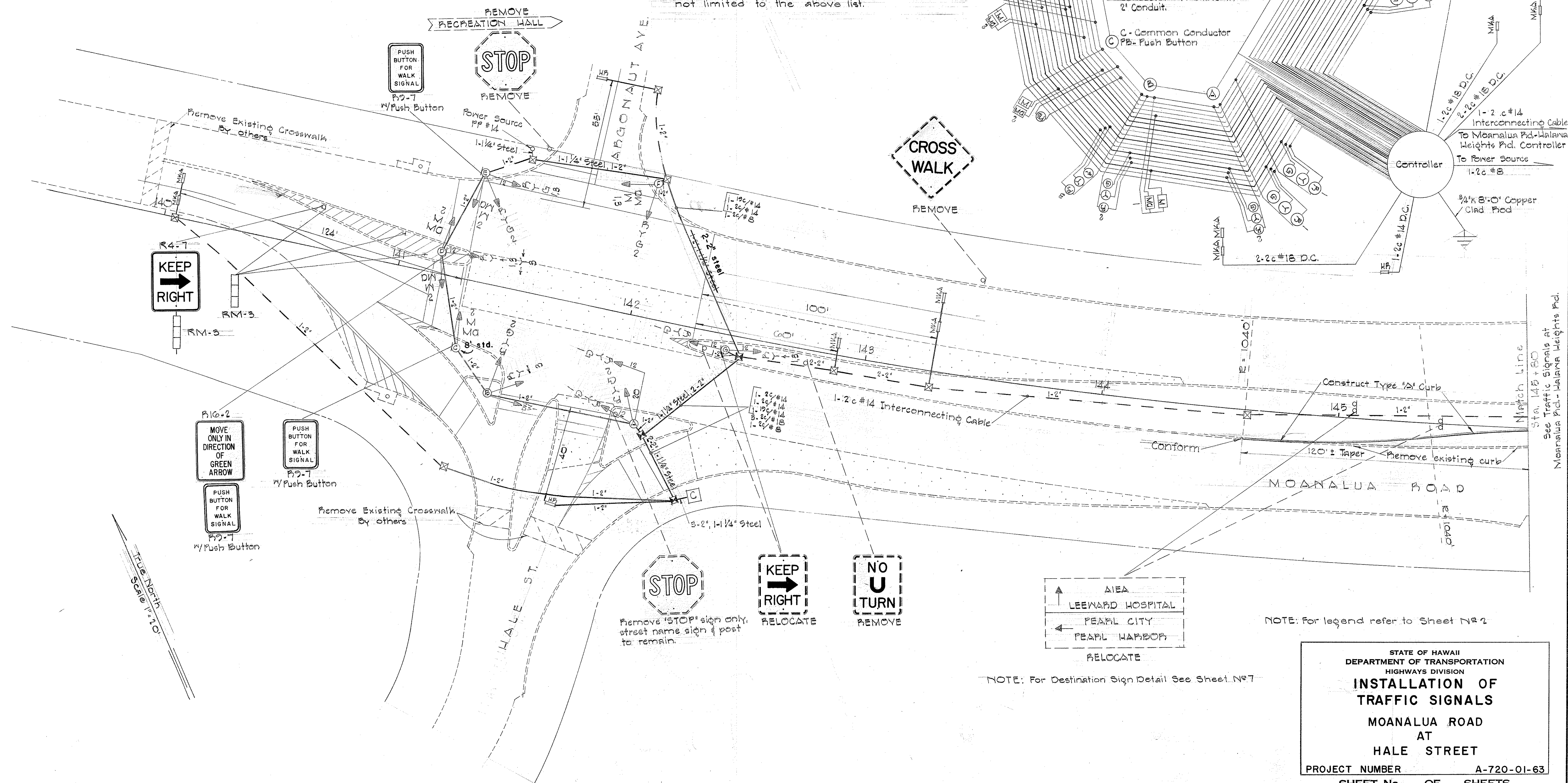
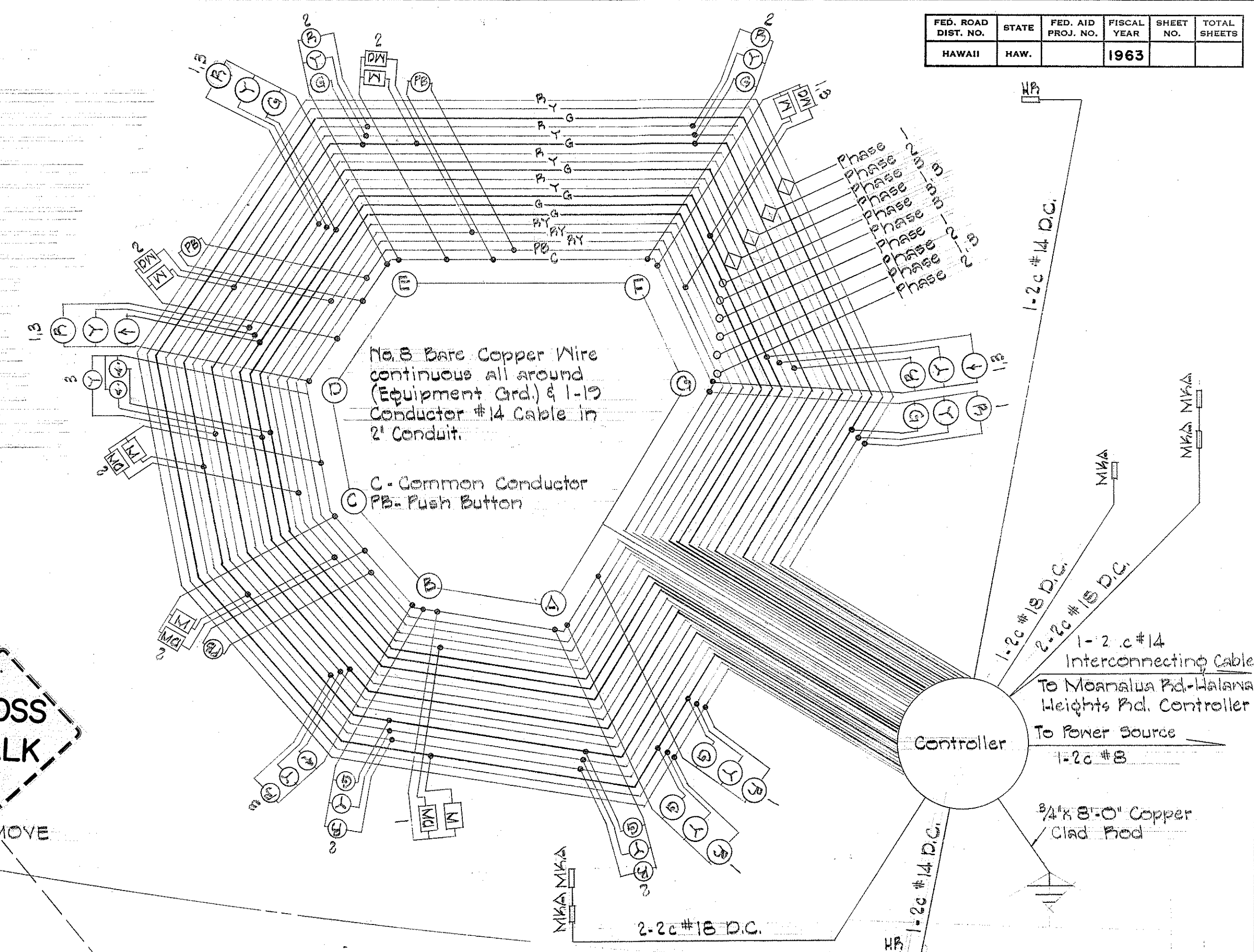


APPROXIMATE QUANTITIES

Roadway Excavation	50 cu. yd.
Remove Exist. Curb	130 Lin. Ft.
Untreated Base Course	25 cu. yd.
Select Borrow	40 cu. yd.
Sprinkling	5 M. Gal.
Prime Coat	30 Gal.
A.C. Pavement - 2 1/2"	15 Tons
Type A Cast in Place Curb	130 Lin. Ft.
Regulatory & Warning Signs	11 Each
Destination Sign	1 Each
Traffic Signal System	Lump Sum

NOTE: Items and Quantities required to complete the installation include but are not limited to the above list.

