GENERAL NOTES AND SPECIFICATIONS:

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

A. LIGHT SWITCHES B. CONVENIENCE O C. COUNTER TOP O D. TELEPHONE OUT E. PANEL BOARD F. EMERGENCY LIGH	UTLETS 0.30M ABOVE FLOOR FINISH C.O, 0.40M TO .50M ABOVE THE COUNTER TLETS 0.30M ABOVE FLOOR FINISH 1.50M ABOVE FLOOR FINISH
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- 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.

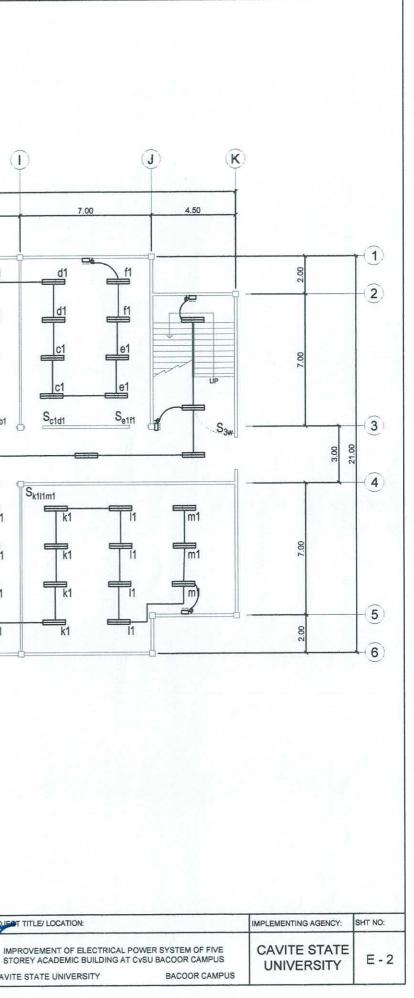


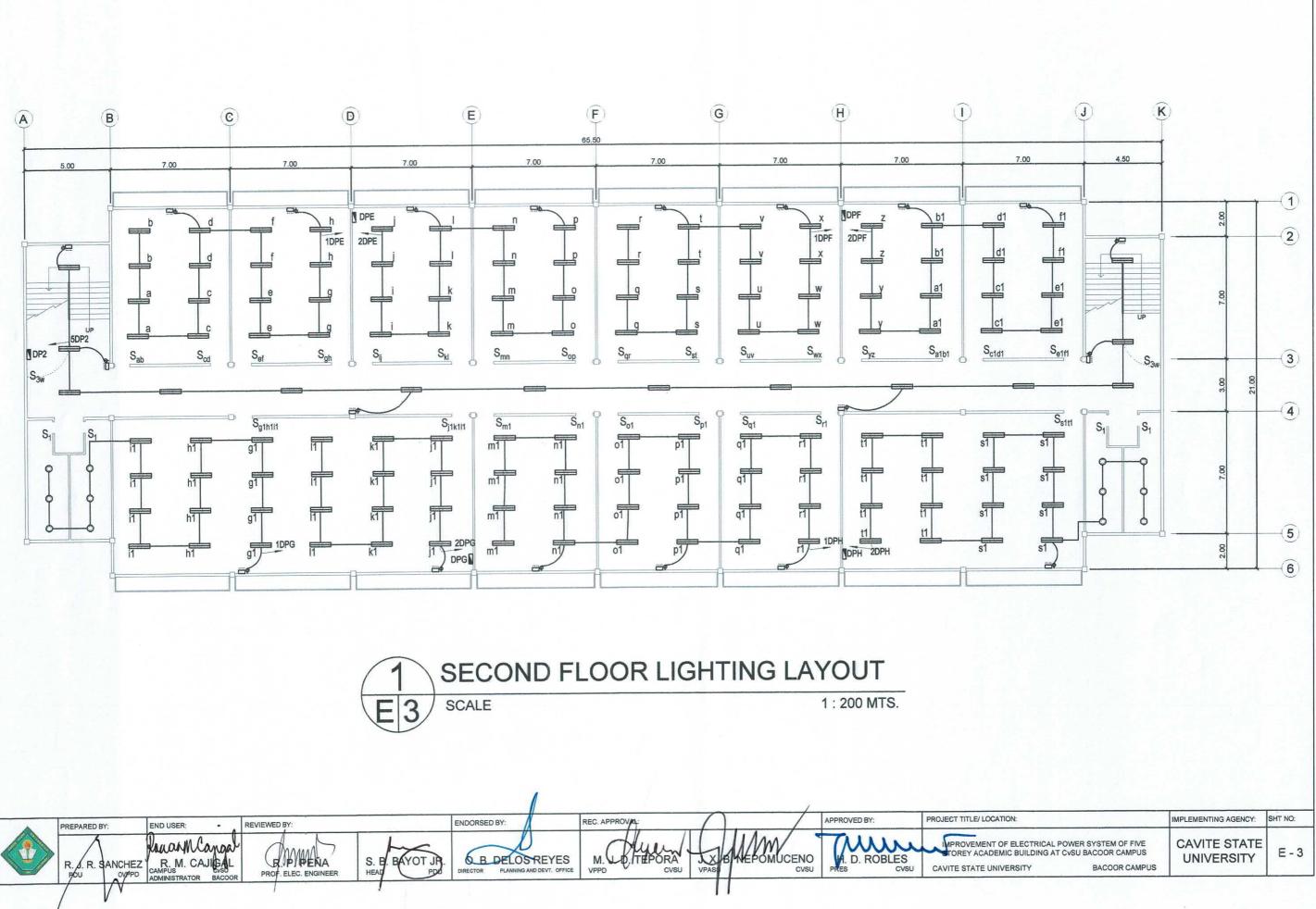
LEGE	ND AND SYMBOLS :		
0	LED DOWNLIGHT, VERTICAL RECESSED, ROUND 12W w/ 6" CASING FIXTURE	83	CIRCUIT BREAKER WITH NEMA 3R METAL ENCLOSUR
	1-9W LED TUBE LIGHT WITH DIFFUSER, 2 FT. LENGTH (FL)	AC COMPENSION	ACU CONDENSER OUT DOOR UNIT WITH NEMA 3R CIRCUIT BREAKER
=	2-9W LED TUBE LIGHT WITH DIFFUSER, 2 FT. LENGTH (FL)	511813	ACU WALL/FLOOR MOUNTED, SPLIT TYPE, INDOOR UNIT
	1-18W LED TUBE LIGHT WITH DIFFUSER, 4 FT. LENGTH (FL)		2.0 mm ² THHN
	2-18W LED TUBE LIGHT WITH DIFFUSER, 4 FT. LENGTH (FL)		3.5 mm² THHN
	EMERGENCY LIGHT (EL)	1	CIRCUIT HOMERUN
S _{1'} S _A	ONE GANG SWITCH	1LPP1	CIRCUIT NUMBER
S ₂ ,S _{AB}	TWO GANG SWITCH		PANEL BOARD
S ₃	THREE GANG SWITCH		SERVICE ENTRANCE
S _{3W,} S _{a3W}	THREE WAY SWITCH	M	KILOWATT HOUR METER
Ы	TWO GANG CONVENIENCE OUTLET	B	CONCRETE ENCASEMENT
Hwp.	WEATHER-PROOF TWO GANG CONVENIENCE OUTLET	-	CABLE CHAMBER
Ø	TWO GANG CONVENIENCE OUTLET (FLOOR MOUNTED)		DISTRIBUTION TRANSFORMER
b , D , spo	TWO GANG SPECIAL POWER QUILET TWO GANG SPECIAL POWER QUILET (FLOOR MOUNTED)	•	PRIMARY CONCRETE POLE
٨	THREE PIN ACU OUTLET		SERVICE ENTRANCE PEDESTAL WITH DISCONNECTING SWITCH
AC.	ACU WINDOW TYPE	-13	SECONDARY LINE

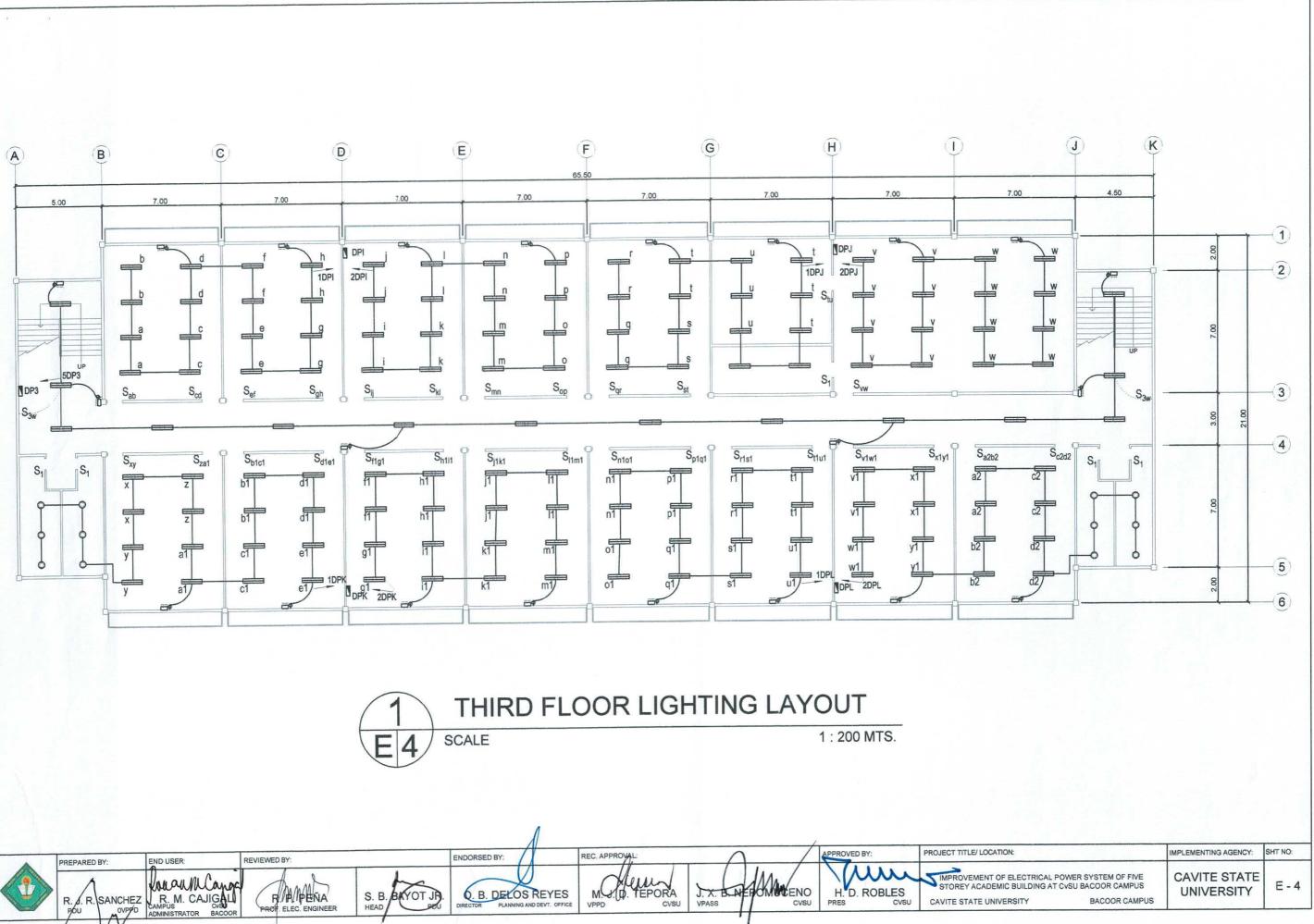
		IMPLEMENTING AGENCY:	SHT NO:
	OWER SYSTEM OF FIVE	CAVITE STATE UNIVERSITY	E - 1
and a	BACOOR CAMPUS		

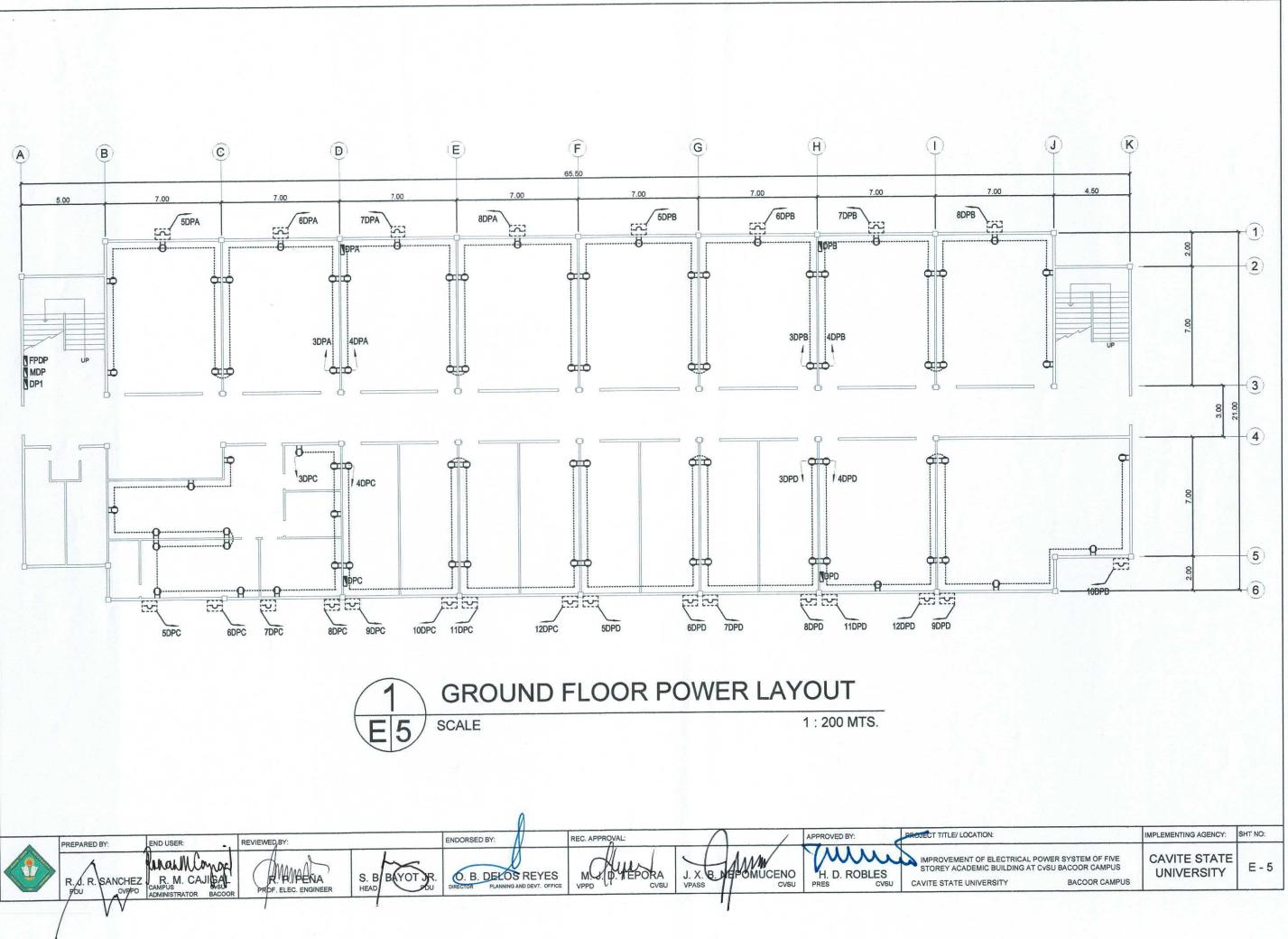
H (\mathbf{I}) G E) F D C $(\widehat{\mathbf{A}})$ (B 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 5.00 DPB b1 d1 DPA d 2DPB Enter 1DPA 2DPA _____d1 L× b1 F a1 _____C1 W L° e a E a1 c1 0 U W FPDP MDP_ DP1 9 5DP1 C E -Frank F E Sop S_{c1d1} Swx S_{yz} S_{st} Suv S_{a1b1} Sqr S_{cd} S_{ij} S_{kl} S_{mn} Sgh Sab Sef Ö Ö ÷ Ö Ö ĨL. US_{3w} S₁ Q Sk111m1 O S_{i1j1} S₁ S₁ S1 S1 S1 S1 S₁ S_{g1h1} S1 S1 S --k1 g1 11 _____ g1 0 · 11 S j1 S S1 1DPD2DPD 1DPC 2DPC 0 S1 _ h1 k1 DPC CA GROUND FLOOR LIGHTING LAYOUT 1:200 MTS. E 2 SCALE ROJECT TITLE/ LOCATION VED BY REC. APPRONAL: Titu ENDORSED BY: REVIEWED BY END USER: REPARED BY: J. X. B. NET ON ENO VPASS M. J.D. TEPORA VPPD CVSU R. M. CAJIGA CAMPUS ADMINISTRATOR BACCOR R P. PENA H. D. ROBLES S. B. BAYOT R. 10 O.B. DELOS REYES R. J. R. SANCHEZ CAVITE STATE UNIVERSITY PROF. ELEC. ENGINEER

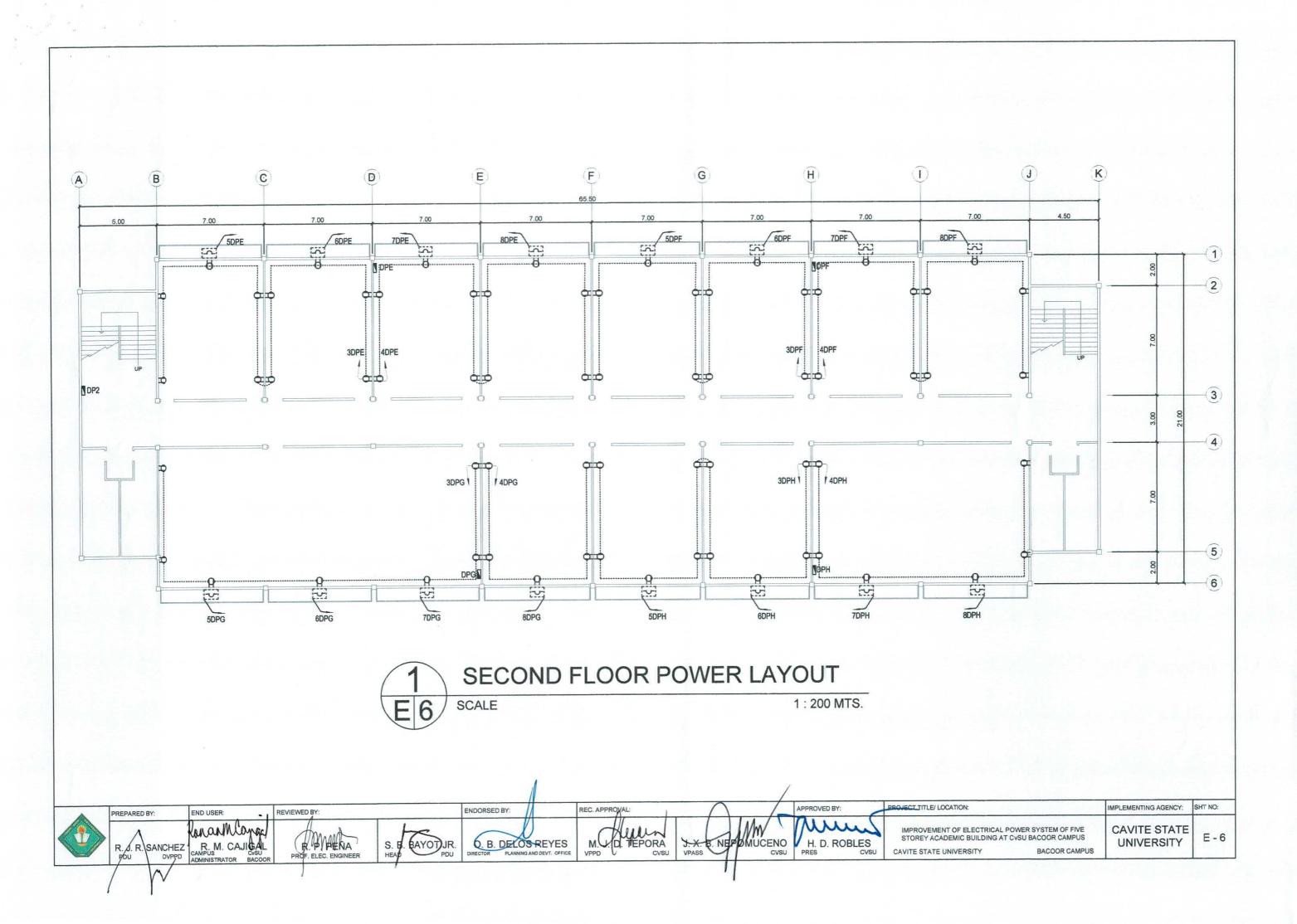
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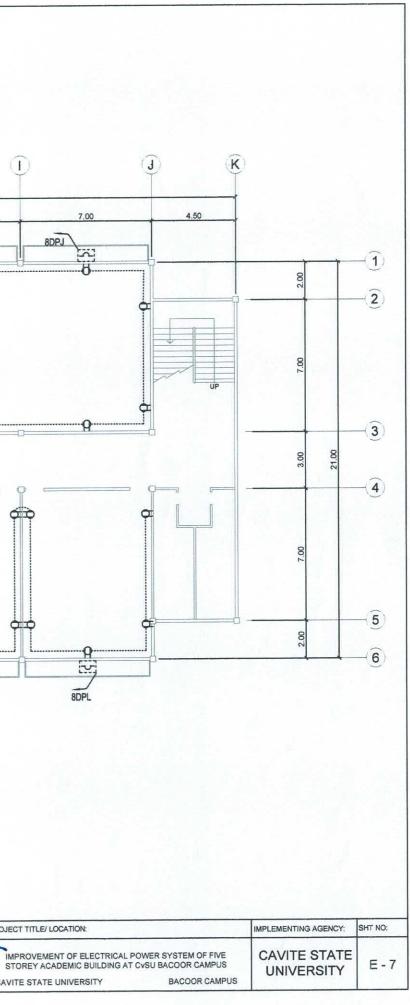








