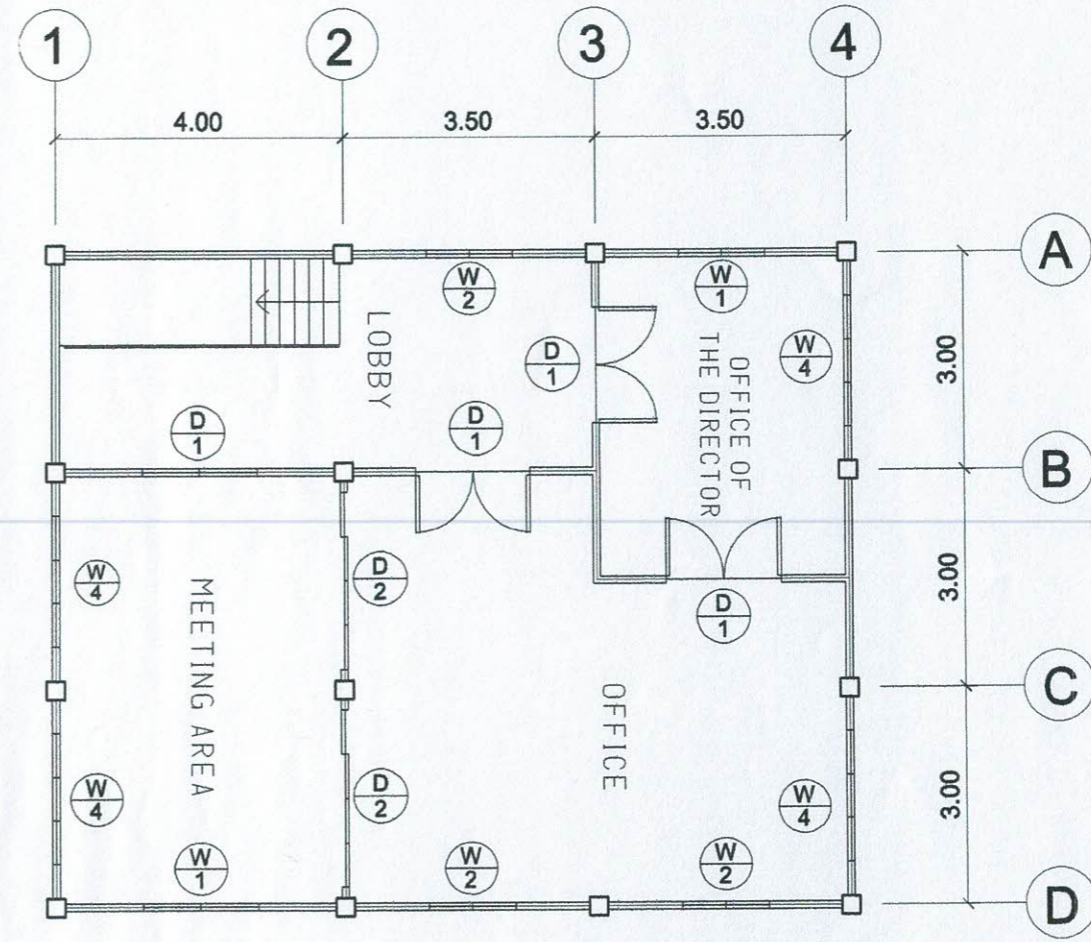
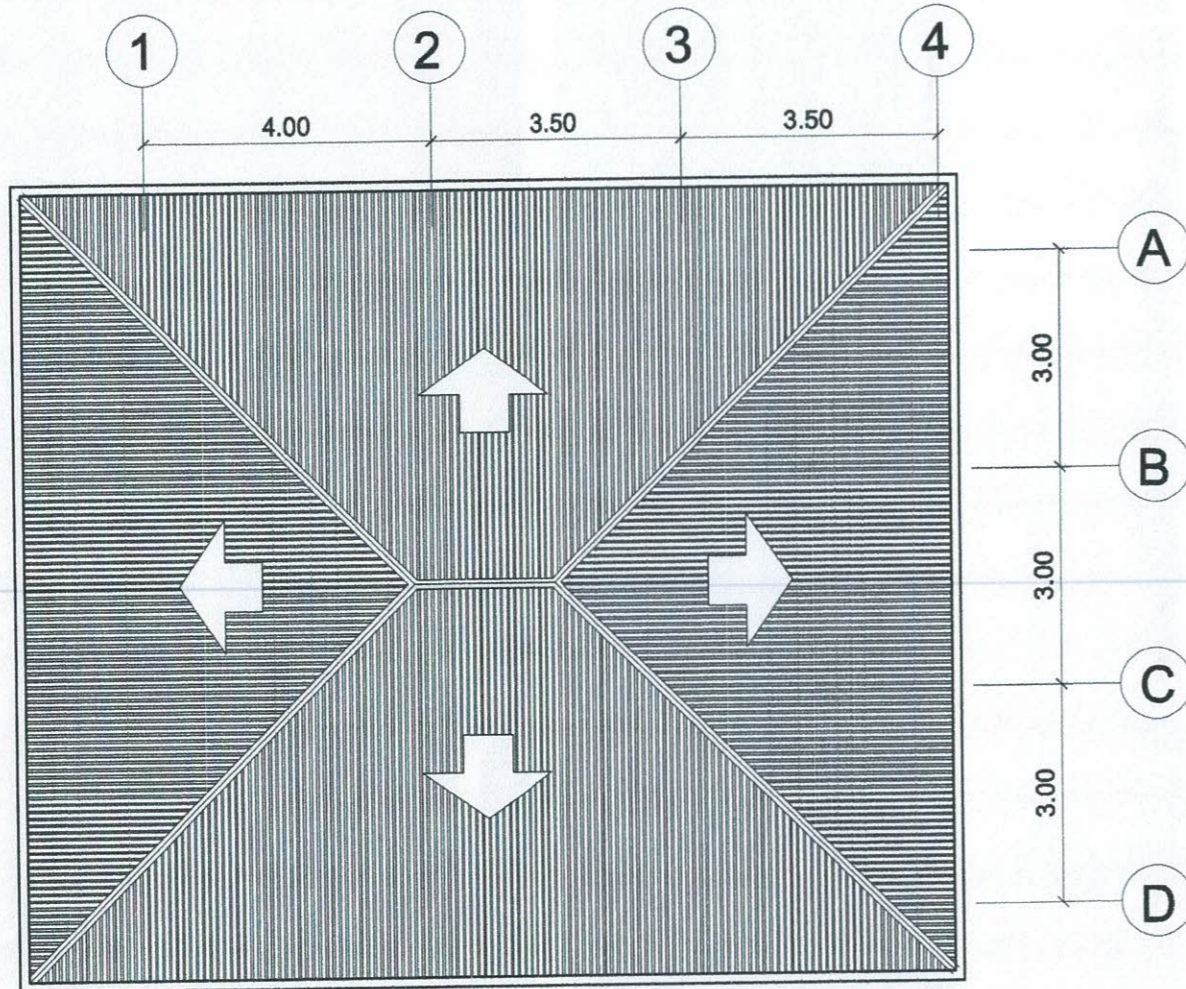


1
A 1 **GROUND FLOOR PLAN**
SCALE 1 : 100 MTS.

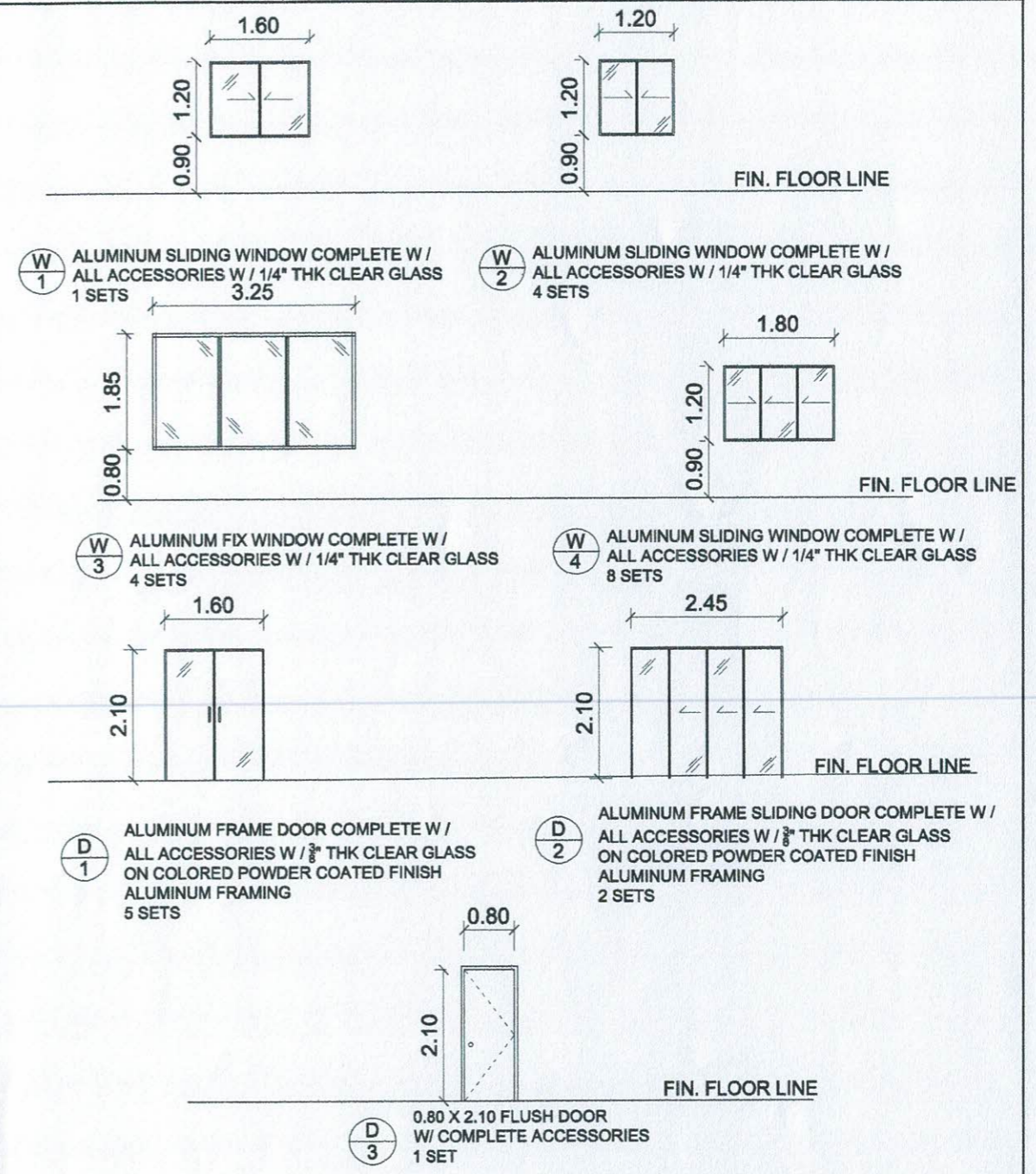


1
A 1 **SECOND FLOOR PLAN**
SCALE 1 : 100 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. PASCUAL PDU OVPPD	M. T. BONO DIRECTOR BRITE CENTER	E. N. RODEROS ARCHITECT	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE VPPD	M. J. D. TEPORA CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF TWO STOREY BRITE CENTER CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY

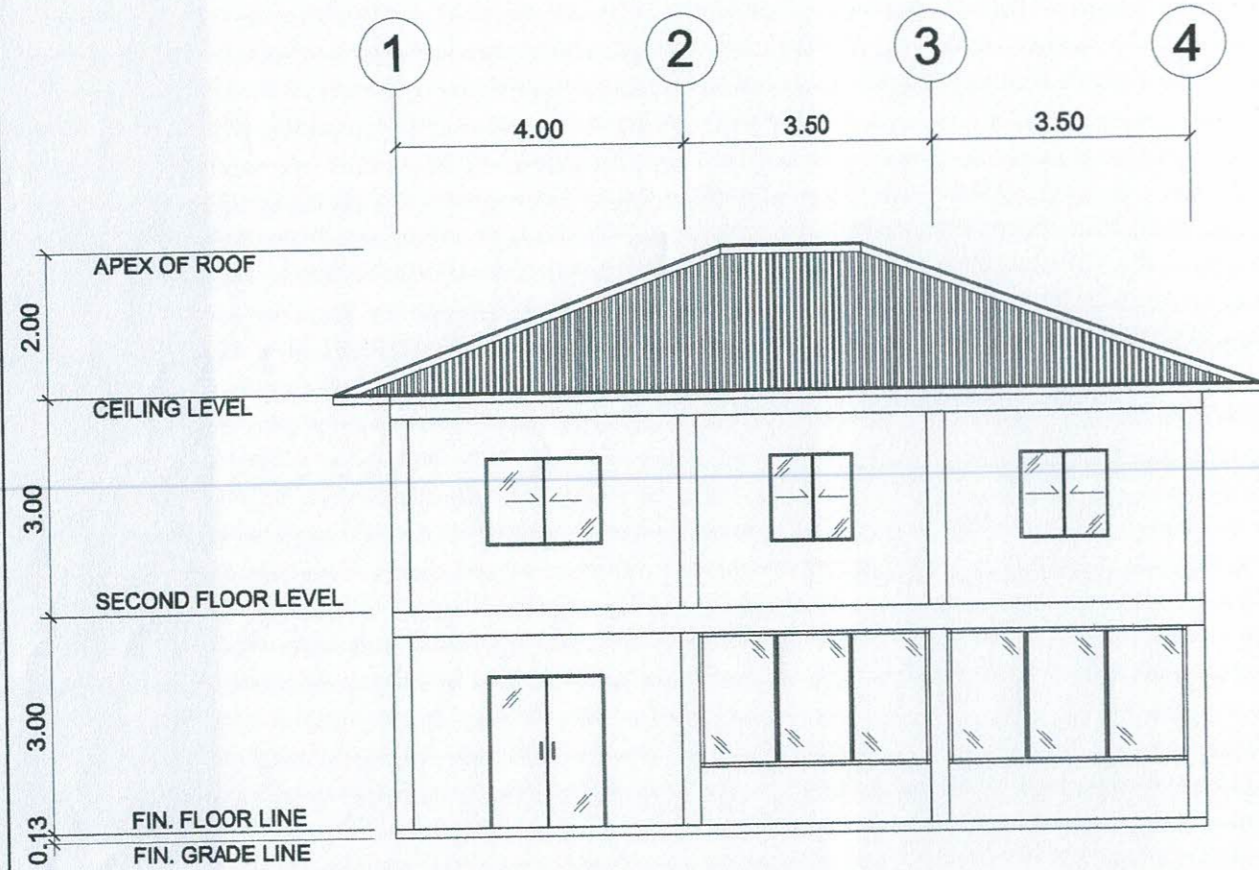


1
A 2 SCALE 1 : 100 MTS.

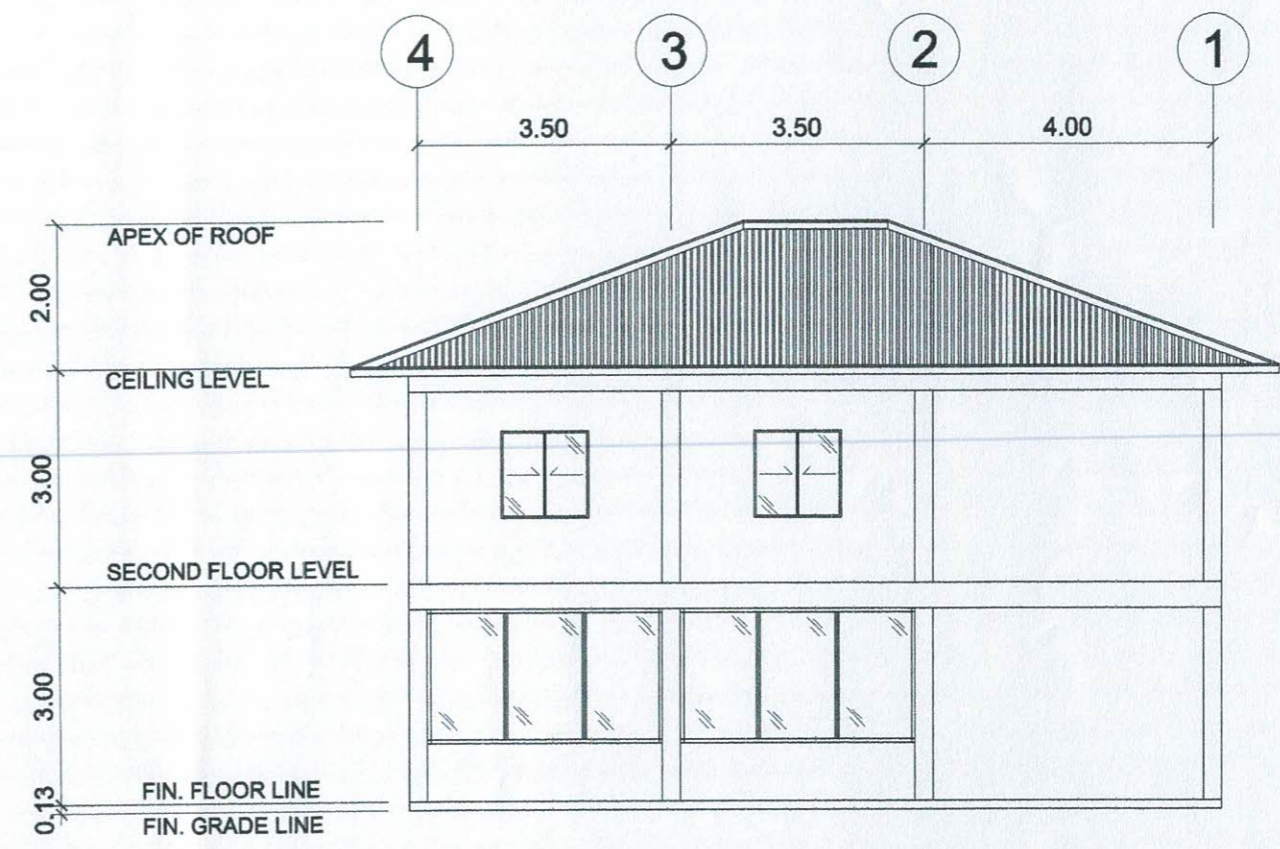


1
A 2 SCALE 1 : 100 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	 R. PASCUAL PDU OVPPD	 M.T. BONO DIRECTOR, BRITE CENTER	 E. N. RODEROS ARCHITECT	 S. B. BAYOT JR. HEAD PDU	 O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE VPPD	 M. J. D. TEPORA CVSU	 H. D. ROBLES PRES CVSU	CONSTRUCTION OF TWO STOREY BRITE CENTER CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY