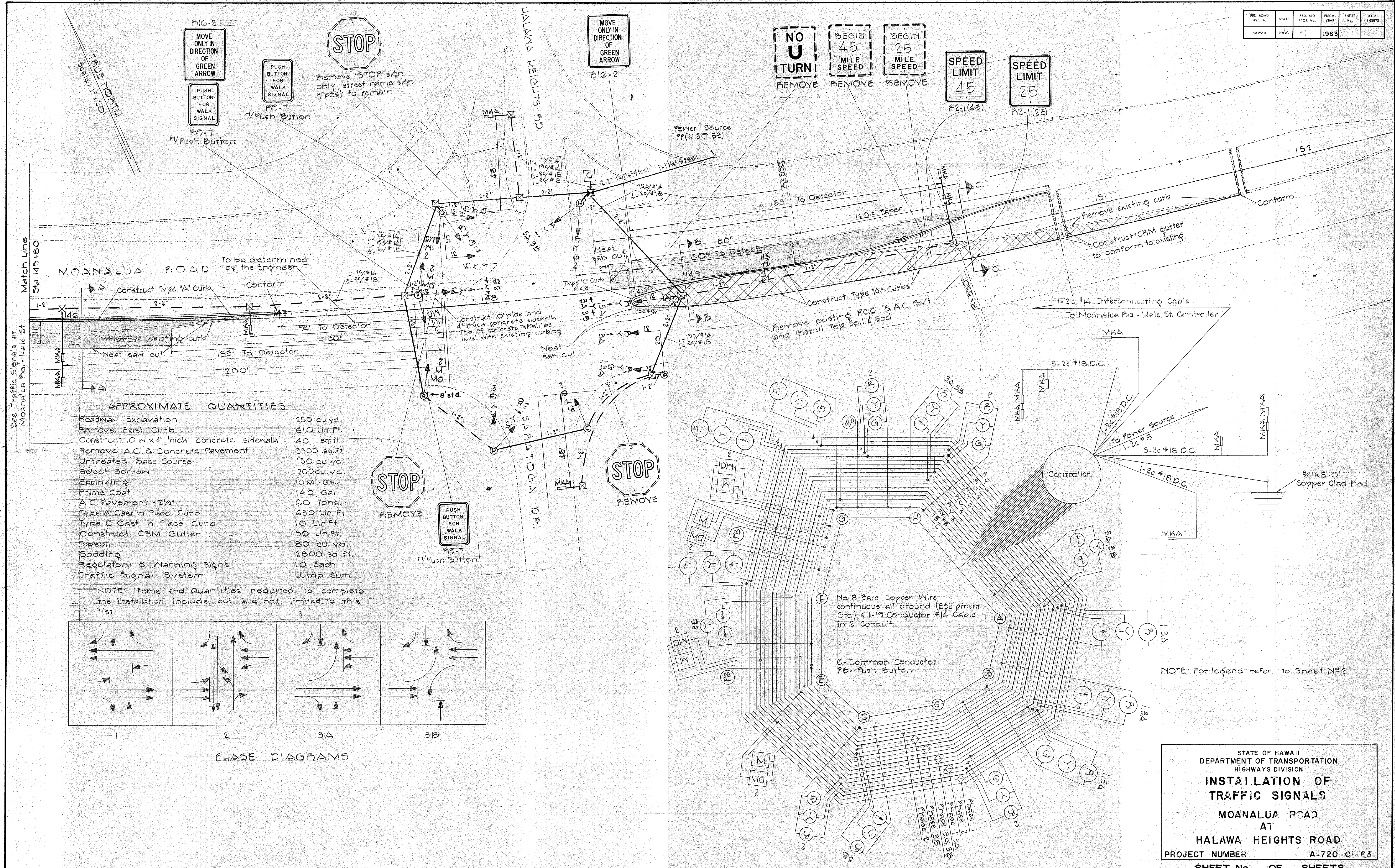


NOTE: For legend refer to Sheet N° 2

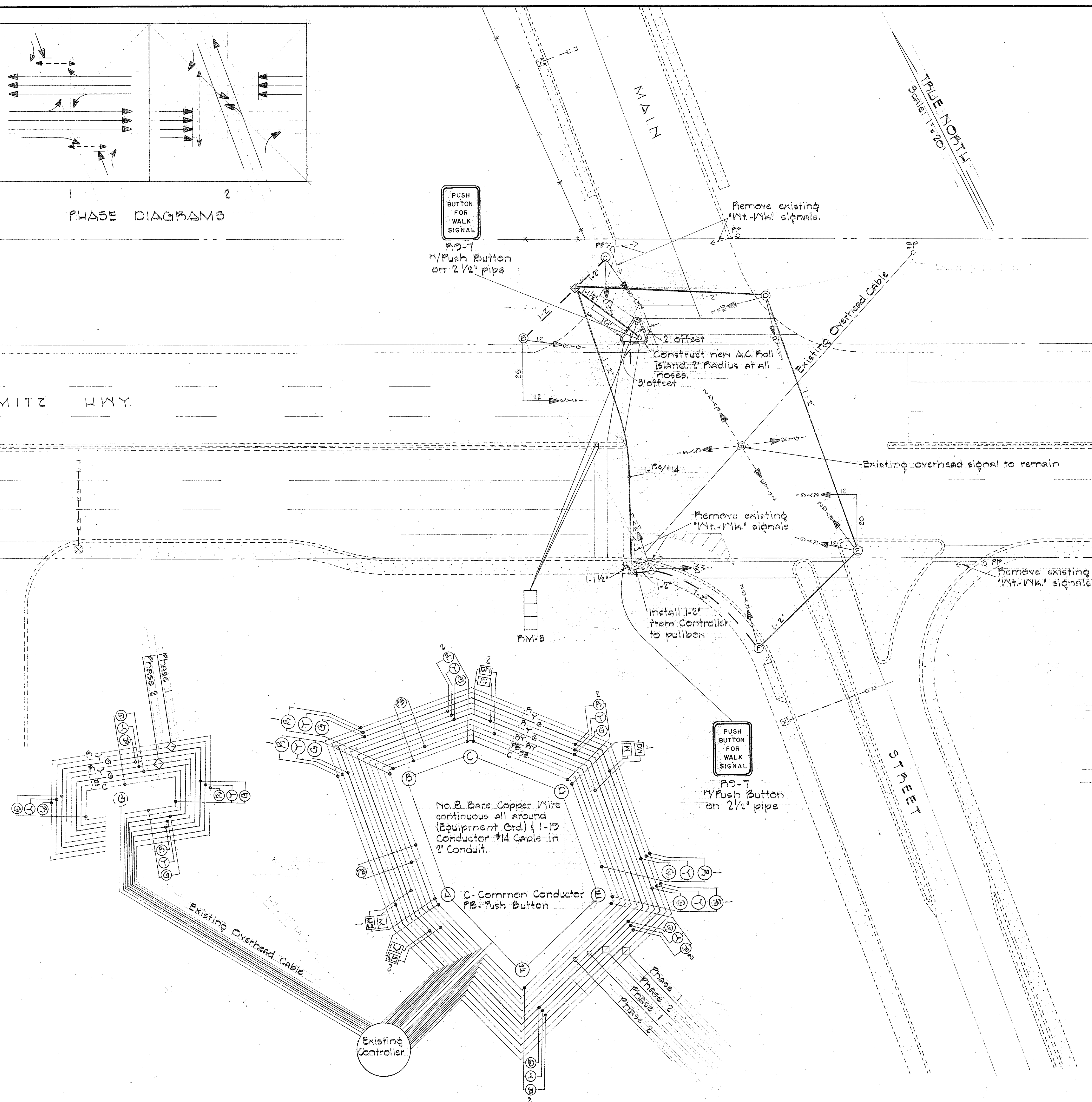
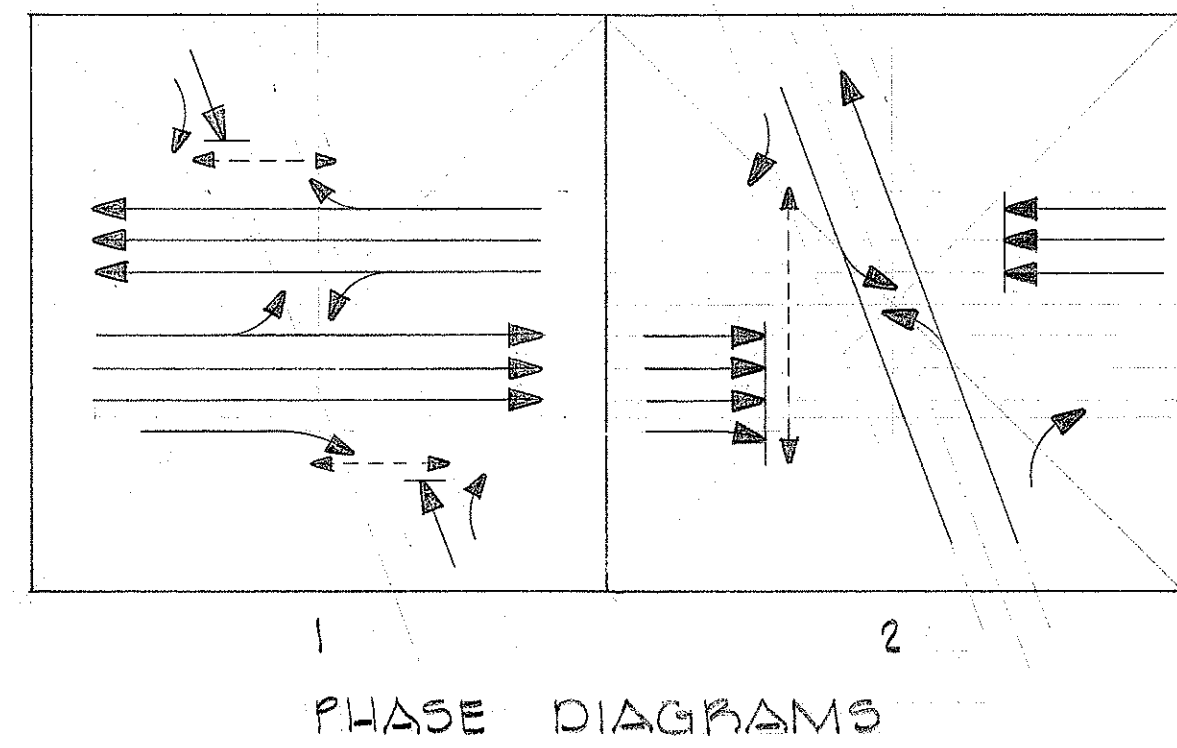
NOTE: For Destination Sign Detail See Sheet N&T

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
INSTALLATION OF
TRAFFIC SIGNALS
MOANALUA ROAD
AT
HALE STREET
PROJECT NUMBER A-720-01-63
SHEET No. OF SHEETS

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.		1963		



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1963		



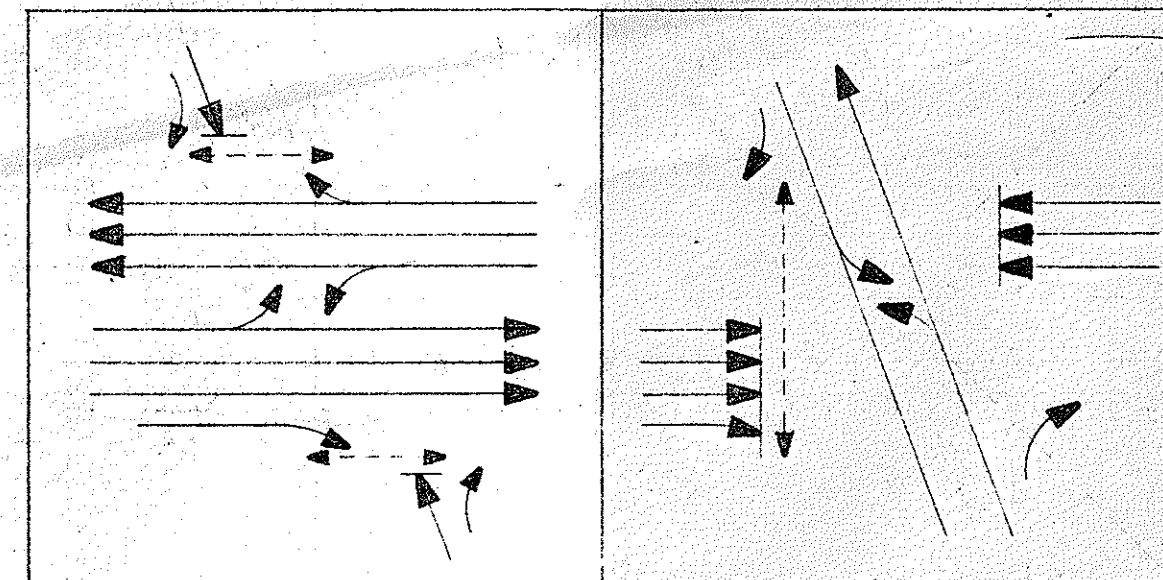
APPROXIMATE	QUANTITIES
Construct A.C. Roll Island	40 Lin Ft.
Remove Exist. "Wt. - Wk" Signals	6 sets
Regulatory & Warning Signs	3 Each
Traffic Signal System	Lump Sum

NOTE: Items and Quantities required to complete the installation include but are not limited to the above list.

NOTE: For legend refer to Sheet No 2

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
INSTALLATION OF
TRAFFIC SIGNALS
NIMITZ HIGHWAY
AT
MAIN STREET
PROJECT NUMBER A-92-01-63
SHEET No. OF SHEETS



PHASE DIAGRAMS

NIMITZ HWY.

