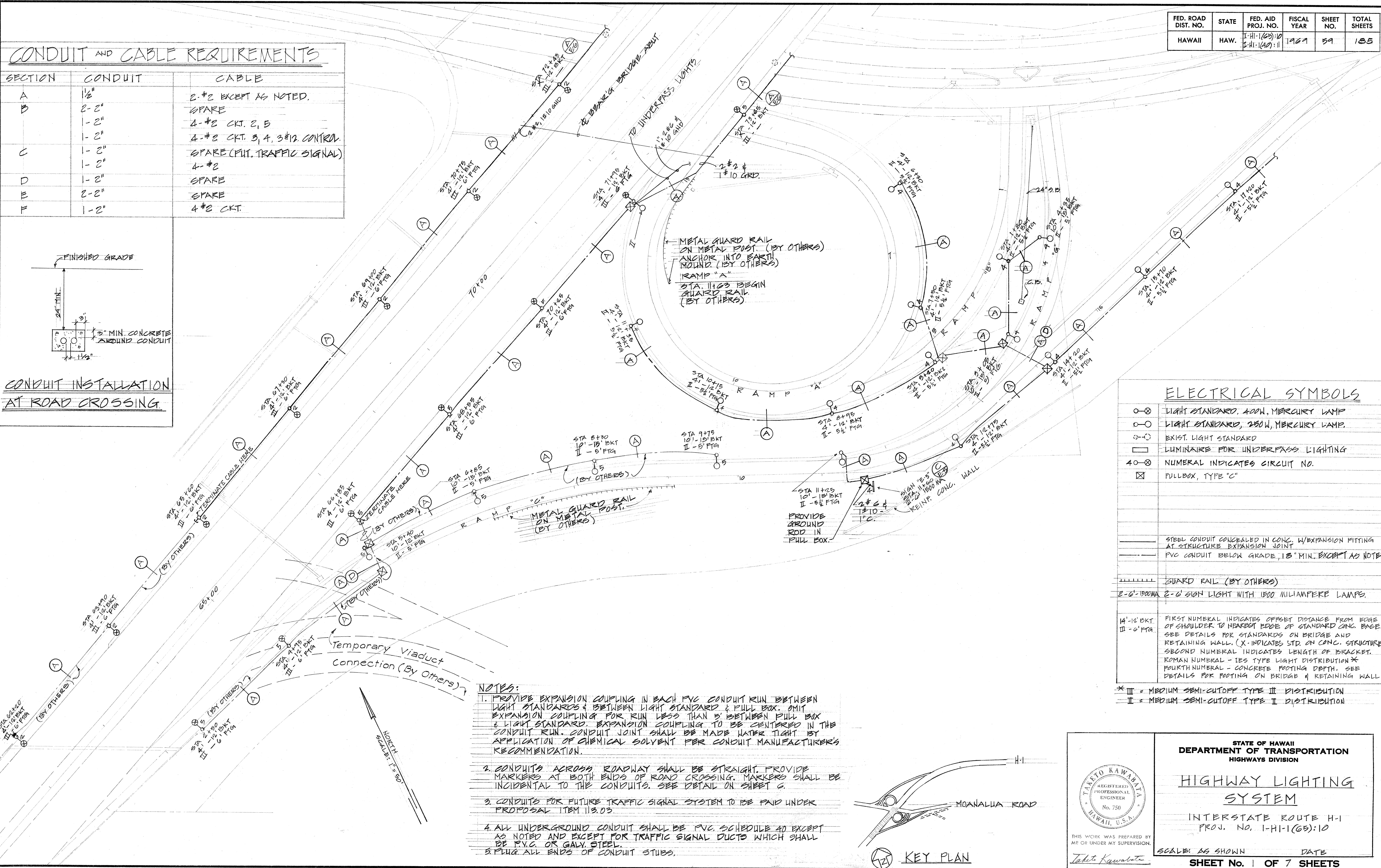
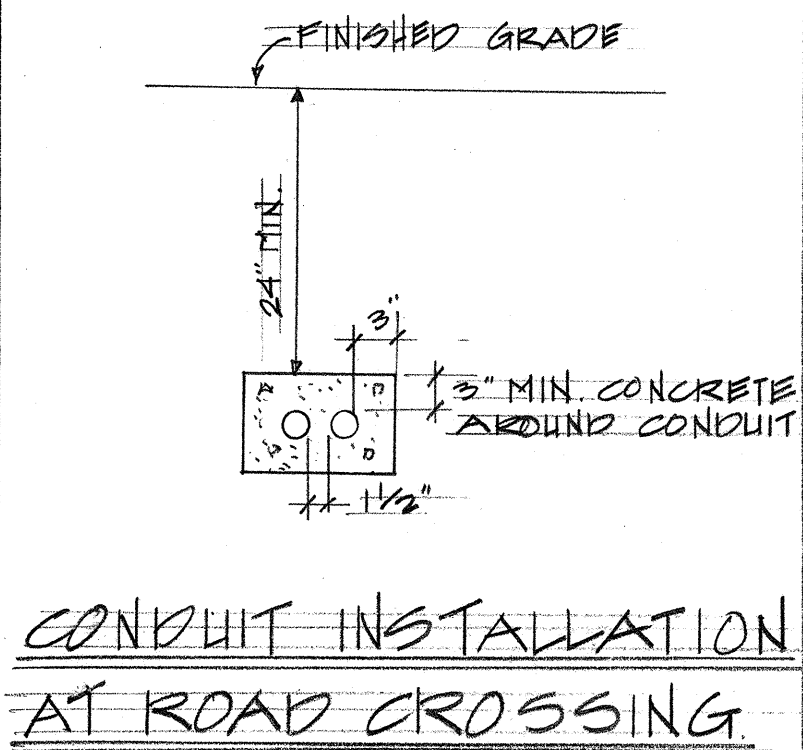


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(65):10 I-HI-1(42):11	1967	59	185

CONDUIT AND CABLE REQUIREMENTS		
SECTION	CONDUIT	CABLE
A	1 1/2"	2-#2 EXCEPT AS NOTED.
B	2-2"	SPARE
	1-2"	4-#2 CKT. 2, 5
	1-2"	4-#2 CKT. 3, 4, 3#12 CONTROL
C	1-2"	SPARE (FUT. TRAFFIC SIGNAL)
	1-2"	4-#2
D	1-2"	SPARE
E	2-2"	SPARE
F	1-2"	4-#2 CKT.



ELECTRICAL SYMBOLS

○	LIGHT STANDARD, 400W. MERCURY LAMP
○	LIGHT STANDARD, 250W. MERCURY LAMP
○	EXIST. LIGHT STANDARD
□	LUMINAIRE FOR UNDERPASS LIGHTING
40-○	NUMERAL INDICATES CIRCUIT NO.
⊠	PULLBOX, TYPE "C"
---	STEEL CONDUIT CONCEALED IN CONC. W/EXPANSION FITTING AT STRUCTURE EXPANSION JOINT
---	PVC CONDUIT BELOW GRADE, 18" MIN. EXCEPT AS NOTED
---	GUARD RAIL (BY OTHERS)
2-6-1800MA	2-6' SIGN LIGHT WITH 1800 MILLIAMPERE LAMPS.
14'-12' BKT II - 6' FTA	FIRST NUMERAL INDICATES OFFSET DISTANCE FROM EDGE OF SHOULDER TO NEAREST EDGE OF STANDARD CONC. BASE. SEE DETAILS FOR STANDARDS ON BRIDGE AND RETAINING WALL. (X INDICATES STD. ON CONC. STRUCTURE) SECOND NUMERAL INDICATES LENGTH OF BRACKET. ROMAN NUMERAL - IES TYPE LIGHT DISTRIBUTION * FOURTH NUMERAL - CONCRETE FOOTING DEPTH. SEE DETAILS FOR FOOTING ON BRIDGE & RETAINING WALL
* III	MEDIUM SEMI-CUTOFF TYPE III DISTRIBUTION
II	MEDIUM SEMI-CUTOFF TYPE II DISTRIBUTION

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

- NOTES:
1. PROVIDE EXPANSION COUPLING IN EACH PVC CONDUIT RUN BETWEEN LIGHT STANDARDS & BETWEEN LIGHT STANDARD & PULL BOX. OMIT EXPANSION COUPLING FOR RUN LESS THAN 5' BETWEEN PULL BOX & LIGHT STANDARD. EXPANSION COUPLING TO BE CENTERED IN THE CONDUIT RUN. CONDUIT JOINT SHALL BE MADE WATER TIGHT BY APPLICATION OF CHEMICAL SOLVENT PER CONDUIT MANUFACTURER'S RECOMMENDATION.
 2. CONDUITS ACROSS ROADWAY SHALL BE STRAIGHT. PROVIDE MARKERS AT BOTH ENDS OF ROAD CROSSING. MARKERS SHALL BE INCIDENTAL TO THE CONDUITS. SEE DETAIL ON SHEET C.
 3. CONDUITS FOR FUTURE TRAFFIC SIGNAL SYSTEM TO BE PAID UNDER PROPOSAL ITEM 113.03
 4. ALL UNDERGROUND CONDUIT SHALL BE PVC, SCHEDULE 40 EXCEPT AS NOTED AND EXCEPT FOR TRAFFIC SIGNAL DUCTS WHICH SHALL BE P.V.C. OR GALV. STEEL.
 5. PLUG ALL ENDS OF CONDUIT STUBS.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING SYSTEM

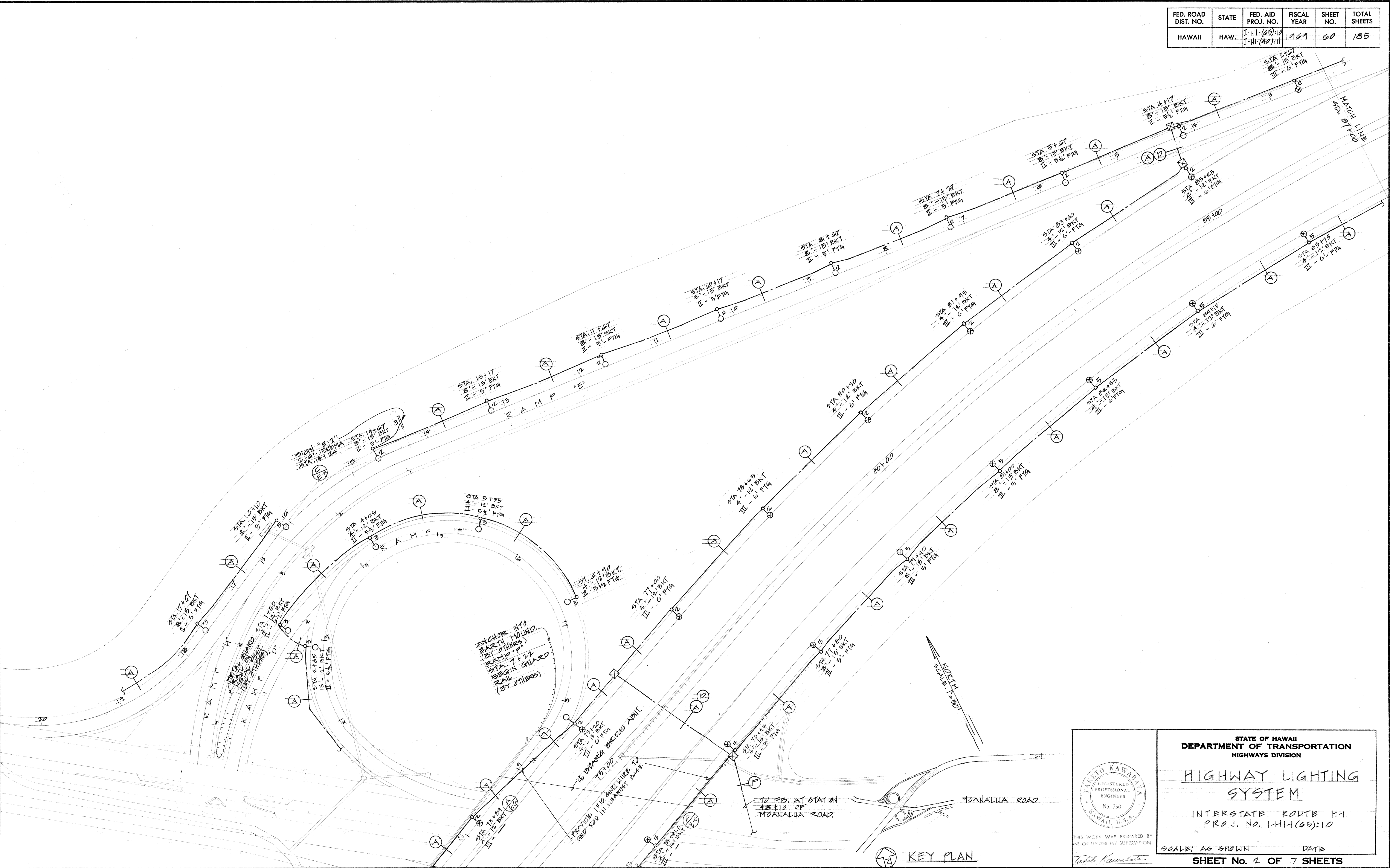
INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(65):10

SCALE: AS SHOWN DATE

SHEET No. 1 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(65):10 I-HI-(40):11	1969	60	185

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
NO.	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Taletto Kawarita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

