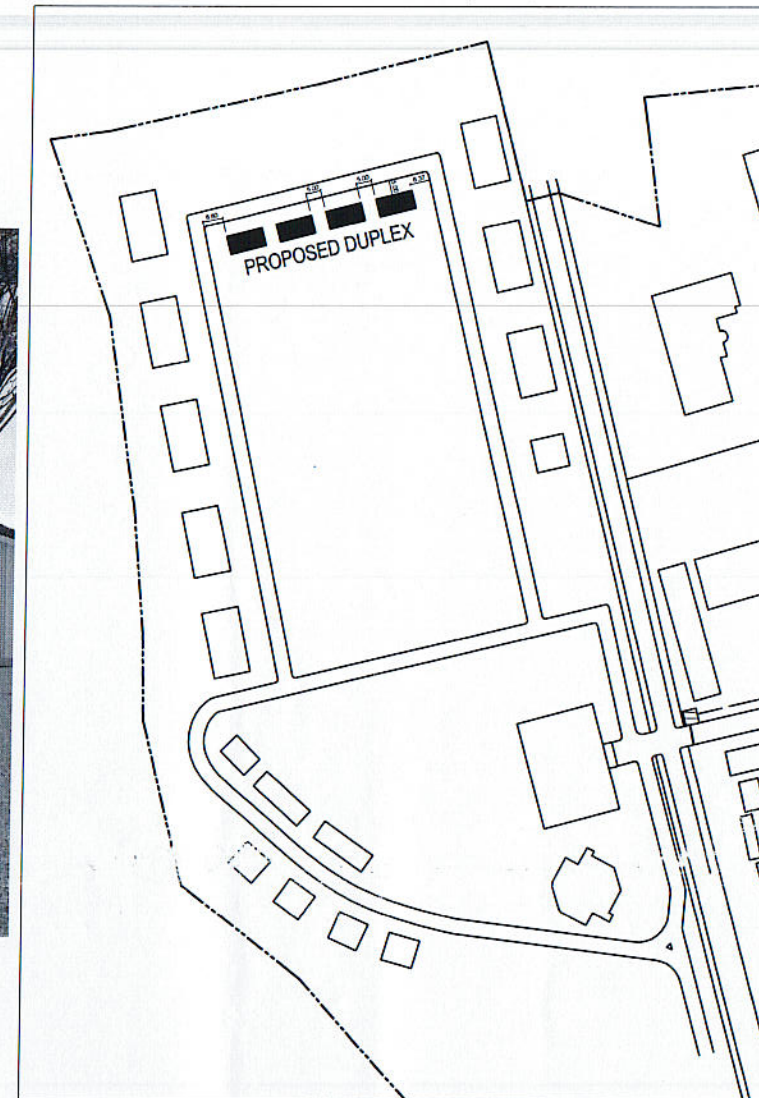




PERSPECTIVE



LOCATION MAP

ARCHITECTURAL

- A-1 - PERSPECTIVE
- SITE DEVELOPMENT PLAN
- A-2 - GROUND FLOOR PLAN
- FRONT ELEVATION
- RIGHT SIDE ELEVATION
- LEFT SIDE ELEVATION
- REAR ELEVATION
- A-3 - SCHEDULE OF DOORS & WINDOWS

STRUCTURAL

- S-1 FOUNDATION PLAN
DETAIL OF COLUMNS & FOOTING
DETAIL OF WALL FOOTING
- S-2 ROOF BEAM PLAN
ROOF FRAMING PLAN
DETAIL SECTION OF ROOF BEAM
- DETAIL OF TRUSS 1
TRUSS DIAGRAM

ELECTRICAL

- E-1 - LIGHTING LAYOUT
- POWER LAYOUT
- E-2 - SCHEDULE OF LOADS
- RISER DIAGRAM
- NOTES & SPECIFICATIONS

PLUMBING

- P-1 - SEWER LINE LAYOUT
- WATER LINE LAYOUT
- DETAIL OF CATCH BASIN
- P-2 - DETAIL OF SEPTIC TANK

DEPARTMENT OF PUBLIC WORKS
TRANSPORTATION & COMMUNICATION

OFFICE OF THE BUILDING OFFICIAL

DISTRICT / CITY / MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

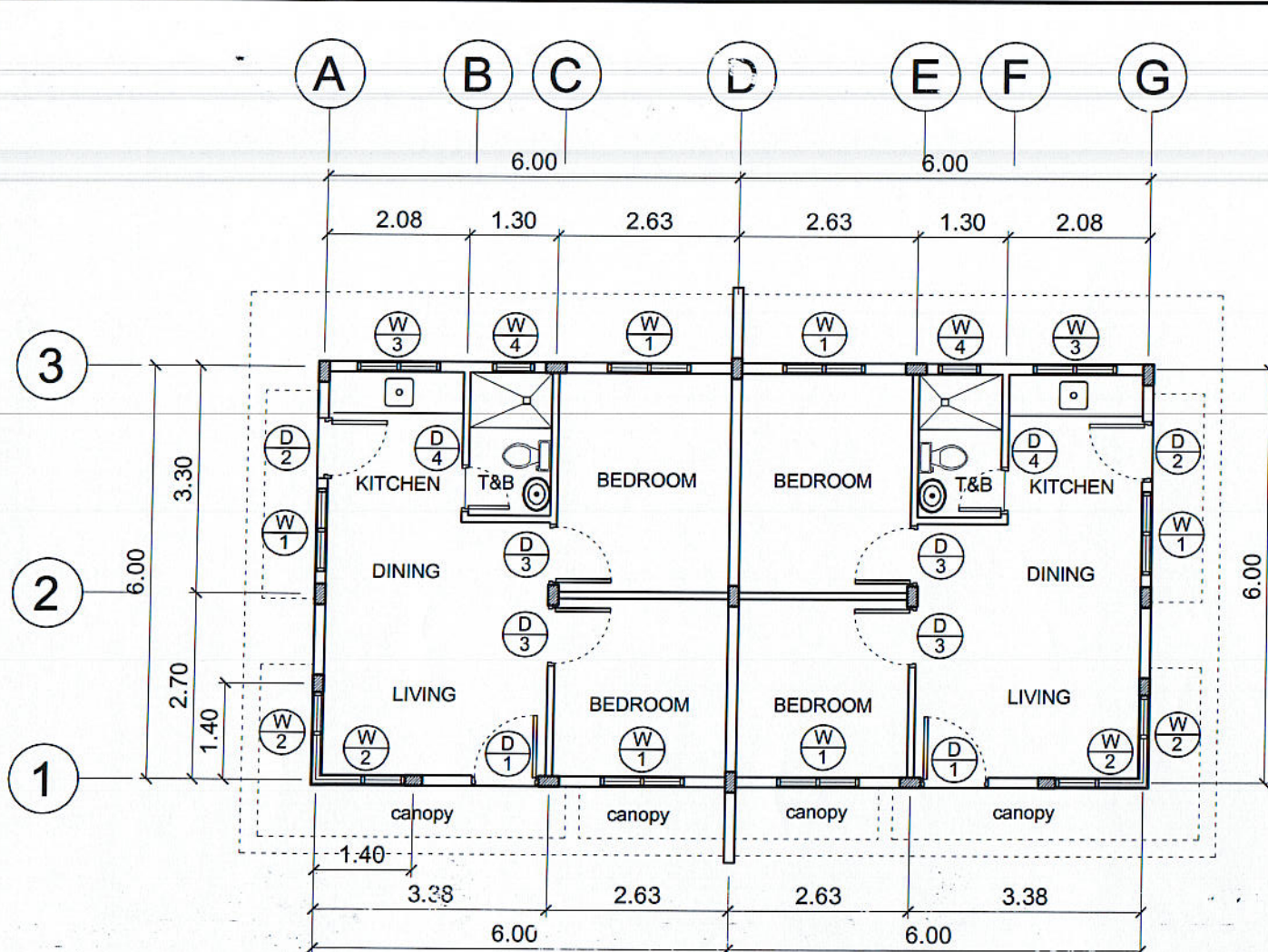
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STRUCTURAL

