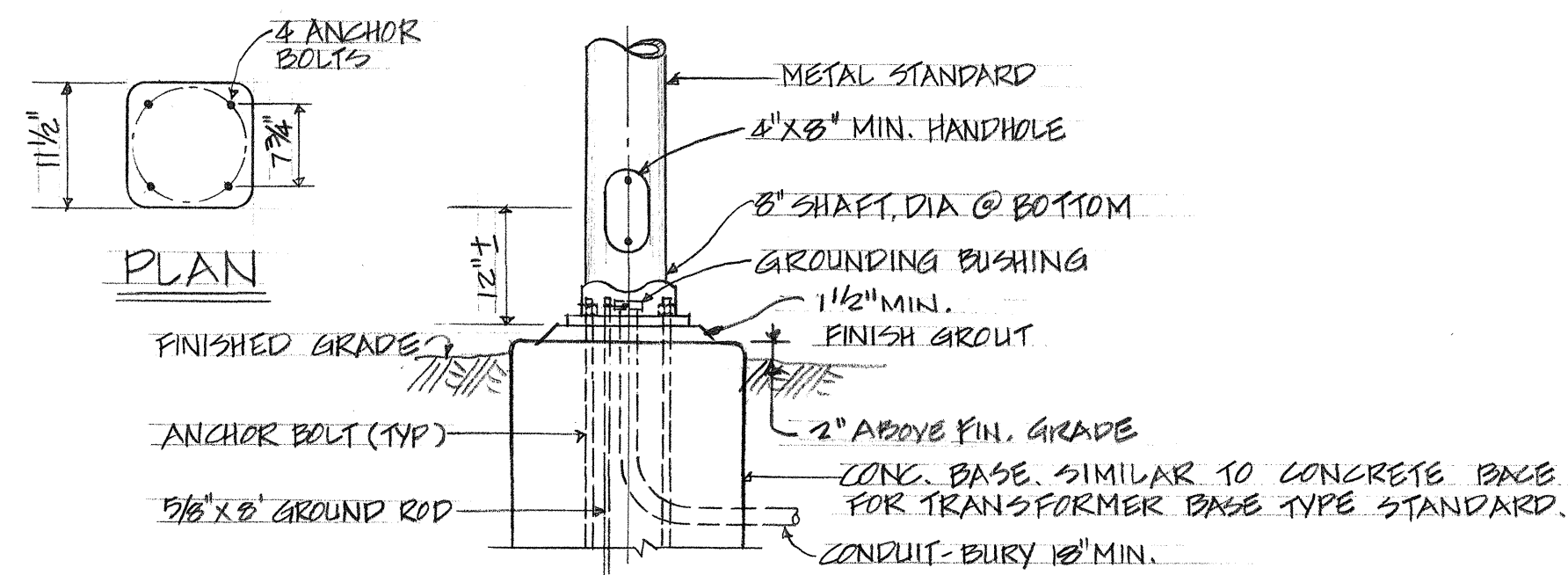
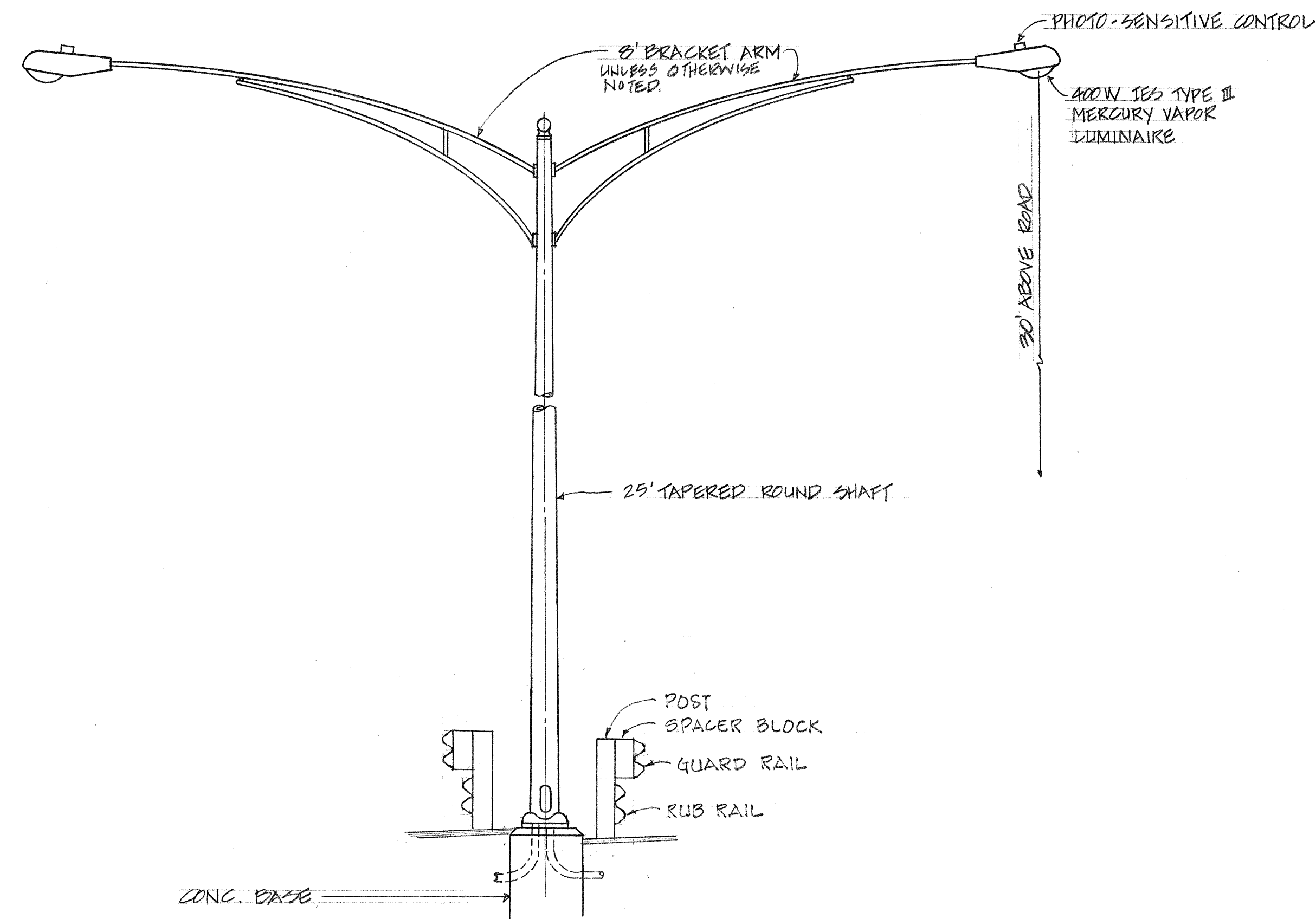


