



BID BULLETIN

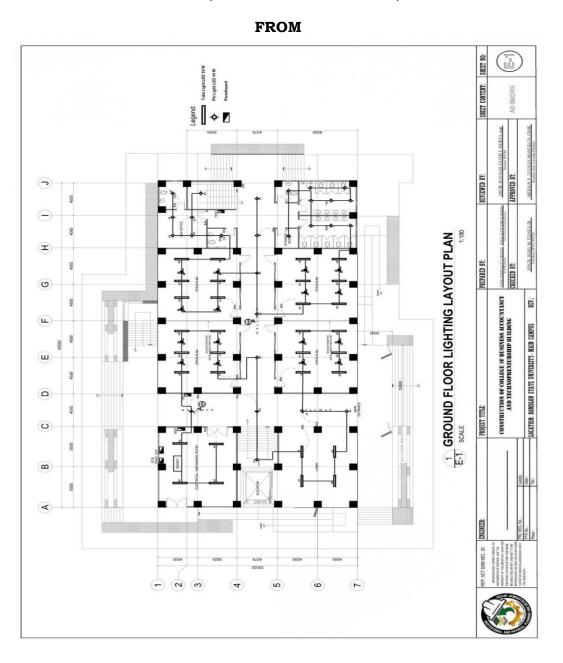
Clarification No. 3

Solicitation No.: RSU-2025-01-004-EPA

то	:	All Prospective Bidders
SUBJECT	:	Change/Modification of the Electrical Plan in all attached/associated documents in the Philippine Bidding Documents (PBDs)
DATE	:	02 December 2024

This Bid Bulletin is issued to inform all prospective bidders of the change/modification of the Electrical Plan in all attached/associated documents in the PBDs. Please take notice of these changes.

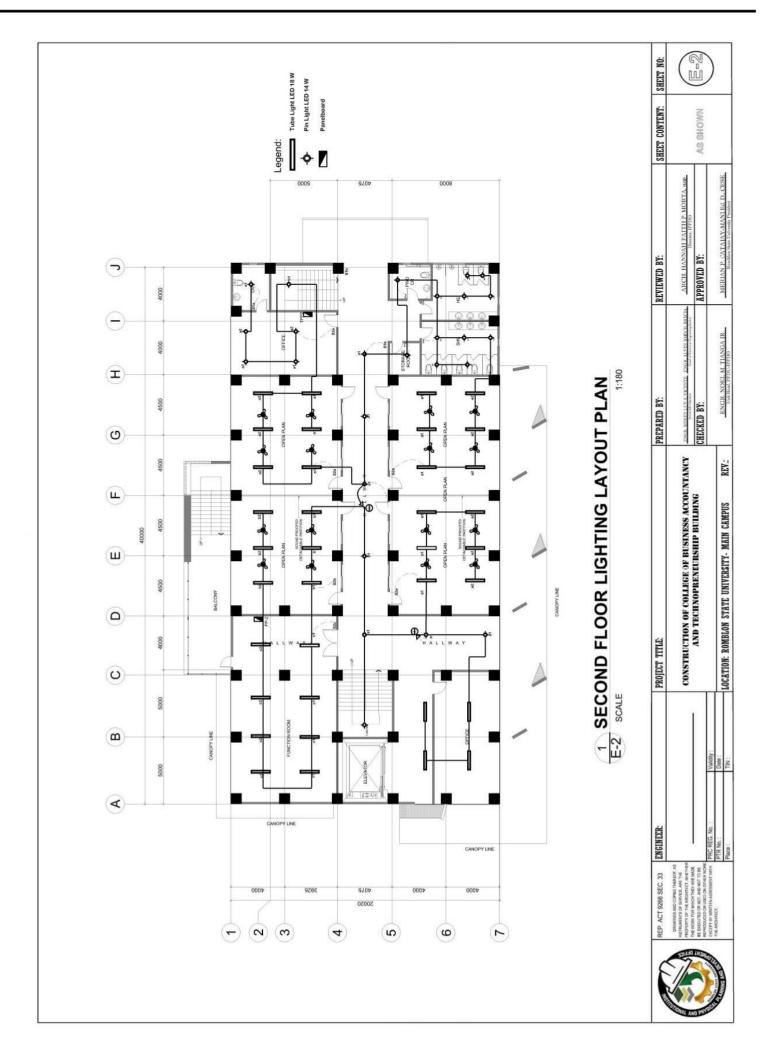
EARLY PROCUREMENT OF CONSTRUCTION OF COLLEGE OF BUSINESS, ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING, MAIN CAMPUS – PHASE 2 (ABC: PhP10,000,000.00)



Serving with Honor and Excellence!