SANITARY

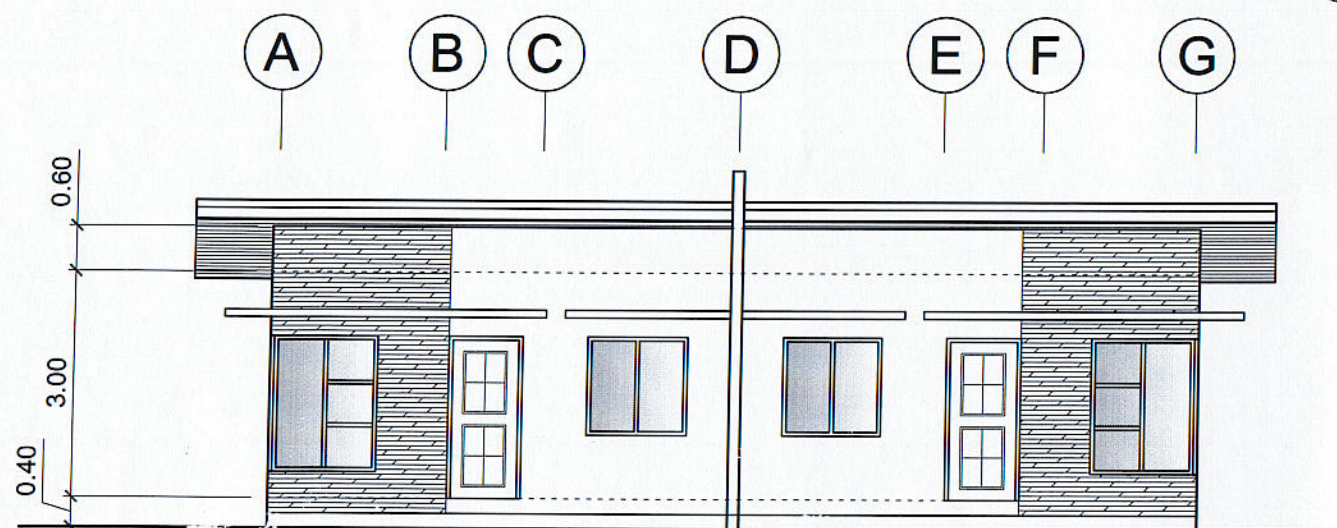
ELECTRICAL

PREPARED BY: E. N. RODEROS JR. PPU	END USER: L. C. ABOGADIE DIRECTOR OBA	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING OFFICE M. M. ESCOBAR VPPD CVSU	REC. APPROVAL: C. A. POLINGA VPASS CVSU	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/ LOCATION: PROPOSED FACULTY HOUSING CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY	SHT NO: A - 1
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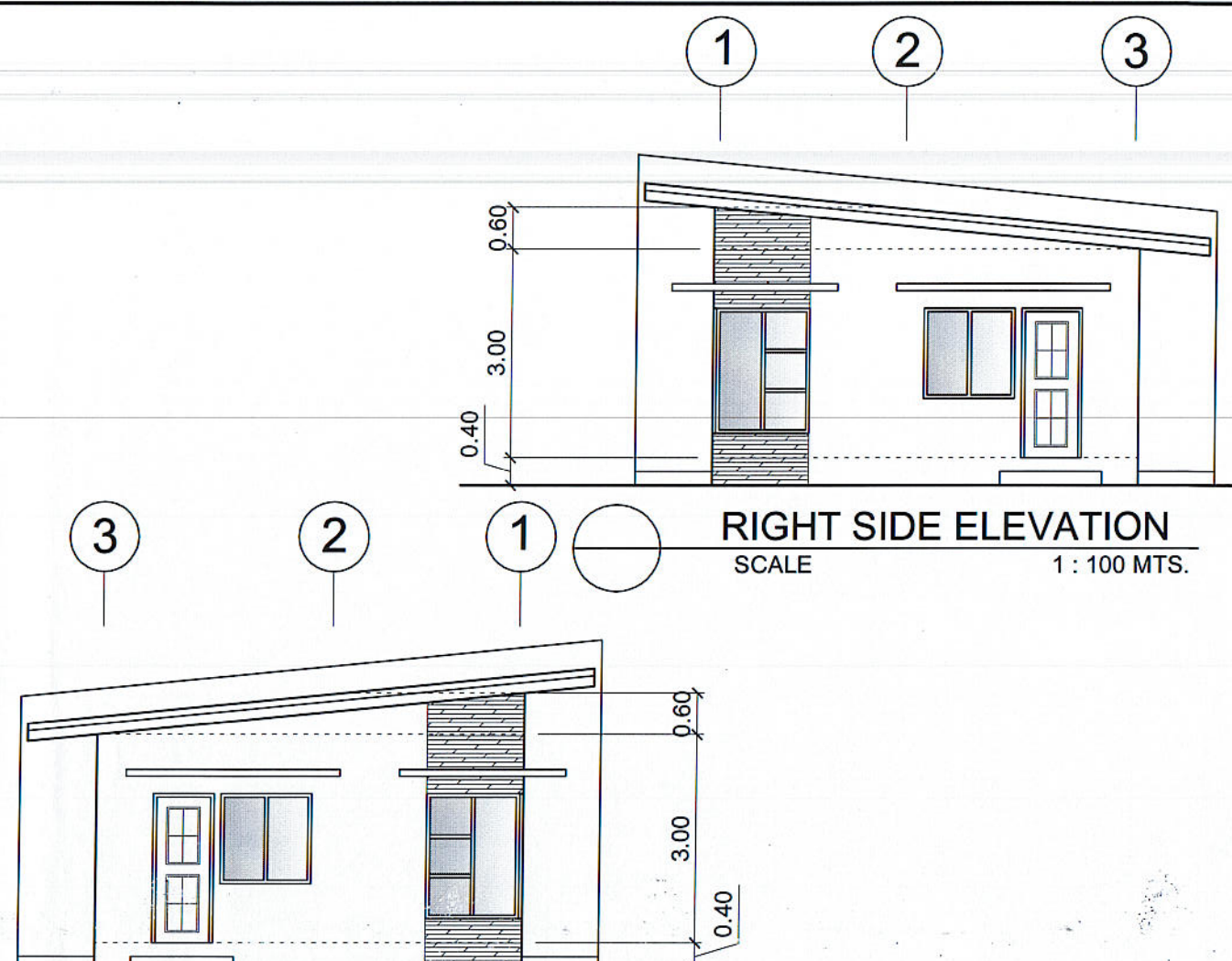
FLOOR PLAN

SCALE 1 : 100 MTS.



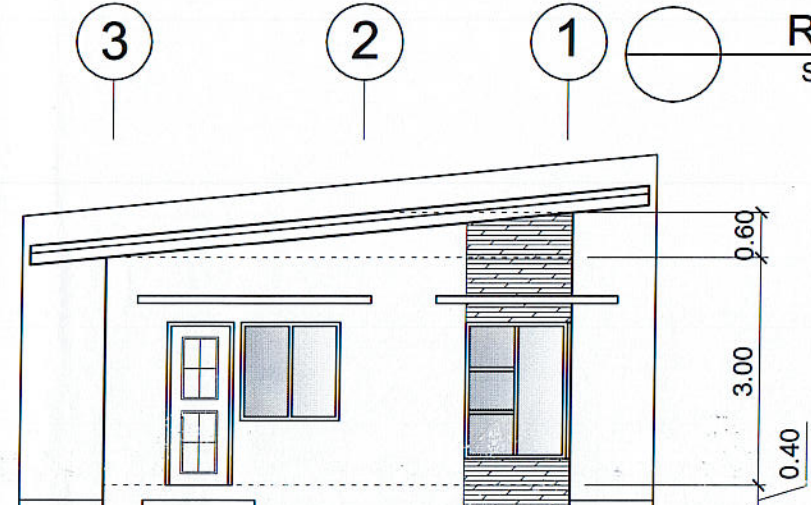
FRONT ELEVATION

SCALE 1 : 100 MTS.



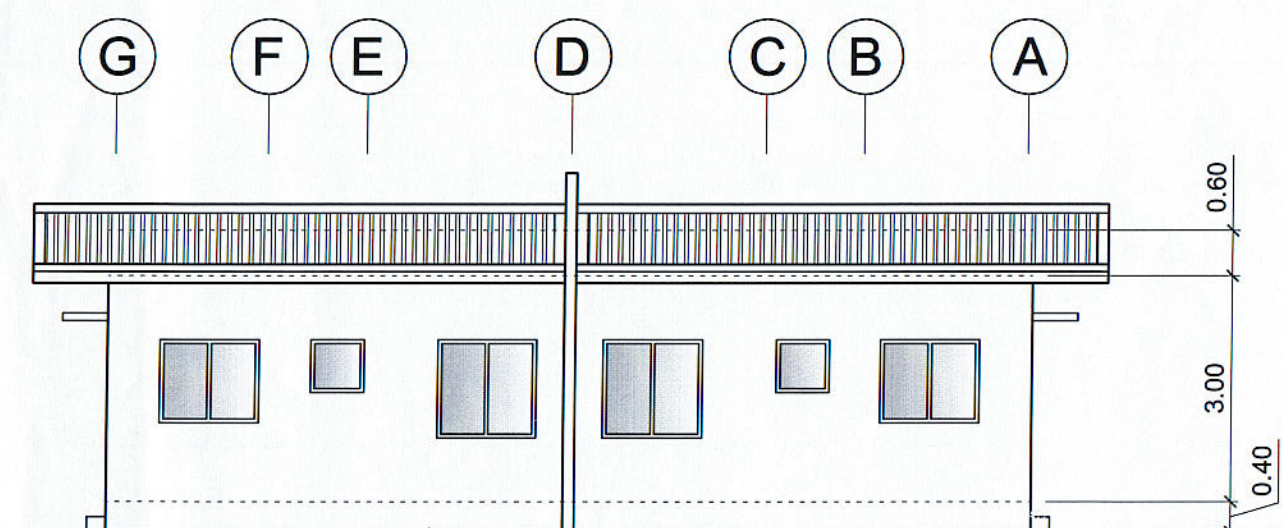
RIGHT SIDE ELEVATION

SCALE 1 : 100 MTS.



