

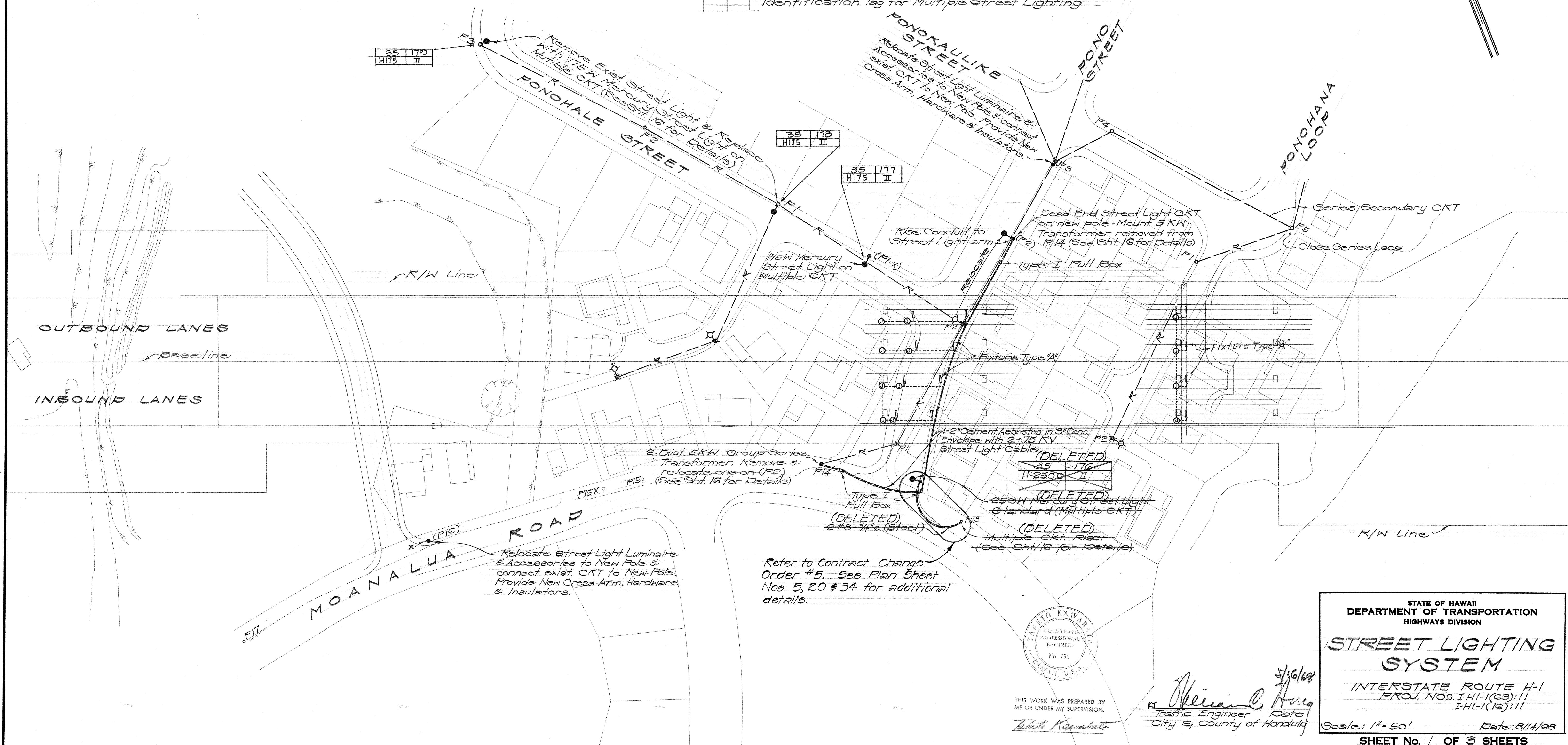
1. The Contractor shall notify the City and County Division of Street Lighting at least one week prior to doing any work on the C & C System.
2. The Contractor shall relocate, remove, existing C & C street lighting equipment as required. Sufficient cable length shall be provided at relocated equipment to permit connection to H.E.Co. secondary cables. The cable shall be considered incidental to the various items of work and no payment will be made thereof.
3. Relocated C & C luminaires shall be mounted at the same height as the existing C & C luminaires.
4. Conduits on structures shall be incidental to the various items of work and no payment will be made thereof.
5. All street lighting equipment removed and not reused shall be disposed of by the Contractor.

6. All work related to underpass lighting shall be measured and paid for under Proposal Item 112.030 "Highway Lighting System, Multiple Circuit for Underpass". (See Special Provisions)

- Hawaiian Electric Pole to remain
- ✕ Hawaiian Electric Pole to be removed
- New Hawaiian Electric Pole
- ⊙ ✕ Existing Street Light Equipment to be removed (Street Light Luminaire, Cross Arm, Hardware & Insulators)
- — New Mercury Luminaire & Bracket on Joint Pole
- — Asbestos Conduit, 2" encased in Concrete (Underground) or as noted
- R — Overhead Street Light System to be removed
- — Overhead Line to remain
- — New Mercury Luminaire on Metal Standard
- ① Cast Metal Junction Box
- Identification Tag for Multiple Street Lighting

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7-41-1(63)41 7-41-1(64)41	1968	14	28

TRUE NO
Scale: 1"=50'



Refer to Contract Change
Order #5. See Plan Sheet
Nos. 5, 20 & 34 for additional
details.