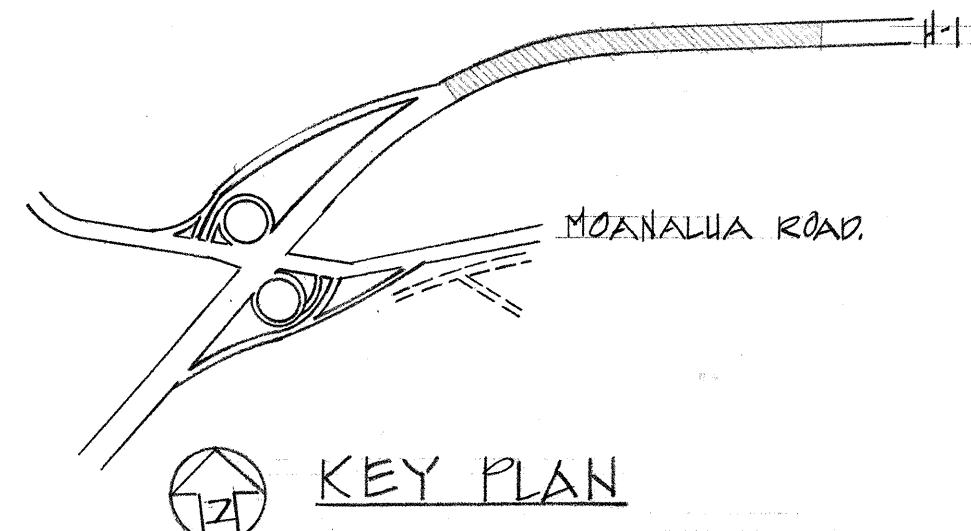
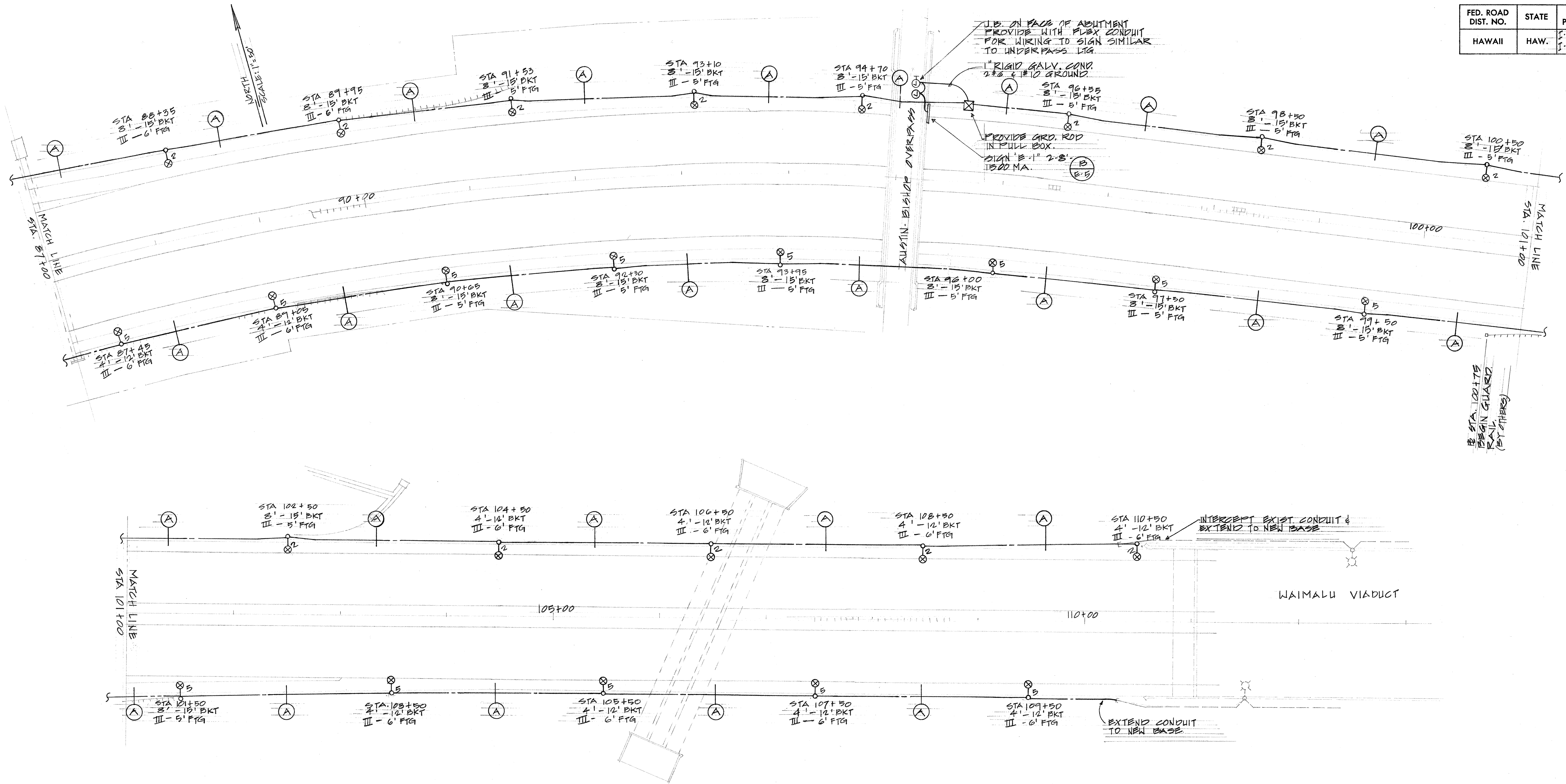
HIGHWAY LIGHTING SYSTEM

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-(65):10

SCALE: AS SHOWN DATE

SHEET No. 2 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-HI-(65):10 5-HI-(40):11	1969	61	135



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

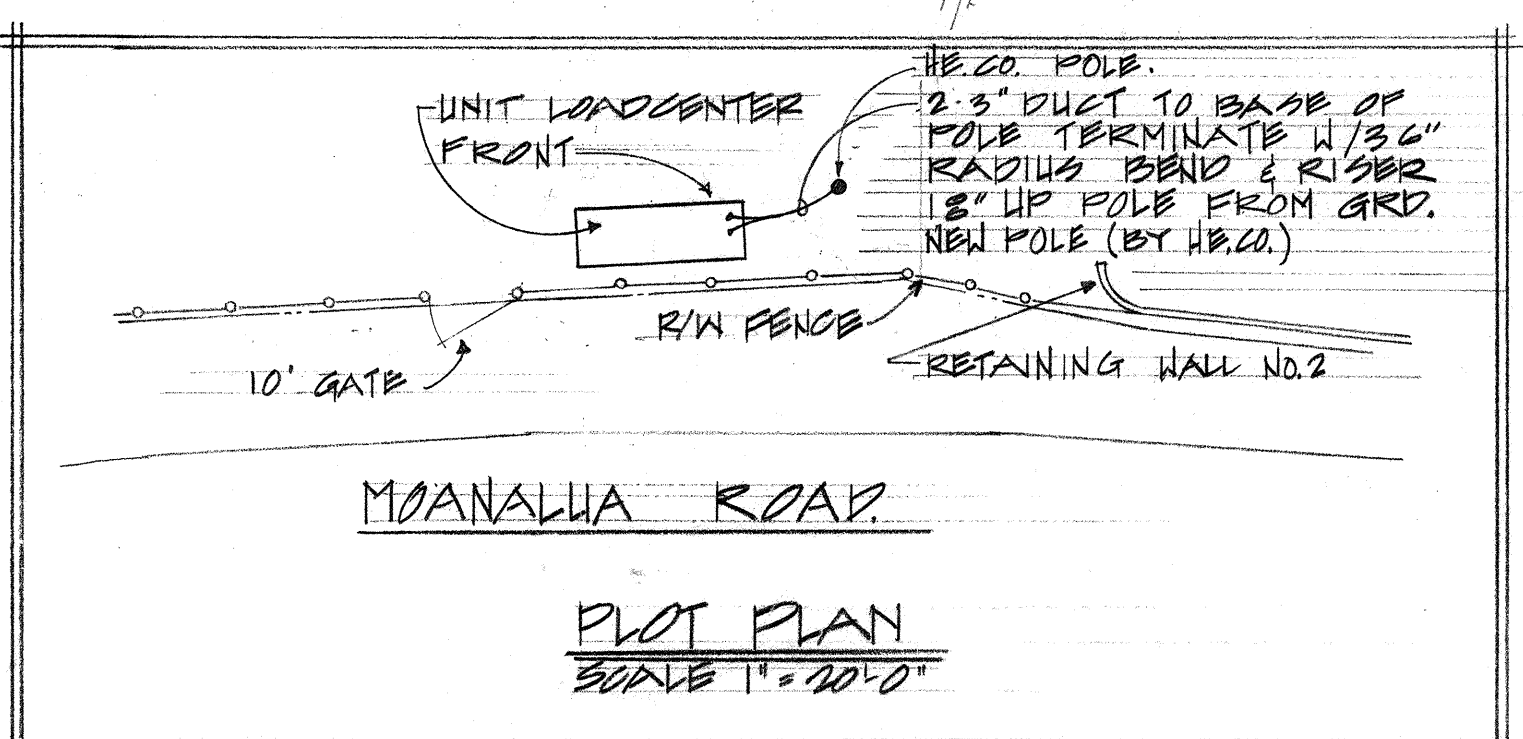
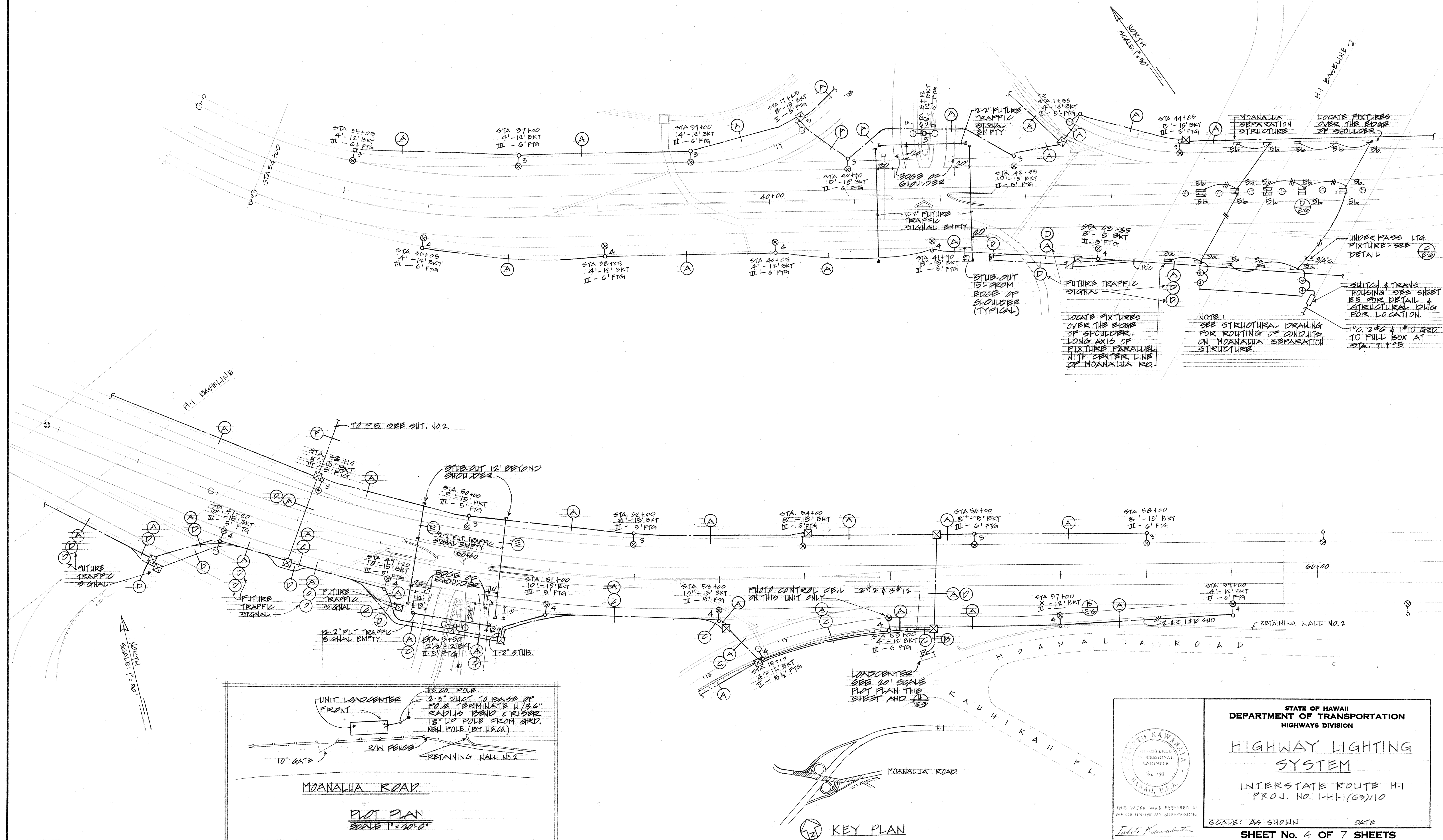
HIGHWAY LIGHTING
SYSTEM

INTERSTATE ROUTE H-1
PROJ. NO. 1-HI-(65):10

SCALE: AS SHOWN DATE
SHEET No. 3 OF 7 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(68):10 I-HI-(40):11	1969	62	185



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING SYSTEM

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(68):10

SCALE: AS SHOWN DATE

SHEET No. 4 OF 7 SHEETS

TAKEO KAWABATA
REGISTERED PROFESSIONAL ENGINEER
No. 750
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Takeo Kawabata