MAIN

TRUE NORTH
Scale: 1"=20'

PUSH
BUTTON
FOR
WALK
SIGNAL

Telephone Box
(To be supplied
by State)

P.S.-7
1/2" Push Button
on 2 1/2" pipe

Remove existing
"Wt.-Wk." signals.

Construct new A.C. Roll
Island. 2' Radius at all
corners.

Existing Overhead Cable

Existing overhead signal to remain

Remove existing
"Wt.-Wk." signals

Remove existing
"Wt.-Wk." signals

Install 1/2" 2'
from Controller
to pullbox

Telephone Box
(To be supplied
by State)

PUSH
BUTTON
FOR
WALK
SIGNAL

P.S.-7
1/2" Push Button
on 2 1/2" pipe

No. 8 Bare Copper Wire
continuous all around
(Equipment Grd.) & 1-19
Conductor #14 Cable in
2" Conduit.

C-Common Conductor
P.B.-Push Button

Existing
Controller

APPROXIMATE QUANTITIES

Construct A.C. Roll Island	40 Lin Ft.
Remove Exist. "Wt.-Wk." Signals	6 sets
Regulatory & Warning Signs	8 Each
Traffic Signal System	Lump Sum

NOTE: Items and Quantities required to
complete the installation include but are not
limited to the above list.

REVISED: Nov. 20, 1963

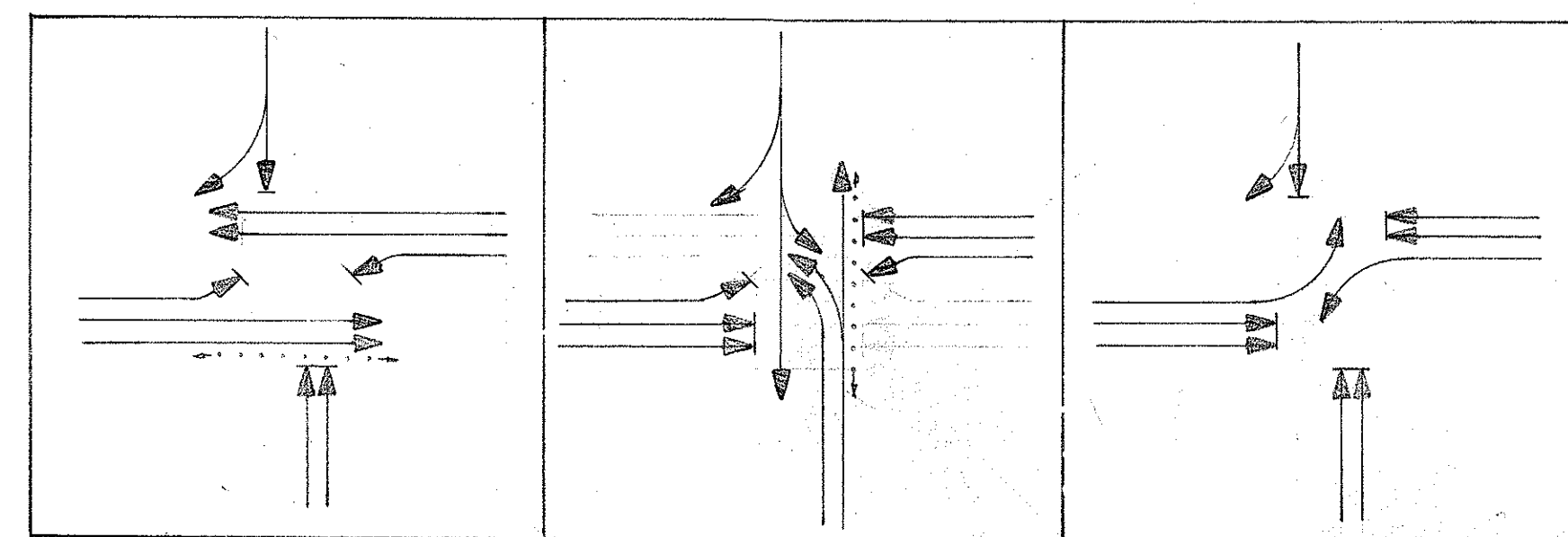
NOTE: For legend refer to Sheet M-2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INSTALLATION OF TRAFFIC SIGNALS

NIMITZ HIGHWAY
AT
MAIN STREET

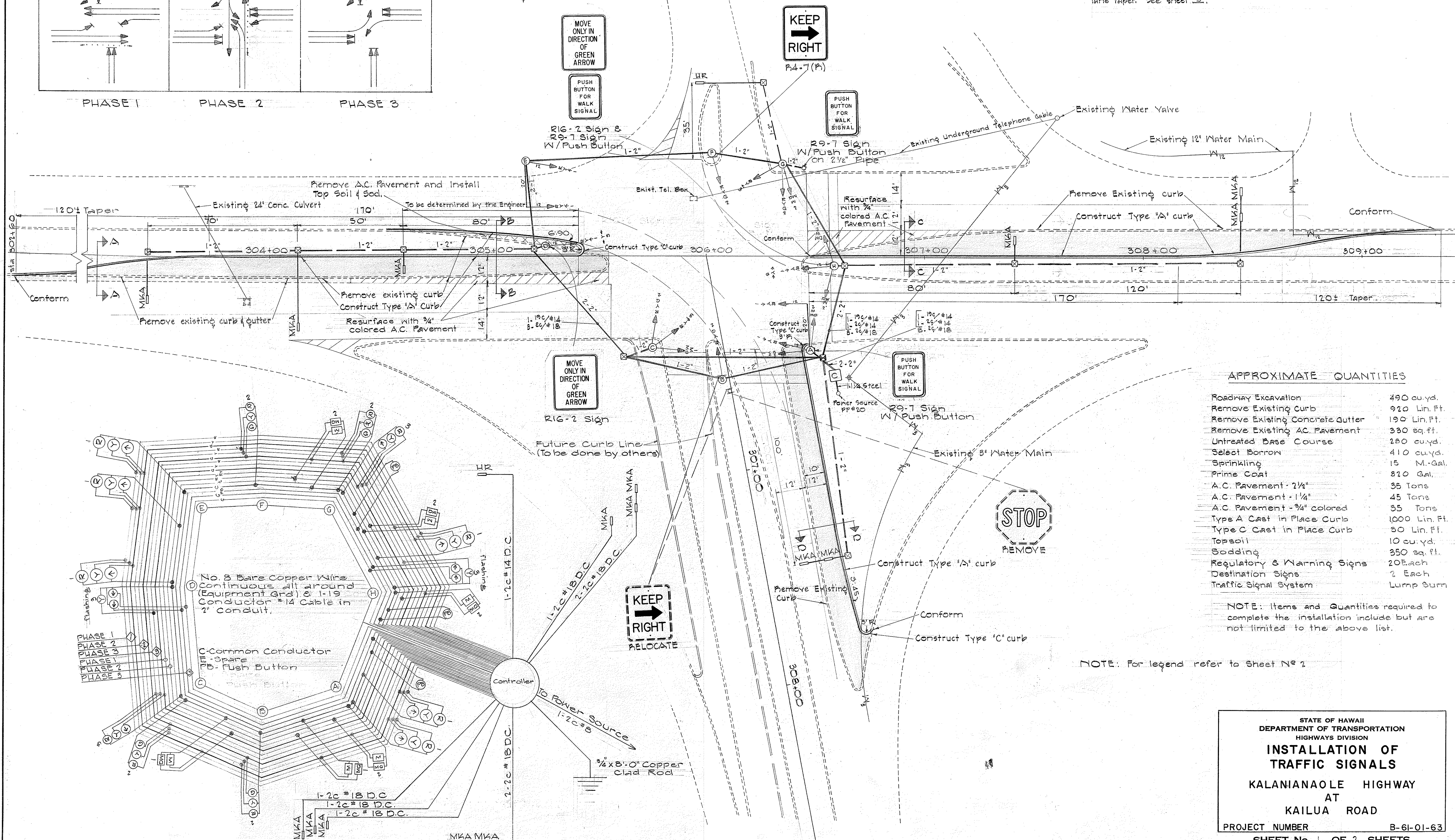
PROJECT NUMBER A-92-01-63
SHEET No. OF SHEETS



PHASE 1 PHASE 2 PHASE 3

NOTE:
12" Water Main is approx. 36" underground.
3" Water Main is between 6" to 18" underground.
Underground telephone cable is between 18" to 24" underground.

NOTE:
Deceleration Lane tapers same as Kailua Rd. - Ulumau Dr. deceleration lane taper. See sheet 2.



APPROXIMATE QUANTITIES

Roadway Excavation	490 cu. yd.
Remove Existing Curb	920 Lin. Ft.
Remove Existing Concrete Gutter	190 Lin. Ft.
Remove Existing A.C. Pavement	330 sq. ft.
Untreated Base Course	280 cu. yd.
Select Borrow	410 cu. yd.
Sprinkling	15 M. Gal.
Prime Coat	820 Gal.
A.C. Pavement - 2 1/4"	35 Tons
A.C. Pavement - 1 1/4"	45 Tons
A.C. Pavement - 3/4" colored	35 Tons
Type A Cast in Place Curb	1000 Lin. Ft.
Type C Cast in Place Curb	90 Lin. Ft.
Topsoil	10 cu. yd.
Sodding	350 sq. ft.
Regulatory & Warning Signs	20 Each
Destination Signs	2 Each
Traffic Signal System	Lump Sum

NOTE: Items and Quantities required to complete the installation include but are not limited to the above list.

