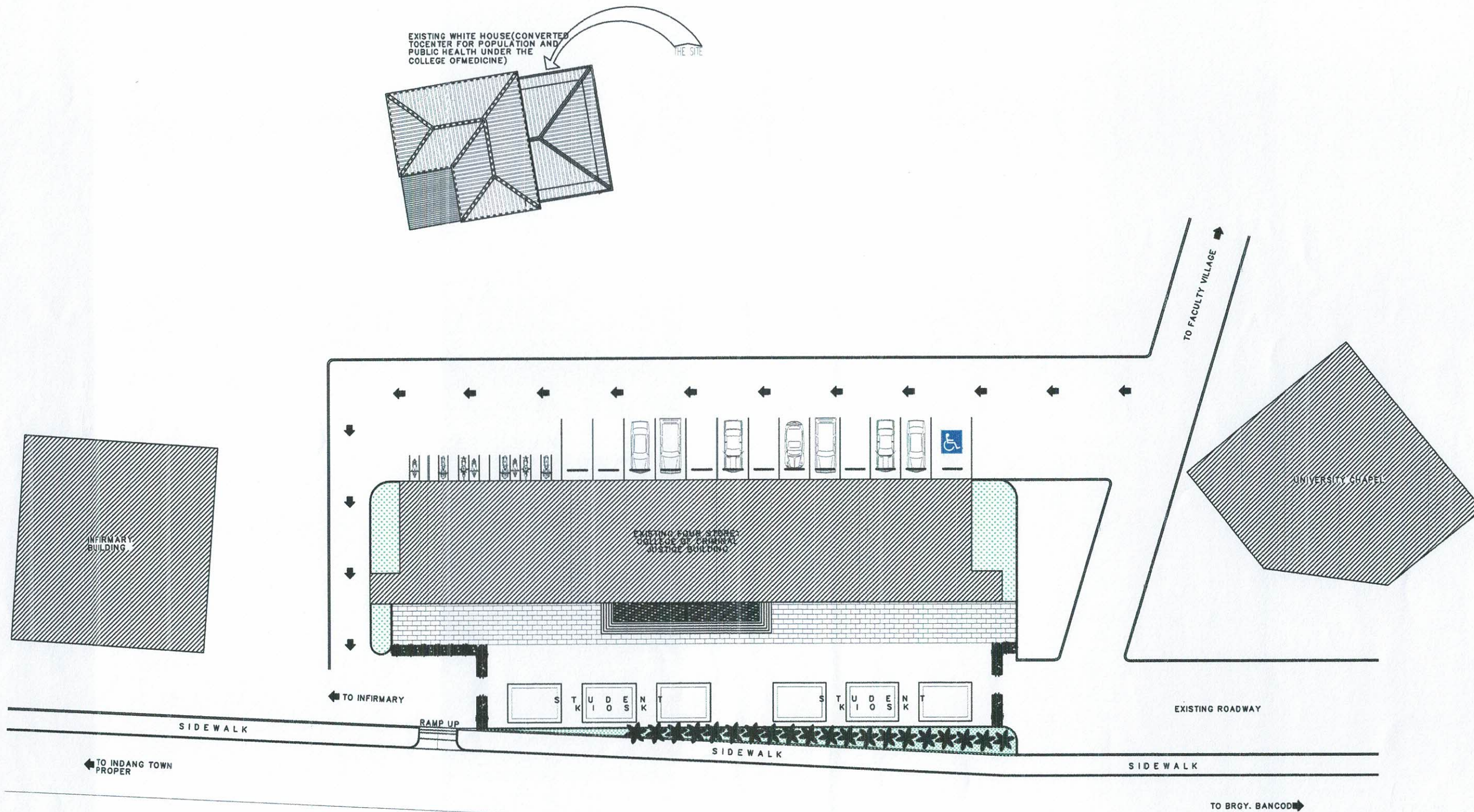


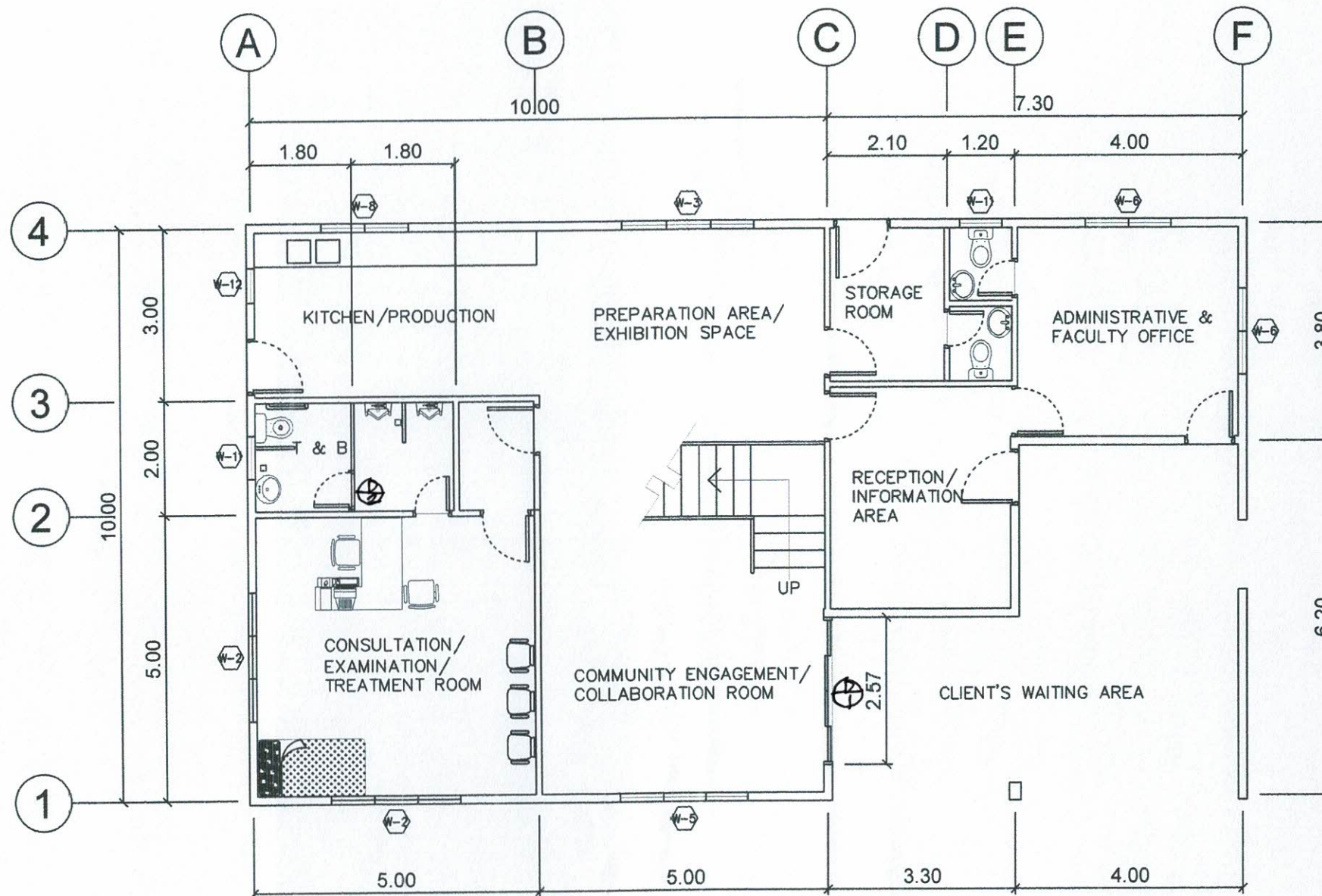


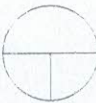
SITE DEVELOPMENT PLAN

SCALE

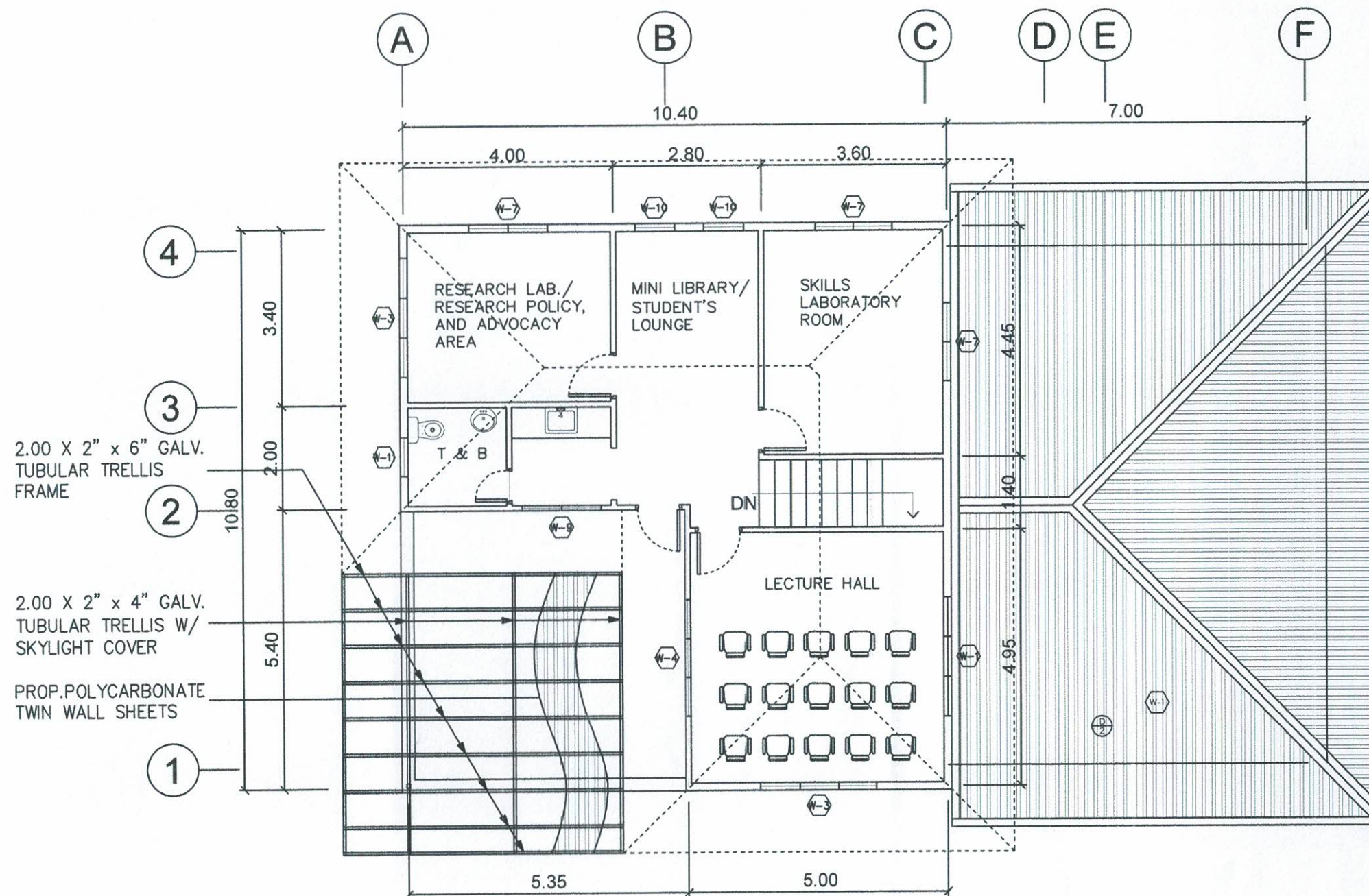
NTS.