DATE _____

SURVEY PLOTTED BY _____

DRAWN BY _____

DESIGNED BY _____

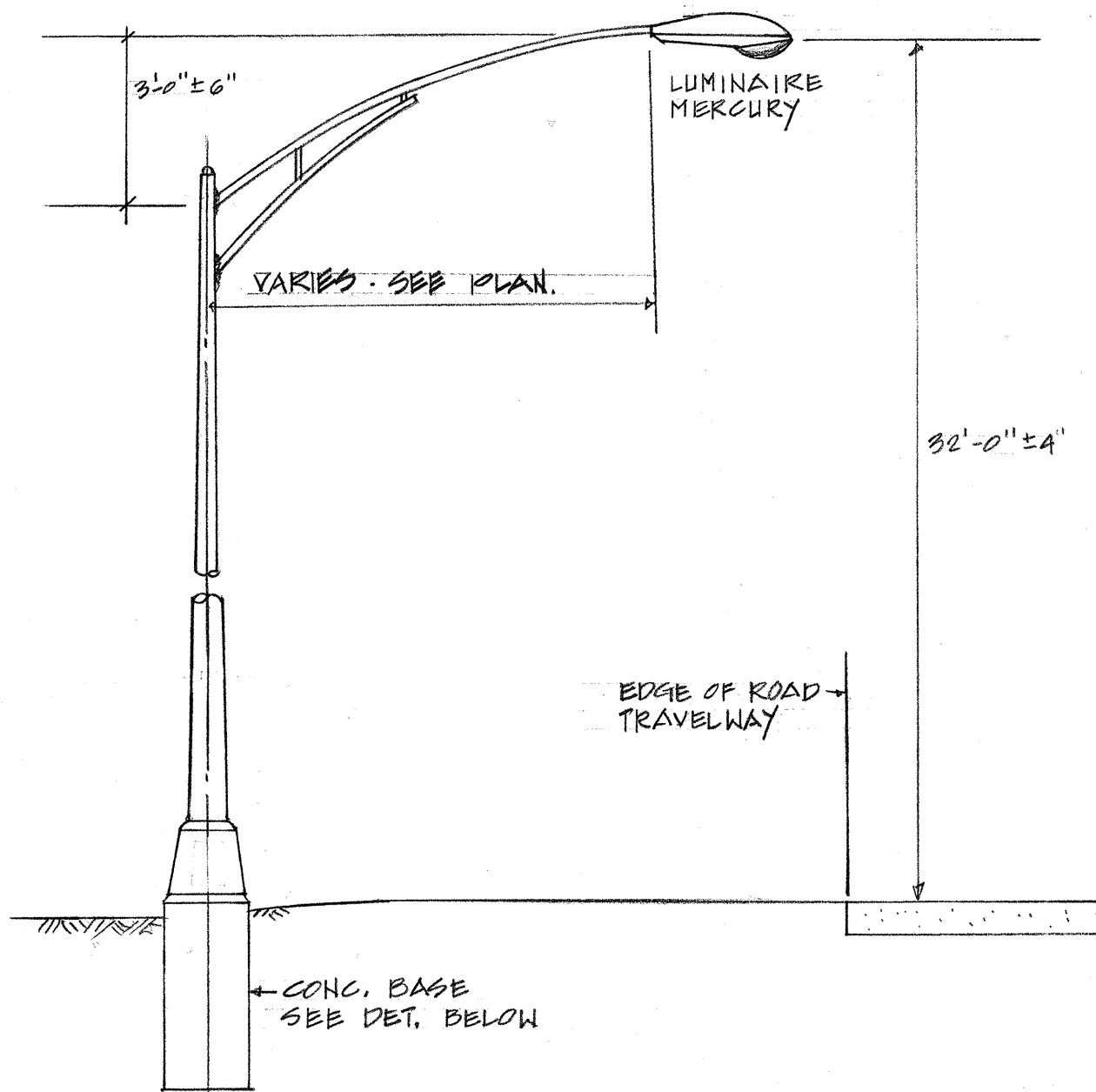
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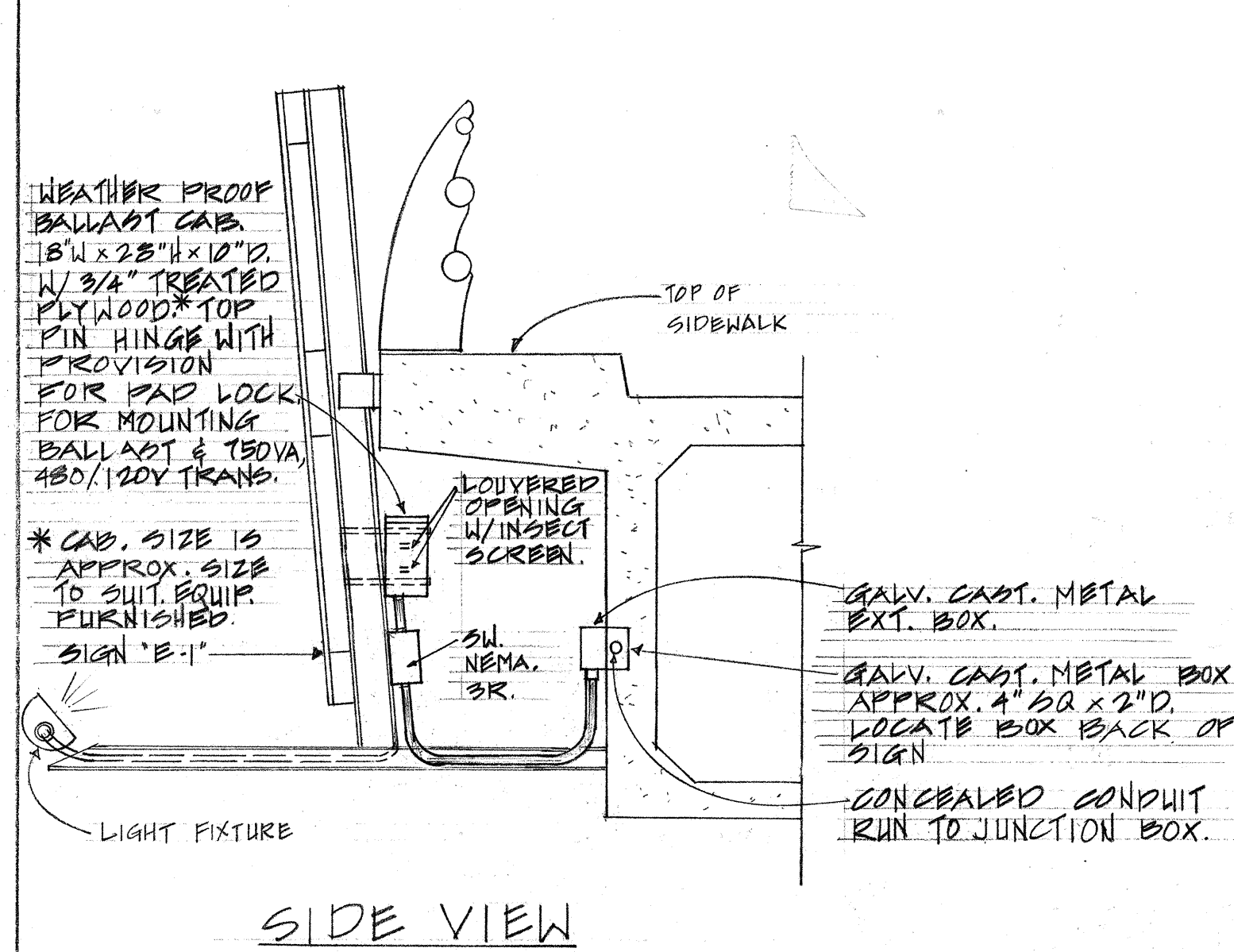
ORIGINAL PLAN _____

NOTE BOOK _____

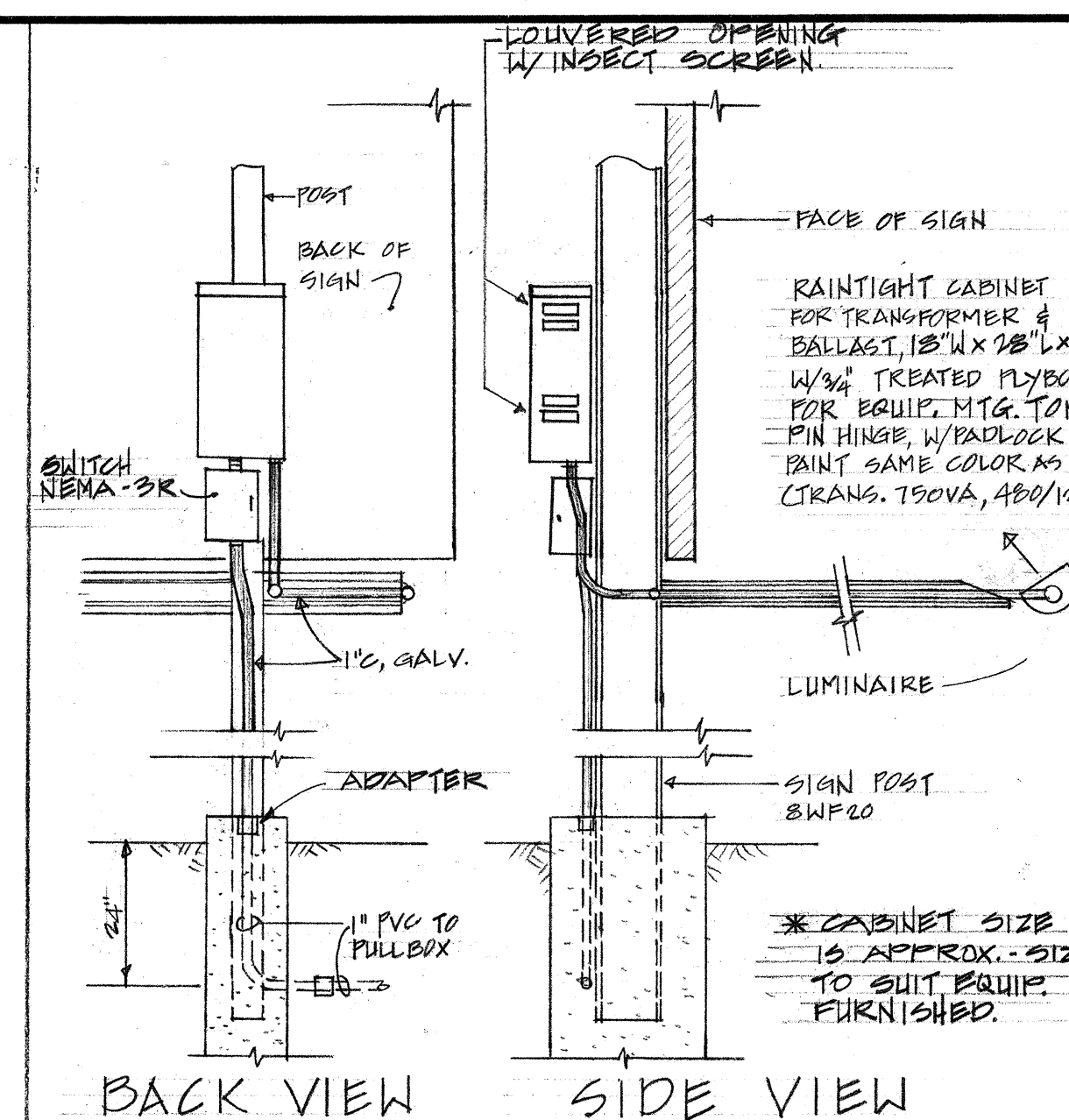
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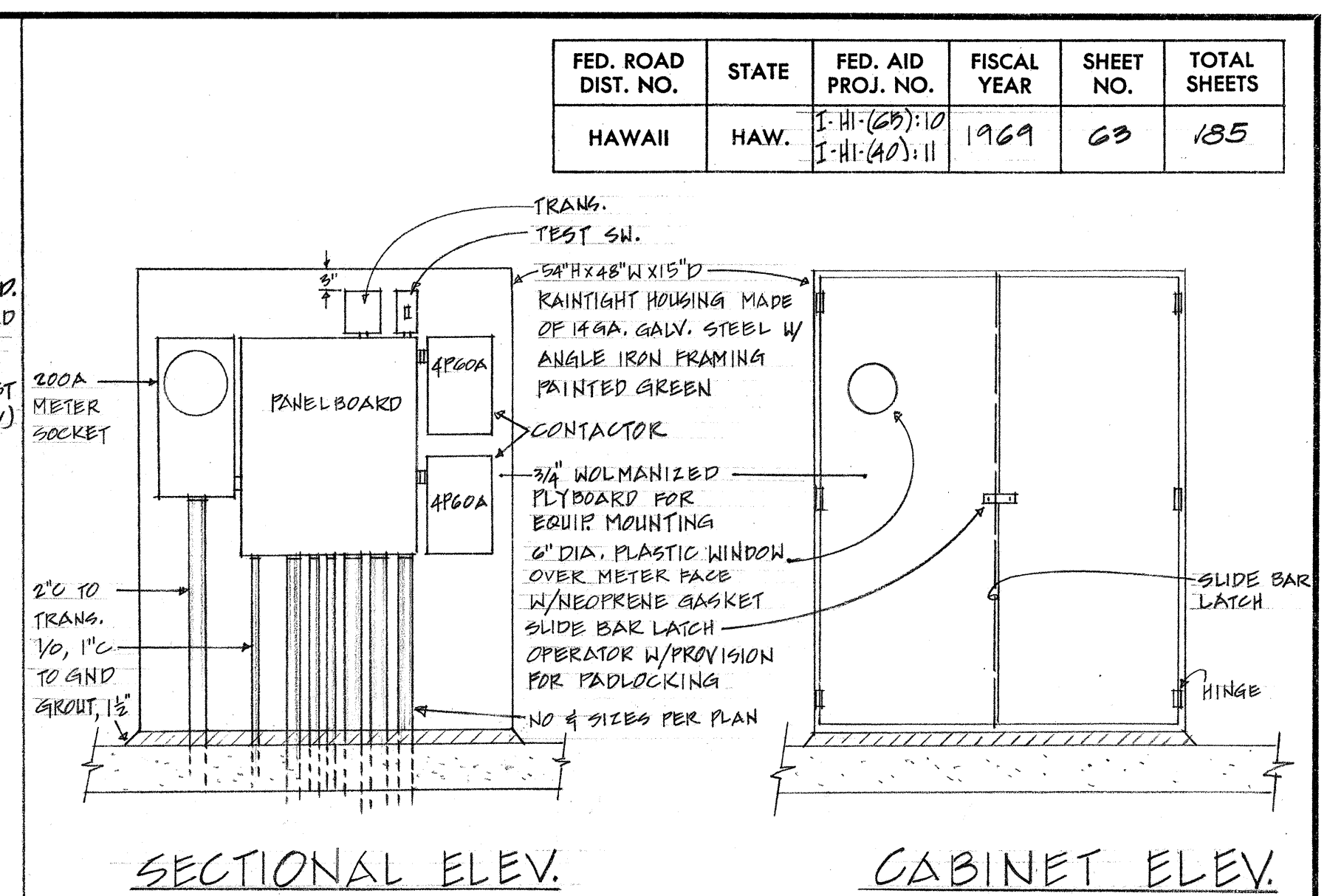
A TYPICAL SINGLE ARM METAL STREET LIGHT POLE N.T.S.



