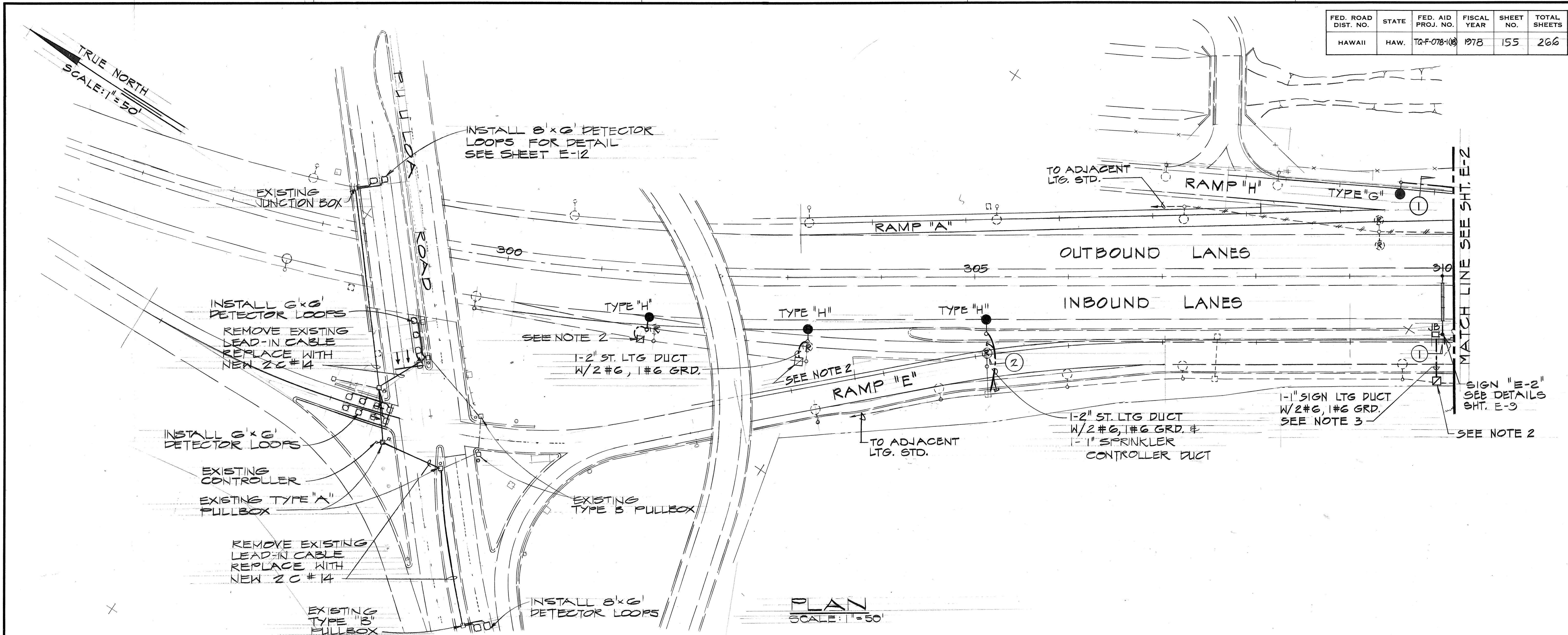


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(18)	1978	155	266



ELECTRICAL		LEGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—○—	EXTG. ST. LTG. STD.	—□—	STUB-OUT CAP & MARK 3' FROM CURB OR PULLBOX UNLESS NOTED OTHERWISE.
—(B)—	EXTG. ST. LTG. STD. TO BE REMOVED UNLESS NOTED OTHERWISE.	⌈	PAD MOUNTED TRANSFORMER
4P—○—	EXTG. ST. LT. ON JOINT UTILITY POLE	⊠	TRAFFIC COUNTER
○UP	EXTG. UTILITY WOOD POLE	□	TRAFFIC SIGNAL PULLBOX - 10" x 28" PRECAST CONCRETE, D.O.T. STD. TYPE "B".
—●—	400 WATT HIGH PRESSURE SODIUM LUMINAIRE 1ES TYPE M-S-IV	■	ST. LT. CONTROL CABINET.
—○—	250 WATT HIGH PRESSURE SODIUM LUMINAIRE 1ES TYPE M-S-II	⊞	ST. LTG. PULLBOX - 10" x 28" PRECAST CONCRETE, D.O.T. STD. TYPE "B".
—●—	150 WATT HIGH PRESSURE SODIUM LUMINAIRE 1ES TYPE M-S-II	□	EXTG. PULLBOX, TYPE AS INDICATED.
---	UNDERGROUND DUCT SYSTEM	⊞	SPRINKLER CONTROLLER
---	EXTG. UNDERGROUND ST. LTG. SYSTEM UNLESS NOTED OTHERWISE.	⊞	SPRINKLER SYSTEM PULLBOX - 10" x 28" PRECAST CONCRETE, D.O.T. STD. TYPE "B".
—#—	EXTG. ST. LTG. SYSTEM TO BE REMOVED OR ABANDONED AS REQ'D. SEE NOTE 1.	JB	JUNCTION BOX
—OH—	EXTG. OVERHEAD LINES, TYPE AS INDICATED.	(A) (E-3)	DETAIL INDICATOR TOP HALF DET. ASSIGNMENT BOT. HALF SHT. ASSIGNMENT
		(2)	DUCT SECTION INDICATOR. NUMBER IS DETAIL ASSIGNMENT.

- NOTES:
- REMOVE AND HAUL SALVABLE MATERIAL TO STATE'S PEARL CITY BASEYARD, OR ABANDON EXTG. ST. LTG. DUCTS, CABLES AND OTHER EQUIPMENT AS REQ'D.
 - PLACE ST. LTG. PULLBOX OVER EXIST. ST. LTG. DUCT LINE AND SPLICE INTO EXTG. SYSTEM AS REQ'D. DIRECTED BY THE ENGINEER.
 - SAW-CUT & REPAIR EXT'G PAVEMENT AS REQ'D TO INSTALL DUCT LINE. PROVIDE CONCRETE JACKETING AT ROAD CROSSING.
 - EXISTING TRAFFIC POST & PHASING TO REMAIN
 - EXISTING TRAFFIC SIGNAL LENS TO BE REPLACED BY OTHERS.
 - EXISTING SERIES LIGHTING TO BE MAINTAINED UNTIL NEW LIGHTING SYSTEM IS INSTALLED AND OPERATING.

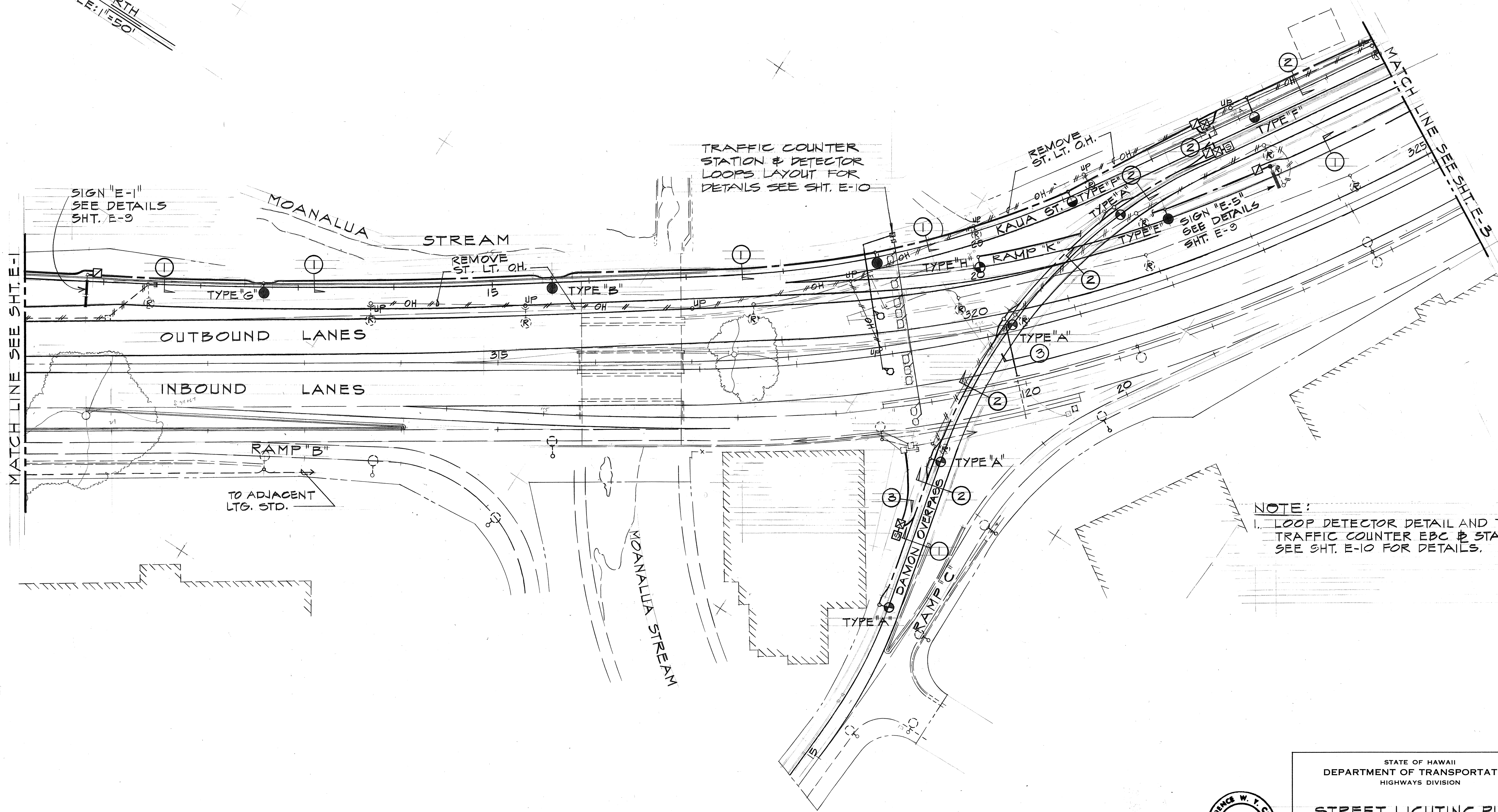
3/6/79	ADDED 3 TYPE "H" ST. LTG. STDs. & BASE.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
STREET LIGHTING PLAN	
MOANALUA ROAD PUULOA I.C. TO MIDDLE ST. - UNIT 3A F.A. Proj. No. TQ-F-078-1 (18)	
SCALE: AS SHOWN DATE: NOV. 15, 1978	
SHEET No. E-1 OF 12 SHEETS	



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OR UNDER MY SUPERVISION.

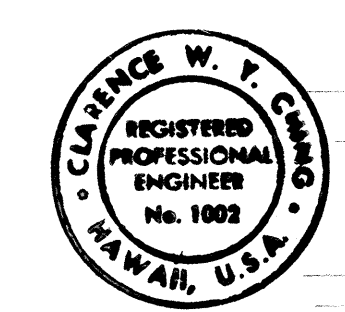
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(18)	1978	156	266

TRUE NORTH
SCALE: 1"=50'



NOTE:
1. LOOP DETECTOR DETAIL AND TYP. TRAFFIC COUNTER EDC @ STA. 18+85. SEE SHT. E-10 FOR DETAILS.

PLAN
SCALE: 1"=50'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STREET LIGHTING PLAN

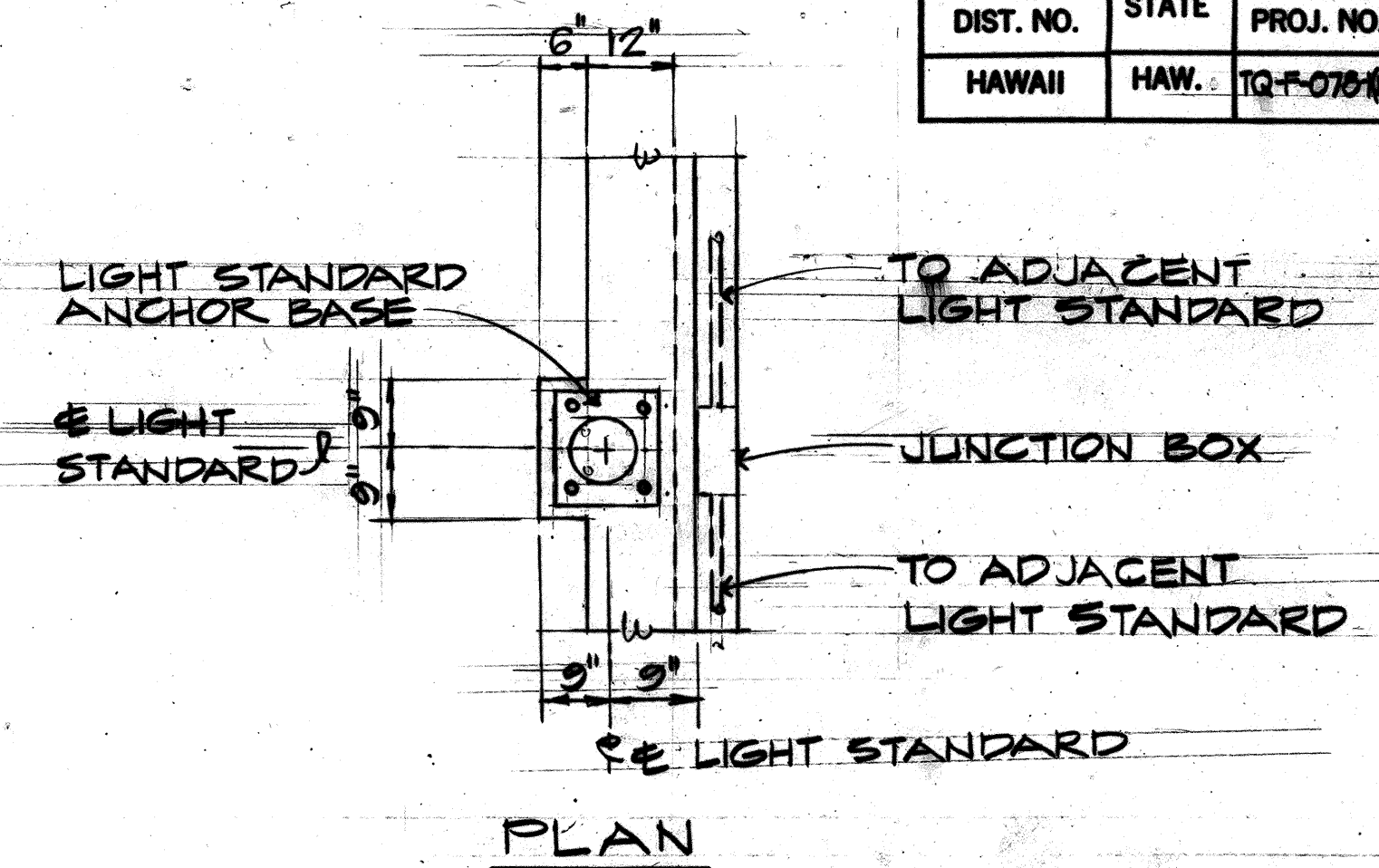
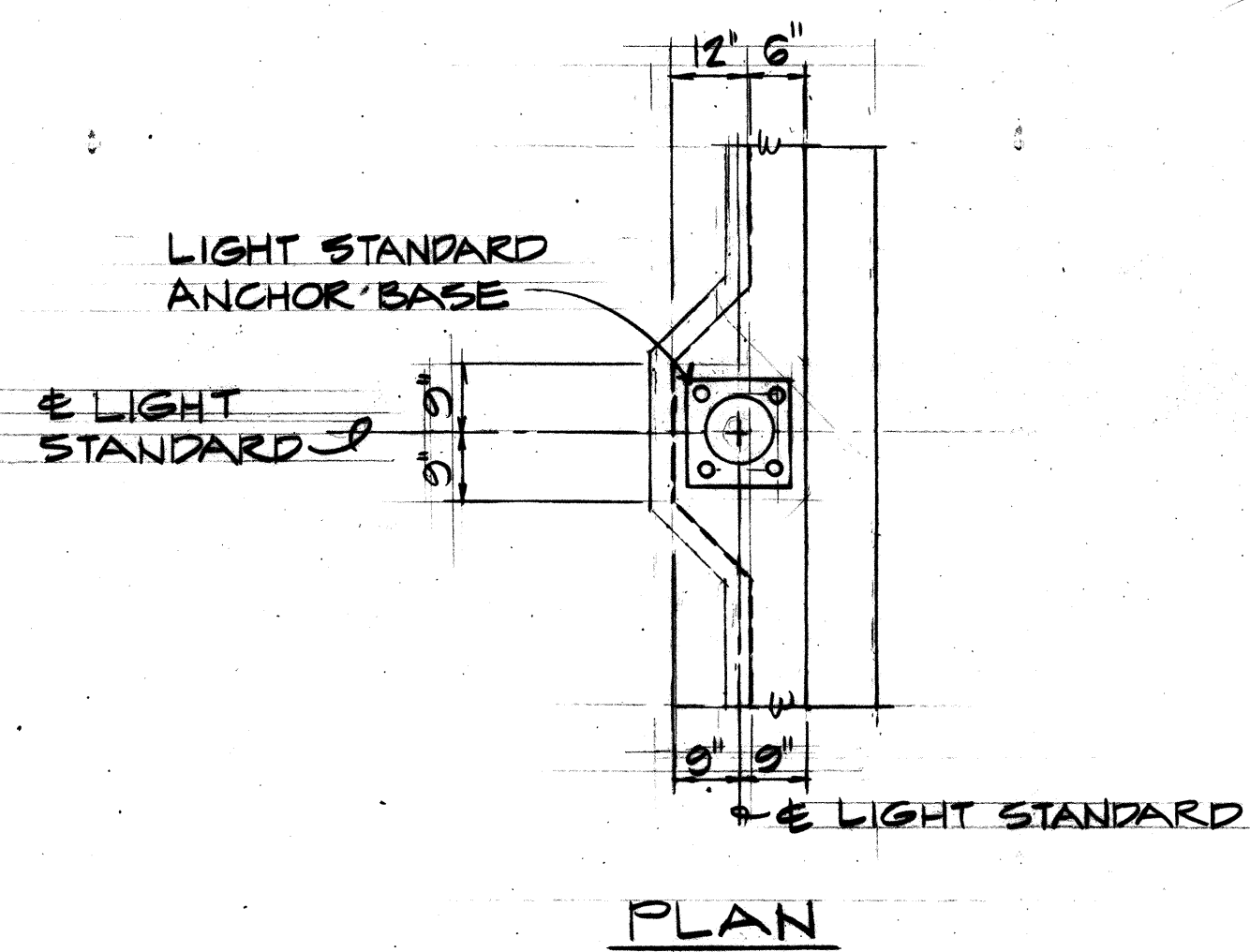
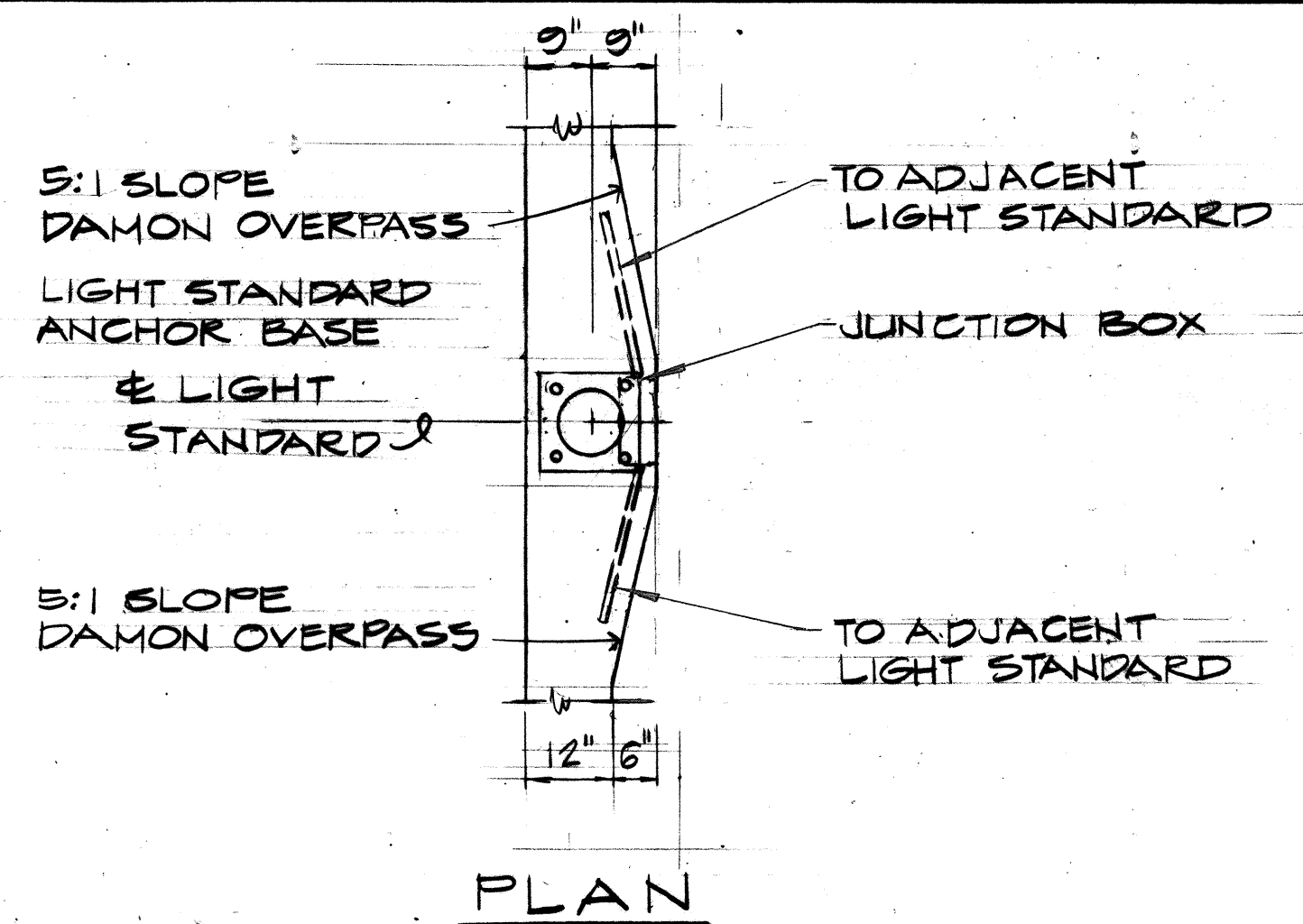
MOANALUA ROAD
PUULOA I.C. TO MIDDLE ST. - UNIT 3A
F.A. Proj. No. TQ-F-078-1(18)

SCALE: AS SHOWN DATE: NOV. 15, 1978
SHEET No. E-2 OF 16 SHEETS

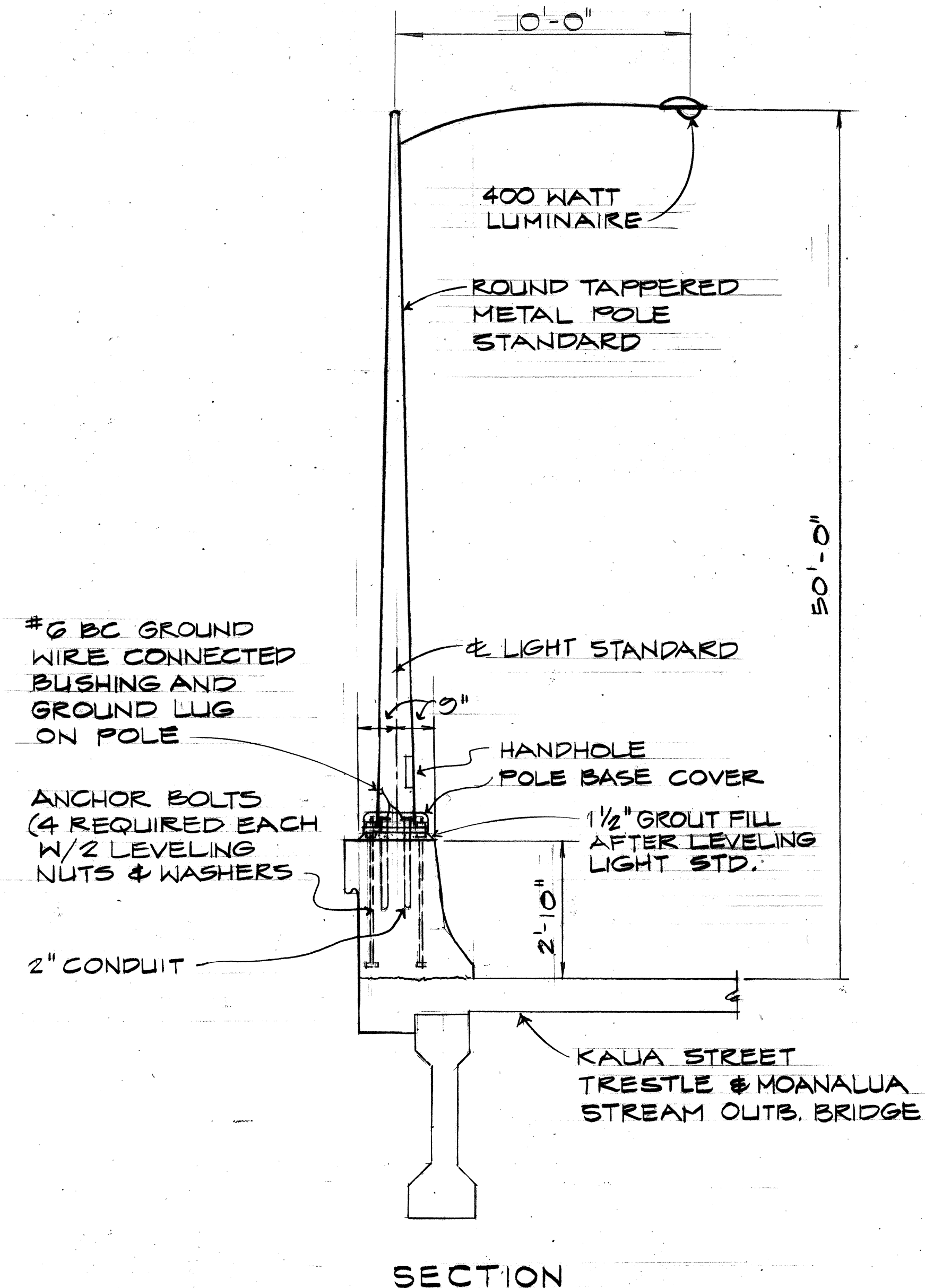
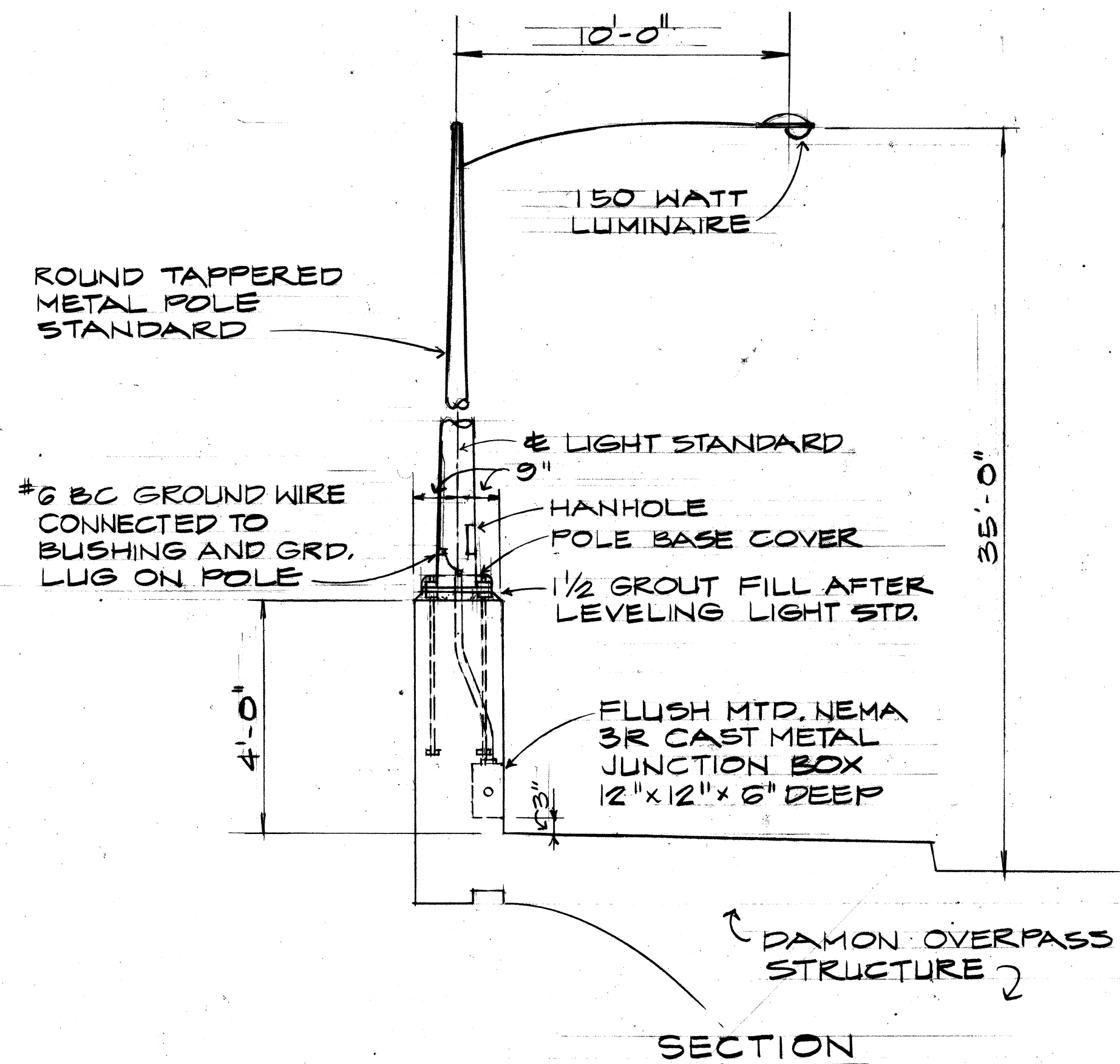
THIS WORK WAS PREPARED BY ME
UNDER MY SUPERVISION