LEFT SIDE ELEVATION

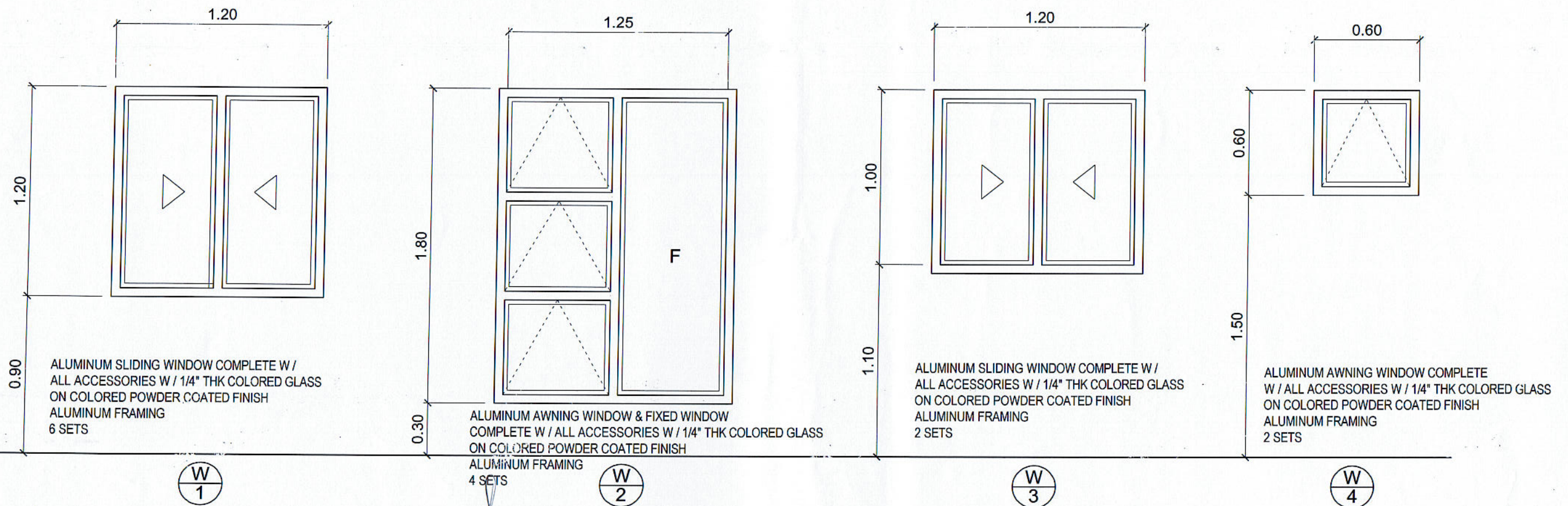
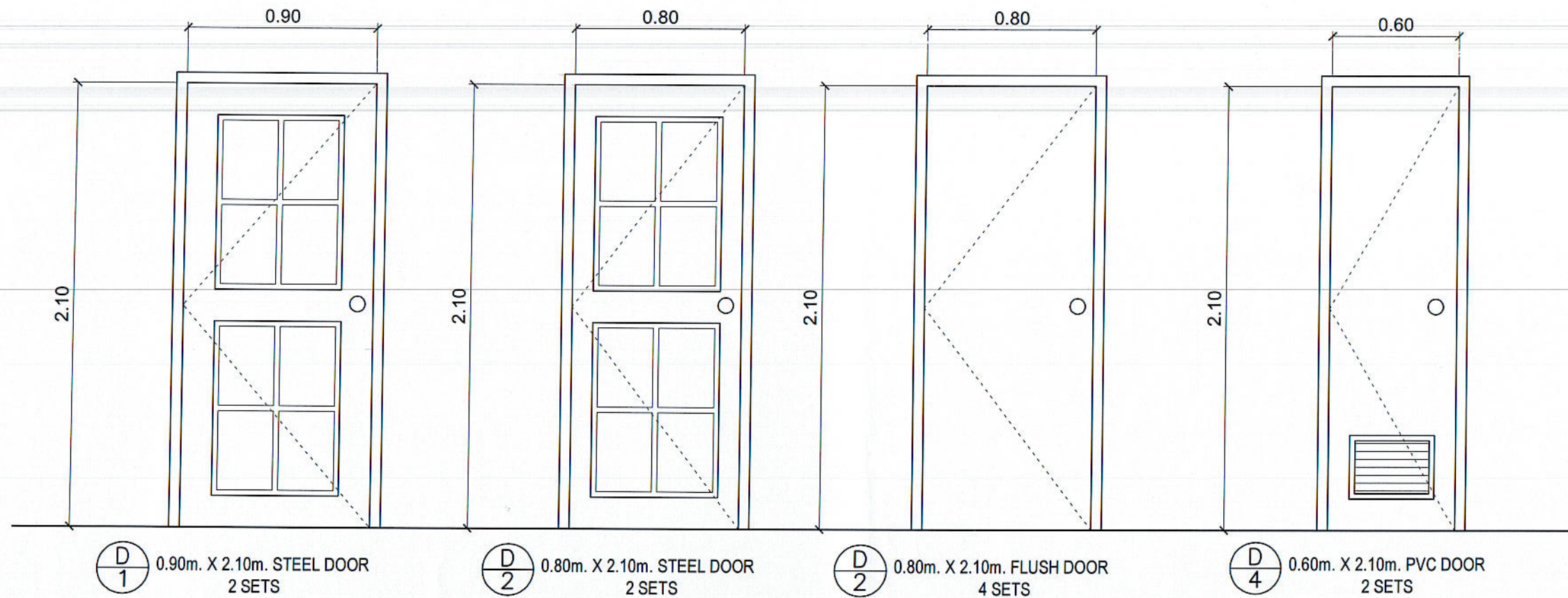
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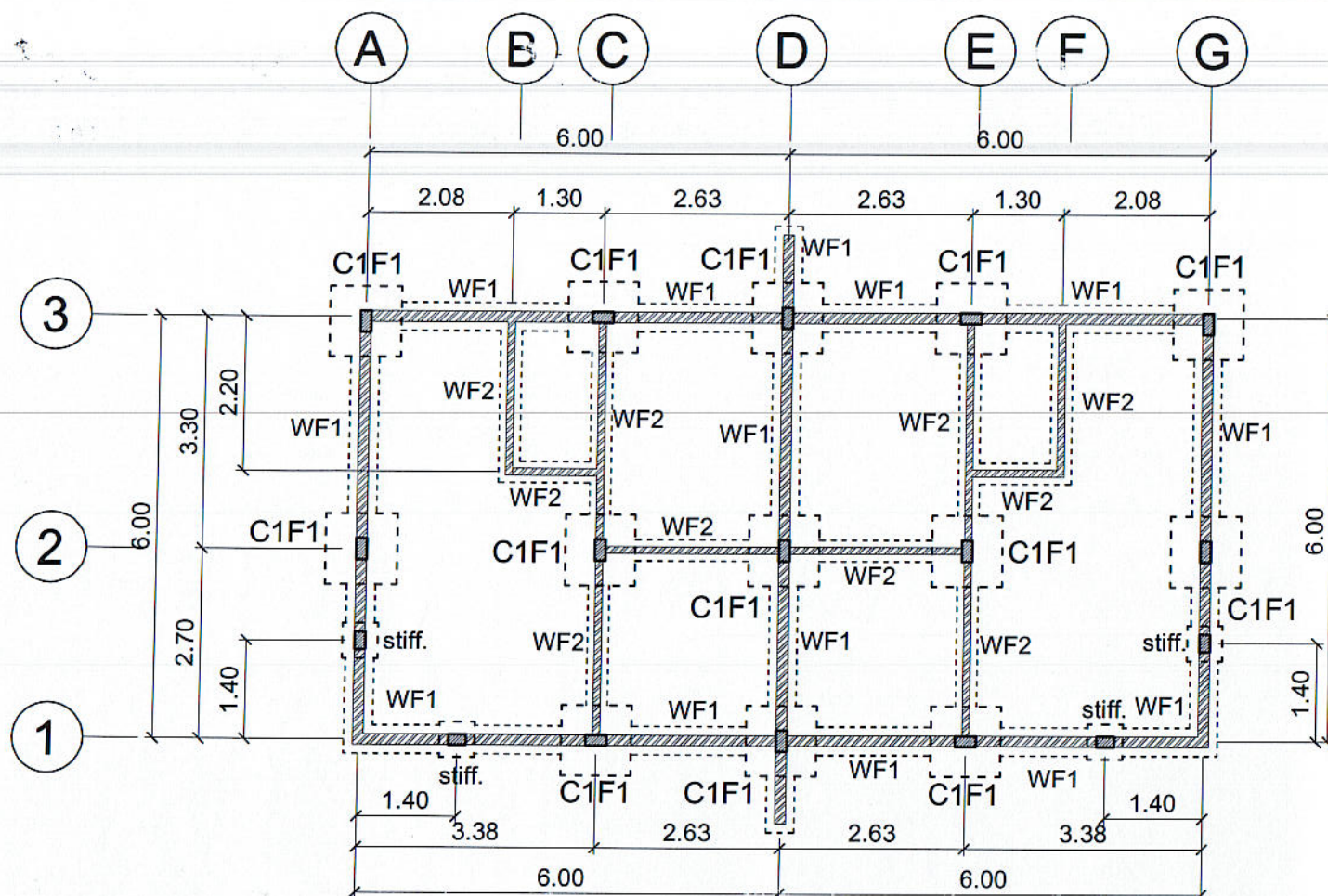
REAR ELEVATION

SCALE 1 : 100 MTS.

PREPARED BY: <i>E. M. RODEROS JR.</i> PPU OVRPD	END USER: <i>L. C. ABOGADIE</i> DIRECTOR OBA	ENDORSED BY: <i>O. S. DELOS REYES</i> DIRECTOR PLANNING OFFICE <i>M. M. ESCOBAR</i> VPPD CVSU	REC. APPROVAL: <i>C. A. POLINGA</i> VPASS CVSU	APPROVED BY: <i>H. D. ROBLES</i> PRES CVSU	PROJECT TITLE/ LOCATION: PROPOSED FACULTY HOUSING CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY	SHT NO: A - 2
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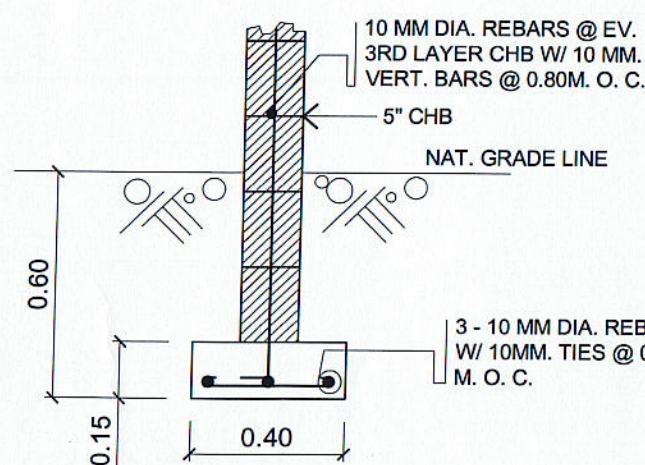


PREPARED BY: E. N. RODEROS JR. PPU	END USER: L. C. ABOGADIE DIRECTOR	ENDORSED BY: O. B. DELLOS REYES DIRECTOR PLANNING OFFICE M. M. ESCOBAR VPD	REC. APPROVAL: C. A. POLINGA VPASS	APPROVED BY: H. D. ROBLES PRES	PROJECT TITLE/ LOCATION: PROPOSED FACULTY HOUSING CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY	SHT NO: A - 3
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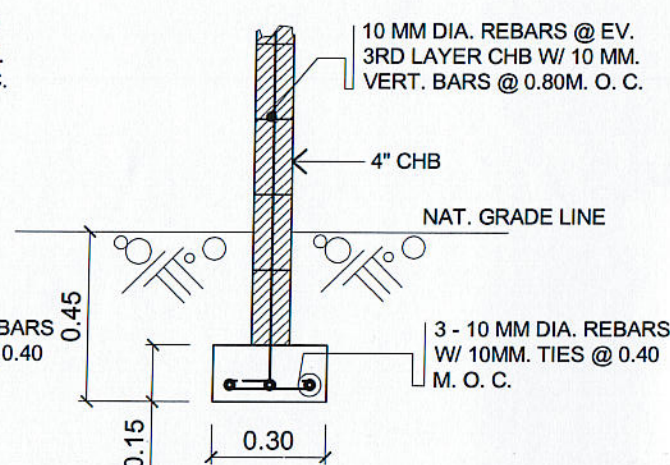


FOUNDATION PLAN

SCALE 1 : 100 MTS.

