
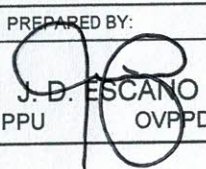
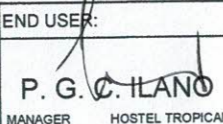
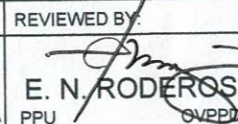


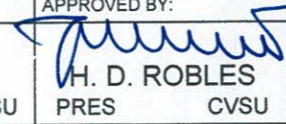


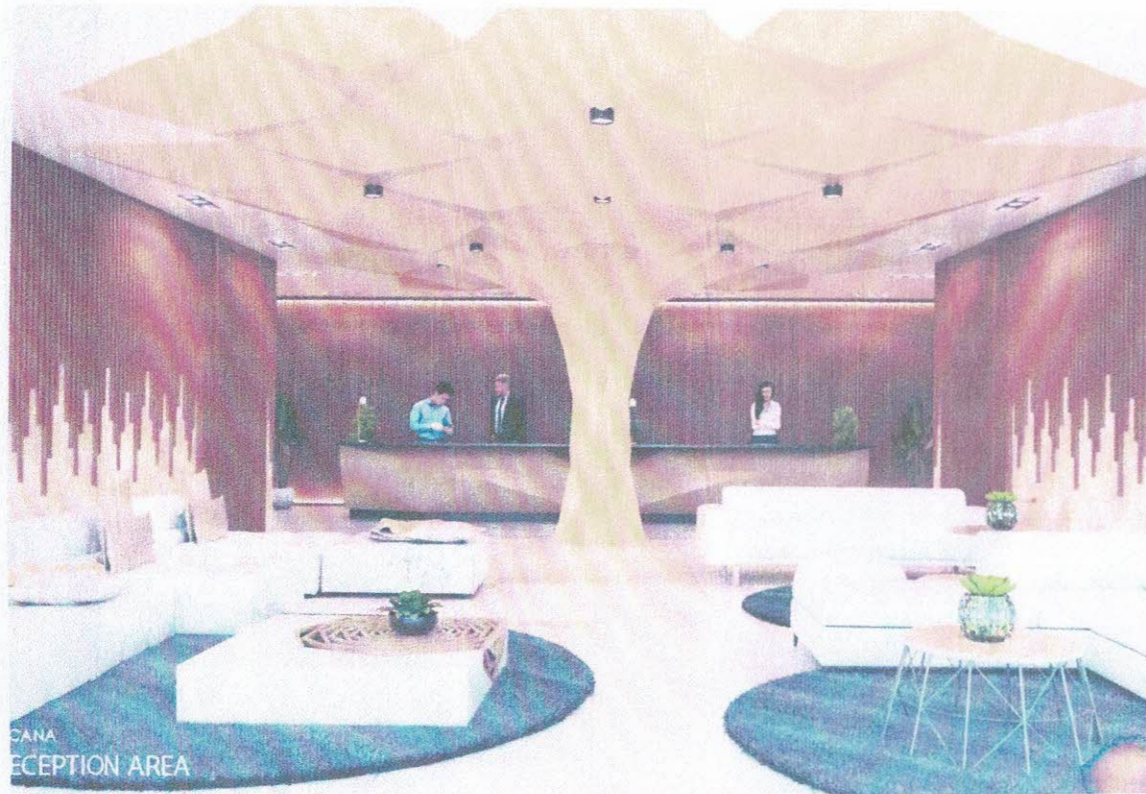


CANA  
R PERSPECTIVE

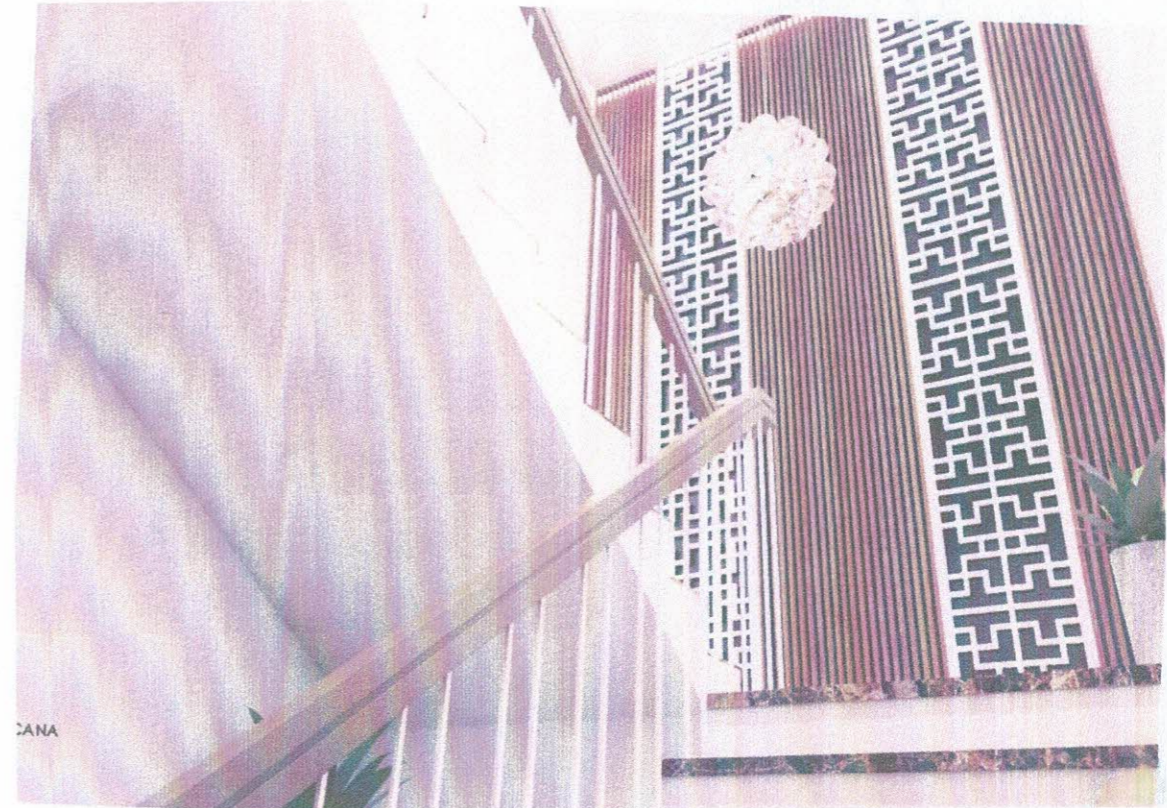
# EXTERIOR PERSPECTIVE

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	 <b>J. D. ESCANO</b> PPU OVPD	 <b>P. G. C. ILANO</b> MANAGER HOSTEL TROPICANA	 <b>E. N. RODEROS</b> PPU OVPD	 <b>O. B. DELOS REYES</b> DIRECTOR PLANNING OFFICE	 <b>M. J. D. TEPORA</b> VPPD CVSU	VPASS CVSU	 <b>H. D. ROBLES</b> PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY

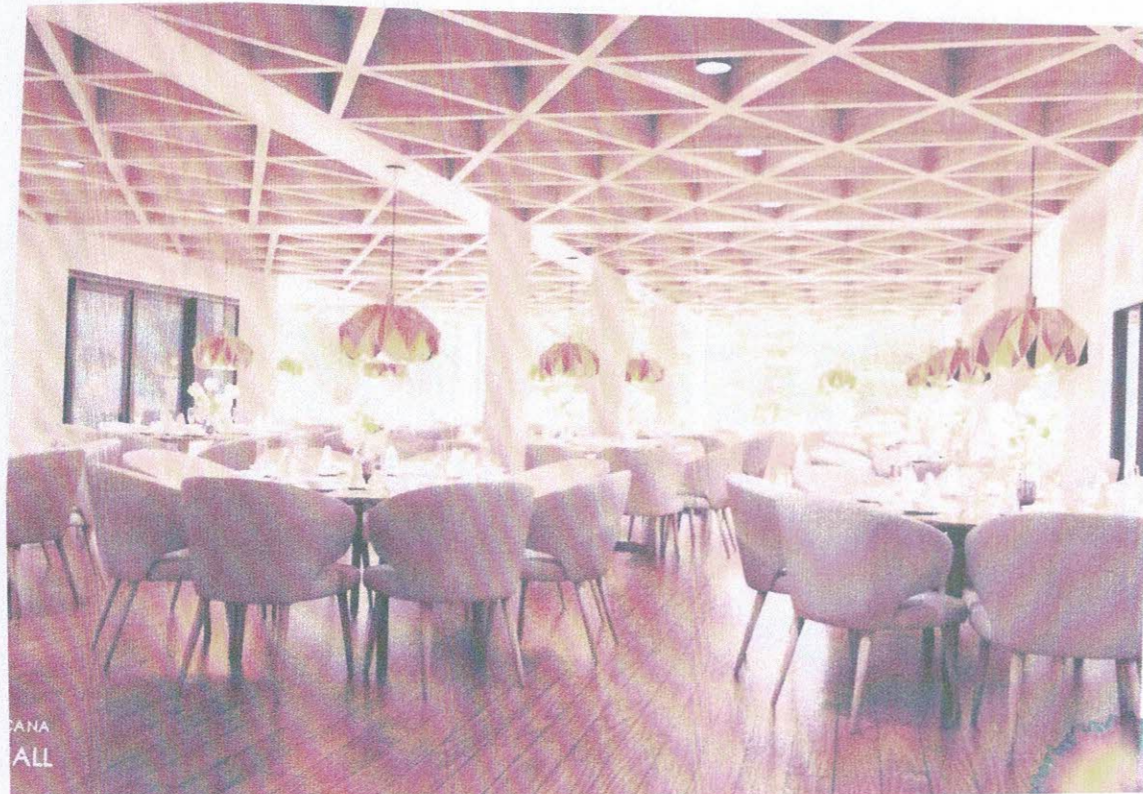




RECEPTION AREA




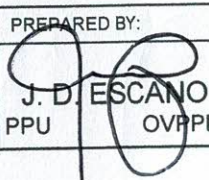

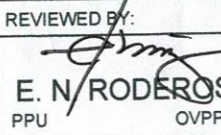
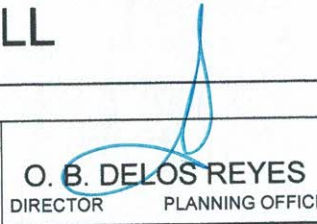
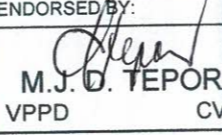
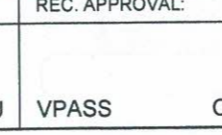
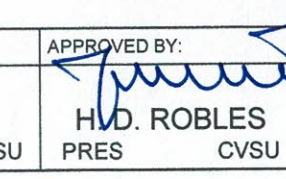
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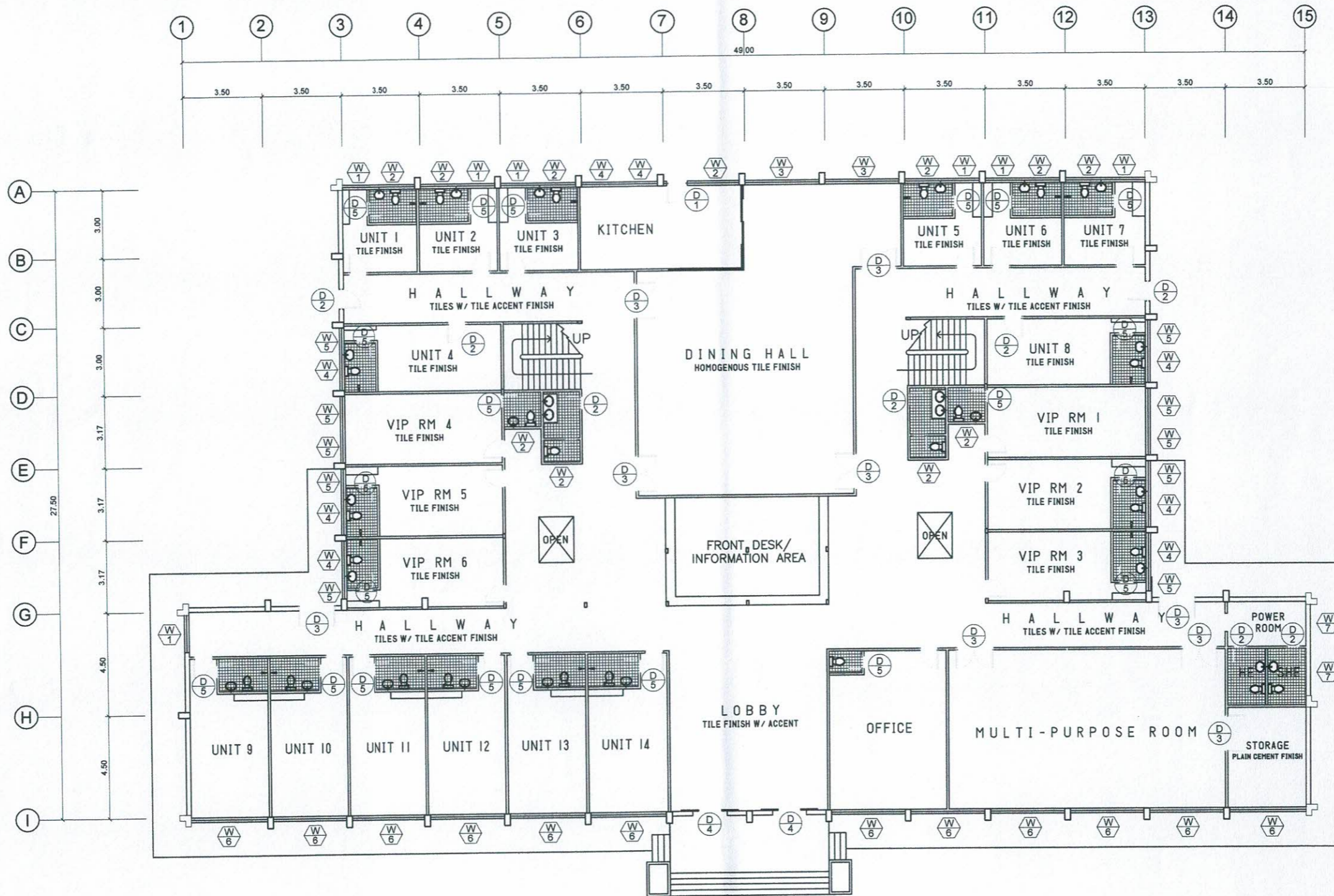
DINING HALL



CONFERENCE ROOM

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
	 <b>J. D. ESCANO</b> PPU OVRPPD	 <b>P. G. C. ILANO</b> MANAGER HOSTEL TROPICANA	 <b>E. N. RODEROS</b> PPU OVRPPD	 <b>O. B. DE LOS REYES</b> DIRECTOR PLANNING OFFICE	 <b>M. J. D. TEPORA</b> VPPD CVSU	 VPASS CVSU	 <b>H. D. ROBLES</b> PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY

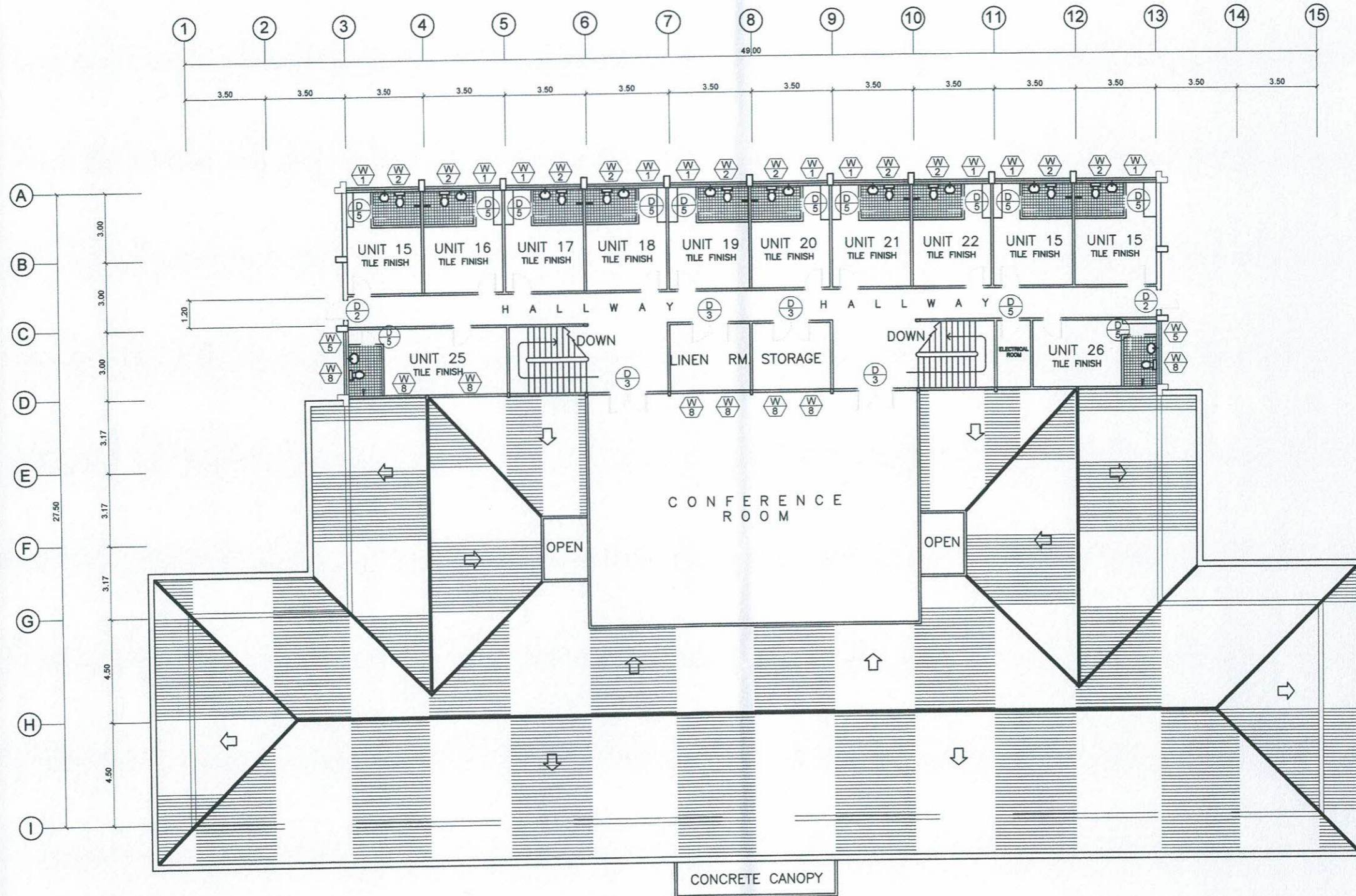





1
A3
**GROUND FLOOR PLAN**  
 SCALE 1 : 200 MTS.

	PREPARED BY: <b>J. D. ESCANO</b> PPU OVRPD	END USER: <b>P. G. C. ILANO</b> MANAGER HOSTEL TROPICANA	REVIEWED BY: <b>E. N. RODEROS</b> PPU OVRPD	ENDORSED BY: <b>O. B. DELOS REYES</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <b>M. J. D. TEPORA</b> VPPD CVSU	APPROVED BY: <b>H. D. ROBLES</b> PRES CVSU	PROJECT TITLE/ LOCATION: REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: A - 3
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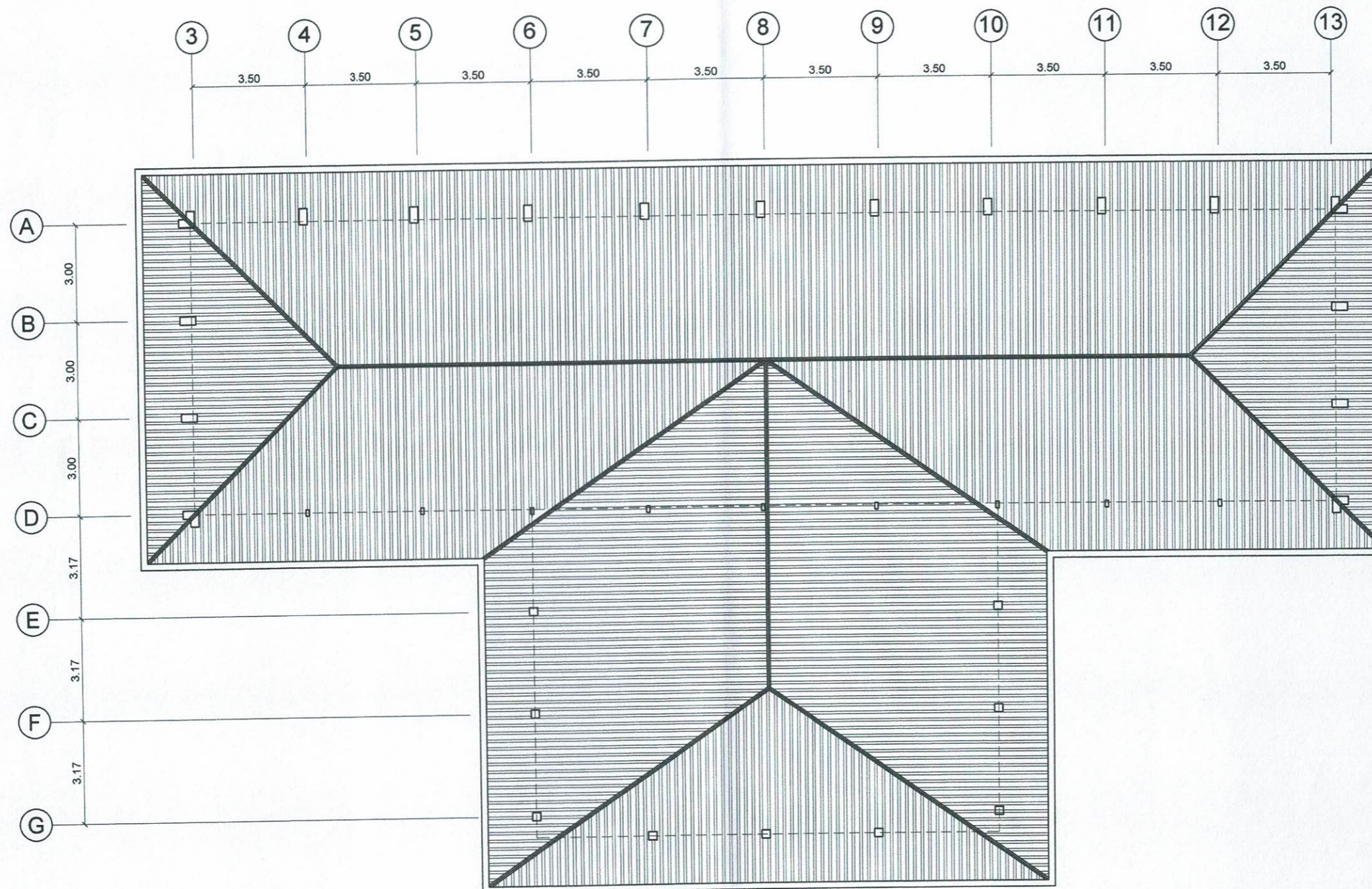




1
SECOND FLOOR PLAN  
A/4
SCALE
1 : 200 MTS.

	PREPARED BY: <b>J. D. ESCANO</b> PPU OVPD	END USER: <b>P. G. GILANO</b> MANAGER HOSTEL TROPICANA	REVIEWED BY: <b>E. N. RODEROS</b> PPU OVPPD	ENDORSED BY: <b>O. B. DELOS-REYES</b> DIRECTOR PLANNING OFFICE	REC. APPROVAL: <b>M. J. D. TEPORA</b> VPASS CVSU	APPROVED BY: <b>H. D. ROBLES</b> PRES CVSU	PROJECT TITLE/ LOCATION: REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: A - 4
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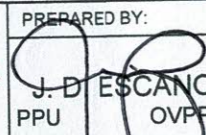
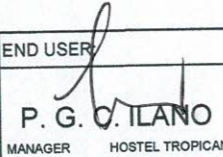
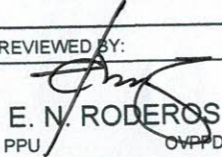
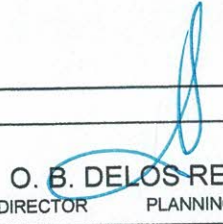
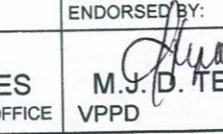
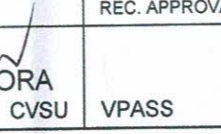


1  
A5

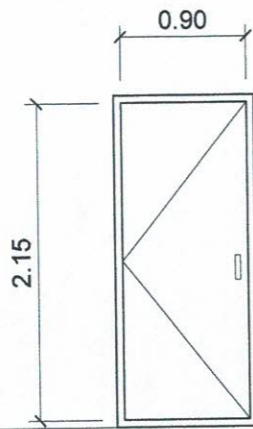
ROOF PLAN

SCALE

1 : 150 MTS.

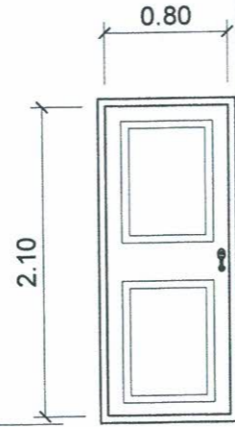
	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	 <b>J. D. ESCANO</b> PPU OVPD	 <b>P. G. O. ILANO</b> MANAGER HOSTEL TROPICANA	 <b>E. N. RODEROS</b> PPU OVPD	 <b>O. B. DELOS-REYES</b> DIRECTOR PLANNING OFFICE	 <b>M. J. D. TEPORA</b> VPPD CVSU	VPASS CVSU	 <b>H. D. ROBLES</b> PRES CVSU	<b>REHABILITATION OF HOSTEL TROPICANA</b> CAVITE STATE UNIVERSITY MAIN CAMPUS	<b>CAVITE STATE UNIVERSITY</b>





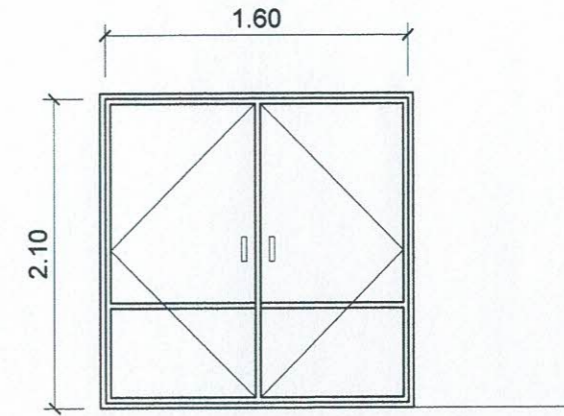
**D**  
**1**

FLUSH DOOR COMPLETE W/ HEAVY DUTY ACCESSORIES W/  $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
1 SET



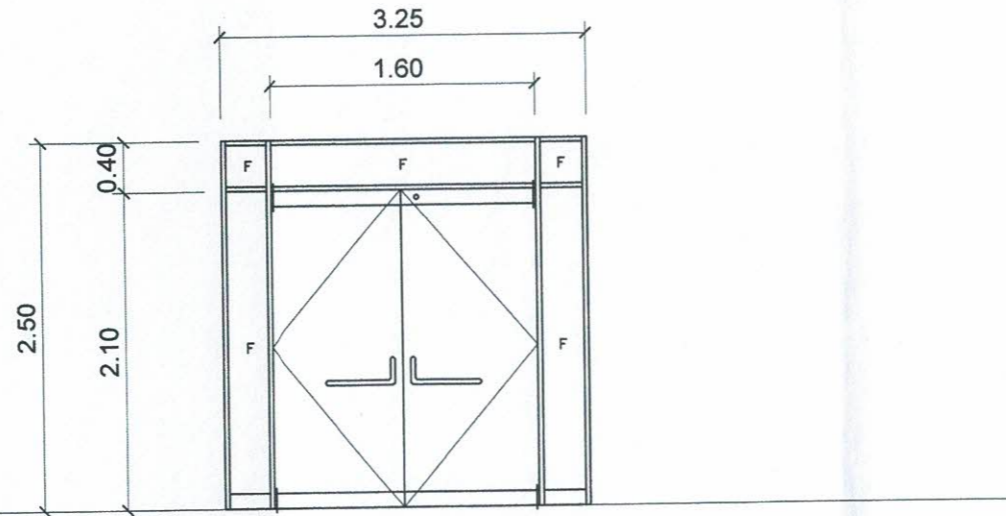
**D**  
**2**

SOLID STEEL DOOR COMPLETE W/ ALL HEAVY DUTY ACCESSORIES  
6 SETS



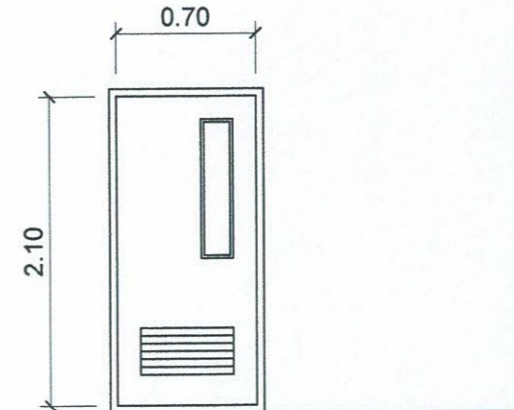
**D**  
**3**

DOUBLE SWING GLASS DOOR COMPLETE W/ HEAVY DUTY ACCESSORIES W/  $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
12 SETS



**D**  
**4**

DOUBLE SWING GLASS DOOR WITH FIXED GLASS COMPLETE W/ HEAVY DUTY ACCESSORIES W/  $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
2 SETS



**D**  
**5**

0.70M X 2.10M STEEL FLUSH DOOR COMPLETE W/ HEAVY DUTY ACCESSORIES  
34 SETS

**1**  
**A/6**

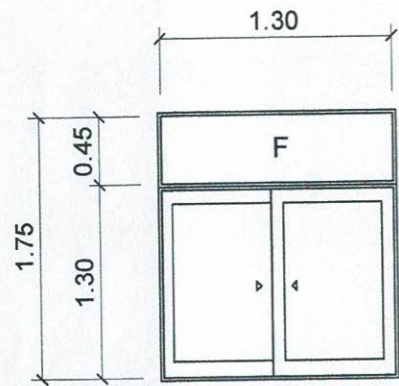
**SCHEDULE OF DOORS**

SCALE

1 : 50 MTS.

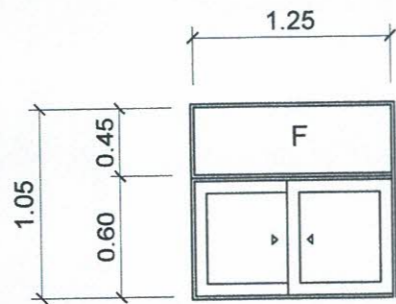
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	 <b>J. D. ESCANO</b> PPU OVPPD	 <b>P. G. GILANO</b> MANAGER HOSTEL TROPICANA	 <b>E. N. RODEROS</b> PPU SVPPD	 <b>O. B. DELOS REYES</b> DIRECTOR PLANNING OFFICE	 <b>M. J. D. TEPORA</b> VPPD CVSU	VPASS CVSU	 <b>H. D. ROBLES</b> PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	<b>CAVITE STATE UNIVERSITY</b>





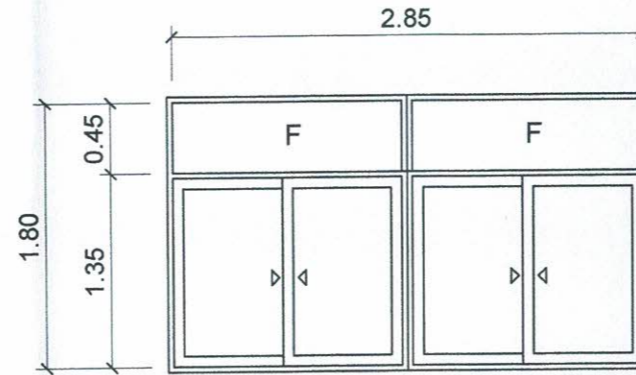
W  
1

ALUMINUM FRAME SLIDING WINDOW COMPLETE W/ALL ACCESSORIES W/ $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
17 SETS



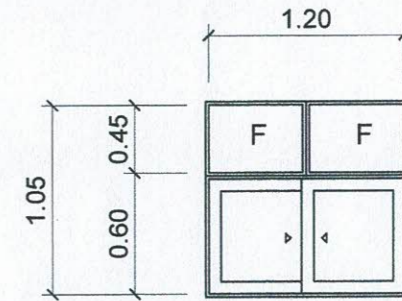
W  
2

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19 SETS



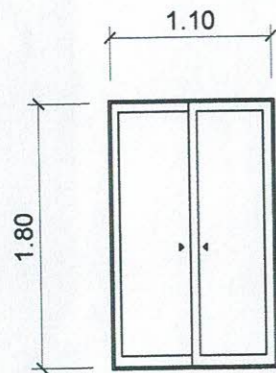
W  
3

ALUMINUM FRAME SLIDING WINDOW COMPLETE W/ALL ACCESSORIES W/ $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
2 SETS



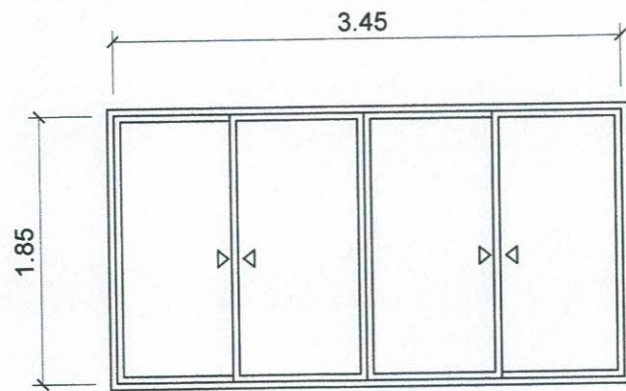
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ALUMINUM FRAME SLIDING WINDOW COMPLETE W/ALL ACCESSORIES W/ $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
8 SETS



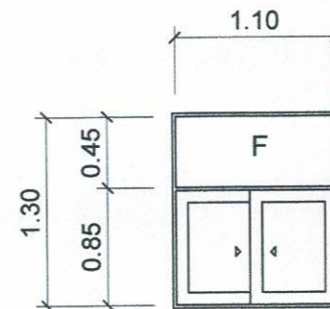
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ALUMINUM FRAME SLIDING WINDOW COMPLETE W/ALL ACCESSORIES W/ $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
9 SETS



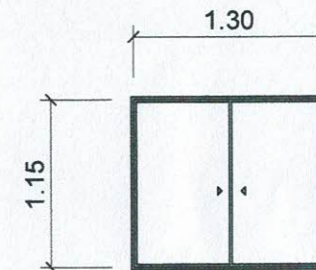
W  
6

ALUMINUM FRAME SLIDING WINDOW COMPLETE W/ALL ACCESSORIES W/ $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
14 SETS



W  
7

ALUMINUM FRAME SLIDING WINDOW COMPLETE W/ALL ACCESSORIES W/ $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
2 SETS



W  
8


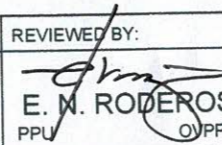
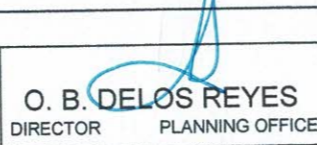
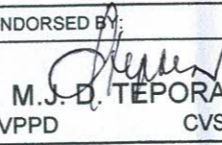
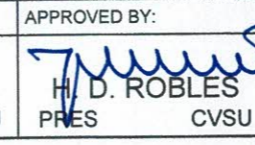
ALUMINUM FRAME SLIDING WINDOW COMPLETE W/ALL ACCESSORIES W/ $\frac{3}{8}$ " THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING  
10 SETS

1  
A7

SCHEDULE OF WINDOWS

SCALE

1 : 50 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
 J. D. ESCANO PPU OVPD	P. G. C. ILANO MANAGER HOSTEL TROPICANA	 E. M. RODEROS PPU OVPD	 O. B. DELOS REYES DIRECTOR PLANNING OFFICE	 M. J. D. TEPORA VPPD CVSU	VPASS CVSU	 H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY A - 7



GENERAL NOTES AND SPECIFICATIONS:

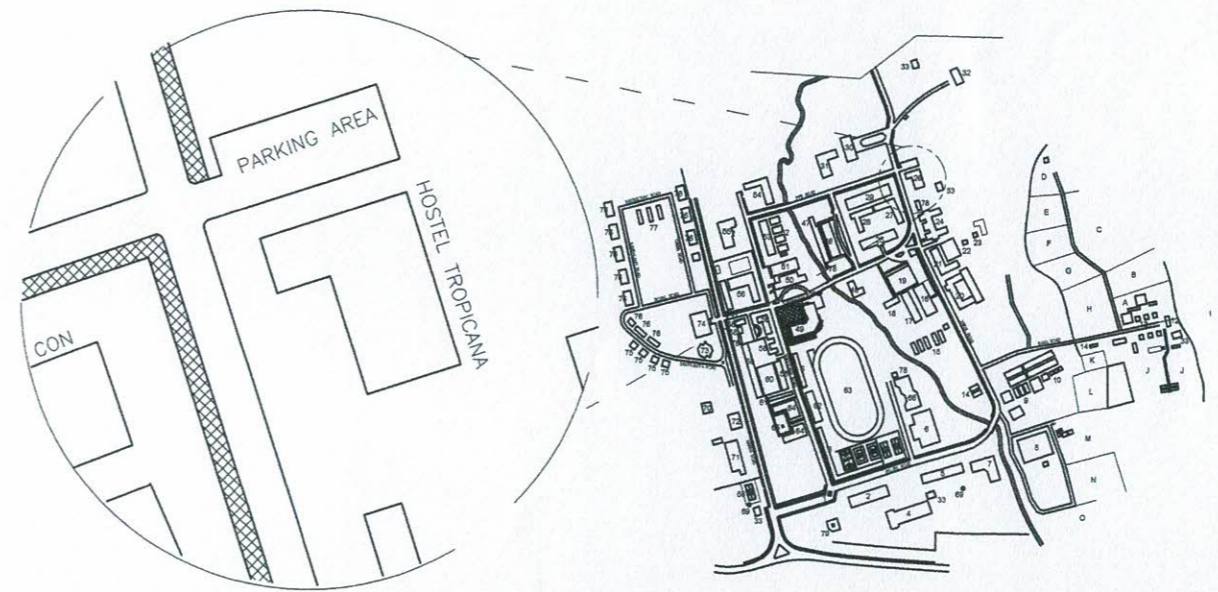
- ALL WORK HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- ELECTRICAL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, MUNICIPAL/CITY LAWS AND ORDINANCES AND THE REGULATIONS OF THE LOCAL POWER AND TELEPHONE COMPANY.
- THE JOB SHALL BE EXECUTED 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.
- 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.
- SERVICE VOLTAGE TO THE BUILDING FROM THE POWER SOURCE SHALL BE 230V.
- SERVICE ENTRANCE WIRING SHALL BE RIGID STEEL CONDUIT (RSC).
- FEEDER WIRING SHALL BE ELECTRICAL METALLIC TUBING (EMT).
- BRANCH CIRCUIT WIRING ELECTRICAL METALLIC TUBING (EMT).
- BRANCH CIRCUIT WIRING EMBEDDED IN CONCRETE SHALL BE IN PVC PIPE WITH ADEQUATE GROUND WIRE FOR EQUIPMENT GROUNDING.
- LIGHT SWITCHES SHALL BE 15A, 230VAC.
- ALL MATERIALS SHALL BE BRAND NEW AND OF APPROVED TYPE FOR LOCATION AND PURPOSE INTENDED.
- DEVICES, FIXTURES LOCATED OUTDOOR SHALL BE WEATHERPROOF TYPE.
- MOUNTING HEIGHTS ARE:
 

A. LIGHT SWITCHES	1.40M ABOVE FLOOR FINISH
B. CONVENIENCE OUTLETS	0.30M ABOVE FLOOR FINISH
C. COUNTER TOP C.O.	0.30M 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
- ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR DECISION.
- THE ENTIRE WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF DULY REGISTERED ELECTRICAL ENGINEER.
- REFER TO SHEETS E-1 TO E-7 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.
- REFER TO LOAD SCHEDULE FOR THE RATING OF INDIVIDUAL ENCL, ACB'S IN NEMA-3R.
- ALL ELECTRICAL CONDUITS AND TELEPHONE SERVICE ENTRANCE THAT INSTALLED BELOW THE GROUND SHALL BE IN CONCRETE ENCASEMENT.
- ANY DEVICES OR EQUIPMENT NOT REFLECTED OR SHOWN ON PLANS BUT REQUIRED TO COMPLETE THE SYSTEM MUST BE INCLUDED ON SCOPE OF WORK.
- REQUEST FOR TEMPORARY POWER INTERRUPTION SHOULD BE COORDINATED TO OWNER'S REPRESENTATIVE OR DESIGNER.

