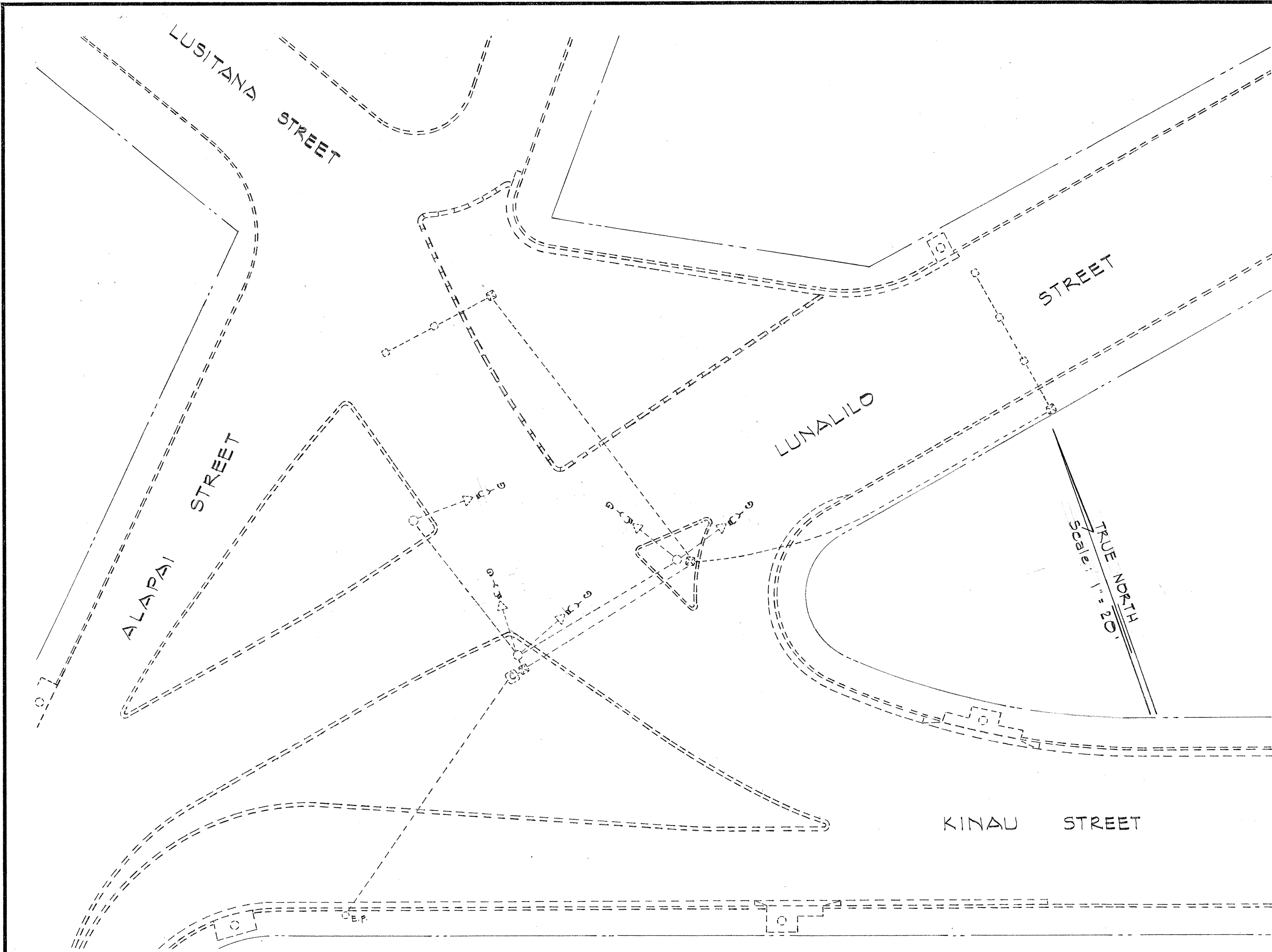
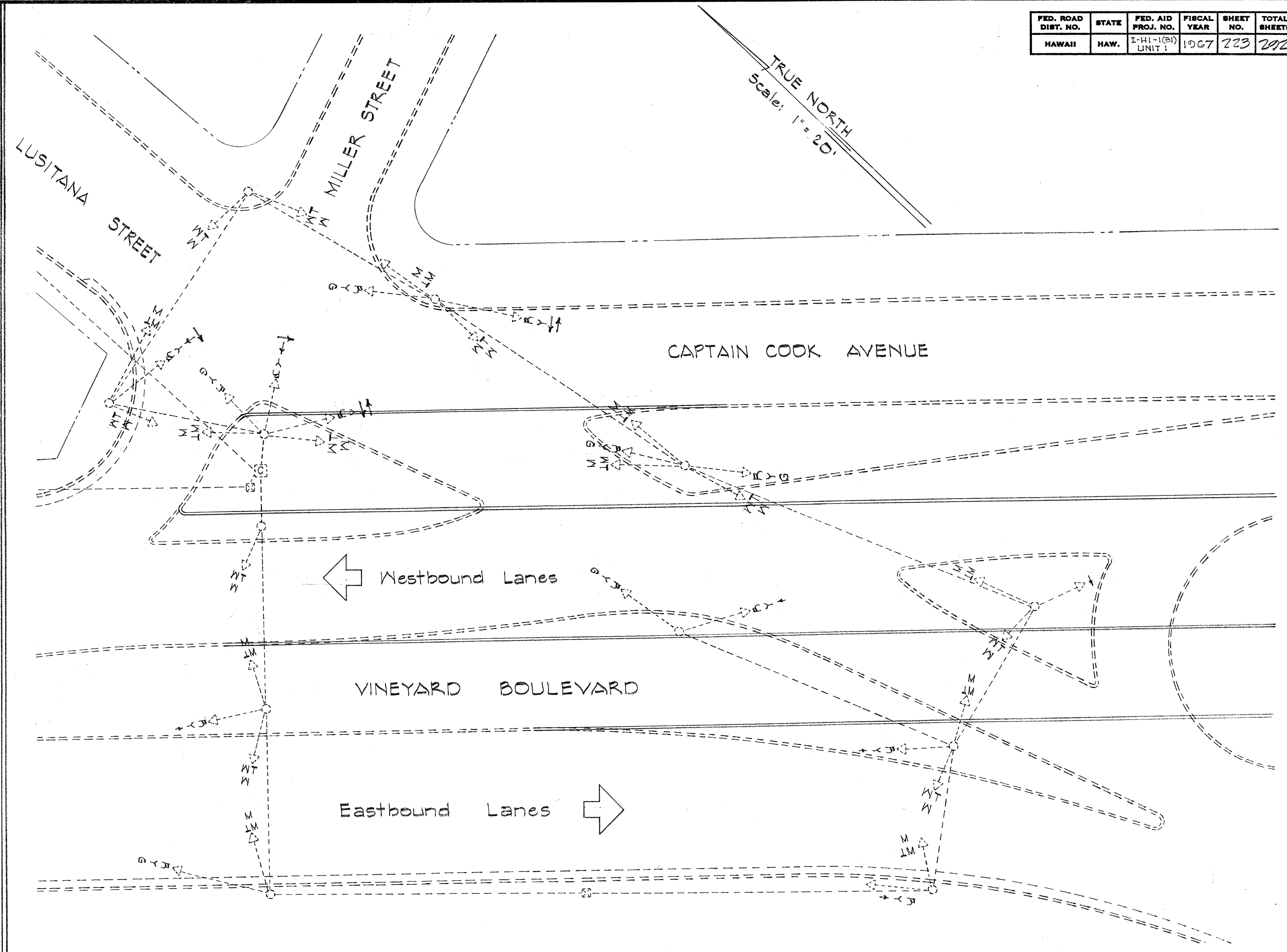


