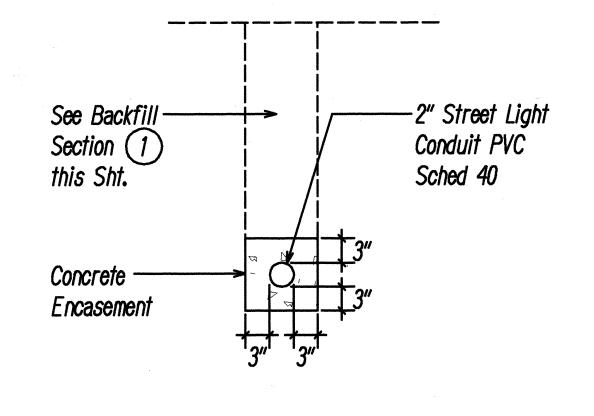


STATE RIGHT-OF-WAY BACKFILL NOTES Not to Scale

Trench Backfill Material "A" Beach Sand, Earth, or Earth and Gravel. If Earth and Gravel used, the maximum shall contain not more than 50% by volume of rock particles. Maximum 8" loose fill per lift. Obtain 95% compaction for each lift.

Concrete - 3" Encasement. 3000 PSI Compressive Strength @ 3 Days.

Base Course \$ Sub-base Course per 1994 State Standard Specifications for Highway Construction.



SECTION (A)

DUCT SECTION DETAILS Not to Scale

CAUTION-STATE TRAFFIC SIGNAL AND/OR CAUTION-STATE TRAFFIC SIGNAL AND/OR HWY LIGHTING BURIED BELOW HWY LIGHTING BURIED BELOW −1 ½" Series "C" —5 Mils Thick (Min.) Black Letters Plastic Warning Tape

1. The metal detectable yellow plastic warning tape shall be a minimum 5 mils thick and 4" wide with a continuous metallic backing and corrosion resistant 1± mil thick foil core. the message on the tape shall read, "CAUTION - STATE TRAFFIC SIGNAL AND/OR HWY LIGHTING BURIED BELOW", utilizing 1 1/2 inches series "c" black lettering. The message will be repeated with a 4 1/4" spacing between top line of message and start of next



General Electrical Notes

- Electrical Work shall be New Unless Otherwise Noted.
- "Wiring" Indicates Insulated Wires in Conduit.
- Contractor shall Tone to Determine Exact Location of Existing Utilities \$ Adjust His Work Accordingly.
- The Locations of the Various Existing Utilities Shown on the Contract Drawings were Determined on the Basis of Best Available Information. Therefore, No Assurance is Provided that the Actual Locations will be Precisely as Shown on the Contract Drawings. The Contractor shall verify the Locations and Depths of the Facilities and Exercise Proper Care in Excavating the Area. The Contractor shall be Held Responsible for any Damages to the Facilities.
- 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 Line. Any Damage Inflicted on Existing Utility Lines Resulting from the Contractor's Operations shall be Immediately Repaired or Restored as Directed by the State at the Contractor's Expense.
- All Electric/Signal Ducts shall have a Minimum Clearance of 1'-0" when Crossing Water/Sewer Lines.
- All Dimensions are Nominal. Verify Exact Dimensions 💠 Equipment Requirements with the Successful Supplier.
- The Contractor shall be Liable for any Damage to Maui Electric Co. Facilities and shall Immediately Report such Damages to Maui Electric Co.'s Trouble Dispatcher at 871-7777.
- All Maui Electric Co. Overhead Facilities shown on these Plans or whose Approximate Locations within the Project Boundaries have been made known by any Reasonable Means at any time to the Contractor shall be Protected at all Times by the Contractor during Construction. Costs for the Damages to Maui Electric Co. Facilities may be Borne by the Contractor. This Repair Work shall be done by Maui Electric Co. or by the Contractor under Maui Electric Co.'s Supervision.
- Any Work Required to Remove/Relocate Maui Electric Co. Facilities shall be done by Maui Electric Co. The Contractor shall be Responsible for Coordination.
- The Project Site Contains Various Maui Electric Co. Lines Operated at 12.47KV and Various other Secondary Voltages. These Lines must Remain Active. Therefore, the Contractor shall Utilize such Methods, Equipment, Etc., Necessary to Protect His Personnel, the Public, State Personnel, Property, Equipment, Etc.
- Due to Ongoing Construction \$ Maintenance, Conditions Indicated in these Drawings may have Changed. Therefore, the Contractor shall verify all Existing Conditions prior to Work.

DIST. NO.	SIAIE	Phoj. No.	YEAR	NO.	SHEETS
HAWAII	HAW.	3400B-02-98	1999	13	15
•			•		
ELECTE	7ICAL	L SYMBOL	_S		
Description					

FISCAL SHEET TOTAL

ELECTRICAL SYMBOLS					
Symbol	Description				
	MECo 2' x 4' Precast Concrete Pullbox with				
	Precast Concrete Cover per MECo				
	Standard Drawings, See Detail C/E-3				
	Street Light, 250 Watt HPS Single Luminaire,				
, 	Metal Standard and Bracket Arm,				
	See Detail A/E-3				
	Street Light, 250 Watt HPS Single Luminaire				
-	and Bracket Arm, Mounted on Utility Pole,				
	See Detail A/E-2				
	existing street light luminaire 🛊 luminaire arm,				
7	mtd on exst wood pole				
— e/ug —	e/ug — existing u.g. elec/signal ductline and wiring				
	remove existing wiring; cap ends of				
× e/ug ×	existing elec/signal ducts and abandon				
	in place				
SL	Street Light Ductline and Wiring				
—Е/ОН—	Overhead Elec/Signal Lines to be Provided				
L/OII	by Respective Utility Company				
e/oh	existing overhead elec/signal lines				
	existing overhead elec/signal lines to be				
^ G/ O// ^	removed by respective utility co.				
	Duct Section Designator, Type "A" Ductline and				
	Type "2L" Duct Indicated, see this Sheet for				
(A)(2L)	Duct Sections				
X	"X" Indicates Remove				
<u> </u>	"X" Indicates Remove				

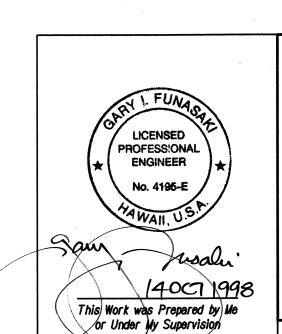
FED. ROAD

Street Light Standard Identification Legend:

*	<u>Legend</u>		<u>Description</u>		
,	1	34+94	Station Number		
	2	2	Street Light Pole Number		
	3	8'	Pole Clear Setback From Edge of Pavement		
	4	8'	Luminaire Arm Span in Feet		
	5	TB	Pole Base Mounting Type, See Note No. 2 Below		
	6	<i>30'</i>	Luminaire Mounting Height Above Pavement		

Symbol Notes:

- "X" Through dashed item indicates existing item to be removed.
- 2. "TB" Indicates transformer base mounting. "PM" Indicates joint pole mounted.



STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** HIGHWAYS DIVISION

ELECTRICAL SYMBOLS, NOTES **DUCT SECTION DETAILS**

WAIEHU BEACH ROAD TWO-WAY LEFT TURN Makaala Drive to lao Stream Bridge Project NO. 3400B-02-98 Scale: AS NOTED Date: OCT 98

SHEET No. E-1 OF 3

SHEETS

