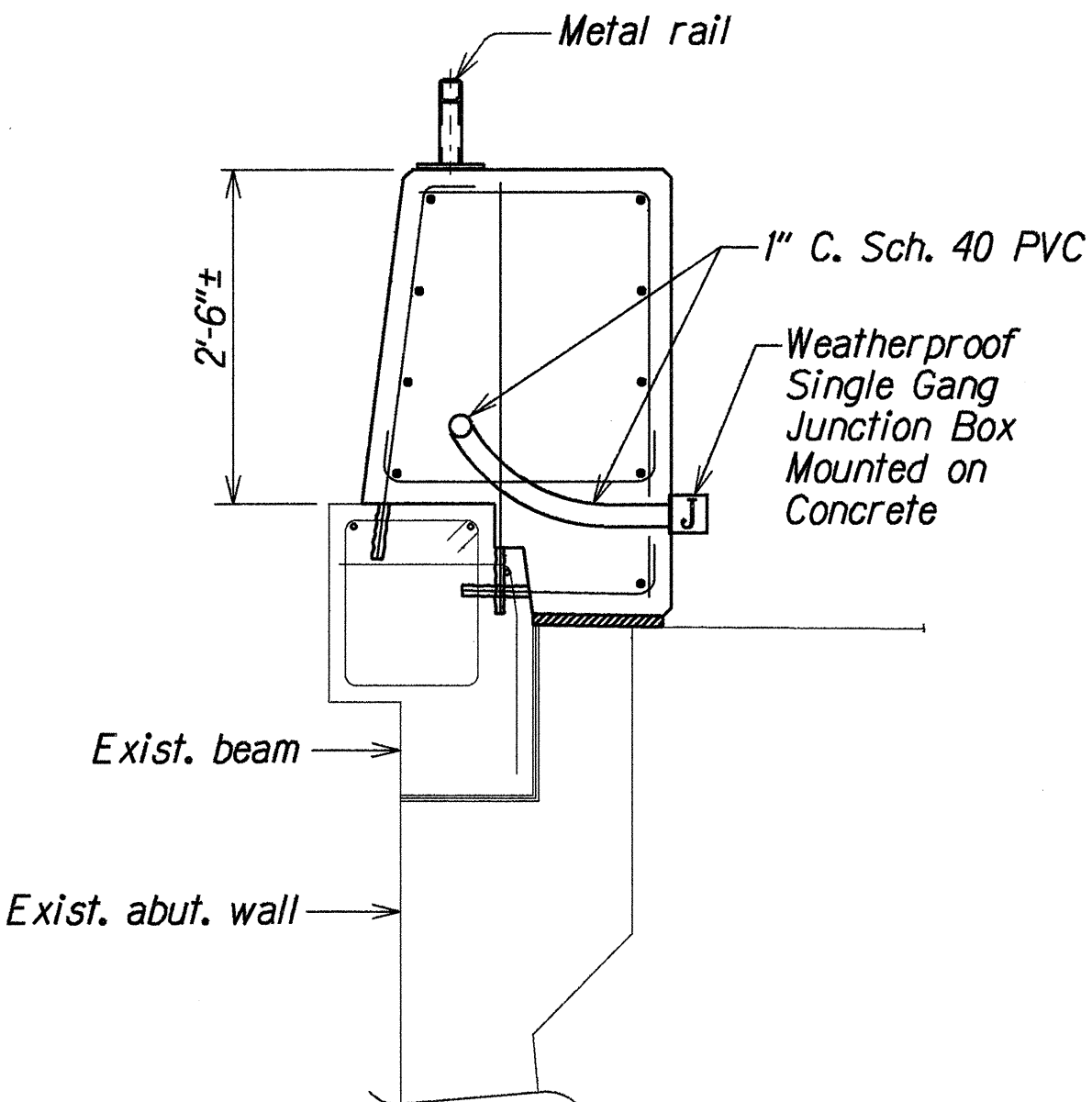