	PREPARED BY: E. A. RAMOS IPU OVPPD	END USER: E. J. GALVEZ DEAN COM	REVIEWED BY: E. N. RODEROS JR. ARCHITECT	ENDORSED BY: S. B. BAYOT JR. HEAD PDU	REC. APPROVAL: O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	 M. J. L. TEPOÑA VPASS CVSU	 J. X. B. NEPOMUCENO VPASS CVSU	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/ LOCATION: REPAIR AND IMPROVEMENT OF WHITE HOUSE COVERTED TO CENTER FOR POPULATION & PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: A - 1
--	---	--	---	--	--	---	---	--	---	---	-------------------------



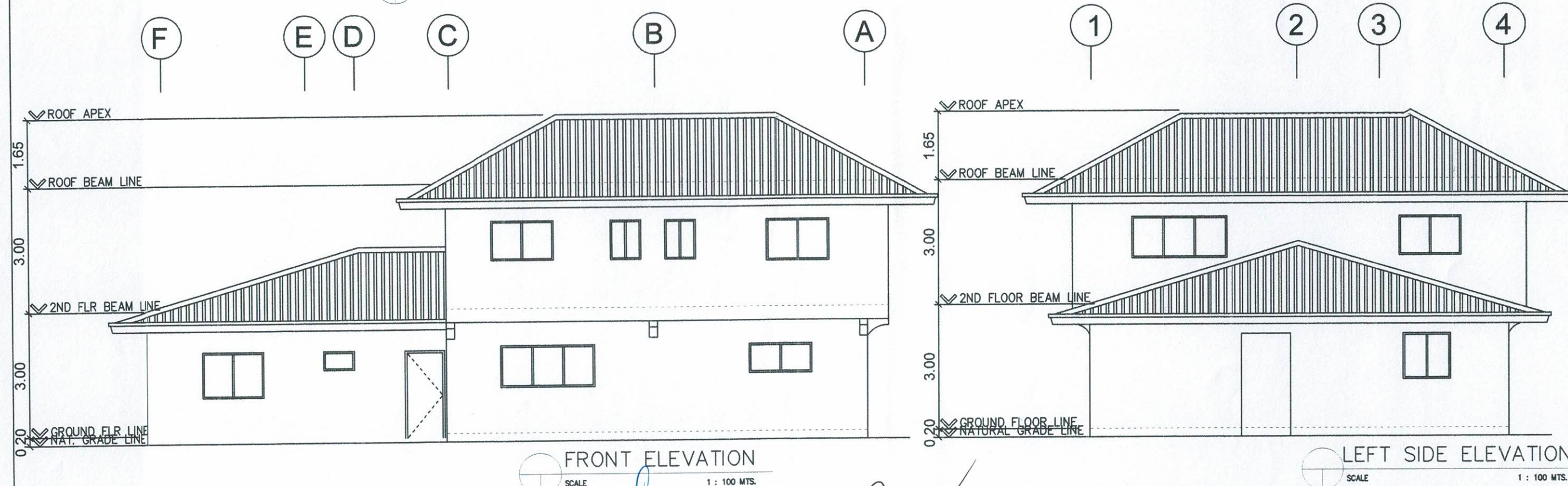
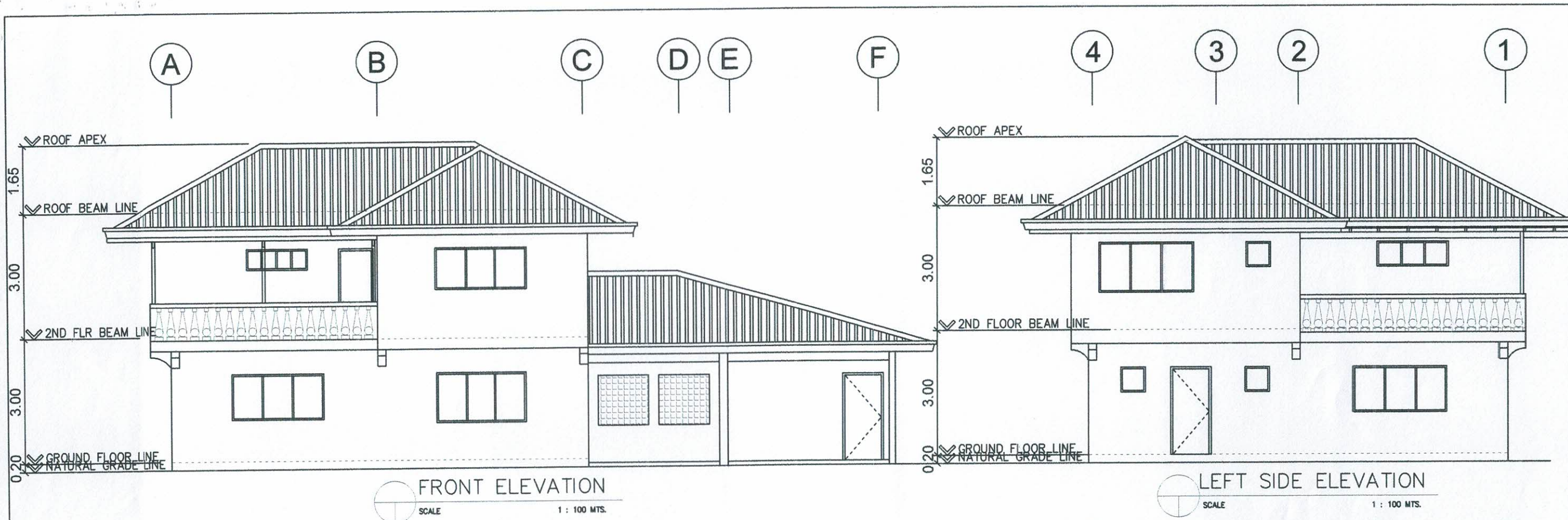

GROUND FLOOR PLAN
 SCALE 1 : 100 MTS.

	PREPARED BY: RAMOS IPU OVPPD	END USER: E. J. GALVEZ DEAN COM	REVIEWED BY: E. N. RODEROS JR. ARCHITECT	ENDORSED BY: S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: M. J. DITEPORA VPPD CVSU	J. X. B. NEPOMUCENO VPASS CVSU	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/ LOCATION: REPAIR AND IMPROVEMENT OF WHITE HOUSE COVERED TO CENTER FOR POPULATION & PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: A - 2
---	---	--	---	--	---	--	--	--	---	--	-------------------------

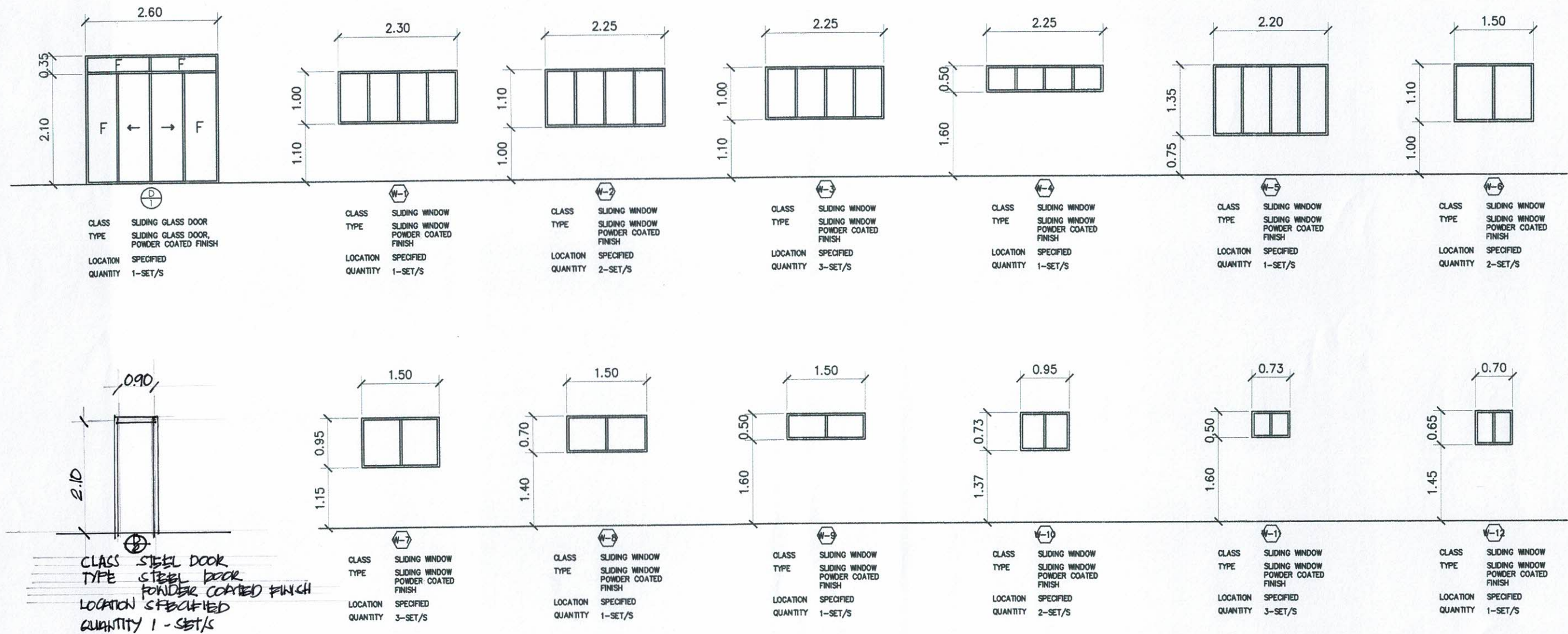


SECOND FLOOR PLAN
SCALE 1 : 100 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.
	 E. J. RAMOS IPU OVPPD	 E. J. GALVEZ DEAN COM	 E. N. RODEROS JR. ARCHITECT	 S. B. BAYOT JR. HEAD RDU	 O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	 M. J. D. TEPORA VPPD CVSU	 J. X. B. NEPOMUCENO VPASS CVSU	 H. D. ROBLES PRES CVSU	REPAIR AND IMPROVEMENT OF WHITE HOUSE COVERED TO CENTER FOR POPULATION & PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 3

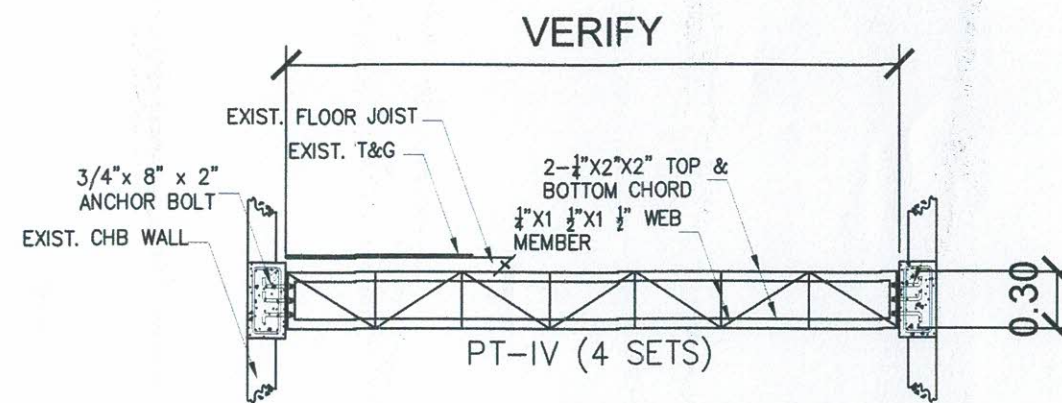
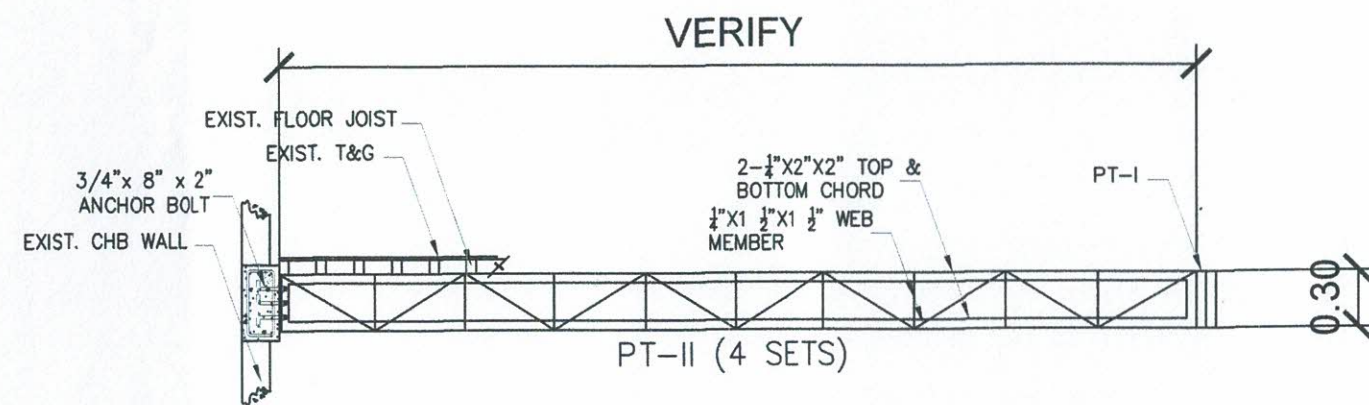
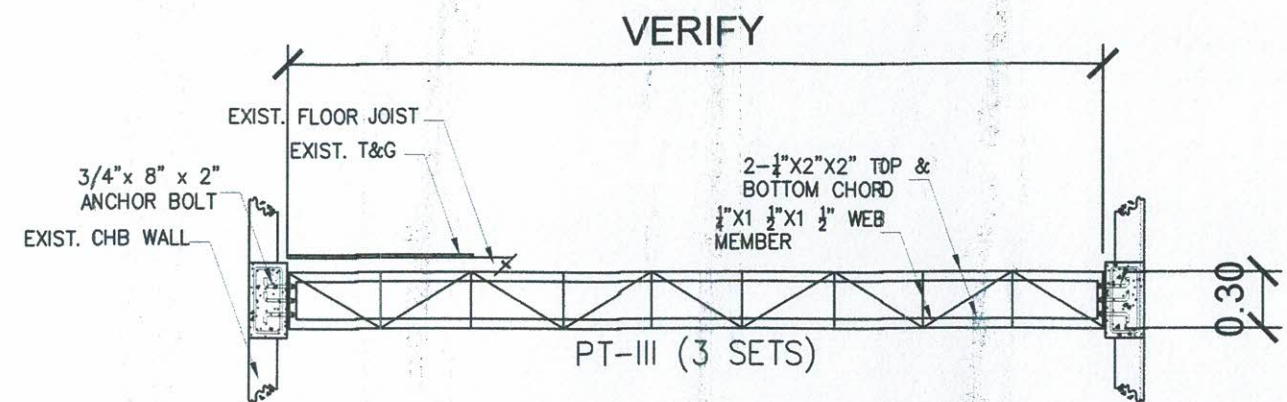
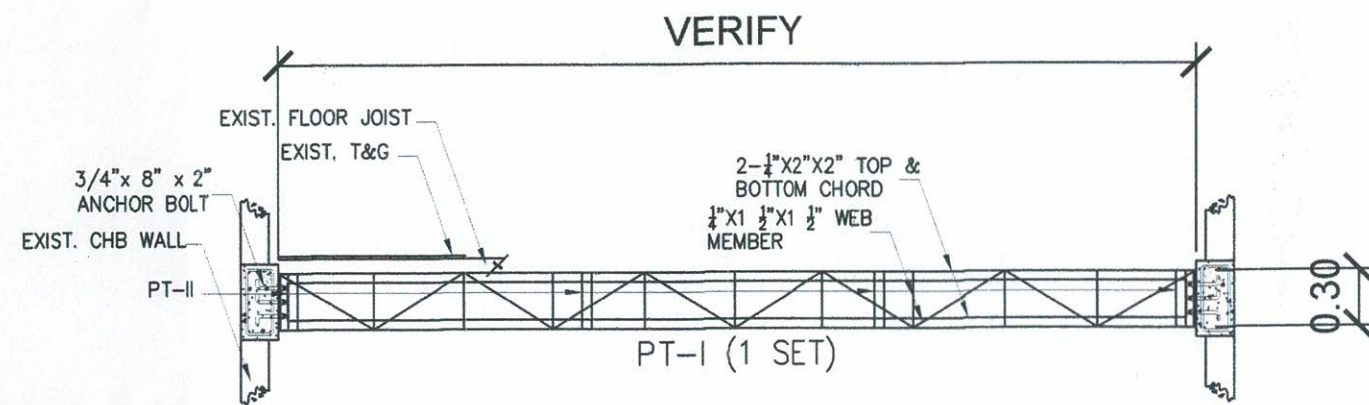


