

BULACAN AGRICULTURAL STATE COLLEGE

Office of Bids and Awards Committee

Pinaod, San Ildefonso, Bulacan, Philippines 3010

October 27, 2022

Bid Bulletin No. 3 REPLY TO QUERIES AND CLARIFICATIONS BY BIDDERS

Name of Project:	2022-06-INFRA: Construction of Solar Powered Four Storey 20 Classroom Academic Building (Phase 1)
ABC: Php25,0	000,000.00

This Bid Bulletin No. 3 is issued to modify or amend items in the Bidding Documents for the above cited project and to address queries/ clarifications sent by bidders through e-mail in compliance with Section 22.5.1 of the 2016 Revised IRR of RA 9184. This shall form an integral part of the said Bidding Documents.

I. Reply to Clarifications sent by Bidder through E-mail

A. Plumbing Works

<u>For Item 1</u>. Which is to be used: PPR Pipe 20mm (BOQ) or PVC Pipe 25mm (Plan)? *Please use PPR Pipe 20mm as per written in the BOQ*.

For Items 2-7. Please allow us to provide you an updated Plumbing Plans on this matter.

<u>For Item 8</u>. Specification on the type of waterproofing to be used will depend on the winning contractor, the use of Torch-Applied Membrane, Adhesive-Type Membrane, and the likes can be proposed and subject for approval of the Supervising engineer.

B. Ceiling Finishes

Please see attached files.

C. Wall Finishes

It is included in the Bill of Quantities and is specified to be concrete plastered on both side with paint finish.

D. Tile Works

For the classroom, please use the 60cm x 60cm Glazed Tiles. For the hallway, please use the 60cm x 60cm Unglazed Tiles. For the toilet, please use 30cm x 30cm Unglazed Tiles for both floor and wall.



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E. Sanitary Works/Fittings

<u>For Item 1 and 2.</u> Please note that we included "other consumables and miscellaneous" for some items that was not indicated on the Bill of Quantities but stated in the Technical Specifications.

For Item 3. Please see attached Plumbing Plan.

F. Electrical Works

For Item 1&3. Service Entrance Set includes Main Feeder Line. For Item 2. It will only cover Ground to Second Floor. For Item 4. It is estimated to be about 15m from existing Meralco Post. For Item 5. It is indicated in the Electrical Plans under file Sheet E-01, E-02 and E-05.

For the guidance and information of all concerned.

RONALD REAGAN T. ALONZO, Ph.D.

BAC Chairperson

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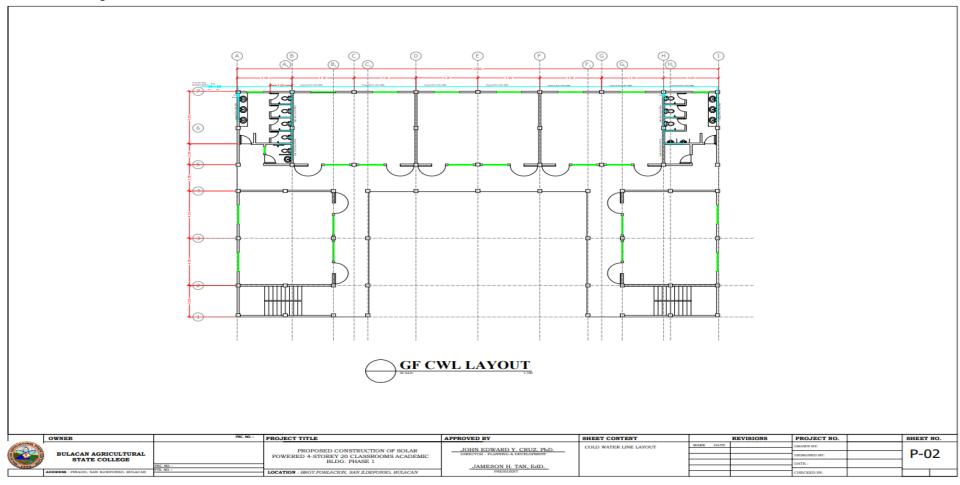
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A. Plumbing Works

