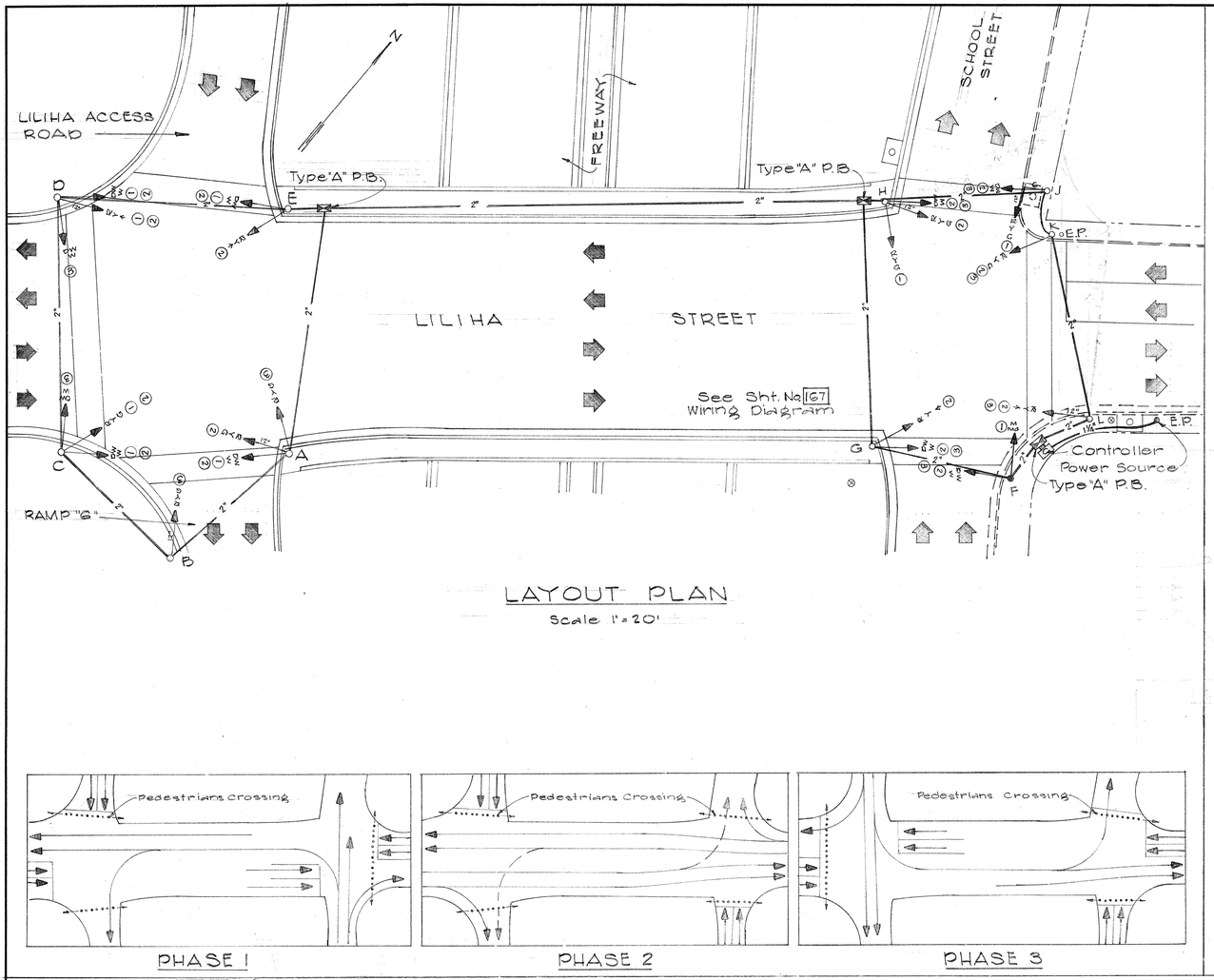
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-072-1(3)	1963	136	246
		U-098-1(4)	1963	61	88

