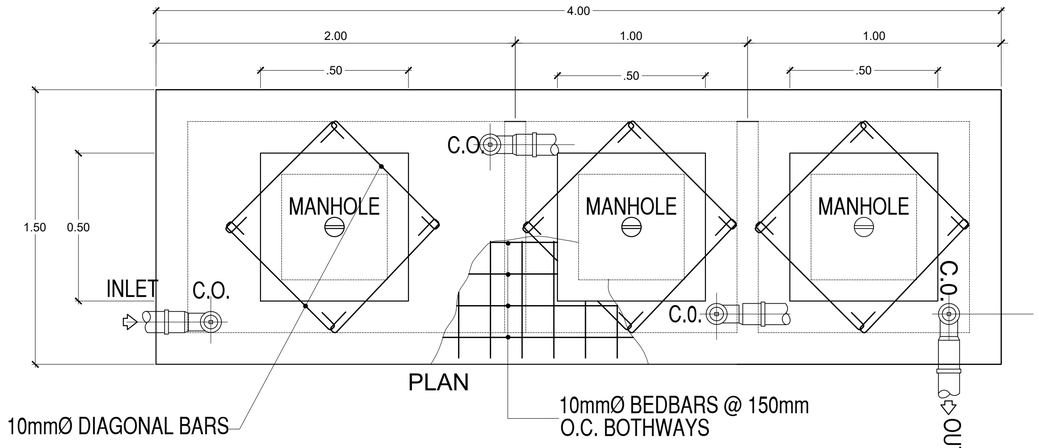
MOUNTING OF WATER CLOSET



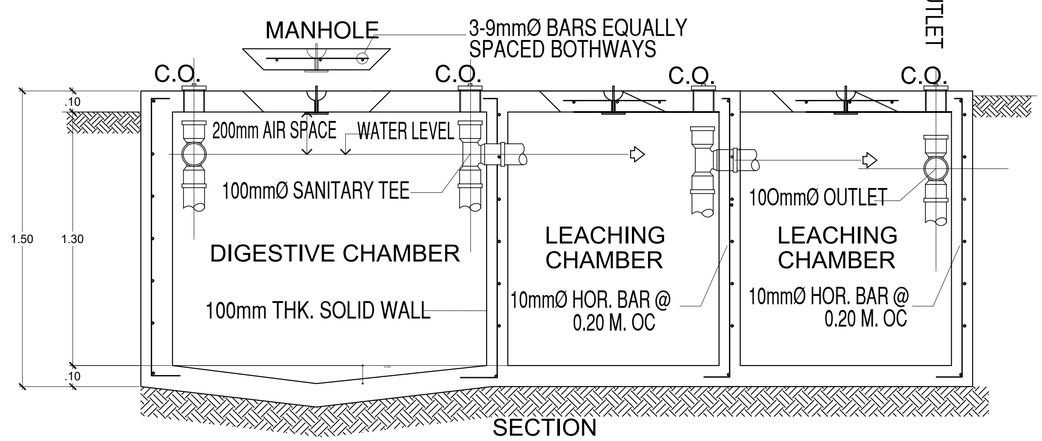
FOR HOUSE DRAIN TO SOIL STACK
(HORIZONTAL TO VERTICAL JOINT)



FOR SOIL STACK TO HOUSE DRAIN
(VERTICAL TO HORIZONTAL JOINT)

