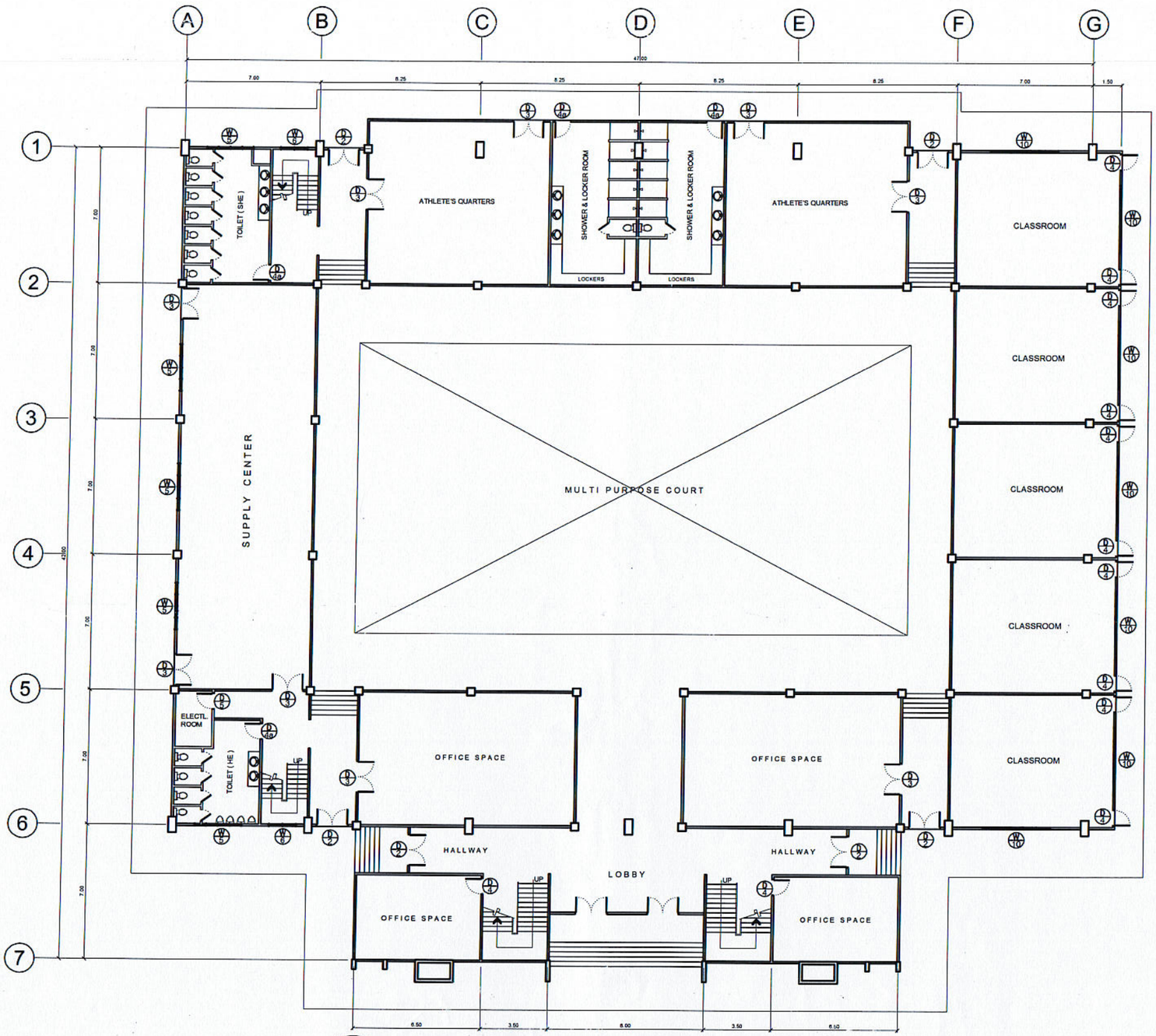
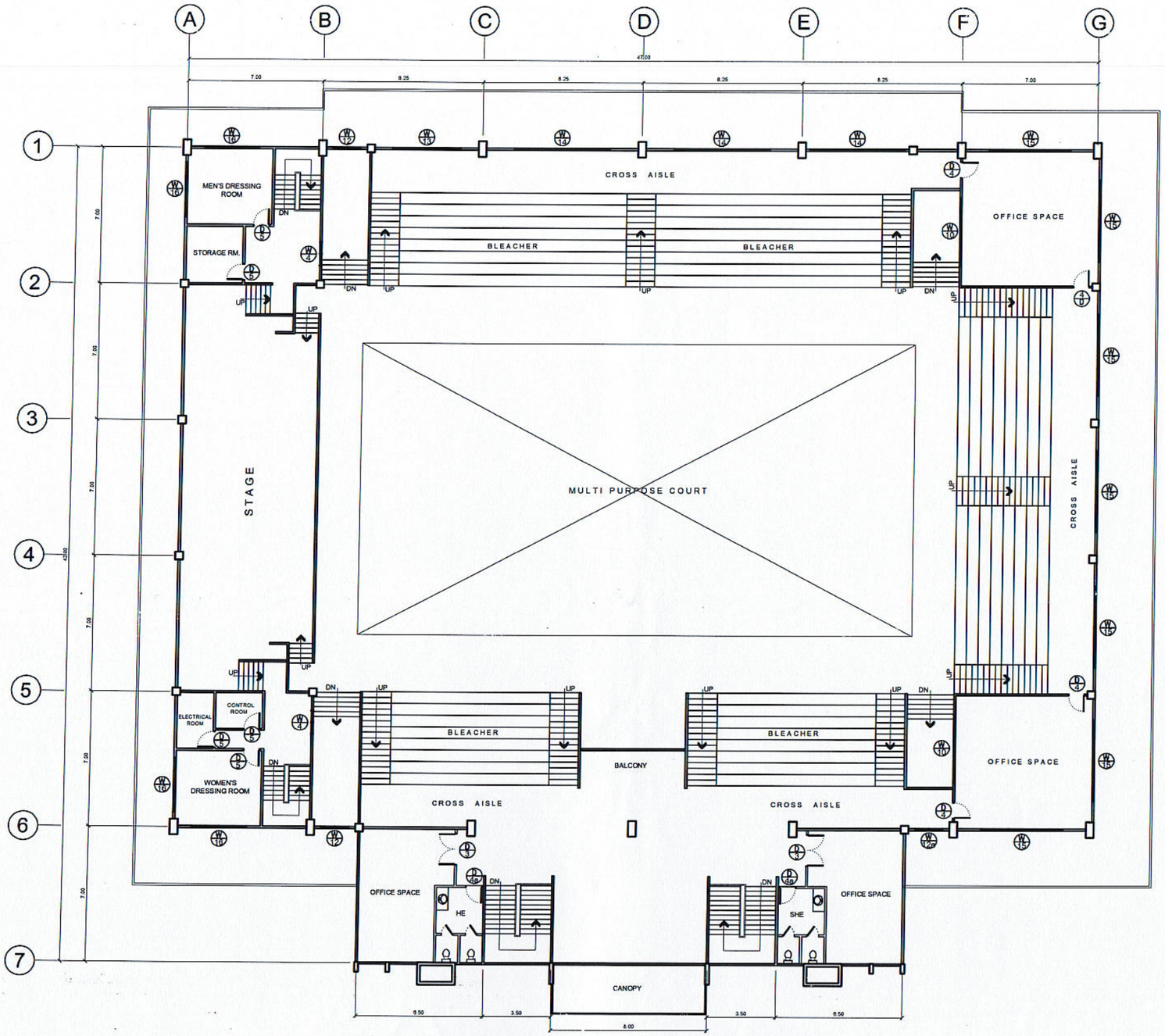


LOWER FLOOR PLAN

SCALE 1 : 250 MTS.

