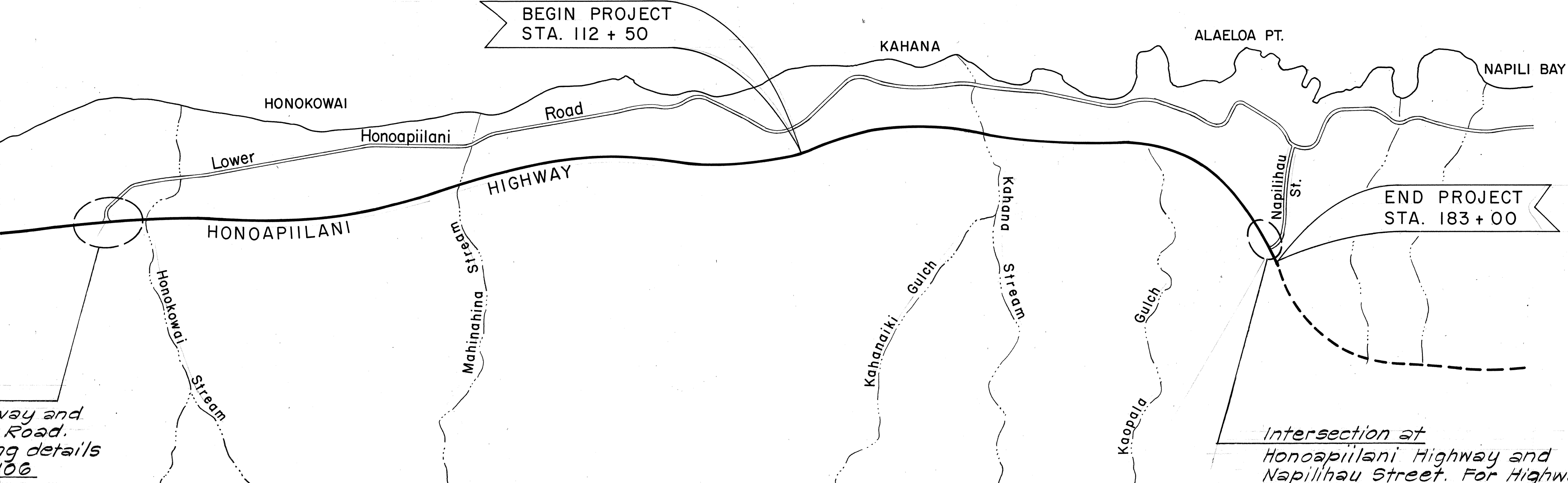


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F030-1(13)	1978	105	174



Intersection at
Honoapiilani Highway and
Lower Honoapiilani Road.
For Highway Lighting details
see Plan Sht. No. 106

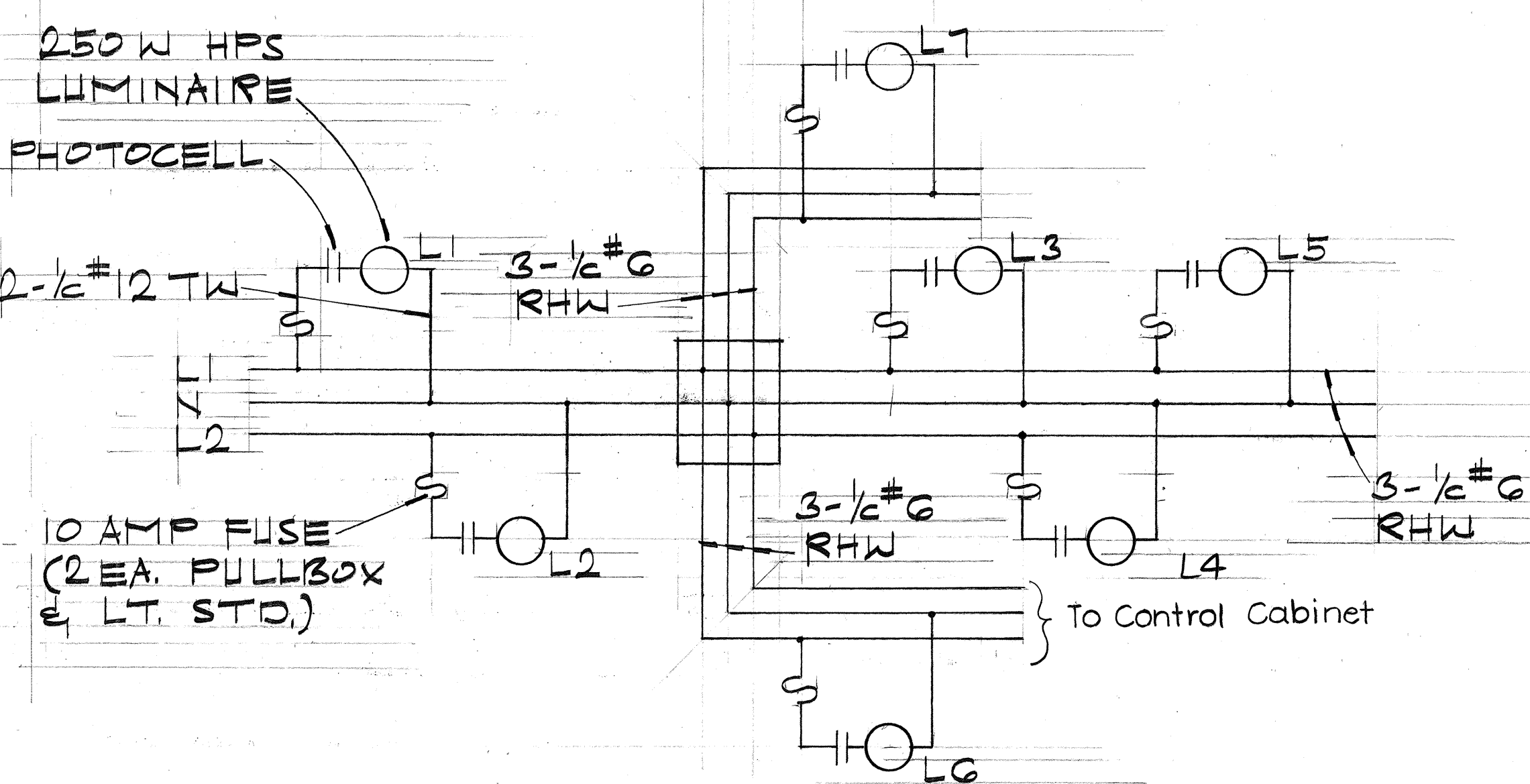
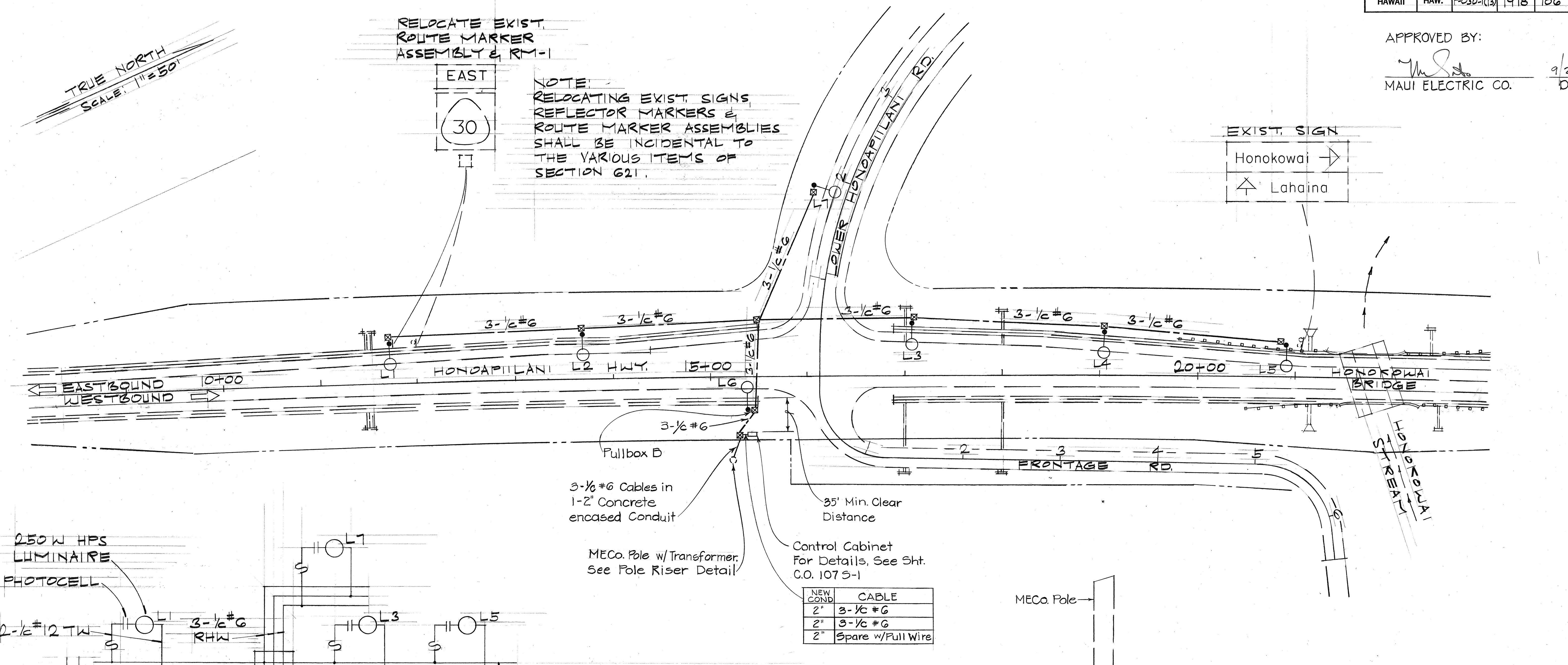
Intersection at
Honoapiilani Highway and
Napilihau Street. For Highway
Lighting details see Plan Sht.
No. 107

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
INTERSECTION LIGHTING
LOCATIONS
HONOAPIILANI HIGHWAY
KAHANA TO ALAELOA
F.A. Proj. No. F030-1(13)
Scale: As Shown Date: Feb., 1978
SHEET NO. 1 OF 5 SHEETS

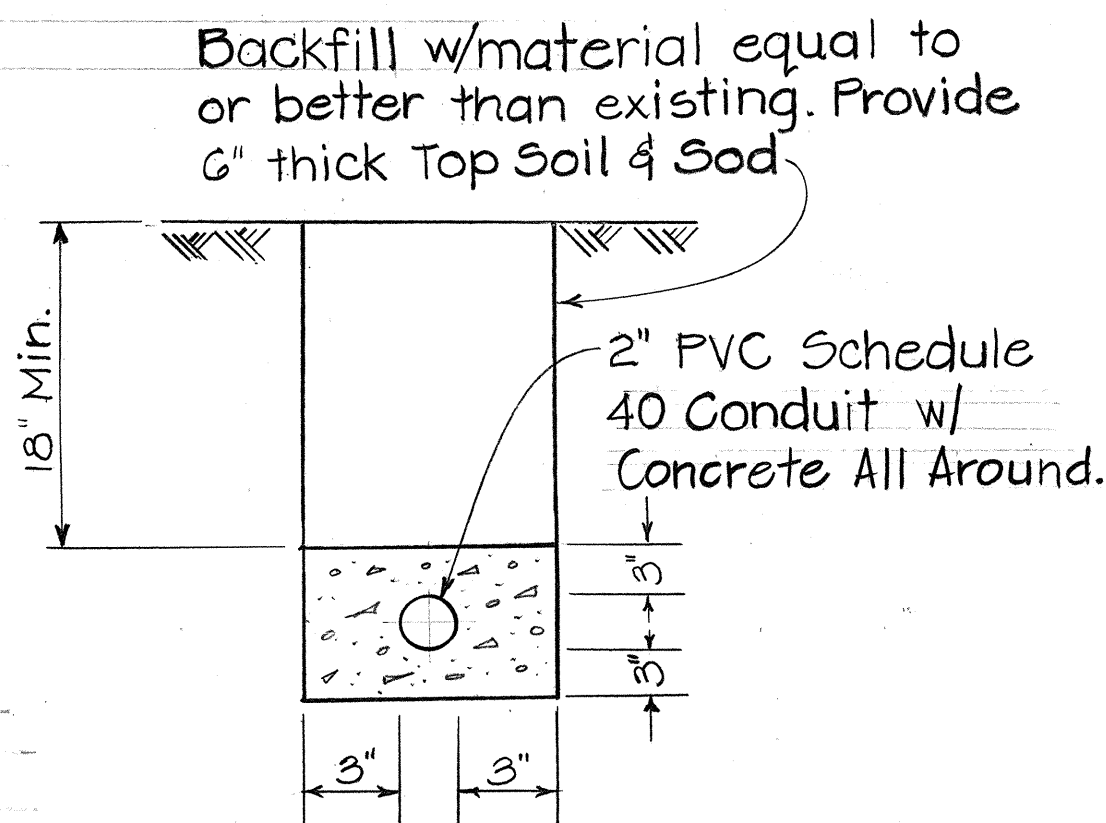
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-030-1(13)	1978	106	174