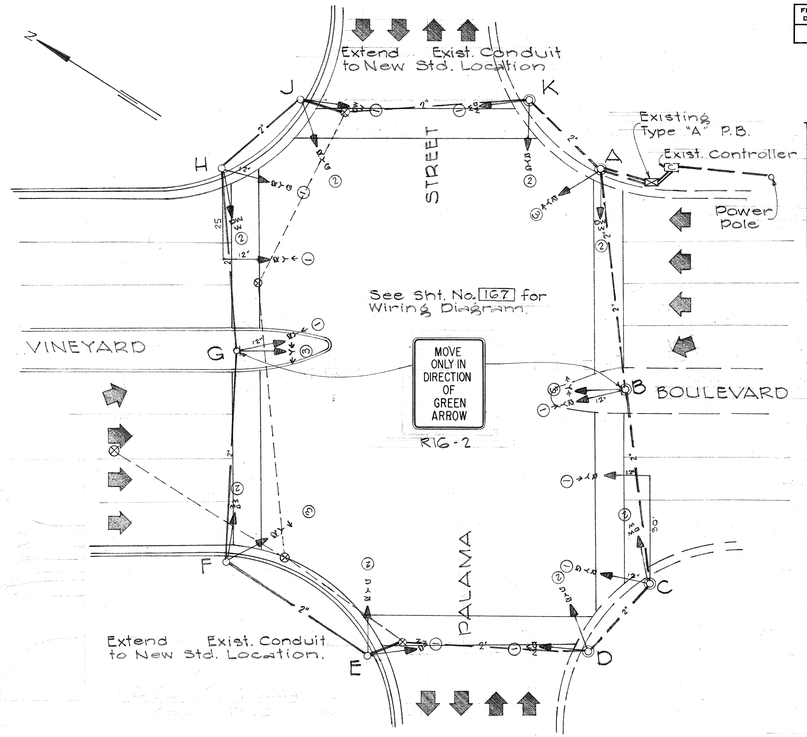


LAYOUT PLAN
Scale 1" = 20'

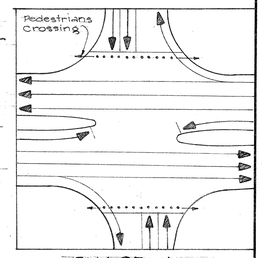
PHASE 1

PHASE 2

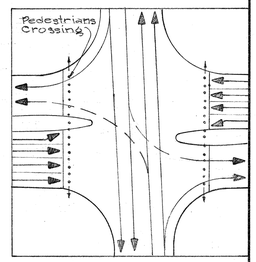
PHASE 3



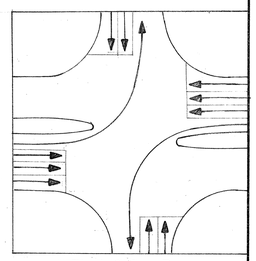
LAYOUT PLAN
Scale 1" = 20'



PHASE 1



PHASE 2



PHASE 3

TRAFFIC SIGNAL LEGEND

EXISTING

- Controller box.
- Existing traffic signal standard to be replaced by 10-foot standard.
- Existing traffic signal standard to be replaced by mast arm standard
- Traffic signal standard to be removed
- Conduit to remain (size as indicated)
- Conduit to be abandoned.
- Type "A" Pullbox
- E.P. Electric Pole

NEW

- Controller Box
- 10 foot Traffic Signal Standard
- 8 foot Traffic Signal Standard
- Mast Arm Traffic Signal Standard (Mast Arm length as indicated).
- Steel Conduit (Size as indicated).
- Temporary Overhead Cable.
- 12" Traffic Signal
- 8" Traffic Signal
- Type "A" Pullbox

NOTES:

1. The existing traffic signal system at the intersection of Vineyard Boulevard - Palama Street and the Liliha Street detour traffic signal system shall remain in operation until such time that the new signal systems can be placed in operation.
2. Exact location of the traffic signal standards, pullboxes, and controller shall be determined by the project engineer.
3. Existing underground conduits shall be abandoned or removed as directed by the project engineer (All costs incidental to the item of "Roadway Excavation")
4. Pavement markings by others.
5. The existing traffic signal system at the intersection of the existing Houghtailing Street and existing Vineyard Street will be dismantled by State Highway Maintenance personnel. The Contractor shall notify the Engineer before commencing work which will necessitate removal of the signals.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM
LAYOUT PLAN
VINEYARD BLVD. - PALAMA ST.
LILIHA ST. - LILIHA ACCESS RD. - SCHOOL ST.