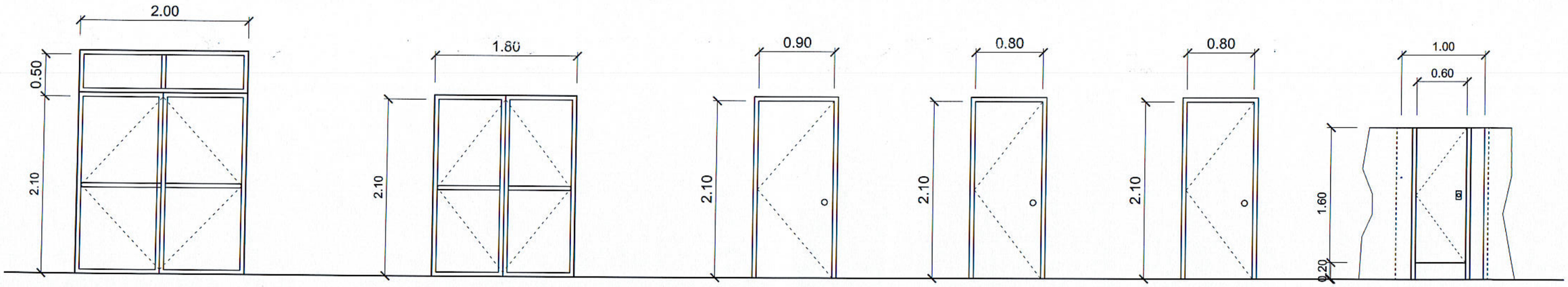
CADD BY:						
E. N. RODEROS JR. PPU OVPPD						
END USER:	ENDORSED BY:	REC. APPROVAL:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY / SHT NO:
J. P. CUBILLO DEAN CSPEAR	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR 4.28.20 VPPPD CVSU	C. A. POLINGA VPABS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY A - 1



UPPER FLOOR PLAN

SCALE 1 : 250 MTS.

CADD BY: E. N. RODEROS JR. PPU OVPPD						
END USER: J. P. CUBILLO DEAN CSPEAR	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING OFFICE	REC. APPROVAL: M. M. ESCOBAR 4/28/22 VPPPD CVSU	REC. APPROVAL: C. A. POLINGA VPASS CVSU	APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/ LOCATION: PROPOSED ELECTRICAL REWIRING - HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO: A - 2



ALUMINUM FRAME DOOR COMPLETE W / ALL ACCESSORIES W / $\frac{3}{8}$" THK. REFLECTIVE TEMPERED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING
6 SETS

D / 2

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

D / 3

0.90 X 2.10 STEEL DOOR W/ COMPLETE ACCESSORIES
16 SETS

D / 4

0.80 X 2.10 STEEL DOOR W/ W/ COMPLETE ACCESSORIES
6 SETS

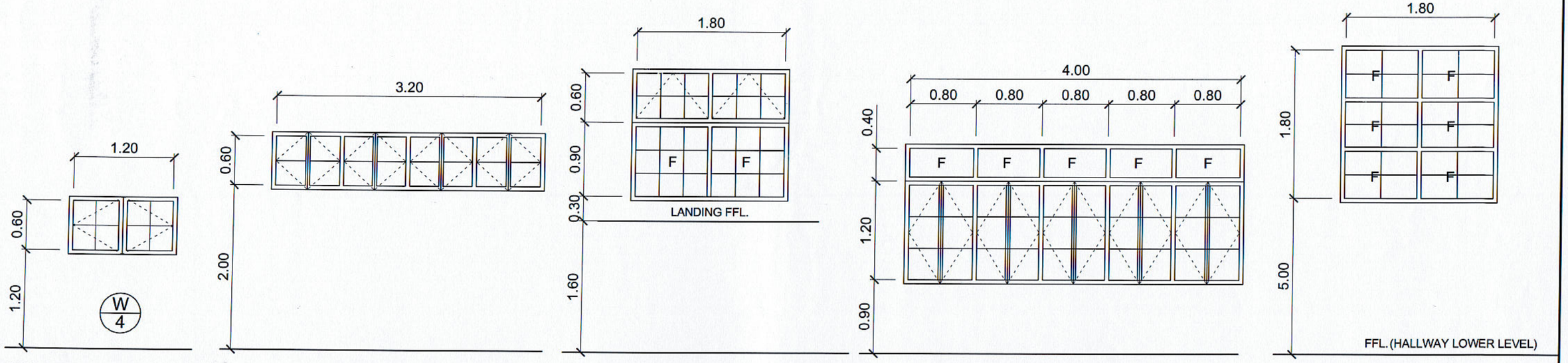
D / 4a

0.80 X 2.10 STEEL DOOR W/ W/ COMPLETE ACCESSORIES
6 SETS

D / 5

0.60 X 1.60 ALUMINUM DOOR W/ COMPLETE ACCESSORIES
17 SETS

D / 5



ALUMINUM CASEMENT WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS
2 SETS

W / 4

ALUMINUM CASEMENT WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS
5 SETS

W / 5

ALUMINUM AWNING WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS
2 SETS

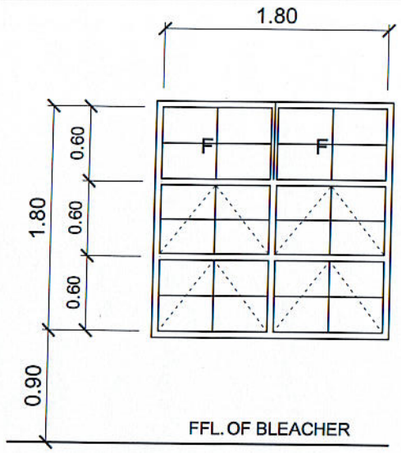
W / 6

ALUMINUM CASEMENT WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS
9 SETS

W / 10

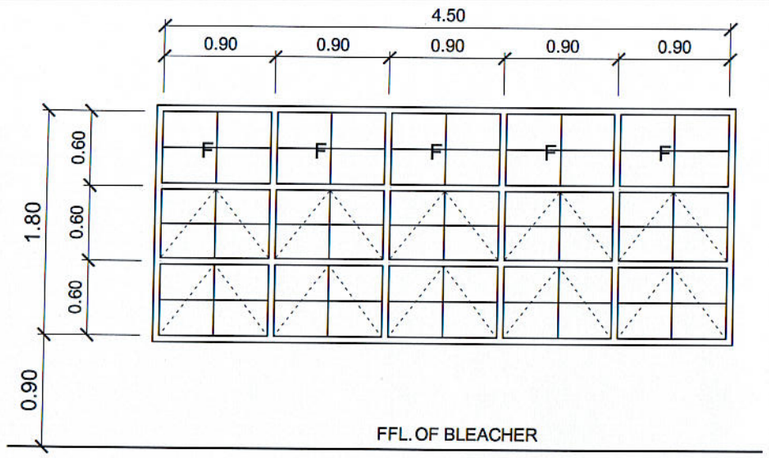
W / 12 ALUMINUM FIXED WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS
2 SETS

