

1 ELECTRICAL POWER RISER

NO SCALE

RISER DIAGRAM NOTES:

- PAD MOUNTED TRANSFORMER BY UTILITY.
- SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C.. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK. IF RUN LENGTH EXCEEDS 150', CONTACT ENGINEER PRIOR TO PURCHASING MATERIAL OR BEGINNING WORK.
- #8 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
- 100A METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
- (4)#4 CU, 1" CONDUIT.
- PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
- PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
- UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.

GENERAL NOTES - THIS SHEET

- FINAL CONNECTION TO ALL EQUIPMENT/FURNITURE BY E.C..

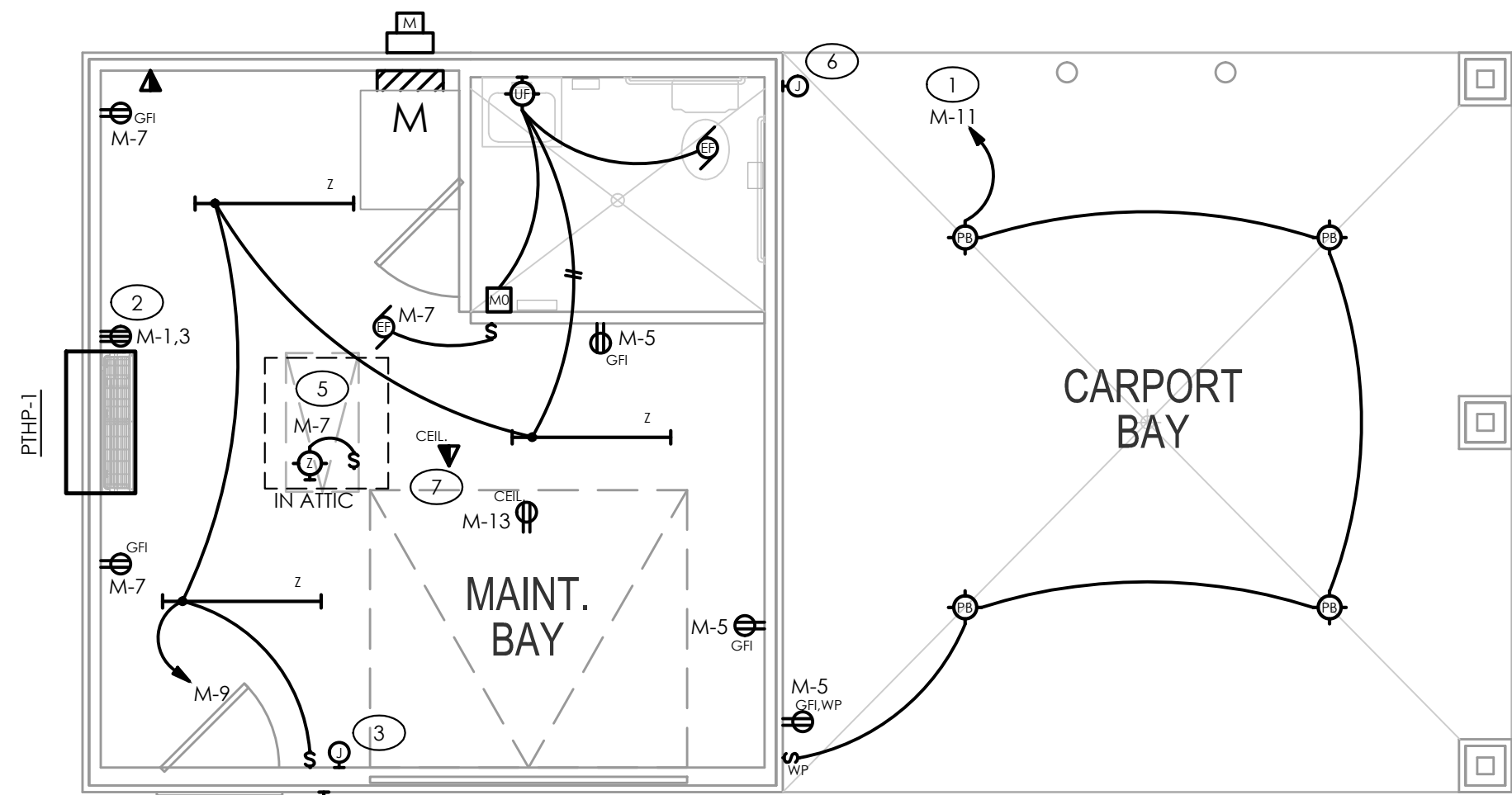
TAGGED NOTES - THIS SHEET

- LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. SEE PANEL SCHEDULE.
- PROVIDE NEMA4-20R RECEPTACLE FOR PTAC UNIT. COORDINATE EXACT CONNECTION TYPE WITH M.C..
- PROVIDE JUNCTION BOX AND 1/2" CONDUIT TO GARAGE DOOR OPENER FOR CONTROLS. PROVIDE PULL WIRE. COORDINATE W/ EQUIPMENT SUPPLIER AND OWNER.
- PROVIDE POWER RECEPTACLE AT CEILING FOR GARAGE DOOR OPENER. COORDINATE EXACT LOCATION W/ OWNER AND EQUIPMENT SUPPLIER.
- PROVIDE SWITCHED LIGHT FIXTURE IN ATTIC. LOCATE SWITCH AT ATTIC ACCESS.
- PROVIDE JUNCTION BOX AND CONDUIT FOR SECURITY CAMERA. COORDINATE EXACT BOX LOCATION AND CONDUIT TERMINATION POINTS WITH G.C. AND LOW VOLTAGE CONTRACTOR.
- PROVIDE DATA OUTLET FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR.

PANEL M LOAD SUMMARY				
LOAD TYPE		kVA CONN.	DEM. FACT.	kVA DEM.