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-06H(15)	1969	32	37



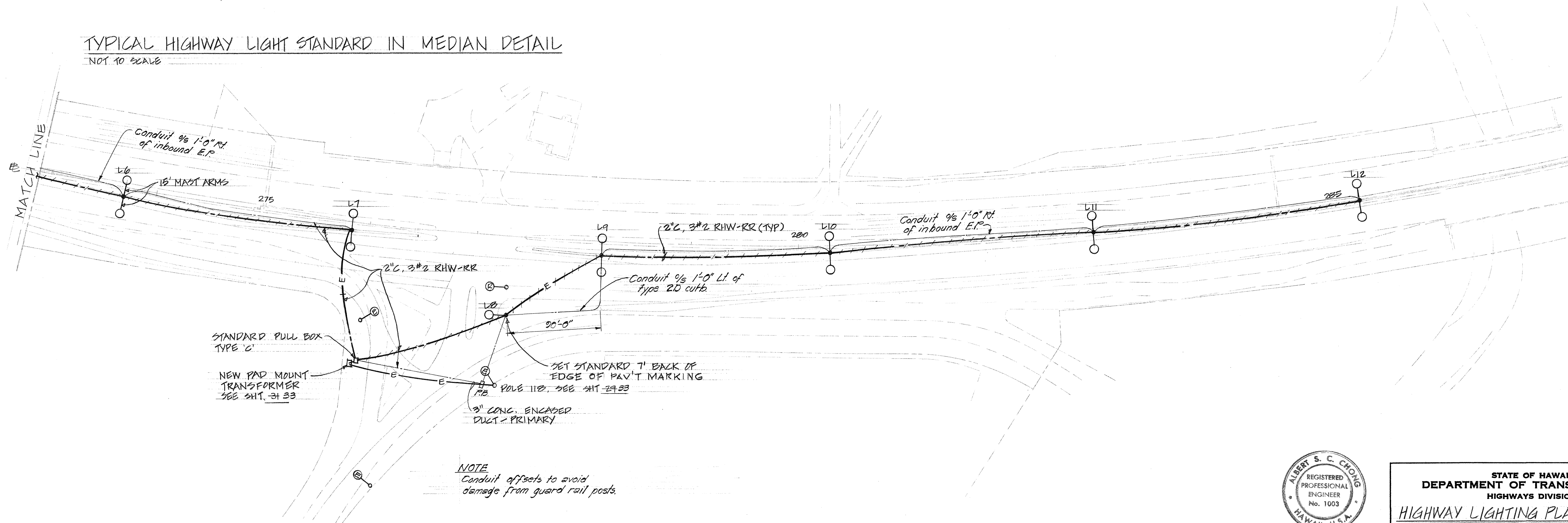
SECTION

ANCHOR BASE DETAIL

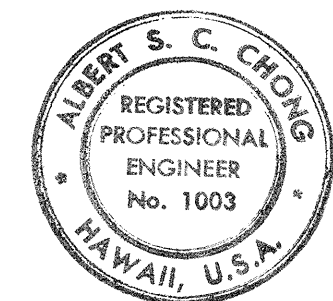
NOT TO SCALE

TYPICAL HIGHWAY LIGHT STANDARD IN MEDIAN DETAIL

NOT TO SCALE



HIGHWAY LIGHTING PLAN



Albert S. C. Chong

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING PLAN & DETAILS

INTERSECTION IMPROVEMENTS
ON KALANIANA'OLE HIGHWAY AT
MAUNAWILI ROAD

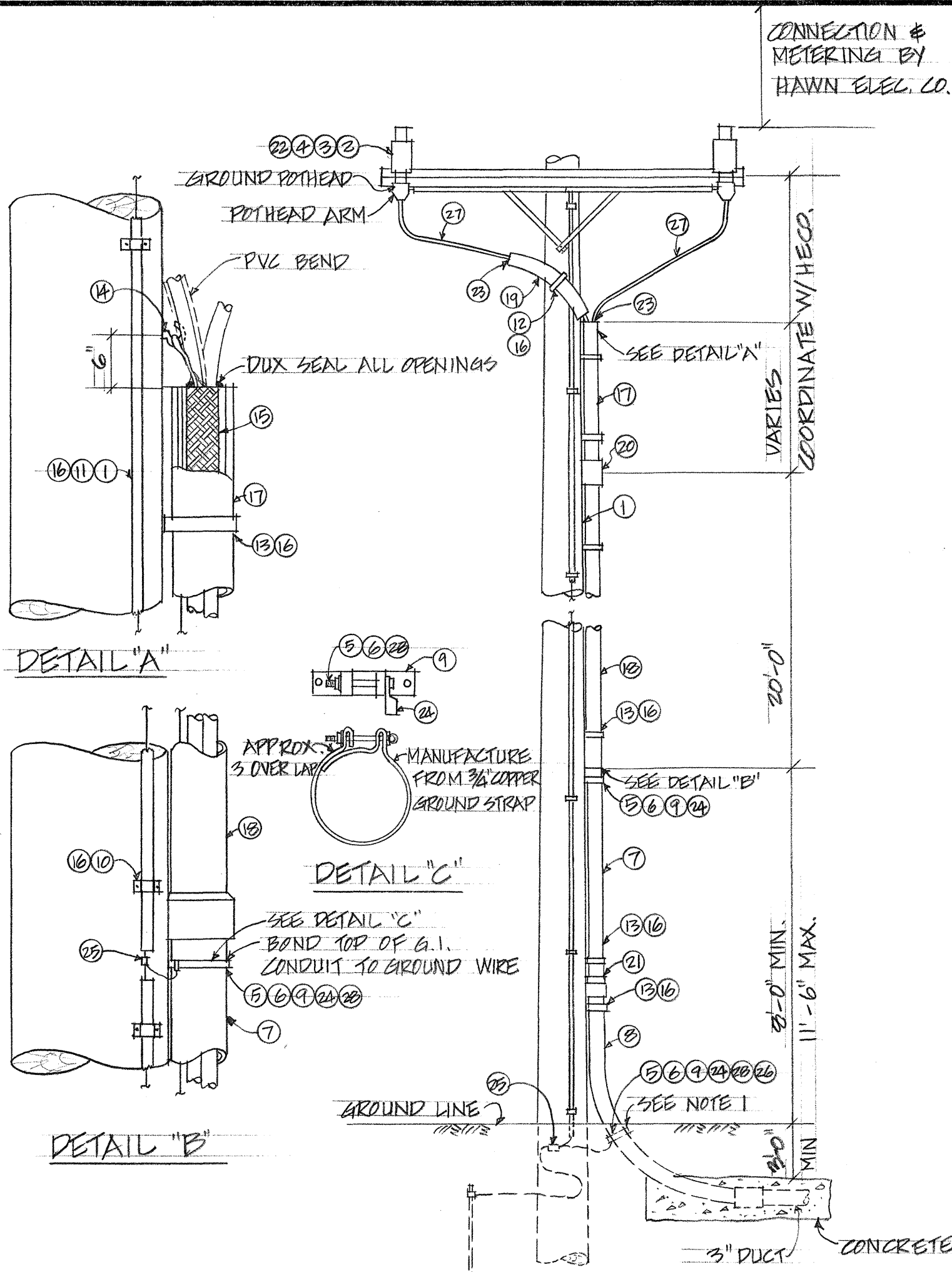
FEDERAL AID PROJECT NO. F-06H(15)
KAILUA, KOOLAUPOKO, OAHU, HAWAII