CADD BY:						
E. N. RODEROS JR. PPU SVPPD						
END USER:	ENDORSED BY:	REC. APPROVAL:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
J. P. CUBILLO DEAN CSPEAR	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR 4-28-21 VPPPD CVSU	C. A. POLINGA VRADS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 3



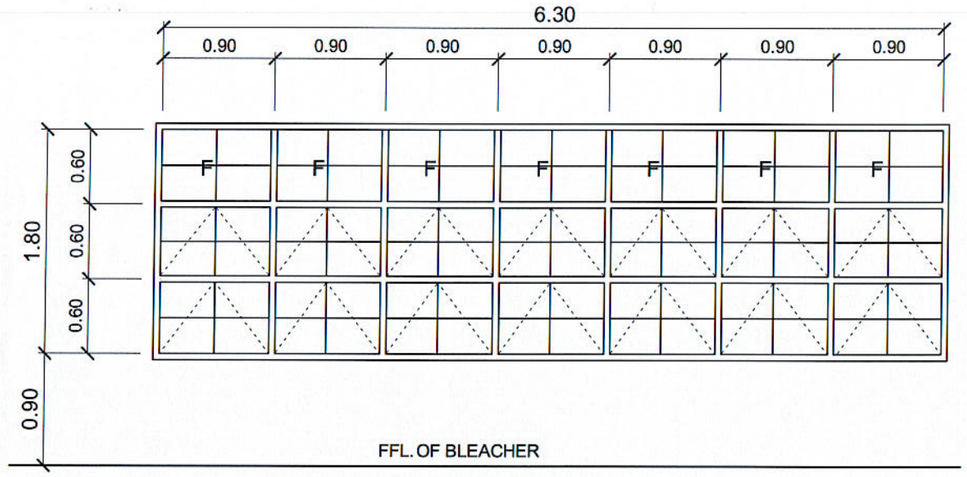
W / 12a

ALUMINUM AWNING WINDOW
COMPLETE W / ALL ACCESSORIES
W / 1/4" THK COLORED GLASS
1 SET



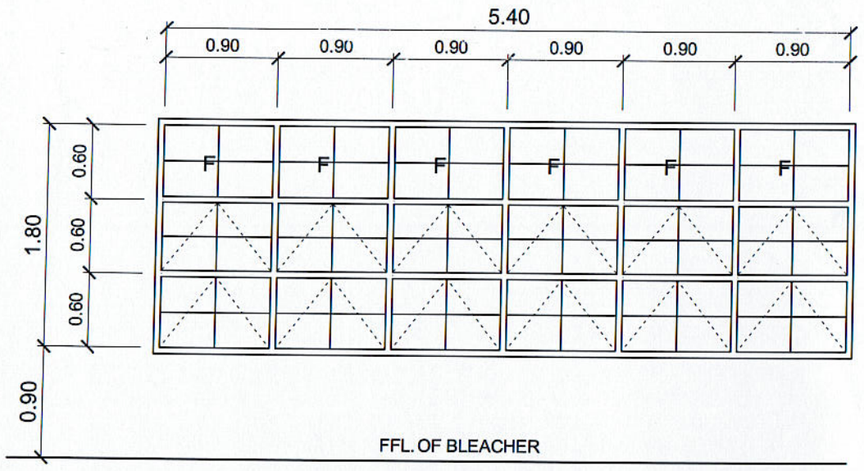
W / 13

ALUMINUM AWNING WINDOW
COMPLETE W / ALL ACCESSORIES
W / 1/4" THK COLORED GLASS
1 SET



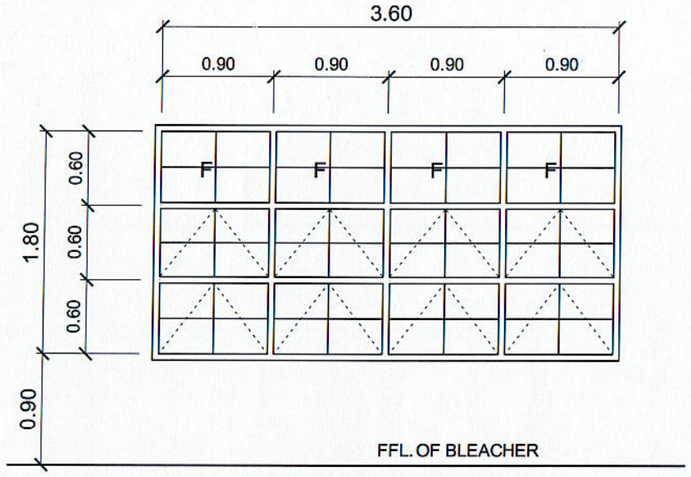
W / 14

ALUMINUM AWNING WINDOW
COMPLETE W / ALL ACCESSORIES
W / 1/4" THK COLORED GLASS
3 SETS



W / 15

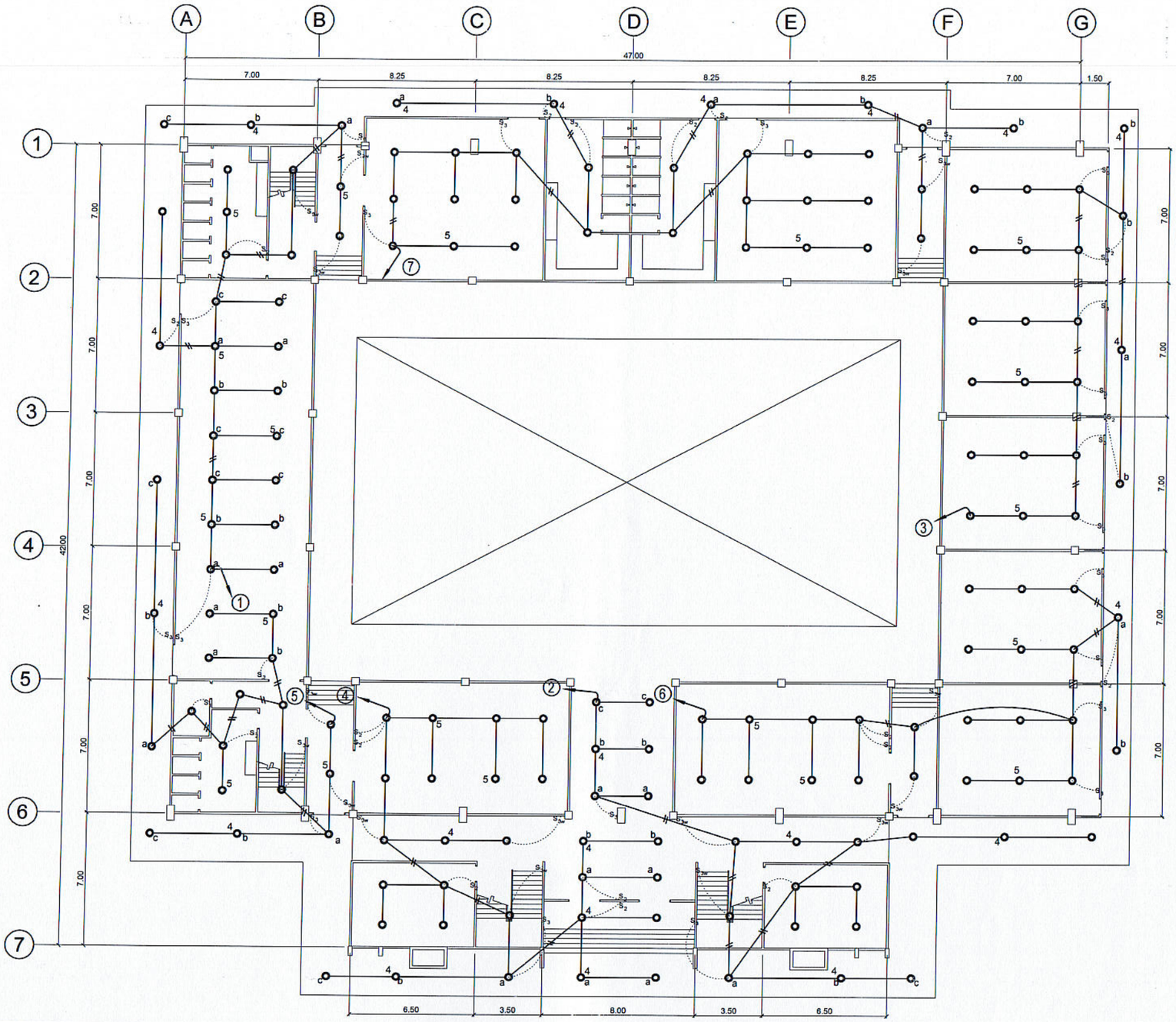
ALUMINUM AWNING WINDOW
COMPLETE W / ALL ACCESSORIES
W / 1/4" THK COLORED GLASS
7 SETS