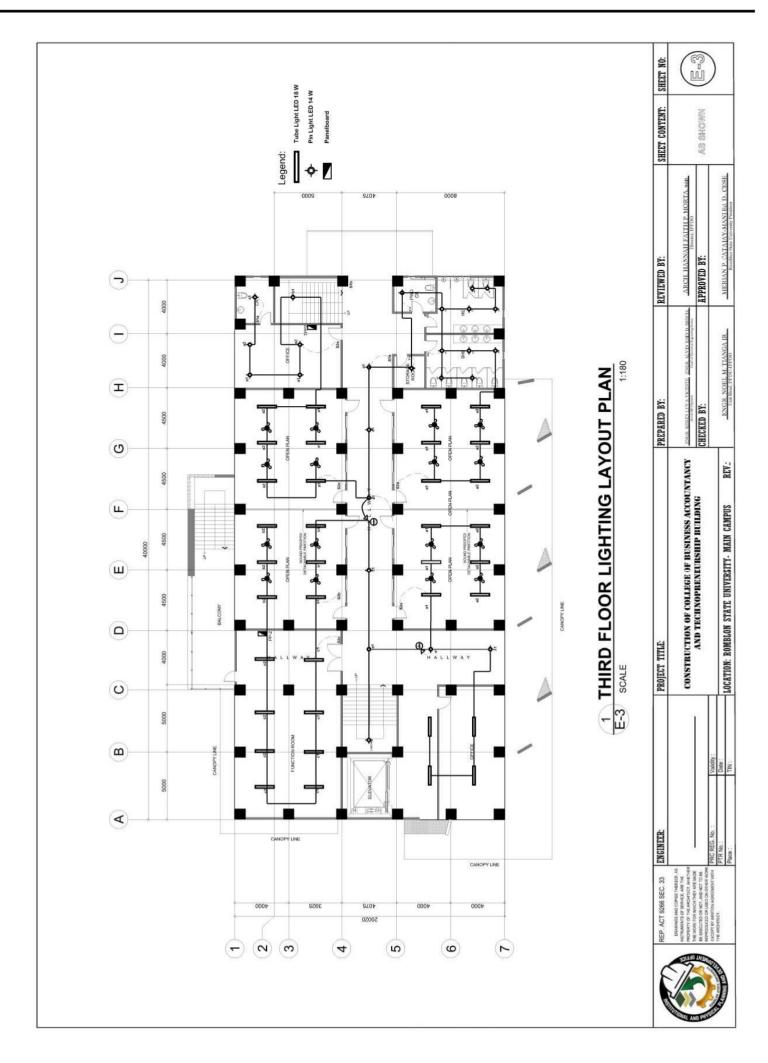






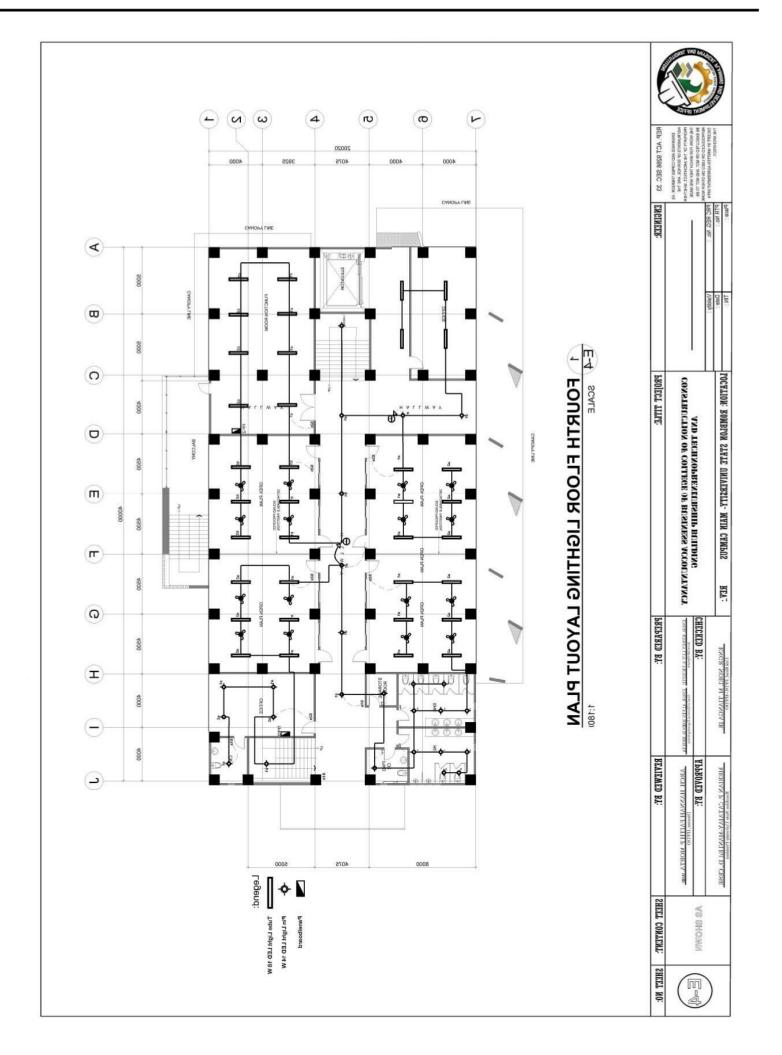






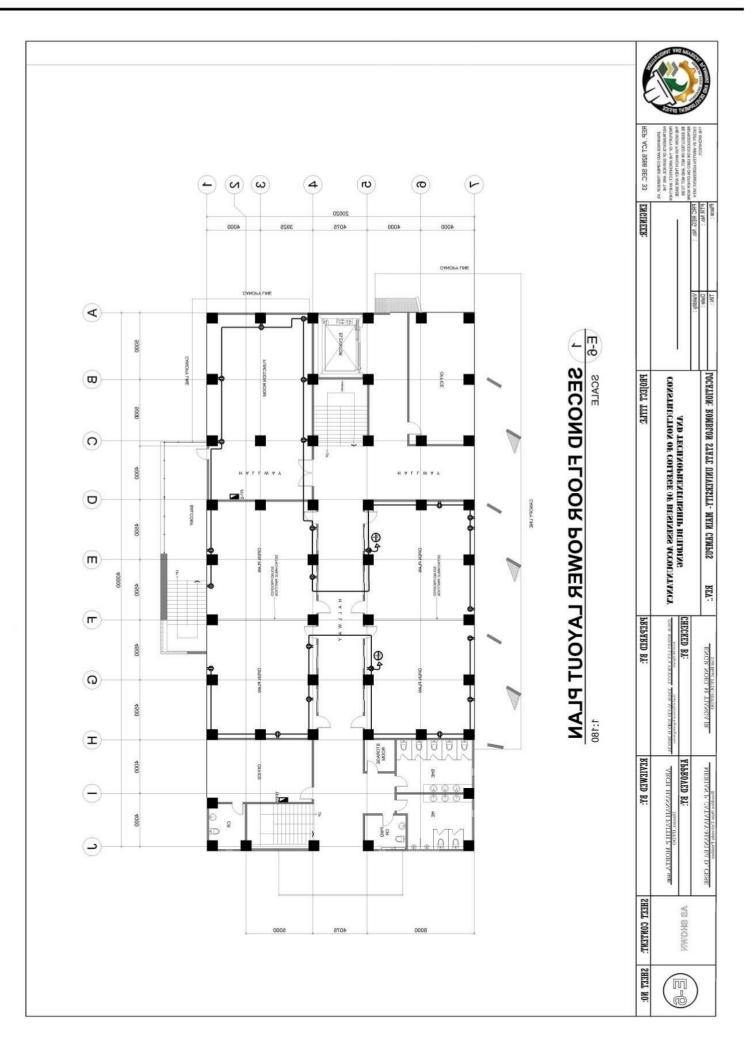








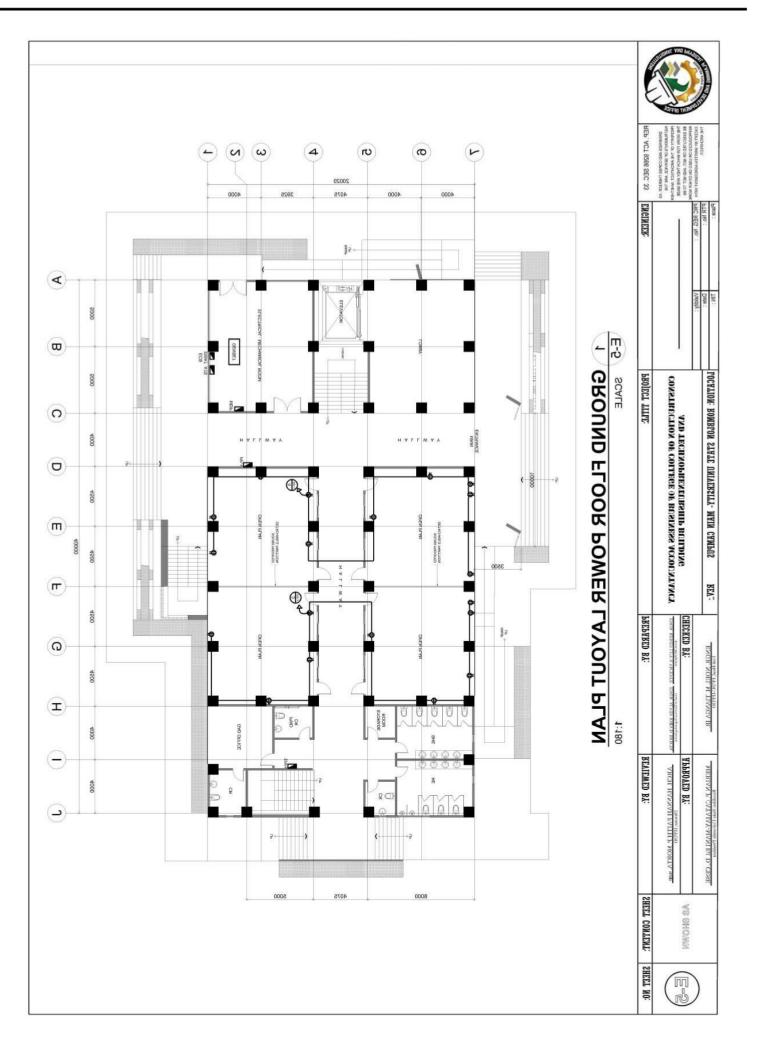






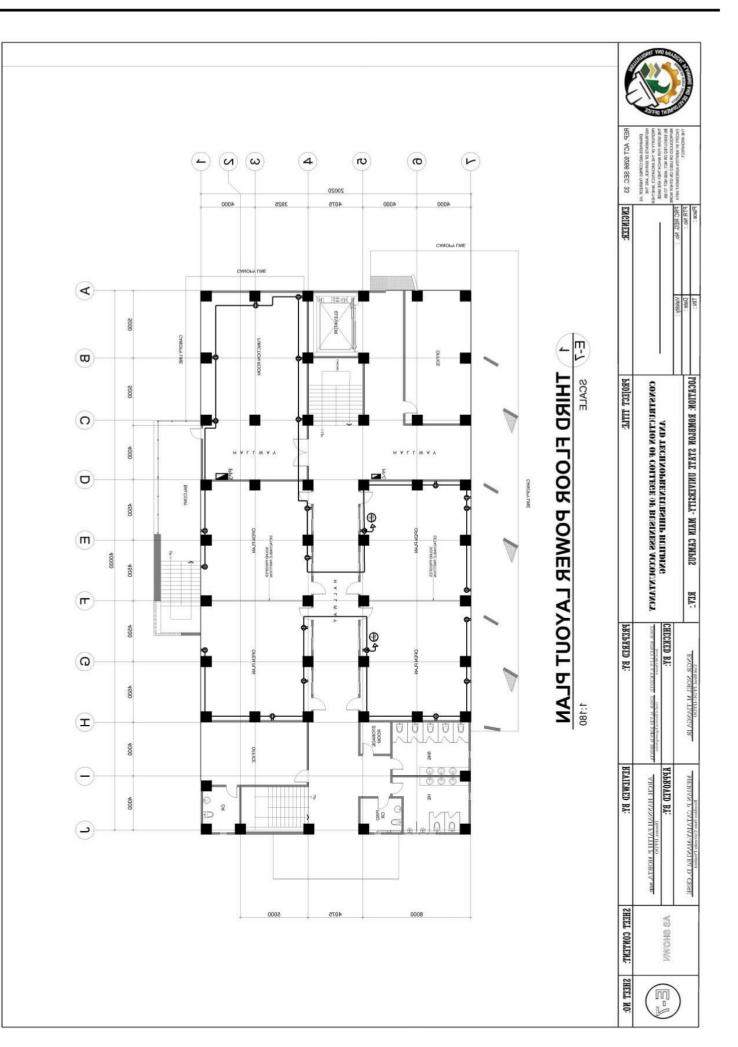






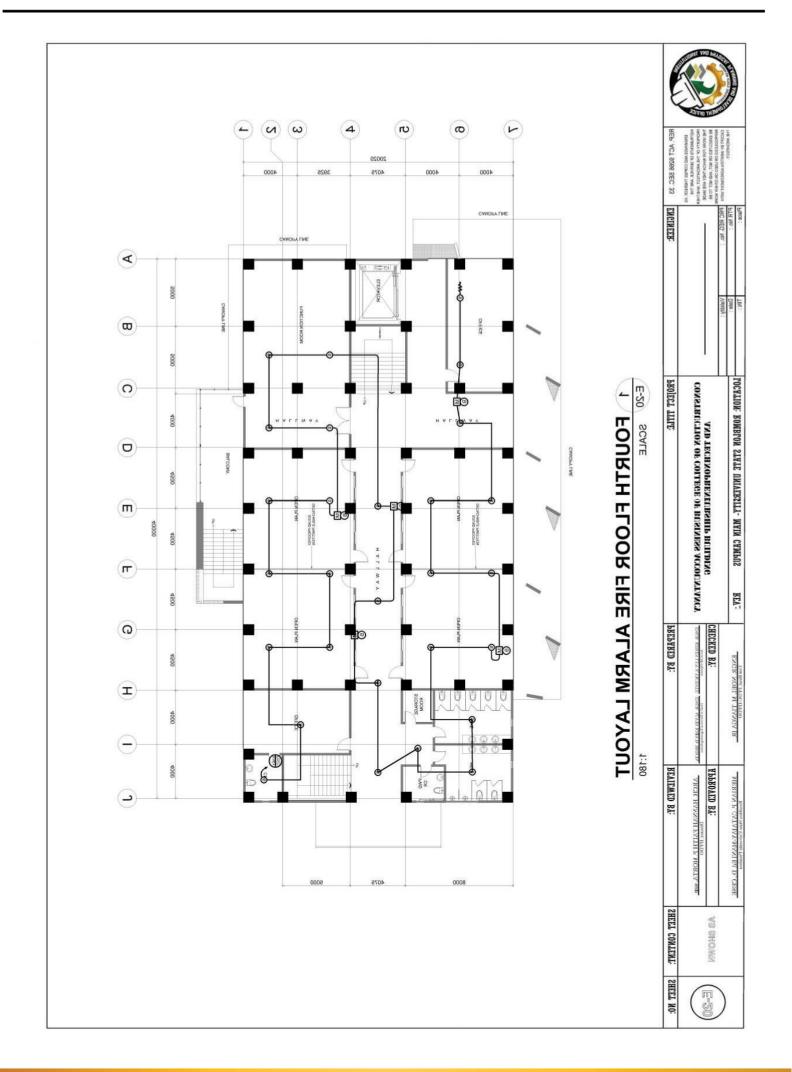






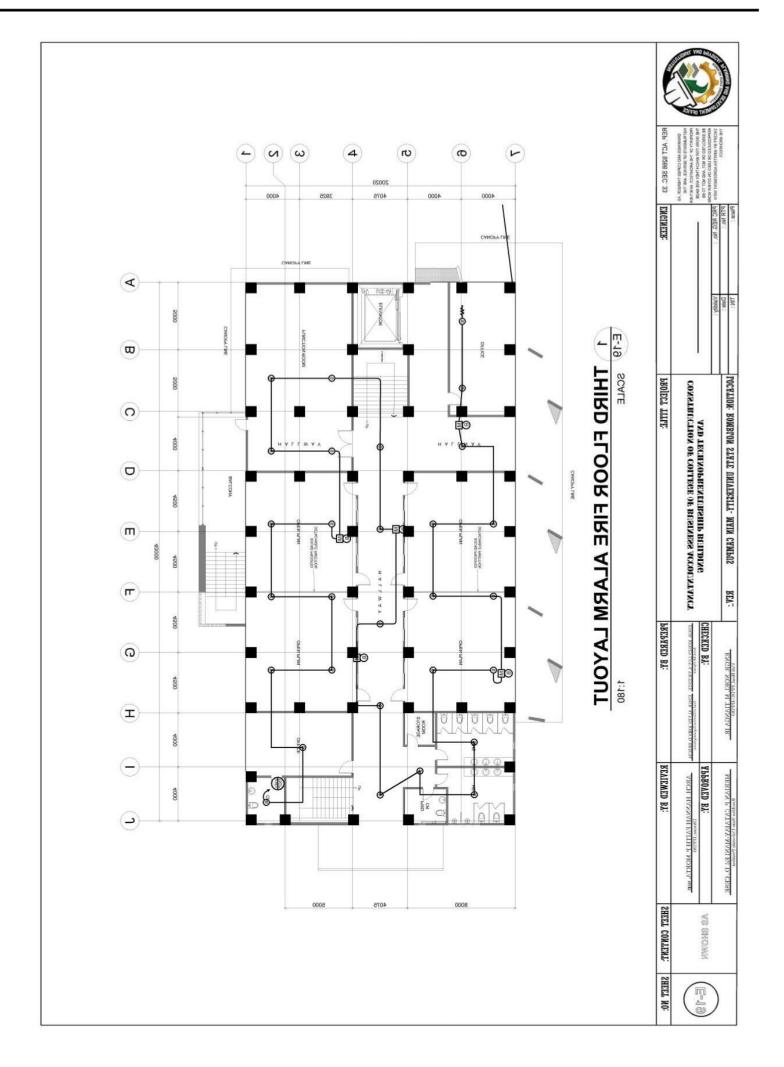






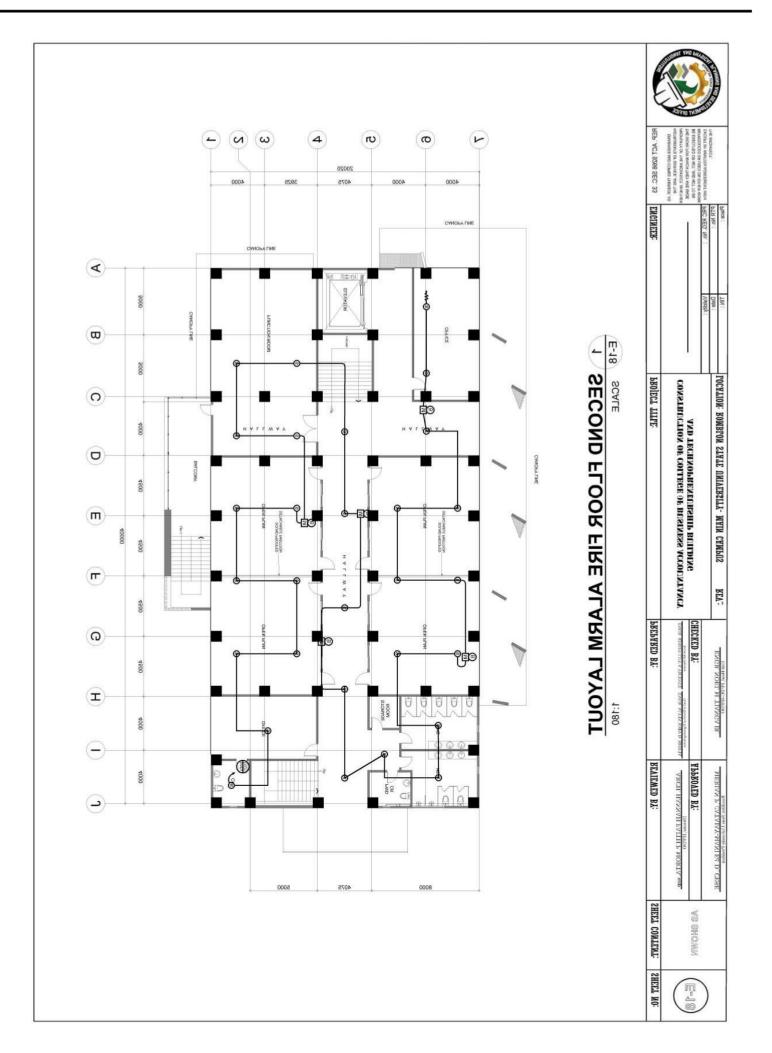






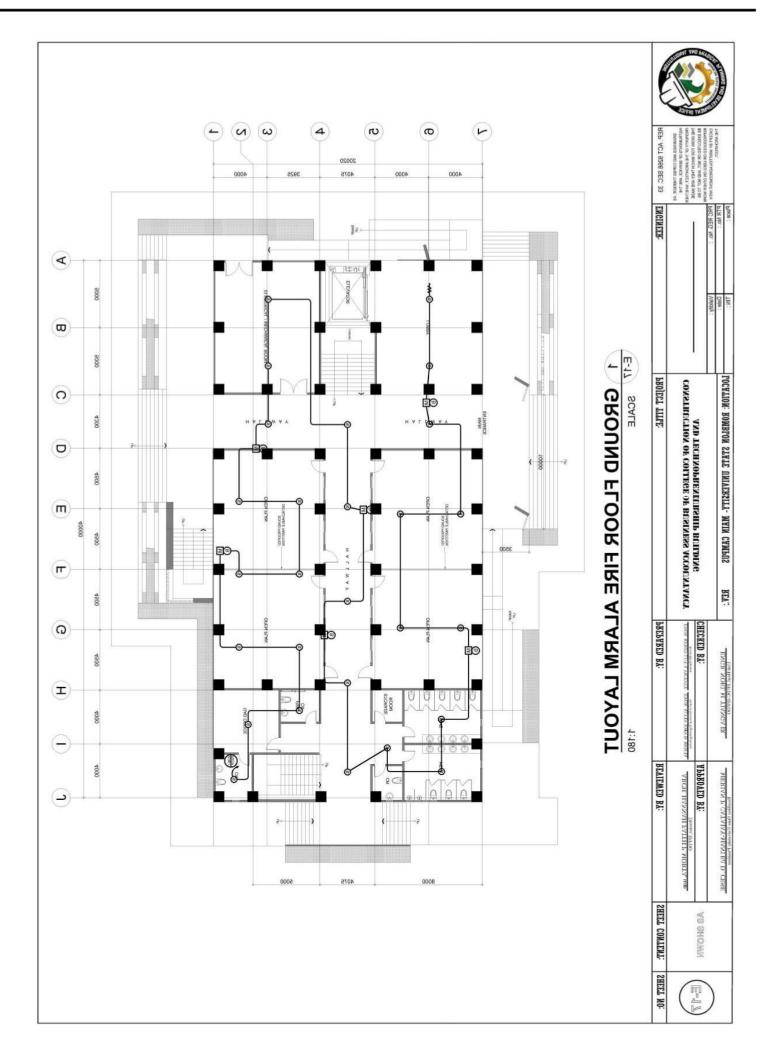






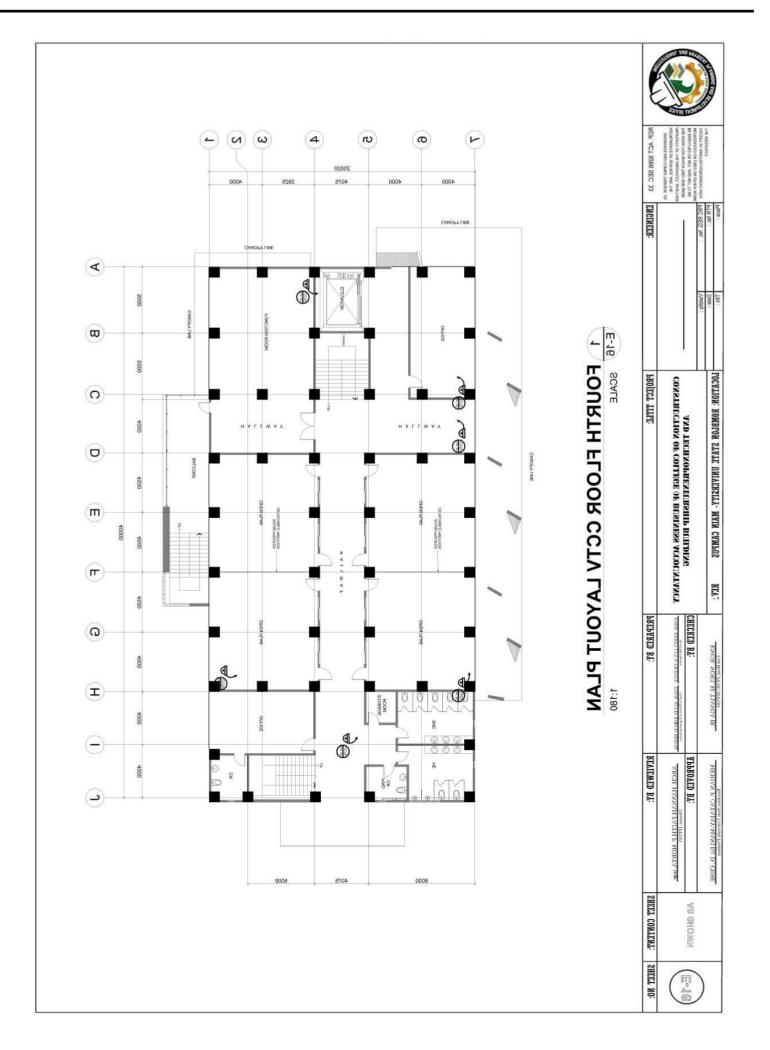






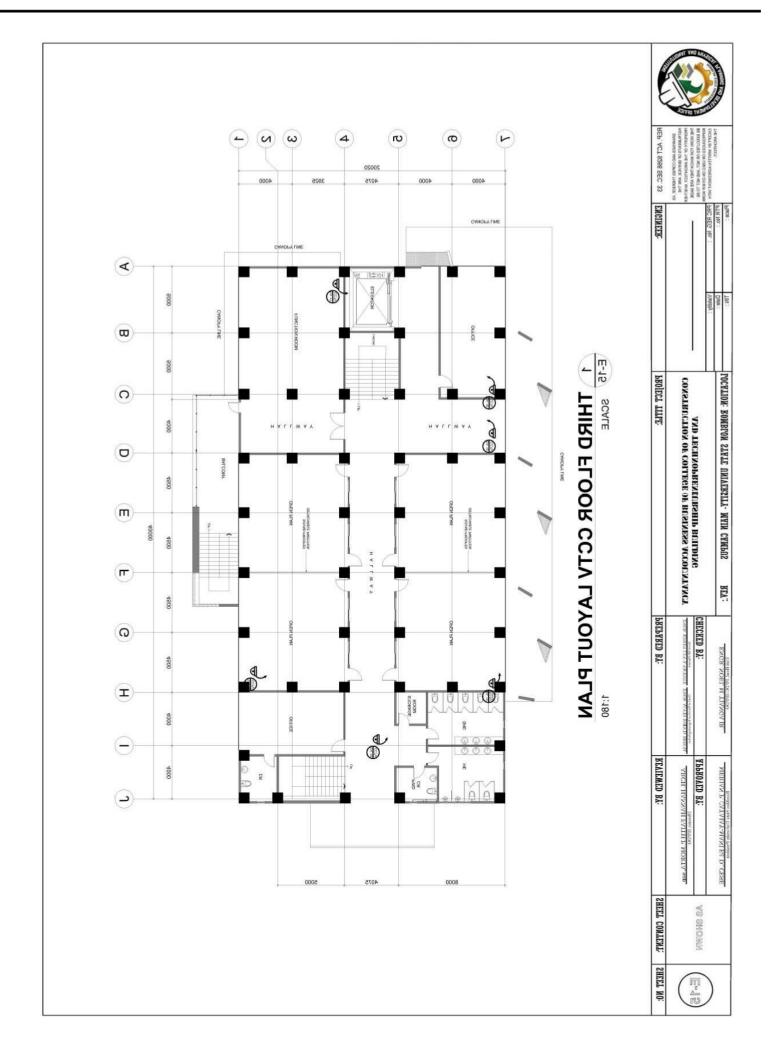






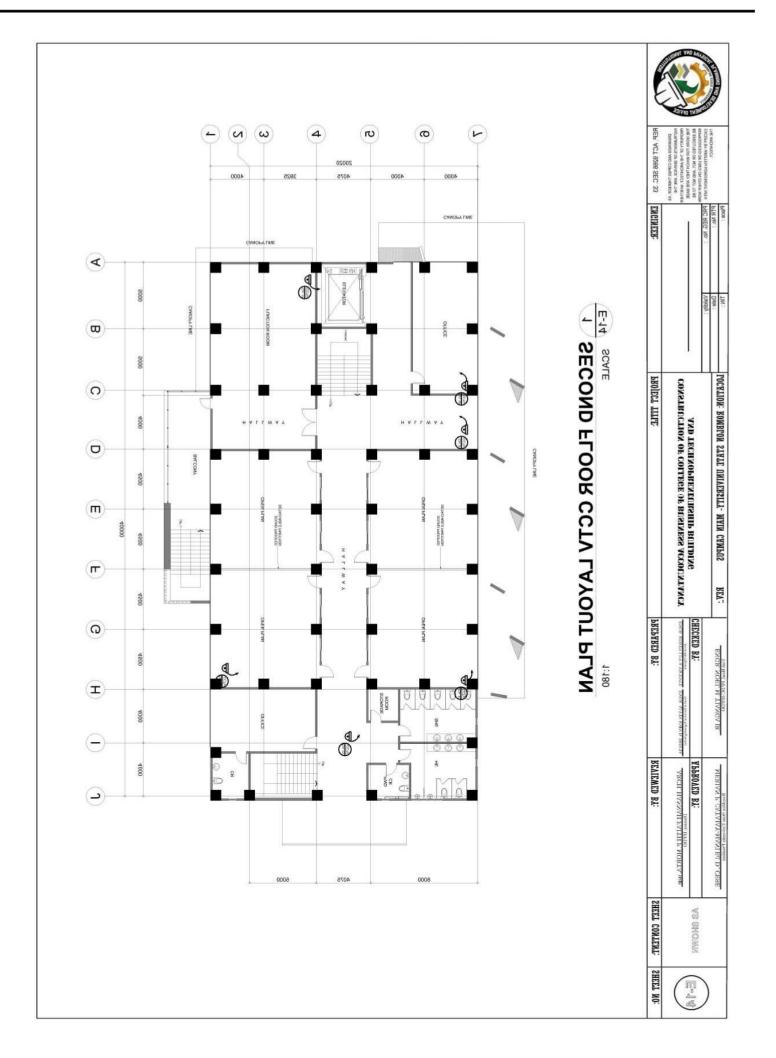






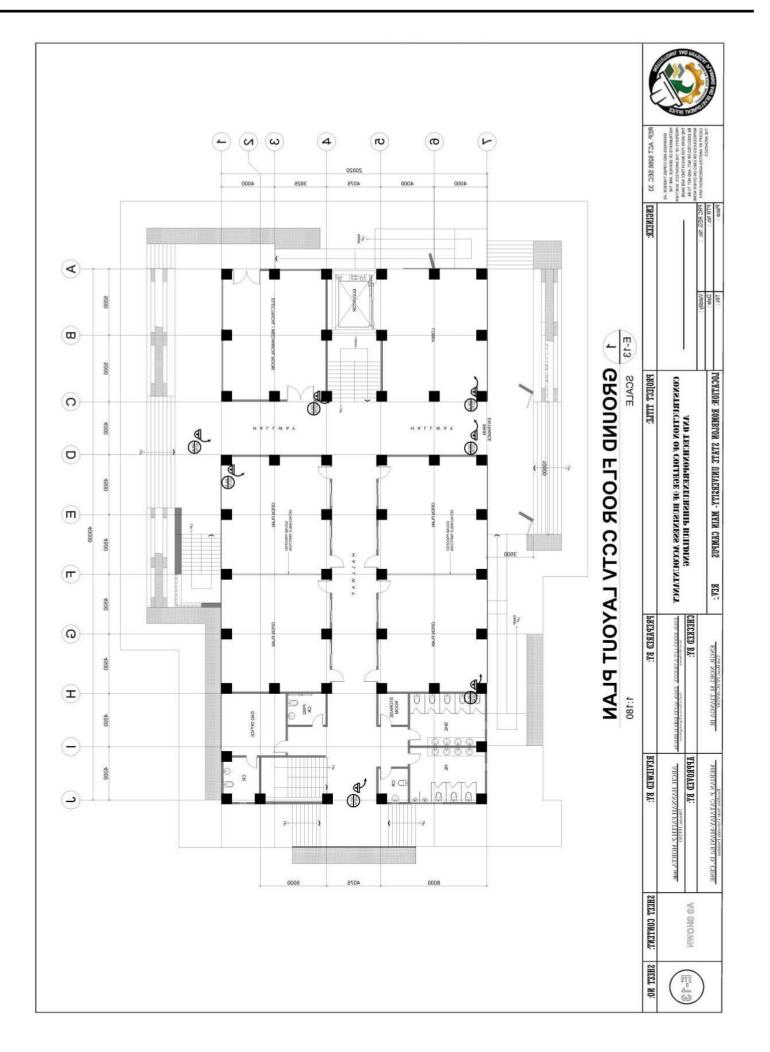






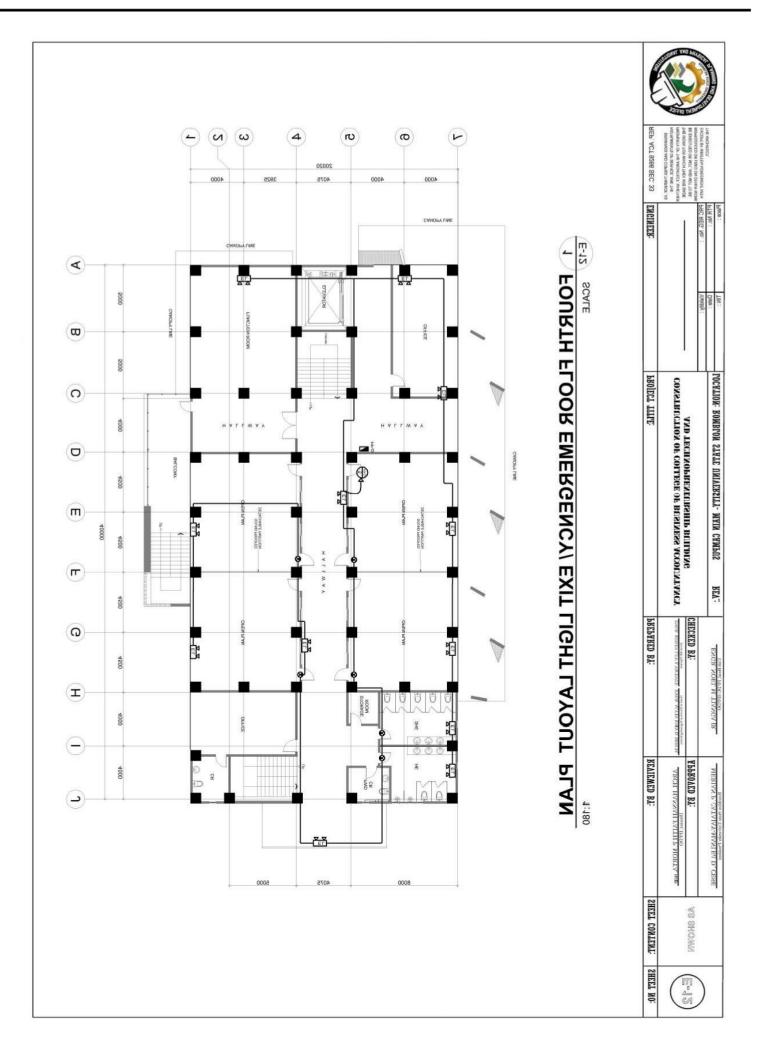






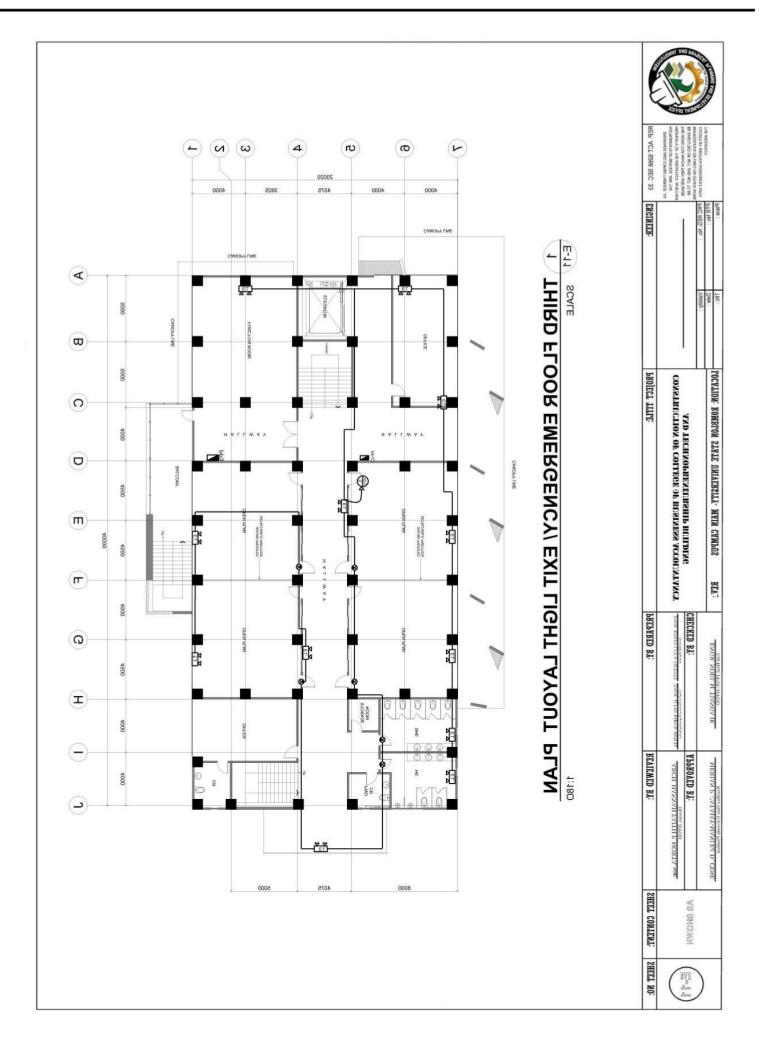






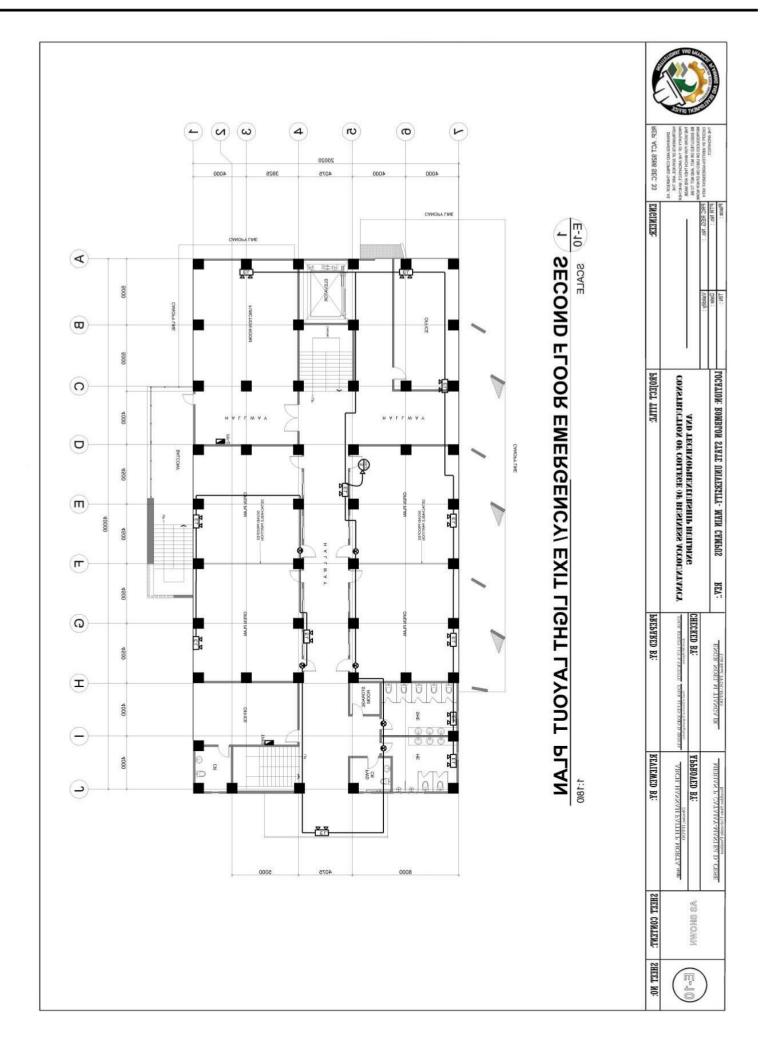






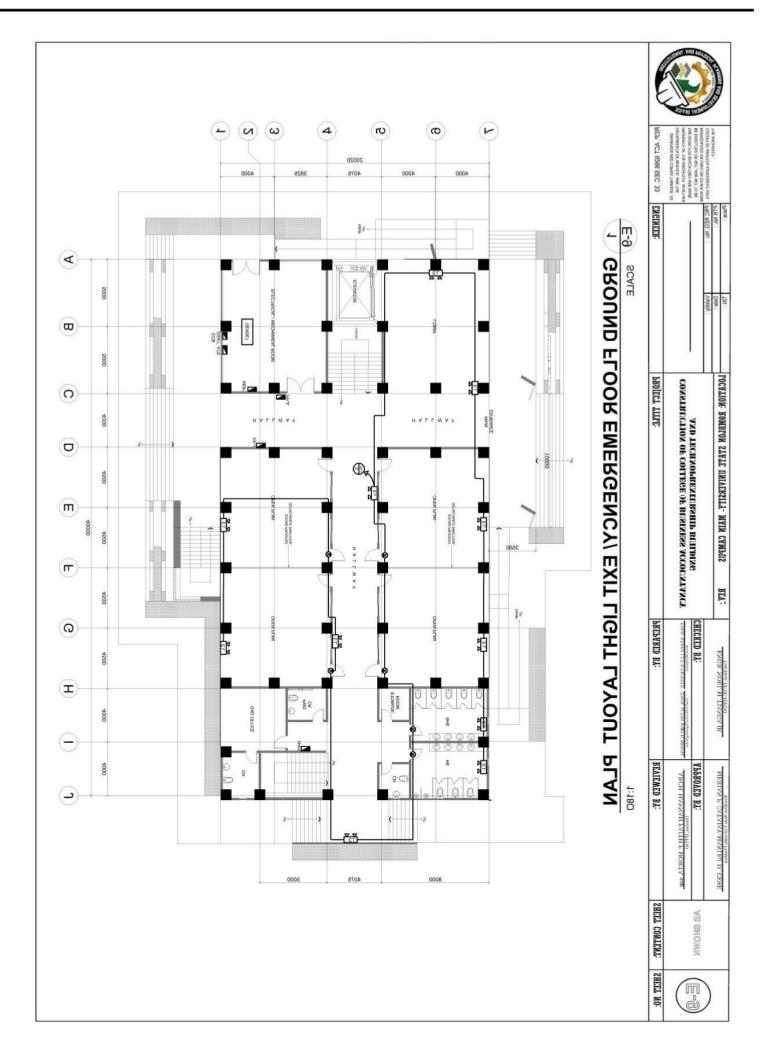






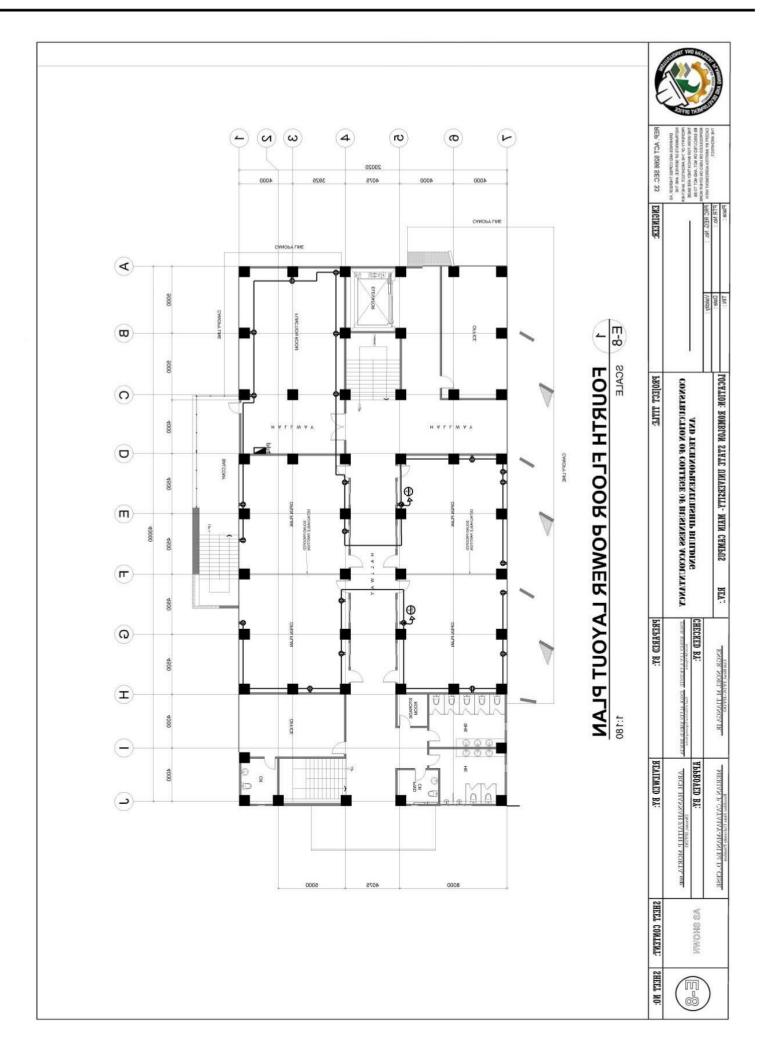


















FOURT: DISKNOMM: CAT FRANKING FUNDER:					Rol	Romblon State University PANEL BOARD SCHEDULE	ate Un RD SCHI	iversity EDULE								
NUCC: TOTALING: TOTALING: TOTALING: TOTALING: TOTALING: TOTALING: </th <th>OJECT :</th> <th>CBAT</th> <th></th> <th></th> <th>Ĩ</th> <th></th> <th>PREPAI</th> <th>RED BY:</th> <th>1</th> <th>AJB NEMA 1</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	OJECT :	CBAT			Ĩ		PREPAI	RED BY:	1	AJB NEMA 1						
Tend Lead Decreption VA OND CK1 PROTICTION CCN00CTON ACCWANT Lead Decreption VA 30 00 11141 202.2 01 1144 202.2 01 1144 202.2 01 1144	STEM: VIC.	400V, 3Ø, 60HZ]]		MOUNT	ING :		PAD MO	UNTED					
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				UAD1			CKT.	PROTECT	ION	0	NDUCTO	a	R.	CEWAY		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Loa	d Description	VA	0	EE-	ØCN	AT	AF	Р	TYPE	SIZE (mm ² x		SIZE (mm Ø)		(m)	REMARKS
			524		+		20	50	-	THHN	2.0 x 2		-	PVC		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			458		2		20	50	-	NHH.I.	2.0 x 2	2.0		PVC		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			1620			7.04	30	50	-	THIHN	3.5 x 2	2.0	-	PVC		
encyclic 35 81 0.24 20 30 1111N 267.2 20 15 PWC Description 0.00 0.00 1188 55.2 20 15 PWC 1 0.00 0.01 1181N 35.72 20 15 PWC 1 0.00 1181N 35.72 20 15 PWC 1 0.01 1013 30 30 1111N 35.72 20 15 PWC 0.01 2331 0.13 0.13 30 30 1111N 35.72 20 15 PWC 0.01 0.13 0.03 0 1111N 35.72 20 15 PWC PWC 0.01 0.11 10.13 30 30 30 1111N 35.72 20 15 PWC PWC 0.01 1111N 35.72 20 15 PWC 111 111 111 111 111			1800			7.82	30	50	- •	THHN	3.5 x 2	2.0		PVC		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		ć	<u>cc</u>		0.24		07	00	-	IHHN	2.U.X.2	2.0	-	PVC		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		se2)	5981	8.1			20	00		NHH I	3.5 × 2	2.0	-	PVC DVC		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		(Tal)	1308	1.0	K 07		00	202		THHN	2500	0.2	-			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		(170	2331		10:0	10,13	30	50		TIIIN	3.5 x 2	2.0	-	DAC 2		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2331			10.13	30	50	-	THHN	3.5 x 2	2.0	-	PVC		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-		2331		10.13		30	50	-	THHN	3.5 x 2	2.0	-	PVC		
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2331			10.13	30	50	-	THHN	3.5 x 2	2.0	-	PVC		
Iarm Control Panel 1000 4.34 30 50 1 THIN 35.8.2 2.0 15 PVC TOTAL 30,233.00 - 43.07 43.04 45.25 50 1 THIN 35.8.2 2.0 15 PVC P			2331		10.13		30	50	-	THHN	3.5 x 2	2.0	-	PVC		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Fire Alarm Cont	rol Panel	1000	4.3			30	50	-	THHN	3.5 x 2	2.0	-	PVC		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Spare		1000		4.34		30	50	-	THHN						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Space	TAL.	30.233.00	+	_			50	-	NIIIT					1	
Image: Description of the sector of the s				-	4	_										
Reder THHN I-22mm ² x 3, + N22mm ² + E3.0mm ² VIA PVC conduit 3.13)+(1.25*10.13) = 48 A Calculation : 3.13)+(1.25*10.13) = 50.53 A U.SE: 100AF Neutral Bus 3.13)+30 = 67.87 A U.SE: 100AF Neutral Bus Image: second se	(09)+(0		= 60 A				Main Bro	eaker		100	AT.		AF.			
13)+(1.25*10.13) = 48 A 1.3)+(1.25*10.13) = 50.53 A 1.3)+30 = 50.53 A 1.3)+30 = 67.87 A 1.3)+30 = 67.87 A 1.3)+30 = 67.87 A 1.3)+10 = 67.87 A 1.3)+30 = 67.87 A 1.4) = 67.87 A 1.5)+1112 = 67.87 A 1.5)+1112 = 67.87 A 1.6)+1	0% DF						Feeder			THHN I	-22 mm ² x	3. + N22m	m ² +E8.0r	nm ² VIA F	VC condi	lit
= 50.53 A = 67.87 A U.S.E: 100AF Neutral Bus EKEPARED BY: REVIEWED BY: SHEERED BY: SHEERED BY: SHEERED BY: SHEERED BY: SHEERED BY: SHEERED BY: SHEERET CONTENT: SHEERED BY:	60*0.8		= 48 A				Calculat	ion								
= 67.87 A U.S.E: 100 AF Neutral Bus 2006 SEC. 33 ENGINER: REPARED BY: REVIEWED BY: SHEET CONTENT: SH SHEET CONTENT: 2006 SEC. 34 ENGINER: PROJECT TITL: ITL: SHEET CONTENT: 2006 SEC. 34 ENGINER: REVIEWED BY: REVIEWED BY: SHEET CONTENT: 2006 SEC. 34 ENGINER: REVIEWED BY: REVIEWED BY: SHEET CONTENT: 2006 SEC. 34 ENGINER: REVIEWED BY: REVIEWED BY: SHEET CONTENT: 2006 SEC. 34 ENGINER: REVIEWED BY: REVIEWED BY: SHEET CONTENT: 2006 SEC. 34 ENGINER: REVIEWED BY: REVIEWED BY: SHEET CONTENT: 2006 SEC. 34 ENGINER: REVIEWED BY: REVIEWED BY: ARCH HANNAH FAITH P. MORTAL up. 2006 SEC. 35 ENGINE: REVIEWED BY: REVIEWED BY: REVIEWED BY: ARCH HANNAH FAITH P. MORTAL up. 2007 SEC. 34 ENGINE: REVIEWED BY: REVIEWED BY: REVIEWED BY: REVIEWED BY:	(48-10.13)+(1.25	5*10.13)	= 50.53A													
ENGINEER: PROJECT TITLE: PROJECT TITLE: REVIEWED BY: REVIEWED BY: SHEET CONTENT: SHEET	(48-10.13)+30		= 67.87 A					100AF Net	ıtral Bus							
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY RG REG No.: 1044 AND TECHNOPRENEURSHIP BUILDING CHECKED BT: ACCOUNTANCY RC REG No.: 1046 TR No.: 1046 CHECKED BT: ACCOUNTANCY RC REG NO.: 1046 CHECKED BT: 1046 CHE	DED ACT 02			PROTFICT TIT					DRFDIRFN	RV.		REVIEWE	N BV.		енгет	
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY RG REG No. 1 Validy: AND TECHNOPRENEURSHIP BUILDING CHECKED BY: A APPROVED BY:				TTT TATANT	4				LINELANED	D1.		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n n1.		onter	Т
RC REG No : Validity:	и полнати	SERVICE, ARE THE SERVICE, ARE THE I.ANDATTECT, MAETHER VICH THEY ARE MADE FOR A DATE AND AND DE REFORM ATTER WORK		CONSTRUC	TION OF COL	LEGE OF BUS PRENEURSH)	P BUILDIN	DUNTANCY G	CHECKED B	N & VICENTE ENG	R. ALVIN TOHN D. BI	AP	HANNAH FAI7 Director, I Director, I	H P. MORTA, u		
TANTHIAN DANNI DANNI ANT ANT ANTAL AT ATAN ATAN ATANTA DAN	EXCEPT BY WRITT	ENAGREEMENT WITH PRC REG. No. :	Validity:	Π								╞			Г	







PROJECT : CBAT DESIGNATION: BUS BAR GUT SVSTEM: 230V, 100, 60Hz MIN. LC.:		Π	PANELB	Kombion State University PANEL BOARD SCHEDULE	EDULE	ty.							
NOIL			PREPARED BY:	ED BY:	Y	AJB							
1 1	BUS BAR GUTTER		ENCLOSURE:	:URE :	Z	NEMA 12							
	, 60Hz		MOUNTING : FEED IN :	ING : IN :	7	VALL M	WALL MOUNTED						
				OUT:								1 5	
	TOAD		CKT. P	CKT. PROTECTION	1	CO	CONDUCTOR	R	H	RACEWAY	~		
Load Description	VA	Α	AT	AF	P T	TYPE	SILE (mm ² x	GND	SIZE (mm Ø)	TYPE	(m)		REMARKS
1 TPP1	12722	55.28	100	100	2 TI	THHN	22 x 2	8.0	25	PVC			
2 TPP2	12926	56.17	100	100		THHN	22 x 2	8.0	25	PVC			
TOTAL	25,648.00	111.45											
k	= 111.45A		Emergene Feeder	Emergency Breaker Feeder	F 	150 A	AT.)mm ² x 2,	<u>150</u> AT. <u>150</u> AF. THHN 60mm ² x 2, +E14.0 VIA PVC	AF. TA PVC	2	من	230	>
If 111.45 x 1.25	= 139.31 A		Calculation	u	••								1
Icb 111.45 x 1.25	= 139.31 A												
Total KVA:	= 25.64 kVA	-	USE: 1	150AF bus terminal	minal								
(a) 80% Transformer Loading Limit:	= 32.05 kVA												
USE: 1-37.5kVA, 7.6kV/23	1-37.5kVA, 7.6kV/230V, 60Hz single phase pole mounted		transformer										





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			Rol	nblon ANEL B	Romblon State University PANEL BOARD SCHEDULE	niver	sity E						
PROJECT :	CBAT			PREPAI	PREPARED BY:	×.	AJB						
DESIGNATION:	TPP2			ENCLOSURE :	SURE:	2	NEMA 12	0					
SYSTEM: MIN_LC -	230V, 1Ø, 60Hz			MOUNTING :	ING :	 ~	PAD MOUNTED	UNTED					
					OUT:								
		LOAD		CKT. P	CKT. PROTECTION	Z	CO	CONDUCTOR	R	A.	RACEWAY		
Load D	Load Description	ΝA	Α	AT	AF	د م	ТҮРЕ	SIZE (mm ² x	GND	SIZE (mm Ø)	TYPE LE	LENGTII (m)	REMARKS