SCALE: AS NOTED FEB 1969

SHEET No. 2 OF 4 SHEETS

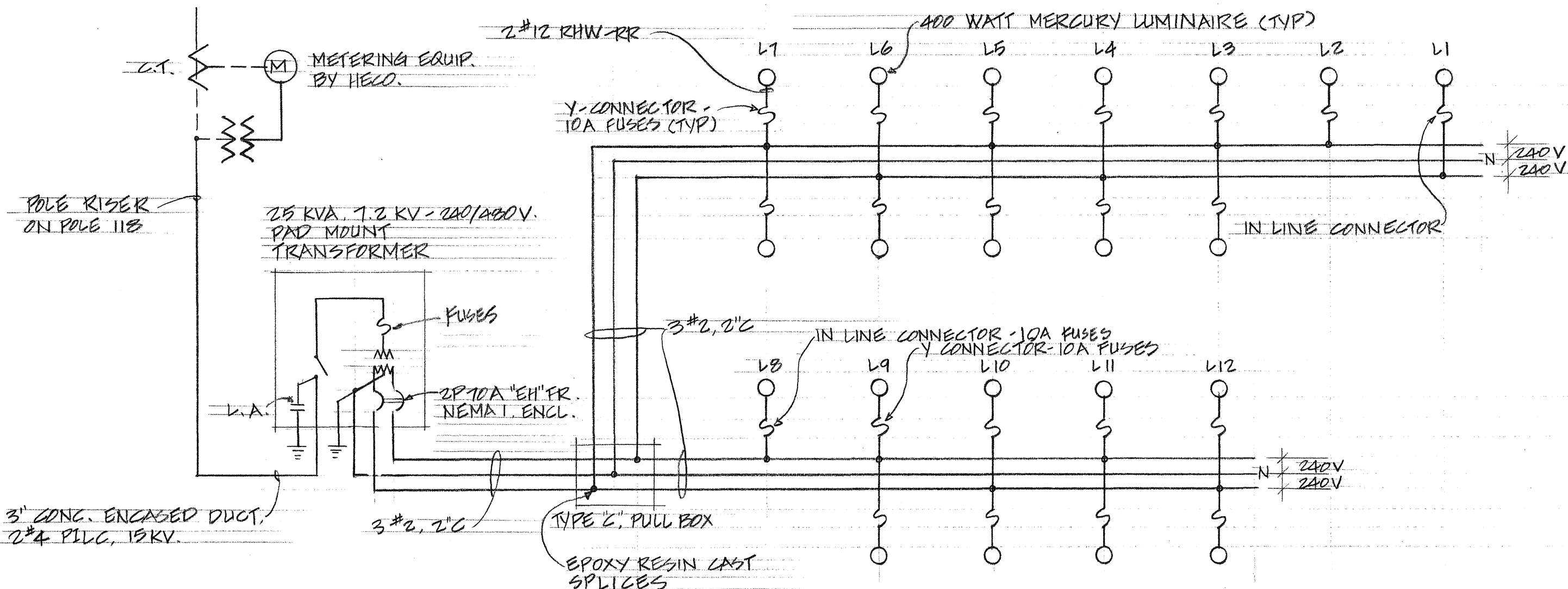
33 32

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-061-1(15)	1969	33	37



POLE P118 PRIMARY RISER DETAIL
NTS

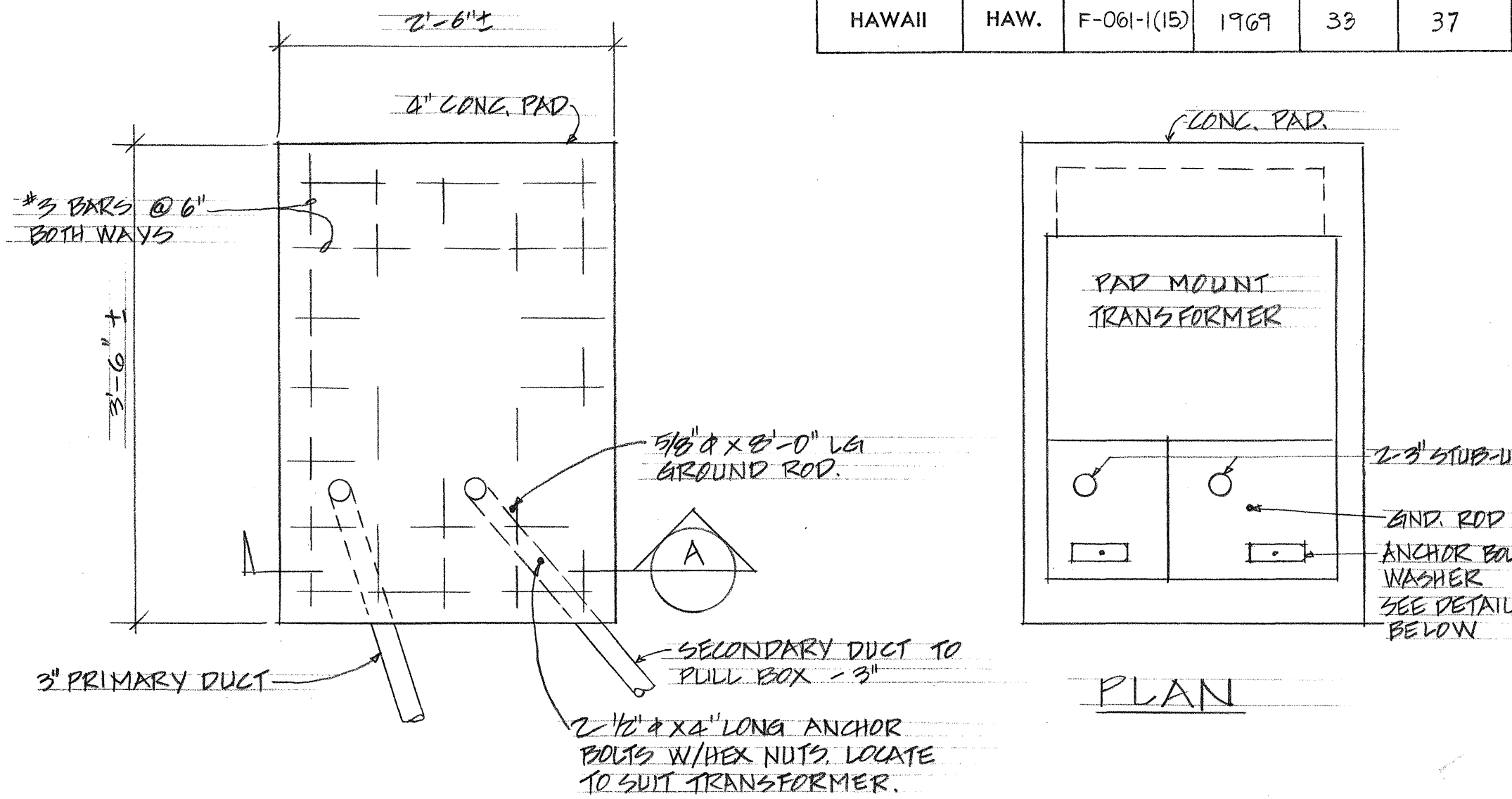
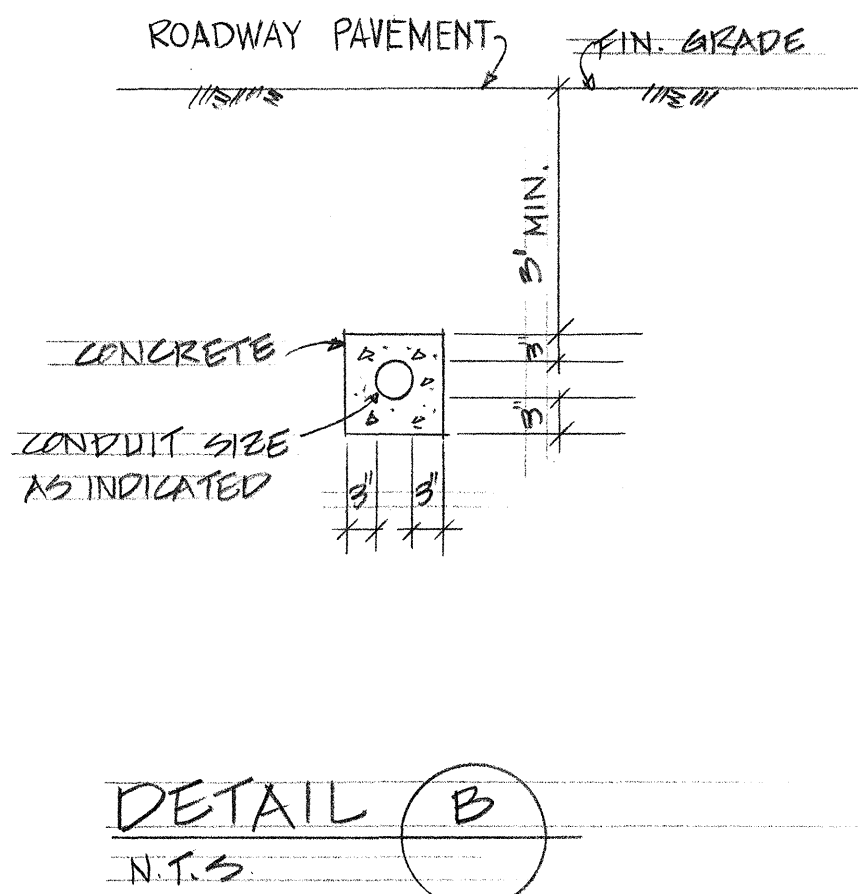
- NOTES: 1. THE GROUNDING STRAP IS TO BE INSTALLED AT A 6" MINIMUM DEPTH BELOW FINISHED GRADE, THE STRAP IS TO BE INSTALLED UNDER TENSION TO INSURE GOOD CONTACT, COVER THE GROUND CLAMP AND ADJACENT CONDUIT WITH TWO LAYERS OF 1/2 LAPPED WEATHERPROOF TAPE.
2. COORDINATE POLE SPACE WITH HAWAIIAN ELECTRIC CO.