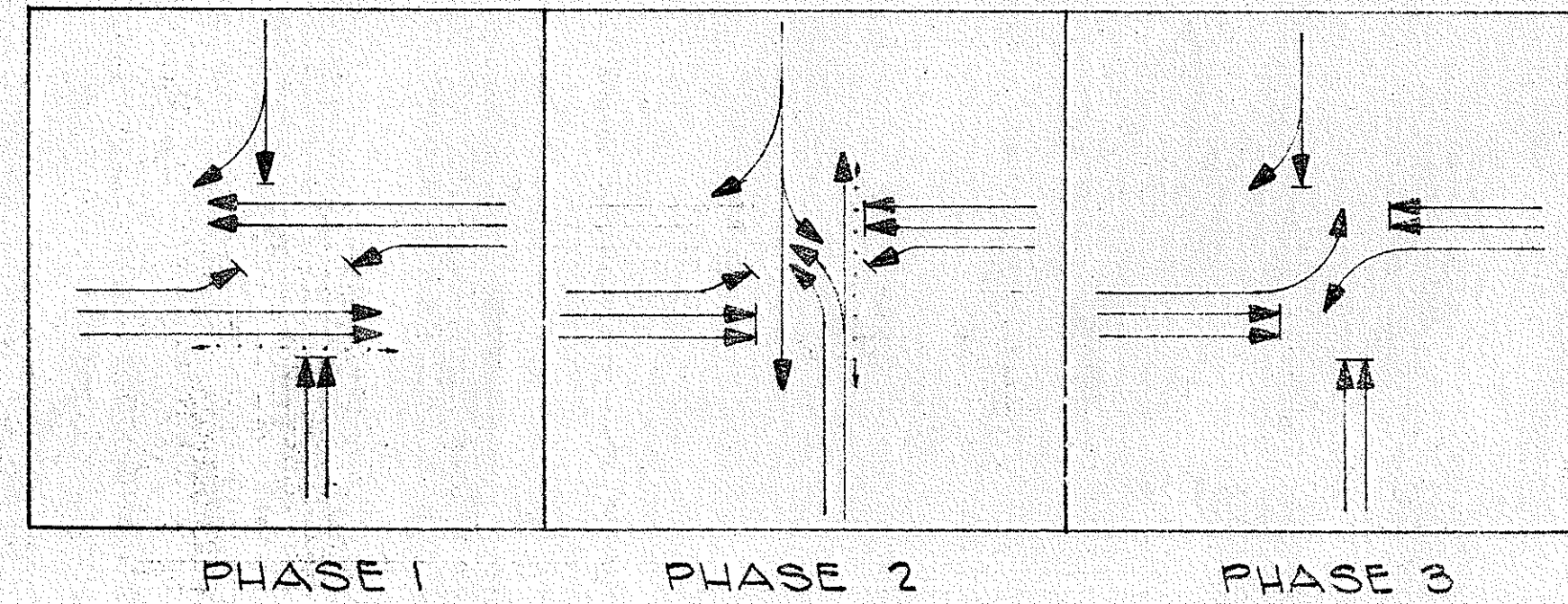
NOTE: For legend refer to Sheet No. 2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INSTALLATION OF TRAFFIC SIGNALS

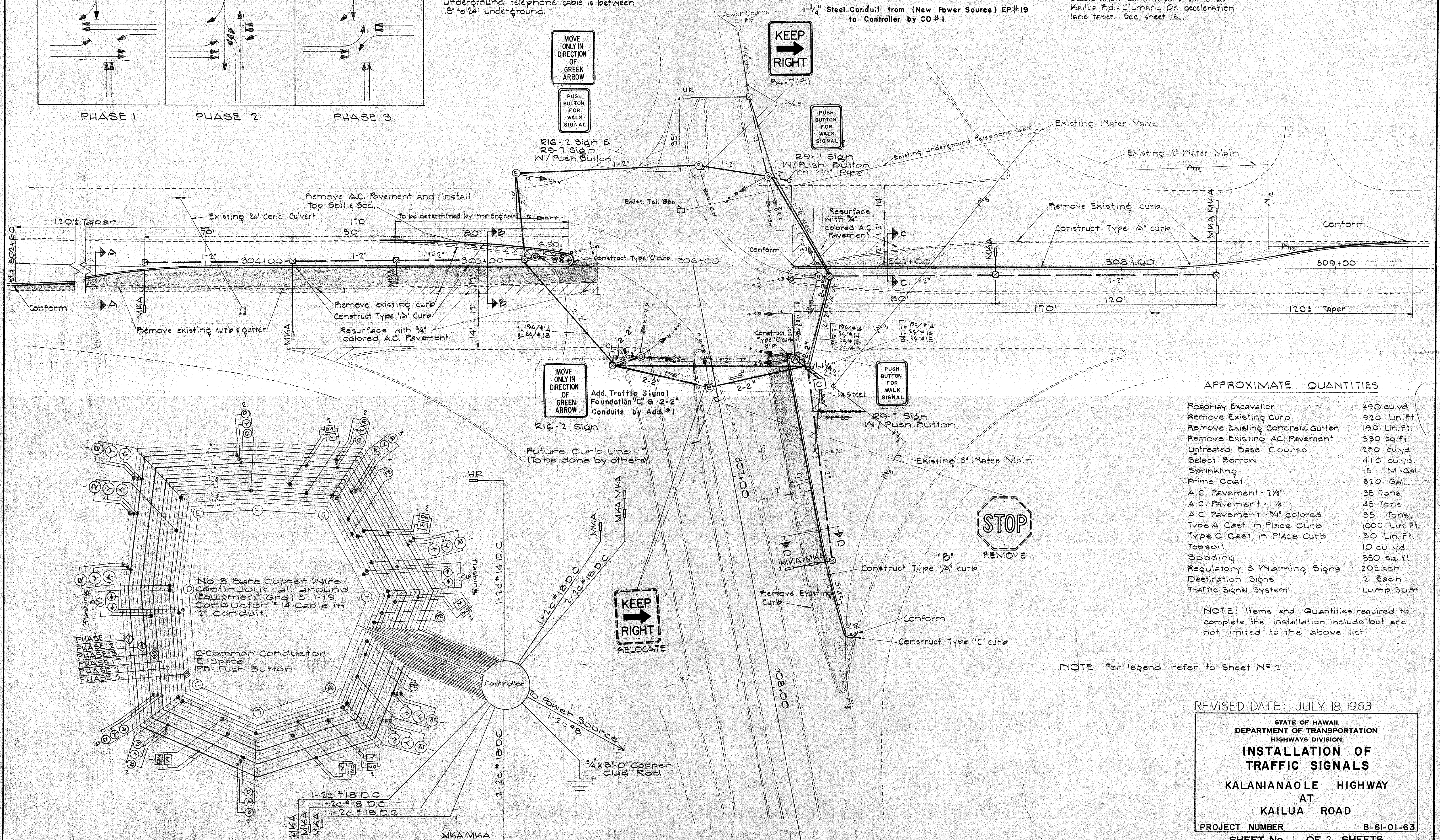
KALANIANA'OLE HIGHWAY
AT
KAILUA ROAD

PROJECT NUMBER B-61-01-63
SHEET No. 1 OF 2 SHEETS



NOTE:
12" Water Main is approx. 36" underground.
3" Water Main is between 6" to 18" underground.
Underground telephone cable is between 8" to 24" underground.

NOTE:
Deceleration Lane tapers same as Kailua Rd. - Uluamanu Dr. deceleration lane taper. See sheet 2.



APPROXIMATE QUANTITIES

Roadway Excavation	490 cu. yd.
Remove Existing Curb	920 Lin. Ft.
Remove Existing Concrete Gutter	190 Lin. Ft.
Remove Existing AC Pavement	380 sq. ft.
Untreated Base Course	280 cu. yd.
Select Borrow	410 cu. yd.
Sprinkling	15 M.-Gal.
Prime Coat	320 Gal.
A.C. Pavement - 2 1/2"	35 Tons
A.C. Pavement - 1 1/4"	45 Tons
A.C. Pavement - 3/4" colored	35 Tons
Type A Cast in Place Curb	1000 Lin. Ft.
Type C Cast in Place Curb	30 Lin. Ft.
Topsoil	10 cu. yd.
Sodding	350 sq. ft.
Regulatory & Warning Signs	20 Each
Destination Signs	2 Each
Traffic Signal System	Lump Sum

NOTE: Items and Quantities required to complete the installation include but are not limited to the above list.

NOTE: For legend refer to Sheet No. 2

REVISED DATE: JULY 18, 1963

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**INSTALLATION OF
TRAFFIC SIGNALS**

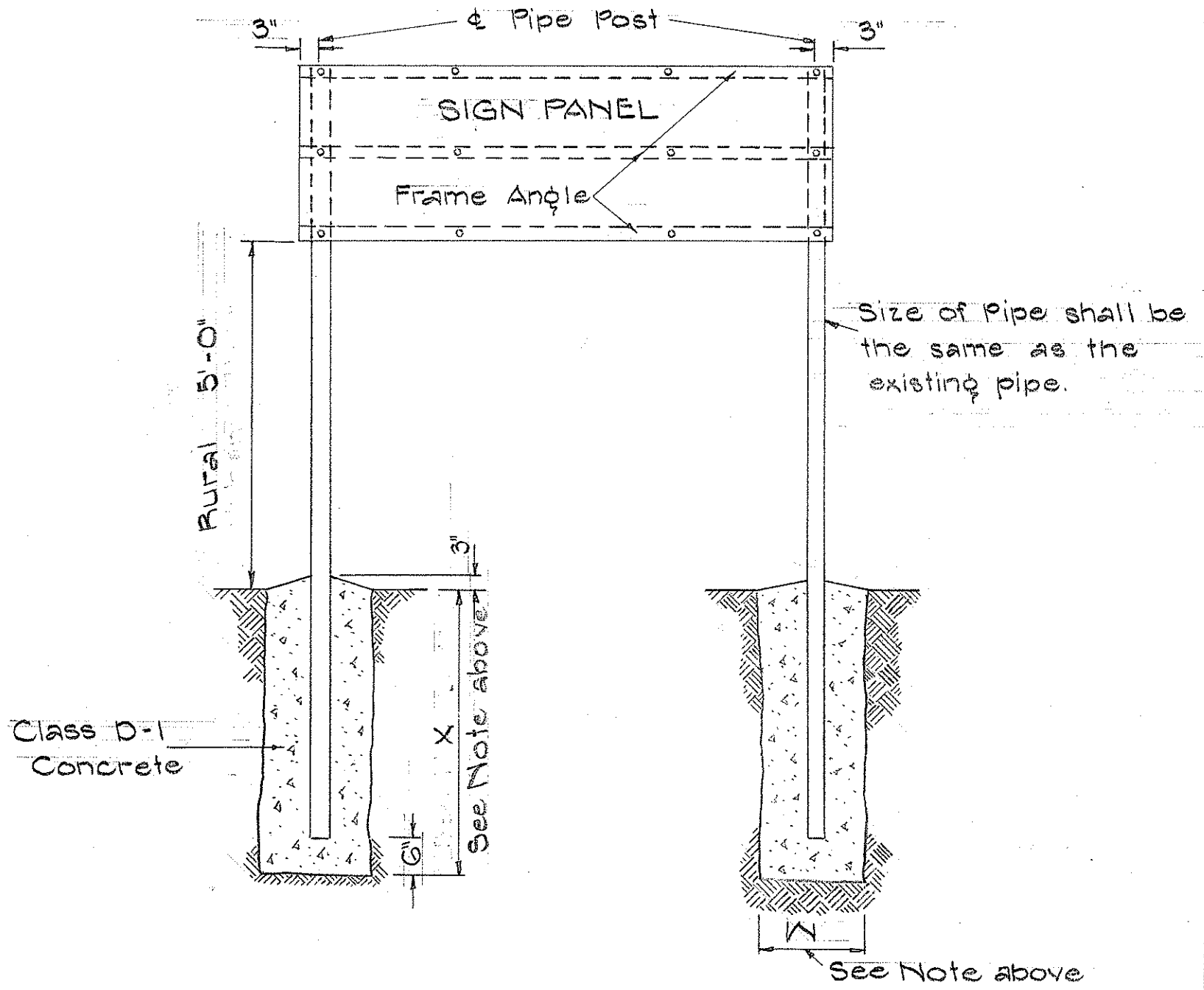
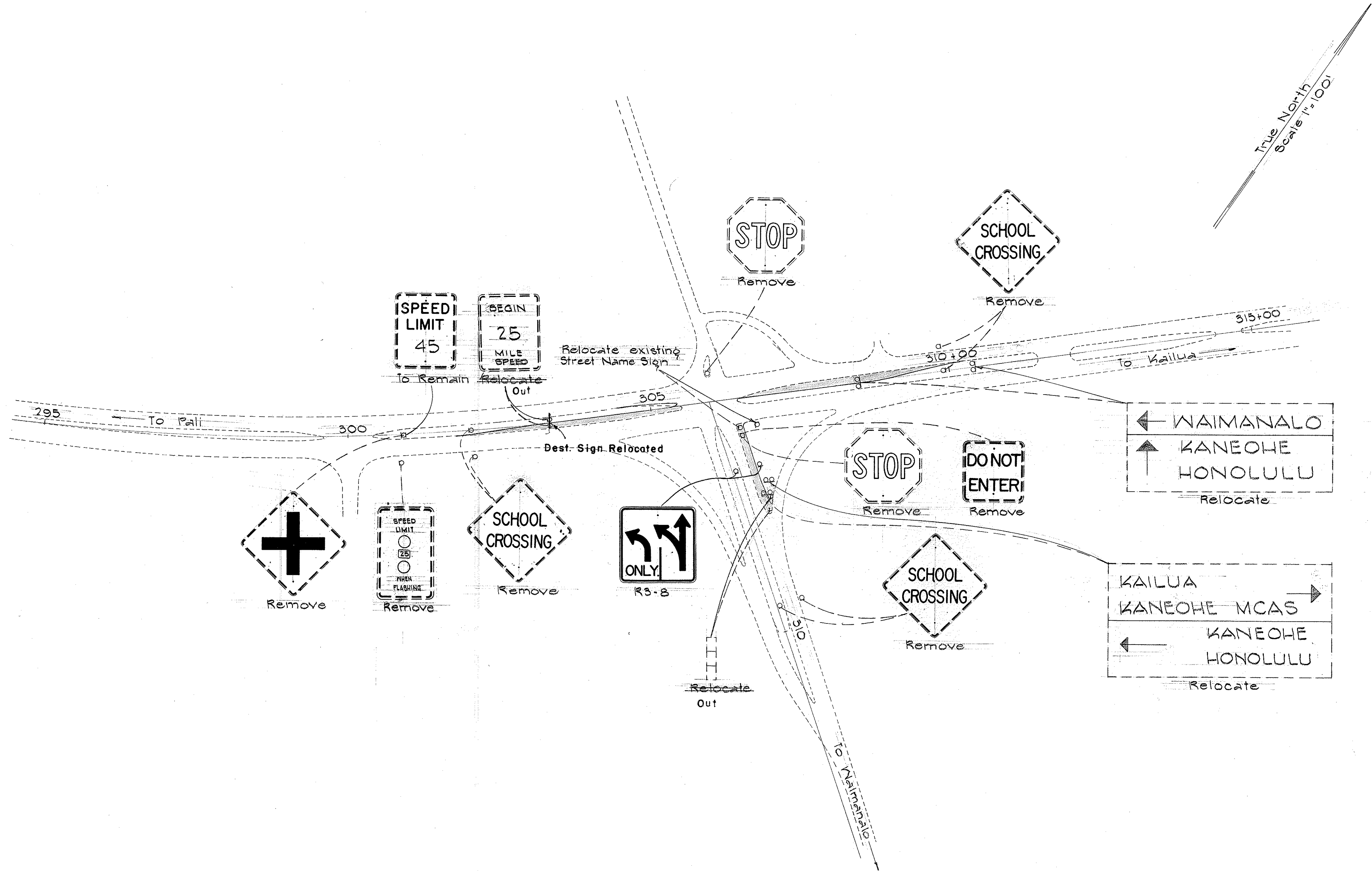
KALANIANA'OLE HIGHWAY
AT
KAILUA ROAD

