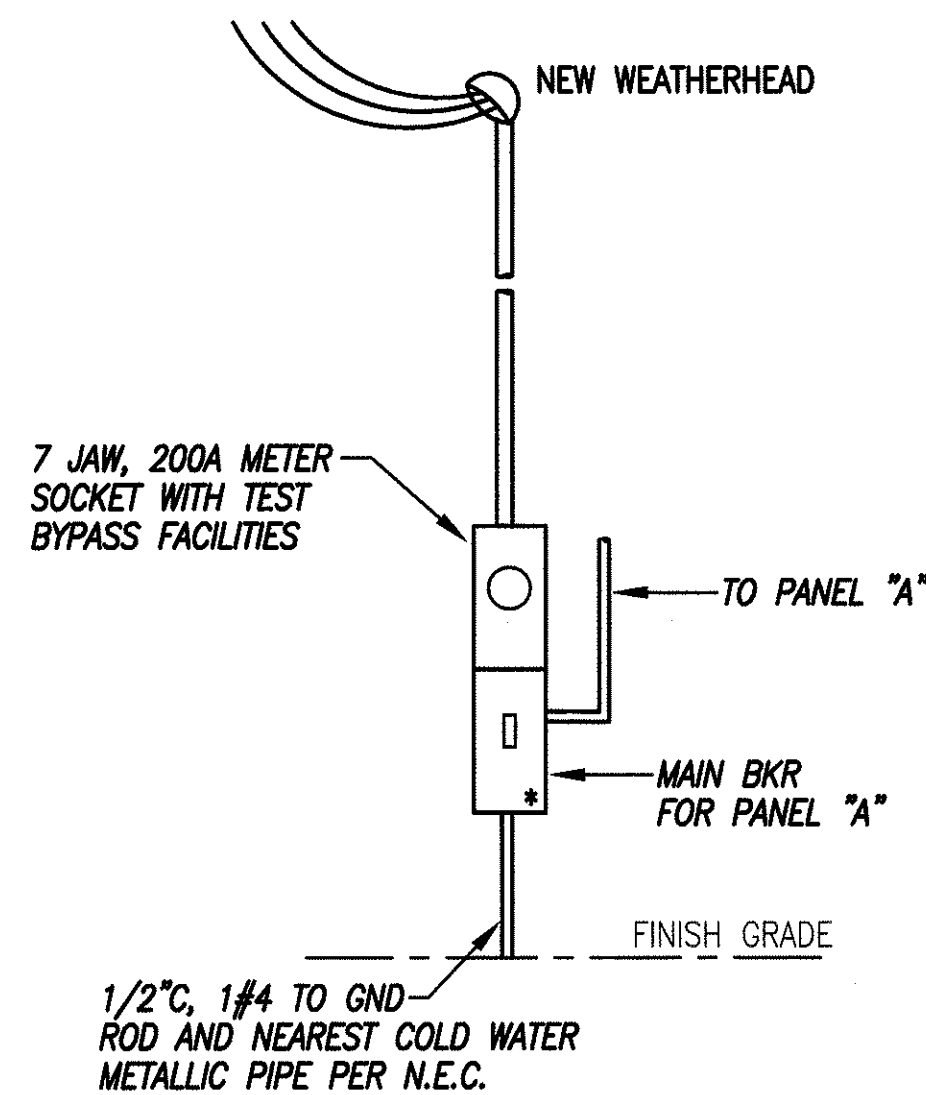


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-H-0-05-00M	2003	38	40

DEMOLITION NOTES

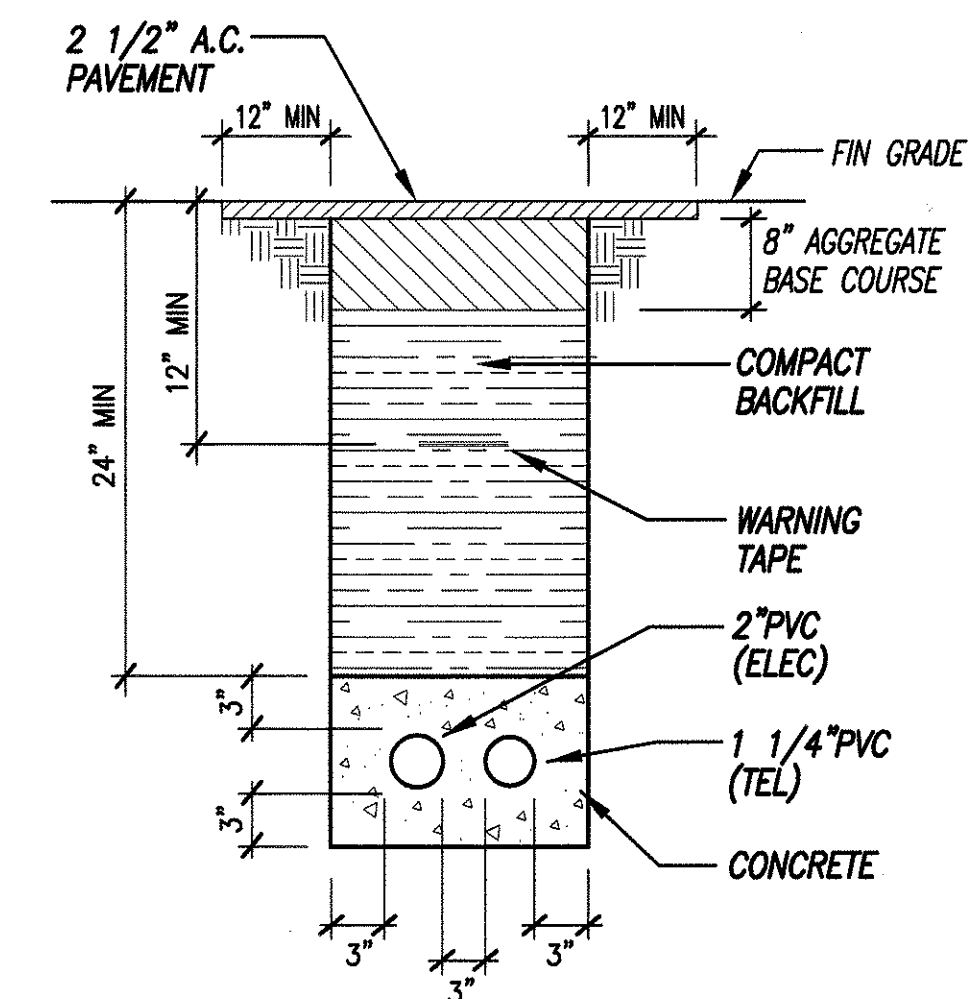
- EXISTING PLANS DO NOT INDICATE COMPLETE EXISTING WIRING CONDITIONS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
- BEFORE ANY WIRING IS CUT, CONTRACTOR SHALL VERIFY USAGE OF WIRING TO BE CUT TO ASSURE THAT SERVICES REQUIRED ARE NOT DISCONTINUED. PROVIDE ADDITIONAL WIRING DEVICES AND OTHER ACCESSORIES TO ENSURE CONTINUITY OF SERVICE TO OTHER PARTS OF INSTALLATION TO REMAIN.
- REMOVE ALL EXISTING WIRING NOT TO REMAIN IN SERVICE.
- REMOVE ALL CONDUITS NO LONGER REQUIRED.
- PHASE WORK TO ASSURE CONTINUITY OF ELECTRICAL, TELEPHONE AND SIGNAL SERVICES TO PARTS OF FACILITIES THAT WILL REMAIN IN USE.
- REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES AND SWITCHES INDICATED TO BE REMOVED OR NO LONGER REQUIRED. BLANK OUTLETS AND PLUG ALL HOLES IN BOXES AND CABINETS.
- DELIVER ALL SALVAGEABLE MATERIAL AS DETERMINED BY ENGINEER AT NO ADDITIONAL COST TO OWNER. PACK MATERIAL IN BOXES. COIL ALL CABLES AND TIE.
- RETURN ALL REMOVED LIGHT FIXTURES TO OWNER. DELIVER ITEMS AND STACK IN LOCATION AS DETERMINED BY ENGINEER.
- DURING THE REMOVAL OF THE EXISTING PANEL, POWER OUTAGE TO THE PUMP STATION SHALL BE KEPT TO A MINIMUM. FUEL PUMP STATIONS SHALL BE TEMPORARILY CONNECTED TO OFFICE TRAILER PANEL.



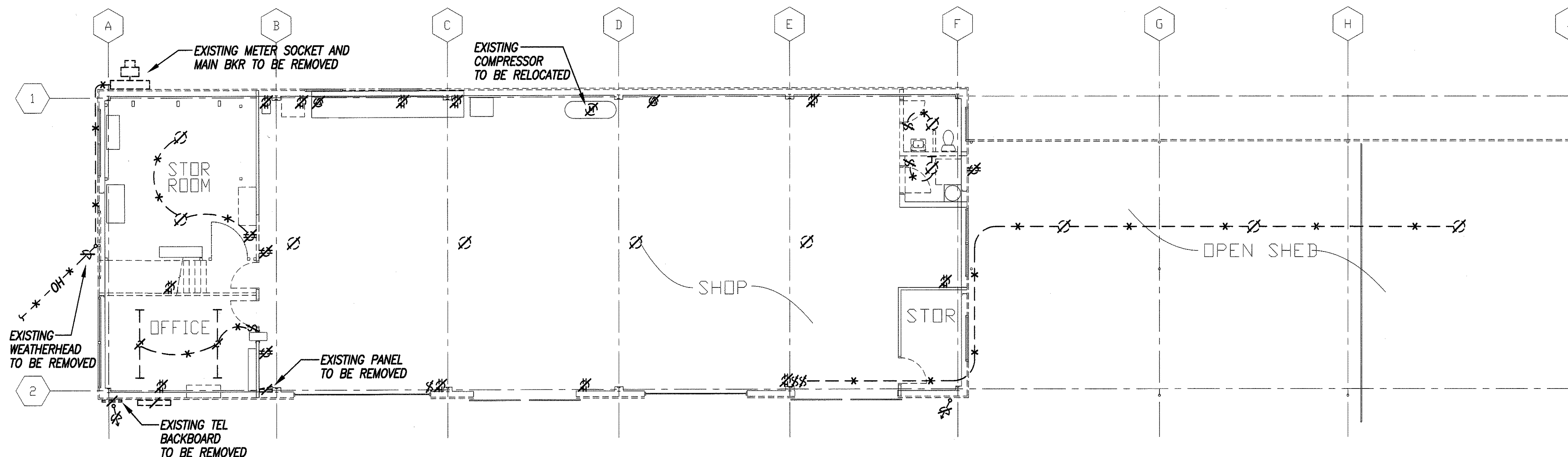
NOTES:

- * - INDICATES SEALABLE ENCLOSURE.
- ALL ENCLOSURES SHALL BE NEMA3R.
- 4'-0" MINIMUM CLEARANCE REQUIRED IN FRONT OF METER
- VERIFY TELEPHONE REQUIREMENTS WITH HELCO BEFORE INSTALLATION.