 (\mathbf{I}) G H E F D C B A 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 5DPI 8DPJ 5DPJ 6DPJ 7DPJ 8DPI 6DPI 7DPI E 5 5 2 5 5 5 3DPJ 4DPJ NOR ÔT 3DPI 4DPI DP3 ÓD 3DPL 4DPL 3DPK 1 4DPK DPL H V H [V] H EVE 5 H W 5 EST. 5 5DPL 7DPL 8DPL 7DPK 6DPL 8DPK 5DPK 6DPK THIRD FLOOR POWER LAYOUT 1:200 MTS. E SCALE PROJECT TITLE/ LOCATION: APPROVED BY: REC. APPROVAL ENDORSED BY: REVIEWED BY END USER PREPARED BY: H. D. ROBLES J. X. D. NEPOMUCENO VPASS R. C. R SANCHEZ R. M. CAJIGAN M. J. DI TEPORA R. P. PENA PROF. ELEC. ENGINEER S. B. BAYOT R. DIRECTOR PLANNING AND DEVT. OFFICE CAVITE STATE UNIVERSITY



SCHEDULE OF LOADS AND COMPUTATIONS :

REVIEWED BY:

R/AMAAAA

PROF. ELEC. ENGINEER

END USER

R. M. CAJIGAL

ADMINISTRATOR BACOOR

PREPARED BY:

R. J.R. SANCHEZ

OVPPP

NOTE: G - Mee 1R- Coli 1B- Coli 1Y- Coli 1G- Col 1G- Col nie Electrical Di traditional el capt redealgn c	CROUIT DESCRIPTION LIGHTING OUTLET LIGHTING OUTLET CONVENIENCE OUTLET ACU POWER OUTLET ACU POWER OUTLET ACU POWER OUTLET SPARE TOTAL FEEDER and CURRENT PROTECTION COM eans Ground Wire olor RED olor RED olor RED olor SELOW totor GREEN Design is good only for the above con al actrical load agatum will be don (DISTRIBUTION PANEL B) CROUIT DESCRIPTION	LOCATION:	GROUND FI WATTAGE 1800 2000 2000 3000 3000 3000 3000 3000 19600 19600		LOAD N 3 # 0)+(125% x)+(25% x THHN+1-1	(m)] x DF : 14.0 SQM M	CA 8.70 8.70 23 40	137.17	CRCUIT PROTECTION CRCUIT BREAKER RATING 15AT, 2P, 230V, MCCB 15AT, 2P, 230V, MCCB 20AT, 2P, 230V, MCCB 20AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB 150 AT, 3P, 230V, MCCB	ENCL OSURE : MOUNTING: Size of Conductor SQ. MM TH-IN THM(G) 2-2.0 2-3.5 2-3.5 2-3.5 2-3.6 G2.0 2-3.5 2-3.6 3.5 G2.0 2-3.6 3.5 G2.0 2-8.0 G5.5 2-8.0 G5.5	SURFACE SURFACE Size Of Conduit in MMC 20 MMC 20 MM	Color Code 1R.18,G 1R.18,G 1Y,1RG 1Y,1RG 18,1Y,G 18,1Y,G 1R.18,G 1Y,1RG 1Y,1RG 1Y,1RG	NOTE G 11 11 11 11 11 11 11 11 11 11 11 11 1	LIGH LIGH CONVI ACUI ACUI ACUI ACUI ACUI ACUI ACUI ACU
TS: 230 TND. TND. TND. TND. TND. TND. TND. TND.	LIGHTING OUTLET LIGHTING OUTLET CONVENENCE OUTLET ACU POWER OUTLET ACU POWER OUTLET ACU POWER OUTLET ACU POWER OUTLET SPARE ACU POWER OUTLET SPARE ACU POWER OUTLET SPARE TOTAL FEEDER and CURRENT PROTECTION COMP teams Ground Wire olor RED olor RED olor SELOW totor GREEN Design is good only for the above com al actrical load cannection in the futur of electrical load system will be down (DISTRIBUTION PANEL B)	NO OF OUTLET 18 18 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1	WATTAGE 1800 1800 2000 2000 3000 3000 3000 3000 19600 19600 Use: 3-5 Use: 150	VOLTAGE 230 230 230 230 230 230 230 230	3 s 0) + (125% ×) + (250% × THHN+1 - 1	AMPE AB 7.83 7.83 23 23 39 (im)] x DF = (im)] x DF = (im)] x DF =	CA 8.70 8.70 23 40	23 23 46 108.42 137.17	CRCUIT BREAKER RATING 15AT, 29, 230V, MCCB 15AT, 29, 230V, MCCB 20AT, 29, 230V, MCCB 20AT, 29, 230V, MCCB 20AT, 29, 230V, MCCB 50AT, 29, 230V, MCCB 50AT, 29, 230V, MCCB 50AT, 29, 230V, MCCB 50AT, 29, 230V, MCCB 150 AT, 39, 230V, MCCB	SQ. MM SQ. MM SQ. MM TH+N ThM(G) 2-20 2-35 2-35 G2.0 2-35 G2.0 2-36 G5.5 2-8.0 G5.5 2-8.0 G5.5 2-8.0 G5.5 2-8.0 G5.5	Conduit In NMI # IMC, 20 IMC, 20 IM	1R 18,G 1R 18,G 1Y,1RG 18,1Y,G 18,1Y,G 18,1Y,G 18,1Y,G 18,1Y,G 18,1Y,G 17,1RG	3 4 5 6 7 7 8 9 9 10 11 11 12 12 12 12 11 11 12 12 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	US CONVI ACUI ACUI ACUI ACUI ACUI ACUI ACUI ACU
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2 2 3 4 4 5 5 6 7 7 6 8 7 7 8 8 07 7 8 0 7 7 8 8 07 8 0 7 1 8 0 7 1 8 0 1 1 8 0 1 1 9 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1	LGHTNG OULET CONVENENCE OULET ACU POWER OULET ACU POWER OULET ACU POWER OULET ACU POWER OULET SPARE ACU POWER OULET SPARE TOTAL FEEDER and CURRENT PROTECTION COME eans Ground Wire olor RED olor RED olor FED olor FED olor FED olor FED olor FED olor FED olor FED Consult of a system will be down al dectrical load connection in the future of al dectrical load system will be down olor FRED CIRCUIT DESCRIPTION	18 18 10 1	1800 1800 2000 3000 3000 3000 3000 19600 19600 19600 19600 19600 CABLE CONDUT:	230 230 230 230 230 230 230 230 230 230	0) + (125% x) + (250% x THHN+ 1 - 1	7.83 7.83 23 23 39 39 (Im)] x DF = (Im)] x DF =	8.70 8.70 23 40	23 23 46 108.42 137.17	15AT, 2P, 230V, MCCB 15AT, 2P, 230V, MCCB 20AT, 2P, 230V, MCCB 20AT, 2P, 230V, MCCB 20AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB 150 AT, 3P, 230V, MCCB	2 - 20 2 - 20 2 - 3.5 + G2.0 2 - 3.5 + G2.0 2 - 8.0 + G5.5 2 - 8.0 + G5.5 2 - 8.0 + G5.5 2 - 8.0 + G5.5 2 - 8.0 + G5.5	IMC, 20 IMC, 20 IMC, 20 IMC, 20 IMC, 20 IMC, 20 IMC, 20 IMC, 20 IMC, 20	1R1B,G 1Y,1RG 1Y,1RG 18,1Y,G 18,1Y,G 18,1Y,G 1R,1B,G 1Y,1RG	7 8 9 10 11 11 12 M NOTE G 11 11 12 This Electri Any additio	ACU ACU ACU ACU ACU ACU ACU ACU ACU ACU
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6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ACU POWER OUTLET ACU POWER OUTLET SPARE ACU POWER OUTLET SPARE TOTAL TOTAL FEEDER and CURRENT PROTECTION COME eans Ground Wire clor RED olor BLLOK olor YELLOW ktor GREEN Design Is good only for the above con al actrical load connection in the fut to of electrical load system will be down (DISTRIBUTION PANEL B)	I I I I I I I I I I I I I I I I I I I	3000 3000 3000 19600 19600 19600 19600 19600 19600 CABLE CONDUT:	230 230 230 230 230 230 (46 x 1.732) (46 x 1.732) (46 x 1.732) (46 x 1.732) (40 x 1.732) (40 x 1.732)) + (125% x) + (250% x THHN+ 1 - 1	39 (im)] x DF = (im)] x DF =	40	23 46 108.42 137.17	SOAT, 22, 230V, MCCB E0AT, 27, 230V, MCCB SOAT, 27, 230V, MCCB 150 AT, 39, 230V, MCCB 150 AT, 39, 230V, MCCB Amperes Amperes	2-8.0 + G5.5 2-8.0 + G5.5 2-8.0 + G5.5	IMC, 20 IMC, 20 IMC, 20	18,1Y,G 1R,1B,G 1Y,1R,G	12 M NOTE G 1/ 11 11 11 11 11 11 11 11 11 11 11 11	ACU ALN FEEDER and C 3 - Means Ground R- Color RED B- Color BLACK Y- Color BLACK G- Color GREEN ical Design is goo onal electrical is adgn of electrica
MAIN FE OTE: G - Mea 1R- Col 1B- Col 1C- Col 1C- Col additional el spt: radolignen vEL : DPB (C ASE 3 LTS: 230 1 CT N0. 1 2 3 4	ACU FOWER CUTLET SPARE ACU ROWER CUTLET SPARE TOTAL TOTAL FEEDER and CURRENT PROTECTION COME ears Ground Wire olor RED olor BLACK olor VELLOW folor GREEN Design is good only for the above con electrical load connection in the future of electrical load system will be domine a delectrical load system will be domine (DISTRIBUTION PANEL B)	i i I AUTATOR Inc. Ica- mecfed (oads. ure (s not allowed, e. LOCATION:	3000 3000 19600 19600 19600 19600 19600 19600 19600 19600 19600 19600 19600 19600	230 230 230 230 230 (46 x 1.732) (46 x 1.732) (46 x 1.732) 50.0 SQM M A.T, 200AF, -) + (125% x) + (250% x THHN+ 1 - 1	39 (im)] x DF = (im)] x DF =	40	48 108.42 137.17	50AT, 2P, 230V, MCC8 150 AT, 3P, 230V, MCC8 Amperes Amperes	2-8.0 + G5.5	MC, 20	1Y,1RG	NOTE G 11 11 11 11 11 11 11 11 11 11 11 11 1	S - Meens Ground R- Color RED B- Calor BLACK Y- Color GLACK G- Color GREEN ical Deeign is goo onal electrical lo saign of electrica
MAIN FE OTE: G - Meen IR: Col IR: C	SPARE ACUPOWER CUTLET SPARE TOTAL TOTAL FEEDER and CURRENT PROTECTION COME earns Ground Wire olor RED olor BLACK olor RED olor BLACK olor GREEN Design Is good only for the above con electrical load connection in the futu of electrical load system will be don (DISTRIBUTION PANEL B) CIRCUIT DESCRIPTION	AUTATION:	19600	230 230 230 (46 x 1.732) (46 x 1.732) (46 x 1.732) 30.0 SQM M A T, 200AF, -) + (125% x) + (250% x THHN+ 1 - 1	(m)] x DF = (m)] x DF = 14.0 SQM M	40	108.42 137.17	150 AT, 3P, 230V, MOOB Amperes Amperes				NOTE G 11 11 11 11 11 11 11 11 11 11 11 11 1	S - Meens Ground R- Color RED B- Color BLACK Y- Color YELLOW G- Color GREEN ical Deeign is go onal electrical ic saign of electrica
MAIN FE OTE G - Mea IR- Coli IB- Coli IB- Coli IG- Col additional 0 additional 0 additional 0 ISE 3 TNO. 1 2 3 4	SPARE TOTAL TOTAL FEEDER and CURRENT PROTECTION COME of PRED of PRED O	AUTATION:	19600	230 230 ((46 x 1.732)) ((46 x 1.732)) (46 x 1.732) (0.0 SQM M A.T, 200AF, 5) + (125% x) + (250% x THHN+ 1 - 1	(m)] x DF = (m)] x DF = 14.0 SQM M	40	108.42 137.17	150 AT, 3P, 230V, MOOB Amperes Amperes				NOTE G 11 11 11 11 11 11 11 11 11 11 11 11 1	S - Meens Ground R- Color RED B- Color BLACK Y- Color YELLOW G- Color GREEN ical Deeign is go onal electrical ic saign of electrica
G - Mee G - Mee IR: Col IB: Col IB: Col IC: Col IG:	TOTAL FEEDER and CURRENT PROTECTION COMP teans Ground Wire clor RED olor BLLCK olor YELLOK clor GREEN Design is good only for the above con al actrical load connection in the futur to delectrical load system will be down (DISTRIBUTION PANEL B) CIRCUIT DESCRPTION	In. Ica- mected loads. ure is not allowed, e.	I use: 3 - 5 use: 150 CABLE CONDUTT:	230 ((46 x 1.732)) (46 x 1.732) (46 x 1.732) (47 x 1.732)) + (125% x) + (250% x THHN+ 1 - 1	(m)] x DF = (m)] x DF = 14.0 SQM M		108.42 137.17	Amperes Amperes	3-50.0 + G14.0	IMC, 40	1R,18,1Y,G	NOTE G 11 11 11 11 11 11 11 11 11 11 11 11 1	6 - Means Ground R- Color RED B- Color BLACK Y- Color YELLOW G- Color GREEN ical Deeign is go onal electrical i saign of electrica
G - Mee G - Mee IR: Col IB: Col IB: Col IC: Col IG:	FEEDER and CURRENT PROTECTION COMP eans Ground Wire clor RED olor BLACK olor GREEN Coding FIE good only for the above con alactrical load connection in the futu of electrical load system will be done (DISTRIBUTION PANEL B) CRICUIT DESCRIPTION	In. Ica- mected loads. ure is not allowed, e.	I use: 3 - 5 use: 150 CABLE CONDUTT:	((46 x 1.732)) ((46 x 1.732)) 50.0 SQM M A.T, 200AF, S) + (125% x) + (250% x THHN+ 1 - 1	(m)] x DF = (m)] x DF = 14.0 SQM M		108.42 137.17	Amperes Amperes	3-500 + 3140	100,40	14,16,11,0	G 1i 1i 1i 1i 1i 1i 1i 1i 1i 1i 1i 1i 1i	R- Color RED B- Color BLACK Y- Color YELLOW G- Color GREEN icel Design is go onal electrical ic ssign of electrica
G - Mee G - Mee IR: Col IB: Col IB: Col IC: Col IG:	eens Ground Wire olor RED olor BLACK olor VELLOW korr GREEN Design 1s good only for the above con electrical load connection in the futur of electrical load system will be dom (DISTRIBUTION PANEL 8) ORCUIT DESCRIPTION	In. Ica- mected loads. ure is not allowed, e.	CABLE CONDUIT:	(46 x 1.732)) 50.0 SQM M A.T, 200AF, () + (250% × THHN+1 - 1	(m)] x DF : 14.0 SQM M	-	137.17	Ampares				1/ 18 11 10 10 This Electri Any additio	R- Color RED B- Color BLACK Y- Color YELLOW G- Color GREEN icel Design is go onal electrical ic ssign of electrica
a Electrical De additional al apt redealgn o wEL : DPB (C ASE: 3 LTS: 230 T NO.	Design is good only for the above con electrical load connection in the futu- n of electrical load system will be done (DISTRIBUTION PANEL 8) CRCUIT DESCRIPTION	LOCATION:	CABLE CONDUIT:	2 3 - 50.0 50									Exceptrede	
SE 3 TS: 230 TNO. 1 2 3 4	CIRCUIT DESCRIPTION		CONDUIT:	2 3 - 50.0 50				-					PANEL : S D PHASE 3 VOLTS: 23	
ASE 3 LTS: 230 TT NO. 1 2 3 4	CIRCUIT DESCRIPTION		CONDUIT:		QMM THHN	+ 1 - 14.0 SC	MM THW			MAIN: 150 AT, 200 A		CB	10210: 23	
LTS: 230 TT NO. 1 2 3 4				: IMC, 40 M						ENCLOSURE : MOUNTING:	NEMA 1 SURFACE		CKT ND.	CIRC
T NO.			GROUND	EL OOR						IN CONTINUE.	OUNTROL			
1 2 3 4			GROUND	FLOOR	LOAD	N RATING			CIRCUIT PROTECTION	Size of Conductor	Size Of		1	L
1 2 3 4		NO OF		1		AMP	ERES				Conduit in	Color Code	2	U
2 3 4		OUTLET	WATTAGE	E VOLTAGE	3.0	AB	CA	BC		SQ. MM SQ. MM THHN THW(G)	MM #		3	CON
2 3 4			1000	230		7.83			CIRCUIT BREAKER RATING 15AT, 2P, 230V, MCCB	2-2.0	MC, 20	1R,1B,G	4	ACL
3 4	LIGHTING OUTLET	18	1800	230	1	7.83			15AT, 2P, 230V, MCCB	2-20	IMC, 20	1R,1B,G	6	AC
4	CONVENENCEOUTLET	10	2000	230			8.70		20AT, 2P, 230V, MCCB	2-35 + G20	MC, 20	1Y,1RG 1Y,1RG	7	ACI
6	CONVENIENCE OUTLET	10	2000	230	1		8.70	23	20AT, 2P, 230V, MCC8 50AT, 2P, 230V, MCC8	2-35 + G20 2-80 + G55	IMC, 20 IMC, 20	18,1Y,G	8	ACI
and the second second	ACU POWER OUTLET	1	3000	230			-	23	50AT, 2P, 230V, MCC8 50AT, 2P, 230V, MCC8	2-8.0 + G5.5	MC, 20	1B,1Y,G	10	AC
6	ACU POWER OUTLET ACU POWER OUTLET	1	3000	230		23			50AT, 2P, 230V, MOCB	2-8.0 + G5.5	IMC, 20	1R,1B,G	11	AC
	SPARE			230					1017 00 0000 10000	2-80 + G55	MC, 20	1Y,1RG	12	AC
8	ACU POWER OUTLET	1	3000	230	-	-	23		50AT, 2P, 230V, MOCB	2-8.0 + G6.5	MA ZU	11,11(0		
	SPARE		-	230								10 10 10 0		
	TOTAL		19600	230	0	39	40	46	150 AT, 3P, 230V, MCC8	3-50.0 + G14.0	IMC, 40	1R,1B,1Y,G	M	WAIN FEEDER and
IOTE G - Me 1R- Co 1B- Co 1Y- Co 1G- Co	I FEEDER and CURRENT PROTECTION COM Means Ground Wire Color RED Color BLACK Color GREEN Color GREEN	/# /cs	• use: 3-)) + (250% THHN+ 1 -	x im)] x DF x im)] x DF 14.0 SQM M W CCB	=	137.17					1 1 1 This Electri Any additio	G - Means Ground IR-Color RED IB-Color BLACK YY-Color YELLOW IG-Color GREEN rical Design is go conal electrical li esign of electrica
s Electrical (I Design is good only for the above co	nnected loads.											Except rede	angn of electric
y additional	al electrical load connection in the fun on of electrical load system will be do	cure is not allowed ne.	2,										PANEL : SI	DP1 (DISTRIBUT
apri recen git		4.462												
													PHASE S	
													VOL15: 2	vv
													CKT ND.	CIRCUIT
													1	DISTRIBU
													2	DISTRIBU
													4	DISTRIBU
													5	LIGHT
														S
														MAIN FEEDER an
													NOTE	
														G - Means Grou 1R- Color RED 1B- Color BLAC 1Y- Color YELLO
													This Electr Any additi	1G- Color GRE trical Design is tional electrica design of electr

CABLE: 3 - 50.0 SQM M THHN+ 1 - 14.0 SQMM THW PANEL : DPC (DISTRIBUTION PANEL C) CONDUIT: IMC. 40 MM DIA. PHASE: 3 LOCATION: GROUND FLOOR LOAD IN RATING NO OF AMPERES CRIPTION OUTLET WATTAGE VOLTAGE 3 ø AB CA BC OUTLET OUTLET E OUTLET E OUTLET ROUTLET ROUTLET ROUTLET 2000 230 1600 230 8 70 8.96 12 17 14 2800 230
 2000
 200

 1600
 230

 1200
 230

 1200
 230

 1200
 230
 8 6.96 OUTLET 1200 230 OUT 1200 230 ROUTLET ROUTLET ROUTLET 1200 230 1200 230 1200 230 43 17600 230 40 PROTECTION COMPUTATION: $\frac{[(48 \times 1.732)) + (125\% \times Im)] \times DF}{[(48 \times 1.732)) + (250\% \times Im)] \times DF} =$ 98.14 Amperes 113.14 Amperes 1_{R=} 1_{C8=} US8: 3 - 50.0 SQM M THHN+ 1 - 14.0 SQM M THW IN 40 M M DIA. IM C USO: 150 AT. 200AF. 3P. 230V,MCCB y for the above connected loads. nnection in the future is not allowed, system will be done. CABLE 3 - 50.0 SQMM THHN+ 1 - 14.0 SQMM THW 1.0) CONDUIT: IMC, 40 MM DIA. LOCATION: GROUND FLOOR LOAD IN RATING NO OF AMPERES CRIPTION OUTLET WATTAGE VOLTAGE 3ø AB CA BC 1600 230 6.96 9.13 OUTLET CE OUTLET R OUTLET 2100 230 1600 230 6.96 2000 230 8.70 1200 230 1200 230 1200 230 1200 230 12 12 1200 230 1200 230 1200 230 1200 230 16900 230 48 40 50 T PROTECTION COMPUTATION: [(50 x 1.732)) + (125% x im)] x DF = [(50 x 1.732)) + (250% x im)] x DF = 107.65 Amperas 129.10 Amperas 100. ume: 3 - 50.0 SQM M THHN+1 - 14.0 SQM M THW IN 40 M M DIA. IM C ume: 150 AT, 200AF, 3P, 230V, M CCB v for the above connected loads. nection in the future is not allowed, system will be done. CABLE: 3 - 175.0 SQMM THIN+ 1 - 80.0 SQMM THW CONDUIT: IMC, 1-80 MM DIA. NEL 1) LOCATION: HALLWAY, GROUND FLOOR LOAD IN RATING PANEL/CIRC AMPERE TION