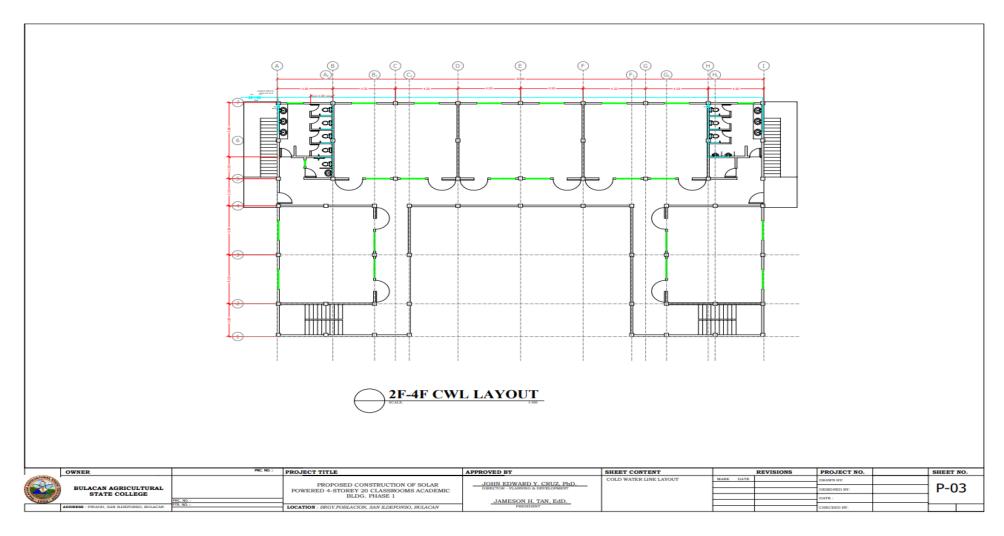




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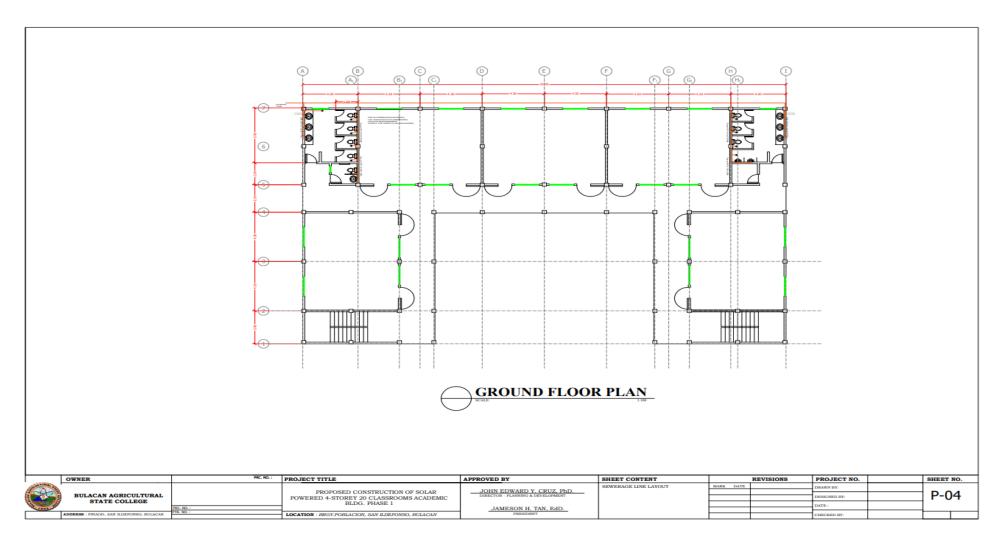
www.boog.adu.ph / Emailt infa@boog.adu.ph