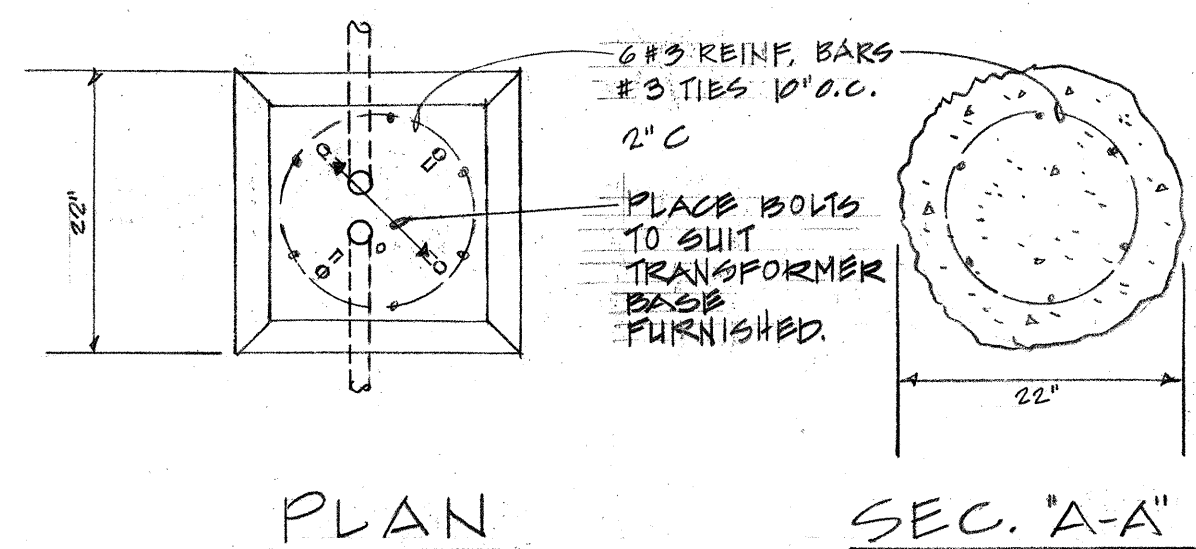
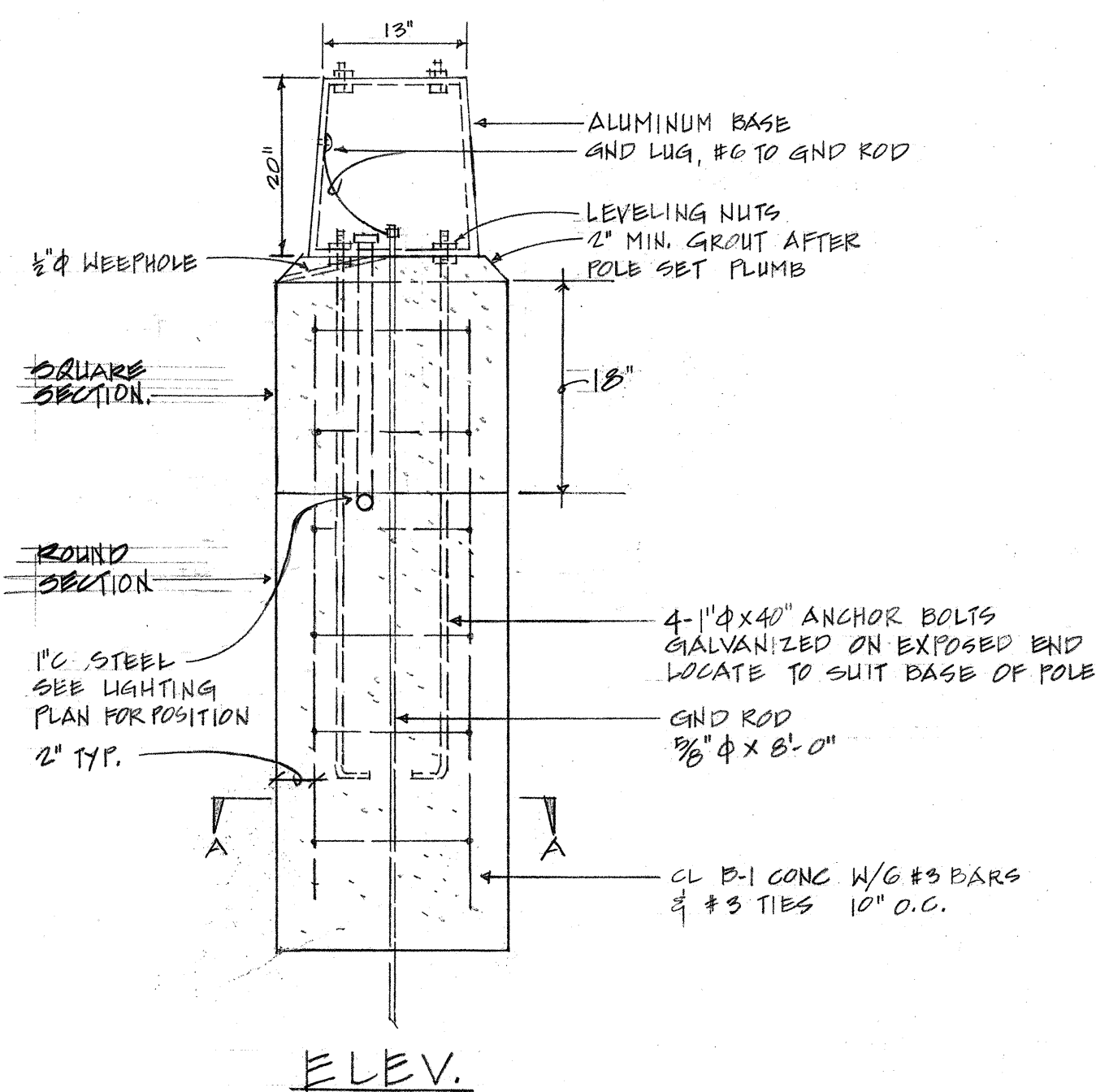
B SIGN "E-1" BISHOP-AUSTIN SEPARATION NOT TO SCALE



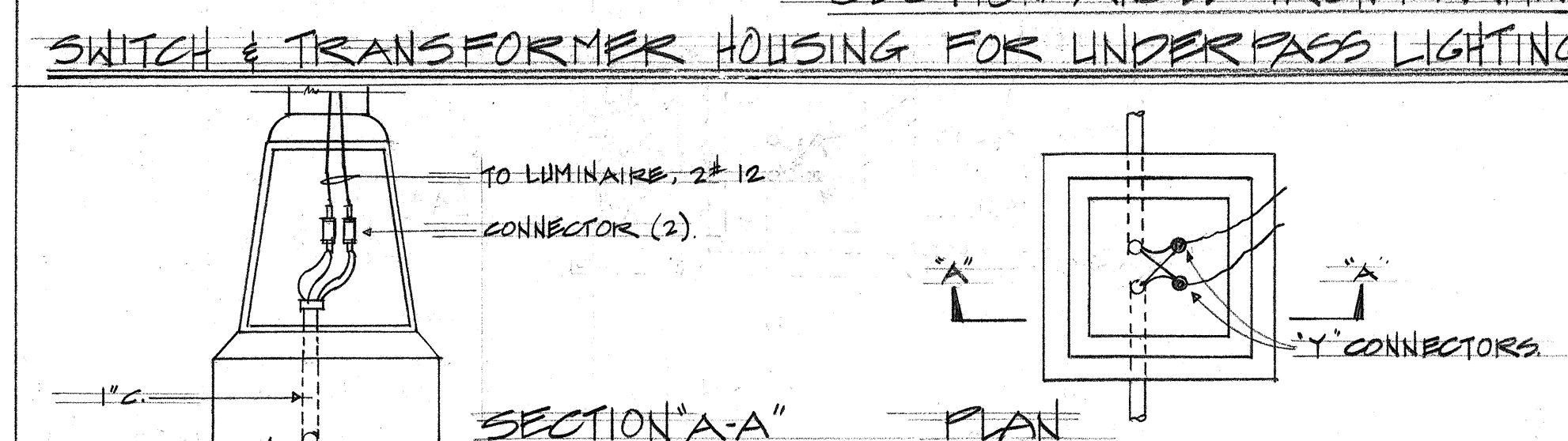
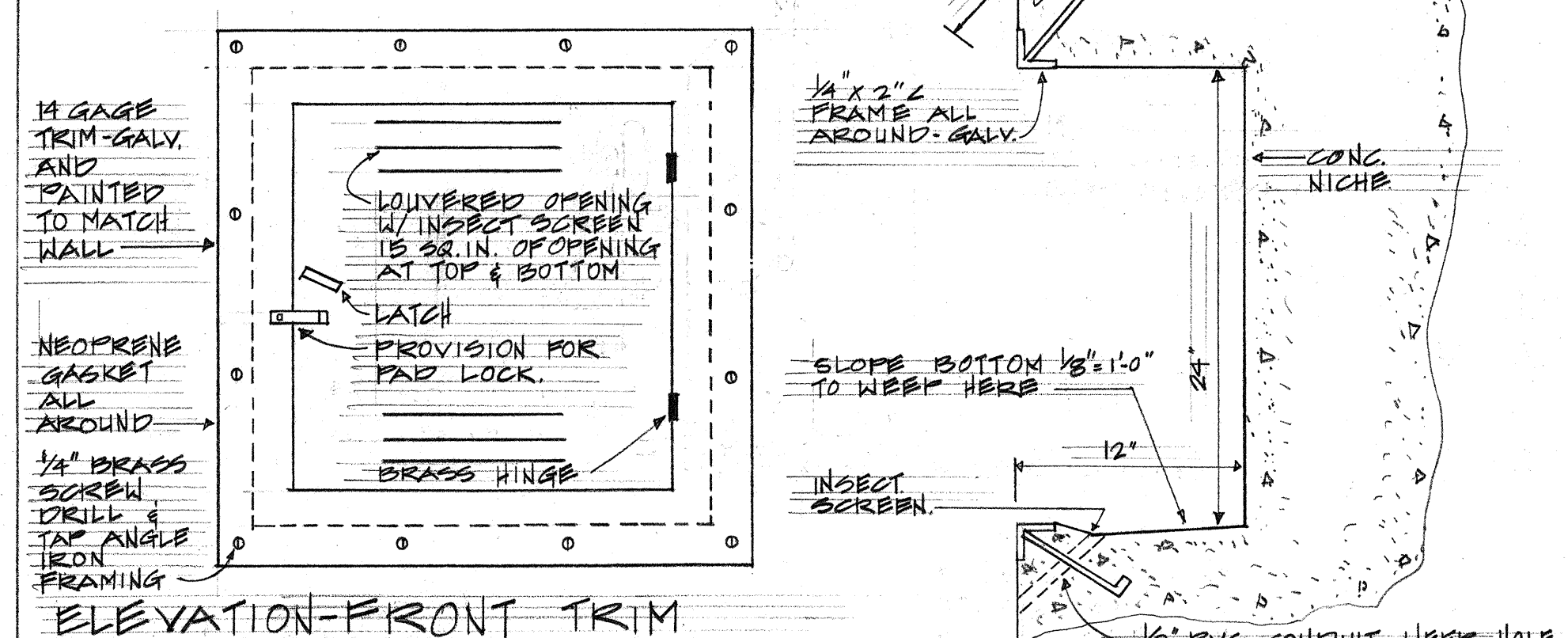
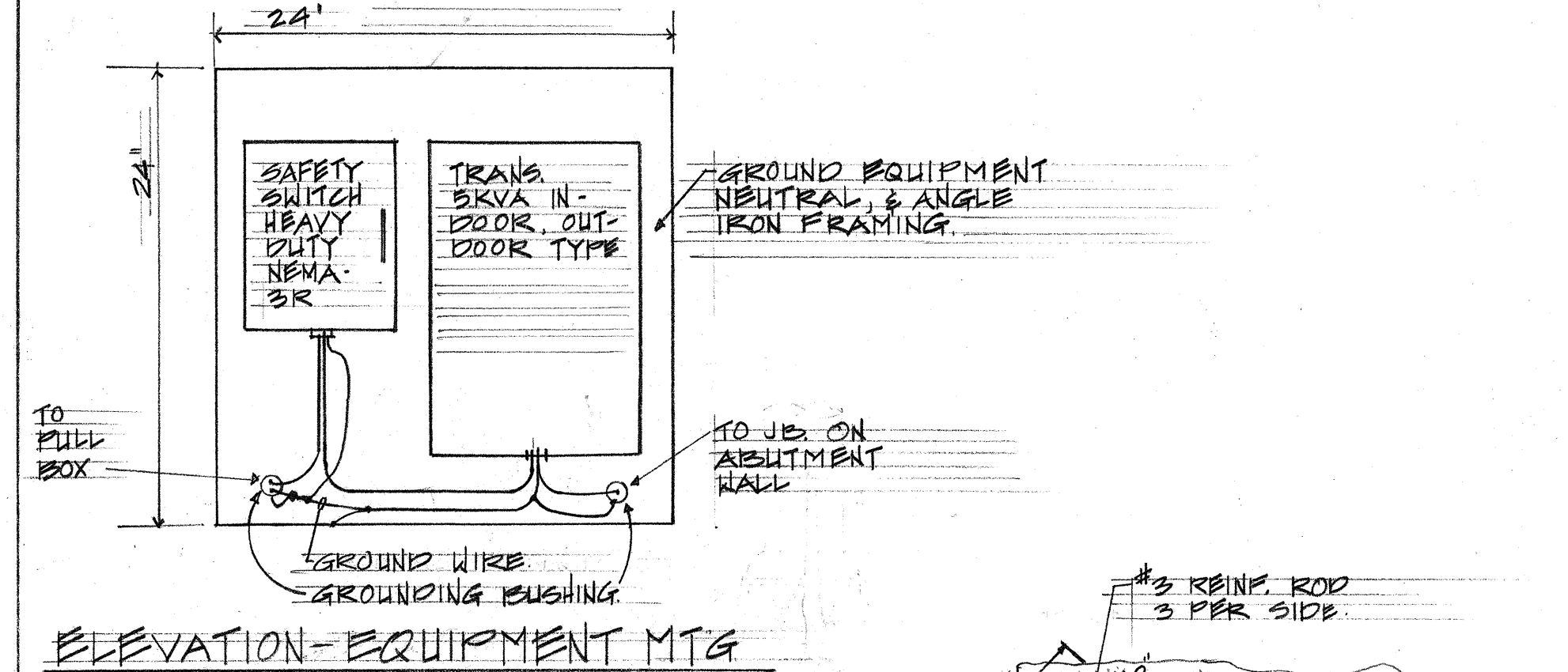
C SIGNS "E-2" & "E-3" DETAIL NOT TO SCALE