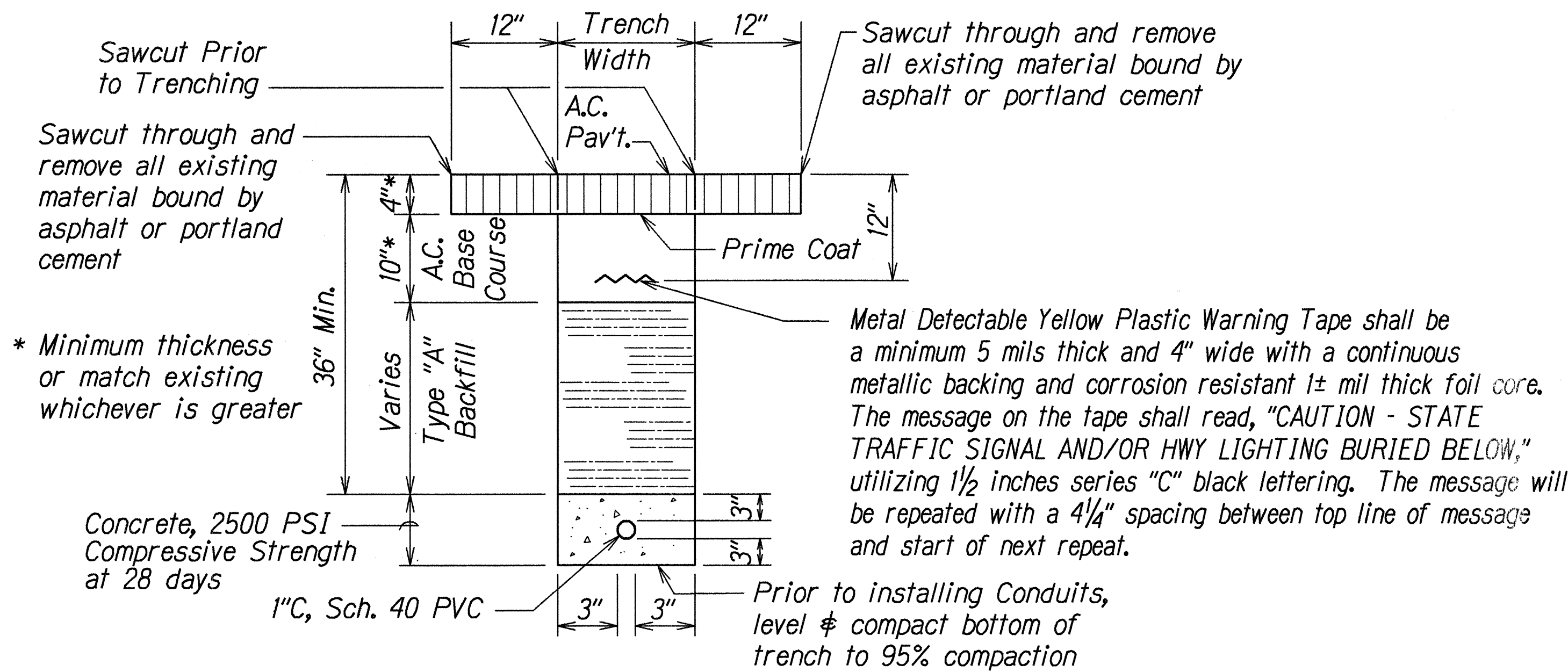