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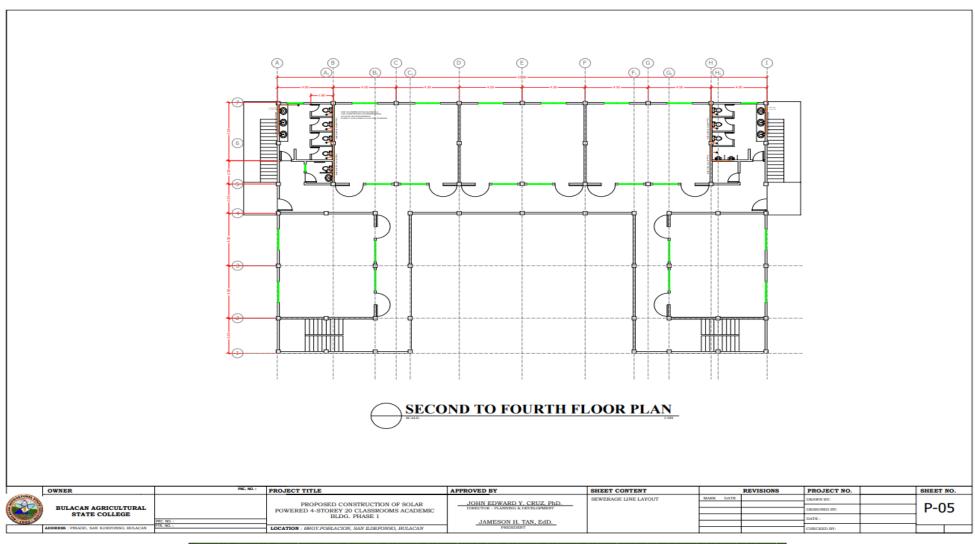




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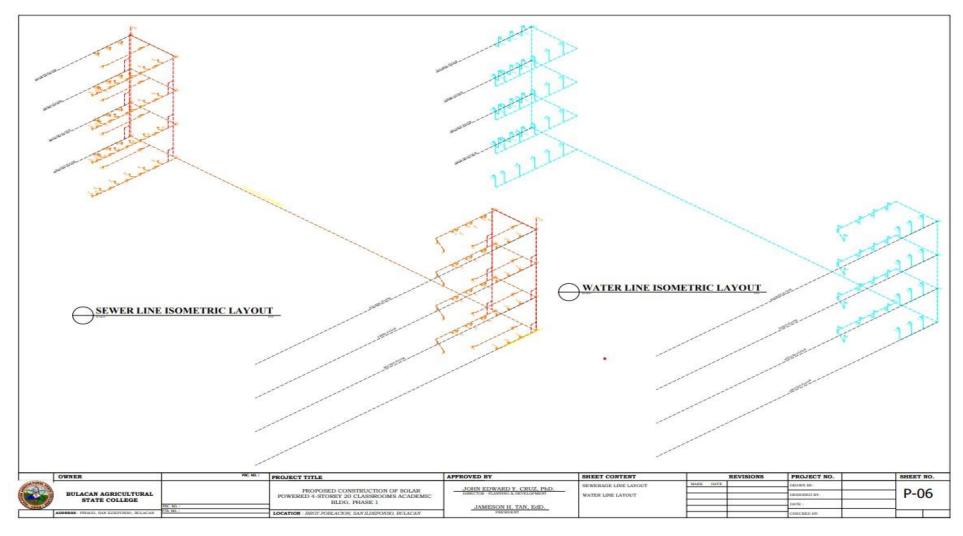