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

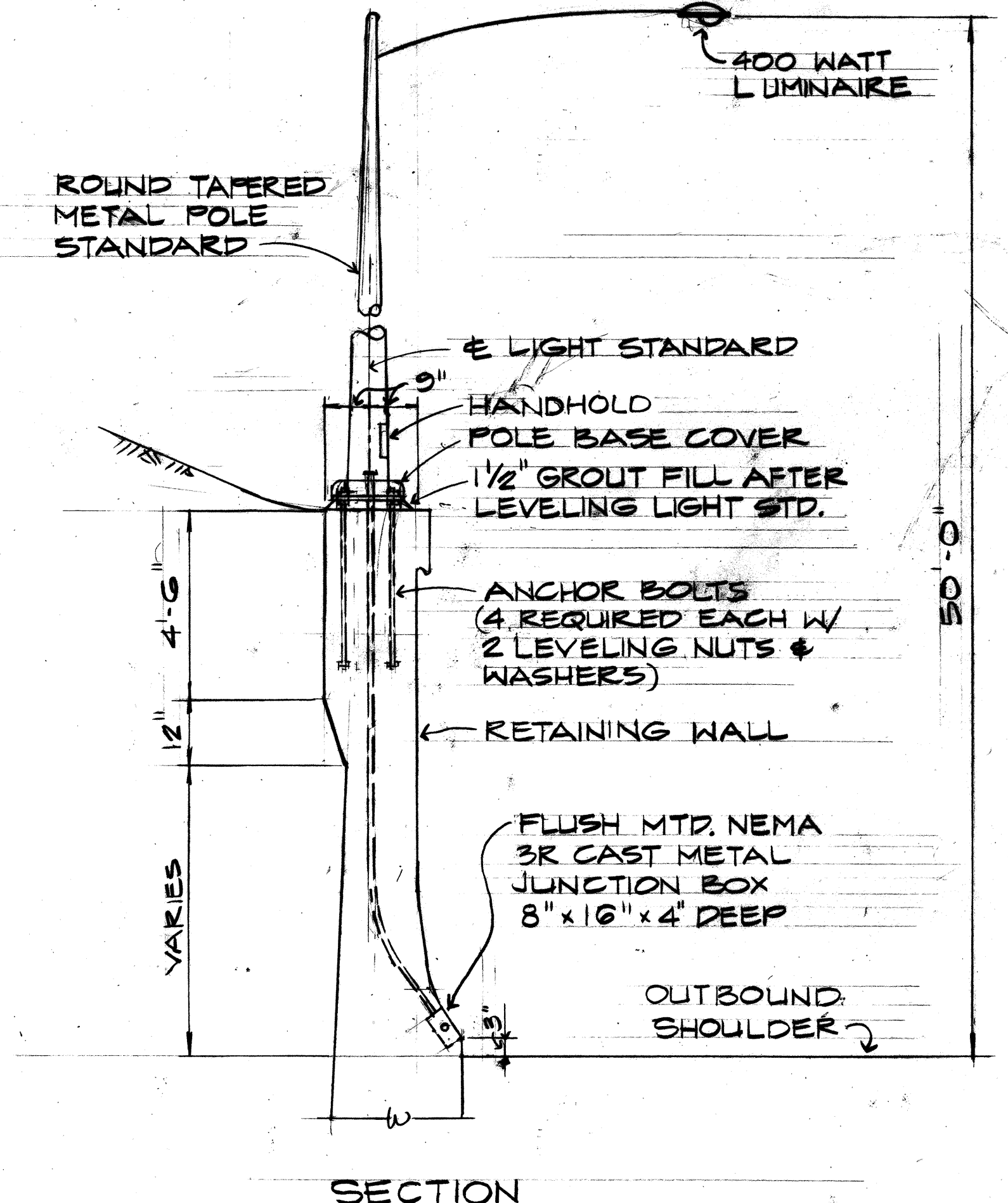
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1	1978	158	266



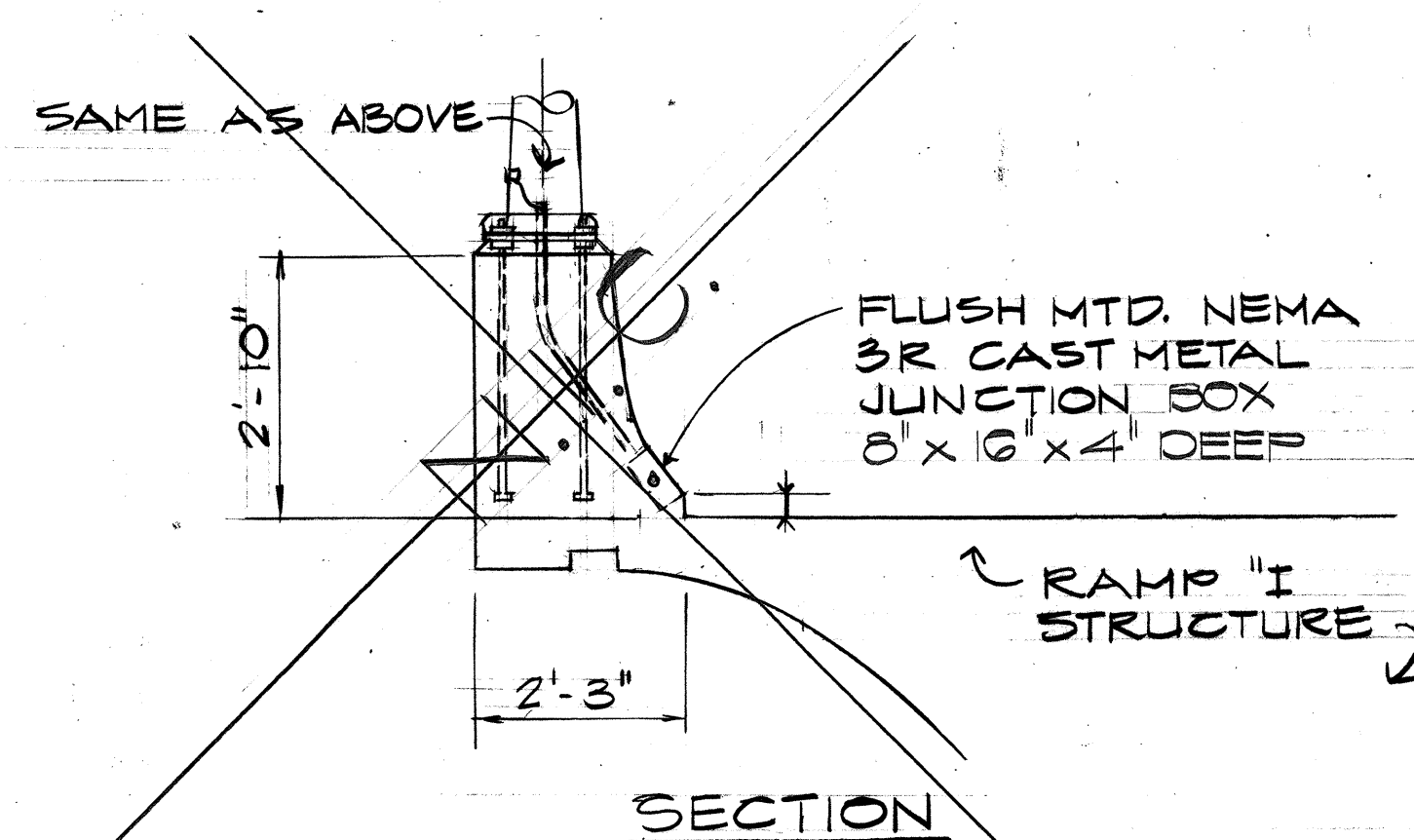
NOTE:
1. LIGHT STANDARD APPROX. FREEWAY
STA. 351+95 ON SIMILAR
MOUNTING DETAIL W/20:1 SLOPE
SEE PLAN, TYPE 'A' LIGHT STD. THIS SHT.



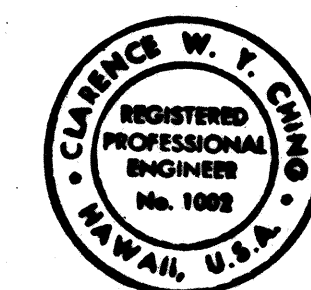
MOUNTING DET. FOR TYPE "B" STD. (B)
NO SCALE



MOUNTING DET. FOR TYPE "C" STD. (C)
NO SCALE



MOUNTING DET. FOR TYPE "A" STD. (A)
NO SCALE



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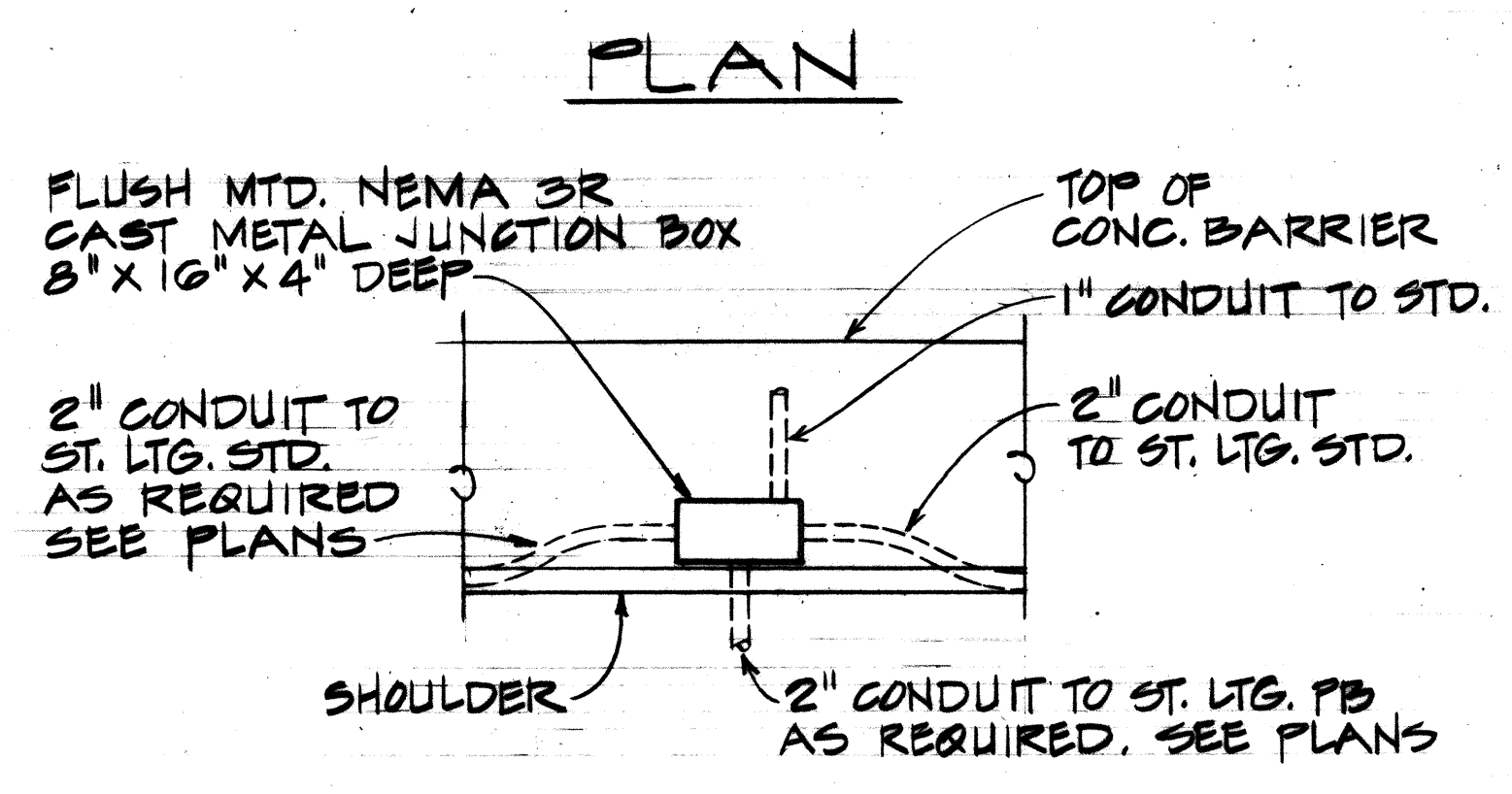
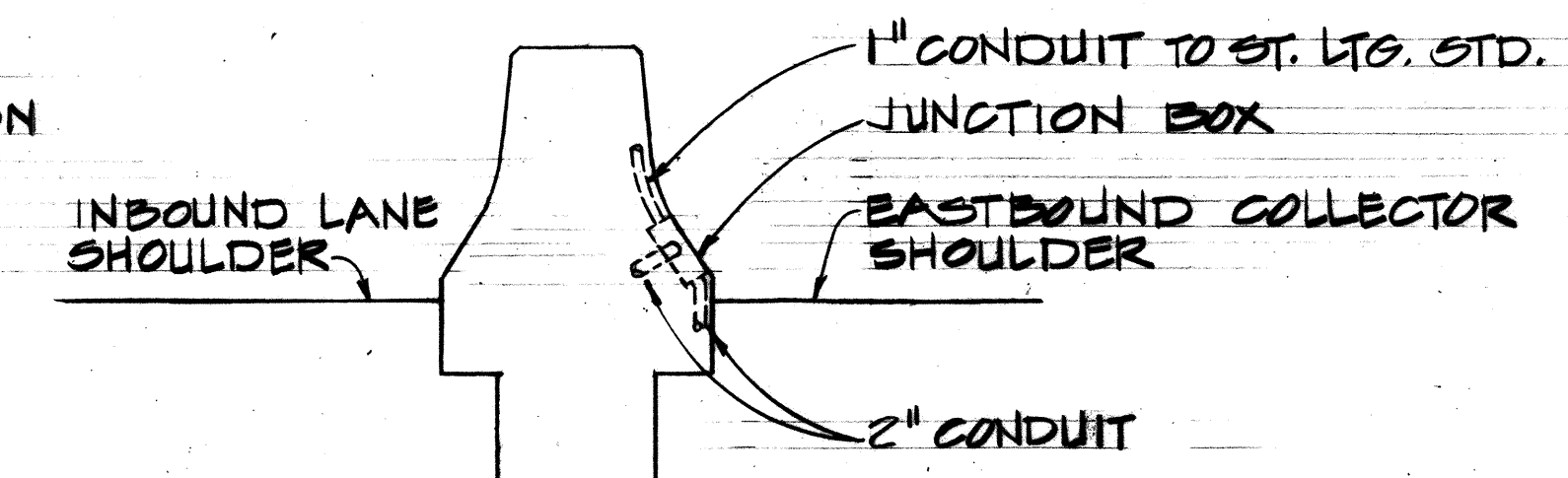
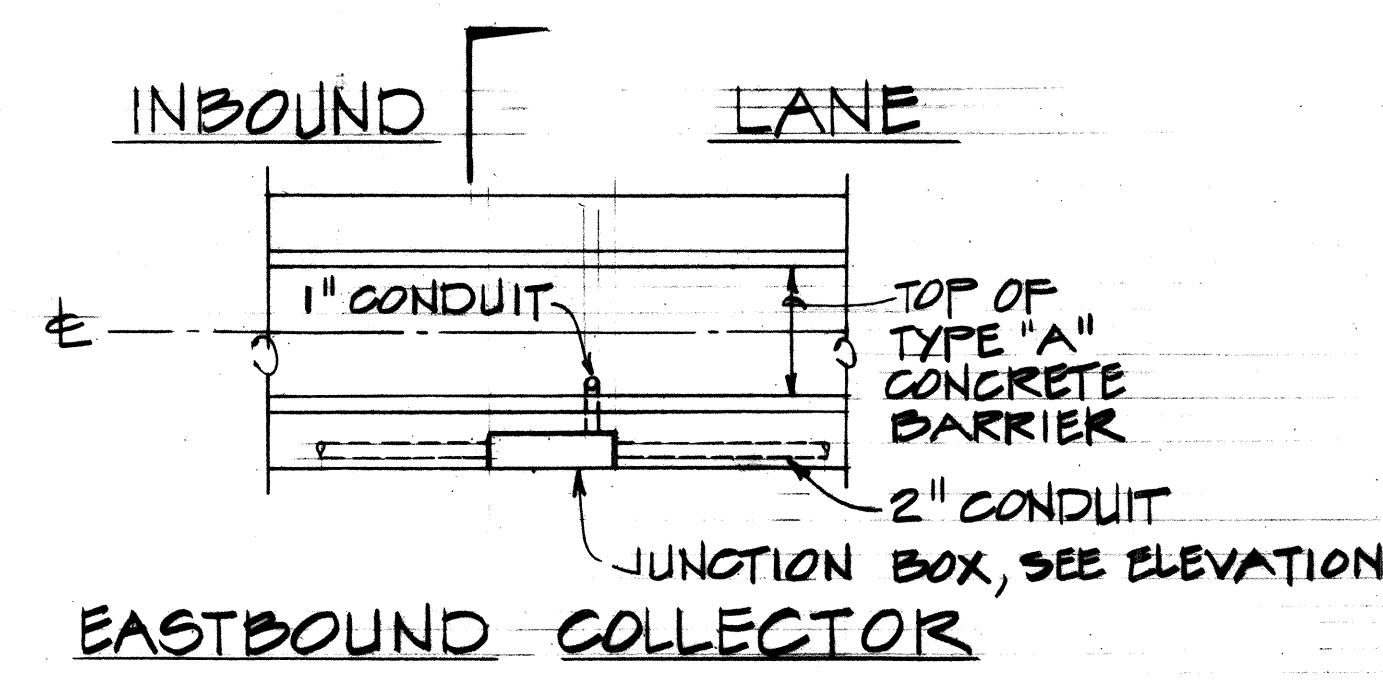
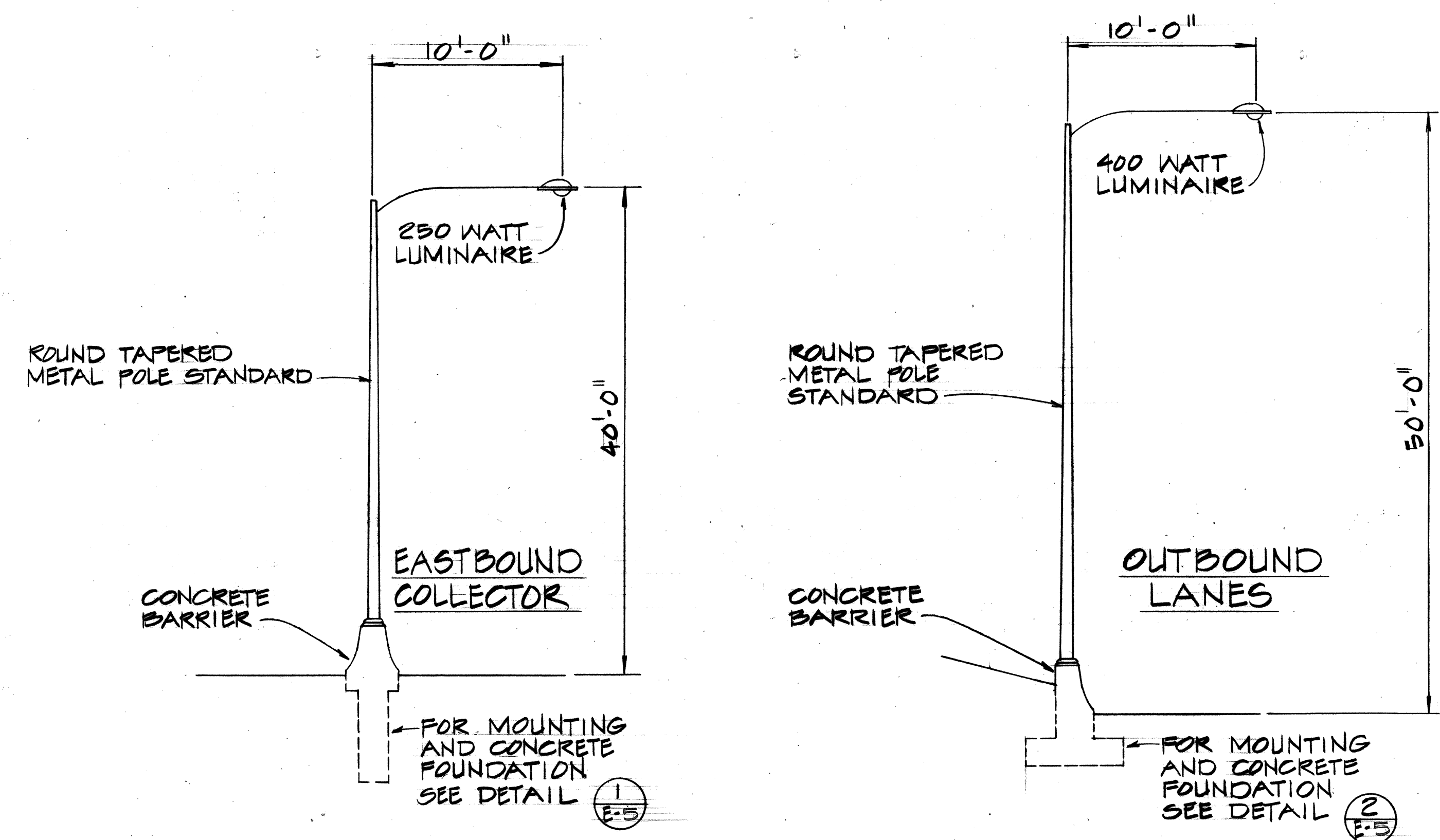
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

**STREET LIGHTING
STANDARD DETAILS**

MOANALUA ROAD
PULOA I.C. TO MIDDLE ST. - UNIT 3A
F.A. PROJ. NO. TQ-F-078-1(18)

SCALE: AS SHOWN DATE: NOV. 15, 1978
SHEET NO. E-4 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(15)	1978	159	266