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-H20(3)	1998	ADD. 41	51

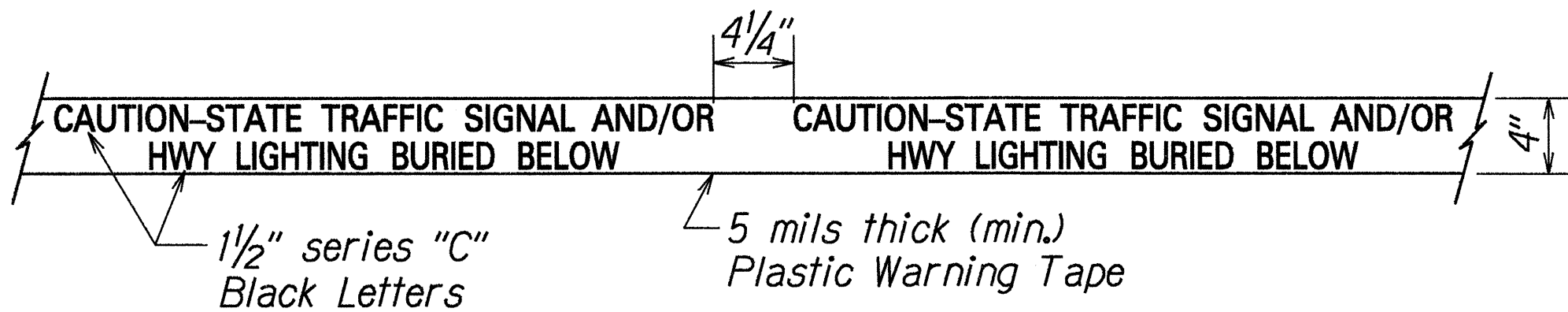


JUNCTION BOX MOUNTING



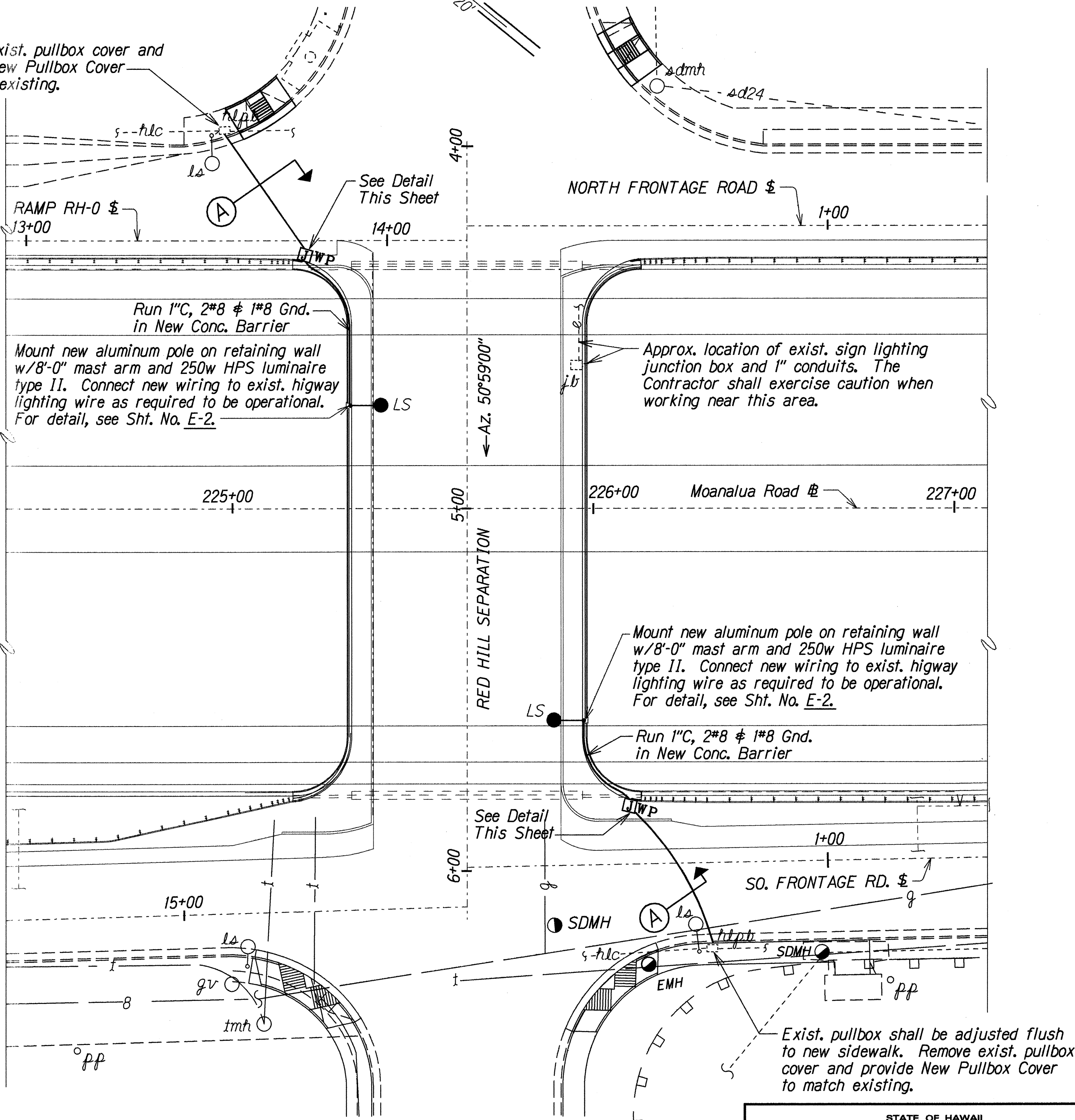
Trench Backfill Material "A" Beach Sand, Earth, or Earth and Gravel. If Earth and Gravel used, the maximum shall contain not more than 50% by volume of rock particles. Maximum 8" loose fill per lift. Obtain 95% compaction for each lift.