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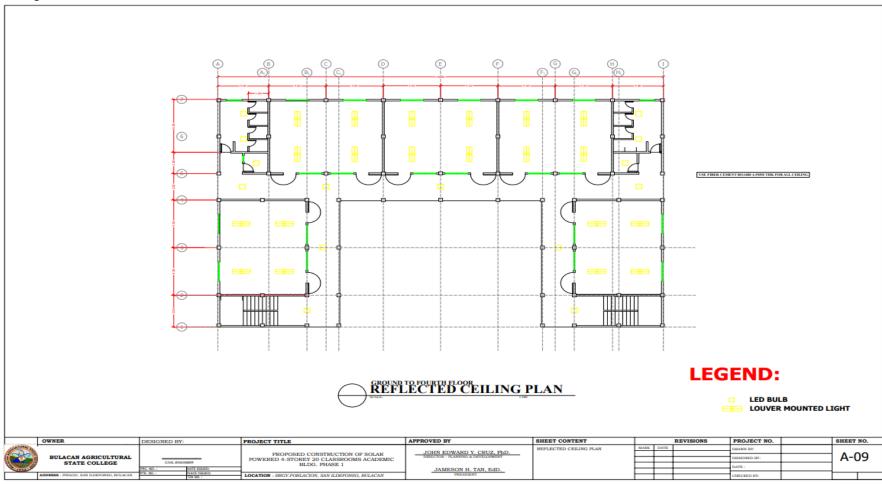


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Ceiling Finishes



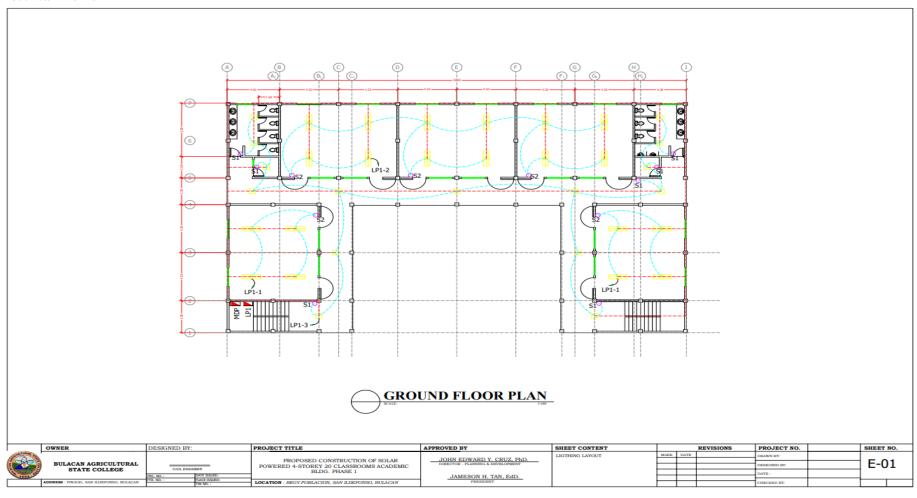


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Electrical Works



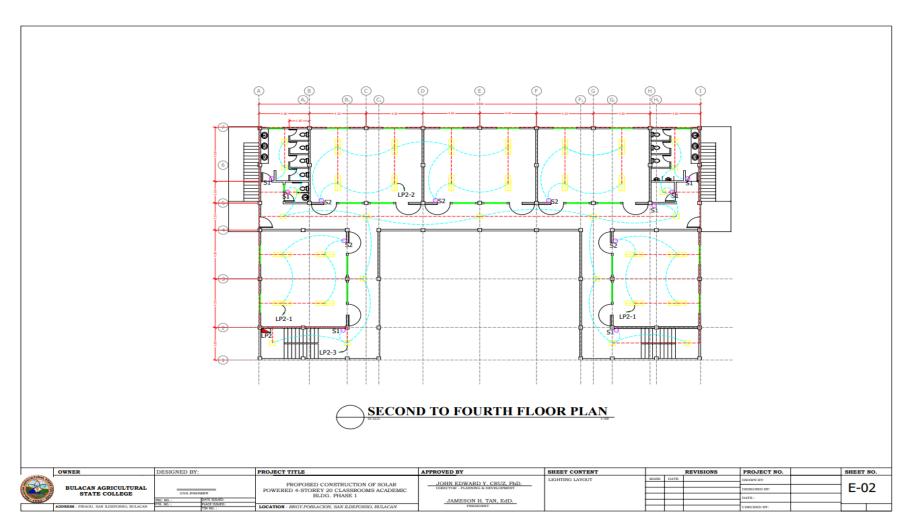
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GENERAL NOTES:

ALL ELECTRICAL INSTALLATIONS SHALL BE DONE IN WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (P.E.C.), NATIONAL BUILDING CODE OF THE PHILIPPINES, THE RULES & REGULATIONS OF BULGACA & THE REQUIREMENTS OF THE POWER

GROUNDING SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, ALI NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT FARMES OR ENLICOSINES SHALL BE CONNECTED TO EQUIPMENT GROUNDING SYSTEM WIRE WITH SOFT DRAWN COPPER WIRE A SUITABLE TERMINAL LIDIO.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORKS WITHIN THE AVAILABLE SPACE MINIMUM SIZE OF WIRE TO BE USED FOR POWER AND LIGHTING SHALL BE 2.0mm

LAYOUT SHOWN ON THE PLANS ARE DIAGRAMATIC AND SHALL WHEN NECESSARY BE ALTERED IN THE FIELD TO SUIT CONDITIONS AND LOCATION.

PULL BOXES SHALL BE PROVIDED WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON PLANS.

ALL ELECTRICAL MATERIALS TO BE USED SHALL BE NEW & APPROVED TYPE FOR THE

ALL WORKS SHALL BE DONE BY EXPERIENCED ELECTRICIANS AND UNDER SUPERVISION OF A

CONDUCT INSULATION TEST ON ALL WIRINGS, FIXTURES AND DEVICES INSTALLED AND COMPLETED BEFORE APPLYING FOWER, SUBMIT RECORDED MESSUREMENTS OF INSULATION TEST OF SERVICE ENTRANCE, FEDERS AND BRANCH CIRCUIT TESTED.

LEGEND:

☑ LED BULB

LOUVER MOUNTED LIGHT CONVENIENCE OUTLET

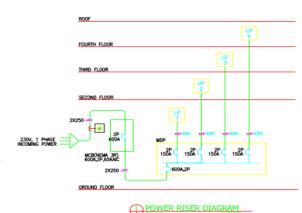
PANEL BOX AIR CONDITION OUTLET

SWITCH

S1 SINGLE SWITCH

S2 2 GANG SWITCH ---- OUTLET LINE

---- LIGHTING LINE ---- SWITCH LINE



P2 (TY	PICAL	тош	P3 & LP4)	(FILIS	MOUN	TED - NE	MA BE		MAIN: 150AT/200AF 2P, 250V, 10KAIC MCCB					
								WITH SOLID GROUND BUS.						
CKT. OUT			OTHER	VOLTS	VA.	AMP	CIRCUIT BRE			WIRES/CONDUITS				
NO.	LO.	C.O.	LOADS	10012	LOAD	LOAD	AT	AF	Р	Trining controller				
1	10			230	1000	4.35	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
2	12			230	1200	5.22	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
3	15			230	1500	6.52	20	100	2	8-3.5MM2 THHN IN 20MM DIA PVC CONDUIT				
4		6		230	3590	4.70	20	100	2	3-3.5MW2 THHN IN 20WM DIA PVC CONDUIT				
5		6		290	3090	4.70	20	100	2	3-3.5MIVE THEN IN 20VM DIA PVC CONDUIT				
6		6		230	3080	4.70	20	100	2	3-3.5MW2 THHN IN 20WM DIA PVC CONDUIT				
7		6		230	3090	4.70	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
8		6		230	3080	4.70	20	100	2	3-3.5MW2 THHN IN 20MM DIA PVC CONDUIT				
9			1HP ACU	230	2300	50.00	20	100	2	3-3.5MW2 THHN IN 20WM DIA PVC CONDUIT				
10			SHP ACU	230	2300	90.00	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
11			SHP ACU	230	2300	10.00	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
12			IHP ACU	230	2300	30.00	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
15			1HF ACU	250	2900	30.00	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
14			IHP ACU	230	2300	10.00	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
15			THP ACU	230	2300	10.00	20	1.00	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
16			1HP ACU	230	2300	90.00	20	100	2	2-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
17			SHP ACU	230	2300	30.00	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
18			IHP ACU	2.90	2900	10.00	20	100	2	3-3.5MW2 THHN IN 20VM DIA PVC CONDUIT				
19			SPARE	230	3000	4.35	20	100	2	EMPTY, 20VINI DIA PVC CONDUIT				
20			SPARE	230	1000	4.35	20	100	2	EMPTY, 20VIM DIA PVC CONDUIT				
					34100	148.26	_		_					

