

ELECTRICAL SYMBOL LIST / MOUNTING HEIGHT SCHEDULE				
MOUNTING HEIGHT FROM FLOOR TO		(SPECIAL MOUNTING HEIGHTS INDICATED ON PLAN)		
		SYMBOL		DESCRIPTION
		EXISTING	NEW	
TOP	Q			
6'6"		c≡≡		PANELBOARD
		c≡≡		TELEPHONE EQUIPMENT
18"				JUNCTION BOX, LARGE, WALL MOUNTED
18"				JUNCTION BOX, LARGE, MOUNTED ON STRUT RACK SUPPORT FRAME
			E---	CONDUIT STUB OUT
				PUSH TO CLOSE MOMENTARY SWITCH
				GROUND
		H	H	PUSH BUTTON, WALL MOUNTED
				TRANSFORMER, PAD OR FLOOR MOUNTED
				POWER TRANSFORMER
				CIRCUIT BREAKER
				NON-FUSED DISCONNECT SWITCH
				TRANSFER SWITCH
		\$ _M	\$ _M	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD (SINGLE POLE) 1HP MAXIMUM
				MOTOR CONNECTION
				EQUIPMENT CONNECTION
				SHUNT TRIP
				GROUND ROD
				HOMERUN ARROW TO PANELBOARD. LETTER INDICATES PANELBOARD, NUMBERS INDICATES CIRCUITS.
				CONTROLS CONNECTION POINT. 1" CONDUIT CONNECT TO EQUIPMENT FOR CONTROLS CABLING. CONDUIT MUST BE COORDINATED WITH MECHANICAL AND CONTROLS CONTRACTORS TO ENSURE EQUIPMENT CONNECTIONS ARE CORRECT.
				INTERIOR WORK: CONCEALED CONDUIT IN FINISHED FLOOR OR BELOW GRADE (NO HASHMARKS INDICATE 2 CURRENT CARRYING CONDUCTORS AND 1 GROUND CONDUCTOR WITHIN, ALL OTHERS SIMILAR).
				EXTERIOR WORK: CONCRETE ENCASED UNDERGROUND DUCT LINE, SEE DUCT SECTION INDICATOR AND SCHEDULE. SAWCUT ROADWAY, PAVING, SIDEWALK, OR CONCRETE SLAB, REPAIR TO MATCH EXISTING.
				EXPOSED RACEWAY, PROVIDE STRAP 8'-0" ON CENTER MAXIMUM
				CONDUIT SEAL, EYS FITTING TYPE
				TELECOMMUNICATIONS SYSTEM RACEWAY, 1" MINIMUM CONDUIT WITH PULLSTRING
				DENOTES DEMOLITION/REMOVAL
				EQUIPMENT TAG; EXHAUST FAN "EF-1" INDICATED; ALL OTHERS SIMILAR
				DUCT SECTION INDICATOR, SEE E501
				KEYNOTE INDICATOR - DEMOLITION WORK
				KEYNOTE INDICATOR - NEW WORK
				DETAIL INDICATOR: TOP HALF DENOTES DETAIL NUMBER, BOTTOM HALF LEFT DENOTES WHERE THE REFERENCE TO THE DETAIL IS LOCATED. BOTTOM HALF RIGHT DENOTES DETAIL SHEET LOCATION.

ELECTRICAL ABBREVIATIONS			
(K)AIC	(KILO) AMPERE-INTERRUPTING CAPACITY	LTG	LIGHTING
AFF	ABOVE FINISH FLOOR	MH	MANHOLE
A	AMPERE	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BC	BARE COPPER	MLO	MAIN LUGS ONLY
BKR	BREAKER	MTD	MOUNTED
BLDG	BUILDING	MTG	MOUNTING
BKBD	BACKBOARD	NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
CATV	CABLE TELEVISION	NO, #	NUMBER
CKT	CIRCUIT	O.C.	ON CENTER
CONC	CONCRETE	OCPD	OVER CURRENT PROTECTION DEVICE
CT	CURRENT TRANSFORMER	PB	PULLBOX
D	DEEP	PFB	PROVISION FOR FUTURE BREAKER
Δ	DELTA SYSTEM	PNL	PANEL
DISC	DISCONNECT	φ	PHASE
DIST	DISTRIBUTION	RM	ROOM
HH	HANDHOLE	SMH	SEWER MANHOLE
EFSO	EMERGENCY FUEL SHUT OFF	SN	SOLID NATURAL
ELEC	ELECTRICAL	S/S	STAINLESS STEEL
EMH	ELECTRICAL MANHOLE	ST	STREET
ENCL	ENCLOSURE	SURF	SURFACE
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EQUIP	EQUIPMENT	TBB	TELECOMMUNICATIONS BACKBOARD
EXIST,(E)	EXISTING	THK	THICK
FLA	FULL LOAD AMPERE	TYP	TYPICAL
GALV	GALVANIZED	UG	UNDER GROUND
GFC	GROUND FAULT CIRCUIT INTERRUPTOR	UON	UNLESS OTHERWISE NOTED
GND	GROUND	V	VOLTS
GRS	GALVANIZED RIGID STEEL	W	WIRE, WIDE, WATTS, WITH
H	HEIGHT	WP	WEATHERPROOF
HP	HORSEPOWER	XFMR	TRANSFORMER
JB	JUNCTION BOX	Y	WYE SYSTEM
KV	KILO-VOLT	φ	PHASE
KVA	KILO-VOLT AMPERE	'	FOOT, FEET
KW	KILOWATT	"	INCH, INCHES
L	LENGTH	¢	AND
LT	LIGHT		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-03-21, PHASE 2	2022	33	46

COUNTY OF MAUI
MAUI COUNTY CODE, CHAPTER 16.16B, ENERGY CODE
COMMERCIAL PROVISIONS

COMPLIANCE METHOD
CHECK APPLICABLE METHOD

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C401.2(1) ANSI/ASHRAE/IESNA 90.1

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C401.2(2) SECTIONS C402 THROUGH C406

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C401.2(3) SECTIONS C402.5, C403.2, C404, C405.2, C405.3, C405.4, C405.6 & C407

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C102.1 ALTERNATIVE

TO THE BEST OF MY KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY CONFORMS TO THE ENERGY CODE

SIGNATURE: Garret A. MasudaDATE: 06/XX/2022

NAME: GARRET MASUDA, P.E.

TITLE: ELECTRICAL ENGINEER

LICENSE No.: 9756-E

GARRET A. MASUDA
LICENSED PROFESSIONAL ENGINEER
No. 9756-E
HAWAII, U.S.A.

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4/30/24
EXP. DATE
Garret A. Masuda
This work was prepared by me or under my supervision.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYMBOLS AND
ABBREVIATIONS-ELECTRICAL

MAUI DISTRICT BASEYARD OFFICE EXPANSION #
RENOVATION, PART 2
Project No. HWY-M-03-21, Phase 2
Scale: NONEDate: JULY 2022