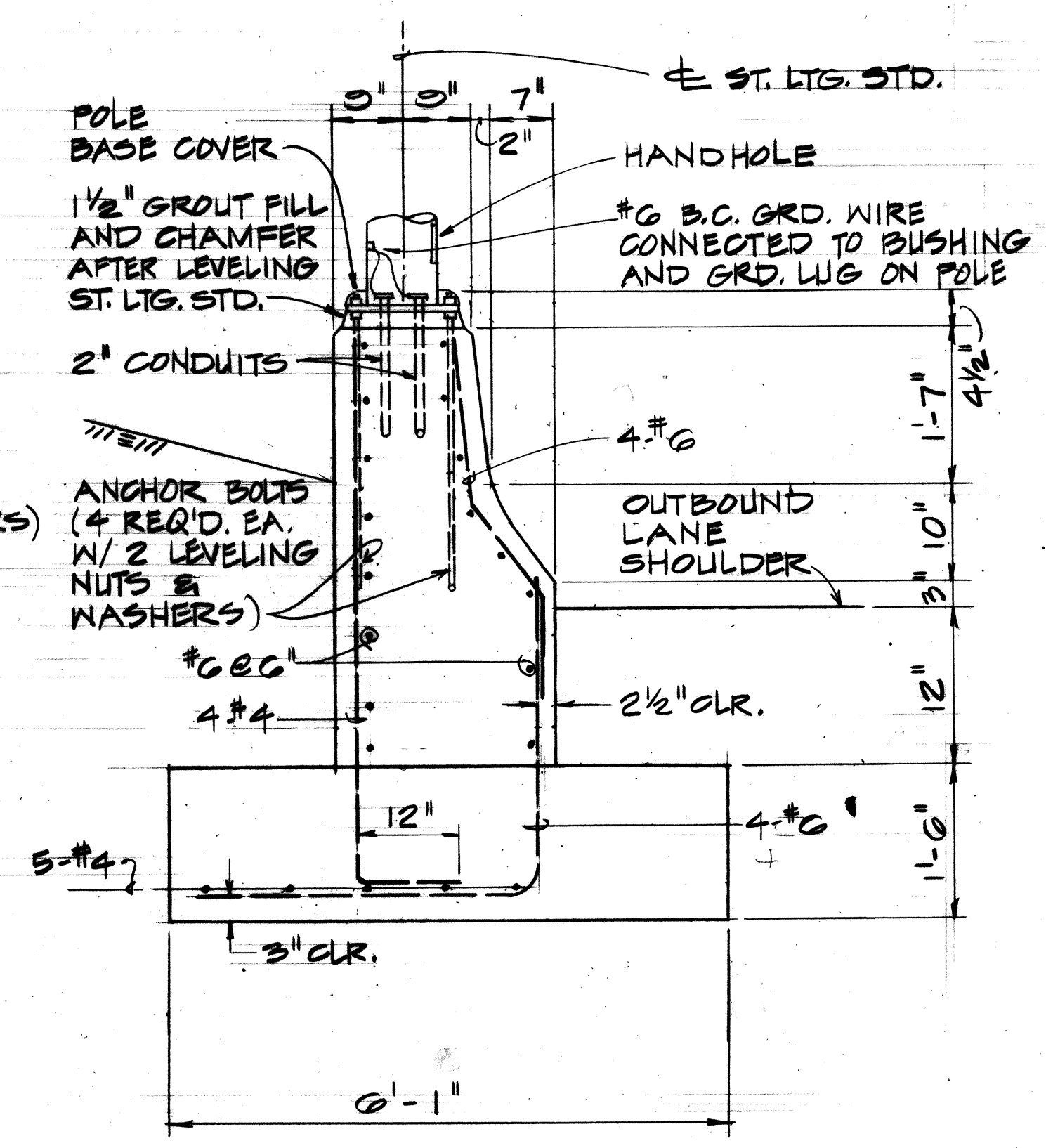
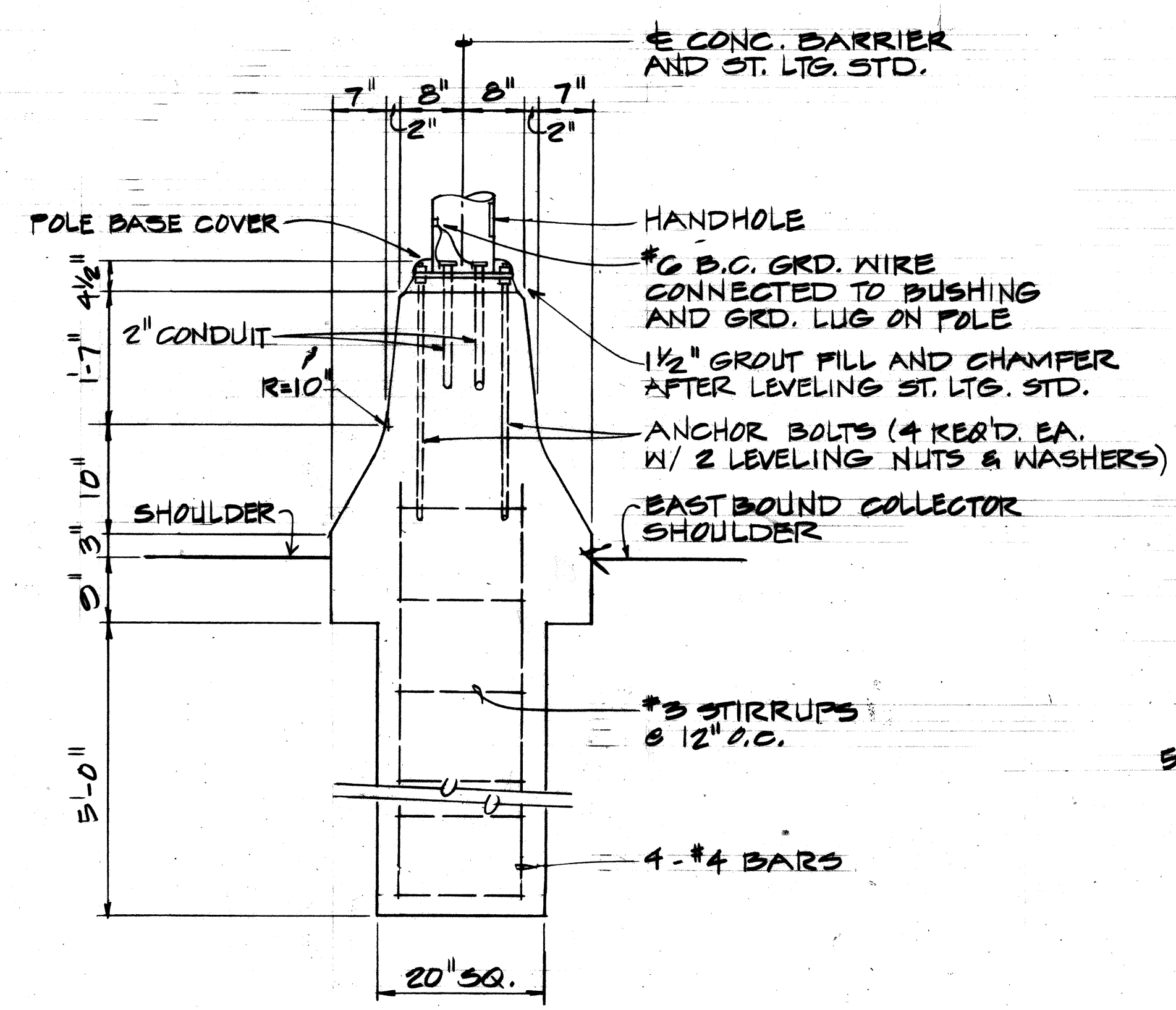
SECTION

ELEVATION

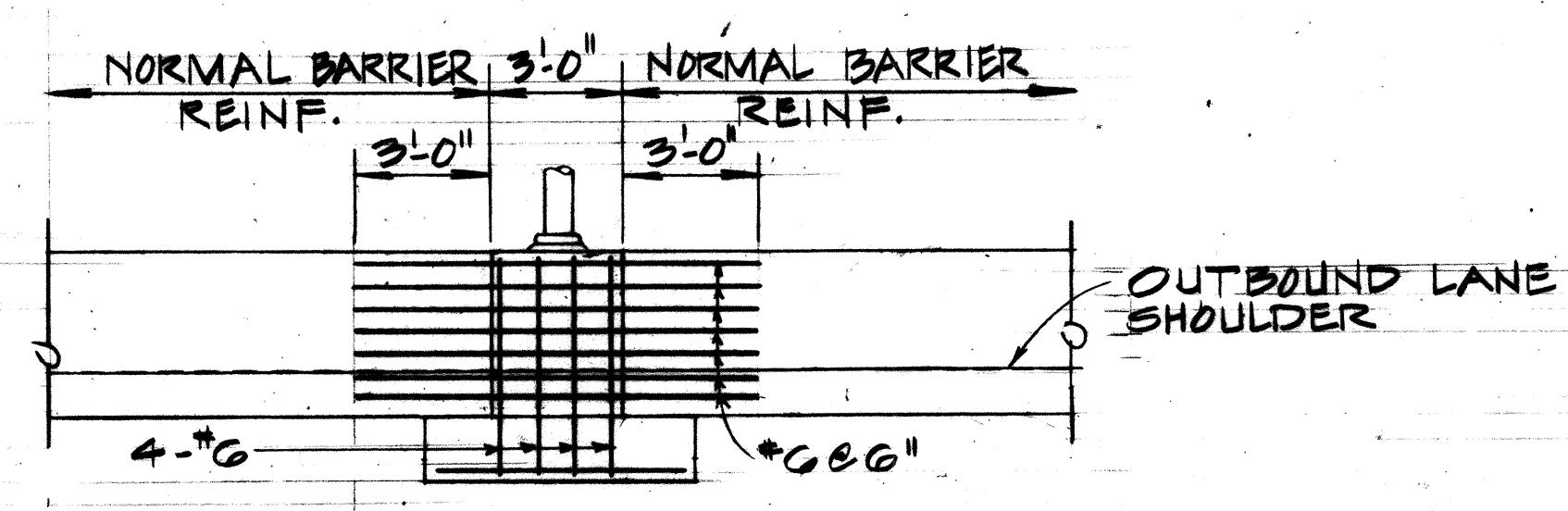
JUNCTION BOX MOUNTING DETAILS (3)
NO SCALE

TYPE "D" ST. LTG. STD. DETAIL (A)
NO SCALE

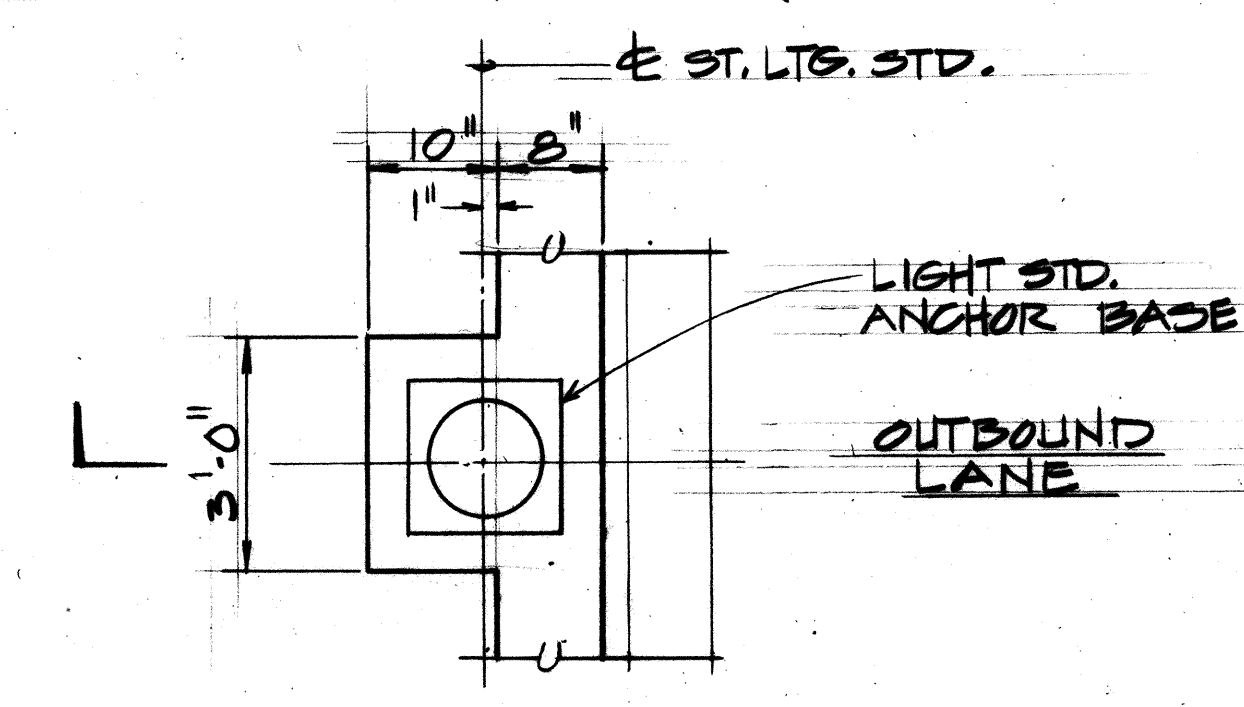
TYPE "E" ST. LTG. STD. DETAIL (B)
NO SCALE



SECTION



ELEVATION



PLAN

MOUNTING DETAIL
FOR TYPE "D" ST. LTG. STD. (1)
NO SCALE

MOUNTING DETAIL FOR TYPE "E" ST. LTG. STD. (2)
NO SCALE



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OR UNDER MY SUPERVISION.

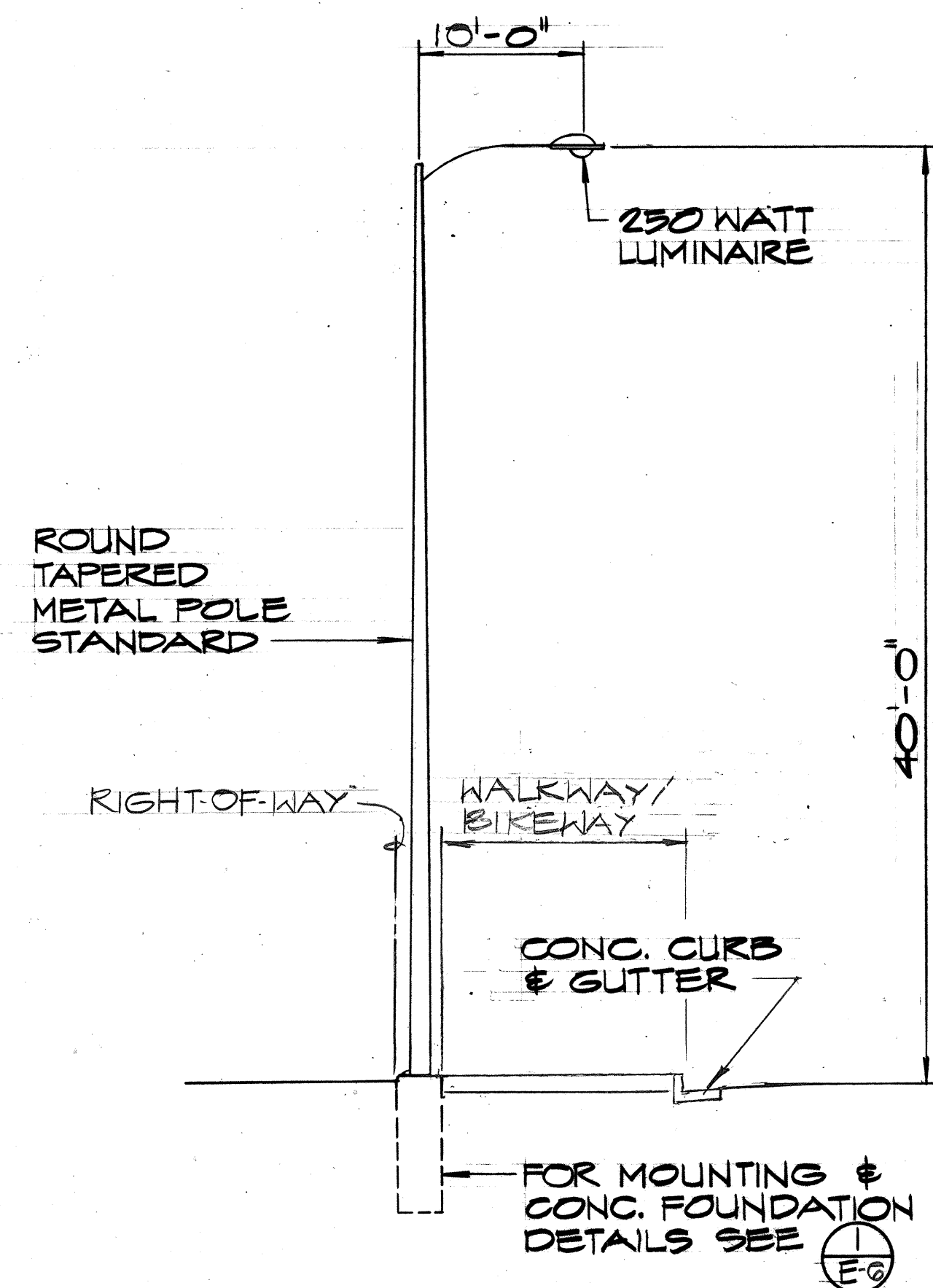
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

**STREET LIGHTING
STANDARD DETAILS**

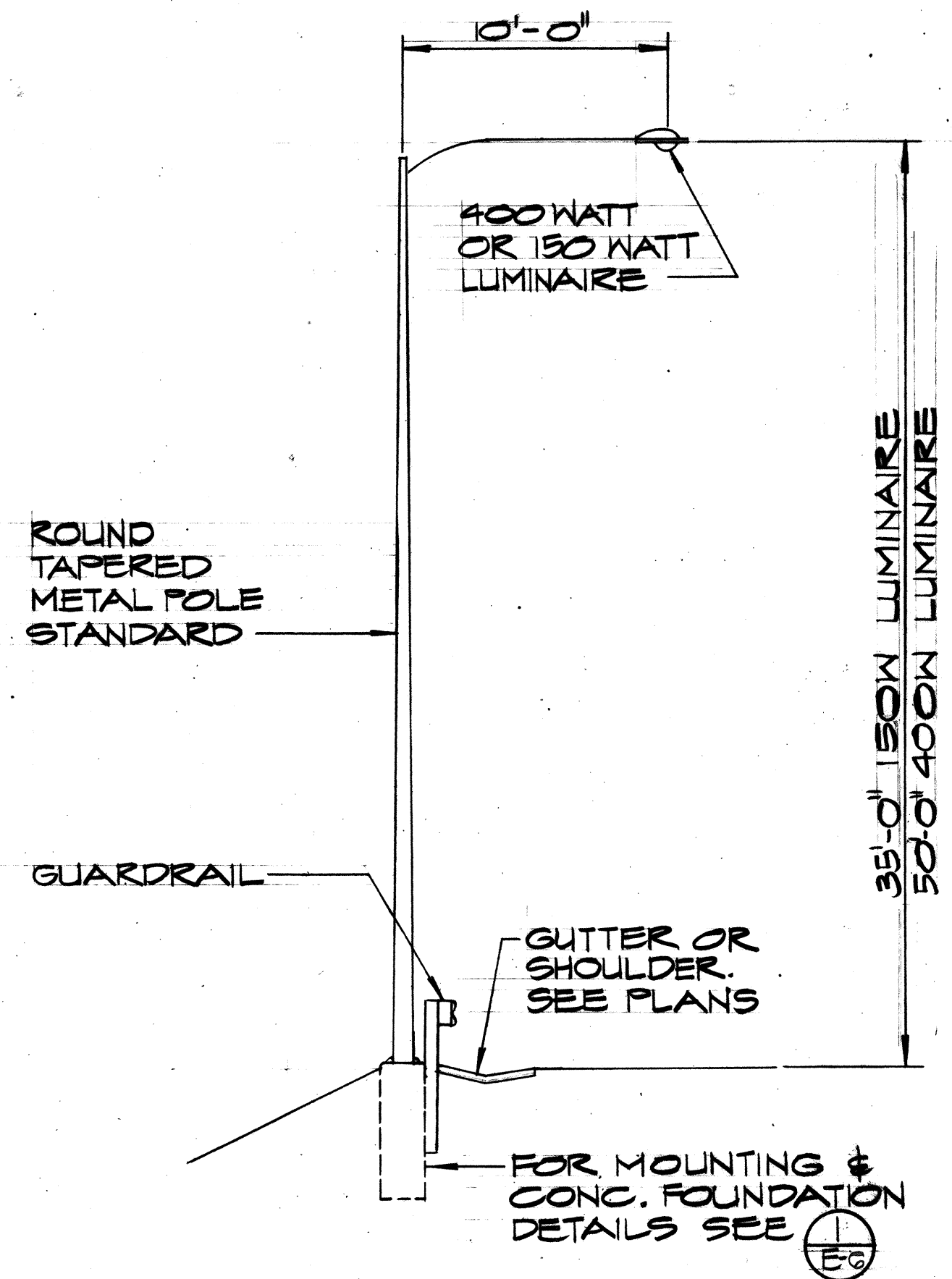
MOANALUA ROAD
PUULOA I.C. TO MIDDLE ST. - UNIT 3A
F.A. PROJ. NO. TQ-F-078-1(15)

SCALE: AS SHOWN DATE: NOV. 15, 1978
SHEET NO. 159 OF 16 SHEETS

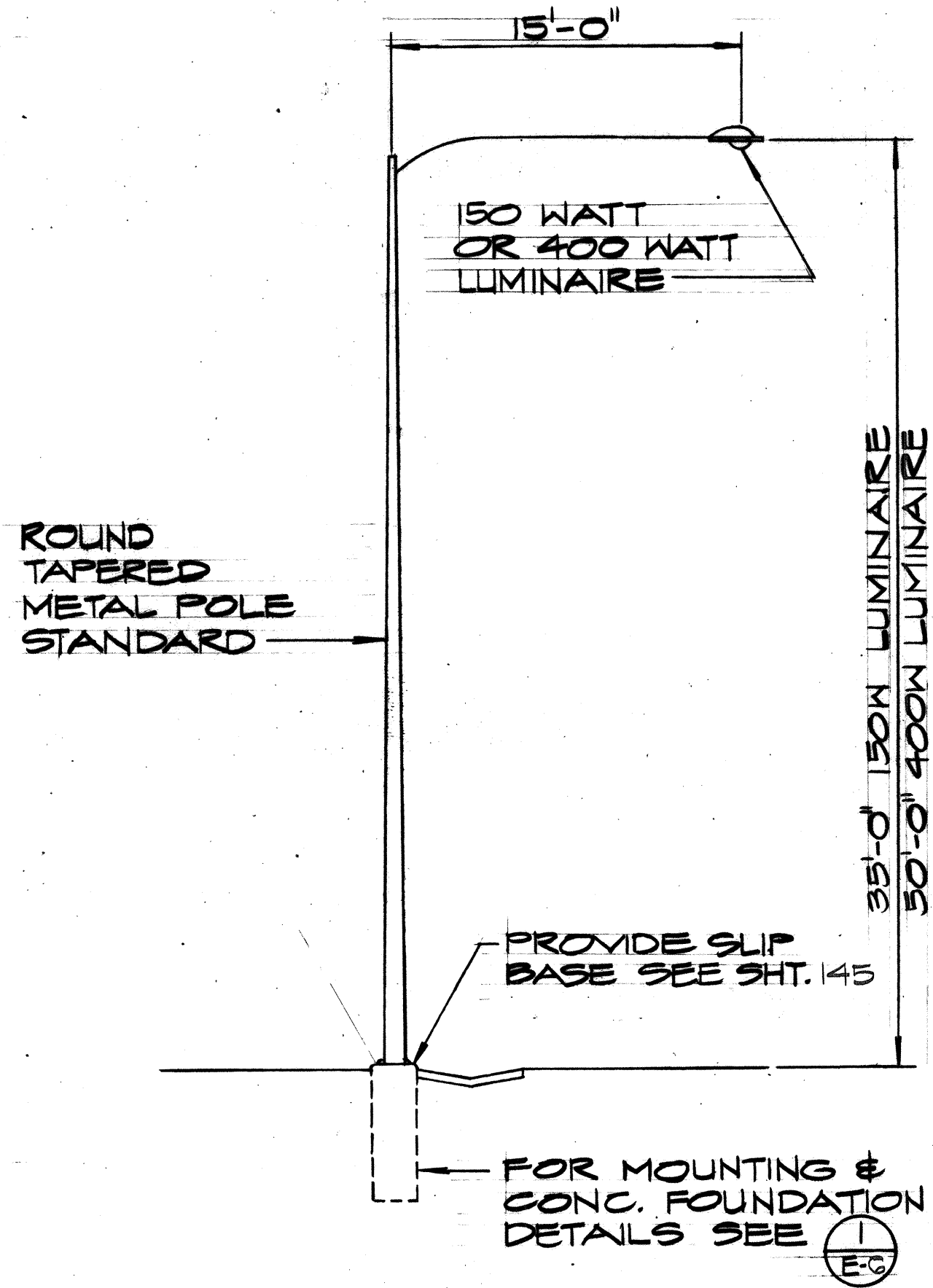
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1Q-F-078-1(18)	1978	160	200



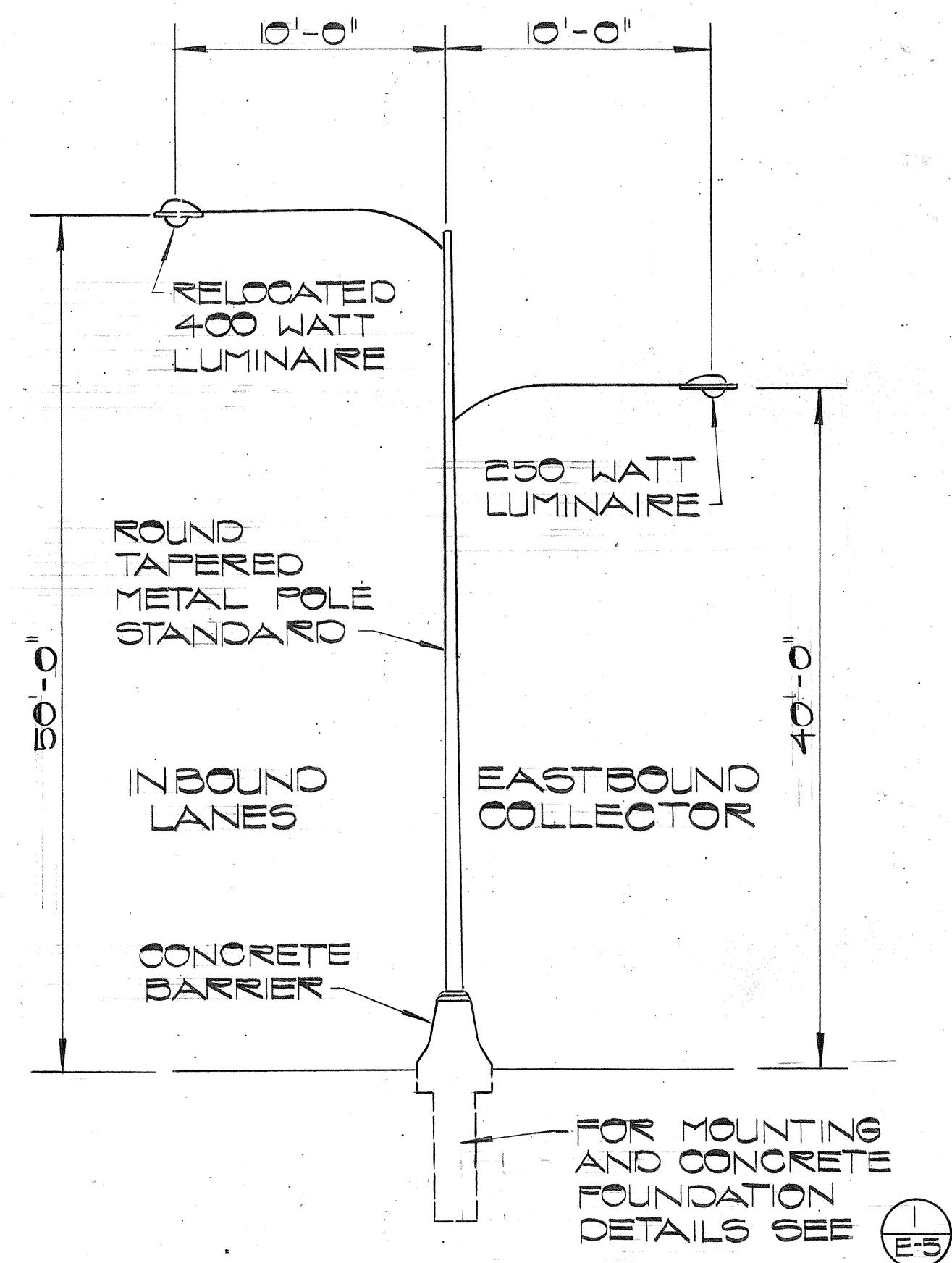
TYPE "F" ST. LTG. STANDARD DET. (A)
NO SCALE E-6



