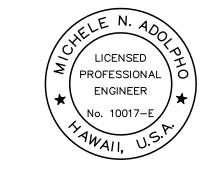
				ELECTRICAL SYMBOL LIST
	G HEIGHT LOOR TO			NDICATED ON PLAN)
TOP	<u>¢</u>	SYME EXISTING	NEW	DESCRIPTION
101	<u>¥</u>			LED LUMINAIRE, CEILING MOUNTED (NUMERAL IN CIRCLE CORRESPONDS TO LUMINAIRE SCHEDULE)
				LED LUMINAIRE, CEILING MOUNTED WITH EMERGENCY BATTERY PACK (NUMERAL IN CIRCLE CORRESPONDS TO LUMINAIRE SCHEDULE)
		() н	① ¹	LUMINAIRE, WALL MOUNTED
	8'-0"		⊗ H	EXIT SIGN, WALL MOUNTED
			€	EXIT SIGN, STEM MOUNTED
	46"	(+)	\$ ^a	LIGHT SWITCH, FLUSH MOUNTED (LETTER INDICATES LUMINAIRES CONTROLLED)
	46"		H	OCCUPANCY SENSOR LIGHT SWITCH (LETTER INDICATES LUMINAIRES CONTROLLED)
	46"		S TH	LIGHTING CONTROL SYSTEM SWITCH (LETTER INDICATES LUMINAIRES CONTROLLED)
			\$ 2	2 POLE SWITCH, 1 HP
			0	OCCUPANCY SENSOR, CEILING MOUNTED
			RC	DIGITAL LIGHTING ROOM CONTROLLER
	18"	(=)	€	RECEPTACLE, DUPLEX, GROUNDING TYPE, 125V, NEMA 5-20R
	18"		-	RECEPTACLE, DUPLEX, GFCI-TYPE, 125V, NEMA 5-20R
			+	RECEPTACLE, QUADRUPLEX, NEMA 5-20R
			M	SYSTEMS FURNITURE EQUIPMENT CONNECTION
				FLUSH FLOOR OUTLET
		—— е ——		CONDUIT CONCEALED IN CEILING OR WALLS, HASHMARKS INDICATE QUANTITY OF CURRENT CARRYING WIRE WITHIN, NO HASHMARKS INDICATE 2 CURRENT CARRYING WIRES WITHIN, PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH GENERAL ELECTRICAL NOTE 3
		e	#	SURFACE MOUNTED RACEWAY, PROVIDE STRAP AT INTERVAL NOT EXCEEDING 8'-0", HASHMARKS INDICATE QUANTITY OF CURRENT CARRYING WIRES WITHIN, NO HASHMARKS INDICATE 2 CURRENT CARRYING WIRES WITHIN, PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH GENERAL ELECTRICAL NOTE 3
		€ e	A-1,3	HOMERUN ARROW TO PANELBOARD. LETTER INDICATES PANELBOARD, NUMBERS INDICATES CIRCUITS, HASHMARKS INDICATE QUANTITY OF CURRENT CARRYING WIRES WITHIN, NO HASHMARKS INDICATE 2 CURRENT CARRYING WIRES WITHIN, PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH GENERAL ELECTRICAL NOTE 3
		— - — e —		UNDERGROUND DUCTLINE
		(J)	(J)	JUNCTION BOX, CEILING MOUNTED
		(J)H	ÜН	JUNCTION BOX, WALL MOUNTED
			J	JUNCTION BOX, LARGE, CEILING MOUNTED
			JH	JUNCTION BOX, LARGE, WALL MOUNTED
				TRANSFORMER, PAD MOUNTED
5'-0"		L[]	4	DISCONNECT SWITCH
6'-0"		[===]		PANELBOARD
		/***{]	~~-	EQUIPMENT TERMINATION WITH FLEXIBLE CONDUIT WHIP
	18"	\Diamond	\Diamond	INFORMATION OUTLET, VERTICALLY ORIENTED, FLUSH WALL MOUNTED, 4 11/16" x 2 1/8" DEEP OUTLET BOX WITH DOUBLE-GANG REDUCER AND DOUBLE GANG COVER PLATE
			X	DENOTES DEMOLITION/REMOVAL
			+42"	DENOTES 42" ABOVE FINISHED FLOOR OR GRADE
			ATS	AUTOMATIC TRANSFER SWITCH
			FO	FIBER OPTIC
			GND	GROUND
			KVA	KILOVOLT-AMPERE
			KW	KILOWATT
			MECO	MAUI ELECTRIC COMPANY
			WP	WEATHERPROOF
			1)	NOTE INDICATOR
			1 E002	DETAIL INDICATOR: TOP HALF DENOTES DETAIL NUMBER, BOTTOM HALF DENOTES SHEET NUMBER

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-ART18-01	2022	58	80

GENERAL ELECTRICAL NOTES:

- 1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE, AND ALL LOCAL RULES AND REGULATIONS.
- 2. THE CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS AND THE EXTENT OF REMOVAL, RELOCATION, RECONNECTION AND/OR NEW WORK PRIOR TO BIDDING. BID SUBMISSION SHALL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE AND RESOLVED ALL DISCREPANCIES AND QUESTIONS AND NO EXTRA PAYMENT WILL BE AUTHORIZED FOR WORK MADE NECESSARY BY THE CONTRACTOR'S FAILURE TO DO SO.
- 3. ALL CIRCUITS SHALL INCLUDE AN INSULATED GREEN GROUNDING CONDUCTOR, SIZED PER THE NATIONAL ELECTRICAL CODE. THIS CONDUCTOR SHALL BE CARRIED IN ALL RACEWAYS AND SHALL BE ATTACHED TO THE DEVICE OR EQUIPMENT HOUSING USING A SUITABLE GROUNDING LUG.
- 4. COMMON NEUTRAL CONDUCTORS SHALL NOT BE USED FOR MULTI-WIRE BRANCH CIRCUITS INSTALLED IN A COMMON RACEWAY. PROVIDE DEDICATED CONDUCTORS FOR EACH INDIVIDUAL CIRCUIT. PROVIDE COLOR CODING OF THE DIFFERENT NEUTRAL CONDUCTORS IN ACCORDANCE WITH THE NEC.
- 5. WORK INCIDENTAL TO THE CONTRACT AND NECESSARY TO COMPLETE THE PROJECT, ALTHOUGH NOT SPECIFICALLY REFERRED TO ON THE CONTRACT DOCUMENTS, SHALL BE FURNISHED AND PERFORMED BY THE CONTRACTOR.
- 6. IN PERFORMING ALL WORK, THE CONTRACTOR SHALL EXERCISE DUE CARE AND CAUTION NECESSARY TO AVOID ANY DAMAGE TO AND IMPAIRMENT IN THE USE OF ANY EXISTING UTILITY LINES. ANY DAMAGE INFLICTED ON EXISTING UTILITY LINES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR RESTORED AS DIRECTED BY THE UNIVERSITY AT THE CONTRACTOR'S EXPENSE.
- 7. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 8. SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, THE CONTRACTOR SHALL MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE SPECIFIED IN THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL SUBMIT DRAWINGS TO REFLECT THE PROPOSED ALTERNATE METHODS TO THE UNIVERSITY. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVAL IS OBTAINED. REARRANGEMENT OF WORK FOR THE PURPOSE OF COORDINATION SHALL NOT BE CONSIDERED AN ITEM FOR EXTRA COST.
- MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO AREAS AND SYSTEMS OUTSIDE OF THE PROJECT LIMITS.
- 10. MINIMUM TELECOMMUNICATIONS CONDUIT BEND RADIUS SHALL BE PER ANSI/TIA-569-C. NO MORE THAN TWO 90-DEGREE BENDS AND 100 FEET WILL BE ALLOWED BETWEEN ACCESSIBLE PULLING POINTS.
- 11. ALL TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA/EIA WIRING STANDARDS AND UH-ITS INFRASTRUCTURE DESIGN GUIDELINES.
- 12. ALL TELECOMMUNICATIONS PATHWAYS (CABLE SUPPORTS, JUNCTION BOXES, AND CONDUIT) SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA-569-C AND ADDENDA.
- 13. PROVIDE NYLON PULLSTRINGS IN ALL EMPTY CONDUITS UNLESS OTHERWISE INDICATED.
- 14. CONDUIT BODIES (e.g. LB, LR, etc.) SHALL NOT BE PERMITTED IN THE TELECOMMUNICATIONS RACEWAY SYSTEMS. USE OF FLEXIBLE CONDUIT WILL NOT BE ALLOWED FOR TELECOMMUNICATIONS RACEWAY SYSTEMS.
- 15. PROVIDE INSULATED BUSHINGS AT ALL TELECOMMUNICATIONS CONDUIT TERMINATIONS AT ALL BOXES, BACKBOARDS, AND CONDUIT STUBS.
- 16. STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND NFPA 1 (2018 EDITION, AS AMENDED).

COUNTY OF MAUI MAUI COUNTY, CHAPTER 16.16B ENERGY CODE COMMERCIAL PROVISIONS							
COMPLIANCE METHOD Check applicable method							
	C401.2(1) ANSI/ASHRAE/IESNA 90.1						
\boxtimes	C401.2(2) Sections C402 through C406						
	C401.2(3) Sections C402.5, C403.2, C404, C405.2, C405.3, C405.4, C405.6 & C407						
	C102.1 Alternative						
To the best of my knowledge, this project's design substantially conforms to the Energy Code. Signature: Name: MICHELE N. ADOLPHO Title: PROJECT ENGINEER License No.: 10017-E							



Muhhad

PROJECT ENGINEER for ECS, Inc.

APRIL 30, 2024

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ELECTRICAL SYMBOL LIST AND GENERAL ELECTRICAL NOTES

MAUI DISTRICT BASEYARD

Scale: AS SHOWN

Project No. HWY-M-ART18.01 Date: MAY 2022

SHEET No. E1 OF 80 SHEETS

