

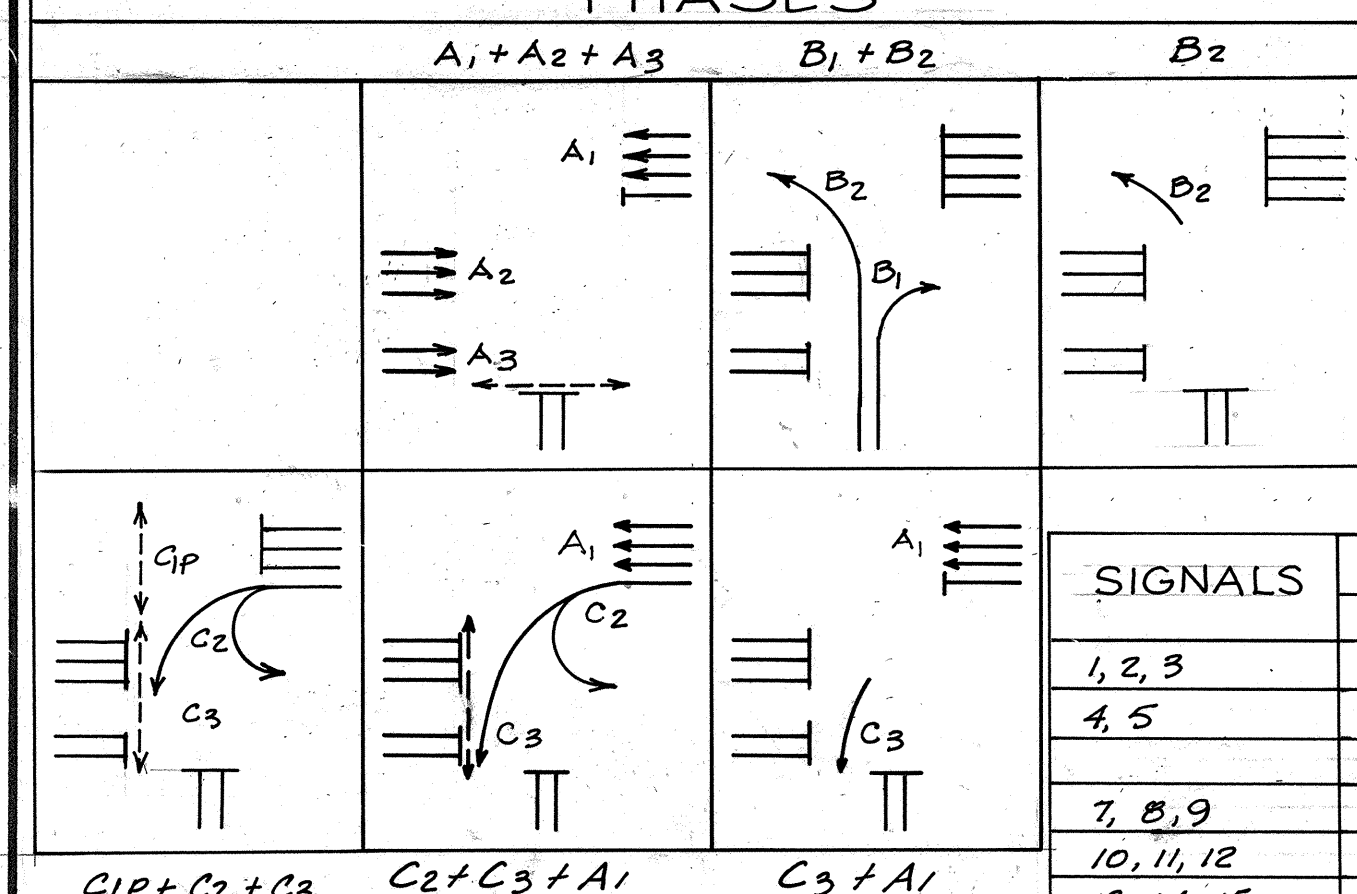
LEGEND

- ▷ RELOCATED SIGNAL
- ▷ EXISTING SIGNAL
- EXISTING CONTROLLER
- ⊠ RELOCATED CONTROLLER
- EXISTING PULLBOX
- NEW PULLBOX
- EXISTING SIGNAL POST
- SIGNAL POST OR POLE IN PLACE
- ⊗ NEW SIGNAL POST
- ⊗ NEW SIGNAL POLE WITH MAST ARM
- NEW OR RELOCATED PED SIGNAL
- ⊠ PED SIGNAL IN PLACE
- ▽ EXISTING CONDUIT
- NEW 2" PVC CONDUIT (SCHEDULE 80)
- SPAN WIRE IN PLACE
- NEW OR RELOCATED SPAN WIRE
- ← EXISTING PAVEMENT ARROW
- ← NEW PAVEMENT ARROW
- EXISTING LOOP DETECTOR
- ⊠ EXISTING LOOP DETECTOR
- PPB PEDESTRIAN PUSHBUTTON (DIRECTION) W/SIGN
- NEW 2" PVC CONDUIT (SCHEDULE 40)