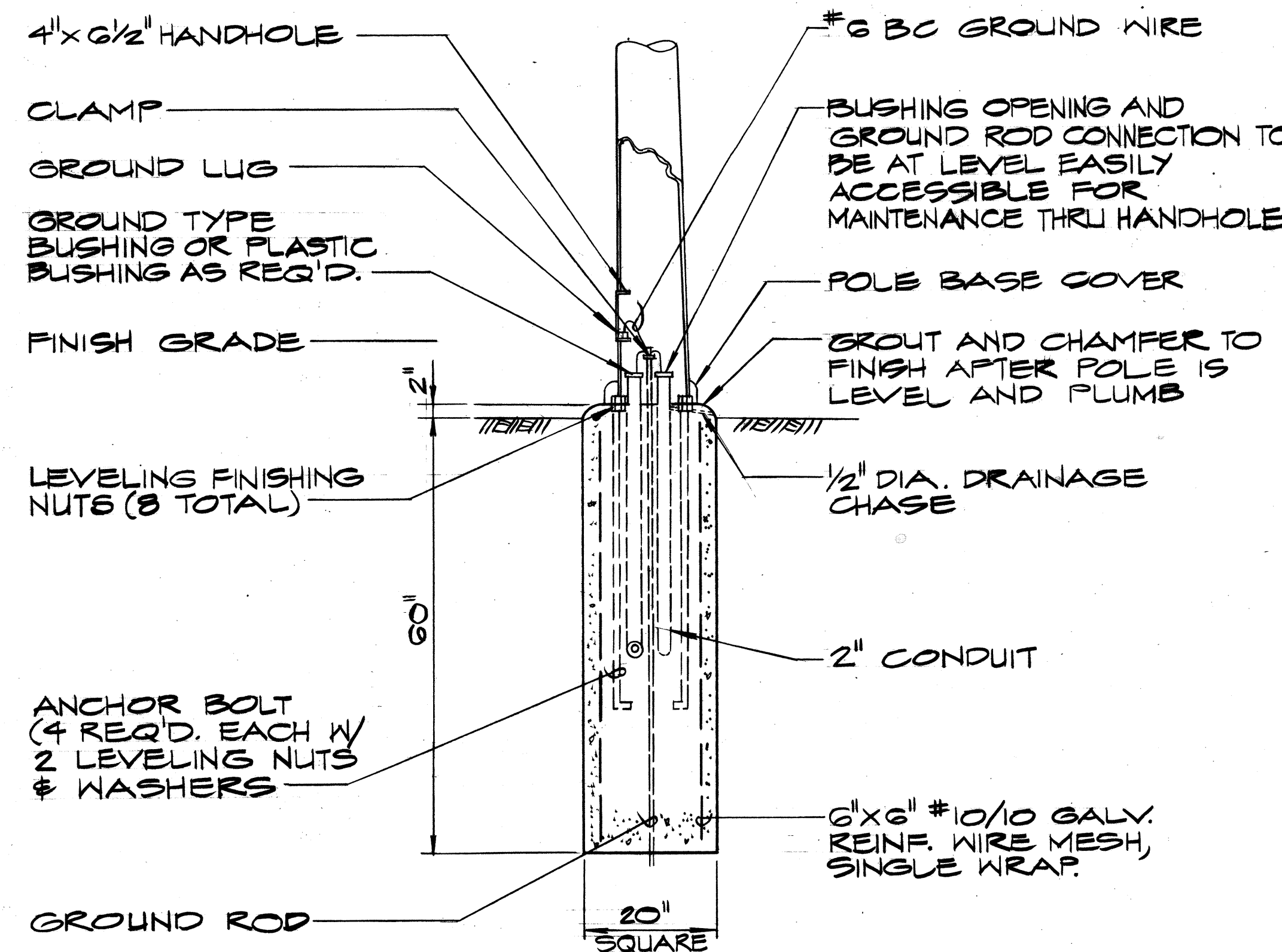
TYPE "G" ST. LTG. STANDARD DET. (B)
NO SCALE E-6



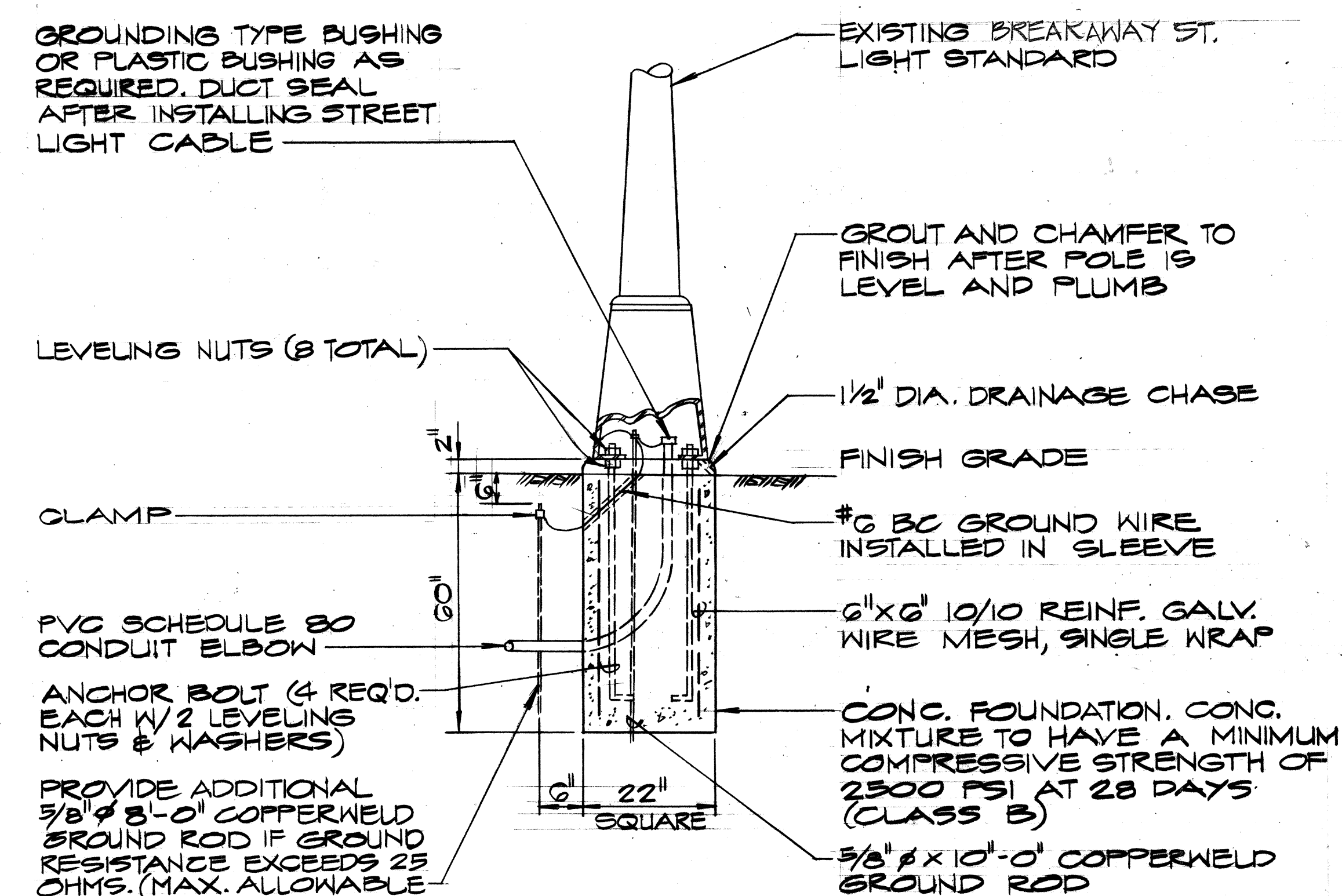
TYPE "H" ST. LTG. STANDARD DET. (C)
NO SCALE E-6



TYPE "I" ST. LTG. STD. DETAIL (D)
NO SCALE E-6



MOUNTING DETAIL FOR TYPE F, G & H ST. LTG. STD. (1)
NO SCALE E-6



TYP. MOUNTING DET. FOR RELOCATED STREET LTG. STD. (2)
NO SCALE E-6



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

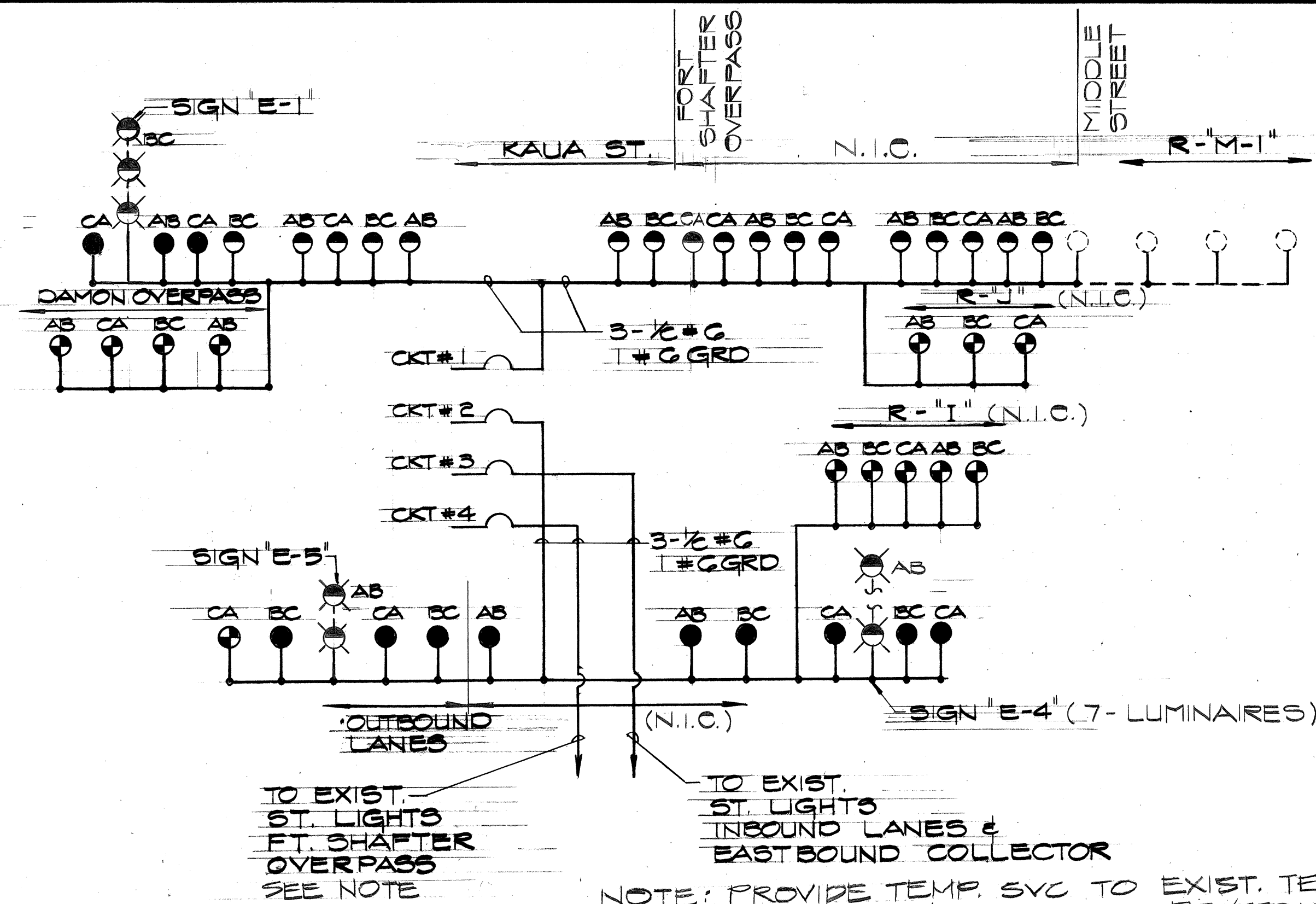
**STREET LIGHTING
STANDARD DETAILS**

MOANALUA ROAD
PUULOA I.C. TO MIDDLE ST. - UNIT 3A
P.A. PROJ. NO. 1Q-F-078-1(18)

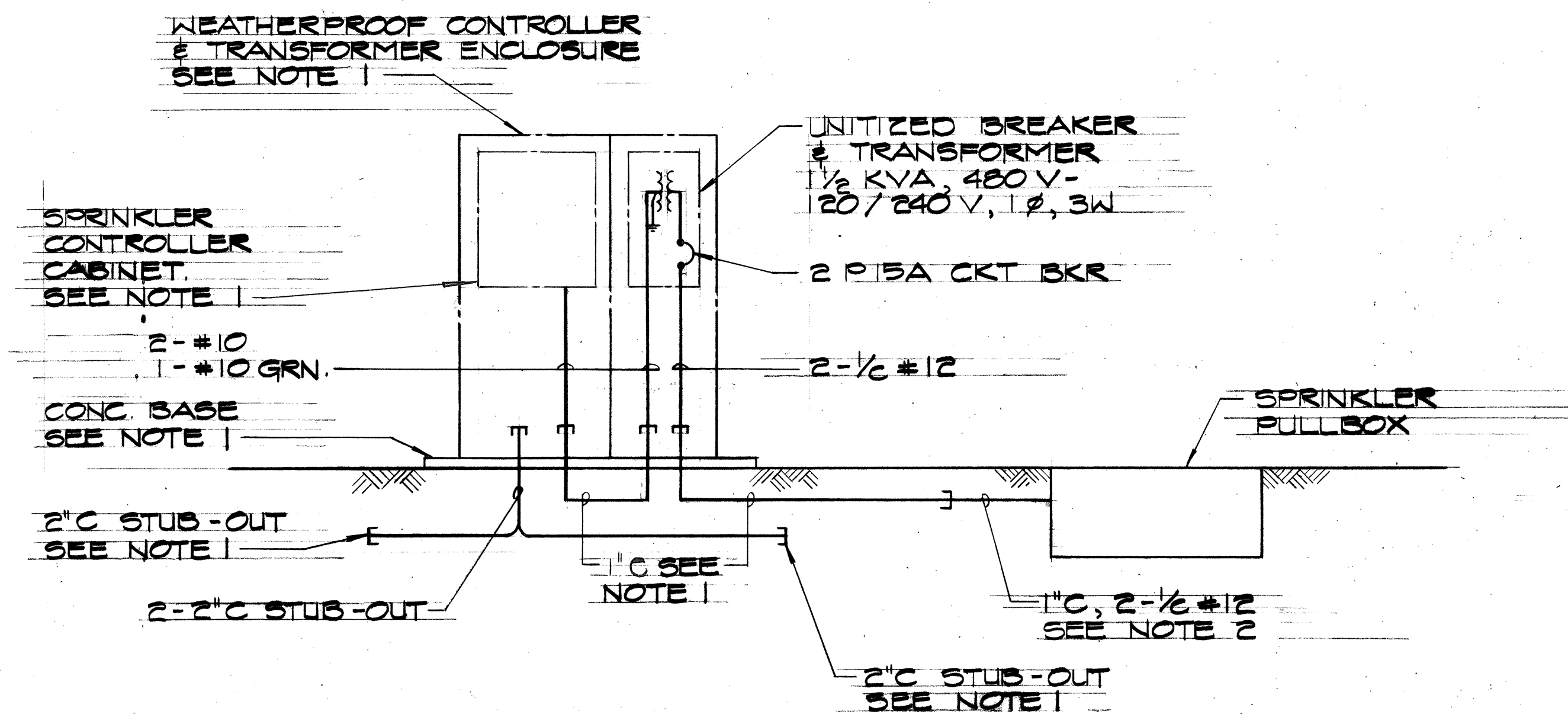
SCALE: AS SHOWN DATE: NOV. 15, 1978
SHEET NO. E-6 OF 10 SHEETS

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.	106-07416	1978	161	200

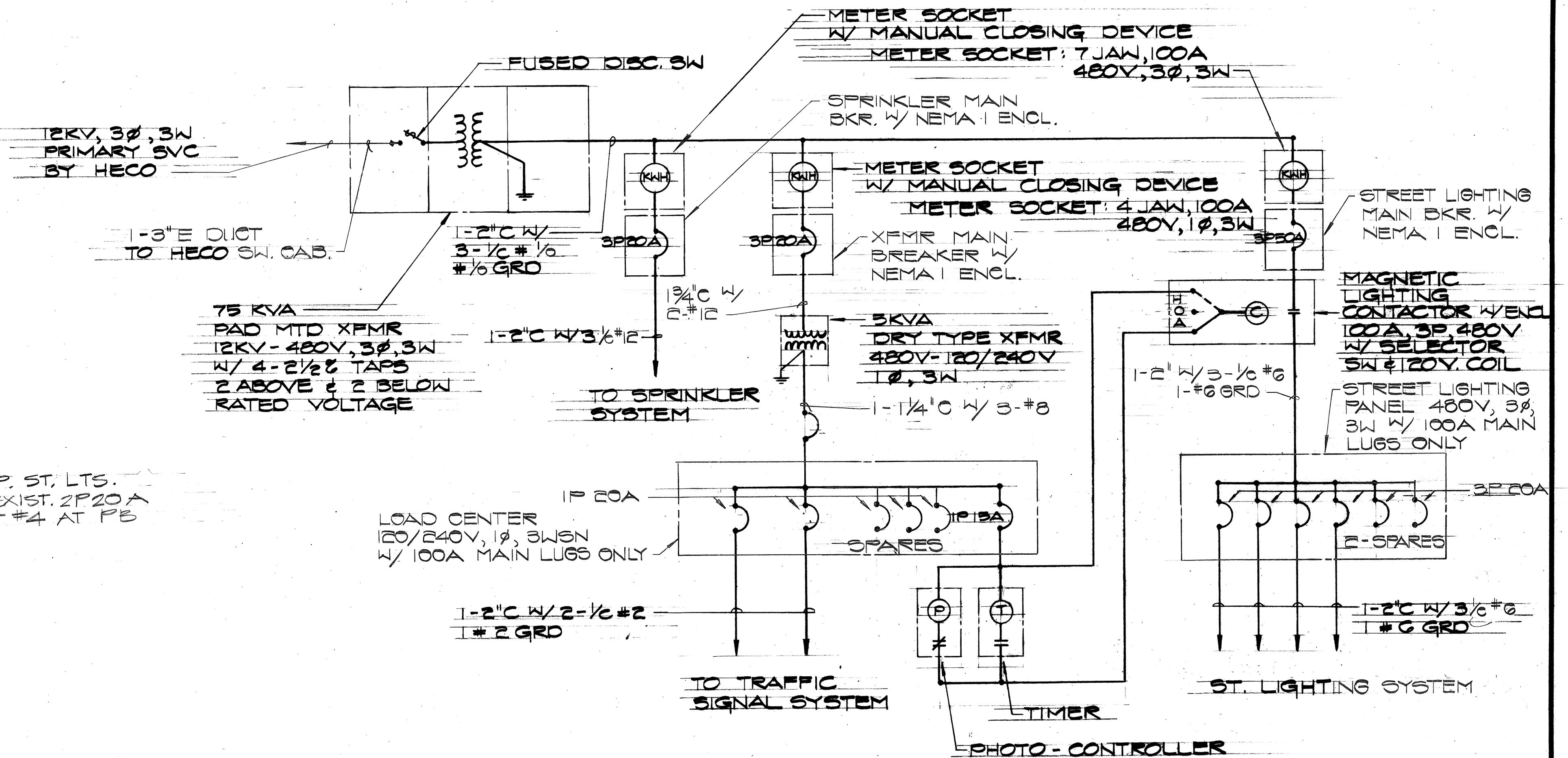


STREET LIGHTING ONE-LINE DIAGRAM (A)
NO SCALE

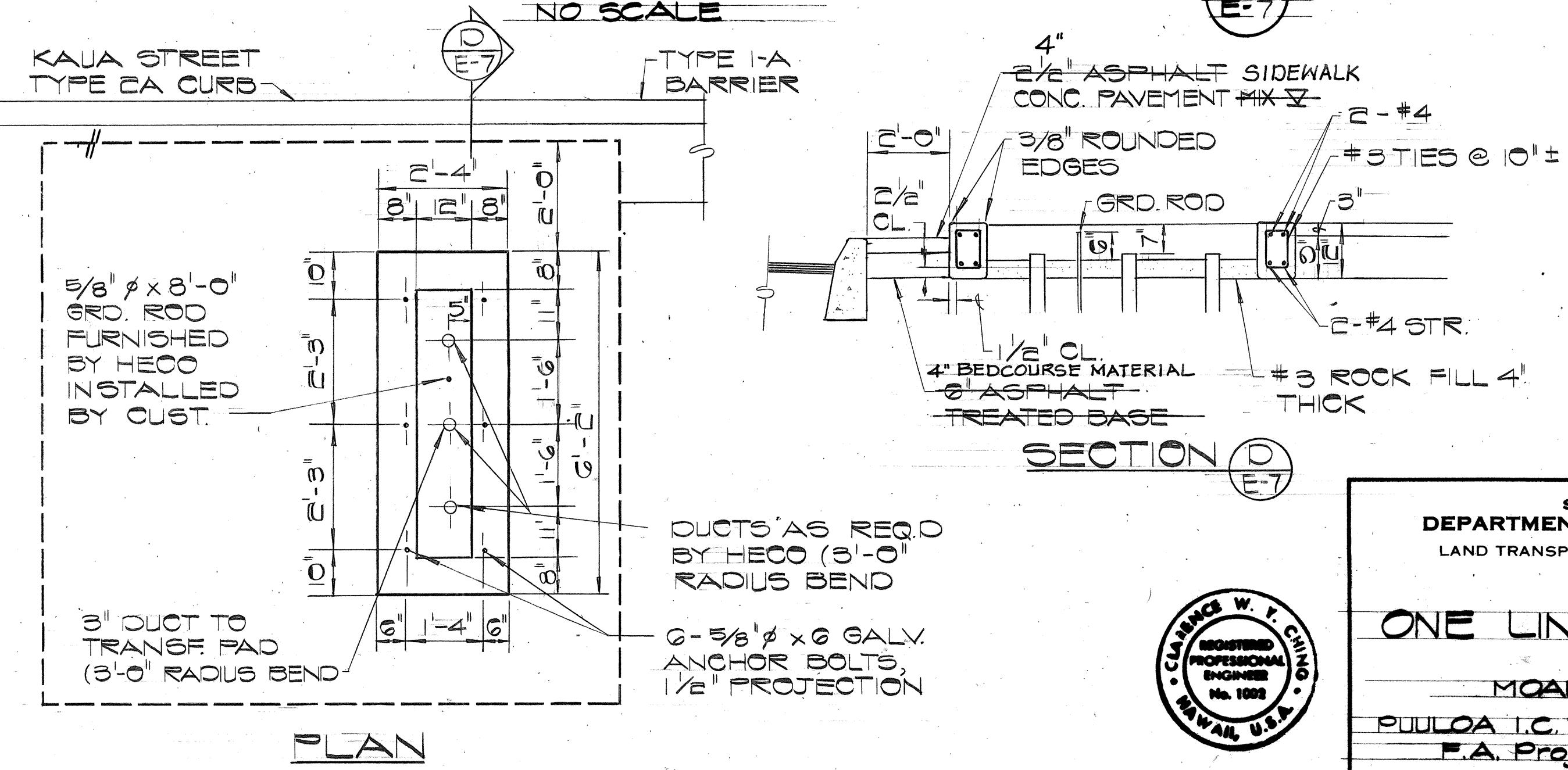


- NOTE:**
1. WEATHERPROOF CONTROLLER & TRANSFORMER ENCLOSURE, SPRINKLER CONTROLLER CABINET, CONCRETE BASE & CONDUIT STUB-OUTS BY SPRINKLER CONTRACTOR.
 2. EXTEND 1" C TO STUB-OUT.