UIT NUMBER Volt- Amp VOLT 3 5 AB CA BC CIR 46 11 46 11 48 11 39 40 19600 230 0 IR A DPA ELB ALC 48 1 76000 230 0 167 174 188 30 ENT PROTECTION COMPUTATION: 260.49 Amp 260.49 Amp [(188 x 1.732))] x DF = [(188 x 1.732))] x DF = 1_R. 1_{ca}. use: 3 - 175.0 SQMM THHN+ 1 - 30.0 SQMM THW IN 1 - 80 MM DIA. IM C use: 300 AT, 400AF, 3P, 230V,M CCB nly for the above connected loads. connection in the future is not allowed, ed system will be done. PROJECT TITLE/ LOCATION: APPROVED BY:

CVSU

PRES

J. X. B. NEPOMUCENO

Tur

H. D. ROBLES

CVSU

REC. APPROVAL

VPPD

M. J. D. TEPORA

CVSU

VPASS

ENDORSED BY:

S. B BAYOT R.

PDU

HEAD

O B DELOS REYES

DIRECTOR PLANNING AND DEVT. OFFICE

	MAIN:	EN	LOSURE : UNTING:	3P, 230V, MCC NEMA 1 SURFACE	8
CIRCUIT PROTECTION	Size of 0	Con	ductor	Size Of	
CIRCUIT BREAKER RATING	SQ. MM THHN	-	SQ. MM THW(G)	Conduit In MM #	Color Code
15AT, 2P, 230V, MCCB	2-2.0	_		MC, 20	1R,1B,G
15AT, 2P, 230V, MCCB	2-2.0	-		IMC, 20	1R,1B,G
20AT, 2P, 230V, MCCB	2-3.5	+	G2.0	IMC, 20	1Y,1RG
20AT, 2P, 230V, MCCB	2-3.5	+	G2.0	MC, 20	1Y,1R,G
30AT, 2P, 230V, MCC8	2-5.5	+	G 3.5	IMC, 20	18,1Y,G
30AT, 2P, 230V, MCCB	2-5.5	+	G 3.5	IMC, 20	1B,1Y,G
30AT, 2P, 230V, MCCB	2-5.5	+	G 3.5	MC, 20	1R,1B,G
30AT, 2P, 230V, MCCB	2-5.5	+	G 3.5	IMC, 20	1R,1B,G
30AT, 2P, 230V, MCCB	2-5.5	+	G3.5	MC, 20	1Y,1R,G
30AT, 2P, 230V, MCCB	2-5.5	+	G3.5	MC, 20	1Y,1R,G
30AT, 2P, 230V, MCCB	2-5.5	+	G3.5	MC, 20	1B,1Y,G
30AT, 2P, 230V, MCCB	2-5.5	+	G3.5	MC, 20	18,1Y,G
150 AT. 3P. 230V. MCCB	3-50.0	+	G 14.0	MC, 40	1R, 1B, 1Y, G

and the second se					
		EN	AT, 200 AF, CLOSURE : JUNTING:	3P, 230V,MCC NEMA 1 SURFACE	;B
CIRCUIT PROTECTION	Size of 0	Con	ciuctor	Size Of	
			1	Conduit in	Color Code
CIRCUIT BREAKER RATING	SQ. MM THHN		SQ. MM THW(G)	MMø	
15AT, 2P, 230V, MCCB	2-2.0	-		IMC, 20	1R,1B,G
15AT, 2P, 230V, MCC8	2-2.0	-	6	IMC, 20	1R,1B,G
20AT, 2P, 230V, MCC8	2-3.5	+	G2.0	IMC, 20	1Y,1R,G
20AT, 2P, 230V, MCCB	2-3.5	+	G2.0	IMC, 20	1Y,1R,G
30AT, 2P, 230V, MCCB	2-5.5	+	G 3.5	IMC, 20	1B, 1Y, G
30AT, 2P, 230V, MCCB	2-5.5	+	G 3.5	IMC, 20	1B,1Y,G
30AT, 2P, 230V, MCCB	2-5.5	+	G3.5	IMC, 20	1R,1B,G
30AT, 2P, 230V, MCC8	2-5.5	+	G3.5	IMC, 20	1R,1B,G
40AT, 2P, 230V, MCCB	2-5.5	+	G3.5	IMC, 20	1Y,1R,G
40AT, 2P, 230V, MCCB	2-5.5	+	G3.5	IMC, 20	1Y,1R,G
30AT, 2P, 230V, MCCB	2-5.5	+	G 3.5	IMC, 20	1B, 1Y, G
30AT, 2P, 230V, MCCB	2 - 5.5	+	G 3.5	IMC, 20	1B,1Y,G
150 AT, 3P, 230V, MCCB	3 - 50.0	+	G 14.0	IMC, 40	1R,18,1Y,G

STOREY ACADEMIC BUILDING AT CVSU BACOOR CAMPUS

CAVITE STATE UNIVERSITY

80.0 SC	omm thw				ENK	AT, 400AF, LOSURE : UNTING:	3P, 230V,MCC NEMA 1 SURFACE	В	
NG			CIRCUIT PROTECTION	Size of	Con	ductor	Size Of		
AMPERES			CARLES AND				Condult in	Color Code	1
AB	CA	BC	CIRCUIT BREAKER RATING	SQ. MM THIN	SQ. MM THW(G)		MMø		
39	40	46	150 AT, 3P, 230V, MCCB	3 - 50.0	+	G14.0	IMC, 40	1R,1B,1Y,G	
39	40	46	150 AT, 3P, 230V, MCCB	3 - 50.0	+	G 14.0	IMC, 40	1R,1B,1Y,G	
40	43	48	150 AT, 3P, 230V, MCCB	3 - 50.0	+	G 14.0	IMC, 40	1R,1B,1Y,G	
40	50	48	150 AT, 3P, 230V, MCCB	3 - 50.0	+	G14.0	IMC, 40	1R,1B,1Y,G	-
10	-		15AT, 2P, 230V, MCCB	2-2.0	-	-	IMC, 20	1R1B	-
67	174	188	300AT, 3P, 230V, MOC8	3 - 175.0	+	G 30.0	IMC, 80	1R,18,1Y, G	-
1 - 80 M	IM DIA. IM	260.49 260.49 C	Amperes Amperes						
OJEC	T TITLE/ I	LOCATION			-	IM	PLEMENTING	G AGENCY:	SH
			LECTRICAL POWER SY			0	CAVITE	STATE	