APPROVED BY:

[Signature]
MAUI ELECTRIC CO. 9/28/78
DATE

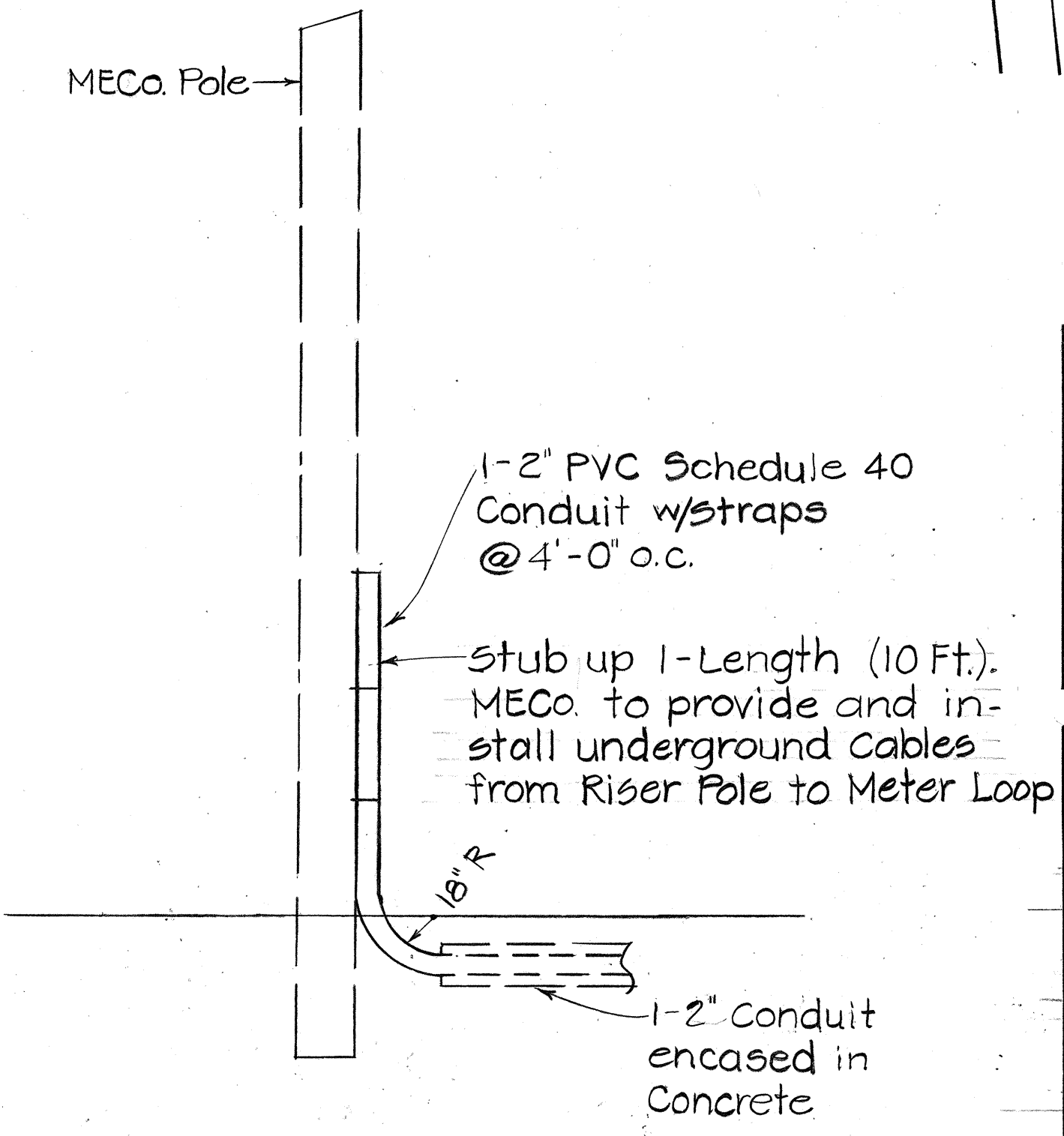


STREET LIGHT WIRING DIAGRAM
AT LOWER HONOAPIILANI ROAD
NOT TO SCALE



CONCRETE ENCASED
DUCTLINE DETAIL
Not to Scale

NEW COND	CABLE
2"	3-1/2" #6
2"	3-1/2" #6
2"	Spare w/Pull Wire

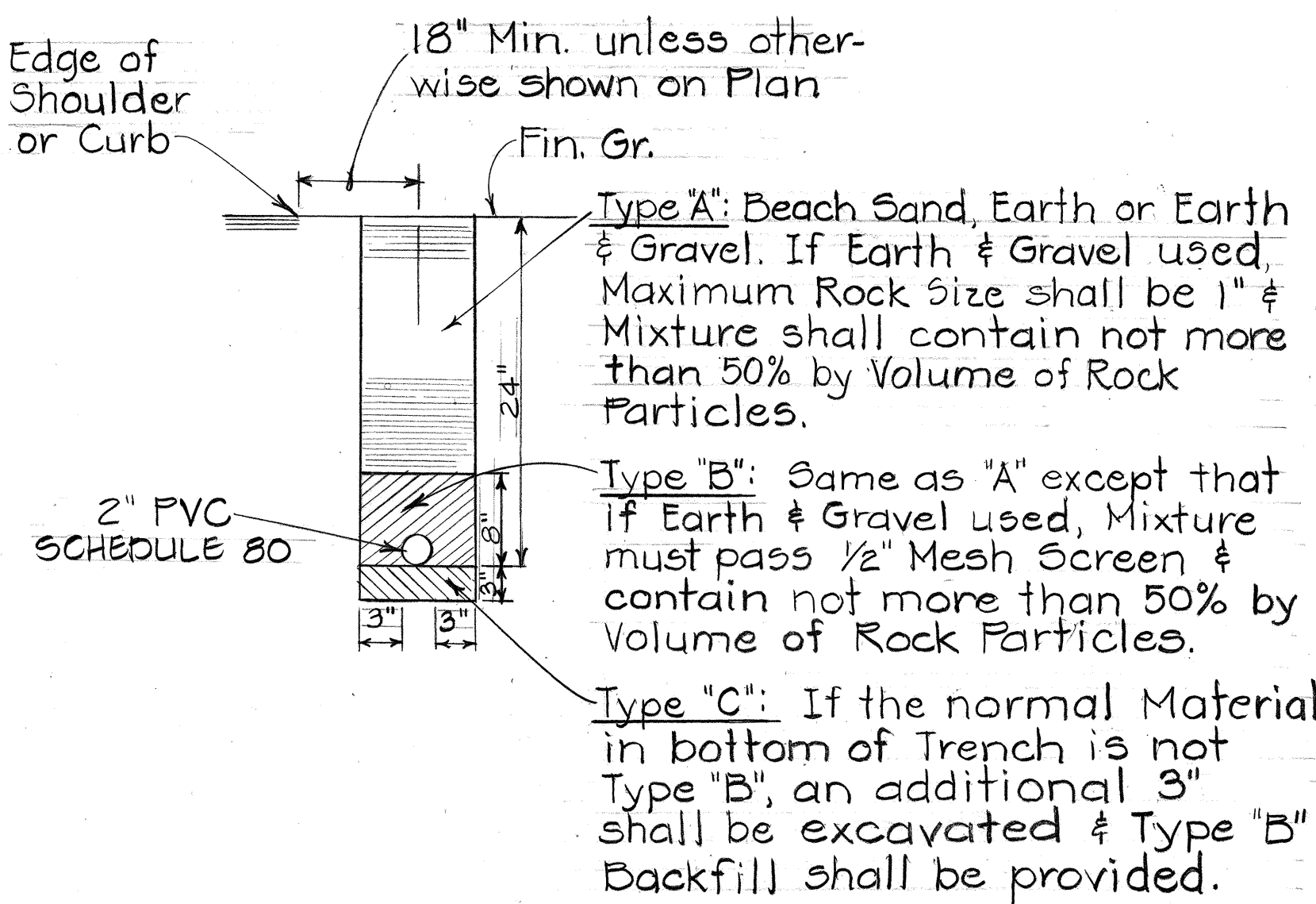
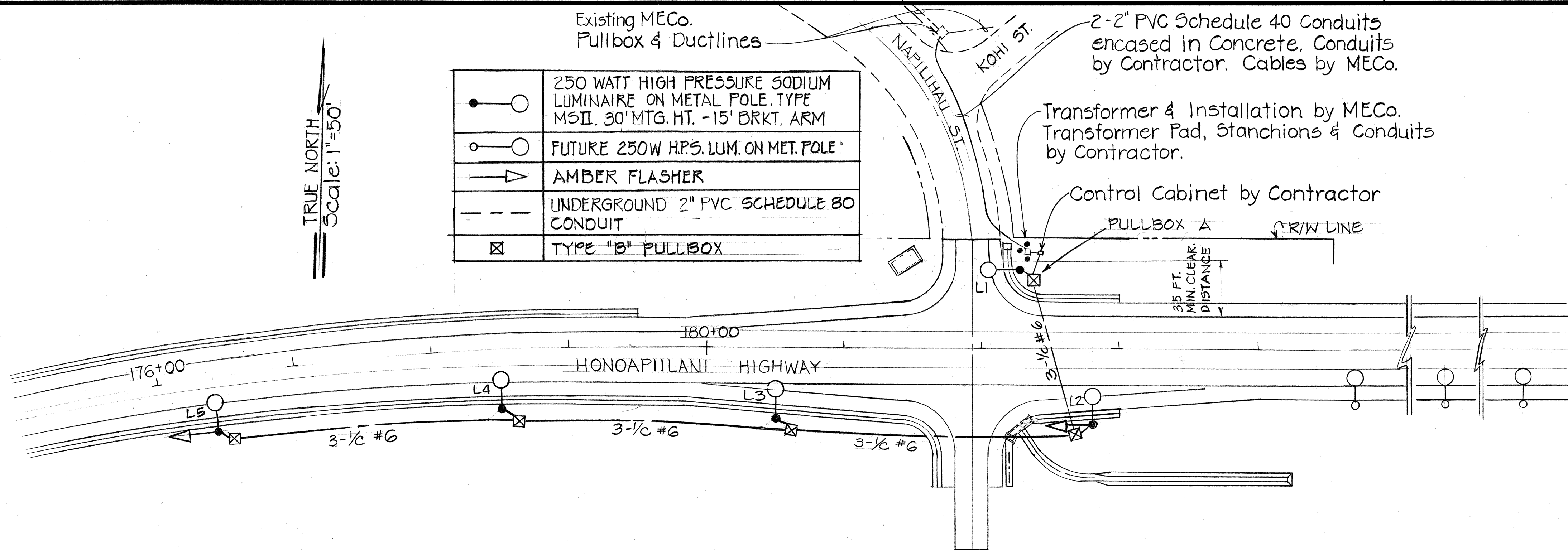


8/24/78	Show power connection & details. Draw conduits to conform to legend.
DATE	REVISION

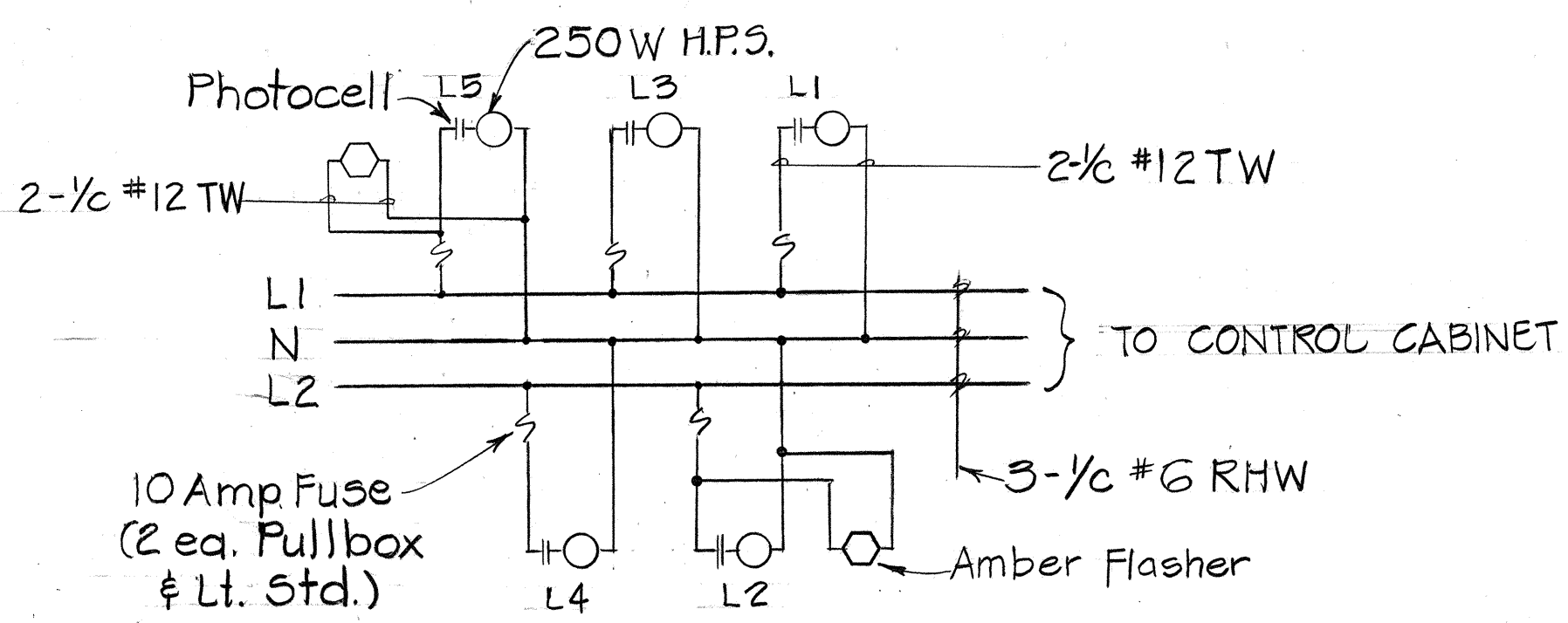
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

