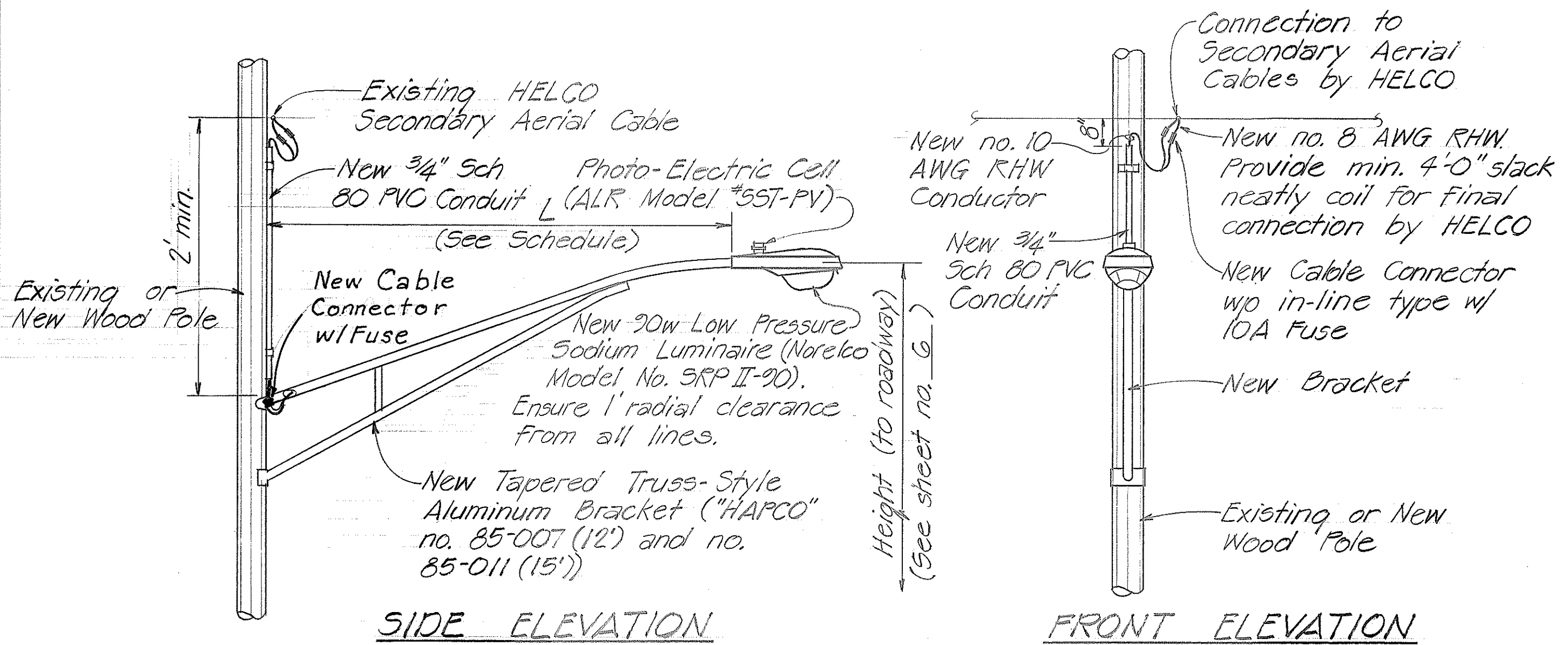
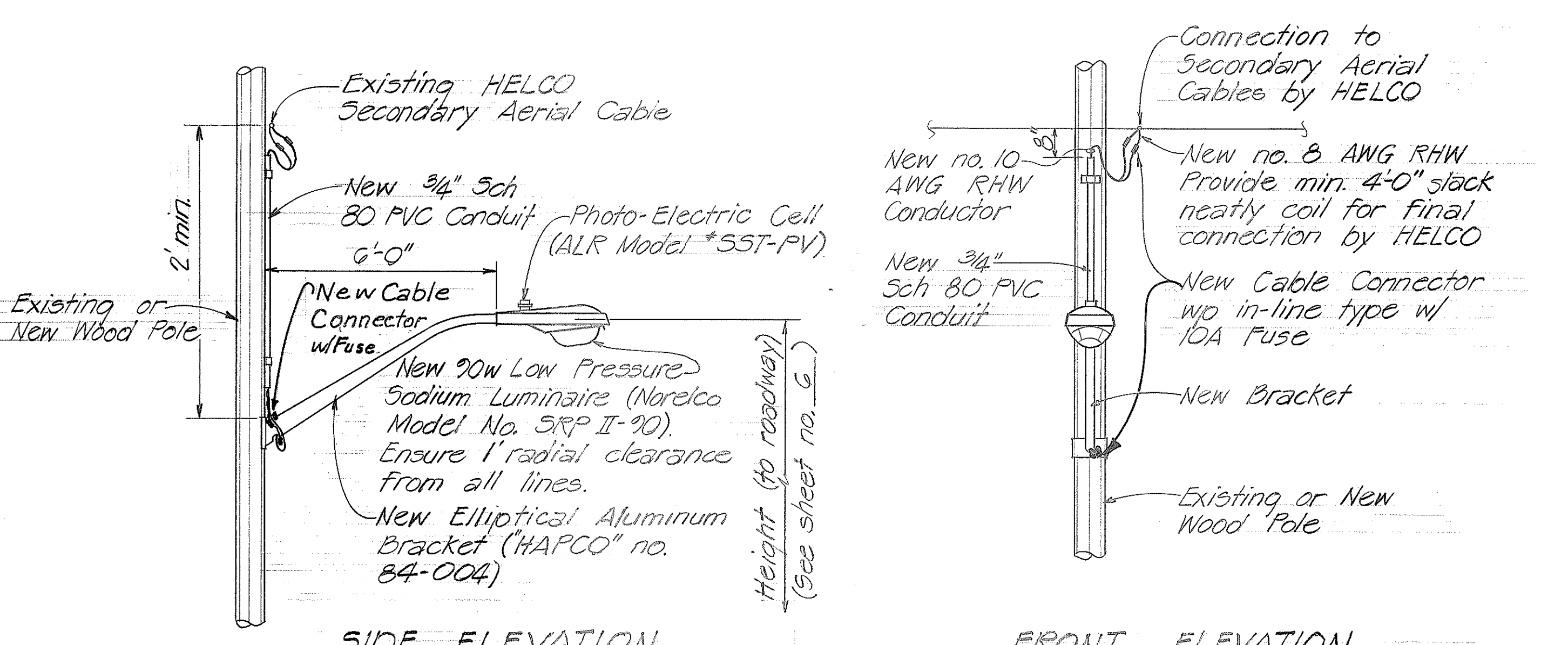