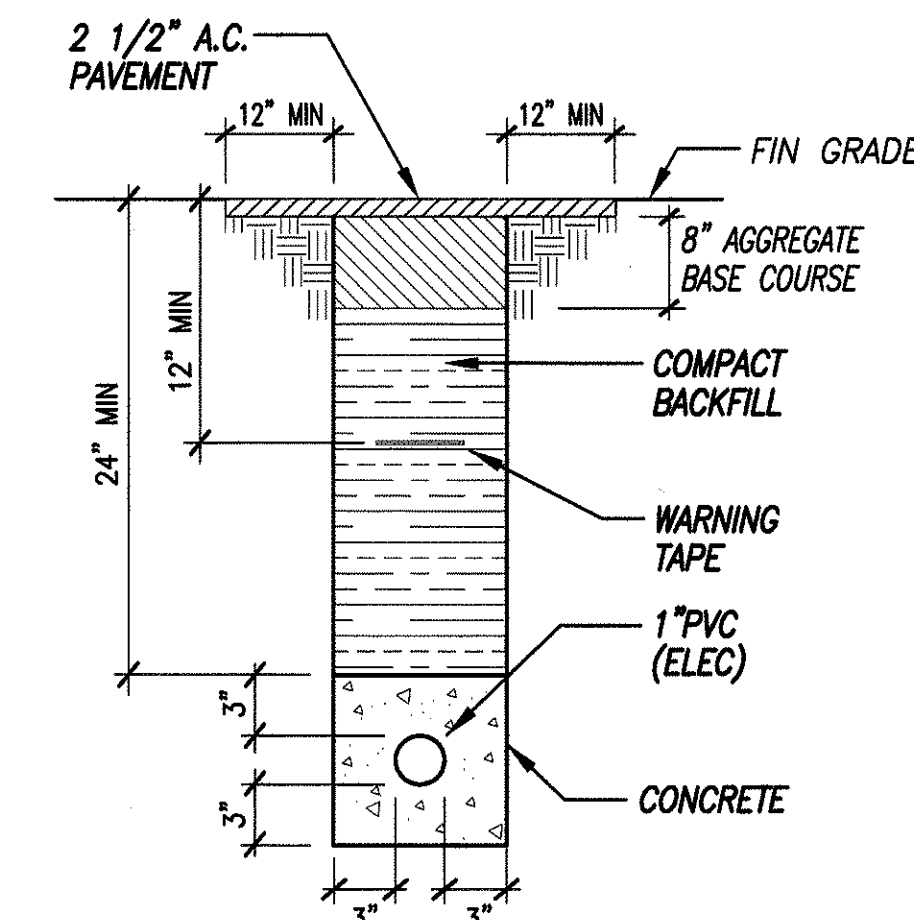
A
E-2 **ELECTRICAL SERVICE EQUIPMENT ELEVATION**
SCALE: 3/8" = 1'-0"



B
E-2 **DUCT SECTION**
NOT TO SCALE

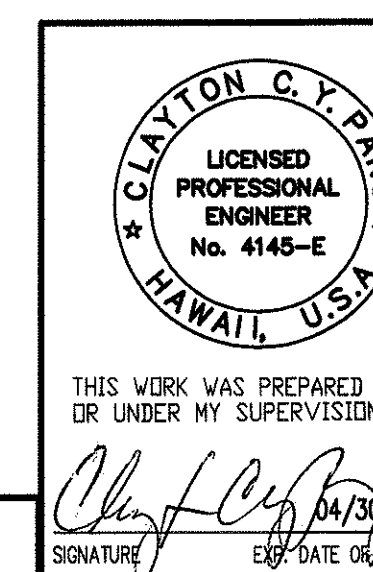


FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SCALE : 1/8" = 1'-0"



C
E-2 **DUCT SECTION**
NOT TO SCALE

ORIGINAL SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ELECTRICAL DEMOLITION PLAN & NOTES,
DUCT SECTIONS, EQUIPMENT ELEVATION
WAIMEA BASEYARD
Project No. HWY-H-0-05-00M
Scale: As Noted Date: February 2003
SHEET No. 2 OF 4 SHEETS

E-2

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
SIGNATURE DATE OF THE LICENSE

2P40A TIME SWITCH
WITH 10HRS RESERVE
POWER, INTERMATIC.

32

TO NIGHT
LIGHT

SPARE

PARTIAL PANEL "A"

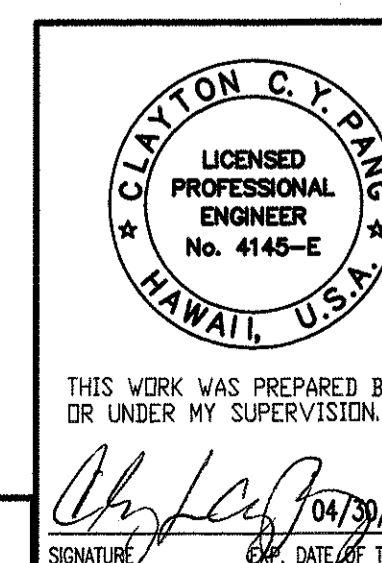
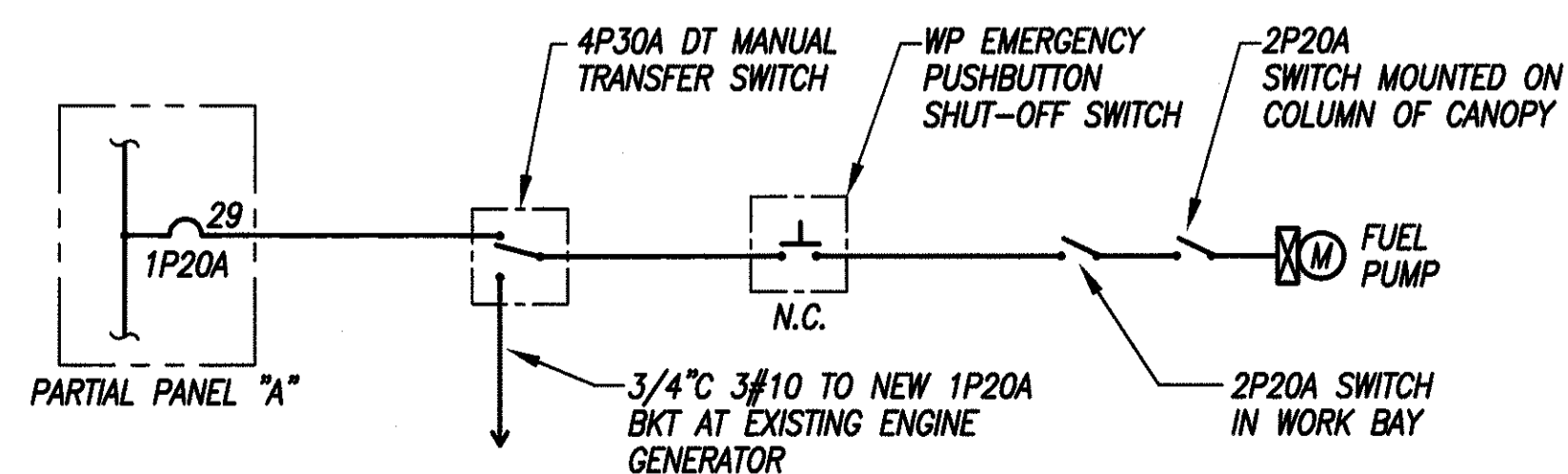
Diagram illustrating a fire alarm system layout. The system includes a staircase, a central area labeled 'B', and a lower section labeled 'OFFICE BELOW'. A switch is located at the ground level near the staircase. A dashed line labeled 'A-6' indicates a path from the switch to a control panel. The diagram is labeled with '1' and '2' at the bottom and 'A' and 'B' at the top.