LEGEND AND SYMBOLS:

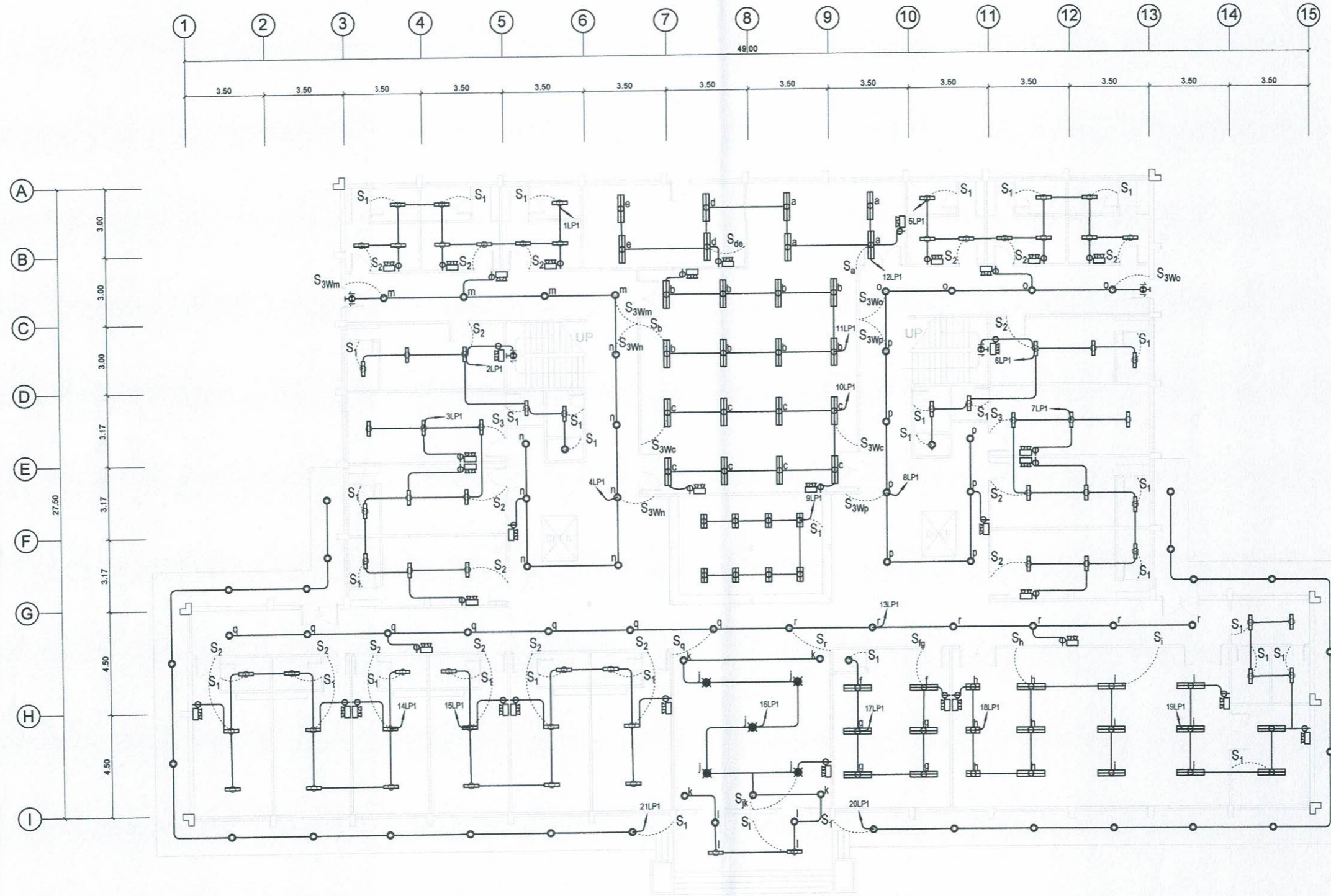
	LED LIGHT BULB, 9W w/ 6" SURFACE TYPE VERTICAL ROUND FIXTURE (PL)		CEILING FAN OUTLET
	LED SPOT LIGHT, 100W, IP65 (SL)		TWO GANG CONVENIENCE OUTLET
	1-9W LIGHT TUBE, T5 w/ FIXTURES 2 FT. LENGTH (FL)		THREE PIN ACU OUTLET
	2-9W LIGHT TUBE, T5 w/ FIXTURES 2 FT. LENGTH (FL)		ACU WINDOW TYPE
	1-18W LIGHT TUBE, T8 w/ FIXTURES 4 FT. LENGTH (FL)		ACU CONDENSER OUT DOOR UNIT WITH NEMA 3R CIRCUIT BREAKER
	2-18W LIGHT TUBE, T8 w/ FIXTURES 4 FT. LENGTH (FL)		FLOOR/WALL MOUNTED ACU WALL/FLOOR MOUNTED, SPLIT TYPE, INDOOR UNIT
	EMERGENCY LIGHT (EL)		2.0 mm² THHN
	LED EXIT/FIRE EXIT SIGN (FEL)		3.5 mm² THHN
	S <sub>1</sub> , S <sub>A</sub> ONE GANG SWITCH		CIRCUIT HOMERUN
	S <sub>2</sub> , S <sub>AB</sub> TWO GANG SWITCH		1LPP1 CIRCUIT NUMBER
	S <sub>3</sub> THREE GANG SWITCH		PANEL BOARD
	S <sub>3W</sub> THREE WAY SWITCH		SERVICE ENTRANCE
	IO COUNTER TOP TWO GANG CONVENIENCE OUTLET		KILOWATT HOUR METER

LOCATION MAP:


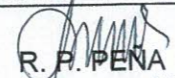





	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. R. SANCHEZ PPU OVRPD	P. G. CALANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU OVRPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY

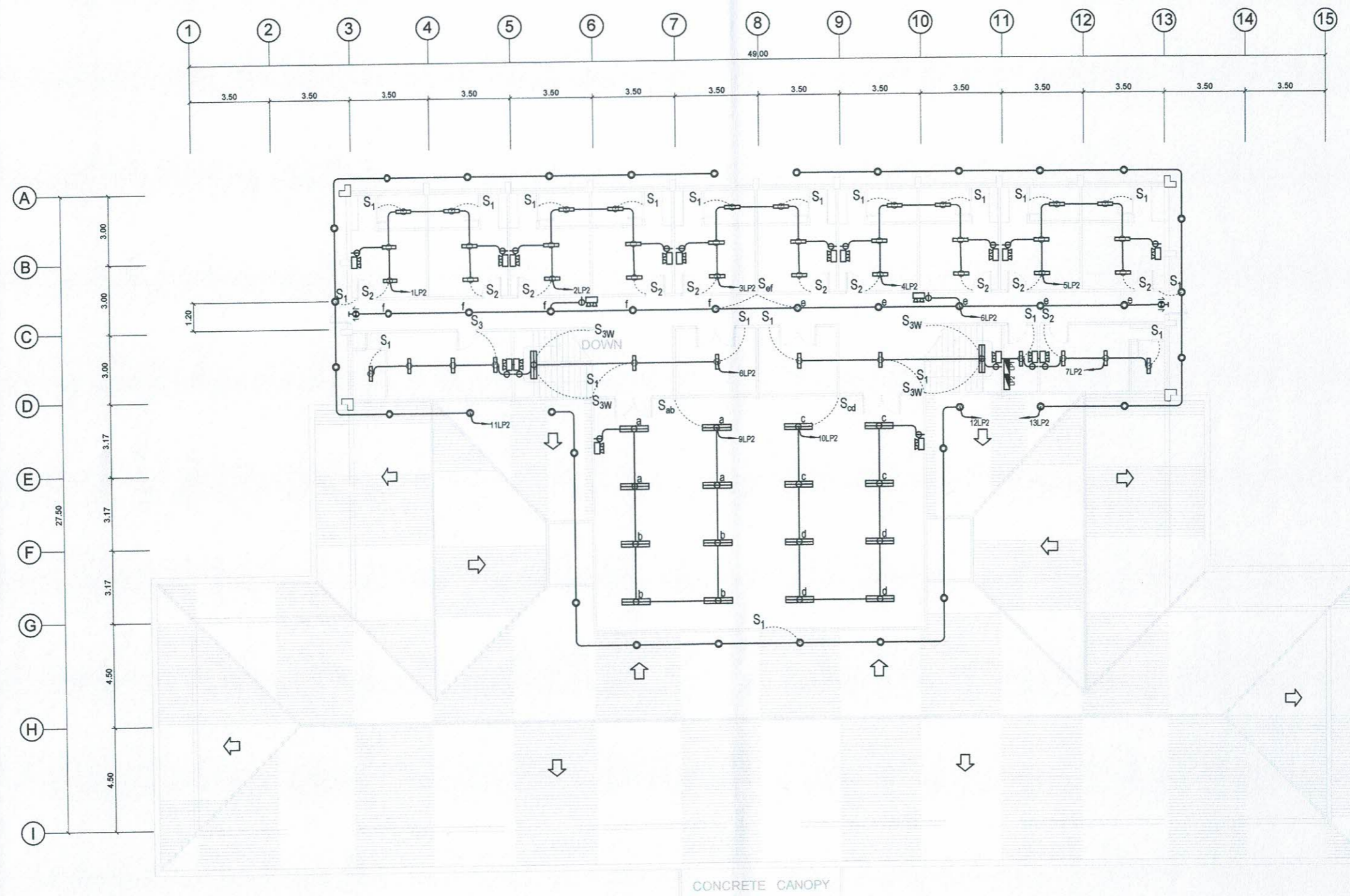





**1** GROUND FLOOR LIGHTING LAYOUT  
 E2 SCALE 1 : 200 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
 R. J. R. SANCHEZ PPU OVPD	P. G. C. ILANO MANAGER HOSTEL TROPICANA	 R. P. PEÑA PPU OVPPD	 O. B. DELOS REYES DIRECTOR PLANNING OFFICE	 M. J. D. TEPORA VPPD CVSU	VPASS CVSU	 H. D. ROBLES PVES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY E - 2

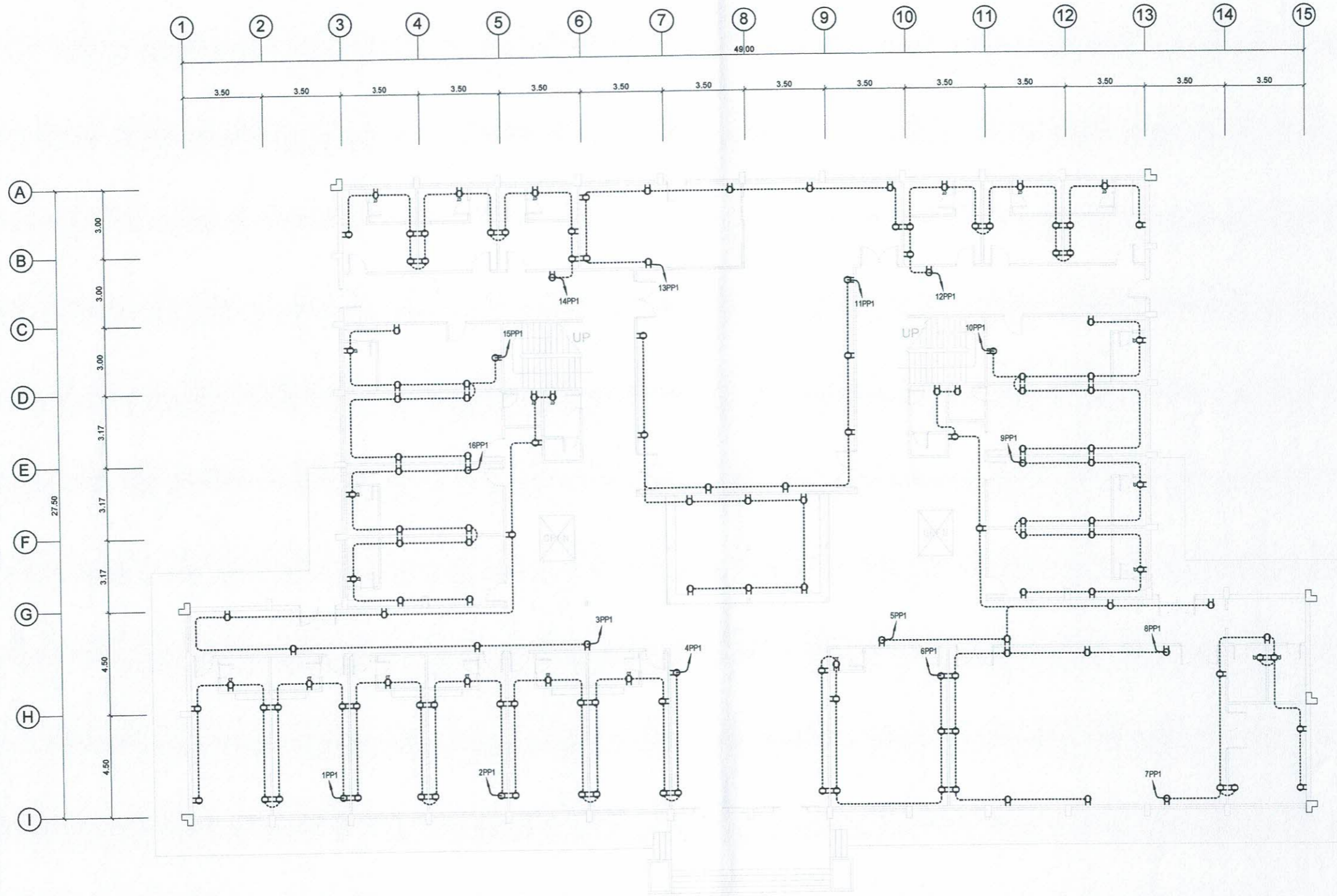





**1** SECOND FLOOR LIGHTING LAYOUT  
**E3** SCALE 1 : 200 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
 R. J. R. SANCHEZ PPU	P. G. C. ILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA OVPDP	Q. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY E - 3

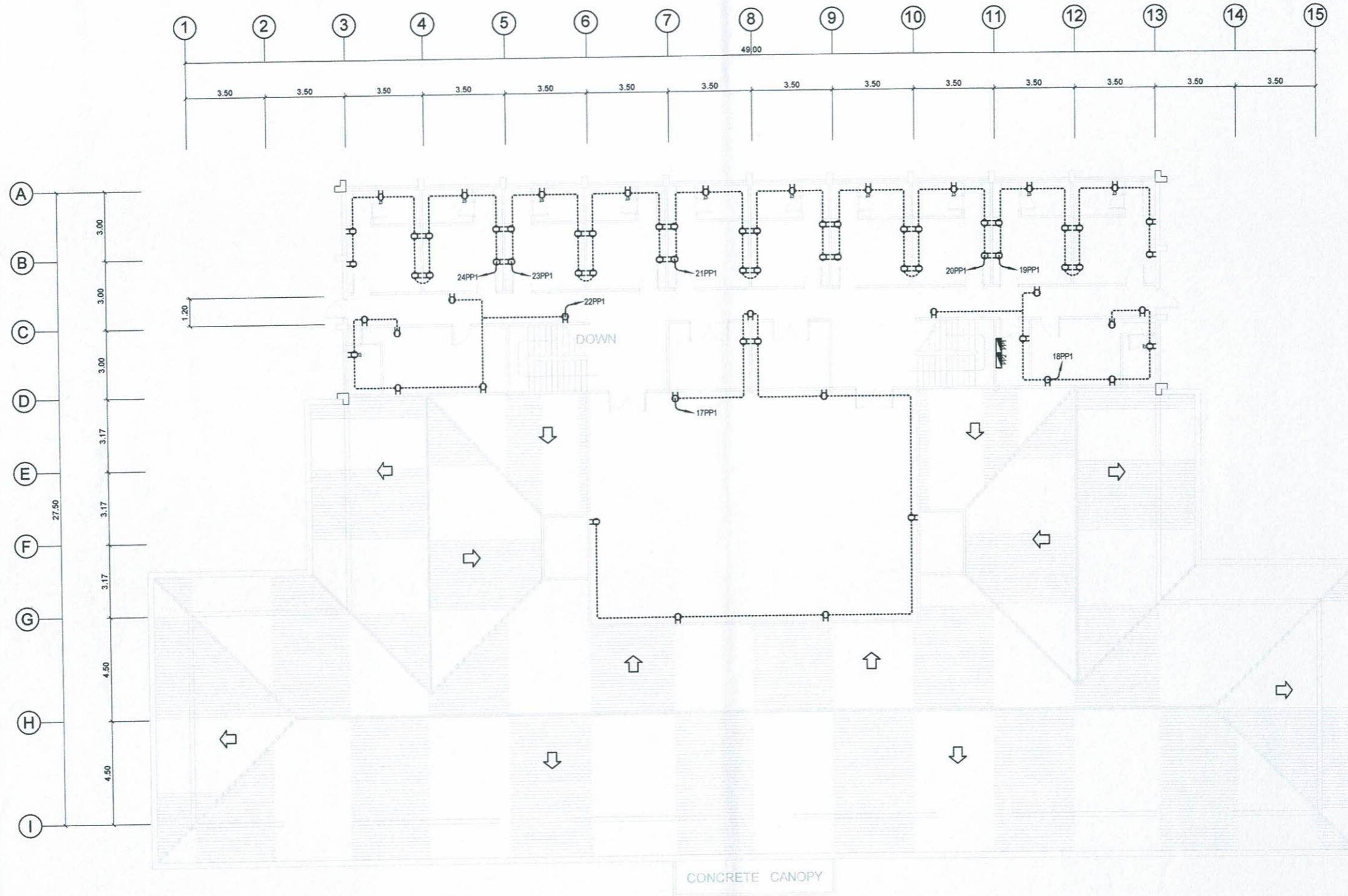





**1**  
**E4** SCALE 1 : 200 MTS.  
**GROUND FLOOR POWER LAYOUT**

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
 <b>R. J. R. SANCHEZ</b> PPU	<b>P. G. C. ILANO</b> MANAGER HOSTEL TROPICANA	<b>R. P. PEÑA</b> PPU OVPPD	<b>O. B. DELOS REYES</b> DIRECTOR PLANNING OFFICE	<b>M. J. D. TEPORA</b> VPPD CVSU	VPASS CVSU	<b>H. D. ROBLES</b> PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY E - 4