BACOOR CAMPUS

E-8

UNIVERSITY

L: DPE (DISTRIBUT	UTION PANEL E)	CABLE: 3 - 50.0 SQMM THHN+ 1 CONDUIT: IMC, 40 MM DIA.			ENCLOS	200 AF, 3P, 230V, MCCB SURE: NEMA 1 ING: SURFACE	PHASE			CONDUIT: IMC,				ENCLO	,200 AF, 3P, 230V,MCC SURE: NEMA 1 TING: SURFACE	
15: 230		LOCATION: SECOND FLOOR					VOLT	3: 230	LOCAT	ION: SECOND FLOOP	LOAD IN RATING		CIRCUIT PROTECTION	N Size of Conduct	or Size Of	
	CROUT DESCRIPTION	NO OF	AMPERES	GROUT PROTECTION	Size of Conductor	Conduit In C	Color Code CKT N	0. CIRCUIT DESCRIPTIO	N NO		TAGE	PERES		SC SC	Conduit In MM MM #	Color Code
ND. C	CROUT DESCRIPTION	OUTLET WATTAGE VOLTAGE 30	AB CA BC	CIRCUIT BREAKER RATING		N(G)		LIGHTING OUTLET	2		3.0 AB	CA BC	CROUT BREAKER RAT 15AT, 2P. 230V, MCC		W(G) MC, 20	1R, 1B,G
	LIGHTING OUTLET	18 1800 230 18 1800 230	7.83	15AT, 2P, 230V, MCCB	2-20	IMC, 20 IMC, 20	1R,1B,G 2	LIGHTING OUTLET	2	3 2300 2	30		0 15AT, 2P, 230V, MCC 20AT, 2P, 230V, MCC	8 2-2.0	MC, 20	1R 1B,G 1Y,1R.G
0	CONVENIENCE OUTLET	10 2000 230 10 2000 230	8.70	20AT, 2P, 230V, MCCB 20AT, 2P, 230V, MCCB	2-3.5 + 0	G 2.0 MC, 20	1Y,1RG 3 1Y,1RG 4 1Y,1RG 5	CONVENIENCE OUTL	ET 6	1200 2 3000 2	30	5.22	20AT, 2P, 230V, MCC 50AT, 2P, 230V, MCC	8 2-3.5 +	G2.0 MC, 20 G5.5 MC, 20	1Y,1R,G 18,1Y,G
1	ACU POWER OUTLET	1 3000 230	23 23	50AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB		G 5.5 IMC, 20 G 5.5 IMC, 20	1B,1Y,G 6	ACU POWER OUTLE	T 1	3000 2 3000 2	30 23		50AT, 2P, 230V, MCC	2-8.0 +	G 5.5 MC, 20 G 5.5 MC, 20	1B,1Y,G 1R,1B,G
	ACU POWER OUTLET SPARE	1 3000 230	23	50AT, 2P, 230V, MOC8		G 5.5 MC, 20	1R,1B,G	SPARE	the second s	2	30	23	50AT, 2P, 230V, MCC			1Y.1R.G
-	ACU POWER OUTLET	1 3000 230	23	50AT, 2P, 230V, MOCB	2-80 + 0	G 5.5 MC, 20	1Y,1R,G 8	SPARE			30			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
	SPARE		46 40 39	150 AT, 3P, 230V, MCCB	3 3-50.0 + G	3 14.0 MC 40 1	1R,1B,1Y,G	TOTAL		20200 2	30 0 46	37 45	150 AT, 3P, 230V, MO	CB 3-50.0 +	G 14.0 MC, 40	1R, 1B, 1Y, G
	TOTAL and CURRENT PROTECTION COMPU							MAIN FEEDER and CURRENT PROTE	CTION COMPUTATION:							
		A.A. 3. 10-	1 x DF = 108.42	Amperes			NO	re:			.732)) + (125% x lm)] x Di .732)) + (250% x lm)] x Di		12 Amperes 17 Amperes			
OTE CON	aund Miles	/ _R . [(46 x 1.732)) + (125% x Im / _{cs} . [(46 x 1.732)) + (125% x Im		Amperes				G - Means Ground Wire 1R- Color RED			MM THHN+1-14.0 SQM		A. IM C			
G - Means Grou 1R- Color RED 1B- Color BLAC 1Y- Color YELL	ICK D	use: 3 - 60.0 SQM M THHN+1 - 14. use: 150 AT, 200AF, 3P, 230V,M CC		IMC				1B- Color BLACK 1Y- Color YELLOW 1G- Color GREEN			6AF, 3P, 230V,MCCB					
1G- Color GRE		and and handle					This E Any a	lectrical Design is good only for the	above connected load	s. owed,						
additional electrica	is good only for the above conn cal load connection in the future trical load system will be done.	e is not allowed,						redesign of electrical load system								
EL: DPF (DISTRIBI		CABLE 3 - 50.0 SQMM THHN+1	14.0 SQMM THW			200 AF, 3P, 230V, MCCB	PANE	: DP2 (DISTRIBUTION PANEL 2)	-	CABLE: 3 - 175.0 SC CONDUIT: IMC, 1-80 N	MM THHN+1-80.0 SQM M DIA.	MTHW		ENCLOSE	00AF, 3P, 230V,MCCE IRE: NEMA 1	3
SE 3		CONDUIT: IMC, 40 MM DIA.				SURE: NEMA 1 ING: SURFACE	PHAS		LO	CATION: HALLWAY,	SECOND FLOOR			MOUNTIN	G: SURFACE	
.TS: 230		LOCATION: SECOND FLOOR	ATING	CIRCUIT PROTECTION	Size of Conductor	Size Of			PANEL/CIRC		LOAD IN RATING	s	CIRCUIT PROTECTION	Size of Conductor	Size Of	
END.	CIRCUIT DESCRIPTION		AMPERES		SQ.	Conduit In (Color Code CKT I	ID. CIRCUIT DESCRIPTION		olt-Amp VOLT		CA BC	CIRCUIT BREAKER RATING	SQ. M		Color Code
	LIGHTING OUTLET	18 1800 230	AB CA BC 7.83	CRCUIT BREAKER RATIN 15AT, 2P, 230V, MCCB	IG SQ. MM THHN THM	M(G) IMC, 20	1R,1B,G 1		DPE	19600 230	0 46	40 <u>39</u> 40 <u>39</u>	150 AT, 3P, 230V, MCCB	3-50.0 + G 3-50.0 + G	14.0 IMC, 40	1R,1B,1Y,G 1R,1B,1Y,G
2	LIGHTING OUTLET	18 1800 230 10 2000 230	8.70	15AT, 2P, 230V, MCCB 20AT, 2P, 230V, MCCB	2-2.0 2-3.5 + 0	MC, 20 G 2.0 MC, 20	1R,1B,G 2 1Y,1R,G 3			19600 230 17600 230 20200 230	0 46	33 37	150 AT, 3P, 230V, MCCB	3-50.0 + G 3-50.0 + G 3-50.0 + G	14.0 IMC, 40	1R,1B,1Y,G 1R,1B,1Y,G
4	CONVENENCE OUTLET	10 2000 230 1 3000 230	8.70	20AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB	2-8.0 + 0	G 2.0 MC, 20 G 5.5 MC, 20	1Y,1RG 4 1B,1Y,G 5	LIGHTING CIRCUIT	DPH 5DP2	20200 230 1900 230		37 45 8	150 A1, 3P, 230V, MCCB		IMC, 20	1R,1B
6	ACU POWER OUTLET	1 3000 230 1 3000 230	23 23	50AT, 2P, 230V, MCCB 50AT, 2P, 230V, MCCB		G 5.5 MC, 20 G 5.5 MC, 20	1B,1Y,G 1R,1B,G	SPARE								101019 0
	SPARE ACU POWER OUTLET	1 3000 230	23	50AT, 2P, 230V, MCC8	2-8.0 + 0	G 5.5 MC, 20	1Y,1RG	TOTAL		78900 230	0 184	159 159	300AT, 3P, 230V, MCCB	3-1/5.0 + G	30.0 1 1140, 80	16,18,11,6
		230						MAIN FEEDER and CURRENT PRO	TECTION COMPUTATION	5						
	SPARE						(D (D (V C									
	SPARE		46 40 39	150 AT, 3P, 230V, MCCE	B 3-50.0 + G	G 14.0 MC, 40	1R,1B,1Y,G NO		1 _R 1 _{C8-}		.732))] x DF = .732))] x DF =	254.95 254.95				
	and the second second second	19600 230 0			B 3-50.0 + G	G 14.0 IMC, 40	1R,1B,1Y,G NO	TE: G - Means Ground Wire 1R- Color RED	1 _{C8} .	[(184 x		254.95				
	TOTAL	19600 230 0	()) × DF = 108.42	150 AT, 3P, 230V, MCCE 2 Amperes 7 Amperes	B 3-50.0 + C	G 14.0 MC, 40 1	1R,1B,1Y,G NO	G - Means Ground Wire	l _{cs -} use: 3 - 175.0 SQ	[(184 x	.732))] x DF =	254.95				
MAIN FLEDER (107E: G - Meens Gro	TOTAL R and CLIRRENT PROTECTION COMP inound Wire	19800 230 0 UTATION I _{R_*} ((49 x 1.732)) + (125% x H I _{CD *} ((49 x 1.732)) + (125% x H I (49 x 1.732)) + (125% x H I use: 3 - 50,0 SQM M TH1N+1 - 14	1)] <u>x DF =</u> 108.42 10)] <u>x DF =</u> 137.17 0 SQM M THW IN 40 M M DIA.	2 Amperes 7 Amperes	8 3-50,0 + 0	G 14.0 MC, 40 1	1R,1B,1Y,G NO	G - Means Ground Wire 1R- Color RED 1B- Color BLACK	l _{cs -} use: 3 - 175.0 SQ	[(184 x MM THHN+ 1 - 30.0 S	.732))] x DF =	254.95				
MAIN FEEDER (TOTAL R and CURRENT PROTECTION COMP iround Wire ED ACK	19800 230 0 UTATION I r.e. [(48 x 1.732)) + (125% x H I r.g. ((48 x 1.732)) + (250% x H	1)] <u>x DF =</u> 108.42 10)] <u>x DF =</u> 137.17 0 SQM M THW IN 40 M M DIA.	2 Amperes 7 Amperes	8 3-500 + 0	G 14.0 MC, 40	This	G - Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Electrical Design Is good only for	I _{CS} . USE: 3 - 175.0 SQ USE: 300 AT, 40 he above connected i	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FEEDER (IOTE: G - Meens Grt 18- Color REL 19- Color RL 14- Color VEL 1G- Color GR	TOTAL R and CLIRRENT PROTECTION COMP iround Wire ED ACK ELLOW REEN	19800 230 0 17. [(48 x 1.732)) + (125% x k 1 / co. [(48 x 1.732)) + (125% x k 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)) + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h 1 / co. [(48 x 1.732)] + (250% x h) + (250	1)] <u>x DF =</u> 108.42 10)] <u>x DF =</u> 137.17 0 SQM M THW IN 40 M M DIA.	2 Amperes 7 Amperes	B 3-500 + 0	G 14.0 MC, 40	This I Any e	G - Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color YELLOW 1G- Color GREEN	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FLEDER (IOTE: G - Meens Grr 1R- Color REL 1B- Color GR 1Y- Color YEL 1G- Color GR 9 Electrical Design I 9 effectnical destric	TOTAL R and CLIRRENT PROTECTION COMP iround Wire ED ACK ELOW	19800 230 0 UTATION Image: Register of the state of	1)] <u>x DF =</u> 108.42 10)] <u>x DF =</u> 137.17 0 SQM M THW IN 40 M M DIA.	2 Amperes 7 Amperes	B 3-50.0 + 0	G 14.0 MC, 40	This I Any e	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FLEDER (IOTE: G - Meens Grr 1R- Color REL 1B- Color GR 1Y- Color YEL 1G- Color GR 9 Electrical Design I 9 effectnical destric	TOTAL R and CURRENT PROTECTION COMP iround Wire ED ACK ELOW REEN Is load conly for the above com ical load connection in the futu ical load connection in the futu	Iseoc 230 0 UTATION Image: 1)] × DF = 108.42)] × DF = 137.17 a sQm M TH₩ IN 40 M M DIA. B	2 Amperes 7 Amperes	MAIN: 150 AT, . ENCLOS	200 AF, 3P, 230V, MCCB SURE: NEMA 1	This I Any e	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FEEDER (IOTE: G - Meens Grr 1R- Color REL 1B- Color GRL 1G- Color	TOTAL R and CURRENT PROTECTION COMP iround Wire ED ACK ELOW REEN Is load conly for the above com ical load connection in the futu ical load connection in the futu	I 19800 230 0 UTATION I)] × DF = 108.42)] × DF = 137.17 a sQm M TH₩ IN 40 M M DIA. B	2 Amperes 7 Amperes	MAIN: 150 AT, . ENCLOS	200 AF, 3P, 230V, MCCB	This I Any e	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FEEDER (IOTE: G - Means Gro 1R- Color RLA 19- Color RLA 19- Color GLA 19- Color Color 19- Color 19- Color Color 19-	TOTAL R and CURRENT PROTECTION COMP iround Wire ED ACK ELOW REEN Is load conly for the above com ical load connection in the futu ical load connection in the futu	15800 230 0 UTATION / m. [(48 x 1.732)) + (125% x H / ca. (148 x 1.732)) + (125% x H / ca. Use: 3 - 50.0 SQM M THINH 1 - 14 use: 160 AT, 200AF, 3P, 230V,M C mected loads. 160 AT, 200AF, 3P, 230V,M C CABLE: 3 - 50.0 SQM M THINH 1 - 14 use: CABLE: 3 - 50.0 SQM M THINH 1 - 14 use: CABLE: 3 - 50.0 SQM M THINH 1 - 14 use: LOCATION: SECOND FLOOR LOCATION: SECOND FLOOR	10] × DF = 108.42 10] × DF = 137.17 0 SQM M THW IN 40 M M DIA. B - 14.0 SQMM THW PATING	2 Amperes 7 Amperes	MAIN: 150 AT, ENCLOS MOUNTI	200 AF, 3P, 230V, MCCB SURE: NEMA 1 ING: SURFACE X Size Cf	This I Any e Excep	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FEEDER (IOTE: G - Meens Grr 1R- Color REL 1B- Color GRL 1G- Color	TOTAL R and CURRENT PROTECTION COMP iround Wire ED ACK ELOW REEN Is load conly for the above com ical load connection in the futu ical load connection in the futu	19800 230 0 UTATION / n [(48 x 1.732)) + (125% x k) / ca . [(48 x 1.732)) + (250% x k) / ca . [(48 x 1.732)) + (250% x k) use: 3 - 50.0 SQM M THIN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C mected /osds. rela not ellowed, CABLE 3 - 50.0 SQM M THIN+1 CONDUT: HAC, 40 MM DIA. LOCATION: SECOND FLOOR	108.42 108.42 108.42 108.42 137.17 0 SQMM THW IN 40 MM DIA. 18 - 14.0 SQMM THW	2 Amperes Amperes MC	MAIN: 150 AT, ENCLOS MOUNTI Size of Conductor SQ.	200 AF, 3P, 230V, MCCB SURE: NEMA 1 ING: SURFACE ST Size Cf Conduit h C IMM N/N e	This I Any e	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FEEDER (MAIN FEEDER (107E: G - Meens Grr 1R- Color REC 1B- Color BLA 1Y- Color VEL 1G- Color VEL 1G- Color VEL 1G- Color VEL 1G- Color State (spt redealign of elec INEL : DPG (DISTRI ASE: 3 XLTS: 230 KT NO.	TOTAL R and CURRENT PROTECTION COMP iround Wire ED ACK ELOW REEN is good only for the above com is good only for the a	I 19800 230 0 I 7,e. [(48 x 1.732)) + (125% x k I ce. 1 I ce. [(46 x 1.732)) + (250% x k I ce. 1 use: 3 - 50.0 SQM M THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C nected loads. relanot allowed, 1 CABLE 3 - 50.0 SQM M THHN+ CONDUT: MAC, 40 MM DIA. LOCATION: SECOND FLOOR LOAD N NO OF OUTLET WATTAGE VOLTAGE 3 e 19 1900 230 19 1000	(1) × DF = 108.42 (1) × DF = 137.17 0 SQM M THW IN 40 M M DIA. B - 14.0 SQMM THW SATING AMPERES AB CA BC	CROUT PROTECTION CROUT PROTECTION CROUT BREAKER RATIN TSAT, 2P, 2307, MCCB	MAIN: 150 AT, ENCLOS MOUNTI Size of Conducto VG SQ, MM TH-IN S 2-2.0	200 AF, 3P, 230V, MCCB SURE: NEMA 1 ING: SURFACE Size Of Conduit In MM: MM s MG MM s	This I Any e Excep	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FEEDER (MAIN FEEDER (107E: G - Meens Grr 1R- Color REL 1B- Color BLA 1G- Color GLA 1G- Color	TOTAL R and CURRENT PROTECTION COMP inound Wire ED ACK LLOW REEN Is good only for the above cont feel load connection in the futu contrical load gatem will be done REUTION PANEL G CRCUIT DESCRIPTION LIGHTING OUTLET LIGHTING OUTLET COMVENIENCE OUTLET	I 19800 230 0 ITATION / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (125% x h) / m. [(48 x 1.732)) + (25% x h) / m. [(48 x 1.732)) + (25% x h) / m. [(40 x 1.732)) + (25% x h) / m. [(40 x 1.732) + (25% x h) / m. [(40 x 1.732) + (25% x h) / m. [(40 x 1.732) + (25% x h) / m. [(40 x 1.732) + (25% x h) / m. [(40 x 1.73	D) x DF = 108.42 D) x DF = 137.17 0 SQM M THW IN 40 MM DIA. B - 14.0 SQMM THW XATNG AMPERES AB CA BC 8.09	Amperes A	MAIN: 150 AT, BIOLOS MOUNTI Size of Conductor SQ. MM TH-N 3 2 - 2.0 3 2 - 3.5 + 0	200 AF, 3P, 230V, MCCB SURE: NEMA 1 ING: SURFACE Conduit In NM: MM s M(G) MC, 20 G2.0 MC, 20	Color Code 1R:18,G	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FEEDER (MAIN FEEDER (10/7E: G - Meens Grr 1R- Color REL 1B- Color YEL 1G- Color YEL	TOTAL R and CURRENT PROTECTION COMP inound Wire ED ACK LLOW REEN is good only for the above conn ical load connection in the futu ical load connection in the futu ical load agreem will be done RIBUTION PANEL G) CRCUIT DESCRIPTION LIGHTING CUTLET CONVENENCE CUTLET CONVENENCE CUTLET CONVENENCE CUTLET	Isecon 230 0 If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction If a construction	1)] x DF = 108.42 1)] x DF = 137.17 0 SQM M THW IN 40 M M DIA. B - 14.0 SQMM THW - 14.0 SQMM THW 24 TING AMPERES AB CA 8.09 4.35 23	Amperes A	MAIN: 150 AT, BIOLOS MOUNT Size of Conductor SQ. MAI TH-N 3 2-20 3 2-3.5 + 0 3 2-3.5 + 0 3 2-3.5 + 0	200 AF, 3P, 230V, MCCB SURE : NEMA 1 ING: SURFACE 27 Size Cf Conduit h NM & M(G) MC, 20 G 2.0 MC, 20 G 2.0 MC, 20 G 5.5 MC, 20	Color Code IR:18.G IR:18.G IR:18.G IV:18.G	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAN FEEDER (MAN FEEDER (107E: G - Meene Grr 1R- Color REC 1B- Color BLA 1Y- Color VEL 1G- Color BLA 1G- Color BLA 1	TOTAL Rand CLIRRENT PROTECTION COMP iround Wire ED ACK ELOW REEN Is good only for the above conn iceal load connection in the futu iceal load connection in the futu iceal load connection in the futu iceal load agatem will be done REDUTION PANEL 0) CRCUIT DESCRIPTION LIGHTING OUTLET CONVENENCE OUTLET ACU POWER OUTLET ACU POWER OUTLET ACU POWER OUTLET ACU POWER OUTLET	Isea Isea Isea Intervent Intervent Intervent Intervent Intervent Intervent Intervent Intervent Intervent Intervent Intervent Intervent Intervent Intervent Intervent Intervent	1)1 × DF = 108.42 1)1 × DF = 137.17 0 SQM M THW IN 40 M M DIA. B - 14.0 SQMM THW × ATING AMPERES AB CA BC - 123	Amperes A	MAIN: 150 AT, BIOLOS MOUNTI Size of Conductor Size of Conductor Size of Conductor Size of Conductor MOUNTI- Size of Conductor MOUNTI- Size of Conductor Size	200 AF, 3P, 230V, MCCB SURE : NEMA 1 ING: SURFACE SI Size Of Conduit h MC, 20 MC, 20 G2.0 MC, 20 G2.0 MC, 20 G5.5 MC, 20 G5.5 MC, 20	Color Code IR: IB.G IV.: IRG IV.: IRG IV.: IRG	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
MAIN FEEDER (OTE: G - Meens Grr 1R- Color REL 1B- Color VEL 1G- Color GR 1G- Co	TOTAL TOTAL R and CURRENT PROTECTION COMP inound Wire ED ACK ELOW REEN Is good only for the above conn ELGHTNG ONELT CONVENENCE OTLET ACU POWER OUTLET SPARE COMPONENC S	Iselect CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C CABLE 3 - 50.0 SQMM THHN+1 - 14 use: 160 AT, 200AF, 3P, 230V,M C I A 000 230 1 13 1300 230 1 3000 230 1 3000 230 1 3000 230 1 3000 230 1 3000 230 1 3000 230 1 3000 230 1 3000 230 1 3000 230	1)1 × DF = 108.42 1)1 × DF = 137.17 0 SQM M THW IN 40 M M DIA. B - 14.0 SQMM THW × ATING AMPERES AB CA BC - 123	Amperes A	MAIN: 150 AT, BIOLOS MOUNTI Size of Conductor Size of Conductor SQ. MMITH-N 3 2-2.0 3 2-3.5 + 0 3 2-3.0 + 0 3 2-8.0 + 0	200 AF, 3P, 230V, MCCB SURE: NEMA 1 ING: SURFACE Size Of Conduit In MM MM 8 M(G) MC, 20 G 2.0 MC, 20 G 2.0 MC, 20 G 5.5 MC, 20 G 5.5 MC, 20 G 5.5 MC, 20	Color Code 1R,18,G 1R,18,G 17,18,G 17,18,G 17,18,G 17,18,G 19,19,G 18,19,G 18,19,G 18,19,G	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
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MAIN FEEDER I DOTE: G - Meens Gra 1R- Coira REL 1B- Coira REL 1G- Coira GR. 1G- Coira GR. Electrical Design i additional electric pt radeal gn of elec 1G- Coira GR. 1 1 2 3 1 1 2 3 4 5 6 7 	TOTAL TOTAL TOTAL R and CURRENT PROTECTION COMP wound Wire ED ACK ELOW REEN Is good only for the above com is good only for the above com cercluit Description CRCUIT DESCRIPTION LIGHTING OUTLET LIGHTING OUTLET CONVENENCE OUTLET ACU POWER OUTLET CONVENENCE OUTLET ACU POWER OUTLET CONVENENCE CONVENENCE OUTLET CONVENENCE OUTLET CONVENENCE OUTLET ACU POWER OUTLET CONVENENCE CONVENENCE OUTLET CONVENENCE CONVEN	Image: Second PLOOR Image: Second PLOAD Image:	D) × DF = 108.42 0) × DF = 137.17 0 SQM M THW IN 40 M M DIA. B - 14.0 SQMM THW - 14.0 SQMM THW AB CA BC 8 CA BC 8.09 23 <td< td=""><td>Amperes Amperes Amperes</td><td>MAIN: 150 AT, ENCLOS MOUNTI Size of Conductor SQ. MMTH-N 2 - 2.0 3 2 - 2.0 3 2 - 3.5 + 0 3 2 - 3.5 + 0 3 2 - 3.5 + 0 3 2 - 8.0 + 0</td><td>200 AF, 3P, 230V, MCCB SURE : NEMA 1 ING: SURFACE SI & Of Conduit h MC, 20 MC, 20 G2.0 MC, 20 G2.0 MC, 20 G5.5 MC, 20 G5.5</td><td>Color Code 1R,18,G 1R,18,G 1R,18,G 1Y,1R,G 1Y,1R,G 1B,1Y,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,1Y,G 1Y,1R,1Y,1X,1Y,</td><td>G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect</td><td>اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not</td><td><u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.</td><td>.732))] x DF =</td><td>254.95</td><td></td><td></td><td></td><td></td></td<>	Amperes	MAIN: 150 AT, ENCLOS MOUNTI Size of Conductor SQ. MMTH-N 2 - 2.0 3 2 - 2.0 3 2 - 3.5 + 0 3 2 - 3.5 + 0 3 2 - 3.5 + 0 3 2 - 8.0 + 0	200 AF, 3P, 230V, MCCB SURE : NEMA 1 ING: SURFACE SI & Of Conduit h MC, 20 MC, 20 G2.0 MC, 20 G2.0 MC, 20 G5.5	Color Code 1R,18,G 1R,18,G 1R,18,G 1Y,1R,G 1Y,1R,G 1B,1Y,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1B,1Y,G 1Y,1R,G 1Y,1R,G 1Y,1R,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,G 1Y,1R,1Y,1Y,G 1Y,1R,1Y,1X,1Y,	G - Means Ground Wire IR- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN Bectrical Design Is good only for delitional electrical load connect	اردی۔ use: 3 - 175.0 SQ use: 300 AT, 40 he above connected i on in the future is not	<u>[(184 x</u> MM THHN+ 1 - 30.0 S DAF, 3P, 230V,M CCB Dads.	.732))] x DF =	254.95				
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MAIN FEEDER (MAIN FEEDER (IOTE: G - Meens Grr 1R- Color REC 1B- Color BLA 1'- Color GR a Electrical Design I y additional electric apt redeal gn of alec NEL : DPG (DISTRI ASE 3 NLTS: 230 NEL : DPG (DISTRI ASE 3 NLTS: 230 NLTS: 23	TOTAL TOTAL R and CURRENT PROTECTION COMP inound Wire ED ACK SLOW REEN Is good only for the above cont in the futu setrical load connection in the futu setrical load agatem will be done REDUTION PANEL G CRCUIT DESCRIPTION LIGHTING OUTLET CONVERIENCE OUTLET ACU POWER OUTLET CONVERIENCE OUTLET CONVERIENCE OUTLET CONVERIENCE OUTLET ACU POWER OUTLET ACU POWER OUTLET ACU POWER OUTLET CONVERIENCE OUTLET CONVERIENCE OUTLET CONVERIENCE OUTLET CONVERIENCE OUTLET CONVERIENCE OUTLET CONVERIENCE CONVERSE TOTAL CR and CURRENT PROTECTION COM Ground Wire ED LIACK FELD W Is good only for the above cor priced load agatem will be done PARED BY: END	I 19800 230 0 I 19800 230 0 I no. I no. I no. I no.	D) × DF = 108.42 0) × DF = 137.17 0 SQMM THW IN 40 MM DIA. B - 14.0 SQMM THW - 14.0 SQMM THW AB CA BC 8 0.28 AB CA BC 8.09 23 <td< td=""><td>Amperes Amperes CRCUIT PROTECTION CRCUIT PROTECTION CRCUIT BREAKER RATIN T6AT, 2P, 230V, MCCB T6AT, 2P, 230V, MCCB S0AT, 2P, 230V,</td><td>MAIN: 150 AT, ENCLOS MOUNTI Size of Conductor SIZE of Conductor S</td><td>200 AF, 3P, 230V, MCCB SURE : NEMA 1 ING: SURFACE SIZE OF Conduit In MC, 20 MC, 20 G2.0 MC, 20 G3.5 MC, 20 G5.5 MC, 20 G5.5</td><td>Color Code 1R18.G 1R18.G 1R18.G 1Y.1RG 1Y.1RG 1Y.1RG 1Y.1RG 1R18.IV.G 1R18.IV.G 1R18.IV.G 1R18.JV.G 1R18.JV.G 1R18.JV.G IR18.JV.G</td><td>G - Means Ground Wire IR- Color RED IB- Color BLACK IY- Color GREEN Sectrical Design Is good only for dditional electrical load connect tredesign of electrical load syste</td><td>Ics- use: 3 - 175.0 SQ use: 300 AT, 40 he above connected I on in the future is not in will be done.</td><td>IIIBA X. MM THHN+1 - 30.0 S DAF, 3P, 230V,M CCB adds. allowed, PPROVED BY:</td><td>PROJECT</td><td>254.95 DIA. IM C</td><td>Ampores</td><td></td><td>CAVITE</td><td>STATE</td></td<>	Amperes CRCUIT PROTECTION CRCUIT PROTECTION CRCUIT BREAKER RATIN T6AT, 2P, 230V, MCCB T6AT, 2P, 230V, MCCB S0AT, 2P, 230V,	MAIN: 150 AT, ENCLOS MOUNTI Size of Conductor SIZE of Conductor S	200 AF, 3P, 230V, MCCB SURE : NEMA 1 ING: SURFACE SIZE OF Conduit In MC, 20 MC, 20 G2.0 MC, 20 G3.5 MC, 20 G5.5	Color Code 1R18.G 1R18.G 1R18.G 1Y.1RG 1Y.1RG 1Y.1RG 1Y.1RG 1R18.IV.G 1R18.IV.G 1R18.IV.G 1R18.JV.G 1R18.JV.G 1R18.JV.G IR18.JV.G	G - Means Ground Wire IR- Color RED IB- Color BLACK IY- Color GREEN Sectrical Design Is good only for dditional electrical load connect tredesign of electrical load syste	Ics- use: 3 - 175.0 SQ use: 300 AT, 40 he above connected I on in the future is not in will be done.	IIIBA X. MM THHN+1 - 30.0 S DAF, 3P, 230V,M CCB adds. allowed, PPROVED BY:	PROJECT	254.95 DIA. IM C	Ampores		CAVITE	STATE
MAIN FEEDER (MAIN FEEDER (107E: G - Meens Grr 1R- Color REC 1B- Color BLA 1Y- Color YEL 1G- Color REC 1G- Color YEL 1G- Color YEL 1G- Color SE 1G- Color SE 1G- Color SE 1 2 3 4 5 6 7 8 MAIN FEEDER NOTE: G - Means G 1R- Color RE 1R- Color RE 1R- Color RE 1R- Color RE 1R- Color RE 1R- Color G 1G- Color G 1G- Color G PREP/	TOTAL TOTAL R and CURRENT PROTECTION COMP inound Wire ED ACK SLOW REEN Is good only for the above connection in the futu setrical load connection in the futu setrical load agatem will be done REDITION PANEL G CRCUIT DESCRIPTION LIGHTING OUTLET LIGHTING OUTLET CONVENENCE OUTLET ACU POWER OUTLET CONVENENCE OUTLET CONVENENCE OUTLET ACU POWER OUTLET ACU POWER OUTLET CONVENENCE OUTLET CONVERTING COUTLET CONVERTING OUTLET	I 19800 230 0 I 19800 230 0 0 I no. I no. (48 x 1.732)) + (125% x k 1 I no. I (48 x 1.732)) + (125% x k 1 1 use: 3 - 50.0 SQM M THHN+ 1 - 14 use: 1 1 use: 160 AT, 200AF, 3P, 230V,M C 1 1 1 CABLE 3 - 50.0 SQM M THHN+ 1 - 14 use: 1 1 1 CABLE 3 - 50.0 SQM M THHN+ 1 - 14 use: 1	D) x DF = 108.42 137.17 137.17 0 SQMM THW IN 40 MM DIA. -14.0 SQMM THW -14.0 SQMM THW AB AMPERES AB 6.09 23 246 33 37.17 0 SQMM THW IN 40 MM DIA. CB <	Amperes CROUIT PROTECTION CROUIT PROTECTION CROUIT BREAKER RATIN 15AT, 2P, 230V, MCCB 150AT, 2P, 230V, MCCB 150AT, 2P, 230V, MCCB 150AT, 3P, 230V, 3P, 24V, 4V, 4V, 4V,	MAIN: 150 AT, ENCLOS MOUNTI Size of Conductor Size of Conductor 3 22-20 3 22-20 3 22-3.5 + 0 3 22-3.5 + 0 3 22-8.0 + 0 3 22-8.0 + 0 3 22-8.0 + 0 3 2-8.0 + 0 3 2-8.0 + 0 3 2-8.0 + 0 3 2-8.0 + 0 5 2-	200 AF, 3P, 230V, MCCB SURF: NEMA 1 ING: SURFACE SIZE OF Conduit In MC 20 MC 20 G2.0 MC 20 G2.0 MC 20 G5.5 MC 20 G5.	Color Code 1R18.G 1R18.G 1R18.G 1R18.G 1Y.1RG 1Y.1RG 1Y.1RG 1Y.1RG 1R18.IY.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1B.O IR.1D.O IR.1D.O IR.1D.O IR.1D.O IR.1D.O IR.D	G - Means Ground Wire IR- Color RED IB- Color BLACK 1Y- Color YELLOW IG- Color GREEN Sectrical Design Is good only for ciditional electrical load connect tredesign of electrical load syste J. X. B. NEP	Ics- use: 3 - 175.0 SQ use: 300 AT, 40 he above connected I on In the future is not in will be done.	III BA X. MM THHNH 1 - 30.0 S DAF, 3P, 230V,M CCB Deds. allowed, allowed, PPROVED BY: PPROVED BY:	PROJECT	254.95 DIAL IM C	Ampores	ACOOR CAMPUS		STATE
MAN FEDER (MAN FEDER (107E: G - Meene Grit 1R- Color REC 1B- Color BLA 1Y- Color YEL 1G- Color REC 1G- Color REC 1G- Color STRI ASE 3 LTS: 230 (TN0. 1 2 3 4 5 6 7 8 MAN FEDER MAN FEDER NOTE: G - Means G 1R- Color RE 1B- Color RE 1B- Color Gli 1C- Color YEL 1C- Color YEL 1C- Color YEL 1C- Color YEL 1C- Color STRI 1C- Color RE 1B- Color Gli 1G- Color Gli PREP/ PREP/	TOTAL TOTAL R and CURRENT PROTECTION COMP inound Wire ED ACK SLOW REEN Is good only for the above com is good only for the above com convention in the futu sctrical load agatem will be done REUTION PANEL 09 CRCUIT DESCRIPTION LIGHTING OUTLET CONVENENCE OUTLET ACU POWER OUTLET CONVENTION CONVERTING ADDRE ACU POWER OUTLET ACU POW	Image:	DI × DF = 108.42 137.17 137.17 0 SQMM THW IN 40 MM DIA. - 14.0 SQMM THW - 14.0 SQMM THW AB CA BC 8.00 - 14.0 SQMM THW AMPERES AB CA BC 8.00 23 23 23 23 23 23 23 108.42 11 × DF = 108.42 n)] × DF = 108.42 n)] × DF = 108.42 n)] × DF = 108.42 N S. E	Amperes CROUIT PROTECTION CROUIT PROTECTION CROUIT BREAKER RATIN 15AT, 2P, 230V, MCCB 150AT, 2P, 230V, MCCB 150AT, 2P, 230V, MCCB 150AT, 3P, 230V, 3P, 24V, 4V, 4V, 4V,	MAIN: 150 AT, ENCLOS MOUNTI Size of Conductor SIZE of Conductor S	200 AF, 3P, 230V, MCCB SURF: NEMA 1 ING: SURFACE SIZE OF Conduit In MC 20 MC 20 G2.0 MC 20 G2.0 MC 20 G5.5 MC 20 G5.	Color Code 1R18.G 1R18.G 1R18.G 1R18.G 1Y.1RG 1Y.1RG 1Y.1RG 1Y.1RG 1R18.IY.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1B.O IR.1D.O IR.1D.O IR.1D.O IR.1D.O IR.1D.O IR.D	G - Means Ground Wire IR- Color RED IB- Color BLACK IY- Color GREEN Sectrical Design Is good only for dditional electrical load connect tredesign of electrical load syste	Ics- use: 3 - 175.0 SQ use: 300 AT, 40 he above connected I on In the future is not in will be done.	IIIBA X. MM THHN+1 - 30.0 S DAF, 3P, 230V,M CCB adds. allowed, PPROVED BY:	PROJECT	254.95 DIA. IM C	Ampores		CAVITE	STATE
MAIN FIEDER I OTE: G - Means Gr. 1R. Caira REI 1B. Caira REI 1G. Color GBA 1'Y. Caira VEL 1G. Color GBA Electrical Dasign i additional electric pt redesign of elec VEL : DPG (DISTRI ASE 3 LTS: 230 1 2 3 4 5 6 7 8 MAIN FIEDER MAIN FIEDER MAIN FIEDER Caira REI 1 2 3 4 5 6 7 8 MAIN FIEDER MAIN FIEDER MAIN FIEDER Caira REI 1 2 3 4 5 6 7 1 2 1 2 1 3 4 5 5 6 7 1 2 1 2 1 3 4 5 5 6 7 1 2 1 1 2 1 3 4 5 5 5 6 7 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL TOTAL R and CURRENT PROTECTION COMP inound Wire ED ACK SLOW REEN Is good only for the above com is good only for the above com convention in the futu sctrical load agatem will be done REUTION PANEL 09 CRCUIT DESCRIPTION LIGHTING OUTLET CONVENENCE OUTLET ACU POWER OUTLET CONVENTION CONVERTING ADDRE ACU POWER OUTLET ACU POW	I 19800 230 0 I 19800 230 0 I not in the intervence of the interv	DI × DF = 108.42 137.17 137.17 0 SQMM THW IN 40 MM DIA. - 14.0 SQMM THW - 14.0 SQMM THW AB CA BC 8.00 - 14.0 SQMM THW AMPERES AB CA BC 8.00 23 23 23 23 23 23 23 108.42 11 × DF = 108.42 n)] × DF = 108.42 n)] × DF = 108.42 n)] × DF = 108.42 N S. E	Amperes CROUIT PROTECTION CROUIT PROTECTION CROUIT BREAKER RATIN 15AT, 2P, 230V, MCCB 150AT, 2P, 230V, MCCB 150AT, 2P, 230V, MCCB 150AT, 3P, 230V, 3P, 24V, 4V, 4V, 4V,	MAIN: 150 AT, ENCLOS MOUNTI Size of Conductor Size of Conductor 3 22-20 3 22-20 3 22-3.5 + 0 3 22-3.5 + 0 3 22-8.0 + 0 3 22-8.0 + 0 3 22-8.0 + 0 3 2-8.0 + 0 3 2-8.0 + 0 3 2-8.0 + 0 3 2-8.0 + 0 5 2-	200 AF, 3P, 230V, MCCB SURF: NEMA 1 ING: SURFACE SIZE OF Conduit In MC 20 MC 20 G2.0 MC 20 G2.0 MC 20 G5.5 MC 20 G5.	Color Code 1R18.G 1R18.G 1R18.G 1R18.G 1Y.1RG 1Y.1RG 1Y.1RG 1Y.1RG 1R18.IY.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1B.O IR.1D.O IR.1D.O IR.1D.O IR.1D.O IR.1D.O IR.D	G - Means Ground Wire IR- Color RED IB- Color BLACK 1Y- Color YELLOW IG- Color GREEN Sectrical Design Is good only for ciditional electrical load connect tredesign of electrical load syste J. X. B. NEP	Ics- use: 3 - 175.0 SQ use: 300 AT, 40 he above connected I on In the future is not in will be done.	III BA X. MM THHNH 1 - 30.0 S DAF, 3P, 230V,M CCB Deds. allowed, allowed, PPROVED BY: PPROVED BY:	PROJECT	254.95 DIAL IM C	Ampores	ACOOR CAMPUS	CAVITE	STATE
MAIN FIEDER I TE: G - Meens Grr. 1R-Color BLA 1%-Color BLA 1%-Color BLA 1%-Color BLA 1%-Color BLA 1%-Color BLA ElectriceJ Design I additional electric tradesign of electric additional electric additional electric G - Means G 18-Color BLA 19-Color BLA 19-Color BLA 19-Color SLA 19-Color SLA 19-Color GLA 19-Color GLA	TOTAL TOTAL R and CURRENT PROTECTION COMP inound Wire ED ACK SLOW REEN Is good only for the above com is good only for the above com convention in the futu sctrical load agatem will be done REUTION PANEL 09 CRCUIT DESCRIPTION LIGHTING OUTLET CONVENENCE OUTLET ACU POWER OUTLET CONVENTION CONVERTING ADDRE ACU POWER OUTLET ACU POW	I 19800 230 0 I 19800 230 0 I not in the intervence of the interv	DI × DF = 108.42 137.17 137.17 0 SQMM THW IN 40 MM DIA. - 14.0 SQMM THW - 14.0 SQMM THW AB CA BC 8.00 - 14.0 SQMM THW AMPERES AB CA BC 8.00 23 23 23 23 23 23 23 108.42 11 × DF = 108.42 n)] × DF = 108.42 n)] × DF = 108.42 n)] × DF = 108.42 N S. E	Amperes CROUIT PROTECTION CROUIT PROTECTION CROUIT BREAKER RATIN 15AT, 2P, 230V, MCCB 150AT, 2P, 230V, MCCB 150AT, 2P, 230V, MCCB 150AT, 3P, 230V, 3P, 24V, 4V, 4V, 4V,	MAIN: 150 AT, ENCLOS MOUNTI Size of Conductor Size of Conductor 3 22-20 3 22-20 3 22-3.5 + 0 3 22-3.5 + 0 3 22-8.0 + 0 3 22-8.0 + 0 3 22-8.0 + 0 3 2-8.0 + 0 3 2-8.0 + 0 3 2-8.0 + 0 3 2-8.0 + 0 5 2-	200 AF, 3P, 230V, MCCB SURF: NEMA 1 ING: SURFACE SIZE OF Conduit In MC 20 MC 20 G2.0 MC 20 G2.0 MC 20 G5.5 MC 20 G5.	Color Code 1R18.G 1R18.G 1R18.G 1R18.G 1Y.1RG 1Y.1RG 1Y.1RG 1Y.1RG 1R18.IY.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1Y.G 1R.1B.O IR.1D.O IR.1D.O IR.1D.O IR.1D.O IR.1D.O IR.D	G - Means Ground Wire IR- Color RED IB- Color BLACK 1Y- Color YELLOW IG- Color GREEN Sectrical Design Is good only for ciditional electrical load connect tredesign of electrical load syste J. X. B. NEP	Ics- use: 3 - 175.0 SQ use: 300 AT, 40 he above connected I on In the future is not in will be done.	III BA X. MM THHNH 1 - 30.0 S DAF, 3P, 230V,M CCB Deds. allowed, allowed, PPROVED BY: PPROVED BY:	PROJECT	254.95 DIAL IM C	Ampores	ACOOR CAMPUS	CAVITE	STATE