HIGHWAY LIGHTING
HONOAPIILANI HIGHWAY
KAHANA TO ALAELOA
F.A. PROJ. NO. F-030-1(13)
SCALE: AS SHOWN FEB. 1978
SHEET NO. 2 OF 5 SHEETS

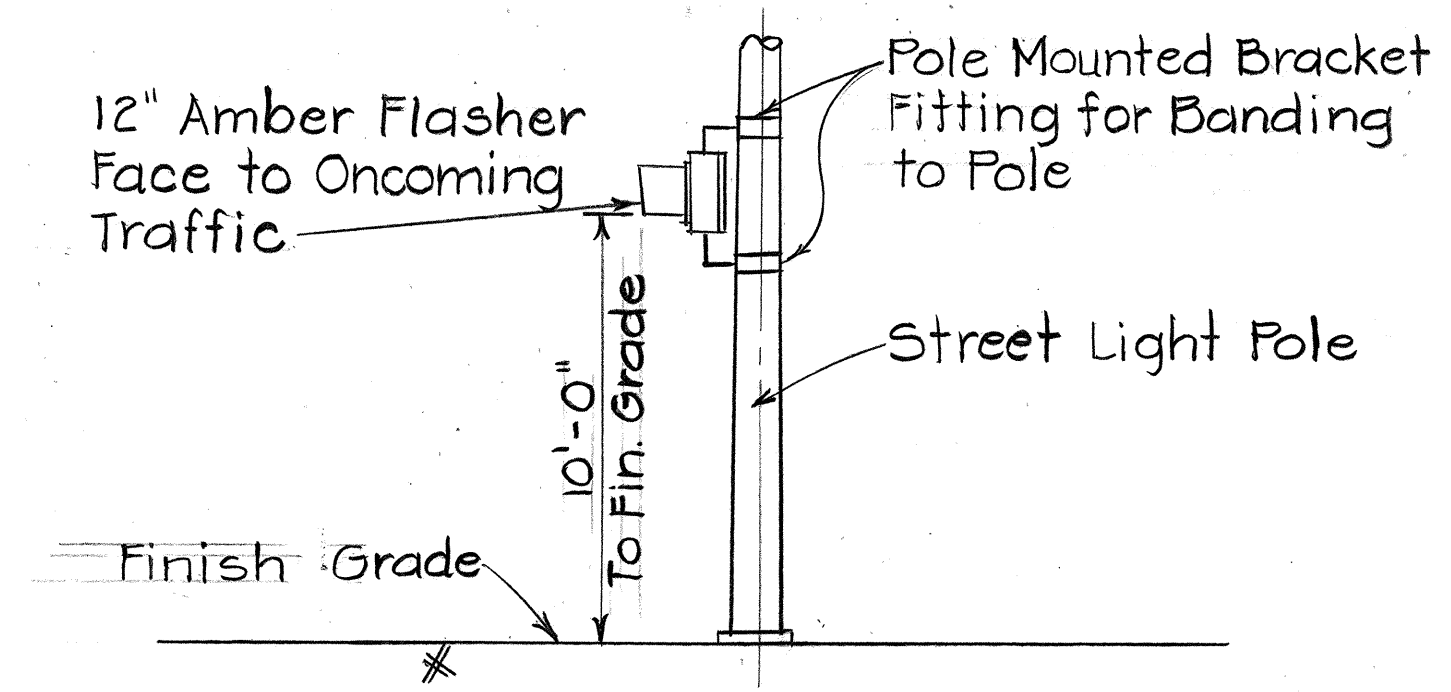
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-030-1(13)	1978	107	174



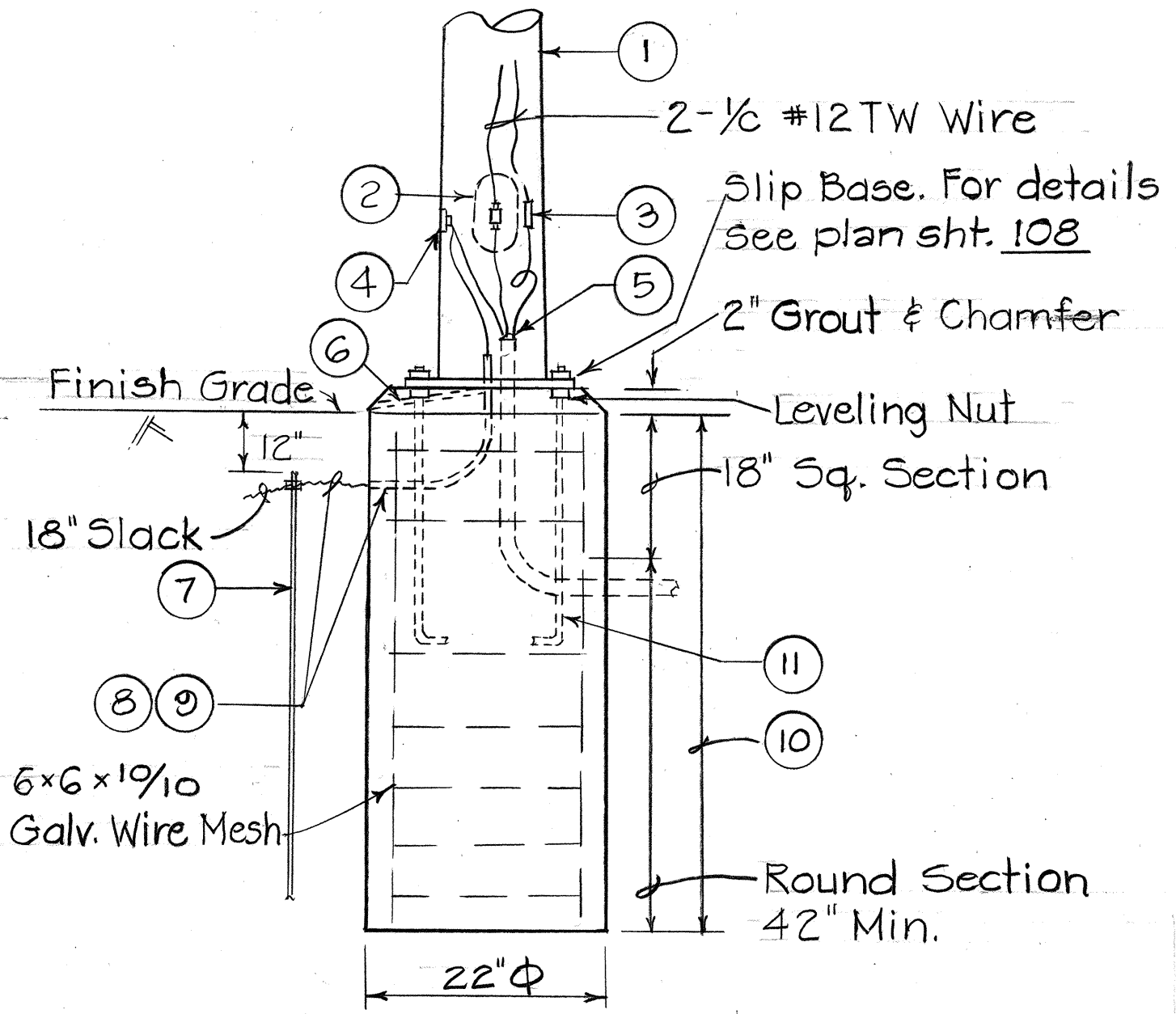
TYPICAL DUCT SECTION
N.T.S.



STREET LIGHT WIRING DIAGRAM
AT NAPIILAHU STREET
N.T.S.

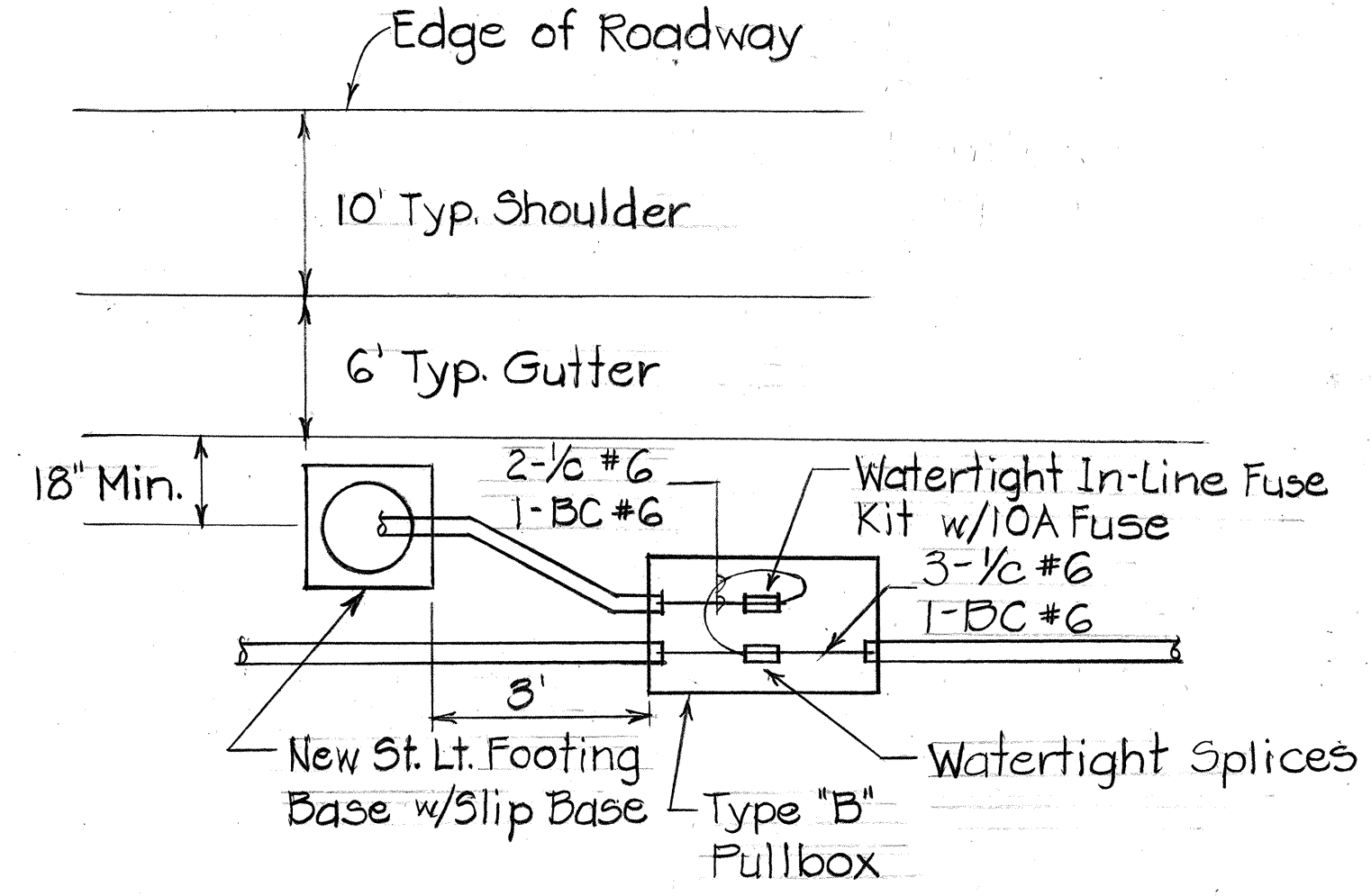


AMBER FLASHER DETAIL
ON HWY. LIGHT. STANDARD
N.T.S.