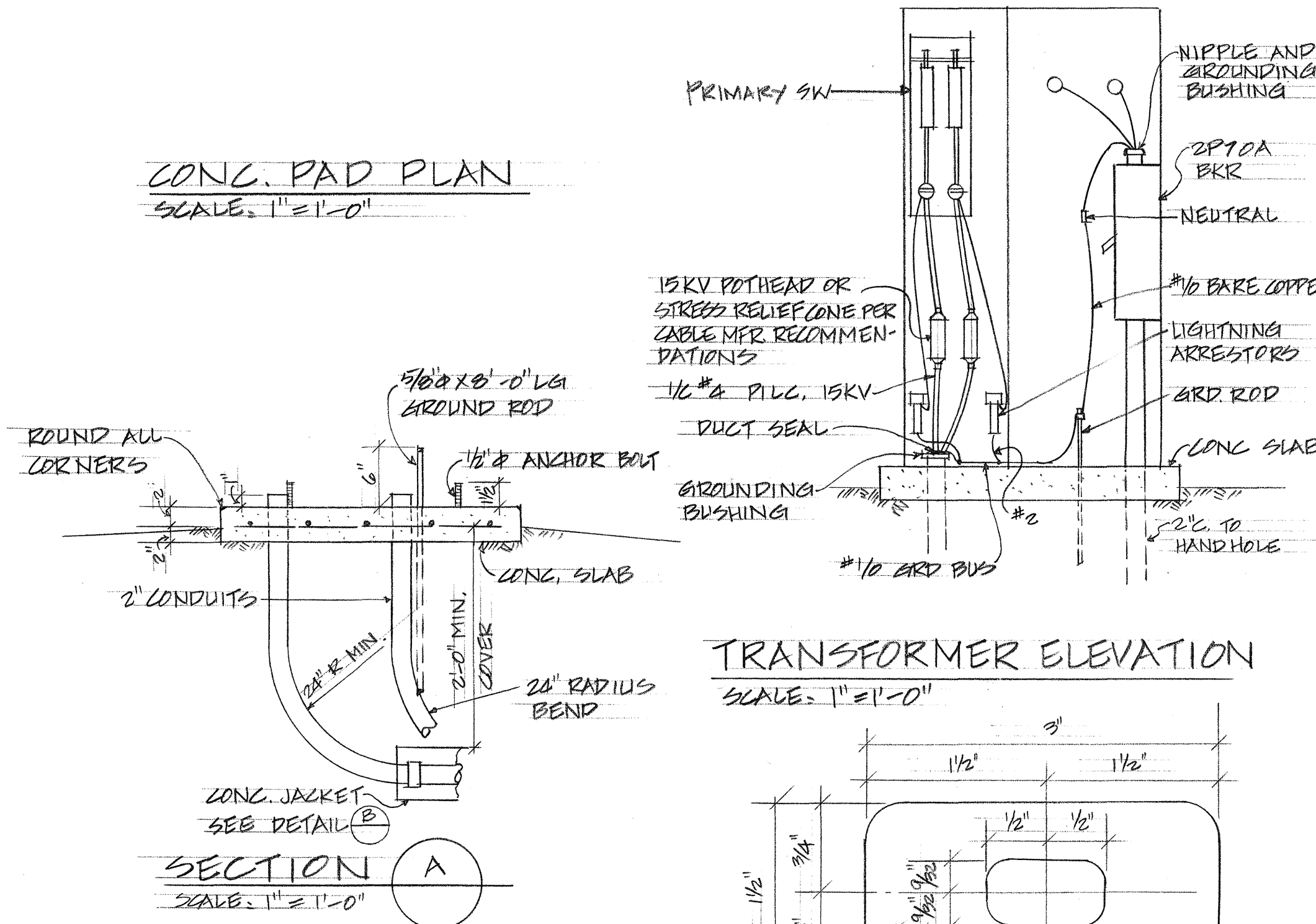
SINGLE LINE DIAGRAM

LIST OF MATERIAL

ITEM	DESCRIPTION	REMARKS
1	MOULDING WOOD	
2	BOLT, 1/2" X 6" GALVANIZED MACHINE	
3	NUT, 1/2" GALVANIZED SQUARE	
4	WASHER, 1/2" GALVANIZED ROUND	
5	BOLT, 1/4" X 2" DURONZE MACHINE	
6	WASHER, 1/4" DURONZE LOCK	
7	CONDUIT, G.I., 3"	
8	BEND G.I. CONDUIT LONG RADIUS 3" DIAM	
9	STRAP, AROUND 3/4" COPPER (SEE DETAIL 'C')	
10	STRAP, 1/2" GALVANIZED, 2 HOLE PIPE.	
11	STRAP, GALVANIZED, 2 HOLE PIPE (SIZE AS REQUIRED FOR ITEM 1.)	
12	STRAP, 2 1/2" GALVANIZED, 2 HOLE PIPE.	
13	STRAP, GALVANIZED, 2 HOLE PIPE (SIZE AS REQUIRED FOR ITEMS 7, 8, 17 & 18.)	
14	HOOK, BRONZE.	
15	CABLE GRIP, BRONZE	
16	NAIL, 1 1/2" GALVANIZED PAPER ROOFING	
17	CONDUIT, PVC, 3"	
18	CONDUIT, PVC WITH BELLED END, 3"	
19	BEND, 2 1/2" 45° PVC	
20	COUPLING, PVC, 3"	
21	COUPLING, G.I. REDUCING CONDUIT	
22	POTHEAD, 1/2" OUTDOOR, 15KV	
23	SEAL, DUX	
24	HYLUG, #4	
25	SERVIT, #4 COPPER	
26	TAPE, WEATHERPROOF	
27	CABLE, 1/2 15 KV PILC - #4 STRANDED	
28	NUT, 1/4" DURONZE HEXAGON	