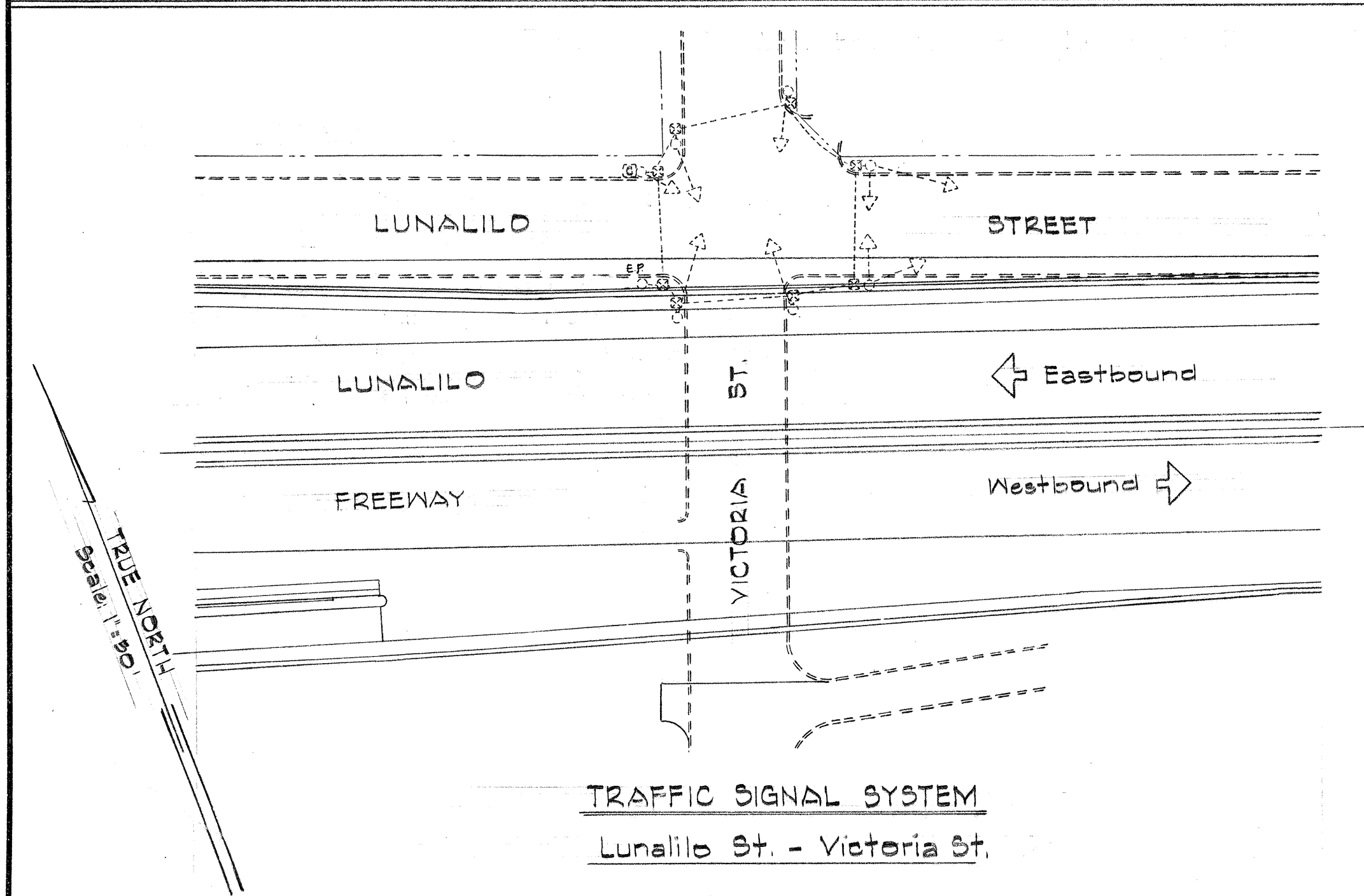
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31) UNIT 1	1967	223	292



TRAFFIC SIGNAL SYSTEM
Lusitana St. - Lunalilo St.



TRAFFIC SIGNAL SYSTEM
Lusitana St. - Vineyard Blvd.



TRAFFIC SIGNAL SYSTEM
Lunalilo St. - Victoria St.

NOTES

1. The Contractor shall notify the Department of Traffic, City and County of Honolulu, prior to removing the existing traffic signal systems.
2. Two (2) traffic signal standards, four (4) "WAIT-WALK" signals, and two (2) P+T signals shall be relocated and installed for the traffic signal systems on Ward Ave. at Kinau St. and Lunalilo St. as directed by the Engineer.
3. All other signal equipment shall be removed and stockpiled as directed by the Engineer.
4. Bases for traffic signal standards and controllers shall be demolished.
5. Existing pull boxes, detectors, conduits and cables shall be removed or abandoned as directed by the Engineer.

LEGEND

- Existing standard and signal
- Existing controller
- Existing pull box
- Existing detector
- Existing conduit and cable
- Existing electric pole

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM

INTERSTATE ROUTE H-1
(LUNALILO FREEWAY)
Pele St. to Victoria St.
F.A.I. Proj. No. I-HI-1(31), Unit 1

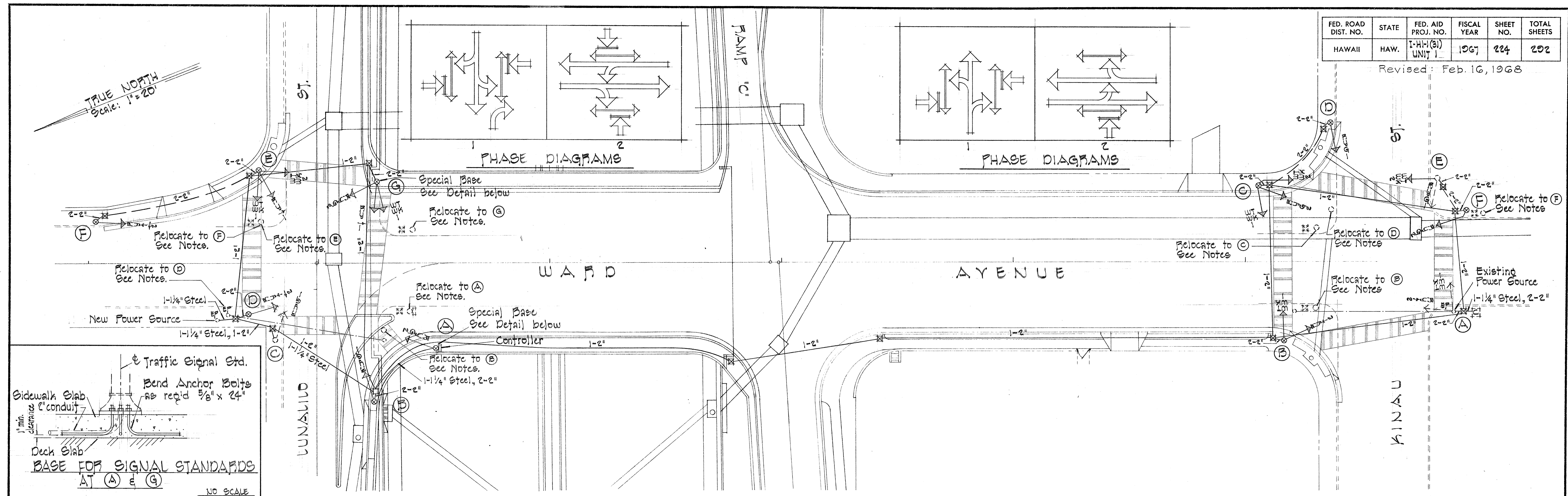
Scale as Noted Date: April, 1966

SHEET No. 1 OF 4 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI(31) UNIT 1	1967	224	232

Revised: Feb. 16, 1968



WARD AVE. at LUNALILO ST.

- | STANDARD | NOTES |
|----------|--|
| (A) | 1. Relocate standard w/ controller & signal from existing location as shown. |
| (B) | 1. Relocate standard & signal from existing location as shown. |
| (C) | 1. Standard & signal shall remain in existing location. |
| (D) | 1. Relocate RYG signal from EP as shown.
2. Remove green lens and install two green arrows as shown.
3. Relocate standard from signal system on Lusitana St. @ Lunalilo St. & Vineyard Blvd. See Plan Sht. # 223 |
| (E) | 1. Relocate WT-WK signal from existing location as shown.
2. Relocate standard, RYG & WT-WK signals from signal system on Lusitana St. @ Lunalilo St. & Vineyard Blvd. See Plan Sht. # 223 |
| (F) | 1. Relocate standard & RYG signal from existing location as shown.
2. Remove green lens & install two green arrows as shown. |
| (G) | 1. Relocate standard & signals from existing location as shown.
2. Relocate RYG signal from signal system on Lusitana St. @ Lunalilo St. & Vineyard Blvd. See Plan Sht. # 223 |

LEGEND

- ⊗ → Relocated standard & signal.
- → Existing standard & signal.
- New Type 'A' pullbox
- ⊠ New Type 'B' pullbox.
- ⊠ Existing pullbox to be used.
- ⊠ Existing pullbox to be removed or abandoned as directed by the Engineer.
- Existing overhead cable to be removed.
- 1-1/4" Steel New steel conduit. (No. & size as indicated)
- 1-2" New steel or polyvinyl chloride conduit. (No. & size as indicated)
- 2-2" New cement asbestos duct. (No. & size as indicated)
- ⊠ Existing controller.
- Electric pole.

GENERAL NOTES

- The Contractor shall notify the Department of Traffic, City & County of Honolulu, prior to doing any work on the traffic signal systems.
- The exact location of traffic signal standards, pullboxes and conduits shall be determined in the field by the Engineer.
- Existing cables, conduits and pullboxes not used in the new traffic signal systems shall be abandoned or removed as directed by the Engineer. (All costs shall be incidental to the item "Traffic Signal System").
- Pavement Markings by others.

WARD AVE. at KINAU ST.