Diagram illustrating the wiring for the fuel pump system, showing the connection from the engine generator to the fuel pump through various switches and a transfer switch.

Components and Connections:

- PARTIAL PANEL "A"**: Contains a **1P20A** fuse and a terminal labeled **29**.
- 4P30A DT MANUAL TRANSFER SWITCH**: A switch that can be moved to connect the power to either the engine generator or the fuel pump.
- WP EMERGENCY PUSHBUTTON SHUT-OFF SWITCH**: A safety switch for the work pump.
- 2P20A SWITCH MOUNTED ON COLUMN OF CANOPY**: A switch for the canopy.
- 2P20A SWITCH IN WORK BAY**: A switch for the work bay.
- FUEL PUMP**: The component being powered.
- 3/4" C 3/10 TO NEW 1P20A BKT AT EXISTING ENGINE GENERATOR**: A cable connection from the engine generator to the transfer switch.
- N.C.**: Normally Closed contact.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	-
	TRACED BY	
	DESIGNED BY	CP
	QUANTITIES BY	
	CHECKED BY	CP
No. _____		



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLANS-NEW WORK, TYPICAL
FUEL PUMP & NIGHT LIGHT WIRING DIAGRAM

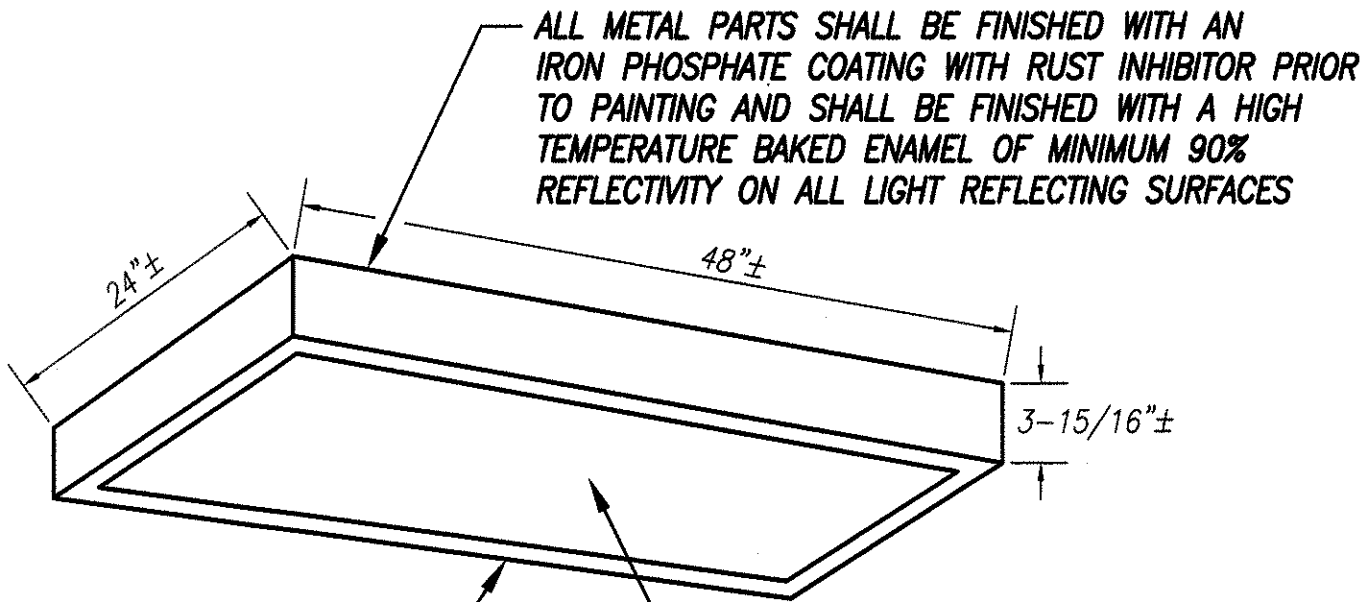
WAIMEA BASEYARD
Project No. HWY-H-0-05-00M

Scale: As Noted Date: February 2003

SHEET No. 3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-H-0-05-00M	2003	40	40

