

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-05-98	2002	90	99

LIGHTING FIXTURE SCHEDULE			
TYPE	LAMP WATTS/	DESCRIPTION	MFR OR APP'D EQ.
A	4-32W T-8	FLUORESCENT RECESS 2'X4', PRISMATIC, ACRYLIC DIFFUSER MULTISTAGE PHOSPHATE TREATED ONE PIECE UNITIZED BODY, BAKED WHITE ENAMEL FINISH, FLUSH ALUMINUM DOOR FRAME, ELECTRONIC BALLAST. PROVIDE INTEGRAL RECHARGEABLE BATTERY PACK AS INDICATED.	DAYBRITE 2DG432FA COLUMBIA #5000 EQ. METALUX 26C EQ.
A1	3-32W T-8	SIMILAR TO TYPE "A" EXCEPT 3-LAMP	
A2	2-32W T-8	SIMILAR TO TYPE "A" EXCEPT 2-LAMP	
B	2-32W T-8	FLUORESCENT, VAPORTIGHT, NON-CORROSIVE, NON-CONDUCTIVE HOUSING. UL LISTED FOR WET LOCATIONS.	DAYBRITE VW232-1/2-EB COLUMBIA LUN-WL EQ. METALUX VT2-WL EQ.
C	400W MH	METAL HALIDE, FULLY ENCLOSED LOW BAY STAINLESS STEEL LATCHES AND HINGE. ONE PIECE INJECTED MOLDED VIRGIN ACRYLIC LENS, HERMETICALLY SEALED TO THE REFLECTOR. ENCLOSED & GASKETED OPTICAL ASSEMBLY. ONE PIECE DIE CAST ALUMINUM HOUSING. UL WET LOCATION LISTED. POLYESTER POWDER COAT HOUSING. PROVIDE POWER HOOK ASSEMBLY AND AUXILIARY QUARTZ STANDBY LAMP FOR LAMPS ON EMERGENCY CIRCUIT.	DAYBRITE LBD-400-M-MT-Q LUMARK RB EQ.
D	250W HPS	HPS, WALL-MOUNTED, DK BRONZE DIE-CAST ALUM. HSG, CLEAR PRISMATIC GLASS REFLECTOR. SILICONE GASKET. UL LISTED FOR WET LOCATIONS. PROVIDE AUXILIARY QUARTZ STANDBY LAMP.	DAYBRITE WLL-25HS-MT-Q
E	100W HPS	HPS, WALL-MOUNTED, DK BRONZE DIE-CAST ALUM. HSG, CLEAR PRISMATIC GLASS REFLECTOR. SILICONE GASKET. UL LISTED FOR WET LOCATIONS. PROVIDE AUXILIARY QUARTZ STANDBY LAMP.	DAYBRITE WLM-100S-MT-Q
F	150W HPS	HPS, FLOODLIGHT, ONE PIECE DK BRONZE DIE CAST ALUM. HSG., TEMPERED GLASS LENS, ONE PIECE DIE CAST ALUM. DOOR W/ S.S. DOOR SCREW, SILICONE GASKET. UL LISTED FOR WET LOCATIONS.	DAYBRITE FLI-10HS-12LP LUMARK WR EQ.
G	400W HPS	HPS, EXTRUDED ALUMINUM SILICONE GASKETED, ANODIZED DOOR FRAME. ALUMINUM REFLECTOR. WITH PHOTO CELL. SEE DETAIL ON SHEET E4.1	GARDCO EH19-1-BRA-PC KIM EQ.

LIGHTING FIXTURE SCHEDULE NOTES:

- SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING LIGHTING FIXTURES. ALL SUBSTITUTION REQUESTS FOR APPROVAL MUST INCLUDE COMPLETE PHOTOMETRY OF EACH FIXTURE, DETAILS REGARDING METAL GAUGE, DIFFUSER COMPOSITION AND THICKNESS, FINISHES, PHYSICAL DIMENSIONS, BALLASTING, AND COMPOSITION AND FINISH OF REFLECTOR(S). SAMPLES MAY BE REQUIRED IF REQUESTED.
- CATALOG NUMBERS USED FOR SPECIFIED PRODUCTS ARE NOT NECESSARILY APPROPRIATE FOR THE VARIOUS CEILING SYSTEMS THAT ARE TO BE PROVIDED. VERIFY CEILING SYSTEMS AND PROVIDE APPROPRIATE FIXTURE TYPE & ACCESSORIES FOR THE PARTICULAR APPLICATION AND CEILING SYSTEM; I.E., MOUNTING BRACKETS, FLANGES, PLASTER FRAMES AS REQUIRED.