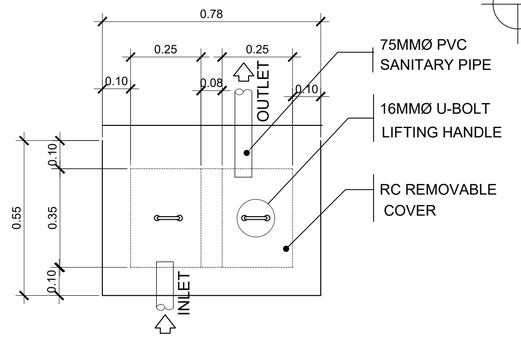


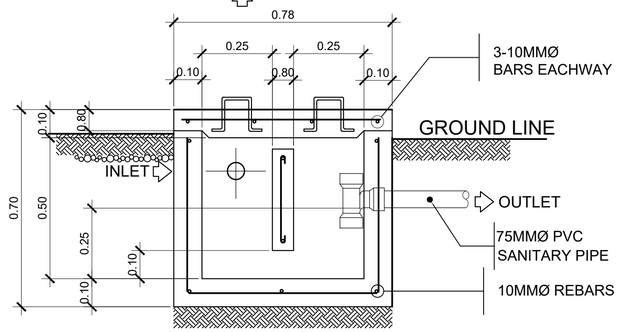
PLAN



SECTION

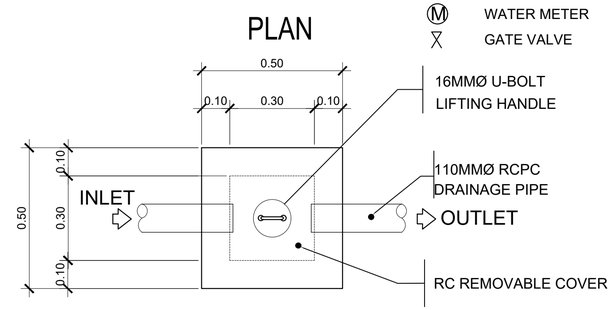
SEPTIC TANK DETAIL
NTS

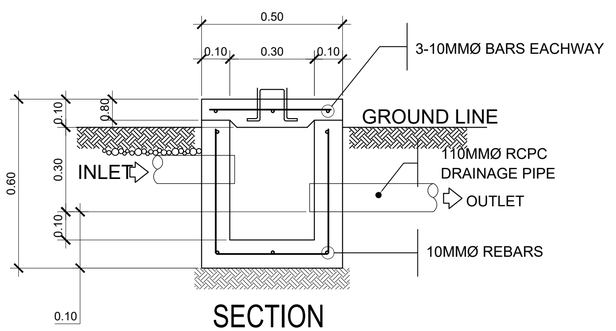




SECTION

GREASE TRAP DETAIL
SCALE : 1 : 15 MTS.





SECTION

CATH BASIN DETAIL
SCALE : 1 : 15 MTS.

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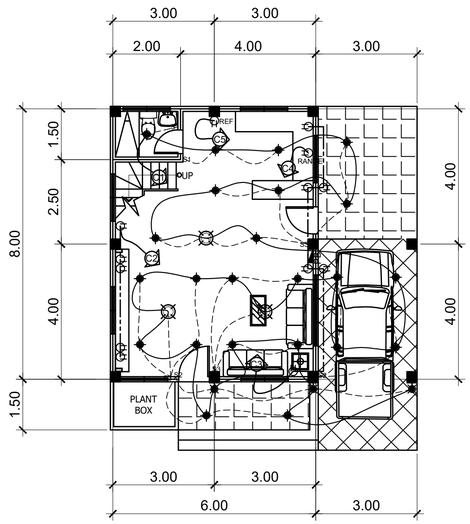
BUILDING OFFICIAL: DATE:

LEGEND:

RWT	RAIN WATER TANK
WC	WATER CLOSET
FD	FLOOR DRAIN
LAV	LAVATORY
VTR	VENT THRU ROOF
CO	CLEAN OUT
DS	DOWN SPOUT
CB	CATCH BASIN
F	FAUCET
KS	KITCHEN SINK
FT	FLUSH TANK
ST	SEPTIC TANK
WT	WATER TANK
GT	GREASE TRAP

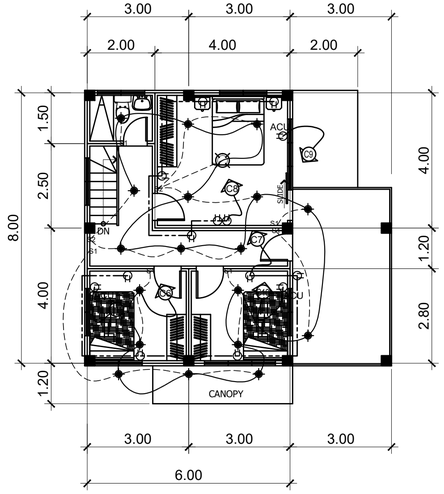
WATER PIPE LN.
SOIL PIPE LN.
WASTE WATER PIPE LN.
(SM) WATER SUBMETER
STOP COCK
(M) WATER METER
GATE VALVE