PANEL "A"		208Y/120 VOLTS			3Ø, 4WSN	
225A MAIN LUGS ONLY		BRANCH BKR I.C.			10,000A	
SURFACE,						
CKT NO.	BKR	L O A D	KVA			WIRE
			A	B	C	
1	1P20A	LIGHTS - SHOP LIGHTS	1.4			12
2		- SHOP LIGHTS	0.9			
3		- SHOP LIGHTS		1.4		
4		- OPEN SHED		1.4		
5		- SHOP LIGHTS			1.4	
6		- STOR RM, OFFICE			1.6	
7		↓ - RESTROOM, STOR RM	0.3			
8		RECEP - STOR RM	0.4			
9		- SHOP, RESTROOM, SHED		0.6		
10		- OFFICE		1.4		
11		- WATER COOLER			1.0	
12	↓	↓ - SHOP			1.2	↓
13,15,17	3P40A	AIR COMPRESSOR	2.0	2.0	2.0	10
14	1P20A	RECEP - ICE MAKER	1.0			12
16	1P20A	RECEP - WATER COOLER		1.0		12
18	1P20A	WAC			1.3	12
19	↓	RECEP	0.2			↓
20,22,24	3P30A	RECEP - SPECIAL	1.0	1.0	1.0	10
21	1P20A	RECEP - MICROWAVE		1.2		12
23	1P20A	RECEP - REFRIG			1.2	12
25,27	2P20A	RECEP - SPECIAL	1.0	1.0		10
26,28	2P30A	WATER HEATER	2.3	2.3		10
29	1P20A	PUMP			1.0	12
30	↓	LIGHTS - PUMP			0.5	↓
31		PUMP	1.0			
32	↓	LIGHTS - EXTERIOR	0.6			↓
33,35	2P100A	TEMP TRAILER		8.0	8.0	2
34	1P20A	FUTURE USE FOR DRUM SHED				
36	1P20A	FUTURE USE FOR DRUM SHED				
37	1P	PFB				
38						
39	↓	↓				
40						
41						
42	↓	↓				
T O T A L			12.1	21.3	20.2	



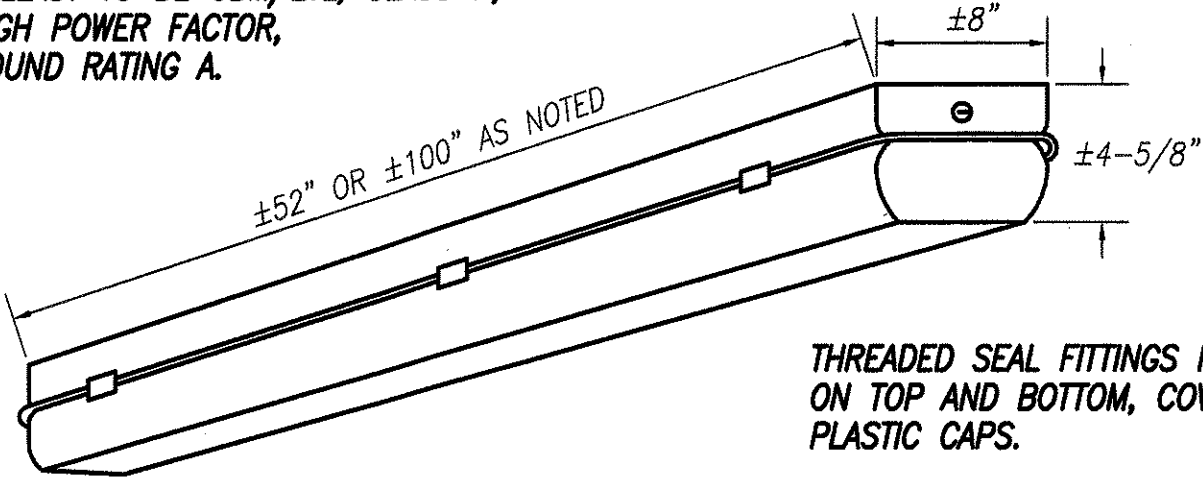
FIXTURE HOUSING, ENDS AND REFLECTORS ARE DIE-FORMED STEEL. DOORS OPEN FROM EITHER SIDE OR MAY BE COMPLETELY REMOVED WITHOUT TOOLS

CLEAR, EXTRUDED LENS PANEL OF VIRGIN ACRYLIC WITH AN OVERALL PRISMATIC PATTERN PROVIDING MAXIMUM EFFICIENCY AND EXCELLANT BRIGHTNESS CONTROL. LIGHTWEIGHT AND DESTATICIZED FOR MINIMUM MAINTENANCE

