

Legazpi Premium

Development Corporation

PTR NO.:

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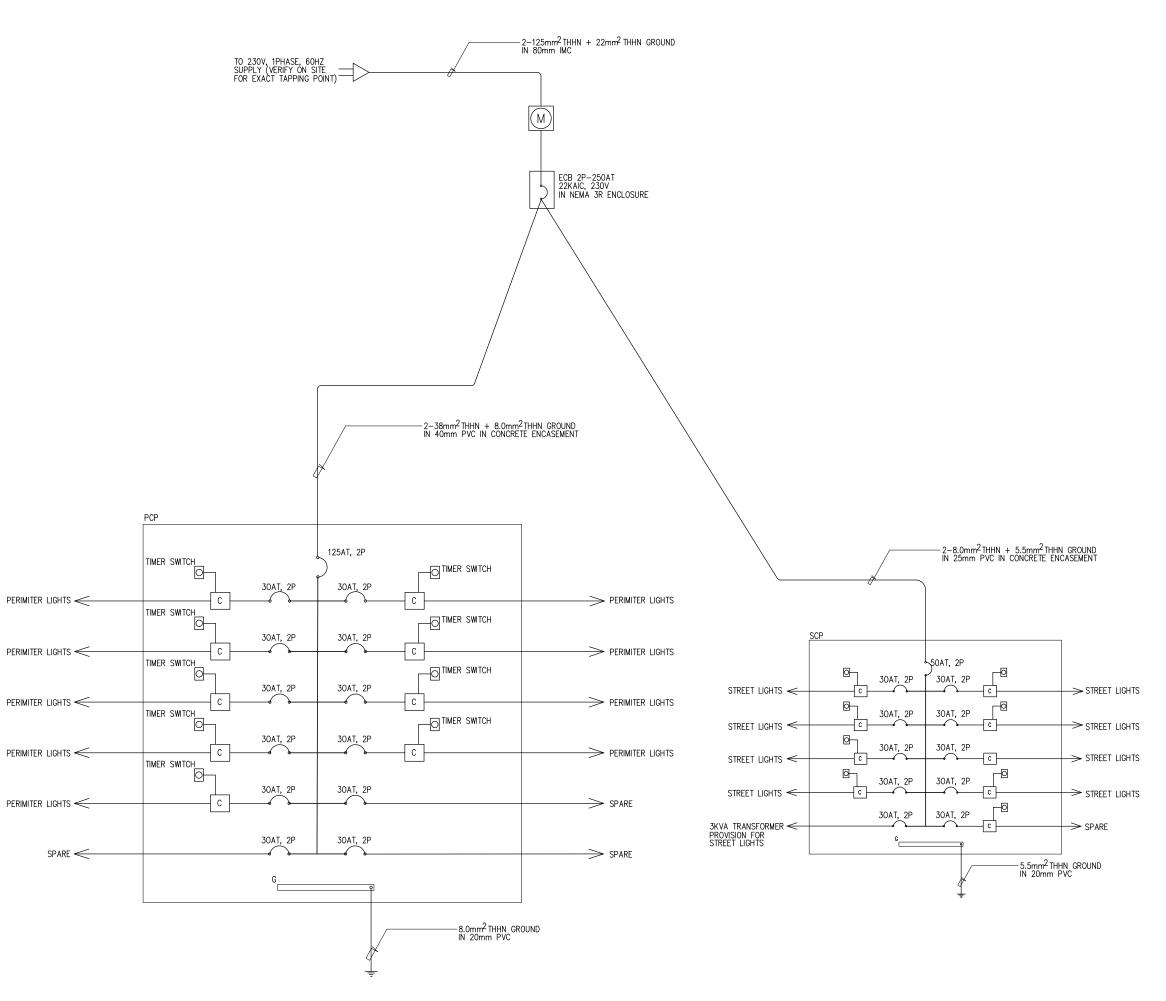
TIN NO.: 146-594-412 ISSUED AT: QUEZON CITY