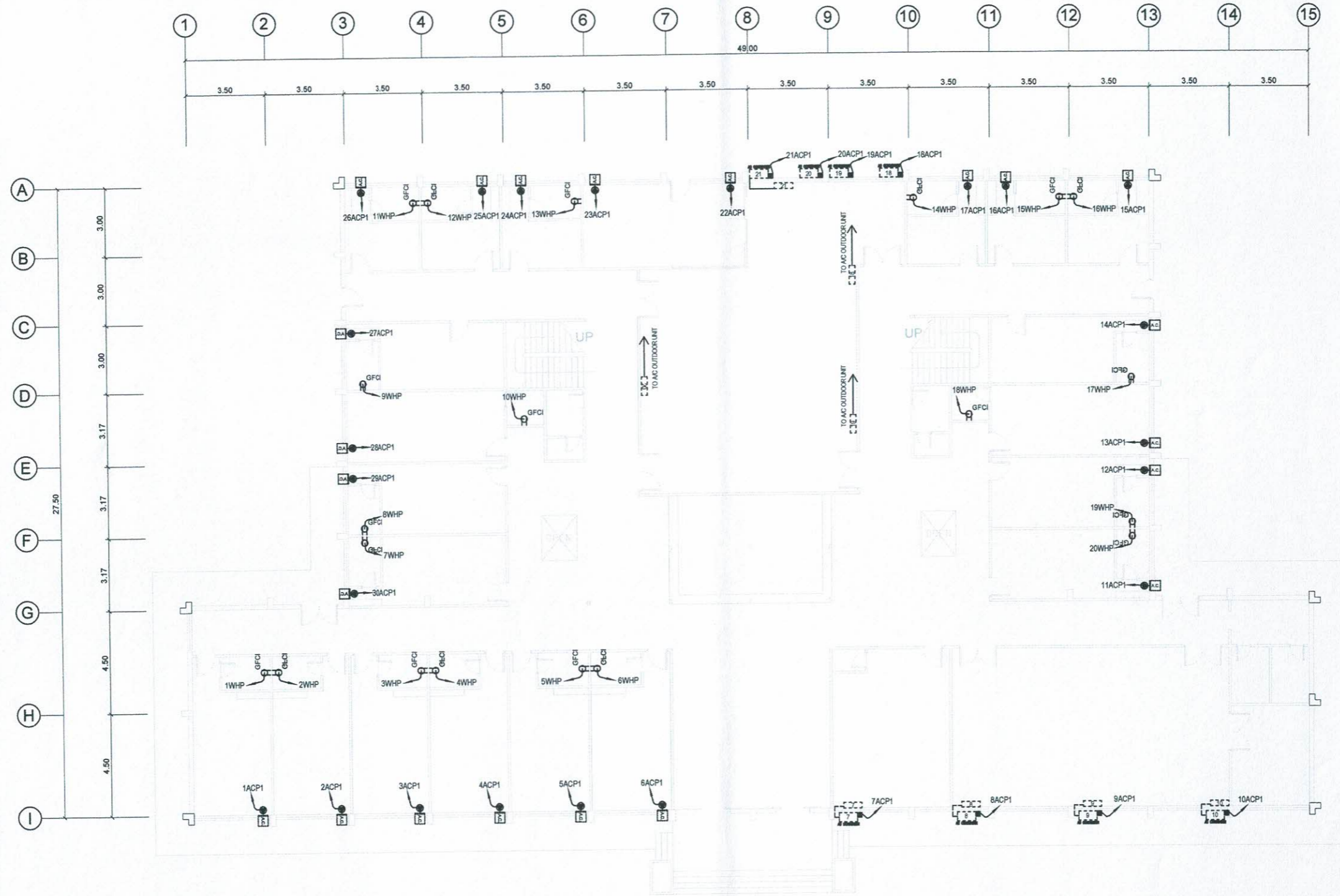




**1**  
**E 5** SCALE 1 : 200 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
 <b>R. J. R. SANCHEZ</b> PPU VPVPD	<b>P. G. C. ILANO</b> MANAGER HOSTEL TROPICANA	<b>R. P. PEÑA</b> PPU OVPPD	<b>O. B. DELOS REYES</b> DIRECTOR PLANNING OFFICE	<b>M. J. D. TEPORA</b> VPPD CVSU	<b>H. D. ROBLES</b> PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	<b>CAVITE STATE UNIVERSITY</b>	<b>E - 5</b>

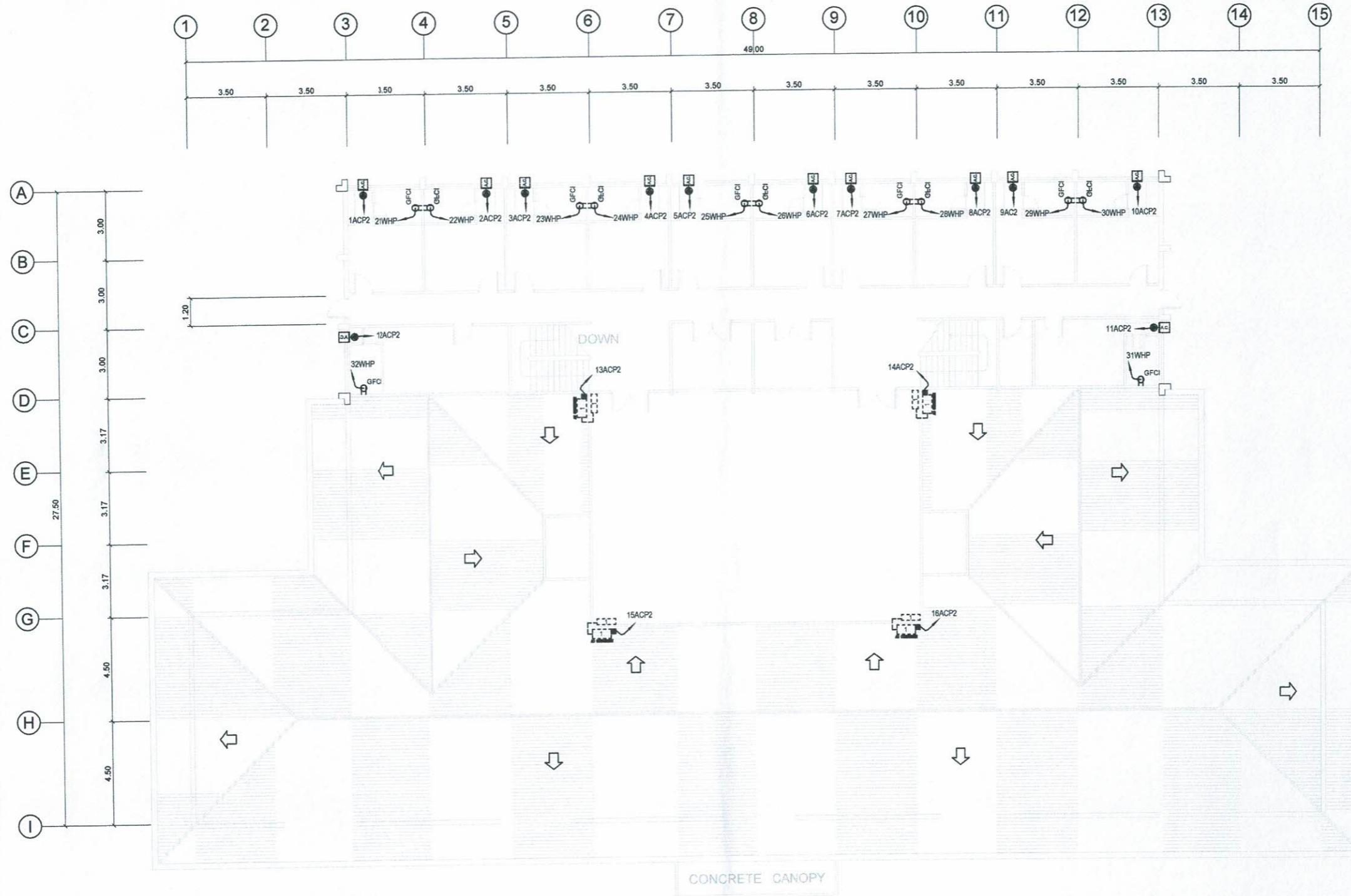





**1** GROUND FLOOR A.C. & W.H. LAYOUT  
**E6** SCALE 1 : 200 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
 R. J. R. SANCHEZ PPU OMPD	P. G. C. ILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY E - 6





**1** SECOND FLOOR A.C. & W.H. LAYOUT  
**E7** 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. R. SANCHEZ PPU OVPD	P. G. CILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEJORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY E - 7



# SCHEDULE OF LOADS

PANEL : LP1 (LIGHTING PANEL 1)		CABLE: 3 - 14.0 SQMM THHN+ 1 - 8.0 SQMM THW				MAIN: 60AT, 100AF, 3P, 230V, MCCB					
PHASE: 3		CONDUIT: PVC, 25 MM DIA.				ENCLOSURE : NEMA 1					
VOLTS: 230		LOCATION: SECOND FLOOR, ELECTRICAL ROOM				MOUNTING: SURFACE					
CKT NO.	CIRCUIT DESCRIPTION	LOAD IN RATING			CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code		
		Volt-Amp	VOLT	AMPERES		SQ. MM THHN	SQ. MM THW(G)				
				AB BC CA	CIRCUIT BREAKER RATING						
1	LIGHTING OUTLET	12	1200	230	5.22		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
2	LIGHTING OUTLET	8	800	230	3.48		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
3	LIGHTING OUTLET	12	1200	230		5.22	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
4	LIGHTING OUTLET	14	1400	230		6.09	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
5	LIGHTING OUTLET	12	1200	230			15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
6	LIGHTING OUTLET	8	800	230			15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
7	LIGHTING OUTLET	12	1200	230	5.22		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
8	LIGHTING OUTLET	14	1400	230	6.09		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
9	LIGHTING OUTLET	8	800	230		3.48	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
10	LIGHTING OUTLET	10	1000	230		4.35	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
11	LIGHTING OUTLET	9	900	230		3.91	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
12	LIGHTING OUTLET	10	1000	230		4.35	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
13	LIGHTING OUTLET	15	1500	230	6.52		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
14	LIGHTING OUTLET	12	1200	230	5.22		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
15	LIGHTING OUTLET	12	1200	230		5.22	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
16	LIGHTING OUTLET	15	1500	230		6.52	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
17	LIGHTING OUTLET	8	800	230			15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
18	LIGHTING OUTLET	10	1000	230		4.35	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
19	LIGHTING OUTLET	11	1100	230	4.78		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
	SPARE										
20	LIGHTING OUTLET	12	1200	230		5.22	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
	SPARE										
21	LIGHTING OUTLET	12	1200	230		5.22	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
	SPARE										
	TOTAL	236	23600	230	37	36	30	60AT, 3P, 230V, MCCB	3-14.0 + 1-8.0 G	PVC, 25	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:  $I_{FL} = (37 \times 1.732) DF = 51.27$  Amperes  
 $I_{CB} = (37 \times 1.732) DF = 51.27$  Amperes

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

**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.**

use: 3 - 14.0 SQMM THHN+ 1 - 8.0 SQMM THW IN 25 MM DIA. PVC  
 use: 60AT, 100AF, 3P, 230V, MCCB

PANEL : LP2 (LIGHTING PANEL 2)		CABLE: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW				MAIN: 40AT, 50AF, 3P, 230V, MCCB					
PHASE: 3		CONDUIT: PVC, 25 MM DIA.				ENCLOSURE : NEMA 1					
VOLTS: 230		LOCATION: SECOND FLOOR, ELECTRICAL ROOM				MOUNTING: SURFACE					
CKT NO.	CIRCUIT DESCRIPTION	LOAD IN RATING			CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code		
		Volt-Amp	VOLT	AMPERES		SQ. MM THHN	SQ. MM THW(G)				
				AB BC CA	CIRCUIT BREAKER RATING						
1	LIGHTING OUTLET	8	800	230	3.48		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
2	LIGHTING OUTLET	8	800	230	3.48		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
3	LIGHTING OUTLET	8	800	230		3.48	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
4	LIGHTING OUTLET	8	800	230		3.48	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
5	LIGHTING OUTLET	8	800	230			15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
6	LIGHTING OUTLET	14	1400	230		6.09	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
7	LIGHTING OUTLET	10	1000	230	4.35		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
8	LIGHTING OUTLET	9	900	230	3.91		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
9	LIGHTING OUTLET	9	900	230		3.91	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
10	LIGHTING OUTLET	9	900	230		3.91	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1B,1Y	
11	LIGHTING OUTLET	10	1000	230		4.35	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
12	LIGHTING OUTLET	10	1000	230		4.35	15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1Y,1R	
13	LIGHTING OUTLET	10	1000	230	4.35		15AT, 2P, 230V, MCCB	2-2.0	PVC, 20	1R,1B	
	SPARE										
	TOTAL	121	12100	230	20	15	18	40AT, 3P, 230V, MCCB	3-8.0 + 1-5.5 G	PVC, 25	1R,1B,1Y,G


MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:  $I_{FL} = (20 \times 1.732) DF = 27.71$  Amperes  
 $I_{CB} = (20 \times 1.732) DF = 27.71$  Amperes

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

**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.**

use: 3 - 8.0 SQMM THHN+ 1 - 5.5 SQMM THW IN 25 MM DIA. PVC  
 use: 40AT, 50AF, 3P, 230V, MCCB

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. R. SANCHEZ PPU OVPPD	P. G. C. ILANO MANAGER HOSTEL TROPICANA	R. P. PENA PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPASS CVSU	CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY



PANEL : PP1 (POWER PANEL 1)		CABLE: 3 - 30.0 SQMM THHN+ 1 - 8.0 SQMM THW			MAIN: 100AT, 100AF, 3P, 230V, MCCB							
PHASE: 3		CONDUIT: PVC, 32 MM DIA.			ENCLOSURE : NEMA 1							
VOLTS: 230		LOCATION: SECOND FLOOR, ELECTRICAL ROOM			MOUNTING: SURFACE							
CKT NO.	CIRCUIT DESCRIPTION	LOAD IN RATING			CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code			
		Volts-Amp	VOLT	AMPERES		SQ. MM THHN	SQ. MM THW(G)					
		AB	BC	CA	CIRCUIT BREAKER RATING							
1	CONVENIENCE OUTLET	10	1800	230	7.83				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
2	CONVENIENCE OUTLET	10	1800	230	7.83				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
3	CONVENIENCE OUTLET	9	1620	230		7.04			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
4	CONVENIENCE OUTLET	12	2160	230		9.39			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
5	CONVENIENCE OUTLET	8	1440	230			6.26		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
6	CONVENIENCE OUTLET	8	1440	230			6.26		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
7	CONVENIENCE OUTLET	9	1620	230	7.04				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
8	CONVENIENCE OUTLET	8	1440	230	6.26				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
9	CONVENIENCE OUTLET	10	1800	230		7.83			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
10	CONVENIENCE OUTLET	9	1620	230		7.04			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
11	CONVENIENCE OUTLET	13	2340	230			10.17		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
12	CONVENIENCE OUTLET	13	2340	230			10.17		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
13	CONVENIENCE OUTLET	8	1440	230	6.26				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
14	CONVENIENCE OUTLET	13	2340	230	10.17				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
15	CONVENIENCE OUTLET	9	1620	230		7.04			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
16	CONVENIENCE OUTLET	10	1800	230		7.83			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
17	CONVENIENCE OUTLET	9	1620	230		7.04			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
18	CONVENIENCE OUTLET	8	1440	230			6.26		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
19	CONVENIENCE OUTLET	10	1800	230	7.83				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
20	CONVENIENCE OUTLET	10	1800	230	7.83				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
21	CONVENIENCE OUTLET	10	1800	230		7.83			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
22	CONVENIENCE OUTLET	7	1260	230		5.48			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
23	CONVENIENCE OUTLET	10	1800	230			7.83		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
24	CONVENIENCE OUTLET	10	1800	230			7.83		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
TOTAL		233	41940	230	61	59	62		100AT, 3P, 230V, MCCB	3 - 30.0 + 1 - 8.0 G	PVC, 32	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:  $I_{FL} = (62 \times 1.732) \text{ DF} = 85.91 \text{ Amperes}$   
 $I_{CB} = (62 \times 1.732) \text{ DF} = 85.91 \text{ Amperes}$

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

use: 3 - 30.0 SQMM THHN+ 1 - 8.0 SQMM THW IN 32 MM DIA. PVC  
 use: 100AT, 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.

PANEL : ACP1 (AIRCON UNIT PANEL 1)		CABLE: 3 - 175.0 SQMM THHN+ 1 - 30.0 SQMM THW			MAIN: 300AT, 400AF, 3P, 230V, MCCB							
PHASE: 3		CONDUIT: PVC, 75 MM DIA.			ENCLOSURE : NEMA 1							
VOLTS: 230		LOCATION: SECOND FLOOR, ELECTRICAL ROOM			MOUNTING: SURFACE							
CKT NO.	CIRCUIT DESCRIPTION	LOAD IN RATING			CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code			
		Volts-Amp	VOLT	AMPERES		SQ. MM THHN	SQ. MM THW(G)					
		AB	BC	CA	CIRCUIT BREAKER RATING							
1	A/C Unit (1.5 HP)	1	1119	230	10.00				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
2	A/C Unit (1.5 HP)	1	1119	230	10.00				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
3	A/C Unit (1.5 HP)	1	1119	230		10.00			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
4	A/C Unit (1.5 HP)	1	1119	230		10.00			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
5	A/C Unit (1.5 HP)	1	1119	230			10.00		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
6	A/C Unit (1.5 HP)	1	1119	230			10.00		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
7	A/C Unit (2.0 HP)	1	1492	230	12.00				40AT, 2P, 230V, MCCB	2 - 5.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
8	A/C Unit (2.0 HP)	1	1492	230	12.00				40AT, 2P, 230V, MCCB	2 - 5.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
9	A/C Unit (2.0 HP)	1	1492	230		12.00			40AT, 2P, 230V, MCCB	2 - 5.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
10	A/C Unit (2.0 HP)	1	1492	230		12.00			40AT, 2P, 230V, MCCB	2 - 5.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
11	A/C Unit (1.5 HP)	1	1119	230			10.00		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
12	A/C Unit (1.5 HP)	1	1119	230			10.00		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
13	A/C Unit (1.5 HP)	1	1119	230	10.00				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
14	A/C Unit (1.5 HP)	1	1119	230	10.00				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
15	A/C Unit (1.5 HP)	1	1119	230		10.00			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
16	A/C Unit (1.5 HP)	1	1119	230		10.00			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
17	A/C Unit (1.5 HP)	1	1119	230			10.00		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
18	A/C Unit (3.0 HP)	1	2238	230			17.00		40AT, 2P, 230V, MCCB	2 - 5.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
19	A/C Unit (3.0 HP)	1	2238	230	17.00				40AT, 2P, 230V, MCCB	2 - 5.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
20	A/C Unit (3.0 HP)	1	2238	230	17.00				40AT, 2P, 230V, MCCB	2 - 5.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
21	A/C Unit (3.0 HP)	1	2238	230		17.00			40AT, 2P, 230V, MCCB	2 - 5.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
22	A/C Unit (1.5 HP)	1	1119	230		10.00			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
23	A/C Unit (1.5 HP)	1	1119	230		10.00			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
24	A/C Unit (1.5 HP)	1	1119	230		10.00			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
25	A/C Unit (1.5 HP)	1	1119	230	10.00				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
26	A/C Unit (1.5 HP)	1	1119	230	10.00				20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1R,1B,G
27	A/C Unit (1.5 HP)	1	1119	230		10.00			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
28	A/C Unit (1.5 HP)	1	1119	230		10.00			20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1B,1Y,G
29	A/C Unit (1.5 HP)	1	1119	230			10.00		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
30	A/C Unit (1.5 HP)	1	1119	230			10.00		20AT, 2P, 230V, MCCB	2 - 3.5 + 1 - 2.0 G	PVC, 20	1Y,1R,G
TOTAL		30	39538	230	118	111	107		300AT, 3P, 230V, MCCB	3 - 175.0 + 1 - 30.0 G	PVC, 75	1R,1B,1Y,G


MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:  $I_{FL} = [(118 \times 1.732) + (25\% \times \text{Im})] = 208.63 \text{ Amperes}$   
 $I_{CB} = [(118 \times 1.732) + (250\% \times \text{Im})] = 246.88 \text{ Amperes}$

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

use: 3 - 175.0 SQMM THHN+ 1 - 30.0 SQMM THW IN 75 MM DIA. PVC  
 use: 300AT, 400AF, 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.

