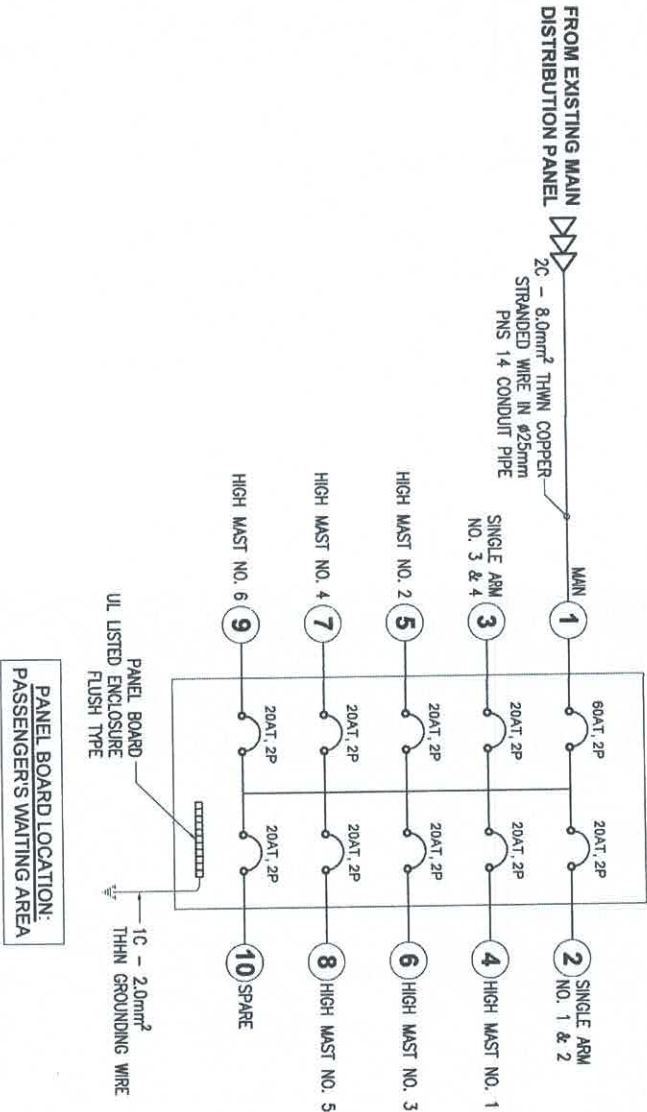


SCHEDULE OF LOADS

LOAD DISTRIBUTION PANEL																	
LOCATION: PASSENGER'S WAITING AREA - PORT LIGHTING SYSTEM CONNECTIONS																	
CKT NO.	C.B. RATING					CONNECTED LOADS					FEEDER					RACEWAY	
	VOLTS	AT	AF	POLE	LO	CO	SPO	EML	OTHERS	DESCRIPTION OF LOADS	VA	AMPS	WIRE	SIZE (mm2)	TYPE	SIZE (mm2)	CONDUIT
2	230	20	50	2	2					SINGLE ARM NO.1, 2, AND 3	500	2.17	2	5.5	THHN	50	UPVC
3	230	20	50	2	2					SINGLE ARM NO. 4	500	2.17	2	5.5	THHN	25	UPVC
4	230	20	50	2	4					HIGH MAST NO. 1	1600	6.96	2	5.5	THHN	50	UPVC
5	230	20	50	2	4					HIGH MAST NO. 2	1600	6.96	2	5.5	THHN	50	UPVC
6	230	20	50	2	4					HIGH MAST NO. 3	1600	6.96	2	5.5	THHN	50	UPVC
7	230	20	50	2	4					HIGH MAST NO. 4	1600	6.96	2	5.5	THHN	50	UPVC
8	230	20	50	2	4					HIGH MAST NO. 5	1600	6.96	2	5.5	THHN	50	UPVC
9	230	20	50	2	4					HIGH MAST NO. 6	1600	6.96	2	5.5	THHN	50	UPVC
10	230	20	50	2					1	SPARE	1000	4.35	2	3.5	THHN	25	UPVC
TOTAL	230	60	75	3	28	0	0	0	1	MAIN	11600	50.45	3	8.0 - 2.0	THWN	25	UPVC

SEPARATE CONDUIT LINE
ALL WIRINGS ARE INTEGRATED INTO ONE (1) CONDUIT PIPE ONLY (REFER TO UNDERGROUND DUCT BANK)

COMPUTATION OF CONNECTED LOADS	
COMPUTATION:	$I_t = 63.06$ AMPERES
FOR SUB-PROTECTION DEVICE	USE = 60AT, 75AF, 2-POLE 230 VOLTS 10 KMC (MIN.) BOLT-ON TYPE MCCB
FOR SUB-FEEDER CONDUCTOR	USE = 2C - 8.0mm ² THWN COPPER STRANDED WIRE IN #25mm PMS 14 CONDUIT PIPE 1C - 2.0mm ² THHN GROUNDING WIRE



PANEL BOARD LOCATION:
PASSENGER'S WAITING AREA

1 SINGLE LINE DIAGRAM
SCALE NTS

PROJECT TITLE

EMERGENCY MAINTENANCE OF SEPTIC VAULT AND PORT LIGHTING SYSTEM

SHEET NO.



PORT MANAGEMENT OFFICE OF BICOL
REGIONAL GOVERNMENT CENTER
RMM, LEGAZPI CITY 4300

PREPARED BY

AGAPITO L. TALAY, uap

CHECKED/REVIEWED BY

CHRISTOPHER M. CADAG

RECOMMENDING APPROVAL

JOHN S. DE LOS SANTOS

APPROVED

MA. MAGNOLIA SINSON-REYES

PORT MANAGER

AUGUST 14, 2025