01-03-17

LOCATION: MIMAROPA REGION

CAMPUS ODIONGAN, ROMBLON

APPENDIX E



POWER DIAGRAM

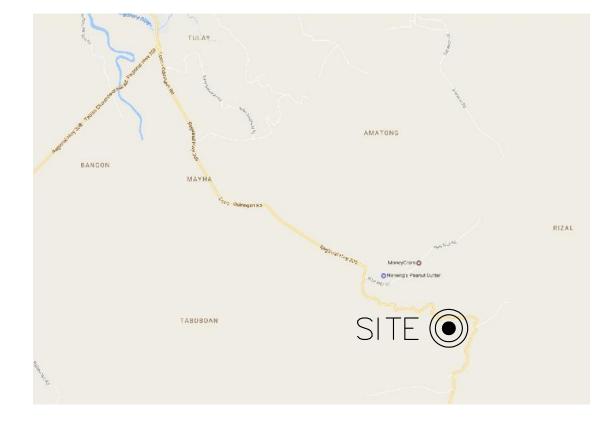
	BREAKER: 2P-125AT/250AF	COMPUTA	TION:										
KAIC RATING: 22KAIC MAIN WIRES: 2-38mm ² THHN + 1-8.0mm ² THNN GROUND			$l_b = 95.1$	7 AMPS									
MAIN CONDUIT:	40mm DIA. RSC CONDUIT												
	PCP (PERIMETER LIGHTS CONTROL	PANEL)			CIR	CUIT	BRE	AKER		WIRES		CONI	JUIT
CIRCUIT NO.	LOAD DESCRIPTION	VOLTAGE	AMPERE	VOLT-AMPERE	Р	AT	ΑF	KAIC	PHASE	GROUND	TYPE	SIZE	TYPE
1	PERIMETER LIGHTS (VIA 30A CONTACTOR & TIMER SWITCH)	230	10.00	2300	2	30	100	10	2–14mm ²	1-8.0mm ²	NHHT	32	PVC
2	PERIMETER LIGHTS (VIA 30A CONTACTOR & TIMER SWITCH)	230	10.00	2300	2	30	100	10	2–14mm ²	1-8.0mm ²	THHN	32	PVC
3	PERIMETER LIGHTS (VIA 30A CONTACTOR & TIMER SWITCH)	230	10.86	2500	2	30	100	10	2–14mm ²	1-8.0mm ²	THHN	32	PVC
4	PERIMETER LIGHTS (VIA 30A CONTACTOR & TIMER SWITCH)	230	10.43	2400	2	30	100	10	2–14mm ²	1-8.0mm ²	THHN	32	PVC
5	PERIMETER LIGHTS (VIA 30A CONTACTOR & TIMER SWITCH)	230	10.43	2400	2	30	100	10	2–14mm ²	1-8.0mm ²	THHN	32	PVC
6	PERIMETER LIGHTS (VIA 30A CONTACTOR & TIMER SWITCH)	230	5.65	1300	2	30	100	10	2–14mm ²	1-8.0mm ²	THHN	32	PVC
7	PERIMETER LIGHTS (VIA 30A CONTACTOR & TIMER SWITCH)	230	10.43	2400	2	30	100	10	2–14mm 2	1-8.0mm ²	THHN	32	PVC
8	PERIMETER LIGHTS (VIA 30A CONTACTOR & TIMER SWITCH)	230	10.43	2400	2	30	100	10	2–14mm ²	1-8.0mm ²	THHN	32	PVC
9	PERIMETER LIGHTS (VIA 30A CONTACTOR & TIMER SWITCH)	230	10.43	2400	2	30	100	10	2–14mm ²	1-8.0mm ²	THHN	32	PVC
10	SPARE	230	2.17	500	2	30	100	10					
11	SPARE	230	2.17	500	2	30	100	10					
12	SPARE	230	2.17	500	2	30	100	10					
		TOTAL	95.17	21900					•				

MAIN CIRCUIT BREAKER: 2P-50AT/250AF	COMPUTATION:
KAIC RATING: 10KAIC MAIN WIRES: 2-8.0mm ² THHN + 1-5.5mm ² THNN GROUND	$l_b = 34.04 \text{ AMPS}$
MAIN WIRES: 2-8.0mm ² THHN + 1-5.5mm ² THNN GROUND	р
MAIN CONDUIT: 25mm DIA. IMC CONDUIT	