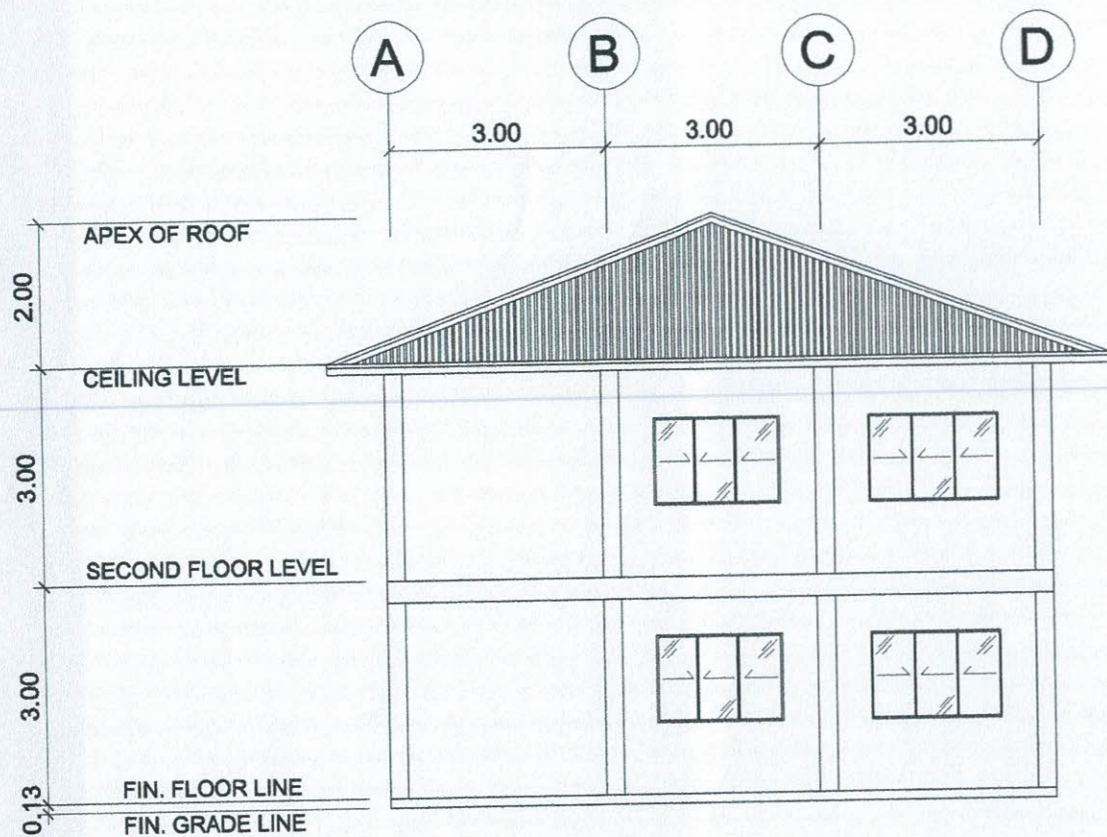


1
A 3 FRONT ELEVATION
SCALE 1 : 100 MTS.

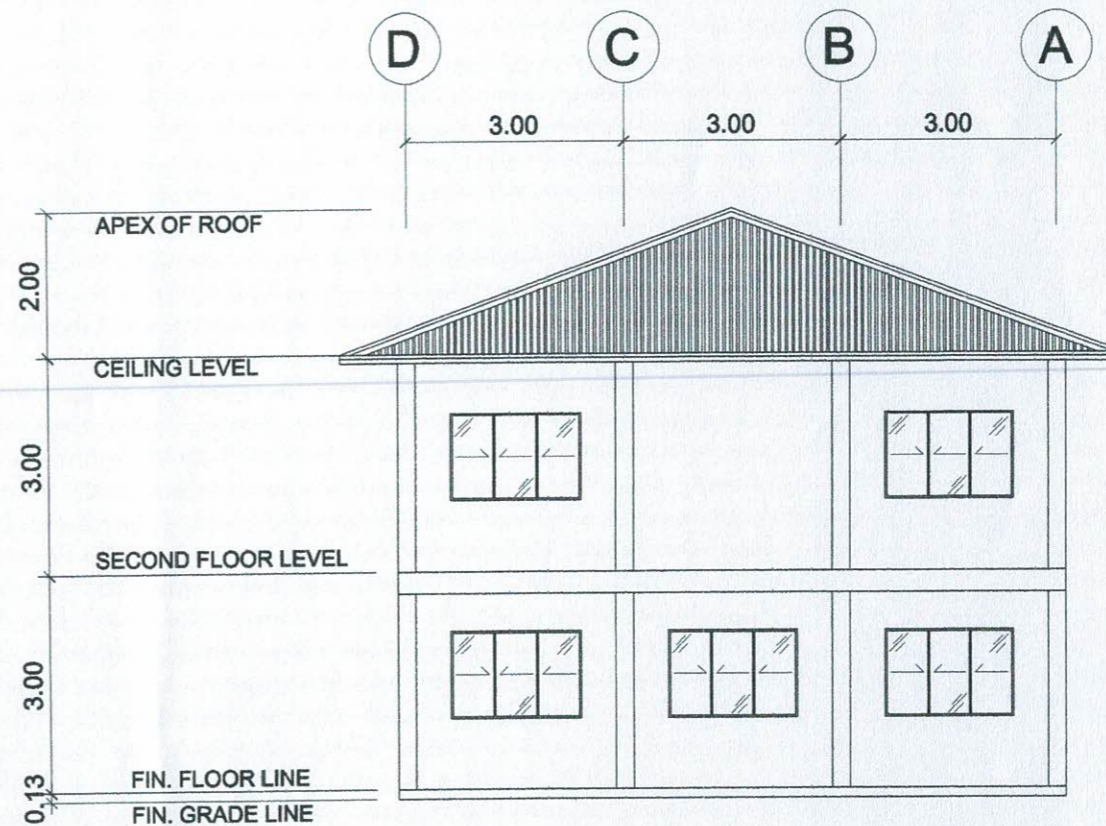


1
A 3 REAR ELEVATION
SCALE 1 : 100 MTS.


	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
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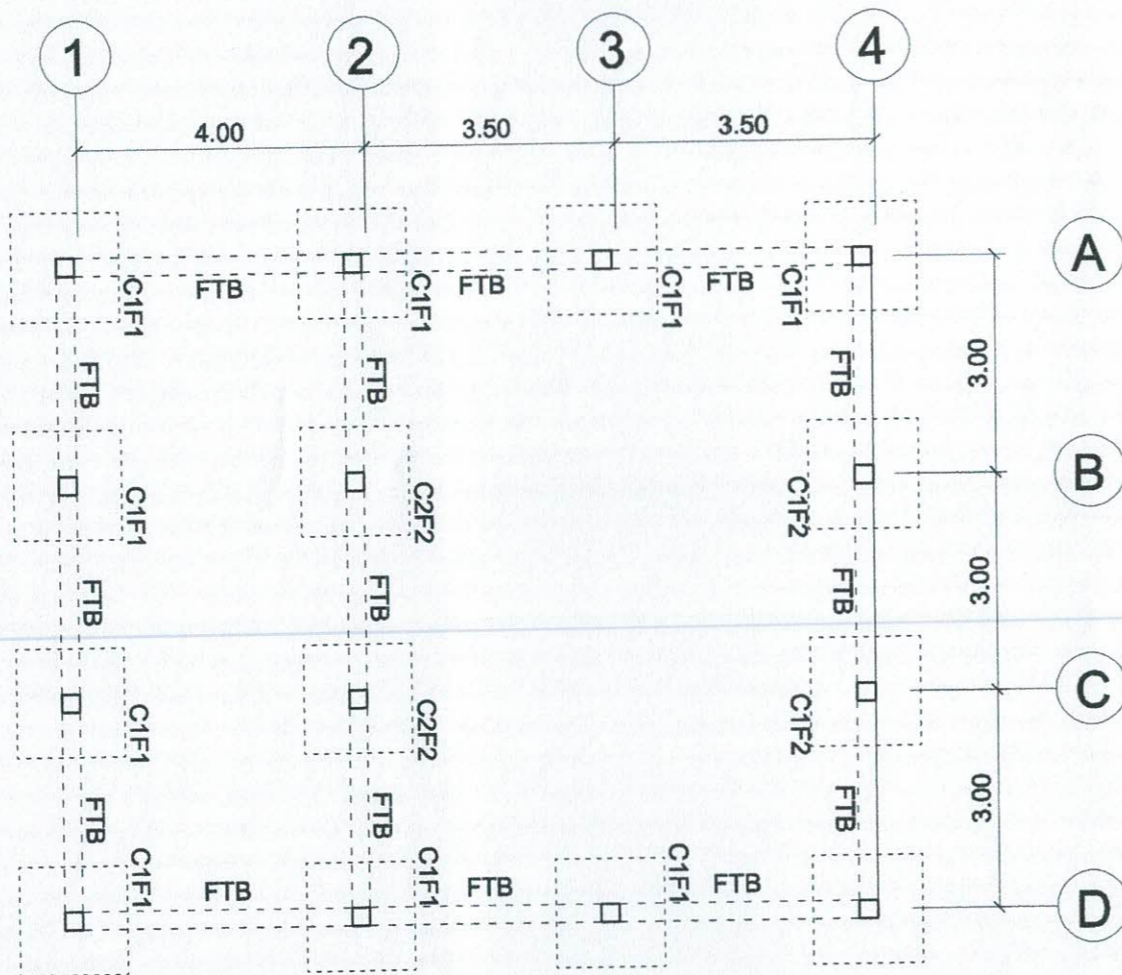


1 RIGHT SIDE ELEVATION
A4 SCALE 1 : 100 MTS.

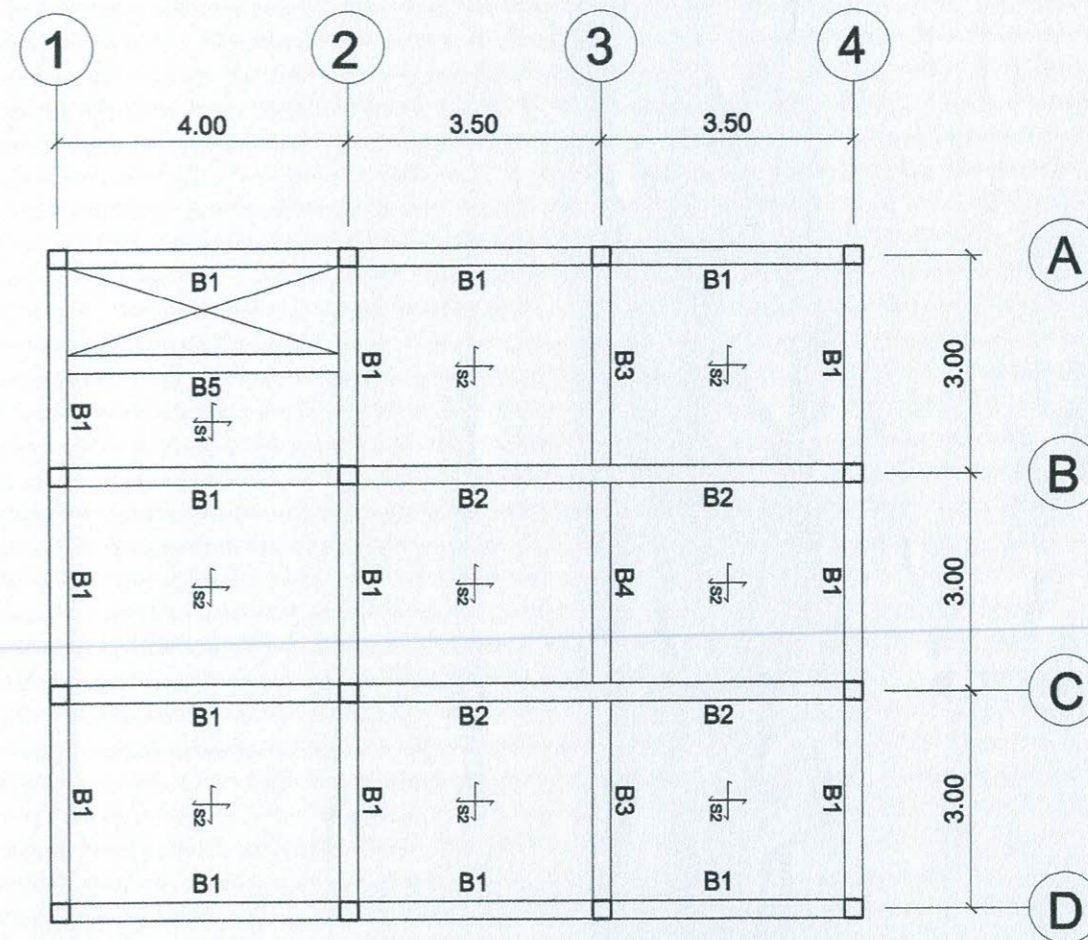


1 LEFT SIDE ELEVATION
A4 SCALE 1 : 100 MTS.


PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
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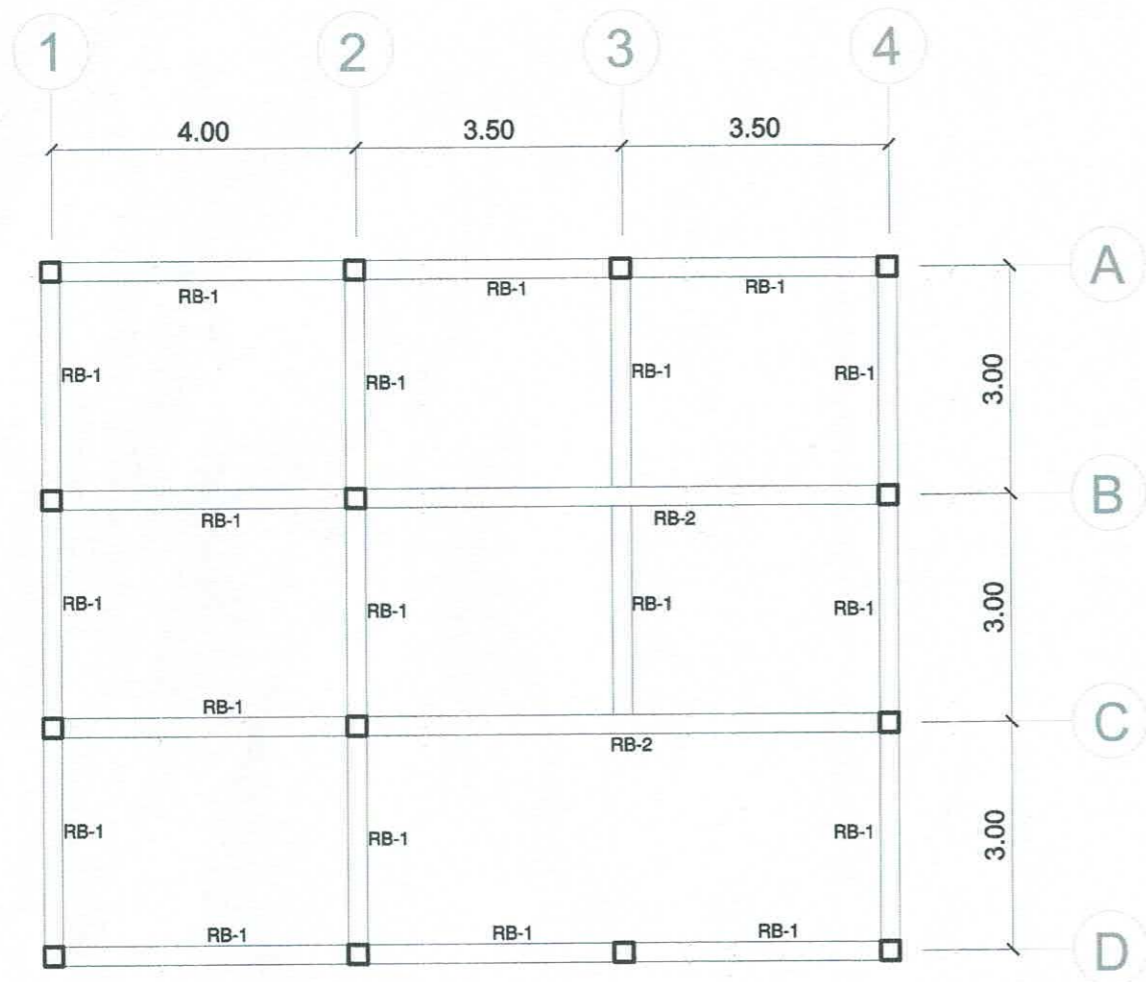


1
A 3 SCALE 1 : 200 MTS.

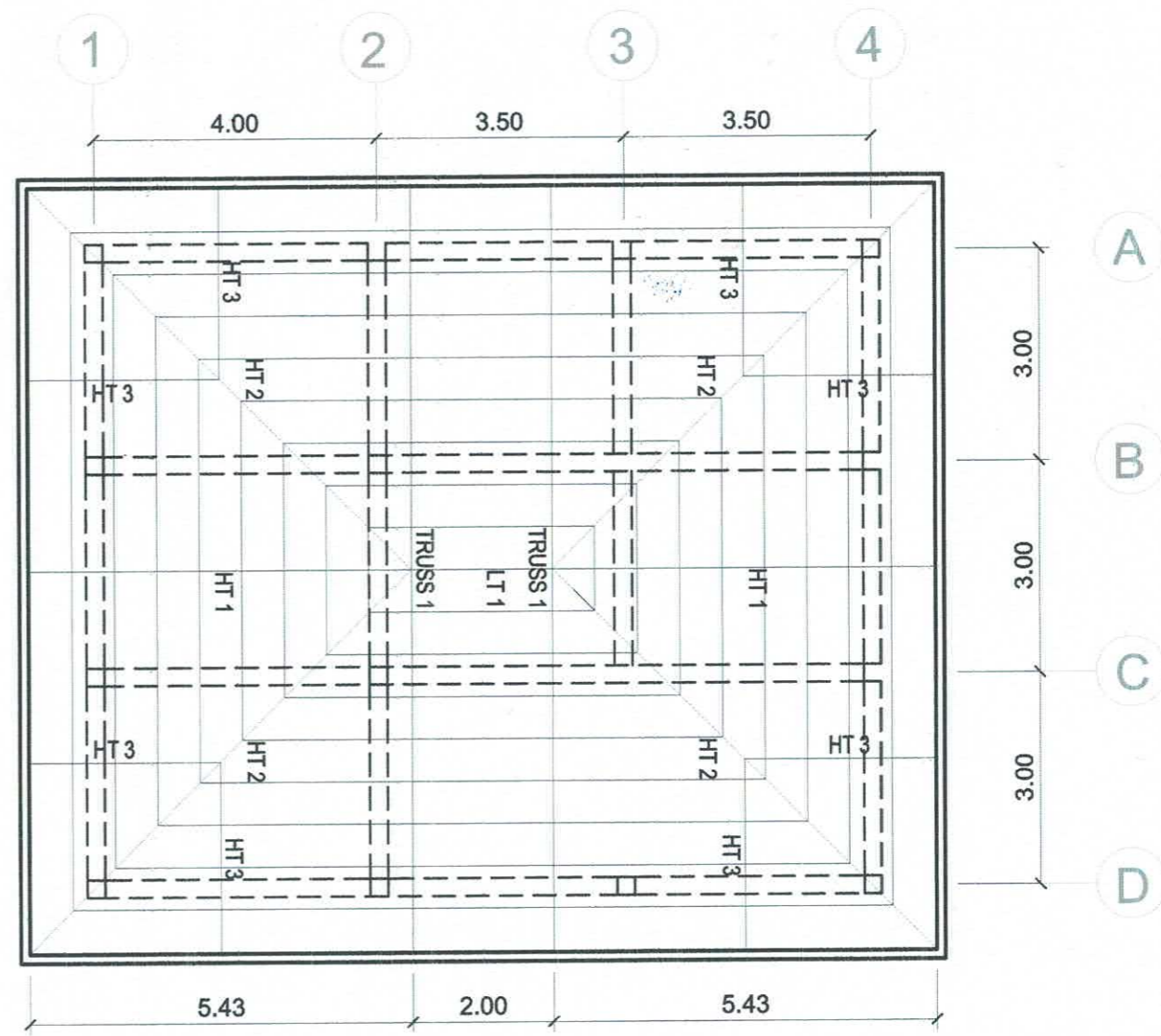


1
A 3 SCALE 1 : 200 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
 R. J. PASCUAL PDU OVPD	M. T. BONO DIRECTOR BRITE CENTER	L. E. ROCELA CIVIL ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	M. J. DI TEPORA VPPD CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF TWO STOREY BRITE CENTER CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY S - 1