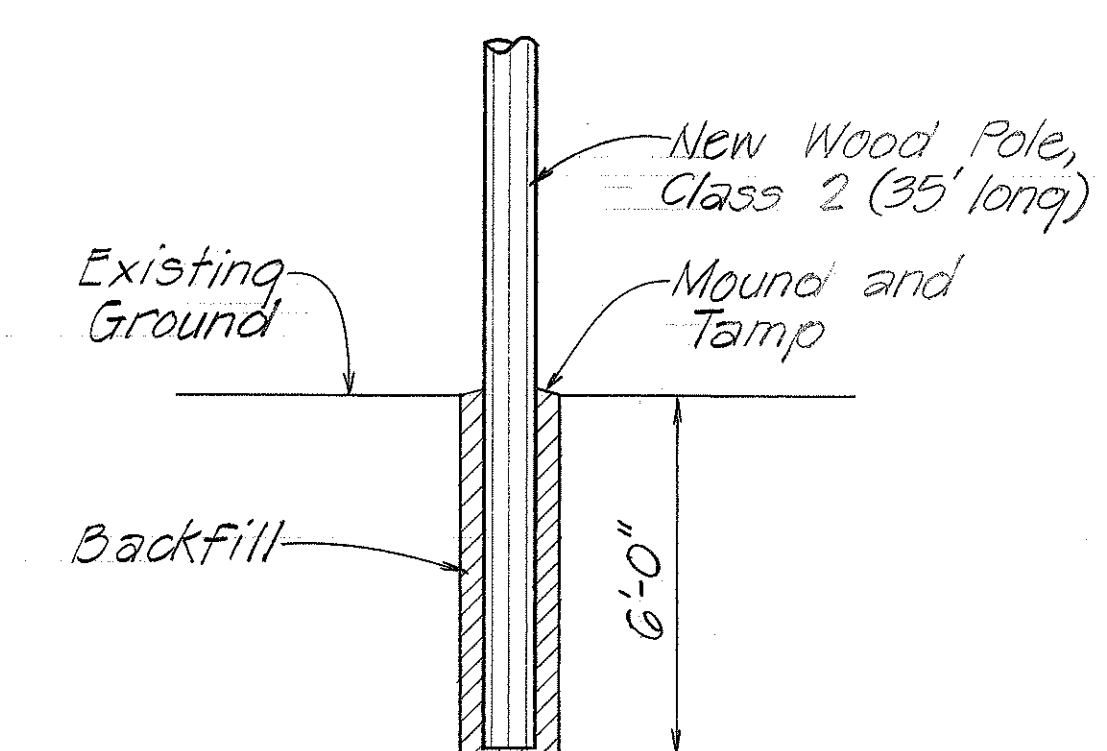
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-01-89	1990	3	6