- | STANDARD | NOTES |
|----------|--|
| (A) | 1. Standard & signal shall remain in existing location. |
| (B) | 1. Relocate standard & signal from existing location as shown.
2. Remove green lens & install green arrow as shown. |
| (C) | 1. Relocate standard & RYG signal as shown.
2. Relocate two WT-WK signals from signal system on Lusitana St. @ Lunalilo St. & Vineyard Blvd. See Plan Sht. # 223 |
| (D) | 1. Relocate standard & signal from existing location as shown. |
| (E) | 1. Standard & signal shall remain in existing location.
2. Relocate WT-WK signal from signal system on Lusitana St. @ Lunalilo St. & Vineyard Blvd. See Plan Sht. # 223 |
| (F) | 1. Relocate standard & signal from existing location as shown. |

NOTE:
C.O. 224 supersedes and replaces Sht. No. 224

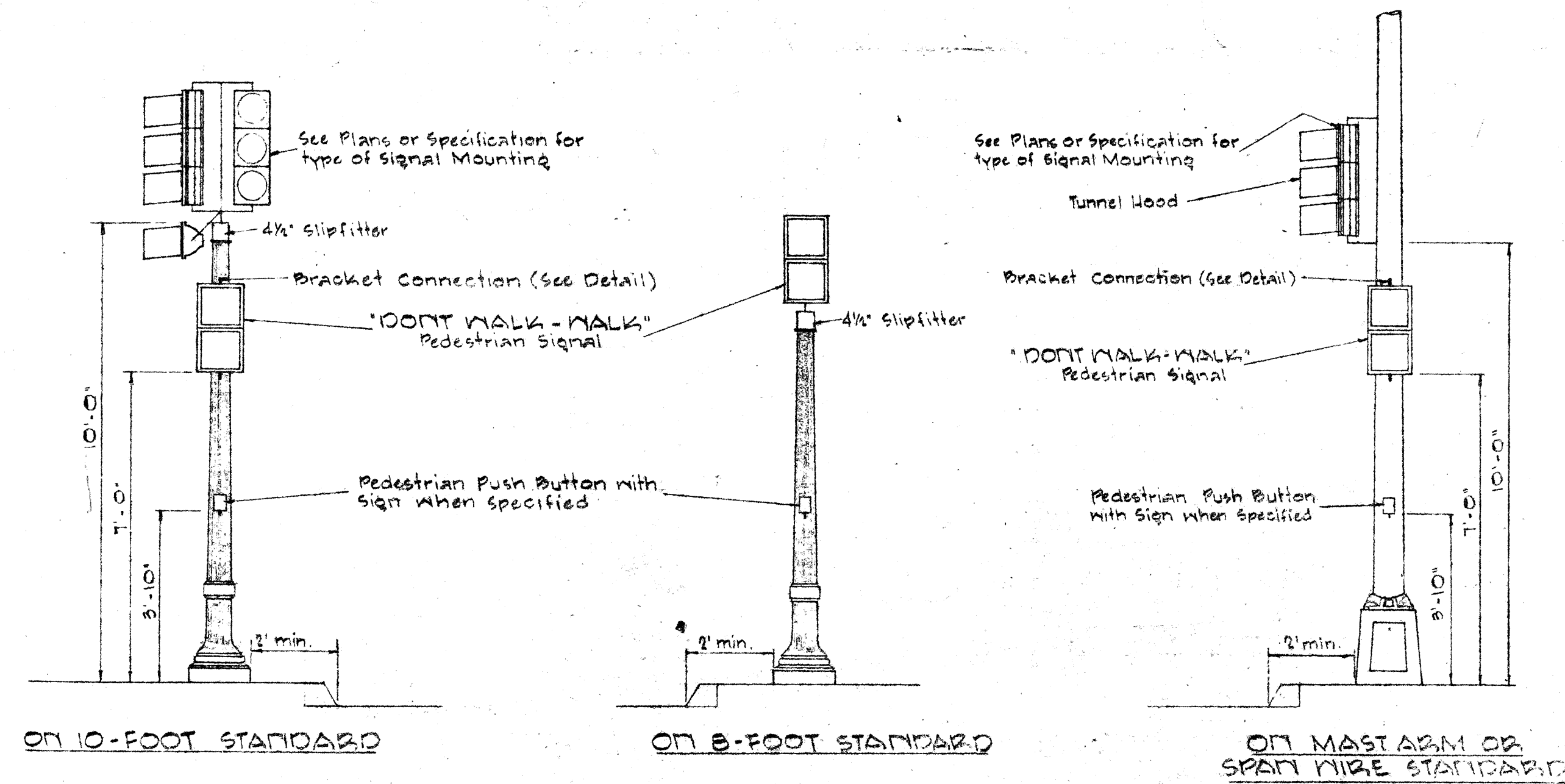
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM
Ward Ave. @ Lunalilo & Kinau Sts.

INTERSTATE ROUTE H-1
(LUNALILO FREEWAY)
Pele St. to Victoria St.
F.A.I. Proj. No I-HI-1(31), Unit 1
Scale: 1" = 20' September 1967

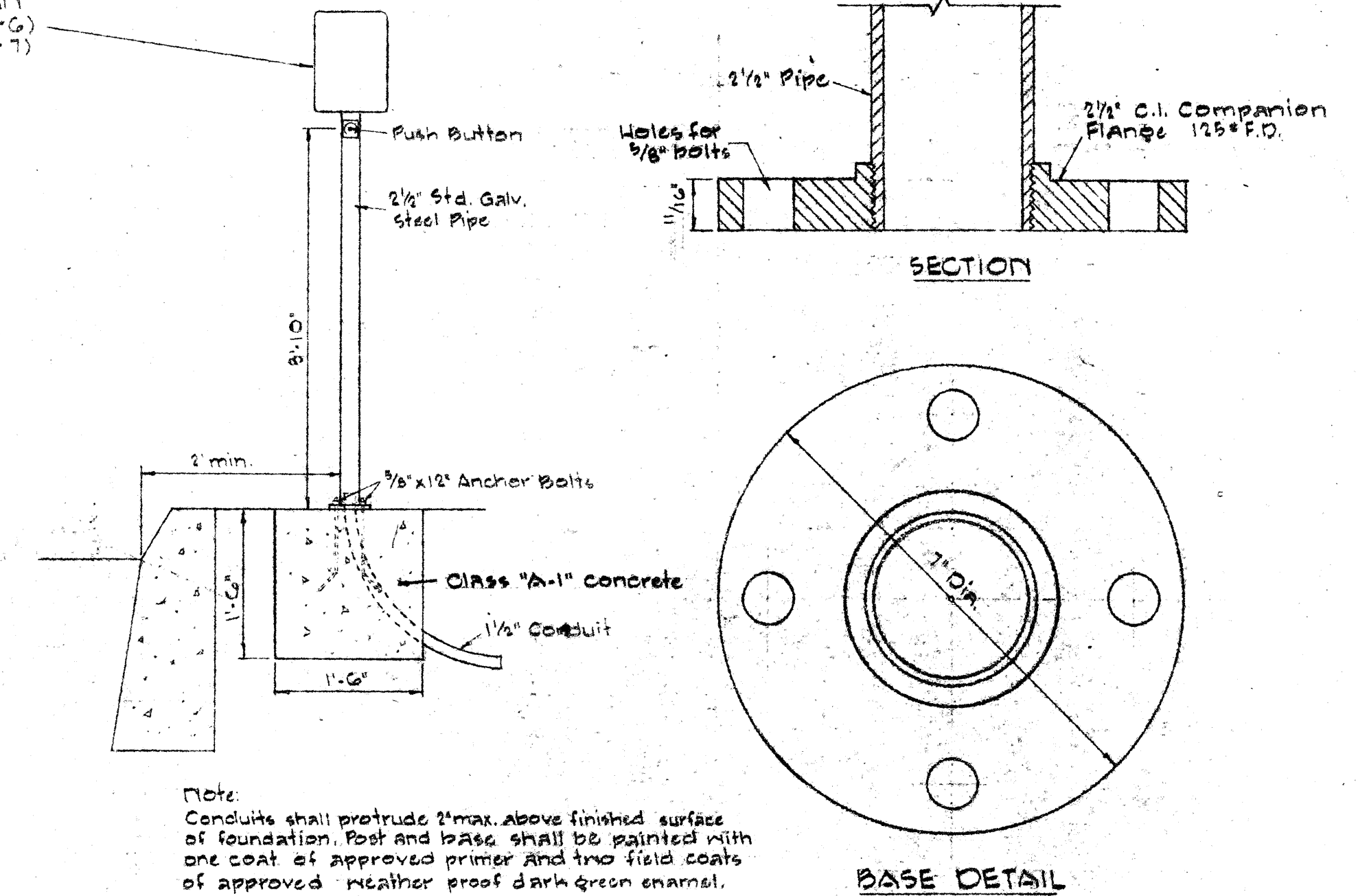
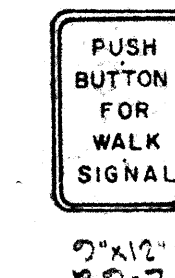
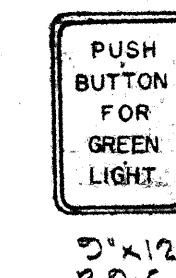
SHEET No. 2 OF 4 SHEETS