1
S 2
ROOF BEAM PLAN
SCALE 1 : 200 MTS.

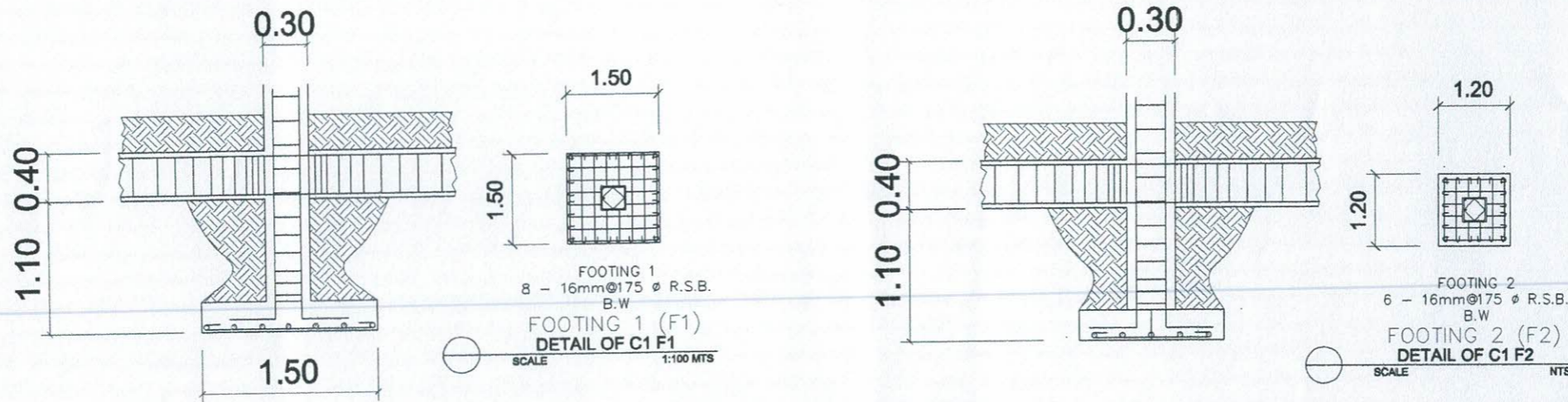


2
S 2
ROOF FRAMING PLAN
SCALE 1 : 200 MTS.

















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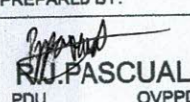
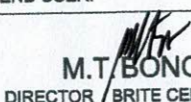
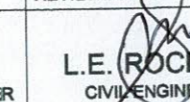
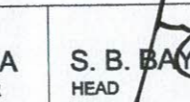
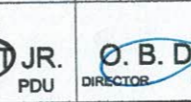

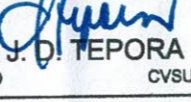
SCHEDULE OF COLUMNS

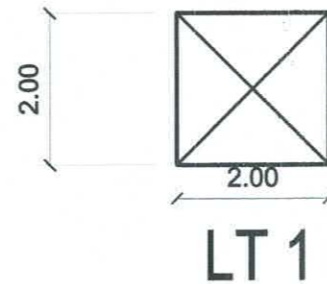
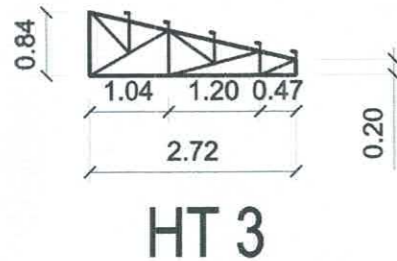
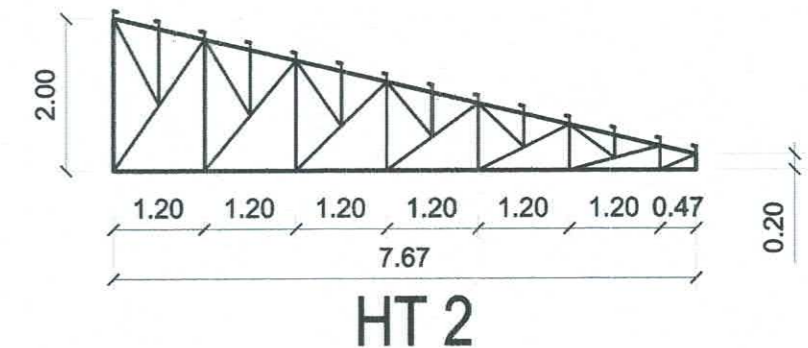
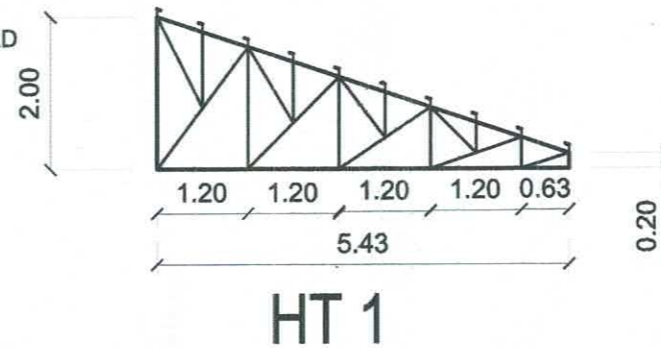
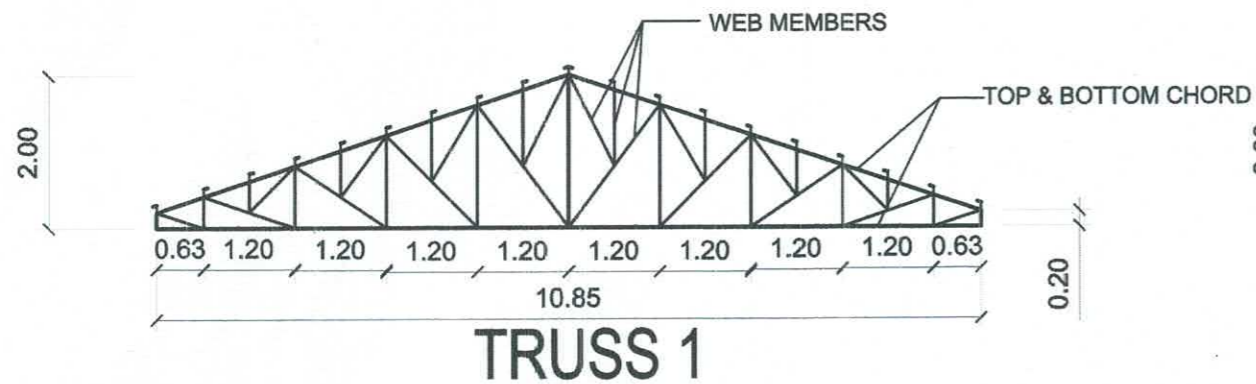
COLUMN		DIMENSION		REINFORCEMENT		NO. OF TIES & SPACING
		FOOTING - 2ND FLR.	3RD FLR. - ROOF DECK	FOOTING - 2ND FLR.	3RD FLR. - ROOF	
C1		300 MM X 300 MM	300 MM X 300 MM	8 - 16mm Ø R.S.B.	8 - 16mm Ø R.S.B.	3 SETS OF 10mm Ø TIES @ 2-50mm, 4-75mm, 6-100mm, REST @ 200mm O.C.
C2		300 MM X 300 MM	300 MM X 300 MM	8 - 20mm Ø R.S.B.	8 - 20mm Ø R.S.B.	3 SETS OF 10mm Ø TIES @ 2-50mm, 4-75mm, 6-100mm, REST @ 200mm O.C.



SCHEDULE OF BEAMS

BEAM	DIMENSION	SUPPORT		MID-SPAN		SUPPORT		BAR ARRANGEMENT		STIRRUPS REMARKS	ADDT. REMARKS
		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SUPPORT	MID-SPAN		
B-1	300mm X 450mm	3-16 MM Ø	2-16 MM Ø	2-16 MM Ø	3-16 MM Ø	3-16 MM Ø	2-16 MM Ø			10mm Ø STIRRUPS 4 - 50mm, 6 - 75mm, 6 - 100mm REST @ 200mm O.C.	USE 2 - 10mm Ø STIFFENER BARS
B-2	300mm X 450mm	5-25 MM Ø	3-25 MM Ø	3-25 MM Ø	5-25 MM Ø	5-25 MM Ø	3-25 MM Ø			- DO -	- DO -
B-3	300mm X 400mm	5-20 MM Ø	3-20 MM Ø	3-20 MM Ø	5-20 MM Ø	3-20 MM Ø	5-20 MM Ø			- DO -	- DO -
B-4	300mm X 400mm	3-20 MM Ø	5-20 MM Ø	3-20 MM Ø	5-20 MM Ø	3-20 MM Ø	5-20 MM Ø			- DO -	- DO -
B-5	200mm X 400mm	2-16 MM Ø	3-16 MM Ø	2-16 MM Ø	3-16 MM Ø	2-16 MM Ø	3-16 MM Ø			- DO -	- DO -
RB-1	200mm X 400mm	3-16 MM Ø	2-16 MM Ø	2-16 MM Ø	3-16 MM Ø	3-16 MM Ø	2-16 MM Ø			- DO -	- DO -
RB-2	200mm X 400mm	5-16 MM Ø	3-16 MM Ø	3-16 MM Ø	5-16 MM Ø	5-16 MM Ø	3-16 MM Ø			- DO -	- DO -
FTB	300mm X 400mm	3-16 MM Ø	3-16 MM Ø	3-16 MM Ø	3-16 MM Ø	3-16 MM Ø	3-16 MM Ø			- DO -	- DO -

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NOTE:

USE THE FOLLOWING:

- 2 - 2.5" X 2.5" X 1/4" THK. ANGULAR BAR FOR TOP CHORDS, BOTTOM CHORDS, & KING POSTS ON TRUSS 1 & LT1
- 2 - 2" X 2" X 1/4" THK. ANGULAR BAR FOR WEB MEMBERS ON TRUSS 1 & LT1
- 2 - 2" X 2" X 1/4" THK. ANGULAR BAR FOR TOP CHORDS, BOTTOM CHORDS, & KING POSTS ON HT1 & HT2
- 2 - 1.5" X 1.5" X 1/4" THK. ANGULAR BAR FOR WEB MEMBERS ON HT1 & HT2
- 6mm THICK GUSSET PLATES ON ALL JOINTS
- 16mm Ø ROUND BAR CROSS BRACING W/ TURN BUCKLES
- 12mm Ø ROUND BAR SAG ROD AT MIDDLE THIRD
- 50mm X 150mm X 1.5mm CEE PURLINS SPACED @ 0.60m O.C.
- 12mm THICK BASE PLATES
- 16mm Ø ANCHOR BOLTS

1
A 3

TRUSS DETAILS

SCALE

1 : 100 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
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GENERAL:

- A. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING BUILDING CODE:
 1. ACI 318-19
 2. AISC-2017
 3. NSCP-2015
- B. ALL DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES UNLESS OTHERWISE INDICATED
- C. FOR ALL OTHER REQUIREMENTS, REFER TO ARCHITECTURAL, SANITARY, ELECTRICAL AND MECHANICAL WORKING DRAWINGS.

FOOTINGS:

1. FOOTINGS ARE DESIGNED ON NATURAL GRADE LINE WITH A MIN. BEARING CAPACITY OF 144KPa AT A DEPTH OF 1.50M BELOW THE NATURAL GRADE LINE.
 2. NO FOOTING SHALL REST ON FILL.
 3. MINIMUM CONCRETE PROTECTION FOR REBARS SHALL BE 0.076m CLEAR FOR CONCRETE DEPOSITED AGAINST THE GROUND AND 0.05m CLEAR FOR CONCRETE DEPOSITED AGAINST THE FORM WORK.

CONCRETE MIXES & PLACINGS :

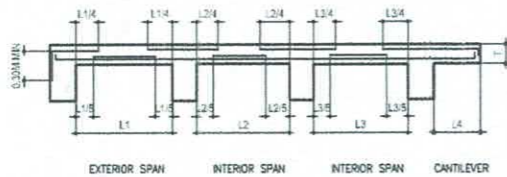
1. UNLESS OTHERWISE SPECIFIED, THE MINIMUM 28 DAYS CYLINDER COMPRESSIVE STRENGTH ARE AS FOLLOWS.
- | | |
|--|----------|
| FOOTINGS & BEAMS ON GRADE | 24.0 MPa |
| COLUMNS | 24.0 MPa |
| SLAB, BEAMS & GIRDERS | 24.0 MPa |
| PARTITIONS, PARAPET & SHEAR WALL | 24.0 MPa |
| BEDDED SLABS, CATCH BASINS & SIDE WALK | 21.0 MPa |
2. ALL CONCRETE MUST BE DEPOSITED, VIBRATED AND CURED IN ACCORDANCE WITH ACT STANDARD 318-89.
3. STRIPPING FORMS AND SHORES SHALL BE AS FOLLOWS
- | | |
|-----------------|---------|
| FOUNDATIONS | 1 DAY |
| COLUMNS & WALLS | 3 DAYS |
| BEAMS & GIRDER | 21 DAYS |
| SLABS | 17 DAYS |
4. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION RE-HANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUCKETS OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUCKETS, WHEELBARROWS, OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED 600mm IN AGGREGATE LENGTH. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATOR - UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR USUAL CONDITIONS WHERE VIBRATOR IS EXTREMELY DIFFICULT TO ACCOMPLISH.

BEAMS & GIRDERS:

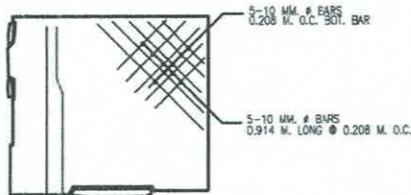
1. CAMBERS ALL BEAMS AND GIRDERS AT LEAST 62mm FOR EVERY 3.00 m OF SPAN.
2. FOR TWO OR MORE LAYERS OF REINFORCING BARS, USED SEPARATOR SPACED AT 0.914 M O.C. AND IN NO CASE SHALL BE LESS THAN TWO (2) SEPARATORS.
3. NO SPLICE SHALL BE PERMITTED ON BEAMS AND GIRDERS WHERE CRITICAL BENDING STRESSES OCCUR. TENSION SPLICE SUPERIMPOSED SHALL BE 48 DIAMETER FOR PLAIN BARS AND 24 DIAMETER FOR DEFORMED BARS. COMPRESSION SPLICE SHALL BE 40 DIA. FOR PLAIN BARS FOR PLAIN BARS AND 20 DIA. FOR DEFORMED BARS. LAP SPLICES SHALL BE WELDED TOGETHER SPLICE TOP BARS AT MID SPAN BOTTOM BARS AT SUPPORT BENT BARS AT END POINTS IN SUPERSTRUCTURE. WELDED SPLICES SHALL BE DEVELOPED INTENSIFY AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION SHALL BE PERMITTED TO BE SPLICED.
4. IF BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FURTHER FACE OF THE WALL SHALL NOT BE LESS THAN 0.051m EMBEDMENT LENGTH SHALL BE 40 DIA FOR TENSION AND 20 DIA. COMPRESSION BARS.
5. MINIMUM CONCRETE PROTECTION REINFORCING BARS OR SHAPE SHALL BE AS SHOWN
-
6. UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS, CAMBER ALL BEAMS AND GIRDERS AT LEAST 62 mm FOR EVERY 3.00m OF SPAN EXCEPT CANTILEVERS FOR WHICH THE CAMBERS SHALL BE AS NOTED IN THE PLANS OR ORDERED THE DESIGNER, BUT IN NO CASE LESS THAN 6.7mm. FOR EVERY 3.00M OF FREE SPAN.

CONCRETE SLABS:

1. ALL REINFORCEMENT SHALL BE 0.019m CLEAR MINIMUM FROM TOP AND BOTTOM OF SLAB.
 2. FOR TWO-WAY SLAB BARS ALONG SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONGER SPAN AT CENTER AND OVER THE LONGER SPAN BARS NEAR THE SUPPORT UNLESS OTHERWISE INDICATED OR SHOWN IN DETAILS THE SPACING OF THE BARS AT THE COLUMN STRIPS CAN BE APPROXIMATELY 1-1/3 OF THE MIDDLE STRIPS BUT IN NO CASE GREATER THAN 2-1/3 TIMES THE SLAB THICK.
 3. UNLESS OTHERWISE SHOWN IN DETAIL FOR ONE WAY SLAB, REINFORCING BARS SHALL BE BEND, EXTENDED OR CUT AS FOLLOWS. NO CASE LESS THAN 6.7mm. FOR EVERY 3.00M OF FREE SPAN.



4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE TENSION FACE AND SHALL NOT BE LESS THAN 25mm. BOTTOM.
5. UNLESS OTHERWISE NOTED, ALL BEDDED SLAB SHALL BE REINFORCED WITH Ø10 BAR AT 0.25M O.C. W/ AT CENTER OF SLAB. CONSTRUCTION JOINTS FOR SLAB SHALL NOT BE MORE THAN 3.00M APART.
6. PROVIDE EXTRA REINFORCEMENT AT CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGE.) AS SHOWN BELOW.



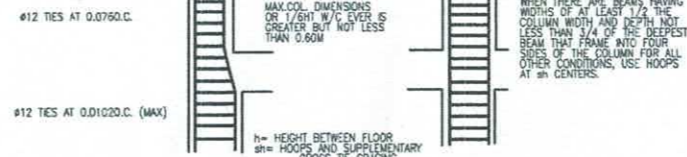
7. PROVIDE SUPPLEMENTARY REINFORCEMENT AS SMALL UNFRAMED OPENING IN FLOOR SLAB AS SHOWN BELOW

CONCRETE HOLLOW BLOCKS:

REINFORCEMENT AS TABULATED BELOW SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED IN THE PLAN

BLOCK THK.	CONCRETE HOLLOW BLOCKS REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
0.76 M	# 10 AT 0.60 M	# 10 AT 0.60 M	A. MIN SPLICE AT LAP-JOINT B. PROVIDE BENT BARS
0.100 M	# 10 AT 0.60 M	# 10 AT 0.60 M	C. PROVIDE BENT BARS AT CORNER
0.150 M	# 10 AT 0.60 M	# 10 AT 0.60 M	D. PROVIDE BENT BARS AT CORNER
0.200 M	# 12 AT 0.60 M	# 10 AT 0.60 M	E. PROVIDE BENT BARS AT CORNER

CONCRETE COLUMN:



COLUMN TIES SHALL BE PROTECTED EVERY WHERE BY A COVERING OF CONCRETE CAST MONOLITHIC ALY WITH THE CORE OF MAXIMUM THICKNESS OF 0.0127m. AND NOT LESS THAN 1/2 TIMES MAXIMUM SIZE OF COARSE AGGREGATE. WHERE COLUMNS CHANGE IN SIZE VERTICAL REINFORCEMENT SHALL BE OFF-SET AT A SLOPE OF NOT MORE THAN 25mm. AND EXTRA 12mm AT 76mm. O.C. SHALL BE PROVIDED THROUGHOUT THE OFF-SET REGION.