1 Lightings		524	2.28	20	50	2 T	THHN	2.0 x 2	2.0	15	PVC		
2 C.O. x 9		1620	7.04	30	50		THHN	3.5 x 2	2.0	15	PVC		
3 Emergency Lights		60	0.26	20	50	2 T	THHN	2.0 x 2	2.0	15	PVC	_	
4 ACU 1.5hp		1398	6.07	20	50	2 T	THHN	3.5 x 2	2.0	15	PVC		
		2331	10.13	30	50	2 T	THHN	3.5 x 2	2.0	15	PVC	_	
6 ACU 2.5hp (future)		2331	10.13	30	50	2 T	THHN	3.5 x 2	2.0	15	PVC	_	
7 ACU 2.5hp (future)		2331	10.13	30	50	2 T	THHN	3.5 x 2	2.0	15	PVC		
8 ACU 2.5hp (future)		2331	10.13	30	50	2 T	THHN	3.5 x 2	2.0	15	PVC	_	
TO	TOTAL	12,926.00	56.17										
le		= 56.17A		Main Breaker	eaker	1 '	100	AT.	100	AF.	1 P.		230 V
lf 56.17 x 1.25 lcb 56.17 x 1.25 + 2.5*10.13	10.13	= 70.875 A = 96.2 A		reeder Cakulation	ion		77 NHH	I HHN 22mm ² X 2, +E8.0 VIA PVC	+E8.0 V	APVC			
REP. ACT 9266 SEC. 33	33 ENGINEER:	PRO	PROJECT TITLE:				PREPARED BY:	D BY:		REVIEWED BY:	Ϋ́	SHEET	SHEET CONTENT: SHEET NO:
имика на поската на поската Поската на поската на пос	RC REG No		CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	COLLEGE OF	BUSINESS ACO RSHIP BUILDIN	DUNTANC		ENDA REARY LIVE VIEWER ENDA ALLING (DRS D. 2002). Mark Torona Manual M	28, ALVINI OHN D. BRE tei effennet Brennerg benn	AF	ARCH, HANNAH FAITH P. MORTA, uad Datasa, 19700 PROVED BY:		as shown
THE ARCHITECT.	PTR No.	Date : LOCA	LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS	TE UNIVERSIT	Y- MAIN CAMPIIS	DTV .	Τ.	ENGR. NOEL M. TIANGA IR.	TIANGA JR.	MERIAN P	MERIAN P. CATAJAY-MANI Ed. D., CESE	ESE	0







$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	PREPARED BY: AJB ENCLOSURE : NGUNTING : MOUNTING : NGUNTING : FEED IN : NOUNTING : FEED IN : OUT : OUT : OUT : 0.13 30 50 2 10.13 30 50 2 THIN 0.13 30 50 2 THIN 10.13 30 50 2 THIN 2.00 55.28 30 50 2 THIN 2.00 55.28 30 50 2 THIN 2.00 55.28 50 2 THIN Calculation : Calculation : 00	I: CBAT TPPI MEPARED BY: ENCLOSURE: AIB NEMA12 TION: TPPI NEMA12 NEMA12 230V; 10, 00Hz N: NEM NEMA12 And N: NCI NEMA12 And N: NCI NEMA12 And A AT AF P No NA A AT AF P No 1000 2117 20 20 1HHN 20x2 20 15 PVC No 1398 607 20 50 2 1HHN 20x2 20 15 PVC SS 25hp (future) 2331 0.13 30 50 2 1HHN 35x2 2.0 15 PVC SS 25hp (future) 2331 0.13 30 50 2 1HHN 35x2 2.0 15 PVC SS 25hp (future) 2331 0.13 30 50 2 1HHN 35x2 2.0 15 PVC SS 25hp (future) 2331<				Ro	mblon ANEL B(Romblon State University PANEL BOARD SCHEDULE	niversit IEDULE	ý						
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VSTEM: 230V, 100, 60Hz MOUNTING : FEED IN : 0UT :	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		DESIGNATION:	TPP1			ENCLO	SURE :	NEN	MA 12						
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	OUT: LOAD CKT. PROTECTION CONDUCTOR RACEWAY LOAD CKT. PROTECTION SLAL SIZE A AT AF P TYPE SIZE SL17 20 50 2 THHN 2.0.2 2.0 15 PVC 0.26 20 50 2 THHN 2.0.2 2.0 15 PVC 0.13 30 50 2 THHN 3.5.2 2.0 15 PVC 10.13 30 50 2 THHN 3.5.2 2.0 15 PVC 10.13 30 50 2 THHN 3.5.2 2.0 15 PVC 10.13 30 50 2 THN 3.5.2 2.0 15 PVC 10.13 30 50 2 THN 3.5.2 2.0 15 PVC 10.13 30 50 2 THN 3.5.2 2.0 15 PVC 2.00 10.13 30 50 2 THN 3.5.2 2.0 15 PVC 2.00 5 7 7 3.5 2.0 15 PVC <td< th=""><th>OUT: Description $IOAD$ CKT. RATETION $TATETION$ $ACTEWAT$ Description VA A AT AF P $TYPE$ $arateticeWAT$ Description VA A AT AF P $TYPE$ $arateticeWAT$ 11400 5300 20 $111N$ $25x2$ 20 15 PVC 100 11212200 55.28 1013 30 50 $211HN$ $3.5x2$ 2.0 15 PVC 100 12722.00 55.28 1013 $3.5x2$ 2.0 15 PVC P P 12712.00</th><th>SYSTEM: MIN. I.C.:</th><th>230V, 1Ø, 60Hz</th><th></th><th></th><th>MOUNT FEED</th><th>: DNI: IN :</th><th>PAI</th><th>MOUNT (</th><th>ED</th><th></th><th></th><th></th><th></th><th></th></td<>	OUT: Description $IOAD$ CKT . RATETION $TATETION$ $ACTEWAT$ Description VA A AT AF P $TYPE$ $arateticeWAT$ 11400 5300 20 $111N$ $25x2$ 20 15 PVC 100 11212200 55.28 1013 30 50 $211HN$ $3.5x2$ 2.0 15 PVC 100 12722.00 55.28 1013 $3.5x2$ 2.0 15 PVC P P 12712.00	SYSTEM: MIN. I.C.:	230V, 1Ø, 60Hz			MOUNT FEED	: DNI: IN :	PAI	MOUNT (ED					
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	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				LOAL		CKT. P	ROTECTIO	Z	CONDUC	CTOR		RACEWAY			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Load	1 Description	VA	A	AT	AF						(m)	REMARK	S
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					500	2.17	20	50				6				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			1440	6.26	30	50					-			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	3 Emergency Lights	S	60	0.26	20	50					-			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			1398	6.07	20	50	-	_			-			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \frac{2331}{10.13} 10.13 30 50 2 7HHN 3.5 \times 2 2.0 15 PVC 2331 10.13 30 50 2 7HHN 3.5 \times 2 2.0 15 PVC 201 2331 10.13 30 50 2 7HHN 3.5 \times 2 2.0 15 PVC 201 12,722.00 55.28 201 12,722.00 55.28 201 12,722.00 55.28 201 12,722.00 55.28 201 12,722.00 55.28 201 12,722.00 55.28 201 12,722.00 55.28 201 12,722.00 55.28 201 12,722.00 12 PVC 201 12 PVC 201 12 PVC 201 PVC$		re)	2331	10.13	30	50	-				-			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	2331 10.13 30 50 2 THN 3.5 x 2 20 15 PVC 2331 10.13 30 50 2 THN 3.5 x 2 20 15 PVC 2331 10.13 30 50 2 THN 3.5 x 2 20 15 PVC 2331 10.13 30 50 7 10.1 3.5 x 2 20 15 PVC 10.13 = 55.28A Main Breaker : 100 AT. 100 AF. 1 P. 230 = 69.1 A Calculation : = 69.1 A Calculation : 100 AF. 1 P. 230 = 69.1 A Calculation : = 94.43 A S 1 P. 230 = 94.43 A = 94.43 A S		re)	2331	10.13	30	50	-	_			-			
8 ACU 2.5hp (future) 2331 10.13 30 50 2 TOTAL 12,722.00 55.28 30 50 2 = 55.28A Main Breaker : Feeder Feeder :	10.13 30 50 2 THHN 3.5 x 2 2.0 15 PVC 2.00 55.28 3 5 2 THN 3.5 x 2 2.0 15 PVC Main Breaker : 100 AT. 100 AF. 1 Feeder : THHN 22mm² x 2, +E8.0 VIA PVC 1 1 Calculation : : THHN 22mm² x 2, +E8.0 VIA PVC 1	L 2331 10.13 30 50 2 THHN 3.5×2 2.0 15 PVC = 55.28A Main Breaker : 100 AT. 100 AF. 1 P.C = 55.28A Main Breaker : 100 AT. 100 AF. 1 P. 230 = 69.1 A Calculation : THHN 22mm² x 2, +E8.0 VIA PVC 1 P. 230 = 94.43 A = 94.43 A State		re)	2331	10.13	30	50	-				-+			
TOTAL 12,722.00 55.28	2.00 55.28 Main Breaker : 100 AT. 100 AF. 1 Feeder : THHN 22mm ² x 2, +E8.0 VIA PVC Calculation :	= 55.28A $ = 55.28A $ $ = 52.28A $ $ = 50.1 $ $ = 69.1 $ $ = 69.1 $ $ = 69.1 $ $ = 69.1 $ $ = 69.1 $ $ = 94.43 $ $ = 94.43 $ $ = 94.43 $ $ = 94.43 $ $ = 94.43$	ACU 2.5hp (fut	re)	2331	10.13	30	50	+				+			
= 55.28A Main Breaker : Feeder :	Main Breaker:100AT.I00AF.IFeeder::THHN 22mm² x 2, +E8.0 VIA PVCICalculation:	= 55.28A Main Breaker Feeder $= 50.1 A$ $= 69.1 A$ $= 69.1 A$ $= 94.43 A$ $= 94.43 A$ Main Breaker $= 94.43 A$ Main Breaker $= 94.43 A$ $= 94.43 A$		OTAL	12,722.00	55.28						_				
= 55.28A Main Breaker : Feeder :	Main Breaker:100AT.100AF.1Feeder:THHN 22mm² x 2, +E8.0 VIA PVCCalculation:	= 55.28A Main Breaker : 100 AT. 100 AF. 1 P. 230 Feeder : THHN 22mm ² x 2, +E8.0 VIA PVC 1 P. 230 = 69.1 A Calculation : THHN 22mm ² x 2, +E8.0 VIA PVC 1 P. 230 = 94.43 A Calculation : 100 1 1 1 1 1														
	recoer : Calculation :	= 69.1 A Calculation : = 94.43 A Calculation :	lc		= 55.28A		Main Bro	eaker	1	100 AT.	10	0 AF.	-	۲	1	
Calculation		= 94.43 A			= 69.1 A		reeger Calculati	uo	1		X 2, +E&.U	VIALVU				
$55.28 \times 1.25 + 2.5*10.13 = 94.43 \text{ A}$				5*10.13	= 94.43 A											
REP. ACT 2266 SEC. 33 ENGINER: PROJECT TITLE: PROJECT TITLE: PREPARED BY:				is hereon, va a. warthe firet: warthere firet: warthere b. warthore to warthor		NSTRUCTION OF AND TEC	COLLEGE OF HNOPRENEUI	BUSINESS ACC		ENCR. NEREN LUV & VICE A A SAUGUARY	EVTE ENGR. ALVIN IOHN I Xeek (Brever) Beginster	AI	HANNAH FAITH P. M. Direggi, IPPDO BY:		AS SHOWN	E-20
ENGINEER: PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	PREPARED BY: REVIEWED BY: ION OF COLLEGE OF BUSINESS ACCOUNTANCY EXCENTION SERVICE STATE AND ALL FAILTH P. MORTA, under States and services and se	BY PERFORMATION OF COLLECCE OF BUSINESS ACCOUNTANCY THE MEMBE THE MEMBE THE MEMBE ARCH HANNAH FAITH P. MORTA. WD ARCH HANNAH FAITH P. MORTA. MD ARCH HAN	THE ARCHITECT.	PTR No. :	Valuiy . Date :							_)