W / 16

ALUMINUM AWNING WINDOW
COMPLETE W / ALL ACCESSORIES
W / 1/4" THK COLORED GLASS
4 SETS

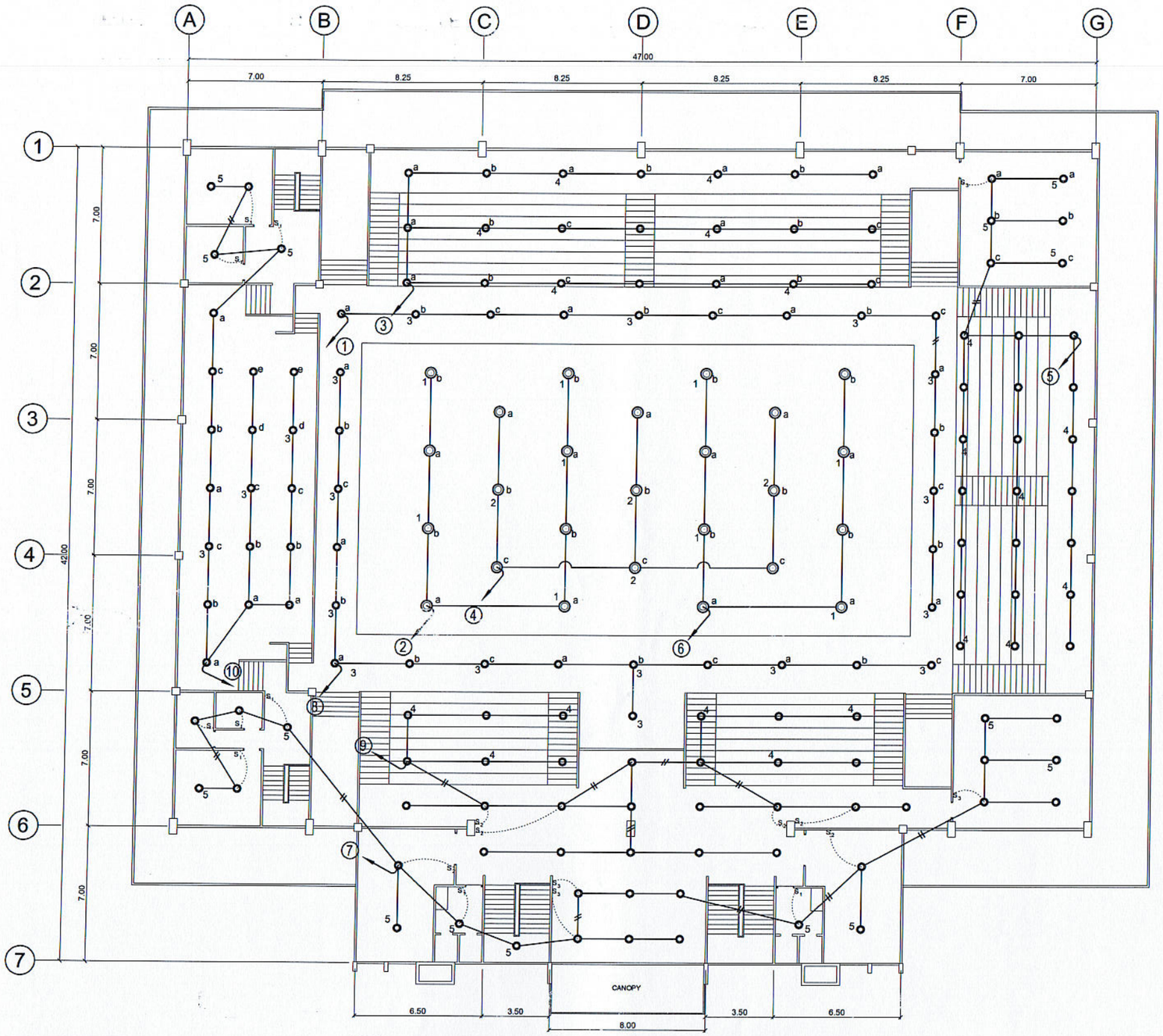
CADD BY:						
E. N. RODEROS JR. PPU OVPPD						
END USER:	ENDORSED BY:	REC. APPROVAL:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
J. P. CUBILLO DEAN CSPEAR	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 4



LOWER FLOOR LIGHTING LAYOUT

SCALE 1 : 250 MTS.