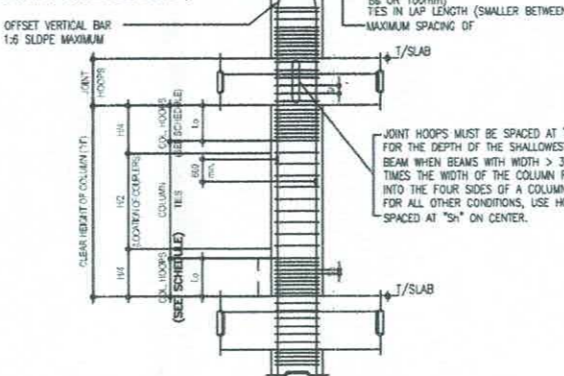
MILD STEEL REINFORCEMENT:

1. ALL MILD STEEL REINFORCEMENT SHALL CONFORM TO ASTM A-15-62-21 AND DEFORMATIONS TO A 305- 56T OR LATEST REVISIONS.
 2. DEVELOPMENT LENGTH FOR ALL BARS SHALL BE A MINIMUM OF 40 BARS DIA. UNLESS OTHERWISE SPECIFIED.

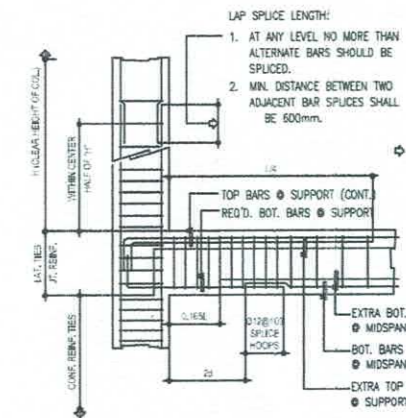
STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 Fy= 36,000 PSI
 2. WELDING SHALL CONFORM TO AWS STANDARDS
 3. FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER AND THE OWNER PRIOR TO FABRICATION.

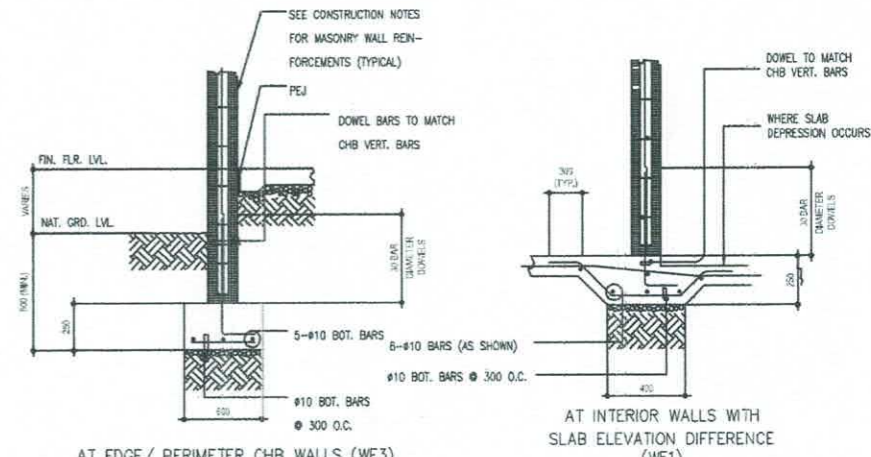
TENSION LAP SPLICE ONLY WITHIN CENTER HALF OF CLEAR COLUMN HEIGHT. (SEE TABLE OF MINIMUM LAP SPLICE LENGTH OF COLUMN REINFORCEMENT)



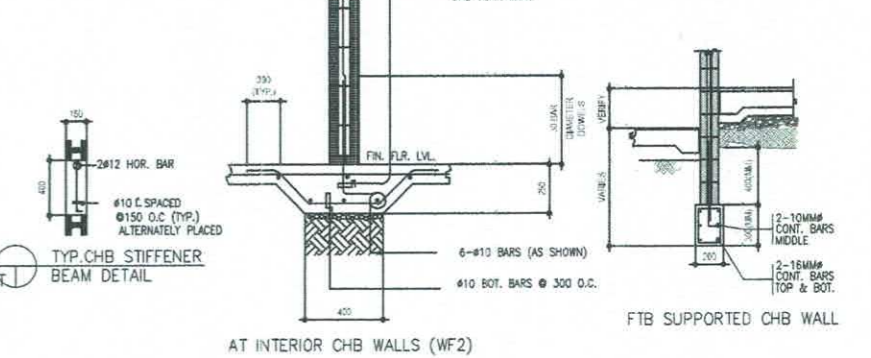
- NOTES:
 SH = HOOP AND SUPPLEMENTARY CROSS SECTION NOT TO EXCEED SH/4 OR 100mm.
 SH = COLUMN SPACING, NOT TO EXCEED 16db OF VERTICALS, 48db OF TIES, SH OR 150mm, WHICHEVER IS LESSER.
 SH = SMALLER DIMENSION OF COLUMN CROSS SECTION.
 SH = LARGEST COLUMN DIMENSION, & OF CLEAR HEIGHT OR 450mm, WHICHEVER IS GREATER.
 H = CLEAR HEIGHT OF COLUMN.



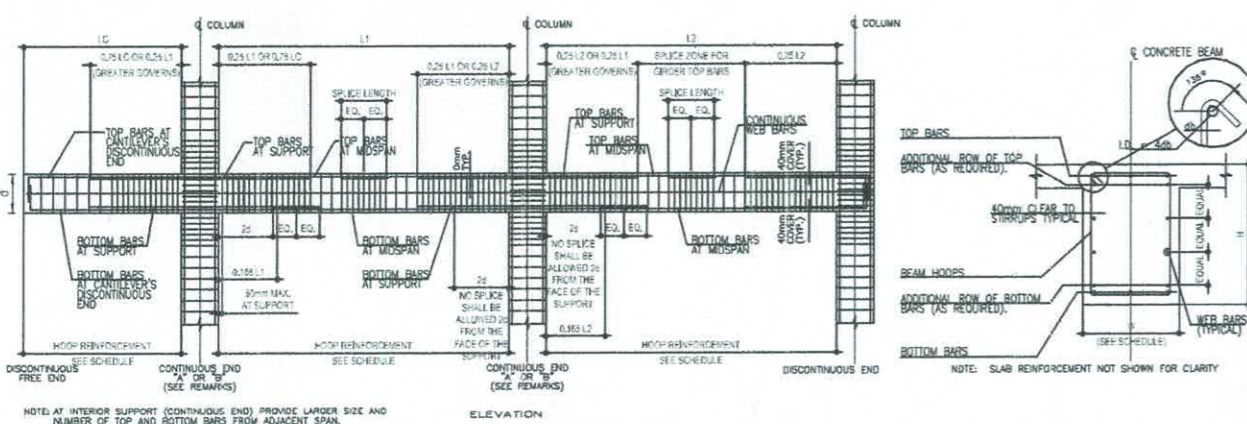
COLUMN LAP SPLICE AND EXT. BEAM TO COLUMN CONN. DETAIL



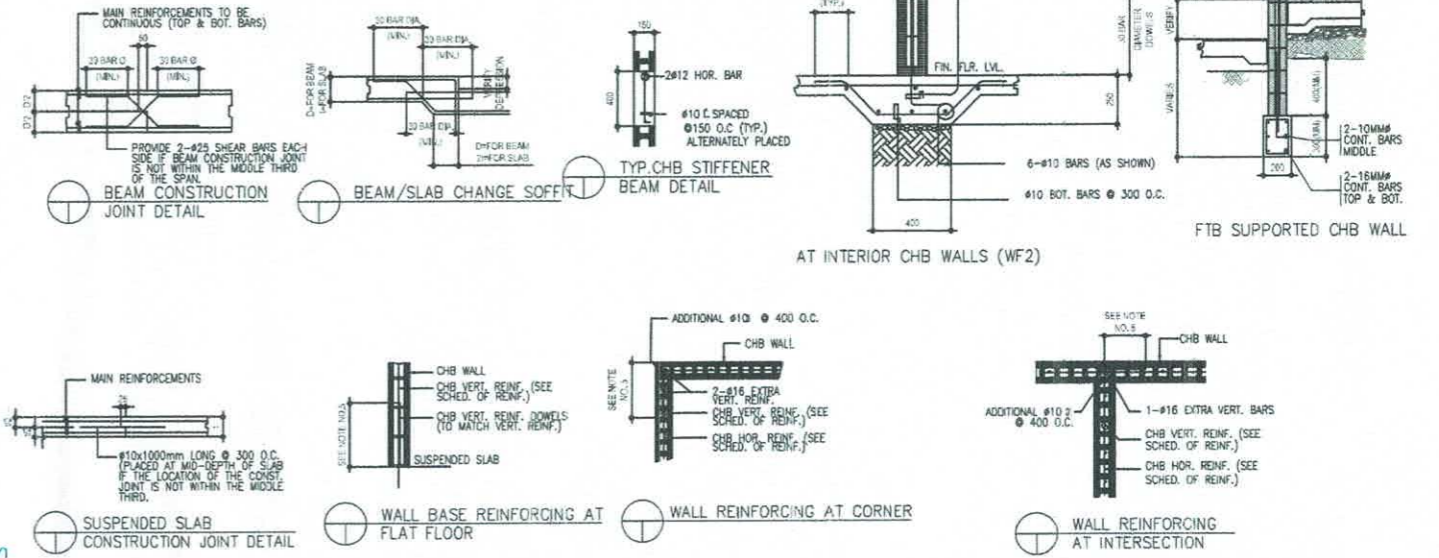
AT INTERIOR WALLS WITH SLAB ELEVATION DIFFERENCE (WF1)
AT EDGE/ PERIMETER CHB WALLS (WF3)



AT INTERIOR CHB WALLS (WF2)
FTB SUPPORTED CHB WALL



TYPICAL REINFORCED CONCRETE BEAM DETAIL



	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
	 R. PASCUAL PDU OVPD	 M.T. BONO DIRECTOR BRITE CENTER	 L. E. RODEROS CIVIL ENGINEER	 S. B. BAYOT JR. HEAD PDU	 O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	 A.G. MAGCAWAS VPPD	 M. D. ROBLES PRES CVSU	CONSTRUCTION OF TWO-STOUREY BRITE CENTER CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY

GENERAL NOTES AND SPECIFICATIONS:

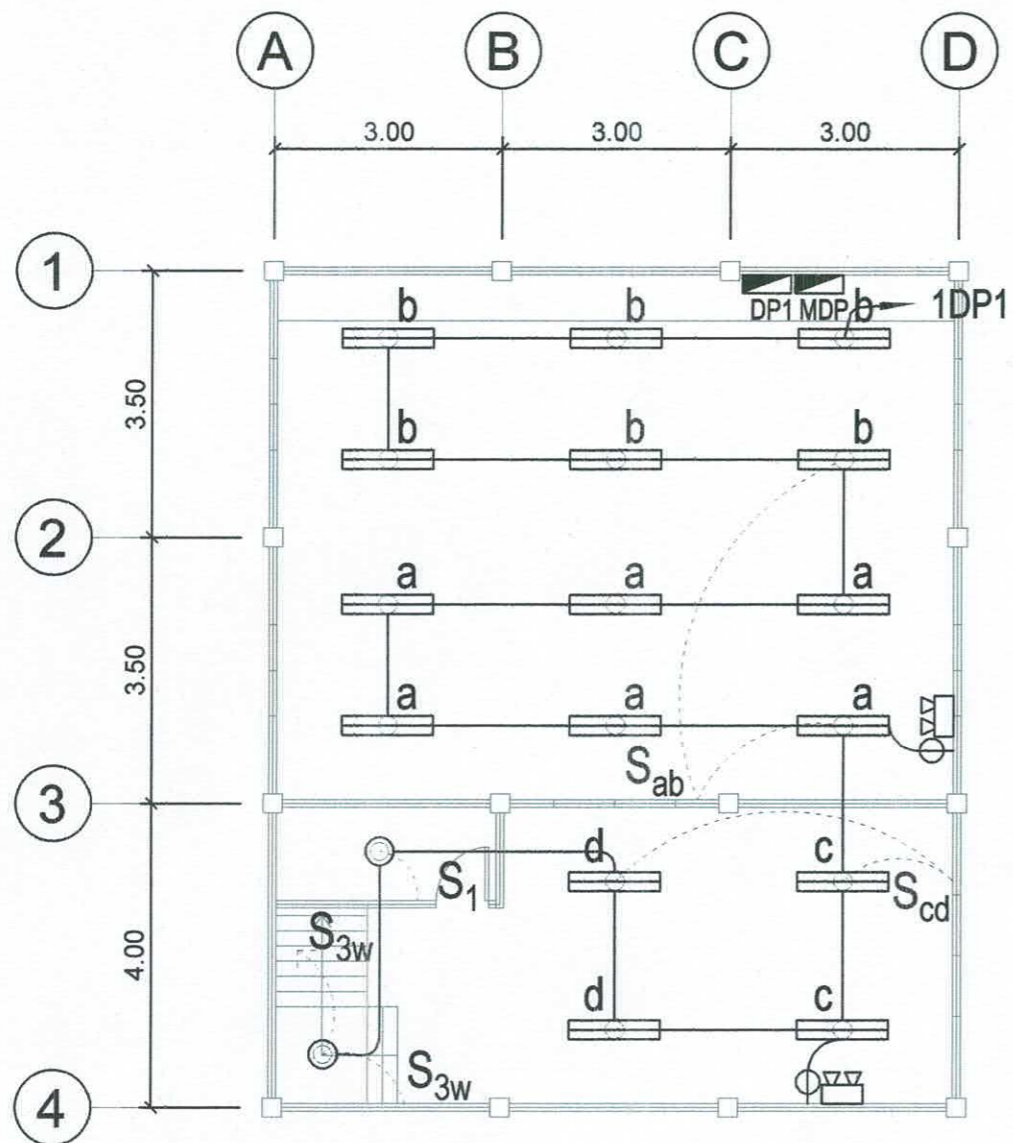
1. ALL WORK HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
2. ELECTRICAL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, MUNICIPAL/CITY LAWS AND ORDINANCES AND THE REGULATIONS FO THE LOCAL POWER AND TELEPHONE COMPANY.
3. THE JOB SHALL BE EXECUTED IN THE MOST THOROUGH PROMPT AND WORKMANLIKE MANNER EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICE. THE JOB SHALL BE DONE IN ALL ASPECTS AS REQUIRED PER PLANS AND SPECIFICATIONS AND READY FOR OPERATION.
4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PERSENT A GENERAL LAYOUT AND BROAD OUTLINE/DESCRIPTION OF THE PROJECT, BUT DO NOT NECESSARILY INDICATE OR DESCRIBE ACTUAL LOCATIONS, LEVELS AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADJUSTMENTS AT THE JOBSITE THAT ARE GOVERNED BY ACTUAL FIELD CONDITION.
5. SERVICE VOLTAGE TO THE BUILDING FROM THE POWER SOURCE SHALL BE 230V.
6. SERVICE ENTRANCE WIRING SHALL BE RIGID STEEL CONDUIT (RSC).
7. FEEDER WIRING SHALL BE ELECTRICAL METALLIC TUBING (EMT).
8. BRANCH CIRCUIT WIRING ELECTRICAL METALLIC TUBING (EMT).
9. BRANCH CIRCUIT WIRING EMBEDDED IN CONCRETE SHALL BE IN PVC PIPE WITH ADEQUATE GROUND WIRE FOR EQUIPMENT GROUNDING.
10. LIGHT SWITCHES SHALL BE 15A, 230VAC.
11. ALL MATERIALS SHALL BE BRAND NEW AND OF APPROVED TYPE FOR LOCATION AND PURPOSE INTENDED.
12. DEVICES, FIXTURES LOCATED OUTDOOR SHALL BE WEATHERPROOF TYPE.
13. MOUNTING HEIGHTS ARE:

A. LIGHT SWITCHES	1.40M ABOVE FLOOR FINISH
B. CONVENIENCE OUTLETS	0.30M ABOVE FLOOR FINISH
C. COUNTER TOP C.O,	0.40M TO .50M ABOVE THE COUNTER
D. TELEPHONE OUTLETS	0.30M ABOVE FLOOR FINISH
E. PANEL BOARD	1.50M ABOVE FLOOR FINISH
F. EMERGENCY LIGHT	0.30M BELOW CEILING LINE
14. ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR DECISION.
15. THE ENTIRE WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF DULY REGISTERED ELECTRICAL ENGINEER.
16. REFER TO SHEETS E-2 TO E-4 FOR EXACT NUMBER AND LOCATION OF DEVICES/EQUIPMENT FOR ELECTRICAL SYSTEM. ANY CONFLICT ON QUANTITY AND/OR LAYOUT MUST BE VERIFIED AND CONFIRMED TO DESIGNER/CONSULTANT.
17. REFER TO LOAD SCHEDULE FOR THE RATING OF INDIVIDUAL ENCL, ACB'S IN NEMA-3R.
18. ALL ELECTRICAL CONDUITS AND TELEPHONE SERVICE ENTRANCE THAT INSTALLED BELOW THE GROUND SHALL BE IN CONCRETE ENCASEMENT.
19. ANY DEVICES OR EQUIPMENT NOT REFLECTED OR SHOWN ON PLANS BUT REQUIRED TO COMPLETE THE SYSTEM MUST BE INCLUDED ON SCOPE OF WORK.
20. REQUEST FOR TEMPORARY POWER INTERRUPTION SHOULD BE COORDINATED TO OWNER'S REPRESENTATIVE OR DESIGNER.
21. THE SIZE OF GENERATOR IS 40% OF THE TOTAL VA LOAD. THIS IS INTENDED TO SUPPLY ELECTRIC POWER FOR LIGHTINGS AND OTHER IMPORTANT APPLIANCES DURING THE POWER INTERRUPTION OF MAIN POWER SOURCE.