		EN	CLOSURE : DUNTING:	3P, 230V,MCC NEMA 1 SURFACE	·D	
CIRCUIT PROTECTION	Size of	Can	ductor	Size Of		
CROUT BREAKER RATING	SQ. MM THIN		SQ. MM THM(G)	Conduit In MM #	Color Code	
15AT, 2P, 230V, MCCB	2-20			MC, 20	1R, 1B,G	
15AT, 2P, 230V, MCCB	2-2.0			MC, 20	1R,1B,G	
20AT, 2P, 230V, MCCB	2-3.5	+	G2.0	IMC, 20	1Y,1R,G	
20AT, 2P, 230V, MCCB	2-3.5	+	G2.0	IMC, 20	1Y,1R,G	
50AT, 2P, 230V, MCCB	2-8.0	+	G 5.5	IMC, 20	1B, 1Y, G	
50AT, 2P, 230V, MCCB	2-8.0	+	G 5.5	IMC, 20	1B,1Y,G	
50AT, 2P, 230V, MCCB	2-8.0	+	G 5.5	IMC, 20	1R,1B,G	
50AT, 2P, 230V, MCCB	2-8.0	+	G 5.5	IMC, 20	1Y,1R,G	
150 AT, 3P, 230V, MCC8	3 - 50.0	+	G 14.0	IMC, 40	1R, 1B, 1Y, G	

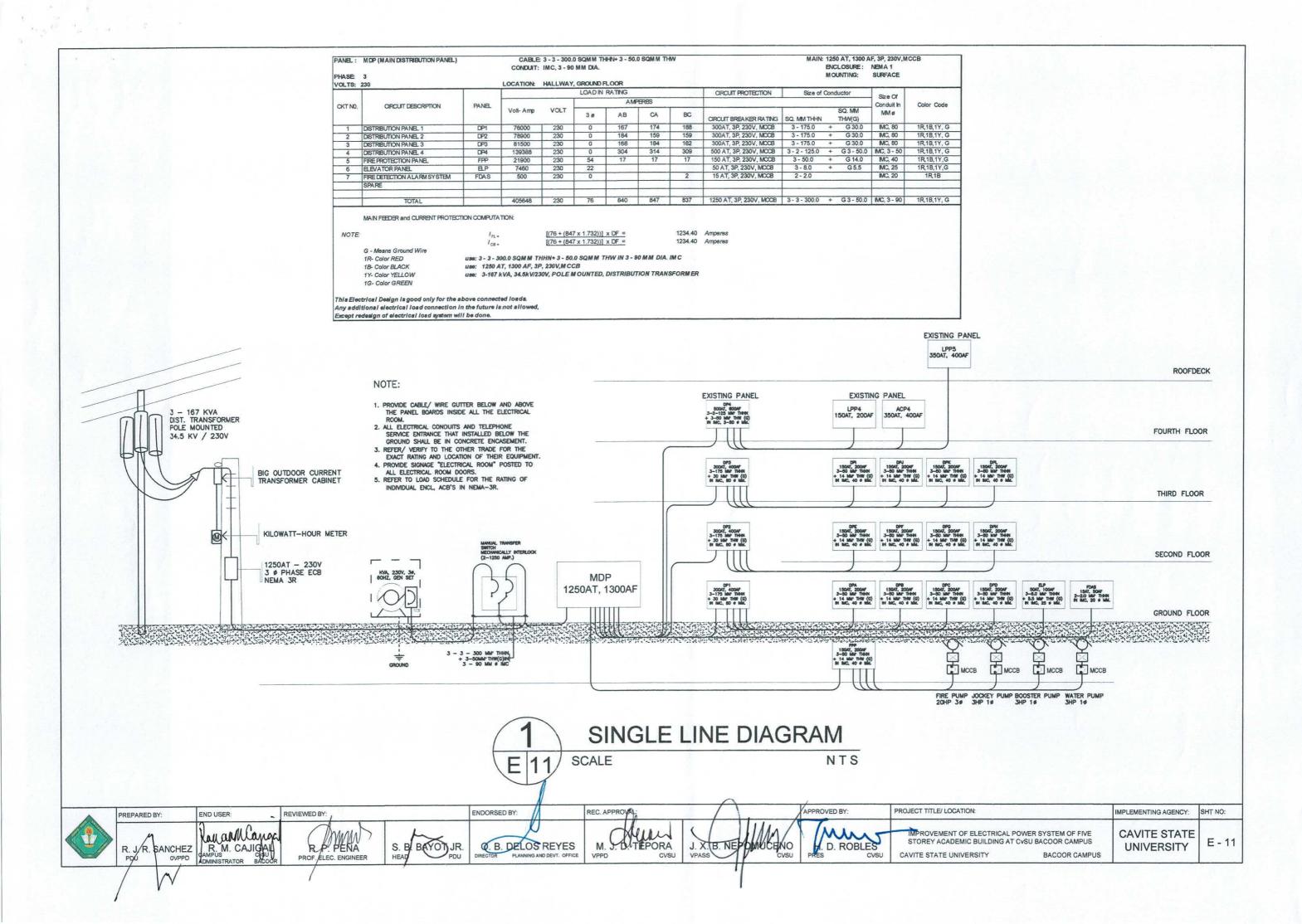
	MAIN	EN	DAT, 400AF, CLOSURE : DUNTING:	3P, 230V,MCC NEMA 1 SURFACE	В
RCUIT PROTECTION	Size of	Con	ductor	Size Of Conduit in	Color Code
UIT BREAKER RATING	SQ. MM THHN		SQ. MM THM(G)	MM ø	
AT, 3P, 230V, MCCB	3-50.0	+	G 14.0	IMC, 40	1R,1B,1Y,G
AT, 3P, 230V, MCCB	3 - 50.0	+	G 14.0	IMC, 40	1R,1B,1Y,G
AT, 3P, 230V, MCCB	3 - 50.0	+	G 14.0	IMC, 40	1R,1B,1Y,G
AT, 3P, 230V, MCC8	3 - 50.0	+	G 14.0	IMC, 40	1R,1B,1Y,G
AT, 2P, 230V, MCCB	2 - 2.0	-		IMC, 20	1R,1B