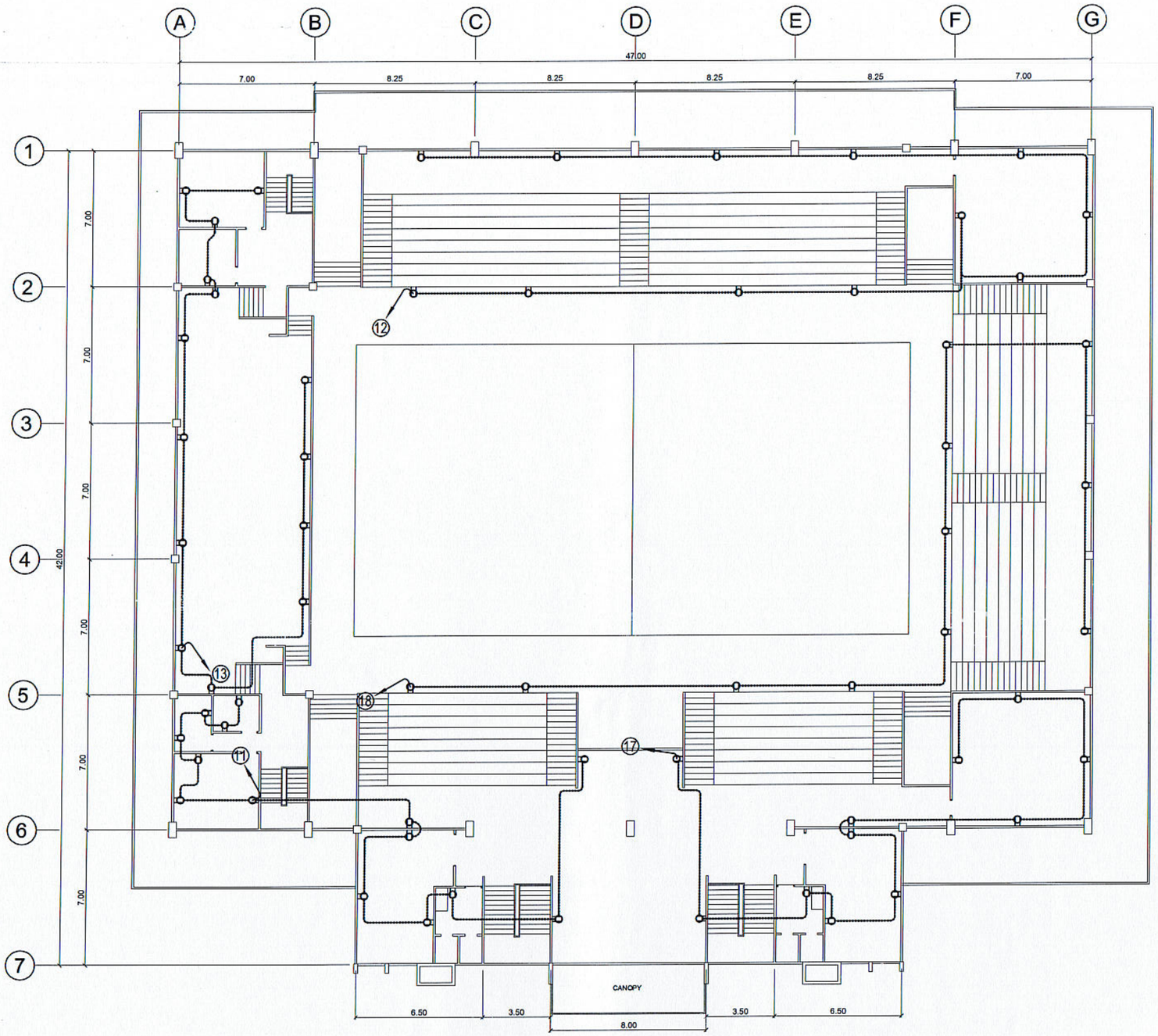
CADD BY:	END USER:					
E. N. RODEROS JR. PPU OVPPD	J. P. CUBILLO DEAN CSPEAR					
ELECTL. ENGR.	**ENDORSED BY:**	**REC. APPROVAL:**	**REC. APPROVAL:**	**APPROVED BY:**	**PROJECT TITLE/ LOCATION:**	**IMPLEMENTING AGENCY**	**SHT NO:**
EFREN ROCILLO PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR 4-28-22 VPPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 1



UPPER FLOOR LIGHTING LAYOUT

SCALE 1 : 250 MTS.

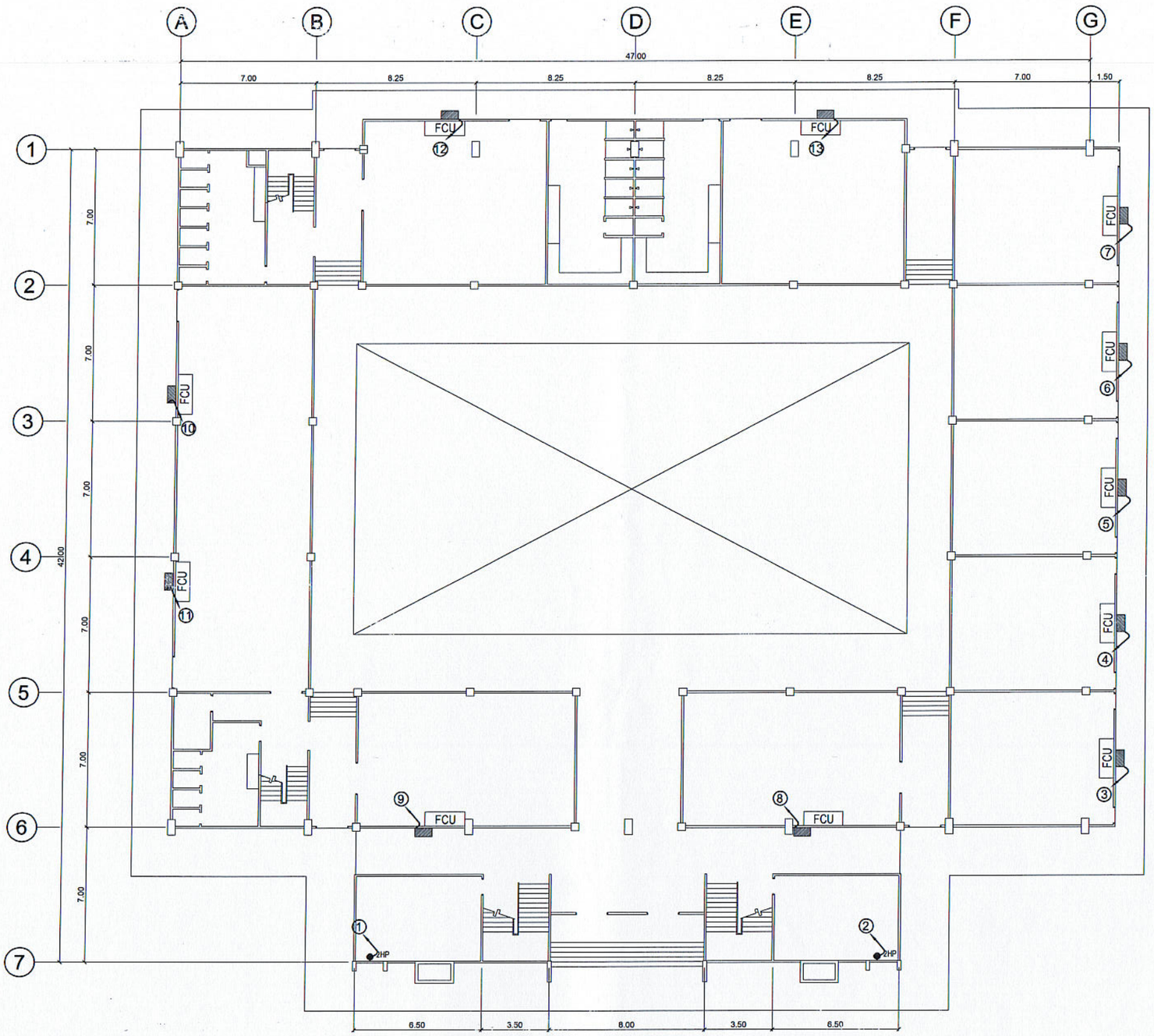
CADD BY:	END USER:					
E. N. RODEROS JR. PPU OVPPD	J. P. CUBILLO DEAN CSPEAR					
ELECTL. ENGR.	ENDORSED BY:	REC. APPROVAL:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
EFREN ROCILLO PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 2



UPPER FLOOR POWER LAYOUT

SCALE 1 : 250 MTS.