DATE	
SURVEY PLOTTED BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

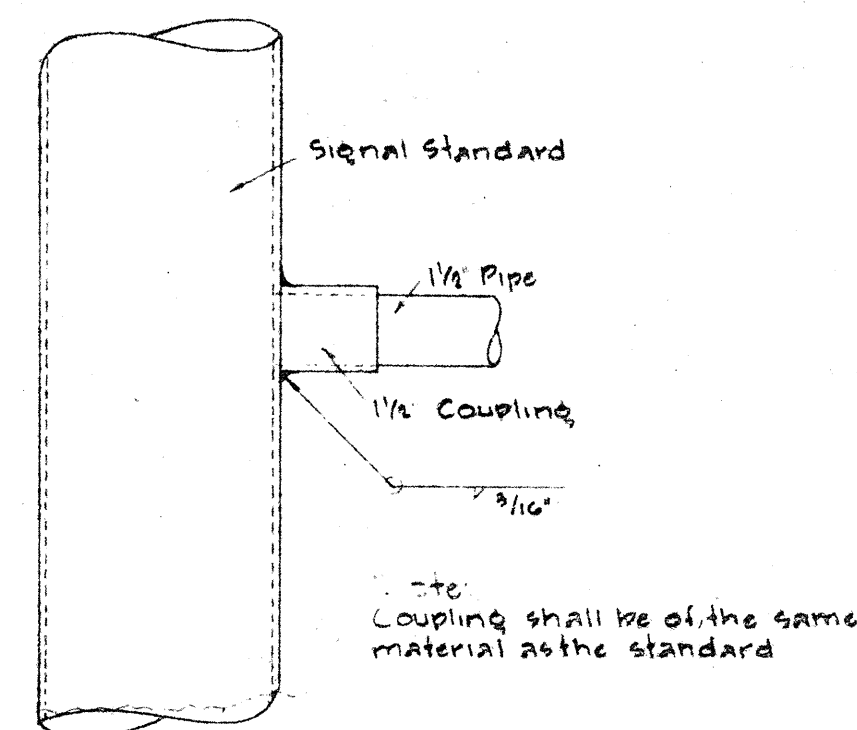


TYPICAL EQUIPMENT MOUNTING

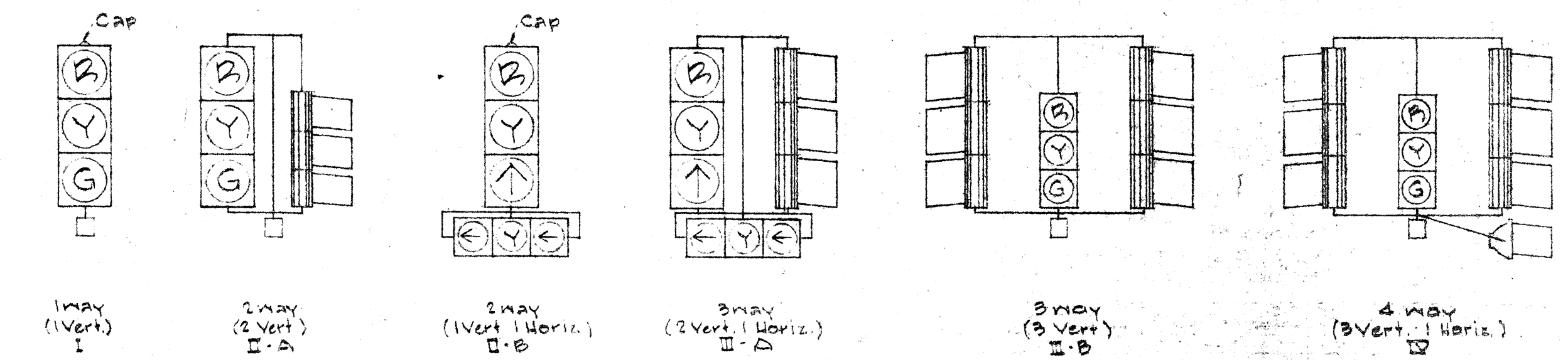
TRAFFIC SIGN AS SPECIFIED IN PLAN
 1. Push Button for Green Light (B-2-G)
 2. Push Button for Walk Signal (B-2-W)