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

KS Heleia C. Hove 5/16/6
Traffic Engineer Date
City & County of Honolulu

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**STREET LIGHTING
SYSTEM**

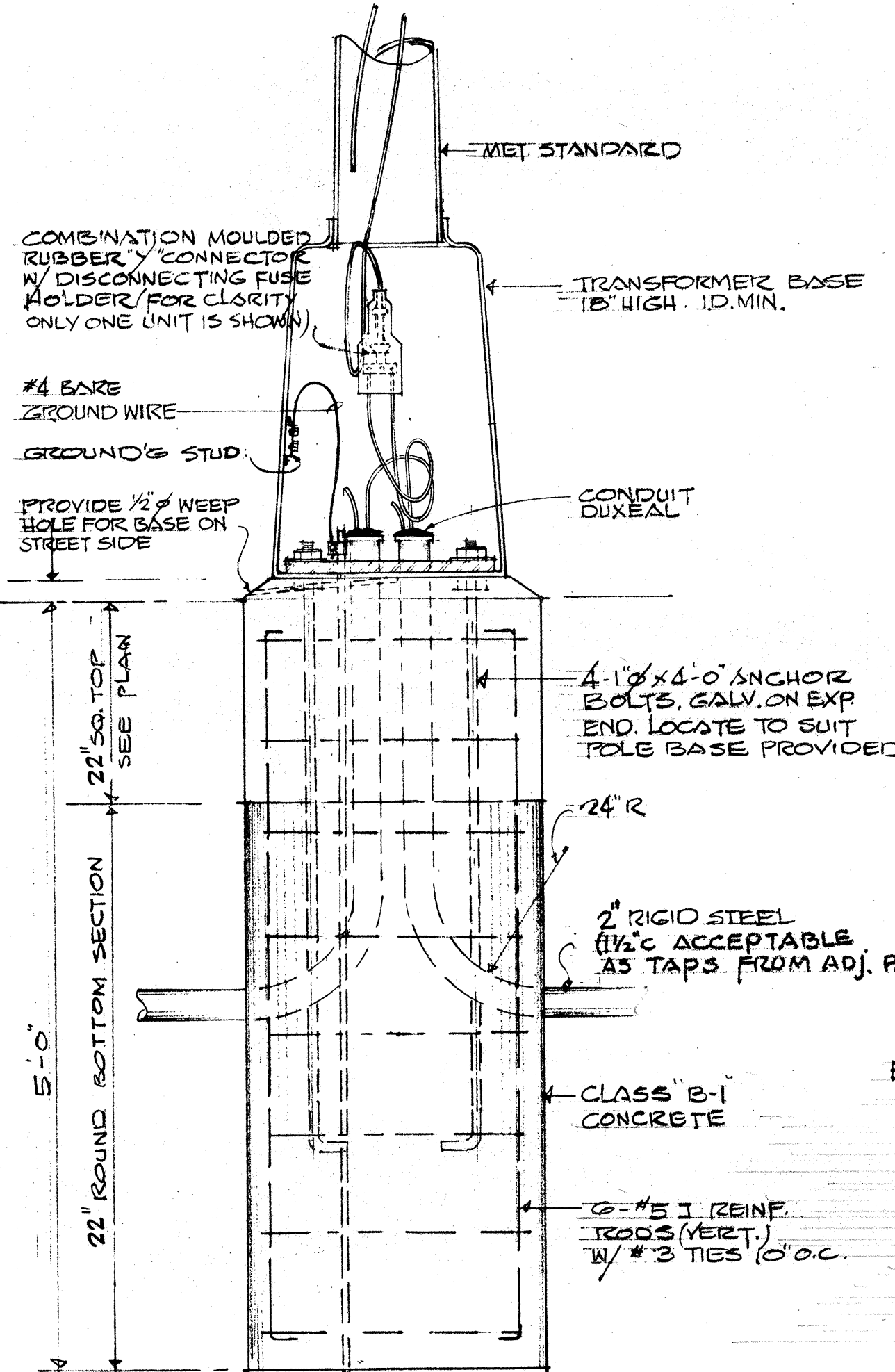
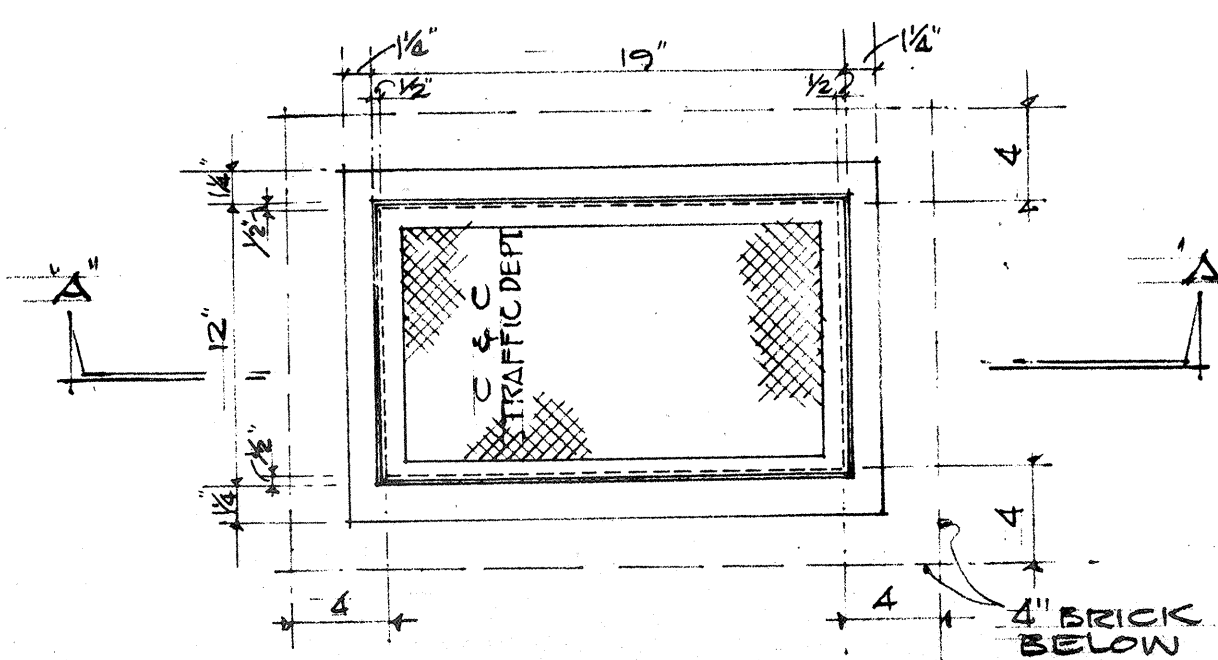
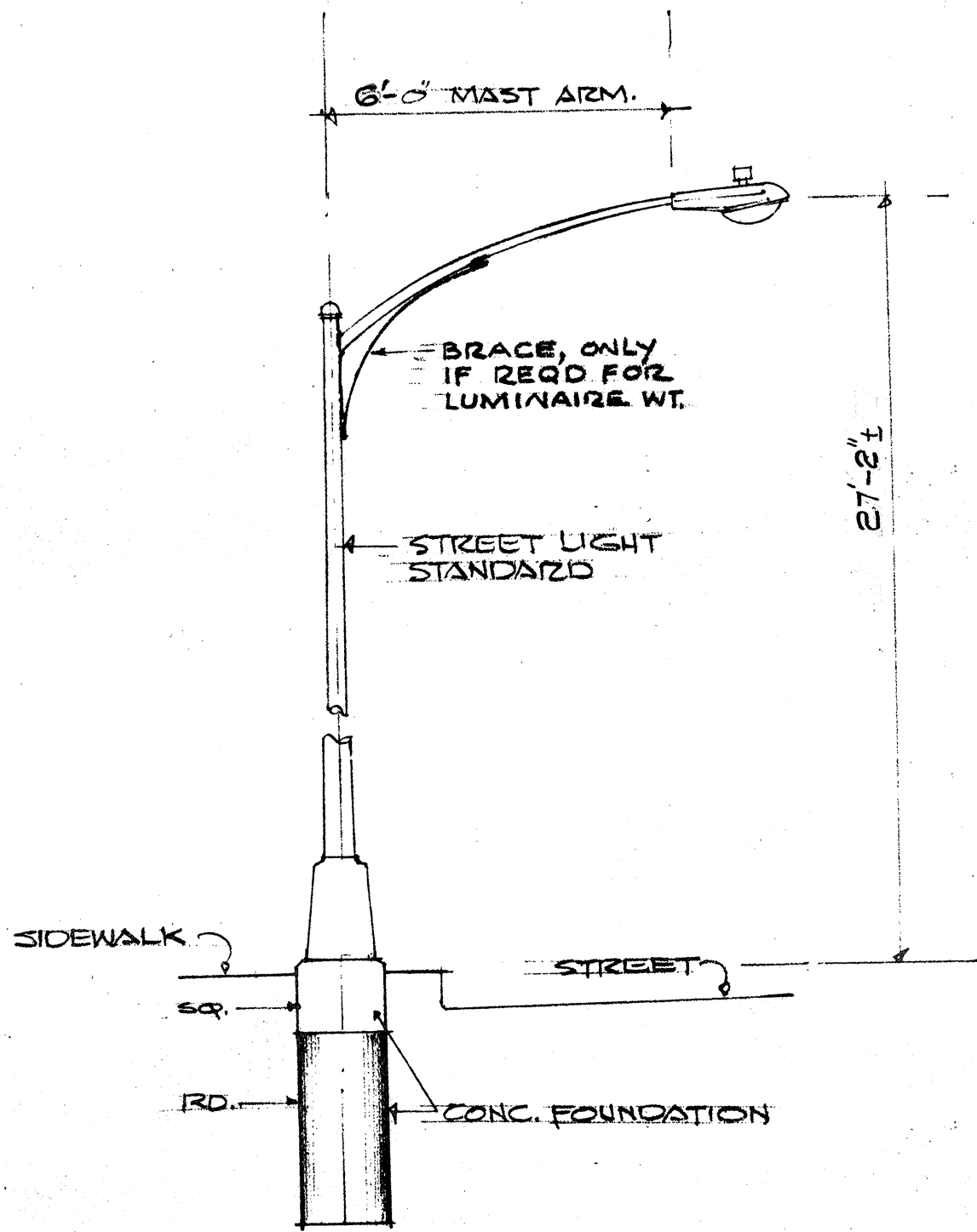
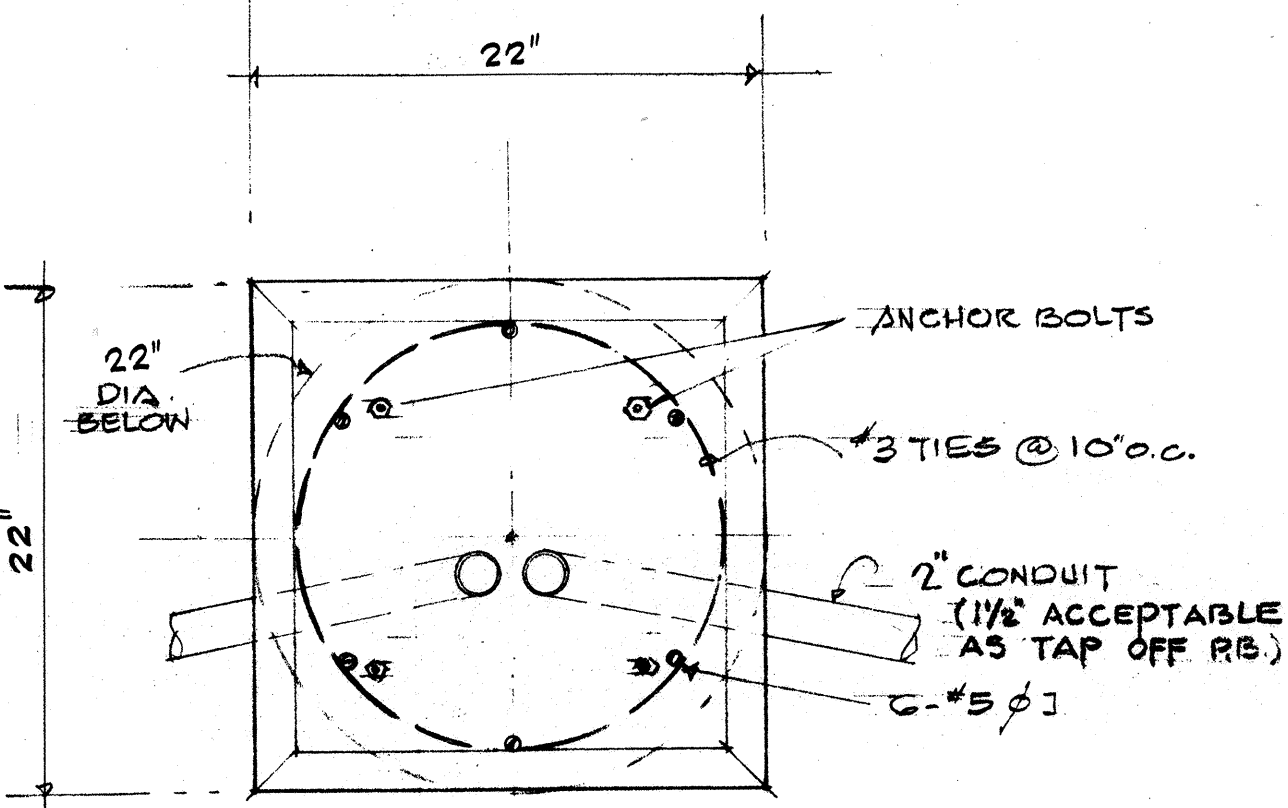
INTERSTATE ROUTE 4-I
PROJ. NOS. I-41-1(23):11
I-41-1(16):11

Scale: 1" = 50'