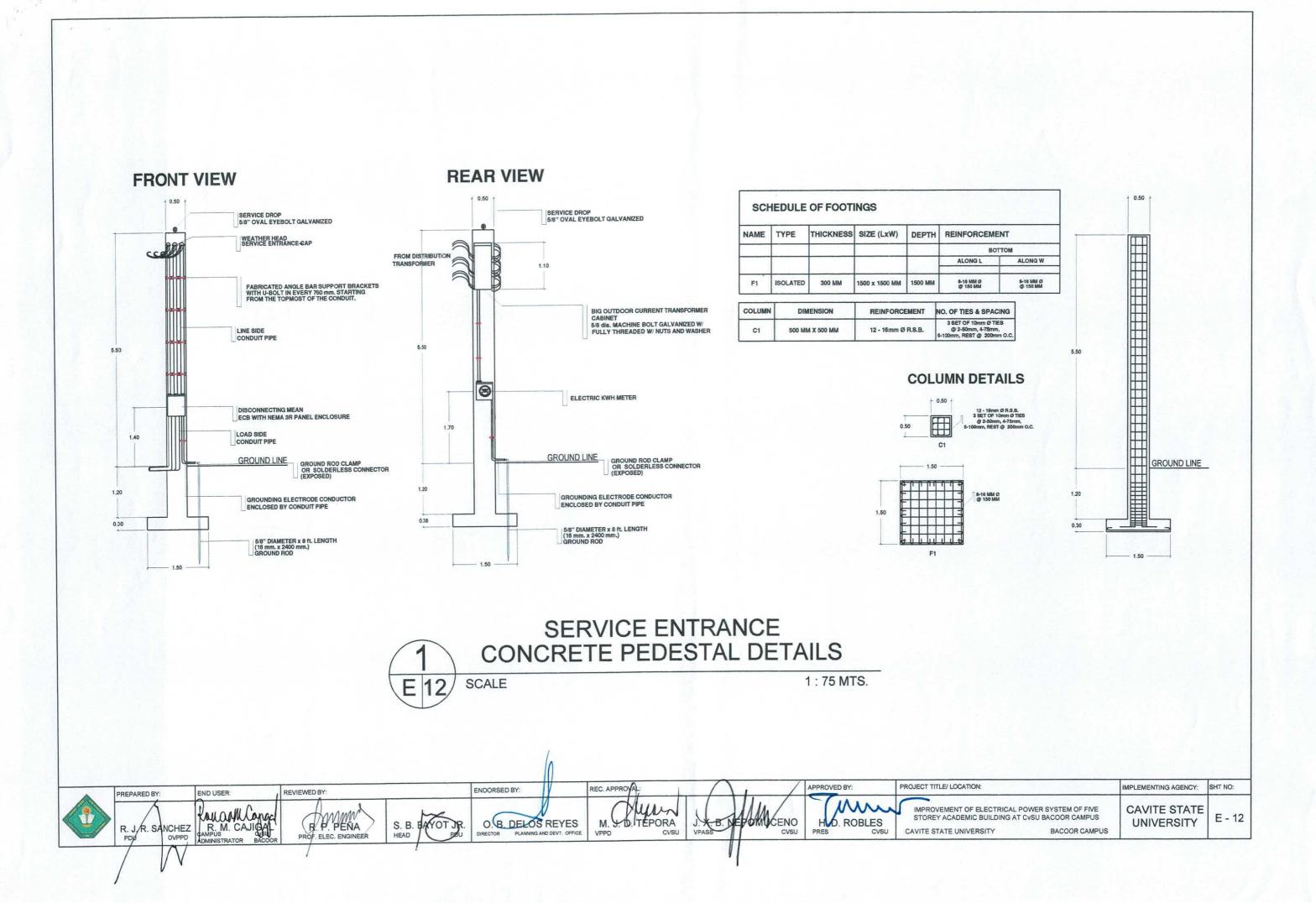
PANEL : DPI (DISTRIBUTION PANELI)	CABLE 3 - 50.0 SQMM THEIN+ 1 - 14.0 SQMM THW CONDUTT: INC, 40 MM DIA.	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NEMA 1	PANEL : DPL (DISTRIBUTION PANEL L)	CABLE: 3 - 50.0 SQM M THINH 1 - 14.0 SQM M THW CONDUTT: IMC, 40 MM DIA.	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE : NEMA 1	
PHASE 3	LOCATION: THIRD FLOOR	MOUNTING: SURFACE	PHASE 3 VOLTS: 230	LOCATION: THIRD FLOOR	MOUNTING: SURFACE	
VOLTS: 230	LOAD IN RATING CROUT PROT NO OF AMPERES	TECTION Size of Conductor Size Of Conduit in Color Code	CKT ND. CRCUT DESCRIPTION	NO OF AMPERES	CIRCUIT PROTECTION Size of Conductor Size Of Conduit in	
CIKETIND. CIRCUIT DESCRIPTION	OUTLET WATTAGE VOLTAGE 3 8 AB CA BC ORCUT BREAKE	SQ. MM MM # ER RATING SQ. MM THHN THW(G)			SQ. MM MM # ICUIT BREAKER RATING SQ. MM THIN THW(G) 15AT, 2P, 230V, MOCE 2 - 2.0 IMC, 20	
1 LIGHTING OUTLET 2 LIGHTING OUTLET	18 1800 230 7.83 15AT, 2P, 230	IV. MCCB 2 - 2.0 IMC, 20 1R, 1B,G IV. MCCB 2 - 2.0 IMC, 20 1R, 1B,G IV. MCCB 2 - 3.5 * G2.0 IMC, 20 1Y, 1R,G	1 LIGHTING OUTLET 2 LIGHTING OUTLET 3 CONVENIENCE OUTLET	24 2400 230 10.43 15	ISAT, 22, 2307, MCCE 2 - 2.0 MC, 20 ISAT, 22, 2307, MCCE 2 - 2.0 MC, 20 ISAT, 22, 2307, MCCE 2 - 3.5 + G2.0 MC, 20	
3 CONVENENCE OUTLET 4 CONVENENCE OUTLET	10 2000 230 8.70 20AT, 2P, 230	IV/ MCCB 2 - 3.6 + G 2.0 MC, 20 11', 1R, G IV/ MCCB 2 - 3.6 + G 2.0 MC, 20 11', 1R, G IV/ MCCB 2 - 8.0 + G 5.6 MC, 20 11', 1R, G IV/ MCCB 2 - 8.0 + G 5.6 MC, 20 18, 1'Y, G	4 CONVENIENCE OUTLET	10 2000 230 8.70 20	20AT, 2P, 230V, MCCB 2 - 3.5 + G 2.0 MC, 20 50AT, 2P, 230V, MCCE 2 - 8.0 + G 5.5 MC, 20	
5 ACU POWER OUTLET 6 ACU POWER OUTLET 7 ACU POWER OUTLET	1 3000 230 23 50AT 2 ⁵ 230	VV, MCCB 2 - 8.0 + G 5.5 MC, 20 18,1Y,G VV, MCCB 2 - 8.0 + G 5.5 MC, 20 1R,18,G	6 ACU POWER OUTLET 7 ACU POWER OUTLET	1 3000 230 23 50	Kit T, 2P, 230V, MCCB 2 - 8.0 + G 5.5 MC, 20 Kit T, 2P, 230V, MCCB 2 - 8.0 + G 5.5 MC, 20	
SPARE ACU POWERCUTLET	230 1 3000 230 23 50AT, 2 ³ , 230	JV, MCCB 2-8.0 + G 5.5 MC, 20 1Y, 1R,G	8 ACU POWER OUTLET SPARE	230 230 230 230 230 23 60 230 230 230 230 230 230 230 230 230 23	0AT, 2P, 230V, MCCB 2 - 8.0 + G 5.5 MC, 20	
SPARE	230	INV. MCCB 3-50.0 + G14.0 MC, 40 1R,1B,1Y,G			50 AT, 3P, 230V, MCCB 3 - 50.0 + G 14.0 IMC, 40	
TOTAL			MAIN FEEDER and CURRENT PROTECTION COM			
MAIN FEEDER and CURRENT FROTECTION COMPU	/m. [(48 x 1.732)) + [126% x lm]] x DF = 108.42 Amperes		NOTE:	In. [(46 x 1.732)) + (125% x lm)] x DF = 108.42 Ampa		
NOTE G - Means Ground Wire	/ _{ce} . [(48 x 1.732)) + (250% x lm)] x DF = 137.17 Amperes		G - Means Ground Wire	I (20 * [(46 x 1.732)) + (250% x lm)] x DF = 137.17 Ample use: 3 - 50.0 SQM M THHN+1 - 14.0 SQM M THW IN 40 M M DIA. IM C	srðs	
1R- Calor RED 1B- Calor BLACK	use: 3 - 50.0 SQMM THHN+1 - 14.0 SQMM THW IN 40 MM DIA. IMC use: 150 AT, 200AF, 3P, 230V,M CCB		1R- Calar RED 1B- Calar BLACK 1Y- Calar YELLOW	use: 150 AT, 200AF, 3P, 230V,MCCB		
1Y- Color YELLOW 1G- Color GREEN			1G- Color GREEN			
This Electrical Design is good only for the above com	rected loads.		This Electrical Design is good only for the above co Any additional electrical load connection in the fu	iture is not allowed,		
Any additional electrical load connection in the future Except redesign of electrical load system will be done.			Except redesign of electrical load system will be do			
PANEL: DPJ (DISTRIBUTION PANEL J)	CABLE: 3 - 50.0 SQMM THIN+ 1 - 14.0 SQMM THW CONDUT: INC, 40 MM DIA.	MAIN: 160 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NEMA 1	PANEL: DP3(DISTRIBUTION PANEL 3)	CABLE 3 - 175.0 SQMM THH+ 1 - 80.0 SQMM THW CONDUT: IMC, 1-80 MM DIA.	MAIN: 300 AT, 400AF, 3P, 230V,MCCB ENCLOSURE: NEMA 1 MOUNTING: SURFACE	
PHASE: 3 VOLTS: 230	LOCATION: THIRD FLOOR	MOUNTING: SURFACE	PHASE 3 VOLTS: 230	LOCATION: HALLWAY, THIRD FLOOR	HE DEVITORION Sha of Conductor	
CKT ND. CIRCUIT DESCRIPTION	LOAD N RATNG CRUIT PRO	Conduit in Color Code		NE/CRC AMPERES	Size Of Conduit in	
		SQ. MM M # (ER RATING SQ. MM THHN THN(G) DV, MCCB 2-2.0 MC, 20 1R,18,G		38 AB CA BC CROUT	Skill, NMW # Skill, NMW # F BREAKER RATING SQ, MM TH-IN TH-W(G) T, 3P, 230V, MCCB 3 - 50.0 + G 14.0 IMC, 40	
	18 1800 230 7.83 15AT, 2P, 230	OV, MCCB 2 - 2.0 MC, 20 1R,1B,G OV, MCCB 2 - 3.6 + G2.0 MC, 20 1Y,1R,G	2 DISTRIBUTION PANEL J	DPJ 18800 230 0 39 46 37 150 AT	T, 3P, 230V, MCCB 3 - 50.0 + G 14.0 MC, 40 T, 3P, 230V, MCCB 3 - 50.0 + G 14.0 MC, 40	
4 CONVENIENCE OUTLET 5 ACU POWER OUTLET	7 1400 230 6.09 20AT, 2P, 230 1 3000 230 23 50AT, 2P, 230	0V, MCCB 2-8.0 + G.5.5 MC, 20 1B, 1Y, G	4 DISTRIBUTION PANEL L		T, 3P, 230V, MCCB 3 - 50.0 + G 14.0 MC, 40 , 2P, 230V, MCCB 2 - 2.0 MC, 20	
6 ACU POWER CUTLET	1 3000 230 23 50AT, 2P, 230 1 3000 230 23 50AT, 2P, 230	0V, MCCB 2 - 8.0 + G 5.5 MC, 20 18, 1Y,G 0V, MCCB 2 - 8.0 + G 5.5 MC, 20 1R, 1B,G				
7 ACU POWER CUTLET	3000 200 20					
7 ACU POWER CUTLET SPARE 8 8 ACU POWER CUTLET	1 3000 230 23 50AT, 2P, 230	0V, MCCB 2 - 8.0 + G 5.5 MC, 20 1Y, 1R,G		81500 230 0 168 184 162 300AT	T, 3P, 230V, MCCB 3 - 175.0 + G 30.0 MC, 80	
7 ACU POWER CUTLET SPARE	I 3000 230 I 23 50AT, 2P, 23 1 3000 230 I 23 50AT, 2P, 23 1 3000 230 I I 160 AT, 3P, 23 1 18800 230 0 39 46 37 160 AT, 3P, 23 UTATION I_{R+} [(46 x 1.732)) + (125% x im)] x DF = 108 42 Amperes I_{C3+} [(46 x 1.732)) + (125% x im)] x DF = 137.17 Amperes	0V, MCCB 2-8.0 + G5.5 IMC, 20 1Y, IR.G 30V, MCCB 3-50.0 + G14.0 IMC, 40 1R, IB, 1Y, G	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW			
	1 3000 230 23 1 3000 230 23 50AT, 29, 233 1 3000 230 23 50AT, 29, 233 1 16800 230 23 50AT, 29, 233 1 16800 230 0 39 46 37 160 AT, 39, 23 UTATION /n. (149 ± 1.732)) + (125% ± m)] ± DF = 108.42 Ampres 137.17 Ampres		MAIN FEEDER and CURRENT PROTECTION O NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color PELACK use 1Y- Color YELLOW 1G- Color OPELOW This Electrical Design is good only for the above Any additional electrical load connection in the	COMFUTATION:		
7 ACU POMPECUTLET SPARE SPARE 8 ACU POMPECUTLET SPARE SPARE TOTAL TOTAL MAIN FEEDER and CURRENT FROTECTION COMPL NO TE G - Means Ground Wire 1R- Color RED 1B- Color RELACK 1Y- Color FEED 1G- Color GREEN This Fleeter	I 3000 230 I 230 I 231 50AT, 2P, 233 I 13000 233 I 233 50AT, 2P, 233 I 13000 230 I I 3000 233 I 233 50AT, 2P, 233 I 13000 230 0 39 46 37 150 AT, 3P, 23 I <		MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be	COMFUTATION: $I_{R_{-}}$ [(184 x 1.732))] x DF = 254.95 Amperes $I_{CB_{-}}$ [(184 x 1.732))] x DF = 254.95 Amperes at 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C at 300 AT, 400AF, 3P, 230V,M CCB a connected loads. a future is not allowed, done.		
7 ACU POMPCUTLET SPARE SPARE 8 ACU POMPCUTLET SPARE SPARE TOTAL TOTAL MAIN FEEDER and CLRRENT PROTECTION COMPL NOTE: G - Means Ground Wire 1R- Color RED 1B- Color RED 1B- Color GREEN 1G- Color GREEN 1G- Color GREEN	I 3000 230 I 23 50AT, 2P, 23 1 3000 230 I 23 50AT, 2P, 23 1 3000 230 I 23 50AT, 2P, 23 1 18800 230 0 39 46 37 160 AT, 3P, 23 UTATION Image: Idex 1.732() + (125% x im)] x DF = 108 42 Ampares Image: Idex 1.732() + (125% x im)] x DF = 108 42 Ampares Ice. [(46 x 1.732()) + (125% x im)] x DF = 108 42 Ampares Ice. [(46 x 1.732()) + (125% x im)] x DF = 108 42 Ampares Ice. [(46 x 1.732()) + (125% x im)] x DF = 137.17 Ampares Ice. 180 AT, 200 AF, 3P, 230V,M CCB Image: 180 AT, 200 AF, 3P, 230V,M CCB Image: 180 AT, 200 AF, 3P, 230V,M CCB Image:	30V, MCCB 3-500 + G 14.0 IMC, 40 1R,18,1Y,G	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load anatem will be Except redesign of electrical load anatem will be PANEL : S FPP (FIRE PROTECTION PANEL)	COMFUTATION:		
7 ACU POMPE CUTLET SPARE SPARE 8 ACU POMPE CUTLET SPARE SPARE TOTAL TOTAL MAIN FEEDER and CURRENT PROTECTION COMPL NOTE G - Means Ground Wire 1R- Color RED 1B- Color RED 1B- Color SELACK 1Y- Color VELLOW 1G- Color GREEN This Electrical Dasign is good only for the above contin This Directical I col connection in the future	I 3000 230 I 1 3000 230 23 50AT, 2P, 233 1 3000 230 23 50AT, 2P, 233 1 18800 230 0 39 46 37 150 AT, 3P, 23 UTA TION: /r. [(46 x 1.732)) + (125% x in)] x DF = 108 42 Ampares /ca [(46 x 1.732)) + (25% x in)] x DF = 137.17 Ampares /ca [(46 x 1.732)) + (25% x in)] x DF = 137.17 Ampares use: 3 - 50.0 SQM M THHN+ 1 - 14.0 SQM M THW IN 40 M M DIA. IM C use: 150 AT, 200AF, 3P, 230V,M CCB	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE : NEWA 1	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be	COMPUTATION: _{R.*} [(184 x 1.732))] x DF = 254.95 Amperes _{Cos} . [(184 x 1.732))] x DF = 254.95 Amperes x: 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 M M DIA. IM C x: 300 AT, 400AF, 3P, 230V,M CCB e connected loads. o future is not allowed, done. CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CONDUT: IMC, 40 M M DIA. LOCATION: GROUND FLOOR	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE : NEMA 1 MOUNTING: SURFACE	
7 ACU POMPRCUTLET SPARE SPARE 8 ACU POMPRCUTLET SPARE SPARE TOTAL TOTAL MAIN FEEDER and CURRENT PROTECTION COMP. NOTE G - Means Ground Wire 1R. Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above contri Any additional electrical load connection in the future	I 3000 230 I I SOAT, 2P, 230 1 3000 230 23 SOAT, 2P, 230 I	30V, MCCB 3-500 + G14.0 INC, 40 1R, 18, 1Y, G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NENA 1 MOUNTING: SURFACE	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3	COMPUTATION:	MAIN: 160 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor SQ. MM Size Of Conductor	
7 ACU POMPRCUTLET SPARE SPARE 8 ACU POWPRCUTLET SPARE SPARE TOTAL TOTAL MAIN FEEDER and CURRENT PROTECTION COMP. NOTE G - Means Ground Wire 1R- Color RED 1B- Color RED 1B- Color RED 1B- Color RELOW 1G- Color GREEN This Electrical Design is good only for the above contra Any additional electrical load connection in the future Except redesign of electrical load system will be done. PANEL: DPK (DISTRIBUTION PANEL K) PHASE: 3	I 3000 230 I 230 I 1 3000 230 23 50AT, 2P, 233 1 </td <td>30V, MCCB 3 - 50.0 + G 14.0 MC, 40 1R, 18, 1Y, G 30V, MCCB 3 - 50.0 + G 14.0 MC, 40 1R, 18, 1Y, G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSUBE: NEMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of Conductor SQ. MM Mount In Color Code</td> <td>MAIN FEEDER and CURRENT PROTECTION O NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color YELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT NO. CROUT DESCRIPTION</td> <td>COMPUTATION:</td> <td>MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE SRCUIT PROTECTION Size of Conductor Size Of Conduit In MV e COUT BREAKER RATING SQ. MM TH-IN SQ. MM</td>	30V, MCCB 3 - 50.0 + G 14.0 MC, 40 1R, 18, 1Y, G 30V, MCCB 3 - 50.0 + G 14.0 MC, 40 1R, 18, 1Y, G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSUBE: NEMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of Conductor SQ. MM Mount In Color Code	MAIN FEEDER and CURRENT PROTECTION O NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color YELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT NO. CROUT DESCRIPTION	COMPUTATION:	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE SRCUIT PROTECTION Size of Conductor Size Of Conduit In MV e COUT BREAKER RATING SQ. MM TH-IN SQ. MM	
7 ACU POMPR CUTLET 8 ACU POMPR CUTLET 8 ACU POMPR CUTLET 9 SPARE 1 SPARE 1 TOTAL MAIN FEEDER and CURRENT PROTECTION COMPA NOTE: G - Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above conn Any additional electrical load connection in the futur Except redesign of electrical load gatem will be donee. PANEL : DPK (DISTRIBUTION PANEL N) PHASE: 3 VOLTS: 230 CKT NO CRCUIT DESCRPTION	I 3000 230 I I 1 3000 230 23 50AT, 2P, 233 1 3000 230 23 50AT, 2P, 233 1 18800 230 0 39 46 37 160 AT, 3P, 23 1 18800 230 0 39 46 37 160 AT, 3P, 23 1 18800 230 0 39 46 37 160 AT, 3P, 23 1 18800 230 0 39 46 37 160 AT, 3P, 23 1/n - 1 14800 230 0 39 46 37 160 AT, 3P, 23 1/n - 1 14800 1.329% x m]l x DE = 137.17 Ampares 137.17 Ampares use: 3 - 60.0 SQM M THHN+ 1 - 14.0 SQM M THW IN 40 M M DIA. IM C use: 150 AT, 200AF, 3P, 230V,M CCB 160 AT, 200AF, 3P, 230V,M CCB CABLE 3 - 50.0 SQMM THEN+ 1 - 14.0 SQMM THW CABLE 3 - 50.0 SQMM THEN+ 1 - 14.0 SQMM THW CONDUT: IMC, 40 MM DIA. L	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NENA 1 MOUNTING: SURFACE STECTION Size of Conductor Size Of Color Code SQ, MM TH-IN TH/IG) MM; 20 1R,1B,G	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1'Y- Color YELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLT8: 230 CKT NO. CROLIT DESCRIPTION 1 FRE PUMP 2 JOCKEY PLMP SPARE	COMPUTATION: / n	MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size Of Conduit in MV e Curt BREAKER RATING SQ. MM TH-HN TH-WG(G)	
7 ACU POMPRCUTLET SPARE SPARE 8 ACU POMPRCUTLET SPARE SPARE TOTAL SPARE MAIN FEEDER and CURRENT PROTECTION COMP. NOTE G - Means Ground Wire 1R. Color RED 18. Color RED 1B. Color BLACK 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above contra Any additional electrical load connection in the future Except redesign of electrical load system will be done. PANEL: PHASE: 3 VOLTS: 230 CKT ND CROUT DESCRIPTION 1 LUGHTING GUTLET 2 LUGHTING GUTLET 3 CONVENERCE CUTLET	I 3000 230 I 230 I 231	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NEMA 1 MOUNTING: SURA ACE DTECTION Size of Conductor Size Of Conductor Size Of OV, MCCB 2 - 2.0 MM, 20 OV, MCCB 2 - 3.0 MC, 20 1R,18,G OV, MCCB 2 - 3.0 MC, 20 1R,18,G OV, MCCB 2 - 3.0 MC, 20 1R,18,G	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT N0. OROUT DESCRIPTION 1 FRE PUMP 2 JOCKEY FUMP 3 BOOSTER PUMP 6 SPARE 3 BOOSTER PUMP	COMPUTATION: / n	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BXCLOSURE : NEMA 1 MOUNTING: SURFACE SROUIT PROTECTION Size of Conductor SQ. MM Curt BREAKER RATINS SQ. MM MM = DAT, 3P, 230V, MCCB 2-22.0 + G 14.0 MC, 32 JAT, 3P, 230V, MCCB 2-8.0 + G 5.5	
7 ACU POMPRCUTLET 8 ACU POMPRCUTLET 8 ACU POMPRCUTLET 9 SPARE 1 TOTAL MAIN FEEDER and CLRRENT PROTECTION COMPA NOTE: G - Means Ground Wire 1R- Color RED 18- Color BLACK 1Y- Color YELLOW 1G- Color GREEN This Electrical Design is good only for the above conn Any additional electrical load connection in the futur Except radesign of electrical load ensistem will be doree. PANEL: DPK (DISTRIBUTION PANEL K) PHASE: 3 VOLTS: 230 OKT NO CRCUIT DESCRPTION 1 LIGHTING OUTLET 2 LIGHTING OUTLET 3 CONVENIBLICE UTLET 4 CONVENIBLICE UTLET	I 3000 230 I I 1 3000 230 23 50AT, 2P, 233 1 3000 230 23 50AT, 2P, 233 1 18000 230 0 39 46 37 160 AT, 3P, 23 1 18800 230 0 39 46 37 160 AT, 3P, 23 1 18800 230 0 39 46 37 160 AT, 3P, 23 1 18800 230 0 39 46 37 160 AT, 3P, 23 1/r_e - [(46 x 1.732)) + (2596 x lm)] x DF = 137.17 Amperes 1/r_e - [(46 x 1.732)) + (2596 x lm)] x DF = 137.17 Amperes use: 3 - 60.0 SQM M THHN+ 1 - 14.0 SQM M THW IN 40 M M DIA. IMC use: 150 AT, 2000 AF, 3P, 230 U, M CCB 150 AT, 2000 AF, 3P, 230 U, M CCB CABLE 3 - 60.0 SQMM THER+ 1 - 14.0 SQM M THW CONDUT: IMC, 40 MM DIA. LOCATION: THRD FLOOR CABLE 3 - 50.0 SQM M THERE CABLE 3 - 50.0 SQM M THERE <t< td=""><td>MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NENA 1 MOUNTING: SURFACE SIGE OF Conduct In MOUNTING: SURFACE SQ_MM TH-IN TH/N(G) MC, 20 1R,18,G GV, MCCB 2 - 2.0 MC, 20 1R,18,G GV, MCCB 2 - 2.0 MC, 20 1R,18,G GV, MCCB 2 - 3.6 G 2.0 1Y, 1R,G GV, MCCB 2 - 3.6 G 2.0 1Y, 1R,G GV, MCCB 2 - 3.6 G 2.0 1Y, 1R,G GV, MCCB 2 - 8.0 + G 5.5 MC, 20 1Y, 1R,G GV, MCCB 2 - 8.0 + G 5.5 MC, 20 18,1Y,G</td><td>MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color RED use 1B- Color RED use 1Y- Color YELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTB: 230 OKT NO. CIRCUIT DESCRIPTION 1 FIRE PUMP 2 JOCKEY PUMP SPARE 3 BOOSTER FUMP 4 WATER PUMP SPARE SPARE</td><td>COMPUTATION: I_R_* [(184 x 1.732)]] x DF = 254.95 Amperes I_Co_* [(184 x 1.732)]] x DF = 254.95 Amperes x: 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 3 - 00 AT, 400AF, 3P, 230V,M CCB 254.95 Amperes a connected loads. 5 uture is not allowed, done. 4 CABLE 3 - 50.0 SQMIM THRN+ 1 - 14.0 SQM M THW CONDUCT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR 1 15000 230 54 100 1 2300 230 17.00 50 1 2300 230 17.00 50 1 2300 230 17.00 50</td><td>MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NEMA 1 MOUNTING: SURFACE SROUIT PROTECTION Size of Conductor SQL MM TH-N TH-YQG Conduit In MM CALT BREAKER RATING SQL MM TH-N TH-YQG DIAT, 3P, 230V, MCCB 2 - 80.0 G 5.5 MC, 20 DIAT, 2P, 230V, MCCB 2 - 80.0 G 5.5 MC, 20 DIAT, 2P, 230V, MCCB 2 - 80.0 + G 5.5 MC, 20</td></t<>	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NENA 1 MOUNTING: SURFACE SIGE OF Conduct In MOUNTING: SURFACE SQ_MM TH-IN TH/N(G) MC, 20 1R,18,G GV, MCCB 2 - 2.0 MC, 20 1R,18,G GV, MCCB 2 - 2.0 MC, 20 1R,18,G GV, MCCB 2 - 3.6 G 2.0 1Y, 1R,G GV, MCCB 2 - 3.6 G 2.0 1Y, 1R,G GV, MCCB 2 - 3.6 G 2.0 1Y, 1R,G GV, MCCB 2 - 8.0 + G 5.5 MC, 20 1Y, 1R,G GV, MCCB 2 - 8.0 + G 5.5 MC, 20 18,1Y,G	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color RED use 1B- Color RED use 1Y- Color YELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTB: 230 OKT NO. CIRCUIT DESCRIPTION 1 FIRE PUMP 2 JOCKEY PUMP SPARE 3 BOOSTER FUMP 4 WATER PUMP SPARE SPARE	COMPUTATION: I_R_* [(184 x 1.732)]] x DF = 254.95 Amperes I_Co_* [(184 x 1.732)]] x DF = 254.95 Amperes x: 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 3 - 00 AT, 400AF, 3P, 230V,M CCB 254.95 Amperes a connected loads. 5 uture is not allowed, done. 4 CABLE 3 - 50.0 SQMIM THRN+ 1 - 14.0 SQM M THW CONDUCT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR 1 15000 230 54 100 1 2300 230 17.00 50 1 2300 230 17.00 50 1 2300 230 17.00 50	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NEMA 1 MOUNTING: SURFACE SROUIT PROTECTION Size of Conductor SQL MM TH-N TH-YQG Conduit In MM CALT BREAKER RATING SQL MM TH-N TH-YQG DIAT, 3P, 230V, MCCB 2 - 80.0 G 5.5 MC, 20 DIAT, 2P, 230V, MCCB 2 - 80.0 G 5.5 MC, 20 DIAT, 2P, 230V, MCCB 2 - 80.0 + G 5.5 MC, 20	
7 ACU POMPRCUTLET 8 ACU POMPRCUTLET 9 SPARE 8 ACU POMPCUTLET 9 SPARE 1 TOTAL MAIN FEEDER and CLRRENT PROTECTION COMPA NOTE: G - Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above conn Any additional electrical load gatem will be dore. PANEL: DPK (DISTRIBUTION PANEL K) PHASE: 3 CON ENDERC OUTLET 4 CONVENDEC OUTLET 5 ACU POMEROUTLET 6	I 3000 230 I I 1 3000 230 23 50AT, 2P, 233 1 3000 230 23 50AT, 2P, 233 1 18800 230 0 39 46 37 150 AT, 3P, 23 1 18800 230 0 39 46 37 150 AT, 3P, 23 1 18800 230 0 39 46 37 150 AT, 3P, 23 1 18800 230 0 39 46 37 150 AT, 3P, 23 1/r_a [(46 x 1.732)) + (2596 x im)] x DF = 108 42 Ampares 1/r_a [(46 x 1.732)) + (2596 x im)] x DF = 137.17 Ampares use: 150 AT, 200AF, 3P, 230/,M CCB 137.17 Ampares use: 150 AT, 200AF, 3P, 230/,M CCB 137.17 Ampares use: 150 AT, 200AF, 3P, 230/,M CCB 10.43 10AT, 2P, 233 1 100 AS 10.43 16AT, 2P, 233 16 1800 23	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NEMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of Conductor Size Of MC20 1R,1B,G MMC20 1R,1B,G Size Of Conductor Size Of Conductor Size Of Conductor Size Of Conductor Size Of Conductor Size Of Conductor <td>MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color RED use 1B- Color RED use 1G- Color RED use 1G- Color RED use 1G- Color RED use 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT NO. CRCUIT DESCRPTION 1 FRE PUMP 2 JOCKEY PUMP 2 SPARE 3 BOOSTER PUMP SPARE SPARE 4 WATER PUMP SPARE SPARE 4 SPARE 1 TOTAL</td> <td>COMPUTATION: I_R.* [(184 x 1.732)]) x DF = 254.95 Amperes I_Ga.* [(184 x 1.732)]) x DF = 254.95 Amperes x: 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 M M DIA. IM C 254.95 Amperes x: 3 - 00 AT, 400AF, 3P, 230V,M CCB a connected loads. 6 a connected loads. of uture is not allowed, done. done. CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR 0UTLET WATTAGE VOLTAGE AMPERES 0 1 15000 230 54 100 1 2300 230 17.00 60 1 2300 230 17.00 50 1 2300 230 17.00 50 1 2300 230 17.00 50 1 2300 230 17 17 17</td> <td>MAIN: 160 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE: NEMA 1 MOUNTING: SURFACE SRCUIT PROTECTION Size of Conductor Size of Conductor Size of Conductor Conduit in MM # Conduit in MM # DAT, 3P, 230V, MCCB 2 - 82.0 + DAT, 2P, 230V, MCCB 2 - 8.0 + G5.5 DAT, 2P, 230V, MCCB 2 - 8.0 + G5.5 MC, 20</td>	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color RED use 1B- Color RED use 1G- Color RED use 1G- Color RED use 1G- Color RED use 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT NO. CRCUIT DESCRPTION 1 FRE PUMP 2 JOCKEY PUMP 2 SPARE 3 BOOSTER PUMP SPARE SPARE 4 WATER PUMP SPARE SPARE 4 SPARE 1 TOTAL	COMPUTATION: I_R.* [(184 x 1.732)]) x DF = 254.95 Amperes I_Ga.* [(184 x 1.732)]) x DF = 254.95 Amperes x: 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 M M DIA. IM C 254.95 Amperes x: 3 - 00 AT, 400AF, 3P, 230V,M CCB a connected loads. 6 a connected loads. of uture is not allowed, done. done. CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR 0UTLET WATTAGE VOLTAGE AMPERES 0 1 15000 230 54 100 1 2300 230 17.00 60 1 2300 230 17.00 50 1 2300 230 17.00 50 1 2300 230 17.00 50 1 2300 230 17 17 17	MAIN: 160 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE: NEMA 1 MOUNTING: SURFACE SRCUIT PROTECTION Size of Conductor Size of Conductor Size of Conductor Conduit in MM # Conduit in MM # DAT, 3P, 230V, MCCB 2 - 82.0 + DAT, 2P, 230V, MCCB 2 - 8.0 + G5.5 DAT, 2P, 230V, MCCB 2 - 8.0 + G5.5 MC, 20	
7 ACU POMPRCUTLET SPARE SPARE 8 ACU POMPRCUTLET SPARE SPARE TOTAL TOTAL MAIN FEEDER and CURRENT PROTECTION COMPL NO TE G - Means Ground Wire 1R- Color RED 1B- Color RED 1B- Color RELOW 1G- Color REEN This Electrical Design is good only for the above conn Any additional electrical load connection in the futur Except redesign of electrical load system will be done. PANE: DPK (DISTRIBUTION PANEL IX) PHASE: 3 VOLTS: 230 CKT ND CROUT DESCRPTION 1 LIGHTING OUTLET 2 LIGHTING OUTLET 3 CONVENIENCE OUTLET 4 CONVENIENCE OUTLET 5 ACU POMER OUTLET 6 ACU POMER OUTLET	I 3000 230 I I 1 3000 230 23 50AT, 2P, 233 1 3000 230 23 50AT, 2P, 233 1 10800 230 0 39 46 37 150 AT, 3P, 23 1 18800 230 0 39 46 37 150 AT, 3P, 23 1 18800 230 0 39 46 37 150 AT, 3P, 23 1 18800 230 0 39 46 37 150 AT, 3P, 23 1/n - [(46 x 1.732)) + (25% x in)] x DF = 108 42 Ampares 1/n - [(46 x 1.732)) + (25% x in)] x DF = 137.17 Ampares use: 150 AT, 200AF, 3P, 230V,M CCB 137.17 Ampares use: 150 AT, 200AF, 3P, 230V,M CCB 137.17 Ampares use: 150 AT, 200AF, 3P, 230V,M CCB 100 AT, 200AF, 3P, 230 10.00 CABLE 3 - 50.0 SQMM THEN+ 1 - 14.0 SQMM THW IM A MM DIA. IM C LOCATION:	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NEMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of Conductor Size Of MC20 1R,1B,G MMC20 1R,1B,G Size Of Conductor Size Of Conductor Size Of Conductor Size Of Conductor Size Of Conductor Size Of Conductor <td>MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load ayatem will be Except redesign of electrical load ayatem will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT N0. CROUT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP SPARE 3 BOOSTER RUMP 4 WATER RUMP 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 1 TOTAL MAIN FEEDER and CURRENT PROTECTION COM</td> <td>COMPUTATION I_R [(184 x 1.732)]) x DF = 254.95 Amperes I_Co [(184 x 1.732)]) x DF = 254.95 Amperes x: 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 300 AT, 400AF, 3P, 230V,M CCB 400AF, 3P, 230V,M CCB 400AF, 3P, 230V,M CCB te connected loads. 6000 6000 6000 CABLE 3 - 50.0 SQMM THR+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. CONDUT: IM C, 40 MM DIA. CABLE 3 - 50.0 SQMM THR+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. CABLE 3 - 50.0 SQMM THR+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. LOCATION: OROUND FLOOR I 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1</td> <td>MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor CONT PROTECTION Size of Conductor Size of Conductor Size of Conductor Size of Conductor CONT PROTECTION Size of Conductor Size of Conductor Size of Conductor DIAT, 2P, 230V, MCCB 2 -8.0 G5.5 MC, 20 DIAT, 2P, 230V, MCCB 2 -8.0 G5.5 MC, 20 DIAT, 2P, 230V, MCCB 2 -8.0 G14.0</td>	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load ayatem will be Except redesign of electrical load ayatem will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT N0. CROUT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP SPARE 3 BOOSTER RUMP 4 WATER RUMP 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 1 TOTAL MAIN FEEDER and CURRENT PROTECTION COM	COMPUTATION I_R [(184 x 1.732)]) x DF = 254.95 Amperes I_Co [(184 x 1.732)]) x DF = 254.95 Amperes x: 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 300 AT, 400AF, 3P, 230V,M CCB 400AF, 3P, 230V,M CCB 400AF, 3P, 230V,M CCB te connected loads. 6000 6000 6000 CABLE 3 - 50.0 SQMM THR+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. CONDUT: IM C, 40 MM DIA. CABLE 3 - 50.0 SQMM THR+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. CABLE 3 - 50.0 SQMM THR+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. LOCATION: OROUND FLOOR I 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1 1 2300 230 1	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor CONT PROTECTION Size of Conductor Size of Conductor Size of Conductor Size of Conductor CONT PROTECTION Size of Conductor Size of Conductor Size of Conductor DIAT, 2P, 230V, MCCB 2 -8.0 G5.5 MC, 20 DIAT, 2P, 230V, MCCB 2 -8.0 G5.5 MC, 20 DIAT, 2P, 230V, MCCB 2 -8.0 G14.0	
7 ACU POWR CUTLET 8 ACU POWR CUTLET 9 SPARE 8 ACU POWR CUTLET 9 SPARE 1 TOTAL MAIN FEEDER and CLRRENT PROTECTION COMPL NOTE: G - Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color YELLOW 1G- Color GREEN This Effectrical Design is good only for the above connection in the future Except redeelign of electrical load connection in the future Except redeelign of electrical load connection in the future Except redeelign of electrical load system will be dores PANEL: DPK (DISTRIBUTION PANEL K) PHASE: 3 VOLTB: 230 CKT ND CROUIT DESCRIPTION 1 LIGHTING OUTLET 2 LIGHTING OUTLET 3 CONVENENCE OUTLET 5 ACU POWER OUTLET 6 ACU POWER OUTLET 7 ACU POWER OUTLET 8 ACU POWER OUTLET	I 3000 230 I I 1 3000 230 23 50AT, 2P, 23 1 3000 230 23 50AT, 2P, 23 1 18600 230 0 39 46 37 160 AT, 3P, 23 1 18600 230 0 39 46 37 160 AT, 3P, 23 1 18600 230 0 39 46 37 160 AT, 3P, 23 1/r, - [(48 x 1.732)) + (250% x lm)] x DF = 108 42 Ampores 1/r, - [(48 x 1.732)) + (250% x lm)] x DF = 137.17 Ampores use: 3 - 60.0 SQM M THHN+ 1 - 14.0 SQM M THW IN 40 M M DIA. IM C use: 150 AT, 200AF, 3P, 230V,M CCB	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 INC, 40 1R18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB ENCLOSURE: NEMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of Conductor Size Of MC20 1R,1B,G MMC20 1R,1B,G Size Of Conductor Size Of Conductor Size Of Conductor Size Of Conductor Size Of Conductor Size Of Conductor <td>MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1'Y- Color YELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRIPTION 1 FRE PUMP 2 JOCKY PUMP 2 SPARE 3 BOOSTER PUMP 4 WAITER PUMP 4 SPARE 4 WAITER PUMP 5 SPARE 4 SPARE 4 TOTAL MAIN FEEDER and CURRENT PROTECTION COM NCTE: G - Means Ground Wire</td> <td>COMPUTATION $l_{R,*}$ [(184 x 1.732)]) x DF = 254.95 Ampores $l_{Ca,*}$ [(184 x 1.732)]) x DF = 254.95 Ampores x: 3 - 175.0 SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C 254.95 Ampores x: 3 - 00 AT, 400AF, 3P, 230V,M CCB a a a e connected loads. of attars is not allowed, done. a a CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQM M THW CONDUT: IM C, 40 MM DIA. CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQM M THW CONDUT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR LOAD N RATING CARDE 300 230 A 1 15000 230 17.00 10.00 17.00 17.00 17.00 17.00 17.00 17.00 10.469 17.00 10.469 10.469</td> <td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td>	MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1'Y- Color YELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRIPTION 1 FRE PUMP 2 JOCKY PUMP 2 SPARE 3 BOOSTER PUMP 4 WAITER PUMP 4 SPARE 4 WAITER PUMP 5 SPARE 4 SPARE 4 TOTAL MAIN FEEDER and CURRENT PROTECTION COM NCTE: G - Means Ground Wire	COMPUTATION $l_{R,*}$ [(184 x 1.732)]) x DF = 254.95 Ampores $l_{Ca,*}$ [(184 x 1.732)]) x DF = 254.95 Ampores x: 3 - 175.0 SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C 254.95 Ampores x: 3 - 00 AT, 400AF, 3P, 230V,M CCB a a a e connected loads. of attars is not allowed, done. a a CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQM M THW CONDUT: IM C, 40 MM DIA. CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQM M THW CONDUT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR LOAD N RATING CARDE 300 230 A 1 15000 230 17.00 10.00 17.00 17.00 17.00 17.00 17.00 17.00 10.469 17.00 10.469 10.469	MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20	
7 ACU POMPR CUTLET SPARE SPARE 8 ACU POMPR CUTLET SPARE SPARE TOTAL TOTAL MAIN FEEDER and CURRENT PROTECTION COMPL NO TE G - Means Ground Wire 1R- Color BLACK 1Y- Color BLACK 1Y- Color BLACK 1G- Color GREEN This Electrical Design is good only for the above conn Any additional electrical load ennection in the futur Except redesign of electrical load ennection in the futur Except redesign of electrical load system will be done PANEL: DPK (DISTRIBUTION PANEL K) PHASE: 3 VOLTS: 230 CKT ND CRCUIT DESCRPTION 1 LIGHTING OUTLET 2 LIGHTING OUTLET 3 CONVENIBLEC OUTLET 4 CONVENIBLEC OUTLET 5 ACU POWER OUTLET 6 ACU POWER OUTLET 7 ACU POWER OUTLET 8 ACUPOMER OUTLET 8 ACUPOMER OUTLET	I 3000 230 I I SOAT, 2P, 233 1 3000 230 0 39 46 37 150 AT, 3P, 233 1 18800 230 0 39 46 37 150 AT, 3P, 233 1 18800 230 0 39 46 37 150 AT, 3P, 233 1 18800 230 0 39 46 37 150 AT, 3P, 233 1 18800 230 0 39 46 37 150 AT, 3P, 23 1/r.a. [(46 x 1,732)) + (125% x In)] x DE = 137,17 Amperes 137,17 Amperes use: 3.6.0.5 GM M THHN+ 1 - 14.0.5 GM M THW IN 40 M M DIA. IMC use: 150 AT, 200AF, 3P, 230/, M CCB 108.42 Amperes Idea: 1.00AE, T.200AF, 3P, 230/, M CCB CABLE 3 - 50.0 SQMM THEN+ 1 - 14.0 SQMM THW CONDUT: IMC, 40 MM DIA. LOCATION RATING CRECUT PRO 0.0 CF LOAD IN RATING CORCUT PRO	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of MC, 20 Row Size Of MC, 20 MMC28 2 - 2.0 MC20 MC20 MC20 OW, MCCB 2 - 8.0 GZO MC, 20 18,1Y,G <td>MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1B- Color GRED This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT NO. CROUT DESCRIPTION 1 FRE PUMP 2 JOCKEY FUMP 3 BOOSTER PUMP 3 SPARE 3 BOOSTER PUMP 4 WAITER PUMP 4 SPARE 4 TOTAL MAIN FEEDER and CURRENT PROTECTION COM NCTE:</td> <td>COMPUTATION: $I_{R,*}$ [(184 x 1.732)]) x DF = 254.95 Ampores (184 x 1.732)] x DF = 254.95 Ampores x 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C x 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C x 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C x 3 - 07.0 SQM M THW IN 1 - 80 MM DIA. IM C x 3 - 07.0 SQM M THW IN 1 - 80 MM DIA. IM C x 30 AT, 400AF, 3P, 230V,M CCB CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CONDUT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: AM TTAGE VOLTAGE 3 & AB CA BC CRC 1 1 2300 230 17.00 50 17.00 50 17.00 50 17.00 50 17.00 50 17.00 50 17.00 50 17.00 50 1 23</td> <td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td>	MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1B- Color GRED This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT NO. CROUT DESCRIPTION 1 FRE PUMP 2 JOCKEY FUMP 3 BOOSTER PUMP 3 SPARE 3 BOOSTER PUMP 4 WAITER PUMP 4 SPARE 4 TOTAL MAIN FEEDER and CURRENT PROTECTION COM NCTE:	COMPUTATION: $I_{R,*}$ [(184 x 1.732)]) x DF = 254.95 Ampores (184 x 1.732)] x DF = 254.95 Ampores x 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C x 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C x 3 - 175.0 SQM M THHN+ 1 - 30.0 SQM M THW IN 1 - 80 MM DIA. IM C x 3 - 07.0 SQM M THW IN 1 - 80 MM DIA. IM C x 3 - 07.0 SQM M THW IN 1 - 80 MM DIA. IM C x 30 AT, 400AF, 3P, 230V,M CCB CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CABLE 3 - 50.0 SQM M THRN+ 1 - 14.0 SQM M THW CONDUT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: AM TTAGE VOLTAGE 3 & AB CA BC CRC 1 1 2300 230 17.00 50 17.00 50 17.00 50 17.00 50 17.00 50 17.00 50 17.00 50 17.00 50 1 23	MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20	
7 ACU POMPS CUTLET 8 ACU POMPS CUTLET 8 ACU POMPS CUTLET 9 SPARE 1 TOTAL MOTE: G - Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above contra Any edditional electrical load connection in the future Except redealing of electrical load gastern will be done. PANEL: DPK CINTRIBUTION PANEL N PHASE: OKT NO 1 CROWING CUTLET 2 CROWING CUTLET 3 CONVENIESC CUTLET 4 CONVENIESC CUTLET 7 ACUPOWER OUTLET 7 ACUPOWER OUTLET 8 ACUPOWER OUTLET 8 ACUPOWER OUTLET 9 MAIN FEEDER and CURRENT PROTECTION COMPRISE NOTE G - Means Ground Wire	I 3000 230 I 30 46 37 150 AT, 3P, 23 UTATION I 18800 230 0 39 46 37 150 AT, 3P, 23 UTATION I I 126% X 1.732)) + (125% X III) X DF = 108.42 Ampares I rea I I 126% X 1.732)) + (125% X III) X DF = 137.17 Ampares I use: 160 AT, 200AF, 3P, 230V,M CCB I 37.17 Ampares I use: 160 AT, 200AF, 3P, 230V,M CCB I IAO IM IA I use: 160 AT, 200AF, 3P, 230V,M CCB I IAO IAO IAMPRES COADUT: IMC IMO IM IMA IAO IAMPRES IAO	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of MC, 20 Row Size Of MC, 20 MMC28 2 - 2.0 MC20 MC20 MC20 OW, MCCB 2 - 8.0 GZO MC, 20 18,1Y,G <td>MAIN FEEDER and CURRENT PROTECTION CONNOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1B- Color RED use 1This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT NO. CRCUIT DESCRPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER RUMP 4 WATER RUMP 3 SPARE 4 WATER RUMP SPARE SPARE 4 WATER RUMP SPARE TOTAL MAIN FEEDER and CURRENT PROTECTION COM NCTE: G - Means Ground Wire 1B- Color RED 1B- Color RED 1B- Color GREEN This Electrical Design is good only for the above con</td> <td>COMPUTATION I_{DA}^{I} [(184 x 1.732))] x DF = 254.95 Amperes I_{DA}^{I} [(184 x 1.732))] x DF = 254.95 Amperes x: 3 - 175.0 SQMM THHN+1 - 30.0 SQMM THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 3 - 00 A7, 400AF, 3P, 230V,M CCB 254.95 Amperes e connected loads. 5 duture is not allowed, 300 A7, 400AF, 3P, 230V,M CCB CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQMM THW CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR 1000 230 54 17.00 50 17.00 50 11.2300 230 A MPERES 101.000 230 54 17.00 17.00 50 17.00 50 11.2300 230 54 17 104.59 Amperes 104.59 Amperes 104.59 Amperes 104.59 Amperes 104.59 Amperes 104.59 Amperes <td c<="" td=""><td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td></td></td>	MAIN FEEDER and CURRENT PROTECTION CONNOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1B- Color RED use 1This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANEL: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT NO. CRCUIT DESCRPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER RUMP 4 WATER RUMP 3 SPARE 4 WATER RUMP SPARE SPARE 4 WATER RUMP SPARE TOTAL MAIN FEEDER and CURRENT PROTECTION COM NCTE: G - Means Ground Wire 1B- Color RED 1B- Color RED 1B- Color GREEN This Electrical Design is good only for the above con	COMPUTATION I_{DA}^{I} [(184 x 1.732))] x DF = 254.95 Amperes I_{DA}^{I} [(184 x 1.732))] x DF = 254.95 Amperes x: 3 - 175.0 SQMM THHN+1 - 30.0 SQMM THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 3 - 00 A7, 400AF, 3P, 230V,M CCB 254.95 Amperes e connected loads. 5 duture is not allowed, 300 A7, 400AF, 3P, 230V,M CCB CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQMM THW CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQMM THW CONDUT: IM C, 40 MM DIA. LOCATION: GROUND FLOOR LOCATION: GROUND FLOOR 1000 230 54 17.00 50 17.00 50 11.2300 230 A MPERES 101.000 230 54 17.00 17.00 50 17.00 50 11.2300 230 54 17 104.59 Amperes 104.59 Amperes 104.59 Amperes 104.59 Amperes 104.59 Amperes 104.59 Amperes <td c<="" td=""><td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td></td>	<td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td>	MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20
7 ACU POWRE CUTLET 8 ACU POWRE CUTLET 8 ACU POWRE CUTLET 9 SPARE 1 TOTAL MAIN FEEDER and CLRRENT PROTECTION COMPA NOTE: 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 conn Any additional electrical load connection in the futur Except redesign of electrical load connection in the futur Except redesign of electrical load connection in the futur Except redesign of electrical load connection in the futur Except redesign of connection in the futur Except redesign of connection in the futur Except redesign of electrical load system will be dore. PANE: DPK (DISTRIBUTION PANE, N) PHASE: 3 VOLTS: 230 CKT NO CRCUIT DESCRPTION 1 LIGHTING OUTLET 2 LIGHTING OUTLET 3 CONVENDEC OUTLET 4 CONVENDEC OUTLET 5 ACU POWER OUTLET 6 ACU POWER OUTLET 7 ACU POWER OUTLET 8 ACU POWER OUTLET 8 ACU POWER OUTLET <tr< td=""><td>I 3000 230 I I 3000 230 I 230 I 1 3000 230 I 300 39 46 37 150 AT, 3P, 23 I I DE 1 106 42 Ampores I <th< td=""><td>MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of MC, 20 Row Size Of MC, 20 MMC28 2 - 2.0 MC20 MC20 MC20 OW, MCCB 2 - 8.0 GZO MC, 20 18,1Y,G <td>MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANE: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP 2 SPARE 3 BOOSTER PUMP 4 WAITER PUMP 4 SPARE 4 WAITER PUMP 5 SPARE 4 WAITER PUMP 5 SPARE 5 Color RED 16 Color BLACK 17- Color VELLOW 16- Color GREEN</td><td>COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0$</td><td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td></td></th<></td></tr<>	I 3000 230 I 230 I 1 3000 230 I 300 39 46 37 150 AT, 3P, 23 I I DE 1 106 42 Ampores I <th< td=""><td>MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of MC, 20 Row Size Of MC, 20 MMC28 2 - 2.0 MC20 MC20 MC20 OW, MCCB 2 - 8.0 GZO MC, 20 18,1Y,G <td>MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANE: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP 2 SPARE 3 BOOSTER PUMP 4 WAITER PUMP 4 SPARE 4 WAITER PUMP 5 SPARE 4 WAITER PUMP 5 SPARE 5 Color RED 16 Color BLACK 17- Color VELLOW 16- Color GREEN</td><td>COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0$</td><td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td></td></th<>	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of MC, 20 Row Size Of MC, 20 MMC28 2 - 2.0 MC20 MC20 MC20 OW, MCCB 2 - 8.0 GZO MC, 20 18,1Y,G <td>MAIN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load connection in the Except redesign of electrical load system will be PANE: S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP 2 SPARE 3 BOOSTER PUMP 4 WAITER PUMP 4 SPARE 4 WAITER PUMP 5 SPARE 4 WAITER PUMP 5 SPARE 5 Color RED 16 Color BLACK 17- Color VELLOW 16- Color GREEN</td> <td>COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. 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CRCUIT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP 2 SPARE 3 BOOSTER PUMP 4 WAITER PUMP 4 SPARE 4 WAITER PUMP 5 SPARE 4 WAITER PUMP 5 SPARE 5 Color RED 16 Color BLACK 17- Color VELLOW 16- Color GREEN	COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0 $	MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20	
7 ACU POMPR CUTLET 8 ACU POMPR CUTLET 8 ACU POMPR CUTLET 9 SPARE 1 TOTAL MAIN FEEDER and CURRENT PROTECTION COMP. NOTE G - Means Ground Wire 1R. Color BLACK 1Y. Color VELLOW 1G- Color BLACK 1Y. Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above contr Any additional electrical load connection in the futur Except radesign of electrical load agatem will be done PANEL: DPK (DISTRIBUTION PANEL IX) PHASE: 3 VOLTS: 230 CKT ND CROUT DESCRIPTION 1 LIGHTING CUTLET 2 LIGHTING CUTLET 3 CONVENIENCE CUTLET 4 CONVENIENCE CUTLET 5 ACU POWER OUTLET 5 ACU POWER OUTLET 4 CONVENIENCE CUTLET 5 ACU POWER OUTLET 7 ACU POWER OUTLET 8 ACU POWER OUTLET 9 SPARE 8 ACU POWER OUTLET 9 SPARE 1 URTENDER OUTLET 8 ACU POWER OUTLET 9<	$\frac{1}{1} \frac{3000}{200} \frac{230}{230} \frac{1}{1} \frac{1}{20} \frac{1}{23} \frac{1}{1} \frac{1}{20} \frac{1}{1} \frac{1}{1} \frac{1}{20} \frac{1}{1} \frac{1}{1} \frac{1}{20} \frac{1}{1} \frac{1}{1} \frac{1}{20} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{20} \frac{1}{1} \frac{1}{1$	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of MC, 20 Row Size Of MC, 20 MMC28 2 - 2.0 MC20 MC20 MC20 OW, MCCB 2 - 8.0 GZO MC, 20 18,1Y,G <td>MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load system will be Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER PUMP 3 BOOSTER PUMP 4 WATER RUMP 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 5 A Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Cator GREEN This Electrical Design is good only for the above con Any additional electrical load connection in the fut</td> <td>COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0$</td> <td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td>	MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load system will be Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER PUMP 3 BOOSTER PUMP 4 WATER RUMP 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 5 A Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Cator GREEN This Electrical Design is good only for the above con Any additional electrical load connection in the fut	COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0 $	MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20	
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MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0$</td><td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td></td></td></tr<>	Image: 1 3000 230 1 200 230 1 1 3000 230 0 39 46 37 160 AT, 3P, 23 UTATION /n - [(48 × 1.732)) + (125% x lm]) x DF = 108 42 Anpores /n - [(48 × 1.732)) + (125% x lm]) x DF = 137.17 Anpores /n - [(48 × 1.732)) + (125% x lm]) x DF = 137.17 Anpores /n - [(48 × 1.732)) + (125% x lm]) x DF = 137.17 Anpores /n - [(48 × 1.732)) + (125% x lm]) x DF = 137.17 Anpores /n - [(48 × 1.732)) + (125% x lm]) x DF = 137.17 Anpores /n - [(48 × 1.732)] + (125% x lm]) x DF = 137.17 Anpores /n - [(48 × 1.732)] + (125% x lm]) x DF = 137.17 Anpores /n - [(48 × 1.732)] + (125% x lm]) x DF = 137.17 Anpores /n - [(48 × 1.732)] + (125% x lm]] x DF = 108.42 Anpores /n - [(48 × 1.732)] + (125% x lm]] x DF = 108.42 Anpores /n - [(48 × 1.732)] + (125% x lm]] x DF = 108.42 Anpores /n - [(48 × 1.732)] + (125% x lm]] x DF = 108.42 Anpores /n - [(48 × 1.732)] + (125% x lm]] x DF = 108.42 Anpores <td>MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of MC, 20 Row Size Of MC, 20 MMC28 2 - 2.0 MC20 MC20 MC20 OW, MCCB 2 - 8.0 GZO MC, 20 18,1Y,G <td>MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load system will be Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER PUMP 3 BOOSTER PUMP 4 WATER RUMP 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 5 A Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Cator GREEN This Electrical Design is good only for the above con Any additional electrical load connection in the fut</td><td>COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0$</td><td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td></td>	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of MC, 20 Row Size Of MC, 20 MMC28 2 - 2.0 MC20 MC20 MC20 OW, MCCB 2 - 8.0 GZO MC, 20 18,1Y,G <td>MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load system will be Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER PUMP 3 BOOSTER PUMP 4 WATER RUMP 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 5 A Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Cator GREEN This Electrical Design is good only for the above con Any additional electrical load connection in the fut</td> <td>COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0$</td> <td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td>	MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire 1R- Color RED use 1B- Color BLACK use 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above Any additional electrical load system will be Except redesign of electrical load system will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 CKT N0. CRCUIT DESCRPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER PUMP 3 BOOSTER PUMP 4 WATER RUMP 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 4 WATER RUMP 5 SPARE 5 A Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Cator GREEN This Electrical Design is good only for the above con Any additional electrical load connection in the fut	COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0 $	MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20	
7 ACU POWR CUTLET 8 ACU POWR CUTLET 8 ACU POWR CUTLET 9 SPARE 1 TOTAL MAIN FEEDER and CURRENT PROTECTION COMP. NOTE G - Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above contributions / electrical load connection in the futur Except redesign of electrical load system will be done PANEL: DPK [DISTRIBUTION PANEL K] PHASE: 3 VOLTS: 230 CKT NO CRCUIT DESCRPTION 1 LIGHTING OUTLET 2 LIGHTING OUTLET 3 CONVENDEC CUTLET 4 CONVENDEC CUTLET 5 ACU POWE OUTLET 7 ACU POWE OUTLET 8 ACU POWE OUTLET 9 SPARE 8 ACU POWE OUTLET 7 ACU POWE OUTLET 8 ACU POWE OUTLET 9 SPARE 9 SPARE 8 ACU POWE OUTLET 9 ACU POWE OUTLET 9 ACU POWE OUTLET 9 ACU POWE OUTLET	Image: 1 3000 220 1 1 3000 230 1 23 50AT, 2P, 233 1 3000 230 0 39 46 37 150 AT, 3P, 23 1 18800 230 0 39 46 37 150 AT, 3P, 23 1/r_s. [(48 x 1.732)) + (125% x In)] x DF = 108 42 Anpress 1/r_s. [(48 x 1.732)) + (125% x In)] x DF = 137.17 Anpress use: 1.50.0 SQMM THHN+ 1 - 14.0 SQMM THW IN 40 MM DIA. IMC use: 150 AT, 200AF, 3P, 230V,M CCB	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G 30V, MCCB 3 - 50.0 + G 14.0 IMC, 40 1R,18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NBMA 1 MOUNTING: SURFACE DTECTION Size of Conductor Size Of MC, 20 Row Size Of MC, 20 MMC28 2 - 2.0 MC20 MC20 MC20 OW, MCCB 2 - 8.0 GZO MC, 20 18,1Y,G <td>MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire TR- Color RED use. TB- Color BLACK use. TY- Color VELLOW TG- Color GREEN This Electrical Design is good only for the above Any additional electrical load ayatem will be Except redesign of electrical load ayatem will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT ND. CROUT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER PUMP 3 BOOSTER PUMP 4 WATER PUMP 4 WATER PUMP 5 SPARE 4 WATER PUMP 5 SPARE 5 SPARE 5 Color RED 1B- Color RED 1B- Color SELOK 1V- Color VELLOW 1C- Means Ground Wire TR- Color GREEN This Electrical Design is good only for the above on Any additional electrical load ayatem will be down</td> <td>COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0$</td> <td>MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20</td>	MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire TR- Color RED use. TB- Color BLACK use. TY- Color VELLOW TG- Color GREEN This Electrical Design is good only for the above Any additional electrical load ayatem will be Except redesign of electrical load ayatem will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT ND. CROUT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER PUMP 3 BOOSTER PUMP 4 WATER PUMP 4 WATER PUMP 5 SPARE 4 WATER PUMP 5 SPARE 5 SPARE 5 Color RED 1B- Color RED 1B- Color SELOK 1V- Color VELLOW 1C- Means Ground Wire TR- Color GREEN This Electrical Design is good only for the above on Any additional electrical load ayatem will be down	COMPUTATION: $I_{R,*}$ $[(184 \times 1.732))] \times DF =$ 254.95 Amperes I_{C0}^{*} $[(184 \times 1.732))] \times DF =$ 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:3 + 175.0$ SQM M THHN+1 - 30.0 SQM M THW IN 1 - 80 MM DIA. MC 254.95 Amperes $2:0 + 17.0$ $0 + 1.0 $	MAIN: 150 AT, 200 AF, 3P, 230V,MCCB BNCLOSURE:: NEMA 1 MOUNTING: SURFACE SROUT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e SQUIT PROTECTION Size of Conductor Size of Conductor Size of Condult In MM e DAT, 3P, 230V, MCCB 2 - 80. 9 - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 2 - 80. + - 65.5 DAT, 2P, 230V, MCCB 3 - 50.0 + - 614.0 MC, 20	
7 ACU POWER CUTLET 8 ACU POWER CUTLET 9 SPARE 1 TOTAL MAIN FEEDER and CLRRENT PROTECTION COMPA NOTE: G - Means Ground Wire 1R- Color RED 1B- Color BLACK 1Y- Color VELLOW 1G- Color GREEN This Electrical Design is good only for the above contra Any additional electrical load connection in the future Except radiesign of electrical load connection in the future Except radiesign of electrical load connection in the future Except radiesign of electrical load connection in the future Except radiesign of connection in the future State 1 LightTims outlett 2 LightTims outlett 3 CONVENSING CUTLET 4 CONVENSING CUTLET 7 ACU POWER OUTLET 8 ACU POWER OUTLET	Image: 1 3000 220 1 1 3000 230 1 23 50AT, 2P, 233 1 3000 230 0 39 46 37 150 AT, 3P, 23 1 18800 230 0 39 46 37 150 AT, 3P, 23 1/r_s. [(48 x 1.732)) + (125% x In)] x DF = 108 42 Anpress 1/r_s. [(48 x 1.732)) + (125% x In)] x DF = 137.17 Anpress use: 1.50.0 SQMM THHN+ 1 - 14.0 SQMM THW IN 40 MM DIA. IMC use: 150 AT, 200AF, 3P, 230V,M CCB	MAIN: 150 AT, 200 AF, 3P, 230V, MCCB 30V, MCCB 3 - 50.0 + G 14.0 MC, 40 1R18,1Y,G MAIN: 150 AT, 200 AF, 3P, 230V, MCCB BNCLOSURE: NEMA 1 MOUNTING: SURFACE DTECTION Size of Conductor S2, MM MM MM MCCB 2 - 2.0 MC, 20 1R,1B,G GV, MCCB 2 - 2.0 MC, 20 1R,1B,G GV, MCCB 2 - 3.6 G 2.0 MC, 20 1R,1B,G GV, MCCB 2 - 3.6 G 2.0 MC, 20 1R,1B,G GV, MCCB 2 - 8.0 G 5.5 MC, 20 1R,1B,G GV, MCCB 2 - 8.0 G 5.5 MC, 20 1R,1B,G GV, MCCB 2 - 8.0 G 5.5 MC, 20 1R,1B,G GV, MCCB 2 - 8.0 G 5.5 MC, 20 1R,1B,G GV, MCCB 3 - 80.0 + G 5.5 MC, 20 1R,1B,G GV, MCCB 3 - 80.0 + G 5.5 MC, 20 1R,1B,G <td>MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire TR- Color RED use. TB- Color BLACK use. TY- Color VELLOW TG- Color GREEN This Electrical Design is good only for the above Any additional electrical load ayatem will be Except redesign of electrical load ayatem will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT ND. CROUT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER PUMP 3 BOOSTER PUMP 4 WATER PUMP 4 WATER PUMP 5 SPARE 4 WATER PUMP 5 SPARE 5 SPARE 5 Color RED 1B- Color RED 1B- Color SELOK 1V- Color VELLOW 1C- Means Ground Wire TR- Color GREEN This Electrical Design is good only for the above on Any additional electrical load ayatem will be down</td> <td>COMPUTATION: I_{BA}^{*} [[184 x 1.732]]] x DF = 254.95 Amperes I_{BA}^{*} [[184 x 1.732]]] x DF = 254.95 Amperes x: 3 - 175.0 SQMM THHN+1 - 30.0 SQMM THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 300 AT, 400AF, 3P, 230V,M CCB 254.95 Amperes e connected loads. 5 biture is not allowed, done. 1 - CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQMM THW CONDUT: IMC, 40 MM DIA. CABLE 3 - LOCATION: GROUND FLOOR CABLE 3.60.0 SQMM THRN+ 1 - 14.0 SQMM THW - LOCATION: GROUND FLOOR CABLE 3.00 230 54 17.00 60 1 2300 230 17.00 60 1 1000 50 1 2300 230 54 17 17 17 150 MUTLET VATTAGE VOLTAGE 3.8 AB CA BC CRC 1000 50 1 2300 230 17.00 50 101.00 50 101.00 50 1 2300 230 54 17 17 17.00 50 17.00 50<</td> <td>MAIN: 160 AT, 200 AF, SP, 230V, MCCB ENCLOSURE:: NEMA 1 MOUNTING: SURFACE SECUIT PROTECTION SEC of Conductor SIG OF Conduit In MM # CUIT BREAKER RATING SQ. MM TH-IN THW(G) MC # Conduit In MM # MC # CUIT BREAKER RATING SQ. MM TH-IN THW(G) MC # Conduit In MC # MC # CAT, 3P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 + G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 + G 5.5 MC 20 DAT, 3P, 230V, MCCB 3 - 50.0 + G 14.0 MC 40 MC 40 MP IMPLEMENTING AC IMPLEMENTING AC CALVITE S'</td>	MAN FEEDER and CURRENT PROTECTION C NOTE: G - Means Ground Wire TR- Color RED use. TB- Color BLACK use. TY- Color VELLOW TG- Color GREEN This Electrical Design is good only for the above Any additional electrical load ayatem will be Except redesign of electrical load ayatem will be PANEL : S FPP (FIRE PROTECTION PANEL) PHASE: 3 VOLTS: 230 OKT ND. CROUT DESCRIPTION 1 FRE PUMP 2 JOCKEY PUMP 3 BOOSTER PUMP 3 BOOSTER PUMP 4 WATER PUMP 4 WATER PUMP 5 SPARE 4 WATER PUMP 5 SPARE 5 SPARE 5 Color RED 1B- Color RED 1B- Color SELOK 1V- Color VELLOW 1C- Means Ground Wire TR- Color GREEN This Electrical Design is good only for the above on Any additional electrical load ayatem will be down	COMPUTATION: I_{BA}^{*} [[184 x 1.732]]] x DF = 254.95 Amperes I_{BA}^{*} [[184 x 1.732]]] x DF = 254.95 Amperes x: 3 - 175.0 SQMM THHN+1 - 30.0 SQMM THW IN 1 - 80 MM DIA. IM C 254.95 Amperes x: 300 AT, 400AF, 3P, 230V,M CCB 254.95 Amperes e connected loads. 5 biture is not allowed, done. 1 - CABLE 3 - 50.0 SQMM THRN+ 1 - 14.0 SQMM THW CONDUT: IMC, 40 MM DIA. CABLE 3 - LOCATION: GROUND FLOOR CABLE 3.60.0 SQMM THRN+ 1 - 14.0 SQMM THW - LOCATION: GROUND FLOOR CABLE 3.00 230 54 17.00 60 1 2300 230 17.00 60 1 1000 50 1 2300 230 54 17 17 17 150 MUTLET VATTAGE VOLTAGE 3.8 AB CA BC CRC 1000 50 1 2300 230 17.00 50 101.00 50 101.00 50 1 2300 230 54 17 17 17.00 50 17.00 50<	MAIN: 160 AT, 200 AF, SP, 230V, MCCB ENCLOSURE:: NEMA 1 MOUNTING: SURFACE SECUIT PROTECTION SEC of Conductor SIG OF Conduit In MM # CUIT BREAKER RATING SQ. MM TH-IN THW(G) MC # Conduit In MM # MC # CUIT BREAKER RATING SQ. MM TH-IN THW(G) MC # Conduit In MC # MC # CAT, 3P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 + G 5.5 MC 20 DAT, 2P, 230V, MCCB 2 - 8.0 + G 5.5 MC 20 DAT, 3P, 230V, MCCB 3 - 50.0 + G 14.0 MC 40 MC 40 MP IMPLEMENTING AC IMPLEMENTING AC CALVITE S'	