ELECTRONIC BALLAST

LUMINAIRE TYPE A - 4-32W T8 FLUORESCENT LAMPS

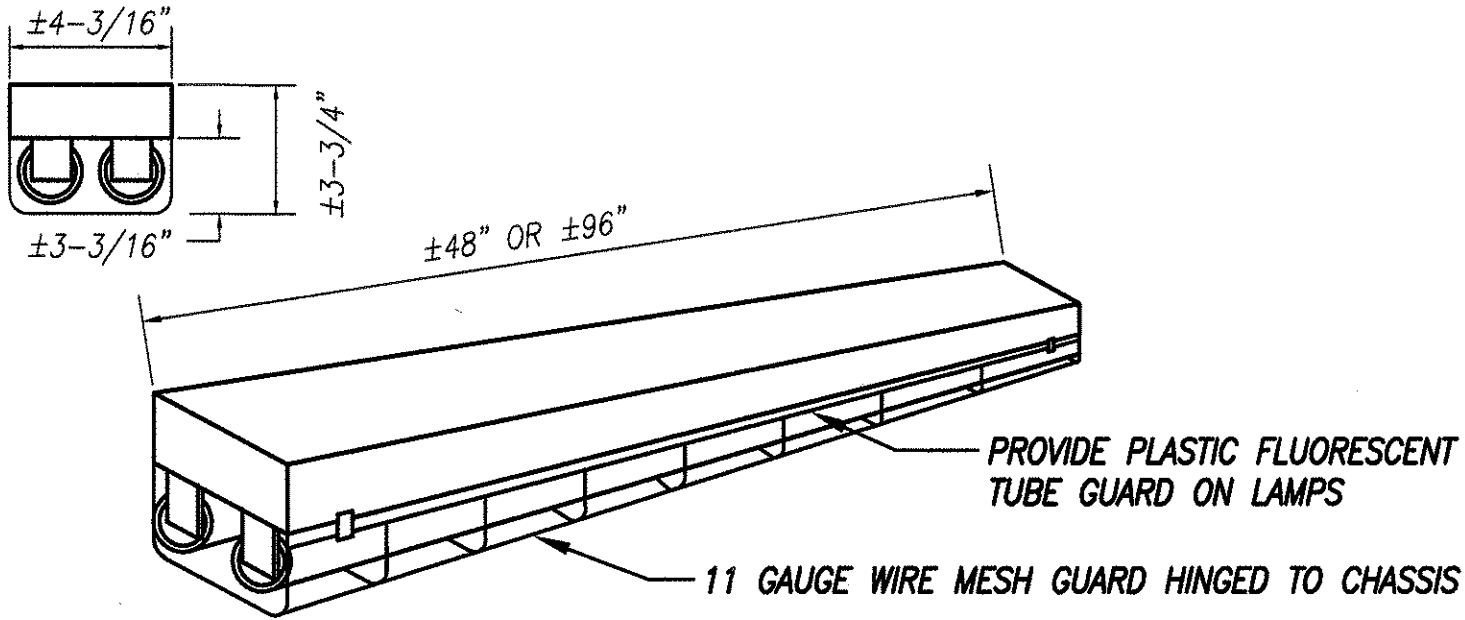
BALLAST TO BE CBM/ETL, CLASS P, HIGH POWER FACTOR, SOUND RATING A.



HIGH IMPACT, 0.125" CLEAR ACRYLIC ENCLOSURE. ONE PIECE NEOPRENE GASKET. HIGH IMPACT PLASTIC BODY SUITABLE FOR WET LOCATIONS PER NEC. GASKET TO BE 0.125" CONTINUOUS COMPRESSIBLE NEOPRENE. INTERNAL METAL WIRING COMPARTMENT TREATED WITH 5-STAGE ZINC PHOSPHATE AND HOT-BONDED ENAMEL PAINT. REFLECTING SURFACES FINISHED WITH HIGH-REFLECTANCE WHITE ENAMEL. ELECTRONIC BALLAST.

FIXTURE SHALL BE SUITABLE FOR WET LOCATIONS.

LUMINAIRE TYPE D - 2-32W T8 COOL WHITE FLUORESCENT LAMPS-52" LONG
LUMINAIRE TYPE G - 4-32W T8 COOL WHITE FLUORESCENT LAMPS-100" LONG

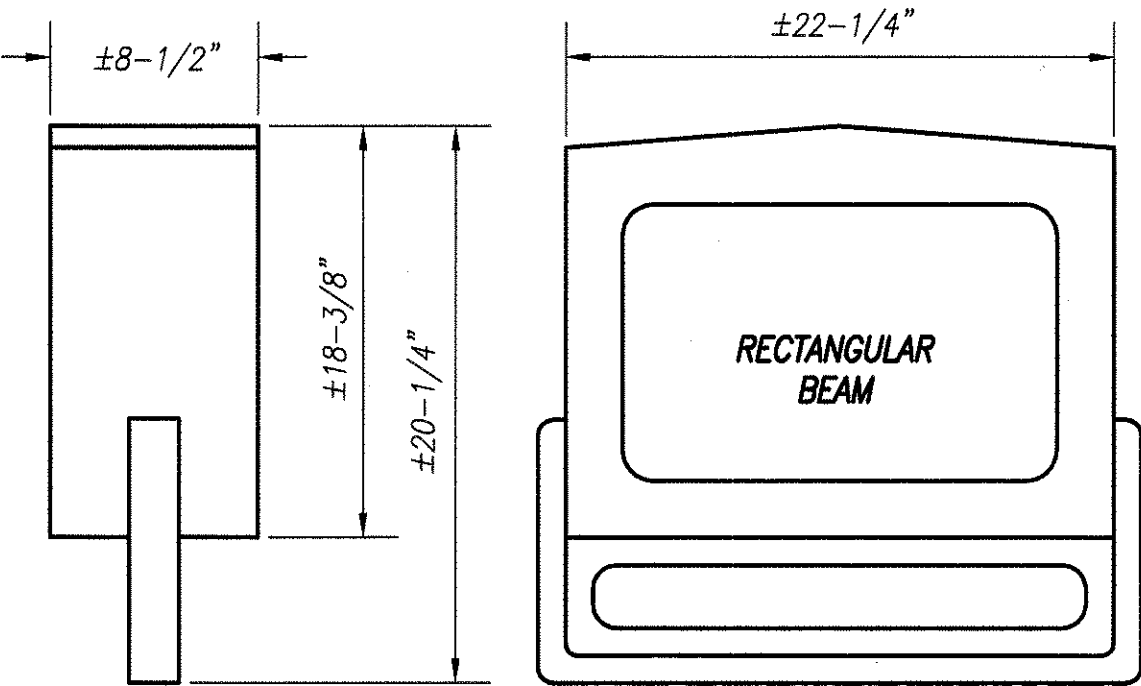


HIGH GLOSS BAKED WHITE ENAMEL FINISH ON 20 GAUGE COLD ROLL STEEL. PHOSPHETIZED AND FIVE STAGE PAINTING

CHASSIS TO BE FABRICATED AND PAINTED AFTER FABRICATION. ALL SURFACES AND EDGES TO BE PAINTED OR GALVANIZED. CHASSIS PREPAINTED PRIOR TO FABRICATION WILL NOT BE ALLOWED