	PREPARED BY: R. A. RAMOS IPU OVPPD	END USER: E. J. GALVEZ COM DEAN	REVIEWED BY: E. N. RODEROS JR. ARCHITECT	S. B. BAYOT JR. HEAD	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: M. J. D. TEPORA VPPD	J. X. B. VEPOMUCENO VPASS	APPROVED BY: H. D. ROBLES PRES	PROJECT TITLE/ LOCATION: REPAIR AND IMPROVEMENT OF WHITE HOUSE COVERED TO CENTER FOR POPULATION & PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: A - 4
--	--	---------------------------------------	--	-------------------------	---	---	------------------------------	--------------------------------------	---	---	------------------



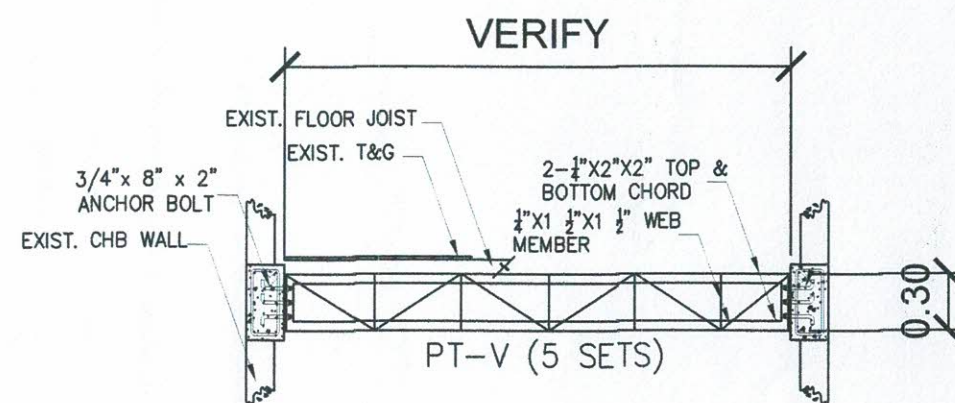
SCHEDULE OF DOORS & WINDOWS
 SCALE NTS.

	PREPARED BY: E. J. GALVEZ DEAN	END USER: E. J. GALVEZ COM	REVIEWED BY: E. N. RODEROS JR. ARCHITECT	ENDORSED BY: S. B. BAYOT JR. HEAD	REC. APPROVAL: O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	APPROVED BY: M. J. D. TEJERA VPPD	APPROVED BY: J. X. B. MUCENO VPASS	APPROVED BY: H. D. ROBLES PRES	PROJECT TITLE/ LOCATION: REPAIR AND IMPROVEMENT OF WHITE HOUSE COVERED TO CENTER FOR POPULATION & PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: A - 5
--	--------------------------------------	----------------------------------	--	---	---	---	--	--------------------------------------	---	---	-------------------

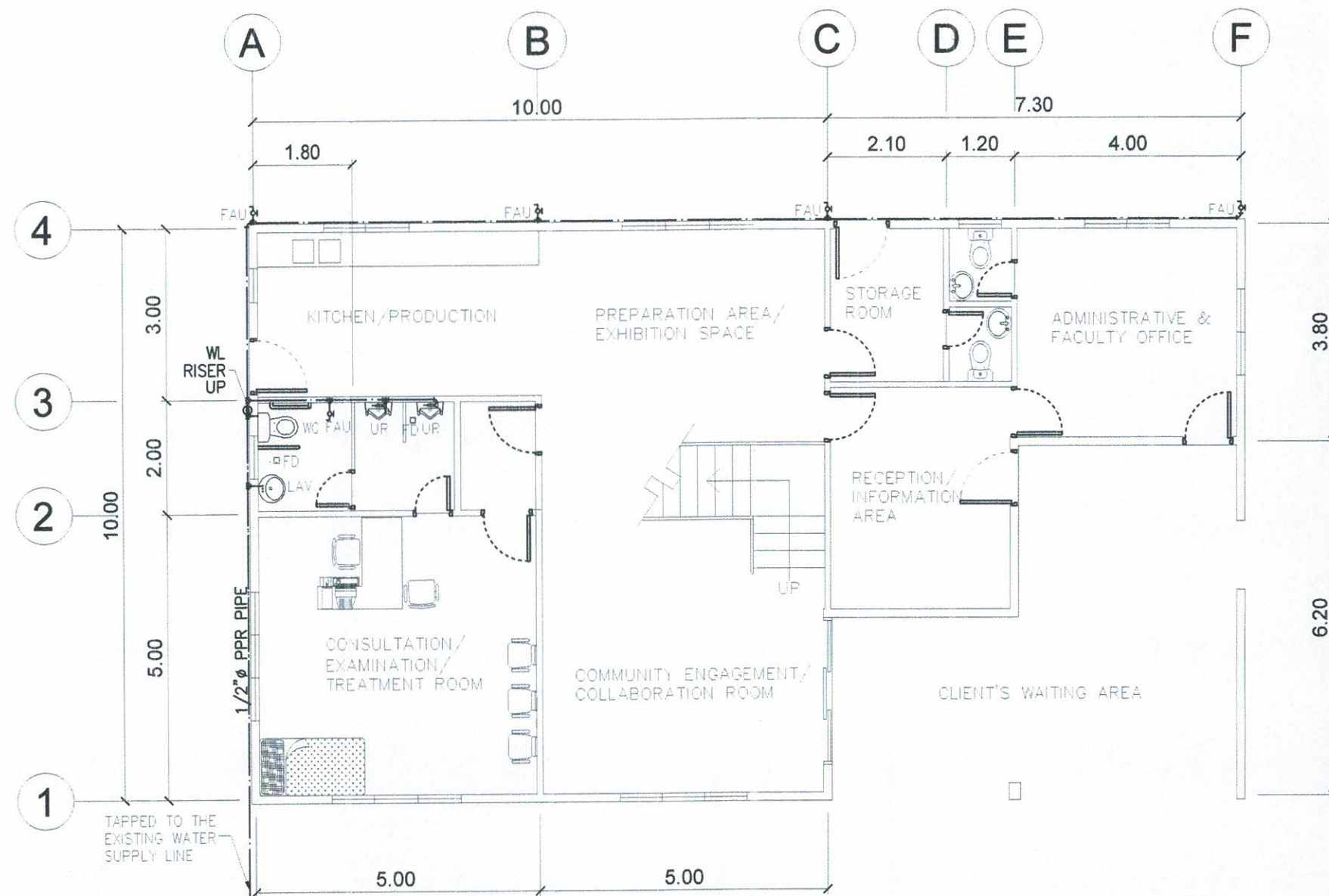


NOTE: ANCHOR BOLT SHOULD BE HOOKED/EMBEDDED IN THE EXISTING CHIPPED REBARS OF THE BEAM

TRUSS DETAILS
SCALE NTS.