ELEVATION
HWY. LT. ANCHOR BASE DETAIL
N.T.S.

- MATERIAL LIST:
1. Pole Shaft 30' Luminaire Mounting Height.
 2. Handhole
 3. Watertight In-Line Molded Fuse Connector w/10A Fuse. Split Bolt Connector for Neutral Line.
 4. Grounding Lug
 5. Conduit Duct Seal
 6. 1/2" Ø Weephole
 7. 5/8" Ø x 10' Grd. Rod. Obtain 25~ Resist.
 8. 1/2" Ø Conduit Sleeve
 9. Provide 1 #6 Grd. Wire in addition to CKT Cables & Bond all Ground Rods at Street Lights. (Costs shall be incidental to Highway Lighting Cable).
 10. Concrete Base Depth shall be 5'.
 11. 3-7/8" Ø x 40" L Galv. Anchor Bolt.



PLAN VIEW OF WIRING IN PULLBOX
N.T.S.

8/24/78 Power Source & Distribution System Location shown. Signature by MECo.

DATE REVISION

APPROVED BY:
MAUI ELECTRIC CO.

9/28/78
DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

HIGHWAY LIGHTING DETAIL

HONOAPIILANI HIGHWAY
KAHANA TO ALAELOA

F.A. PROJ. NO. F-030-1(13)

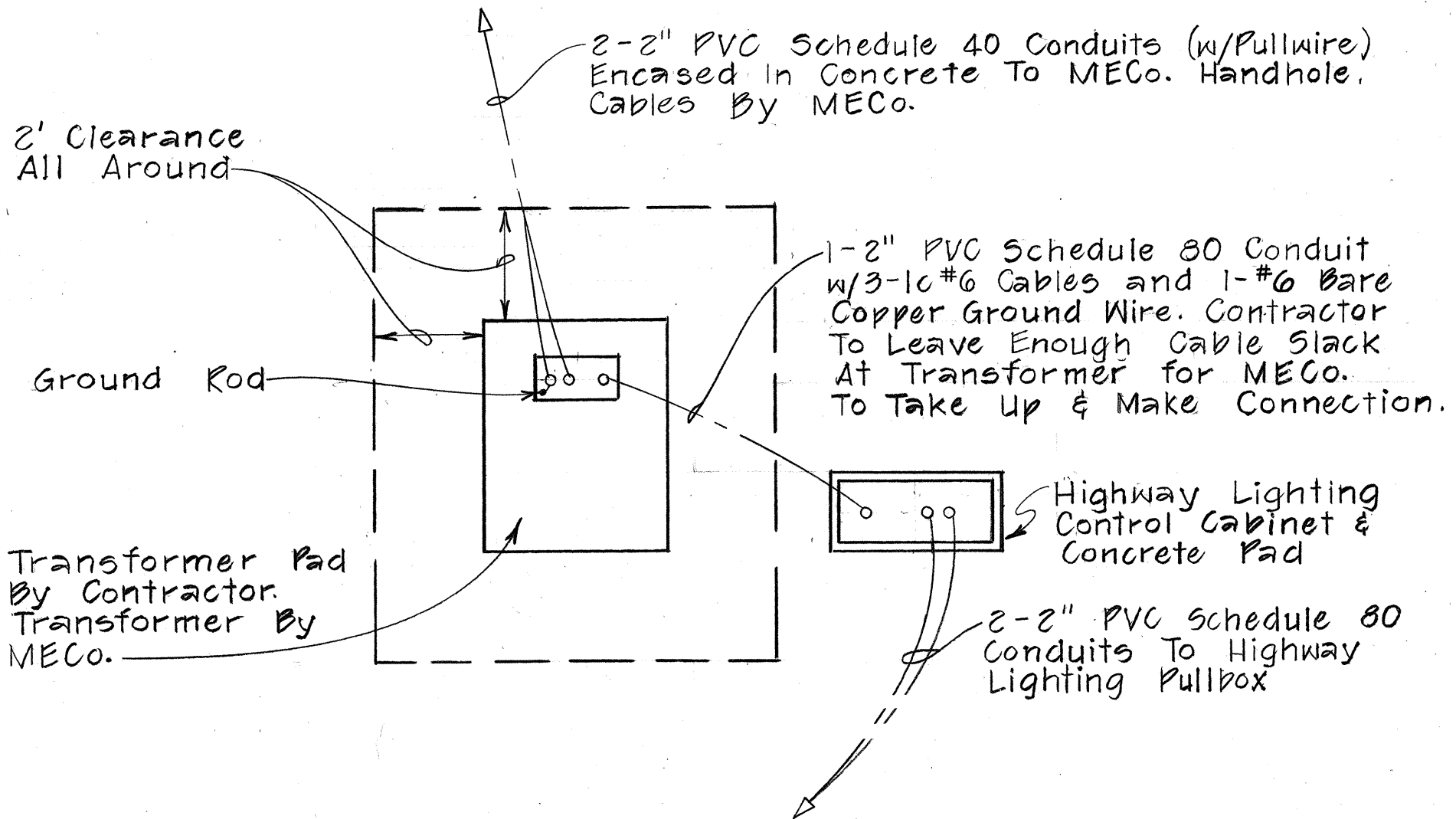
Scale: As Shown Oct. 1977

SHEET NO. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-030-1(13)	1979	CO107 S-1	174

HIGHWAY LIGHTING NOTES:

- For Transformer Pad:
 - Construct on firm undisturbed ground.
 - Top of concrete pad to be smooth, true and level. Other exposed surfaces to be smooth and free from defects.
 - Contractor to confirm with MECo. the location of conduit stubouts and anchor bolts to suit equipment to be furnished and installed by MECo.
 - MECo. shall have 24-hour access to the pad installation without going through locked areas. MECo. shall have a minimum 10-foot wide vehicular access to the pad installation.
- The Contractor shall contact and give MECo. at least 5-working days notice prior to doing any work requiring their services.
- All equipment shall be of the type approved for use by local utility companies.
- Location of existing utility lines are approximate only. The Contractor shall verify location and condition of all utilities to be affected.
- For conduits carrying MECo. cables, minimum radius bends shall be 20'-0" unless noted otherwise on plans.

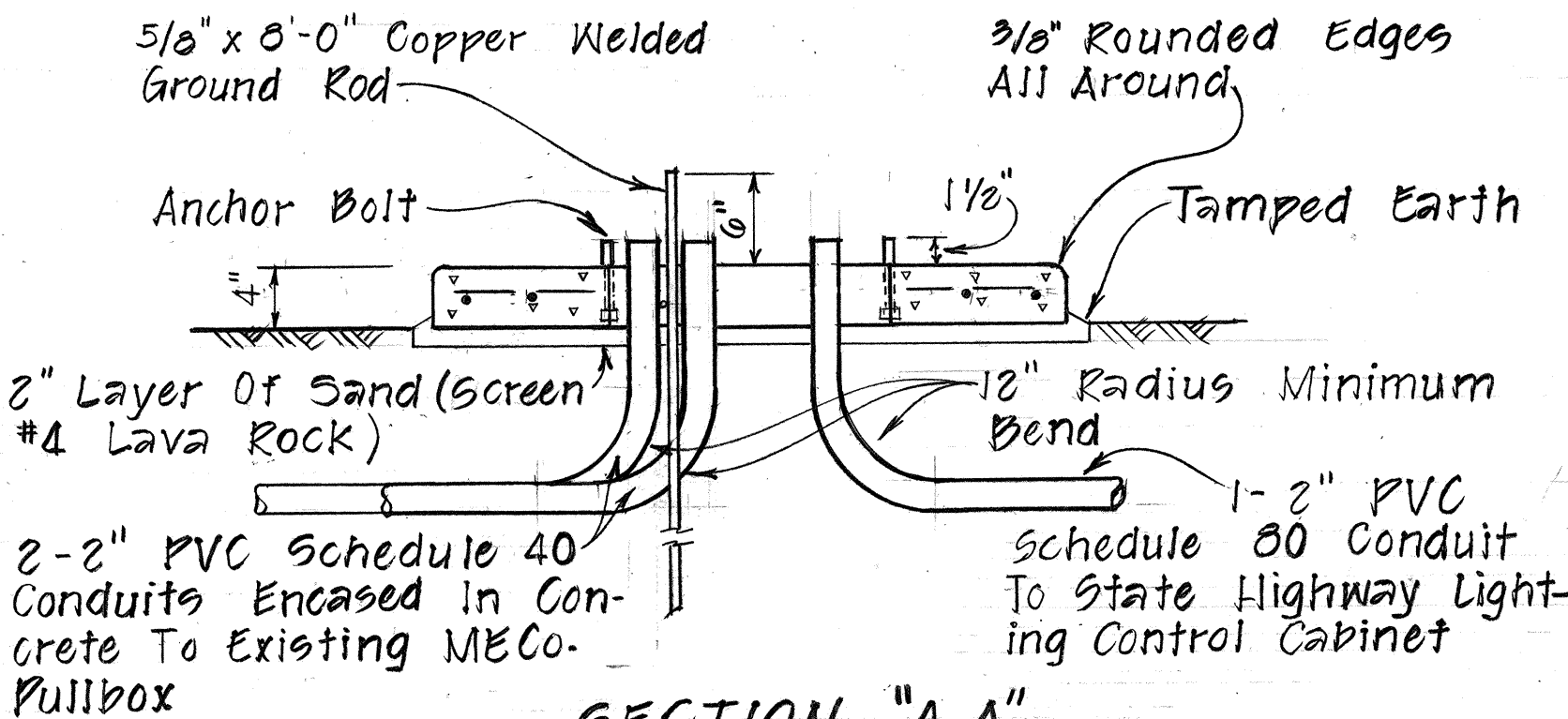


TRANSFORMER PAD & CONTROL CABINET LAYOUT PAD

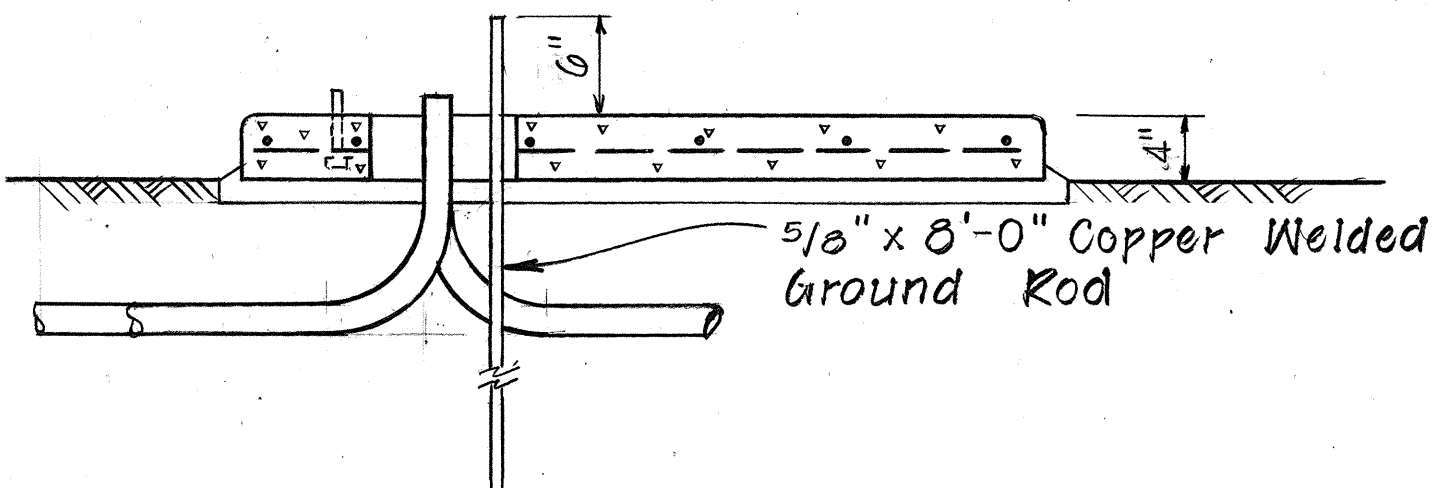
Scale: 3/8"=1'-0"