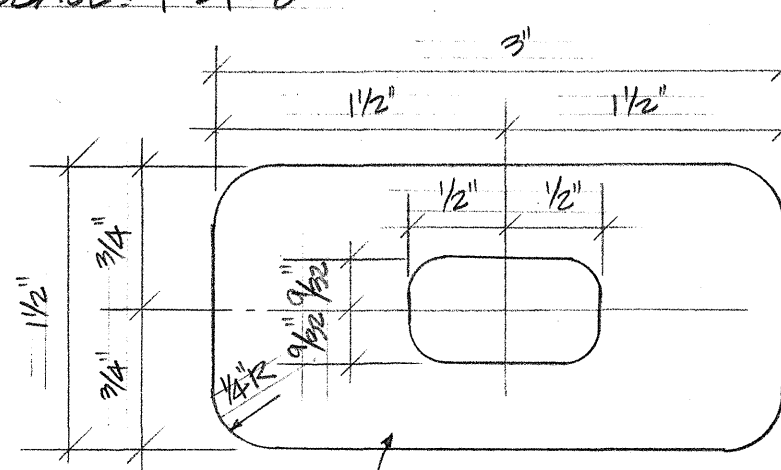


CONC. PAD PLAN
SCALE: 1" = 1'-0"



SECTION A
SCALE: 1" = 1'-0"

TRANSFORMER ELEVATION
SCALE: 1" = 1'-0"



NOTE: GALVANIZE AFTER FABRICATION

ANCHOR BOLT WASHER
SCALE: FULL SIZE

PAD MOUNT TRANSFORMER DETAILS

- NOTES: 1. CONC. PAD SIZE TO BE ADJUSTED TO SUIT TRANSFORMER FURNISHED.
2. CONC. PAD TO BE POURED ON FIRM UNDISTURBED SOIL.
3. TOP OF CONC. PAD TO BE SMOOTH, TRUE & LEVEL, OTHER EXPOSED SURFACES TO BE SMOOTH & FREE FROM DEFECTS.
4. LOCATE CONDUIT STUB-UPS & ANCHOR BOLTS TO SUIT TRANSFORMER FURNISHED.
5. GROUND BUS TO BE #1/2 B.C. EQUIPMENT. CONDUIT, # LIGHTNING ARRESTOR GRD. WIRE TO BE #2 B.C.