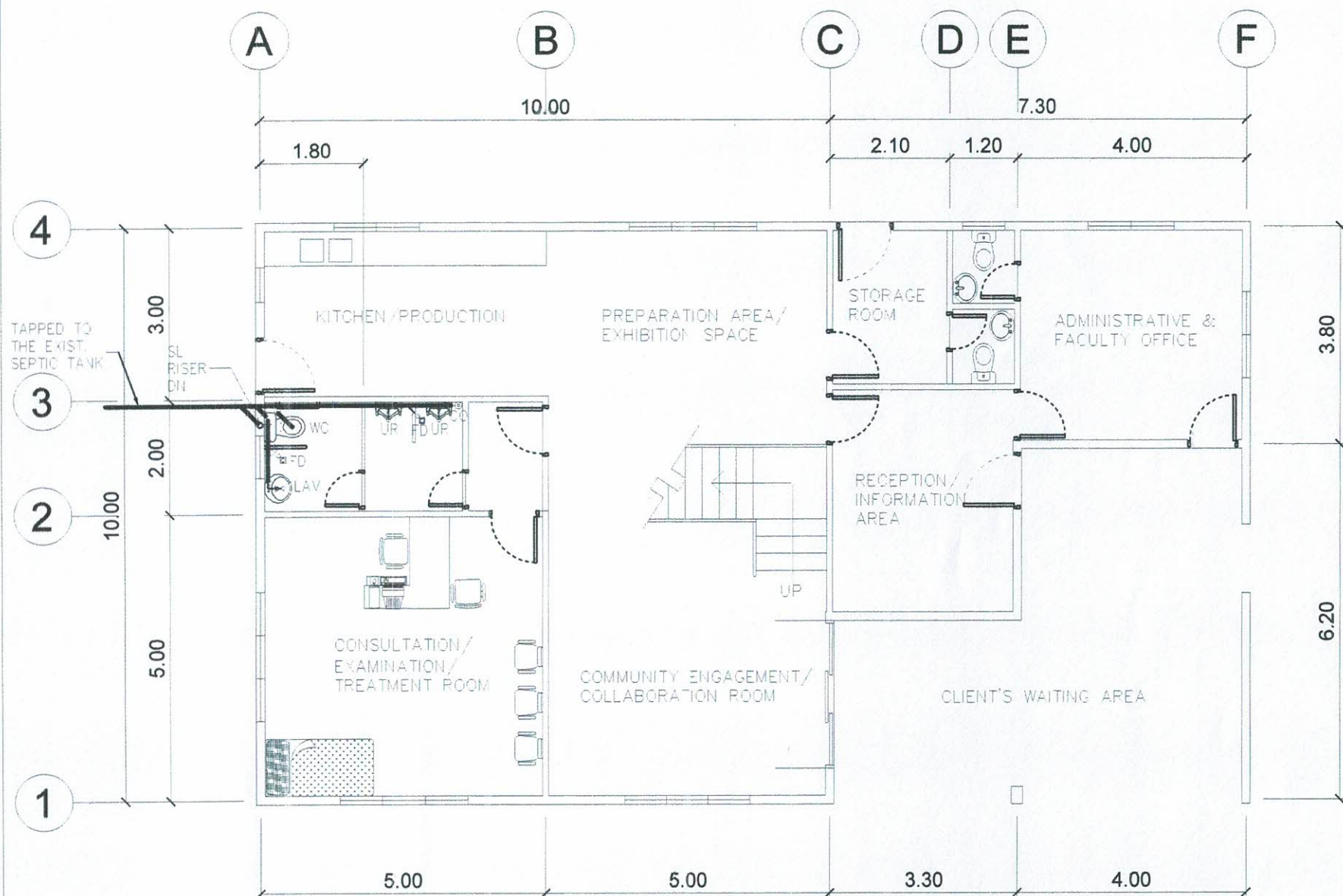
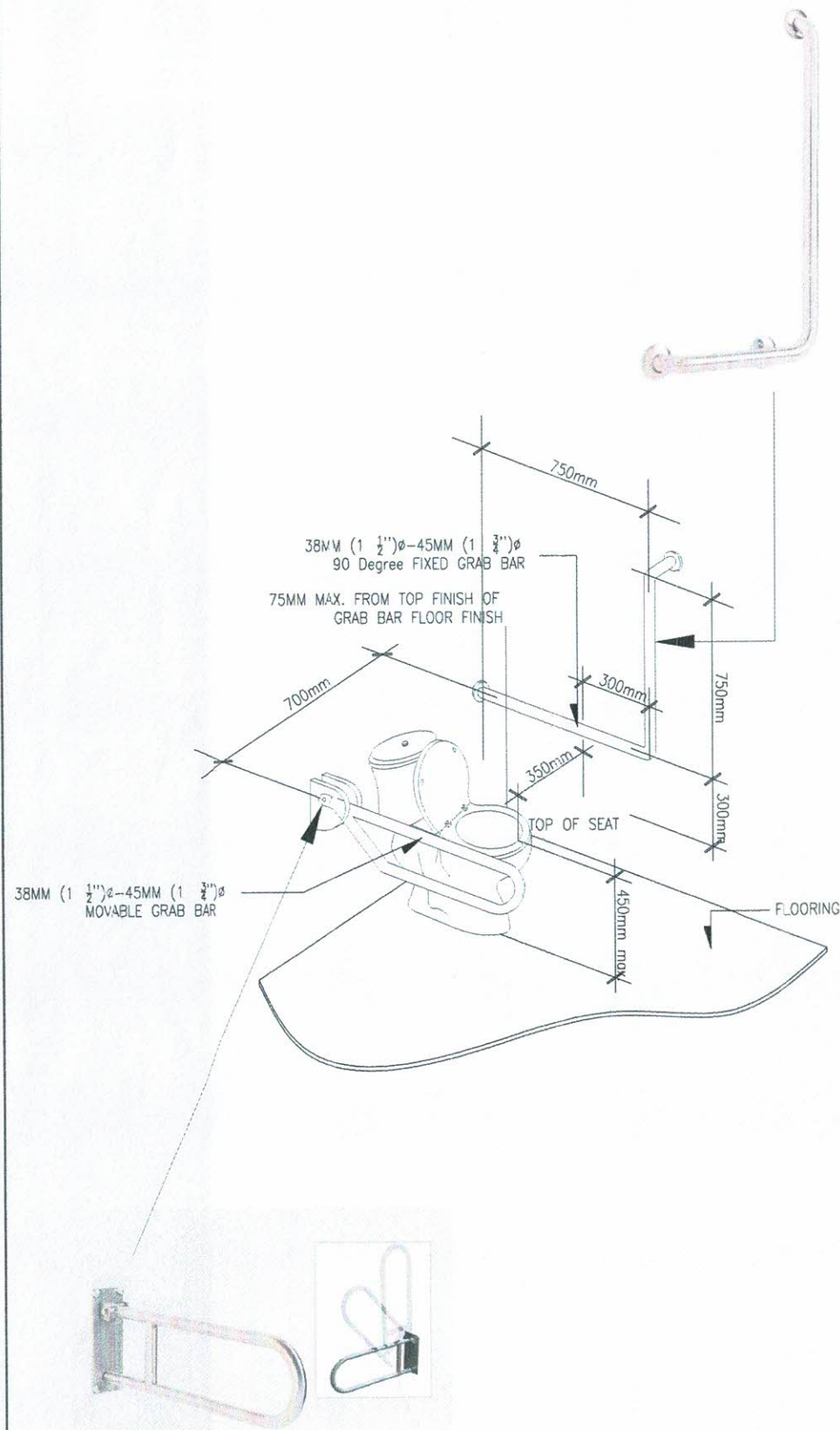
	PREPARED BY: F. RAMOS IPU	END USER: E. J. GALVEZ DEAN COM	REVIEWED BY: L. E. ROCELA CIVIL ENGINEER	S. B. BAYOT JR. HEAD PDU	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	REC. APPROVAL: M. J. D. YEPORA VPPD CVSU	J. X. B. M. MUCENO VPASS CVSU	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/ LOCATION: REPAIR AND IMPROVEMENT OF WHITE HOUSE (COVERED TO CENTER FOR POPULATION & PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE) CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: S - 2
--	---------------------------------	---------------------------------------	--	-----------------------------	---	--	----------------------------------	---	---	---	-------------------



GROUND FLOOR
WATER LINE LAYOUT

SCALE 1 : 100 MTS.

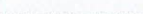
	PREPARED BY: <i>[Signature]</i> F. A. RAMOS OVPPD	END USER: <i>[Signature]</i> E. J. GALVEZ DEAN COM	REVIEWED BY: <i>[Signature]</i> E. N. RODEROS JR. ARCHITECT	ENDORSED BY: <i>[Signature]</i> S. B. BAYOT JR. HEAD DOU	REC. APPROVAL: <i>[Signature]</i> O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	APPROVED BY: <i>[Signature]</i> M. J. D. TEJERA VPPD CVSU	<i>[Signature]</i> J. X. B. NEPOMUCENO VPASS CVSU	<i>[Signature]</i> M. D. ROBLES PRES CVSU	PROJECT TITLE/ LOCATION: REPAIR AND IMPROVEMENT OF WHITE HOUSE COVERED TO CENTER FOR POPULATION & PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: P - 1
--	--	--	--	--	--	---	--	--	--	--	------------------



GROUND FLOOR
SANITARY LINE LAYOUT

SCALE

1 : 100 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	 E. J. RAMOS IPU OVPPD	 E. J. GALVEZ DEAN COM	 E. N. RODEROS JR. ARCHITECT	 S. B. BAYOT JR. HEAD PDI	 O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	 M. J. D. TEPORA VPPD CVSU	 J. X. B. TEPOMUCENO VPASS CVSU	 H. D. ROBLES PRES CVSU	REPAIR AND IMPROVEMENT OF WHITE HOUSE COVERED TO CENTER FOR POPULATION & PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS

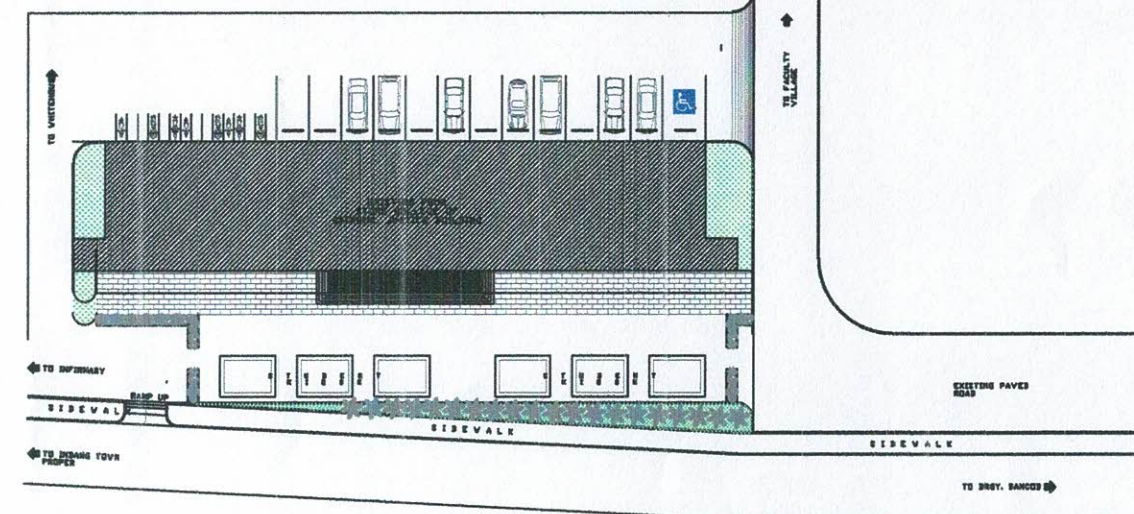
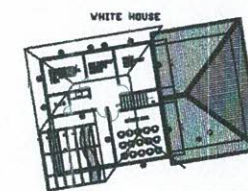
GENERAL NOTES AND SPECIFICATIONS:

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 OF 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 PRESENT 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.

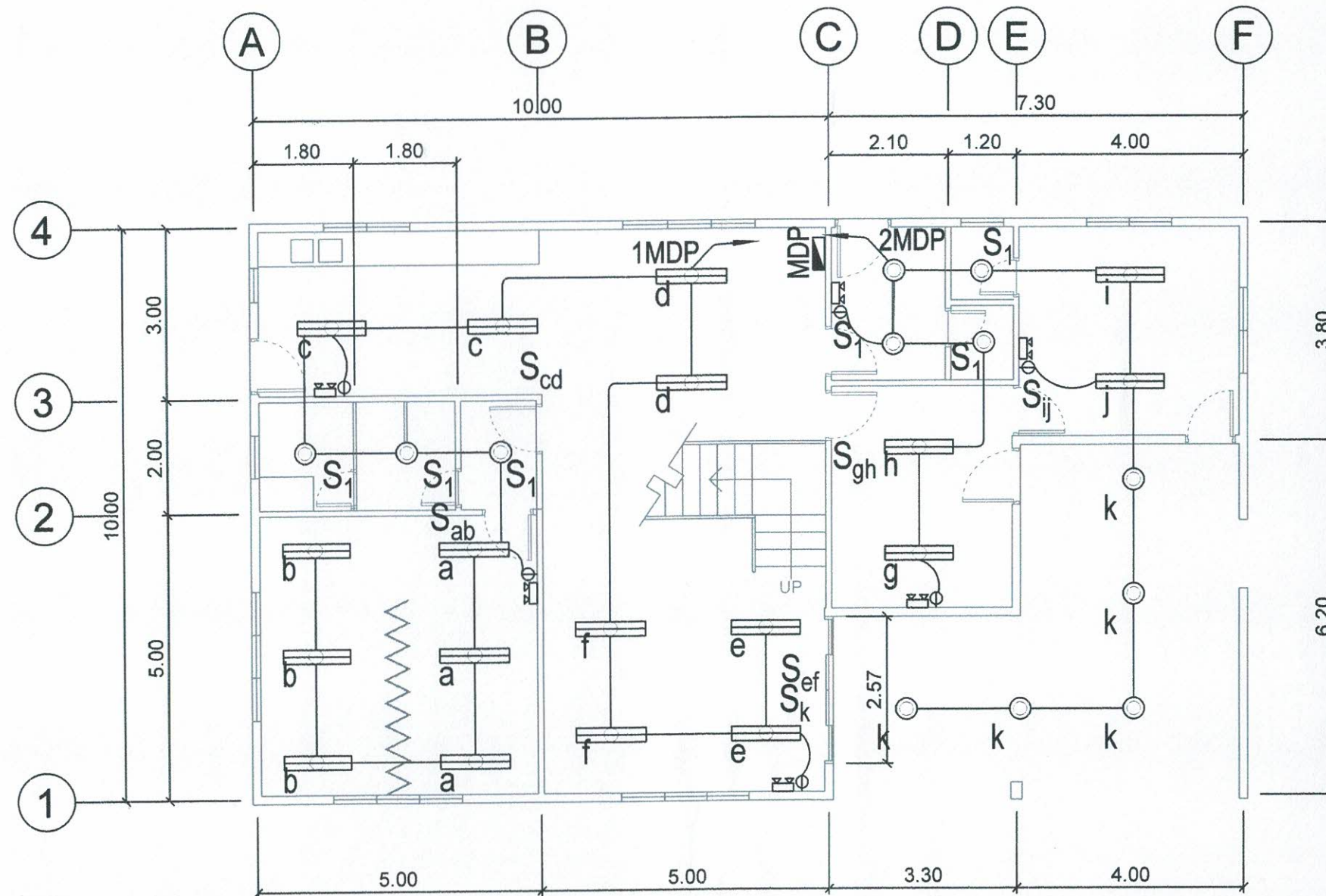
LEGEND AND SYMBOLS :