FROM THE OFFICE OF:	**SEAL**	FROM THE OFFICE OF:	REG NO. :	PROJECT TITLE:	APPROVED AS TO PLAN:	SHEET CONTENTS	SHEET NO:
			DATE ISSUED:	PROPOSED 2-STOREY RESIDENCE	JOHN ERIC S. BUAL AND LEAH B. BUAL	**AS SHOWN...**	**P** 2 7
		REGISTERED MASTER PLUMBER	PTR NO. :		OWNER		
			DATE ISSUED:				
ADDRESS:		ADDRESS:	TIN NO.	ADDRESS:	ADDRESS:		DRAFTED BY: LOCAL DRAFTSMAN
			DATE ISSUED :				



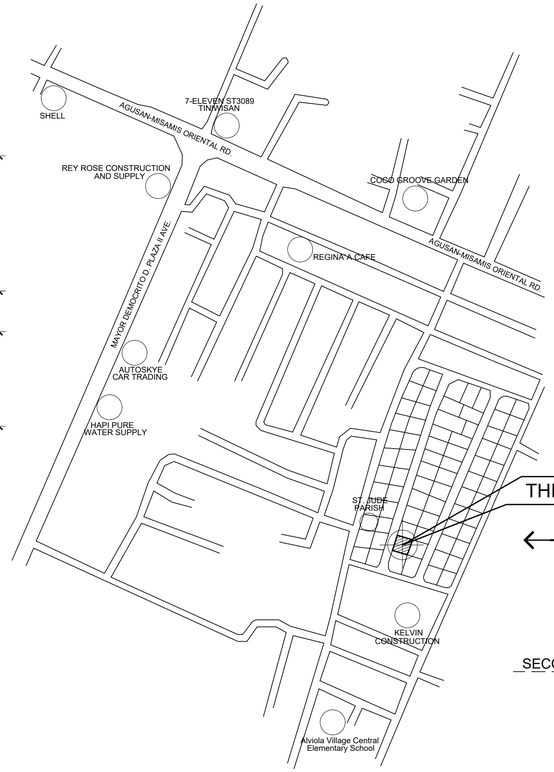
GROUND FLOOR ELECTRICAL PLAN

SCALE 1:100 METERS



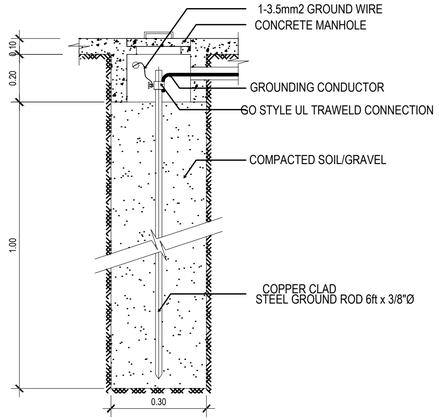
SECOND FLOOR ELECTRICAL PLAN

SCALE 1:100 METERS

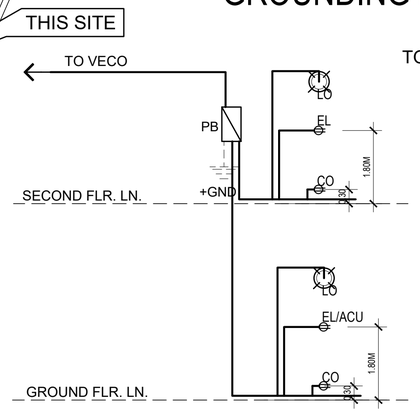


LOCATION PLAN

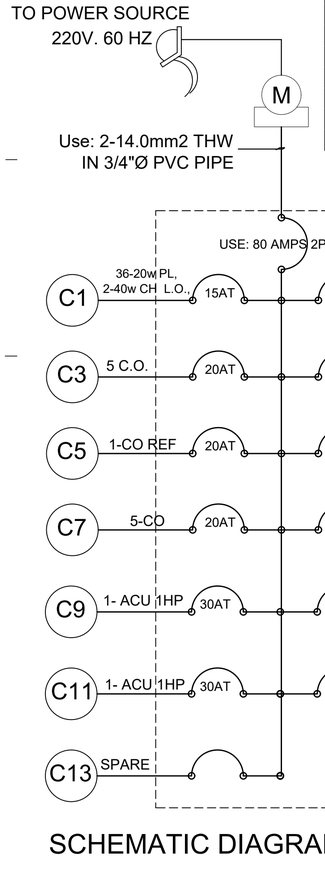
NOT TO SCALE



GROUNDING DETAIL



RISER DIAGRAM



SCHEMATIC DIAGRAM

LEGEND:

	40w CL (CENTER LIGHT) LIGHT OUTLET
	20w PL (PIN LIGHT) LIGHT OUTLET
	20w WL (WALL LAMP) LIGHT OUTLET
REF	REFRIGERATOR
EL	EMERGENCY LIGHT OUTLET
ACU	AIRCONDITIONING UNIT OUTLET
GFCI	GROUND FAULT CIRCUIT INTERRUPTER CONVENIENCE OUTLET
	CONVENIENCE OUTLET
PB	PANEL BOARD
M	KILOWATT HOUR METER
	LIGHTING LINE
	POWER LINE
	CIRCUIT HOMERUN
	CIRCUIT BREAKER
S1	SINGLE GANG SWITCH
S2	DOUBLE GANG SWITCH
S3	THREE GANG SWITCH

REPUBLIC OF THE PHILLIPINES
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OFFICE OF THE BUILDING OFFICIAL

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ISSUED BY:

BUILDING OFFICIAL: DATE:

SCHEDULE OF LOADS AND COMPUTATIONS

APB

CKT. NO.	LOAD	V/A	SWITCH			CURRENT			VOLT	PHASE	CB RATING	CONDUCTOR	CONDUIT SIZE	KAIC RATING (KA)
			S1	S2	S3			AMP						
C1	23-PL (20W),3-CH(40W), 3-WL(20W) L.O	800	2	2	3			3.63	220V	1ϕ	15AT2P	2 -3.5 MM² THHN	1/2"Ø PVC	10
C2	6-CO	1200						5.45	220V	1ϕ	20AT2P	2 - 5.5 MM² THHN +1-3.5 MM² GND	1/2"Ø PVC	10
C3	5-CO	1000						4.54			20AT2P	2 - 5.5 MM² THHN +1-3.5 MM² GND	1/2"Ø PVC	10
C4	1-CO RANGE	375						1.70			20AT2P	2 - 5.5 MM² THHN +1-3.5 MM² GND	1/2"Ø PVC	10
C5	1-CO REF	375						1.70			20AT2P	2 - 5.5 MM² THHN +1-3.5 MM² GND	1/2"Ø PVC	10
C6	18-PL (20W),1-CH(40W) L.O	500	6	2				2.27			15AT2P	2 -3.5 MM² THHN	1/2"Ø PVC	10
C7	5-CO	1000						4.54			20AT2P	2 - 5.5 MM² THHN +1-3.5 MM² GND	1/2"Ø PVC	10
C8	6-CO	1200						5.45			20AT2P	2 - 5.5 MM² THHN +1-3.5 MM² GND	1/2"Ø PVC	10
C9	1- ACU 1HP	1750						7.95			30AT2P	2 - 5.5 MM² THHN +1-3.5 MM² GND	1/2"Ø PVC	10
C10	1- ACU 1HP	1750						7.95			30AT2P	2 - 5.5 MM² THHN +1-3.5 MM² GND	1/2"Ø PVC	10
C11	1- ACU 1HP	1750						7.95			30AT2P	2 - 5.5 MM² THHN +1-3.5 MM² GND	1/2"Ø PVC	10
C12	SPARE										30AT2P		1/2"Ø PVC	10
C13	SPARE										30AT2P		1/2"Ø PVC	10
TOTAL		11,700	8	4	3			53.13	220V	1ϕ	80AT2P	2- 14.0 MM² THW +1-8.0 MM² GND	1.0"Ø RSC	20

MAIN WIRE DESIGN:

Iw=[It+(IhX0.25)]DF
=[53.13+(7.95 X 0.25)]0.80
=(53.13+1.98)0.80
=55.11 X 0.80
Iw= 44.088 AMPS.

USE = 2- 14.0 MM² THW +1-8.0 MM² GND

MAIN SWITCH DESIGN:

Is=[It+(IhX2.0)]DF
=[53.13 + (7.95X 2.0)]0.80
=(53.13+15.90)0.80
=69.03 X 0.80
Is=55.224 AMPS.

USE:80 AT 2P MAIN BREAKER

GENERAL ELECTRICAL NOTES:

ALL ELECTRICAL INSTALLATION ON THE PLAN SHALL CONFIRMED ALL THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE RULES AND REGULATIONS OF THE LOCAL COMPANY

ALL PROTECTIVE DEVICES ENCLOSURE MUST BE FIRE PROOF.