Albert S. C. Chong

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

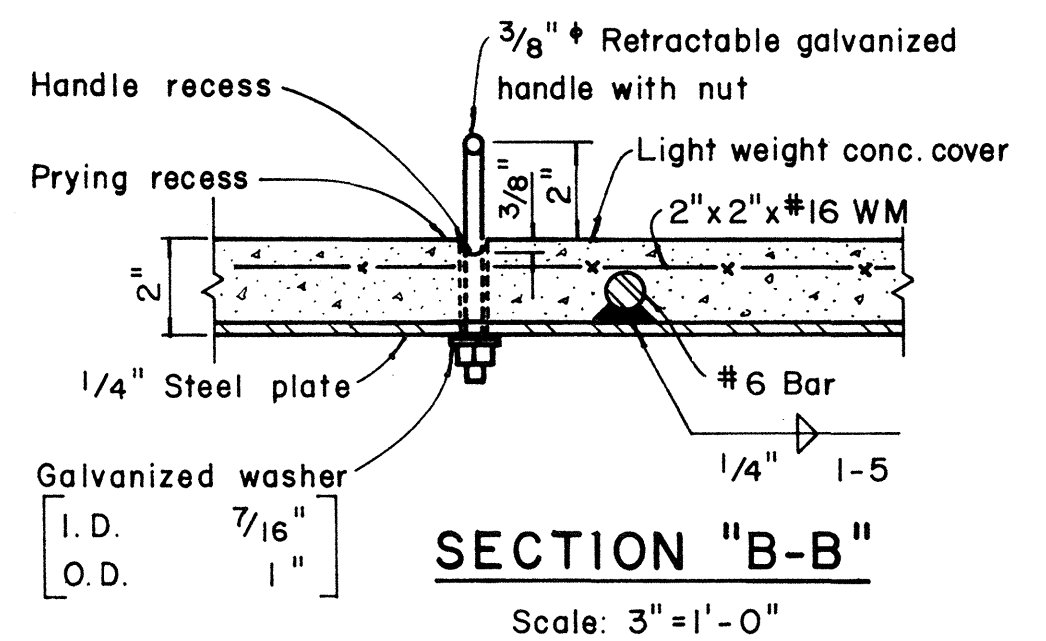
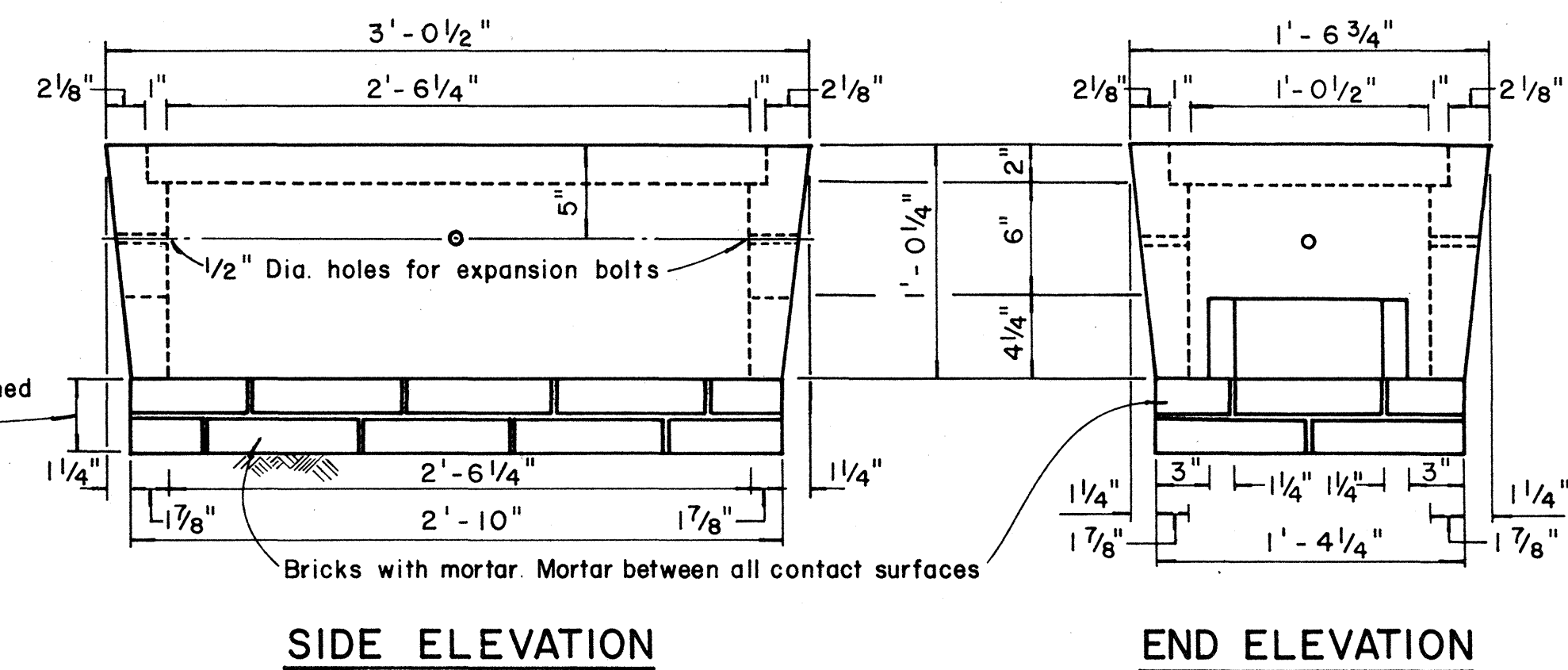
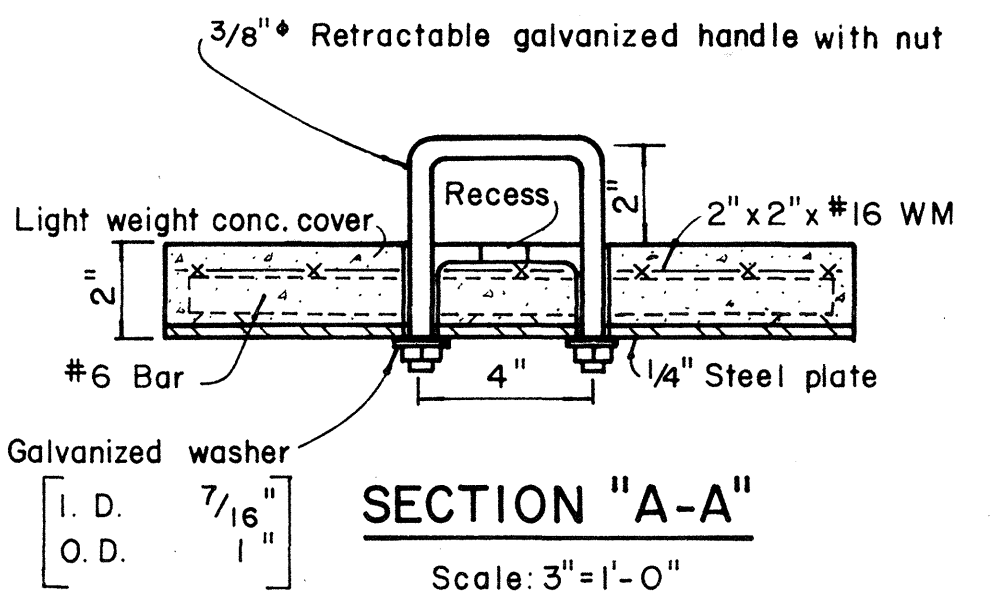
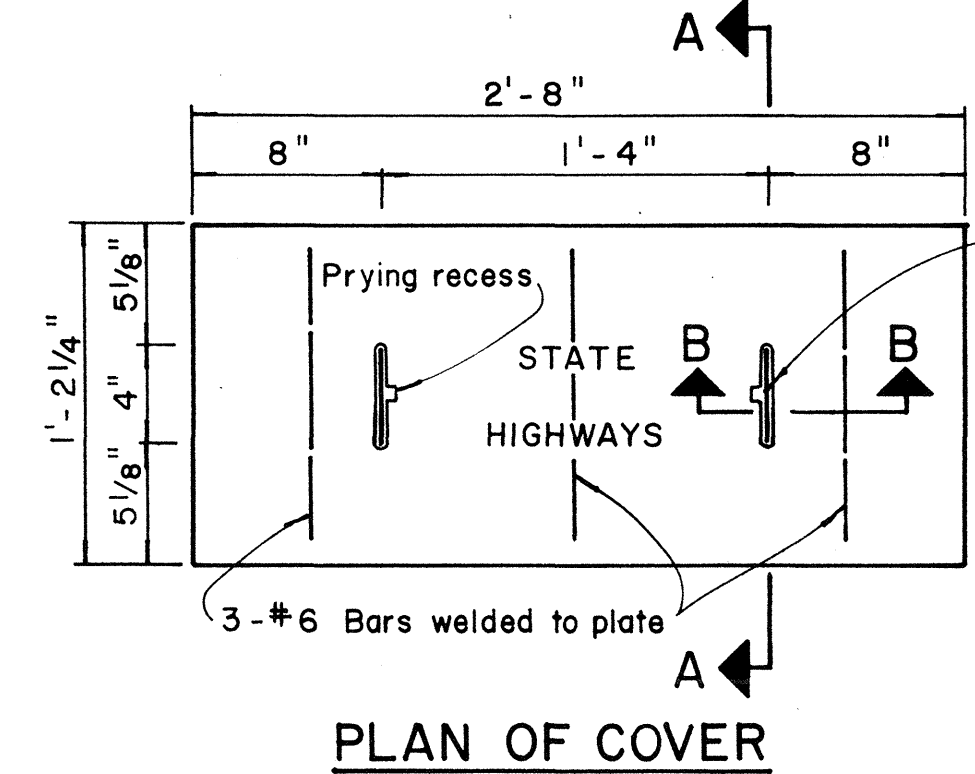
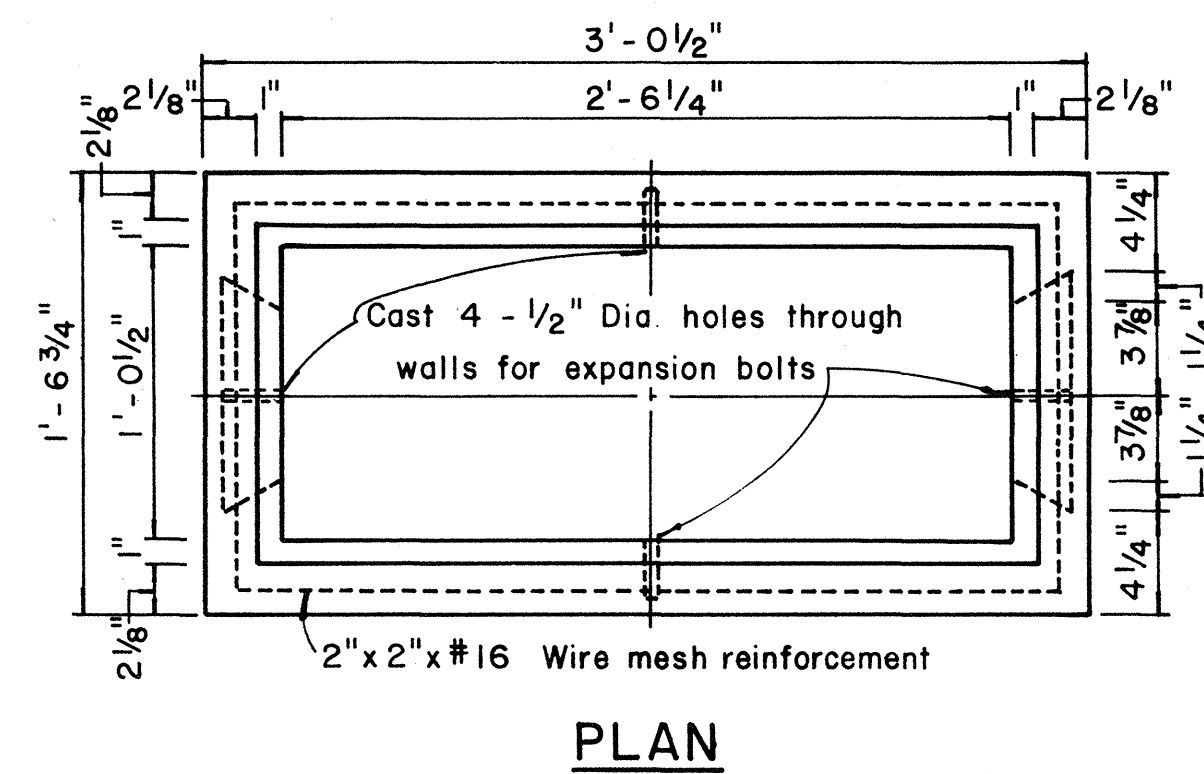
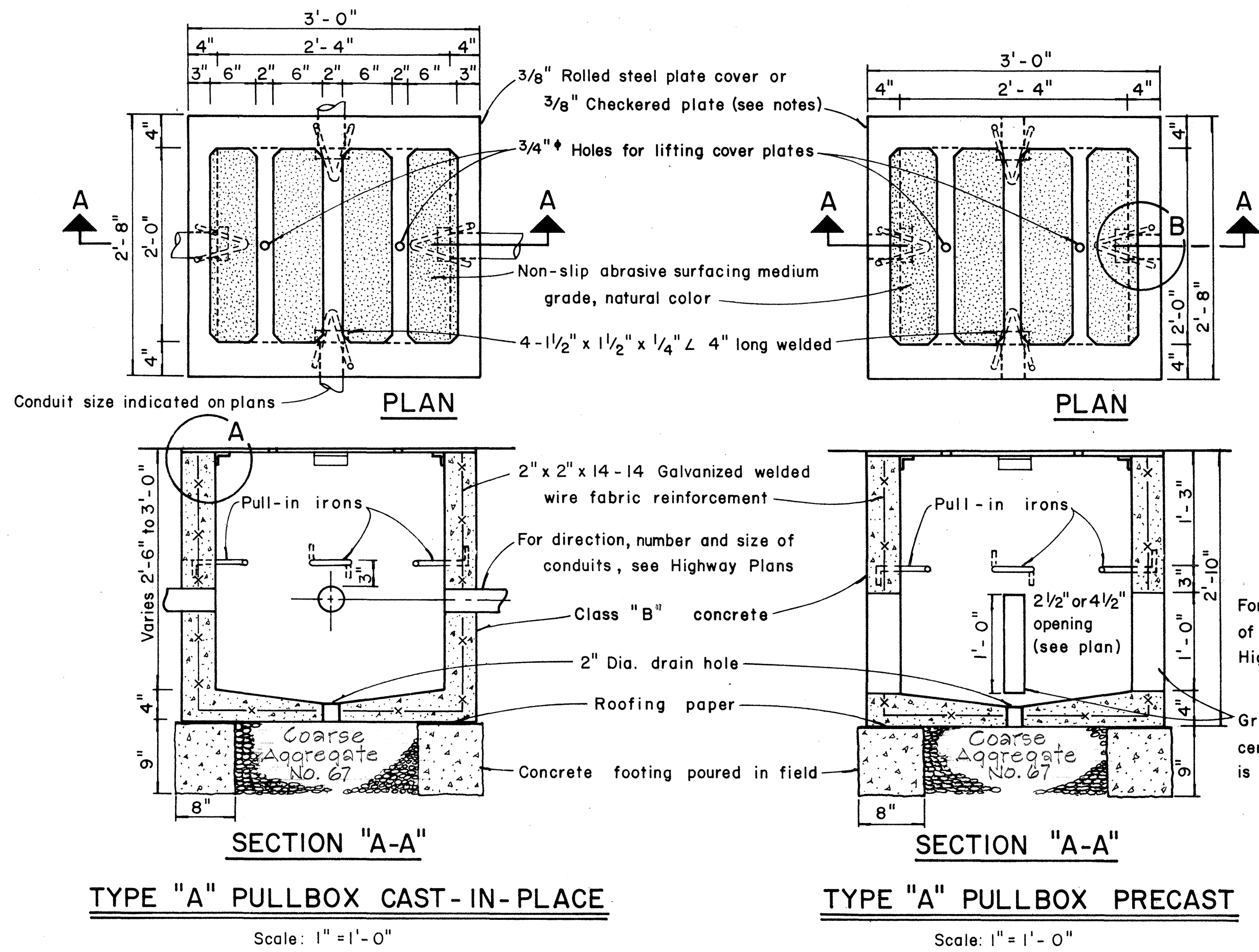
ELECTRICAL DETAILS