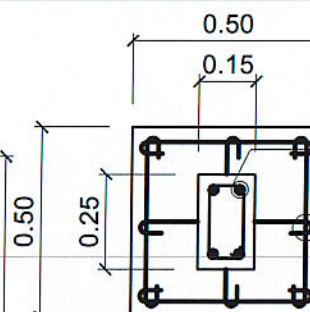


SECTION OF WF 1

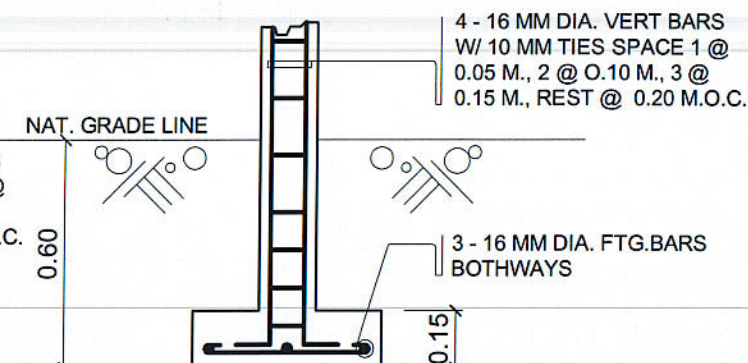


SECTION OF WF 2

DETAIL OF WALL FOOTING
SCALE 1 : 20 MTS.



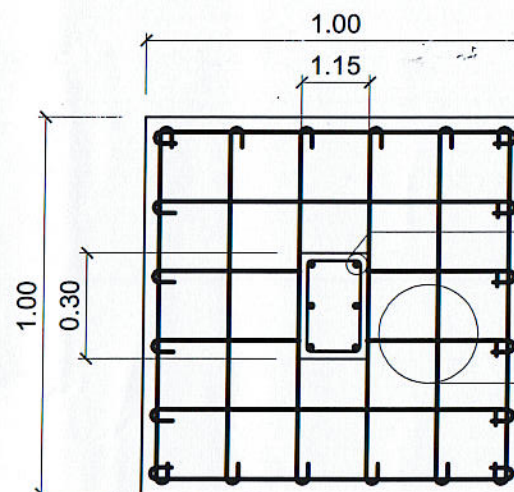
PLAN



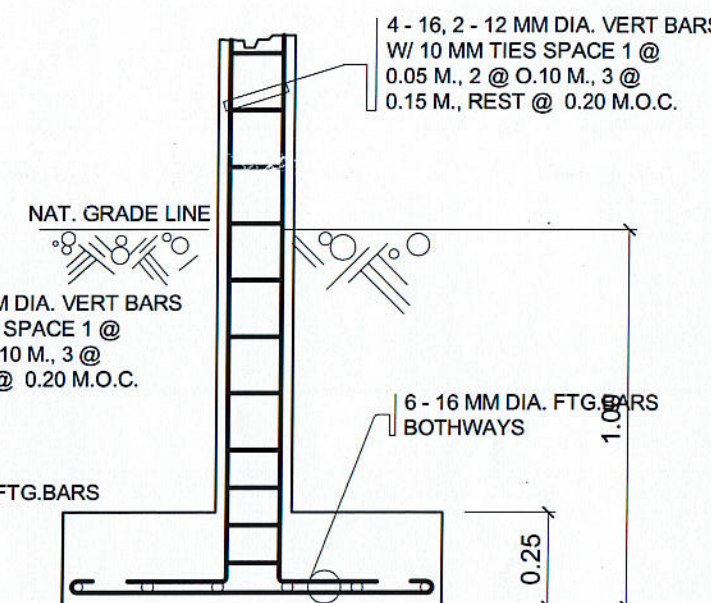
SECTION

DETAIL OF STIFFENER

SCALE 1 : 20 MTS.



PLAN



SECTION

DETAIL OF C1 F1

SCALE 1 : 20 MTS.

PREPARED BY:
E. N. RODEROS JR.
PPU OVPPD

CIVIL ENGR:
L. E. ROCELA
PPU OVPPD

END USER:
C. ABOGADIE
DIRECTOR OBA

ENDORSED BY:
O. B. DELOS REYES
DIRECTOR PLANNING OFFICE
M. M. ESCOBAR
VPASS CVSU

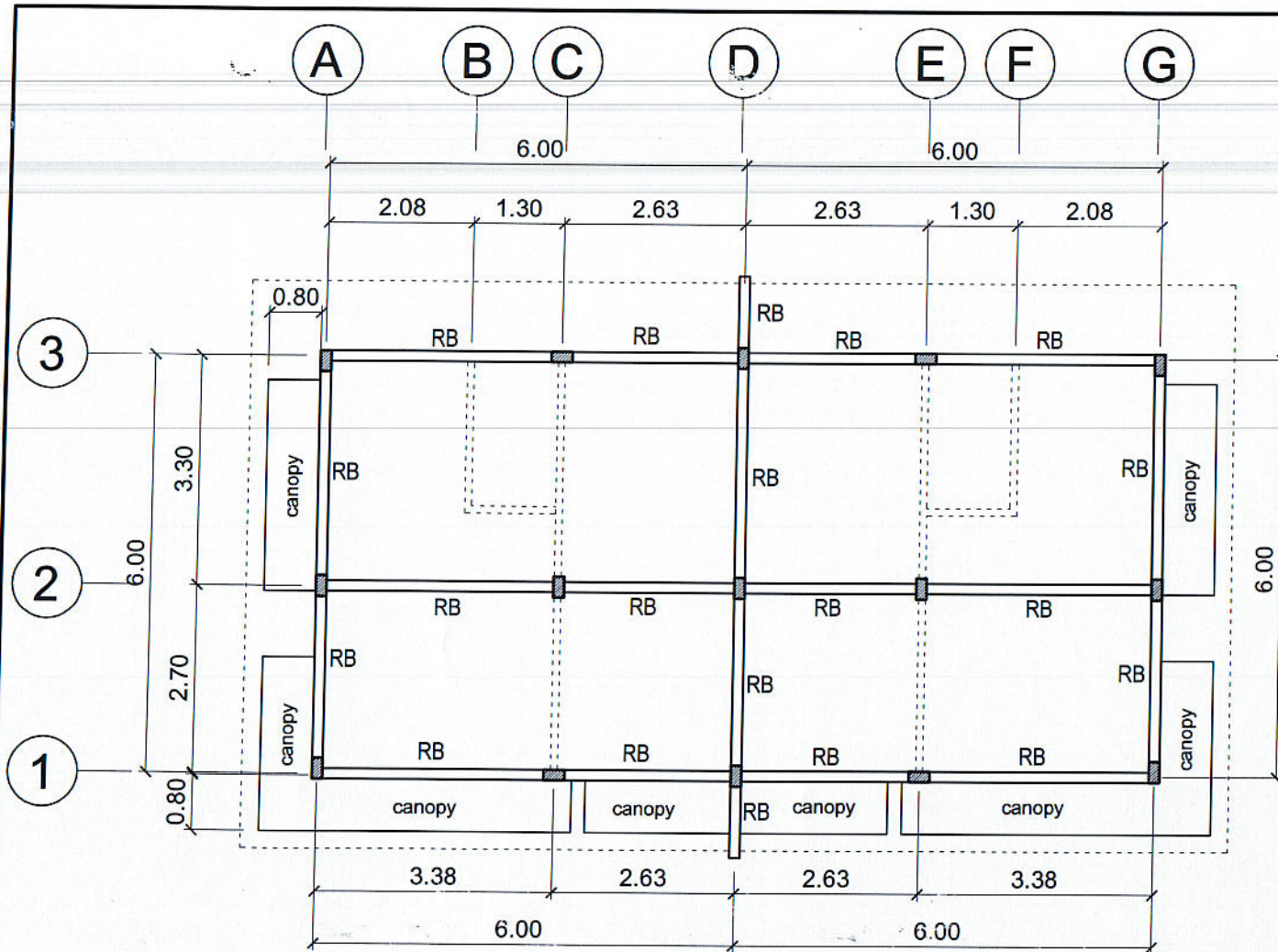
REC. APPROVAL:
C. A. POLINGA
VPASS CVSU

APPROVED BY:
H. D. ROBLES
PRES CVSU

PROJECT TITLE/ LOCATION:
PROPOSED FACULTY HOUSING
CVSU, MAIN CAMPUS

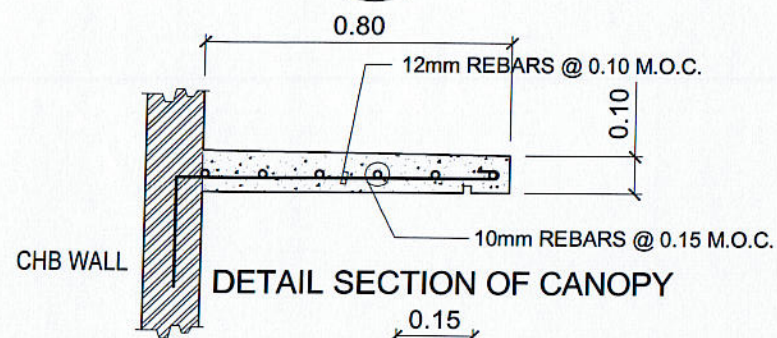
IMPLEMENTING AGENCY:
CAVITE STATE UNIVERSITY

SHT NO:
S - 1

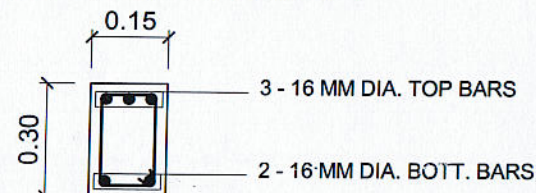


ROOF BEAM PLAN

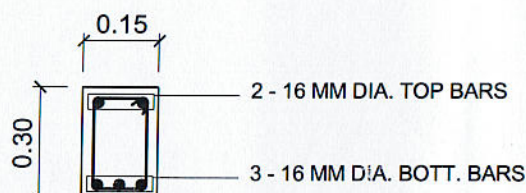
SCALE 1 : 100 MTS.