	LED DOWNLIGHT, VERTICAL RECESSED, ROUND 12W w/ 6" CASING FIXTURE		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 mm² THHN
	2-18W LED TUBE LIGHT WITH DIFFUSER, 4 FT. LENGTH (FL)		3.5 mm² THHN
	EMERGENCY LIGHT (EL)		CIRCUIT HOMERUN
	ONE GANG SWITCH		CIRCUIT NUMBER
	TWO GANG SWITCH		PANEL BOARD
	THREE GANG SWITCH		SERVICE ENTRANCE
	THREE WAY SWITCH		KILOWATT HOUR METER
	TWO GANG CONVENIENCE OUTLET		CONCRETE ENCASEMENT
	WEATHER-PROOF TWO GANG CONVENIENCE 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



1 SITE DEVELOPMENT PLAN
E1 SCALE 1:700 MTS.

	PREPARED BY: R. J. R. SANCHEZ PDU	END USER: E. J. GALVEZ DEAN	REVIEWED BY: R. J. R. SANCHEZ PDU	ENDORSED BY: S. B. BAYOT JR. HEAD	REC. APPROVAL: O. B. DELOS REYES DIRECTOR	APPROVED BY: M. J. D. TEOPORA VPPD	APPROVED BY: J. A. B. NEPOMUCENO VPASS	APPROVED BY: H. D. ROBLES PRES	PROJECT TITLE/ LOCATION: IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 1
--	---	-----------------------------------	---	---	---	--	--	--------------------------------------	--	---	------------------



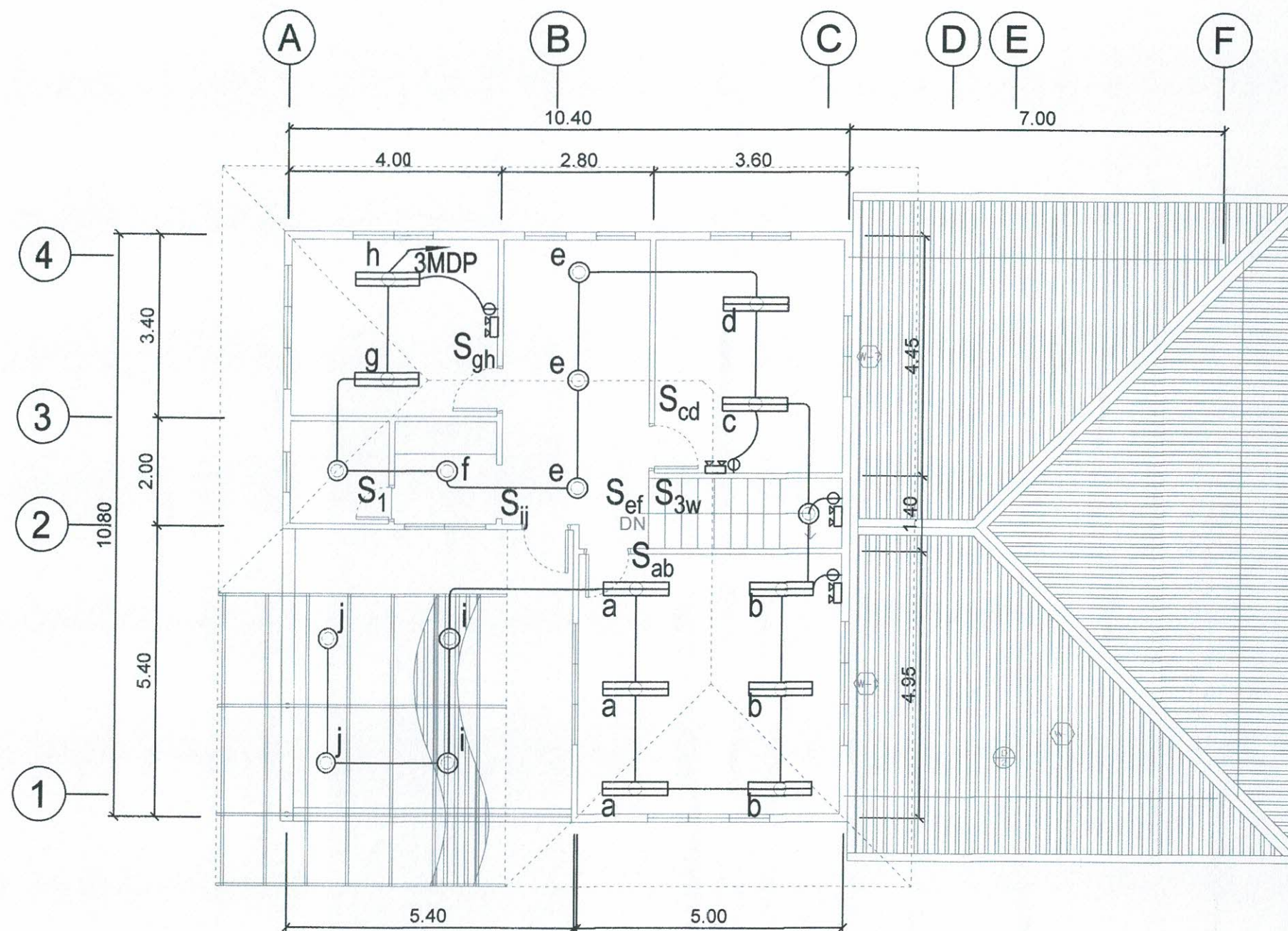
GROUND FLOOR PLAN LIGHTING LAYOUT

1
E/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. J. R. SANCHEZ POU	E. J. GALVEZ DEAN COM	R. P. PERA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD POU	O. B. DELOS REYES DIRECTOR PLANNING AND DEV. OFFICE	M. J. D. TEPORA VPPD	J. X. B. MENDOZ MUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 2



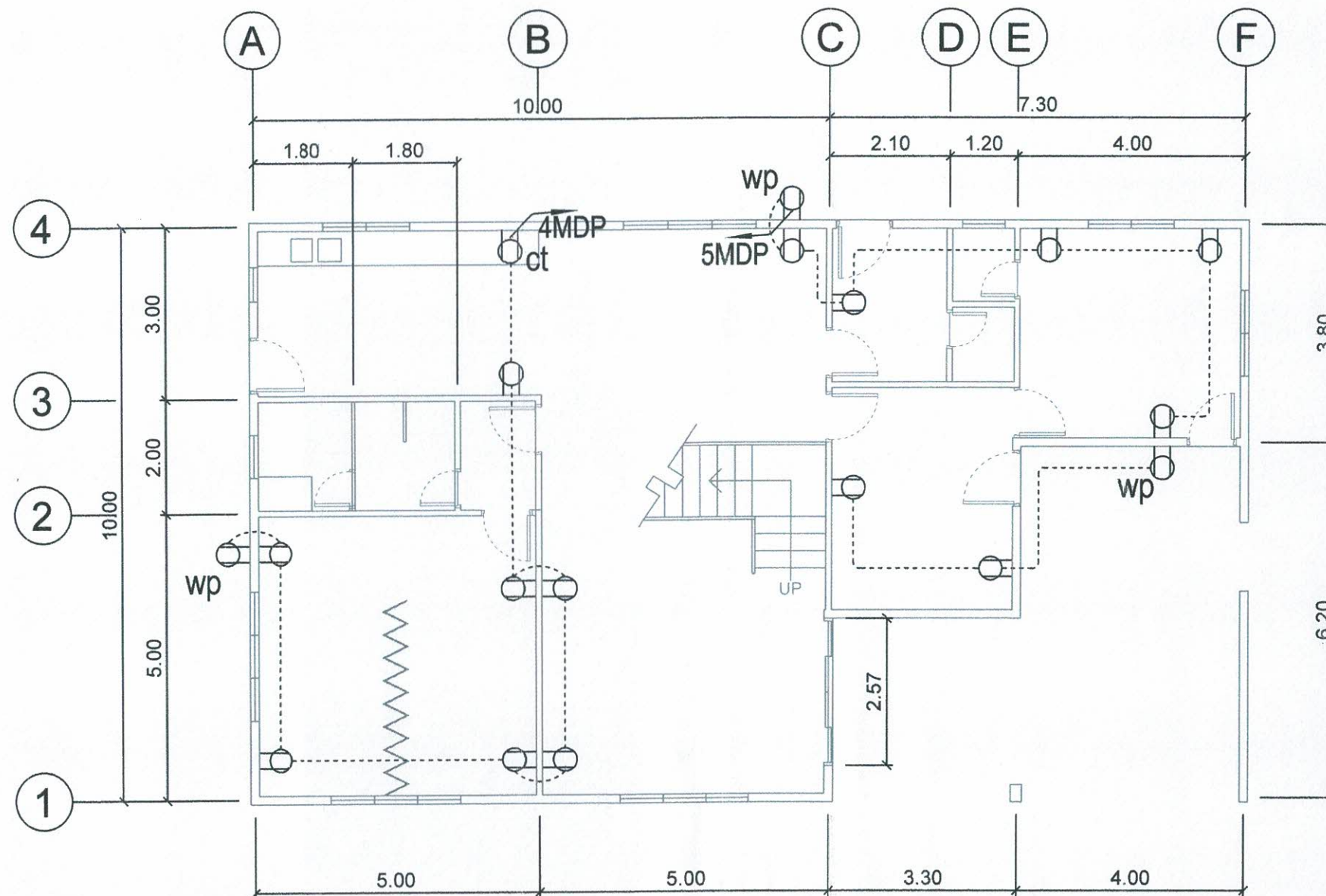
SECOND FLOOR PLAN LIGHTING LAYOUT

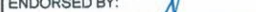
1
E 3

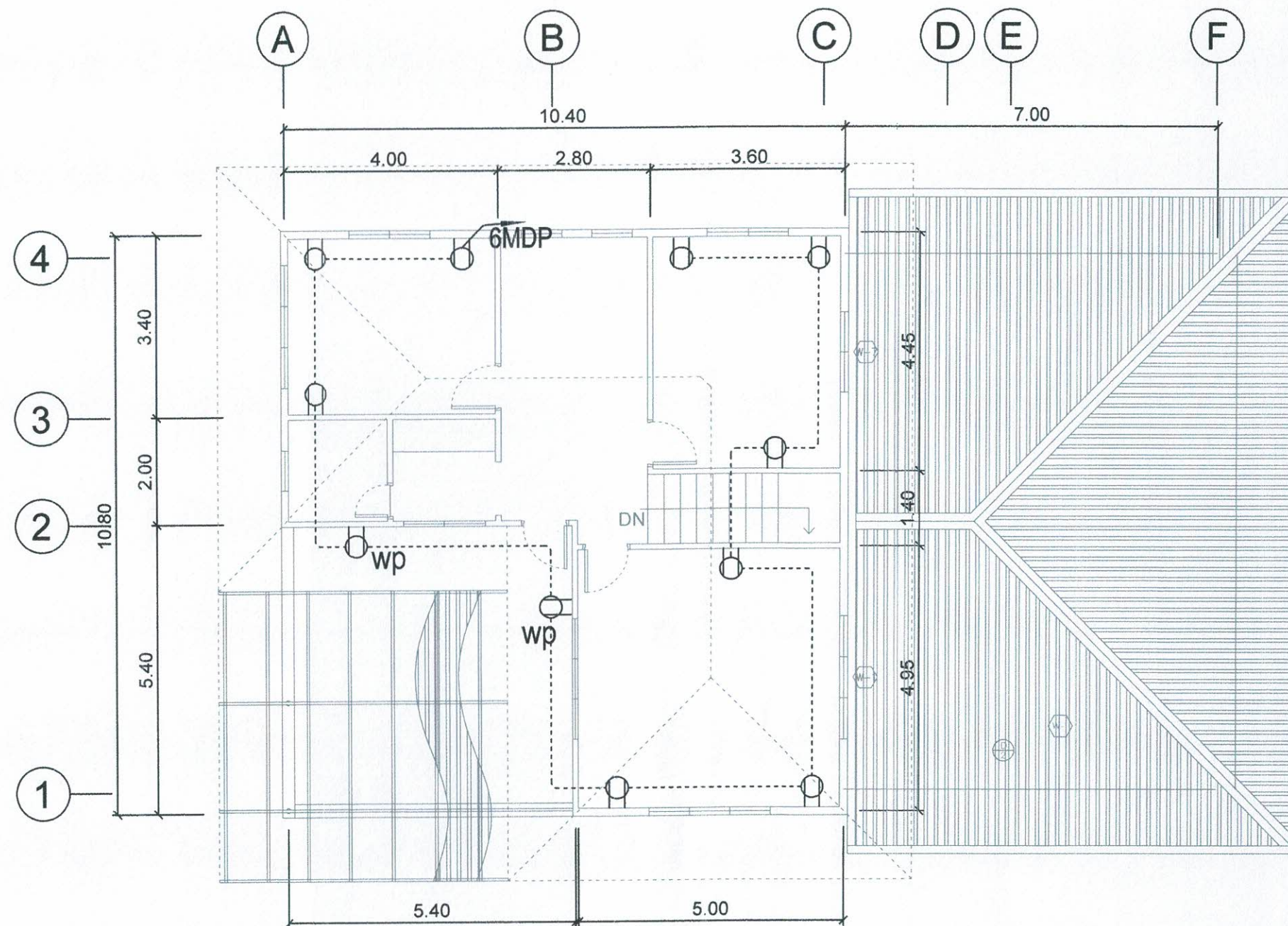
SCALE

1 : 100 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. R. SANCHEZ PDU	E. J. GALVEZ DEAN	R. J. R. SANCHEZ PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	M. J. D. TEJORA VPPD	J. X. B. NEPOMUCENO VPASS	M. D. ROBLES PRES	IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 3