				Rom	Rombion State University PANEL BOARD SCHEDULE	e Univer	sity							
PROJECT : CBAT DESIGNATION: MDP (SYSTEM: 400V.; MIN. LC.:	CBAT MDP (future) 400V, 30, 60HZ					PREPARED BY: ENCLOSURE : MOUNTING : FEED IN : OUT :	ED BY: URE : NG : IN : OUT :	AJB PAD	AJB NEMA 12 PAD MOUNTED	03				
			LOAD			CKT.1	CKT. PROTECTION	N	CONDUCTOR	CTOR	R	RACEWAY		
Load Description	tion Total (VA)	30	AN	AMPERES V ØRN	QCN	AT	AF	P T	TYPE (mm ² x	x GND	SIZE (mm Ø)	TYPE LE	LENGTH R (m)	REMARKS
1 PP1	30.233.00		43.07	43.03	45.25	100	110	3 TH	THHN 22 x 4	4 8.0	15	PVC		
2 PP2	33,662.00		50.99	47.05	50.56		110	+	+			PVC		
3 PP3	37,424.00	0	58.89	50.8	52.87	100	110					PVC		
5 PP4	38,394.00		58.94	51.28	56.77	100	110	3 TH	-			PVC		
6 Elevator	20,000.00) 28.86				60	60	3 TH	-			PVC	_	
7 Fire Pump (jockey)	1865			8.11		30	30	Ē	-		15	PVC		
8 water pump	2500			10.86		30	30	I TH	THHN 3.5 x 2	2 2.0	15	PVC		
9 Sparc	1500				6.52	30	30	-	THHN					
10 Space		_					30	3 TH	NHH.I.				+	
TOTAL	L 165,578.00	00 28.86	6 211.89	211.13	211.97									
lc 28.86+(211.97) @ 80% DF 240.83*0.8						Main Breaker Feeder Calculation	n :: ::	 =	<u>250</u> AT. IHN 1-125m	m ² x 3, + N12)	250 AT. 250 AF. 3 P. 4 THHN I-125mm ² x 3, + N125mm ² + E22mm ² VIA PVC Conduit	/C Conduit	400 V
II (192.66-58.94)+(1.25*58.94) Icb (192.66-58.94)+100	(.94) = 207.39 A = 233.72 A					USE: 2	S0AF Neutr	250AF Neutral Bus Terminal	inal					
total kVA:	= 165.57 kVA													
@ 80% De mand Factor: @ 80% TR Loading Limit: @ 70% Genset Loading Limit:	= 132.45 kVA = 165.57 kVA = 236.52 kVA	USE:	200kVA, 1 250kVA, 4	3.2kV/400V 3 00V/230V,3 p	200kVA, 13.2kV/400V3 phase with neutral, Pad mounted cabinet type oil immersed transformer 250kVA, 400V/230V,3 phase, 60Hz, Silent Type Diesel Generator	utral, Pad n ilent Type L	ounted cabi	net type oil i ator	mmersed tra	nsformer				
REP. ACT 9266 SEC. 33	ENGINEER:		PROJECT TITLE:				PRE	PREPARED BY:		REVIE	REVIEWED BY:		SHEET CONTENT:	VTENT: SHEET NO:
Devined and correst heaters a memory of the service and memory of the service and memory of the service and memory of the service and the over one of the service and the service and the service and the service and the service and the memory of the service and the service and the service and the service and the service and the service and the service and the service and the provement and the service and the service and the service the service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service	DOP BEC MA		CONSTRUCT	10N OF COLLE VD TECHNOPR	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	SS ACCOUNT UILDING		ENGR. KERENLUV S. VICEN ANGRUS AND STOP	EVOR. KERREN LIVI & VICENTE ENCR. ALVINI 10550 D. REGOLA LAGESTRATION - VICENTE ENCR. ALVINI 10550 D. REGOLA	AP	ARCH. HANNAH FA Direct	ARCH. HANNAH FAITH P. MORTA, vad Duescu, 19900 PROVED BY:	AS SHOWN	I I I I I I I I I I I I I I I I I I I
THE ARCHITECT.	PTD ML Value		_											







				PANEL BOARD SCHEDULE	PANEL BOARD SCHEDULE	D SCHED	, aute								
PROJECT : DESIGNATION: SYSTEM: MIN. LC.:	CBAT PP4 (future) 400V, 3Ø, 60HZ					PREPA ENCLO MOUN FEED	PREPARED BY: ENCLOSURE : MOUNTING : FEED IN : OUT :	AJB NEM PAD	AJB NEMA 12 PAD MOUNTED	NTED					
			LOAD			CKT.	CKT. PROTECTION	NO	COND	CONDUCTOR		RACEWAY	/AY		<u> </u>
Load	Load Description	VA	1	PEI	INDO	AT	AF	P T	TYPE (I	SIZE (mm ² x G	GND (mm	n TYPE	(m)	REMARKS	
Lightings		\$10	00 05 05	0BN	2 N	00	50	1	THIN 2	0 x 0	0 0 C	15 PVC	(m)		
2 Lightings		516	44:4	2.4		20	50	I I I I I				-			
C.O. x 8		1440			6.3		50	1 TI				-			
4 C.O. x 15		2700			11.7		50	I TI				15 PVC			
5 Emergency Lights	S	09	-	0.26		20	20					-			
ACU 2.0np		2901	8.1 0			07	005		THUN 3	2 X C.C	0.7	IS DVC			
ACU 2.0hp		1865	0.1	8.1	-	20	50		+	-		+			
9 ACU 2.0hp		1865			8.1		50	I II		-		+			
10 ACU 1.5hp		1398			6.07		50	1	THHN 3.	3.5 x 2	2.0	15 PVC			
11 ACU 2.5hp		2331		10.13		30	50	I II	THHN 3.	3.5 x 2	2.0	15 PVC			
12 ACU 2.5hp		2331	10.13			30	50	I TI	+			15 PVC			
13 ACU 2.5hp		2331	10.13			30	50	I I		3.5 x 2					
14 ACU 2.5hp		2331		10.13			50	I I	+	_		-+			
15 ACU 2.5hp		2331			10.13		50	II. I		_		-			
16 ACU 2.5hp		2331			10.13		50		-	_		-			
17 ACU 2.5hp		2331		10.13		30	50		-			-			Т
18 ACU 2.5hp		2331	10.13			30	50		THHN 3	5.2 X Z	0.7	IS PVC			
20 ACT12 Shin		1552	C1.01	1013		30	50			_		-			
Spare		1000			4.34		50		-	-		-			
Space							50	-							
F	TOTAL	38,394.00	- 58.94	51.28	56.77					_					
0+(58.94)		= 58.94 A				Main Breaker	reaker		100 A	AT.	100 AF.		3 P.	400V V	1
@ 80% DF						Feeder		F	HHN 1-22	2mm ² x 3,	+ N22m	n ² +F.8.0m	THHN 1-22mm ² x 3, + N22mm ² +E8.0mm ² VIA PVC conduit	conduit	
58.94*0.8		= 47.15 A				Calculation	tion								
(47.15 - 10.13) + (1.25 * 10.13)	1.25*10.13)	= 49.68A						4							
(47.15-10.13)+30	0	= 67.02 A				USE:	100AF Neutral Bus	eutral Bus							
REP. ACT 9266 SEC. 33	ENGINEER:	PF	PROJECT TITLE:				PRI	PREPARED BY:			REVIEWED BY:	BY:		SHEET CONTENT:	SHEET NO:
DRAWINGS AND COPIES THEREOF, AS INSTRUMENTS OF SERVICE, ARE THE RROPENT OF THE ARCHTECT, MHETHER THE WORK FOR WHCH THEY ARE MADE REE EXECUTED OR NOT, AND NOT TO BE REERCOUNCED OR USED ON OTHER WORK.	. AS Inter De Re As		CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	F COLLEGE (JF BUSINES URSHIP BI	SS ACCOUN		ENDE AEREN LUV & VICENTE ENDE ALVEN IDER D. BEECIA Antennis and Alven Identification and Alven Advances and Alven	CENTE ENGR. ALV. Not of Bar	'IN IOHN D. BRECLA	AP	ARCH. HANNAH FAITH P. MORTA, uad Director, IPPDO PROVED BY:	P. MORTA, uap	NNOHS SY	E-24
EPT BY WRITTEN AGREEMENT WIT ARCHITECT	TH PRC REG. No. :	Validity:													







1: Contraction Contraction Mathematical production					•	PANEI	PANEL BOARD SCHEDULE	SCHED	ULE									
Terry Lenery (W. G. Guill) Terry Lenery (W. G. Guill) Terry Lenery (W. G. Guill) Terry Lenery (W. Guill) Terry	ECT :	CBAT						PREPA	RED BY:		AJB							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	SNATION: EM: LC:	PP3 (Inture) 400V, 3Ø, 60HZ						ENCLO MOUN FEED	SUKE : ING : IN : OUT :		PAD M	OUNTEI						
Lad Description VA AMPERES AMPERES AMPERES FAMPERES				T	DAD			CKT.1	PROTECT	NOL	CO	NDUCTO	R		ACEWAY			
me 500 50 0AN 0BN 0CN 20 0A 0BN 0CN 0 <th0< th=""> <th0< th=""></th0<></th0<>	Load	l Description	VA	~	101	RES		AT	AF	Р	TYPE	SIZE (mm ² x	GND	SIZE (mm	-		REMARKS	
me	i abti nom		005	30	0AN	ØBN	ØCN	00	50		THIN	Cruch C	00	-		6		
	Lightings		456		7.1.7	1.98		20	50		NHHI	2.0 x 2		-	PVC	_		
	C.O. x 8		1440			201	6.3		50	-	NHH.I.	3.5 x 2		-	PVC			T
	C.O. x 10		1800				7.8		50	-	THHN	3.5 x 7			PVC			—
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	5 Emergency Light		60			0.2		20	50	1	THHN	2.0 x 2		-	PVC			
Olip 18.65 8.1 1 20 50 1 THIN 3.5x2 20 15 PVC PVC 0.00 18.65 1 8.1 20 50 1 THIN 3.5x2 20 15 PVC PVC PVC 1.90 18.65 1 0.13 0.13 0.03 0 1 THIN 3.5x2 20 15 PVC	ACU 2.0hp		1865		8.1			20	50	-	THIN	3.5 x 2	2.0	-	PVC			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ACU 2.0hp		1865		8.1			20	50	-	THHN	3.5 x 2	2.0	-+-	PVC	_		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.0hp		1865			8.1		20	20	-	THHN	3.5 x 2	2.0	-	PVC			
15h 15h 6.07 20 50 1 111N 3.5x2 20 15 PVC PVC 25h 2331 10.13 30 50 1 111N 3.5x2 20 15 PVC	ACU 2.0hp		1865				8.1		50	-	THHN	3.5 x 2	2.0	-	PVC			
25hp 2331 1013 30 50 1 111N 3.5.2 2 15 PVC Description 25hp 231 1013 1013 30 50 1 114N 3.5.2 20 15 PVC Description 25hp 231 1013 30 50 1 114N 3.5.2 20 15 PVC Description	ACU 1.5hp		1398				6.07		50	-	THHN	3.5 x 2		-	PVC			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.5hp		2331			10.13		30	50		THIN	3.5 x 2		-	PVC			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.5hp		2331		10.13			30	20		NHHI	3.5 x 2		-	PVC			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.5hp		2331		10.13			30	50	-	THHN	3.5 x 2		-	PVC			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.5hp		2331			10.13			50	-	THHN	3.5 x 2	+	-+	PVC			_
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.5hp		2331				10.13		50	-	NHH.I.	3.5 x 2		-+	PVC	_		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.5hp		2331				10.13		20		THHN	3.5 x 2	2.0	-	PVC			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.5hp		2331			10.13		30	50	-	THHN	3.5 x 2		-	PVC	_		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.5hp		2331		10.13			30	50		THHN	3.5 x 2		-	PVC			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ACU 2.5hp		2331		10.13			30	20		NHHI	3.5 x 2	2.0	-	PVC	+		_
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	AUU 2.5mp		1000			10.13	A 2A	30	00		NHHI	2 X C.C	2.0		۰ <u>۸</u> ۲			
TOTAL 37,424.00 - 58.89 50.80 52.87 - - 100 AT. 100 AT. 100 AF. 3 4 80) = 58.89 A Main Breaker : 100 AT. 100 AF. 3 P. 40 $*0.8$ = 47.11 A . Cakulation : .	Share		0001					00	205									
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		OTAL	37,424.00	•	58.89	50.80	52.87		2	-								
= 58.89 A = 58.89 A Main Breaker : 100 AT. 100 AF. 3 P. 40 = 47.11 A = 47.11 A Eecder : TIIIIN 1-22mm ³ x 3, + N22mm ³ + F8.0mm ³ VIA PVC c = 47.11 A Calculation : = 47.11 A Calculation : = 49.64A USE: = 49.64A = 49.64A = 66.98 A <td></td>																		
*0.8 Feeder : TIIIN I-22mm ³ x 3, + N22mm ³ + F8.0mm ³ VIA PVC c 1-10.13)+(1.25*10.13) = 49.64A 1-10.13)+(1.25*10.13) = 49.64A 1-10.13)+30 = 66.98 A USE: 100AF Neutral Bus 7.67 9266 SEC 33 ENGINER: PROFECTION OF COLLEGE OF BUSINESS ACCOUNTANCY Monto accounter water and a construction of COLLEGE OF BUSINESS ACCOUNTANCY Construction accounter and a construction of COLLEGE OF BUSINESS ACCOUNTANCY PREPARED BY: REVIEWED BY: ACCH HANNAH FAITH P. MORTA. un- Construction accounter and a construction accounter accounter and a construction accounter accounte	0+(58.89)		= 58.89 A					Main Bı	reaker	••	100	AT.	100	AF.	3 P.	4001	>	
= 47.11 A Calculation : = 49.64A = 49.64A = 49.64A USE: 100AF Neutral Bus E PR0FECT TTLE: 100AF Neutral Bus R: PR0FECT TTLE: PREFARED BY:	% DF							Feeder			TIIIN	-22mm ²	x 3, + N2	2mm ² +	E8.0mm ² VIA	PVC cont	leit	
= 49.64A = 66.98 A E PROJECT TITL: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY	58.89*0.8		= 47.11 A					Calculat	tion									
ENGINEER: PROJECT TITLE: PROJECT TITLE: REVIEWED BY: REVI	(47.11-10.13)+(1 (47.11-10.13)+30	1.25*10.13) 0	= 49.64A = 66.98 A					USE:	100AF N	leutral B	su							
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING TECRED BY: The field by: The	REP_ACT 9266 SEC 2			PROTECT	-the second					PREPAREN	RY		BE	VIEWED BY		нь	CHFFT CONTENT.	CHEFT NO-
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING REGRED Mo.: [Valdy:] ARCH. HANNAH FAITH P. MORTA. WE AND TECHNOPRENEURSHIP BUILDING CHECKED BY: [APPROVED BY:] ARCH. HANNAH FAITH P. MORTA. WE RECKED BY: [AppROVED BY:] ARCH. HANNAH FAITH P. MORTA. WE	1/FL - 1/01 9200 0F 0:			TATIANT						מיזעד דידעד ד	.10		1	10 01 01		2110	TINTENT.	OILEE I
PRC REG. No. :	DAMINGS AND COPIES THEIR INSTRUMENTS OF SERVICE, ARE REQUERTS OF SERVICE, ARE REQUERT OF THE AREALITECT, IN THE WORK FOR WHICH THEY ARE BEENCUTED OF INCT AND NOT BEENCUTED OF INCT AND NOT BEENCUTED OF INCT AND NOT	REOF.AS FILE MINETRER EMADE FILADE FRANCIE		CONST	RUCTION O AND TEC	F COLLEGE HNOPREN	OF BUSINI EURSHIP I	ESS ACCOU BUILDING	NTANCY	CHECKED	BY:	NGR. ALVIN IOHN Keel of Levies Defense	AP	PROVED BY	VAH FAITH P. MOR Direter, IPPDO	uap	as shown	E-23
The Montect. PTR No.: Date:	EXCEPT BY WRITTEN AGREEMEN THE ARCHITECT.	AT WITH PRC REG. No. : PTR No. :	Validity:										╞)