DUCT SECTION
Not to Scale



METAL DETECTABLE YELLOW PLASTIC WARNING TAPE

Remove exist. pullbox cover and provide New Pullbox Cover to match existing.



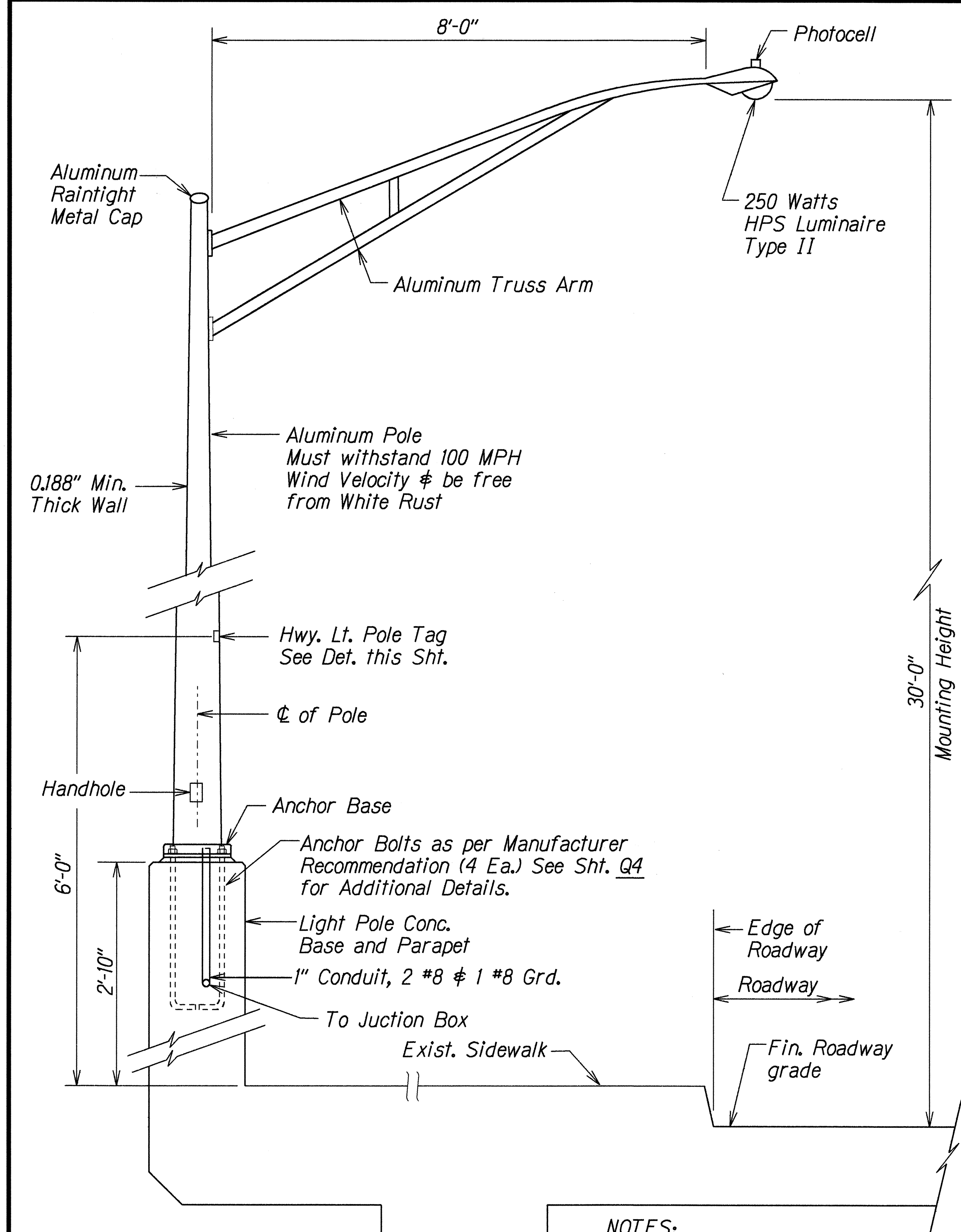
ELECTRICAL PLAN - NEW

Scale: 1" = 20'-0"

10/5/98	Revised Electrical Plan and Added Junction Box Mounting & Warning Tape Details.
DATE	REVISION