LOADS ON 60 AMP MCB				
LIGHTS (CONN. LOAD)		0.4	1.25	0.5
RECEPTACLES	1st 10 kVA	1.0	1.0	1.0
	REMAINDER	0.0	0.5	0.0
HVAC & R	ELEC HEAT	3.0	1.0	3.0
	LARGEST MOTOR	0.0	1.25	0.0
	REMAINDER	0.0	1.0	0.0
GARAGE DOOR		0.8	1.25	1.0
TOTALS		5.2		5.5
TOTAL AMPS @ 208 V 3 PHASE		15.3		

PANEL: M												3 PHASE, 4 WIRE
VOLTAGE: 208Y/120V												SURFACE MOUNTED
AMPS: 60-MCB												NEMA 1
LOAD PER PHASE												
-DESCRIPTION-	POLE	WIRE SIZE	BK SIZE	CKT #	A	B	C	CKT #	BK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
PTAC UNIT	2	12	20	3	1.6	0		2	20	-	1	SPARE
REC: GARAGE, CARPORT	1	12	20	5			0.4	4	20	-	1	SPARE
REC: MAINT. BAY	1	12	20	7	0.6	0		8	20	-	1	SPARE
LTS: INTERIOR	1	12	20	9		0.2	0	10	-	-	1	SPARE
LTS: EXTERIOR	1	12	20	11			0.2	12	-	-	1	SPARE
GARAGE DOOR	1	12	20	13	0.8	0		14	-	-	1	SPARE
SPACE	1	-	-	15		0	0	16	-	-	1	SPARE
SPACE	1	-	-	17			0	18	-	-	1	SPARE
TOTAL CONNECTED kVA:					5.4			DEMAND kVA: 5.5				
PANEL RMS SYM. AMPS:					SEE RISER			DEMAND AMPS: 15.3				

- PANEL SHALL BE SERVICE ENTRANCE RATED EQUAL TO SQUARE D NO.
- PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
- PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.
- GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.



1 ELECTRICAL MAINTENANCE PLAN

SCALE: 1/4" = 1'-0"



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Oasis at Surfside - Phase II

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PROGRESS DATE:	11/17/21	ISSUE DATE:		PROJECT NO:	002221
REVISIONS	NUMBER	DATE	INITIALS	DRAWN BY:	NHV
				CHECKED BY:	ZLT
SHEET TITLE:					ELECTRICAL MAINTENANCE PLAN
SHEET NUMBER:					E5.10