VINEYARD BOULEVARD PROJ. Nº U-098-1(4)
LUNALILO FREEWAY PROJ. Nº U-072-1(3)

Scale: 1" = 20' 1963

SHEET No. 1 OF 4 SHEETS

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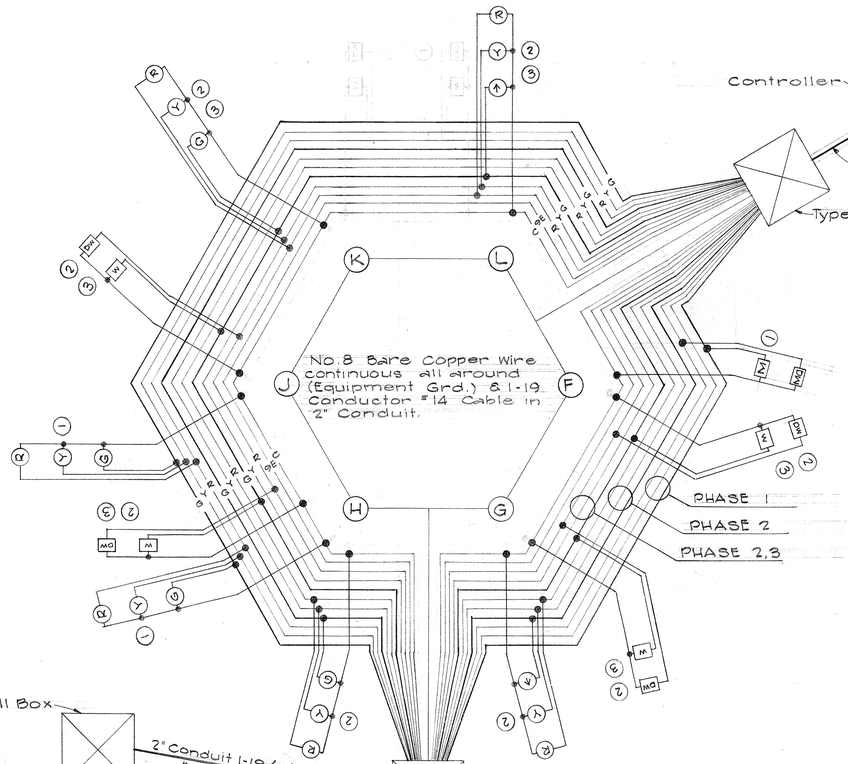
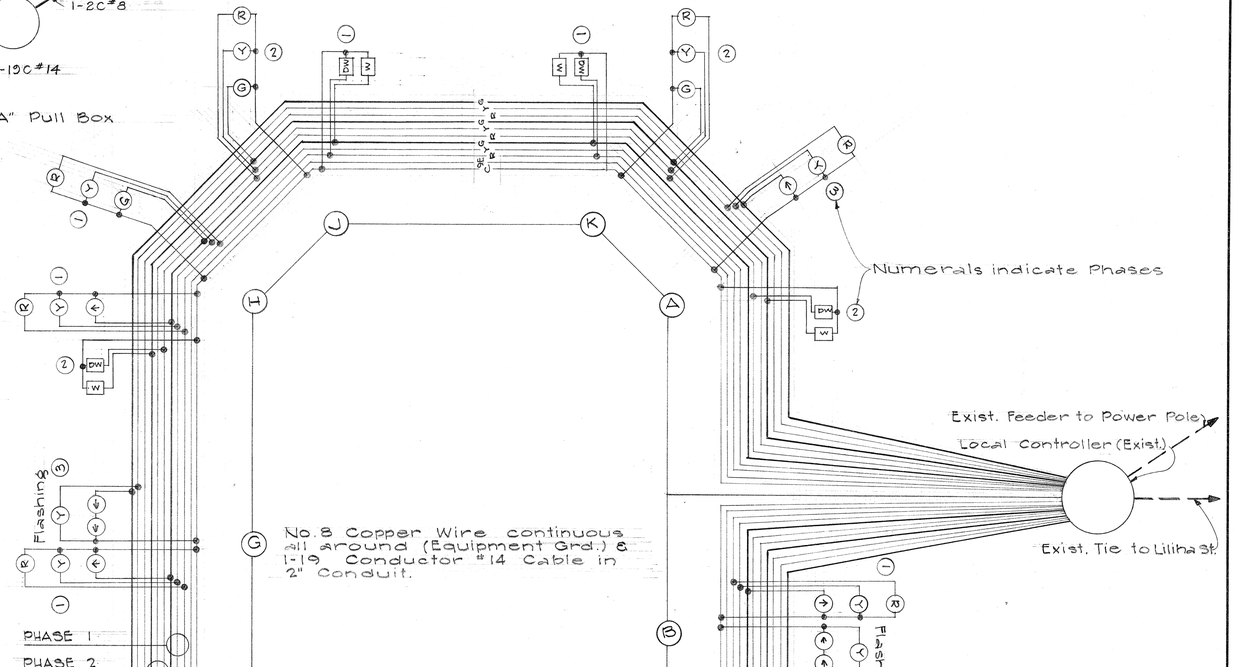
U09S104400.61 U072103300.136