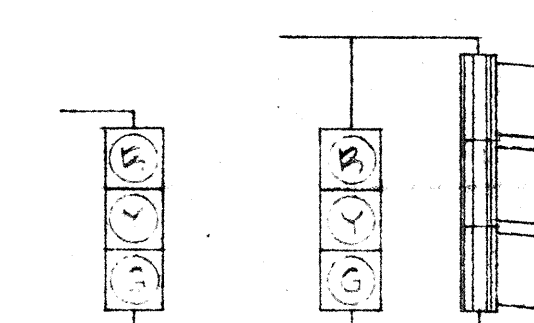
PEDESTRIAN PUSH BUTTON POST



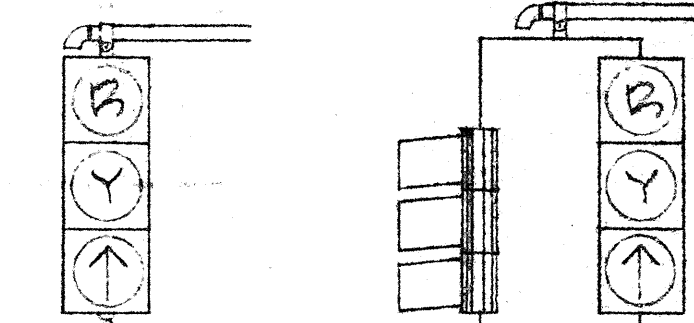
DETAIL OF BRACKET CONNECTION



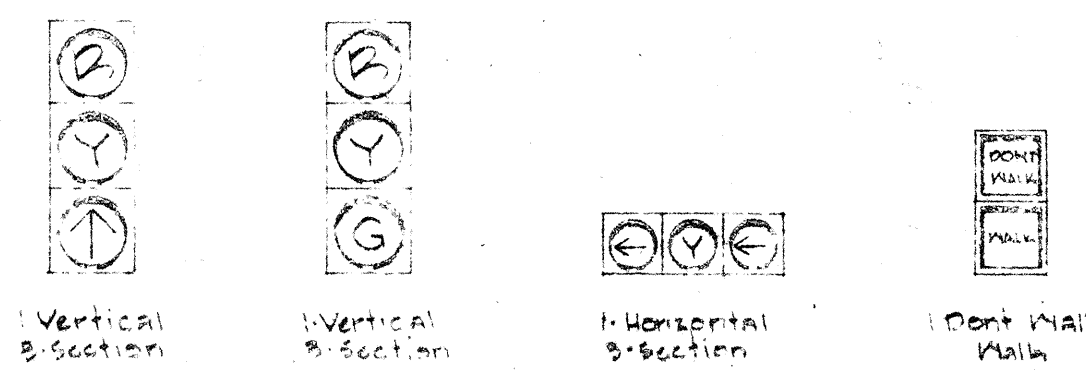
SLIPFITTER MOUNTINGS



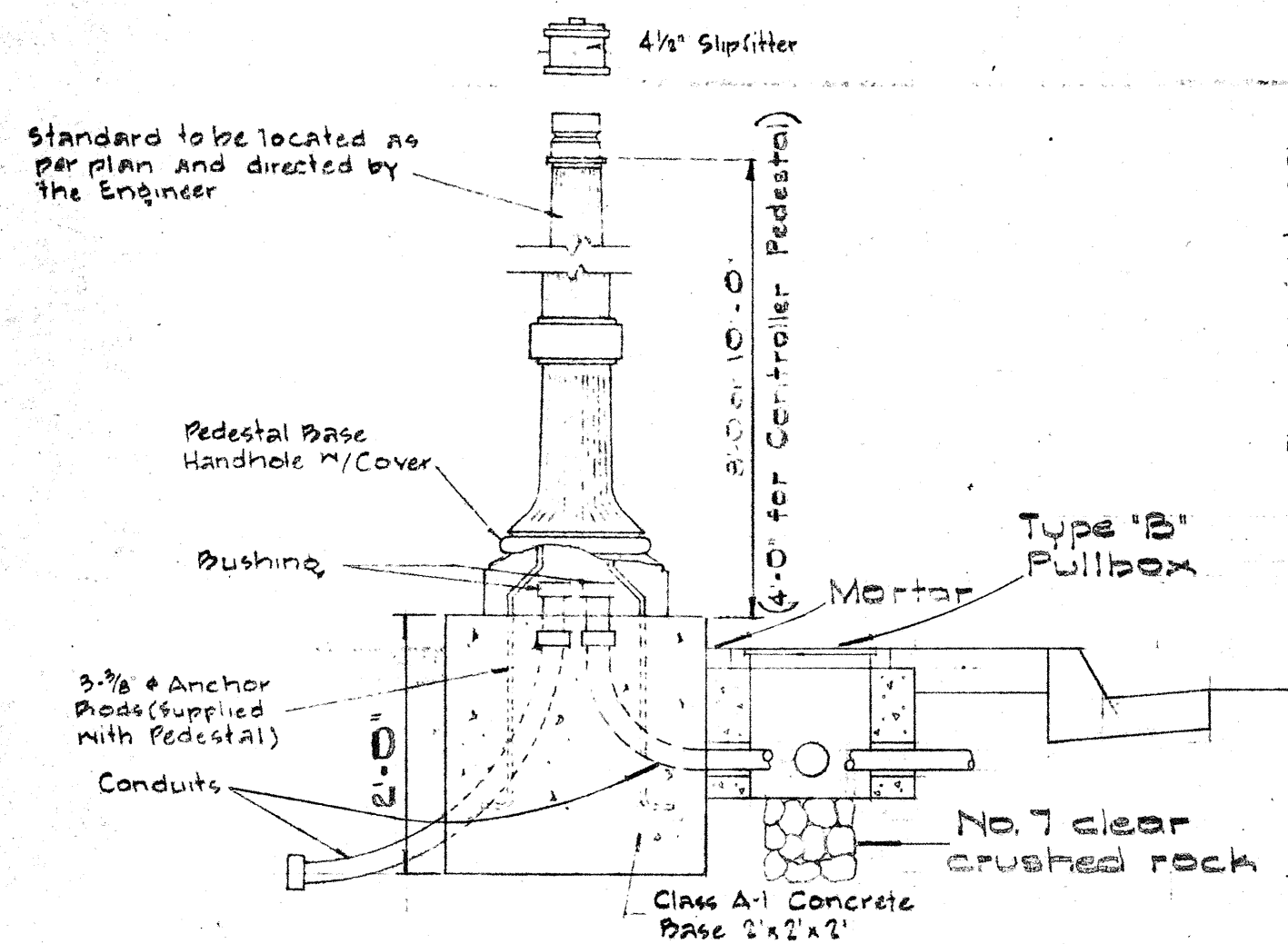
BRACKET MOUNTINGS



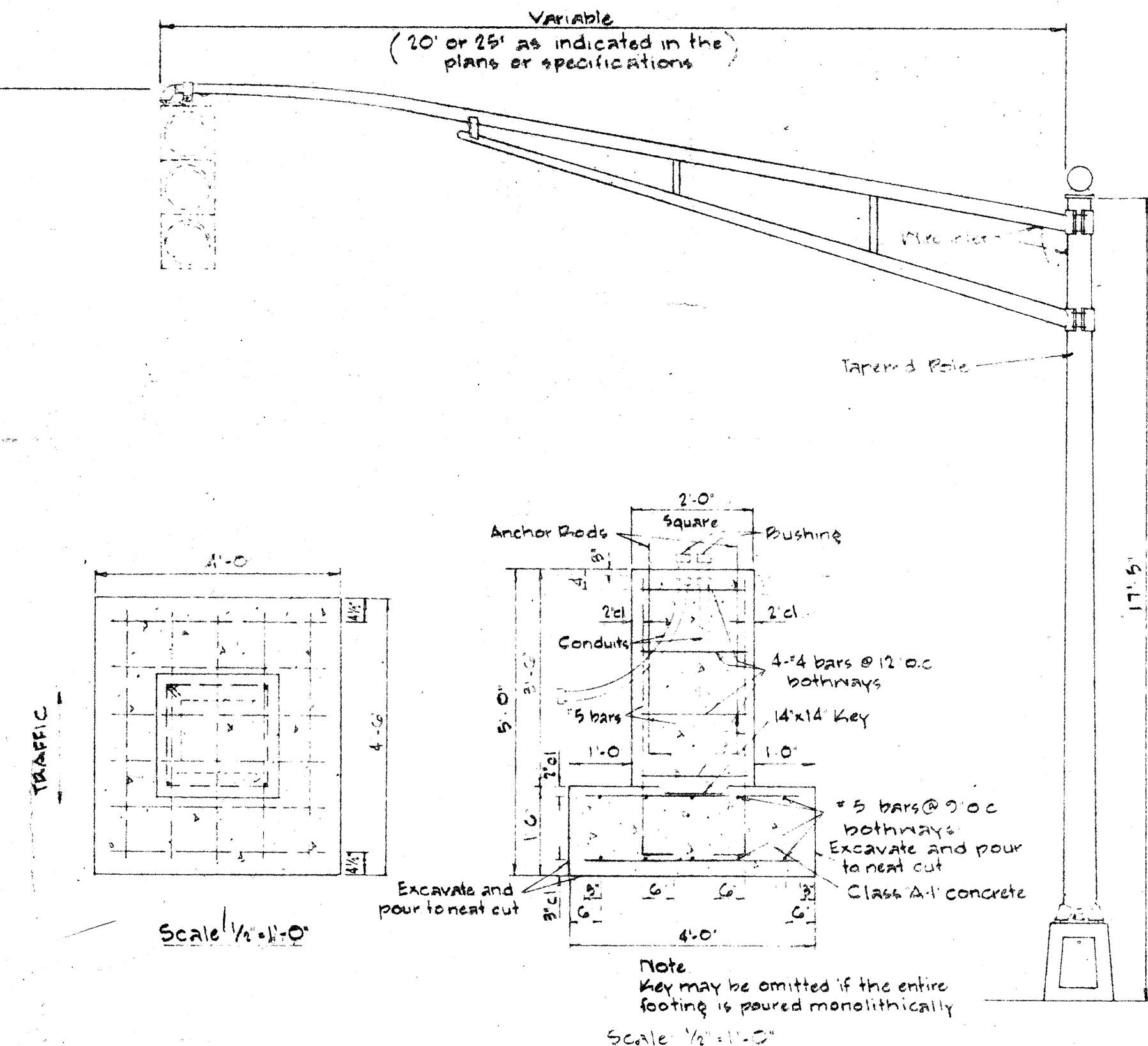
MAST ARM MOUNTINGS



TYPICAL SIGNAL ARRANGEMENTS



BASE for SIGNAL STANDARD or CONTROLLER PEDESTAL