LEGEND AND SYMBOLS :

	12 WATTS LED DOWNLIGHT WITH 6" SURFACE TYPE ROUND CASING		CIRCUIT BREAKER WITH NEMA 3R METAL ENCLOSURE
	1-9W LED TUBE LIGHT WITH DIFFUSER, 2 FT. LENGTH (FL)		ACU CONDENSER OUT DOOR UNIT WITH NEMA 3R CIRCUIT BREAKER
	2-9W LED TUBE LIGHT WITH DIFFUSER, 2 FT. LENGTH (FL)		ACU WALL/FLOOR MOUNTED, SPLIT TYPE, INDOOR UNIT
	1-18W LED TUBE LIGHT WITH DIFFUSER, 4 FT. LENGTH (FL)		2.0 mm ² THHN
	2-18W LED TUBE LIGHT WITH DIFFUSER, 4 FT. LENGTH (FL)		3.5 mm ² THHN
	EMERGENCY LIGHT (EL)		CIRCUIT HOMERUN
	ONE GANG SWITCH	1LPP1	CIRCUIT NUMBER
	TWO GANG SWITCH		PANEL BOARD
	THREE GANG SWITCH		SERVICE ENTRANCE
	THREE WAY SWITCH		KILOWATT HOUR METER
	TWO-GANG CONVENIENCE OUTLET UNIVERSAL TYPE WITH GROUND		CONCRETE ENCASEMENT
	CEILING FAN OUTLET		CABLE CHAMBER
	TWO GANG CONVENIENCE OUTLET (FLOOR MOUNTED)		DISTRIBUTION TRANSFORMER
	TWO GANG SPECIAL POWER OUTLET (FLOOR MOUNTED)		PRIMARY CONCRETE POLE
	THREE PIN ACU OUTLET		SERVICE ENTRANCE PEDESTAL WITH DISCONNECTING SWITCH
	ACU WINDOW TYPE		SECONDARY LINE

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	R. J. R. SANCHEZ PDU	M. T. BONO DIRECTOR BRITE CENTER	R. P. PEÑA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPPD	J. X. B. NEPOMUCENO VPASS	H. D. ROBLES PREV	CONSTRUCTION OF TWO STOREY BRITE CENTER (REVISED)	CAVITE STATE UNIVERSITY CAVITE STATE UNIVERSITY MAIN CAMPUS

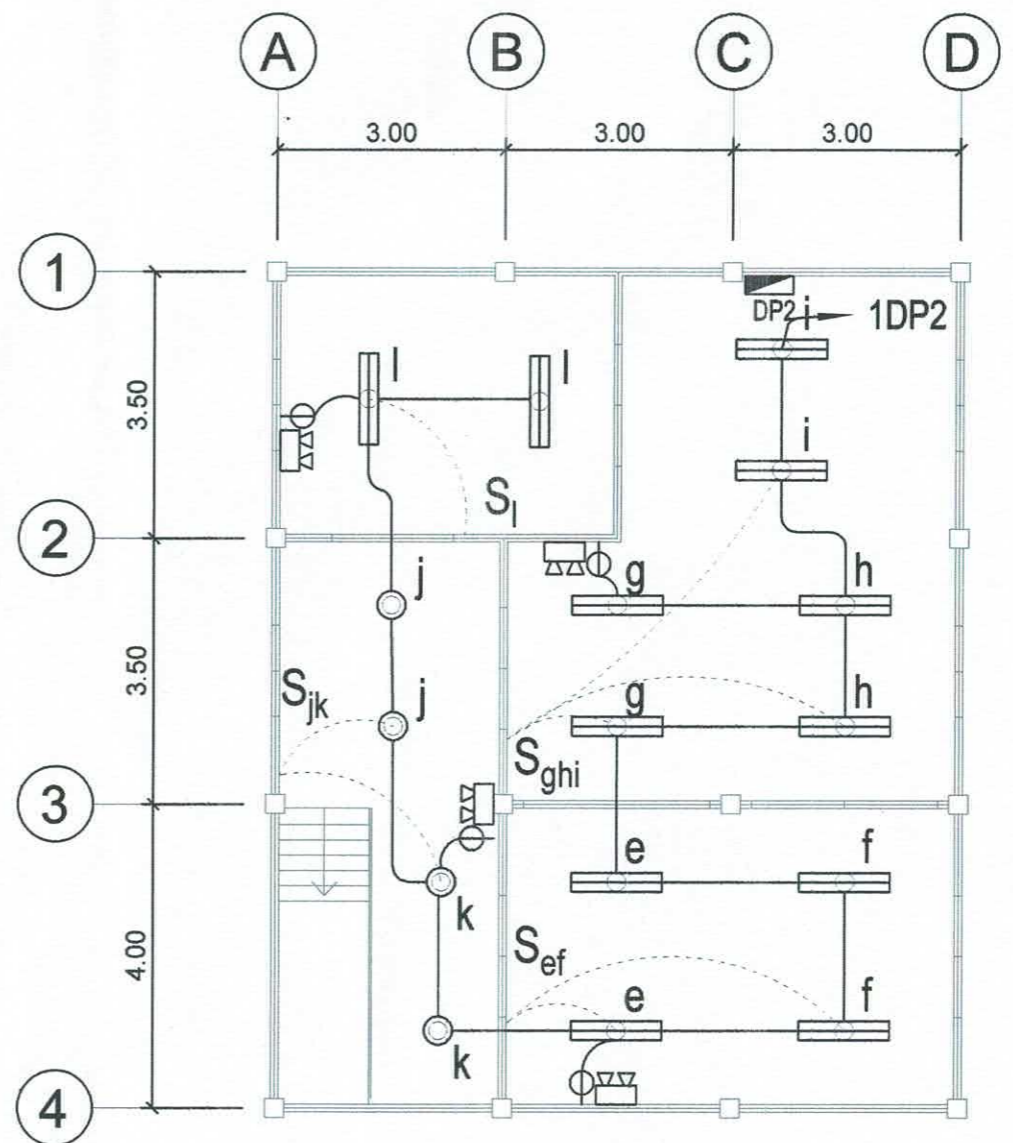


**GROUND FLOOR PLAN
LIGHTING LAYOUT**

1
E2

SCALE

1 : 100 MTS.



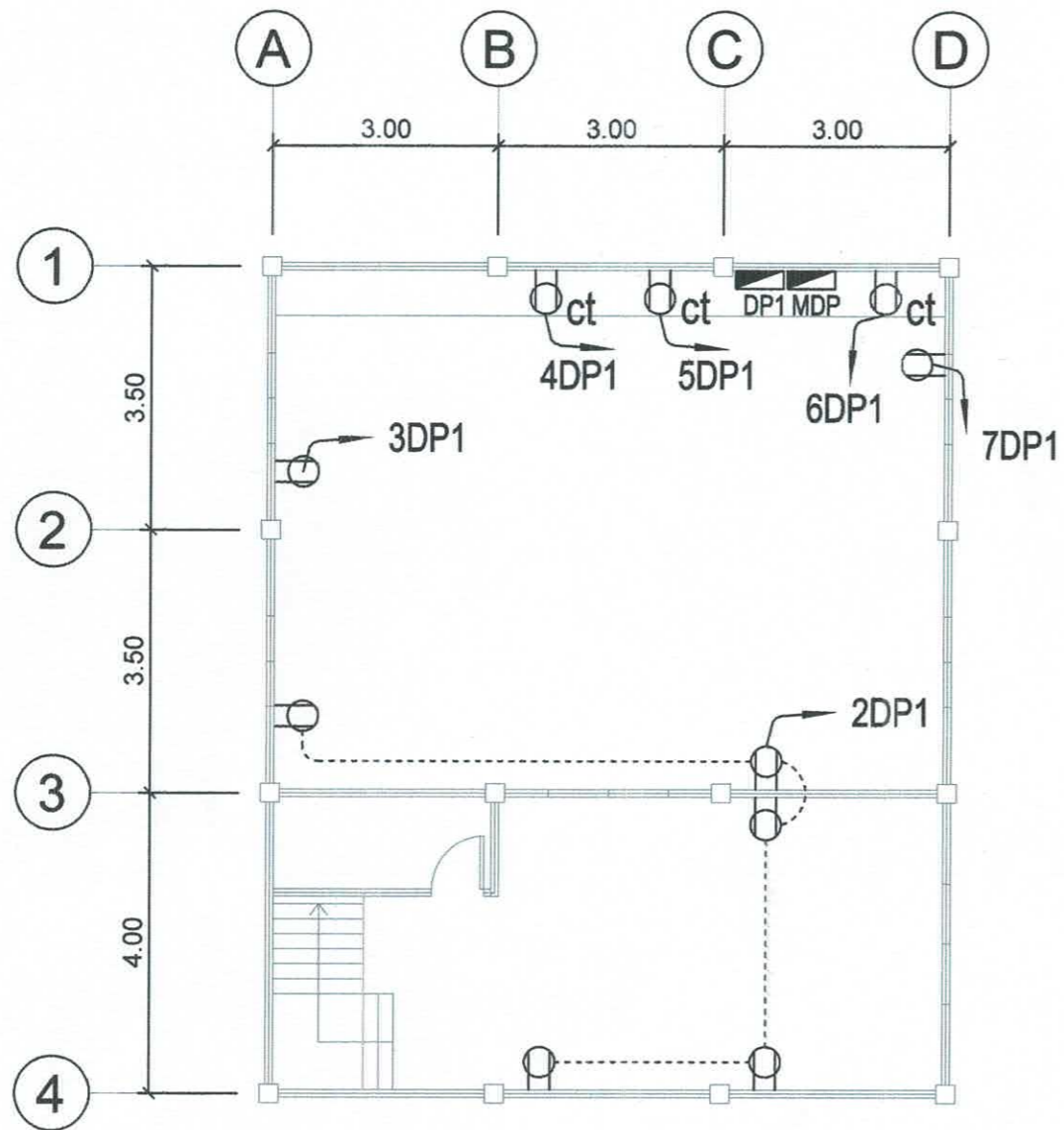
**SECOND FLOOR PLAN
LIGHTING LAYOUT**

2
E2

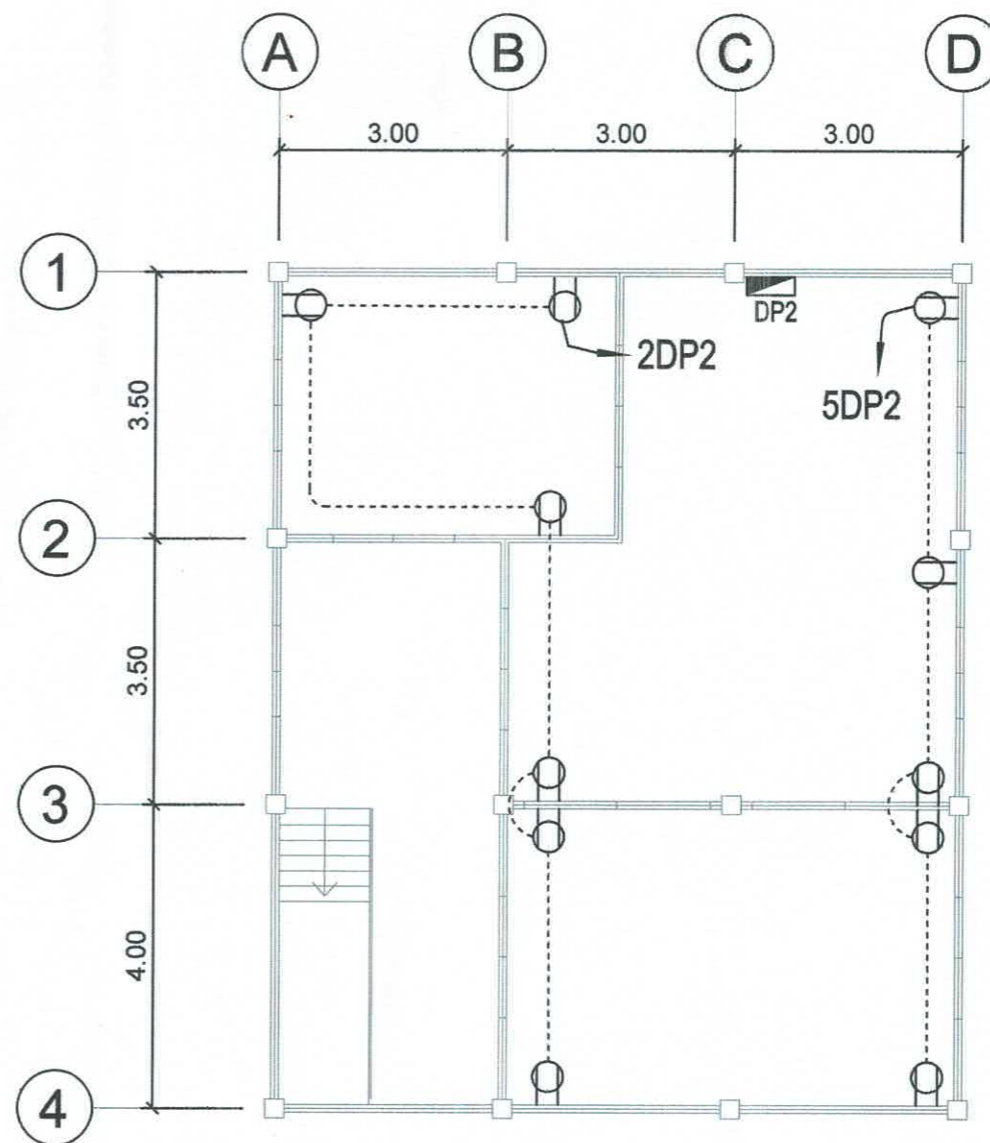
SCALE

1 : 100 MTS.

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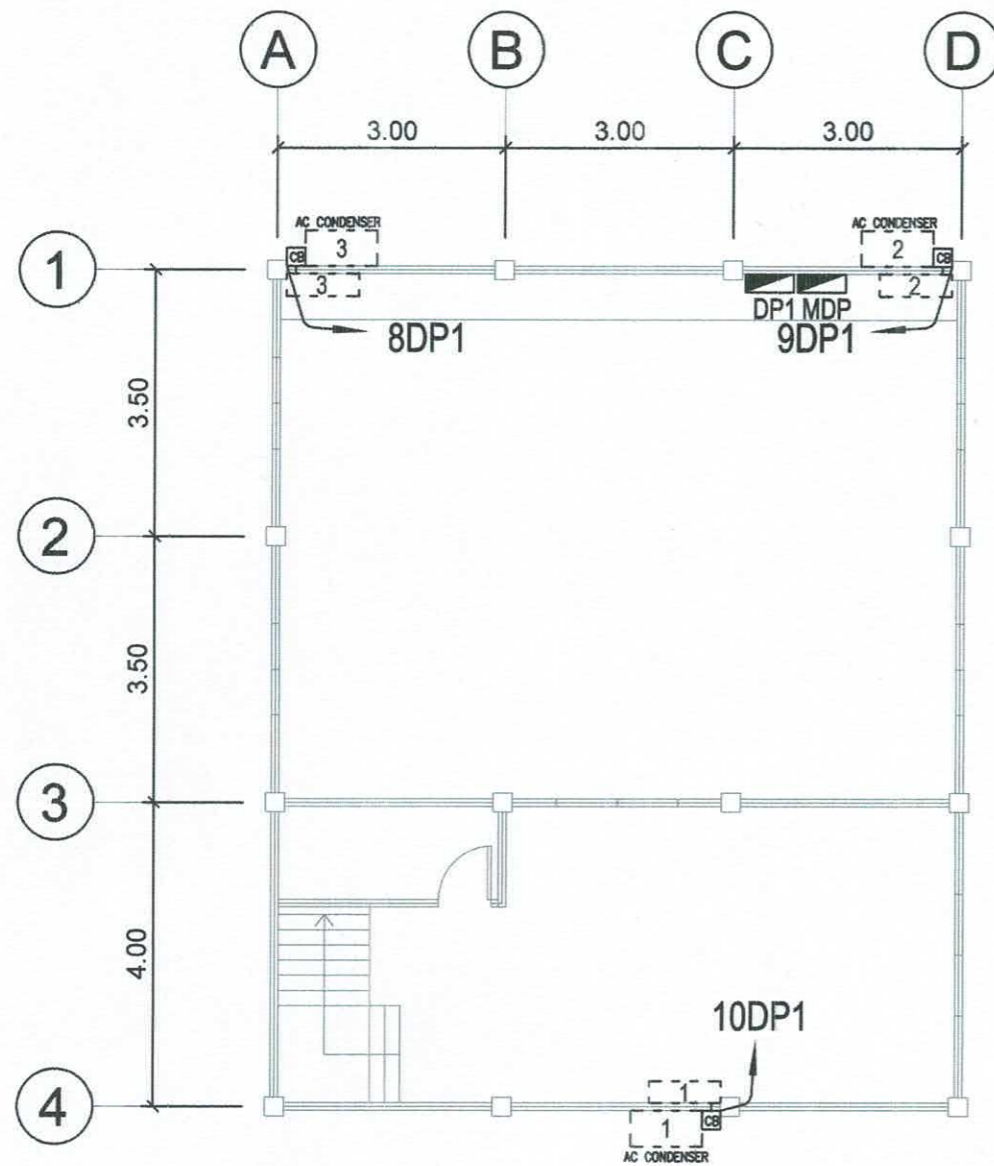


1
E 3
GROUND FLOOR PLAN
CONVENIENCE OUTLET LAYOUT
SCALE 1 : 100 MTS.



1
E 3
SECOND FLOOR PLAN
CONVENIENCE OUTLET LAYOUT
SCALE 1 : 100 MTS.

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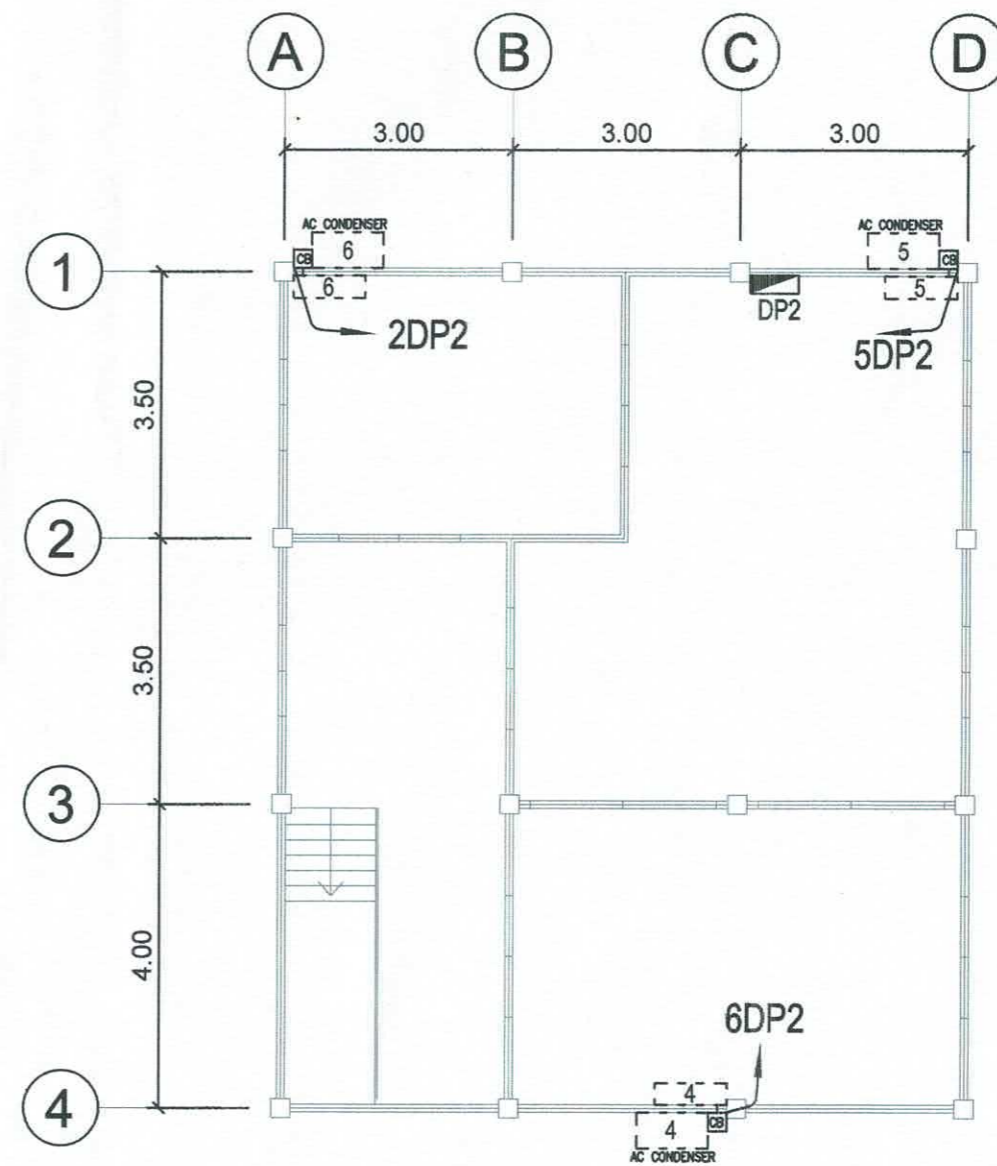


**GROUND FLOOR PLAN
ACU POWER OUTLET LAYOUT**

1
E 4

SCALE

1 : 100 MTS.



**SECOND FLOOR PLAN
ACU POWER OUTLET LAYOUT**

1
E 4

SCALE

1 : 100 MTS.