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-072-1(3)	1963	138	246
		U-098-1(4)	1963	62	88



LILIHA STREET INTERSECTION

NOTE:
See Sht. No. 168 and 165 LAYOUTS & INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT



NOTE:
Existing 12-Conductor Cable to be removed and replaced with 19-conductor #14 cable.

PALAMA STREET INTERSECTION

GEOGRAPHICAL CIRCUIT WIRING DIAGRAMS FOR SIGNAL CABLE CIRCUITS

Not to Scale

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL DETAILS
GEOGRAPHICAL CIRCUIT WIRING
DIAGRAMS FOR SIGNAL CABLE CIRCUITS

LUNALILO FREEWAY
VINEYARD BOULEVARD

PROJ. No. U-072-1 (3)
PROJ. No. U-098-1 (4)

NO SCALE

SHEET No. 3 OF 4 SHEETS

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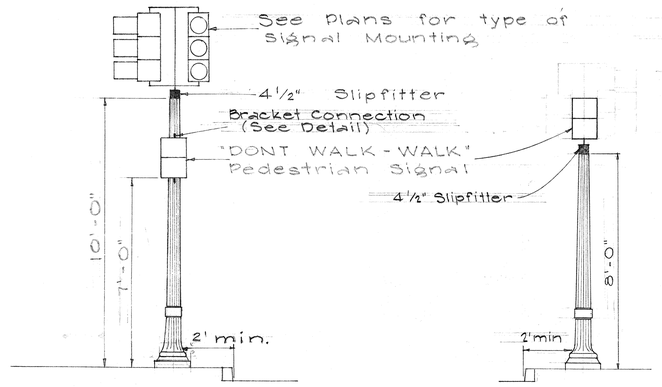
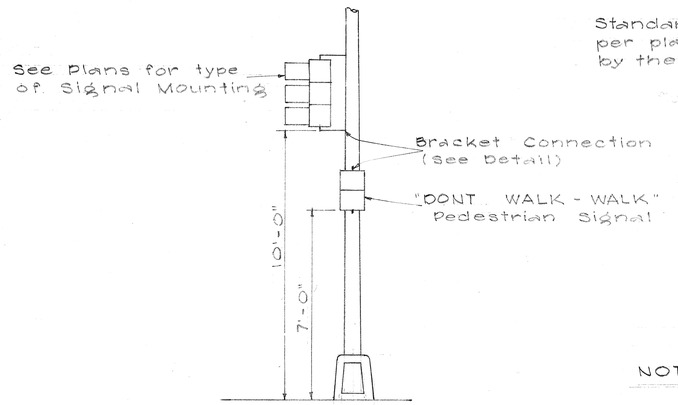
U098104400.62 U072103300.133

167

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-072-1(3)	1963	139	246
		U-098-1(4)	1963	63	88
		F-090-1(2)	1963	67	98