MAST ARM FOOTING AND STANDARD

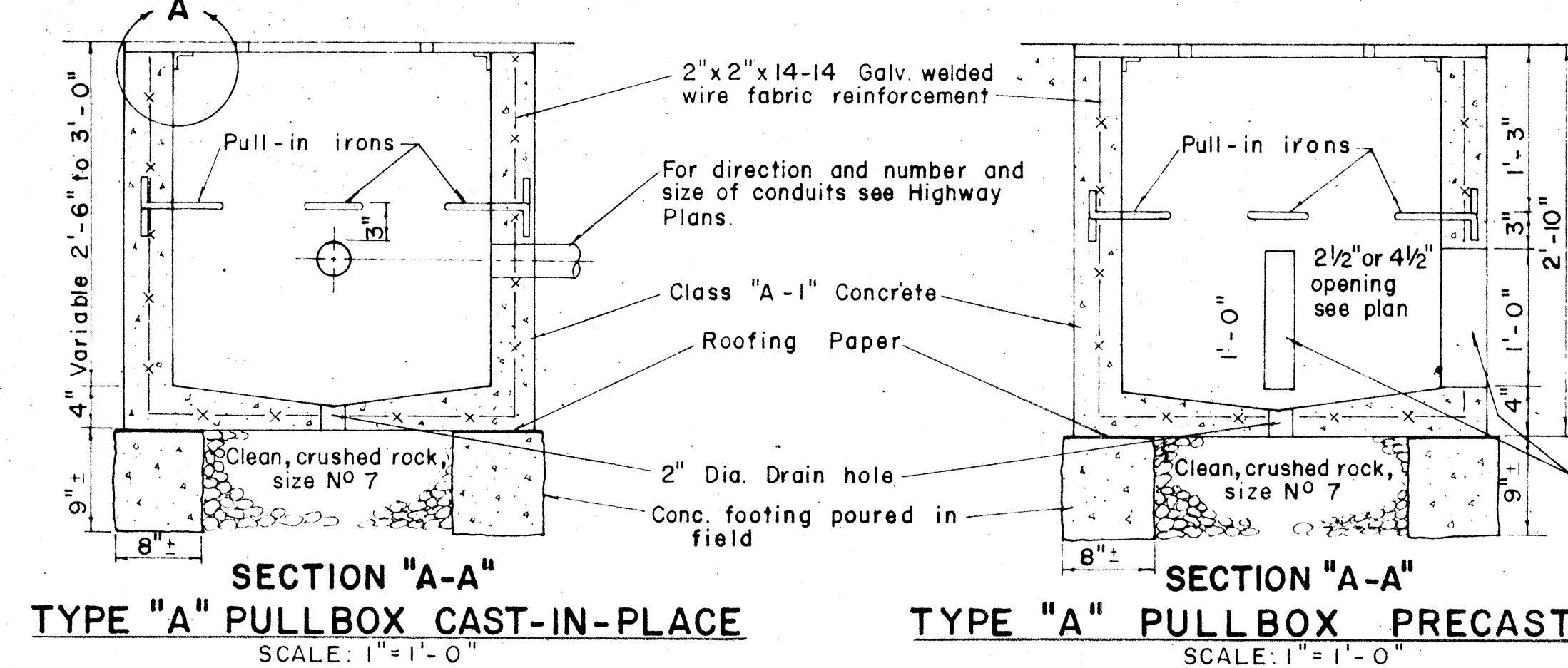
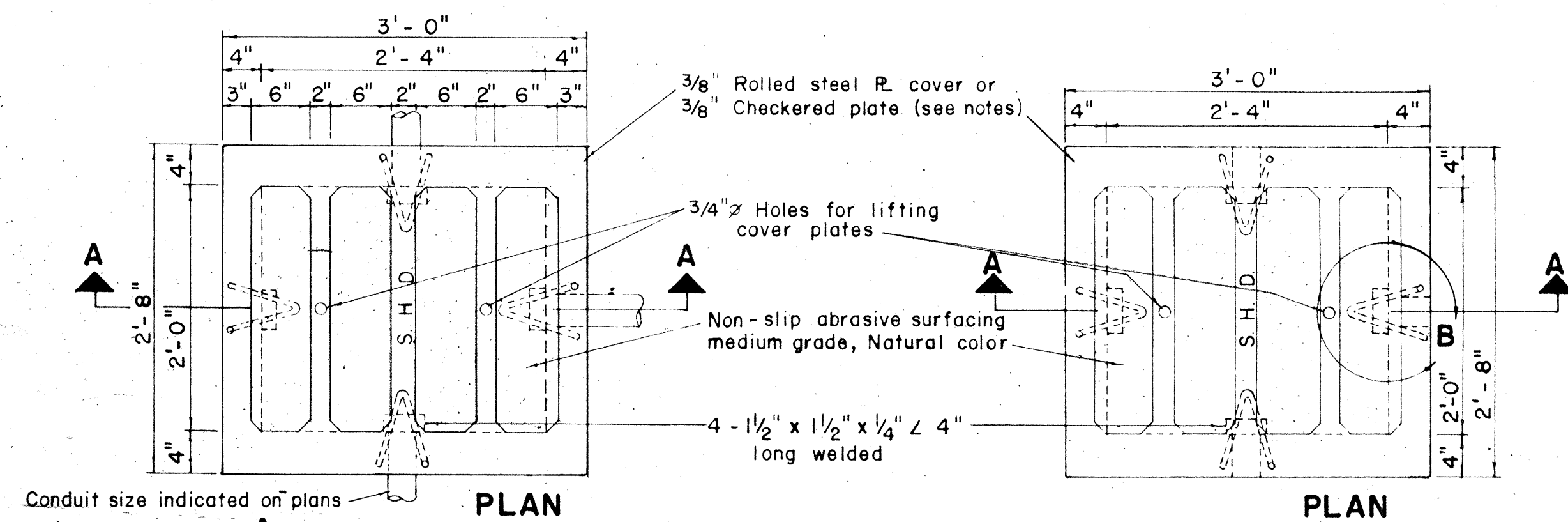
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM

MISCELLANEOUS DETAILS

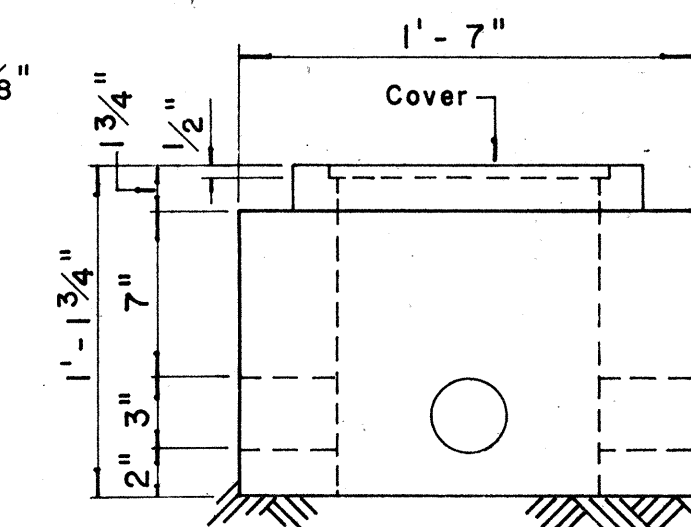
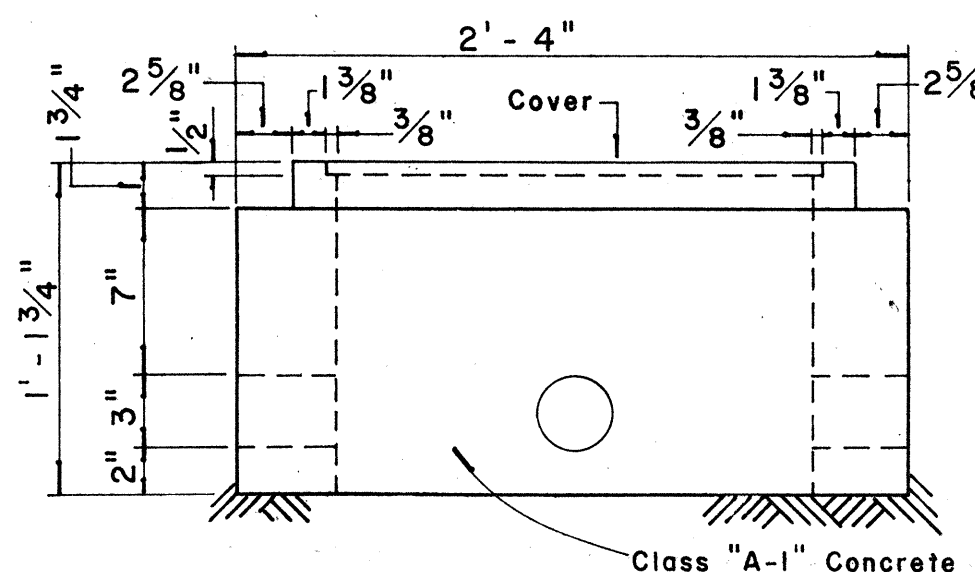
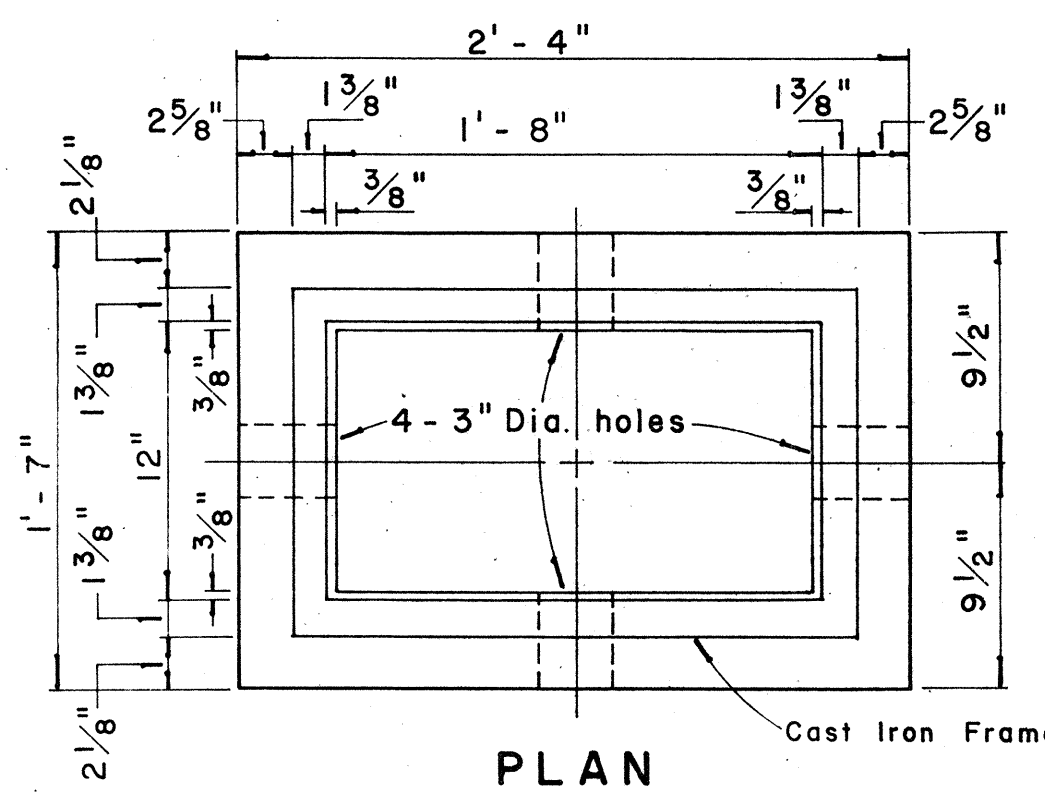
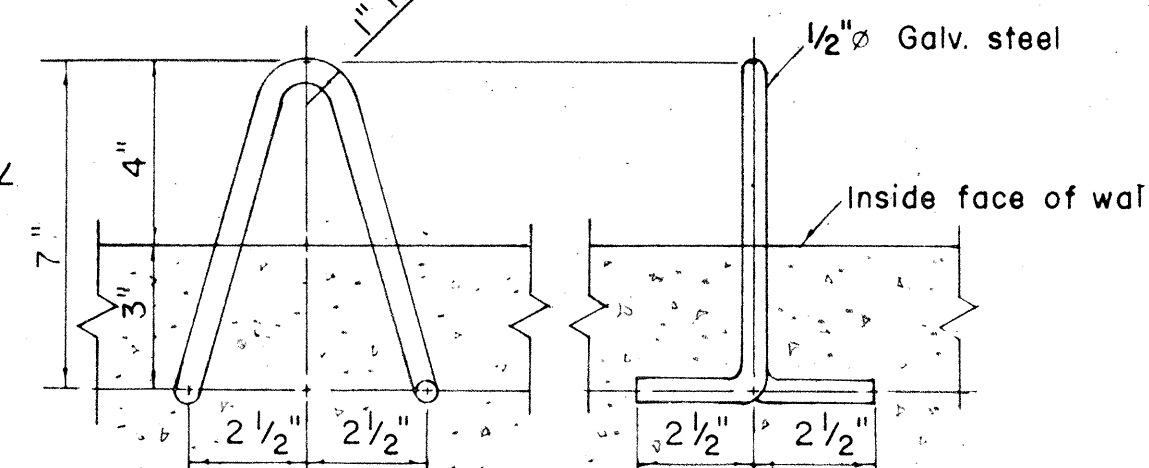
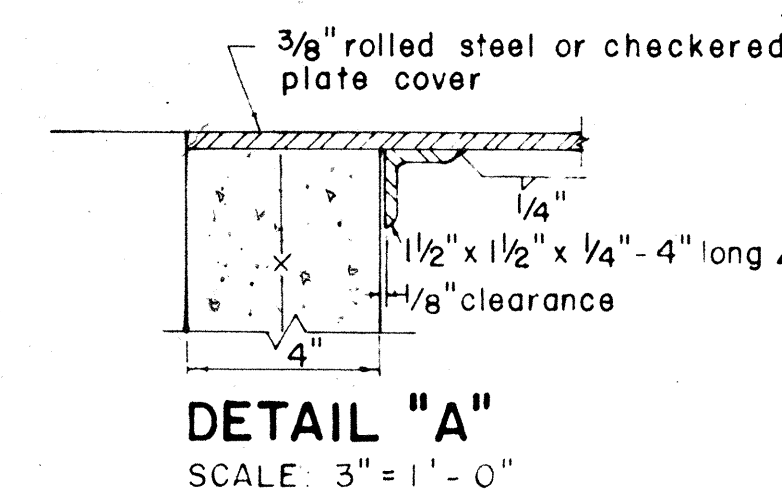
No Scale