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
	R. J. R. SANCHEZ PPU OVPPD	P. G. GILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. YEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY



PANEL : ACP2 (AIRCON UNIT PANEL 2) CABLE: 3 - 80.0 SQMM THHN+ 1 - 22.0 SQMM THW MAIN: 200AT, 300AF, 3P, 230V, MCCB  
 CONDUIT: PVC, 50 MM DIA. ENCLOSURE : NEMA 1 MOUNTING: SURFACE

CKT NO.	CIRCUIT DESCRIPTION	LOAD IN RATING	AMPERES			CIRCUIT BREAKER RATING	Size of Conductor		Size Of Conduit In MM ø	Color Code		
			Volt- Amp	VOLT	AB		BC	CA			SQ. MM THHN	SQ. MM THW(G)
1	A/C Unit (1.5 HP)	1	1119	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G		
2	A/C Unit (1.5 HP)	1	1119	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G		
3	A/C Unit (1.5 HP)	1	1119	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G		
4	A/C Unit (1.5 HP)	1	1119	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G		
5	A/C Unit (1.5 HP)	1	1119	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G		
6	A/C Unit (1.5 HP)	1	1119	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G		
7	A/C Unit (1.5 HP)	1	1492	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G		
8	A/C Unit (1.5 HP)	1	1492	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G		
9	A/C Unit (1.5 HP)	1	1492	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G		
10	A/C Unit (1.5 HP)	1	1492	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G		
11	A/C Unit (1.5 HP)	1	1119	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G		
12	A/C Unit (1.5 HP)	1	1119	230	10.00	20AT, 2P, 230V, MCCB	2 - 3.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G		
13	A/C Unit (3.0 HP)	1	1119	230	17.00	40AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G		
14	A/C Unit (3.0 HP)	1	1119	230	17.00	40AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G		
15	A/C Unit (3.0 HP)	1	1119	230	17.00	40AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G		
16	A/C Unit (3.0 HP)	1	1119	230	17.00	40AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G		
TOTAL		16	19396	230	74	57	57	200AT, 3P, 230V, MCCB	3 - 80.0	+ 1 - 22.0 G	PVC, 50	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:  
 NOTE:  $I_{FL} = [(74 \times 1.732) + (25\% \times 1m)] = 132.42$  Amperes  
 $I_{CB} = [(74 \times 1.732) + (250\% \times 1m)] = 170.67$  Amperes  
 use: 3 - 80.0 SQMM THHN+ 1 - 22.0 SQMM THW IN 50 MM DIA. PVC  
 use: 200AT, 300AF, 3P, 230V, MCCB  
 G - Means Ground Wire  
 1R- Color RED  
 1B- Color BLACK  
 1Y- Color YELLOW  
 1G- Color GREEN  
 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 : MDP (MAIN DISTRIBUTION PANEL) CABLE: 3 - (2) 200.0 SQMM THHN+ 1 - 80.0SQMM THW MAIN: 700AT, 800AF, 3P, 230V, MCCB  
 CONDUIT: RSC, 90 MM DIA. ENCLOSURE : NEMA 1 MOUNTING: SURFACE

CKT NO.	CIRCUIT DESCRIPTION	LOAD IN RATING	AMPERES			CIRCUIT BREAKER RATING	Size of Conductor		Size Of Conduit In MM ø	Color Code		
			Volt- Amp	VOLT	AB		BC	CA			SQ. MM THHN	SQ. MM THW(G)
1	LIGHTING PANEL 1	LP1	23600	230	37	36	30	60AT, 3P, 230V, MCCB	3 - 14.0	+ 1 - 8.0 G	PVC, 25	1R,1B,1Y,G
2	LIGHTING PANEL 2	LP2	12100	230	20	15	18	40AT, 3P, 230V, MCCB	3 - 8.0	+ 1 - 5.5 G	PVC, 25	1R,1B,1Y,G
3	POWER PANEL 1	PP1	41940	230	61	59	62	100AT, 3P, 230V, MCCB	3 - 30.0	+ 1 - 8.0 G	PVC, 32	1R,1B,1Y,G
4	AIRCON UNIT PANEL 1	ACP1	39538	230	118	111	107	300AT, 3P, 230V, MCCB	3 - 175.0	+ 1 - 30.0 G	PVC, 75	1R,1B,1Y,G
5	AIRCON UNIT PANEL 2	ACP2	19396	230	74	57	57	200AT, 3P, 230V, MCCB	3 - 80.0	+ 1 - 22.0 G	PVC, 50	1R,1B,1Y,G
6	WATER HEATER PANEL	WHP	121600	230	165	182	182	300AT, 3P, 230V, MCCB	3 - 175.0	+ 1 - 30.0 G	PVC, 75	1R,1B,1Y,G
7	FIRE ALARM SYSTEM	FACP	500	230	2			15AT, 3P, 230V, MCCB	2 - 2.00		PVC, 20	1R,1Y
TOTAL			258674	230	476	460	456	700AT, 3P, 230V, MCCB	3 - (2) 200.0	+ 1 - 80.0 G	RSC, 90	1R,1B,1Y, G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:  
 NOTE:  $I_{FL} = (476 \times 1.732) DF = 829.55$  Amperes  
 $I_{CB} = (476 \times 1.732) DF = 829.55$  Amperes  
 use: 3 - (2) 200.0 SQMM THHN+ 1 - 80.0 SQMM THW IN 90 MM DIA. RSC  
 use: 700AT, 800AF, 3P, 230V, MCCB  
 G - Means Ground Wire  
 1R- Color RED  
 1B- Color BLACK  
 1Y- Color YELLOW  
 1G- Color GREEN  
 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 : PP1 (POWER PANEL 1) CABLE: 3 - 175.0 SQMM THHN+ 1 - 30.0 SQMM THW MAIN: 300AT, 400AF, 3P, 230V, MCCB  
 CONDUIT: PVC, 75 MM DIA. ENCLOSURE : NEMA 1 MOUNTING: SURFACE

CKT NO.	CIRCUIT DESCRIPTION	LOAD IN RATING	AMPERES			CIRCUIT BREAKER RATING	Size of Conductor		Size Of Conduit In MM ø	Color Code		
			Volt- Amp	VOLT	AB		BC	CA			SQ. MM THHN	SQ. MM THW(G)
1	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
2	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
3	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
4	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
5	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
6	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
7	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
8	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
9	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
10	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
11	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
12	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
13	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
14	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
15	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
16	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
17	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
18	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
19	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
20	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
21	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
22	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
23	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
24	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
25	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
26	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1R,1B,G
27	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
28	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
29	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
30	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
31	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1B,1Y,G
32	WATER HEATER OUTLET	1	3800	230	16.52			30AT, 2P, 230V, MCCB	2 - 5.5	+ 1 - 2.0 G	PVC, 20	1Y,1R,G
TOTAL		32	121600	230	165	182	182	300AT, 3P, 230V, MCCB	3 - 175.0	+ 1 - 30.0 G	PVC, 75	1R,1B,1Y,G

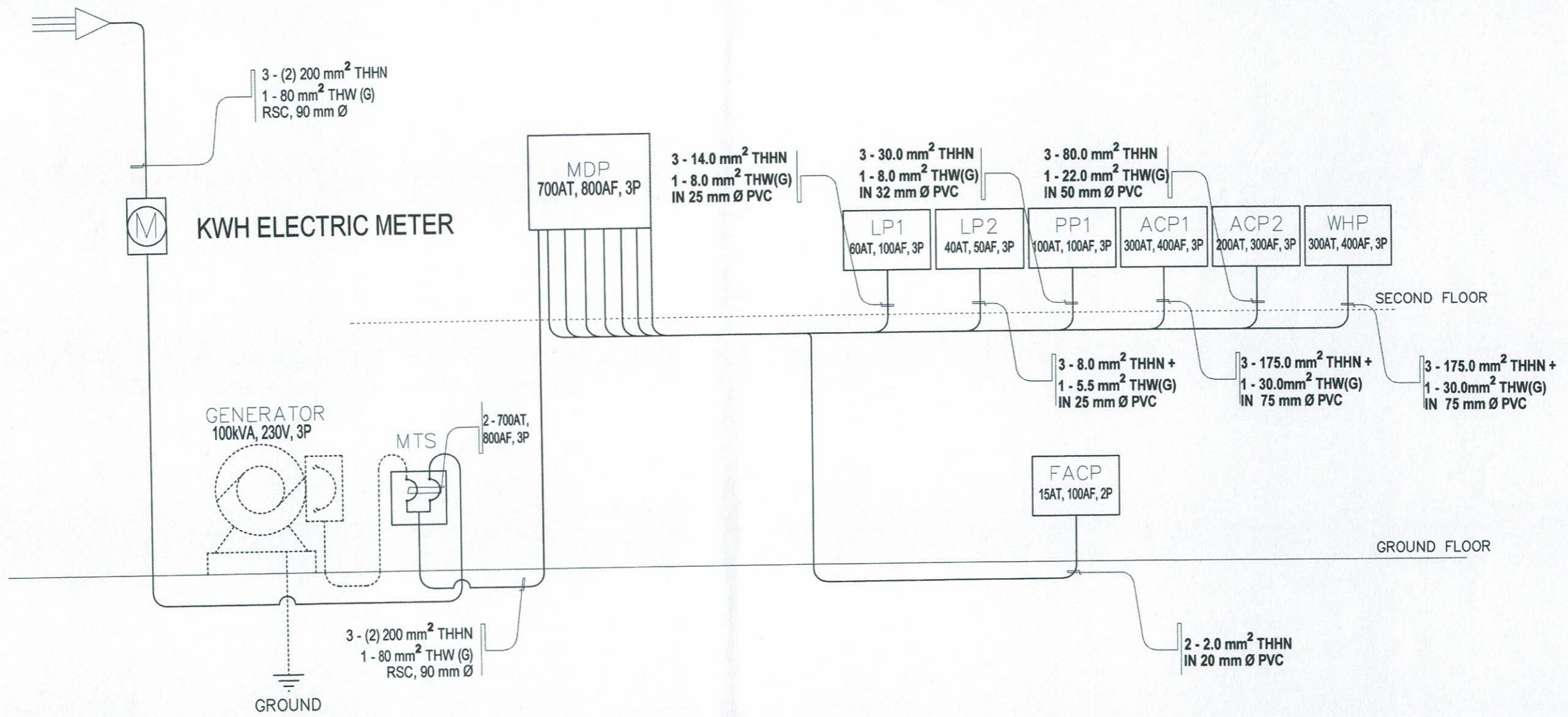
MAIN FEEDER and CURRENT PROTECTION COMPUTATION:  
 NOTE:  $I_{FL} = (182 \times 1.732) DF = 315.18$  Amperes  
 $I_{CB} = (182 \times 1.732) DF = 315.18$  Amperes  
 use: 3 - 175.0 SQMM THHN+ 1 - 30.0 SQMM THW IN 75 MM DIA. PVC  
 use: 300AT, 400AF, 3P, 230V, MCCB  
 G - Means Ground Wire  
 1R- Color RED  
 1B- Color BLACK  
 1Y- Color YELLOW  
 1G- Color GREEN  
 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.

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. R. SANCHEZ PPU	P. G. C. ILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD	VPASS	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY



ADDITIONAL NOTES:

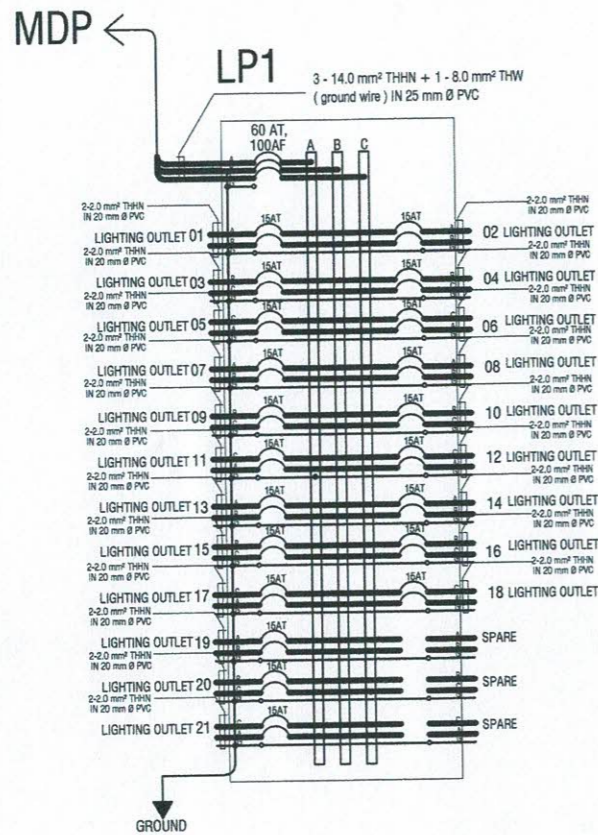
1. PROVIDE CABLE/ WIRE GUTTER BELOW AND ABOVE THE PANEL BOARDS INSIDE ALL THE ELECTRICAL ROOM.
2. PROVIDE SIGNAGE "ELECTRICAL ROOM" POSTED TO ALL ELECTRICAL ROOM DOORS.
3. THE SIZE OF GENERATOR IS 40% OF THE TOTAL VA LOAD. THIS IS INTENDED TO SUPPLY ELECTRIC POWER FOR LIGHTINGS AND OTHER IMPORTANT APPLIANCES DURING THE POWER INTERRUPTION OF MAIN POWER SOURCE.



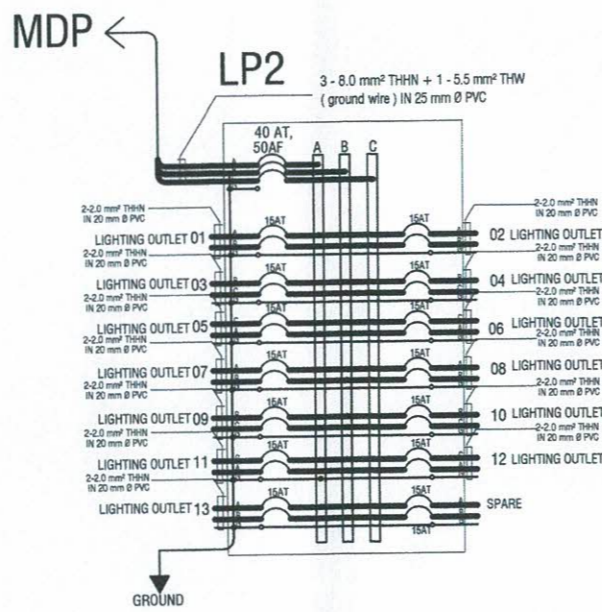
1 SINGLE LINE DIAGRAM SCALE N. T. S.

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. R. SANCHEZ PPU OVPD	P. G. C. ILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU OVPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY

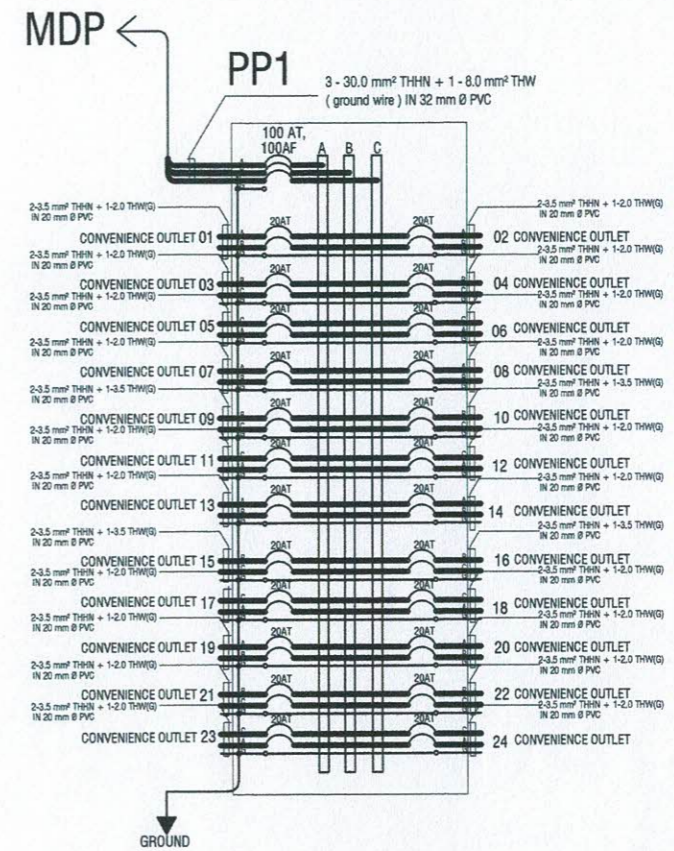




**1** PANEL BOARD DETAILS  
E12 SCALE N. T. S.



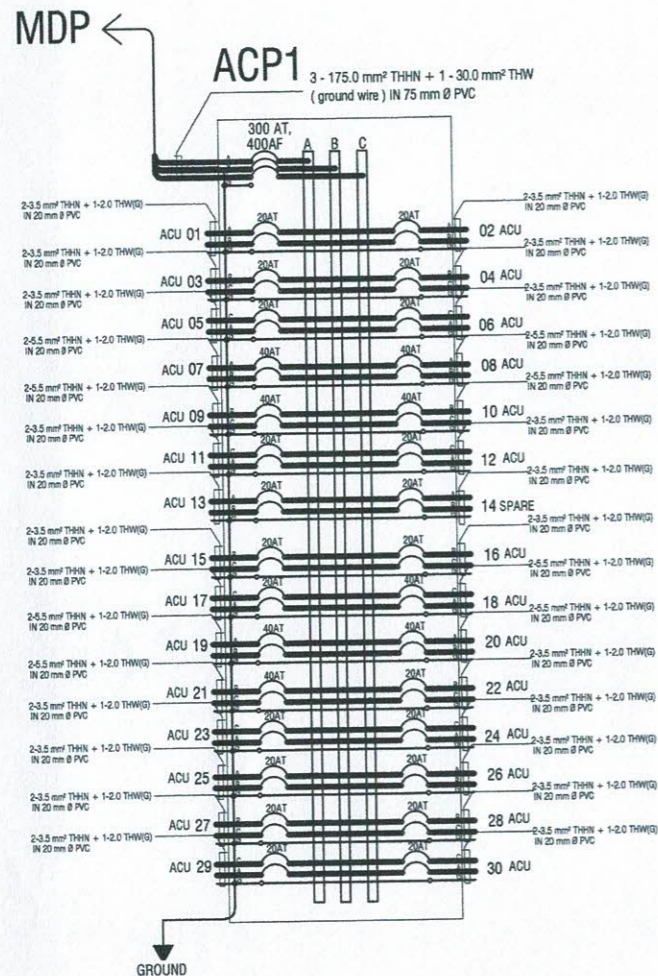
**2** PANEL BOARD DETAILS  
E12 SCALE N. T. S.