APPROVED BY:
 MAUI ELECTRIC CO.
 9/28/78
 DATE

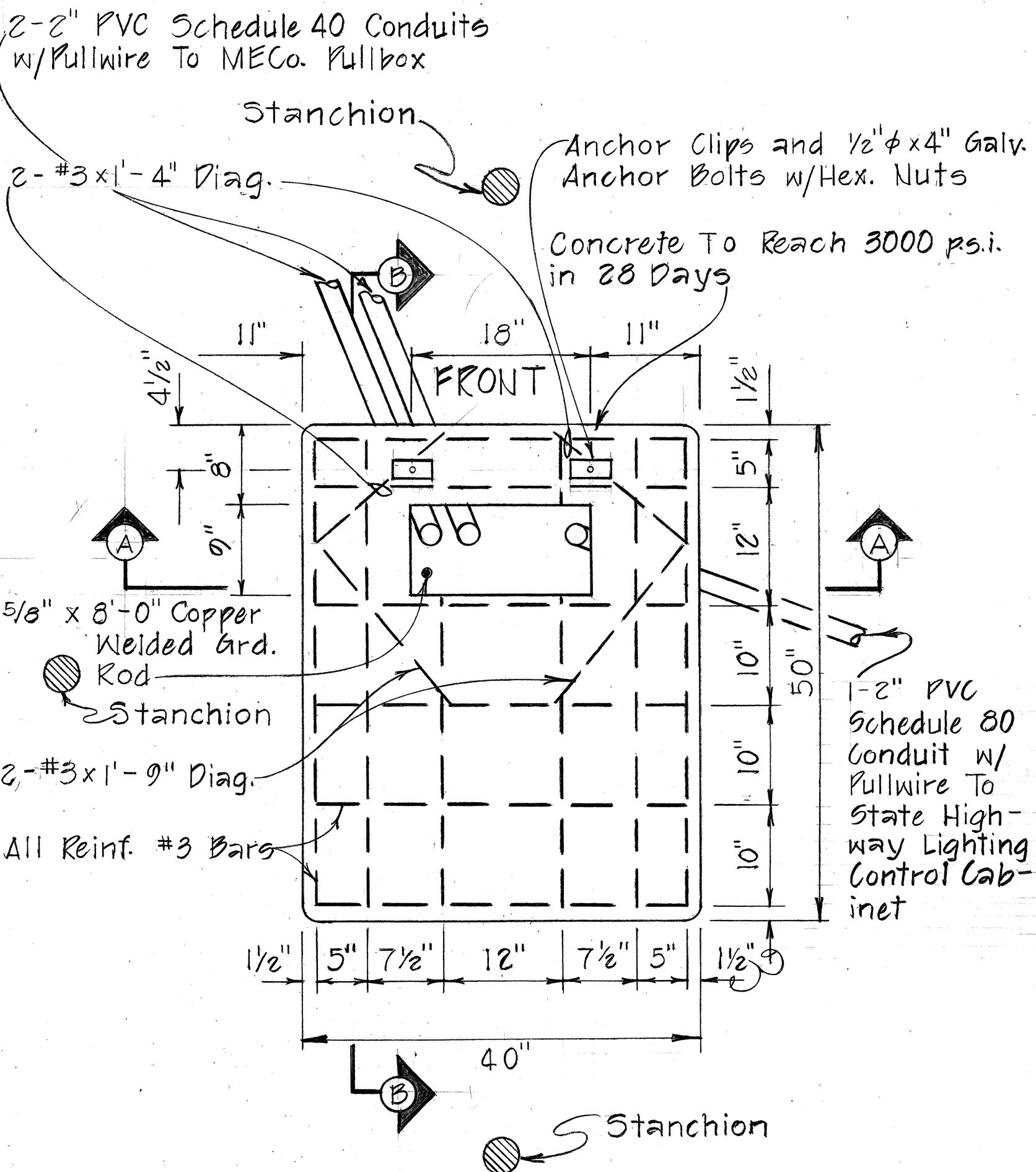
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
MISCELLANEOUS HIGHWAY LIGHTING DETAILS
HONOAPIILANI HIGHWAY
KAHANA TO ALAELOA
F.A. PROJECT NO. F-030-1(13)
Scale: As Shown Date: August 1978
SHEET NO. OF SHEETS



SECTION "A-A"



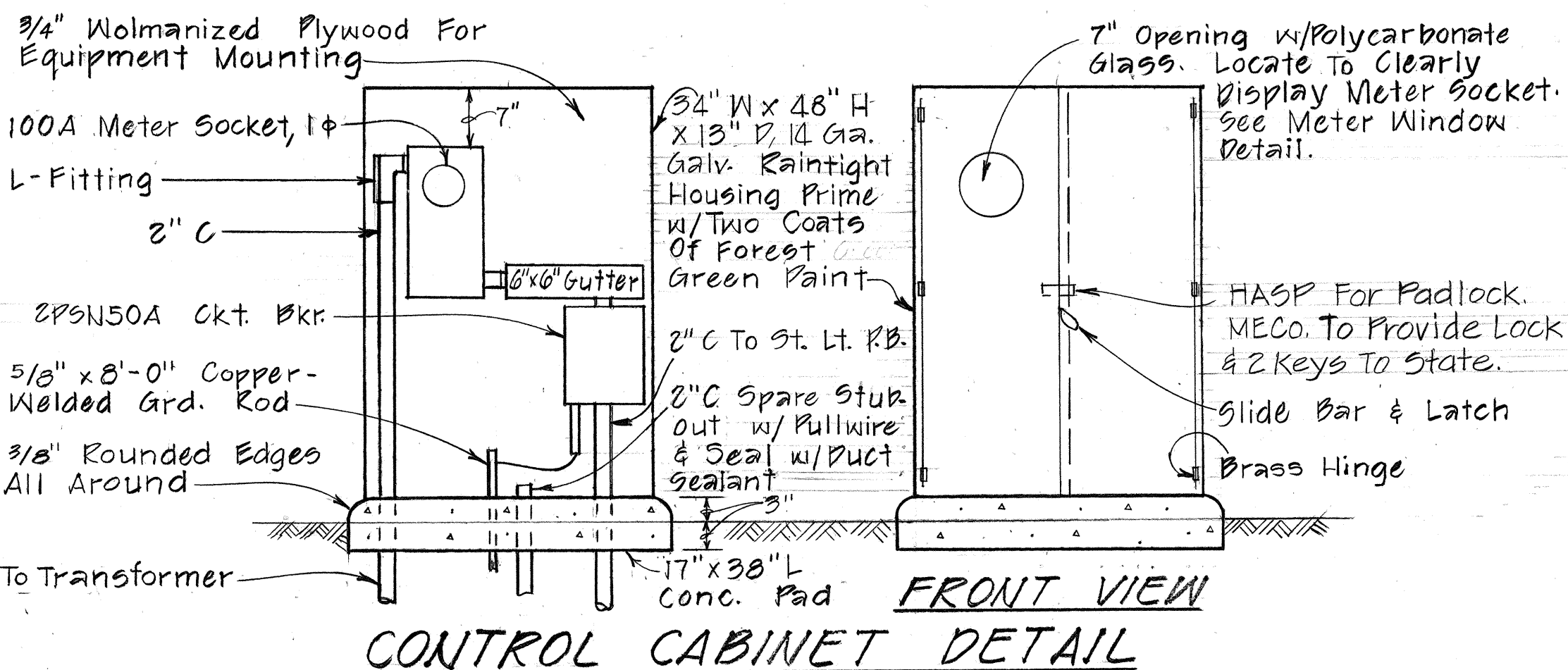
SECTION "B-B"