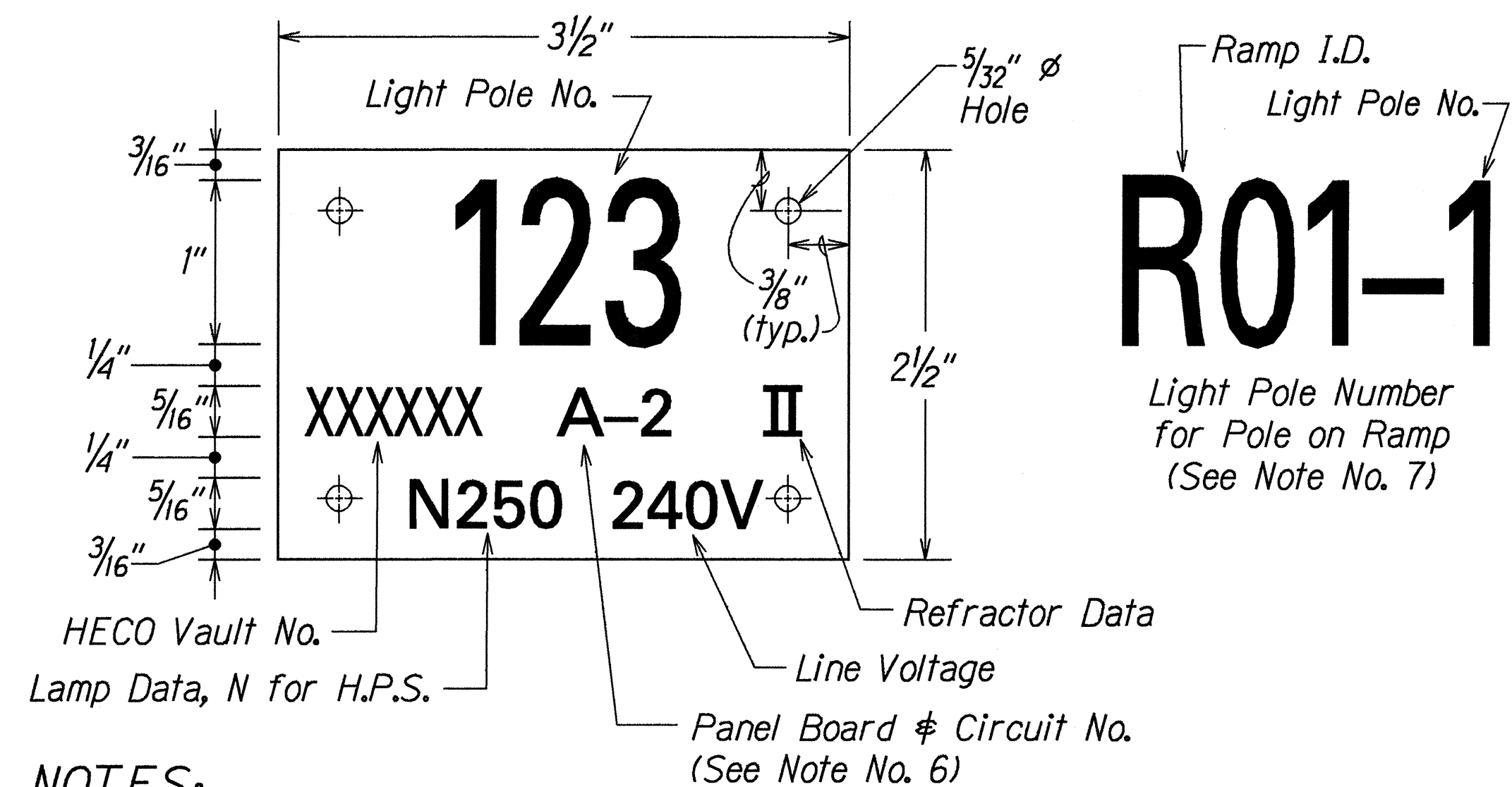
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
HIGHWAY LIGHTING PLAN
MOANALUA FREEWAY RAMPS RESURFACING
Vicinity of Ala Kapuna to Vicinity of Ala Napunani
Fed. Aid Project No. STP-H20(3)
Scale: 1"=20' Date: June, 1998
SHEET No. E-1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-H201(3)	1998	ADD. 42	51