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SCHEDULE OF LOADS AND COMPUTATIONS :

PANEL : DP 1 (DISTRIBUTION PANEL 1)				CABLE: 3 - 30.0 SQMM THHN+ 1 - 14.0 SQMM THHN				MAIN: 100AT, 200AF, 3P, 230V, MCCB					
PHASE: 3				CONDUIT: PVC, 40 MM DIA.				ENCLOSURE : NEMA 1					
VOLTS: 230				LOCATION: GROUND FLOOR, LABORATORY				MOUNTING: SURFACE					
CKT NO.	CIRCUIT DESCRIPTION	NO. OF OUTLET	LOAD IN RATING				CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code		
			Volt-Amp	VOLT	AMPERES				SQ. MM THHN STRANDED CU. WIRE			SQ. MM THHN(G) STRANDED CU. WIRE	
					3ø	AB		CA					BC
							CIRCUIT BREAKER RATING						
1	LIGHTING OUTLET	20	2000	230		8.70			15AT, 2P, 230V, MCCB	2 - 2.0	PVC, 20	1R,1B	
2	CONVENIENCE OUTLET	5	1000	230		4.35			20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0	PVC, 20	1R,1B,G	
3	SPECIAL PURPOSE OUTLET	1	2500	230			10.87		20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0	PVC, 20	1Y,1R,G	
4	SPECIAL PURPOSE OUTLET	1	2500	230			10.87		20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0	PVC, 20	1Y,1R,G	
5	SPECIAL PURPOSE OUTLET	1	2500	230				10.87	20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0	PVC, 20	1B,1Y,G	
6	SPECIAL PURPOSE OUTLET	1	2500	230				10.87	20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0	PVC, 20	1B,1Y,G	
7	SPECIAL PURPOSE OUTLET	1	2500	230		10.87			20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0	PVC, 20	1R,1B,G	
8	ACU POWER OUTLET	1	1500	230		12.00			30AT, 2P, 230V, MCCB	2 - 5.5 + G 3.5	PVC, 20	1R,1B,G	
9	ACU POWER OUTLET	1	1500	230			12.00		30AT, 2P, 230V, MCCB	2 - 5.5 + G 3.5	PVC, 20	1Y,1R,G	
	SPACE												
10	ACU POWER OUTLET	1	1500	230				12.00	30AT, 2P, 230V, MCCB	2 - 5.5 + G 3.5	PVC, 20	1B,1Y,G	
	SPACE												
TOTAL			20000	230		36	34	34	100AT, 3P, 230V, MCCB	3 - 30.0 + G 14.0	PVC, 40	1R,1B,1Y,G	

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE: $I_{FL} = [(36 \times 1.732) + (125\% \times 1m)] \times DF = 61.88 \text{ Amperes}$
 $I_{CB} = [(36 \times 1.732) + (250\% \times 1m)] \times DF = 73.88 \text{ Amperes}$

G - Means Ground Wire
 1R- Color RED
 1B- Color BLACK
 1Y- Color YELLOW
 1G- Color GREEN

use: 3 - 30.0 SQMM THHN+ 1 - 14.0 SQMM THHN IN 40 MM DIA. PVC
 use: 100AT, 200AF, 3P, 230V, MCCB

*This Electrical Design is good only for the above connected loads.
 Any additional electrical load connection in the future is not allowed,
 Except redesign of electrical load system will be done.*

PANEL : DP 2 (DISTRIBUTION PANEL 2)				CABLE: 3 - 22.0 SQMM THHN+ 1 - 14.0 SQMM THHN				MAIN: 70AT, 100AF, 3P, 230V, MCCB					
PHASE: 3				CONDUIT: PVC, 32 MM DIA.				ENCLOSURE : NEMA 1					
VOLTS: 230				LOCATION: SECOND FLOOR, OFFICE				MOUNTING: SURFACE					
CKT NO.	CIRCUIT DESCRIPTION	NO. OF OUTLET	LOAD IN RATING				CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code		
			Volt-Amp	VOLT	AMPERES				SQ. MM THHN STRANDED CU. WIRE			SQ. MM THHN(G) STRANDED CU. WIRE	
					3ø	AB		CA					BC
							CIRCUIT BREAKER RATING						
1	LIGHTING OUTLET	20	2000	230		8.70			15AT, 2P, 230V, MCCB	2 - 2.0	PVC, 20	1R,1B	
2	ACU POWER OUTLET	1	1500	230		12.00			30AT, 2P, 230V, MCCB	2 - 5.5 + G 3.5	PVC, 20	1R,1B,G	
3	CONVENIENCE OUTLET	6	1200	230			5.22		20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0	PVC, 20	1Y,1R,G	
4	ACU POWER OUTLET	1	1500	230			12.00		30AT, 2P, 230V, MCCB	2 - 5.5 + G 3.5	PVC, 20	1Y,1R,G	
5	CONVENIENCE OUTLET	5	1000	230				4.35	20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0	PVC, 20	1B,1Y,G	
6	ACU POWER OUTLET	1	1500	230				12.00	30AT, 2P, 230V, MCCB	2 - 5.5 + G 3.5	PVC, 20	1B,1Y,G	
7	SPACE												
8	SPACE												
TOTAL			8700	230		21	17	16	70AT, 3P, 230V, MCCB	3 - 22.0 + G 14.0	PVC, 32	1R,1B,1Y,G	


MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE: $I_{FL} = [(21 \times 1.732) + (125\% \times 1m)] \times DF = 41.10 \text{ Amperes}$
 $I_{CB} = [(21 \times 1.732) + (250\% \times 1m)] \times DF = 53.10 \text{ Amperes}$

G - Means Ground Wire
 1R- Color RED
 1B- Color BLACK
 1Y- Color YELLOW
 1G- Color GREEN

use: 3 - 22.0 SQMM THHN+ 1 - 14.0 SQMM THHN IN 32 MM DIA. PVC
 use: 70AT, 100AF, 3P, 230V, MCCB

*This Electrical Design is good only for the above connected loads.
 Any additional electrical load connection in the future is not allowed,
 Except redesign of electrical load system will be done.*

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PANEL : MDP (MAIN DISTRIBUTION PANEL)			CABLE: 3 - 38.0 SQMM THHN+ 1 - 14.0 SQMM THHN				MAIN: 125AT, 200AF, 3P, 230V, MCCB						
PHASE: 3			CONDUIT: RSC, 40 MM DIA.				ENCLOSURE: NEMA 1						
VOLTS: 230			LOCATION: GROUND FLOOR, LABORATORY				MOUNTING: SURFACE						
CKT NO.	CIRCUIT DESCRIPTION	PANEL NAME	LOAD IN RATING				CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit in MM Ø	Color Code		
			Volt- Amp	VOLT	AMPÈRES			SQ. MM THHN STRANDED CU. WIRE	SQ. MM THHN(G) STRANDED CU. WIRE				
					3Ø	AB	CA	BC	CIRCUIT BREAKER RATING				
1	DISTRIBUTION PANEL 1	DP 1	20000	230		35.91	33.74	33.74	100AT, 3P, 230V, MCCB	3 - 30.0	+ G 14.0	PVC, 40	1R,1B,1Y,G
2	DISTRIBUTION PANEL 2	DP 2	8700	230		20.70	17.22	16.35	70AT, 3P, 230V, MCCB	3 - 22.0	+ G 14.0	PVC, 32	1R,1B,1Y,G
3	FIRE ALARM CONTROL PANEL	FACP	500	230				2.17	15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y
4	WATER PUMP	WPP	800				8.00		20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	PVC, 20	1Y,1R,G
TOTAL			30000	230		57	59	52	125AT, 3P, 230V, MCCB	3 - 38.0	+ G 14.0	RSC, 40	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

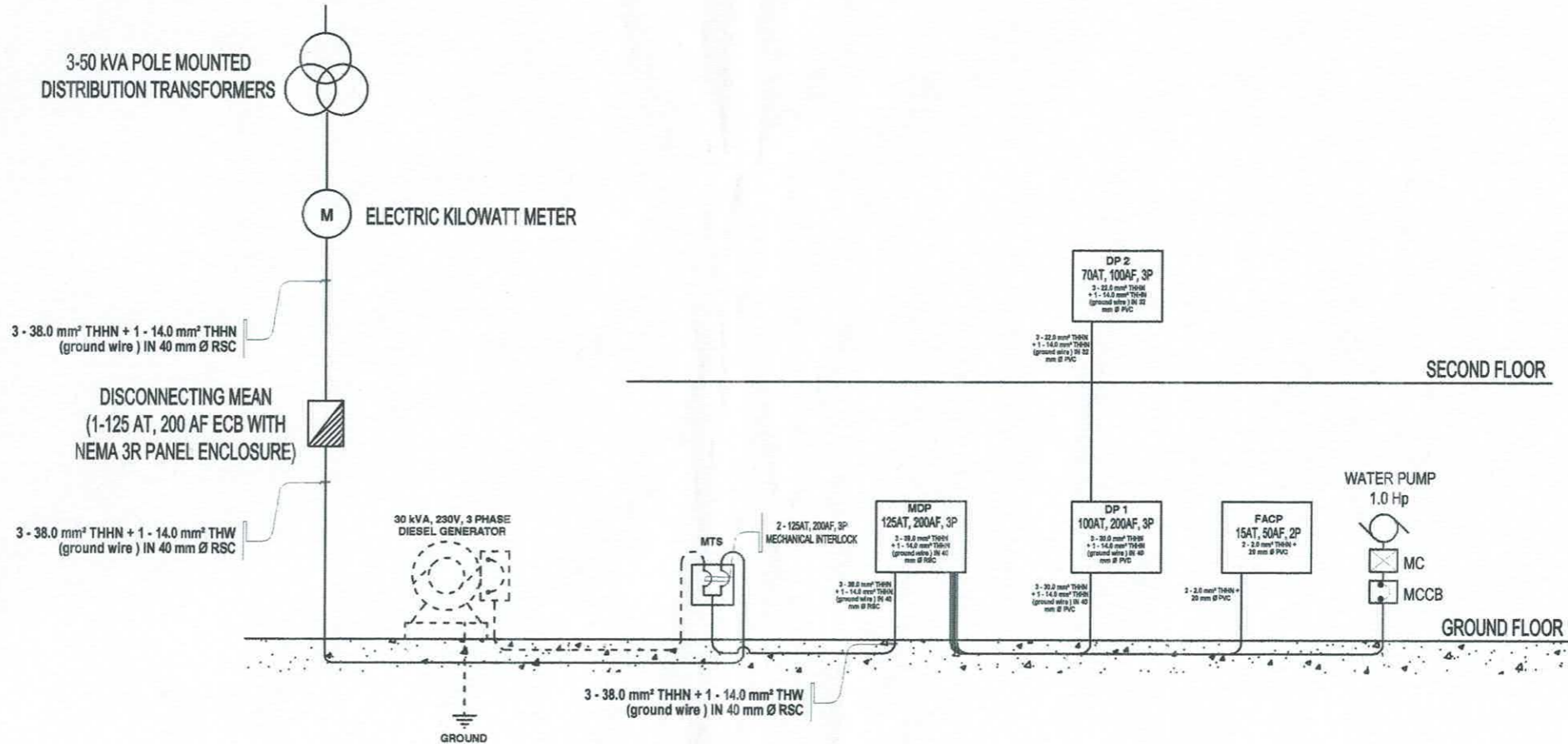
NOTE: $I_{FL} = \frac{[(59 \times 1.732) + (126\% \times 1m)] \times DF}{\sqrt{3}} = 89.75$ Amperes

$I_{CB} = \frac{[(59 \times 1.732) + (250\% \times 1m)] \times DF}{\sqrt{3}} = 97.75$ Amperes

G - Means Ground Wire
 1R- Color RED
 1B- Color BLACK
 1Y- Color YELLOW
 1G- Color GREEN

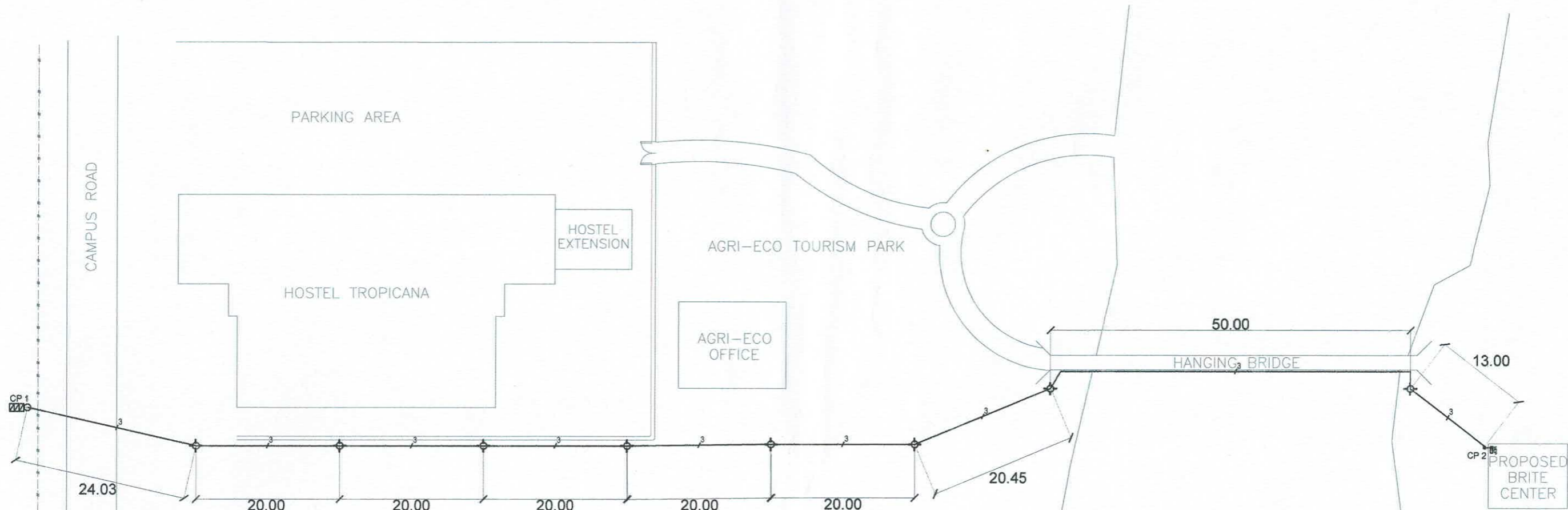
use: 3 - 38.0 SQMM THHN+ 1 - 14.0 SQMM THHN IN 40 MM DIA. RSC
 use: 125AT, 200AF, 3P, 230V, MCCB

This Electrical Design is good only for the above connected loads.
 Any additional electrical load connection in the future is not allowed,
 Except redesign of electrical load system will be done.



1 SINGLE LINE DIAGRAM
E6 SCALE NTS

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LEGEND AND SYMBOL:

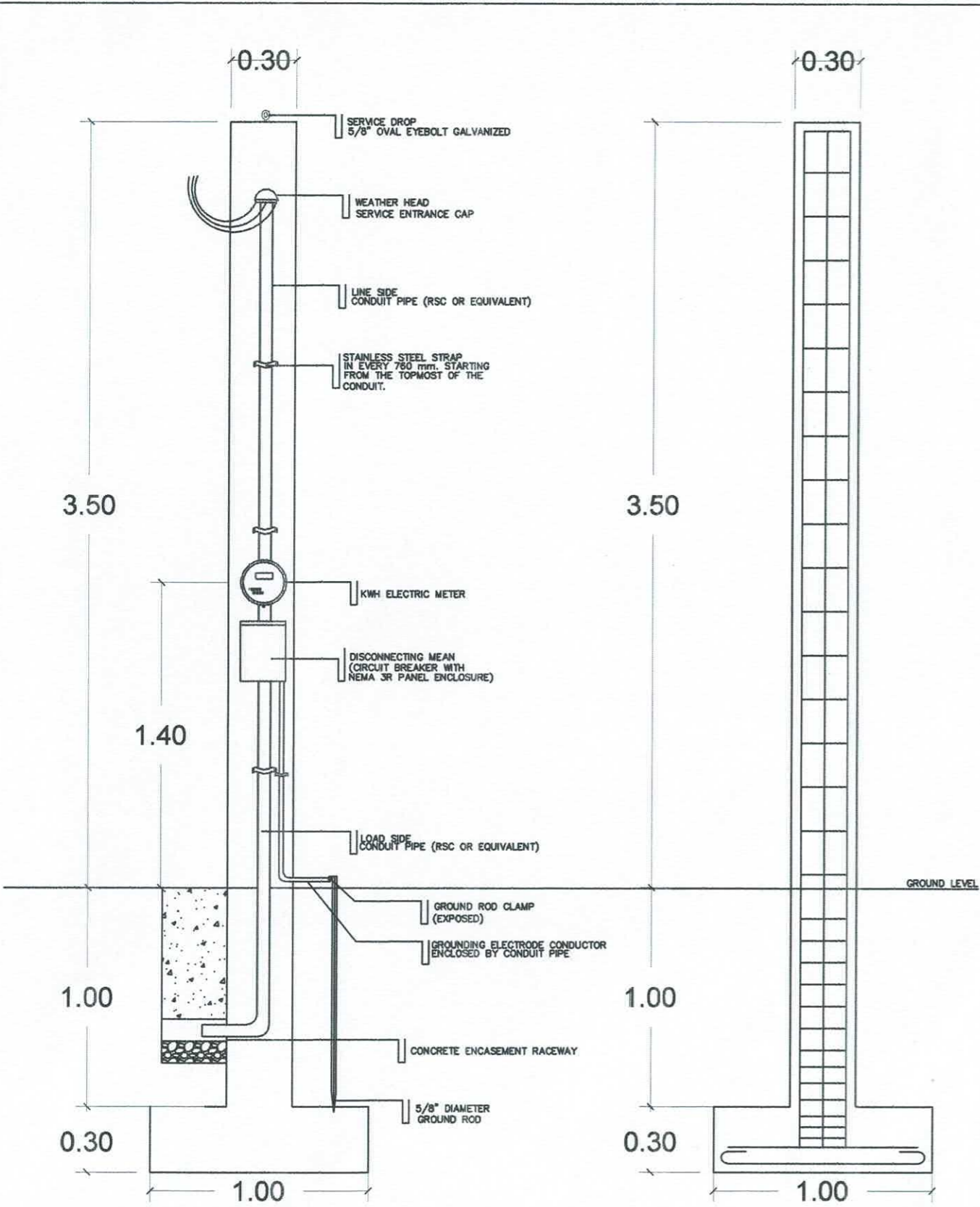
	CONCRETE POLE
	STEEL POST, SCHEDULE 40, 4" WITH PEDESTAL
	230 V SECONDARY WIRE 3 LINE WIRE + GROUND WIRE
	PANEL BOARD
	DISTRIBUTION TRANSFORMER
	SERVICE ENTRANCE CONCRETE PEDESTAL
	CONCRETE ENCASEMENT CONDUIT RACEWAY
	13.8 kV PRIMARY WIRE 3 LINE WIRE
	CONSTRUCTION POINTS

CONSTRUCTION POINTS

- CP 1.**
SUPPLY AND INSTALL -
1-13.5m Concrete pole, Class 3A, complete with pole dressing, pole grounding and accessories.
3-50 kVA, 13.8kV/230V Distribution Transformers, accessories and support brackets. Include tapping to existing primary lines, energization, testing and commissioning.
- CP 2.**
SUPPLY AND INSTALL-
NEW CONCRETE PEDESTAL WITH CONDUIT PIPES, COPPER CONDUCTOR WIRES AND SECONDARY ACCESSORIES (SEE E-7 FOR DETAILS).
- CP 3.**
SUPPLY AND INSTALL-
COPPER CONDUCTOR WIRES INCLUDING MESSENGER WIRE FROM DISTRIBUTION TRANSFORMERS TO MAIN DISTRIBUTION PANEL,
INCLUDING ENERGIZATION AND TAPPING/CONNECTING OF COPPER CONDUCTOR WIRES TO THE SOURCE.
- CP 4.**
SUPPLY AND INSTALL-
SECONDARY STEEL POST WITH PEDESTAL, SECONDARY ACCESSORIES AND ATTACHMENTS (8 SETS, SEE E-9 FOR THE DETAILS OF PEDESTAL).