BALLAST : ELECTRONIC TYPE, CLASS P, HPF, CBM/ETL CERTIFIED, .L. LISTED

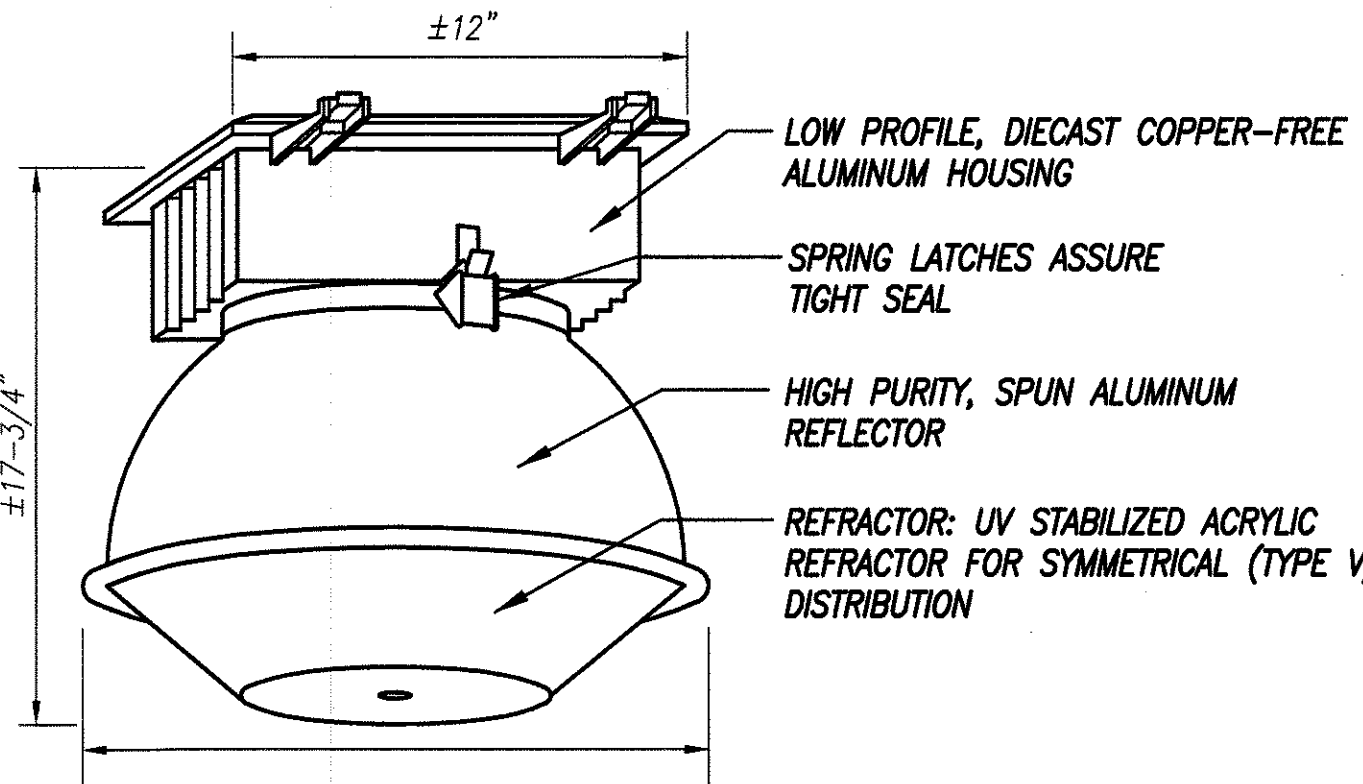
LUMINAIRE TYPE B - 2-32W T8 FLUORESCENT LAMPS



NEMA HEAVY DUTY, RUGGED DIECAST ALUMINUM, TEMPERED GLASS LENS, U.L. LISTED FOR WET LOCATION. DARK BRONZE FINISH

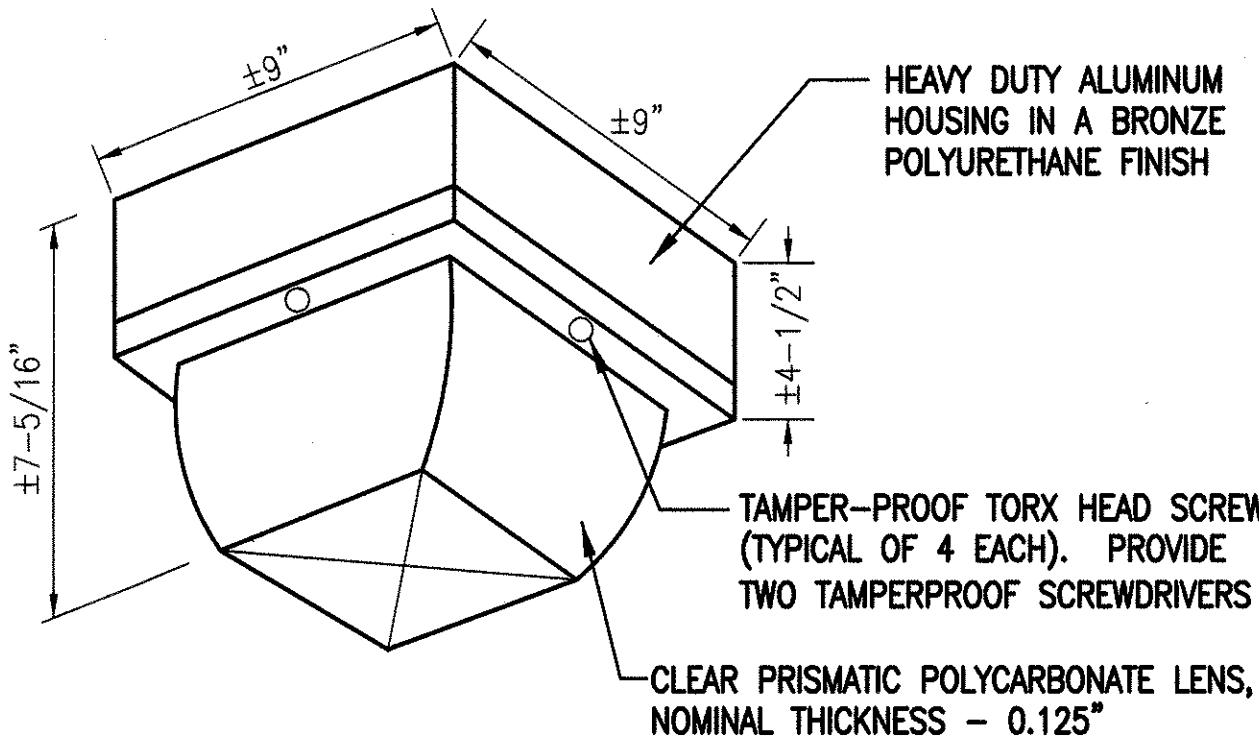
HOT DIPPED GALVANIZED STEEL YOKE TYPE MOUNTING