- NOTES:**
1. Conduit installed in Retaining Wall shall be considered incidental to Highway Lighting Standard Mounted on Retaining Wall.
 2. Conduit from Existing Lighting Pullbox to New Junction Box shall be paid for under Item No. 622.5031 - One 1-Inch PVC Conduit, Schedule 40, Concrete Encased for Highway Lighting System.
 3. All New Wiring and Connections to Existing Highway Lighting System and Junction Boxes shall be considered incidental to Highway Lighting Standard Mounted on Retaining Wall.

**TYPICAL LIGHT STANDARD
INSTALLATION ON RETAINING WALL**
Not to Scale



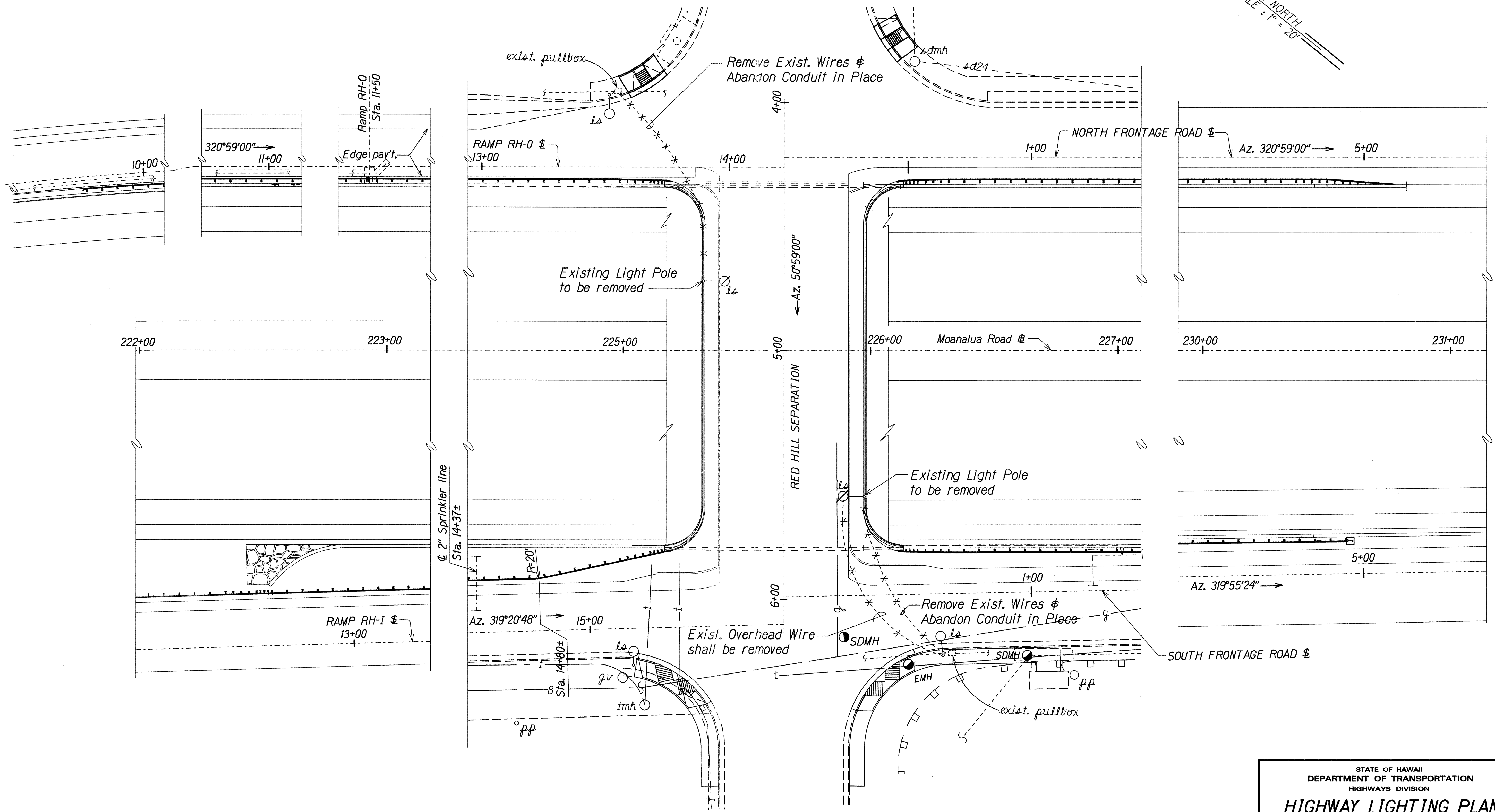
- NOTES:**
1. Use 3 Ply Laminated Flexible Plastic Black-White-Black Thickness:
0.010" - Black Cap Sheet
0.052" - White Base Sheet
0.010" - Black Base Sheet
 2. Light Number Size shall be 1-inch high and engraved 1/8" wide, White in color (Number as required).
 3. Nomenclature Size shall be 5/16" high and engraved 1/32" wide, White in color (HECO Vault No., Panel Board & Circuit No., Line Voltage, Lamp Data and Refractor Data as required).
 4. Attach to Aluminum and Steel Poles with no. 8 Stainless Steel, 1/2" long Drive Screws in 1/8" drilled hole. Attach to Wood Pole with 4D Aluminum Nails.
 5. Numbers are inscribed by cutting through "Black Cap Sheet" to expose "White Letters".