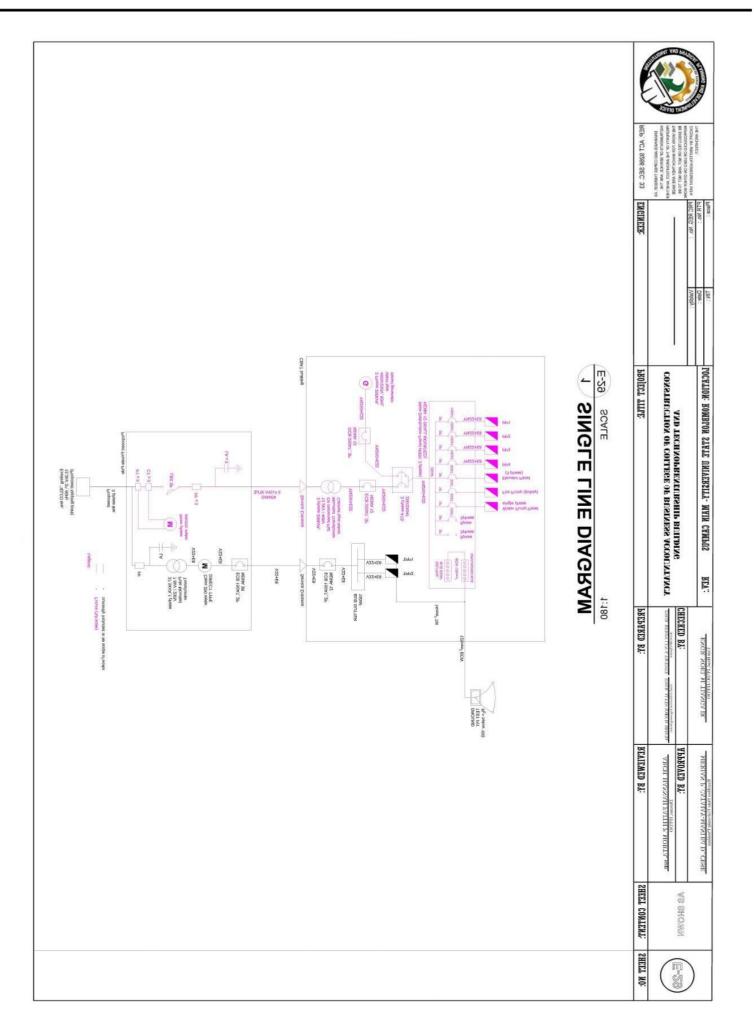




					PANEL	KOMDION STATE UNIVERSITY PANEL BOARD SCHEDULE	CIIEDUL	SILY E								
PROJECT : DESIGNATION:	CBAT						PREPARED BY: ENCLOSUDE ·	CED BY:	AJB	B					T	
DESIGNATION: SYSTEM: MIN. LC.:	F12 (1010) 400V, 3Ø, 60HZ						ENCLOSURE MOUNTING : FEED IN : OUT	NIG: IN: OUT:		PAD MOUNTED	TED					
				UV0/1			CKT. PI	CKT. PROTECTION	N	COND	CONDUCTOR	<u> </u>	RACEWAY	WAY	5	
Load	Load Description	VA V		AMPE	R		AT	AF	L d	TYPE (m	SIZE GR	GND SI	SIZE TYPE	LI		REMARKS
			30	0AN	ØBN	ØCN	E C		-	-	_		-	(III)		
1 Lightings		000 156		2.17	1 08		20	50		THHN 2.0	2.0 X 2	2.0	IS PVC			
2 Lignings 3 C.O. x 8		1440			1.70	6.3	30	50	- H	+	3.5 x 2	2.0	-			
4 C.O. x 7		1260				7.8	30	50	H.I. I		3.5 x 2	2.0	-			
5 C.O. x 8		1440			6.3		30	50	1 TH	THHN 3.5	3.5 x 2	2.0	15 PVC			
5 Emergency Lights	S	60		0.2			20	50	1 TH	THHN 2.0	2.0 x 2	2.0	15 PVC	7.5		
6 ACU 2.0hp		1865		8.1			20	50	I TH		3.5 x 2	2.0	_	7.)		
7 ACU 2.0hp		1865			8.1		20	50	I I		3.5 x 2	2.0	-			
8 ACU 2.0hp		1865				8.1	20	50	-		3.5 x 2	2.0	-		_	
9 ACU 2.0hp		1865			10000	8.1	20	50	1 TH		3.5 x 2	2.0	-		-	
10 ACU 1.5hp		1398			6.07		20	50	I TH	+	3.5 x 2	2.0	-			
11 ACU 2.5hp		2331		10.13			30	50		+	3.5 x 2	2.0	+			
12 ACU 2.5hp		2331		10.13	10.12		30	50	1 TH	+	3.5 x 2	2.0	-			
13 AUU 2.3Mp		1000			10.15	C	00	00		+	2X C.C	0.7	+			
14 AUU 2.5hp		2331				10.15	30	00		C.C NHHI	2 X C.C	0.7				
15 ACU 22lip		2331			10.13	10.17	30	50	I TH	+	35 × 2	0.7	-			
17 ACU 2.5hp		2331		10.13	CT-01		30	50	I TH	+	3.5 x 2	2.0	+			
18 ACU 2.5hp		2331		10.13			30	50	I TH		3.5 x 2	2.0	-			
19 Spare		1000			4.34		30	50	I TH	-	3.5 x 2	2.0				
20 Space								50	-	_		_				
H	TOTAL	33,662.00	T	50.99	47.05	50.56				-						
0+(60)		= 60 A					Main Breaker	aker		100 AT.		100 AF.		3 P.	400V	V
@ 80% DF							Feeder		1 1	HN 1-221	nm ² x 3, +	N22mm ²	+E8.0mm ²	THHN 1-22mm ² x 3, + N22mm ² +E8.0mm ² VIA PVC conduit	onduit	1 1
60*0.8		= 48 A					Calculation	uo								
(48-10.13)+(1.25*10.13) (48-10.13)+30	5*10.13)	= 50.53A = 67.87 A					USE:	100AF Neutral Bus	utral Bus							
	TUCINED.			DDATFOR WITT P.				un nu	Dra by.		1ª	DEVIENT DV.				
KEP. AL	1			KUJEUT TITLE:				PKEP	PKEPAKED BT:		귚	VIEWED BT:		SHL	SHEET CONTENT:	SHEET NO:
	Devinous sub Others Therefor, iss Instimuteritys of service, lete The Represent of the Automice, number The works took wheat the Yare wate Bet Sectorized wates of other works			CONSTRUCTION AND T	V OF COLLEGE OF BUSINESS ACCOUNTANCY FECHNOPRENEURSHIP BUILDING	OF BUSINESS EURSHIP BUI	ACCOUNTA LDING		ENGR. REREVIEW S. VICE ANGROUPS	ENOR ABBRULTY A VICENTE ENOR ALTINI (ORS D. BRECH, ANELIO (1999) MARCHED BY:	AP	APPROVED BY:	ARCH, HANNAH FAITH P. MORTA, 132 Drease, IPPDO PROVED BY:		NWOHS SA	E-22
EXCEPTION THE ARCHIT	Y WRITTENAGREENENT WITH PRC REG. No. : ITECT	Validity :)





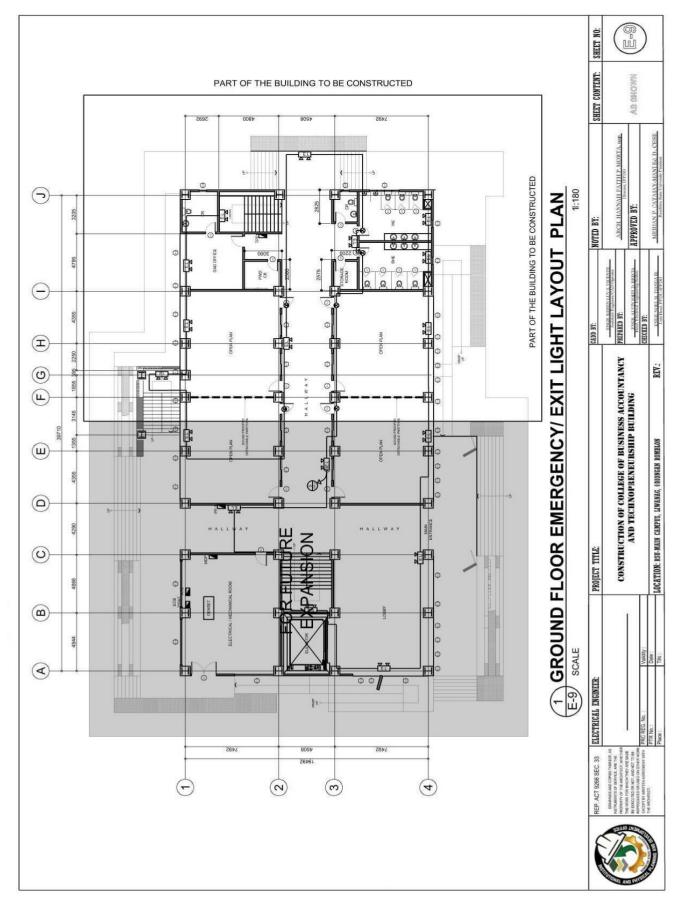




BIDS AND AWARDS COMMITTEE Community Outreach Center, RSU-Main Campus, Liwanag, Odiongan, Romblon 5505 Telephone: (042) 567-5952 Email: bac@rsu.edu.ph Website: rsu.edu.ph

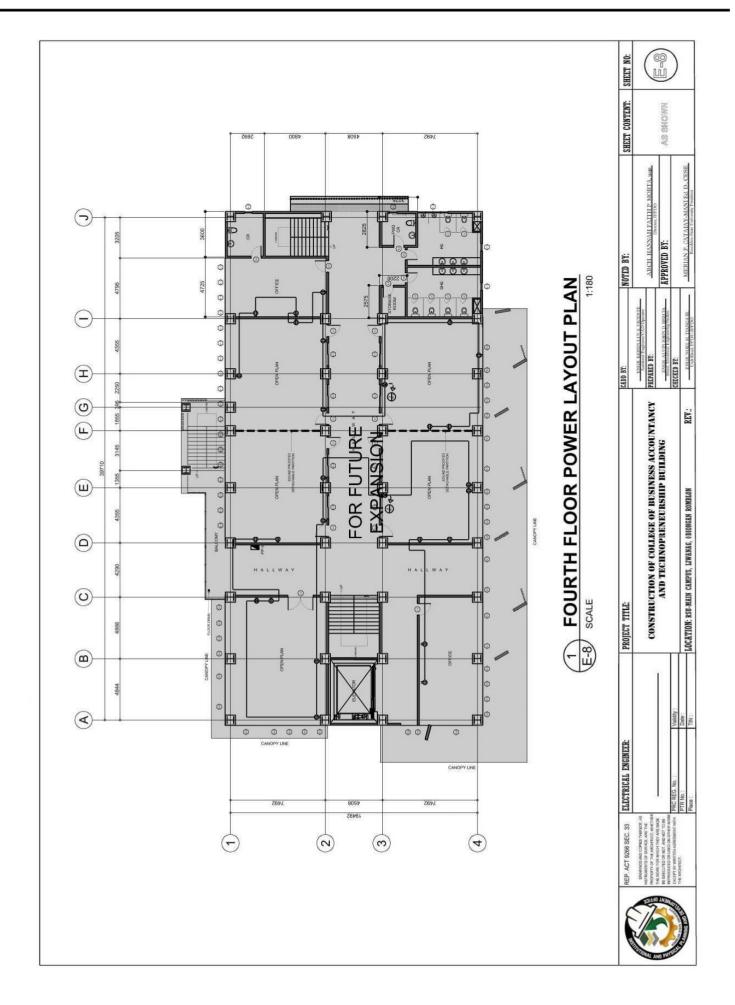


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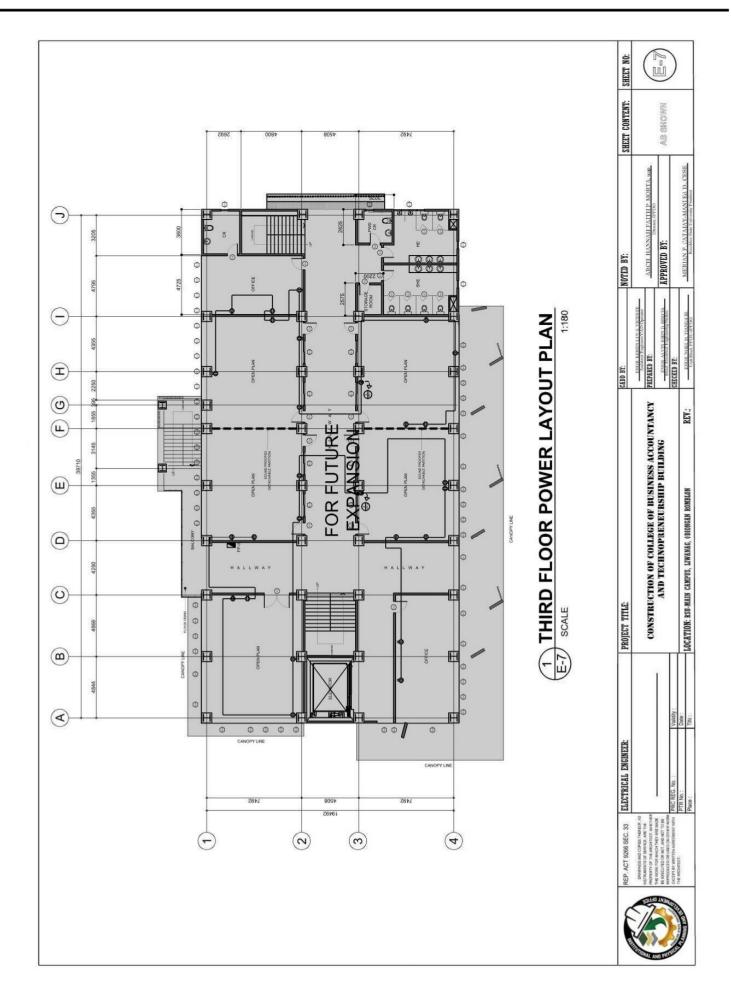