TYPICAL ONE LINE DIAGRAM (B) SPRINKLER CONTROLLER
NO SCALE



ONE LINE DIAGRAM (C)
NO SCALE



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

ONE LINE DIAGRAM

MOANALUA ROAD

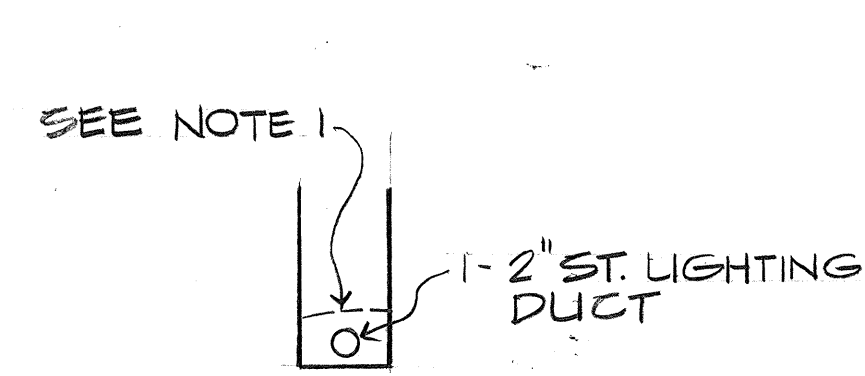
PULUOA I.C. TO MIDDLE ST. - UNIT 3A

P.A. Proj. No. TQ-P-078-1(16)

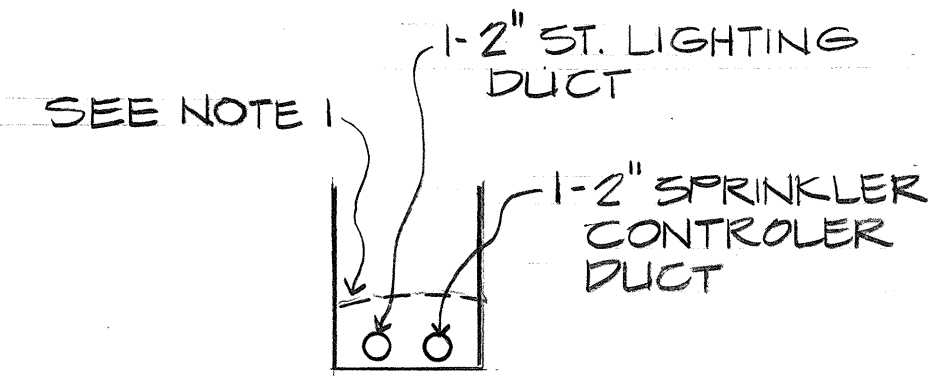
SCALE: AS SHOWN DATE: NOV. 15, 1978

SHEET NO. E-7 OF 12 SHEETS

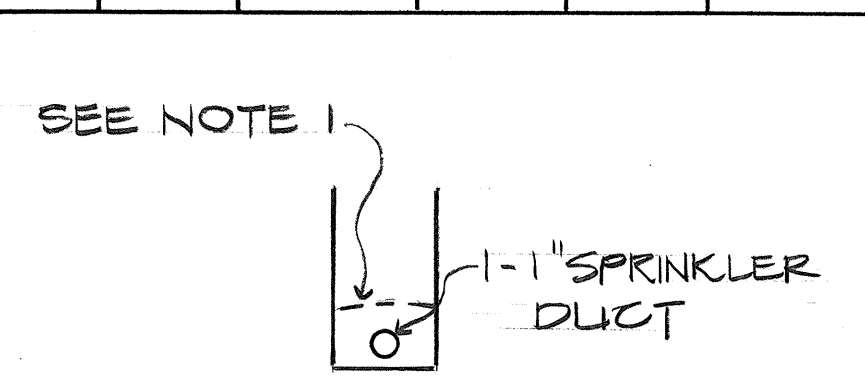
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(18)	1978	162	266



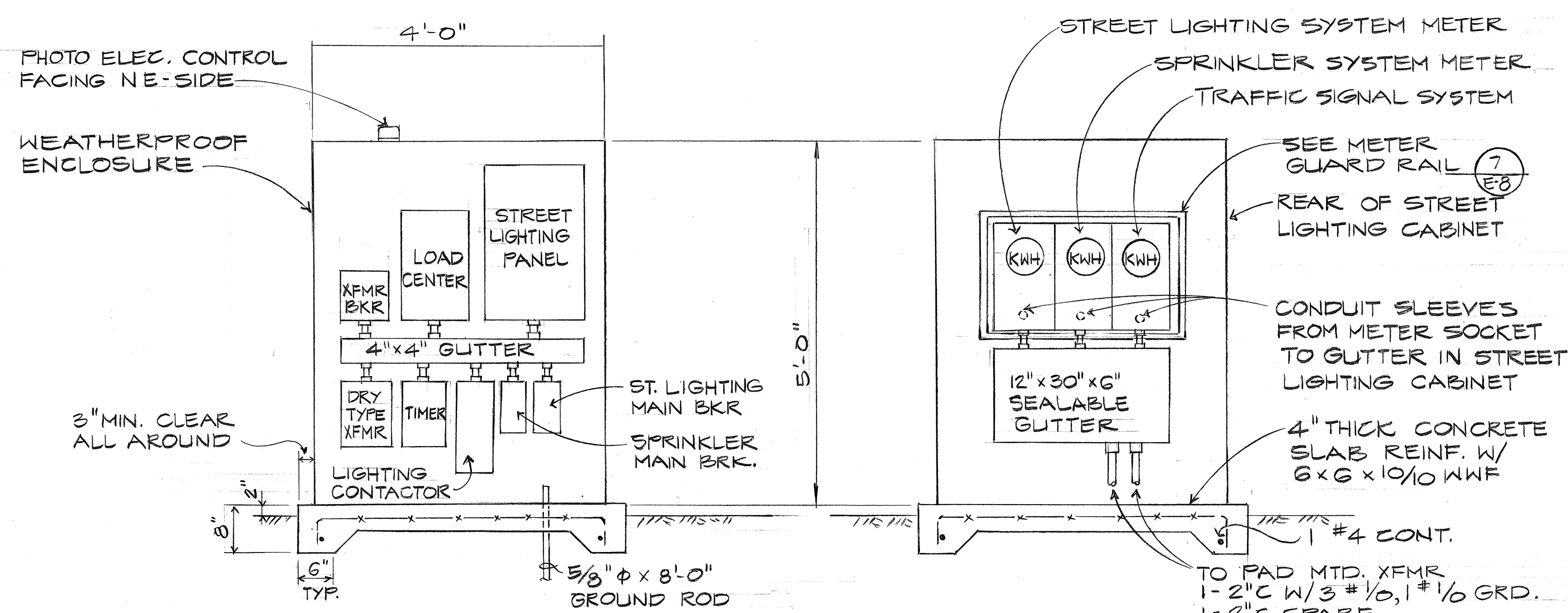
NOTE:
1A SIMILAR ADD 1-2" ST. LG. DUCT (SPARE)
DUCT SECTION 1
NO SCALE **(E-8)**



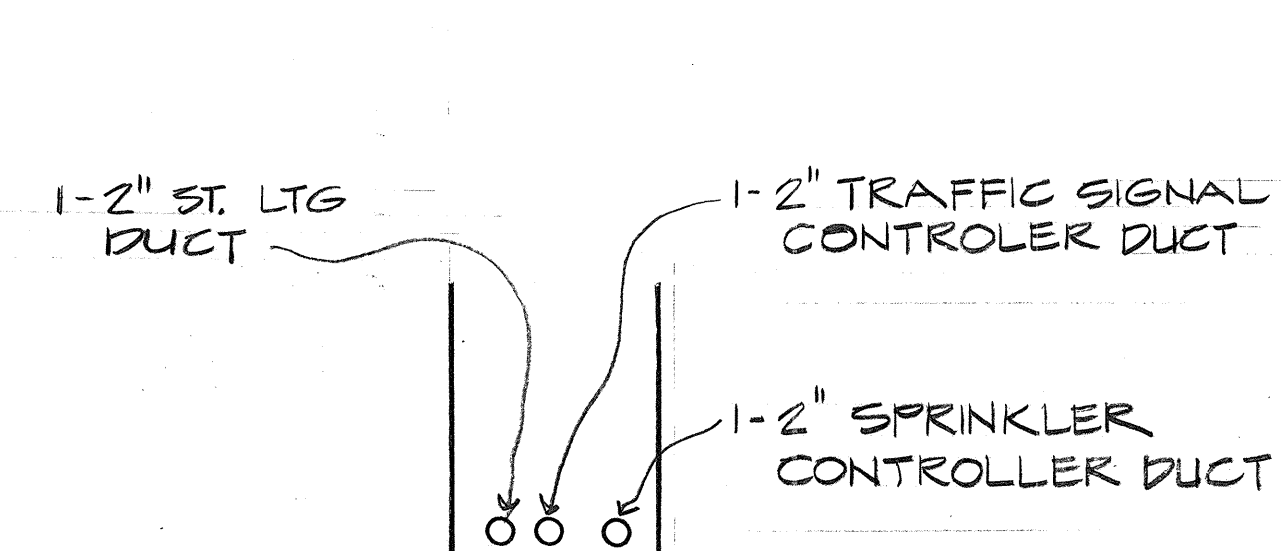
DUCT SECTION 2
NO SCALE **(E-8)**



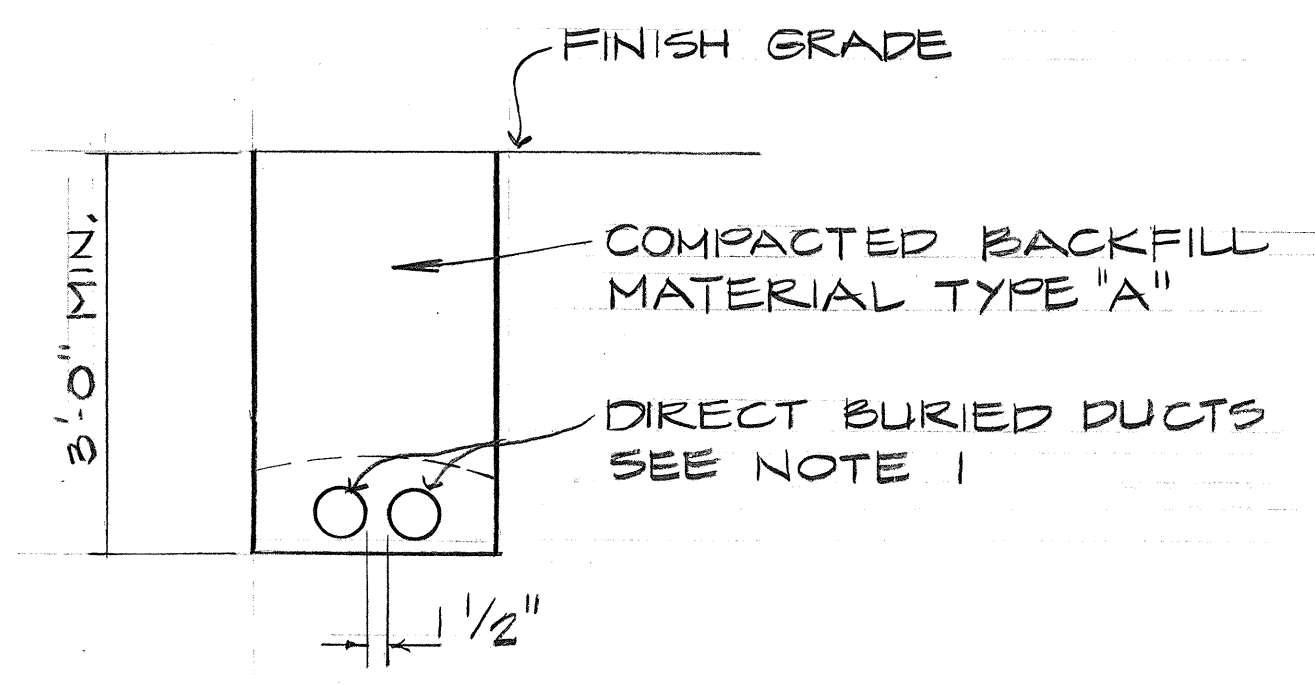
DUCT SECTION 3
NO SCALE **(E-8)**



BACK ELEVATION **FRONT ELEVATION**
STREET LIGHTING CABINET AND PAD DETAIL
SCALE: 3/4" = 1'-0" **(E-8)**

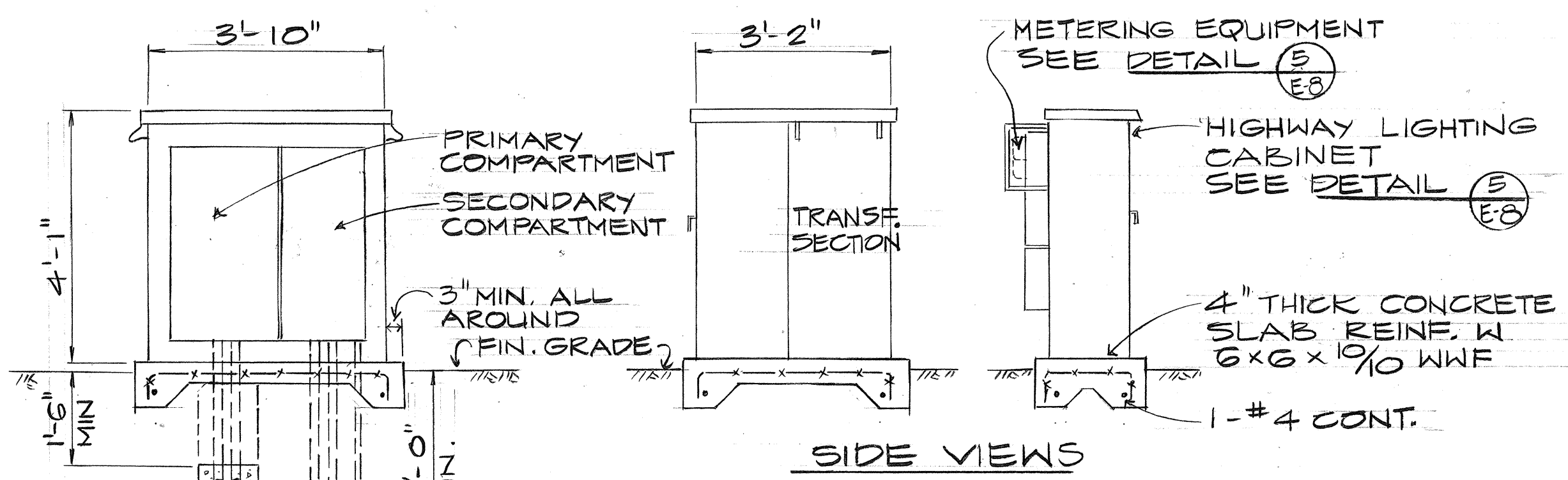


NOTE:
4A SIMILAR
ADD 1-2" ST. LG. DUCT
DUCT SECTION 4
NO SCALE **(E-8)**



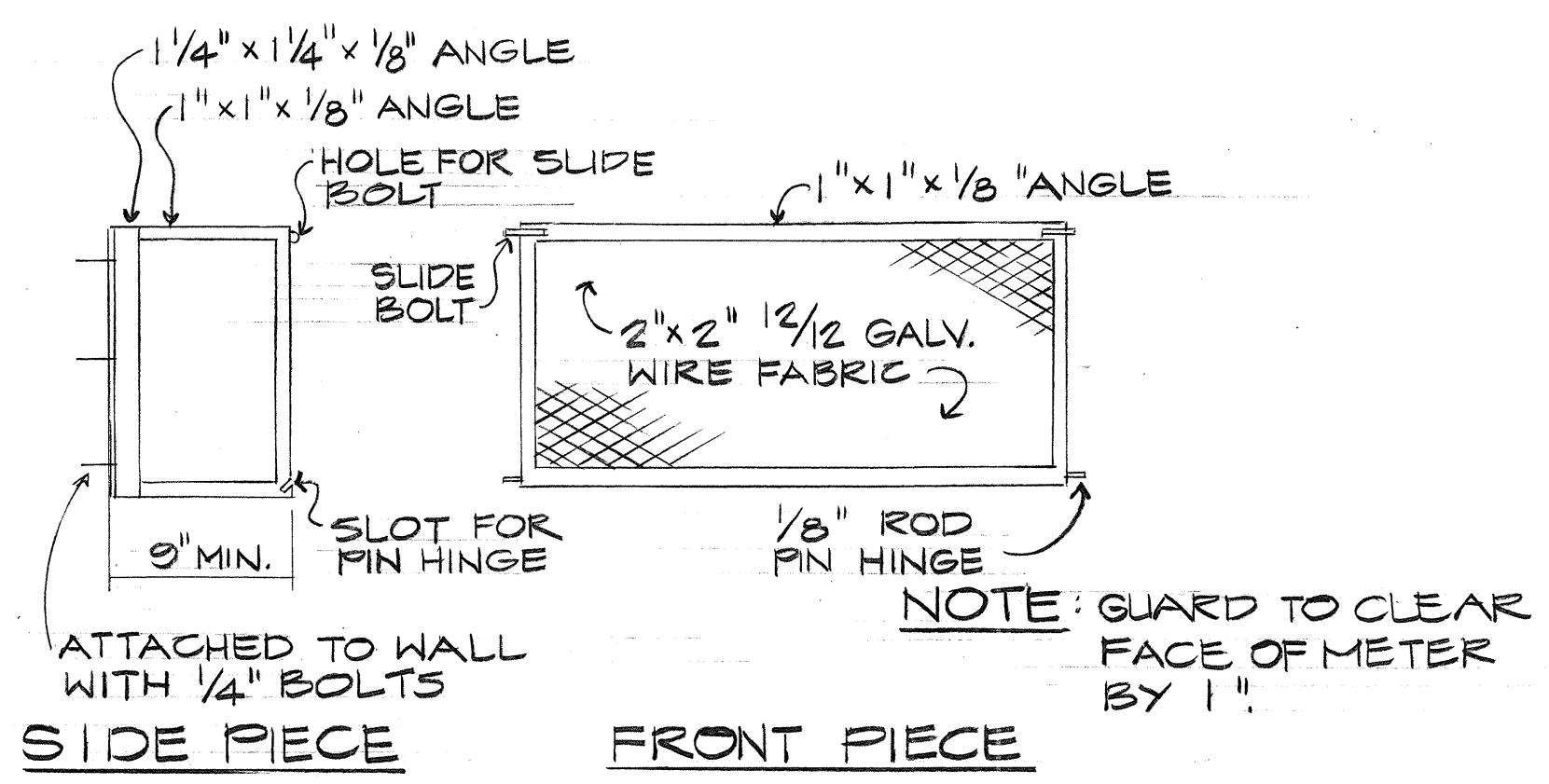
TYPICAL RACEWAY SECTION FOR STREET LIGHT POWER CKT.
NO SCALE **(A E-8)**

- NOTES:
1. CONCRETE JACKET REQUIRED AT ALL ROAD CROSSING.
 2. CONCRETE ENCASED DUCTS SHALL HAVE 3" AROUND ENCASEMENT, 1 1/2" BETWEEN DUCTS AND 3" MIN. SEPARATION BETWEEN ELECTRICAL AND COMMUNICATION DUCTS.
 3. TRAFFIC SIGNAL DUCT SYSTEM SHALL BE INCIDENTAL TO THIS PROJECT.



FRONT VIEW
PAD MOUNTED TRANSFORMER
SCALE: 1/2" = 1'-0" **(E-8)**

- NOTES:
1. FINAL DIMENSION OF CONCRETE PAD, NO. AND LOCATION OF ANCHOR BOLTS TO SUIT EQUIPMENT FURNISHED.
 2. CONCRETE TO BE CLASS "A".
 3. TOP OF CONCRETE PAD TO BE SMOOTH TRUE & LEVEL.
 4. REINFORCING: CLEAN & NEW ROUND DEFORMED BARS ASTM. A15.



METER GUARD RAIL
(E-8)

DATE	11/15/78
SURVEY PLOTTED BY	W. F. CHING
DRAWN BY	W. F. CHING
DESIGNED BY	W. F. CHING
NOTED BY	W. F. CHING
CHECKED BY	W. F. CHING
ORIGINAL PLAN	NO.

CLARENCE W. F. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 1002
HAWAII, U.S.A.

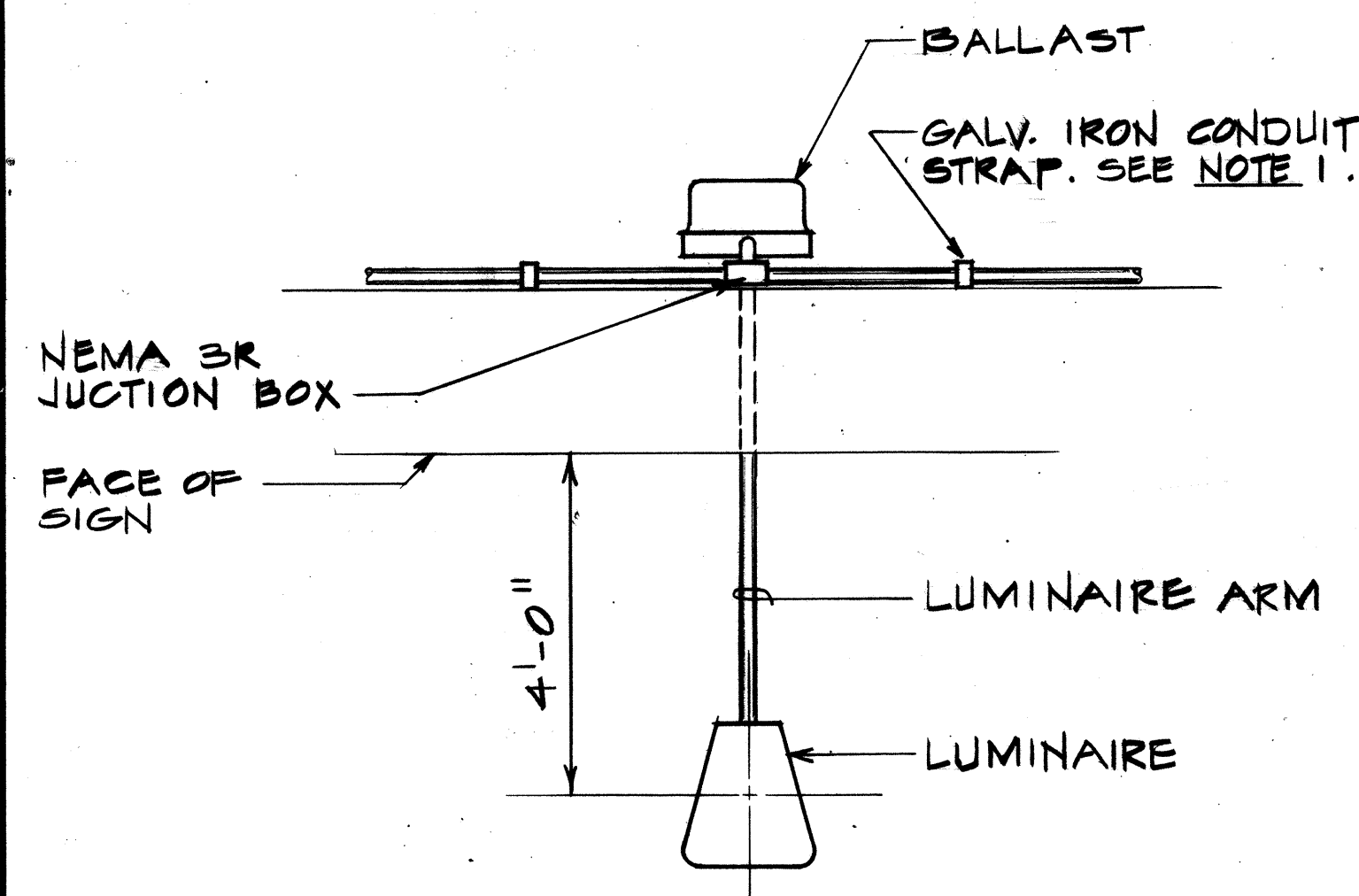
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

**DUCT SECTIONS,
STREET LIGHTING CABINET
& PAD MOUNTED TRANSFORMER**

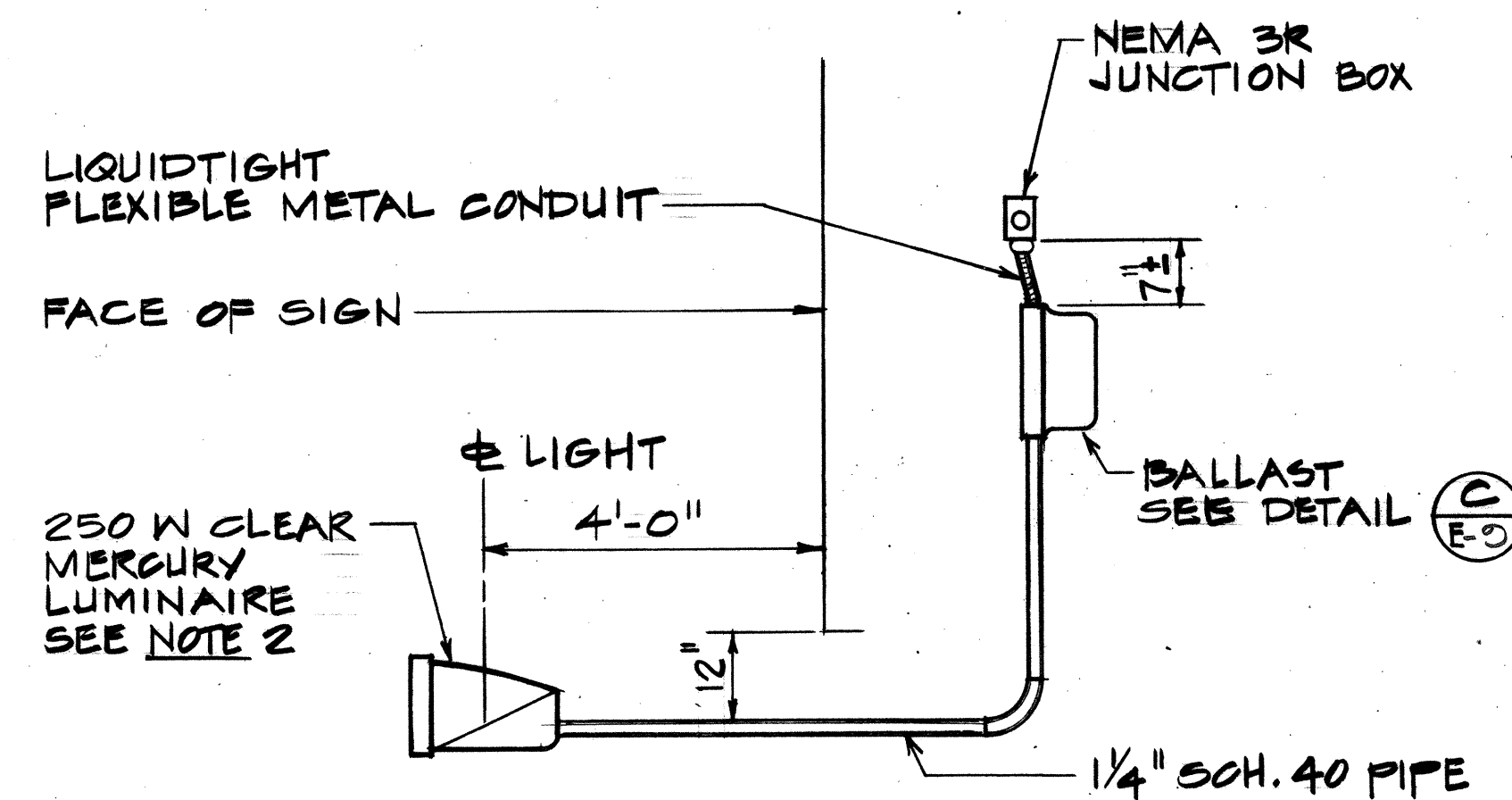
MOANALUA ROAD
PUULOA I.C. TO MIDDLE ST.-UNIT 3A
F.A. Proj. NO. TQ-F-078-1(18)