CADD BY:	END USER:					
E. N. RODEROS JR. PPU OVPPD	J. P. CUBILLO DEAN CSPEAR					
ELECTL. ENGR.	ENDORSED BY:	REC. APPROVAL:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
EFREN ROCILLO PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 4

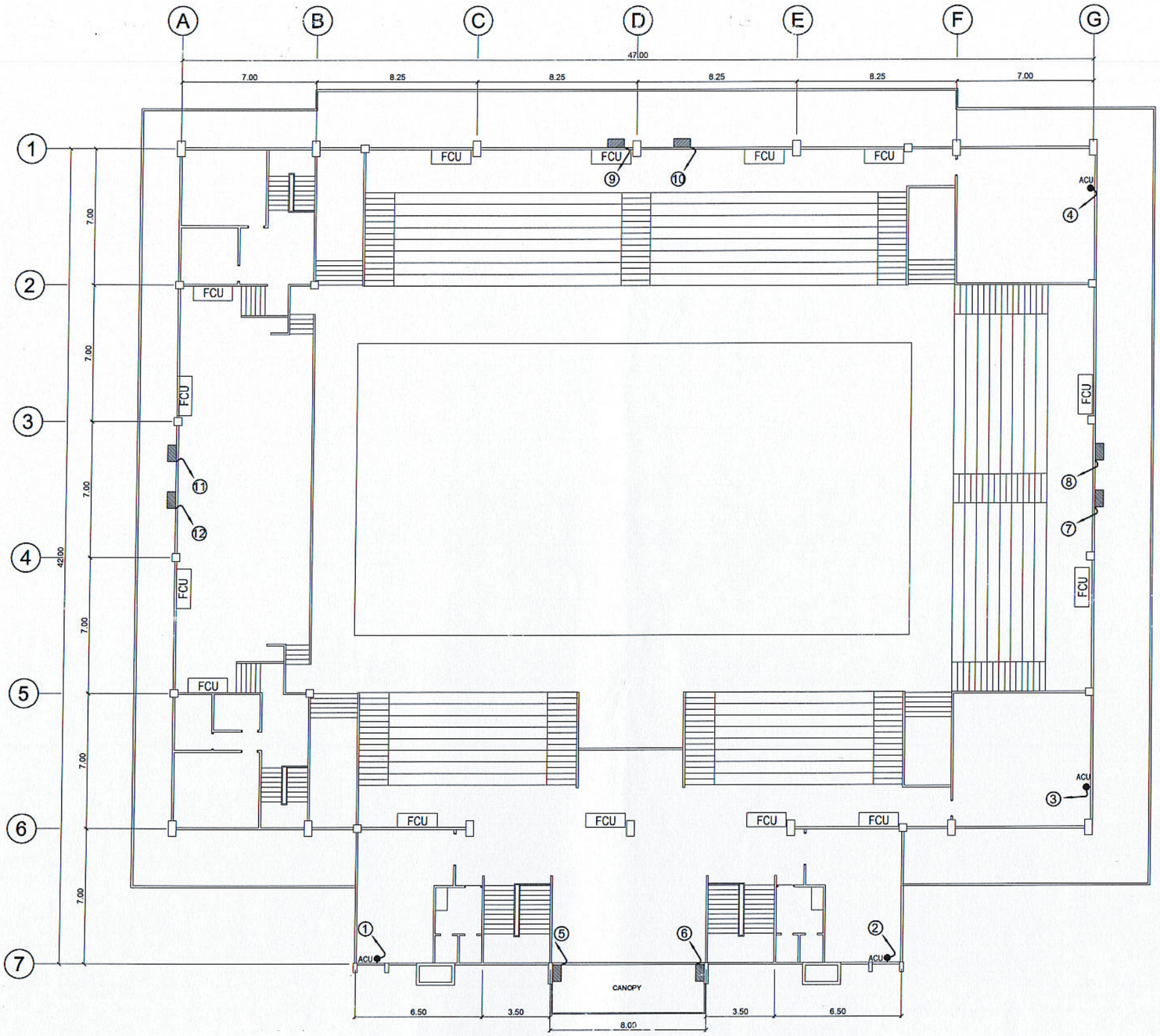


LOWER FLOOR ACU LAYOUT

SCALE 1 : 250 MTS.

CADD BY:	END USER:
E. N. RODEROS JR. PPU OVPPD	J. P. CUBILLO DEAN CSPEAR

ELECTL. ENGR.	ENDORSED BY:	REC. APPROVAL:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
EFREN ROCILLO PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 5



UPPER FLOOR ACU LAYOUT

SCALE 1 : 250 MTS.

CADD BY:	END USER:					
E. N. RODEROS JR. PPU OVPPD	J. P. CUBILLO DEAN CSPEAR					
ELECTL. ENGR.	**ENDORSED BY:**	**REC. APPROVAL:**	**REC. APPROVAL:**	**APPROVED BY:**	**PROJECT TITLE/ LOCATION:**	**IMPLEMENTING AGENCY**	**SHT NO:**
EFREN ROCILLO PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 6

SCHEDULE OF LOADS

PANEL BOARD: LOWER FLOOR ACU PANEL (LFAP)

3 - Phase 3 - Wire + Ground, 230 volts surface mounted

Circuit No.	PANEL DESCRIPTION	No. OF OUTLETS	VOLTS	VOLT-AMPS	AMPERE				Size of Conductor			Size Of Conduit	NEMA 1 ENCLOSURE Circuit Protection			
					3-Ø (ABC)	AB	BC	CA	SQ. MM THHN		SQ. MM THW(G	In MM ø	AT	AF	POLE	TYPE
1	ACU (2HP)	1	230	2830		12.30			2- 3.5	+	1- 2.0 THW	15	30	100	2	B - ON
2	ACU (2HP)	1	230	2830		12.30			2- 3.5	+	1- 2.0 THW	15	30	100	2	B - ON
4	ACU (3TR)	1	230	4140				29.48	2- 8.0	+	1- 3.5 THW	20	50	100	2	B - ON
3	ACU (3TR)	1	230	4140				29.48	2- 8.0	+	1- 3.5 THW	20	50	100	2	B - ON
8	ACU (3TR)	1	230	4140			29.48		2- 8.0	+	1- 3.5 THW	20	50	100	2	B - ON
5	ACU (3TR)	1	230	4140			29.48		2- 8.0	+	1- 3.5 THW	20	50	100	2	B - ON
6	ACU (3TR)	1	230	4140		29.48			2- 8.0	+	1- 3.5 THW	20	50	100	2	B - ON
7	ACU (3TR)	1	230	4140		29.48			2- 8.0	+	1- 3.5 THW	20	50	100	2	B - ON
9	ACU (3TR)	1	230	4140				29.48	2- 8.0	+	1- 3.5 THW	20	50	100	2	B - ON
10	SPARE		230	2830			12.30		PROVIDE STUB OUT			15	30	100	2	B - ON
11	SPARE		230	2830			12.30		PROVIDE STUB OUT			15	30	100	2	B - ON
12	SPARE		230	1000					PROVIDE STUB OUT			15	30	100	2	B - ON
13	ACU (5TR)	1	230	11743	31.45				3- 8.0 (R/B/Y)	+	1- 5.5 THW	20	50	150	3	B - ON
14	ACU (5TR)	1	230	11743	31.45				3- 8.0 (R/B/Y)	+	1- 5.5 THW	20	50	150	3	B - ON
15	ACU (5TR)	1	230	11743	31.45				3- 8.0 (R/B/Y)	+	1- 5.5 THW	20	50	150	3	B - ON
16	ACU (5TR)	1	230	11743	31.45				3- 8.0 (R/B/Y)	+	1- 5.5 THW	20	50	150	3	B - ON
	TOTAL		230	88272	126	84	84	88	3 - 100(R/B/Y)	+	1- 80 THW	50	350	400	3	B - ON

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

I_{FL} = [(126+ 88* 1.732)+ (0.25 x 29.48)] DF = 228.63 *Amperes*

USE:

FEEDER: 3 - 100 SQ. MM THHN + 1 - 80 SQ MM THW (G) in - 50 MM dia IMC or Equiv.