 6. Nomenclature required for systems with two or more circuits. Letter indicates Panel Board and Number indicates Circuit.
 7. For Light Poles installed on Ramp, assign Number to include Ramp I.D. and Pole Number. Legend may be less than one inch in height.
 8. Light Numbers shall be obtained from the State. Use an alphabet suffix to designate lights mounted on the same pole (e.g. 123A & 123).

**HIGHWAY LIGHT POLE TAG DETAIL
METERED SYSTEM**
Not to Scale

10/5/98	Revised Typical Light Standard Installation on Retaining Wall Detail and Notes.
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
HIGHWAY LIGHTING DETAILS	
MOANALUA FREEWAY RAMPS RESURFACING	
Vicinity of Ala Kapuna to Vicinity of Ala Napunani	
Fed. Aid Project No. STP-H201-(3)	
Not to Scale	Date: June, 1998
SHEET No. E-2 OF 2 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-H201(3)	1998	ADD. 42S-1	51



DESIGNED BY	DATE
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

ELECTRICAL PLAN - DEMOLITION
Scale: 1" = 20'-0"

10/5/98	Sheet Added to Contract Plan Set for Additional Details per Addendum No. 1.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING PLAN

MOANALUA FREEWAY RAMP RESURFACING
Vicinity of Ala Kapuna to
Vicinity of Ala Napunani
Fed. Aid Project No. STP-H201(3)
Scale: 1"=20' Date: Oct., 1998

SHEET No. E-2S-1 OF E2 SHEETS