DETAIL SECTION OF CANOPY



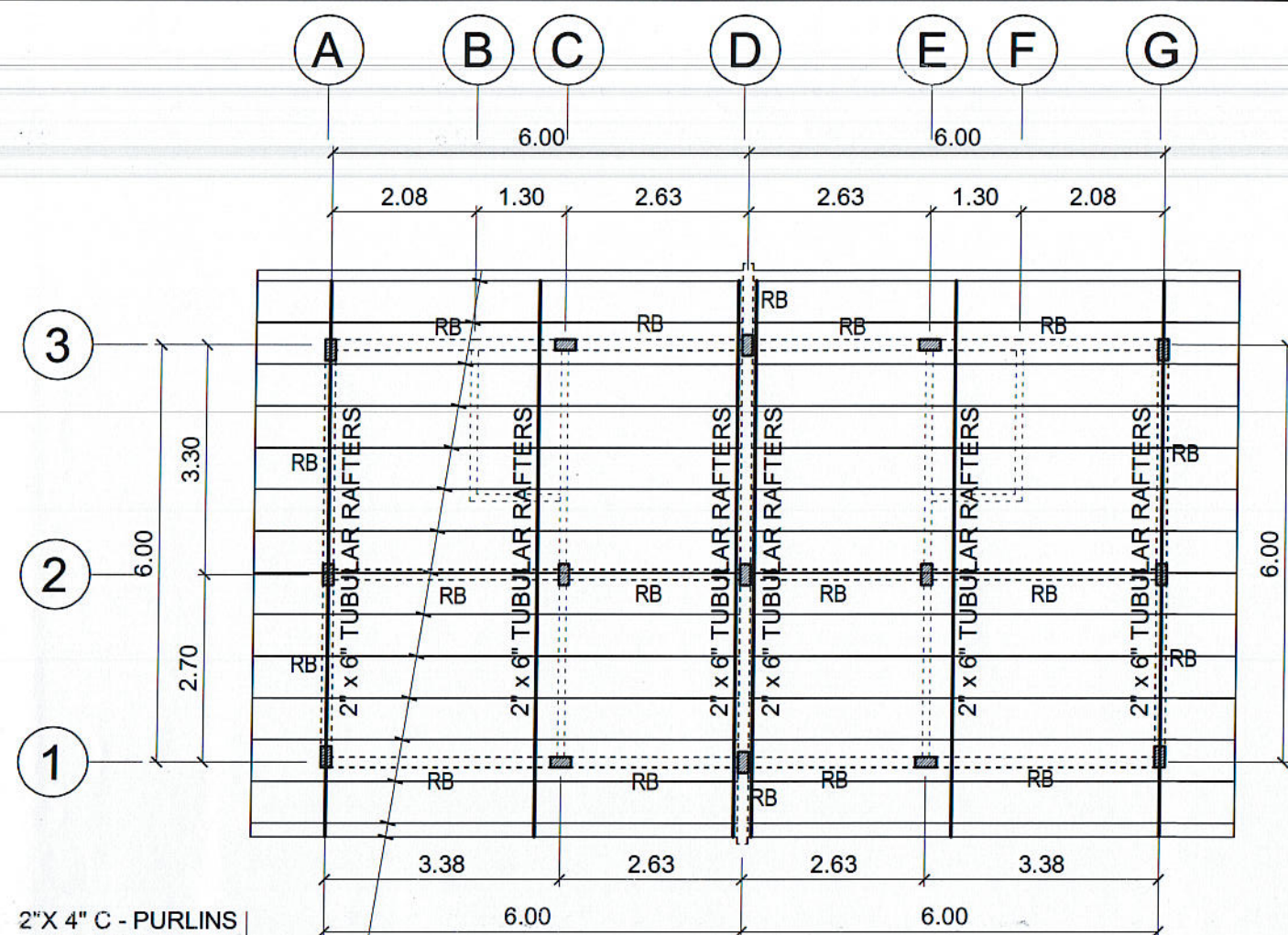
@ NEAR SUPPORT



@ MID - SPAN

DET. SECTION OF ROOF BEAM

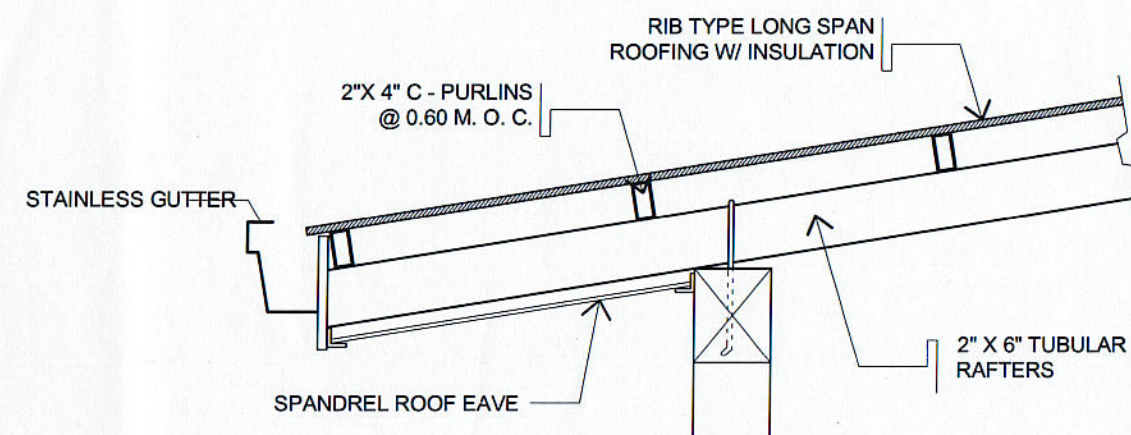
SCALE 1 : 20 MTS.



ROOF FRAMING PLAN

SCALE 1 : 100 MTS.

2"X 4" C - PURLINS
@ 0.60 M. O. C. &
SAG ROD



DETAIL SECTION OF RAFTERS

SCALE 1 : 20 MTS.

PREPARED BY:
E. N. RODEROS JR.
PPU OVPPD

CIVIL ENGR:
E. E. ROCELA
PPU OVPPD

END USER:
L. C. ABOGADIE
DIRECTOR OBA

ENDORSED BY:
O. B. DELOS REYES
DIRECTOR PLANNING OFFICE
M. M. ESCOBAR
VPASS CVSU

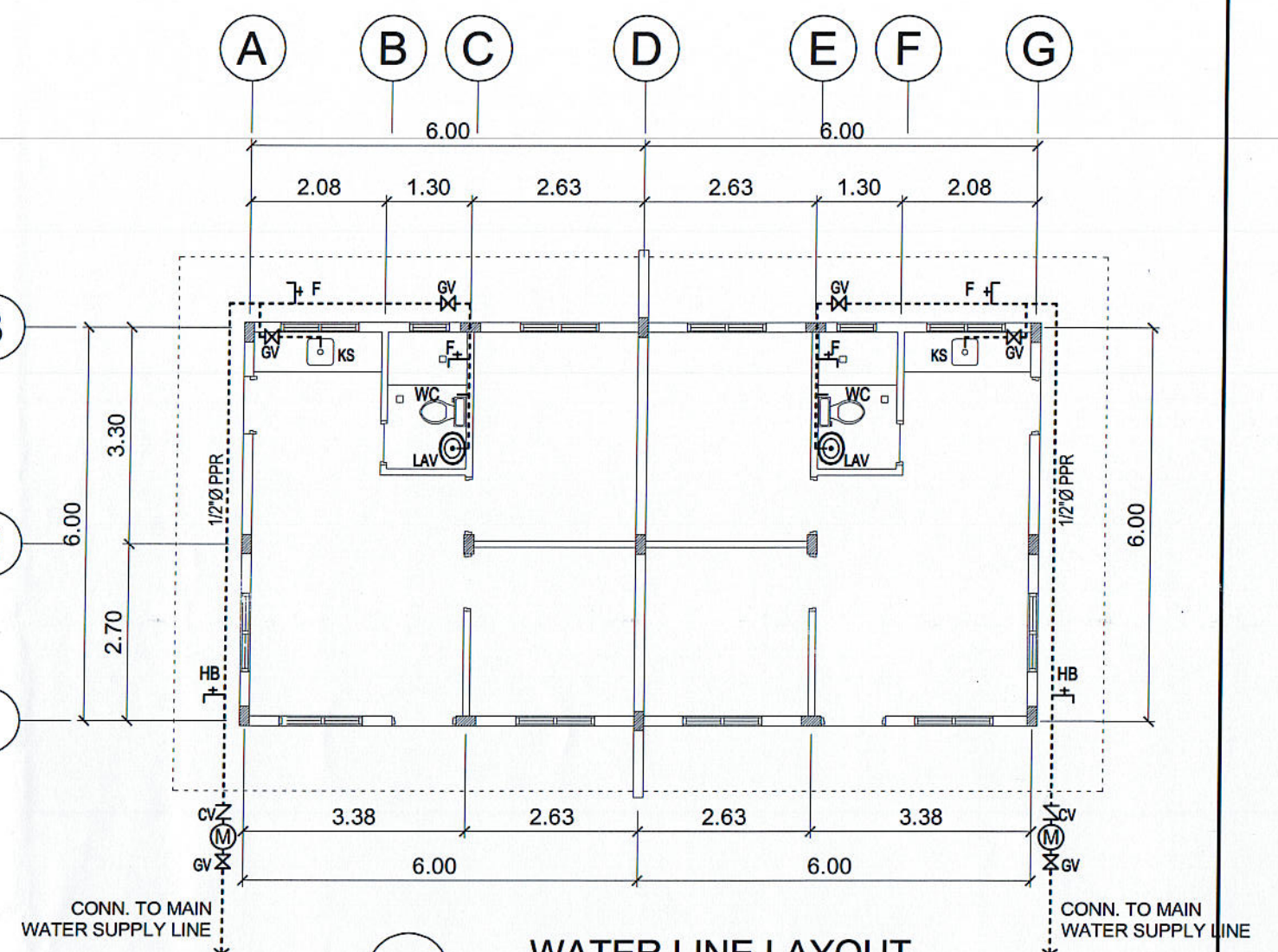
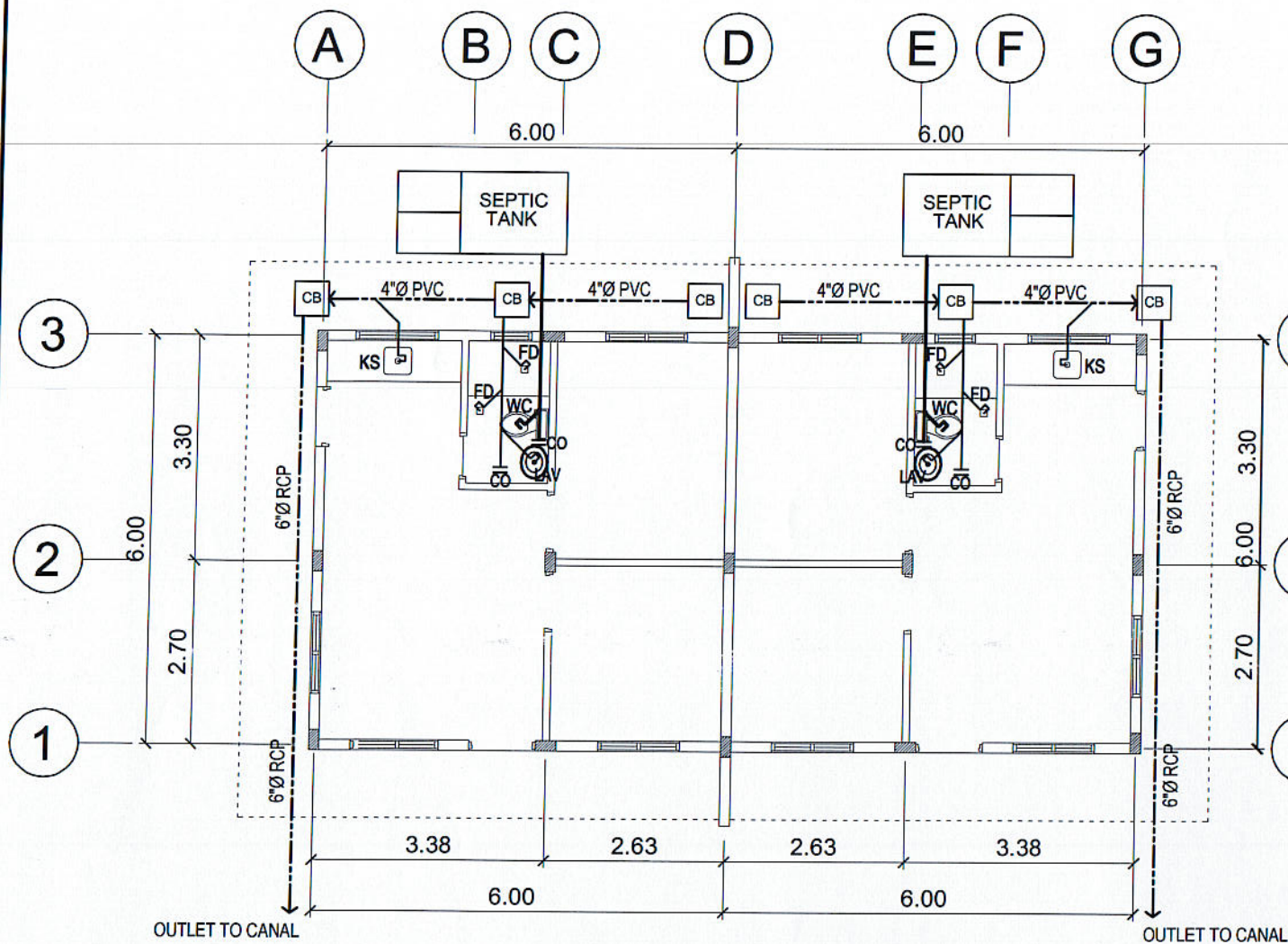
REC. APPROVAL:
C. A. POLINGA
VPASS CVSU