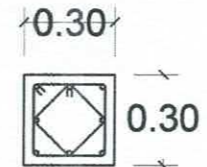
1
E7 **ELECTRICAL SERVICE LINE LAYOUT**
SCALE 1 : 600 MTS.

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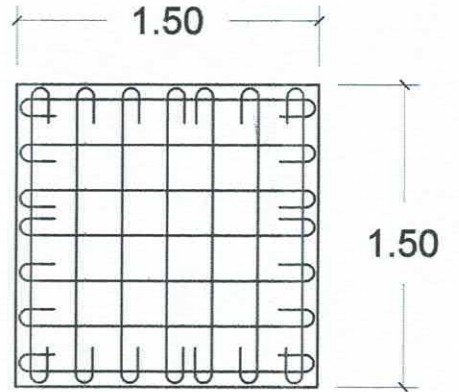


SCHEDULE OF FOOTINGS						
NAME	TYPE	THICKNESS	SIZE (LxW)	DEPTH	REINFORCEMENT	
					BOTTOM	
					ALONG L	ALONG W
F1	ISOLATED	300 MM	1000 x 1000 MM	1300 MM	7-16 MM Ø @ 150 MM	7-16 MM Ø @ 150 MM

COLUMN	DIMENSION	REINFORCEMENT	NO. OF TIES & SPACING
C1	300 MM X 300 MM	8 - 16mm Ø R.S.B.	3 SET OF 10mm Ø TIES @ 2-50mm, 4-75mm, 6-100mm, REST @ 200mm O.C.



12 - 16mm Ø R.S.B.
 3 SET OF 10mm Ø TIES
 @ 2-50mm, 4-75mm,
 6-100mm, REST @ 200mm O.C.

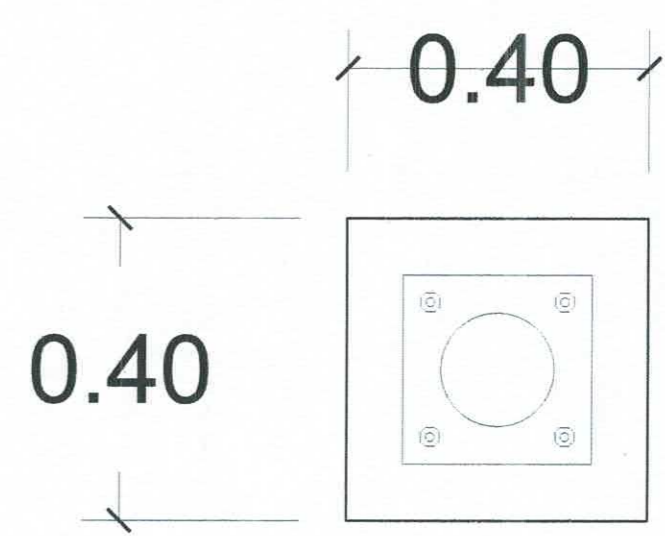
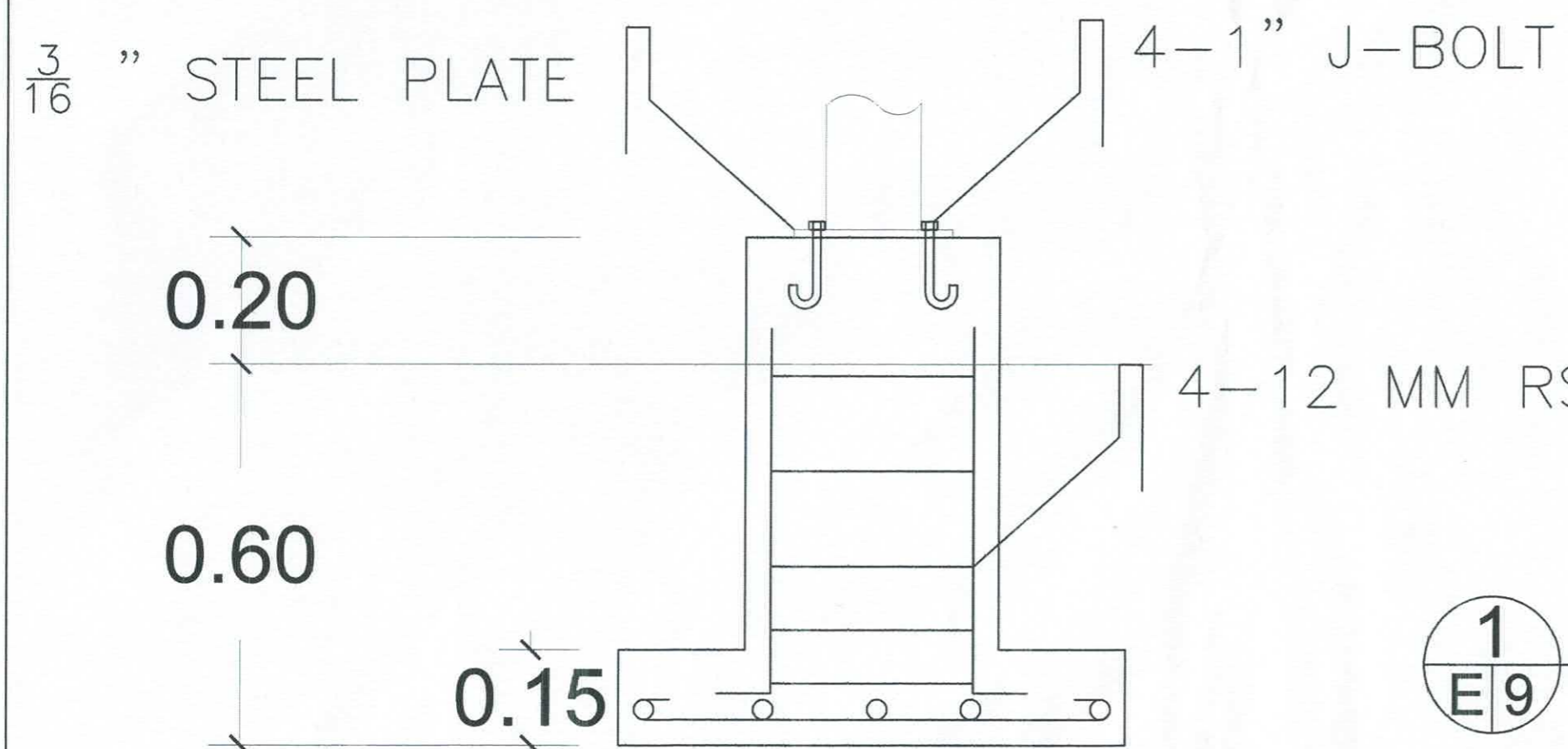
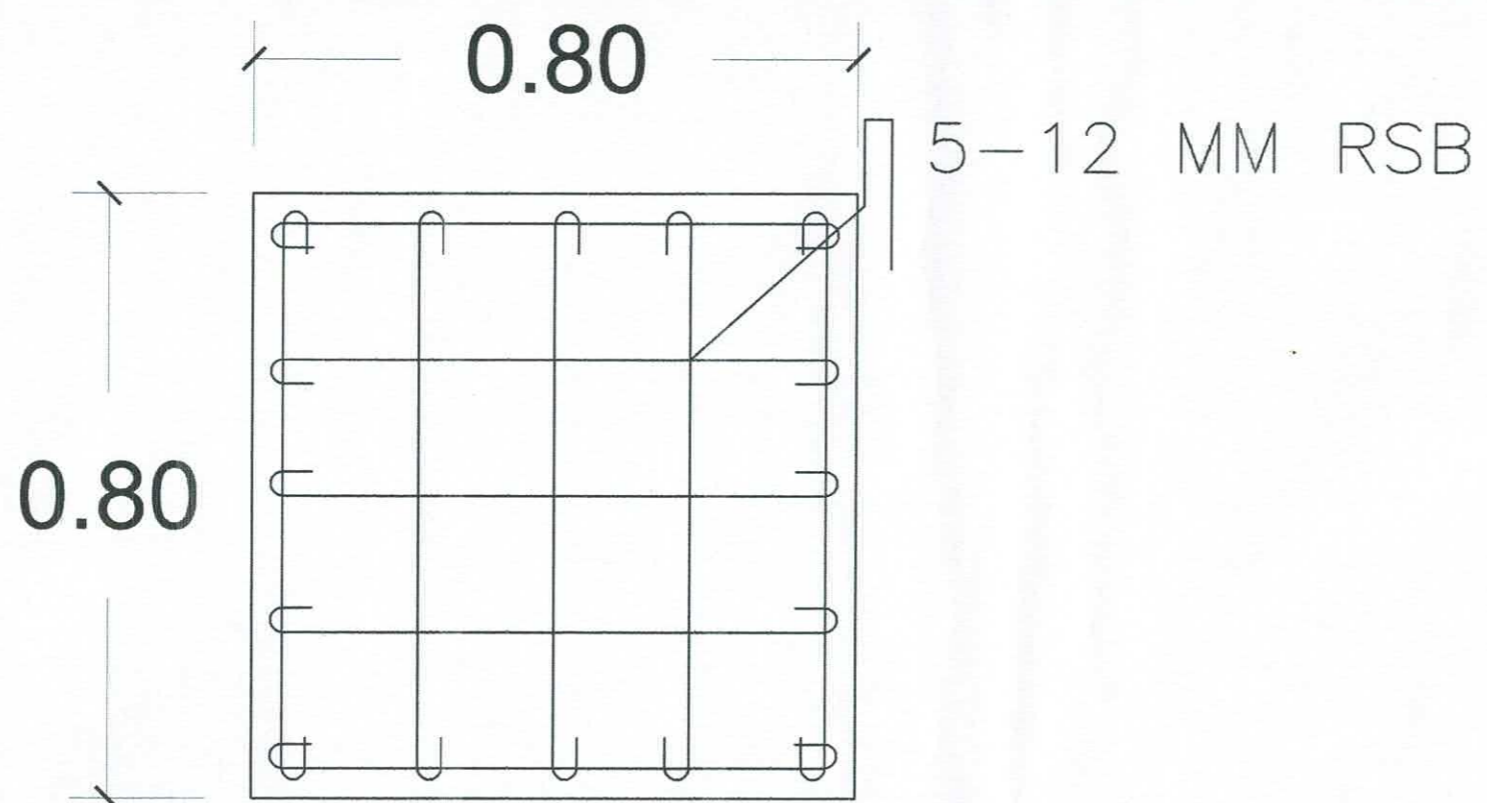


7-16 MM Ø
 @ 150 MM

1
E8 SCALE 1 : 25 MTS.

ELECTRICAL SERVICE ENTRANCE CONCRETE PEDESTAL DETAILS

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
	R. J. R. SANCHEZ PDU <i>[Signature]</i>	M. T. BONO DIRECTOR BRITE CENTER <i>[Signature]</i>	R. P. PEÑA PROF. ELEC. ENGINEER <i>[Signature]</i>	S. B. BAYOT JR. HEAD PDU <i>[Signature]</i>	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE <i>[Signature]</i>	A. G. MAGCAWAS VPPD CV/SU <i>[Signature]</i>	J. X. B. NEPOMUCENO VPASS CVSU <i>[Signature]</i>	H. D. ROBLES PRES CVSU <i>[Signature]</i>	CONSTRUCTION OF TWO STOREY BRITE CENTER (REVISED) CAVITE STATE UNIVERSITY MAIN CAMPUS



1 STEEL POST PEDESTAL DETAILS
 E9 SCALE 1:10

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	R. J. R. SANCHEZ VPD	M. T. BONO DIRECTOR BRITE CENTER	R. P. PENA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	A. G. MAGCAWAS VPD CIVSU	J. X. B. NEPOMUCENO VPASS CIVSU	H. D. ROBLES PRES. CIVSU	CONSTRUCTION OF TWO STOREY BRITE CENTER (REVISED) CAVITE STATE UNIVERSITY MAIN CAMPUS



2-18W LED TUBE LIGHT WITH DIFFUSER,
4 FT. LENGTH (FL)

1
E/10 SCALE

NTS



1-18W LED TUBE LIGHT WITH DIFFUSER,
4 FT. LENGTH (FL)

2
E/10 SCALE

NTS



12 WATTS LED DOWNLIGHT WITH 6"
SURFACE TYPE ROUND CASING

3
E/10 SCALE

NTS



EMERGENCY LIGHT TWIN HEAD

4
E/10 SCALE

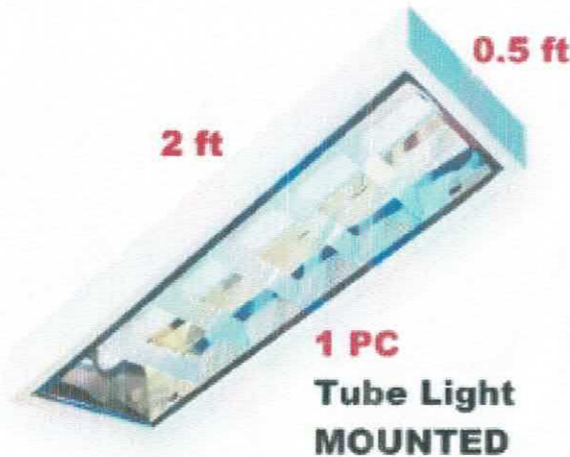
NTS



100W, LED HIGH BAY (UFO SERIES)

5
E/10 SCALE

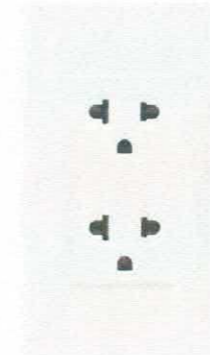
NTS



1-9W LED TUBE LIGHT WITH DIFFUSER,
2 FT. LENGTH (FL)

6
E/10 SCALE

NTS



TWO-GANG CONVENIENCE OUTLET
UNIVERSAL TYPE WITH GROUND

7
E/10 SCALE

NTS

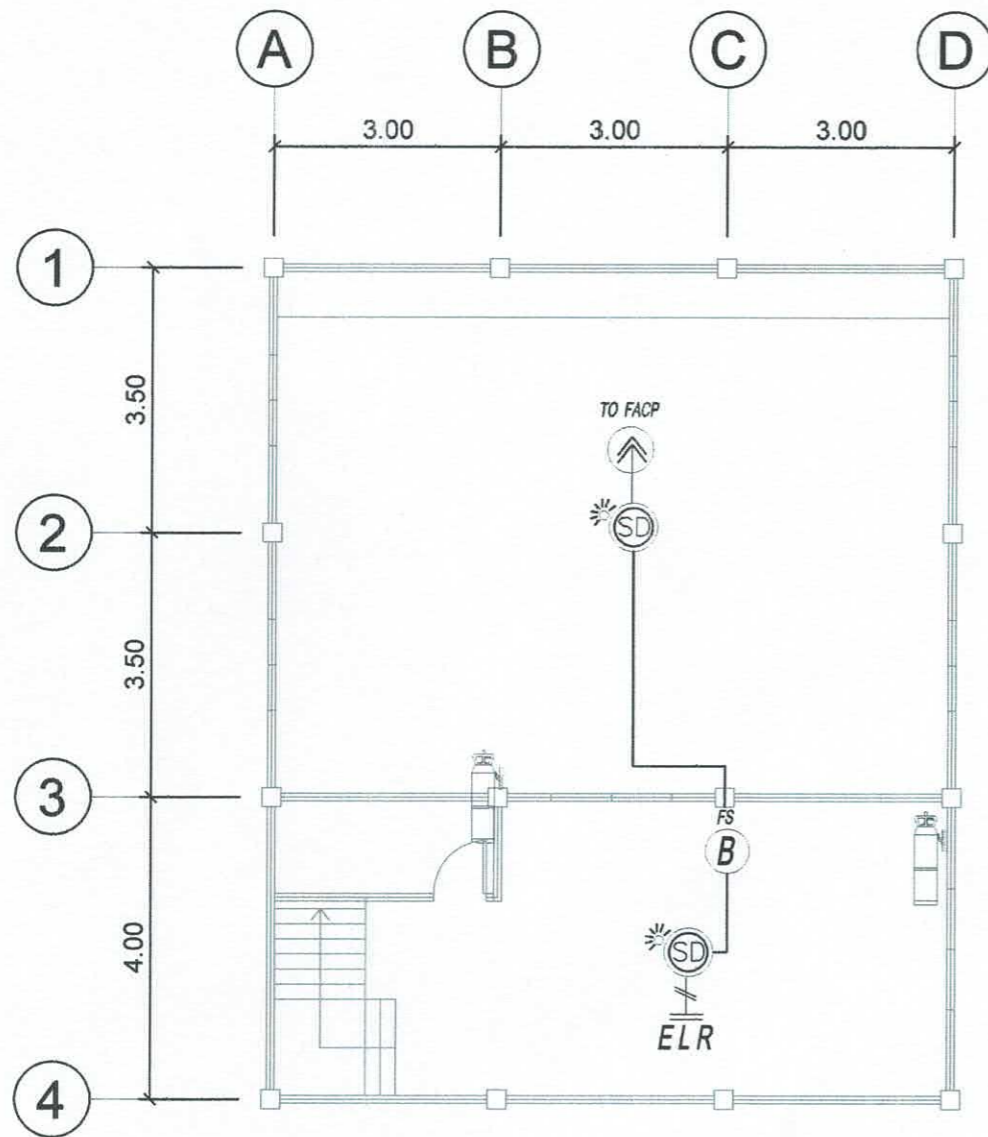


CIRCUIT BREAKER WITH
NEMA 3R METAL ENCLOSURE

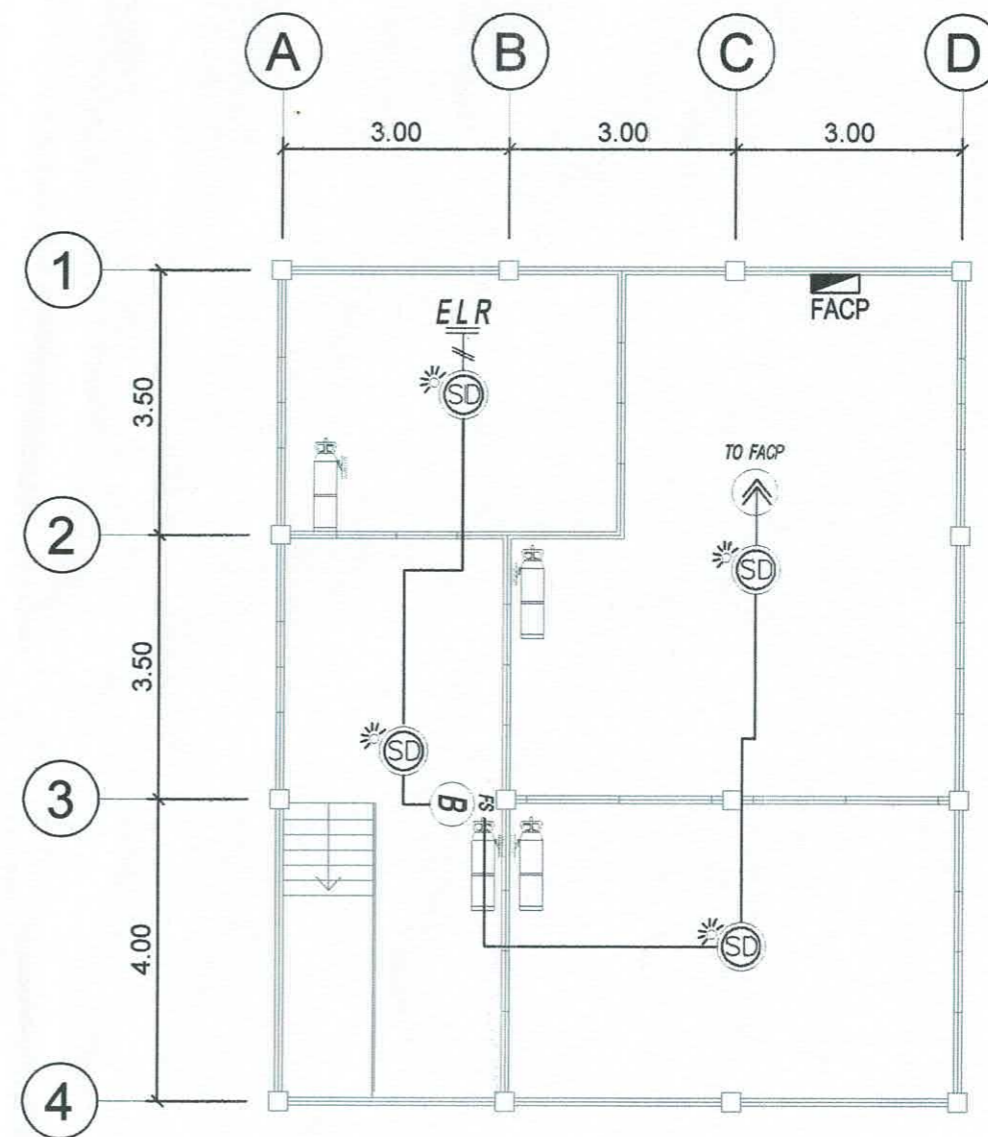
8
E/10 SCALE

NTS

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1
GROUND FLOOR
FIRE DETECTION ALARM SYSTEM
EC 1 SCALE 1 : 100 MTS.