SCALE: AS SHOWN DATE: NOV. 15, 1978
SHEET NO. E-8 OF 12 SHEETS

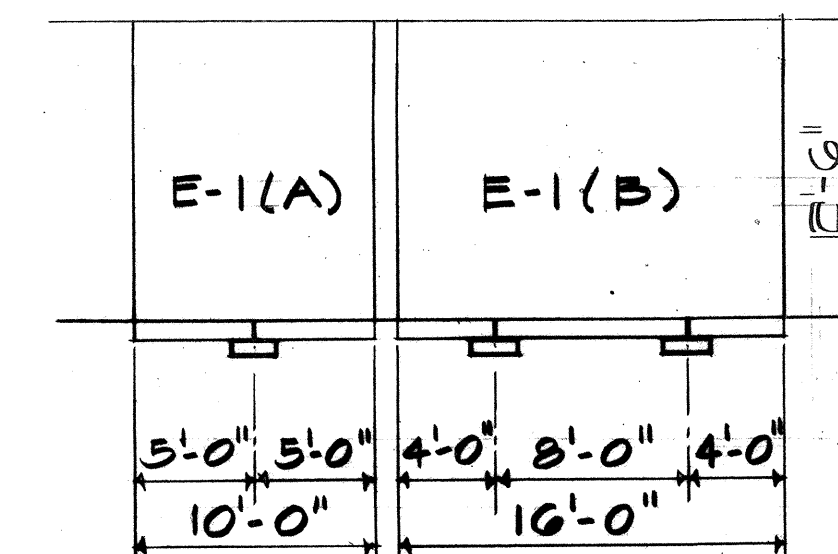
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(18)	1978	163	206



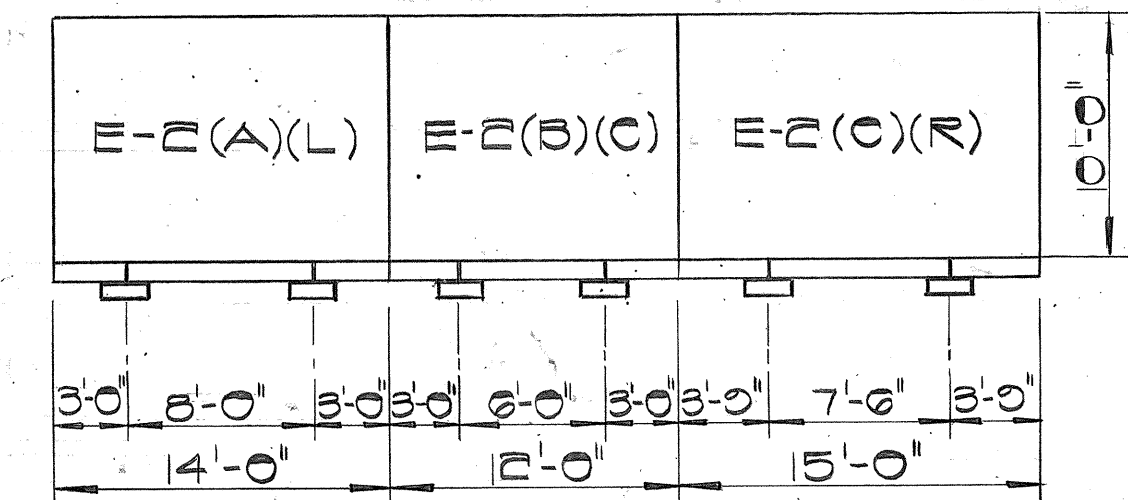
CONDUIT MOUNTING DETAIL (A)
NO SCALE



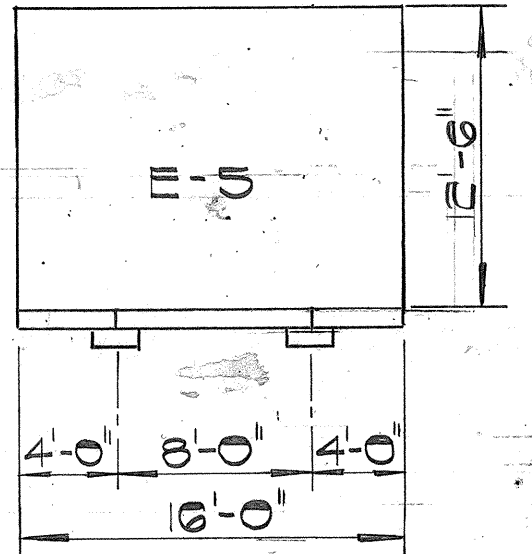
LUMINAIRE MOUNTING DETAIL (B)
NO SCALE



SIGN "E-1"
K.S. STA. 10+75

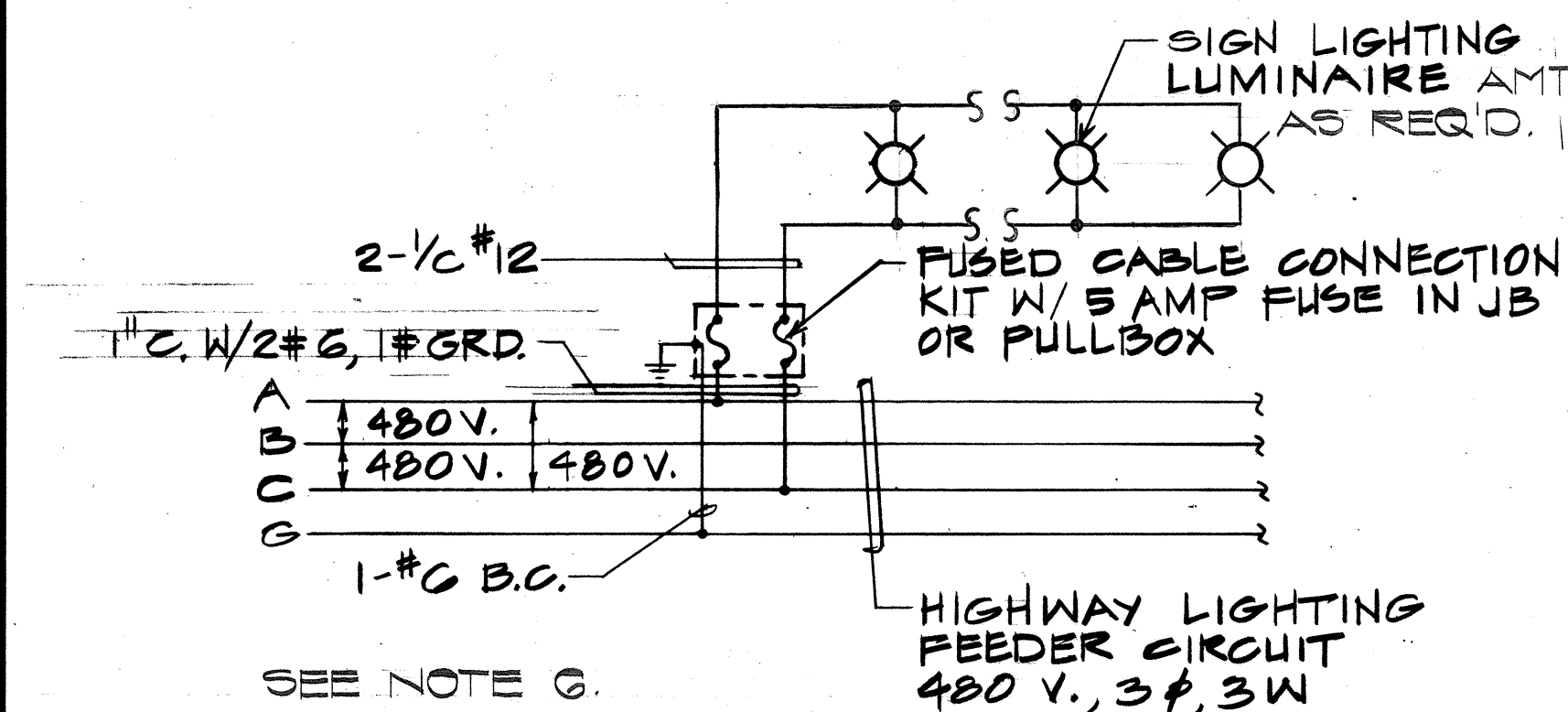


SIGN "E-2"
INBOUND Q. STA. 310+00

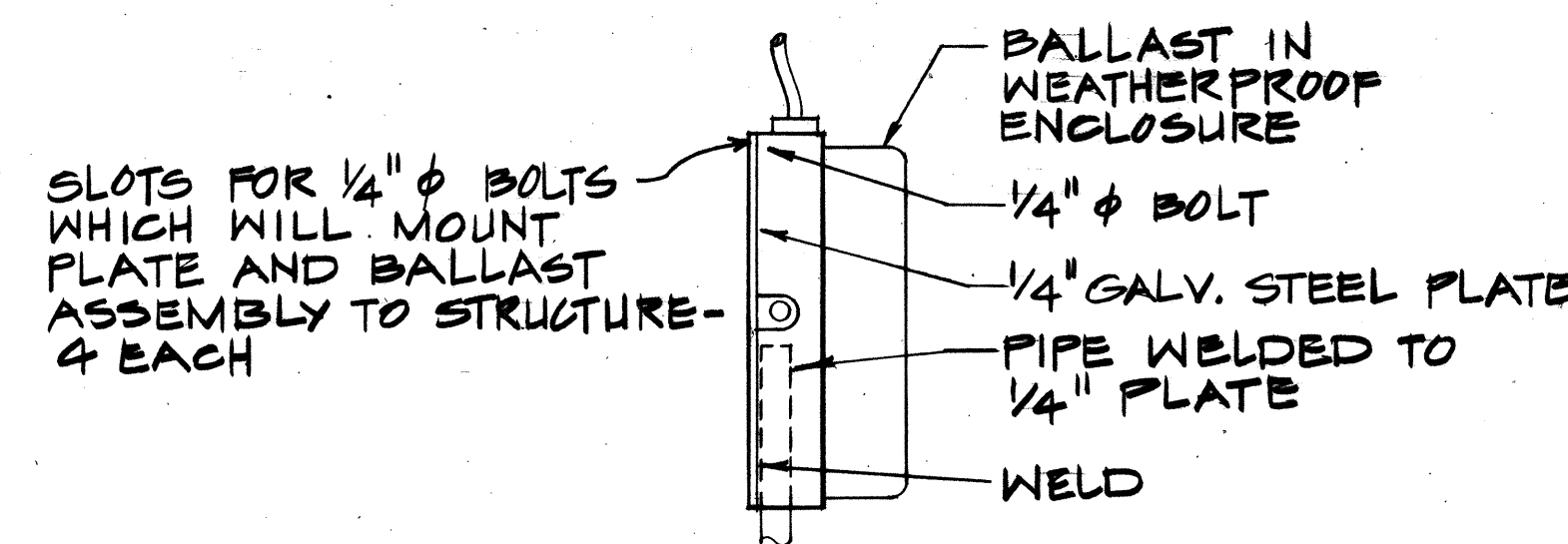


SIGN "E-5"
OUTBOUND E. STA. 323+50

LUMINAIRE SPACING DETAIL (E)
NO SCALE



SIGN LIGHTING WIRING DIAGRAM (D)
NO SCALE



BALLAST-STEEL PLATE DETAIL (C)
NO SCALE

NOTES: 1. SUPPORT CONDUITS AT 10'± MAX. INTERVALS. SUPPORT CONDUITS 3'-0" MAX. FROM JUNCTION BOX.

2. UNIFORMITY RATIO 3.1/1 WHEN SPACED 10'-0" O.C. WHEN RETROREFLECTING SIGN IS USED (1200' VIEWING DISTANCE). MIN. AVG. F+1.17.

3. PIPE AND STEEL PLATE ASSEMBLY SHALL BE CAPABLE OF SUPPORTING LUMINAIRE AND BALLAST WITHOUT DAMAGE AGAINST 100 MPH WINDS. BOLTS ATTACHING BALLAST TO STEEL PLATE AND STEEL PLATE TO STRUCTURE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND SHALL SUPPORT THE LUMINAIRE, BALLAST PIPE AND STEEL PLATE ASSEMBLY WITHOUT DAMAGE AGAINST 100 MPH WINDS.

4. CONDUITS SHALL BE 3/4" GALVANIZED RIGID STEEL.

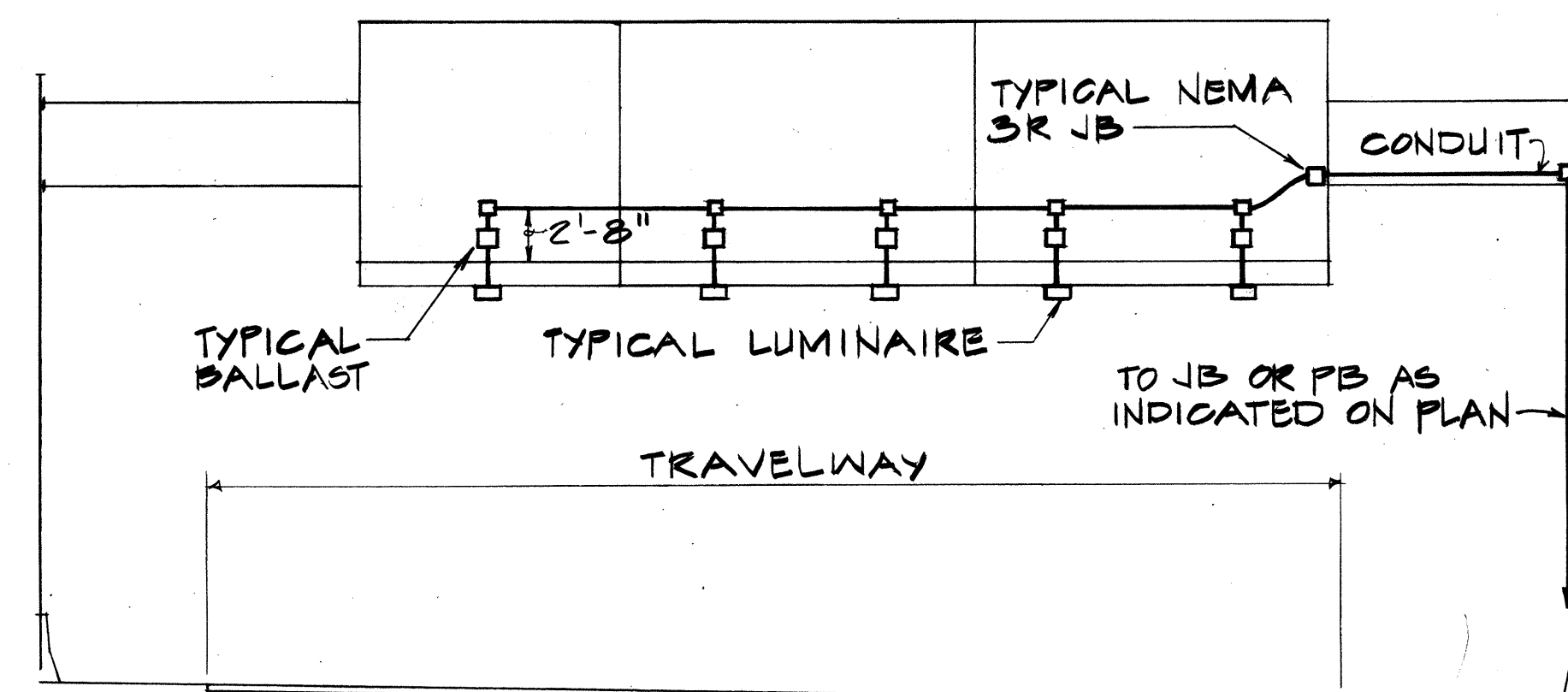
5. ALL EQUIPMENT SHALL BE NEMA 3R OUTDOOR TYPE.

6. FOR CONNECTION OF SIGN LIGHTING TO HIGHWAY LIGHTING FEEDER CIRCUIT SEE STREET LIGHTING ONE-LINE DIAGRAM.

7. LUMINAIRE: ASSEMBLY. PRISMATIC REFRACTOR THERMAL SHOCK RESISTANT GLASS W/ RETRODISPERSING REFLECTOR FOR UNIFORM SIGN LUMINANCE.

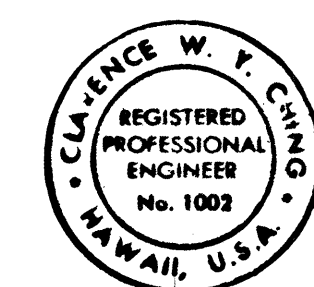
MAIN HOUSING CAST ALUMINUM SLIPFITTER TYPE.

BALLAST BACK MOUNTED, 480V, REGULATOR TYPE W/HPE ABOVE 90 %, RIF SUPPRESSION TYPE



SEE NOTES 4 & 5.

TYPICAL CONDUIT ROUTING DETAIL (E)
NO SCALE



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LIGHTING DETAILS

MOANALUA ROAD
PUULOA I.C. TO MIDDLE ST. - UNIT 3A
F.A. PROJ. NO. TQ-F-078-1 (18)

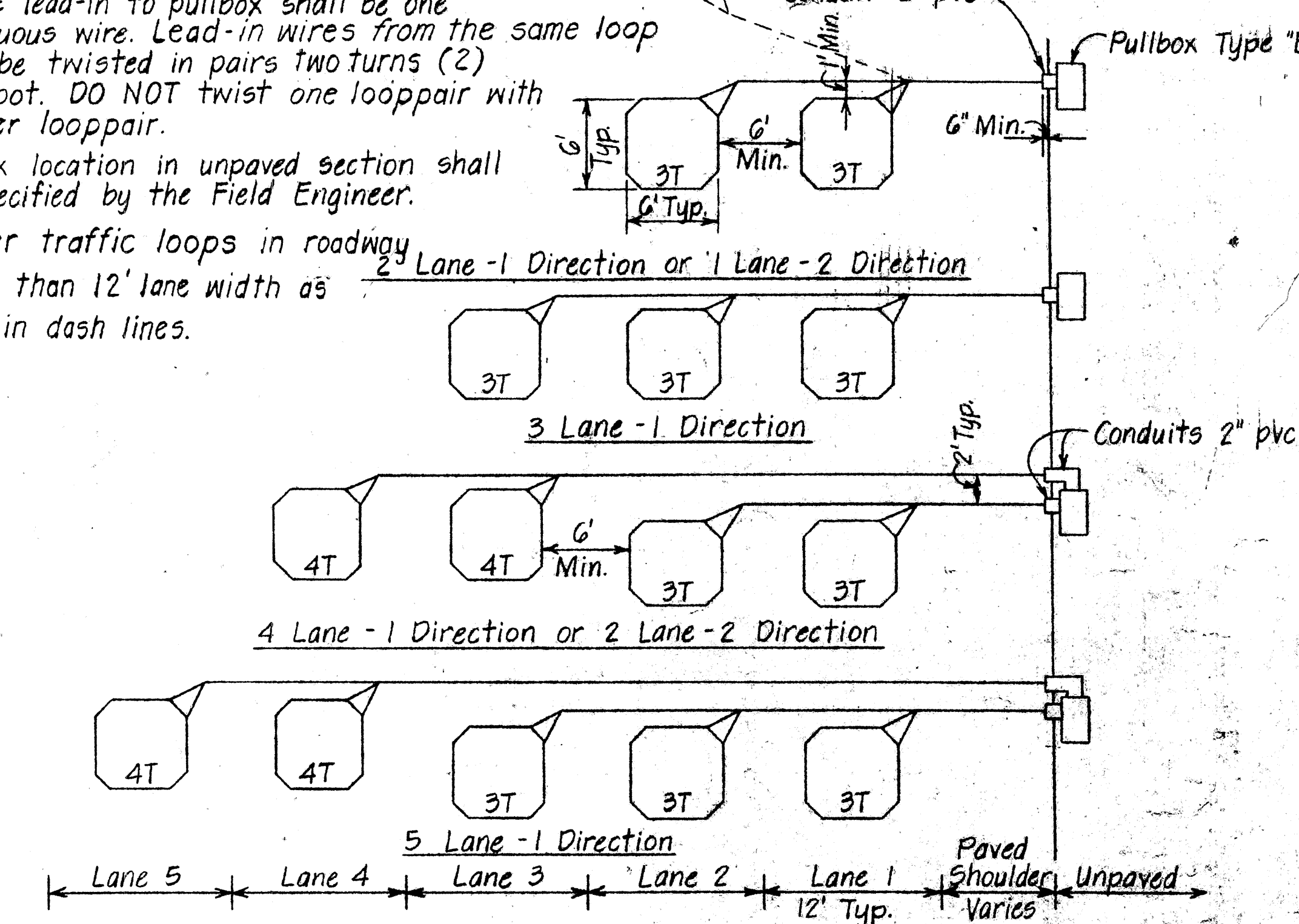
SCALE: AS SHOWN DATE: NOV. 15, 1978
SHEET No. E-0 OF 12 SHEETS

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

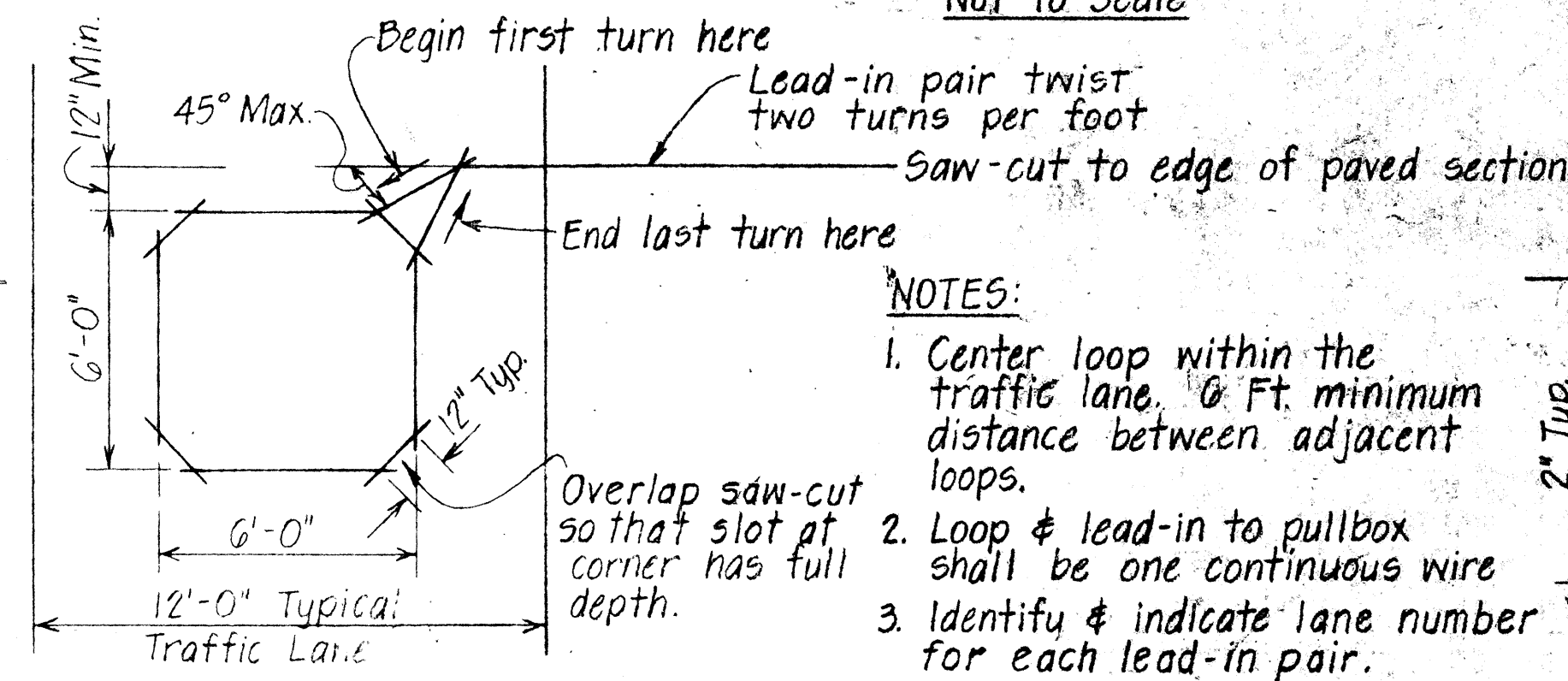
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10-P078-108	1978	164	266

LOOP LAYOUT NOTES:

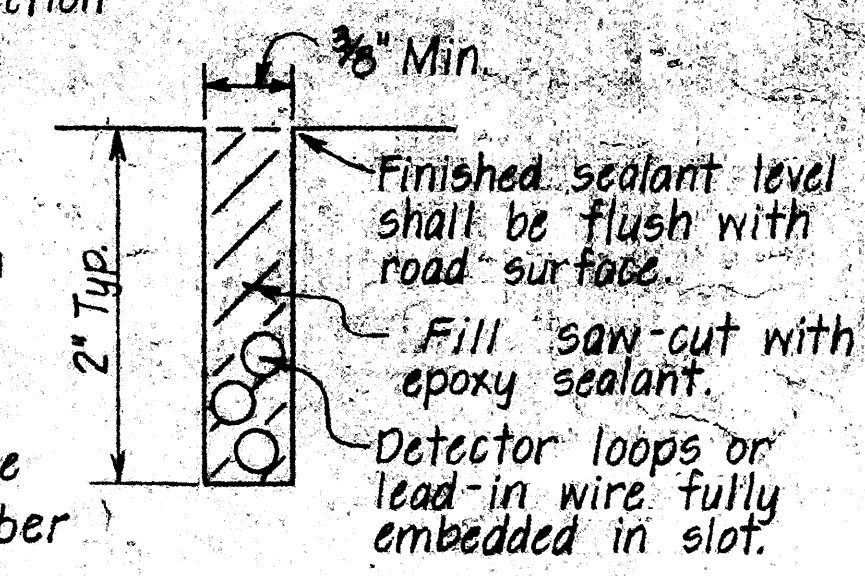
1. Detector loop shall consist of three turns (3T) or four turns (4T) of 1/2", 14 AWG, RHW-USE-XLP wire embedded in a 3/8" minimum saw-cut.
2. Loop & lead-in to pullbox shall be one continuous wire. Lead-in wires from the same loop shall be twisted in pairs two turns (2) per foot. DO NOT twist one loop pair with another loop pair.
3. Pullbox location in unpaved section shall be specified by the Field Engineer.
4. Stagger traffic loops in roadway w/less than 12' lane width as shown in dash lines.