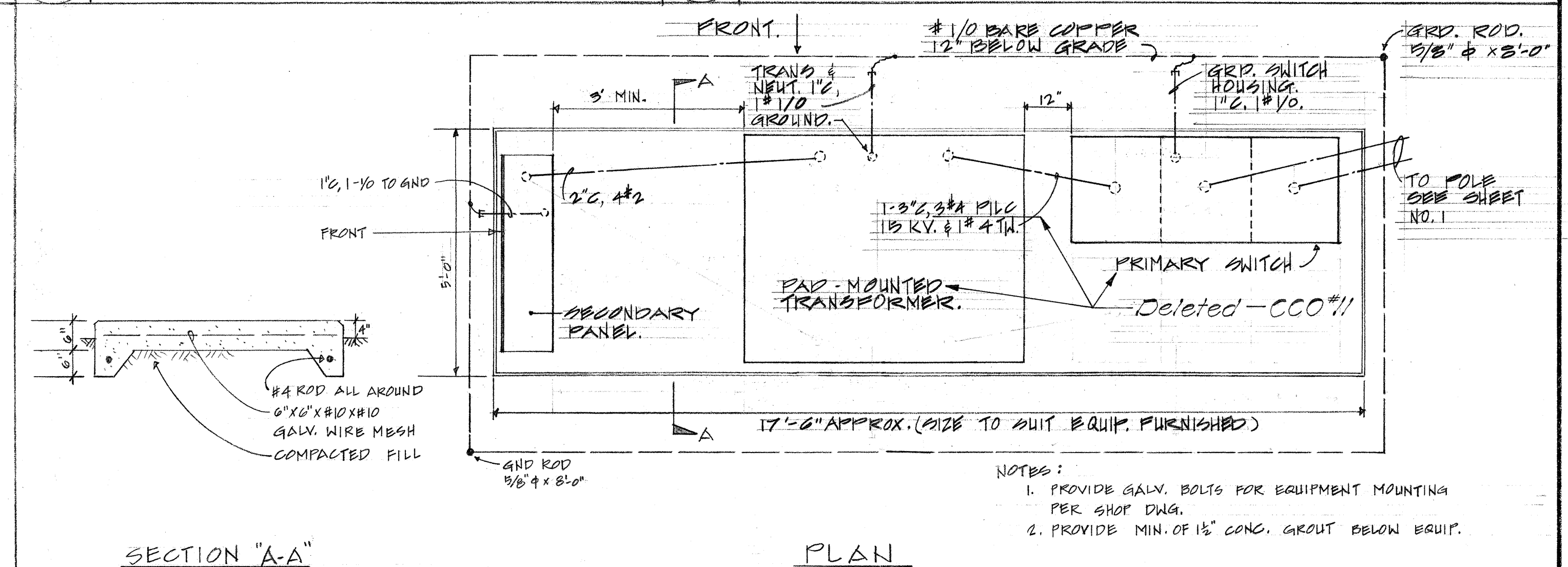
D CONTROL CENTER NOT TO SCALE



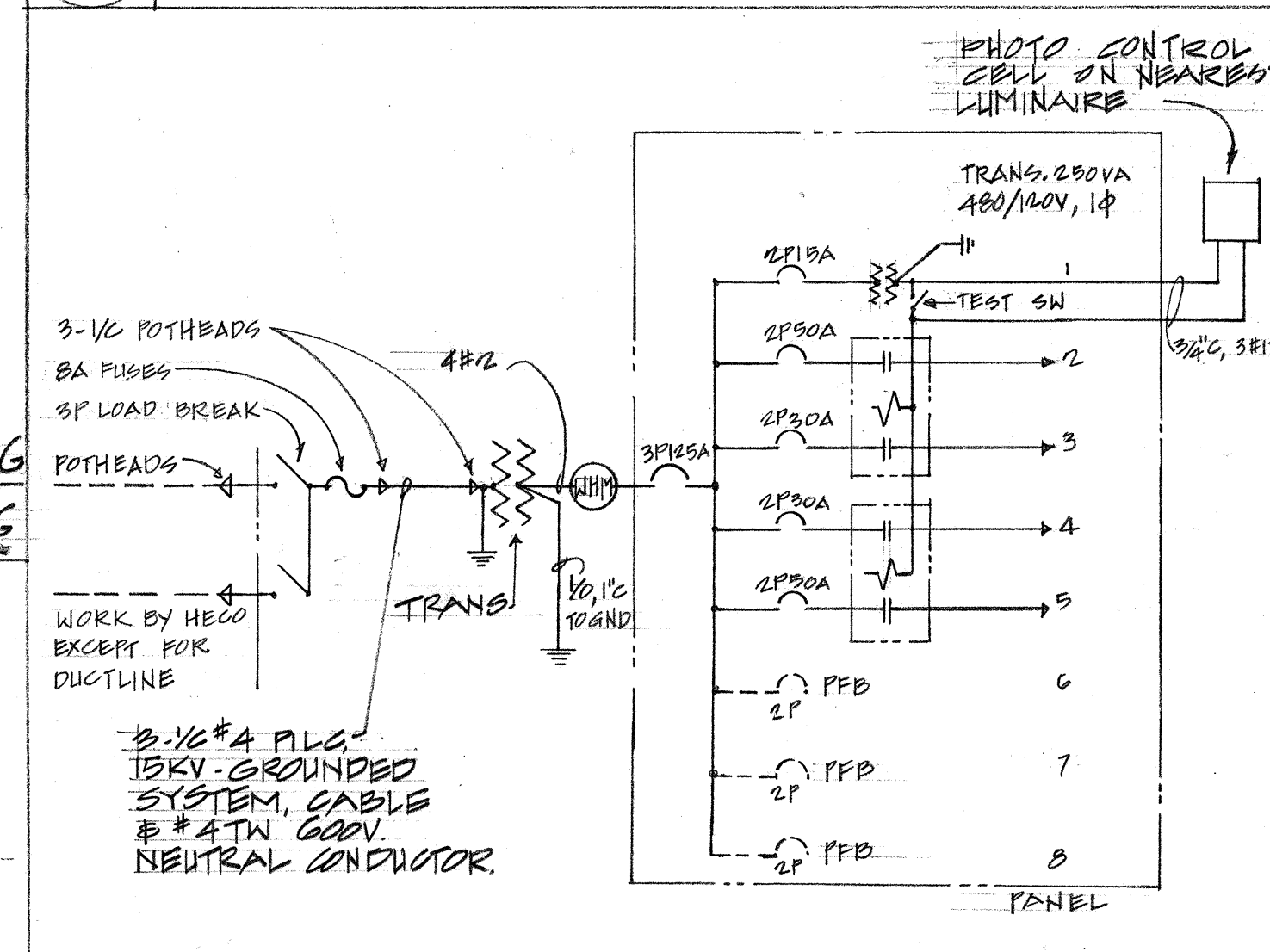
F CONCRETE BASE DETAIL NOT TO SCALE



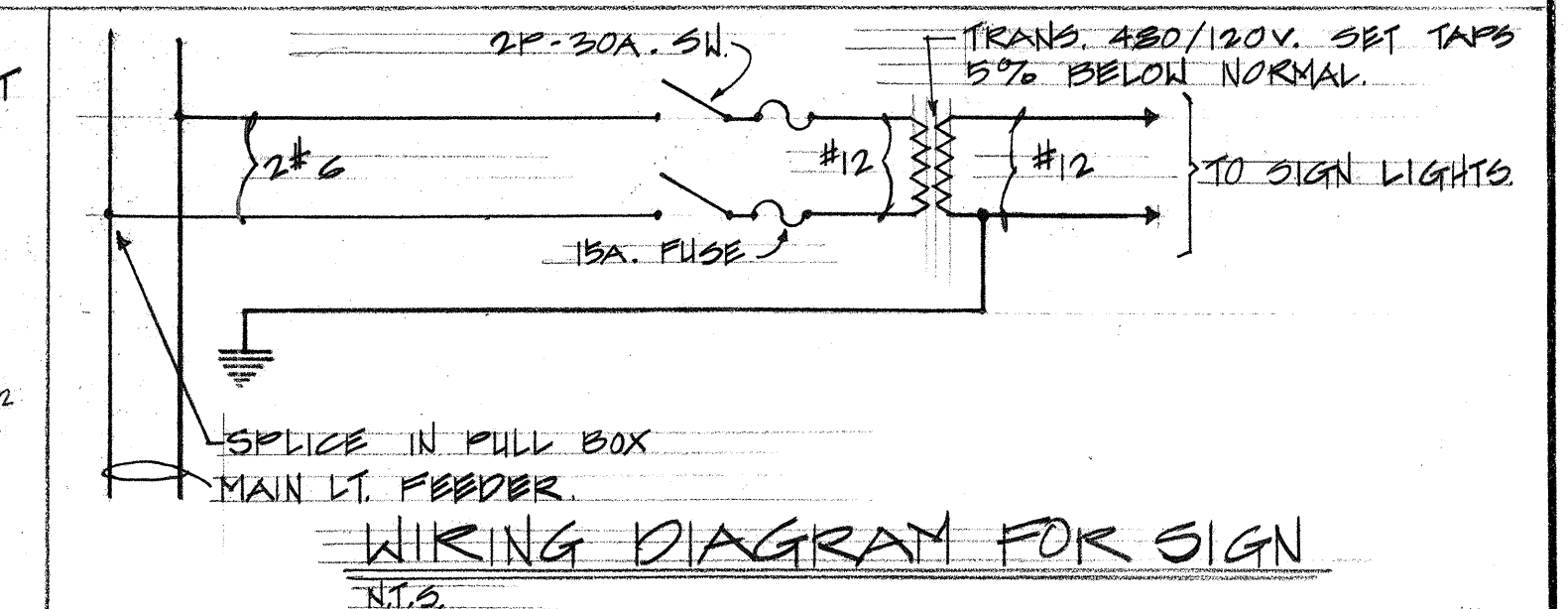
G TYP. LUMINAIRE WIRING NOT TO SCALE



H UNIT LOAD CENTER FOR HIGHWAY LIGHTING SYSTEM NOT TO SCALE



J ONE-LINE DIAGRAM NOT TO SCALE



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING SYSTEM

INTERSTATE ROUTE H-1
PROJ. NO. 1-H-1(65):10