APPROVED BY:
H. D. ROBLES
PRES CVSU

PROJECT TITLE/ LOCATION:
PROPOSED FACULTY HOUSING
CVSU, MAIN CAMPUS

IMPLEMENTING AGENCY
CAVITE STATE UNIVERSITY

SHT NO:
S - 2



PREPARED BY:

 E. N. RODEROS JR.
 PPU O/PPD

REG. MASTER PLUMBER:

 S. B. BAYOT JR.
 PPU OVPPD

END USER:

 L. C. ABOGADIE
 DIRECTOR OBA

ENDORSED BY:

 O. B. OFLOS REYES
 DIRECTOR PLANNING OFFICE

 M. M. ESCOBAR
 VPD CVSU

REC. APPROVAL:

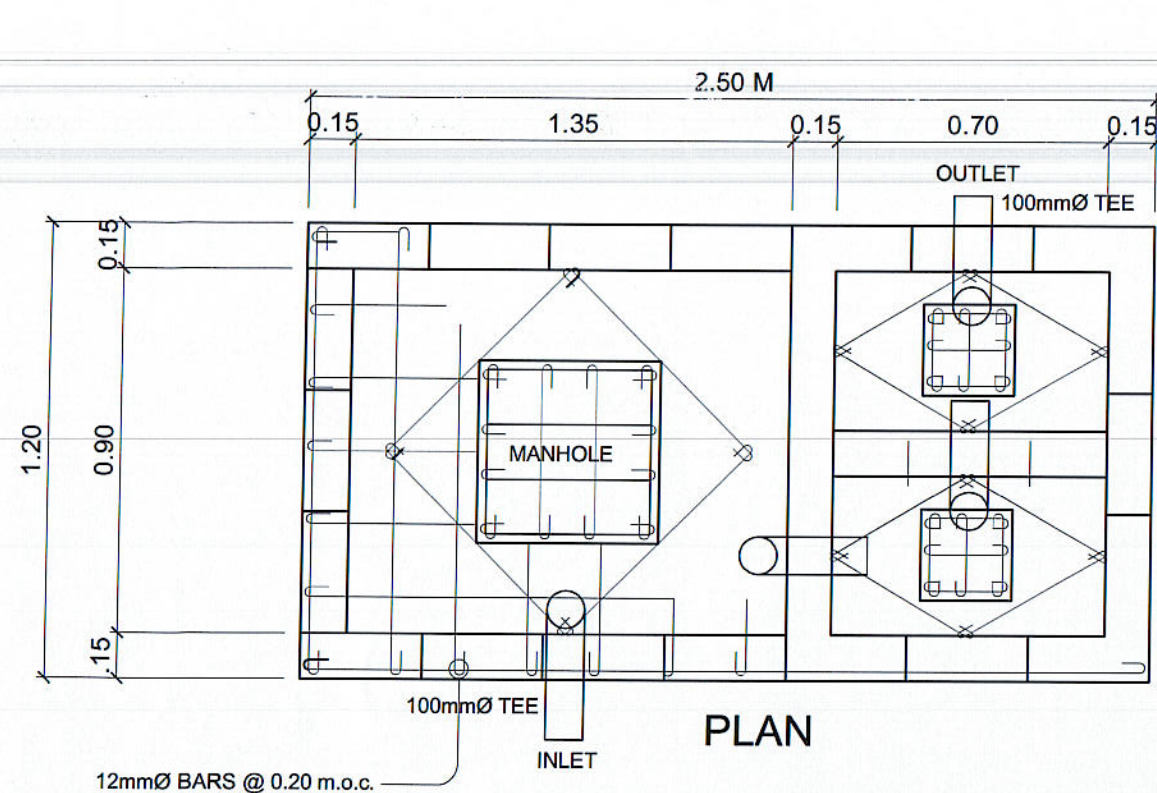
 C. A. POLINGA
 VPASS CVSU

APPROVED BY:

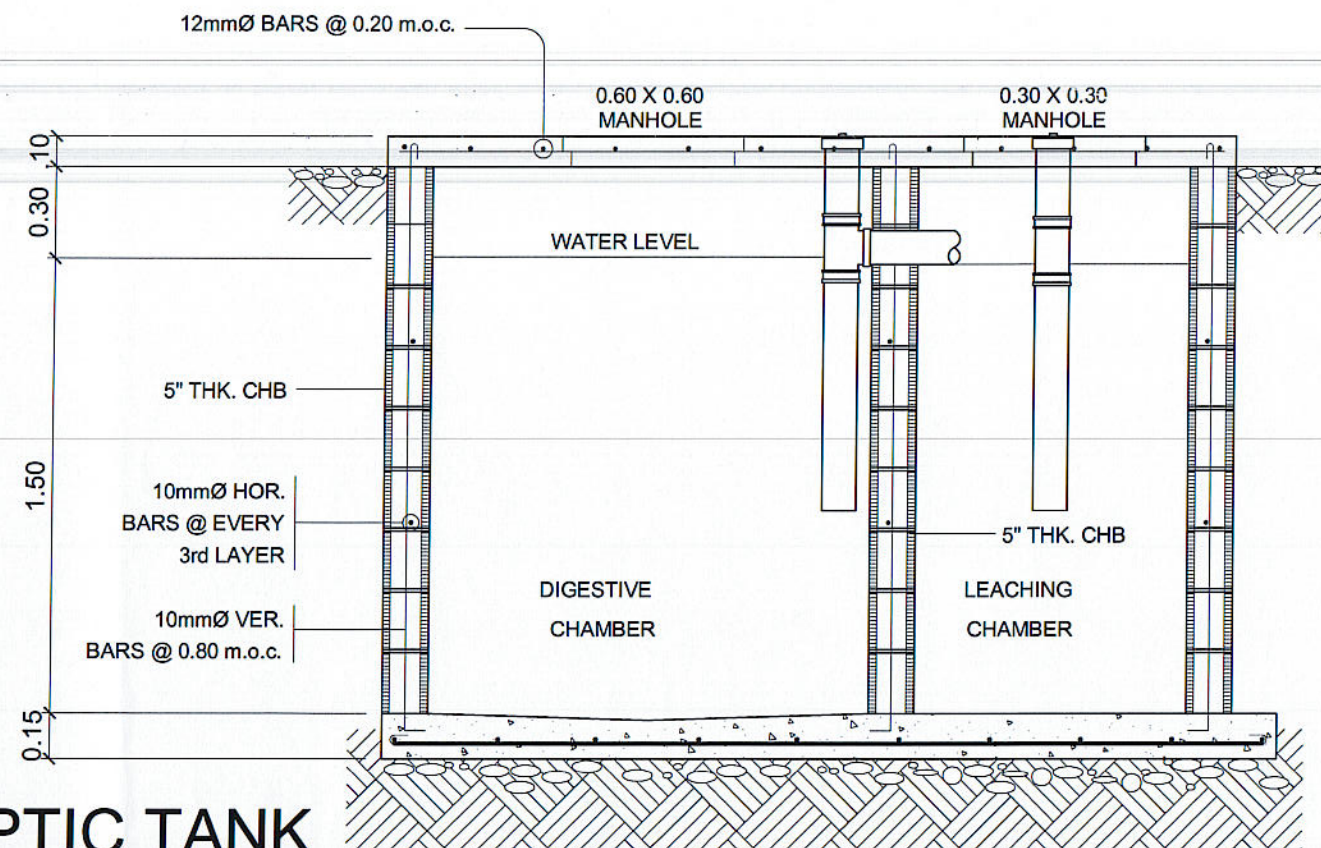
 H. D. ROBLES
 PRES CVSU

PROJECT TITLE/LOCATION:
 PROPOSED FACULTY HOUSING
 CVSU, MAIN CAMPUS

IMPLEMENTING AGENCY
 CAVITE STATE UNIVERSITY
 SHT NO:
 P - 1



PLAN



SECTION

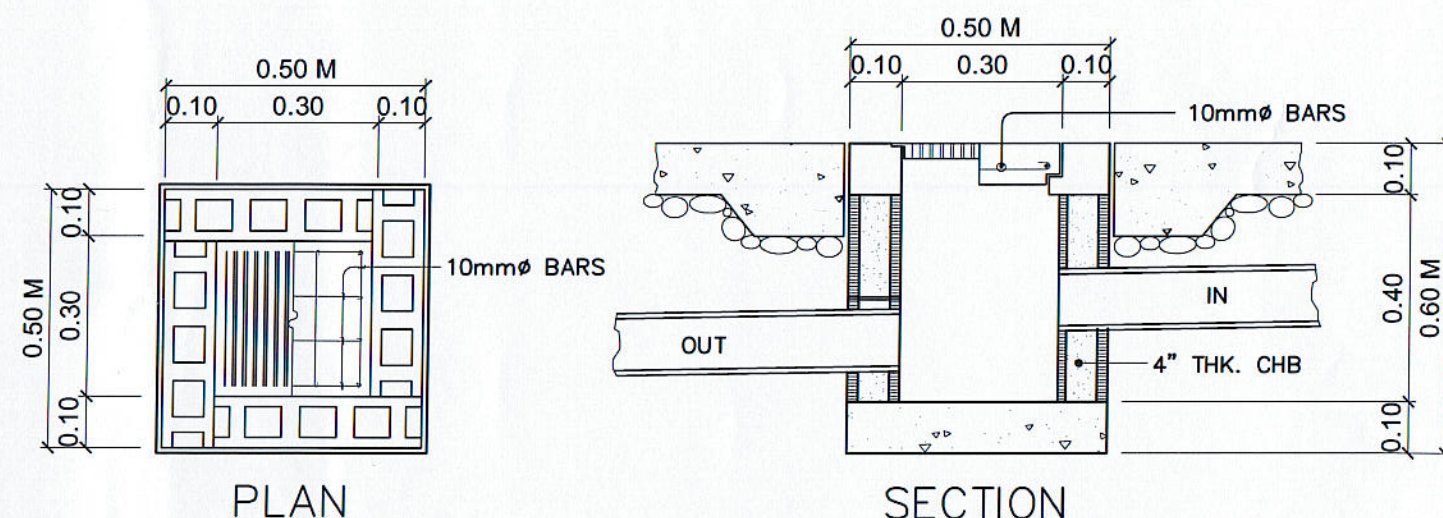
DETAIL OF SEPTIC TANK

SCALE

1 : 20 MTS.

GENERAL NOTES

- ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PHIL. PLUMBING CODE, THE NATIONAL PLUMBING CODE & THE RULES & REGULATIONS OF MENDEZ, CAVITE.
- COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DICREPANCY FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADE SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECHT OR ENGINEER.
- PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR. APPROVED EQUAL.
- ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% UNLESS OTHERWISE SPECIFIED.
- SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH WITH THE MANUFACTURER'S INSTRUCTIONS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE, COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT UNLESS OTHERWISE SPECIFIED.
- ALL PIPE SIZES ARE IN MILLIMETERS AND ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

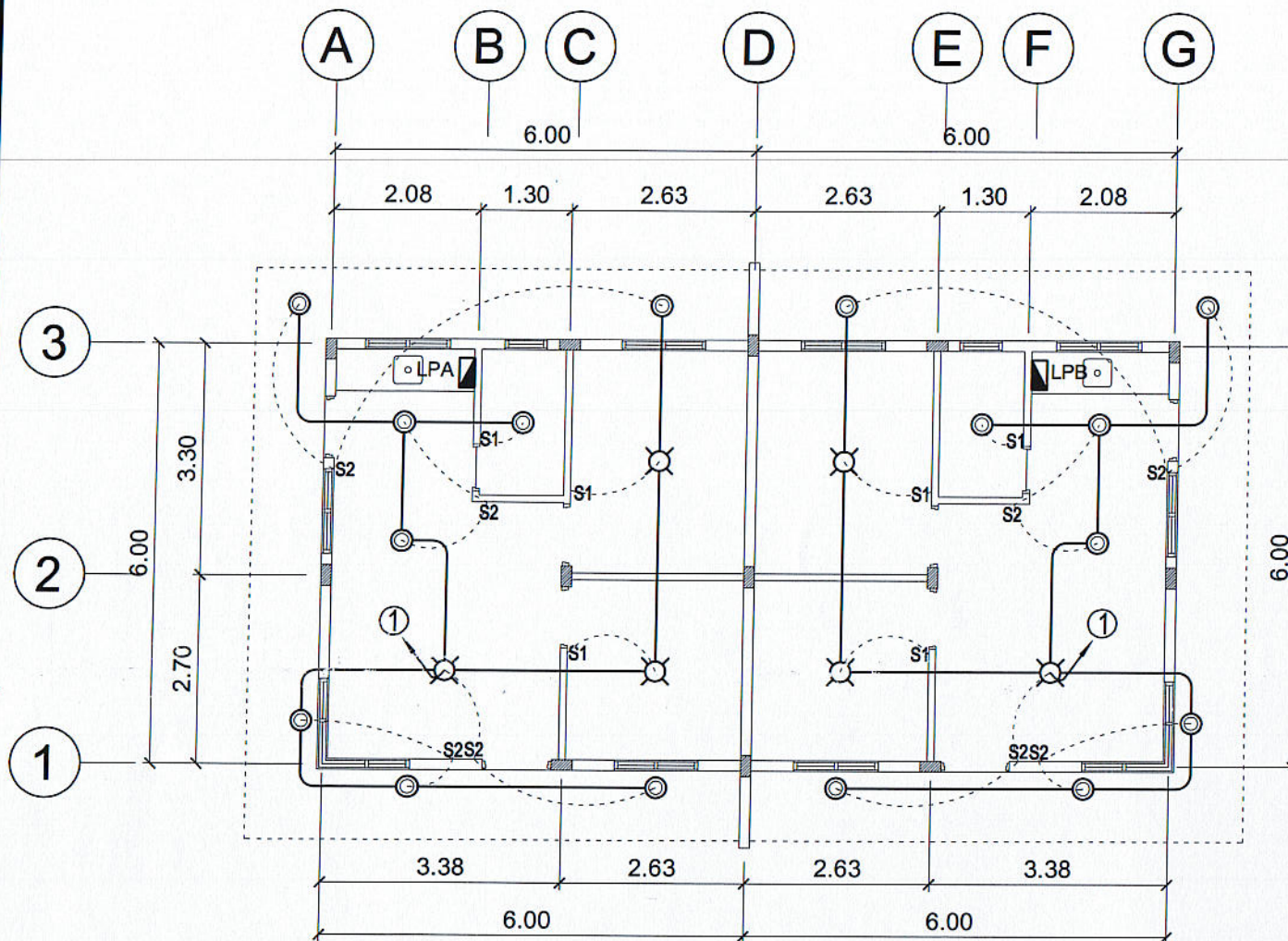


PLAN

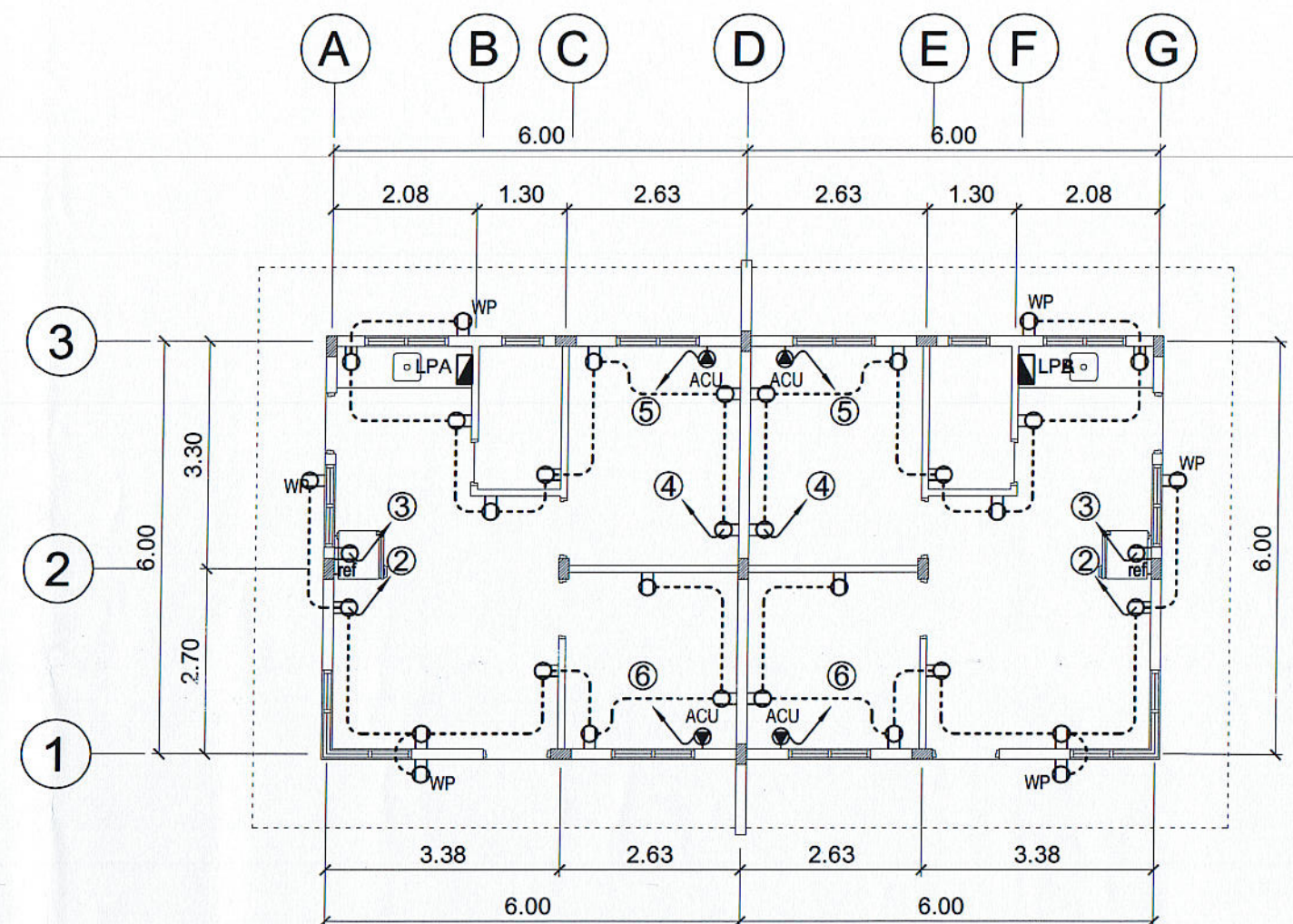
SECTION

DETAIL OF CATCH BASIN

PREPARED BY: E. N. RODEROS JR. PPU OVPPO		END USER: L. C. ABOGADIE DIRECTOR OBA		ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING OFFICE M. M. ESCOBAR VPPD CVSU		REC. APPROVAL: C. A. POLINGA VPASS CVSU		APPROVED BY: H. D. ROBLES PRES CVSU		PROJECT TITLE/LOCATION: PROPOSED FACULTY HOUSING CVSU, MAIN CAMPUS		IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY		SHT NO: P - 2	
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LIGHTING LAYOUT
SCALE 1 : 100 MTS.