PLAN VIEW

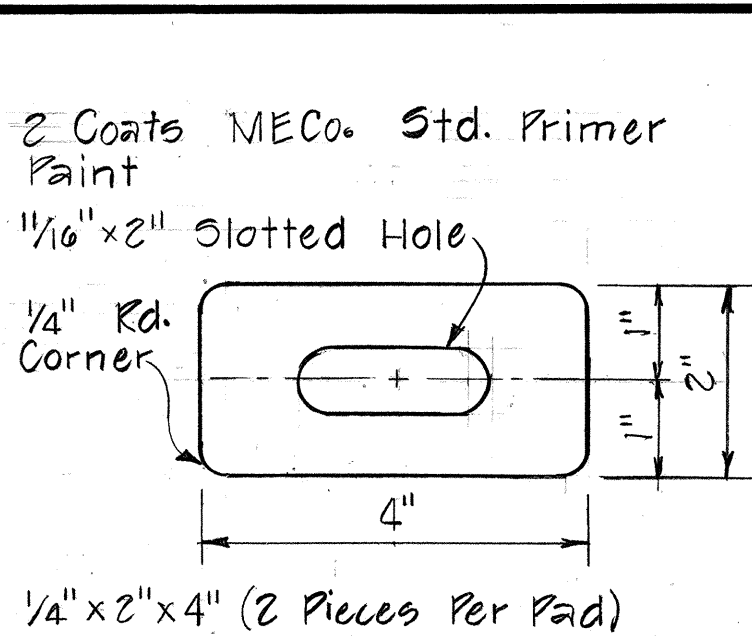
CONCRETE PAD FOR MECo. TRANSFORMER

Not to Scale



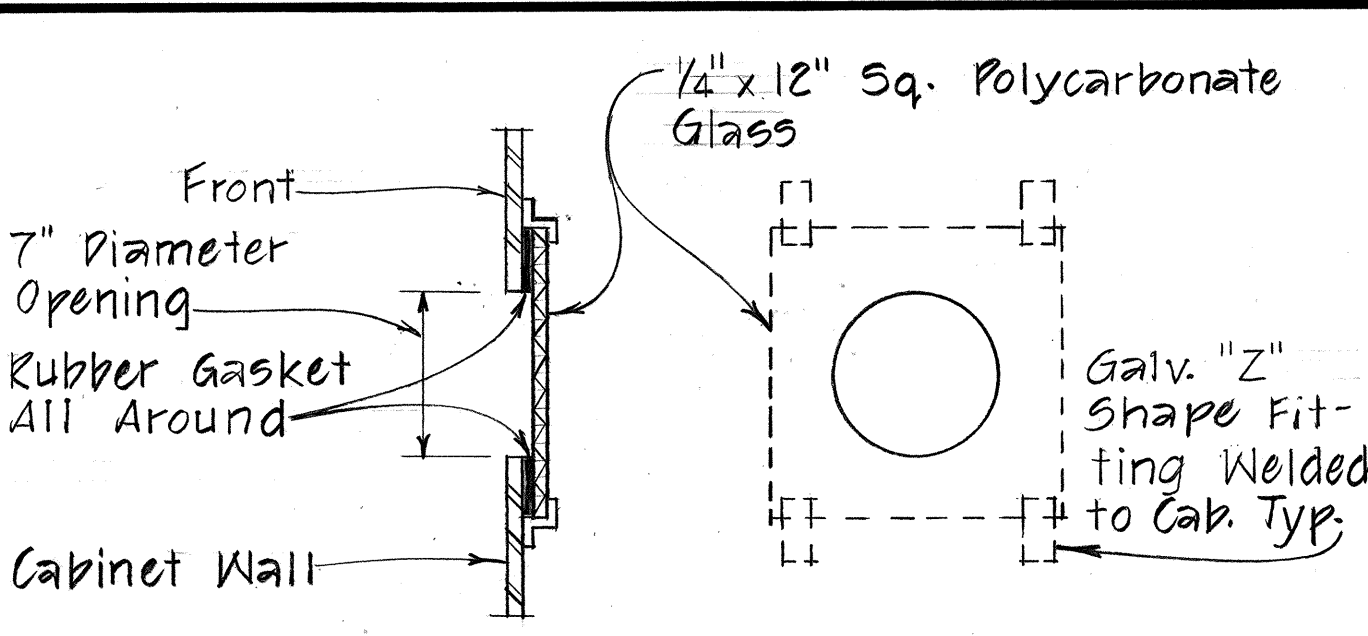
CONTROL CABINET DETAIL

Not to Scale



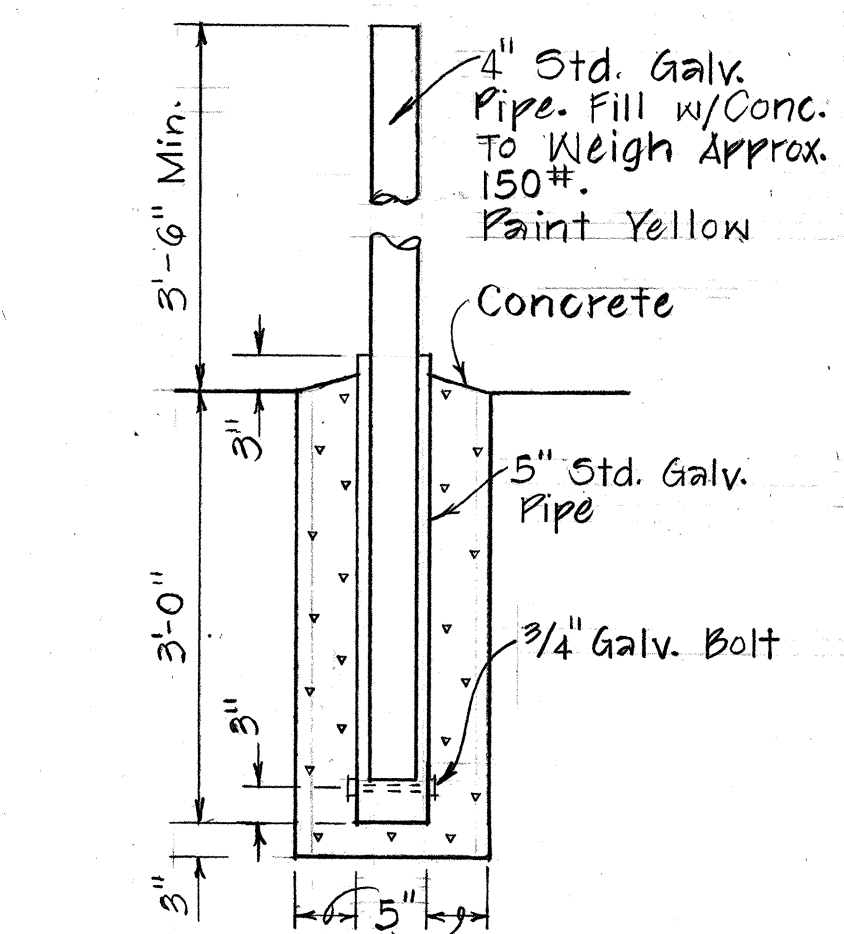
ANCHOR CLIP

Not to Scale



SIDE VIEW FRONT METER WINDOW DETAIL

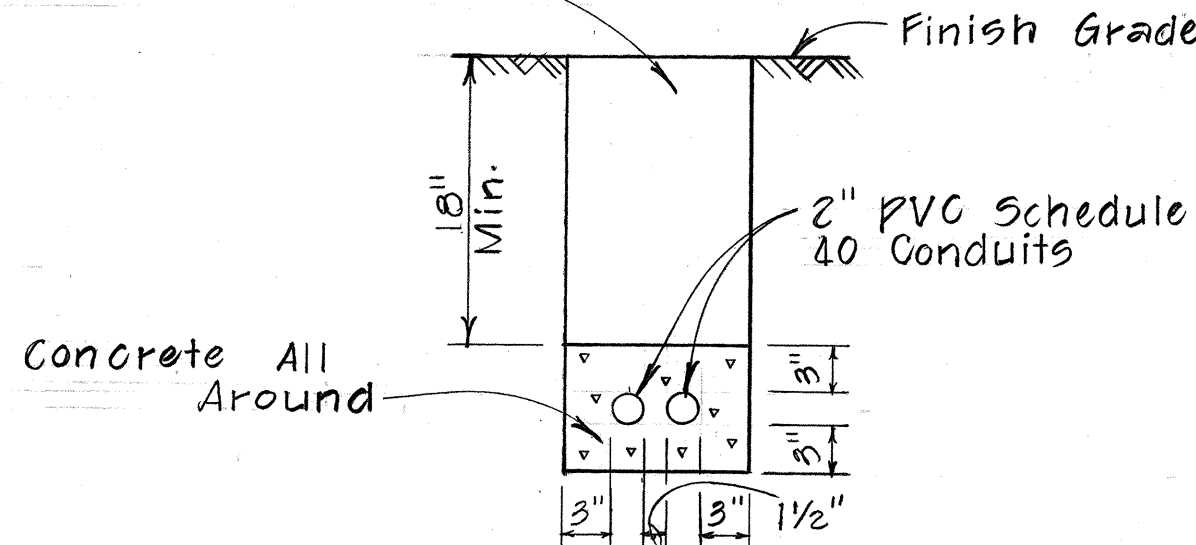
Not to Scale



STANCHION DETAIL

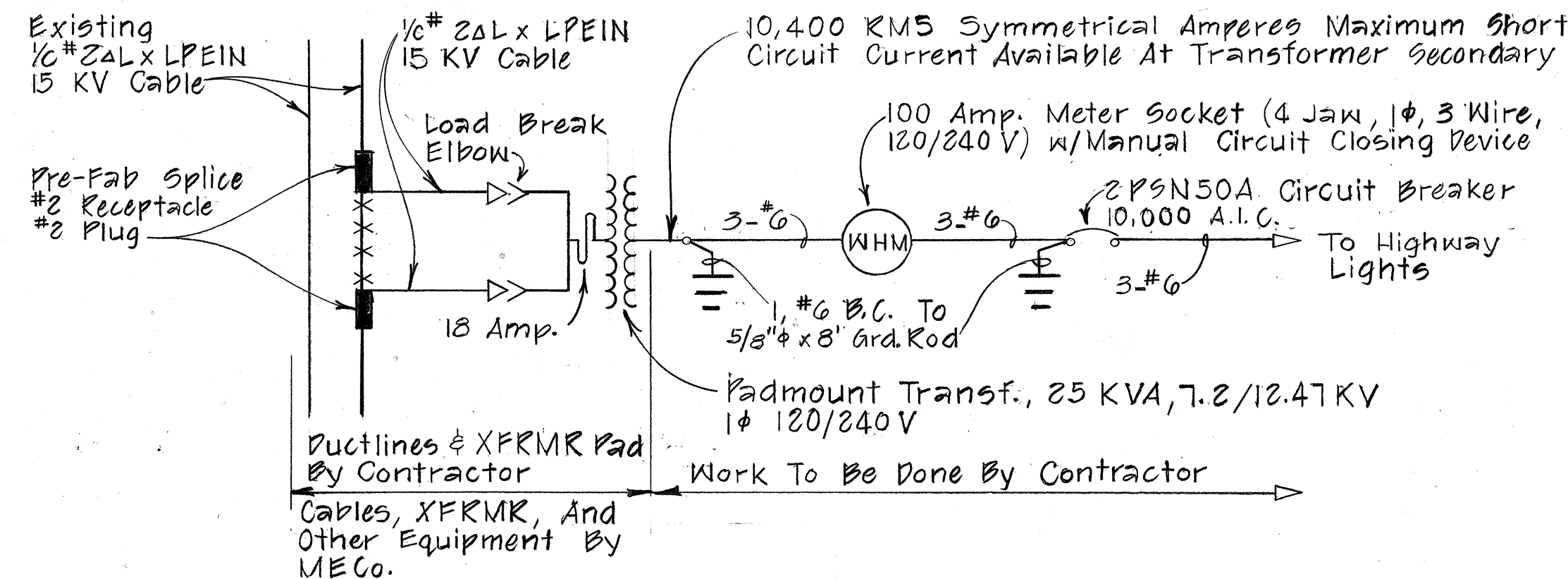
Not to Scale

If Grassed Area, Provide 6" Thick Top Soil & Sod
If Paved Area, Reconstruct Pavement Equal to, or Better Than Existing, Topping With 2" Asphalt Concrete Mix V, Hot Mix.
If sidewalk Area, Reconstruct Equal To Or Better Than Existing



CONCRETE ENCASED DUCTLINE DETAIL

Not to Scale



SERVICE CONNECTION ONE-LINE DIAGRAM

Not to Scale

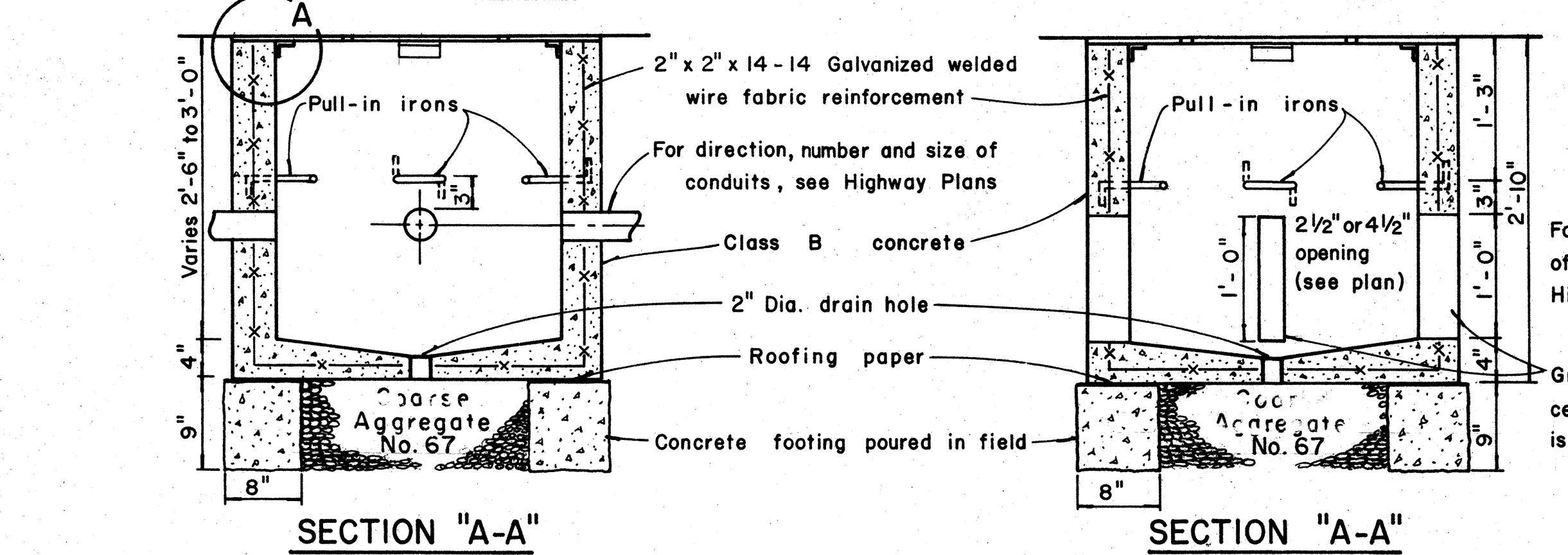
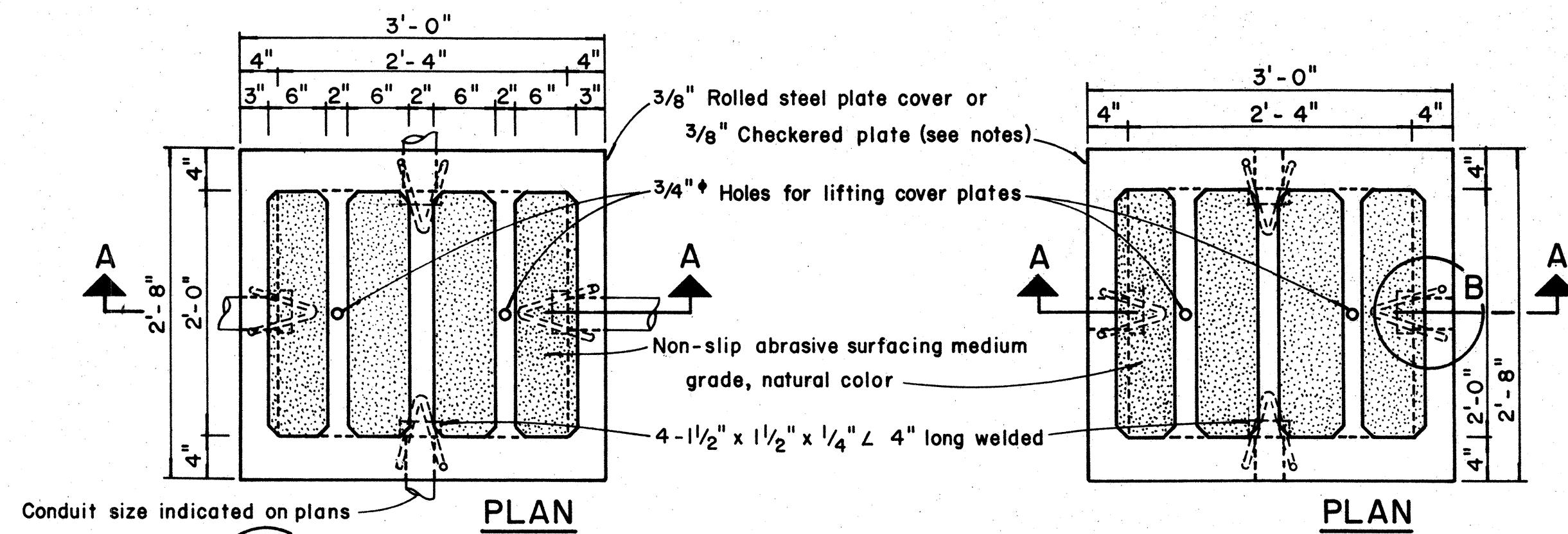
DATE	DESIGNED BY	CHECKED BY
PLAN	TRACED BY	NOTE BOOK
ORIGINAL	QUANTITIES BY	No.