PROJECT NUMBER B-61-01-63

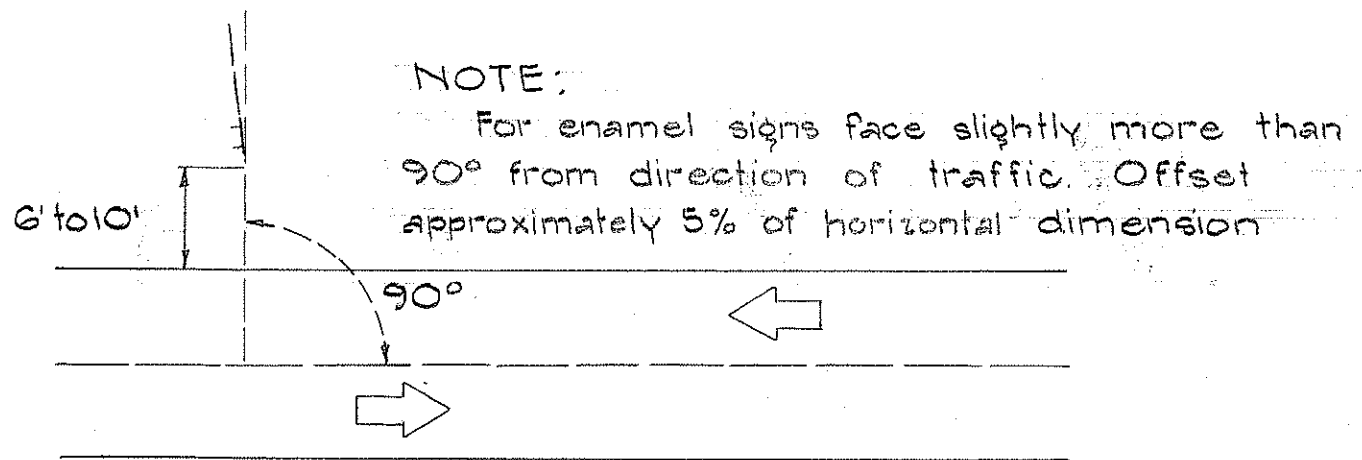
SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1963		

NOTE:
 With 3" Std. Pipe 7.58"
 W=1'-0" + X=4'-0"
 With 4" Std. Pipe 10.97"
 W=2'-0" + X=4'-0"



DESTINATION SIGNS ELEVATION



SIGN POSITION WITH RELATION TO DIRECTION OF TRAFFIC

DESTINATION SIGN DETAILS
 No Scale

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INSTALLATION OF
TRAFFIC SIGNALS
KALANIANA'OLE HIGHWAY
AT
KAILUA ROAD

PROJECT NUMBER B-61-01-63
SHEET No. 2 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1963		

APPROXIMATE QUANTITIES

Roadway Excavation	90 cu.yd.
Remove Exist. Curb	240 Lin.Ft.
Untreated Base Course	55 cu.yd.
Select Borrow	80 cu.yd.
Sprinkling	5 M.-Gal.
Prime Coat	130 Gal.
A.C. Pavement - 1 1/4"	15 Tons
A.C. Pavement - 3/4" colored	20 Tons
Type A Cast in Place Curb	240 Lin.Ft.
Adjusting Water Manhole	Lump Sum
Regulatory & Warning Signs	1 Each

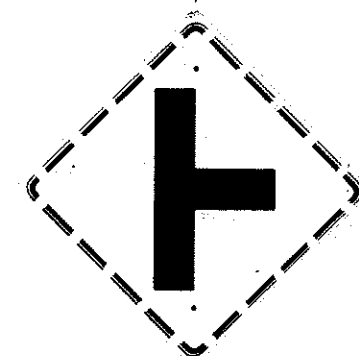
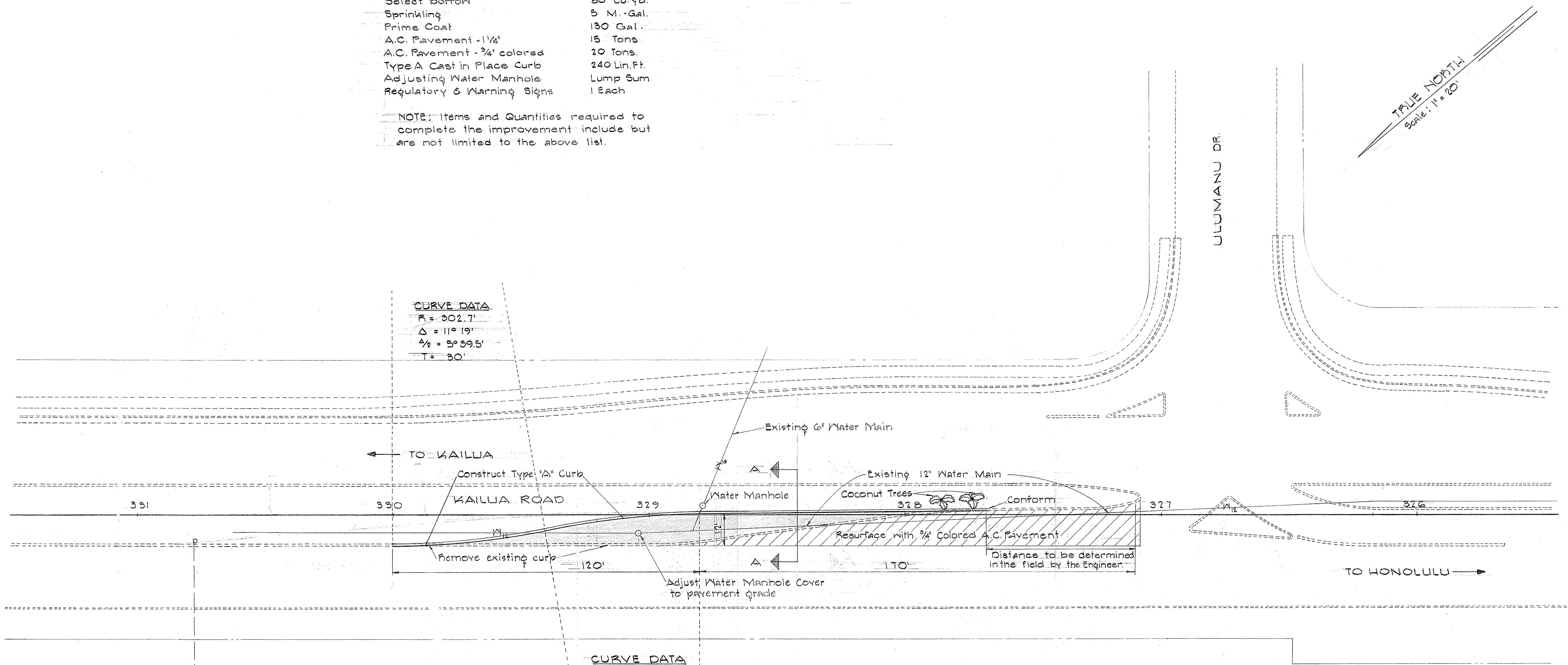
NOTE: Items and Quantities required to complete the improvement include but are not limited to the above list.