ELECTRICAL SYMBOLS

EXST	NEW	DESCRIPTION	EXST	NEW	DESCRIPTION
				○●	HIGH PRESSURE SODIUM PARKING AREA LIGHT
	Ⓐ	LIGHT FIXTURE TYPE INDICATOR, TYPE "A" INDICATED		□	FLUOR. CEILING LIGHT, RECESSED
	HHG	HANDHOLE GROUP		□	FLUOR. CEILING EMERGENCY LIGHT, RECESSED
	PB	PULLBOX		□	FLUOR. CEILING LIGHT, (STEM MTD 8'-0" ABOVE FL UNLESS NOTED OTHERWISE)
	NL	NIGHT LIGHT (ON AT 6:00 P.M., OFF AT 6:00 A.M.)		□	FLUOR. CEILING EMERGENCY LIGHT, (STEM MTD 8'-0" ABOVE FL UNLESS NOTED OTHERWISE)
	CL	CURFEW LIGHT (ON AT 6:00 P.M., OFF AT 10:00 P.M.)		□	FLUOR. LIGHT WITH INTEGRAL BATTERY PACK
	EX	EXPLOSION-PROOF		⊙	HPS OR MH EMERGENCY WALL LIGHT (MTG HEIGHT SHOWN ON PLANS)
	SS	STAINLESS STEEL		⊙	HPS OR MH WALL OR FLOOD LIGHT (MTG HEIGHT SHOWN ON PLANS)
	SVC	SERVICE		⊙	MH EMERGENCY LOW-BAY LIGHT (MTG HEIGHT SHOWN ON PLANS)
	UG	UNDERGROUND		○	MH LOW-BAY LIGHT (MTG HEIGHT SHOWN ON PLANS)
	WP	WEATHERPROOF			
	WT	WATERTIGHT			
				\$	LIGHT SWITCH, 1-POLE, +45" OR AS INDICATED
				\$2	LIGHT SWITCH, 2-POLE, +45" OR AS INDICATED
				\$3	LIGHT SWITCH, 3-WAY, +45" OR AS INDICATED
				⊙	PHOTOCELL, AIM AWAY FROM LIGHT SOURCE
				⊙	RELAYS IN CABINET
				⊙	TIME SWITCH
				⊕	DUPLEX RCPT, NEMA 5-20R, +18" OR AS INDICATED (+6" ABOVE COUNTER)
				⊕	DUPLEX RCPT, NEMA 5-20R, GFCI, +18" OR AS INDICATED (+6" ABOVE COUNTER)
				⊕	SINGLE RCPT, NEMA 6-50R, +22" (COORD. W/ SUPPLIER MANUFACTURE)
				⊕	SINGLE RCPT, NEMA 6-30R, +22" (COORD. W/ SUPPLIER MANUFACTURE)
				⊕	TEL OUTLET, +18" OR AS INDICATED (+6" ABOVE COUNTER)
				⊕	COAX OUTLET, +18" OR AS INDICATED (+6" ABOVE COUNTER)
				⊕	JUNCTION BOX IN CEIL (ACCESSIBLE)
				⊕	JUNCTION BOX IN WALL
				⊕	JUNCTION BOX, LARGE, SIZE PER N.E.C.
				⊕	HEATER CONNECTION
				⊕	MOTOR CONNECTION
				\$M	MANUAL MOTOR STARTER W/ THERMAL OVERLOAD PROTECTION
				⊕	MAGNETIC MOTOR STARTER, HP-RATED
				⊕	DISCONNECT SWITCH, HP-RATED
				⊕	ELECTRIC PANEL, +6'-0" TO TOP
				⊕	TEL CABINET, +6'-0" TO TOP
				□	CONC HANDHOLE
	~eOH~	~OH~		~OH~	O/H CABLES
	-----e-----	-----		-----	U/G DUCTLINE W/ WIRES
	-----e-----	-----		-----	RACEWAY W/ 3 WIRES INDICATED CONCEALED ABOVE FINISH FLOOR
	-----e-----	-----		-----	RACEWAY W/ WIRES CONCEALED BELOW FINISH FLOOR
	-----e-----	-----		-----	FLEXIBLE CONDUIT W/ WIRES
	-----e-----	-----		-----	EXPOSED RACEWAY W/ WIRES
	-----e-----	-----		-----	EXPLOSIONPROOF FITTING WITH SEALING COMPOUND
	-----e-----	-----		-----	TEL RACEWAY W/ PULLWIRE
	-----e-----	-----		-----	CATV RACEWAY W/ PULLWIRE

- GENERAL NOTES:
- DO NOT MOUNT WALL OUTLETS BACK-TO-BACK.
 - OTHER MOUNTING HEIGHTS AS INDICATED.
 - ALL ELECTRICAL INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.

REVISED ORDINANCES OF MAUI
CHAPTER 53
BUILDING ENERGY EFFICIENCY STANDARDS

THE BUILDING ENERGY EFFICIENCY STANDARDS HAVE BEEN REVIEWED AND TO THE BEST OF MY KNOWLEDGE THIS DESIGN SUBSTANTIALLY CONFORMS TO ELECTRICAL AND LIGHTING REQUIREMENTS, 53.10 & 53.11

Glenn D. Oyama
Signature

GLENN D. OYAMA
Name (print)

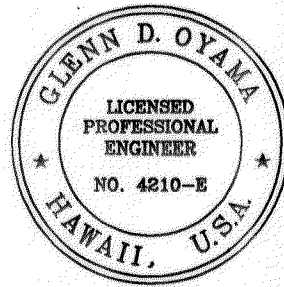
VICE PRESIDENT
Title

4210-E
License No.

BUILDING ENERGY EFFICIENCY STANDARDS

DESCRIPTION	AREA (SQ. FT)	ALLOWED WATTS/SQ. FT	ALLOWED WATTS (ILPA/ELPA)	ADJUSTED LTG POWER
OFFICE BUILDING	1750	1.40 (PRESCRIP.)	2450	2252
MAINTENANCE BUILDING	5000	2.03 (PRESCRIP.)	10150	9179
STORAGE BLDG/STORAGE SHED	1728	0.60 (PRESCRIP.)	1036	1008
EQUIPMENT SHED	5800	0.50 (PRESCRIP.)	2900	2268
EXTERIOR (PARKING LOTS)	7800	0.12	936	934
EXTERIOR (DRIVEWAYS/WALKWAYS)	65000	0.10	6500	6406

(BASED ON STATE MODEL ENERGY CODE)



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Glenn D. Oyama

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
FIXT. SCHED., ELEC. SYMBLS
ENERGY STANDARDS
MOLOKAI BASEYARD
MOLOKAI INDUSTRIAL PARK
Project No. HWY-M-05-98

Scale: As Noted Date: SEPT. 13, 2001

SHEET NO. E0.1 OF E0.1 SHEETS