NOTES

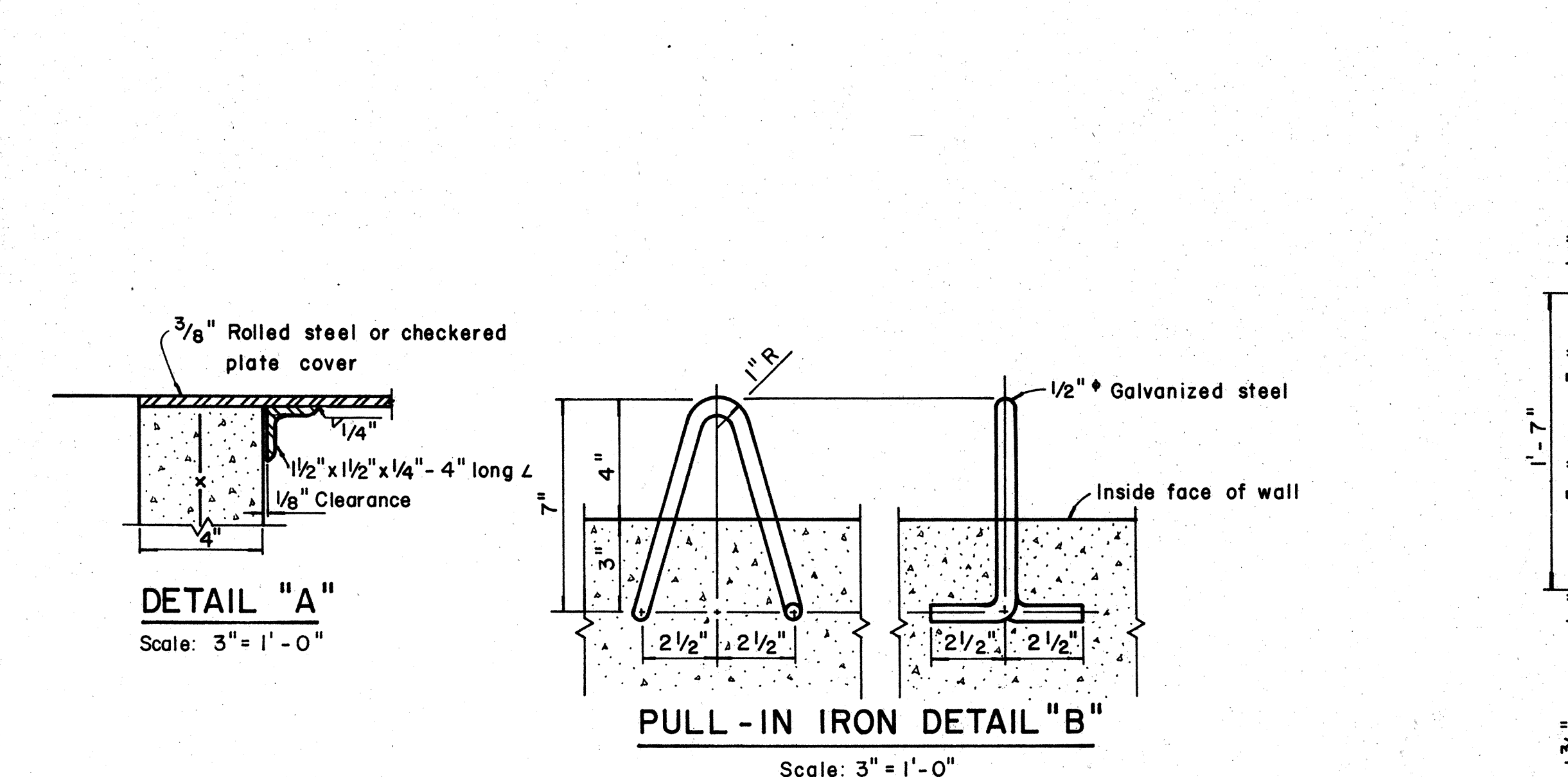
- STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
- HIGHWAY LIGHTING
SLIP BASE POLE
- HONOAPIILANI HIGHWAY
KAHANA TO ALAELOA
F.A. PROJ. NO. F-030-1(13)
Scale: As Shown Dec. 1977
- SHEET No. 4 OF 5 SHEETS



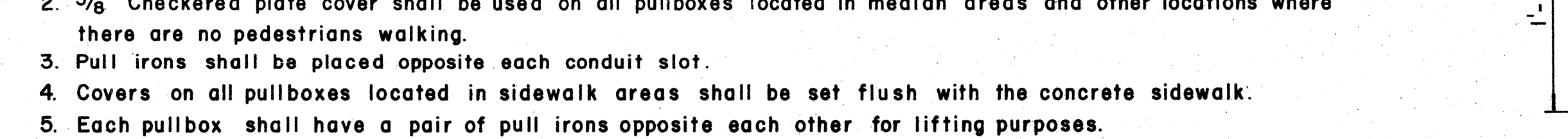
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-030-1(13)	1976	109	174



TYPE "A" PULLBOX CAST-IN-PLACE
Scale: 1" = 1'-0"



TYPE "A" PULLBOX PRECAST
Scale: 1" = 1'-0"



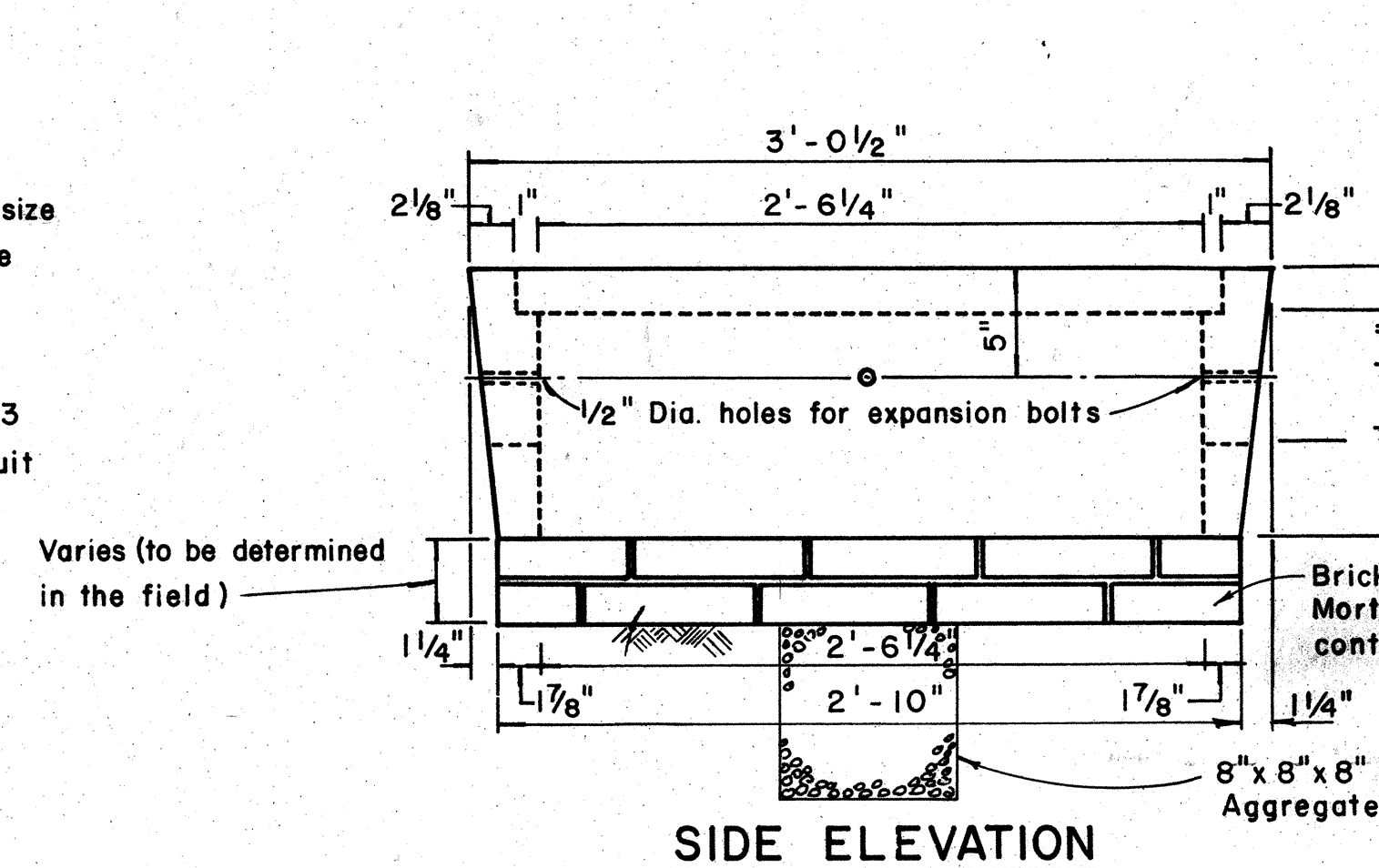
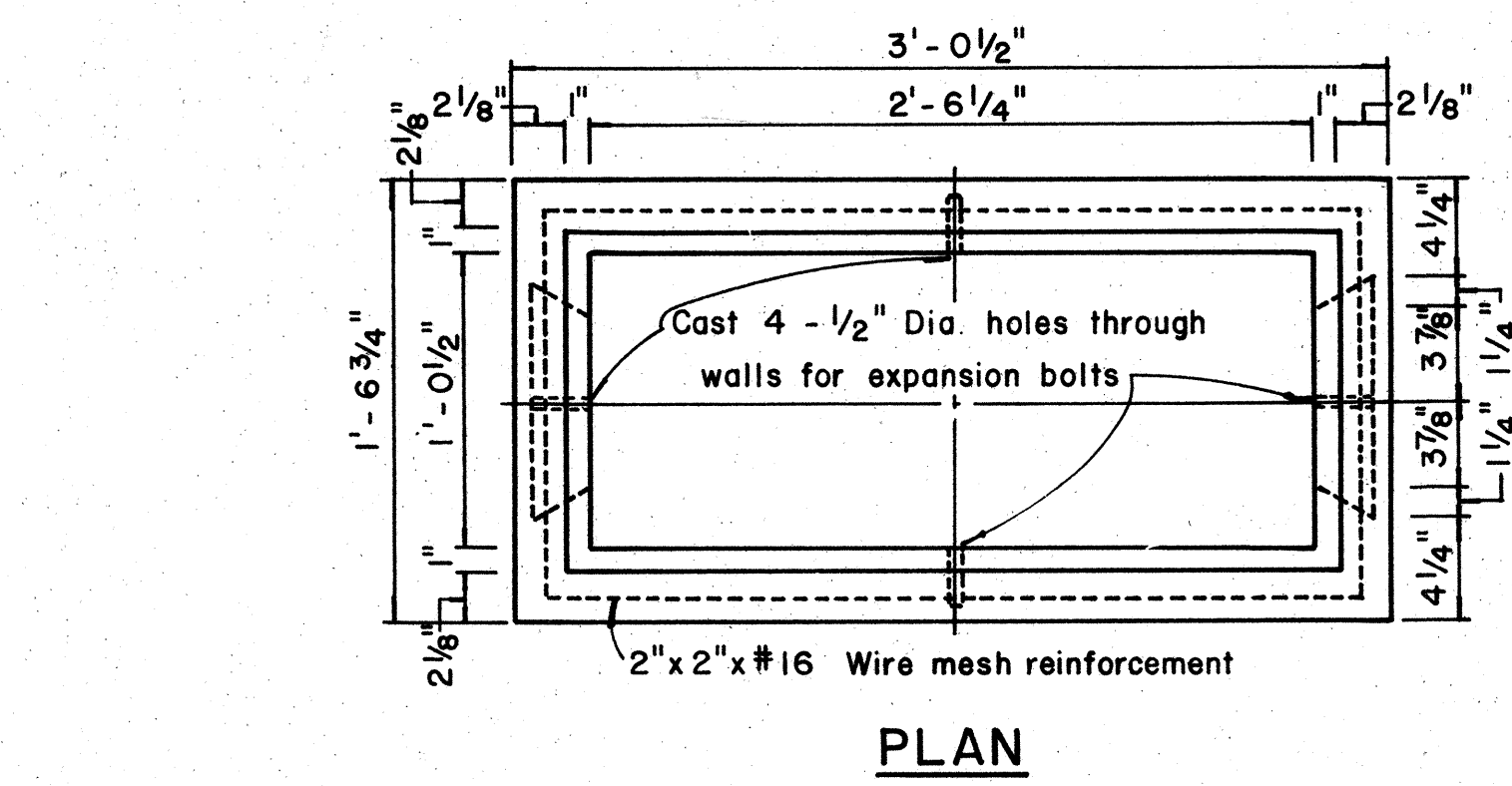
DETAIL "A"
Scale: 3" = 1'-0"



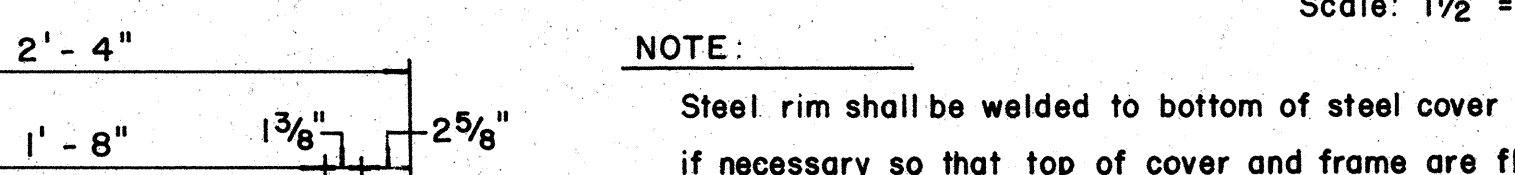
PULL-IN IRON DETAIL "B"
Scale: 3" = 1'-0"

NOTES: (FOR TYPE "A" PULLBOX)

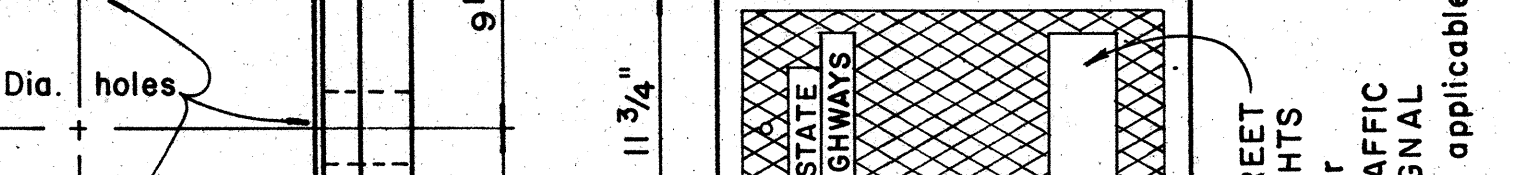
- 3/8" Rolled steel plate cover with non-slip abrasive surfacing medium grade, natural color shall be used on all pullboxes located on sidewalk areas where pedestrians are walking.
- 3/8" Checkered plate cover shall be used on all pullboxes located in median areas and other locations where there are 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.