	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	 R. J. R. SANCHEZ PDU OVPPD	 E. J. GALVEZ DEAN COM	 R. P. PEÑA PROF. ELEC. ENGINEER	 S. B. BAYOT JR. HEAD PDU	 O. B. DELOS REYES DIRECTOR PLANNING AND DEV'T. OFFICE	 M. J. D. TEPORA VPPD CVSU	 J. X. B. NEPOMUCENO VPASB CVSU	 H. D. ROBLES PRES CVSU	IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 4



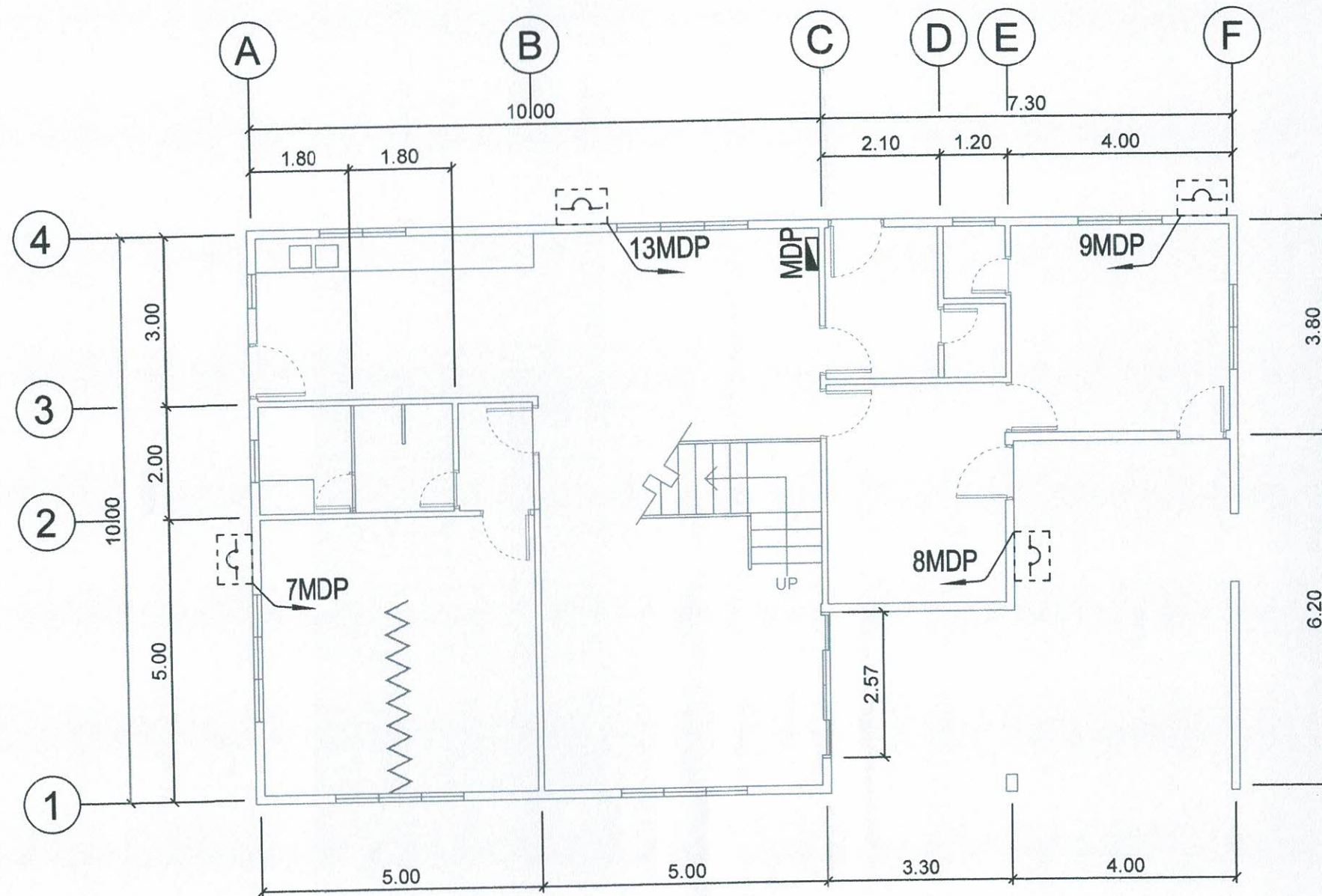
1
E 5

SECOND FLOOR PLAN POWER OUTLET LAYOUT

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. R. SANCHEZ PDU	 E. J. GALVEZ DEAN	 R. H. DE LA CRUZ PROF. ELEC. ENGINEER	 S. B. BAYOT JR. HEAD	 O. B. DE LOS REYES DIRECTOR	 M. J. D. TEPORA VPPD	 J. K. B. NAPOMUCENO VPASS	 M. D. ROBLES PRES	IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY	CAVITE STATE UNIVERSITY	E - 5

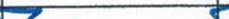


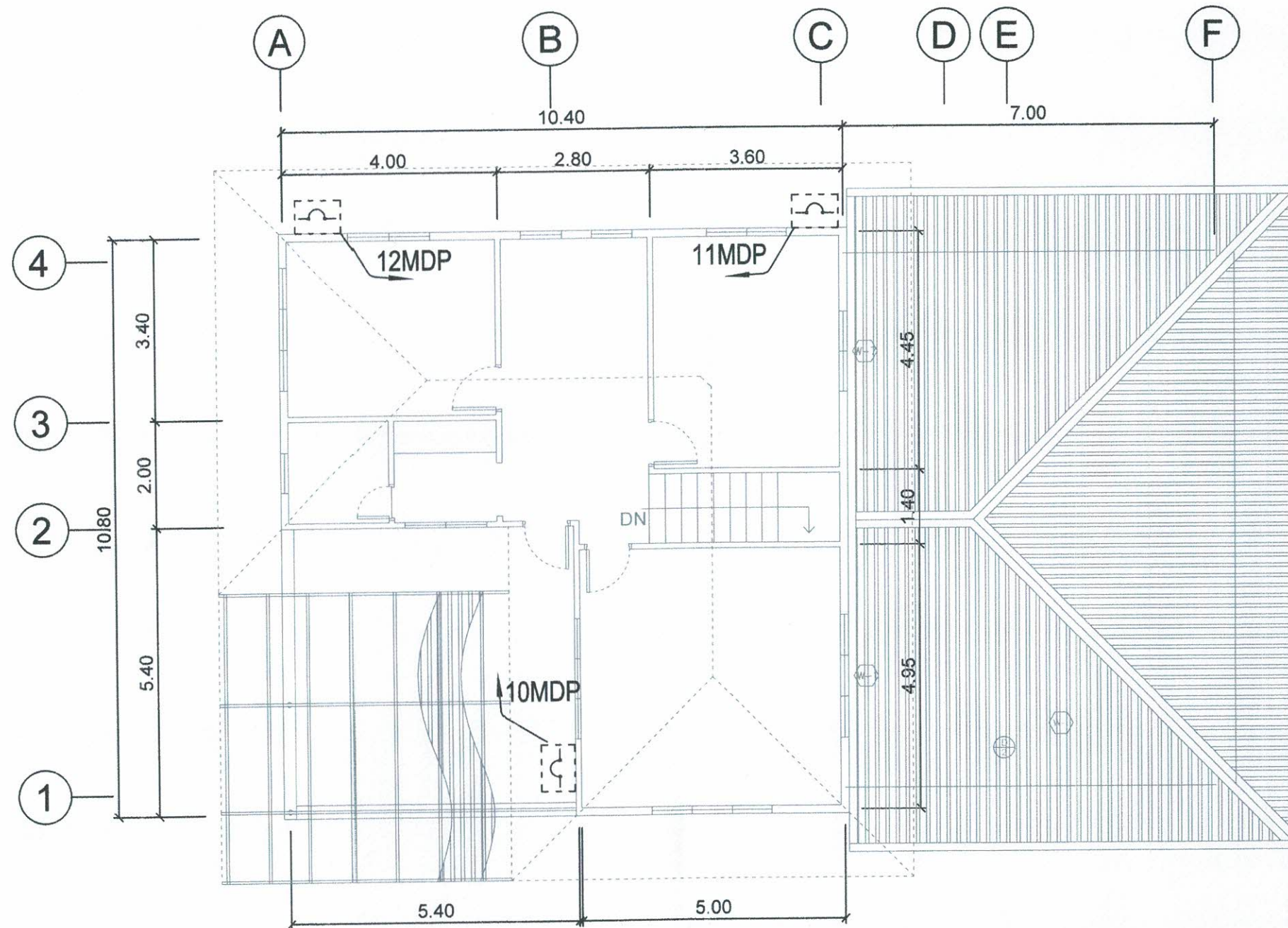
GROUND FLOOR PLAN ACU POWER LAYOUT

1
E 6

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. R. SANCHEZ PDU	 E. J. GALVEZ DEAN	 R. P. PERA PROF. ELEC. ENGINEER	 S. B. BAYOT JR. HEAD	 O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	 M. L. D. YEPORA VPPD	 J. X. B. WEROMUCENO VPASS	 H. D. ROBLES PRES	IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY

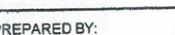
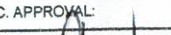


SECOND FLOOR PLAN ACU POWER LAYOUT

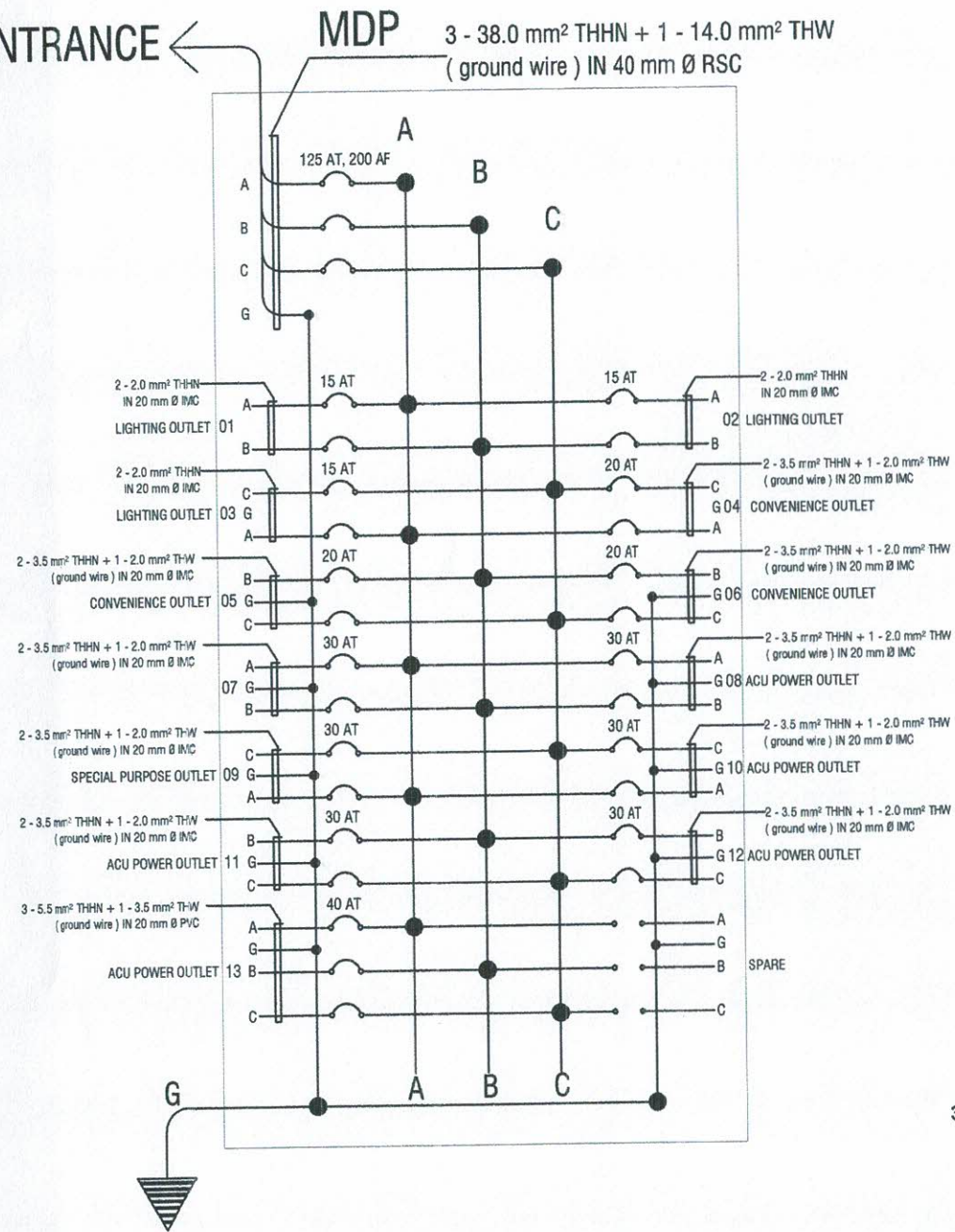
1
E7

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. R. SANCHEZ PDU OVPD	 E. J. GALVEZ DEAN COM	 R. P. PENA PROF. ELEC. ENGINEER	 S. B. BAYOT JR. HEAD PDU	 O. B. DELOS REYES DIRECTOR PLANNING AND DEV. OFFICE	 M. U. D. TEPORA VPPD CVSU	 J. X. B. NEPOMUCENO VPASS CVSU	 H. D. ROBLES PRES CVSU	IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 7