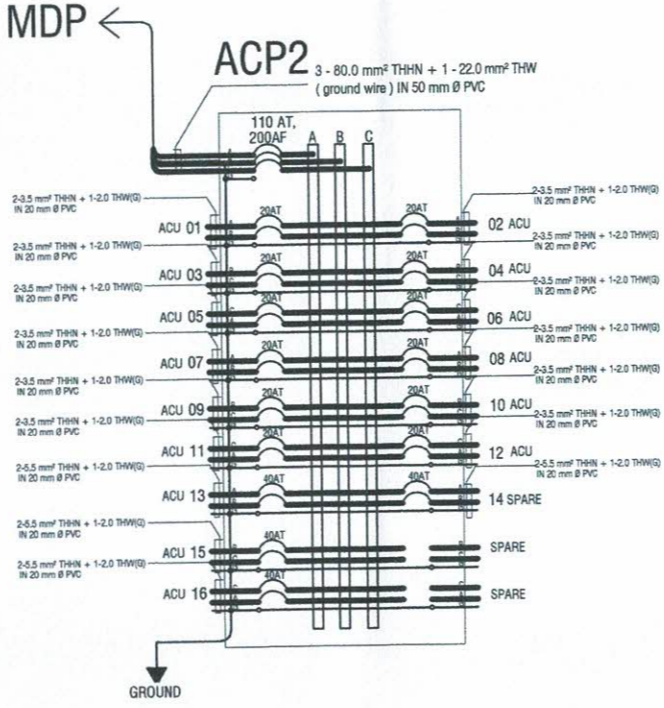
**3** PANEL BOARD DETAILS  
E12 SCALE N. T. S.

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
	 <b>R. J. R. SANCHEZ</b> PPU OVPPD	 <b>P. G. C. ILANO</b> MANAGER HOSTEL TROPICANA	 <b>R. P. PEÑA</b> PPU OVPPD	 <b>O. B. DELOS REYES</b> DIRECTOR PLANNING OFFICE	 <b>M. J. D. TEPORA</b> VPPD CVSU	VPASS CVSU	 <b>H. D. ROBLES</b> PRES CVSU	<b>REHABILITATION OF HOSTEL TROPICANA</b> CAVITE STATE UNIVERSITY MAIN CAMPUS	<b>CAVITE STATE UNIVERSITY</b>

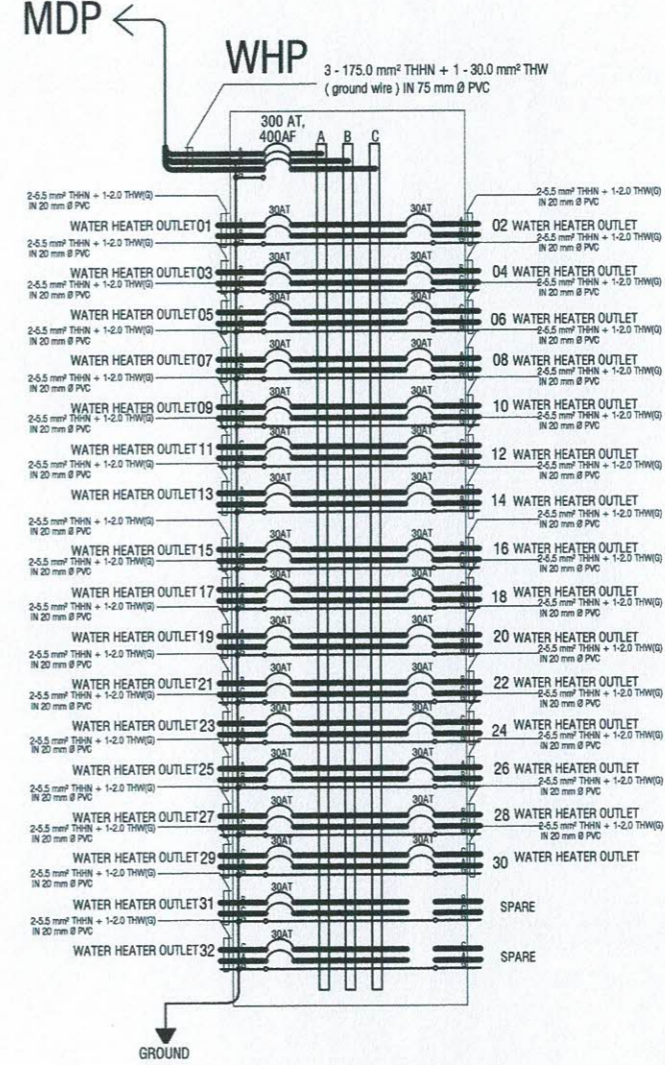




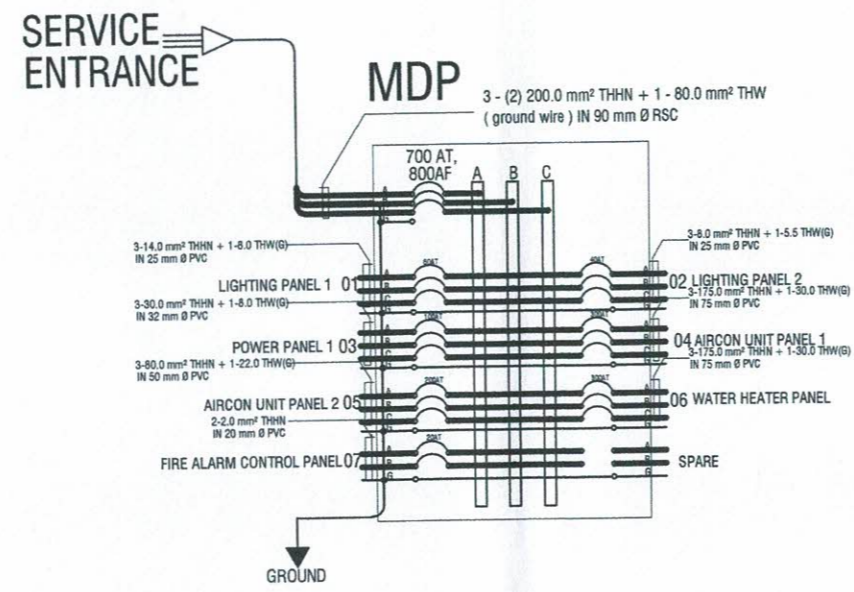
**1**  
E13 SCALE N. T. S.  
PANEL BOARD DETAILS



**2**  
E13 SCALE N. T. S.  
PANEL BOARD DETAILS



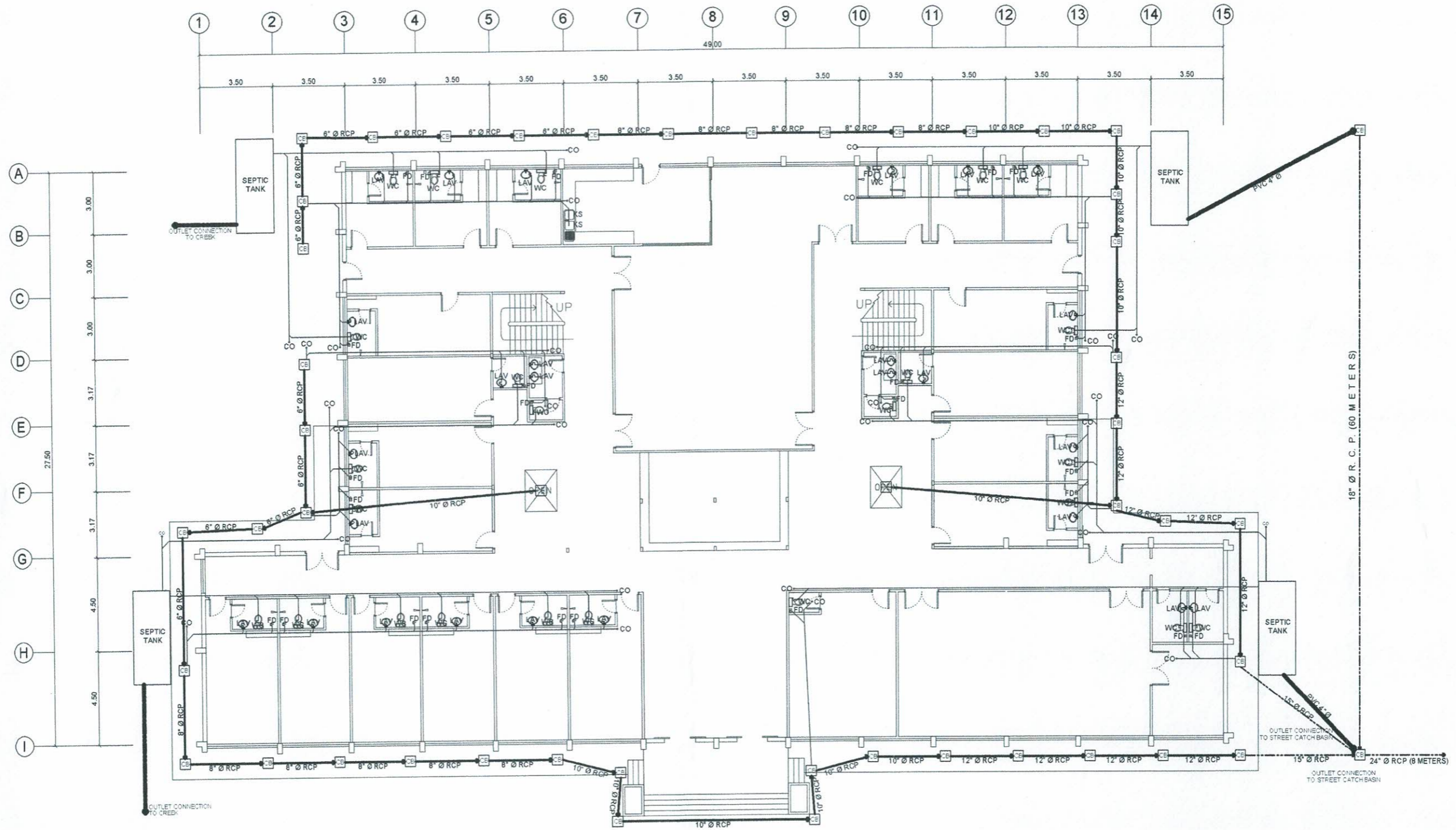
**3**  
E13 SCALE N. T. S.  
PANEL BOARD DETAILS




**4**  
E13 SCALE N. T. S.  
PANEL BOARD DETAILS

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
	R. J. R. SANCHEZ PPU VPPD	P. G. O. ILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. S. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY

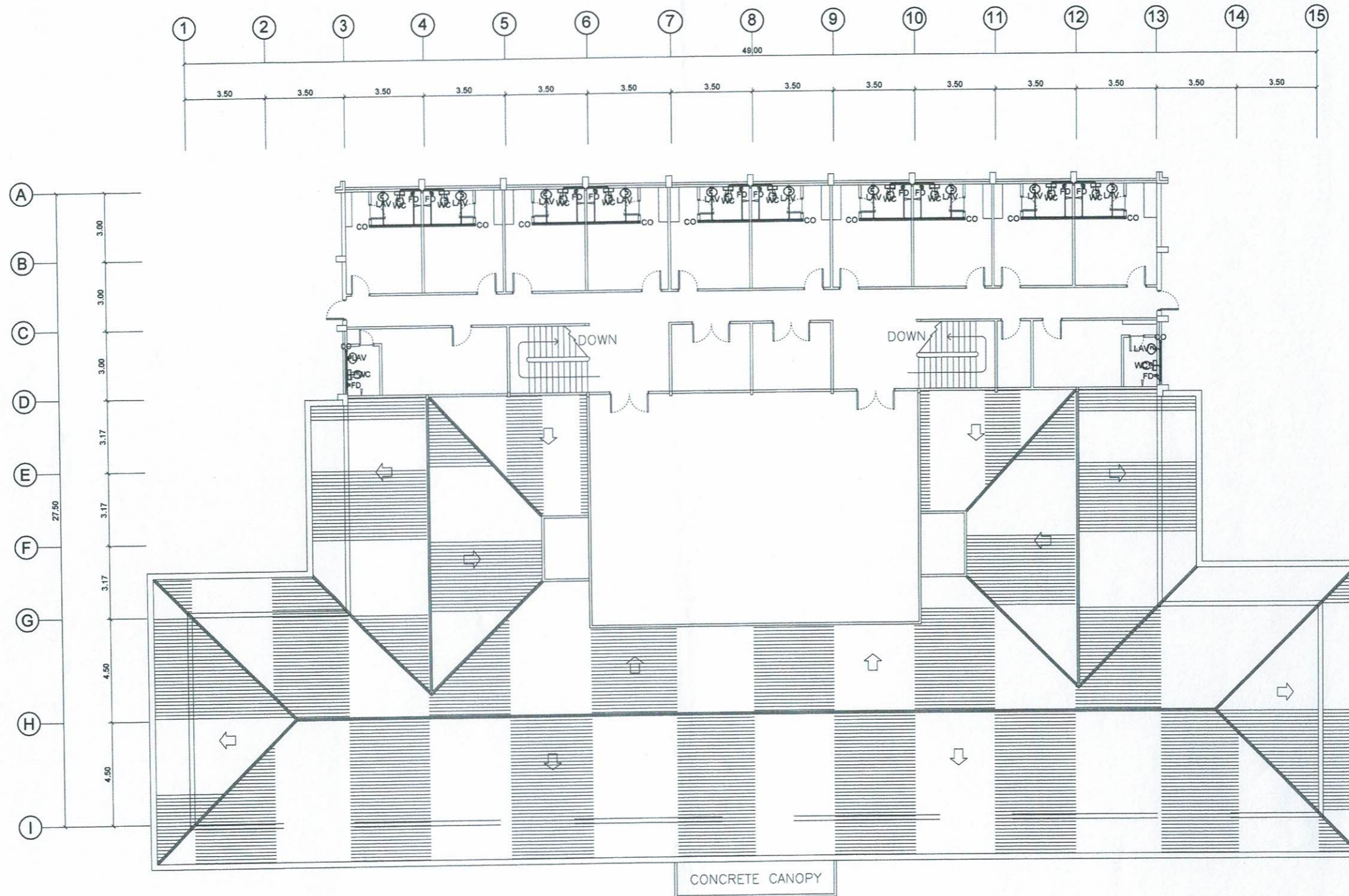




1  
P 1
**GROUND FLOOR SEWER LAYOUT**  
 SCALE 1 : 200 MTS.

	PREPARED BY: <b>J. D. ESCANO</b> <small>PPU OVPDP</small>	END USER: <b>P. G. CALANO</b> <small>MANAGER HOSTEL TROPICANA</small>	REVIEWED BY: <b>S. B. BAYOT JR.</b> <small>PPU OVPDP</small>	ENDORSED BY: <b>O. B. DELOS REYES</b> <small>DIRECTOR PLANNING OFFICE</small>	REC. APPROVAL: <b>M. J. D. TEPORA</b> <small>VPPD CVSU</small>	APPROVED BY: <b>H. D. ROBLES</b> <small>PRES CVSU</small>	PROJECT TITLE/LOCATION: <b>REHABILITATION OF HOSTEL TROPICANA</b> <small>CAVITE STATE UNIVERSITY MAIN CAMPUS</small>	IMPLEMENTING AGENCY: <b>CAVITE STATE UNIVERSITY</b>	SHT NO.: <b>P - 1</b>
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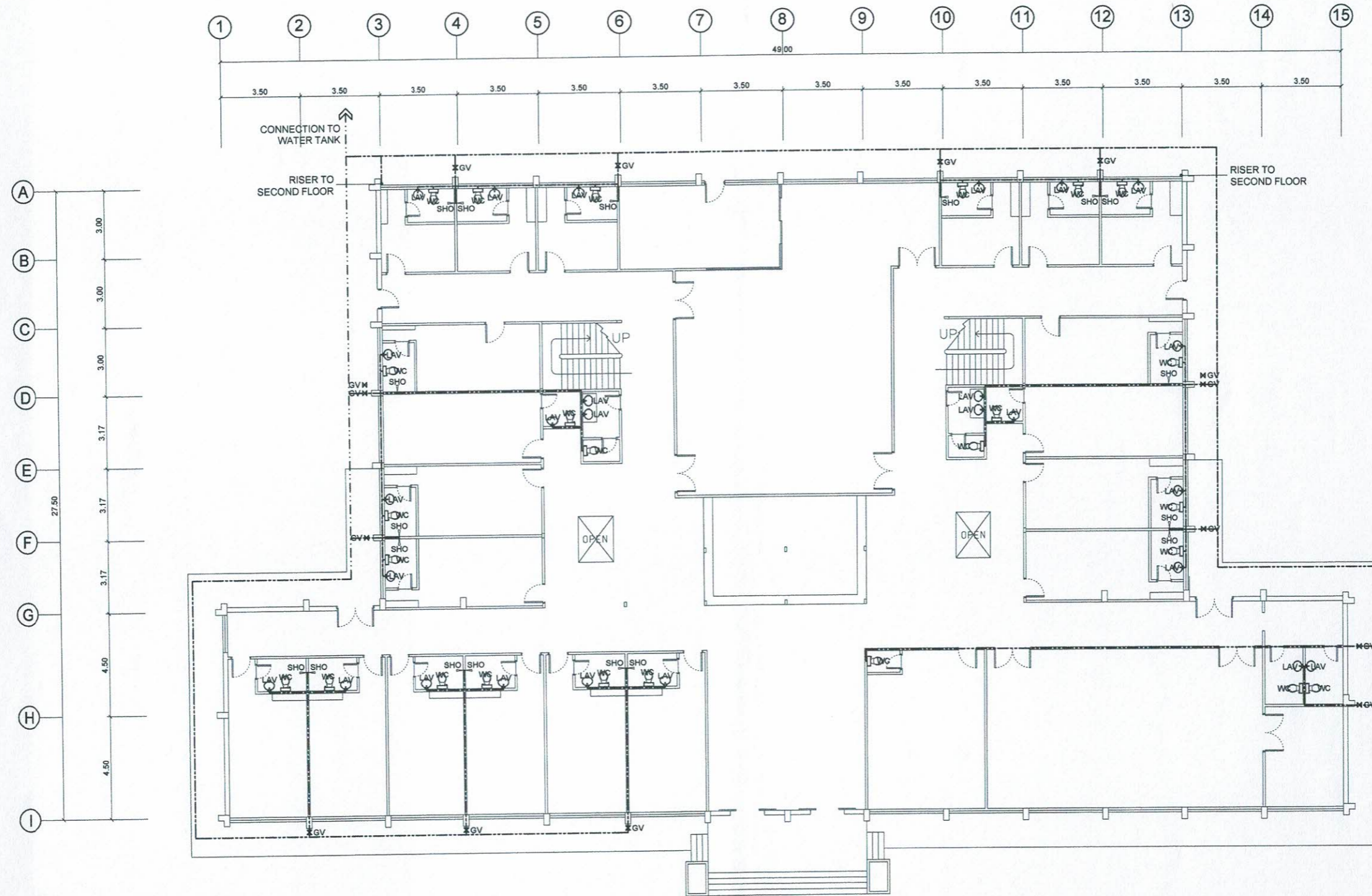
1  
P2

SECOND FLOOR SEWER LAYOUT


SCALE 1 : 200 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
 J. D. ESCANO PPU OVPD	P. G. C. ILANO MANAGER HOSTEL TROPICANA	S. B. BAYOT JR. PPU OVPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEOPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY P - 2