LUMINAIRE TYPE E - 180W LOW PRESSURE SODIUM LAMP
LUMINAIRE TYPE F - 100W HIGH PRESSURE SODIUM LAMPS



RELIABLE, LONG-LIFE BALLAST, CLASS H INSULATED, -20°F STARTING (-40°F HPS), 60 Hz, HIGH POWER FACTOR BALLAST ISOLATED FROM THE OPTICAL CHAMBER FOR OPTIMUM PERFORMANCE AND LONG LIFE

LUMINAIRE TYPE C - 175W METAL HALIDE LAMPS

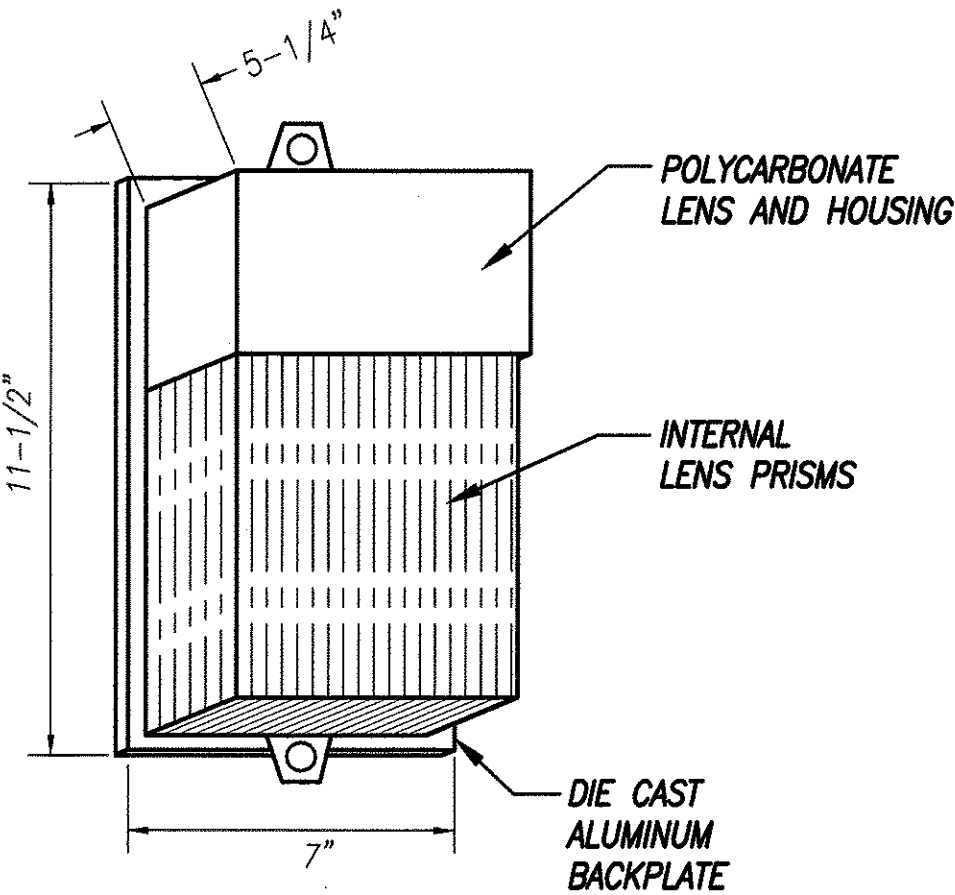


SHOCK ABSORBING, SPRING STEEL BRACKET

U.L. LISTED FOR DAMP/WET LOCATIONS

ALUMINUM REFLECTOR

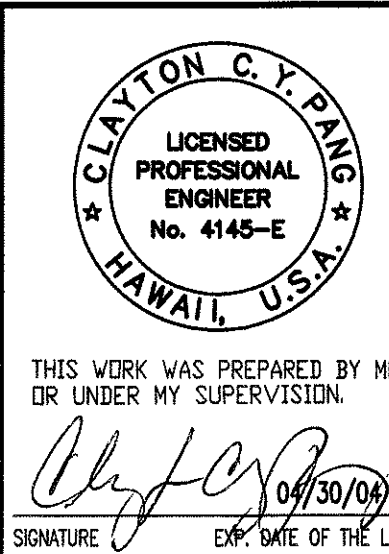
LUMINAIRE TYPE H - 1-18W LOW PRESSURE SODIUM LAMP



DARK BRONZE ENAMEL FINISH AVAILABLE WITH PHOTOCONTROL AND TAMPER-PROOF SCREWS

U.L. LISTED FOR WET LOCATIONS

ORIGINAL SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
NOTE BOOK DESIGNED BY
QUANTITIES BY
CHECKED BY
No.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LUMINAIRE DETAILS,
PANEL SCHEDULE

WAIMEA BASEYARD
Project No. HWY-H-0-05-00M

Scale: As Noted Date: February 2003

SHEET No. 4 OF 4 SHEETS