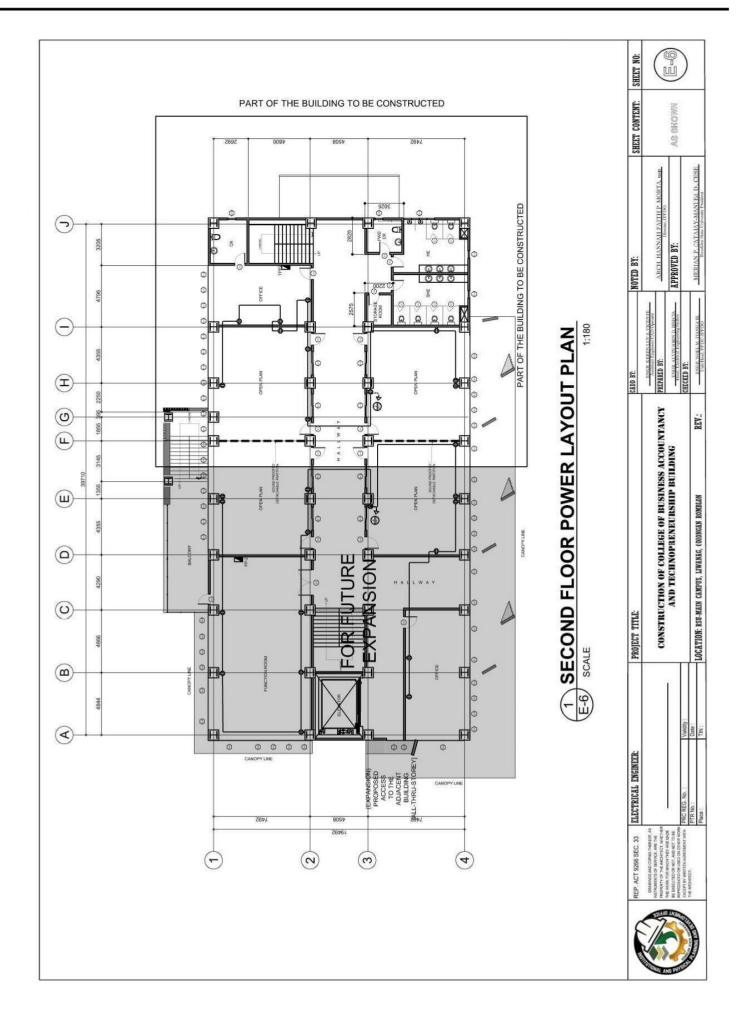






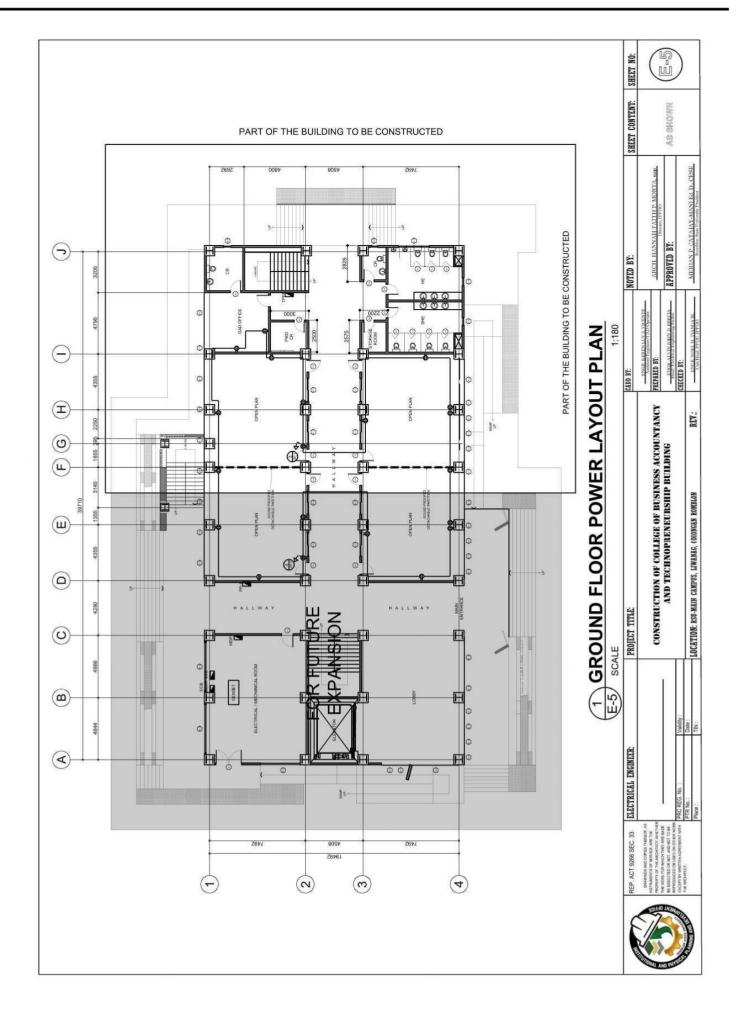






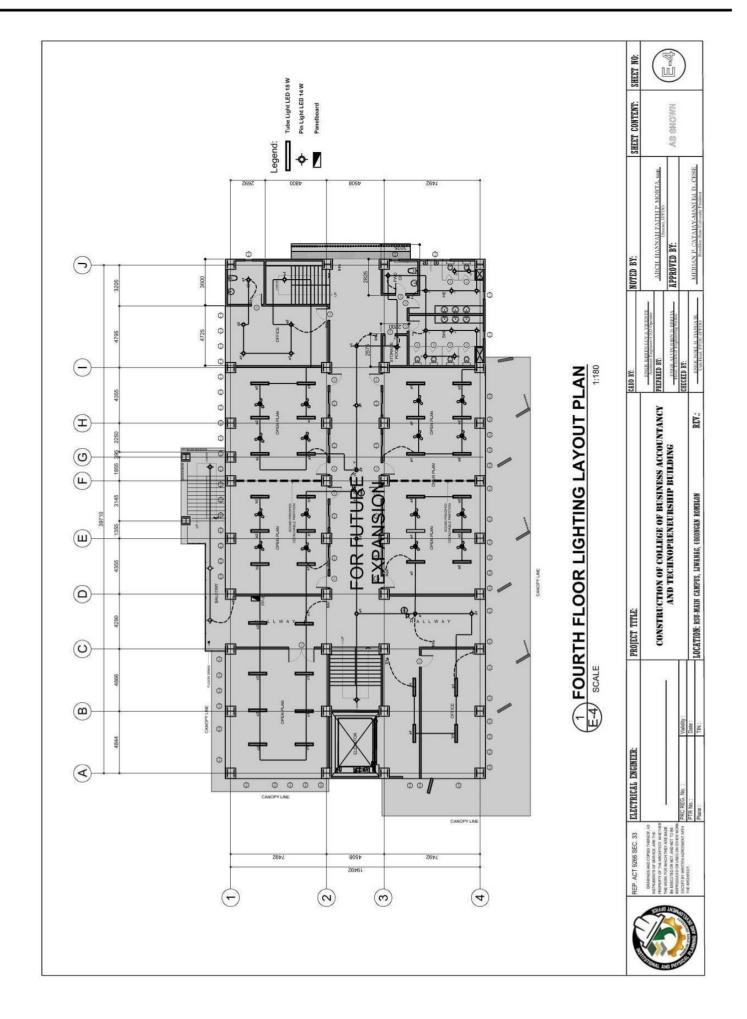






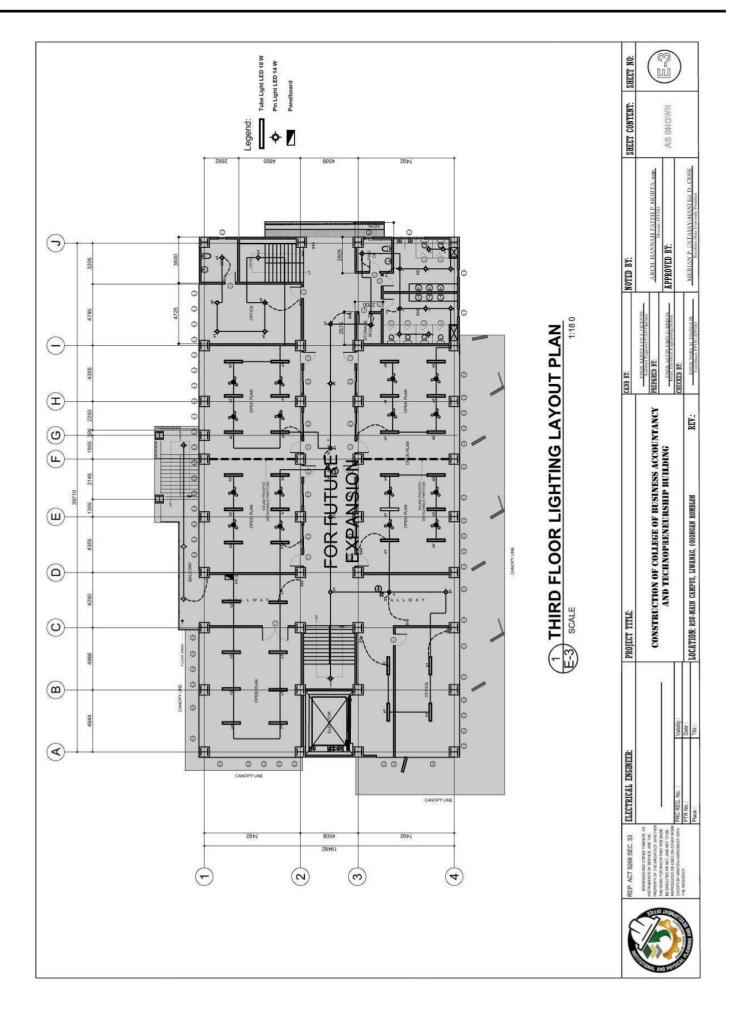








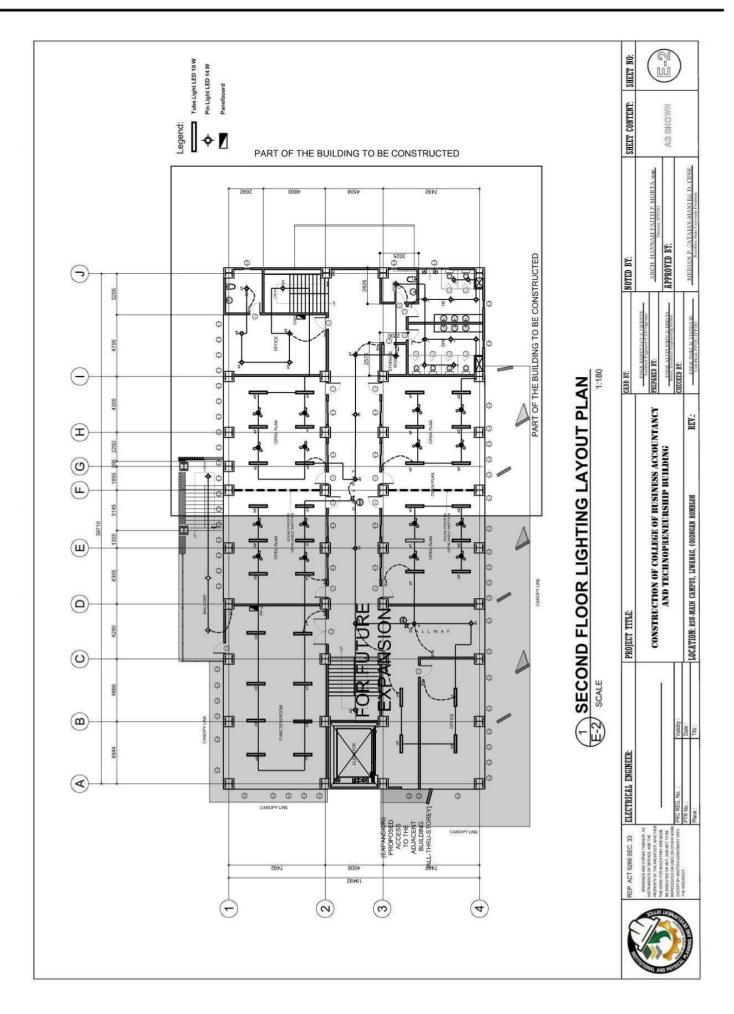






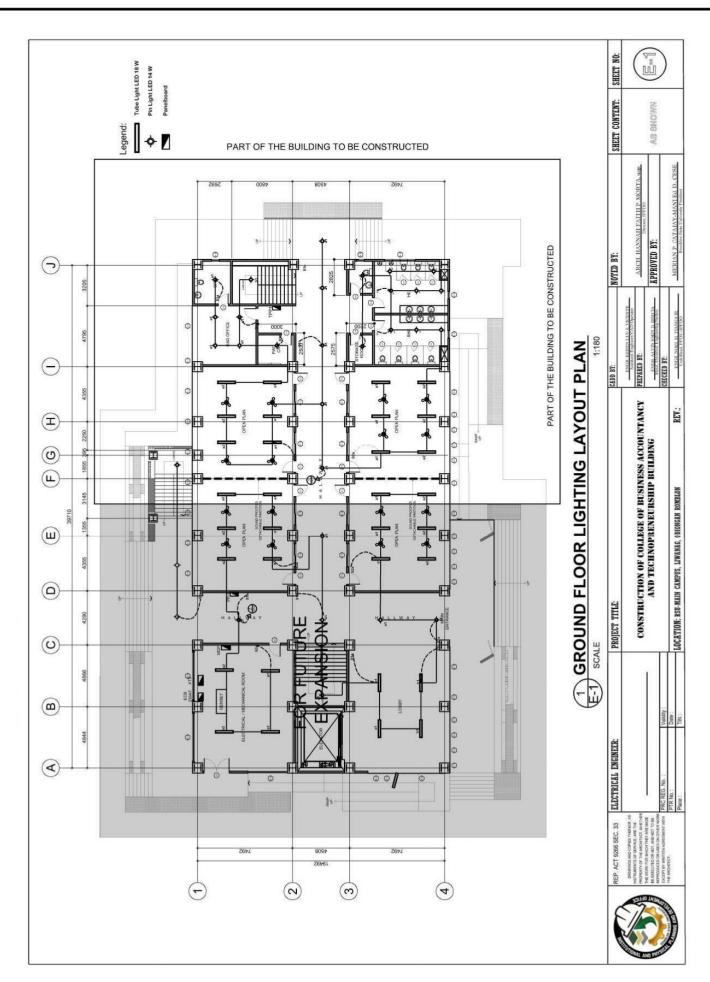






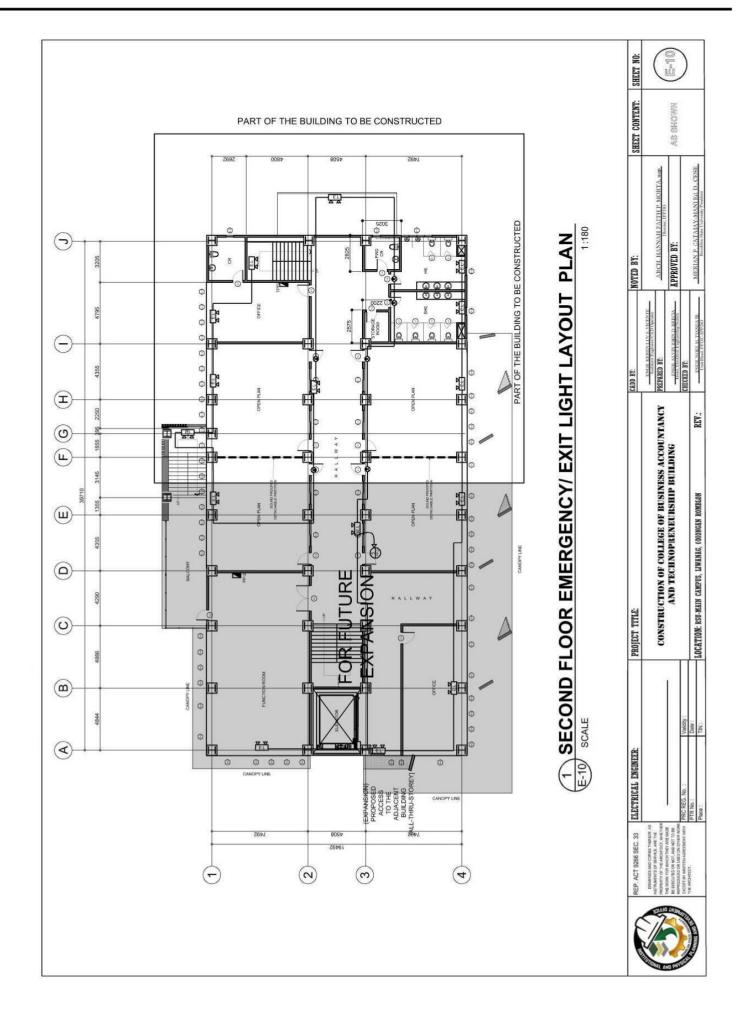








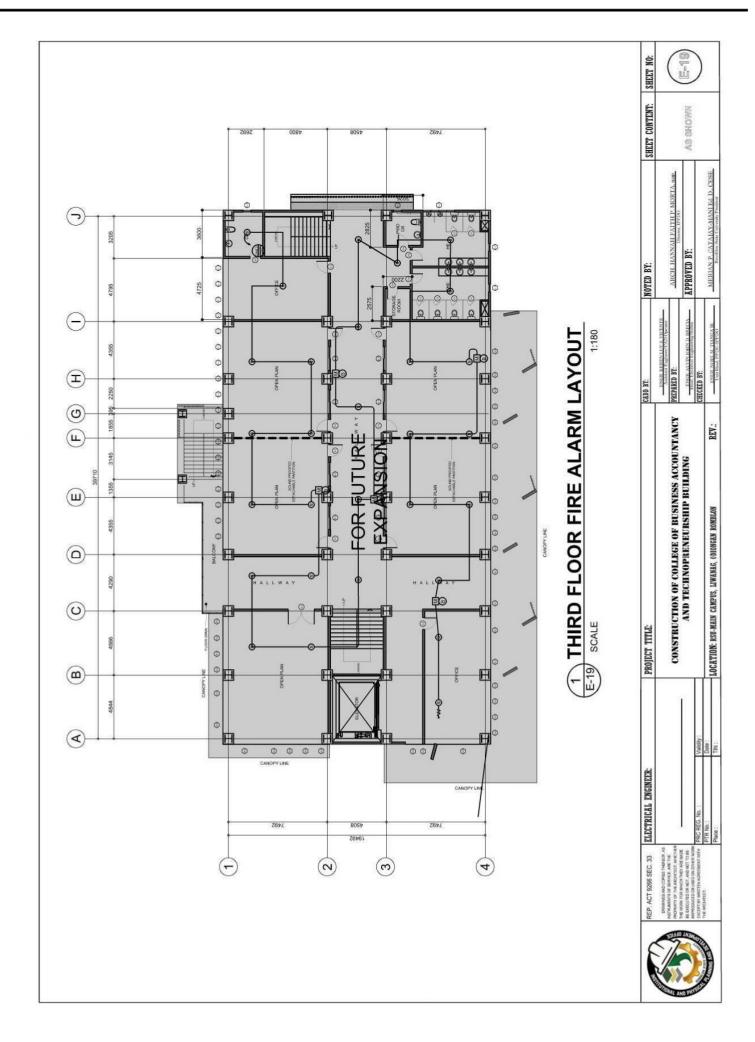












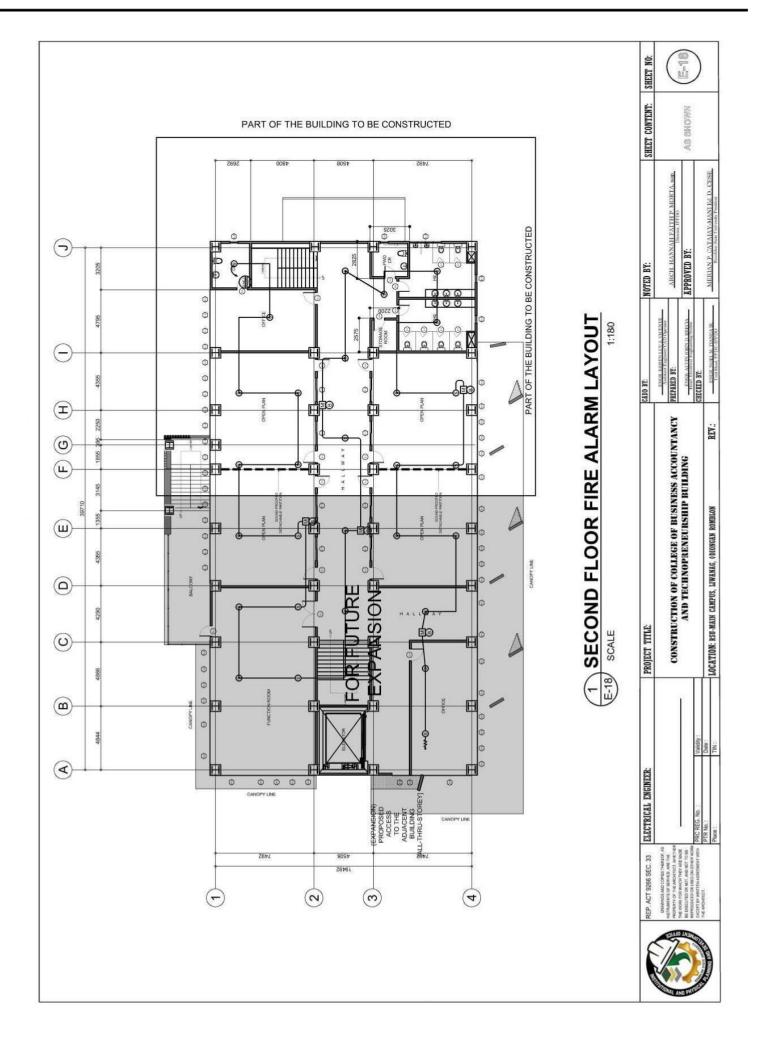


ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE Community Outreach Center, RSU-Main Campus, Liwanag, Odiongan, Romblon 5505 Telephone: (042) 567-5952

Email: bac@rsu.edu.ph Website: rsu.edu.ph
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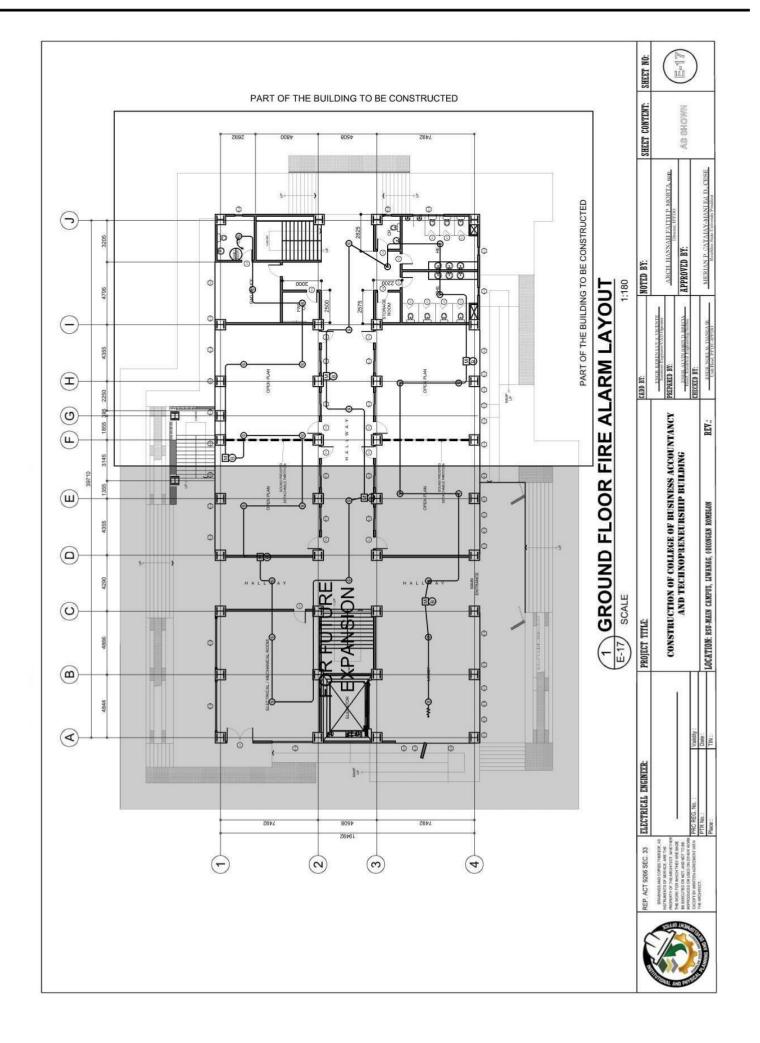
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 ISO 90001:8003