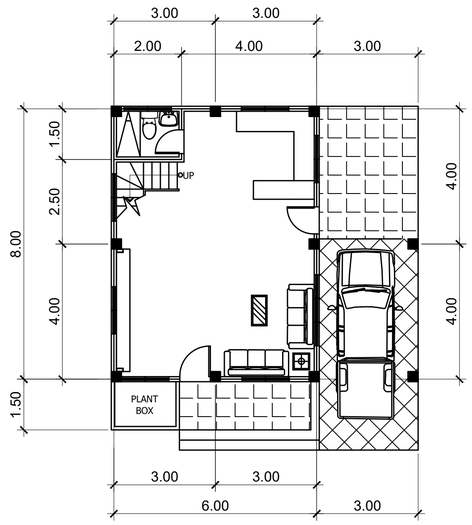
THE SMALLEST BRANCH CIRCUIT SHALL BE 3.5mm TW (12 AWG).

KILOWATT HOUR METER 1.52 ABOVE GROUND ON THE NEAREST FUD POST.

SWITCH 1.35 M. ABOVE FIRST FLOOR EXCEPT ON THE KITCHEN COUNTER IS 1.10M. ABOVE FINISH FLOOR LINE.

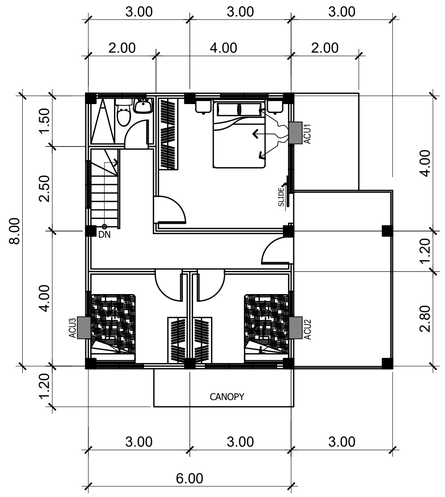
ALL ELECTRICAL INSTALLATION SHALL BE DONE UNDER DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER OR A REGISTERED MASTER ELECTRICIAN.

FROM THE OFFICE OF:	SEAL	FROM THE OFFICE OF:	REG NO. :	PROJECT TITLE:	APPROVED AS TO PLAN:	SHEET CONTENTS	SHEET NO:
			DATE ISSUED :	PROPOSED 2-STOREY RESIDENCE	JOHN ERIC S. BUAL AND LEAH B. BUAL	AS SHOWN...	E 1 7
ADDRESS:		PROFESSIONAL ELECTRICAL ENGINEER	PTR NO. :		OWNER		
		ADDRESS:	DATE ISSUED :	ADDRESS:	ADDRESS:		DRAFTED BY: LOCAL DRAFTSMAN
			TIN NO.				
			DATE ISSUED :				



GROUND FLOOR MECHANICAL PLAN

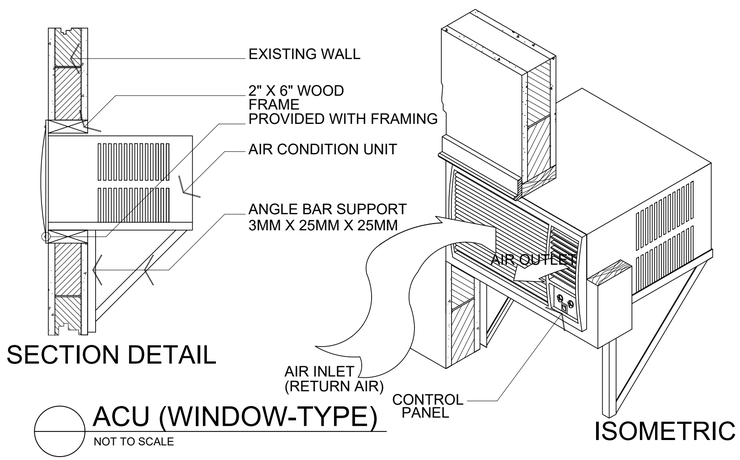
SCALE 1:100 METERS



SECOND FLOOR MECHANICAL PLAN

SCALE 1:100 METERS

SCHEDULE OF EQUIPMENTS				
MARK	HP	VOLTS	PHASE	DESCRIPTIONS
ACU1	1 HP	220	1Ø	AIRCONDITIONING UNIT (WINDOW-TYPE)
ACU2	1 HP	220	1Ø	AIRCONDITIONING UNIT (WINDOW-TYPE)
ACU3	1 HP	220	1Ø	AIRCONDITIONING UNIT (WINDOW-TYPE)