CONVENIENCE OUTLET LAYOUT
SCALE 1 : 100 MTS.

PREPARED BY: <i>E. N. Roderos Jr.</i> E. N. RODEROS JR. PPU OVPPD		END USER: <i>L. C. Abocadie</i> L. C. ABOCADIE DIRECTOR OBA		ENDORSED BY: <i>O. B. De los Reyes</i> O. B. DELOS REYES DIRECTOR PLANNING OFFICE <i>M. M. Escobar</i> M. M. ESCOBAR VPPD CVSU		REC. APPROVAL: <i>C. A. Polinga</i> C. A. POLINGA VPASS CVSU		APPROVED BY: <i>H. D. Robles</i> H. D. ROBLES PRES CVSU		PROJECT TITLE/ LOCATION: PROPOSED FACULTY HOUSING CVSU, MAIN CAMPUS		IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY		SHT NO: E - 1	
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SCHEDULE OF LOADS

PANEL: LP CABLE: 2 - 8.0 SQ. MM THHN + G 5.5 SQ MM THHN MAIN: 50 AT, 50AF, 2P, 230V, 18 kAIC, MCCB
 PHASE: 1 CONDUIT: RSC, 25 MM DIA. ENCLOSURE: NEMA 1
 VOLTS: 230 MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN			CIRCUIT PROTECTION CIRCUIT BREAKER RATING	Size of Conductor		Size Of Conduit In MM Ø	Color Code
			WATTS	VOLT	AMPERES		SQ. MM THHN	SQ. MM THHN(G)		
1	11	LIGHTING OUTLET	1100	230	4.78	15AT, 2P, 10 KAIC	2 - 2.0		15	1R, 1BK
2	8	CONVENIENCE OUTLET	1440	230	6.26	20AT, 2P, 10 KAIC	2 - 3.5	+ G 2.0	15	1R, 1BK, G
3	1	REFRIGERATOR	750	230	3.26	20AT, 2P, 10 KAIC	2 - 3.5	+ G 2.0	15	1R, 1BK
4	8	CONVENIENCE OUTLET	3500	230	15.22	20AT, 2P, 10 KAIC	2 - 3.5	+ G 2.0	15	1R, 1BK, G
5	1	ACU	1000	230	8.00	20AT, 2P, 10 KAIC	2 - 3.5	+ G 2.0	15	1R, 1BK, G
6	1	ACU	1000	230	8.00	20AT, 2P, 10 KAIC	2 - 3.5	+ G 2.0	15	1R, 1BK, G
7		SPARE								
8		SPARE								
		TOTAL	8790	230	45.52	50AT, 2P, 10 KAIC	2 - 8.0	+ G 5.5	25	1R, 1BK, G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:

G - Means Ground Wire
 1R- Color RED
 1BK- Color BLACK
 1G- Color GREEN

$$I_{FL} = \frac{[40.91 + 25\% \times I_m]}{DF} = 46.34 \text{ Amperes}$$

use: 2 - 8.0 SQMM THHN + 1 - 5.5 SQMM THHN IN 25 MM DIA. RSC

$$ICB = \frac{[40.91 + 250\% \times I_m]}{DF} = 53.67 \text{ Amperes}$$

use: 50AT, 50AF, 2P, 230V, 10KAIC, CB

This Electrical Design is good only for the above connected loads.
 Any additional electrical load connection in the future is prohibited,
 Except redesign of electrical load system will be done.

PREPARED BY: RONALD P. PENA
 Professional Electrical Engineer
 PRC # 3857
 Expiry: April 1, 2022
 PTR # CAV 2124168
 Date: Jan. 04, 2021
 Place: Indang, Cavite
 TIN # 102-441-998

NOTES & SPECIFICATIONS:

- ALL ELECTRICAL WORKS TO BE UNDERTAKEN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE PART 1 AND 2 AND THE RULES AND REGULATIONS OF LOCAL ENFORCING UTILITY POWER AND TELEPHONE COMPANY.
- ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE NEW AND APPROVED TYPE FOR BOTH LOCATION AND PURPOSES.
- THERE SHALL BE ONLY ONE SERVICE DROP IN A BUILDING 230 VOLTS, 3 WIRE, 1 PHASE, 60 CYCLE.
- THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN AUTHORIZED FOR EACH GRADE.
- THE MINIMUM SIZE OF WIRE SHALL BE NUMBER 2.0mmØ COPPER, THHN TYPE UNLESS OTHERWISE NOTED.
- WIRING METHOD SHALL BE PVC FOR ALL BRANCH CIRCUITS AND RSC FOR SERVICE ENTRANCE.
- PROPER GROUNDING OR ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
- FIELD VERIFICATION SHALL BE DONE BY THE CONTRACTOR ANY DISCREPANCIES OR CHANGES SHALL BE PROMPTLY NOTIFIED TO THE OWNER'S REPRESENTATIVE OR DESIGNER.
- TYPE OF LIGHTING FIXTURE SHALL BE SUBMITTED TO THE ENGINEER OR ARCHITECT FOR APPROVAL.
- MOUNTING HEIGHT
 - SWITCHES-1400 MM.
 - CONVINIENCE OUTLET-300 MM.
 - CONVINIENCE OUTLET (COUNTER)-300 MM. ABOVE COUNTER.
 - REFRIGERATOR/ACU/RANGE OUTLET-300 MM.
 - WATER HEATER-500 MM. BELOW CEILING LINE.
 - CHIME BELL-300 MM. BELOW CEILING LINE.
 - TELEPHONE/TV/INTERCOM OUTLET-300 MM.
 - HEAT/SMOKE DETECTOR-CEILING MOUNTED.
 - EMERGENCY LIGHT-500 MM. BELOW CEILING LINE.
 - METER CENTER-SUBMIT SHOP DRAWING FOR APPROVAL.

PREPARED BY:
 E. N. RODEROS JR.
 PPU OVPPD

PROF. ELECTL. ENGR.:
 R. P. PENA
 PPU OVPPD

END USER:
 L. C. ABUGADIE
 DIRECTOR OBA

ENDORSED BY:
 O. S. DELOS REYES
 DIRECTOR PLANNING OFFICE
 M. M. ESCOBAR
 VPAS CVSU

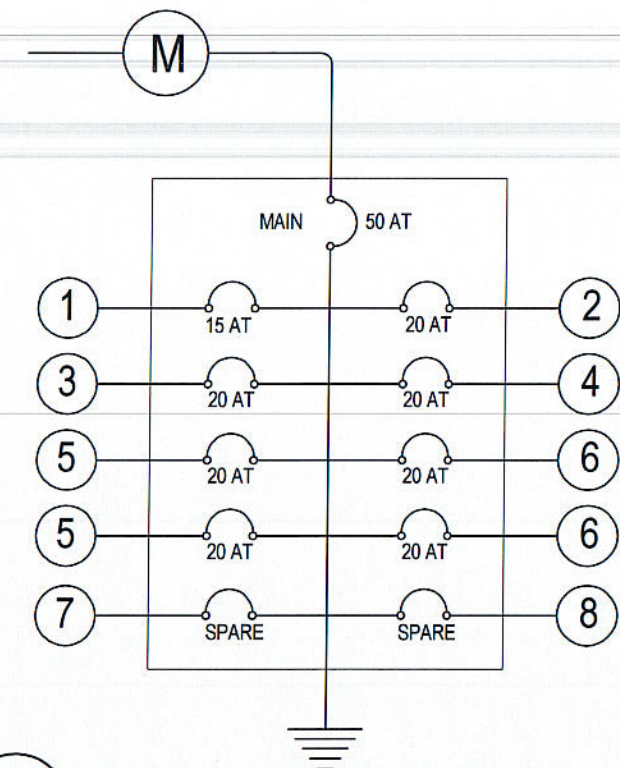
REC. APPROVAL:
 C. A. POLINGA
 VPAS CVSU

APPROVED BY:
 H. D. ROBLES
 PRES CVSU

PROJECT TITLE/ LOCATION:
 PROPOSED FACULTY HOUSING
 CVSU, MAIN CAMPUS

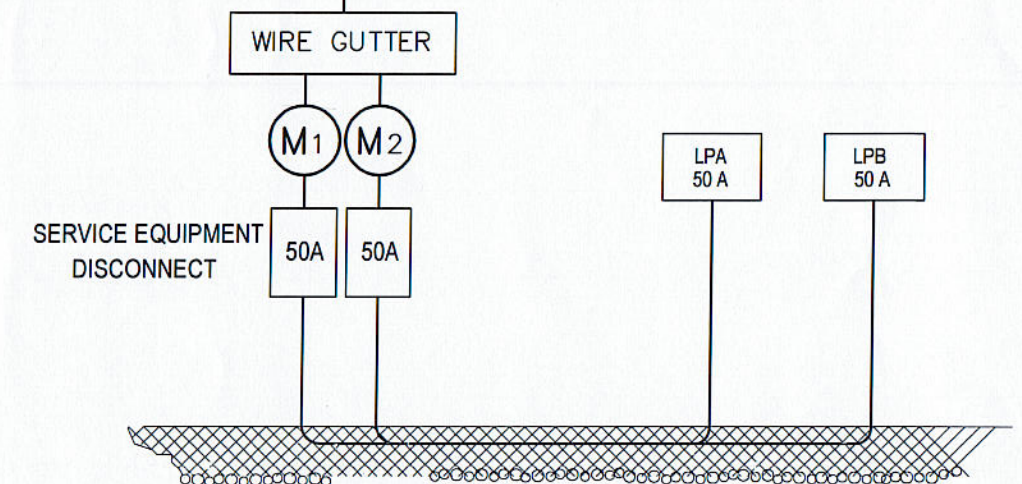
IMPLEMENTING AGENCY
 CAVITE STATE UNIVERSITY

SHT NO:
 E - 2



RISER DIAGRAM

32 mmØ ENTRANCE CAP
 1Ø, 3 WIRE, 230V, MERALCO SUPPLY



POWER FEEDER SINGLE LINE DIAGRAM
 SCALE: N T S