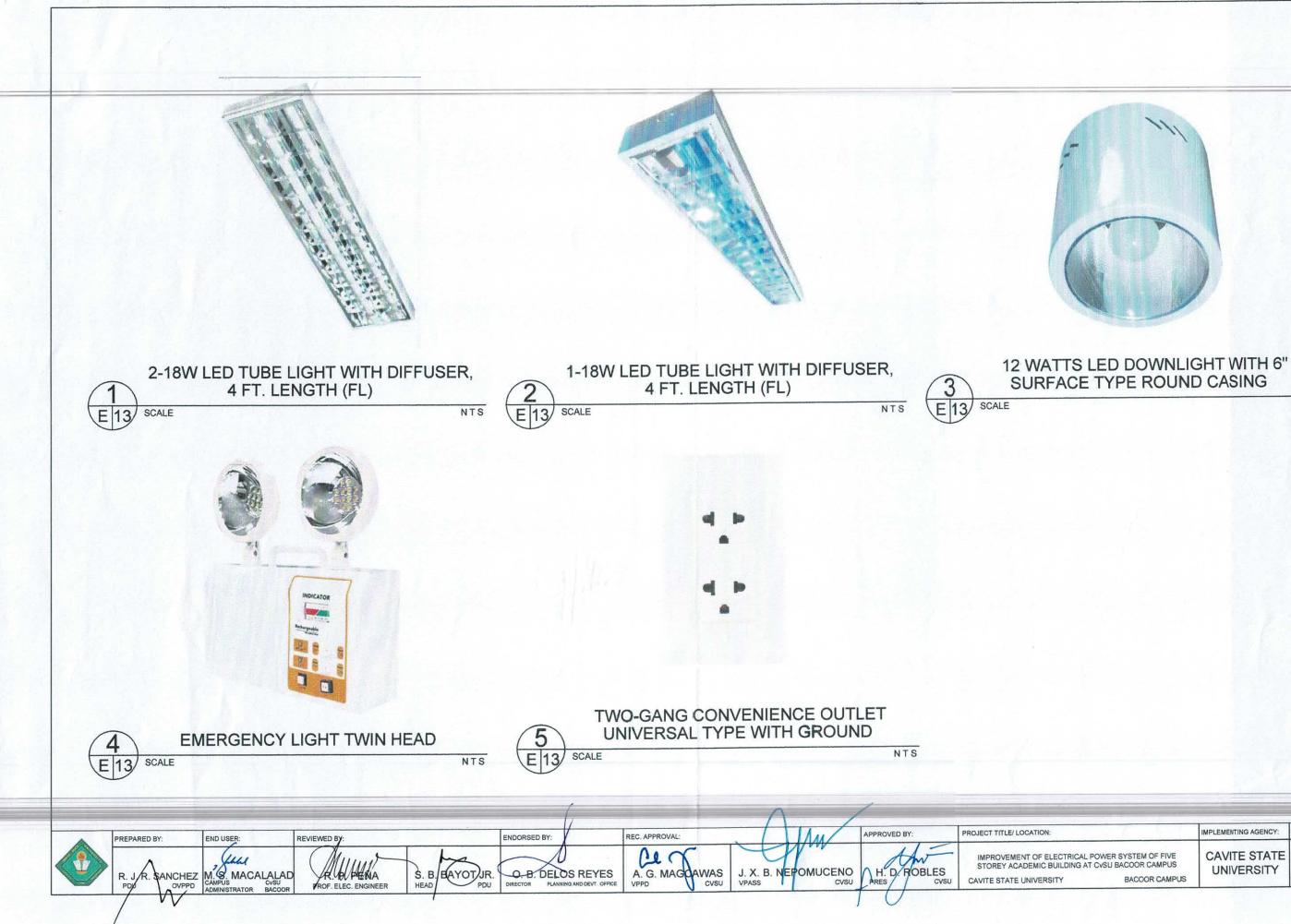
		MAIN:	EN	DAT, 200 AF, CLOSURE : DUNTING:	3P, 230V, MCC NEMA 1 SURFACE	В	
	CIRCUIT PROTECTION	Size of	Con	ductor	Size Of		
	ORCUIT BREAKER RATING	SQ. MM THHN	-	SQ. MM THW(G)	Conduit in MM #	Color Code	
	15AT, 2P, 230V, MCCB	2-20	-		IMC, 20	1R,1B,G	
l	15AT, 2P, 230V, MCCB	2-2.0			MC, 20	1R,1B,G	
	20AT, 2P, 230V, MCCE	2-3.5	+	G2.0	IMC, 20	1Y,1RG	
	20AT, 2P, 230V, MOCE	2-3.5	+	G2.0	IMC, 20	1Y,1R,G	
	50AT, 2P, 230V, MCCB	2-8.0	+	G 5.5	IMC, 20	1B,1Y,G	
	50AT, 2P, 230V, MCCB	2-8.0	+	G 5.5	IMC, 20	1B, 1Y, G	
	50AT, 2P, 230V, MCCE	2-8.0	+	G5.5	MC, 20	1R,1B,G	
	50AT, 2P, 230V, MCCB	2-8.0	+	G 5.5	MC, 20	1Y,1R,G	
	150 AT, 3P, 230V, MCCB	3 - 50.0	+	G 14.0	MC, 40	1R.18.1Y.G	