VIRING S	SCHEDULE			
YMBOL	NO. OF SETS	PHASE CONDUCTOR MM. SQ,	GROUND CONDUCTOR MM SQ,	CONDUIT SIZE MM DIA. INTERNAL DIA.
X3.5	1	2-3.5 THHN	3.5 THHN	20
X5.5	1	2-5.5 THHN	5.5 THHN	20
XB.0	1	2-8.0 THHN	5.5 THHN	20
X14	1	2-14 THHN	8.0 THHN	20
X60	1	2-60 THHN	14 THHN	50
2X250	1	3-250 THHN	30 THHN	80

мре								MAIN: 600AT/1000AF 2P, 250V, 14KAIC MCCB WITH SOLID GROUND BUS.					
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					WITH SOLID GROUND BUS.							
FEEDER	LOAD SERVED	VOLTS	VA	AMP	CIRCU	JIT BRE	AKER	WIRES/CONDUITS					
NO	LOWD SERVED	VOLIS	LOAD	LOAD	AT	AF	P	WINESYCONDOTTS					
1	LPS	230	13480	145.57	300	100	2	2-GOMPUS THINN IS 1-14MINUS THINN [IS] IN SOMEOID A PUC					
3	LP2	280	34100	148.26	50	100	2	2 60MWZ THWN 8.1-14MWZ THWN [6] IN 50MW DIA PVC					
4	LFS	230	34100	148.26	50	100	2	2-60MIVE THWN & 1-14MIVE THWN [G] IN 50MIN DIA PVC					
5	LP4	250	34100	148.26	50	100	2	2-BOMING THWN & 1-14MING THWN (G) IN SOMM DIA PVC					
6	SPACE												
7	SPACE												
TOTAL			135780	590.35									
ADMIN L	OAD + CAFE LOAD	,					_						
FULL LOA	D CURRENT AT 8	0% DEM.	FACTOR:										
FL = (590	35) X 0.80 = 472	28 A											
USE: 2 SE	TS OF 3-200MM2	THWN 8	1-30MM	2 THWN ((G)) EAC	DH SET I	N 806	AM DIA, RSC.					