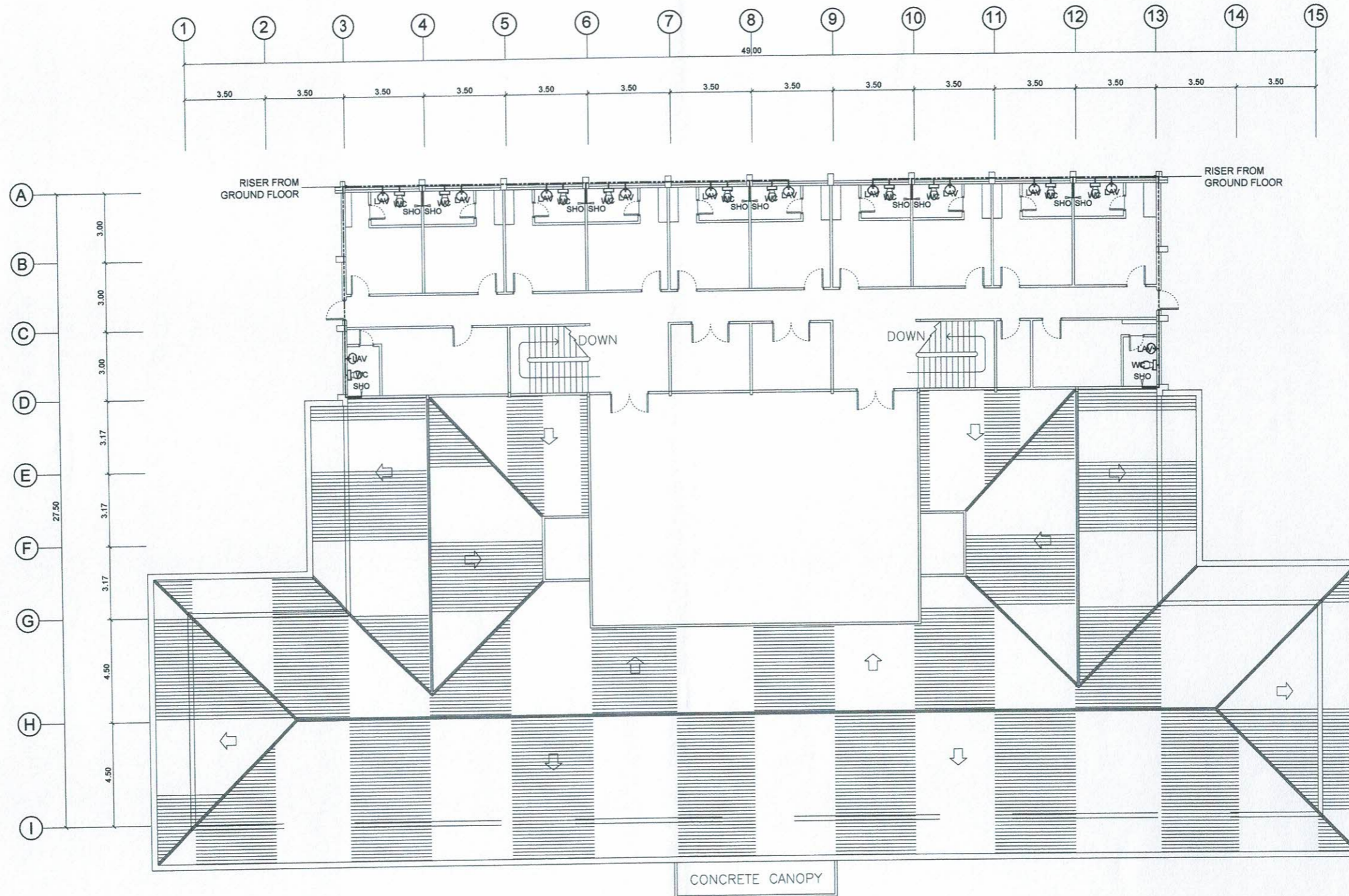




**1** GROUND FLOOR WATER SUPPLY LAYOUT  
 P3 SCALE 1 : 200 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
 J. D. ESCANO PPU OVPPD	P. G. CILANO MANAGER HOSTEL TROPICANA	S. B. BAYOT JR. PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY P - 3






1  
P4

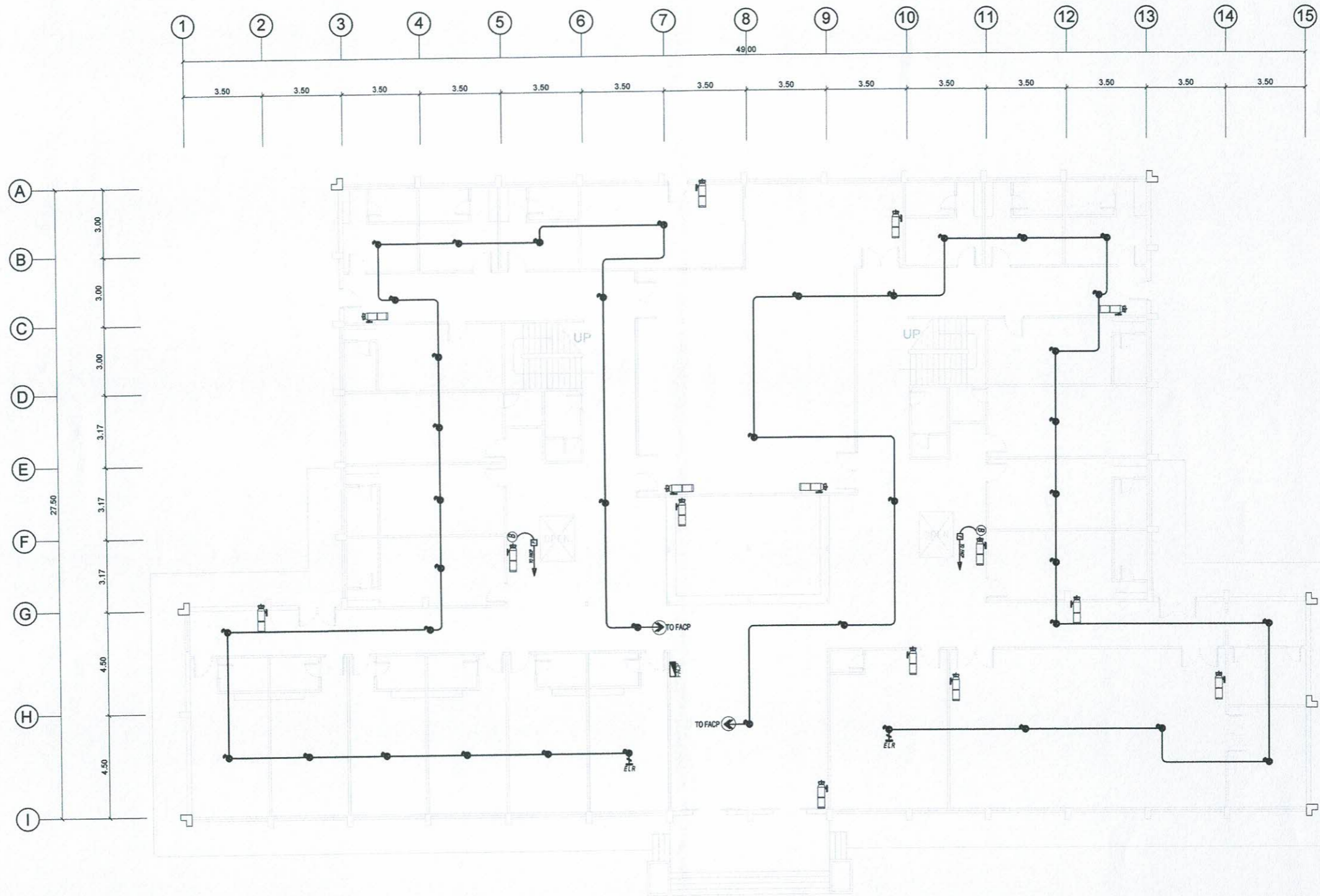
SECOND FLOOR WATER SUPPLY LAYOUT

SCALE

1 : 200 MTS.

	PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO.:
	J. D. ESCANO PPU OVPPD	P. G. C. ILANO MANAGER HOSTEL TROPICANA	S. B. BAYOT JR. PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY





1  
M 1

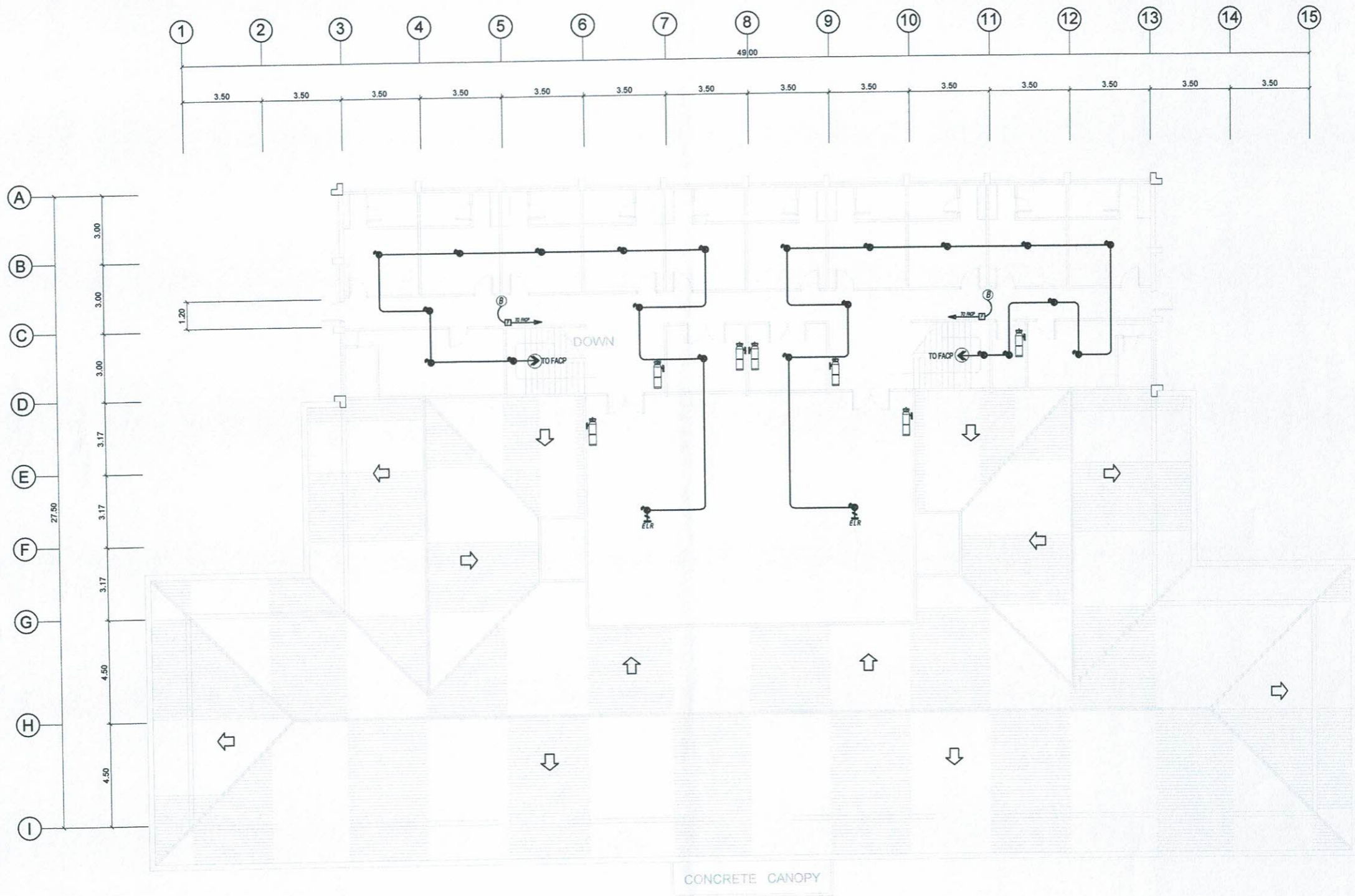
GROUND FLOOR FDAS PLAN

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. R. SANCHEZ PPU OVPPD	P. G. C. ILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU OVPPD	Q. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY






1  
M/2

SECOND FLOOR FDAS PLAN

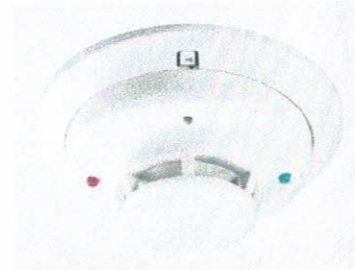
SCALE 1 : 200 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
 R. J. R. SANCHEZ PPU <i>[Signature]</i>	P. G. C. ILANO MANAGER HOSTEL TROPICANA <i>[Signature]</i>	R. P. PEÑA PPU OVPPD <i>[Signature]</i>	O. B. DELOS REYES DIRECTOR PLANNING OFFICE <i>[Signature]</i>	M. J. D. TEPORA VPPD CVSU <i>[Signature]</i>	H. D. ROBLES PRES CVSU <i>[Signature]</i>	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY	M - 2



LEGEND AND SYMBOLS:

SYMBOL	DESCRIPTIONS
	SMOKE/HEAT DETECTOR
	FIRE ALARM MANUAL STATION
	FIRE ALARM BELL OUTLET
	HOMERUN TO FACP
	END OF LINE RESISTOR - ELR
	FIRE ALARM CONTROL PANEL
	2-2.0mm <sup>2</sup> , THHN IN 15mmØ C.



4 SMOKE DETECTOR  
M-3 SCALE N.T.S.



3 FIRE ALARM BELL  
M-3 SCALE N.T.S.



2 FIRE ALARM MANUAL STATION (FS)  
M-3 SCALE N.T.S.

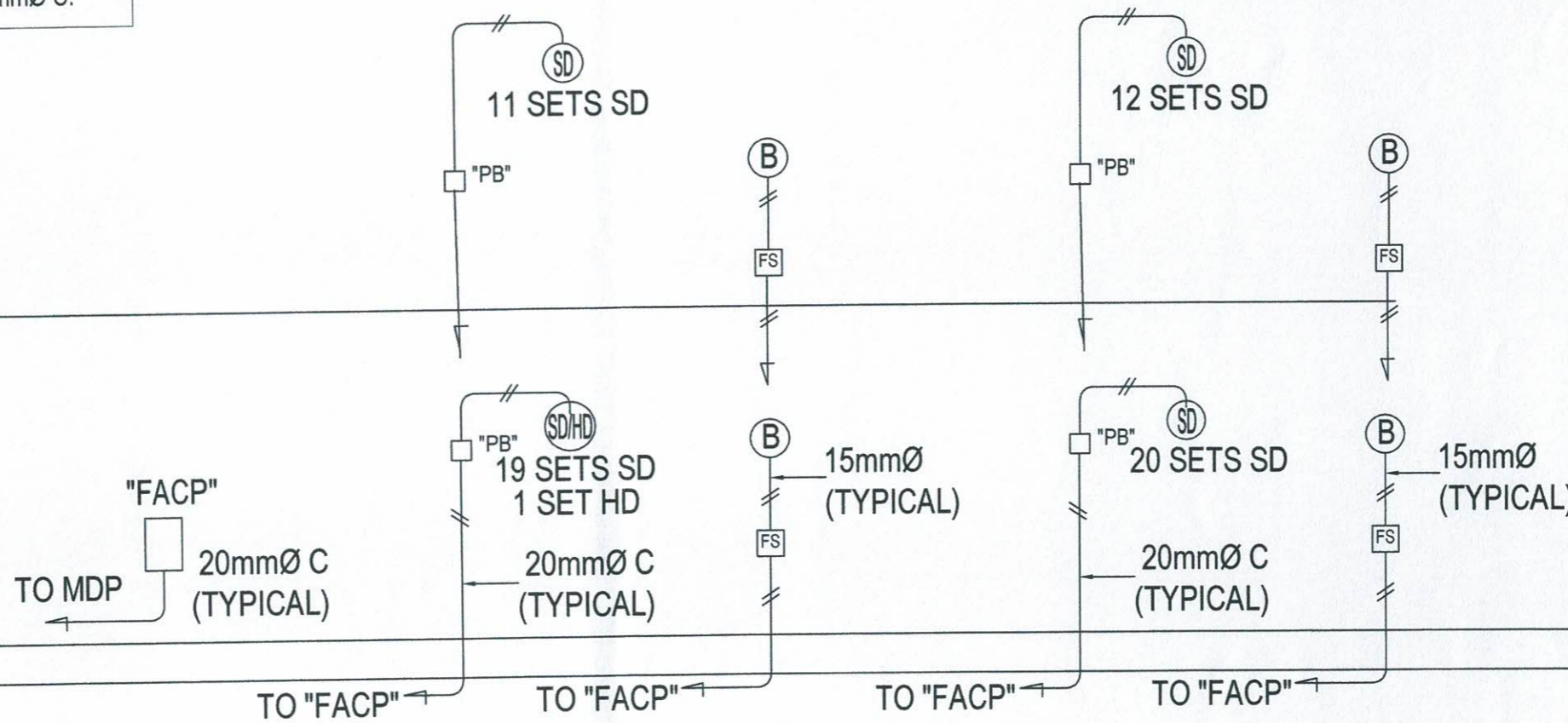
VERIFY HEIGHTS

SECOND FLOOR LEVEL

NOTE:

HASHMARKS DENOTE NUMBER OF 2.0mm<sup>2</sup> THHN

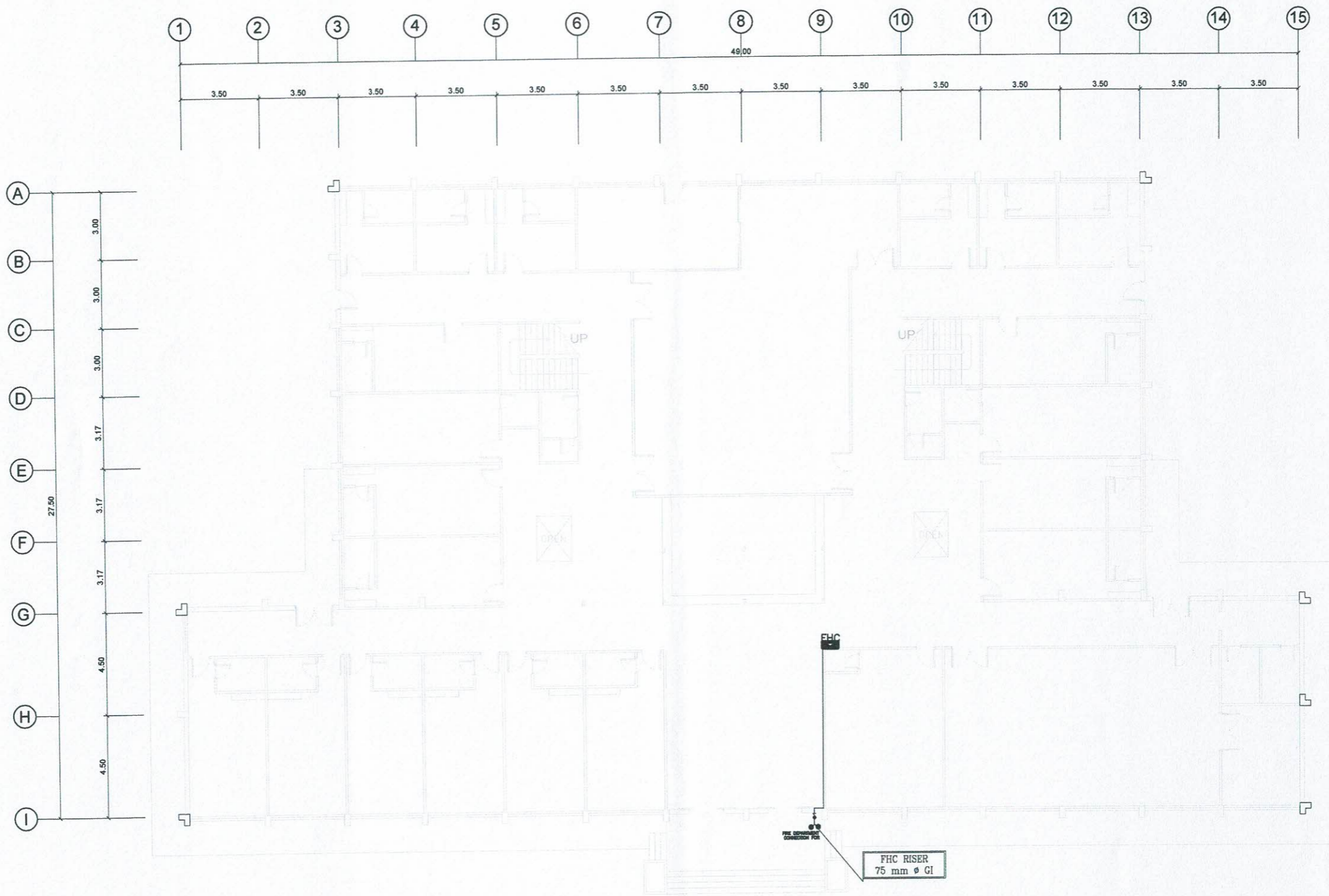
GROUND FLOOR LEVEL  
FINISHED GRADE LINE