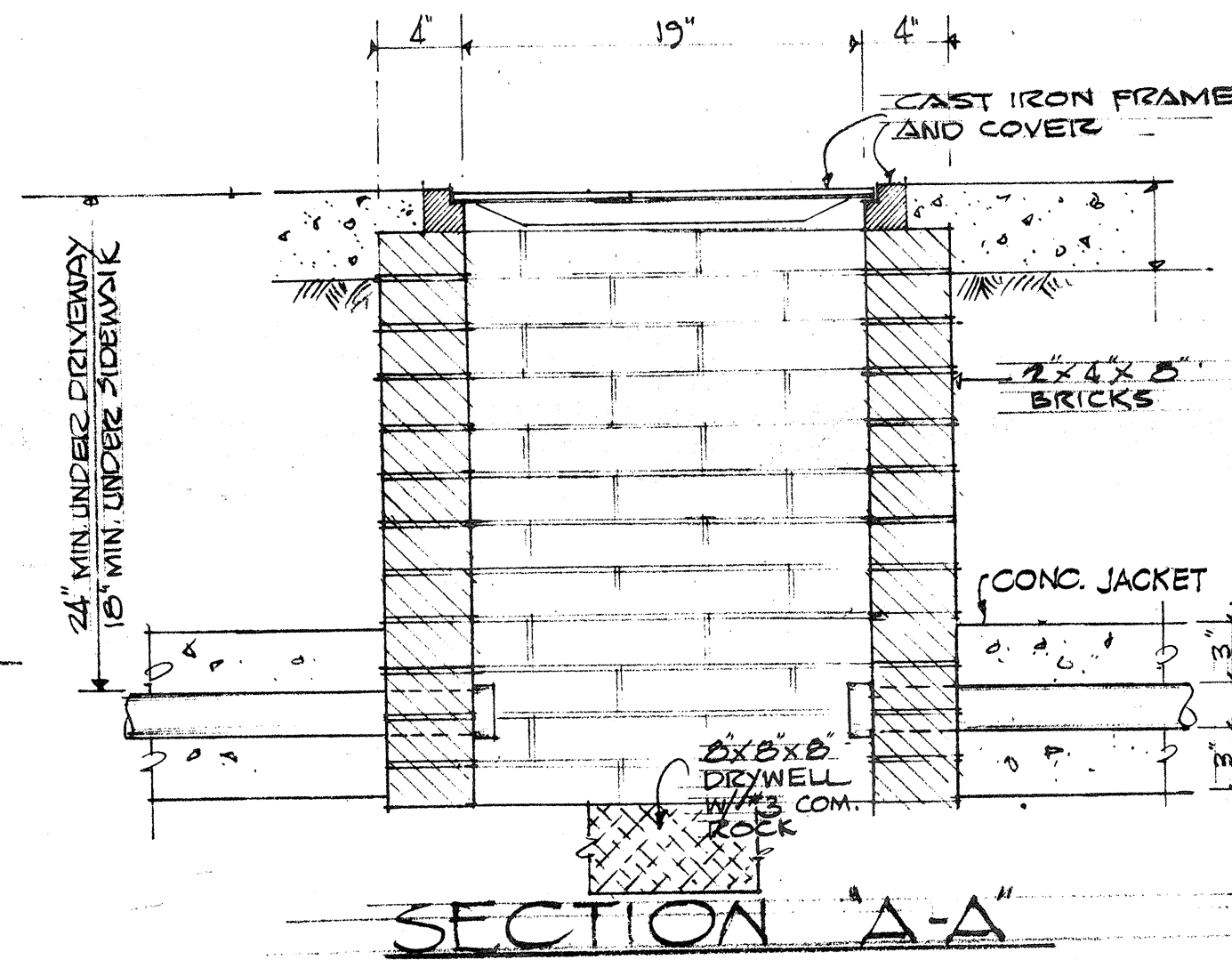
Date: 8/14/68

SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHI-1(63)11 IHI-1(16)11	1968	15	28

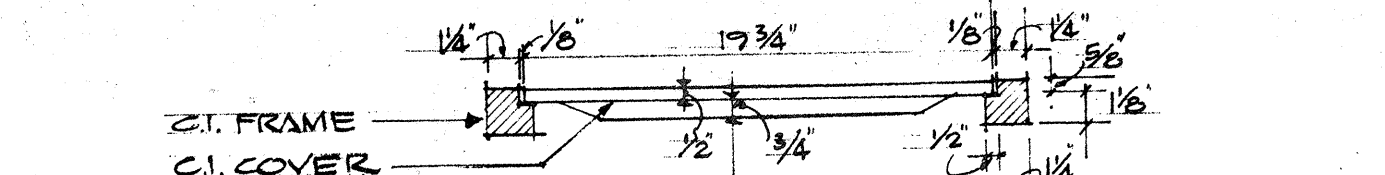


TYPICAL STREET LIGHT & STANDARD ELEVATION
N.T.S.