SHEET No. 3 OF 4 SHEETS

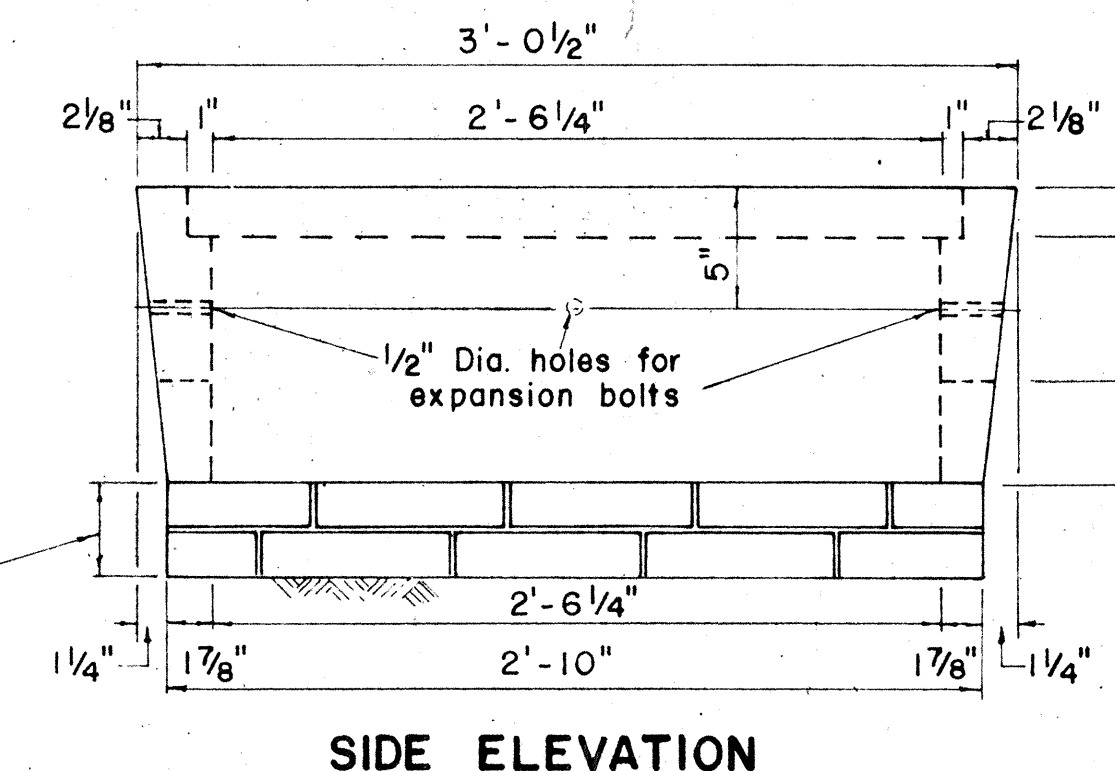
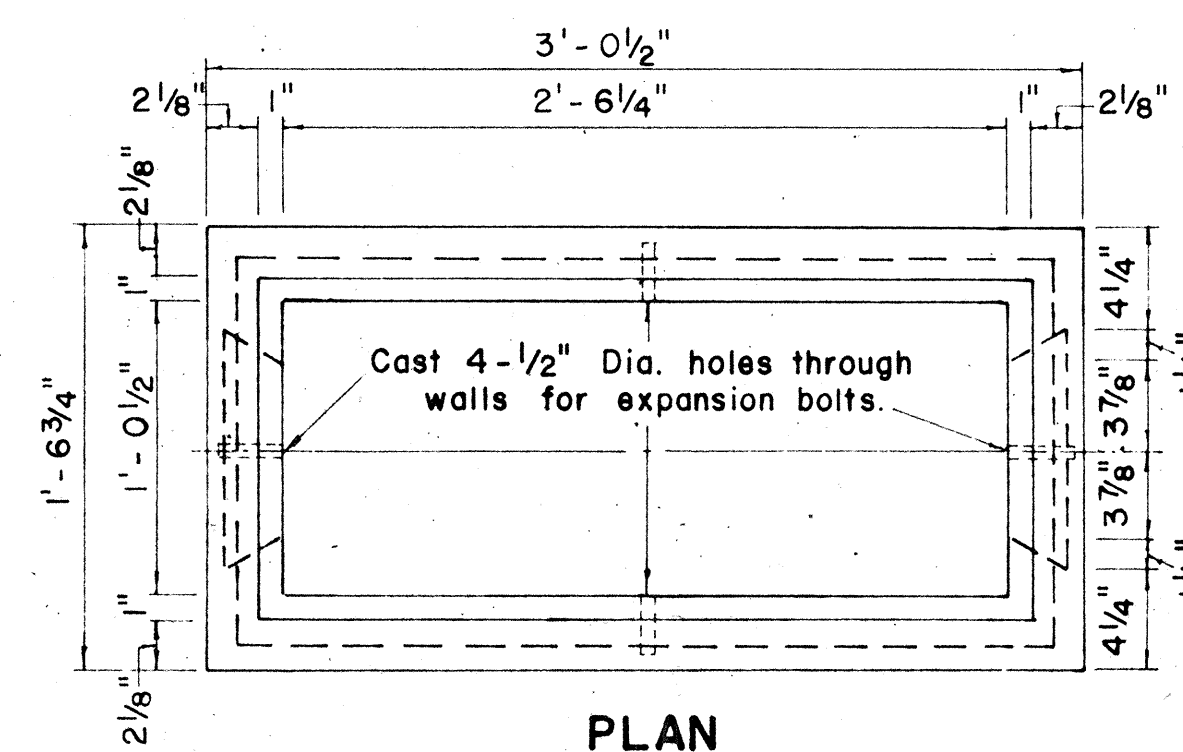


NOTE: (FOR TYPE "A" PULLBOX)