SERVICE ENTRANCE



1
E 8 SCALE NTS
PANEL BOARD DETAILS

SCHEDULE OF LOADS AND COMPUTATIONS:

PANEL : MDP (MAIN DISTRIBUTION PANEL)			CABLE: 3 - 38.0 SQMM THHN+ 1 - 14.0 SQMM THW CONDUIT: RSC, 40 MM DIA.						MAIN: 125AT, 200AF, 3P, 230V,MCCB ENCLOSURE : NEMA 1 MOUNTING: SURFACE				
PHASE: 3 VOLTS: 230			LOCATION: GROUND FLOOR, PREPARATION AREA										
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				CIRCUIT BREAKER RATING	SQ. MM THHN STRANDED CU. WIRE			SQ. MM THW(G) STRANDED CU. WIRE
					3ø	AB	CA	BC					
1	LIGHTING OUTLET	20	2000	230		8.70			15AT, 2P, 230V, MCCB	2 - 2.0		IMC, 20	1R,1B
1	LIGHTING OUTLET	16	1600	230		6.96			15AT, 2P, 230V, MCCB	2 - 2.0		IMC, 20	1R,1B
3	LIGHTING OUTLET	24	2400	230			10.43		15AT, 2P, 230V, MCCB	2 - 2.0		IMC, 20	1B,1Y
4	CONVENIENCE OUTLET	9	2250	230			9.78		20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	IMC, 20	1B,1Y,G
5	CONVENIENCE OUTLET	9	2250	230				9.78	20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	IMC, 20	1Y,1R,G
6	CONVENIENCE OUTLET	11	2750	230				11.96	20AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	IMC, 20	1Y,1R,G
7	ACU POWER OUTLET 2.0 HP	1	1500	230		12.00			30AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	IMC, 20	1R,1B,G
8	ACU POWER OUTLET 1.0 HP	1	800	230		8.00			30AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	IMC, 20	1R,1B,G
9	ACU POWER OUTLET 1.0 HP	1	800	230			8.00		30AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	IMC, 20	1B,1Y,G
10	ACU POWER OUTLET 2.0 HP	1	1500	230		12.00			30AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	IMC, 20	1B,1Y,G
11	ACU POWER OUTLET 1.0 HP	1	800	230				8.00	30AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	IMC, 20	1Y,1R,G
12	ACU POWER OUTLET 1.0 HP	1	800	230				8.00	30AT, 2P, 230V, MCCB	2 - 3.5	+ G 2.0	IMC, 20	1Y,1R,G
13	ACU POWER OUTLET 6.0 HP	1	4500	230	18				40AT, 3P, 230V, MCCB	3 - 5.5	+ G 3.5	IMC, 20	1R,1B,1Y,G
	SPARE												
TOTAL			23950	230	18	36	40	38	125AT, 3P, 230V, MCCB	3 - 38.0	+ G 14.0	RSC, 40	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:

$I_{FL} = \frac{[18 + (40 \times 1.732) + (125\% \times 1m)] \times DF}{\sqrt{3} \times 230} = 81.82 \text{ Amperes}$ $I_{CB} = \frac{[18 + (40 \times 1.732) + (250\% \times 1m)] \times DF}{\sqrt{3} \times 230} = 93.82 \text{ Amperes}$

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 THW IN 40 MM DIA. RSC

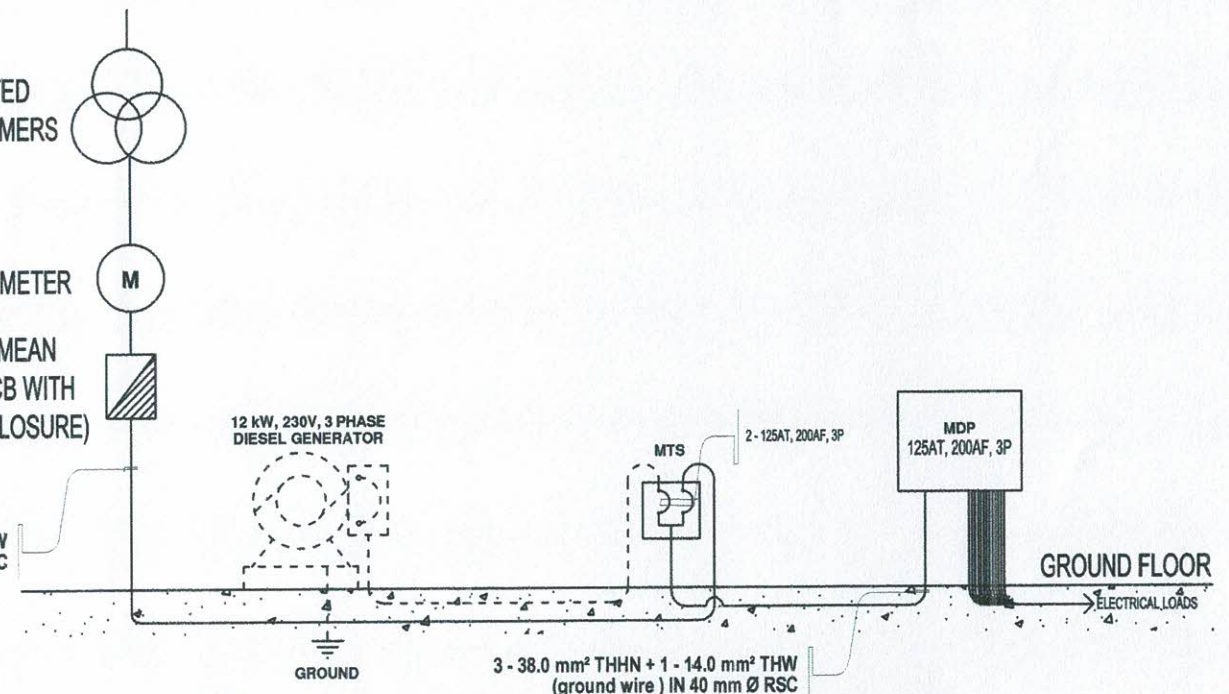
use: 125AT, 200AF, 3P, 230V,MCCB

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.

3-100 KVA POLE MOUNTED
DISTRIBUTION TRANSFORMERS

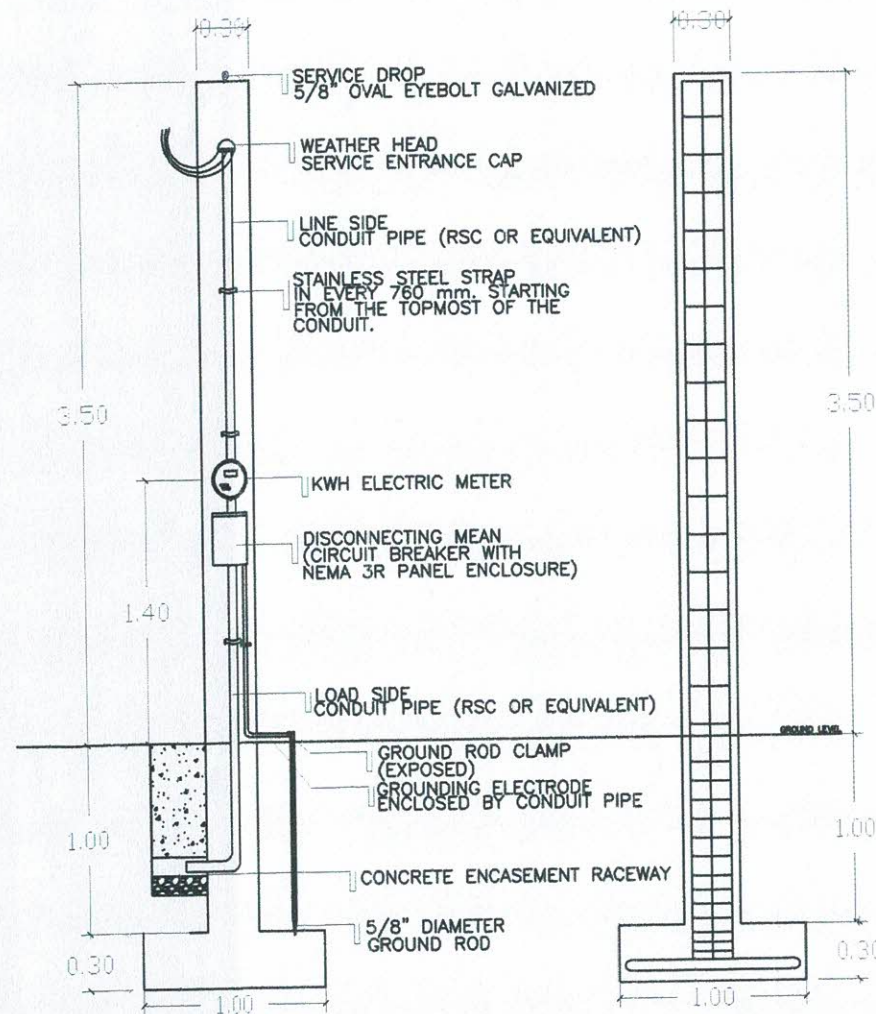
ELECTRIC KILOWATT METER
DISCONNECTING MEAN
(1-125 AT, 200 AF ECB WITH
NEMA 3R PANEL ENCLOSURE)

3 - 38.0 mm² THHN + 1 - 14.0 mm² THW
(ground wire) IN 40 mm Ø RSC



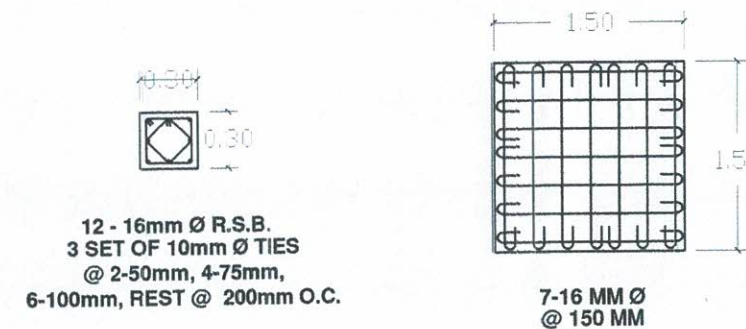
2
E 8 SCALE NTS
SINGLE LINE DIAGRAM

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:					IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 8
	R. J. R. SANCHEZ PDU OVPPD	E. J. GALVEZ DEAN COM	R. P. PERA PROF. ELEC. ENGINEER	S. B. BAYOT JR HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	M. J. D. TEPORA VPPD CVSU	J. A. B. MEDCOMUCENO VPASS CVSU	M. D. ROBLES PRES CVSU			



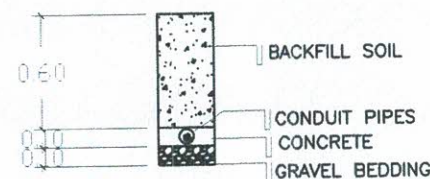
SCHEDULE OF FOOTINGS					
NAME	TYPE	THICKNESS	SIZE (LxW)	DEPTH	REINFORCEMENT
F1	ISOLATED	300 MM	1000 x 1000 MM	1300 MM	BOTTOM
					ALONG L
					ALONG W
F1	ISOLATED	300 MM	1000 x 1000 MM	1300 MM	7-16 MM Ø @ 150 MM

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.