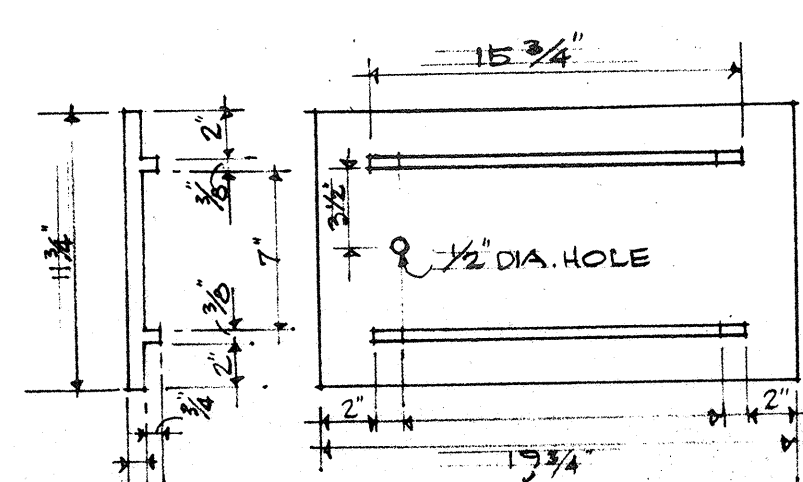


SECTION

METAL POLE DETAILS
NOT TO SCALE



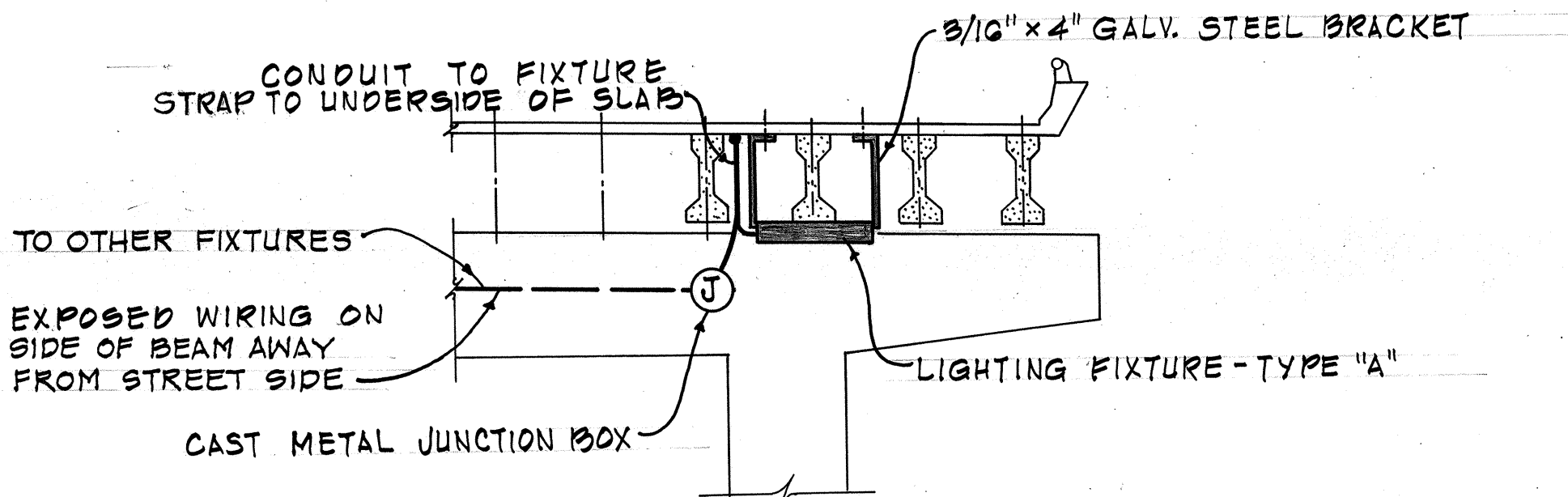
C.I. COVER & FRAME SECTION



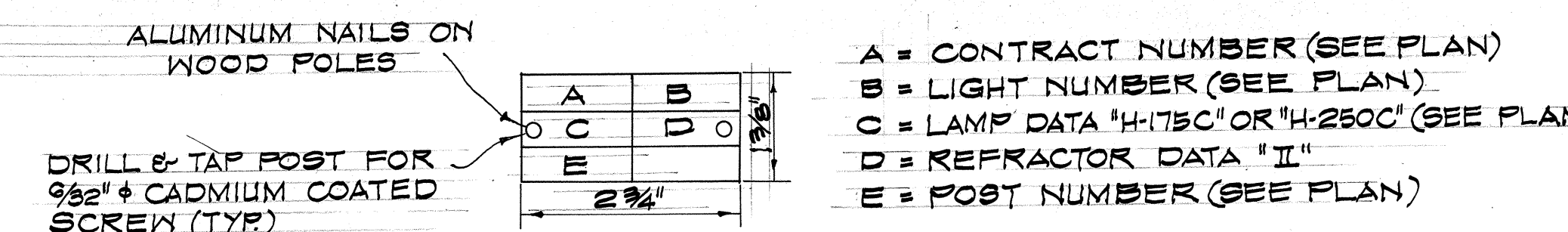
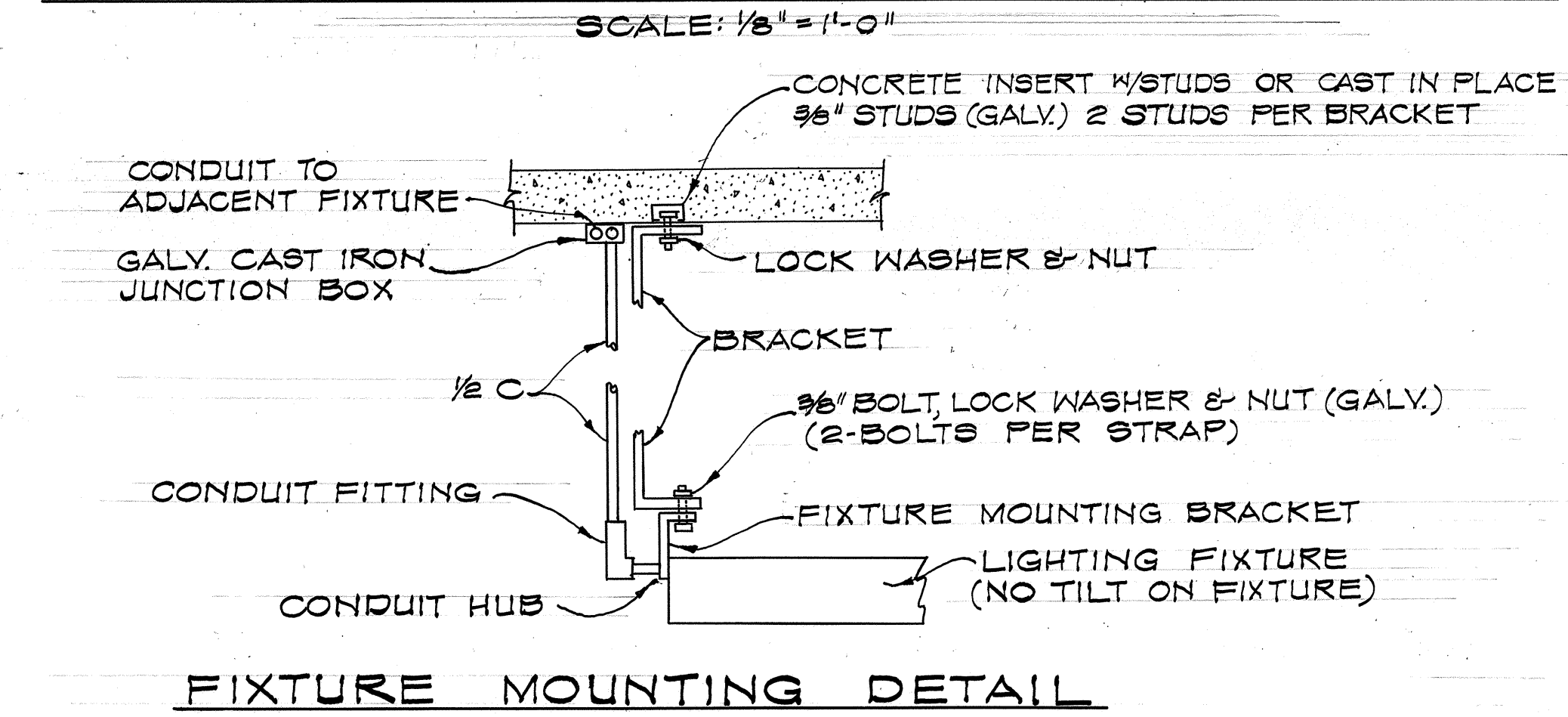
BOTTOM VIEW OF COVER PLATE

DETAILS FOR TYPE I SLIP
PULL BOX

NOTE: ALL WORK RELATED TO UNDERPASS LIGHTING SHALL MEET THE REQUIREMENTS OF SECTION 112-"HIGHWAY LIGHTING" (SEE SPECIAL PROVISIONS)

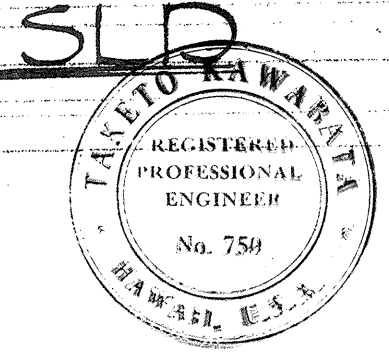


TYPICAL WIRING OF FIXTURES AT WAIMALU VIADUCT



NOTE:
1. TAG SHALL BE MADE FROM 0.040 ALUMINUM SHT.
2. MOUNTING HEIGHT OF TAG = C'-C"
3. LETTERS-NO. 5 REDUCTION, 1/8" STENCILLED

IDENTIFICATION TAG FOR
MULTIPLE STREET LIGHTING



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
T. K. Kawaiata

APPROVED: *K. L. Long* 5/16/68
TRAFFIC ENGINEER
CITY & COUNTY OF HONOLULU

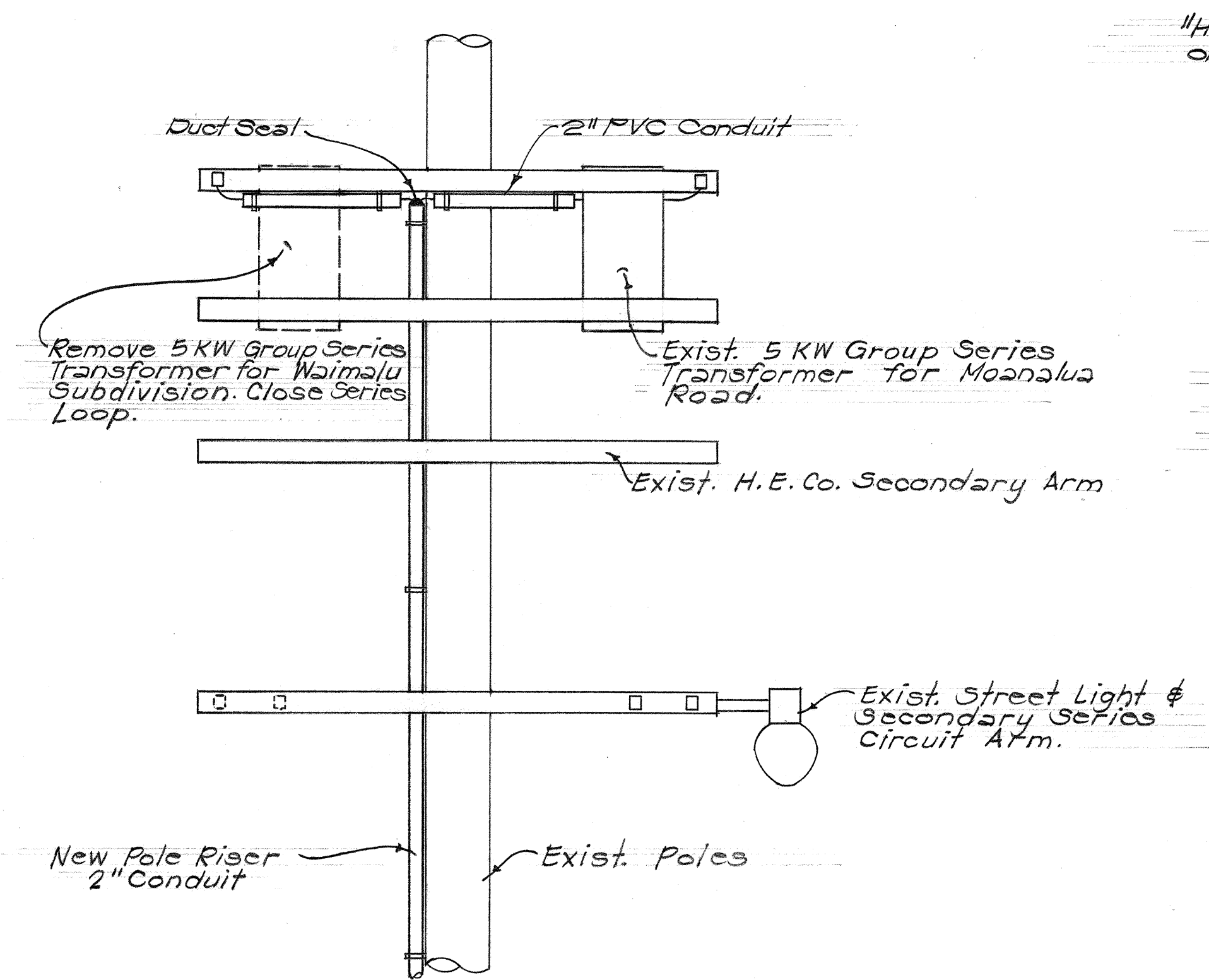
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STREET LIGHTING
DETAILS