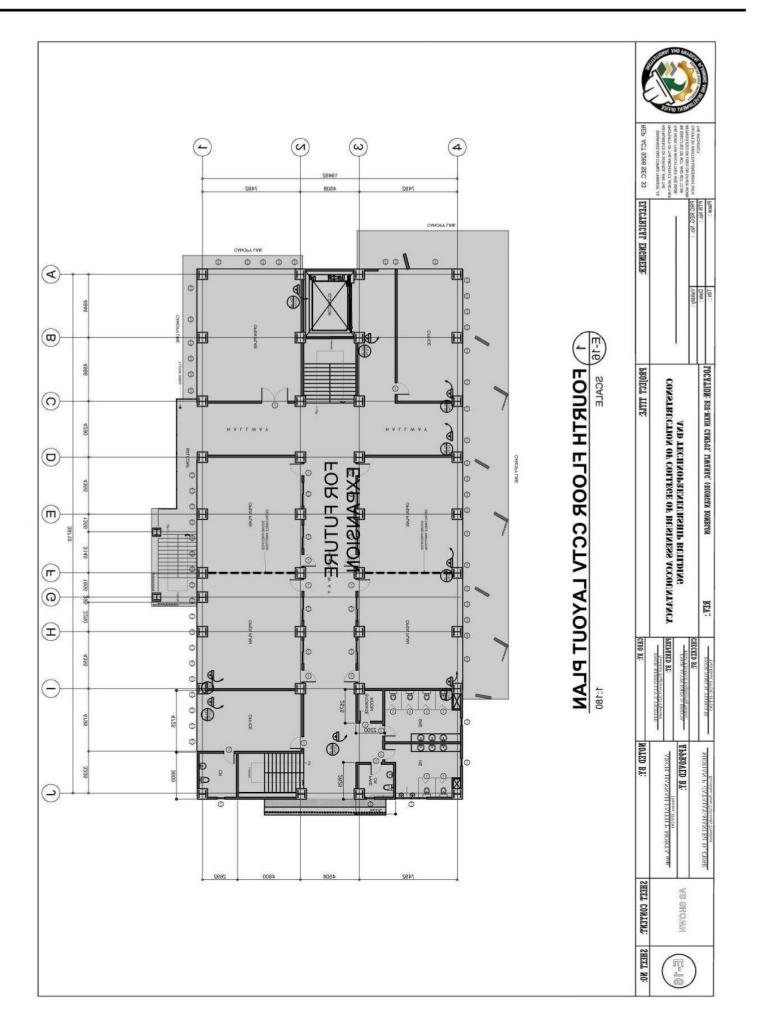






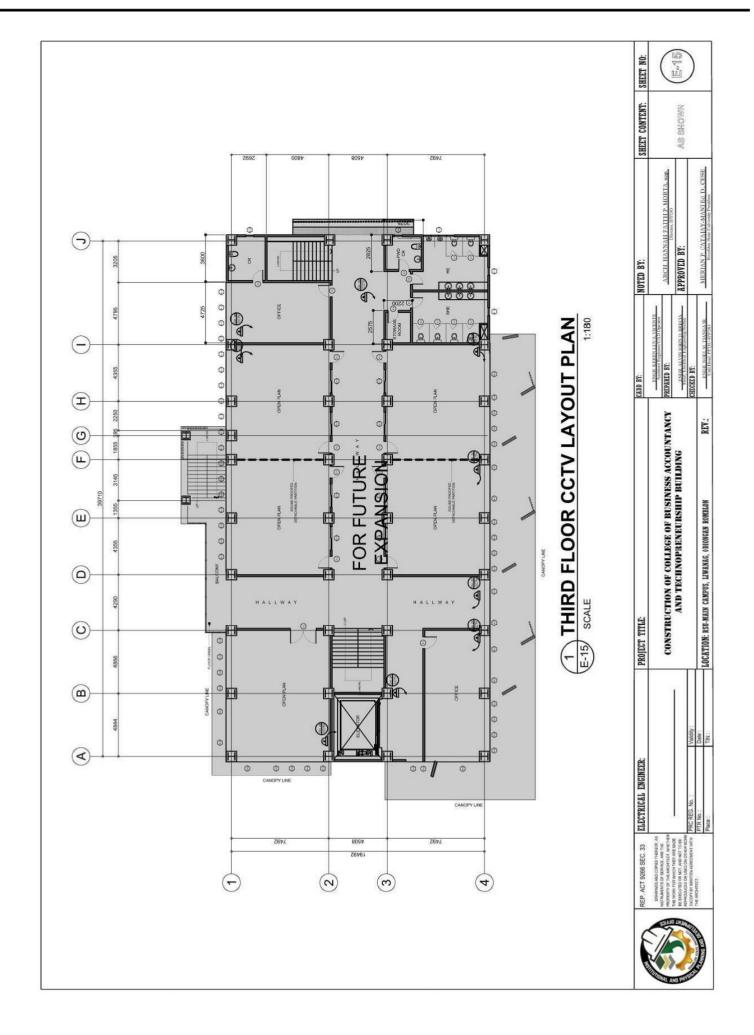






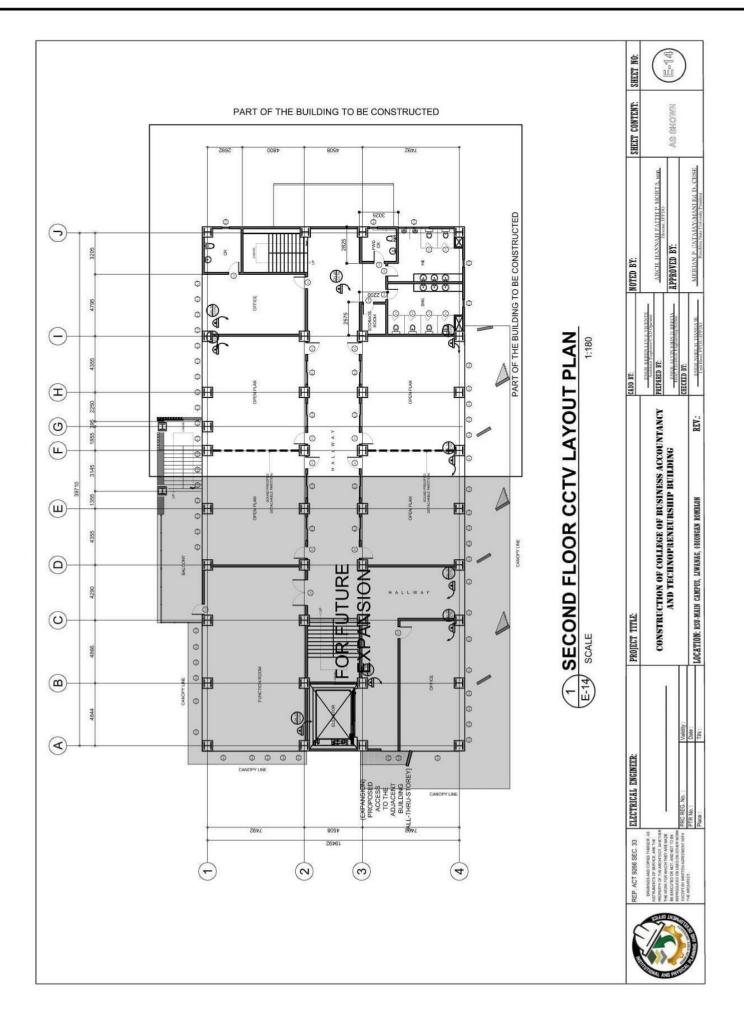






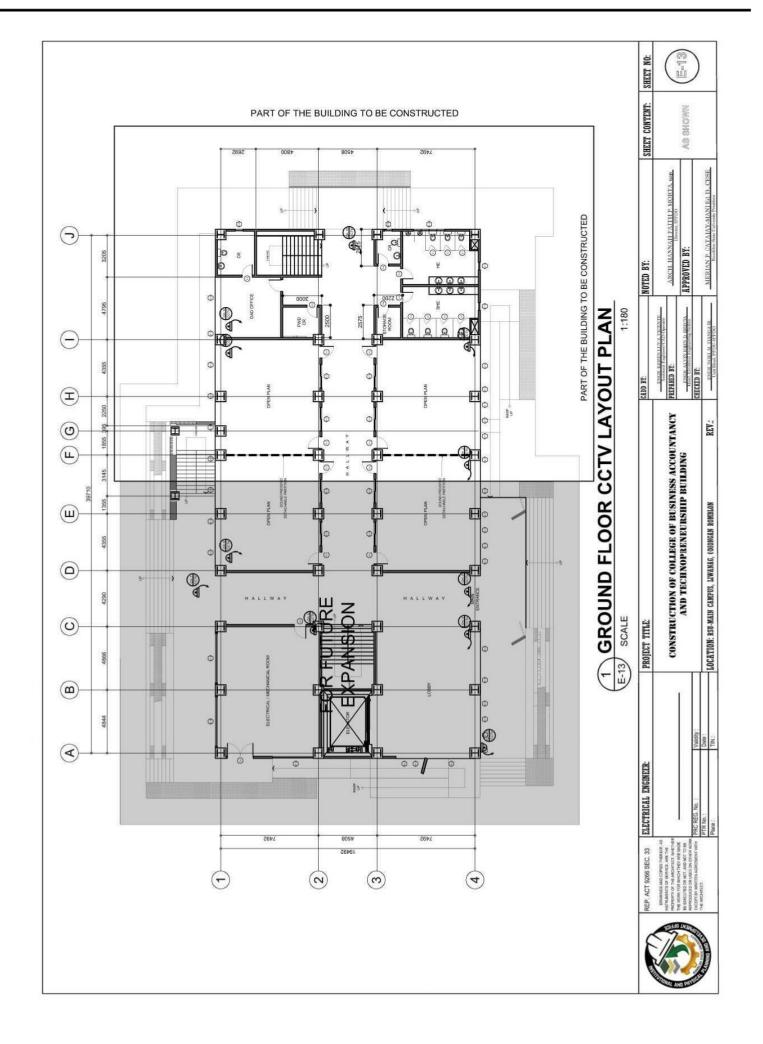








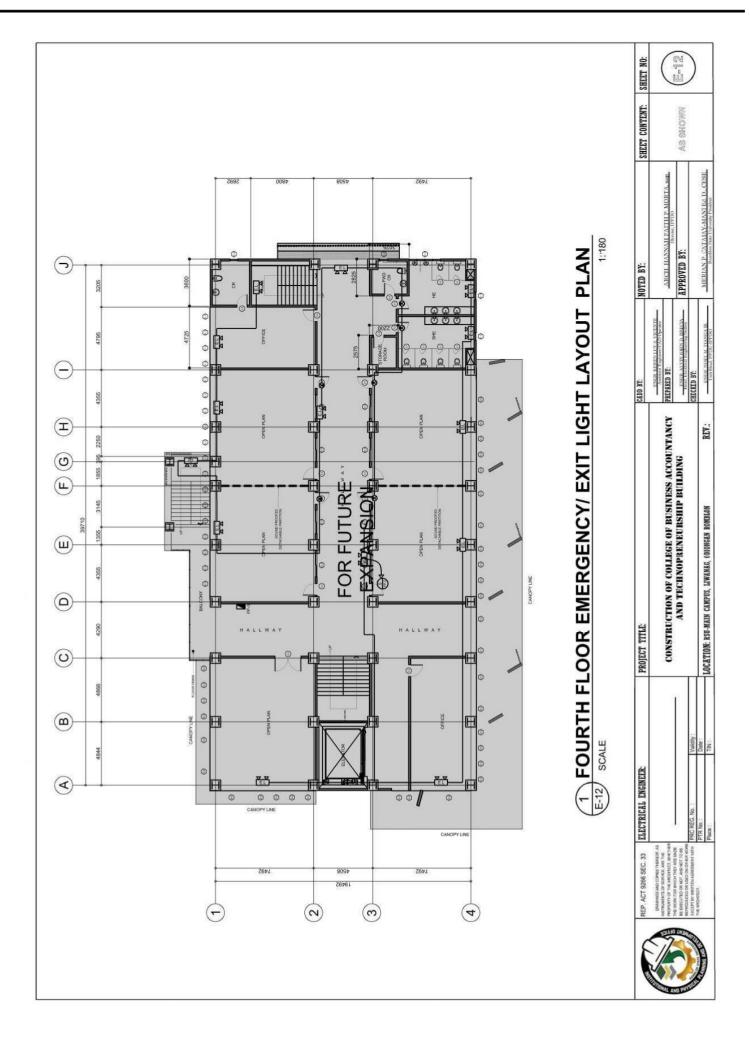






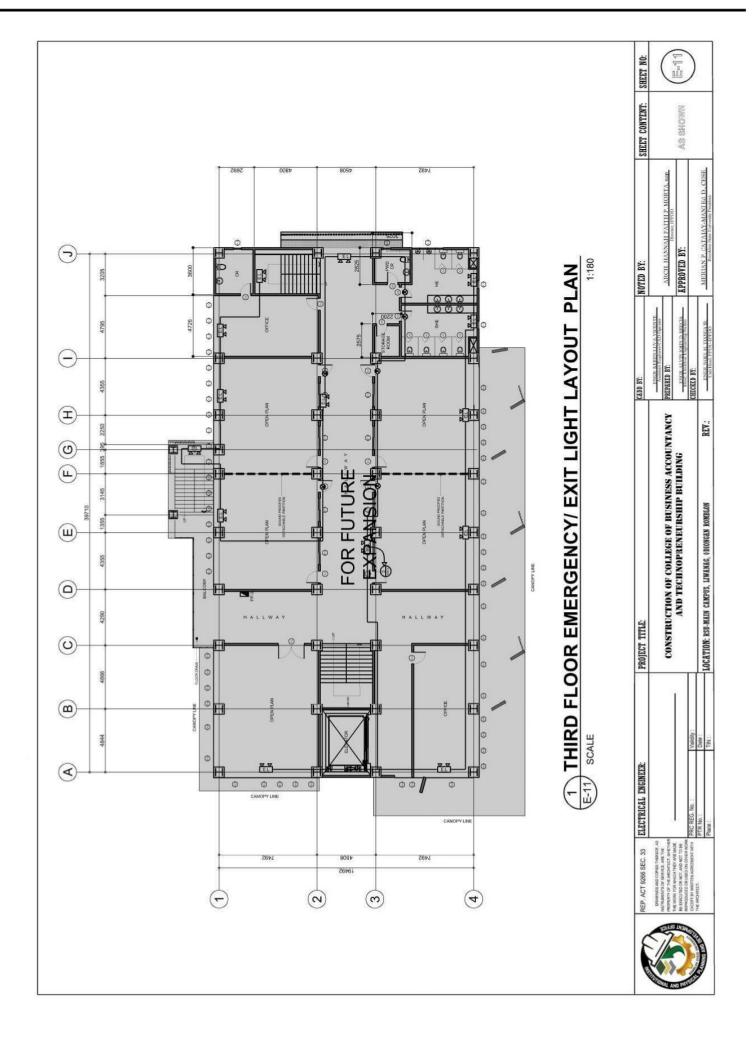








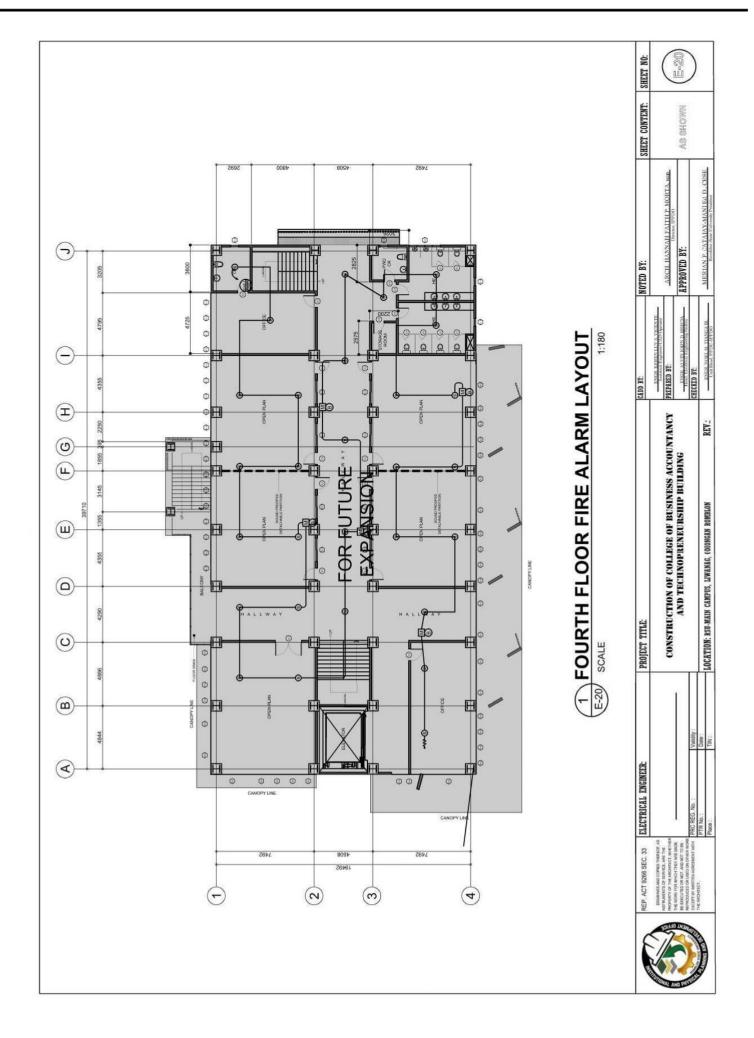


















			Rc	Mblon	Romblon State University PANEL BOARD SCHEDULE	uiver: EDUL	sity E							
PROJECT : CB.	CBAT			PREPARED BY:	ED BY:	7	AJB							
DESIGNATION: BU	BUS BAR GUTTER	2		ENCLOSURE :	URE :		NEMA 12	2						
SYSTEM: 230 MIN. LC.:	230V, 1Ø, 60Hz			MOUNTING : FEED IN :	ING :	1, 1	WALL	WALL MOUNTED	D					
					OUT:									
		LOAD		CKT. P	CKT. PROTECTION	z	C	CONDUCTOR	JR		RACEWAY	2		
Load Description	iption	VA	Α	AT	AF	Р	TYPE	SIZE (mm ² x	GND	SIZE (mm Ø)	TYPE	(m)	REMARKS	ARKS
1 TPP1		12722	55.28	100	100	2	THHN	22 x 2	8.0	25	PVC			
2 TPP2		12926	56.17	100	100		THHN	22 x 2	8.0	25	PVC			
TOTA	T	25,648.00	111.45											
				Feeder	Feeder	••	THHN 6	0mm ² x 2	THHN 60mm ² x 2, +E14.0 VIA PVC	VIA PVC				
If 111.45 x 1.25		= 139.31 A		Calculation	u	۱ ۰۰								
Icb 111.45 x 1.25		= 139.31 A												
Total KVA:		= 25.64 kVA		USE: 1	150AF bus terminal	rminal								
@ 80% Transformer Loading Limit:	ç Limit:	= 32.05 kVA												
USE: 1-37.5kVA, 7.0	6kV/230V, 60Hz	1-37.5kVA, 7.6kV/230V, 60Hz single phase pole mounted transformer	nounted tra	nsformer										







					Romble	Romblon State University PANEL BOARD SCHEDULE	Unive	ersity ULE						
	PROJE		AT		PREI	ARED BY:		AJB						
STEM: 230V, 10, 60Hz MOUNTING: PAD MOUNTED N. I.C.: TAD MOUNTED PAD MOUNTED N. I.C.: PAD MOUNTED PAD MOUNTED N. I.C.: PAD MOUNTED PAD MOUNTED N. I.C.: India Secretation CKT. PROTECTION AT I. Ighting: S24 2.28 20 2 THHN 3.57.2 2.0 15 PVC I. Ighting: S24 2.28 20 50 2 THHN 3.57.2 2.0 15 PVC I. Ighting: S24 2.33 10.13 30 50 2 THHN 3.57.2 2.0 15 PVC ACU 2.5hp (finue) 2331 10.13 30 50 2 THHN 3.57.2 2.0 15 PVC ACU 2.5hp (finue) 2331 10.13 30 50 2 THHN 3.57.2 2.0 15 PVC ACU 2.5hp (finue) 2331 10.13 30 50 2 TH	DESIG	:NOI	P2		ENC	LOSURE :		NEMA	12				ĺ	
OUT: OUT: Load Description LOAD CKT. PROTECTION CONDUCTOR RACEWAY Load Description VA A AT AF P TYPE SIZE 1 Lightings 524 228 20 50 2 THHN 2.0x2 2.0 15 PVC 2 C.0. X 9 1620 7.04 30 50 2 THHN 2.0x2 2.0 15 PVC 3 Emergency Lights 600 0.26 20 50 2 THHN 3.5 x2 2.0 15 PVC 4 ACU 1.5hp ACU 2.5hp (future) 2331 10.13 30 50 2 THHN 3.5 x2 2.0 15 PVC ACU 2.5hp (future) 2331 10.13 30 50 2 THHN 3.5 x2 2.0 15 PVC ACU 2.5hp (future) 2331 10.13 30 50 2 THN 3.5 x2 2.0 15	SYSTE WIN LA	E 1	0V, 1Ø, 60Hz		MOU	INTING :		PAD M	OUNTED				11	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$]											11	
	-			LOAD	CKI	T. PROTECT	NOI	Ō	ONDUCT	OR	R	ACEWAY	-	
		Load Descr		A	AT		Р	TYPE	SIZE (mm ² X	GND	SIZE (mm Ø)		LENGTH (m)	REMARKS
	1 Lis	ghtings	524	2.			2	THHN	2.0 x 2	2.0	15	PVC		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	0. x 9	1620				2	THHN	3.5 x 2	2.0	15	PVC		
		nergency Lights	99	0.		50	2	THHN	2.0 x 2	2.0	15	PVC		
		CU 1.5hp	1398				2	THHN	3.5 x 2	2.0	15	PVC		
		CU 2.5hp (future)	2331				2	THHN	3.5 x 2	2.0	15	PVC	_	
$ \begin{bmatrix} ACU2.5hp (future) & 2331 & 10.13 & 30 & 50 & 2 & THHN & 3.5 x2 & 2.0 & 15 & PVC \\ \hline ACU2.5hp (future) & 2331 & 10.13 & 30 & 50 & 2 & THHN & 3.5 x2 & 2.0 & 15 & PVC \\ \hline ACU2.5hp (future) & 12,926.00 & 56.17 & 9 & 9 & 9 & 9 & 9 \\ \hline TOTAL & 12,926.00 & 56.17 & 9 & 9 & 9 & 9 & 9 & 9 \\ \hline = 56.17A & Main Breaker & 100 & AT & 100 & AF & 10 \\ \hline Feeder & 1 & 100 & AT & 100 & AF & 10 \\ \hline 56.17 x 1.25 & = 70.875 & Calculation & 1 \\ \hline \end{bmatrix} $		CU 2.5hp (future)	2331				2	THHN	3.5 x 2	2.0	15	PVC		
		CU 2.5hp (future)	2331			50	2	THHN	3.5 x 2	2.0	15	PVC		
TOTAL 12,926.00 56.17 56.17 100 AT. 100 AT. = 56.17A Main Breaker : 100° AT. 100° AT. 10° AF. 1° 56.17 x 1.25 = 70.875 A Calculation : 100° AT. 100° AF. 1°		2U 2.5hp (future)	2331			50	2	THHN	3.5 x 2	2.0	15	PVC		
$ = 56.17 \text{A} \qquad \text{Main Breaker} \qquad : \qquad \frac{100}{\text{THHN 22}} \text{AT.} \qquad \frac{100}{\text{AF.}} \text{AF.} \qquad \frac{1}{\text{Main Breaker}} = 70.875 \text{ A} \qquad \text{Calculation} \qquad : \qquad \frac{100}{\text{Calculation}} \text{AT.} \qquad \frac{100}{\text{CHN}} \text{AF.} \qquad \frac{1}{\text{CHN}} \text{AF.} \qquad \frac{1}{\text{CHN}}$	_	TOTA			7								_	
56.17 Main Breaker : 100 AT, 100 AF, 100														
Feeder : Feeder : 56.17 x 1.25 = 70.875 A Calculation :			= 56.17A		Main	Breaker		100	- AT.	100	AF.	1 P.		230 V
$20.11 \times 1.23 = 70.873 \text{ A}$ Calculation		201-21	200 00 -		Feed	er		THHN	22mm ² x 2	2, +E8.0 VI	A PVC			
56.17 x 1.25 + 2.5*10.13		56.17 x 1.25 + 2.5*10.13		-	Calc	llation								
			LECTRICAL ENGINEER	PROIECT TITLE					CADD BY:		NOTED BY:		SHEET	SHEET CONTENT- SHEET NO-
ELECTRICAL ENGINEER PRODECT TITLE (AMD ST		D COPIES THEREOF, AS BERNOE, ARE THE E ANCHITECT, WHETHER		CONSTRUC	TION OF COL	LEGE OF RUSIN	TESS ACO	DUNTANCY		ARM LDV & VICENTE	ARCH. HAY	NAH FAITH P. MORTA.		
BOB SEC. 33 ELECTRICAL ENGINEER PROJECT TITLE PROJECT TITLE CARD FF: CARD F	2	HICH THEY ARE MUCE NOT, AND NOT TO BE UBED ON OTHER WORK		Y	ND TECHNO	PRENEURSHIP	BUILDIN	VG	S2	AD AND A REAL	APPROVED B	P.	Т	as shown (E-27
ELECTRICAL ENGINER: PROJECT TITLE: ELECTRICAL ENGINER: ELECTRICAL ENGINER: Anone Project TITLE: BILECTRICAL ENGINER: BILECTRICAL ENGINER: Anone CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY BILECTRICAL ENGINER: Anone AND TEACH NOPREN BUSINESS ACCOUNTANCY BILECTRICAL ENGINER:				Ĩ					CUPAUPA DV.				T	





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			Ro P	mblon ANEL B	Romblon State University PANEL BOARD SCHEDULE	nivel	rsity LE						
PROJECT : DESIGNATION: SYSTEM: MIN. L.C.:	CBAT TPP1 230V, 1Ø, 60Hz			PREPARED B ENCLOSURE MOUNTING : FEED IN : OUT	PREPARED BY: ENCLOSURE : MOUNTING : FEED IN : OUT :		AJB NEMA 12 PAD MOU	AJB NEMA 12 PAD MOUNTED					
		LOAD	D	CKT. P	CKT. PROTECTION	NC	CC	CONDUCTOR)R	×	RACEWAY		
Loa	Load Description	VA	A	AT	AF	-	TYPE	SIZE (mm ² X	GND	SIZE (mm Ø)	TYPE	(m)	REMARKS
1 Lightings		500	2.17	20	50	2	THHN	2.0 x 2	2.0	15	PVC		
2 C.O. x 8		1440	6.26	30	50		THHN	3.5 x 2	2.0	15	PVC		
3 Emergency Lights	tts	60	0.26	20	50	5	THHN	2.0 x 2	2.0	15	PVC		
4 ACU 1.5hp		1398	6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
5 ACU 2.5hp (future)	rre)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
6 ACU 2.5hp (future)	ire)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
7 ACU 2.5hp (future)	ire)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
8 ACU 2.5hp (future)	ire)	2331	10.13	30	50	-	THHN	3.5 x 2	2.0	15	PVC		
	TOTAL	12,722.00	55.28										
<u>_</u>		= 55 28A		Main Breaker	eaker		100	AT.	100	AF.	-	<u>م</u>	230 V
				Feeder		1	THHN 2	THHN 22mm ² x 2, +E8.0 VIA PVC	+E8.0 V	IA PVC			1
If 55.28 x 1.25		= 69.1 A		Calculation	tion								
Icb 55.28 x 1.25 + 2.5*10.13	2.5*10.13	= 94.43 A											
REP. ACT 9266 SEC. 33	B SEC. 33 ELECTRICAL ENGINEER.	Id	PROJECT TITLE					CADD BY:		NOTED BY:		SHE	SHEET CONTENT: SHEET NO:
	 DBC: BEG No	· vibility	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	V OF COLLES	GE OF BUSINE ENBURSHIP B	SS ACCO	UNTANCY	PREPARED BY BREED BY BREED BY BREED BY	BRER KERREL LIV 5 VICENTS MANUE BOTT ENGINE AND COMPANY PREPARE BY RECENTING OF AN WELCOME AND COMPANY RECENTING TO AN AND COMPANY SCOOL	ARCH. HANN	ARCH. HANNAH FAITH P. MORTA, und Disenvi (1940) PROVED DY:		
	PTR No.: Place:		LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	US. LIWANAG. ODI	TONCE N ROWRLOW		DEU.	VILLUTA PAGE NOT	MALU DI. ENGR NORLM TIANGA IR	MERIAN P.	MERIAN P. CATAIAY-MANIEd. D., CESE	J. D. CESE	