I_{cb} = [(126+ 88 x 1.732)+ (2.5 x 29.48))/ 1.15] Div F = 306.19 *Amperes*

USE:

MAIN CB : 350 AT,400 AF, 3P, 230V, 25 kaic

PANEL BOARD: UPPER FLOOR ACU PANEL (LFAP)

3 - Phase 3 - Wire + Ground, 230 volts surface mounted

Circuit No.	PANEL DESCRIPTION	No. OF OUTLETS	VOLTS	VOLT-AMPS	AMPERE				Size of Conductor			Size Of Conduit	NEMA 1 ENCLOSURE Circuit Protection			
					3-Ø	AB	BC	CA	SQ. MM THHN		SQ. MM THW(G	In MM ø	AT	AF	POLE	TYPE
1	ACU (2HP)	1	230	2830		12.30			2- 5.5	+	1- 3.5 THW	15	30	100	2	B - ON
2	ACU (2HP)	1	230	2830		12.30			2- 5.5	+	1-3.5 THW	15	30	100	2	B - ON
3	ACU (2HP)	1	230	2830				12.30	2- 5.5	+	1- 3.5 THW	15	30	100	2	B - ON
4	ACU (2HP)	1	230	2830				12.30	2- 5.5	+	1- 3.5 THW	15	30	100	2	B - ON
5	SPARE								PROVIDE STUB OUT							
6	SPARE								PROVIDE STUB OUT							
7	ACU (20TR)	1	230	40314	101.2				3-38.0	+	1- 22.0 THW	50	125	150	3	B - ON
8	ACU (20TR)	1	230	40314	101.2				3-38.0	+	1- 22.0 THW	50	125	150	3	B - ON
9	ACU (20TR)	1	230	40314	101.2				3-38.0	+	1- 22.0 THW	50	125	150	3	B - ON
10	ACU (20TR)	1	230	40314	101.2				3-38.0	+	1- 22.0 THW	50	125	150	3	B - ON
11	ACU (20TR)	1	230	40314	101.2				3-38.0	+	1- 22.0 THW	50	125	150	3	B - ON
12	ACU (20TR)	1	230	40314	101.2				3-38.0	+	1- 22.0 THW	50	125	150	3	B - ON
13	ACU (10TR)	1	230		52.8				3-14.0	+	1- 22.0 THW	20	70	100	2	B - ON
14	ACU (10TR)	1	230		52.8				3-14.0	+	1- 22.0 THW	20	70	100	2	B - ON
15	SPARE								PROVIDE STUB OUT							
16	SPARE								PROVIDE STUB OUT							
	TOTAL		230	11320	713	25	0	25	3 sets of 3-80	+	1- 60 THW	50	800	1000	3	B - ON

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

I_{FL} = [713 + 25* 1.732+ (0.25 x 25)] DF = 610.04 *Amperes*

USE:

FEEDER: 3 sets of 3-80 SQ. MM THHN + 1 - 60 SQ MM THW (G) in - 50 MM dia IMC or Equiv.

I_{cb} = [713+ 25 x 1.732+ (2.5 x 25))/ 1.15] Div F = 712.00 *Amperes*

USE:

MAIN CB : 800 AT,1000 AF, 3P, 230V, 25 kaic

CADD BY:	END USER:
E. N. RODEROS JR. PPU OVPPD	J. P. CUBILLO DEAN CSPEAR

ELECTL. ENGR.	ENDORSED BY:	REC. APPROVAL:	REC. APPROVAL	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
EFREN ROCILLO PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 7

SCHEDULE OF LOADS

PANEL BOARD: LOWER FLOOR LP PANEL (LFLPP)

3 - Phase 3 - Wire + Ground, 230 volts surface mounted

Circuit No.	PANEL DESCRIPTION	No. OF OUTLETS	VOLTS	VOLT-AMPS	AMPERE				Size of Conductor		Size Of Conduit	NEMA 1 ENCLOSURE Circuit Protection			
					3-Ø	AB	BC	CA	SQ. MM THHN	SQ. MM THW(G	In MM ø	AT	AF	POLE	TYPE
1	LIGHTING OUTLET	23	230	2,300.00		10.00			2- 2.0 +	1- 2.0 THW	15	15	100	2	B - ON
2	LIGHTING OUTLET	20	230	2,000.00		8.70			2- 2.0 +	1- 2.0 THW	15	15	100	2	B - ON
3	LIGHTING OUTLET	22	230	2,200.00				9.57	2- 2.0 +	1- 2.0 THW	15	15	100	2	B - ON
4	LIGHTING OUTLET	27	230	2,700.00				11.74	2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
5	LIGHTING OUTLET	18	230	1,800.00			7.83		2-2.0 +	1- 2.0 THW	15	15	100	2	B - ON
6	LIGHTING OUTLET	24	230	2,400.00			10.43		2- 2.0 +	1- 2.0 THW	15	15	100	2	B - ON
7	LIGHTING OUTLET	30	230	3,000.00		13.04			2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
8	CONV. OUTLET	12	230	2,400.00		10.43			2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
9	CONV. OUTLET	15	230	3,000.00				13.04	2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
10	CONV. OUTLET	12	230	2,400.00				10.43	2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
11	CONV. OUTLET	12	230	2,400.00			10.43		2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
12	CONV. OUTLET	12	230	2,400.00			10.43		2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
13	CONV. OUTLET	13	230	2,600.00		11.30			2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
14	SPARE		230	2,000.00		8.70			PROVIDE STUB OUT		15	20	100	2	B - ON
15	SPARE		230	2,000.00			8.70		PROVIDE STUB OUT		15	20	100	2	B - ON
16	SPARE		230	2,000.00				8.70	PROVIDE STUB OUT		15	20	100	2	B - ON
	TOTAL		230	37,600.00		62	48	53	3- 14.0 +	1- 8.0 THW	20	100	150	3	B - ON

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

I_{FL} = [62* 1.732+ (0.25 x 0)] DF = 85.91 *Amperes*

USE:

FEEDER: 3 - 14.0 SQ. MM THHN (R/B/Y) + 1 - 8.0 SQ MM THW (G) in - 20 MM dia IMC or Equiv.