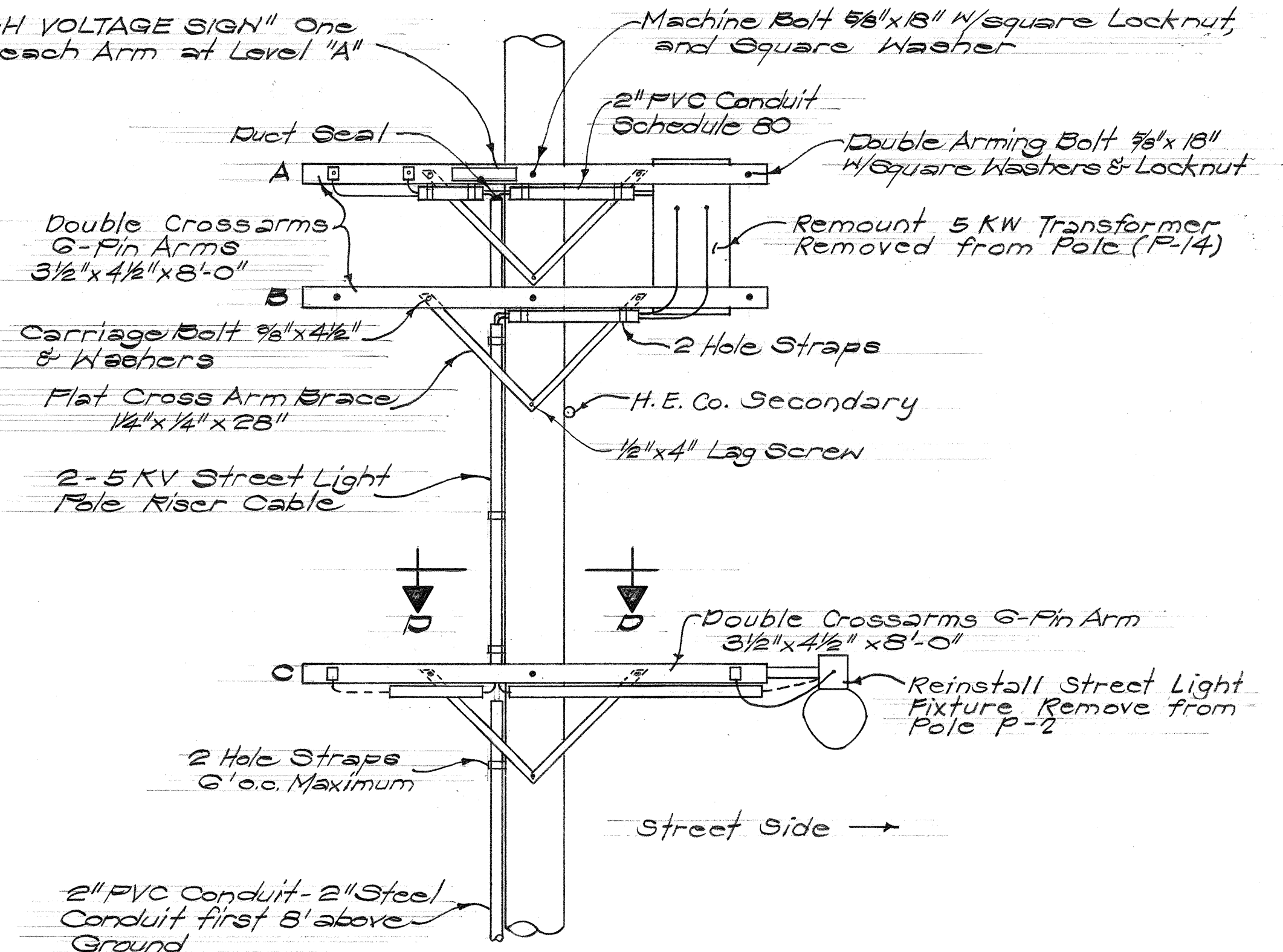
INTERSTATE ROUTE H-1
PROJ. NOS. IHI-1(63)11
IHI-1(16)11
Scale: As Shown Date: 8/14/68

SHEET No. 2 OF 3 SHEETS

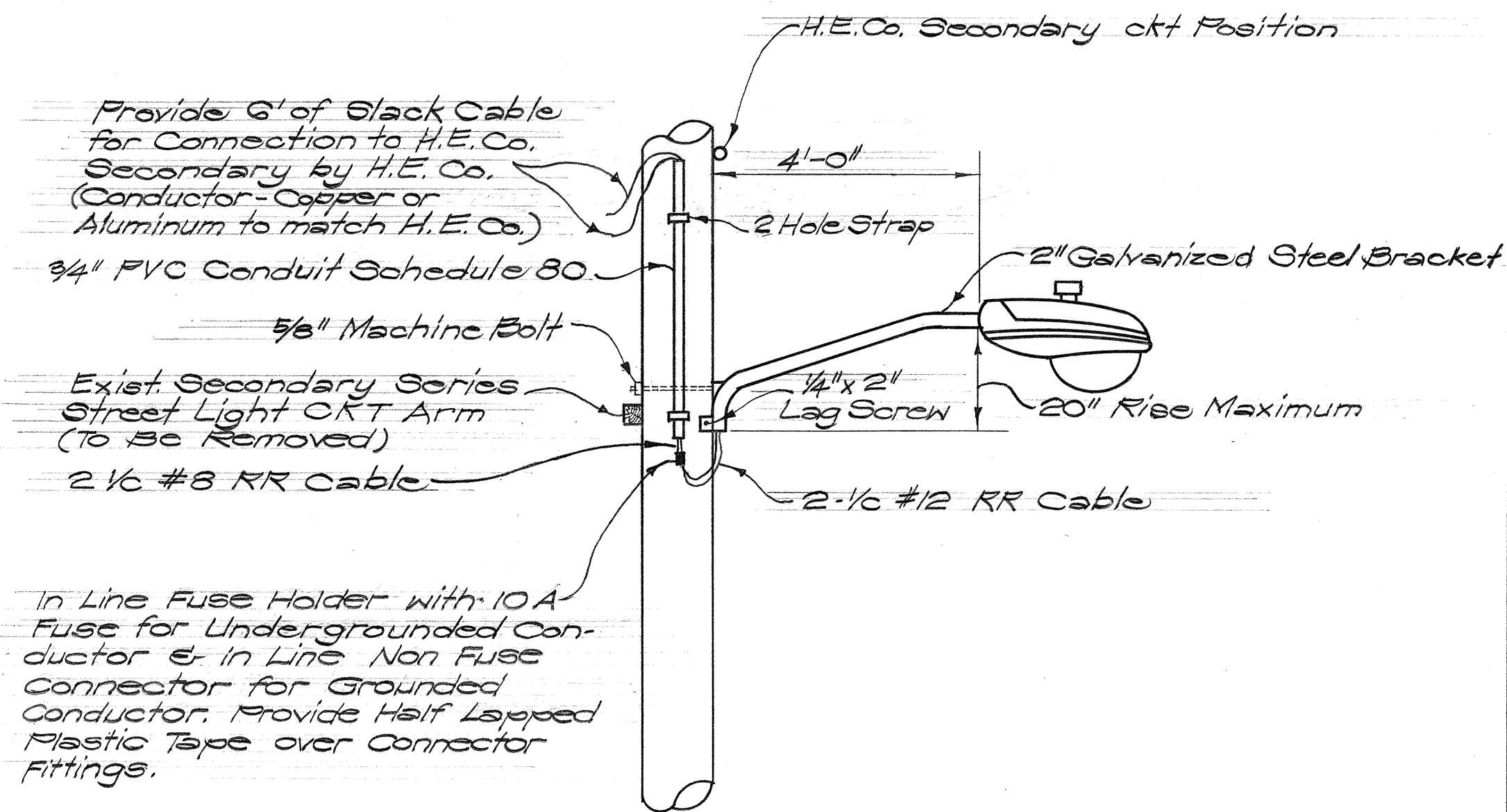
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41-1(23):11 I-41-1(16):11	1968	16	28



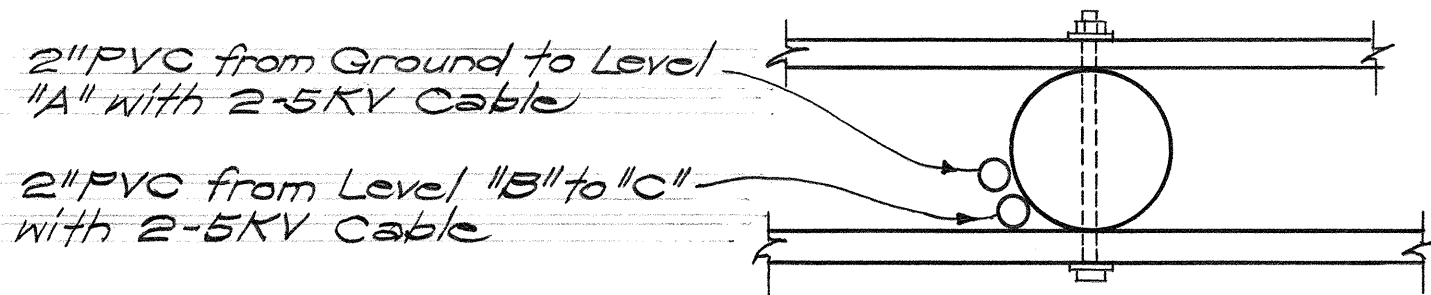
POLE (P-14) MOANALUA ROAD
Scale: 1/2" = 1'-0"