CURVE DATA

R = 302.7'
 $\Delta = 11^\circ 19'$
 $\Delta/2 = 5^\circ 39.5'$
T = 30'

CURVE DATA

R = 302.7'
 $\Delta = 11^\circ 19'$
 $\Delta/2 = 5^\circ 39.5'$
T = 30'



TO REMAIN

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

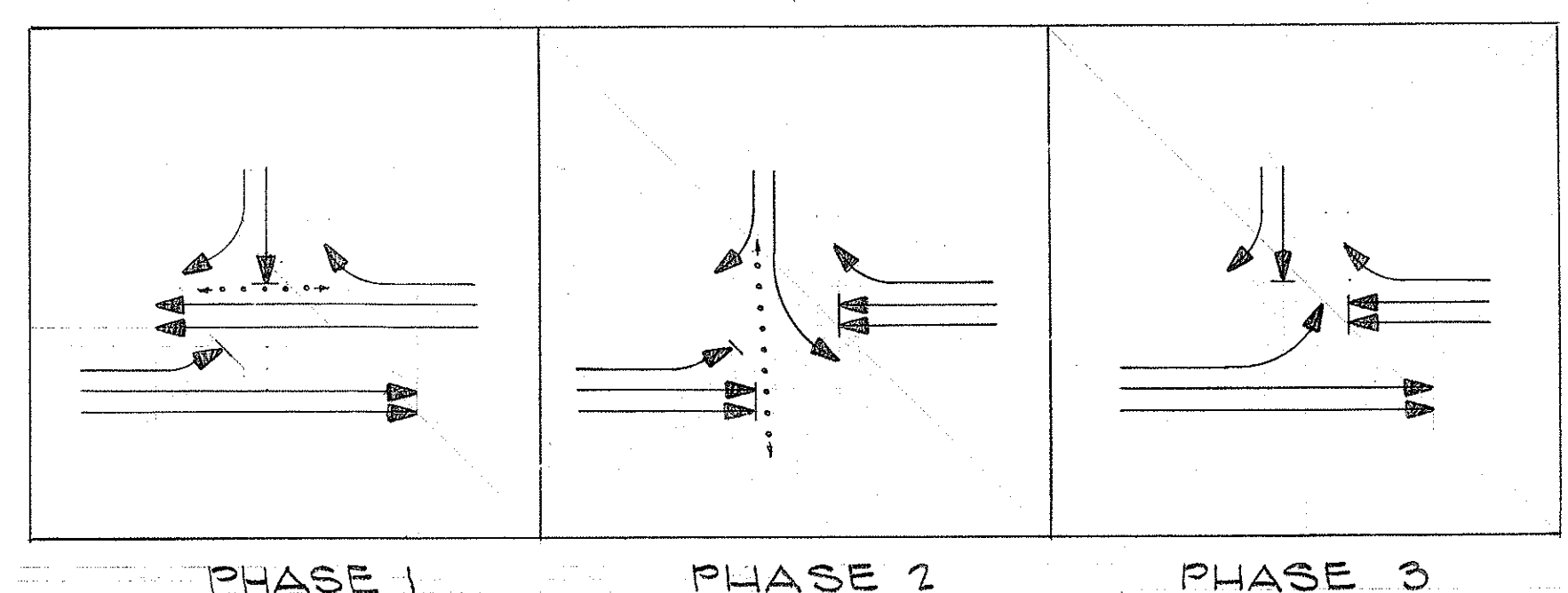
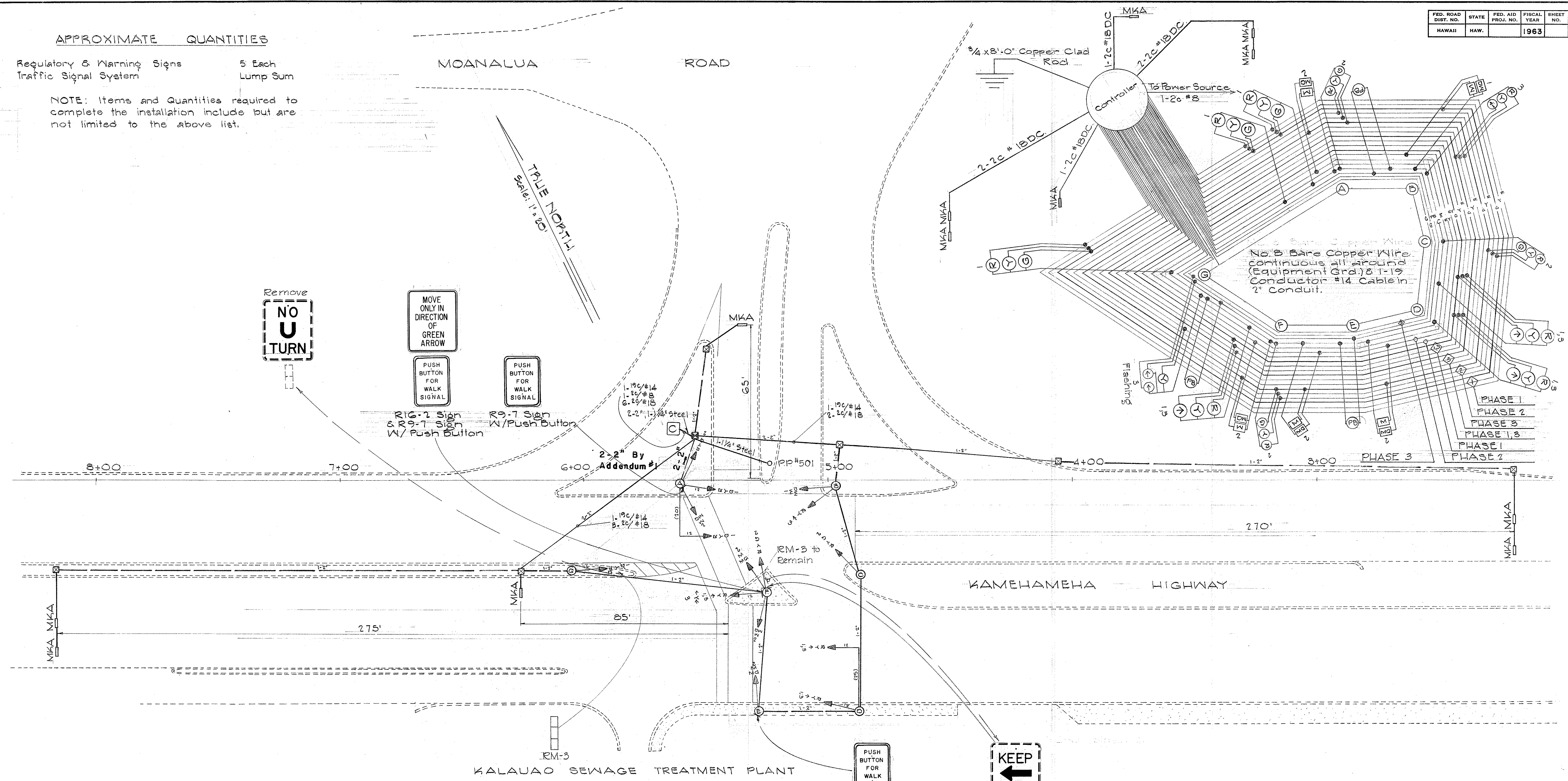
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY IMPROVEMENT
KAILUA ROAD
AT
ULUMANU DRIVE
PROJECT NUMBER B-61-01-63
SHEET No. OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1963		

APPROXIMATE QUANTITIES

Regulatory & Warning Signs 5 Each
Traffic Signal System Lump Sum

NOTE: Items and Quantities required to complete the installation include but are not limited to the above list.



Relocate "Keep Left" Sign to Traffic Signal Standard and cut post 2" above top of RM-3. Above Sign left in original location due to lack of space on Signal Light Std.

NOTE: For legend refer to Sheet No. 2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