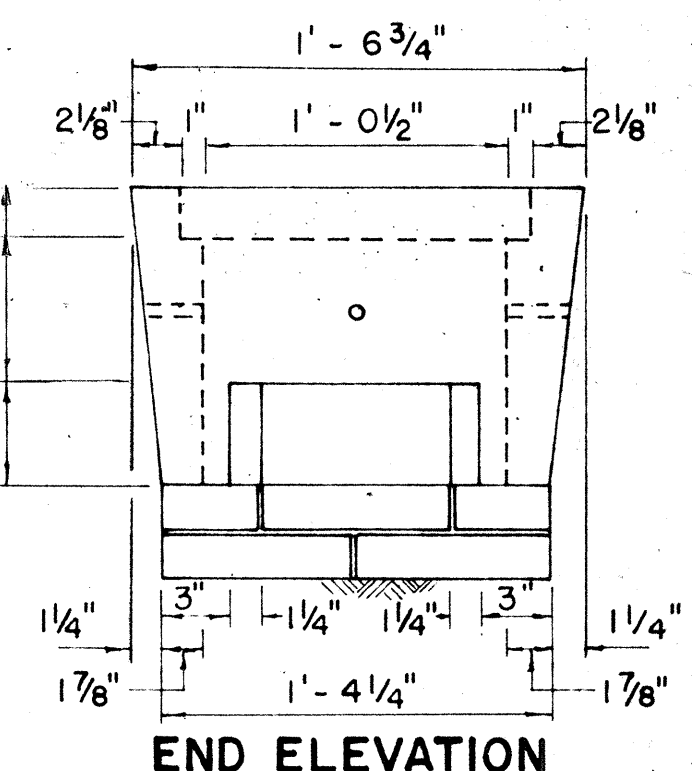
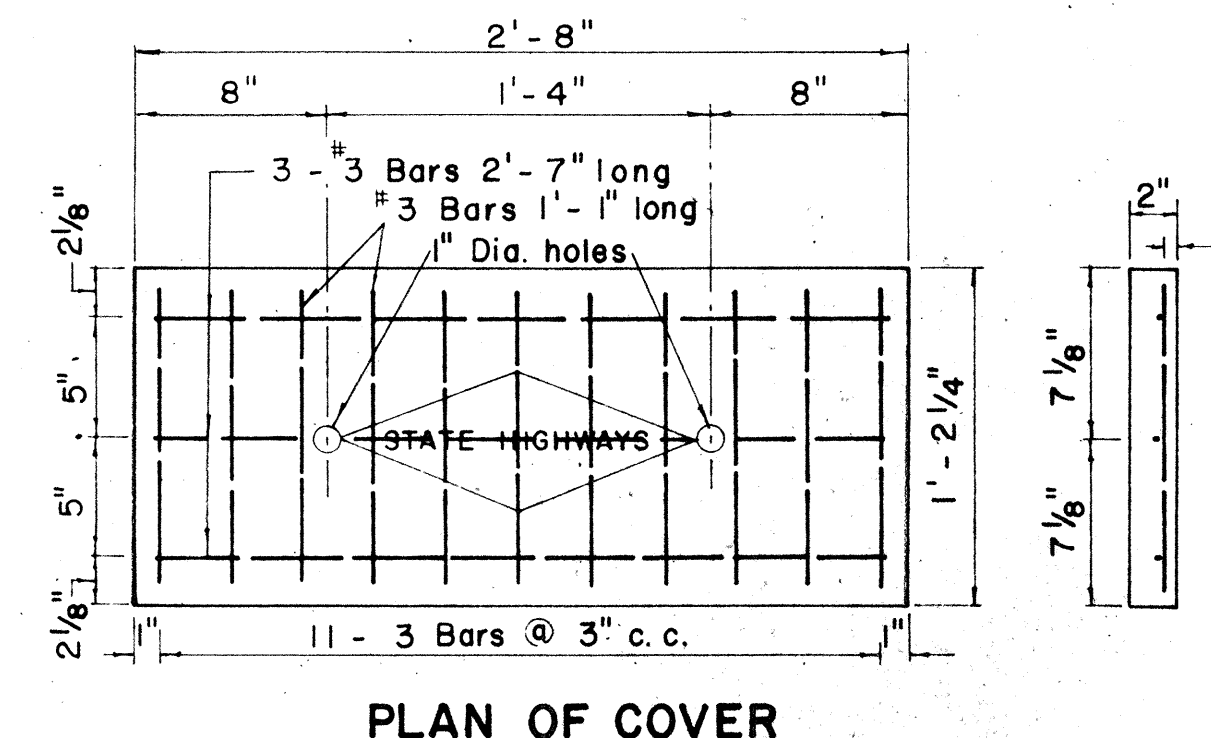
1. 3/8" Rolled steel plate cover with non-slip abrasive surfacing medium grade, natural color shall be used on all pullboxes located on sidewalk areas where pedestrians are walking.
2. 3/8" Checkered plate cover shall be used on all pullboxes located in median areas and other locations where there are no pedestrians walking.
3. Pull irons shall be placed opposite each conduit slot.
4. Covers on all pullboxes located in sidewalk areas shall be set flush with the concrete sidewalk.
5. Each pullbox shall have a pair of pullirons opposite each other for lifting purposes.



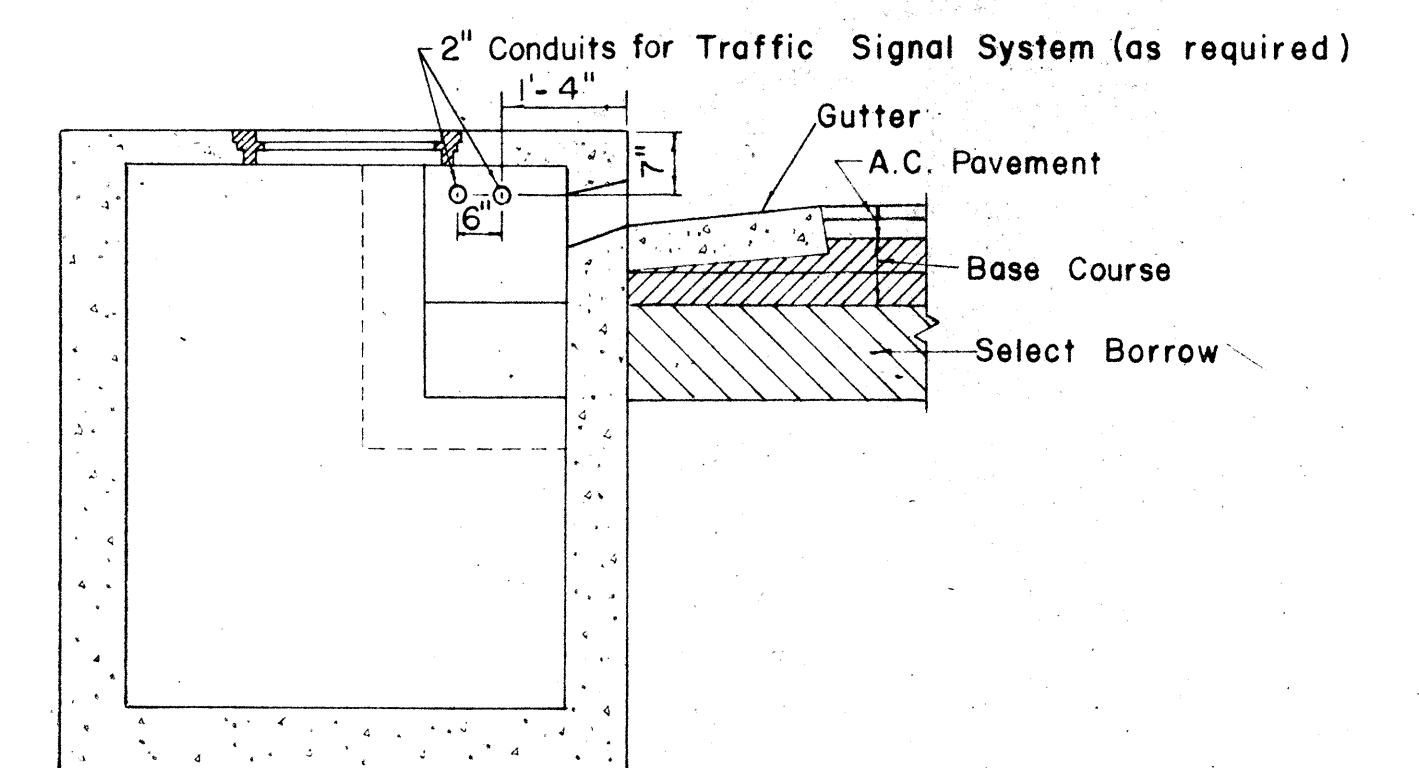
CITY and COUNTY TRAFFIC DEPT.
TYPE "B" PULLBOX
SCALE: 1 1/2" = 1'-0"



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



NOTE: Galv. 2" conduits shall be supported by Band Hangers bolted to the top slab of Catch Basins.



TYPICAL SECTION SHOWING CONDUITS
PASSING THROUGH CATCH BASINS
SCALE: 1/2" = 1'-0"

APPROVED:
[Signature]
ASST. CHIEF ENGINEER, B.W.S. DATE 8-2-66

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS DETAILS
PULLBOXES AND CONDUITS
SCALE: AS NOTED
SHEET No. 4 OF 4 SHEETS