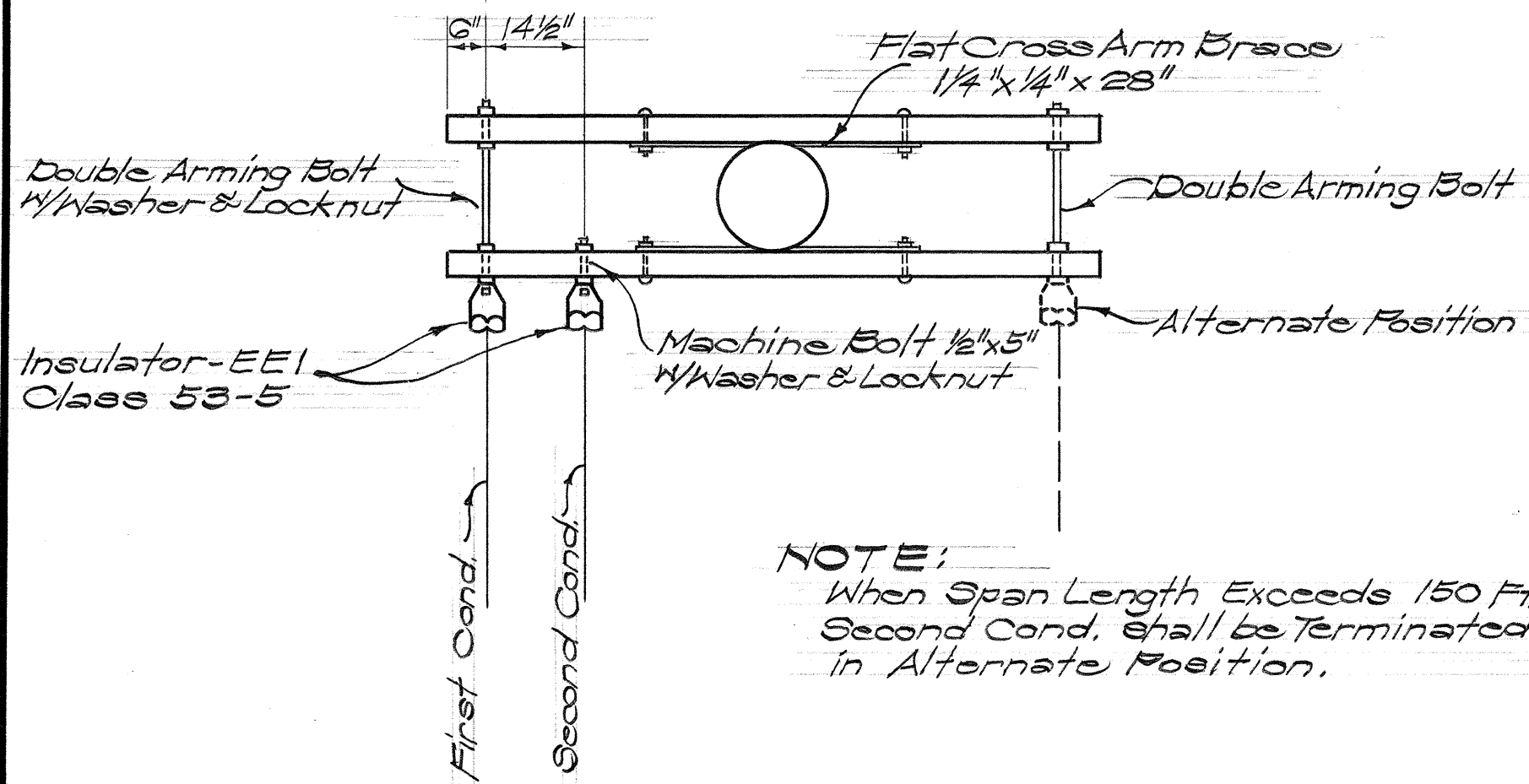
POLE (P-2) PONO STREET
Scale: 1/2" = 1'-0"



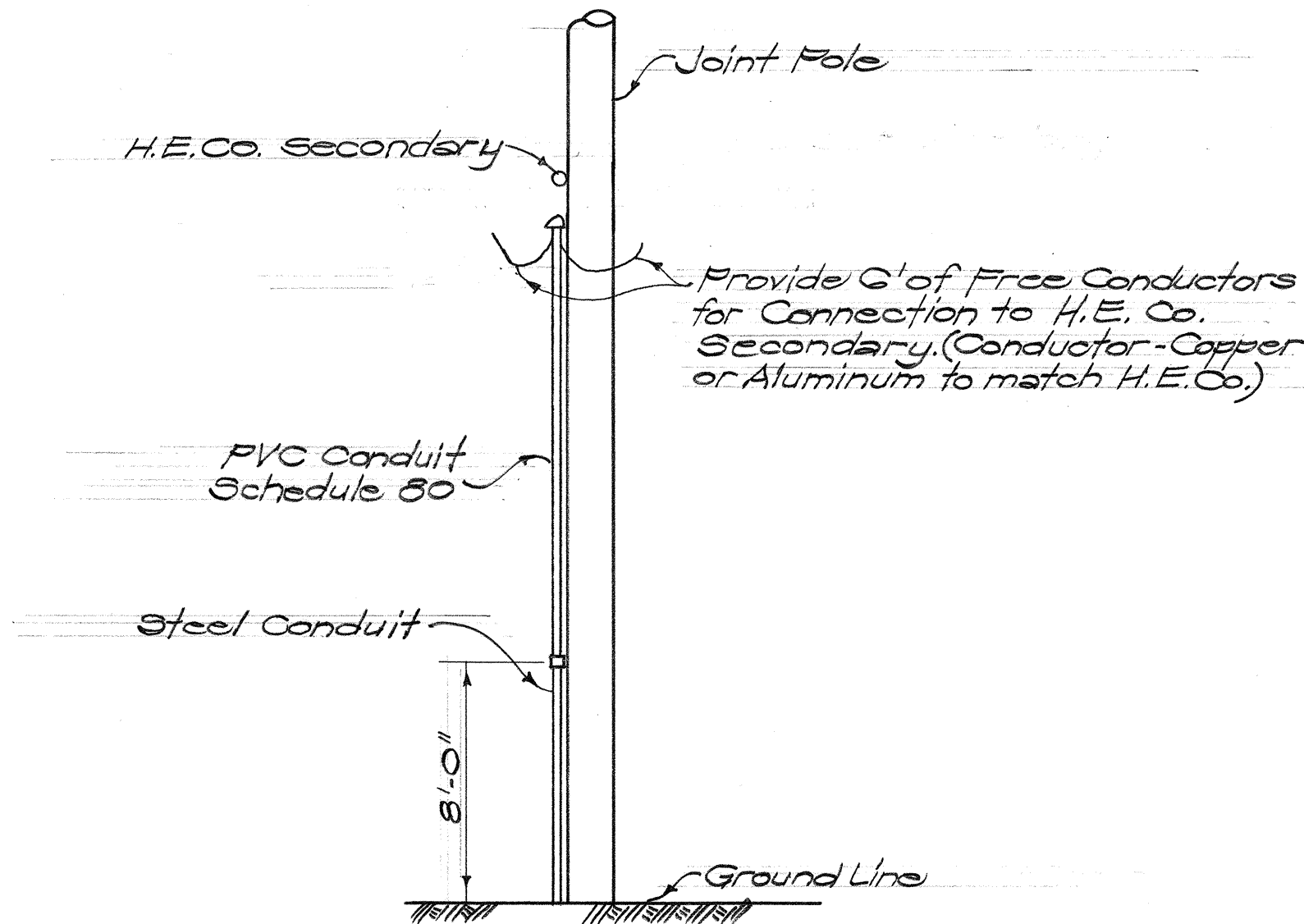
MULTIPLE STREET LIGHT MOUNTING DETAIL
Scale: 1/2" = 1'-0"



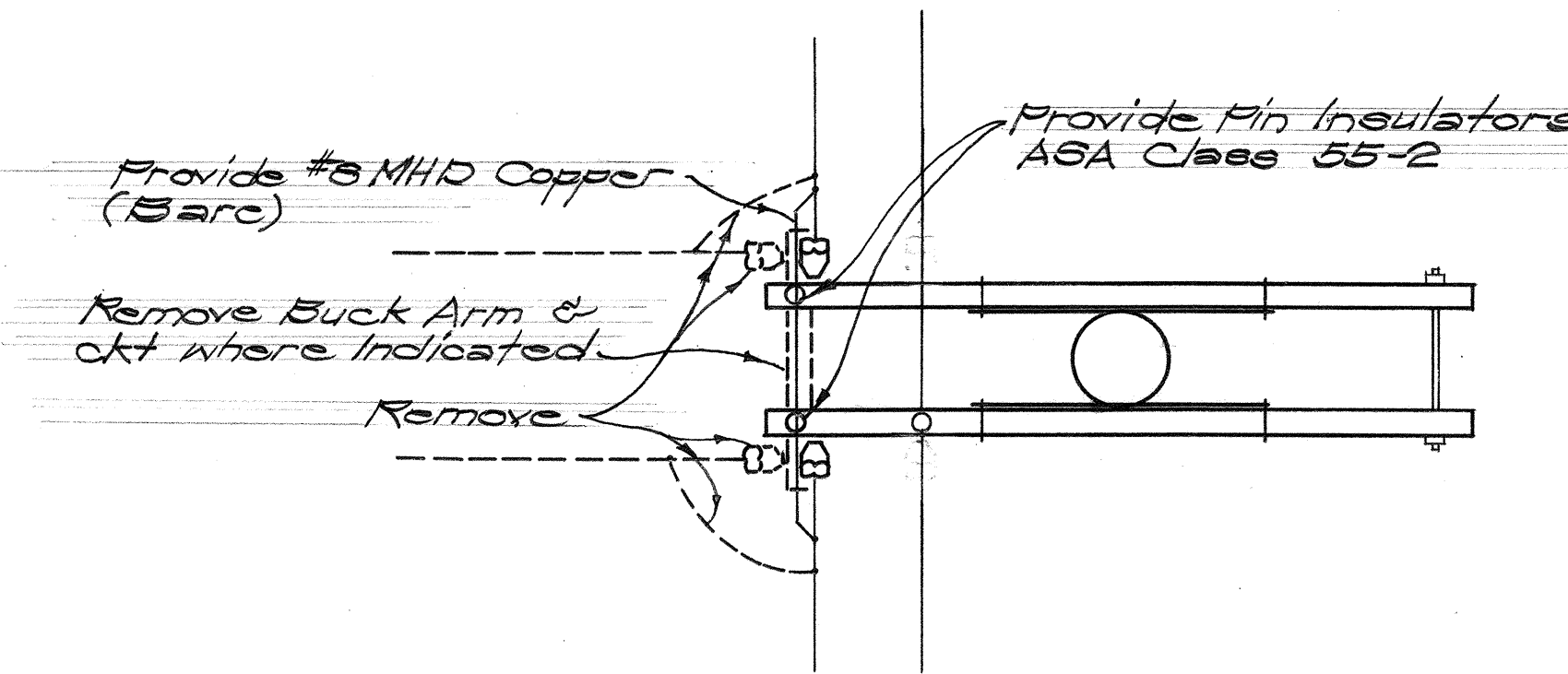
SECTION "D-D"
Not to Scale



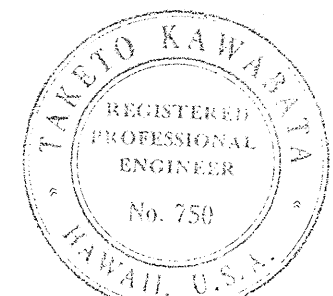
TYPICAL DEAD ENDING DETAIL
Scale: 1/2" = 1'-0"