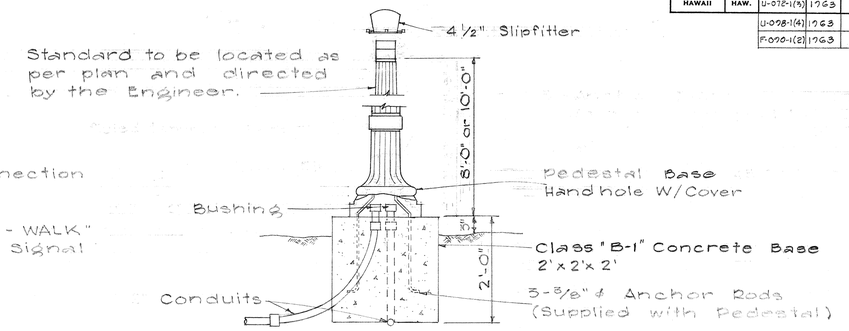


ON 10-FOOT STANDARDS ON 8-FOOT STANDARDS



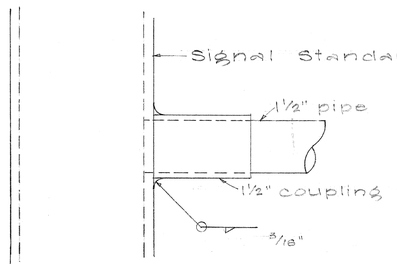
ON MAST-ARM STANDARDS

TYPICAL EQUIPMENT MOUNTING

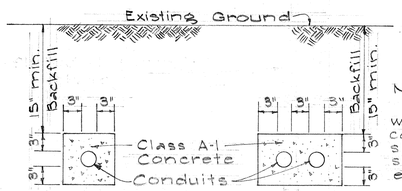


TRAFFIC SIGNAL POLE & BASE

NOTE: Controller pedestal and base shall be as detailed above except the shaft shall be 4 ft. in length.

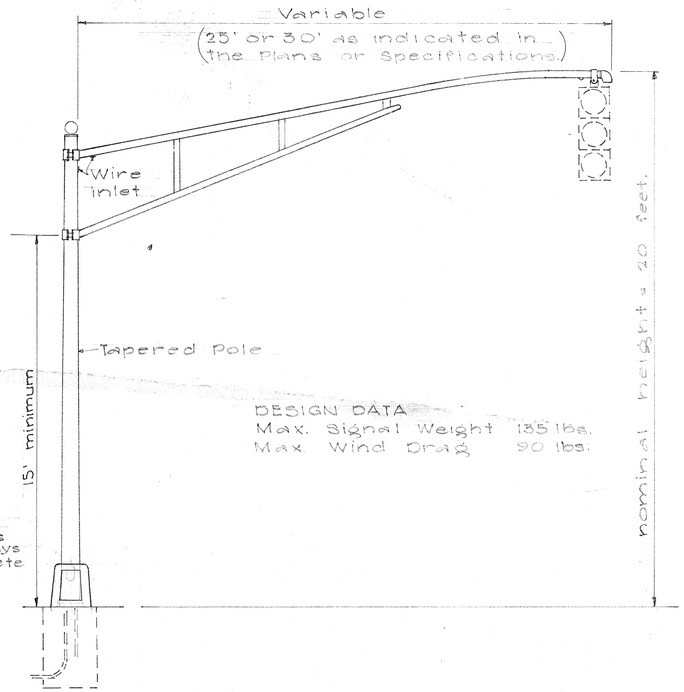


DETAIL OF BRACKET CONNECTION

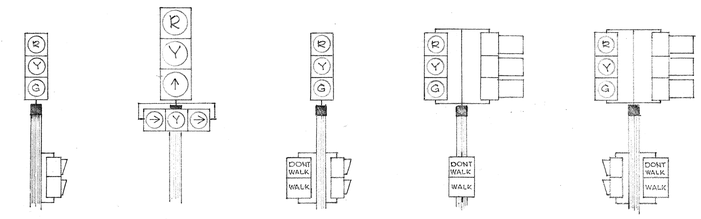


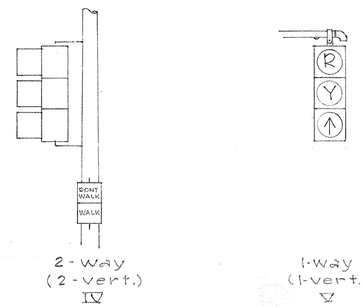
NOTE:
Conduits under paved sidewalks shall be Asbestos Cement conduit concrete encased as shown. Conduits under roadways shall be steel conduit concrete encased as shown.

TYPICAL DETAIL OF STEEL CONDUITS & ASBESTOS CEMENT CONDUITS ENCASED IN CONCRETE



MAST ARM STANDARD





TYPICAL VEHICULAR AND PEDESTRIAN SIGNAL MOUNTINGS

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS
TRAFFIC SIGNAL SYSTEM

LILIHA STREET	PROJ. Nº F-090-1(2)
LUNALILO FREEWAY	PROJ. Nº U-072-1(3)
VINEYARD BOULEVARD	PROJ. Nº U-098-1(4)

NO SCALE

SHEET No. 4 OF 4 SHEETS

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F 090110200.67 U 098104400.63 U 072103000.139