I_{cb} = [62 x 1.732+ (2.5 x 0)/ 1.15] Div F = 93.38 *Amperes*

USE:

MAIN CB : 100 AT,150 AF, 3P, 230V, 25 kaic

PANEL BOARD: UPPER GROUND FLOOR LP PANEL (UGFLPP)

3 - Phase 3 - Wire + Ground, 230 volts surface mounted

Circuit No.	PANEL DESCRIPTION	No. OF OUTLETS	VOLTS	VOLT-AMPS	AMPERE				Size of Conductor		Size Of Conduit	NEMA 1 ENCLOSURE Circuit Protection			
					3-Ø	AB	BC	CA	SQ. MM THHN	SQ. MM THW(G	In MM ø	AT	AF	POLE	TYPE
1	LIGHTING OUTLET	14	230	2,800.00		12.17			2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
2	LIGHTING OUTLET	8	230	4,000.00		17.39			2- 5.5 +	1- 2.0 THW	20	30	100	2	B - ON
3	LIGHTING OUTLET	22	230	2,200.00				9.57	2- 2.0 +	1- 2.0 THW	15	15	100	2	B - ON
4	LIGHTING OUTLET	9	230	4,500.00				19.57	2- 5.5 +	1- 2.0 THW	20	30	100	2	B - ON
5	LIGHTING OUTLET	27	230	2,700.00			11.74		2-2.0 +	1- 2.0 THW	15	20	100	2	B - ON
6	LIGHTING OUTLET	8	230	4,000.00			17.39		2- 5.5 +	1- 2.0 THW	20	30	100	2	B - ON
7	LIGHTING OUTLET	23	230	2,300.00		10.00			2- 2.0 +	1- 2.0 THW	15	15	100	2	B - ON
8	LIGHTING OUTLET	14	230	2,800.00		12.17			2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
9	LIGHTING OUTLET	22	230	2,200.00				9.57	2- 2.0 +	1- 2.0 THW	15	15	100	2	B - ON
10	LIGHTING OUTLET	22	230	2,200.00				9.57	2- 2.0 +	1- 2.0 THW	15	15	100	2	B - ON
11	CONV. OUTLET	15	230	2,700.00			11.74		2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
12	CONV. OUTLET	12	230	2,160.00			9.39		2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
13	CONV. OUTLET	14	230	2,520.00		10.96			2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
14	SPARE		230	2,500.00		10.87			PROVIDE STUB OUT		15	20	100	2	B - ON
15	SPARE		230	2,000.00				10.87	PROVIDE STUB OUT		15	20	100	2	B - ON
16	SPARE		230	2,000.00				10.87	PROVIDE STUB OUT		15	20	100	2	B - ON
17	CONV. OUTLET	12	230	2,160.00			19.17		2- 5.5 +	1- 2.0 THW	20	30	100	2	B - ON
18	CONV. OUTLET	11	230	1,980.00			8.61		2- 3.5 +	1- 2.0 THW	15	20	100	2	B - ON
	TOTAL		230	##########		74	78	70	3- 22.0 +	1- 14.0 THW(G	40	125	150	3	B - ON

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

I_{FL} = 32+ (0.25 x 0)] DF = 108.08 *Amperes*

USE:

FEEDER: 3 - 22 SQ. MM THHN (R/B/Y) + 1 - 14.0 SQ MM THW (G) in - 25 MM dia IMC or Equiv.

I_{cb} = + (2.5 x 0))/ 1.15] Div F = 117.47 *Amperes*

USE:

MAIN CB : 125 AT,150 AF, 3P, 230V, 25 kaic

CADD BY:	END USER:
E. N. RODEROS JR. PPU OVPPD	J. P. CUBILLO DEAN CSPEAR

ELECTL. ENGR.	ENDORSED BY:	REC. APPROVAL:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
EFREN ROCILLO PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR 4-28-22 VPPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 8

SCHEDULE OF LOADS

PANEL BOARD: MAIN DISTRIBUTION PANEL (MDP)

3 - Phase 3 - Wire + Ground, 230 volts surface mounted

Circuit No.	PANEL	PANEL DESCRIPTION	VOLTS	VOLT-AMPS	AMPERE				Size of Conductor			Size Of Conduit	NEMA 1 ENCLOSURE Circuit Protection			
					3-Ø	AB	BC	CA	MM² THHN		MM² THHN (	In MM ø	AT	AF	POLE	TYPE
1	LGFLPP	LOWER FLOOR LP PANEL	230	24200		62	48	53	3 - 14.0	+	1- 8.0 THW	20	100	150	3	B - ON
2	UGFLPP	UPPER FLOOR LP PANEL	230	47720		74	78	70	3 -22.0	+	1- 14 THW	25	125	150	3	B - ON
3	LGFAP	LOWER FLOOR ACU PANEL	230	54960	126	84	84	88	3 -100.0	+	1- 80 THW	50	350	400	3	B - ON
4	LGFAP	UPPER FLOOR ACU PANEL	230	335828	713	25	0	25	3 sets of 3-80	+	1- 60THW	50	800	1000	3	B - ON
5	FACP	FIRE ALARM CONTROL PANEL	230	500			2		2 - 2.0	+	1- 2.0 THW	15	20	100	2	B - ON
8		SPARE	230													
9		SPARE	230													
10		SPARE	230													
	TOTAL		230	463208	839	245	212	236	3sets of 3- 175	+	1- 150 THW	65; 1- 25(G)	1200	1200	3	B - ON

FEEDER and CURRENT PROTECTION COMPUTATION:

I_{FL} = [(839+ 245*1.732)+ (0.25 x 29.48)] DF = 1016.57 *Amperes*

USE:

FEEDER: 3 sets of 3-125 SQ. MM THHN (R/B/Y) + 1 - 100 SQ MM THW (G) in 3 - 65 MM dia IMC or Equiv ;1-25MM dia.IMC(G)

I_{cb} = [839 +245*1.732+ 1.5 x 29.48)] /1.15 DivF = 1137.01 *Amperes*

USE:

MAIN CB : 1200 AT,1200 AF, 3P, 230V, 65 kaic

TRANSFORMER SIZE

4621.74 ≈ 500

USE:

3 unit -167 KVA Pole Mounted Distribution Transformer, 13.8kv/ 240/ 120v.

GENERATOR SIZE

USE:

1 unit -625 kVA , 240V/120V, 3 PHASE, 60 HZ, STAND BY GENERATOR, WATER COOLED DIESEL ENGINE

PANEL BOARD: FIRE PUMP PANEL (MDP)

3 - Phase 3 - Wire + Ground, 230 volts surface mounted

Circuit No.	PANEL	PANEL DESCRIPTION	VOLTS	VOLT-AMPS	AMPERE				Size of Conductor			Size Of Conduit	NEMA 1 ENCLOSURE Circuit Protection			
					3-Ø	AB	BC	CA	MM2 THHN		MM2 THHN (	In MM ø	AT	AF	POLE	TYPE
1	FPUMP25	FIRE PUMP (25HP)	230	15640	68				3 - 250.0	+	1- 200.0 THW	80	400	400	3	B - ON
	TOTAL		230	15640	68				3- 250.0	+	1- 200 THW	80	400	400	3	B - ON

CADD BY:	END USER:						
E. N. RODEROS JR. PPU OVPPD	J. P. CUBILLO DEAN CSPEAR						
ELECTL. ENGR.	ENDORSED BY:	REC. APPROVAL:	REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
EFREN ROCILLO PPU OVPPD	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	M. M. ESCOBAR VPPPD CVSU	C. A. POLINCA VPASS CVSU	H. D. ROBLES PRES CVSU	PROPOSED ELECTRICAL REWIRING HUMAN KINETICS BLDG. (GYMNASIUM) CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 9