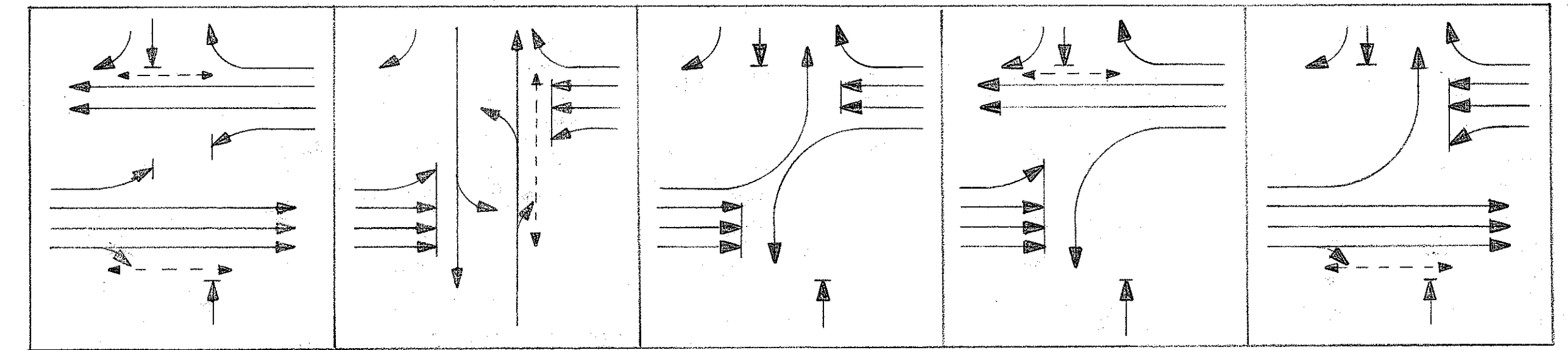
**INSTALLATION OF
TRAFFIC SIGNALS**

KAMEHAMEHA HIGHWAY
AT
MOANALUA ROAD

PROJECT NUMBER B-90-01-63
SHEET No. OF SHEETS

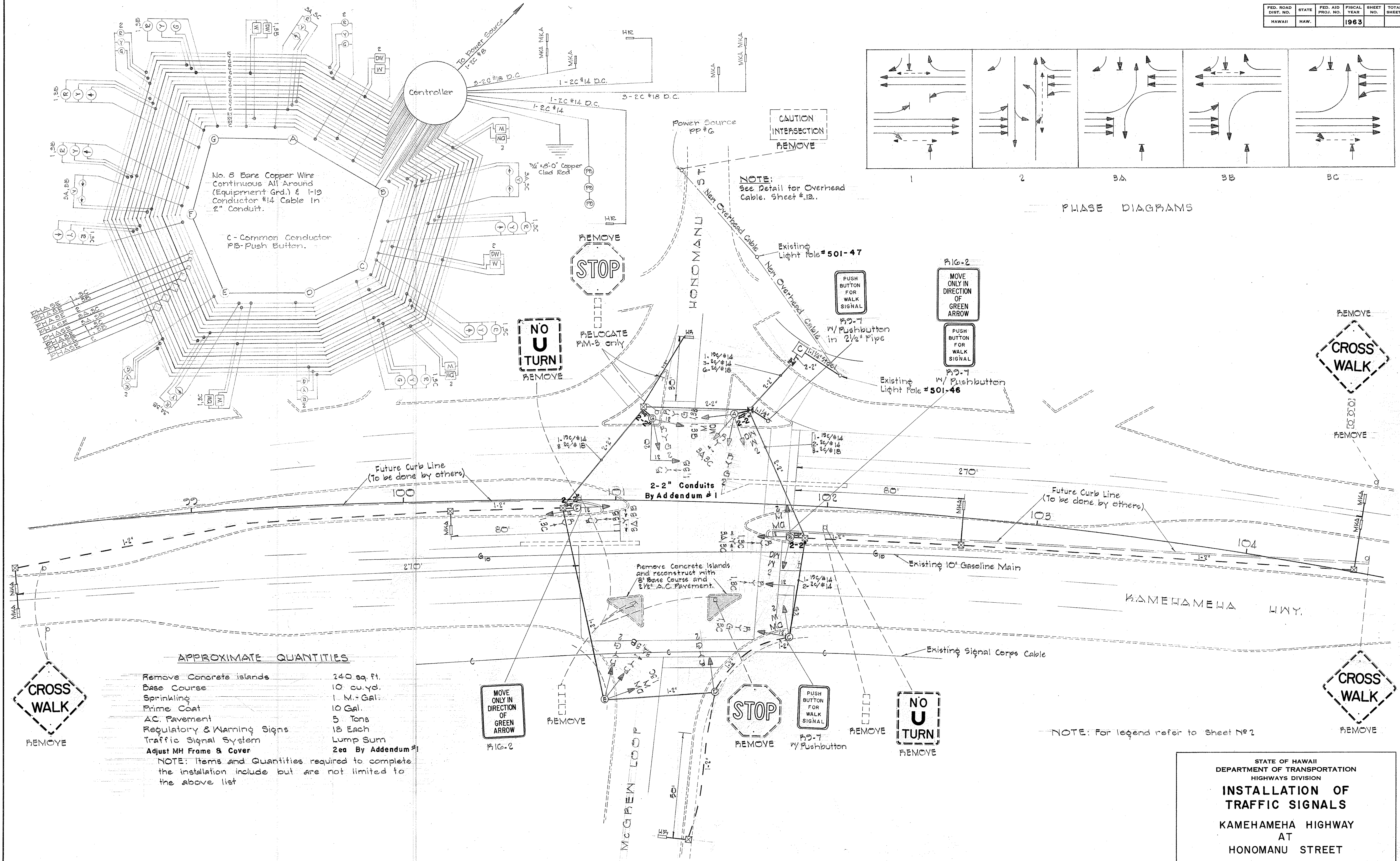
Traffic Section file

MOANALUA ROAD



PHASE DIAGRAMS

NOTE: See Detail for Overhead Cable. Sheet #12.



APPROXIMATE QUANTITIES

- | | |
|----------------------------|--------------------|
| Remove Concrete Islands | 240 sq. ft. |
| Base Course | 10 cu. yd. |
| Sprinkling | 1 M. Gal. |
| Prime Coat | 10 Gal. |
| A.C. Pavement | 5 Tons |
| Regulatory & Warning Signs | 18 Each |
| Traffic Signal System | Lump Sum |
| Adjust MH Frame & Cover | 2ea By Addendum #1 |
- NOTE: Items and Quantities required to complete the installation include but are not limited to the above list

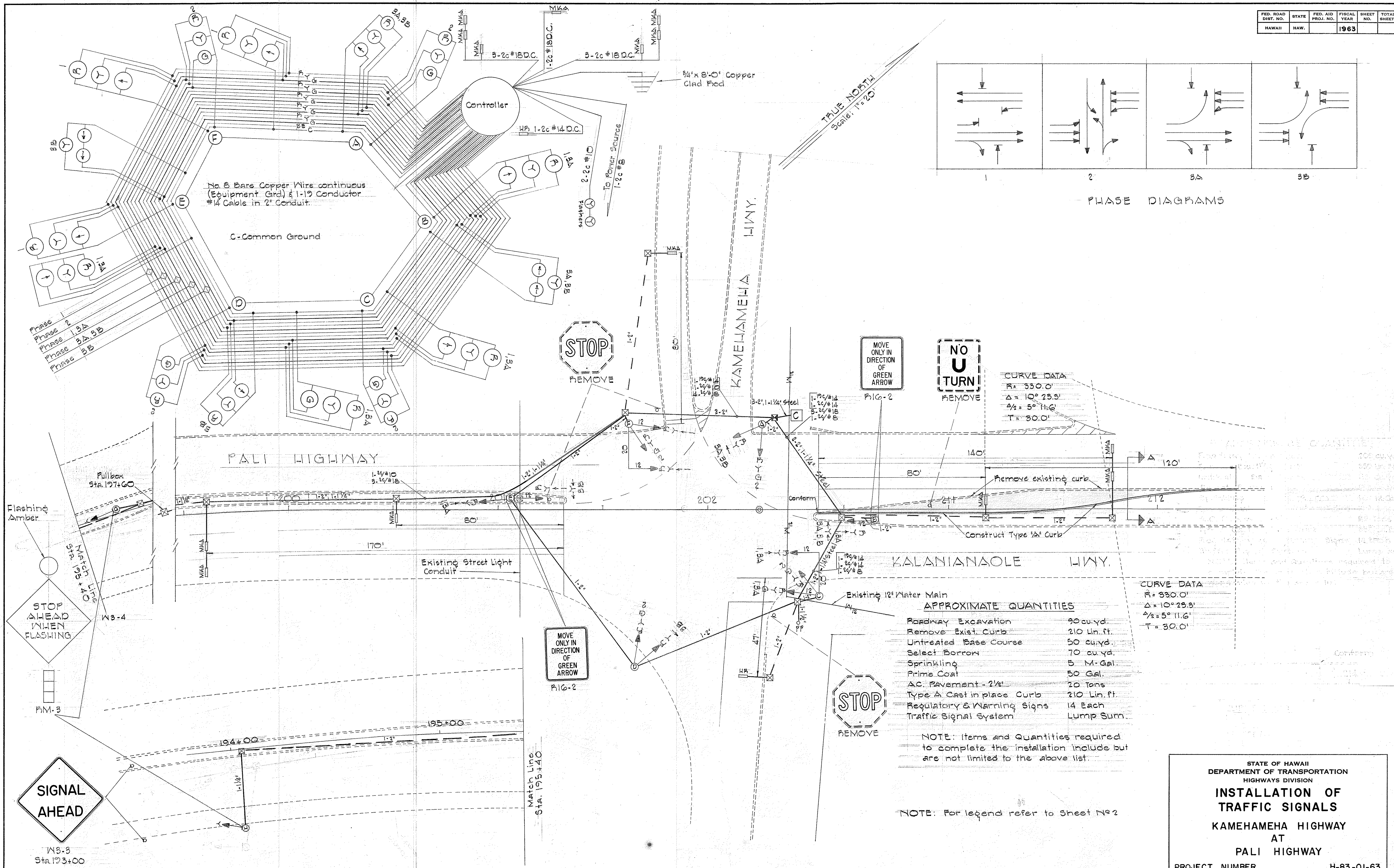
DATE: _____
 SURVEYED BY: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 No. _____

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**INSTALLATION OF
 TRAFFIC SIGNALS**