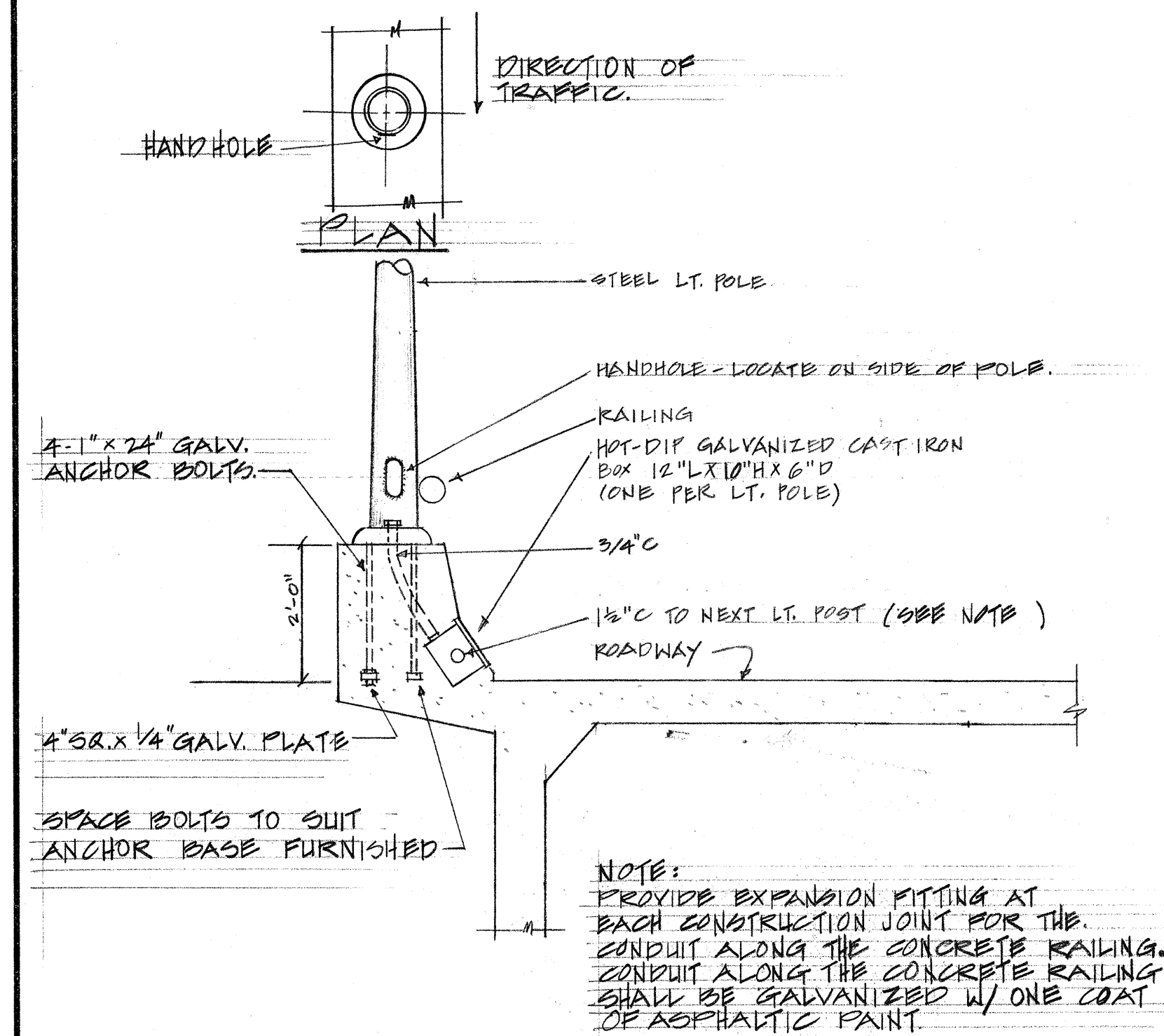
SCALE: AS SHOWN DATE

SHEET No. 5 OF 7 SHEETS

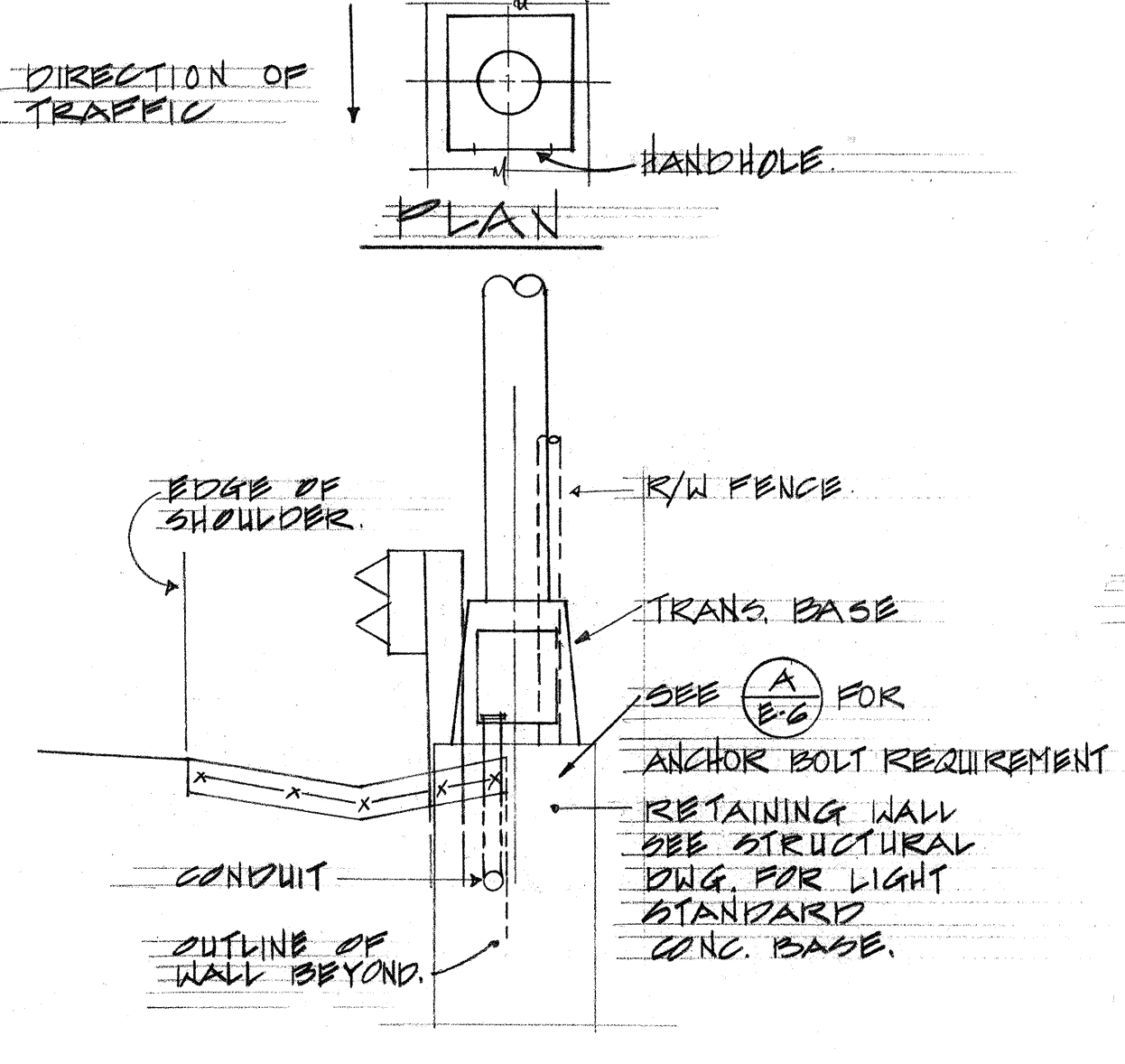
TAKEO KAWAHARA
REGISTERED PROFESSIONAL ENGINEER
No. 750
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

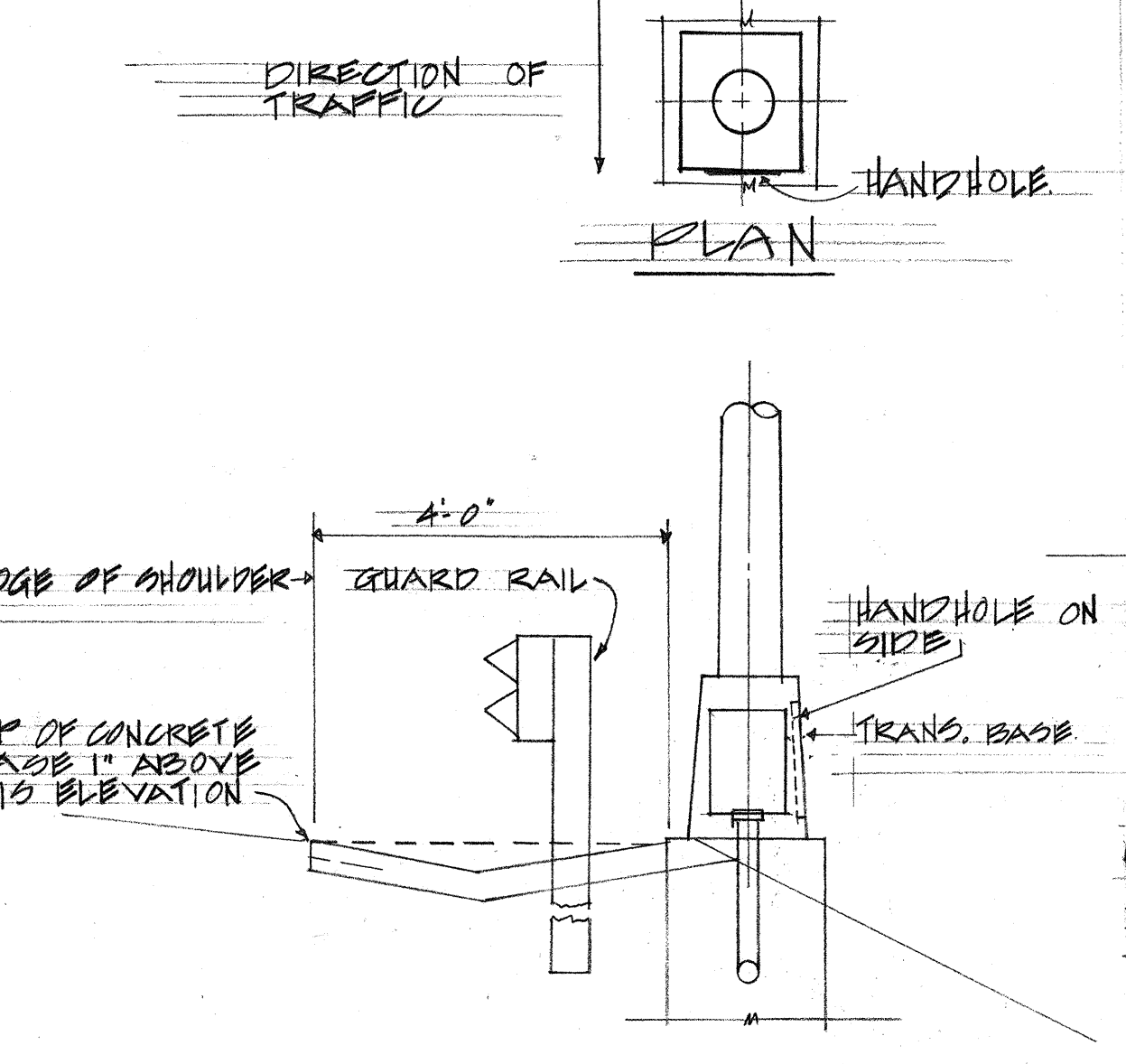
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(65):10 I-HI-(40):11	1969	64	185



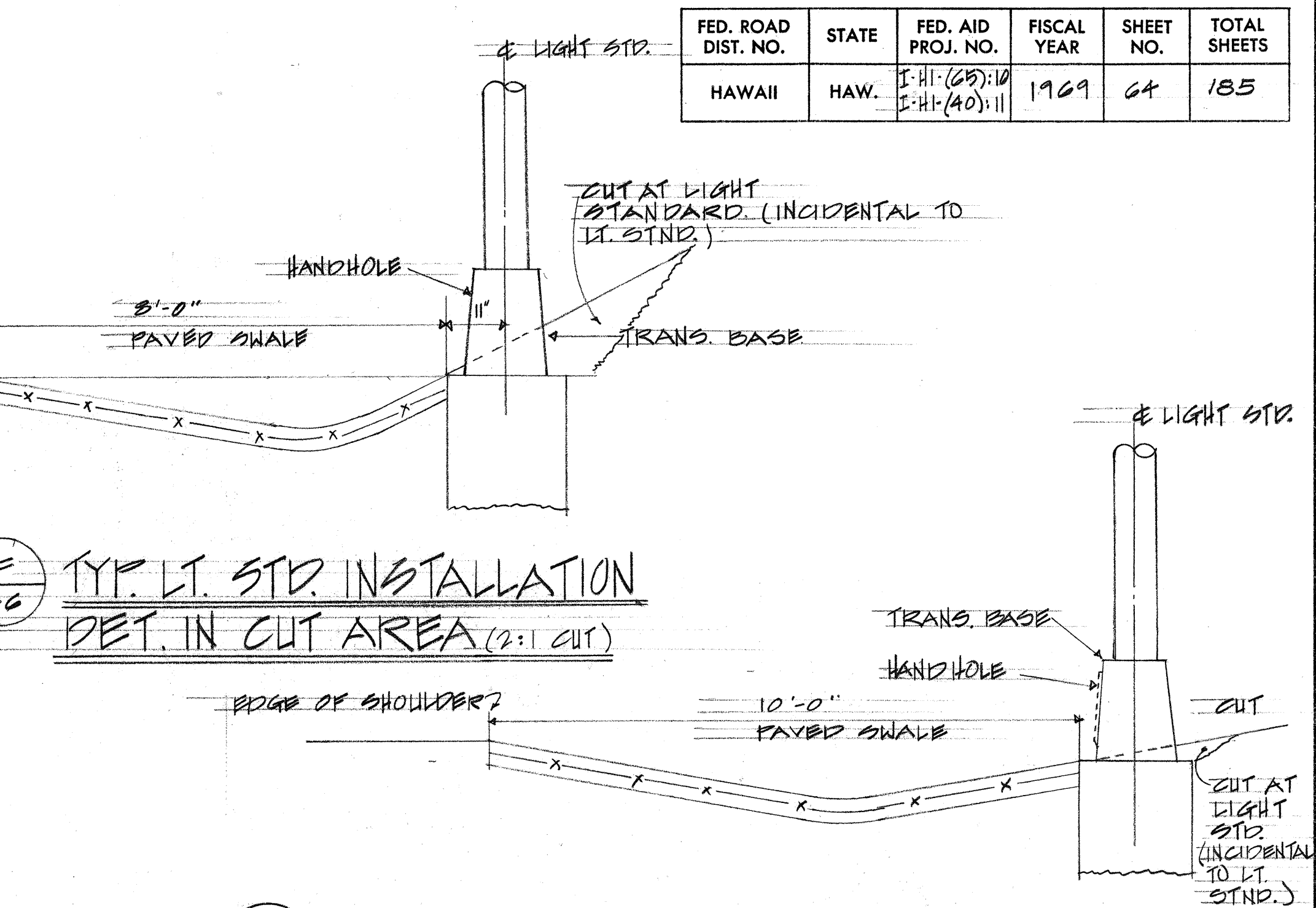
A LIGHT STANDARD AT BRIDGE
N.T.S.