	MAIN: 300 AT, 400AF, 3P, 230V,MCCB ENCLOSURE: NEMA 1 MOUNTING: SURFACE						
CIRCUIT PROTECTION	Size of	Con	ductor	Size Of Conduit In	Color Code		
RCUIT BREAKER RATING	SO. MM THHN		SQ. MM THW(G)	MM ø			
50 AT, 3P, 230V, MCCB	3 - 50.0	+	G 14.0	IMC, 40	1R,1B,1Y,G		
50 AT, 3P, 230V, MCCB	3 - 50.0	+	G 14.0	BMC, 40	1R,1B,1Y,G		
50 AT, 3P, 230V, MCCB	3-50.0	+	G 14.0	IMC, 40	1R,1B,1Y,G		
50 AT, 3P, 230V, MCCB	3-50.0	+	G 14.0	BMC, 40	1R,1B,1Y,G		
15AT, 2P, 230V, MCCB	2 - 2.0			IMC, 20	1R,1B		
300AT, 3P, 230V, MCCB	3 - 175.0	+	G 30.0	IMC, 80	1R,18,1Y, G		

	MAIN	BN	DAT, 200 AF, CLOSURE : DUNTING:	3P, 230V, MCC NEMA 1 SURFACE	:В
CIRCUIT PROTECTION Size of Conductor		Size Of			
CIRCUIT BREAKER RATING	SQ. MM THHN		SQ. MM THW(G)	Conduit in MM #	Color Code
100AT, 3P, 230V, MCCB	2-22.0	+	G 14.0	IMC, 32	1R,18,1Y,G
50 AT, 2P, 230V, MCC8	2-8.0	+	G 5.5	IMC, 20	1R,1B,G
50 AT, 2P, 230V, MCCB	2-8.0	+	G 5.5	IMC, 20	1Y,1RG
50 AT, 2P, 230V, MCCB	2-8.0	+	G 5.5	MC, 20	18,1Y,G
150 AT, 3P, 230V, MCCE	3 - 50.0	+	G 14.0	MC, 40	1R 18,1Y,G







NTS

	IMPLEMENTING AGENCY: SHT NO:				
	IMPLEMENTING AGENCY:	SHI NO.			
CAL POWER SYSTEM OF FIVE IG AT CVSU BACOOR CAMPUS	CAVITE STATE UNIVERSITY	E - 13			
BACOOR CAMPUS	ONVENDITI				