PRO-INCT: CAL C	Romblon State University PANEL BOARD SCHEDULE	ersity ULE						
Load Description Total (VA) 1 PP1 30.233.00 0 2 PP2 33.662.00 0 3 PP4 30.233.00 0 5 PP4 30.233.00 0 5 PP4 30.233.00 0 5 PP4 38.394.00 0 5 Fire Pump (jockey) 1865 28.66 1 Fire Pump (jockey) 1865 28.66 0 Space 1500 28.66 1 T O T A L 165.578.00 28.86 240.83*0.8 = 192.66 A 192.66 A 1 (192.66-58.94)+(1.25*58.94) = 207.39 A 208.61 = 192.66 A 192.66 A 1 (192.66-58.94)+(1.25*58.94) = 237.32 A 208.61 = 192.65 XVA 28.86 208.73 = 192.65 XVA 28.64 208.81 = 165.57 KVA 28.64 209.82 = 233.72 A = 237.32 A al KVA: = 165.57 KVA 28.64 209.66 S8.94)+(1.25*58.94) = 237.55 KVA 209.66 S8.94)+(100 = 236.55 KVA 209.66 S8.64 = 235.55 KVA 209.66 = 236.55 KVA USE<	PREPARED B ENCLOSURE: MOUNTING : FEED IN :	PREPARED BY: ENCLOSURE : MOUNTING : FEED IN : OUT -	AJB NEM PAD	AJB NEMA 12 PAD MOUNTED			[[]]]	
Load Description Total (VA) Total (VA) Total (VA) 30 2 PP2 33,662.00 0 36 30 <td< th=""><th>CKI</th><th>CKT. PROTECTION</th><th></th><th>CONDUCTOR</th><th>R</th><th>RACEWAY</th><th></th><th></th></td<>	CKI	CKT. PROTECTION		CONDUCTOR	R	RACEWAY		
1 PP1 30,233,00 0 2 PP2 33,662,00 0 5 PP4 38,394,00 0 7 Fire Pump (jockey) 1865 28,86 7 Fire Pump (jockey) 1865 28,86 9 Spare 1500 28,86 10 Space 1500 28,86 11 Coloce 58,94)+(1,25*58,94) 20,033,03 28,86 10 Space 1500 28,86 11 165,578,00 28,86 10 Space 1500 28,86 10 Space 192,66 59,40 10 Space 192,66 38,34,00 28,86 10 Space 192,66 240,83 240,83 10 Space 192,66 23,34 240,83 10 Space 192,66 23,45 207,39 10 192,66 23,45 23,45 167,55 10 192,66 23,45 23,45 167,55 10 192,66 23,45 23,45 167,55 10 10 23,55 167,55 165,55 10 10 23,55 167,55 167,55 <th>V</th> <th>AF</th> <th></th> <th>TYPE SIZE</th> <th>GND</th> <th>SIZE (mm TYPE LE</th> <th>LENGTH REMARKS (m)</th> <th>RKS</th>	V	AF		TYPE SIZE	GND	SIZE (mm TYPE LE	LENGTH REMARKS (m)	RKS
2 PP2 33,662.00 0 3 PP3 37,424.00 0 5 PP4 38,394.00 0 7 Fire Pump (jockey) 1865 28,86 1 Fire Pump (jockey) 1865 28,86 1 Same 1500 28,86 10 Space 1500 28,86 11 Same 1500 28,86 10 Space 192,66 32,372 240,83*0.8 =192,66 207.39 39 10 (192,66-58,94) =230,739 207.39 10 (192,66-58,94) =237,72 34 10 (192,66-58,94) =237,55 34 10 (192,66-58,94) =237,54 207.39 10 (192,66-58,94) =235,57 34 10 (192,66-58,94) =235,57 34 10 (192,66-58,94) =235,57 34 10	45.25 100	110	3 TH	THHN 22 x 4	8.0	15 PVC		
3 PP3 37,424.00 0 5 PP4 38,394.00 0 7 Fire Pump (jockey) 1865 38,394.00 9 Swater pump 20,000.00 28,86 10 Space 1500 28,86 10 Space 1500 28,86 11 165,578.00 28,86 10 Space 1500 28,86 11 165,578.00 28,86 10 Space 192.66 240.83 10 192.66<-58.94		110			8.0	-		
5 PP4 38.394.00 0 7 Fire Pump (jockey) 1865 28.86 9 Spare 1500 28.86 10 Space 1500 28.86 20,005.05 1500 28.86 10 Space 165.57 240.83 10 (192.66-58.94)+(1.25*58.94) 207.39 207.39 10 (192.66-58.94)+(1.25*58.94) 237.2 A 207.39 A 10 (192.66-58.94)+(1.25*58.94) 237.5 A 10<		110			8.0			
6 Elevator 20,000.00 28.86 7 Fire Pump (jockey) 1865 28.86 9 Spare 1500 28.86 10 Space 1500 28.86 20 Space 1500 28.86 10 Space 1500 28.86 10 Space 1500 28.86 20.83*0.8 = 240.83 A 240.83 A 80% DF 240.83*0.8 = 192.66 A 192.66-58.94)+(1.25*58.94) = 207.39 A 240.83*0.8 = 192.66 A 290% Demand Factor: = 132.45 kVA 80% Demand Factor: = 132.45 kVA 70% Genset Loading Limit: = 236.52 kVA 70% Genset Loading Limit: = 236.52 kVA Memory of Memory o	56.77 100	110	10 10	+	8.0	_		Τ
8 witter pump 2500 9 Space 1500 0 Space 1500 28.86+(211.97) 28.86+(211.97) 28.86+(211.97) = 240.83 A 80%.DF = 192.66 A 210.83*0.8 = 192.66 A 192.66-58.94)+(1.25*58.94) = 207.39 A 208.96 = 192.66 A 192.66-58.94)+(1.25*58.94) = 207.39 A 208.96 = 192.66 A 192.66-58.94)+(100 = 237.72 A 31 kVA: = 165.57 kVA 80% Demand Factor: = 133.45 kVA 90% Genset Loading Limit: = 236.52 kVA 70% Genset Loading Limit: = 236.52 kVA 0 eP.ACT 608 SEC.8	30	30	3 TH	THHN 8.0x4 THHN 35x2	3.5	15 PVC		
9 Spare 1500 10 Spare 1500 28.86+(211.97) 28.86+(211.97) 28.96+(211.97) 29.83 A 28.96+(211.97) 29.83 A 29.8.739.08 29.83 A 20%.DF 29.66 A 210.83*0.8 192.66 A 210.83*0.8 192.66 A 210.83*0.8 192.66 A 210.83*0.8 192.66 A 207.39 A 297.39 A 208% DF 207.39 A 208% Demand Factor: 132.45 kVA 80% Demand Factor: 132.45 kVA 70% Genset Loading Limit: 236.52 kVA 70% Genset Loading Limit: 236.52 kVA 80% Demand Factor: 236.52 kVA	30	30	TH TH		0.0	-		
10 Space 165,578.00 28.86 28.0% DF 28.86+(211.97) = 240.83 A 28.0% DF = 192.66 A 240.83*0.8 = 192.66 A 192.66-58.94)+(1.25*58.94) = 192.66 A 192.66-58.94)+(1.25*58.94) = 207.39 A 240.83*0.8 = 192.66 A 192.66-58.94)+(100 = 237.72 A 31 kVA: = 165.57 kVA 80% Demand Factor: = 133.45 kVA 90% Censet Loading Limit: = 236.52 kVA 70% Genset Loading Limit: = 236.52 kVA 00% Censet Loading Limit: = 236.52 kVA	6.52 30	30	3 TH	-		-		
TOTAL 165,578.00 28.86 28.86+(211.97) $= 240.83$ A 290% DF $= 192.66$ A 240.83*0.8 $= 192.65$ A 31 kVA: $= 165.57$ kVA 30% Demand Factor: $= 132.45$ kVA 80% Demand Factor: $= 132.45$ kVA 90% Censet Loading Limit: $= 255.57$ kVA 70% Genset Loading Limit: $= 236.52$ kVA 90% Censet Loading Limit: $= 236.52$ kVA		30	3 TH	NHHI			77-11	
$28.86+(211.97) = 240.83 \text{ A}$ $80\% \text{ DF}$ $240.83^{\circ}0.8$ $240.83^{\circ}0.8$ $(192.66-58.94)+(10.25^{\circ}58.94)$ $(192.66-58.94)+(100$ $= 207.39 \text{ A}$ $(192.66-58.94)+(100$ $= 233.72 \text{ A}$ $= 165.57 \text{ kVA}$ $80\% \text{ Demand Factor:} = 132.45 \text{ kVA}$ $80\% \text{ Demand Factor:} = 132.45 \text{ kVA}$ $10\% \text{ Genset Loading Limit:} = 236.52 \text{ kVA}$ $10\% \text{ Genset Loading Limit:} = 236.52 \text{ kVA}$ $10\% \text{ Genset Loading Limit:} = 236.52 \text{ kVA}$ $10\% \text{ Genset Loading Limit:} = 236.52 \text{ kVA}$ $10\% \text{ Genset Loading Limit:} = 236.52 \text{ kVA}$	211.97							
240.83*0.8 = 192.66 Å (192.66-58.94)+(1.25*58.94) = 207.39 Å (192.66-58.94)+100 = 235.72 Å 1KVA: = 165.57 kVA 0% Demand Factor: = 132.45 kVA 0% Genset Loading Limit: = 132.45 kVA 0% Genset Loading Limit: = 236.52 kVA 0% Genset Loading Limit: = 236.52 kVA	Main Breaker Ecodor	1945 - 20 28	F	250 AT.	250 A	250 AT. 250 AF. 3 P. 4 TULIN 1 156-005 2 4 VI 756-003 LED3-007 1 AUG Conduct	8	V
192.66-58.94)+(1.25*38.94) = 122.60 A 192.66-58.94)+100 = 233.72 A 1KVA: = 165.57 kVA 0% Demand Factor: = 132.45 kVA 0% Genset Loading Limit: = 132.45 kVA 0% Genset Loading Limit: = 236.52 kVA 0% Genset Loading Limit: = 236.52 kVA	Caloulation	 		LIIIIC71-1 VIII	1071N + 'C	nnr +E22mir VIA r	VC CONDUIT	
(192.66-58.94)+100 = 233.72 Å 1kVA: = 165.57 kVA 0% Demand Factor: = 132.45 kVA 0% Genset Loading Limit: = 132.65 kVA 0% Genset Loading Limit: = 236.52 kVA 0% Genset Loading Limit: = 236.52 kVA	Calcula							
= 165.57 kVA = 132.45 kVA = 105.57 kVA = 236.52 kVA = 236.52 kVA = 236.52 kVA = 236.52 kVA = 256.52 kVA = 256	USE:	250AF Neutral Bus Terminal	l Bus Term	iinal				
= 132.45 kVA = 165.57 kVA = 236.52 kVA = 236.52 kVA = 236.52 kVA P								
ELECTRICAL ENGINEER	with neutral, Pad 60Hz, Silent Type	I mounted cabine Diesel Generat	et type oil i lor	mmersed transfor	mer			
ELECTRICAL ENGINEER]
Development of the construction of the contraction			CADD BY:		NOTED BY:		SHEET CONTENT:	SHEET NO:
	E OF BUSINESS /	ACCOUNTANCY DING		REFERENCES AND A WERTER	ARCH. HAND	ARCH. HANNAH FAITH P. MORTA, und Descriftedo PROVED BY:	AS SHOWN	<u>S</u>
DEPENDENT NOT THE PROPERTY OF	NGAN ROMRLON	REV:	CHECKED B	ECKED BT: BYGR NOELEN TIANGA IR		MERIAN P. CATAIAY MANIEL D. CESE	ы)







							Π	П	Т		Т			_									Т	Т									SHEET NO:	((E-24))
					REMARKS																							400V V	conduit				SHEET CONTENT:		AS SHOWN	
				AY	LENGTH	(m)																						4	VIA PVC					ARCH, HANNAH FAITH P. MORTA, uap		
				RACEWAY	TVBD	ITE	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC			3	+E8.0m					NAH FAITH		
					SIZE	-							0 2		15	15	15	15	15					C 1				AF.	(22mm ²				NOTED BY:	ARCH. HAN	APPROVED BY:	
				OR	CND	-	-	-	-	-	-	-	2.0	-	2.0	2.0	2.0	2.0	_	_	-	-	-	0.2	-		_	100	x 3, + N				LON			
		NEMA 12 PAD MOUNTED		CONDUCTOR	SIZE (mm2 v	(viii)	2.0 x 2	2.0 x 2	3.5 x 2	3.5 x 2	2.0 x 2	3.5 X 2	35x2	3.5 x 2	3.5 x 2	3.5 x 2	3.5 x 2	3.5 x 2	3.5 x 2	3.5 x 2	3.5 x 2	3.5 x 2	3.5 x 2	2XC.5	3.5 x 2			AT.	1-22mm ²					PREPARED BY: PREPARED BY:	BRGR ALWIN IOHNE ARECTA	
	AJB	PAD MOU		CO	TVDE	ITTE	NHIHT	NHIHT	THHN	THHN	NHHT	NHHI	THHN	NHIHT	NHIHT	THIHN	NHHT	NHIHT	NHIHT	NHIHI	NHIHT	NHHI	NHHI	THHN	NHHI			100	NHHI			SI	CADD BY:	PARED BY:	BIGR ALVIE Had, Elevied	CKED BY:
				NOI	D	-	-	-	1	+	+			1	1	1	1	1	1	1	-	1				1						eutral Bu	CAD		2	CHE
LE	ED BY:	ING :	IN: OUT:	CKT. PROTECTION	AE	AF	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	00	50	50		aker		uo		100AF Neutral Bus		OUNTAN	90	
CHEDU	PREPARED BY:	ENCLOSURE : MOUNTING :	FEED	CKT. PI	ΥT	IN	20	20	30	30	20	20	20	20	20	30	30	30	30	30	30	30	30	30	30			Main Breaker	Feeder	Calculation		USE:		VESS ACC	BUILDE	
BOARD S	-		-			ØCN			6.3	11.7		-	t	8.1	6.07	_				10.13	10.13				4.34		56.77		-	0				OF BUSH	BURSHIP	
PANEL BOARD SCHEDULE					ES	OBN (2.4	+	-	0.26	+	81			10.13	_	_	10.13	-		10.13	+	10.12	C1.V		51.28							CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY	AND TECHNOPRENEURSHIP BUILDING	
				D	AMPERES		2.22		+	-	+	8.1	8.1		_		10.13	10.13	_	_	+	-	10.13	10.15			58.94							CTION OF	AND TEC	
				LOAD		30 0	~		+					-			1	=		_			= •	-			•						ECT TITLE	ONSTRUC		
						3	_		-	_	_	+	-							_	_		-	-	-		00						PROJECT	0		٦
					V.V.	AA	510	516	1440	2700	60	1865	1865	1865	1398	2331	2331	2331	2331	2331	2331	2331	2331	2331	1000		38,394.00	= 58.94 A		= 47.15 A	= 49.68A	= 67.02 A				
		ZH							1	+	1	t	T			_							1	t	t			Ш		Ш	11	11	ė.		1000	Validity
	T	PP4 (future) 400V, 3Ø, 60HZ			tion																										3)		ELECTRICAL ENGINEER:			D. :
	CBAT	PP4 400V			Load Description																						TOTAL				.25*10.1		ELECTRIC	. *		PRC REG. No.
	CT:	DESIGNATION: SYSTEM:	:		Load		1 Lightings	2 Lightings	3 C.O. x 8	4 C.O. x 15	5 Emergency Lights	6 ACU 2.0hp	/ ACU 2.0hp	9 ACU 2.0hp	10 ACU 1.5hp	11 ACU 2.5hp	12 ACU 2.5hp	13 ACU 2.5hp	14 ACU 2.5hp	15 ACU 2.5hp	16 ACU 2.5hp	17 ACU 2.5hp	18 ACU 2.5hp	19 ACU 2:5hp	are	Space		0+(58.94)	DF	58.94*0.8	(47.15-10.13)+(1.25*10.13)	(47.15-10.13)+30	REP. ACT 9266 SEC. 33	MUNIMOR AND COPIES THEREOF, A HUMBITS OF SERVICE, ARE THE HEALY OF THE ANCHINET, WHETH	LYNORK FOR WHICH THEY ARE MUCH EXECUTED OR NOT, AND NOT TO BE ROCUCED OR USED ON OTHER WO!	EXCEPT BY WRITTEN ACREEMENT WITH
	PROJECT :	DESIGNA SYSTEM:	MIN. LC.:				1 Li	2 Li	3 C.	4 C.	5 Et	6 A	8 A(9 A(10 A(11 A(12 At	13 At	14 At	15 At	16 A	17 A	18 A	A 00	11 Spare	12 Sp		lc 0+	80			Icb (4	R R			No In











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					PANEL	PANEL BOARD SCHEDULE	CHEDUL	म्								
PROJECT :	1						PREPARED BY:	LED BY:	Y	AJB NEWA 13						
DESIGNATION: SYSTEM: MIN. LC.:	ION: PP2 (TUTURE) 400V, 30, 60HZ	ZH09					ENCLOSUKE: MOUNTING: FEED IN: OUT:	SUKE: ING: IN: OUT:	Z A	PAD MOUNTED	NTED					
				OAD			CKT. PI	CKT. PROTECTION	N	CON	CONDUCTOR		RA	RACEWAY		
	Load Description	TTA		AMPERES	RES		AT	A L		VIDE	SIZE		SIZE	TVDF LF	LENGTH	REMARKS
_		AA	30	ØAN	ØBN	ØCN	AI	AF	r I	IYPE (n	(mm ⁻ x (-	I Y PE	(m)	
I Lightings	8	500		2.17			20	50	I TH	THHN 2.	2.0 x 2	2.0	15 1	PVC	-	
2 Lightings	8	456			1.98		20	50	I II	THHN 2.	2.0 x 2	2.0	15 1	PVC		
3 C.O. x 8	8	1440				6.3	30	50	I TI		3.5 x 2	2.0	-	PVC		
4 C.O.X7	1	1260				7.8	30	50	II II	-	3.5 x 2	2.0		PVC		
5 C.O.X8	~	1440			6.3		30	50	I D	+	3.5 x 2	2.0		PVC		
5 Emerge	5 Emergency Lights	99		0.2			20	50	I I	-	2.0 x 2	2.0		PVC		
6 ACU 2.0hp	0hp	1865		8.1			20	50	+	+	3.5 x 2	2.0	-	PVC		
7 ACU 2.0hp	0hp	1865			8.1		20	50	-	+	3.5 x 2	2.0	-	PVC	+	
8 ACU 2.0hp	0hp	1865				8.1	20	50		THHN 3.	3.5 x 2	2.0	15 1	PVC		
10 ACU 1 Sho	Sho	1308			6.07	0.1	20	00	-	-	2500	0.7	-	DVIC		
11 ACU 2.5hp	5hp	2331		10.13	10.0		30	50	-	+	3.5 x 2	2.0	-	PVC		
12 ACU 2.5hp	Shp	2331		10.13			30	50	I TH		3.5 x 2	2.0	+	PVC		
13 ACU 2.5hp	Shp	2331			10.13		30	50	I TI	THHN 3.	3.5 x 2	2.0	15 I	PVC		
14 ACU 2.5hp	Shp	2331				10.13	30	50	II I	THHN 3.	3.5 x 2	2.0	15 1	PVC		
15 ACU 2.5hp	Shp	2331				10.13	30	50	I II	THHN 3.	3.5 x 2	2.0	15 I	PVC	_	
16 ACU 2.5hp	Shp	2331			10.13		30	50	I II	THHN 3.	3.5 x 2	2.0	-	PVC		
17 ACU 2.5hp	Shp	2331		10.13			30	50	I I	+	3.5 x 2	2.0	-+	PVC	+	
18 ACU 2.5hp	Shp	2331		10.13			30	50	+	+	3.5 x 2	2.0	-	PVC	+	
19 Spare		1000			4.34		30	50		THHN 3.	3.5 x 2	2.0	15 1	PVC		
	TOTAL	33,662.00		50.99	47.05	50.56		S	·	+						
Ic 0+(60)		= 60 A					Main Breaker	aker		100 AT.	2	100 A	AF.	3 P.	400V	V V
80							Feeder		1	HIN 1-22	mm ² x 3,	+ N22mm	r ² +E8.0n	THHN 1-22mm ² x 3, + N22mm ² +E8.0mm ² VIA PVC conduit	/C conduit	
60*0.8		= 48 A					Calculation	on								
	(48-10.13)+(1.25*10.13)	= 50.53 A														
lcb (48-10.13)+30	13)+30	= 67.87 A					USE:	100AF Neutral Bus	ıtral Bus							
	REP. ACT 9266 SEC. 33 ELI	ELECTRICAL ENGINEER	PROJE	PROJECT TITLE					CADD BY:		Y	NOTED BY:			SHEET CONTENT:	ENT: SHEET NO:
T	DRAVINGS AND COPES THEREOF, AS NUTLIMENTS OF SERVICE, ANE THE PROPERTY OF THE ANOTHER, WEITHER THE WORK FOR WHEN THEY ARE WORK		• 	ONSTRUCT	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY	EGE OF BUSI	INESS ACO	DUNTANCY		RAGR KEERILLY & VICENTE Andivan Engines/CALD Operato PREPARED BY:	Ш	ARCH. HAN	NAH FAITH.	ARCH, HANNAH FAITH P. MORTA, uap. Discret (1990)		C
	UTED OR NOT, AND NOT TO BE UCED OR UBED ON OTHER WORK BY WRETTEN AGREEMENT WITH	PRC REG. No. : Validity :		AN	JONHOFL O	KEN BU KSH	VICTINS A	9		BACK ALVIE I CHER IS BEEZA HART ENERGI EREMAN SCOUNT		APPROVED BY:	Ϋ́		as shown	WN G-22
Contraction of the second second																

					PANE	PANEL BOARD SCHEDULE	PANEL BOARD SCHEDULE	DULE								
: TION:	CBAT PP1 (future) 400V, 30, 60HZ			111			PREPARED BY: ENCLOSURE : MOUNTING :	ED BY: URE : NG :		AJB NEMA 12 PAD MOI	AJB NEMA 12 PAD MOUNTED					
MIN. I.C.:				T			FEED	IN: OUT:								
			LOAD				CKT. I	CKT. PROTECTION	NOI	0	CONDUCTOR	OR	Ť	RACEWAY	2	
Load Description	cription			PEF			AT	AF	4	TYPF.	SIZE (mm ² x	GND		TVPE	1	REMARKS
		30		+	OBN (ØCN					On		(0 mm 0)	-	(m)	
1 Lightings	524		2.27	_	-		20	50	-	NHHI	2.0 x 2	2.0	15	PVC		
2 Lightings	458		+		6	101	20	50		NHHI	2.0 x 2	2.0	15	PVC		
5 C.U.X9	1620		-	-	-	7 0.7	30	00		THIN	5.2 X C. E	2.0	c1 21	PVC		
5 Emeroency Light	1800		+	0	0 24	70.1	00	005		THHN	2 X C.C	0.2	51	PVC		
7 ACU 2.0hp (phase2)	1865	2	8.1	+	1		20	50	-	THHN	3.5 x 2	2.0	15	PVC		5
8 ACU 2.0hp (phase2)	1865	2	8.1				20	50	-	NHHT	3.5 x 2	2.0	15	PVC		
9 ACU 1.5hp (phase1)	1398	8		6.	6.07		20	50	-	NHHT	3.5 x 2	2.0	15	PVC		
10 ACU 2.5hp	2331	_				10.13	30	50	-	THHN	3.5 x 2		15	PVC		
11 ACU 2.5hp	2331	_				10.13	30	50	-	NHHT	3.5 x 2		15	PVC		
12 ACU 2.5hp	2331	_		+	10.13		30	50	-	NHHT	3.5 x 2		15	PVC		
13 ACU 2.5hp	2331	_	10.13	13	-		30	50	-	NHHI	3.5 x 2	2.0	15	PVC		
14 ACU 2.5hp	2331	_	10.13	3	-		30	50	-	THHN	3.5 x 2		15	PVC		
15 ACU 2.5hp	2331	_	_	16	10.13		30	50	-	THHN	3.5 x 2	2.0	15	PVC		
16 ACU 2.5hp	2331	_				10.13	30	50	-	NHHT	3.5 x 2	2.0	15	PVC		
17 ACU 2.5hp	2331	_		16	10.13		30	50	-	THHN	3.5 x 2	2.0	15	PVC		
18 Fire Alarm Control Panel		0	4.3	34	-		30	50	-	NHHI	3.5 x 2	2.0	15	PVC		
19 Spare	1000	0	_	4	4.34		30	50	-	NHHL						
20 Space			+	_	_			50	-	THHN						
IOIAL		30,233.00	- 43.07	_	43.04	45.25										
lc 0+(60)	= 60 A						Main Breaker			100	AT.	100 AF.	AF.	۳		400V V
80						-	Feeder			NHHT	1-22mm ²)	(3, + N22I	nm ² +E8.	Dmm² VIA	C con	j
60*0.8	= 48 A					-	Calculation									
If (48-10.13)+(1.25*10.13)	3) = 50.53A															
~		1					USE: 1	100AF Neutral Bus	ttral Bus							
REP. ACT 9268 SEC. 33	2, 33 ELECTRICAL ENGINEER		PROJECT TITLE	1					<u>C</u>	CADD BY:		NOTED BY:			SHEET CONTENT	NTENT: SHEET NO:
	2 Ē,		CONST	RUCTION	I OF COL	EGE OF B	USINESS	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY		RYCR. KEREN LLV S. MCENTE Andrum Engines/CALFOperator PREPARED BT:	LUV 3 VICENTE		HANNAH FALT	ARCH, HANNAH FAITH P. MORTA, und Desense, 199400		
	OT TO RE INER WORK RET WITH PRC REG. No. : Validity :			AND	FISCHNOL	RENEUR	AND TECHNOPRENEURSHIP BUILDING	5010C		EXCEL BY: ECKED BY:	ENGE ALVIN COLIN IS HERE OF) BY:		AS SHOWN	NWON



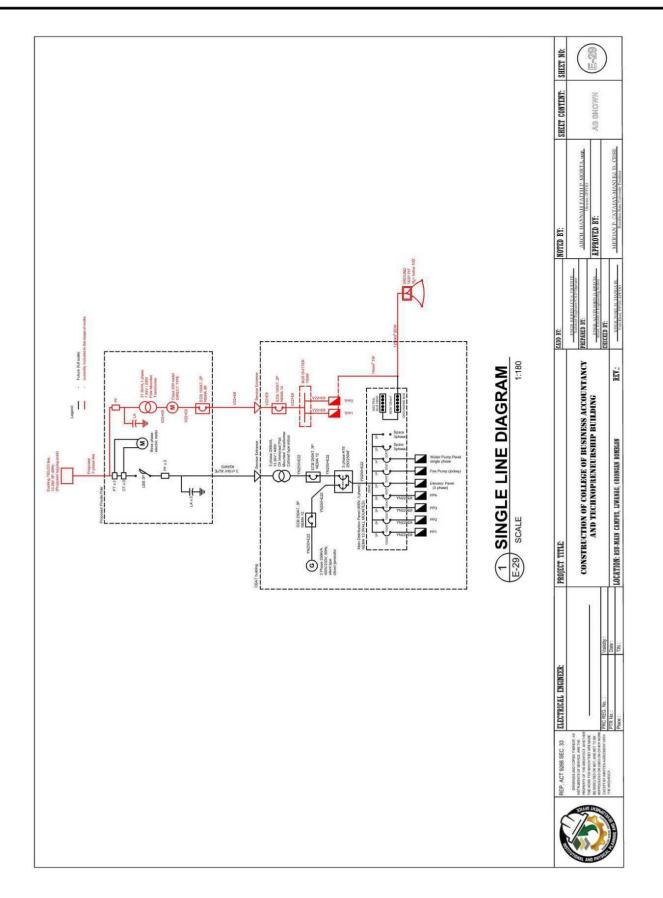






BIDS AND AWARDS COMMITTEE Community Outreach Center, RSU-Main Campus, Liwanag, Odiongan, Romblon 5505 Telephone: (042) 567-5952 Email: bac@rsu.edu.ph Website: rsu.edu.ph





Please be advised that this bid bulletin is issued to amend the Electrical Plan in all attached/associated documents. This shall be an integral part of the Bid Documents.

For information and guidance of all concerned.