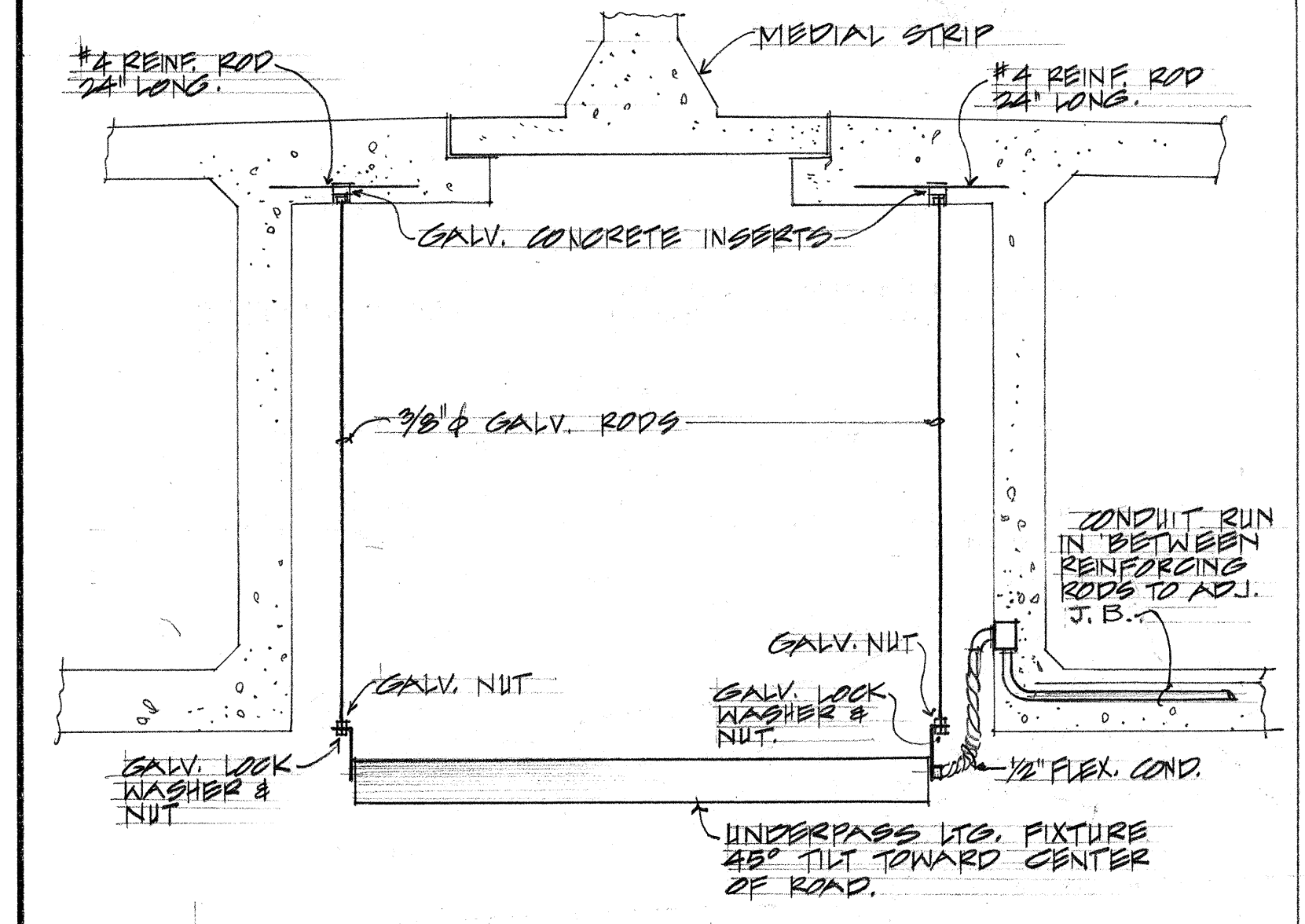
B LIGHT STANDARD AT STATION 57+00
N.T.S.



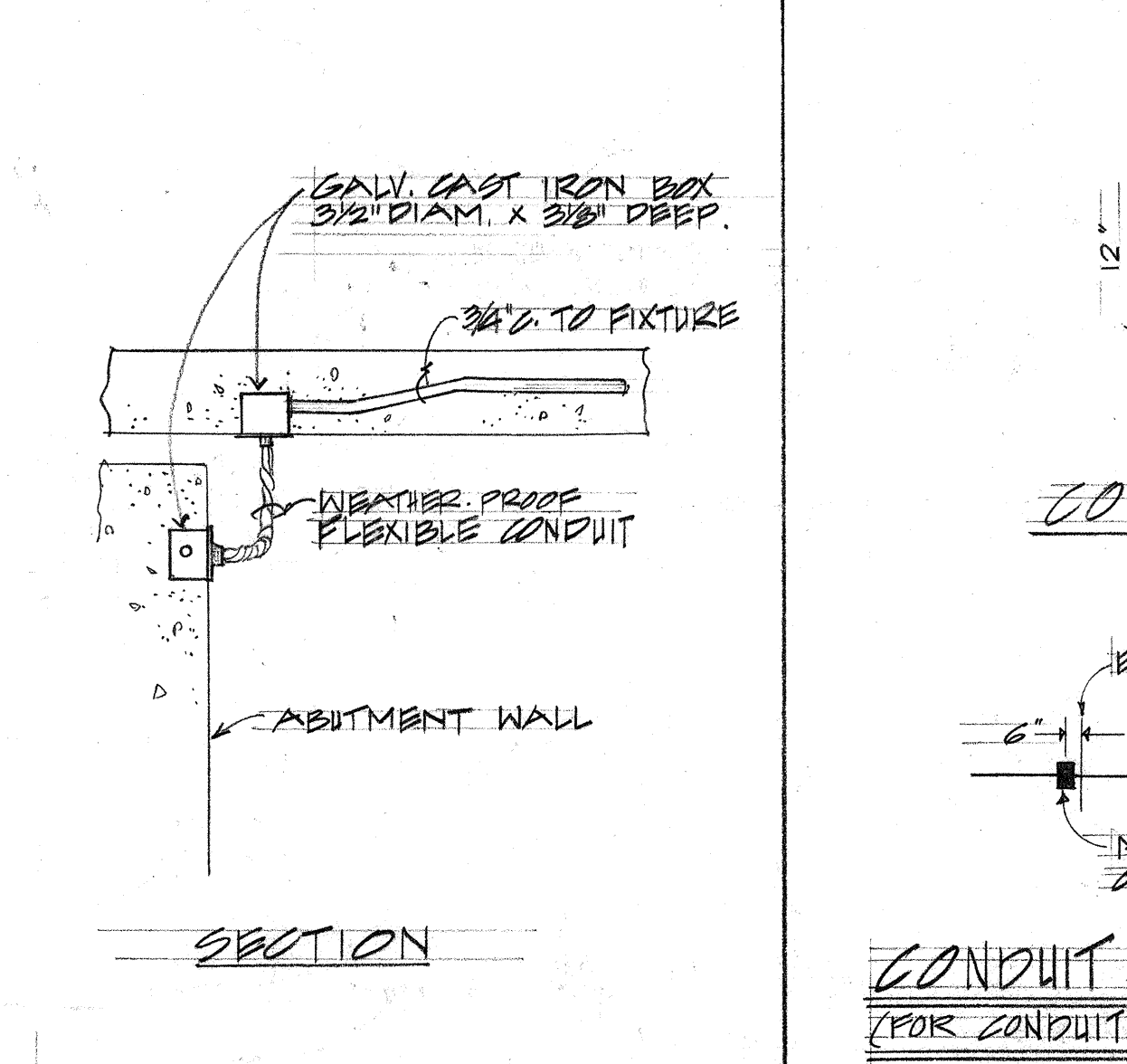
C TYPICAL LIGHT STANDARD INSTALLATION DETAIL IN FILL AREA
N.T.S.



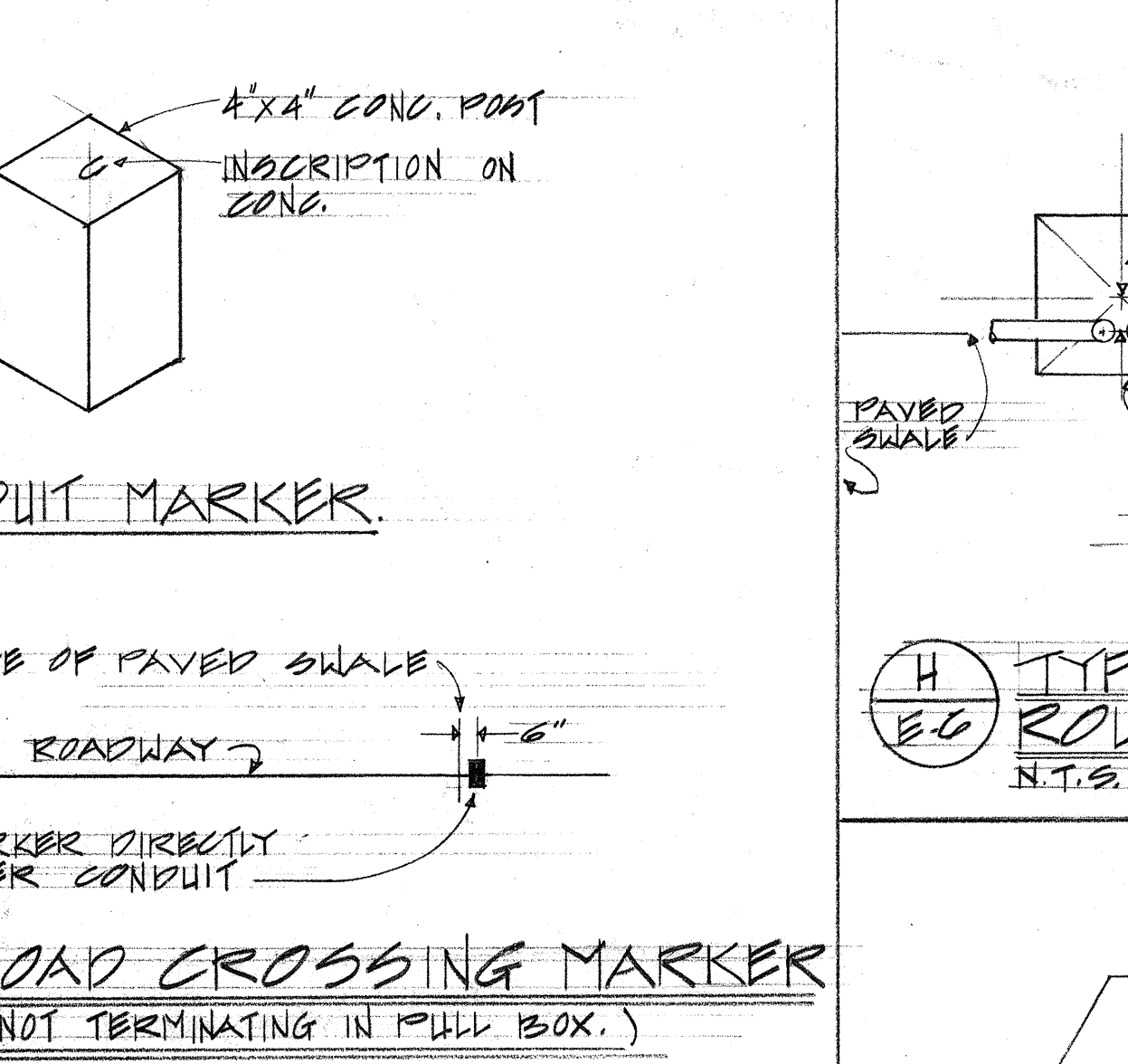
D TYPICAL LIGHT STANDARD INSTALLATION DET. IN CUT AREA (2:1 CUT)
N.T.S.