1 FIRE ALARM SYSTEM RISER DIAGRAM (FDAS)  
(SHOWING MANUAL STATIONS, BELLS AND SMOKE DETECTORS)  
M-3 SCALE N.T.S.

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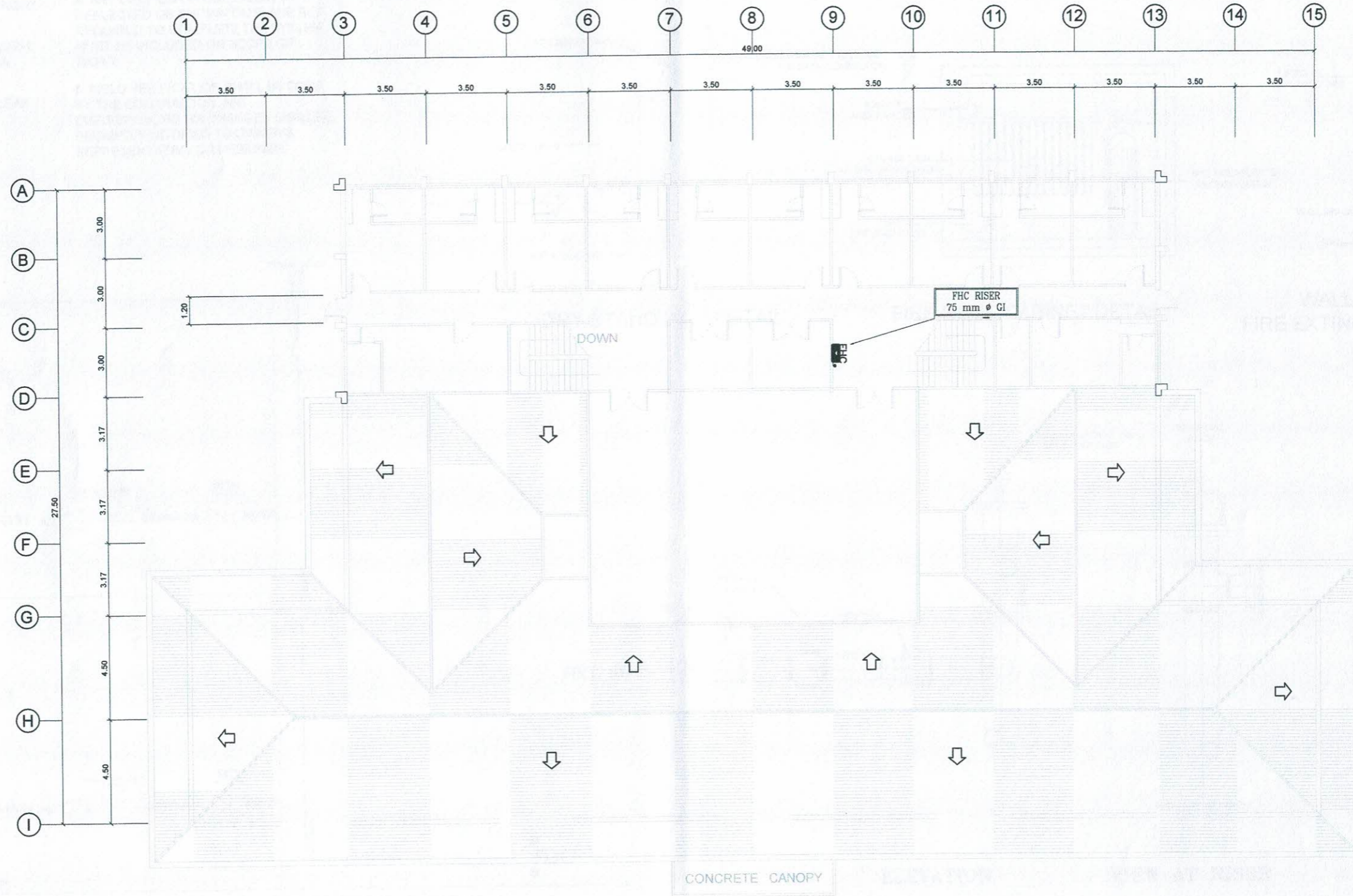





**1** GROUND FLOOR FIRE PROTECTION PLAN  
 M4 SCALE 1 : 200 MTS.

PREPARED BY:	END USER:	REVIEWED BY:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
 R. J. R. SANCHEZ PPU	P. G. C. ILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY M - 4





**1**  
**M4** 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. R. SANCHEZ PPU OVPPD	P. G. C. ILANO MANAGER HOSTEL TROPICANA	R. P. PEÑA PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. J. D. TEPORA VPPD CVSU	VPASS CVSU	H. D. ROBLES PRES CVSU	REHABILITATION OF HOSTEL TROPICANA CAVITE STATE UNIVERSITY MAIN CAMPUS	CAVITE STATE UNIVERSITY M - 5



**NOTES:**

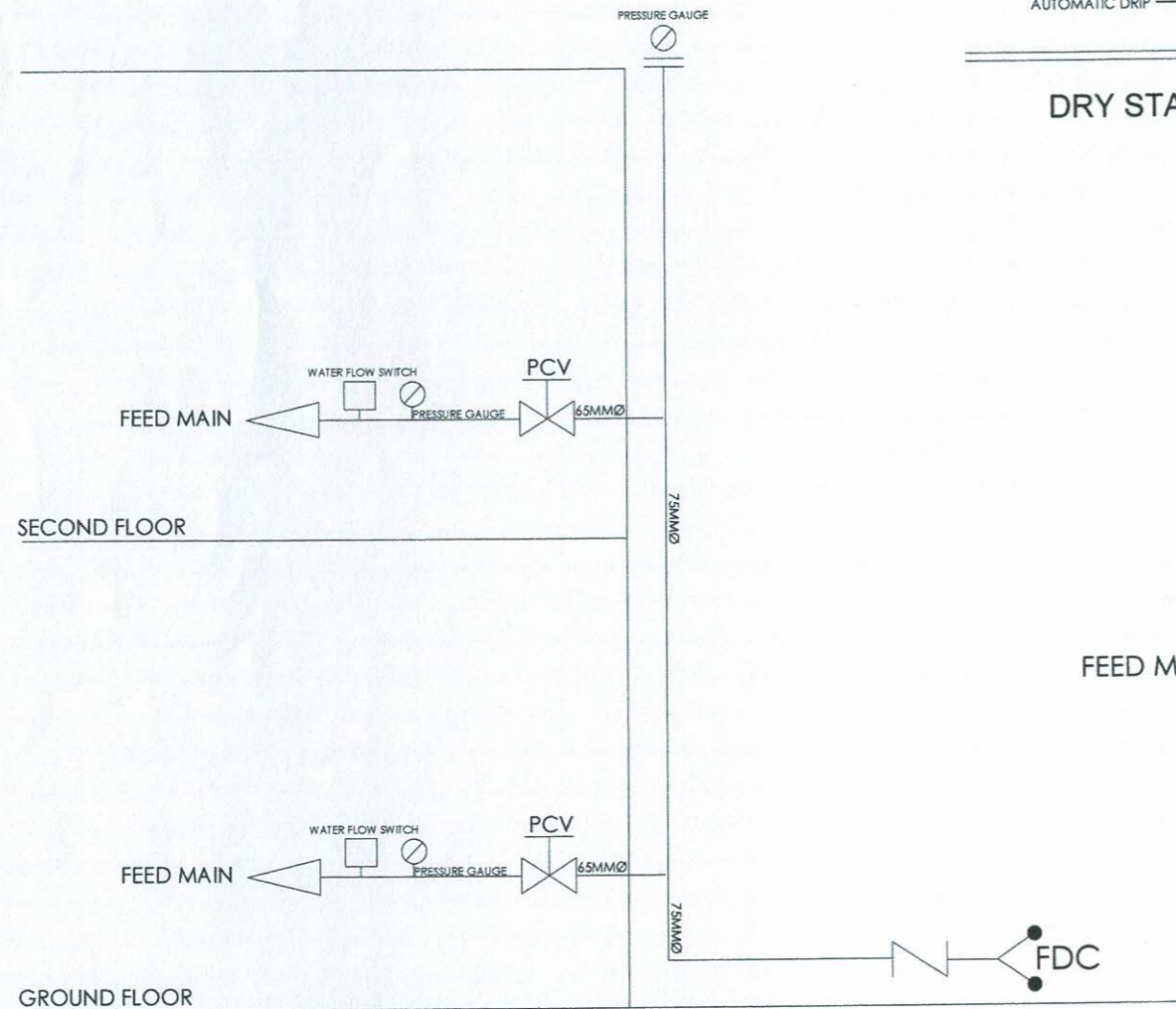
1. ALL PIPES SHALL HAVE A STRENGTH EQUIVALENT TO SCHEDULE 40

2. ALL PIPES SHALL BE PAINTED WITH EPOXY PRIMER PAINT AND WITH A RED PAINT AS FINAL COATING.

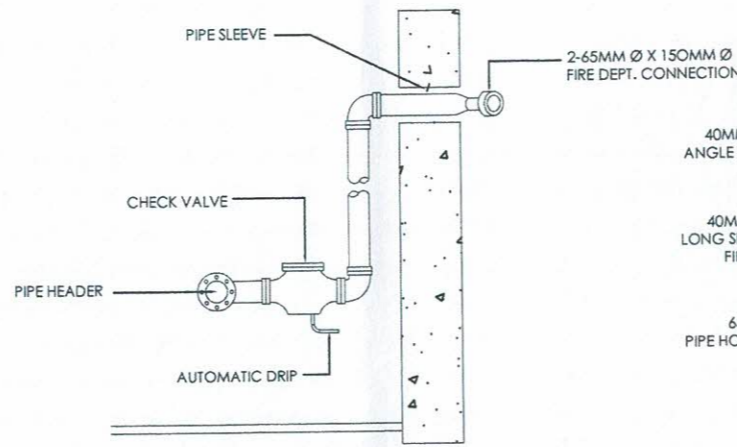
3. ALL CONNECTIONS SHALL BE LEAK PROOF AND SHALL BE ABLE TO RESIST HIGH PRESSURE.

4. ANY DEVICES OR EQUIPMENT NOT REFLECTED OR SHOWN ON PLANS BUT REQUIRED TO COMPLETE THE SYSTEM MUST BE INCLUDED ON SCOPE OF WORK.

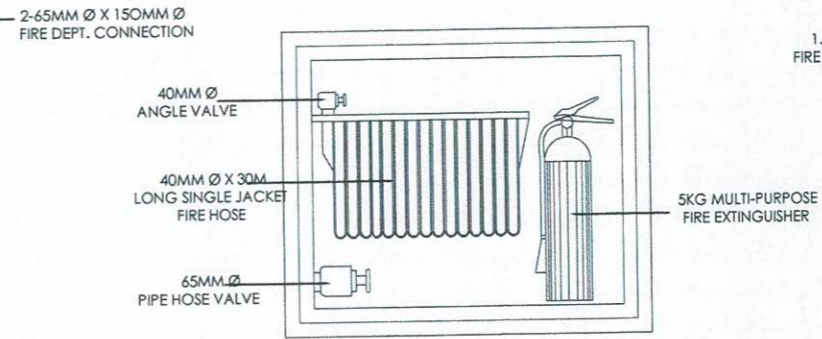
5. FIELD VERIFICATION SHALL BE DONE BY THE CONTRACTOR. ANY DISCREPANCIES OR CHANGES SHALL BE PROMPTLY NOTIFIED TO OWNER'S REPRESENTATIVE OR DESIGNER.



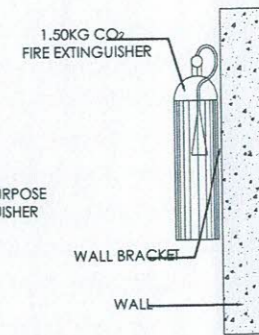
**1 RISER DIAGRAM OF FIRE PROTECTION SYSTEM**  
M-6 SCALE NTS



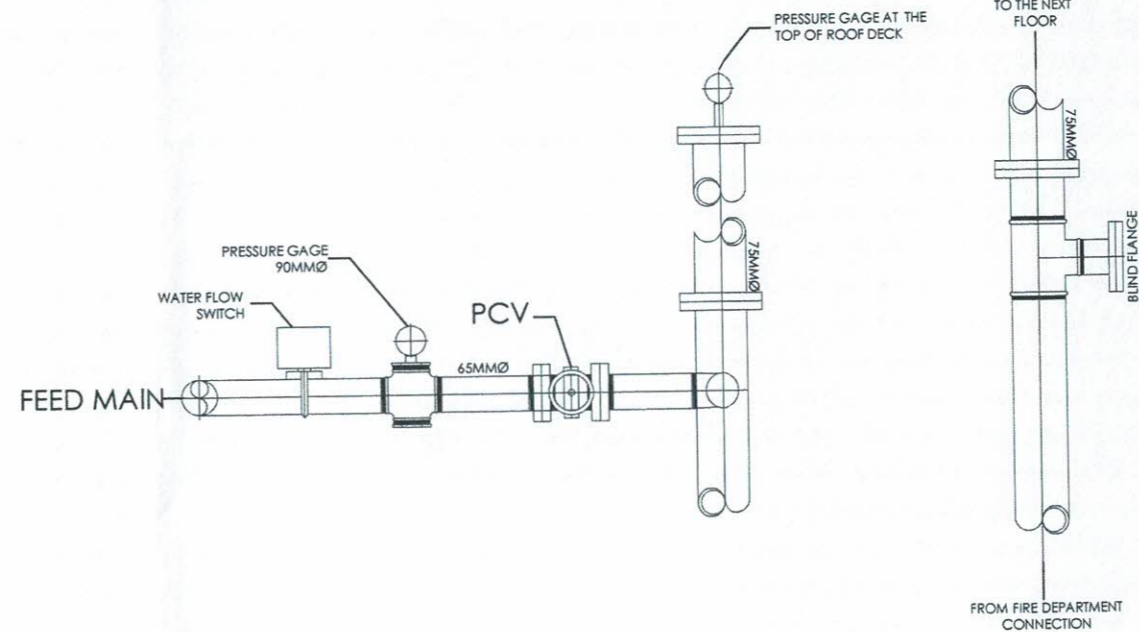
**DRY STAND PIPE DETAIL**



**FIRE HOSE CABINET DETAIL**



**WALL MOUNTED FIRE EXTINGUISHER DETAIL**



**ELEVATION**

**VIEW AT RISER**

**2 SUPERVISORY FLOOR CONTROL VALVE ASSEMBLY DETAILS**  
M-6 SCALE NTS

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**LEGEND AND SYMBOLS :**

	GATE VALVE		PIPING SYSTEM
	CHECK VALVE		PRESSURE RELIEF VALVE
	WATER FLOW SWITCH		PENDENT/UPRIGHT SPRINKLER
	TEE CONNECTION		SIDE WALL SPRINKLER
	ELBOW CONNECTION		FIRE EXTINGUISHER
	OS & Y GATE VALVE WITH MONITOR SWITCH		SMOKE DETECTOR
	END CAP		EAGLE HCFC 123 (dichlorotrifluoroethane) Ceiling Type Fire Extinguisher, Stored Pressure type
<b>C.I.</b>	CONCENTRIC INCREASER, OPTIONAL	<b>WFS</b>	WATER FLOW SWITCH
<b>ER</b>	ECCENTRIC REDUCER, OPTIONAL	<b>PRV</b>	PRESSURE REDUCING VALVE
<b>RN</b>	RISER NIPPLE	<b>FP</b>	FIRE PUMP
<b>BFV</b>	BUTTERFLY VALVE, WAFER TYPE	<b>JP</b>	JOCKEY PUMP
<b>GV</b>	GATE VALVE, RISING STEM	<b>FA</b>	FIRE ALARM
<b>GV</b>	GATE VALVE, RISING STEM	<b>B</b>	BELL
<b>WCV</b>	WAFER TYPE CHECK VALVE	<b>PG</b>	PRESSURE GAUGE
<b>CV</b>	SWING TYPE CHECK VALVE	<b>PCV</b>	PRESSURE CONTROL VALVE W/ SUPERVISORY SWITCH
<b>SG</b>	SIGHT GLASS	<b>FDC</b>	FIRE DEPARTMENT CONNECTION

**GENERAL NOTES:**

- INSTALLATION OF FIRE SPRINKLER SYSTEM SHALL CONFORM TO NFPA-13 REQUIREMENTS.
- COORDINATE WITH OTHER WORKS, INCLUDING THE PLUMBING PIPING AS NECESSARY TO INTERFACE COMPONENTS OF FIRE PROTECTION PIPING PROPERLY WITH OTHER WORKS
- SPRINKLER SHALL BE SPACED NOT LESS THAN 6 FT (1.8 M) ON CENTERS.
- PROVIDE 10 LBS HALOTRON PORTABLE FIRE EXTINGUISHERS TO ALL ELECTRICAL ROOM AND TO OTHER ROOM OF THE SAME USAGE.
- ALL PIPES SHALL BE PROVIDED WITH THE PIPE SLEEVE THROUGH BEAMS, WALL, AND FLOORS.
- PROVIDE AT LEAST ONE (1) HANGER BETWEEN EACH TWO (2) BRANCH LINES.
- LATERAL AND LONGITUDINAL SWAY BRACES SPACED AT MAXIMUM OF 12.2 M AND 24 M ON CENTER RESPECTIVELY SHALL BE PROVIDED AT ALL PIPE LINES WITH DIAMETER OF 150 MM AND LARGER.
- PROVIDE FLANGE CONNECTION AT MAXIMUM INTERVAL OF 12 METERS.
- ALL PORTABLE FIRE EXTINGUISHERS INSIDE FIRE HOSE CABINET (FHC) SHALL BE CLASS "ABC" DRY CHEMICAL UNLESS OTHERWISE SPECIFIED.
- PROVIDE 50 LBS WHEELED TYPE HALOTRON PORTABLE FIRE EXTINGUISHER IN TRANSFORMER VAULTS.
- WHERE SPRINKLER PASSES THROUGH SEISMIC SEPARATION ASSEMBLIES, FLEXIBLE SHALL BE PROVIDED.
- PROVIDE AUXILIARY DRAIN FOR TRAPPED SECTION AS REQUIRED BY NFPA-13.
- THE DISTANCE BETWEEN THE HANGER AND CENTER OF LINE OF AN UPRIGHT SPRINKLER HEAD SHALL NOT BE LESS THAN 76 MM.
- PROVIDE NECESSARY EARTHQUAKE PROTECTION AS REQUIRED UNDER NFPA-13 AND APPLICABLE BUILDING CODE.
- PIPING SHALL BE CONCEALED IN AREAS WITH DROP CEILINGS.
- INSTALL IRON PIPE SLEEVES OF AMPLE DIAMETER AT ALL POINTS WHERE PIPES PENETRATE BEAMS, FLOOR OR WALLS. SIZE AND INSTALL SO THAT THE PIPES ARE NOT STRESSED.
- SLEEVES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF WALLS OR POURING OF CONCRETE. INSTALL SLEEVES FLUSH WITH ALL SURFACES.
- THE CONTRACTOR MUST SUBMIT SHOP DRAWING INDICATING ACTUAL DIMENSIONAL SIZES, OPERATING WEIGHTS, AND SUFFICIENT CLEARANCES TO FACILITATE NORMAL SERVICE AND MAINTENANCE, HOWEVER, SHOULD ACTUAL EQUIPMENT PHYSICALLY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHOULD NOTIFY THE ARCHITECT IN WRITING.
- ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATION OF THE LATEST EDITION OF THE PHILIPPINE MECHANICAL CODE.
- ALL MECHANICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISOR OF A DULY LICENSED REGISTERED MECHANICAL ENGINEER.

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