	SCP (STREETLIGHT CONTROL PANEL) CIRCUIT BREAK						AKER		CONDUIT				
CIRCUIT NO.	LOAD DESCRIPTION	VOLTAGE	AMPERE	VOLT-AMPERE	Р	ΑТ	AF	KAIC	PHASE	GROUND	TYPE	SIZE	TYPE
1	STREET LIGHTS	230	2.35	540	2	30	100	10	2-8.0mm ²	1-5.5mm ²	THHN	32	PVC
2	STREET LIGHTS	230	2.35	540	2	30	100	10	2-8.0mm ²	1-5.5mm ²	THHN	32	PVC
3	STREET LIGHTS	230	2.35	540	2	30	100	10	2-8.0mm ²	1-5.5mm ²	THHN	32	PVC
4	STREET LIGHTS	230	2.35	540	2	30	100	10	$2-8.0 \text{mm}^2$	1-5.5mm ²	THHN	32	PVC
5	STREET LIGHTS	230	2.74	630	2	30	100	10	2-8.0mm ²	1-5.5mm ²	THHN	32	PVC
6	STREET LIGHTS	230	2.17	500	2	30	100	10	2-8.0mm ²	1-5.5mm ²	THHN	32	PVC
7	STREET LIGHTS	230	2.35	540	2	30	100	10	2-8.0mm ²	1-5.5mm ²	THHN	32	PVC
8	STREET LIGHTS	230	2.17	500	2	30	100	10	$2-8.0 \text{mm}^2$	1-5.5mm ²	THHN	32	PVC
9	PROVISION FOR 3KVA TRANSFORMER	230	13.04	3000	2	30	100	10	2-8.0mm ²	1-5.5mm ²	THHN	32	PVC
10	SPARE	230	2.17	500	2	30	100	10					
		TOTAL	34.04	7830									

MAIN CIRCUIT BREAKE	R: 2P-200AT/250AF	COMPUTA	TION:									
KAIC RATING: 22KAIC MAIN WRES: 2-80mm ² THHN + 1-14mm ² THNN GROUND MAIN CONDUIT: 65mm DIA. PVC CONDUIT												
	ECB (ENCLOSED CIRCUIT BR	EAKER)			CIR	CUIT BE	REAKER		WIRES		CONI	DUIT
CIRCUIT NO.	LOAD DESCRIPTION	VOLTAGE	AMPERE	VOLT-AMPERE	Р	AT AI	KAIC	PHASE	GROUND	TYPE	SIZE	TYPE
1	PCP	230	95.17	21900	2P-	LUGS	ONLY	2-38mm ²	1-8.0mm ²	THHN	40	PVC
2	SCP	230	34.04	7830	2P-	LUGS	ONLY	2-8.0mm ²	1-5.5mm ²	THHN	25	PVC
<u> </u>		TOTAL	129.21	29730								







-1/	SCALE	NIS
		FOR CONSTRUCTION

MELISA R. RAMIREZ

WITHOUT THE WRITTEN CONSENT OF THE

ARCHITECT. -R.A. 545

AUTHORIZED MANAGER OFFICER DATE **ENGINEER:** PROJECT TITLE: APPROVED: DESIGNED BY: ACE 05/19/17 REVISIONS SHEET CONTENTS SHEET NO. SITE DEVELOPMENT ENCODED BY: ACE 05/19/17 **AS SHOWN** REPUBLIC OF THE PHILIPPINES (Development of Campus Master CHECKED BY: ASC 05/19/17 DEPARTMENT OF SCIENCE AND TECHNOLOGY ARMANDO S. CALAGUAS Plan, Construction of Road PHILIPPINE SCIENCE HIGH SCHOOL PROFESSIONAL ELECTRICAL ENGINEER APPROVED BY: ASC 05/19/17 MIMAROPA REGION CAMPUS Network) EDWARD C. ALBARACIN PRC NO.: 2375 ISSUED ON: DATE ISSUED: 06/01/17 09-24-90 THIS DOCUMENT IS AN INSTRUMENT OF BRGY. RIZAL, ODIONGAN, ROMBLON PROFESSIONAL SERVICE AND AS SUCH MAY NOT BE REPRODUCED IN WHOLE OR IN PART

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