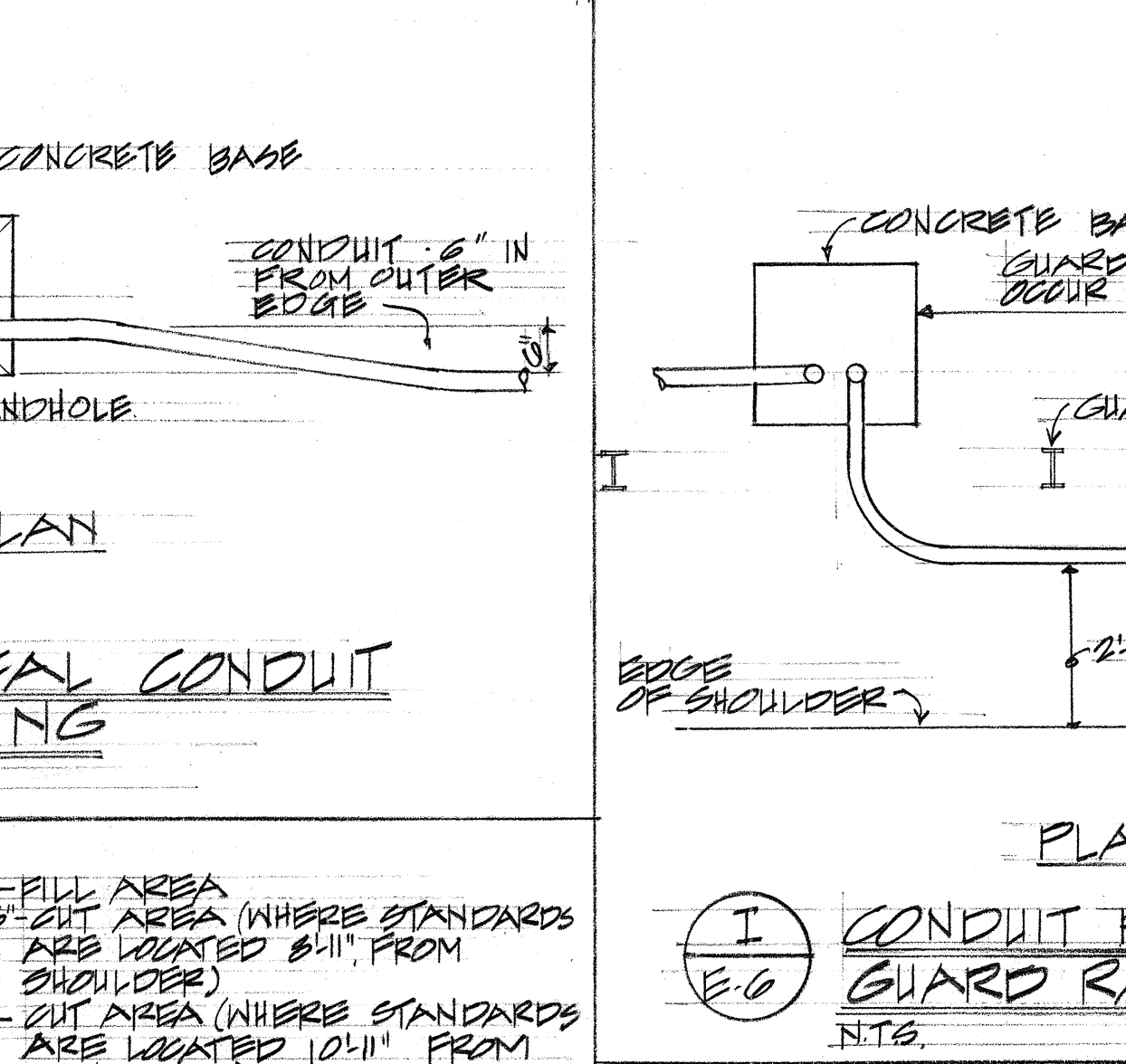
E FIXTURE MOUNTING AT MEDIAL STRIP
N.T.S.



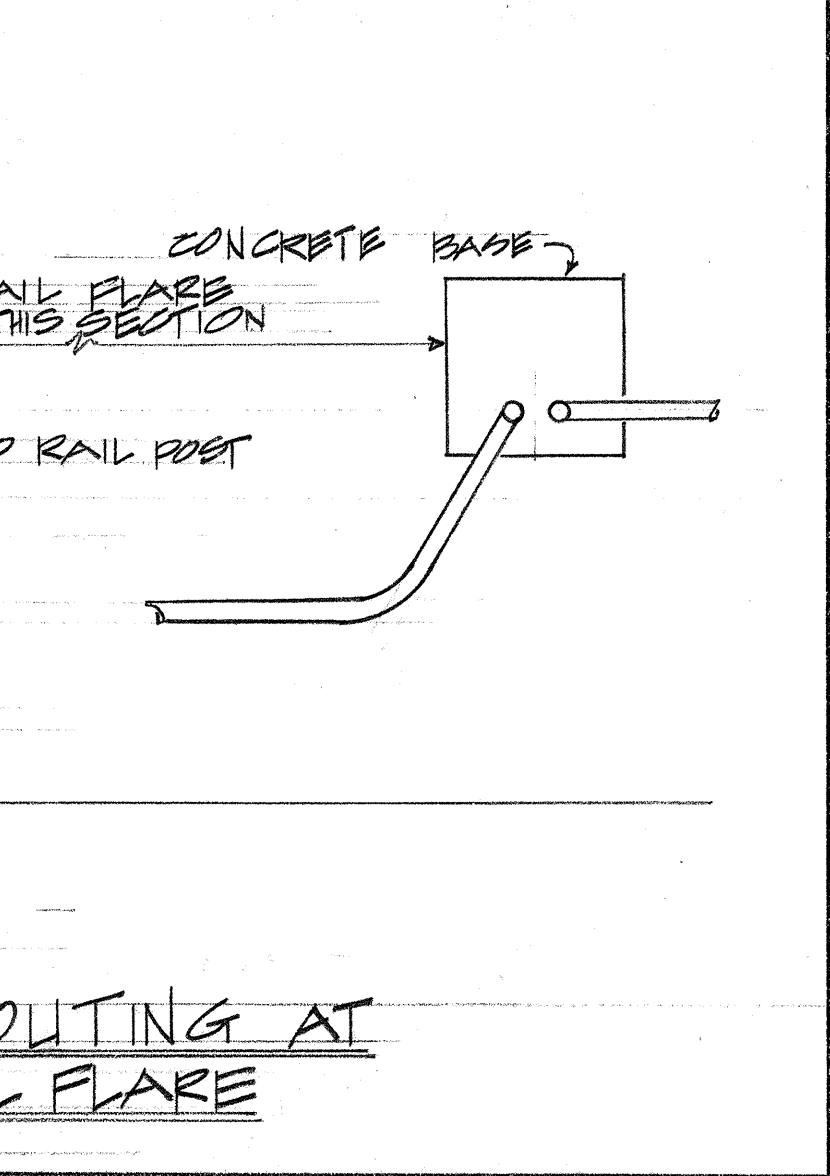
F TYPICAL WIRING FROM ABUTMENT WALL TO BRIDGE
N.T.S.



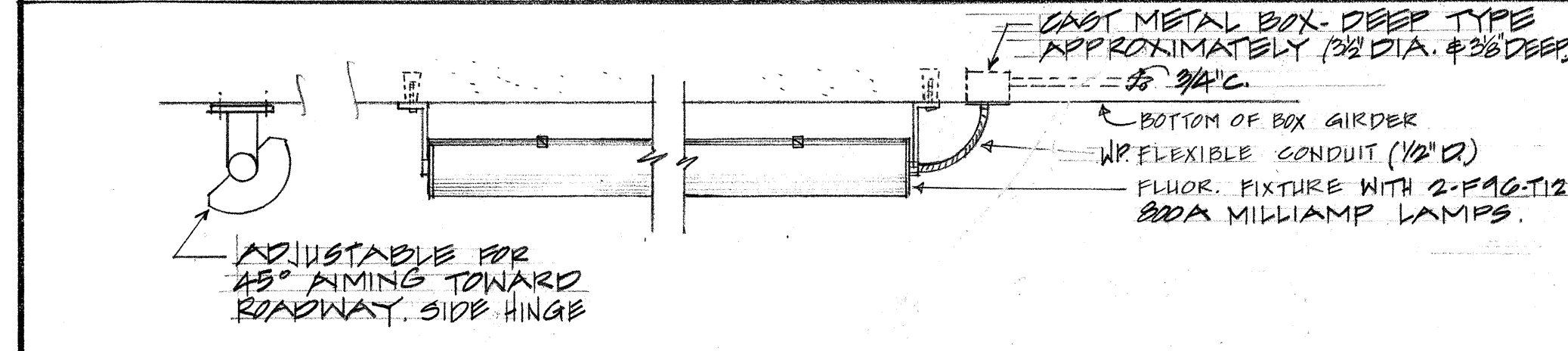
G CONDUIT ROAD CROSSING MARKER
N.T.S.



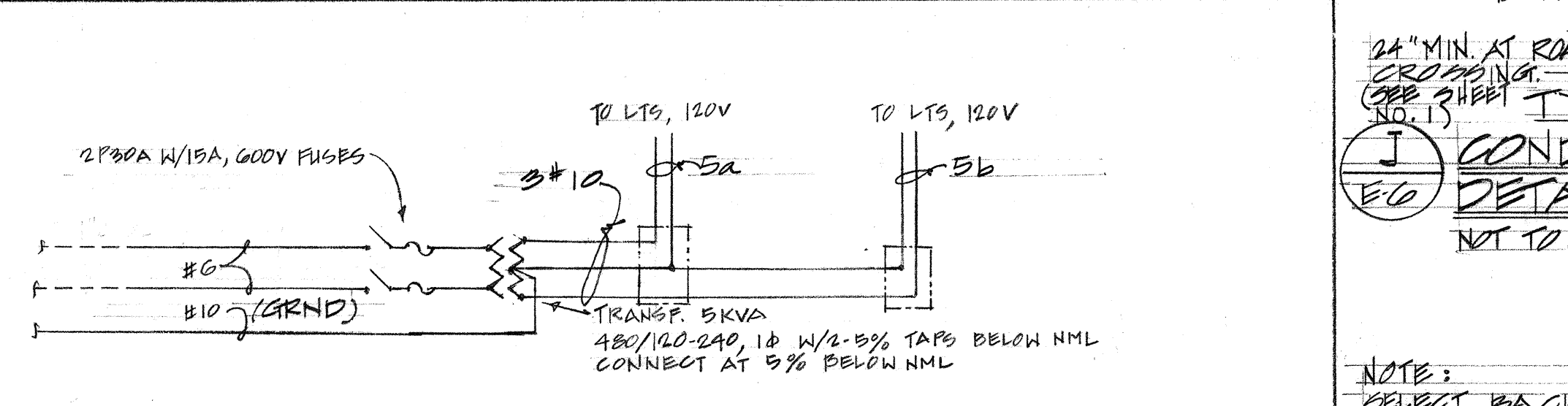
H TYPICAL CONDUIT ROUTING
N.T.S.



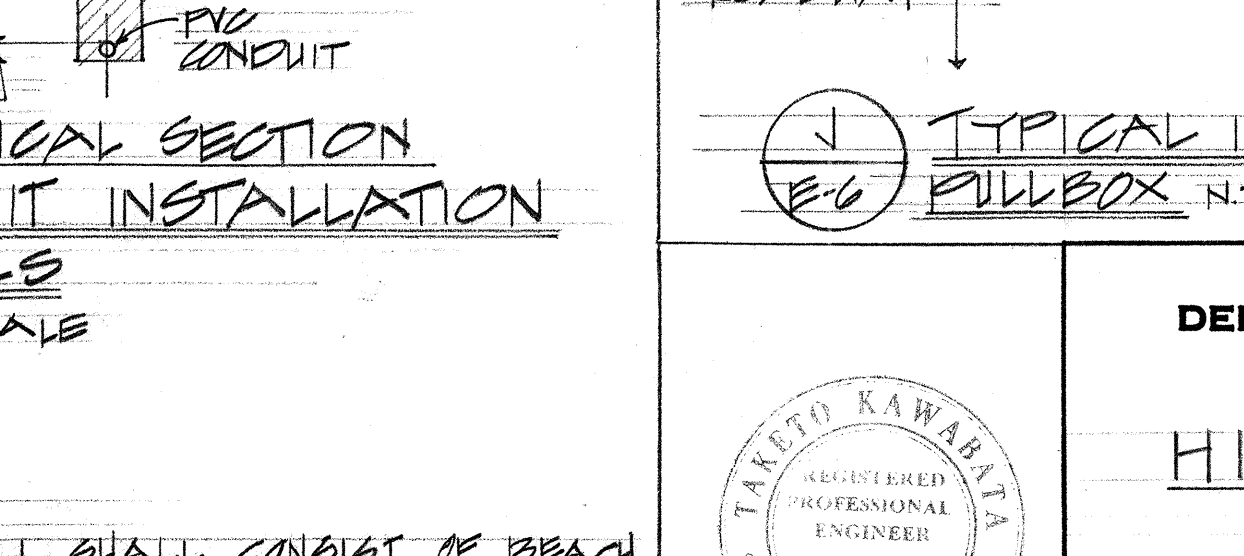
I CONDUIT ROUTING AT GUARD RAIL FLARE
N.T.S.



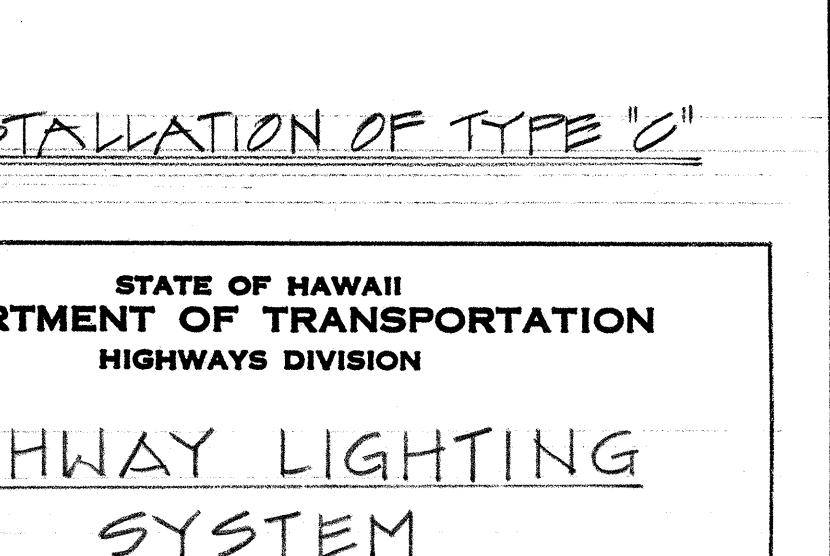
J FIXTURE MOUNTING & WIRING
N.T.S.



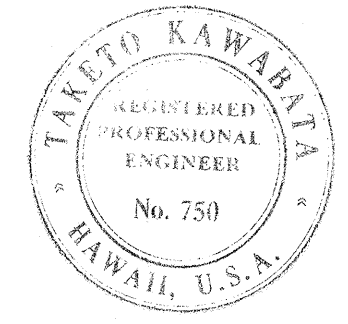
K UNDERPASS LT. DIAGRAM
N.T.S.



L TYPICAL SECTION CONDUIT INSTALLATION DETAILS
N.T.S.



M TYPICAL INSTALLATION OF TYPE 'C' PULL BOX
N.T.S.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING
SYSTEM

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1 (65):10

SCALE: AS SHOWN DATE
SHEET No. 6 OF 7 SHEETS

Taketo Kawahata