1
E10 SCALE 1 : 40 MTS.

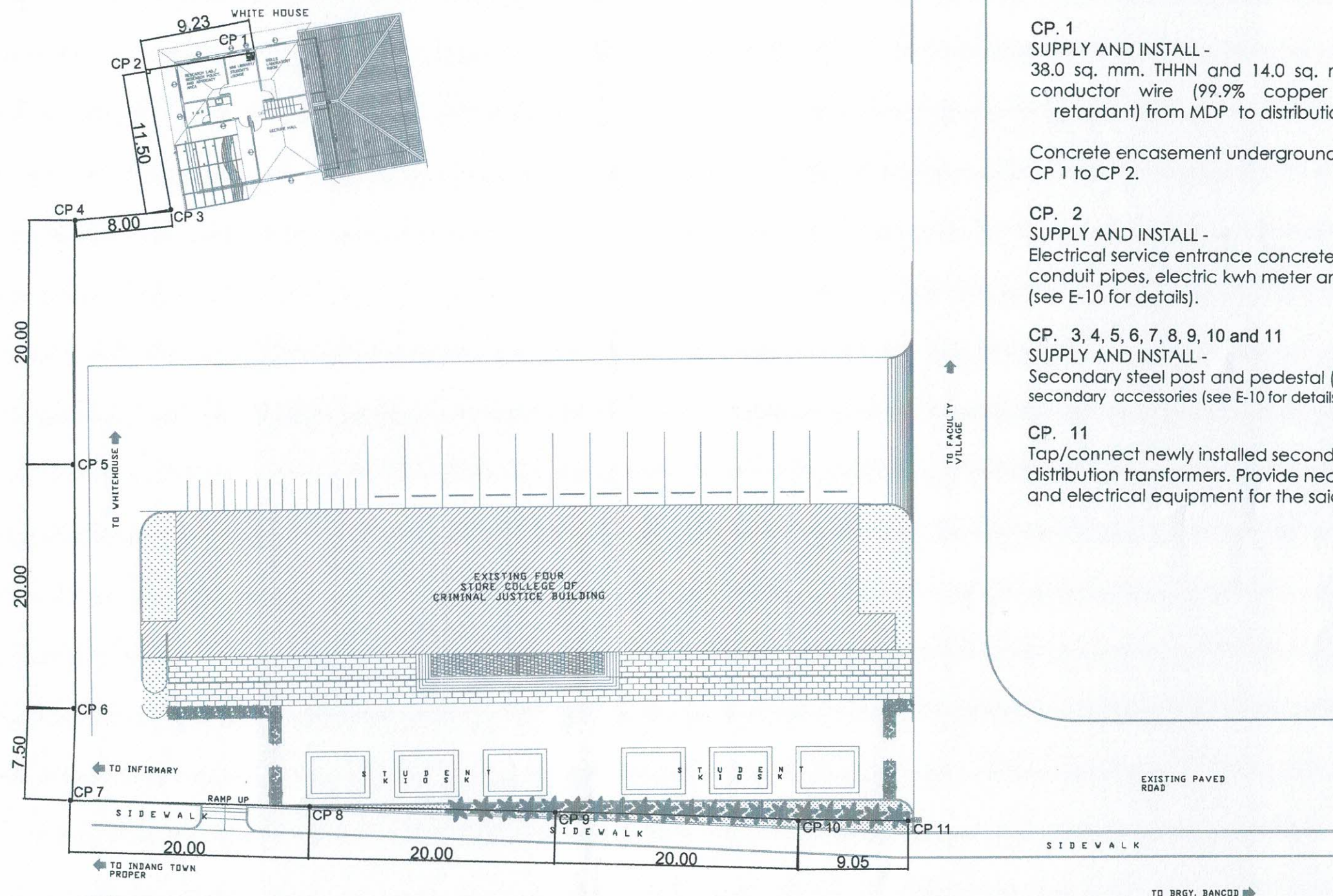
2
E10 SCALE 1 : 40 MTS.



3
E10 SCALE 1 : 40 MTS.

	PREPARED BY:		END USER:		REVIEWED BY:		ENDORSED BY:		REC. APPROVAL:		APPROVED BY:		PROJECT TITLE/ LOCATION:		IMPLEMENTING AGENCY:		SHT NO:	
	R. J. R. SANCHEZ PDU		E. J. GALVEZ DEAN		R. J. R. SANCHEZ PROF. ELEC. ENGINEER		S. B. BAYOT JR. HEAD		O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE		M. J. D. TEPORA VPPD		H. D. ROBLES PRES CVSU		IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS		CAVITE STATE UNIVERSITY E - 10	

LEGEND AND SYMBOL:	
	STEEL POST, SCHEDULE 40, 4" WITH PEDESTAL
	230 V SECONDARY WIRE 3 LINE WIRE + GROUND WIRE
	PANEL BOARD
	DISTRIBUTION TRANSFORMER
	SERVICE ENTRANCE CONCRETE PEDESTAL
CP 1	CONSTRUCTION POINTS



CONSTRUCTION POINTS

CP. 1
SUPPLY AND INSTALL -
38.0 sq. mm. THHN and 14.0 sq. mm. THW copper conductor wire (99.9% copper conductor, fire retardant) from MDP to distribution transformers.

Concrete encasement underground raceway from CP 1 to CP 2.

CP. 2
SUPPLY AND INSTALL -
Electrical service entrance concrete pedestal, conduit pipes, electric kwh meter and accessories (see E-10 for details).

CP. 3, 4, 5, 6, 7, 8, 9, 10 and 11
SUPPLY AND INSTALL -
Secondary steel post and pedestal (9 sets) including secondary accessories (see E-10 for details).

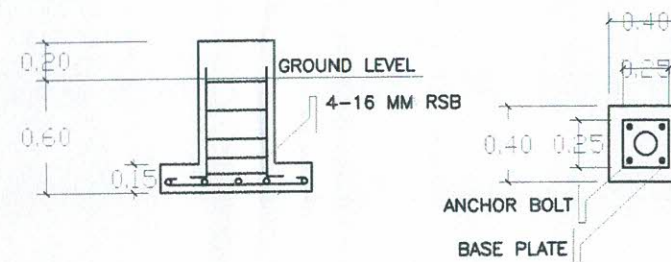
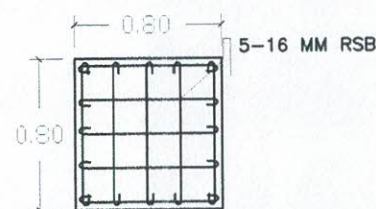
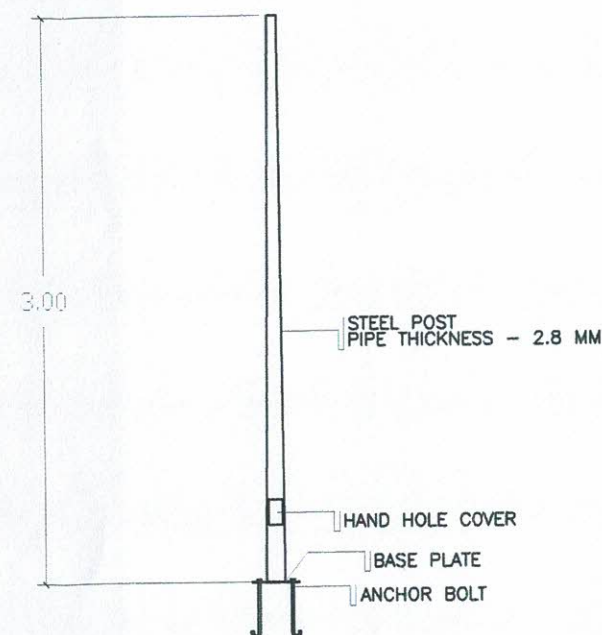
CP. 11
Tap/connect newly installed secondary line to distribution transformers. Provide necessary connectors and electrical equipment for the said electrical work.

1 ELECTRICAL SERVICE LINE LAYOUT

E 9 SCALE 1 : 400 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:		ENDORSED BY:	REC. APPROVAL:		APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. R. SANCHEZ PDU OVPPD	E. J. GALVEZ DEAN COM	R. P. DEHA PROF. ELEC. ENGINEER	S. B. BAYOT JR. HEAD PDU	O. B. DELOS REYES DIRECTOR PLANNING AND DEVT. OFFICE	M. J. D. TEPORA VPPD CVSU	J. X. B. NEROMUCENO VPASS CVSU	H. D. ROBLES PRES CVSU	IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 9

STEEL POST DETAILS						
BOTTOM	TOP	HEIGHT	NUMBER OF ANCHOR BOLT	SHAFT THICKNESS	BOLT LENGTH	BOLT DIAMETER
4"	2"	3.0 M	4	2.8 MM	12"	0.625"



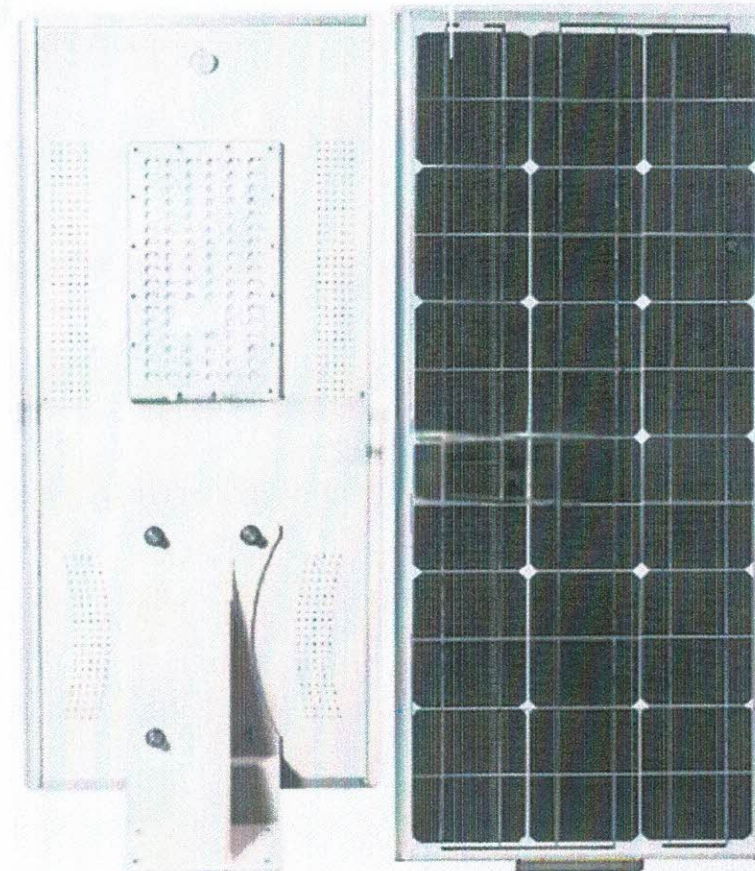
3
E11

COMPACT SOLAR STREET LIGHT SPECIFICATION

SCALE

NTS

SPECIFICATION :	
WATTAGE	20 WATTS
SOLAR PANEL	MONOCRYSTALLINE SILICON
LIGHT OUTPUT	2,200lm/20W
SHELL MATERIAL	ALUMINUM ALLOY
COLOR TEMPERATURE	6500 K DAYLIGHT
CHARGING TIME	6-7 HOURS (DIRECT SUNLIGHT)
BATTERY TYPE	BUILT-IN LIFE PO4 LITHIUM IRON BATTERY
WORKING MODE	TIME CONTROL
LIFE SPAN	≥ 50,000 HOURS
IP RATING	IP 65
MOUNTING HEIGHT	3 METERS



1 STEEL POST DETAILS FOR STREET LIGHTS
E11 SCALE 1:40 MTS

2 CONCRETE PEDESTAL DETAILS FOR STEEL POST
E11 SCALE 1:40 MTS



PREPARED BY: R. J. R. SANCHEZ PDU	END USER: E. J. GALVEZ DEAN	REVIEWED BY: R. J. R. SANCHEZ PROF. ELEC. ENGINEER	ENDORSED BY: S. B. BAYOT JR. HEAD	REC. APPROVAL: Q. B. DELOS REYES DIRECTOR	REC. APPROVAL: M. J. D. TEPORA VPPD	APPROVED BY: H. D. ROBLES PRES	PROJECT TITLE/ LOCATION: IMPROVEMENT OF WHITE HOUSE CONVERTED TO CENTER FOR PUBLICATION AND PUBLIC HEALTH UNDER THE COLLEGE OF MEDICINE CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: E - 11
---	-----------------------------------	--	---	---	---	--------------------------------------	--	--	-------------------