TYPICAL LOOP LAYOUT
Not to Scale

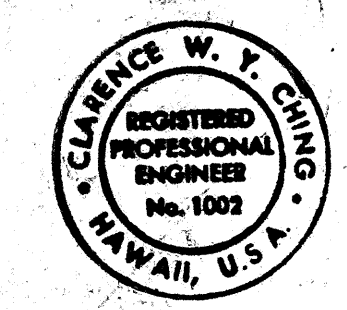


TYPICAL LOOP AND SLOT
Not to Scale



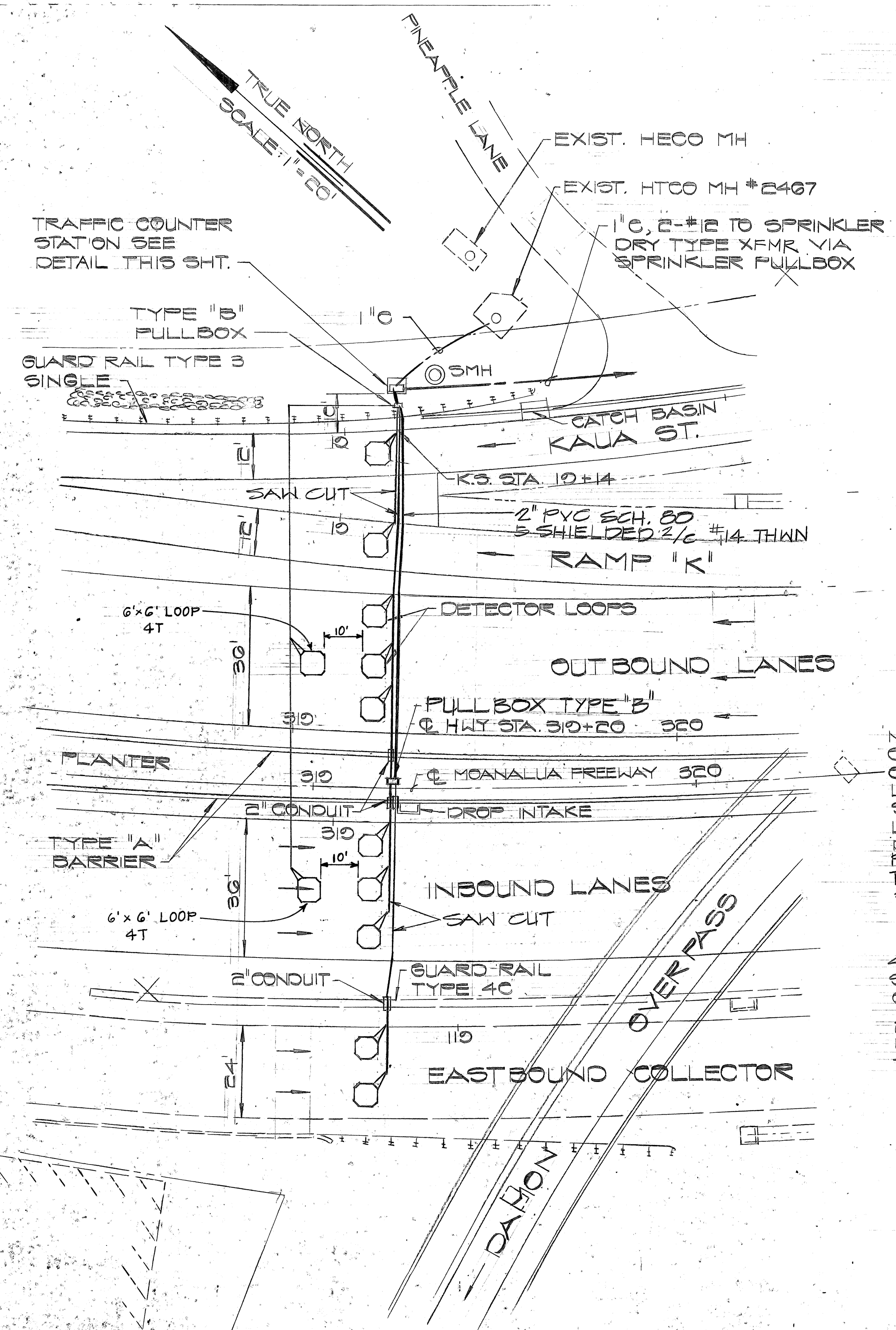
TYPICAL SAW-CUT
Not to Scale

- NOTES:
1. Center loop within the traffic lane, 6 Ft. minimum distance between adjacent loops.
 2. Loop & lead-in to pullbox shall be one continuous wire.
 3. Identify & indicate lane number for each lead-in pair.
 4. Identify & indicate lead-in wire to first turn.
 5. Clean saw cut thoroughly before filling with epoxy sealant.
 6. All PVC conduits used shall be type schedule 80.

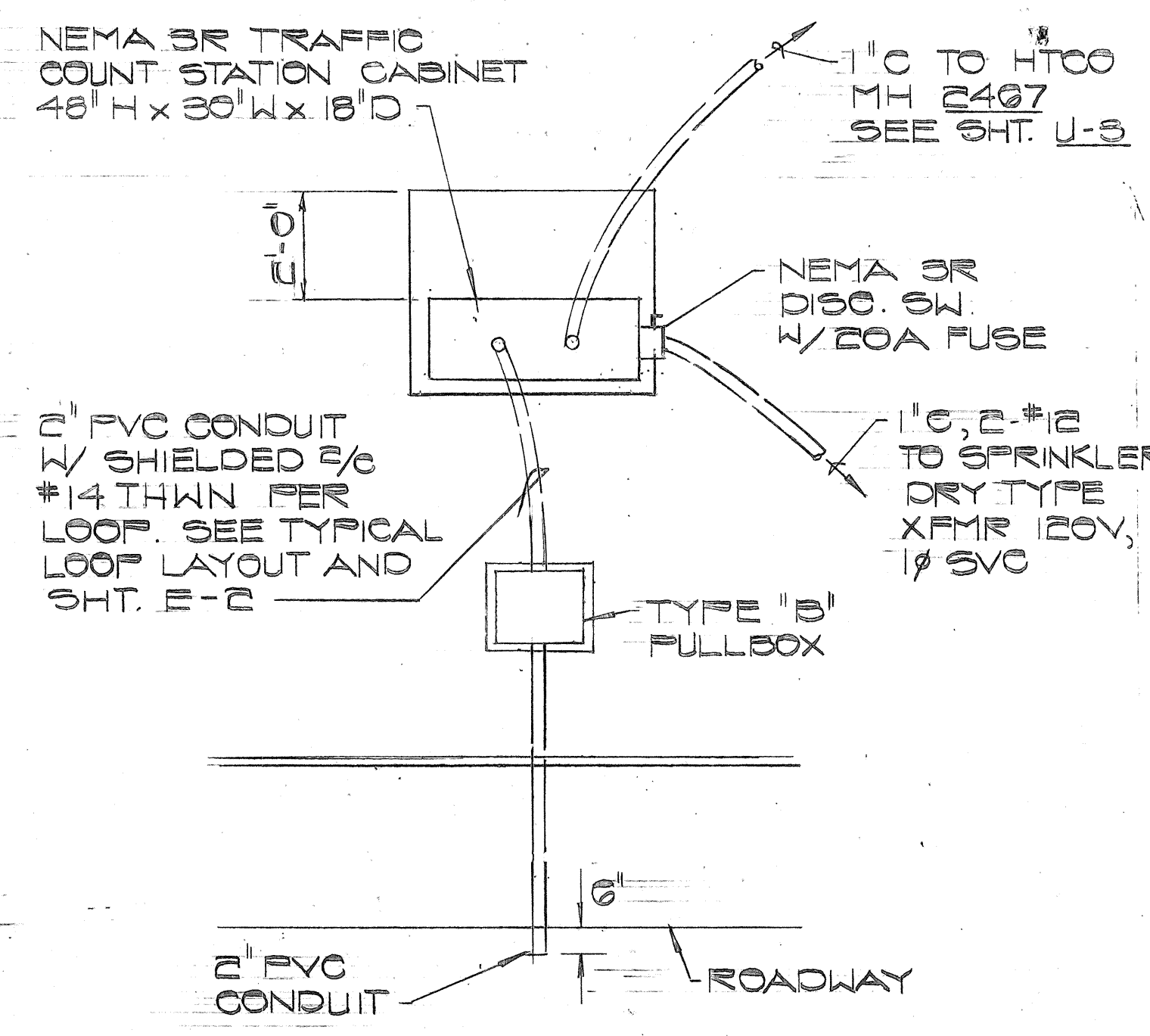


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

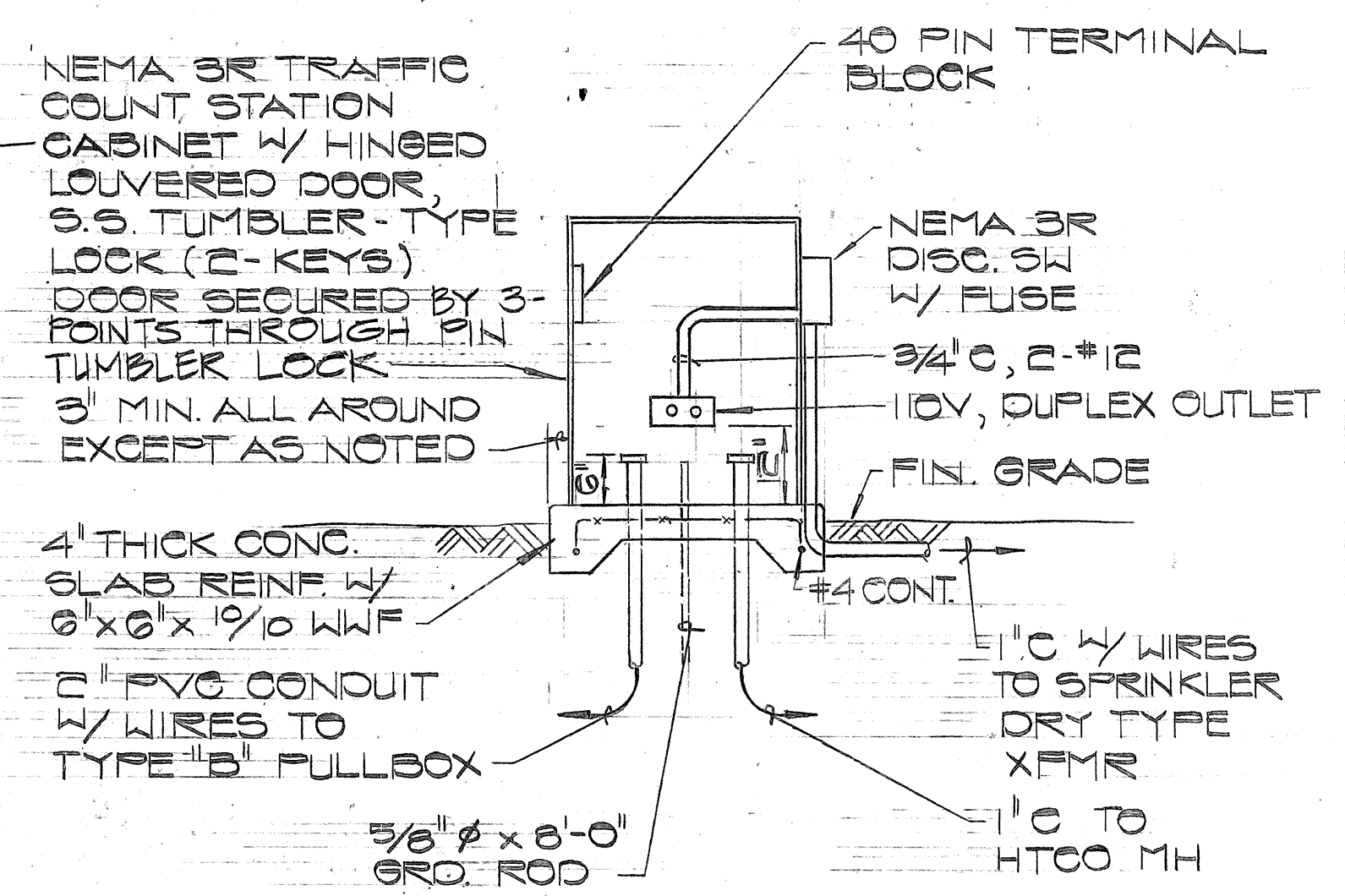
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL DETAILS
TRAFFIC COUNT STATION
FOR
AC OR DC DETECTOR LOOP INSTALLATION



LAYOUT PLAN
SCALE: 1"=20'

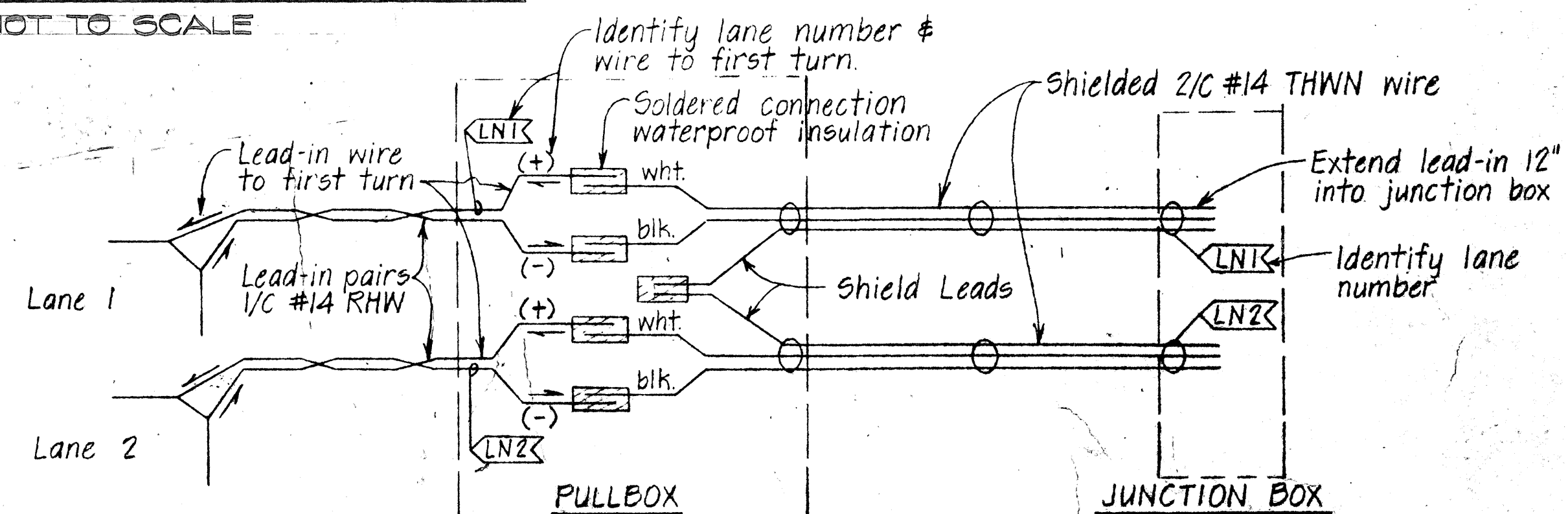


PLAN



SECTION

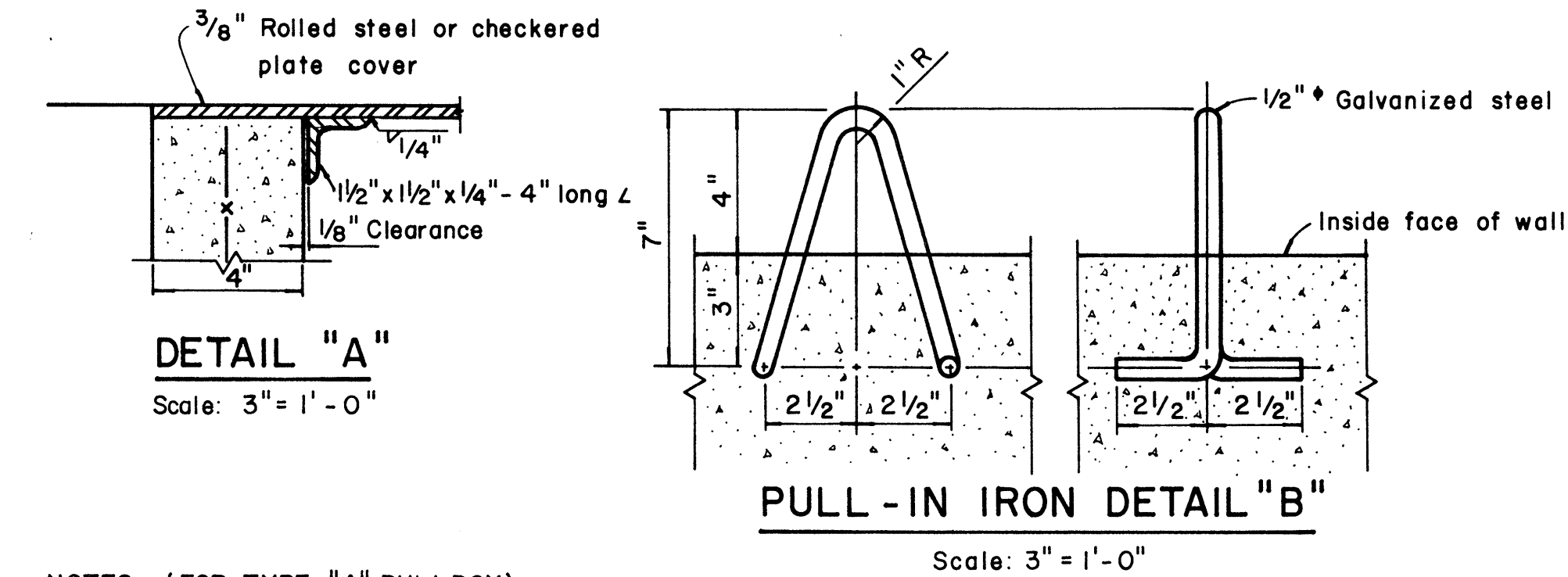
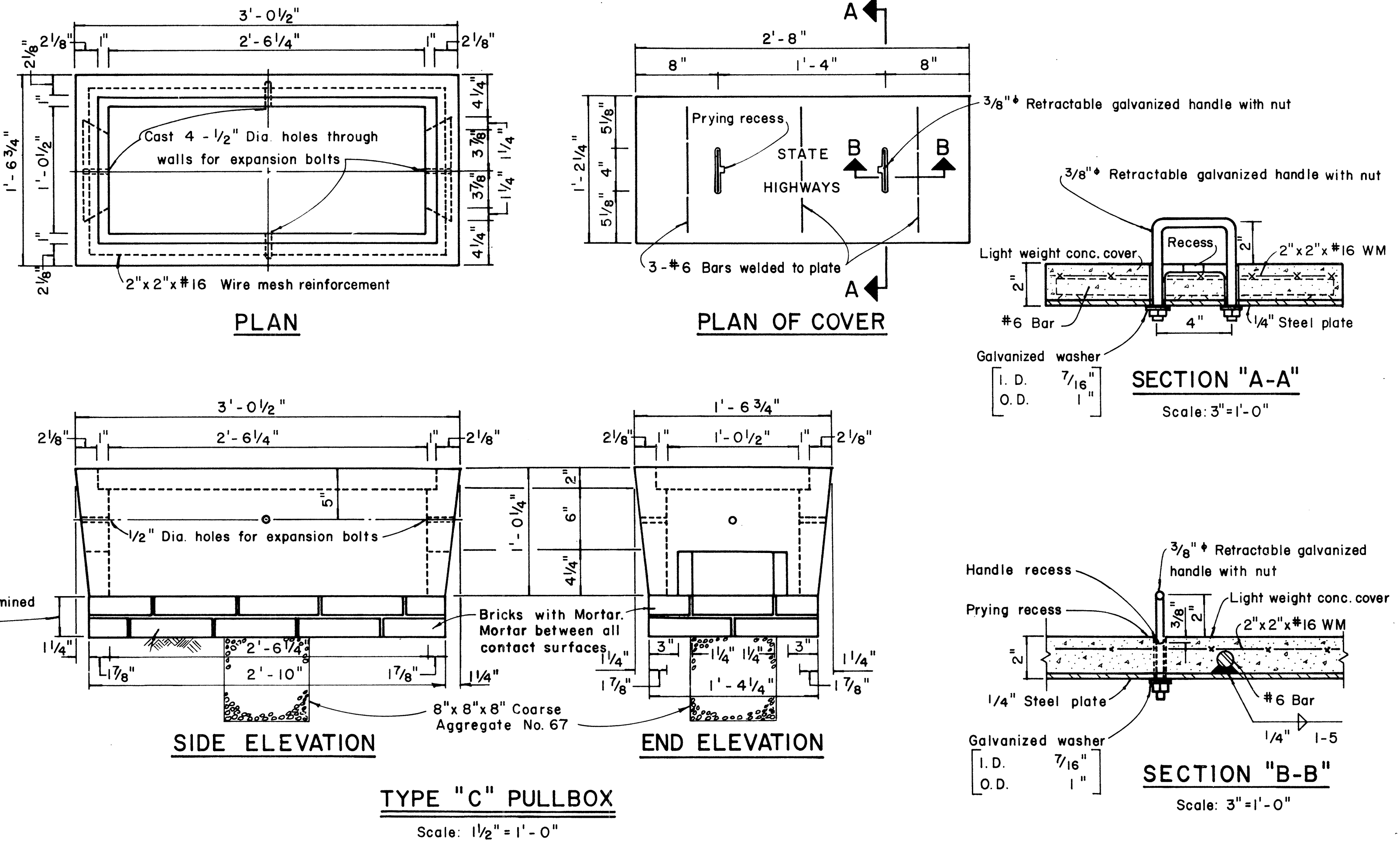
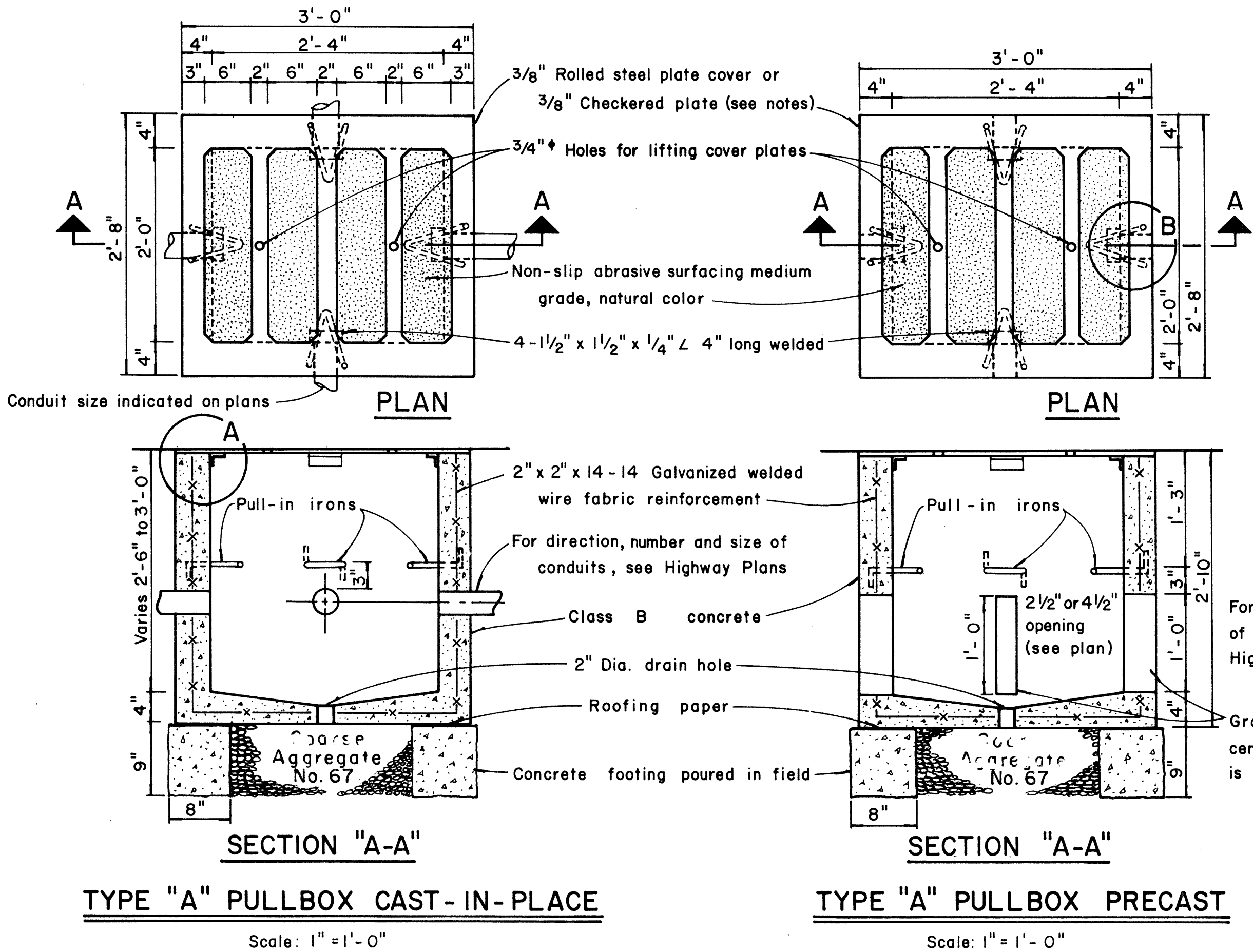
TRAFFIC COUNT STATION
NOT TO SCALE



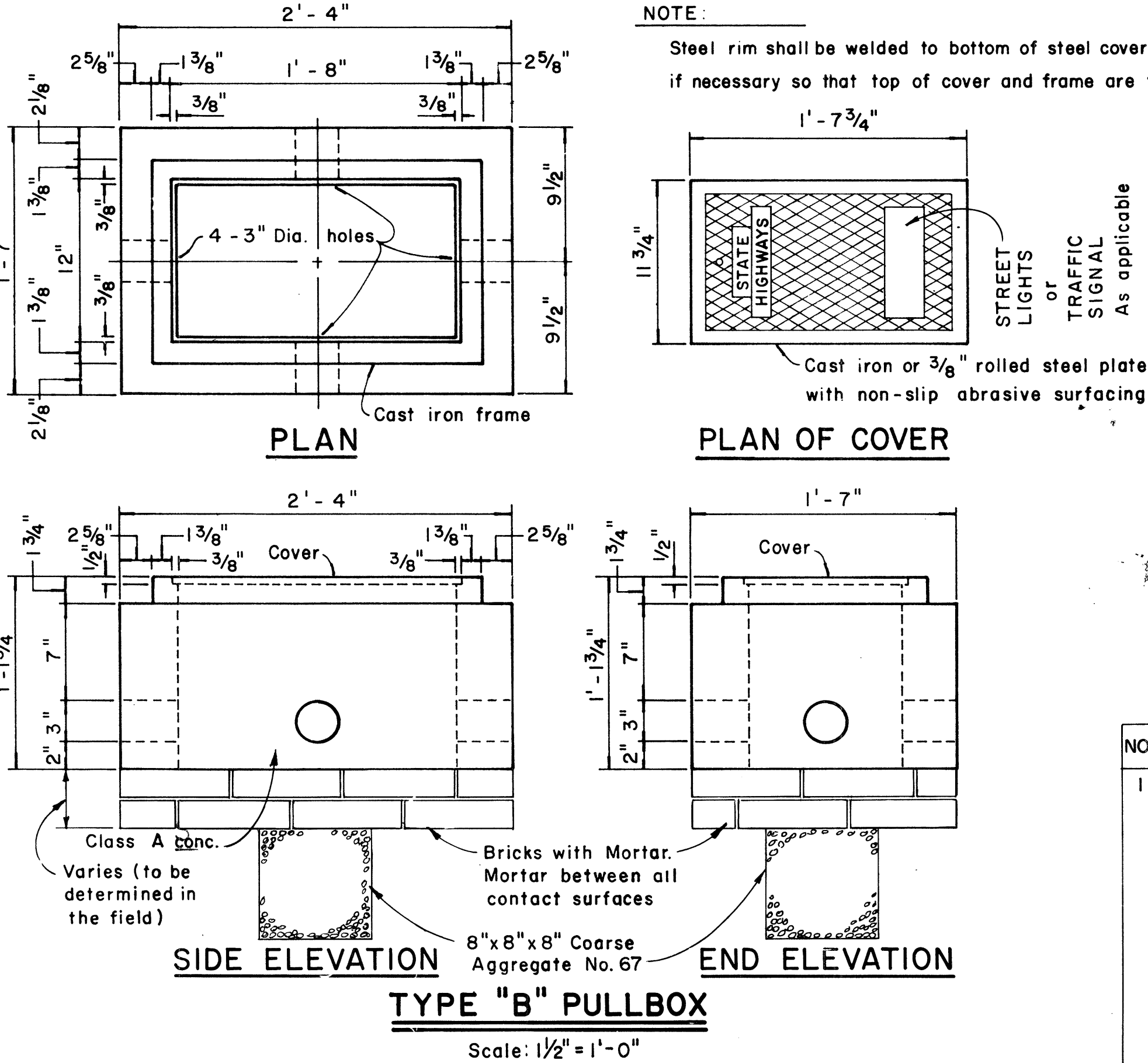
JUNCTION BOX, PULLBOX WIRING AND IDENTIFICATION

DATE	6-15-77
REVISION	3-18-77
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	16-F-018-1(18)	1978	165	266



- 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.