HIGHWAY LIGHT DETAIL
Not to Scale

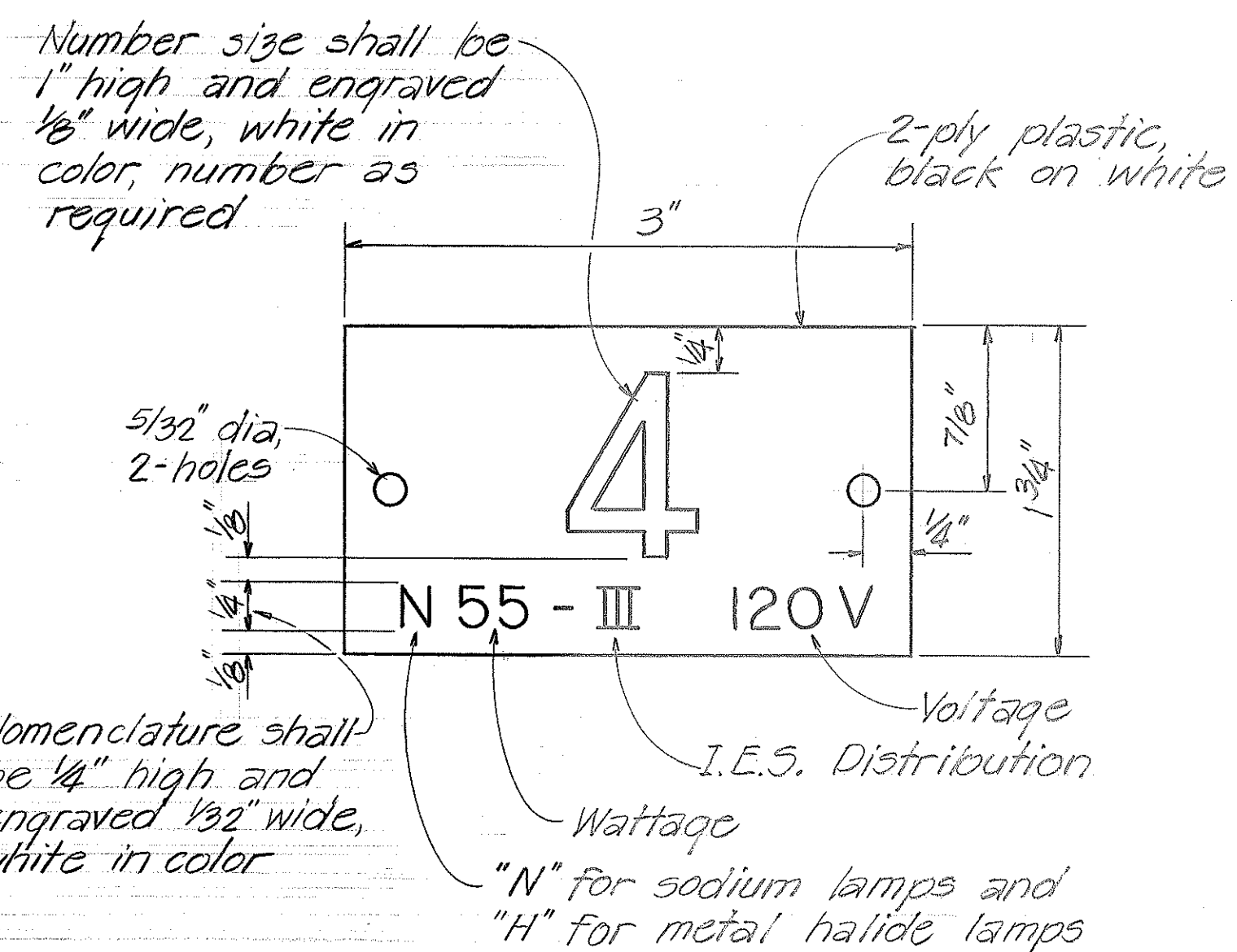


HIGHWAY LIGHT DETAIL
Not to Scale



TYP. POLE FOOTING DETAIL
Not to Scale

- NOTES**
- The contractor shall inscribe the month and year of installation of photo cells and lamps. All P.E.'s shall have the north index facing north.
 - All work done, luminaires, ballasts, lamps, photocells, fuses and other street light appurtenances shall be warranted for a minimum of one (1) year from date of dedication to the county.



IDENTIFICATION TAG DETAIL
Not to Scale

- NOTE**
- Attach to poles with no. 7 stainless steel drive screws.
 - Payment for I.D. Tag shall be considered incidental to various items of work.

I.D. TAG SCHEDULE	
LOC. NO.	TAG I.D.
1	SH203
2	SH466
3	157
4	262
5	136
6	88
7	153
8	SH142
9	SH106

POLE/BACKET SCHEDULE					
LOCATION NO.	POLE LENGTH (FT.)		BRACKET LENGTH (FT.)		LUMINAIRE (WATTS)
	NEW	EXIST.	TRUSS-STYLE	ELLIPTICAL	
1	35		15		90
2	35		12		90
3		60	12		90
4		70			180
5		55	12		90
6		55	15		90
7		45		6	90
8	35			6	90
9	35		15		90

GENERAL NOTES

- New pole locations shall be staked and approved by the Engineer prior to excavation. Adjustment of pole locations in the field will be required to clear underground and aerial utility lines.
- Contractor shall notify the Project Engineer from Dept. of Transportation, State Highways Division, 72 hours in advance before commencing installation of Highway Lighting Facilities. Phone: 935-3347.