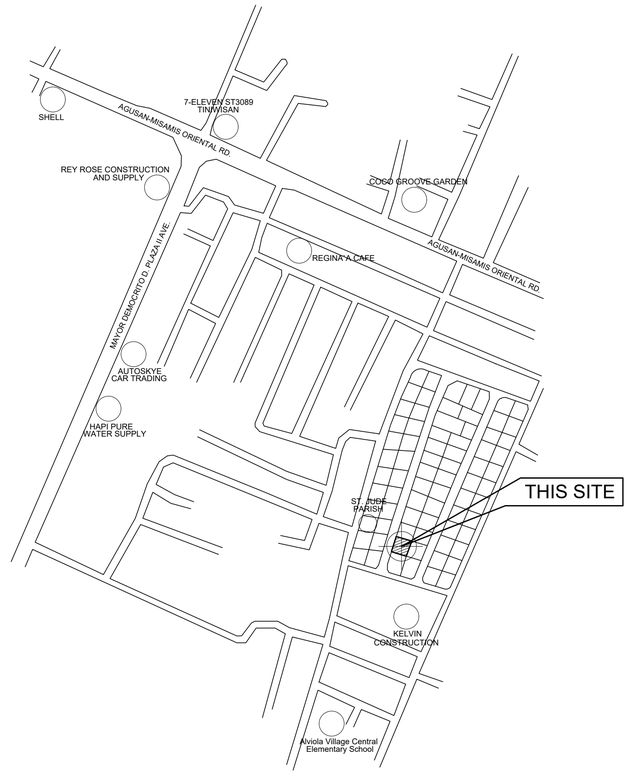


ACU (WINDOW-TYPE)

NOT TO SCALE

SPECIFICATIONS

1) THE WHOLE MECHANICAL INSTALLATION SHALL CONFORM TO THE RULES AND REGULATIONS OF R.A. 8495, OTHERWISE KNOWN AS THE MECHANICAL ENGINEERING ACT OF "1998" IN THE PHILIPPINES, THE BUILDING CODE, AND THE LATEST LOCAL SAFETY ORDINANCES.
2) THE WHOLE MECHANICAL INSTALLATION SHALL BE DONE UNDER THE DIRECT AND RESPONSIBLE SUPERVISION OF A DULLY LICENSED PROFESSIONAL MECHANICAL ENGINEER
3) ALL MATERIALS USED SHALL BE BRAND NEW AND APPROVED TYPE FOR LOCATION AND PURPOSE INTENDED .
4) ALL ACU'S (WINDOW - TYPE) SHALL BE PROVIDED WITH $\frac{1}{2}$ INCH DIAMETER PVC DRAIN PIPE .
5) ALL EQUIPMENTS SHALL BE MOUNTED ON OR SUPPORTED WITH VIBRATION INSULATION UNITS ON ASSEMBLIES AS SPECIFIED .
6) ALL EQUIPMENTS SHALL BE SET ON LEVEL , REINFORCED CONCRETE FOUNDATION AT LEAST 150.0 mm HIGHER THAN THE FLOOR LINE , IF APPLICABLE .



LOCATION PLAN

NOT TO SCALE

REPUBLIC OF THE PHILLIPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

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FROM THE OFFICE OF:	SEAL	FROM THE OFFICE OF:	REG NO. :	PROJECT TITLE:	APPROVED AS TO PLAN:	SHEET CONTENTS	SHEET NO:
			DATE ISSUED:	PROPOSED 2-STOREY RESIDENCE	JOHN ERIC S. BUAL AND LEAH B. BUAL	AS SHOWN...	M 1 7
		PROFESSIONAL MECHANICAL ENGINEER	PTR NO. :		OWNER		
			DATE ISSUED:				
ADDRESS:		ADDRESS:	TIN NO.	ADDRESS:	ADDRESS:		DRAFTED BY: LOCAL DRAFTSMAN
			DATE ISSUED :				