NOTE:

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

APPROVAL RECOMMENDED:

Enrique Tanaka 12/69 DATE

TRAFFIC ENGINEER

APPROVED:

James J. J. J. 12-30-69 DATE

ASSISTANT CHIEF, ENGINEERING

NO.	REVISION	APPROVED BY	DATE
1	Revised Type B & C Pullbox details	H.T.	3-5-76

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

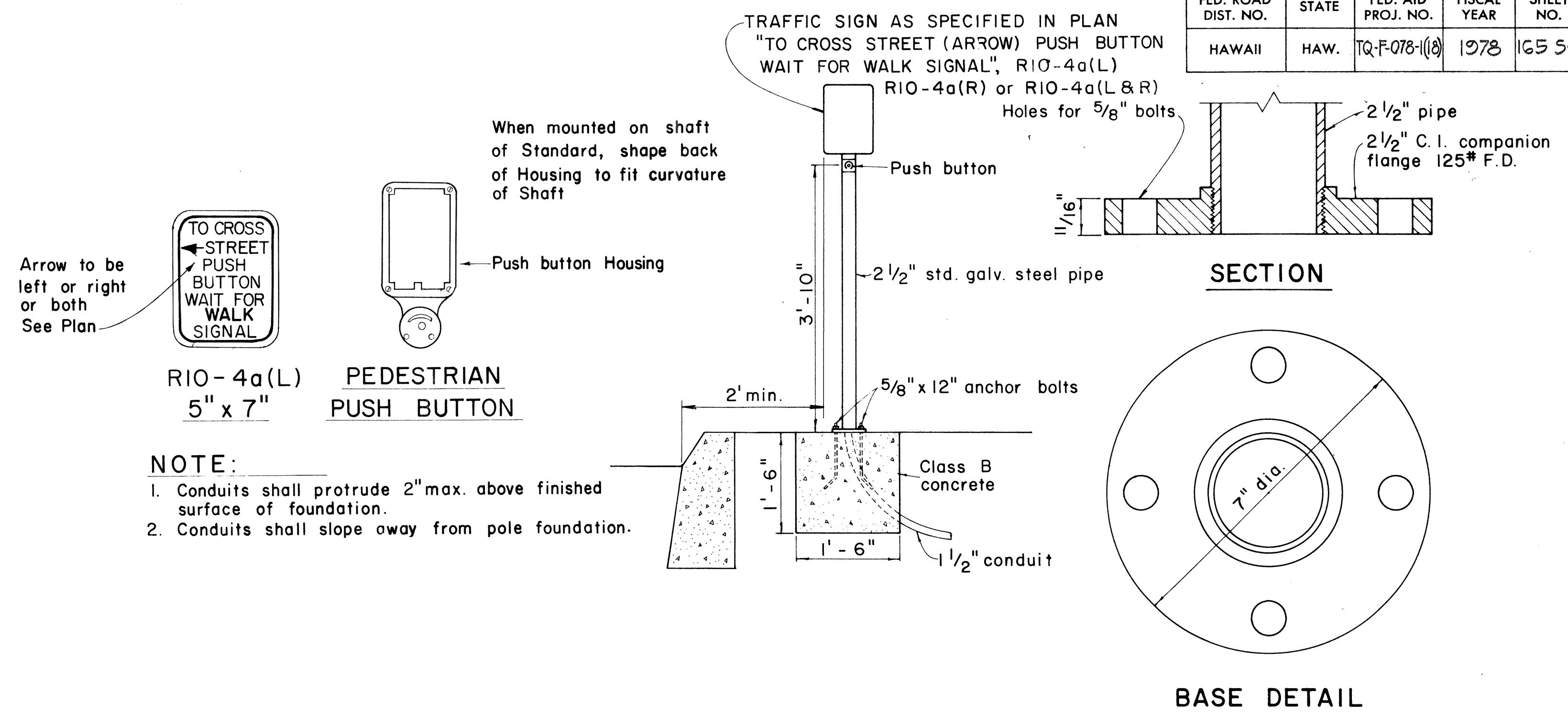
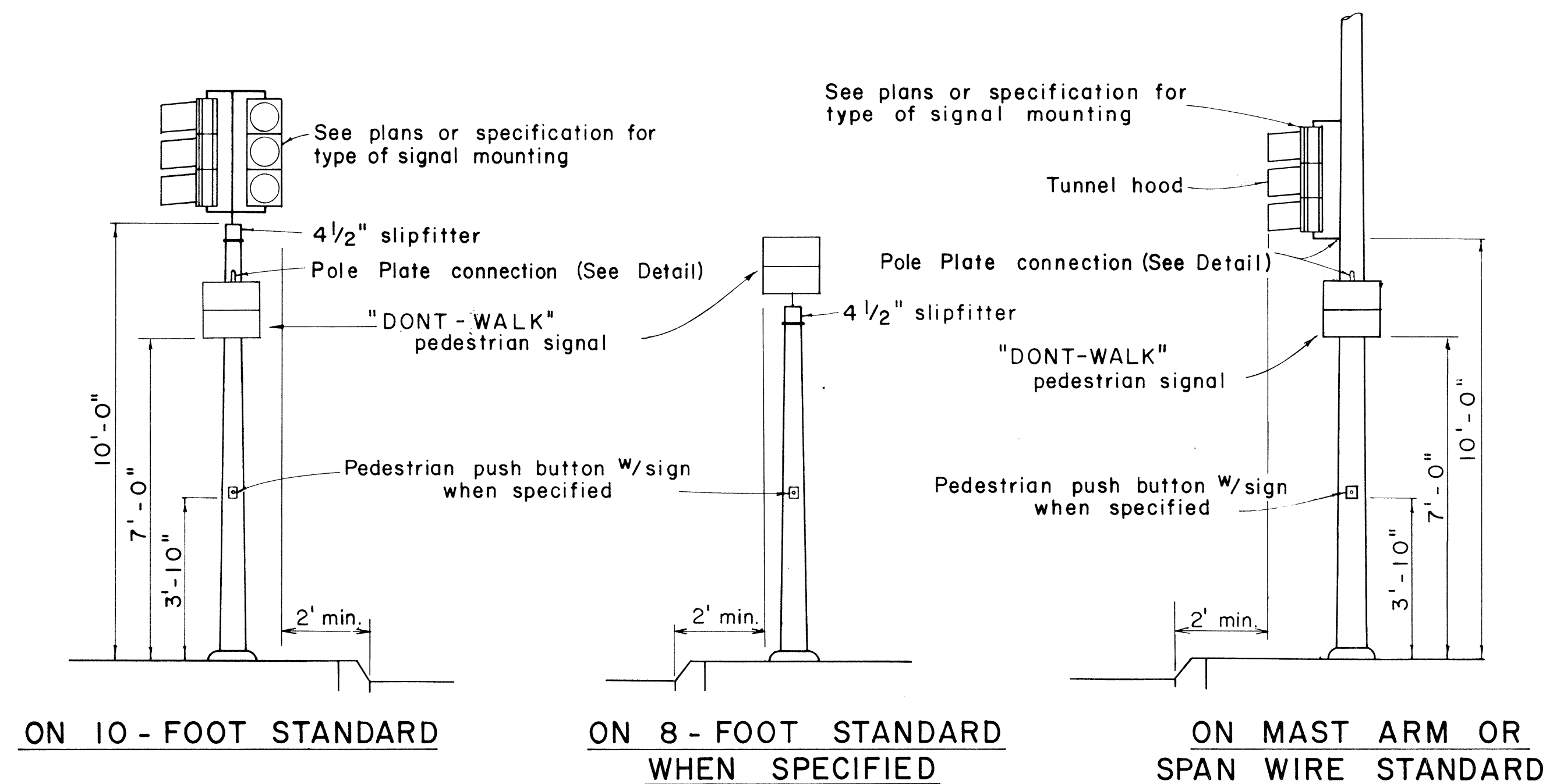
PULLBOXES

Scale as noted Date: NOV. 15, 1978

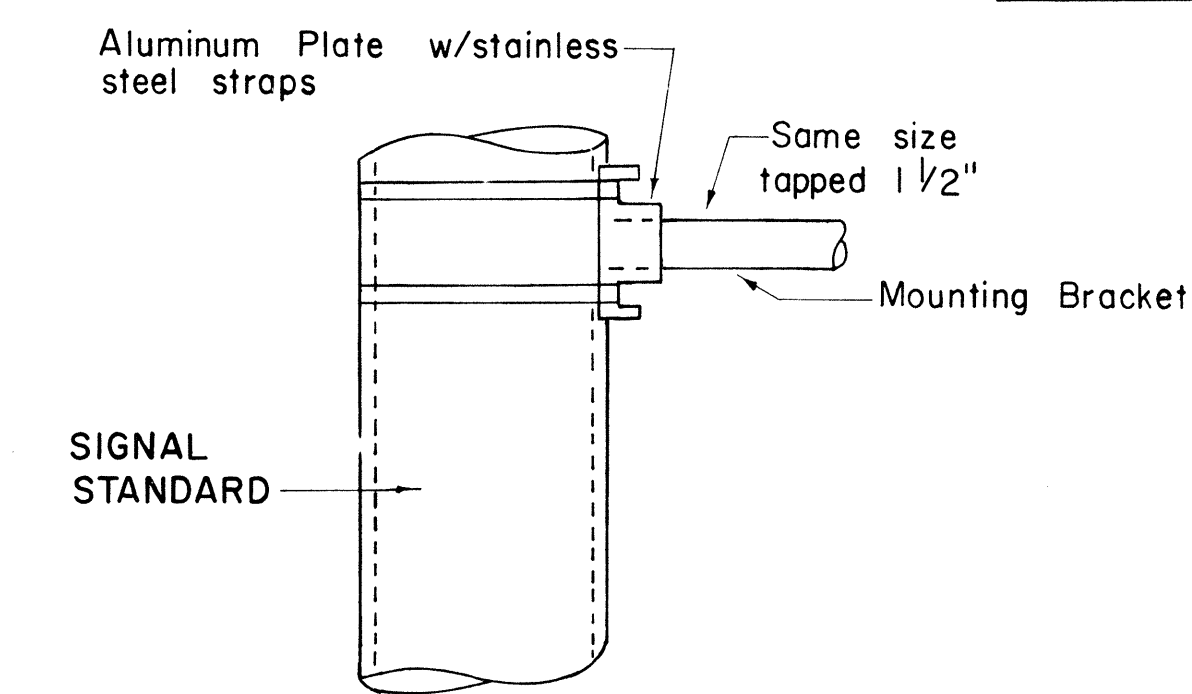
SHEET No. 11 OF 12 SHEETS DT 401

DATE	12/69
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

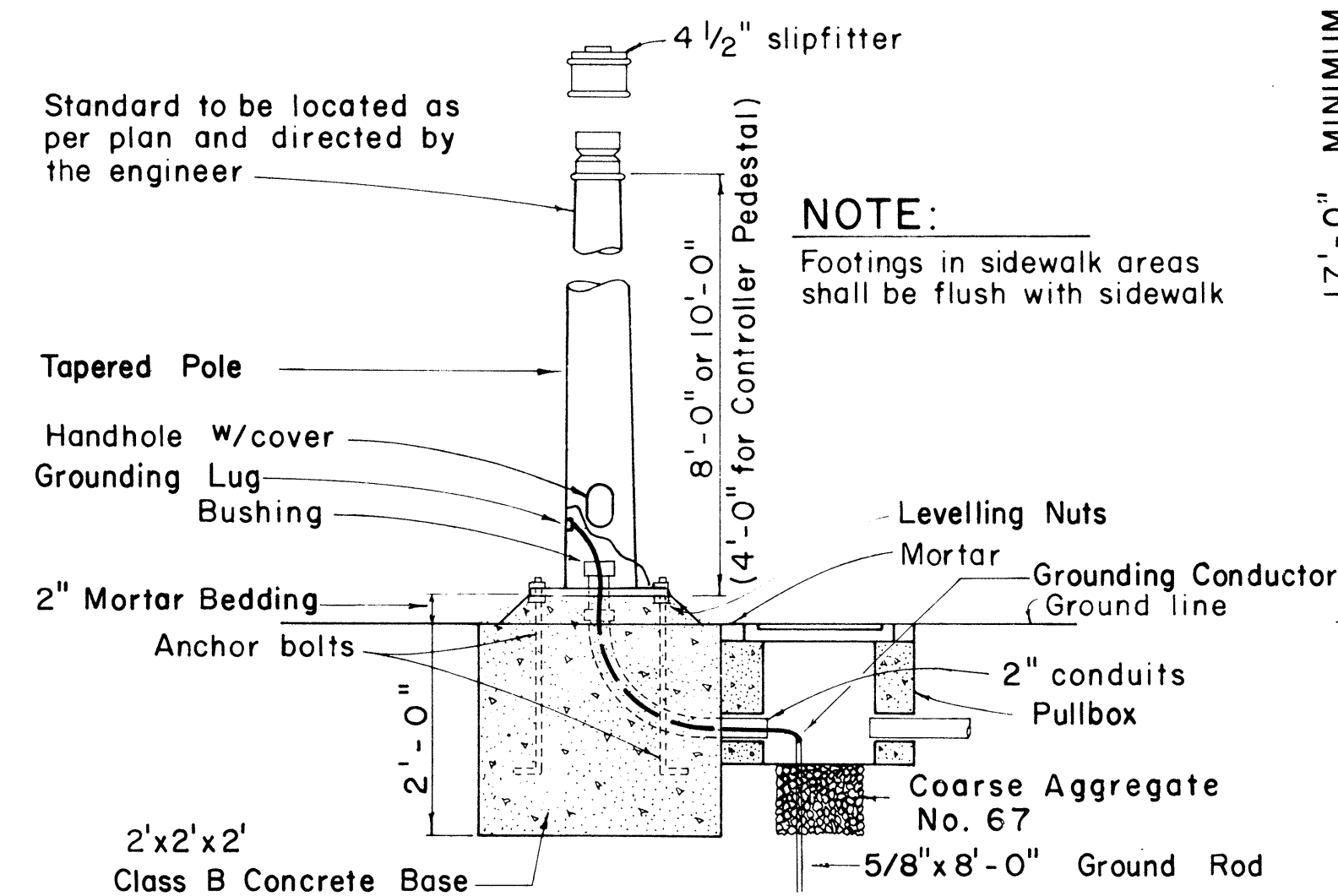
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(18)	1978	165 5-1	266



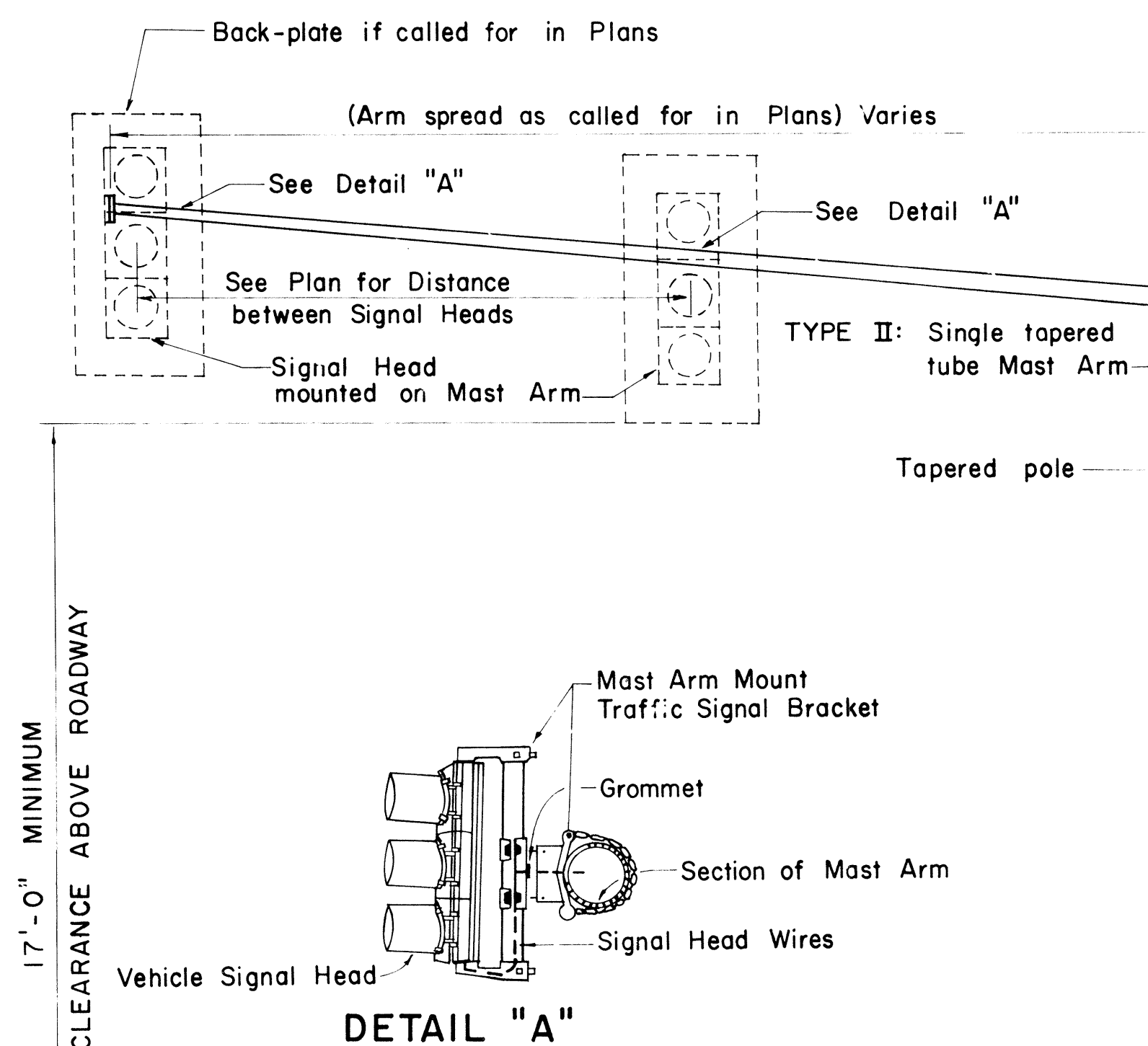
TYPICAL EQUIPMENT MOUNTINGS



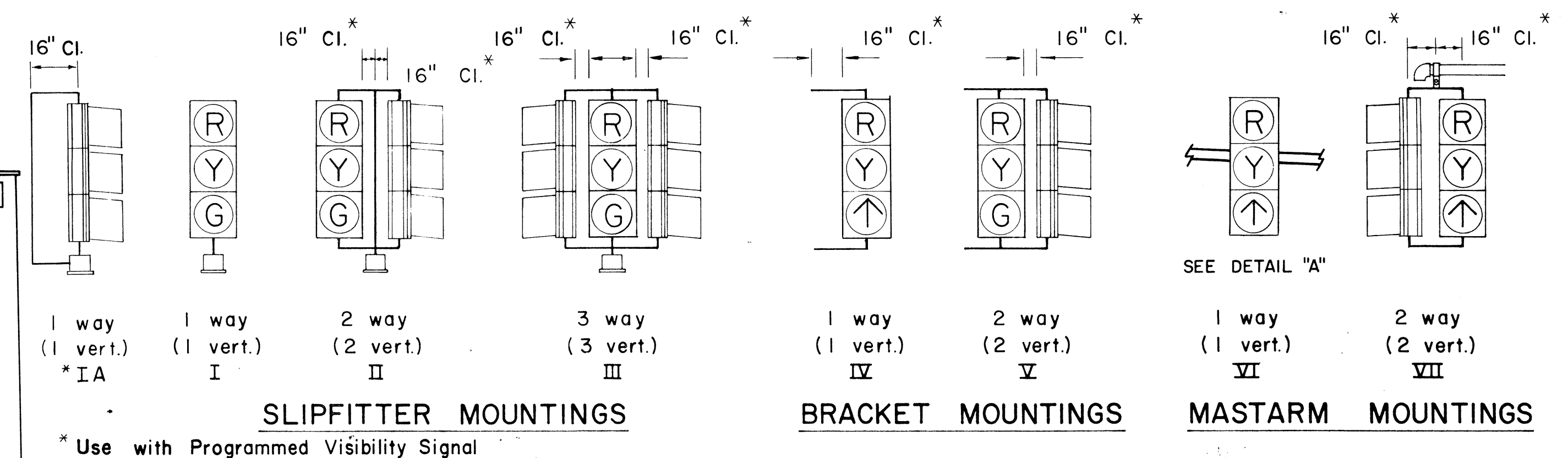
DETAIL OF POLE PLATE CONNECTIONS



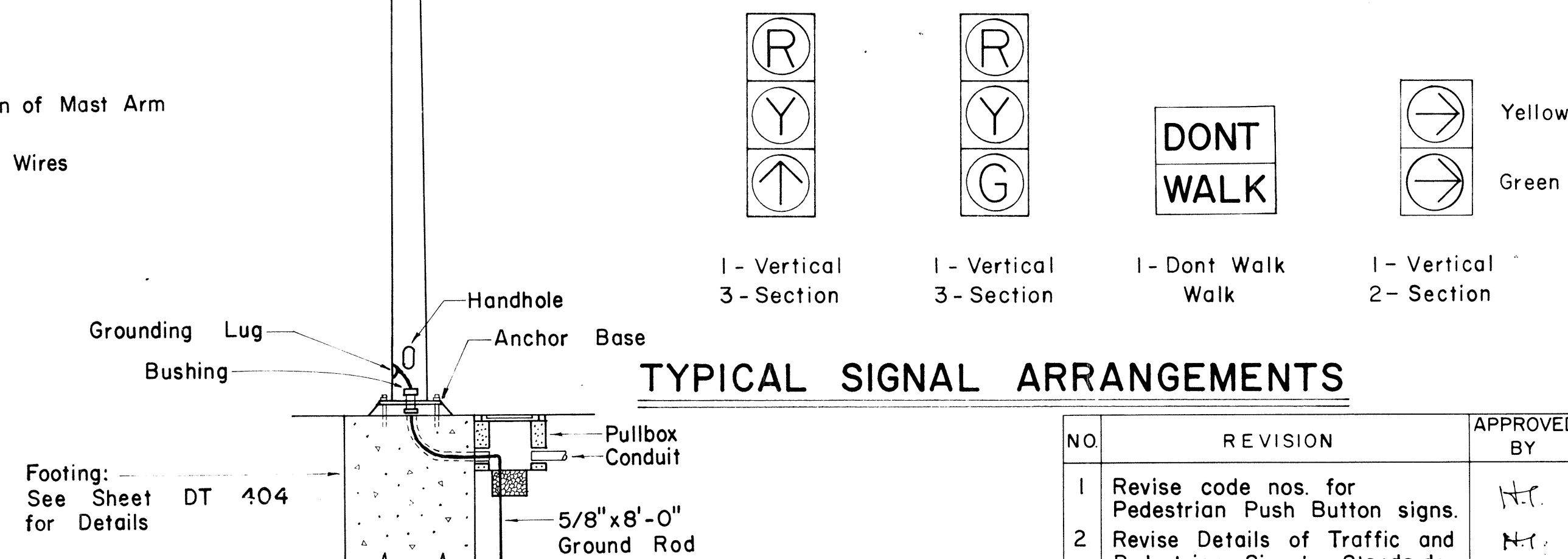
TYPE I SIGNAL STANDARD OR CONTROLLER PEDESTAL AND FOOTING



TYPE II MAST ARM AND STANDARD



TYPICAL VEHICULAR AND PEDESTRIAN SIGNAL MOUNTINGS



TYPICAL SIGNAL ARRANGEMENTS

NO	REVISION	APPROVED BY	DATE
1	Revise code nos. for Pedestrian Push Button signs.	H.T.	3/23/
2	Revise Details of Traffic and Pedestrian Signals, Standards and Pedestrian Push Button and Signs.	H.T.	3/5/1
3	Revise signal indications.	H.T.	9/22/
4	Remove Note No. 3 & Revise clearance and dimension.	H.T.	9/19/1

APPROVAL RECOMMENDED:
Eichi Tanaka 12/29/69
 TRAFFIC ENGINEER DATE

Shahid Ali 12/30/69
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TRAFFIC SIGNAL SYSTEM

MISCELLANEOUS DETAILS

Not to Scale

SHEET No. OF SHEETS DT 400

C.O. 165 S-1

The diagram illustrates two methods of connecting a cable to a pull-box:

- SINGLE:** A single cable is shown entering the pull-box. The connection is labeled "Lead-in Cable" and "Soldered & Taped Waterproof". The pull-box is labeled "Pull-box".
- SERIES:** Multiple cables are shown entering the pull-box. The connection is labeled "Lead-in Cable", "Soldered & Taped Waterproof", and "Additional Loops as called for in the Plans". The pull-box is labeled "Pull-box".

TYPICAL SERIES PARALLEL LOOP CONNECTION

No Scale

[illegible][illegible]

1. All conduits under roadways shall be steel or PVC schedule 80. All other conduits shall be steel or PVC schedule 40.

[illegible]

Diagram illustrating the repair patch dimensions and components:

- Top of Pavement
- 3/8" Min.
- 2" Min.
- Fill with Epoxy
- Detector Loop Wires as required

APPROVED : Hubert L. Zaleski 3-5-76
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

Scale : As Noted

SHEET No. E-12 OF 12 SHEETS DT 405