INTERSECTION IMPROVEMENTS
ON KALANIANAOLE HIGHWAY AT
MAUNAWILI ROAD

FEDERAL AID PROJECT NO. F-061-1(15)
KAIALUA, KOOLAUPOKO, OAHU, HAWAII
SCALE: AS NOTED 1969

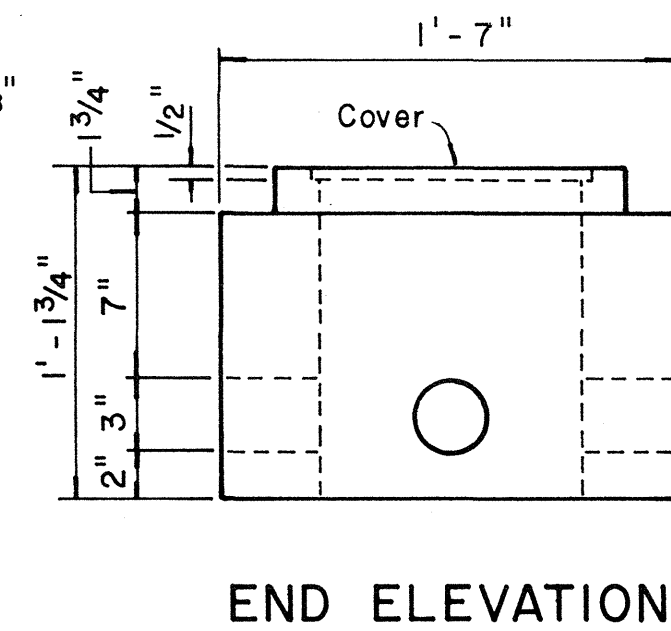
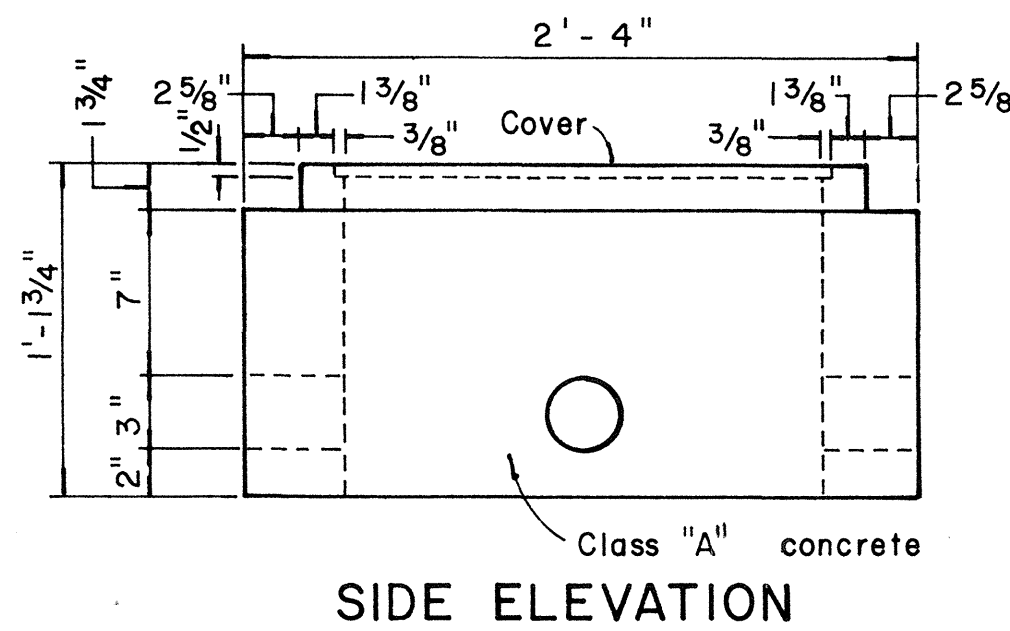
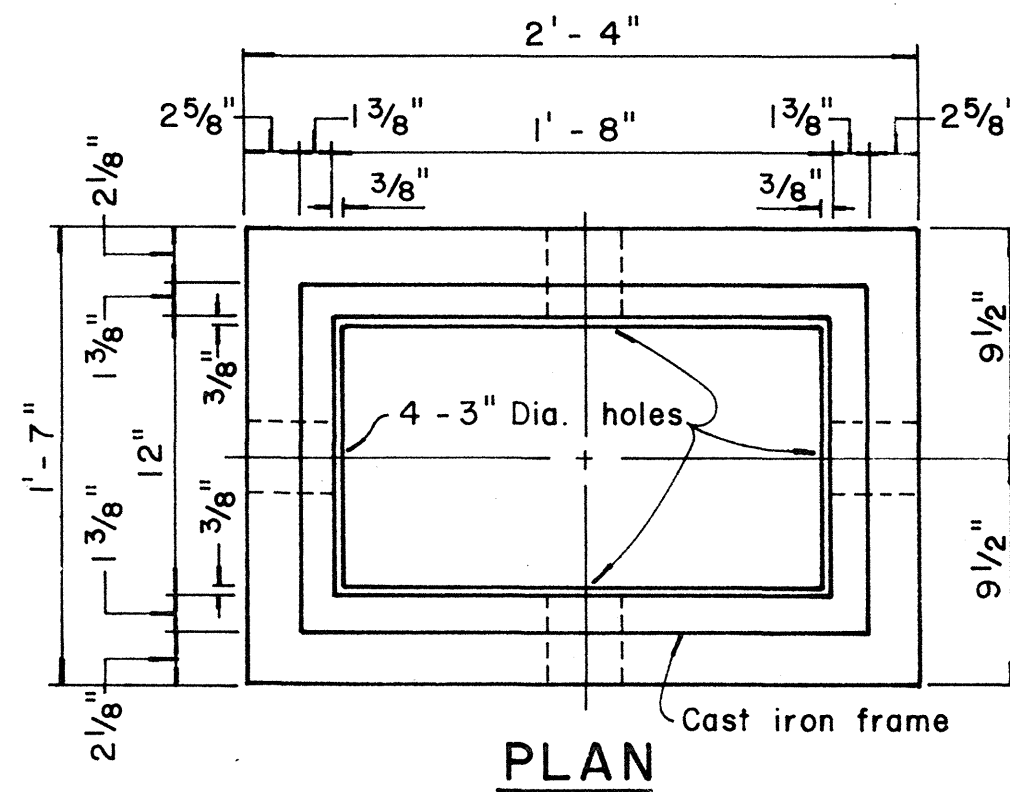
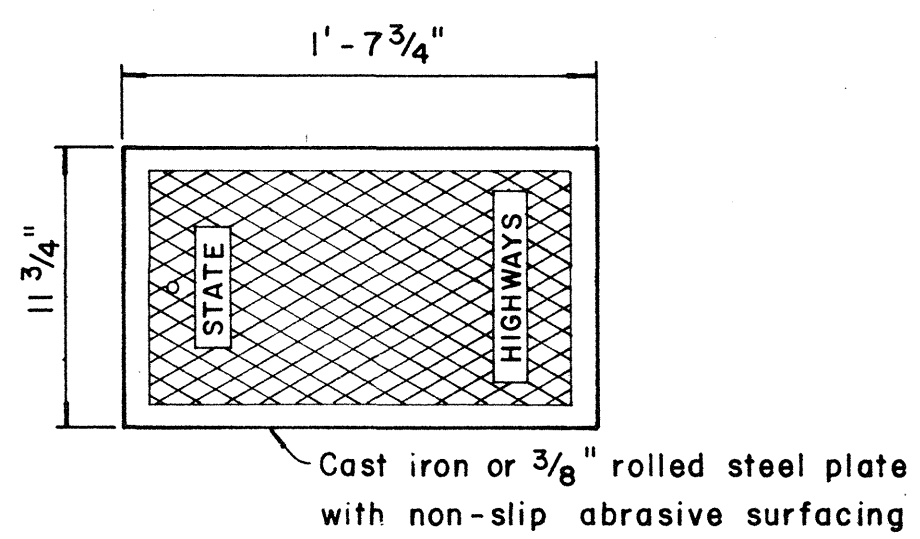
SHEET No. 3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-0614(15)	1969	34	37