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



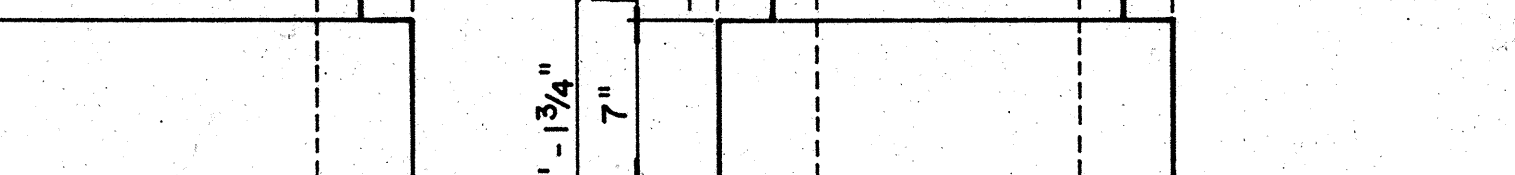
END ELEVATION



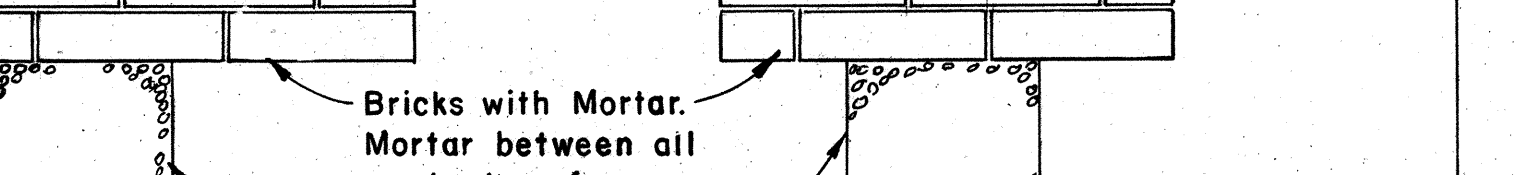
PLAN



PLAN OF COVER



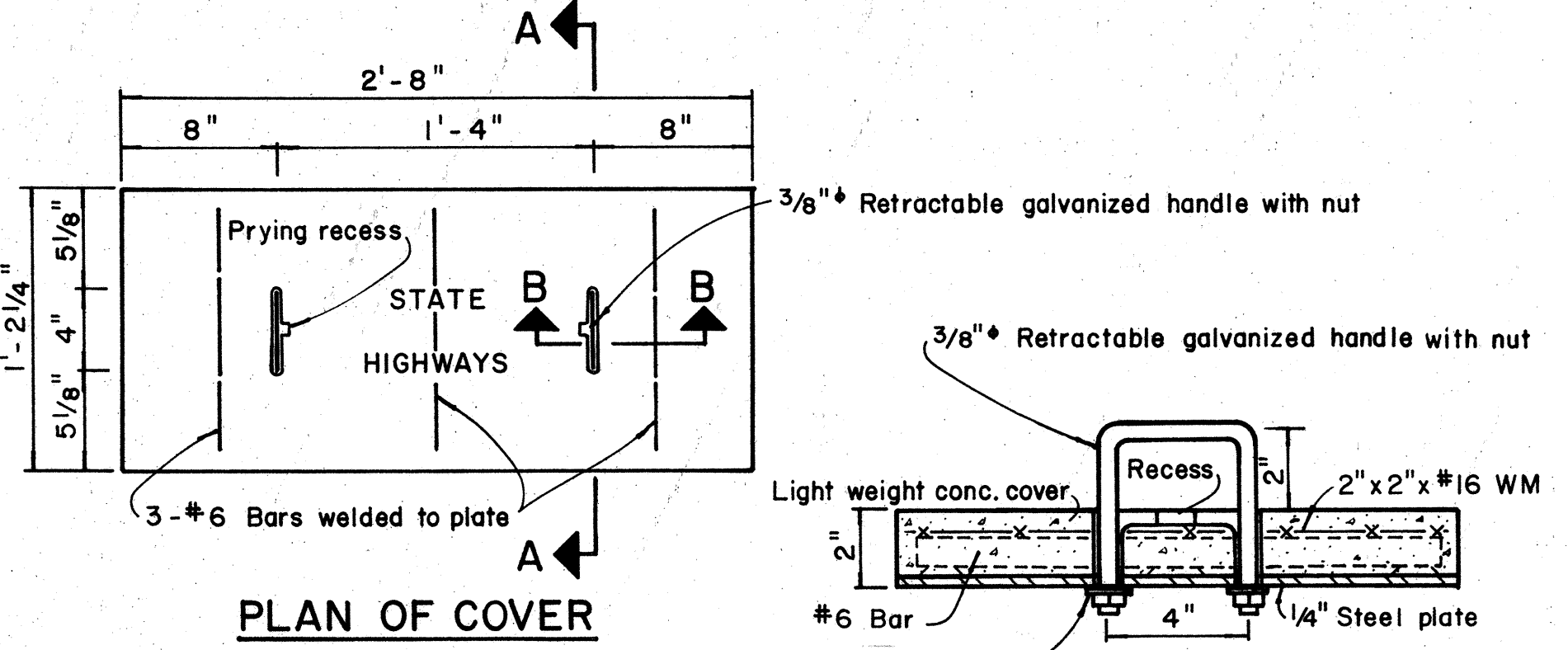
SIDE ELEVATION



END ELEVATION

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

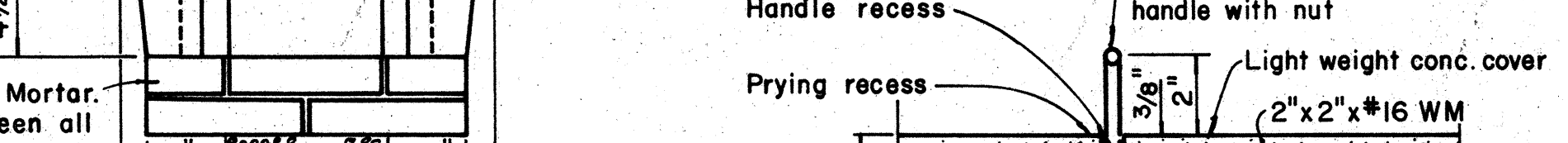
NOTE:
Steel rim shall be welded to bottom of steel cover if necessary so that top of cover and frame are flush.



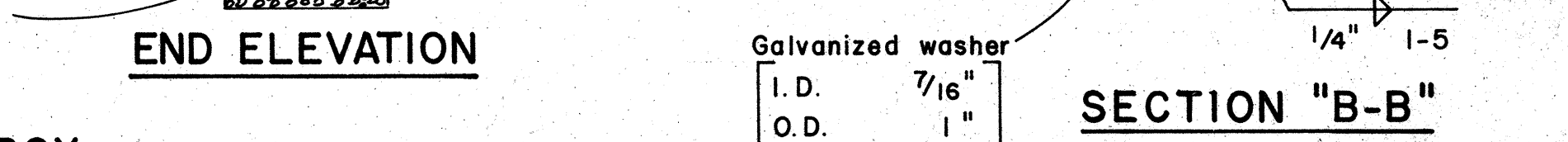
PLAN OF COVER



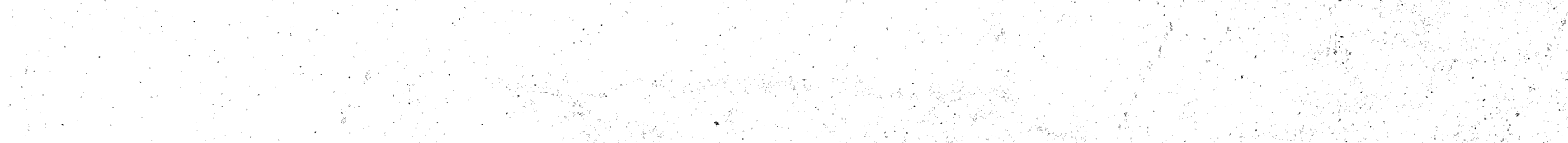
SECTION "A-A"
Scale: 3" = 1'-0"



SECTION "B-B"
Scale: 3" = 1'-0"



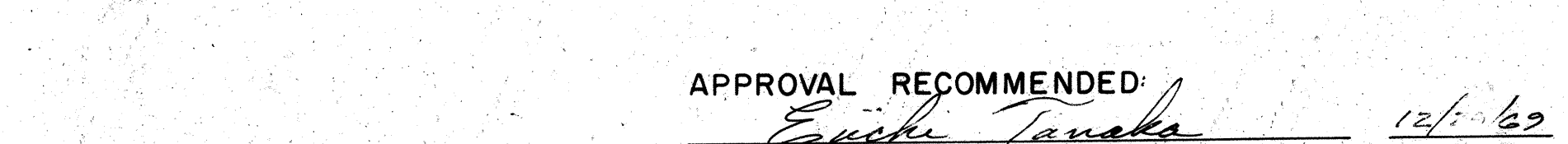
SECTION "C-C"
Scale: 3" = 1'-0"



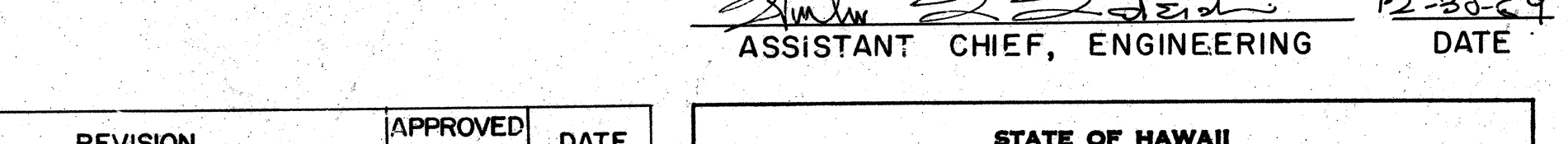
SECTION "D-D"
Scale: 3" = 1'-0"



SECTION "E-E"
Scale: 3" = 1'-0"



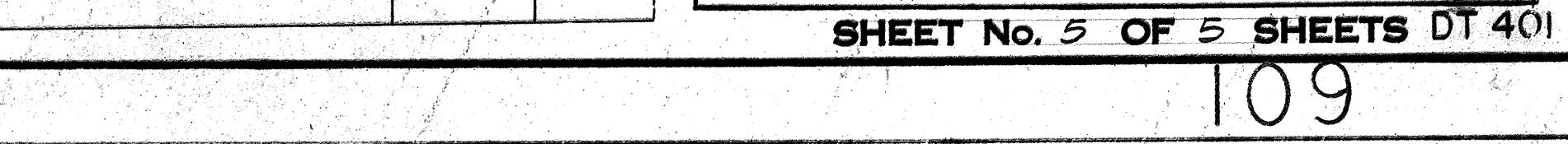
SECTION "F-F"
Scale: 3" = 1'-0"



SECTION "G-G"
Scale: 3" = 1'-0"



SECTION "H-H"
Scale: 3" = 1'-0"



SECTION "I-I"
Scale: 3" = 1'-0"

APPROVAL RECOMMENDED:
Eiichi Tanaka
TRAFFIC ENGINEER
DATE: 12/1/69

APPROVED:
Wm. J. J. J.
ASSISTANT CHIEF, ENGINEERING
DATE: 12-20-69

NO.	REVISION	APPROVED BY	DATE
1	Revised Type B & C Pullbox details	H.T.	8-5-76

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
STANDARD DETAILS
PULLBOXES
Scale as noted
Date