2
SECOND FLOOR
FIRE DETECTION ALARM SYSTEM
EC 1 SCALE 1 : 100 MTS.

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GENERAL NOTES AND SPECIFICATIONS:

FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE TYPE WITH CLASS A WIRING FOR RISER.

THE COMPLETE FIRE ALARM SYSTEM SHALL BE FURNISHED/INSTALLED BY FIRE ALARM CONTRACTOR COMPLETE SYSTEM FOR OPERATION INCLUDING EQUIPMENT AND WIRINGS.

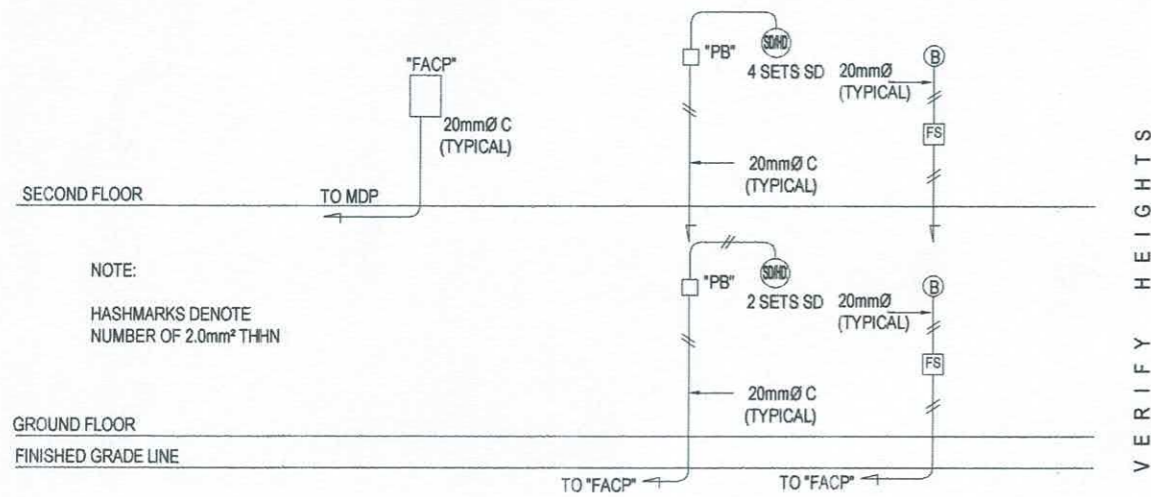
- a. SMOKE DETECTION/HEAT DETECTOR
- b. FIRE ALARM MANUAL STATION
- c. FIRE ALARM CONTROL PANEL (ADDRESSABLE TYPE)
- d. FIRE ALARM BELL

THE FIRE ALARM RISER DIAGRAM CAN BE MODIFY BY CONTRACTOR/SUPPLIER TO SUIT WITH THE SUPPLIED EQUIPMENT. ADDITIONAL SMOKE DETECTOR SHALL BE PROVIDED BY TENANT WHICH WILL INCLUDE WIRING AND CONDUIT FOR ADDITIONAL ADDRESSABLE CONTROL DEVICES IN THE FDAS CONTROL PANEL. FDAS SUPPLIER/CONTRACTOR SHALL BE PROPERLY COORDINATED IN ANY CHANGES IN THE SMOKE DETECTOR LAYOUT AS WELL AS WIRING CONNECTIONS.

WIRING SHALL BE UNSHIELDED 2.0mm² THHN FDAS CABLE IN 20mm ϕ PVC PIPE.

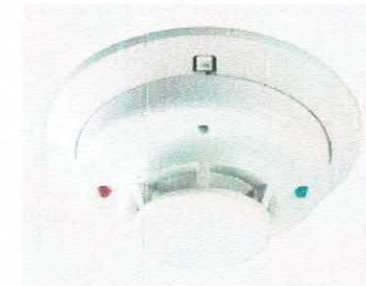
LEGEND AND SYMBOLS:

SYMBOL	DESCRIPTIONS
	SMOKE DETECTOR
	HEAT DETECTOR
	FIRE ALARM MANUAL STATION
	FIRE ALARM BELL OUTLET
	HOMERUN TO FACP
	END OF LINE RESISTOR - ELR
	FIRE ALARM CONTROL PANEL
	2-2.0 mm ² , THHN 20 mm ϕ C.



NOTE:
HASHMARKS DENOTE
NUMBER OF 2.0mm² THHN

VERIFY HEIGHTS



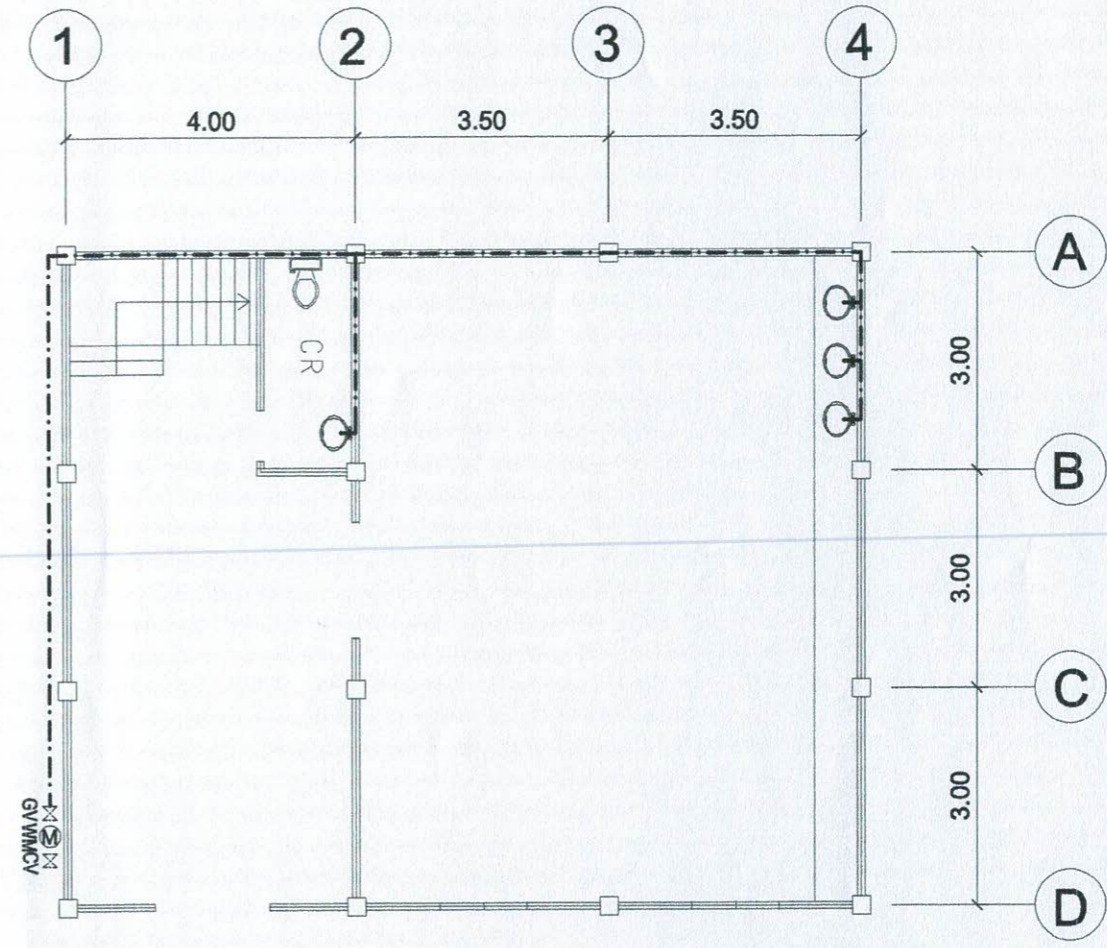
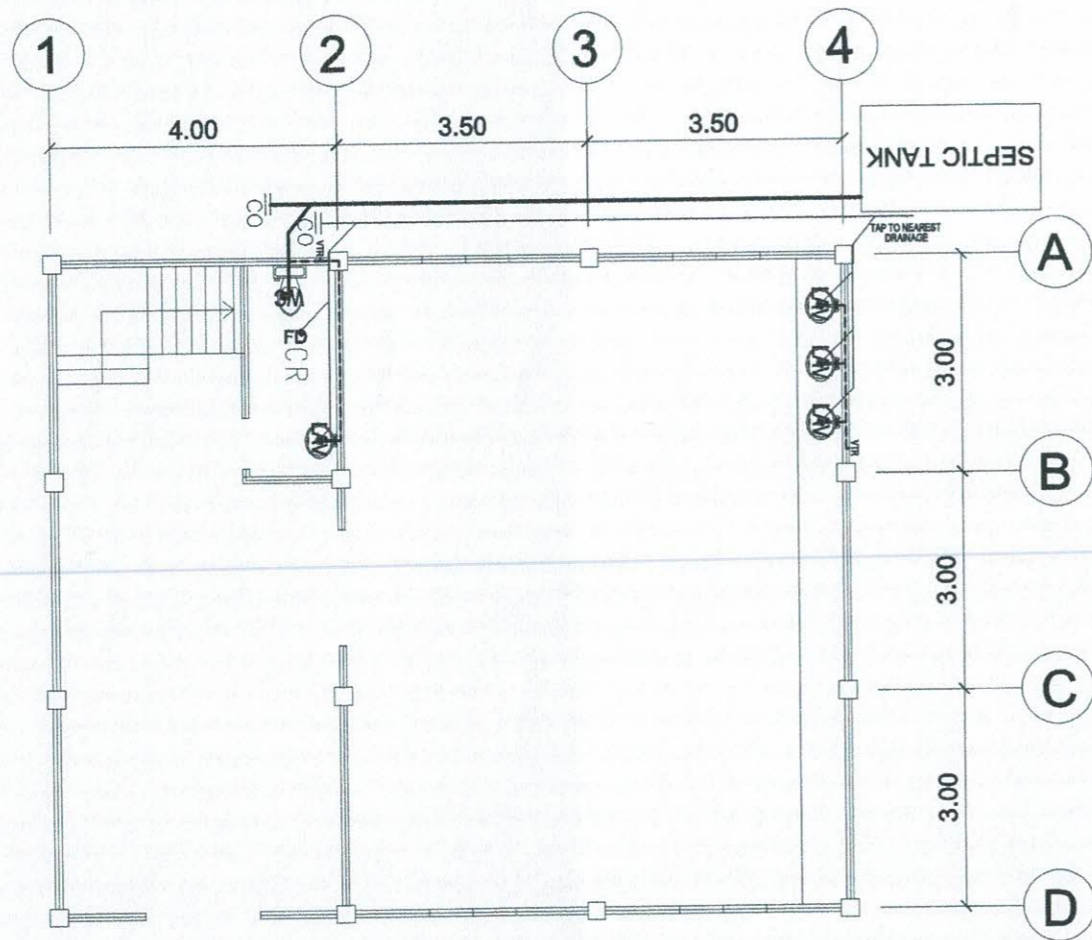
1 RISER DIAGRAM (FDAS)
EC 2 SCALE NTS

2 FIRE ALARM MANUAL STATION (FS)
EC 2 SCALE NTS

3 SMOKE DETECTOR
EC 2 SCALE NTS


4 FIRE ALARM BELL
EC 2 SCALE NTS

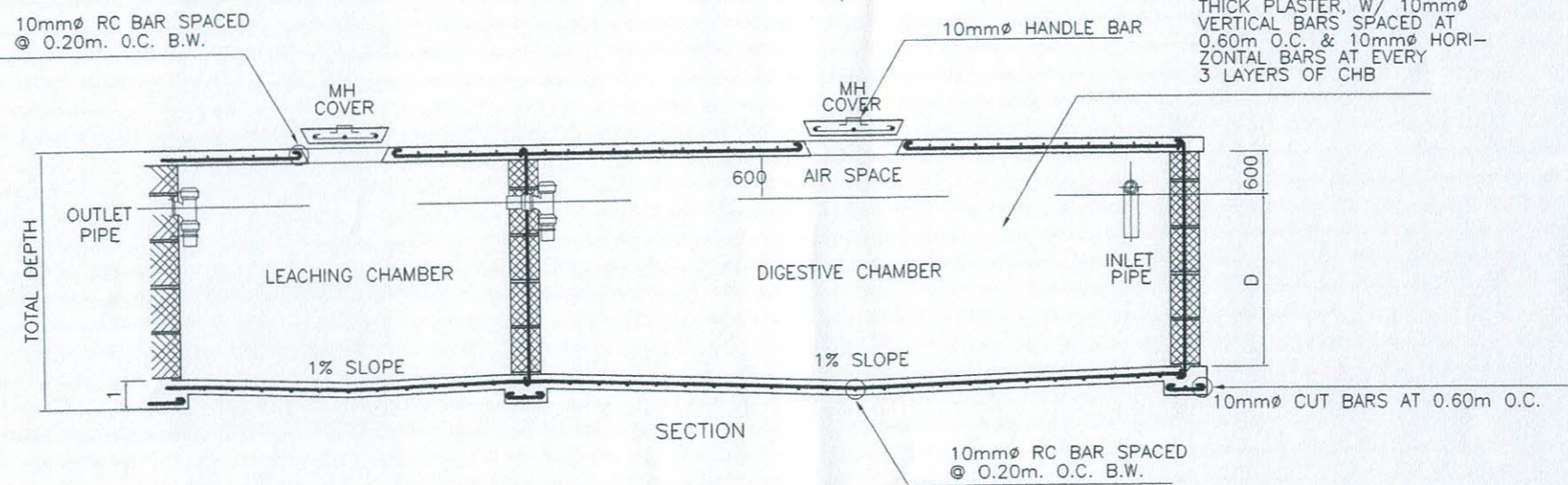
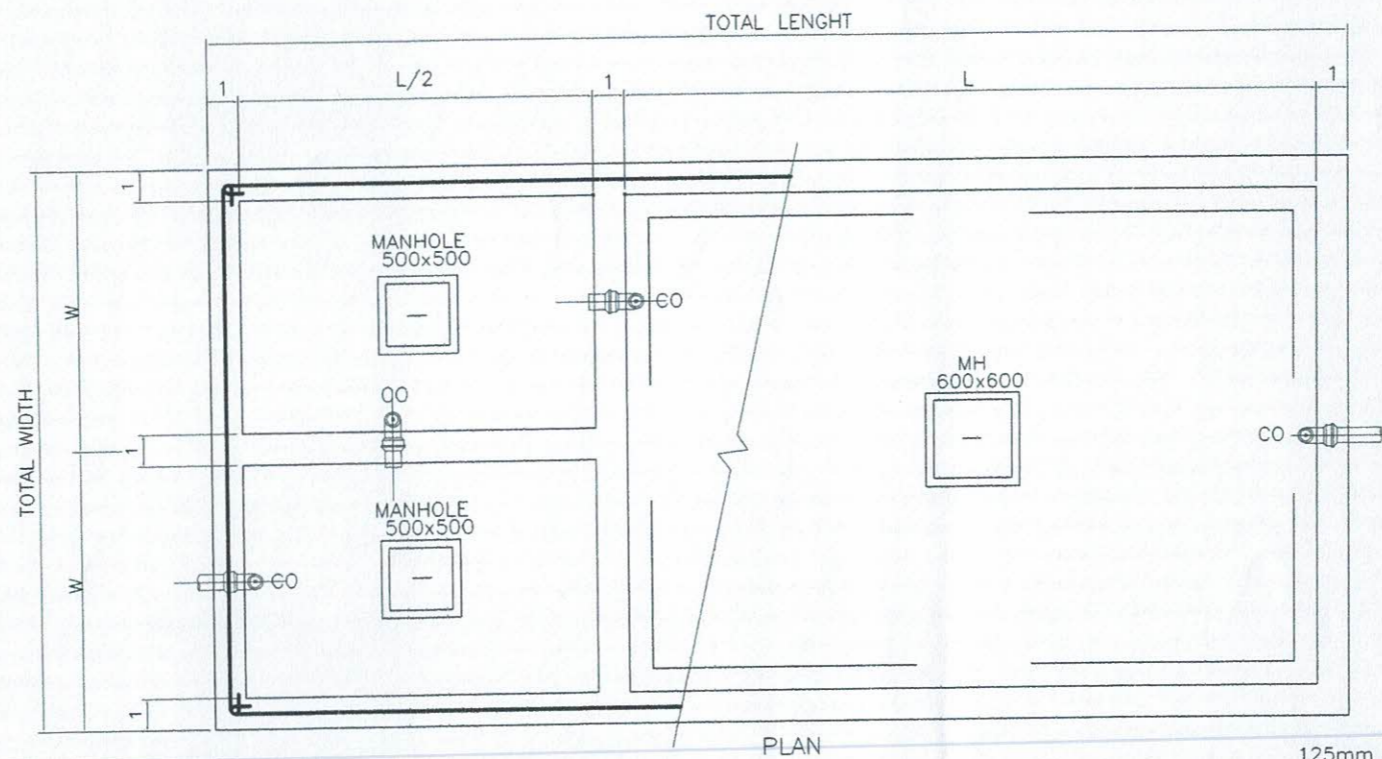
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1
A 1
GROUND FLOOR SEWER LINE LAYOUT
SCALE
1 : 100 MTS.

1
A 1
GROUND FLOOR WATER LINE LAYOUT
SCALE
1 : 100 MTS.

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SEPTIC TANK DIMENSION					
LENGTH (L)	L/2	TOTAL LENGTH	WIDTH (W)	TOTAL WIDTH	DEPTH (D)
1600 MM	800 MM	2400 MM	700 MM	1400 MM	1700 MM

DETAILS OF SEPTIC TANK
SCALE NTS

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 R. PASCUAL PDU OVPPD	 M.T. BONO DIRECTOR BRITE CENTER		 S. B. BAYOT JR. HEAD PDU	 Q. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	 M. J. D. TEPORA VPPD CVSU	 H. D. ROBLES PRES CVSU	CONSTRUCTION OF TWO STOREY BRITE CENTER CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY P - 2