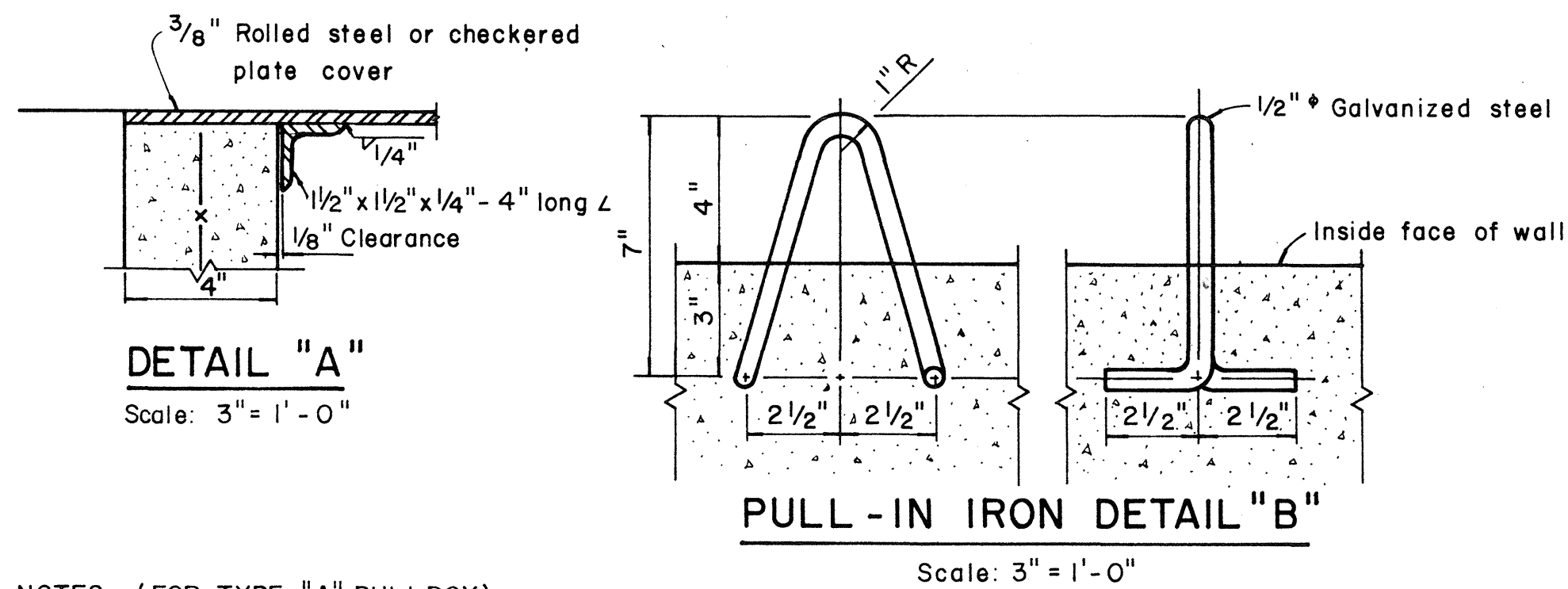


TYPE "C" PULLBOX
Scale: 1/2" = 1'-0"

NOTE:
Steel rim shall be welded to bottom of steel cover if necessary so that top of cover and frame are flush.



TYPE "B" PULLBOX
Scale: 1/2" = 1'-0"



NOTES: (FOR TYPE "A" PULLBOX)

- 3/8" Rolled steel plate cover with non-slip abrasive surfacing medium grade, natural color shall be used on all pullboxes located on sidewalk areas where pedestrians are walking.
- 3/8" Checkered plate cover shall be used on all pullboxes located in median areas and other locations where there are no pedestrians walking.
- Pull irons shall be placed opposite each conduit slot.
- Covers on all pullboxes located in sidewalk areas shall be set flush with the concrete sidewalk.
- Each pullbox shall have a pair of pull irons opposite each other for lifting purposes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
PULLBOXES

Scale as noted Date
SHEET No. 4 OF 4 SHEETS

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	