IP1			(FLUSH MOUNT)	D - NEM	MAIN: 150AT/200AF 2P, 250V, 10KAIC MCCB						
										SOLID GROUND BUS.	
CKT. OUTLETS			OTHER LOADS	VOLTS	VA	AMP	CIRCU			WIRES/CONDUITS	
NO.	L.O.	C.O.	OTTIEN LUMBS	*****	LOAD	LOAD	AT	AF	P	WINESPERMENTS	
1	10			290	1000	4.35	20	100	2	3-3.5VM2 THIN IN 20MM DIA PVC CONDUIT	
2	12			230	1200	5.22	20	100	2	3-3.5MM2 THIRN IN 20MM DIA PVC CONDUIT	
3	15			290	1500	6.52	20	100	2	3-3.5VM2 THIN IN 20MM DIA PVC CONDUIT	
4		6		250	1080	4.70	20	100	2	3-3.5WM2 THEN IN 20MM DIA PVC CONDUIT	
5		6		230	1080	4.70	20	100	2	3-3.5WM2 THRN IN 20MM DIA PVC CONDUIT	
6		6		230	1000	4.70	20	100	2	3-3:SVIM2 THINN IN 20MM DIA PVC CONDUIT	
7		6		230	1080	4.70	20	200	2	3-3:SWM2 THINN IN 20MM DIA PVC CONDUIT	
8		- 6		230	1080	4.70	20	300	2	3-3.5MM2 THEN IN 20MM DIA PVC CONDUIT	
9			SHP ACU	290	1840	8.00	20	100	2	3-3.5WM2 THHN IN 20MM DIA PVC CONDUIT	
10			SHP ACU	230	1840	8.00	20	100	2	3-3.5WM2 THHN IN 20MM DIA PVC CONDUIT	
11			SHP ACU	230	1840	8.00	20	200	2	3-3:SVM2 THHN IN 20MM DIA PVC CONDUIT	
12	_		SHP ACU	230	1840	8.00	20	200	2	3-3:SWM2 THHN IN 20MM DIA PVC CONDUIT	
13	_		SHP ACU	230	1840	8.00	20	100	2	3-3.5WM2 THHN IN 20MM DIA PVC CONDUIT	
14			SHP ACU	290	1840	8.00	20	100	2	3-3.5MM2 THHN IN 20MM DIA PVC CONDUIT	
15			SHP ACU	230	1840	8.00	20	100	2	3-3 SWM2 THHN IN 20MM DIA PVC CONDUIT	
16	_		SHP ACU	230	1840	8.00	20	100	2	3-3.5VM2 THHN IN 20MM DIA PVC CONDUIT	
17	_		SHP ACU	230	1840	8.00	20	100	2	3-3.5WM2 THHN IN 20MM DIA PVC CONDUIT	
16	_		SHP ACU	230	1840	8.00	20	100	2	3-3.5WM2 THHN IN 20MM DIA PVC CONDUIT	
19	_		1.5HP BOOSTER PUMP	230	2300	30.00	20	200	2	3-3:SWM2 THHN IN 20MM DIA PVC CONDUIT	
20	_		SPARE	230	1540	8.00	20	100	2	EMPTY, 20MM DIA PVC CONDUIT	
21	_		SPARE	250	1540	8.00	20	100	2	EMPTY, 20MM DIA PVC CONDUIT	
TOT	W	_			33480	145.57		_			
ULLU	DADO	URRE	NT AT 80% DEM, FACT	OR:							
FL = [2	45.57	08.0	+ 25%(10) = 118.95A								
JSE: 2-	GOMN	A2 TH	WN AND 1-14NW2TH	WN (G) IF	4 50MM	DIA, PVC.					

	OWNER	DESIGNED BY:		DESIGNED BY: PROJECT TITLE AS			APPROVED BY SHEET CONTENT REVISIONS		REVISIONS			PROJECT NO.	SHEET NO.	
DATE OF THE PARTY				PROPOSED CONSTRUCTION OF SOLAR		GENERAL NOTES LEGEND		DATE		DRAWN BY:				
	BULACAN AGRICULTURAL STATE COLLEGE PRC. NO.: SAME ESSARD:			POWERED 4-STOREY 20 CLASSROOMS ACADEMIC		POWER RISER DIAGRAM			DESIGNED BY:	E-05				
			DATE ISSUED:	BLDG. PHASE 1	JAMESON H. TAN, EdD.					DATE:]	,		
	ADDRESS: PINAOD, SAN ILDEPONSO, BULACAN	PTR. NO.:	PLACE ISSUED: TIN NO.:	LOCATION: BRGY.POBLACION, SAN ILDEFONSO, BULACAN	PRESIDENT					CHECKED BY:				