- Contractor shall be responsible for coordinating and informing Hawaii Electric Light Co. of light pole location on site prior to installation of their secondary cables.
- Final acceptance and inspection will be undertaken only after all work has been completed.
- Contractor shall at his expense keep the project and surrounding area from dust nuisance and shall be responsible for cleaning and removal of all silt and debris generated by the excavation work and deposited and accumulated within ditches, drain pipes and on public roadways.
- All existing utilities whether or not shown on plans shall be protected at all times during construction and any damages to them shall be repaired and paid for by the contractor. Contractor's attention is called to Section 107.21, 'Contractor's Responsibility for Utility Property and Services,' of the 'Hawaii Standard Specifications for Road and Bridge Construction.'
- All street light I.D. Tag numbering for wooden poles shall be in accordance with HELCO's numbering system. (See Identification Tag Detail).
- Secondary Aerial Cables to new poles will be furnished and installed by HELCO.
- Contractor shall procure all permits and pay any necessary fees for the lawful prosecution of the work. Costs are incidental to the various items of work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL LIGHTING DETAILS

HIGHWAY LIGHTING
VARIOUS LOCATIONS IN THE PUNA DISTRICT
PROJ. NO. HWY-H-01-89
Scale: Not to Scale Date: March 1989

SHEET NO. 1 OF 1 SHEETS