

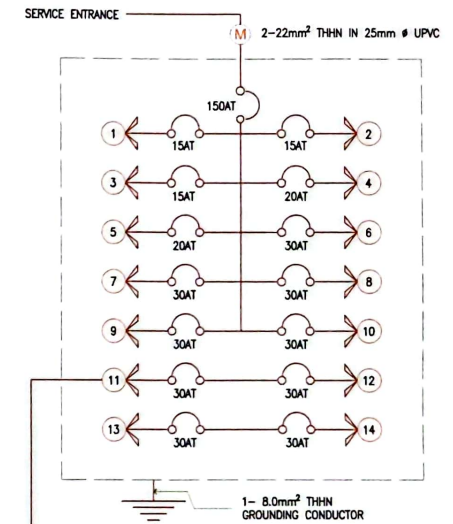
EXISTING PANEL BOARD 1 (FOR REWIRING)
LOAD SCHEDULE AND COMPUTATION

CKT NO.	L.O.	C.O.	NO. OF SWITCHES			LOAD DESCRIPTION	WATTS	AMP	VOLTS	CKT PROTECTION	NO. OF POLE	SIZE OF WIRE	CONDUIT SIZE
			S	S ₂	S ₃								
1	7					LIGHTING OUTLET AT 100W	700	3.04	230V	15 AT	2	2 - 3.5mm THWN	20mm Ø PVC PIPE
2	14					LIGHTING OUTLET AT 100W	1400	6.09	230V	15 AT	2	2 - 3.5mm THWN	20mm Ø PVC PIPE
3	9					LIGHTING OUTLET AT 100W	900	3.91	230V	15 AT	2	2 - 3.5mm THWN	20mm Ø PVC PIPE
4		9				CONVENIENCE OUTLET AT 360W	3240	14.09	230V	20 AT	2	2 - 3.5mm THWN	20mm Ø PVC PIPE
5		10				CONVENIENCE OUTLET AT 360W	3600	15.65	230V	20 AT	2	2 - 3.5mm THWN	20mm Ø PVC PIPE
6						RANGE	1500	6.52	230V	30 AT	2	2 - 5.5mm THWN	20mm Ø PVC PIPE
7						REF	800	3.48	230V	30 AT	2	2 - 5.5mm THWN	20mm Ø PVC PIPE
8						AIR-CONDITIONING UNIT	1400	6.09	230V	30 AT	2	2 - 5.5mm THWN	20mm Ø PVC PIPE
9						AIR-CONDITIONING UNIT	1400	6.09	230V	30 AT	2	2 - 5.5mm THWN	20mm Ø PVC PIPE
10						AIR-CONDITIONING UNIT	1400	6.09	230V	30 AT	2	2 - 5.5mm THWN	20mm Ø PVC PIPE
11						LIGHTING POSTS	3840	16.70	230V	30 AT	2	2 - 5.5mm THWN	20mm Ø PVC PIPE
12						SPARE	1000	4.35	230V	30 AT	2	2 - 5.5mm THWN	20mm Ø PVC PIPE
13						SPARE	1000	4.35	230V	30 AT	2	2 - 5.5mm THWN	20mm Ø PVC PIPE
14						SPARE	1000	4.35	230V	30 AT	2	2 - 5.5mm THWN	20mm Ø PVC PIPE
TOTAL							23,180W	100.80	230V				

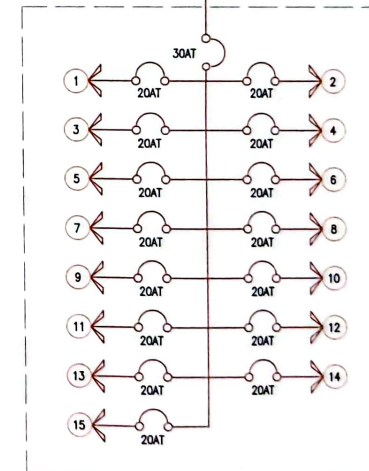
COMPUTATION: IT (TOTAL CURRENT) = 100.80A x DF (DEMAND FACTOR) 125% = 126
USE 2 - 50mm² THW IN 40mm Ø PVC
MAIN BREAKER = 150AMP

ELECTRICAL LEGEND:

MARK	DESCRIPTION
	LIGHTING/POWER PANEL BOX
	DUPLEX CONVENIENCE OUTLET
	CIRCUIT HOMERUN
S ₁ S ₂	SWITCHES
	PIN LIGHT FIXTURE
	AC



SCHEMATIC DIAGRAM



PORT LIGHTING SYSTEM
SCHEMATIC DIAGRAM

 PHILIPPINE PORTS AUTHORITY PORT MANAGEMENT OFFICE OF BICOL REGIONAL GOVERNMENT CENTER, RAWIS, LEGAZPI CITY 4500	PROJECT TITLE MAINTENANCE OF PORT LIGHTING SYSTEM, TERMINAL MANAGEMENT OFFICE BUILDING, MOORING BOLLARD, AND GATE PORT OF SAN ANDRES, CATANDUANES				SHEET NO. <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">4</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">9</div> </div> OCT. 23, 2023
	PREPARED <div style="text-align: center;"> JEAN PAULA F. DE LOS SANTOS ARCHITECT II </div>	CHECKED/REVIEWED <div style="text-align: center;"> CHRISTOPHER M. CADAG SUPERVISING ENGINEER A </div>	RECOMMENDING APPROVAL <div style="text-align: center;"> JOHN S. DE LOS SANTOS ACTING DIVISION MANAGER A, ESD </div>	APPROVED <div style="text-align: center;"> MA. MAGNOLIA SINSON-REQUEJO PORT MANAGER </div>	