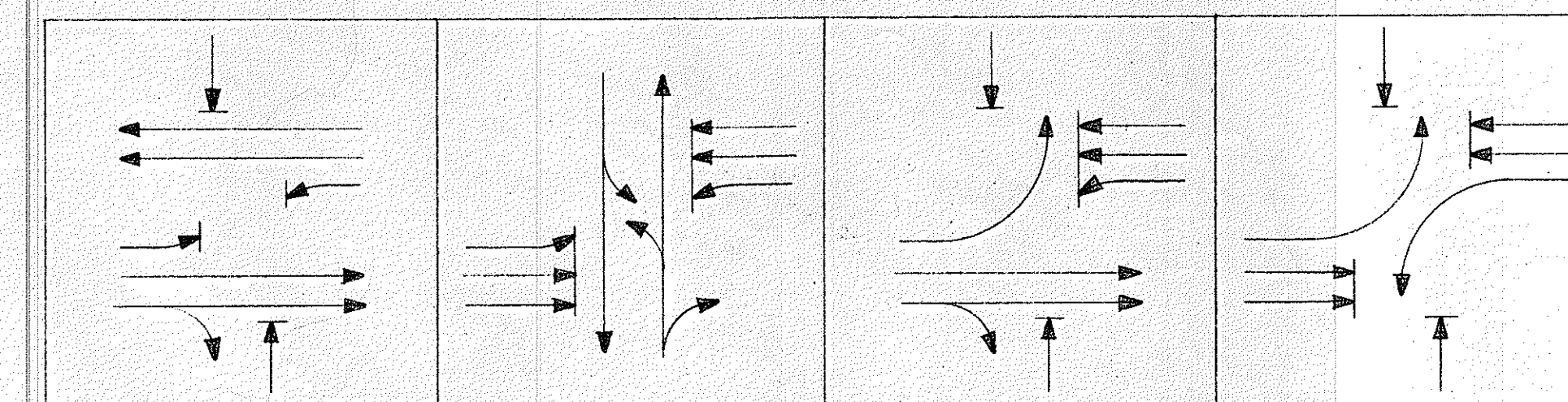
KAMEHAMEHA HIGHWAY
 AT
 HONOMANU STREET

PROJECT NUMBER B-90-02-63
 SHEET No. OF SHEETS

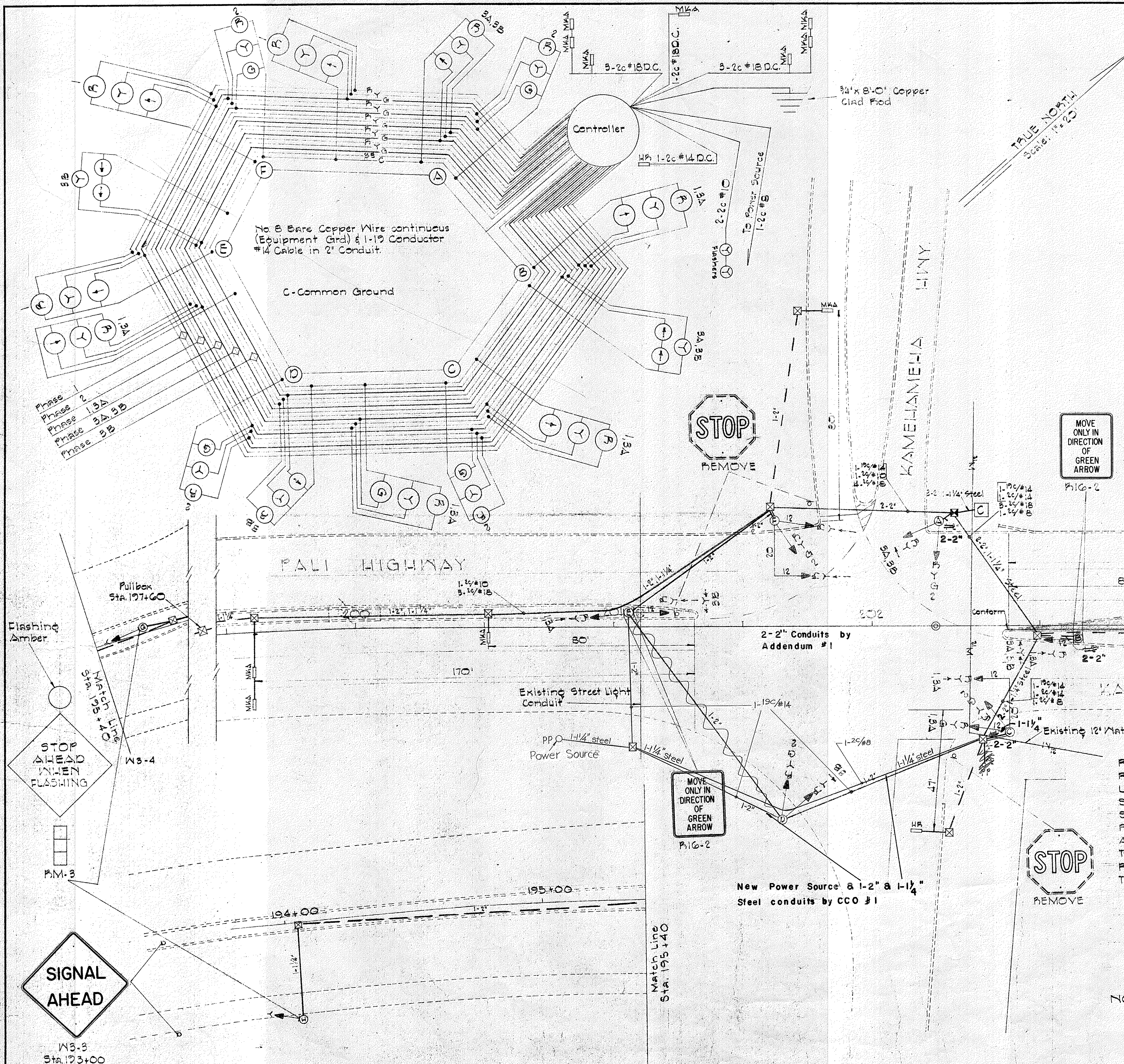


SURVEY PLOTTED BY: _____ DATE: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 NOTE BOOK: _____
 CHECKED BY: _____
 No. _____

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**INSTALLATION OF
 TRAFFIC SIGNALS**
 KAMEHAMEHA HIGHWAY
 AT
 PALI HIGHWAY
 PROJECT NUMBER H-83-01-63
 SHEET No. OF SHEETS



PHASE DIAGRAMS



CURVE DATA
 $R = 330.0'$
 $\Delta = 10^\circ 23.3'$
 $\frac{1}{2}\Delta = 5^\circ 11.6'$
 $T = 30.0'$

APPROXIMATE QUANTITIES

Roadway Excavation	90 cu. yd.
Remove Exist. Curb	210 Lin. ft.
Untreated Base Course	50 cu. yd.
Select Borrow	70 cu. yd.
Sprinkling	5 M. Gal.
Prime Coat	50 Gal.
A.C. Pavement - 2 1/2"	20 Tons
Type A Cast in place Curb	210 Lin. ft.
Regulatory & Warning Signs	14 Each
Traffic Signal System	Lump Sum

NOTE: Items and Quantities required to complete the installation include but are not limited to the above list.

NOTE: For legend refer to Sheet No. 2

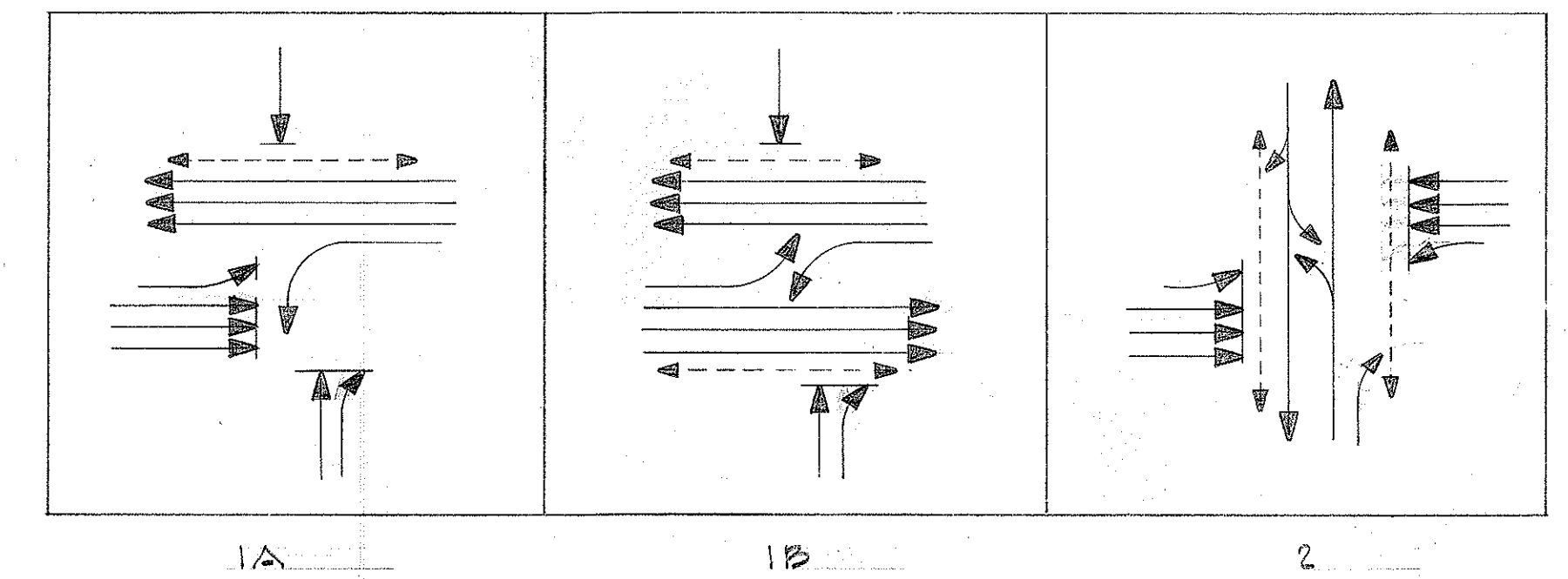
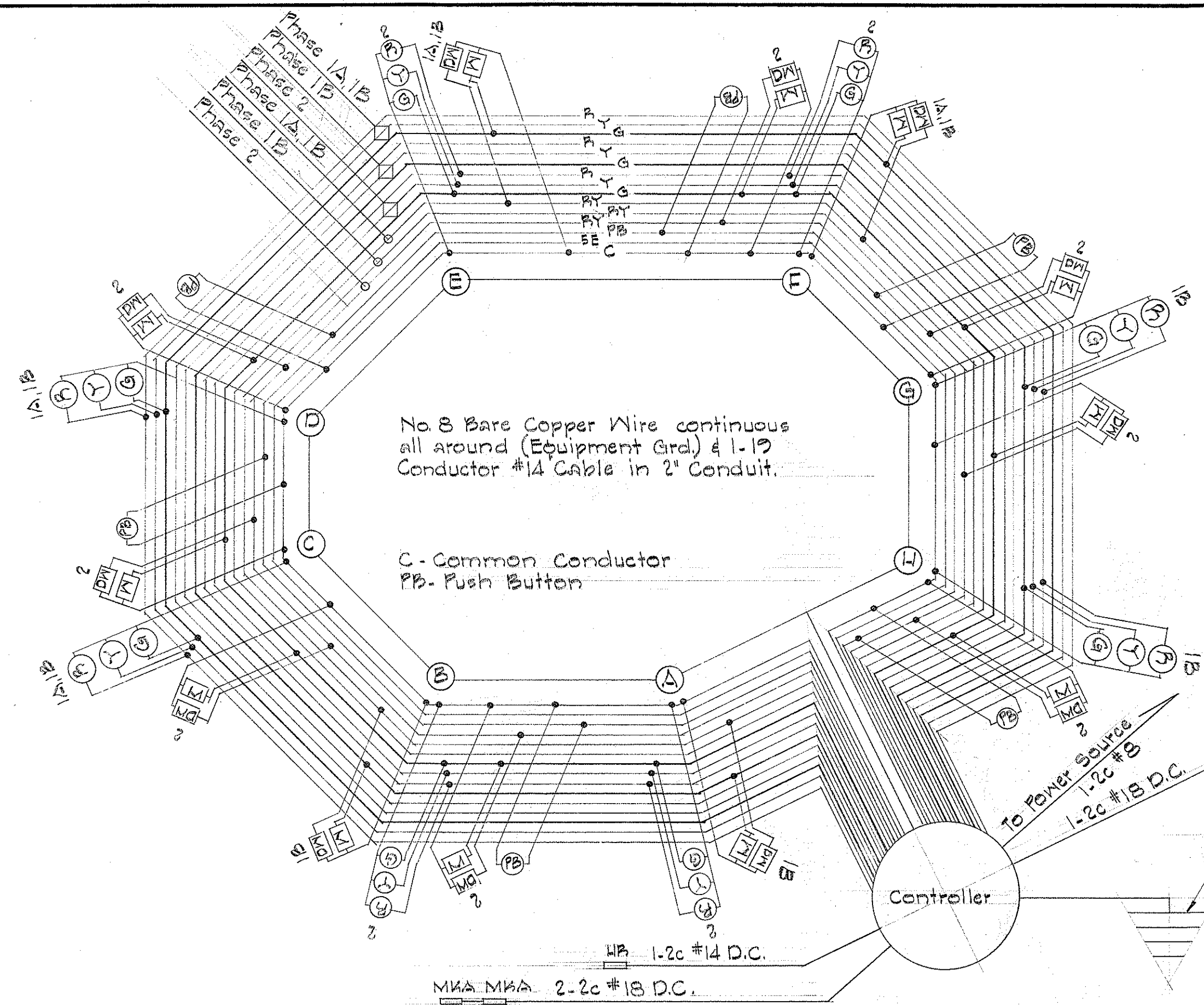
REVISED DATE: JULY 18, 1963

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

INSTALLATION OF TRAFFIC SIGNALS

KAMEHAMEHA HIGHWAY
 AT
 PALI HIGHWAY

PROJECT NUMBER H-83-01-63
 SHEET No. OF SHEETS



PHASE DIAGRAMS

APPROXIMATE QUANTITIES

Regulatory & Warning Signs	9 Each
Traffic Signal System	Lump Sum

NOTE: Items and Quantities required to complete the installation include but are not limited to the above list.

NOTE: For legend refer to Sheet No 2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**INSTALLATION OF
TRAFFIC SIGNALS**

MAIN STREET
AT
PUNENE AVENUE

PROJECT NUMBER B-32-01-63
SHEET No. OF SHEETS