MULTIPLE CKT. RISER TO H.E. CO. SYSTEM
Scale: 3/4" = 1'-0"



CLOSING SERIES CKT. LOOP
Scale: 1/2" = 1'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Taki Kawanabe

Approved: *[Signature]* 7/16/68
Traffic Engineer
City & County of Honolulu

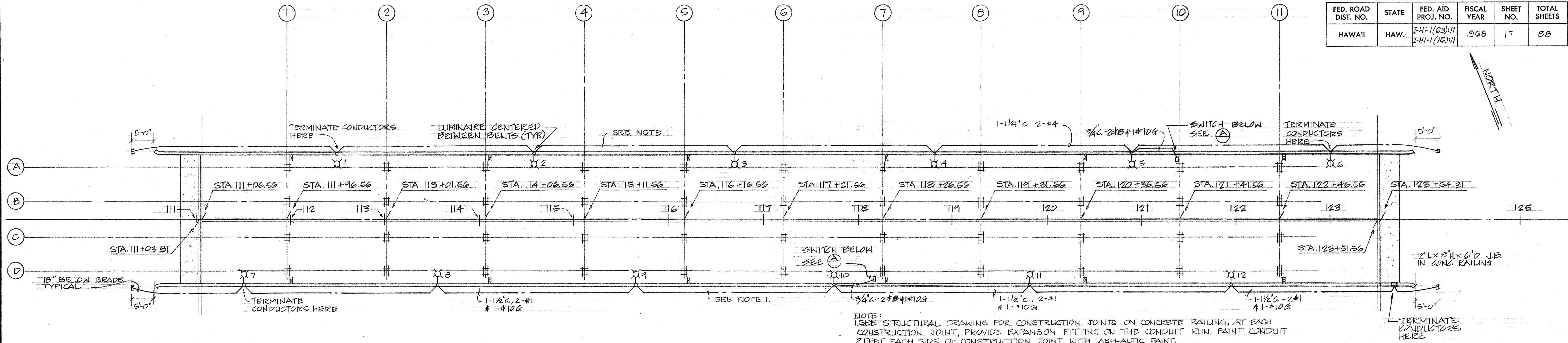
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STREET LIGHTING
DETAILS

INTERSTATE ROUTE HI
PROJ. NOS. I-41-1(23):11
I-41-1(16):11

Scale: As Shown Date: 8/14/68

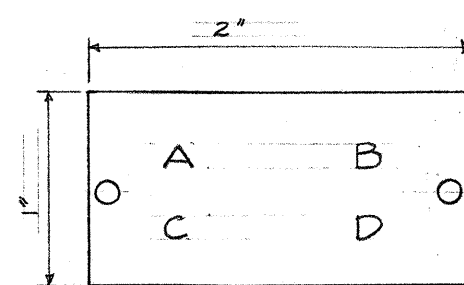
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(63):11 I-H-1(16):11	1968	17	28



LAYOUT PLAN

SCALE: 1" = 50'-0"

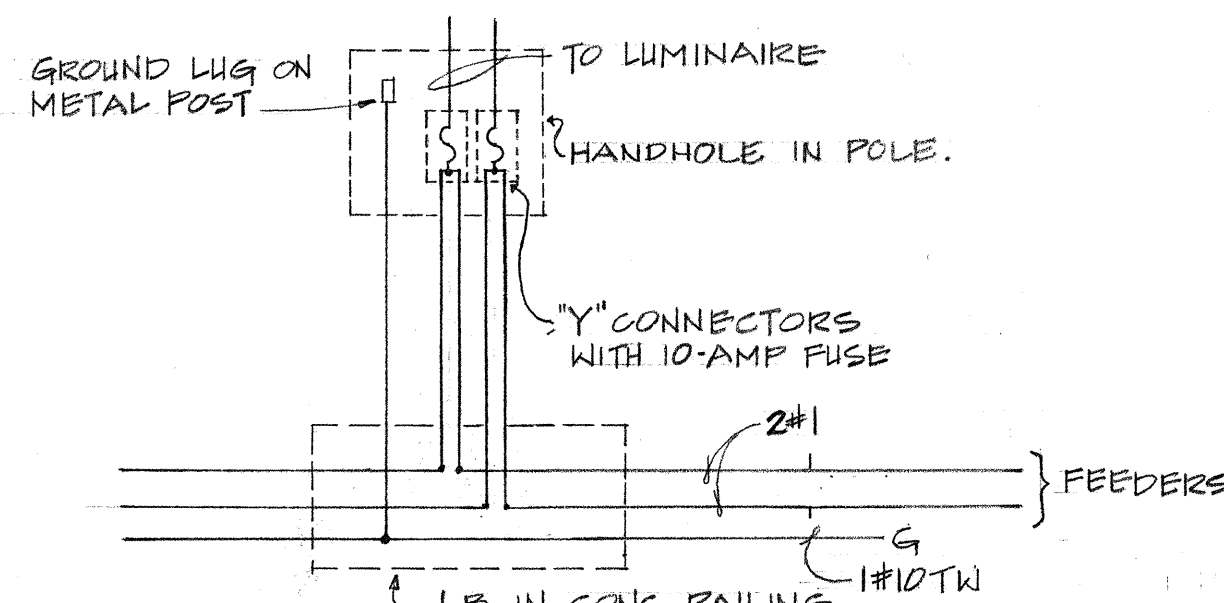
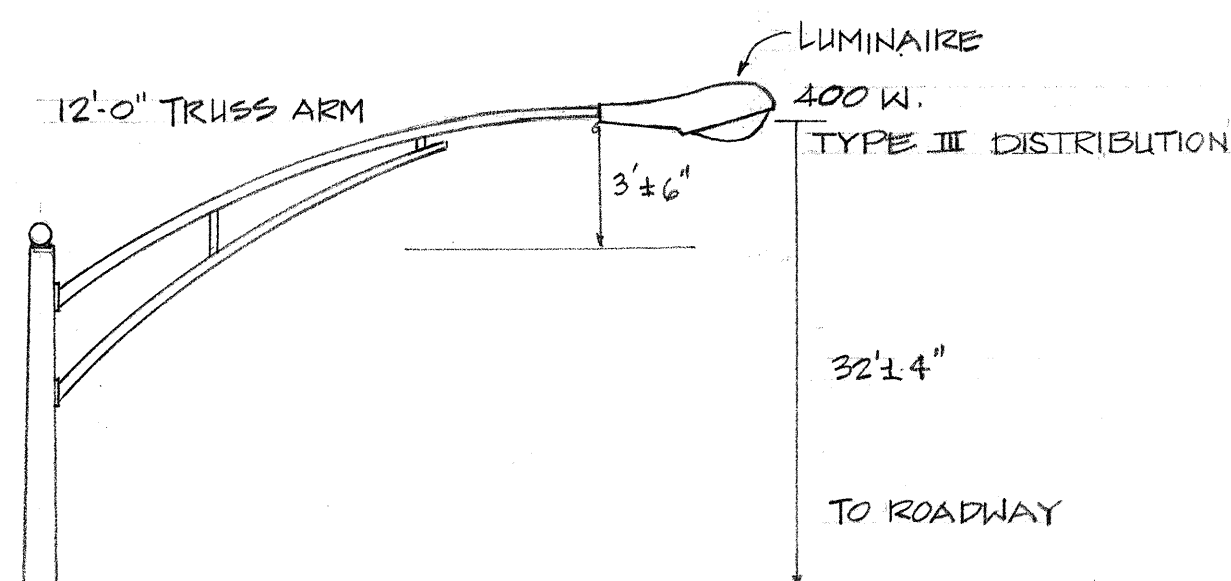
NOTE: 1. SEE STRUCTURAL DRAWING FOR CONSTRUCTION JOINTS ON CONCRETE RAILING. AT EACH CONSTRUCTION JOINT, PROVIDE EXPANSION FITTING ON THE CONDUIT RUN. PAINT CONDUIT 2 FEET, EACH SIDE OF CONSTRUCTION JOINT WITH ASPHALTIC PAINT.



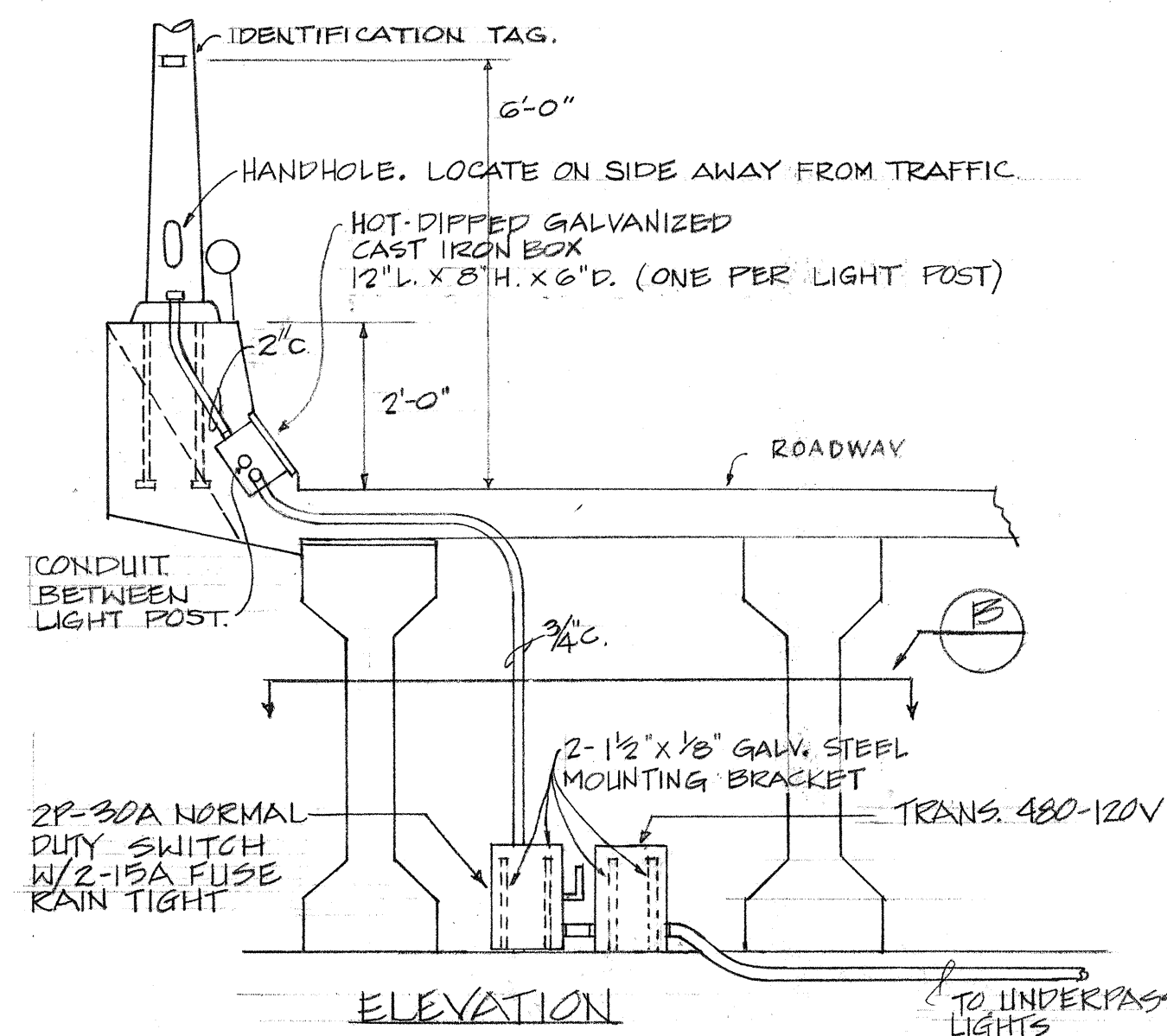
A = CONTRACT NO. (OBTAIN FROM STATE)
B = LIGHT NO. (OBTAIN FROM STATE)
C = LAMP DATA (H-250)
D = REFRACTOR DATA (III)
ALL LETTERS $\frac{3}{16}$ " HIGH.
DRILL & TAP POST FOR $\frac{5}{32}$ " ϕ CADMIUM PLATED SCREW.

IDENTIFICATION TAG FOR MULTIPLE HIGHWAY LIGHTING

(Not to Scale)



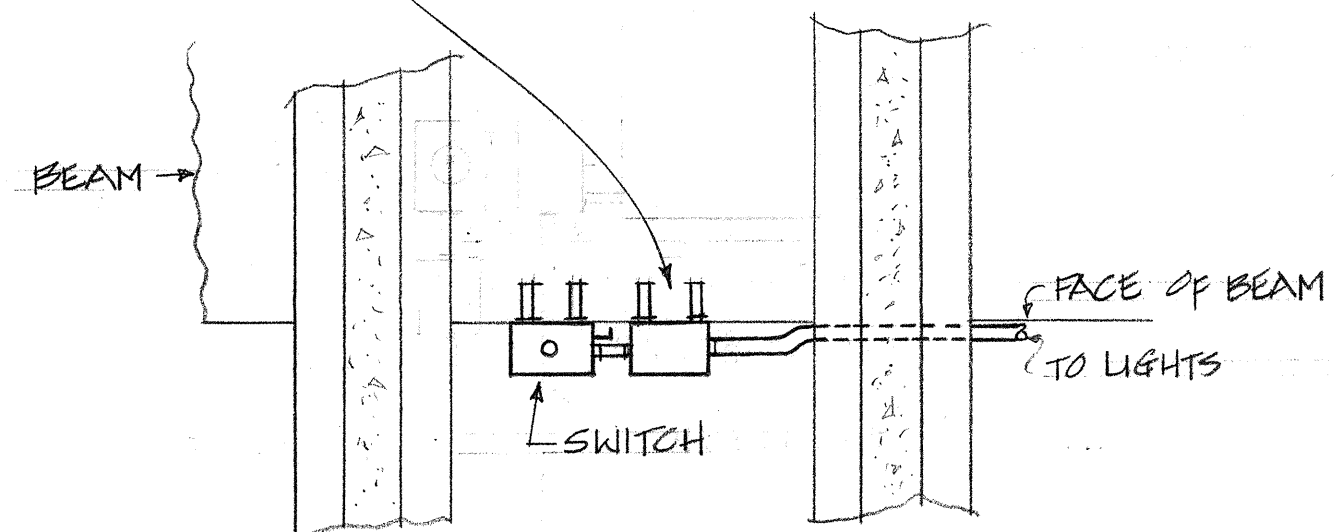
TYPICAL WIRING OF HIGHWAY LIGHTING LUMINAIRE



Ⓐ LIGHT POST MOUNTING

(Not to Scale)

TRANSFORMER @ BENT NO. 7 - 2KVA 480V PRIMARY/120V SEC. BENT NO. 10 - 1KVA 480V PRIMARY/120V SEC. TRANSF. WITH 2-5% TAPS BELOW NORMAL. CONNECT TO 1ST 5% TAPS BELOW NORMAL.

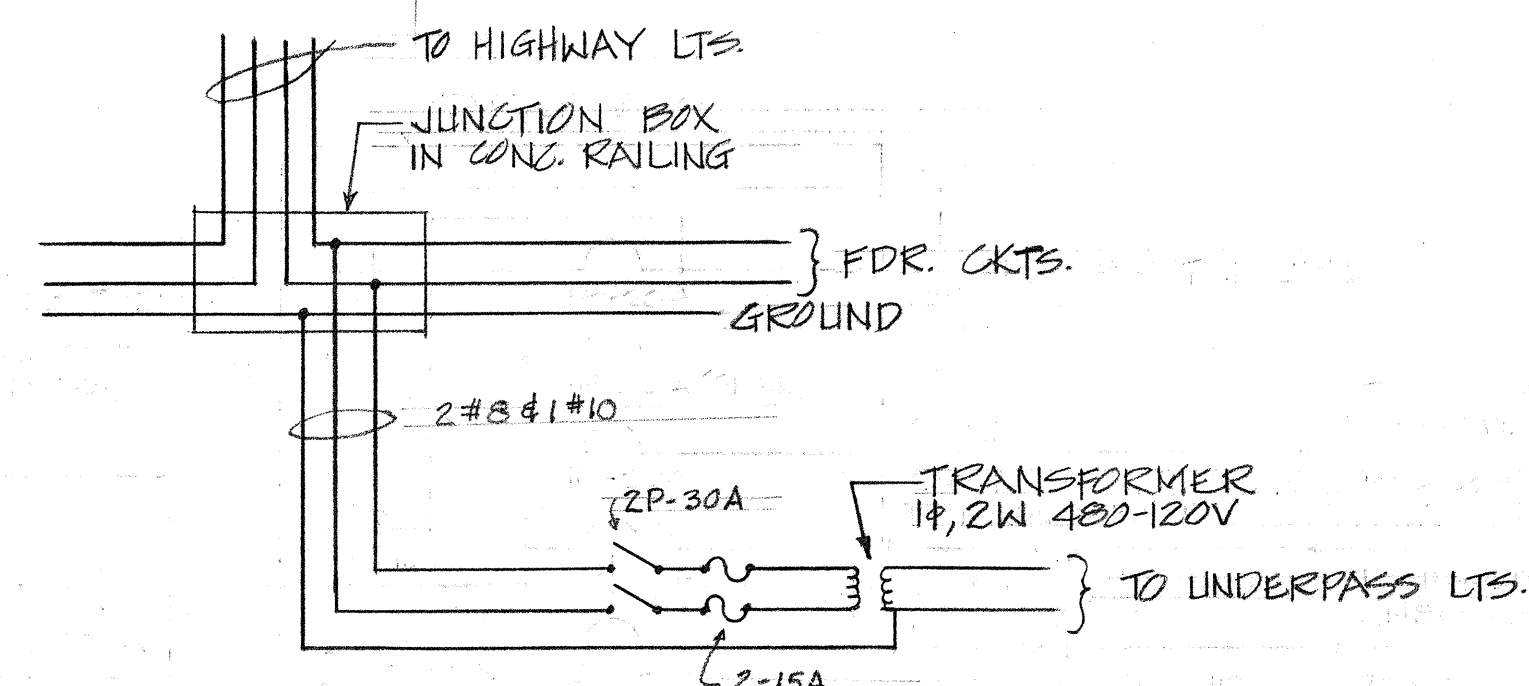


Ⓑ SWITCH & TRANSF. MOUNTING

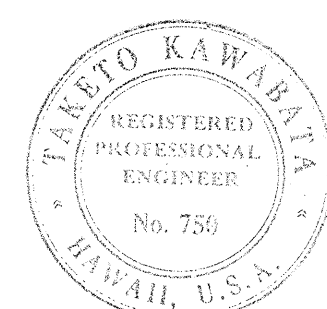
(Not to Scale)

LEGEND

○ X	LIGHT POST AND LUMINAIRE
---	CONDUIT CONCEALED IN CONCRETE RAILING
---	CONDUIT STUB
---	CONDUIT EXPOSED ALONG BEAM



WIRING DIAGRAM FOR UNDERPASS LIGHTS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

T. KAWAHA

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING SYSTEM

INTERSTATE ROUTE H-1
PROJ. NOS. I-H-1(63):11
I-H-1(16):11

Scale: As Shown Date: 8/14/68

SHEET No. 1 OF 1 SHEETS