GENERAL NOTES

- ALL SIGNAL POSTS AND POLES, SIGNAL HEADS AND SIGNAL HARDWARE AT SIGNALIZED INTERSECTIONS WITHIN PROJECT LIMITS ARE THE PROPERTY OF THE STATE OF HAWAII.
- ALL CABINETS, CONTROLLERS, LOOP DETECTORS AND COORDINATION UNITS REQUIRED FOR ADJUSTING SIGNAL SYSTEMS SHALL BE SURPLUS EQUIPMENT IN PLACE AT OR RELOCATED FROM EXISTING SIGNAL SYSTEMS WITHIN PROJECT LIMITS.
- ALL MAST ARMS AND POLES, 10-FOOT STANDARD POLES, MISCELLANEOUS HARDWARE, CABLE, LOOP WIRE AND LEAD-IN WIRE REQUIRED FOR ADJUSTING SIGNAL SYSTEMS THAT IS NOT IN PLACE OR REUSABLE SHALL BE CONTRACTOR FURNISHED AS APPROVED BY THE ENGINEER.
- ALL SIGNAL POLES, SIGNAL HEADS AND MISCELLANEOUS HARDWARE NOT RELOCATED OR REUSED IN ADJUSTED SIGNAL SYSTEMS SHALL BE REMOVED AND STORED AS DIRECTED BY THE ENGINEER.
- FINAL HOOKUP AND TIMING OF SIGNAL SYSTEMS BY DEPARTMENT OF TRANSPORTATION CITY AND COUNTY OF HONOLULU.

PHASES



SIGNALS

	A1	A2	A3	B1	B2	C1	C2	C3	A1+A2+A3	B1+B2	C1+C2+C3	A1+A2+A3+B1+B2+C1+C2+C3
1, 2, 3	↑	R	R	R	R	R	R	R	↑	R	R	↑
4, 5	R	↑	R	R	R	R	R	R	R	↑	R	↑
7, 8, 9	R	R	↑/G	R	R	R	R	↑/G	R	R	R	↑/G
10, 11, 12	R	R	R	↑/G	R	R	R	R	↑/G	R	R	↑/G
13, 14, 15	R	R	R	R	↑/G	R	R	R	R	↑/G	R	↑/G
16	R	R	R	R	R	↑	R	R	R	↑	R	↑
6, 17	R	R	R	R	R	R	G/←	R	R	G/←	G/←	G/←
20, 21, 22, 23	DW	DW	DW	DW	DW	DW	↑	R	R	↑	R	↑
24, 25	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	W/FDW	DW	W/FDW

CABLE SCHEDULE

Legend	Cable	Conduit
▷	1-26c #14	2"
▷	1-26c #14	Exist. 2"
▷	1-2c #14	2"
▷	6-2c #14	Exist. 2"
▷	Service	Exist. 2"
▷	1-26c #14	2"
▷	3-2c #14	2"
▷	Service	Exist. 2"
▷	2-2c #14	2"
▷	1-26c #14	2"
▷	2-2c #14	2"
▷	Exist. 2-19c #14	Overhead
▷	1-26c #14	2"
▷	1-26c #14	2"
▷	3-2c #14	2"
▷	1-2c #14	Exist. 2"
▷	Interconnect	Exist. 2"
▷	Service	Exist. 2"
▷	3-2c #14	Exist. 2"
▷	Interconnect	Exist. 2"

Type B @ 90' Lt. H-1 &
Sta. 166+50 Top El. 296
10' Std. Post @ 83' Lt.
H-1 & Sta. 166+49

10' Std. Post @ 20' Lt.
H-1 & Sta. 166+50

Type B @ 19' Lt. H-1 &
Sta. 166+50 Top El. 306

Type B @ 13' Rt. H-1 &
Sta. 164+47 Top El. 29.0

Type B @ 4' Lt. H-1 &
Sta. 166+50 Top El. 30.4

Type B @ 104' Rt.
H-1 & Sta. 166+35
Top El. = 27.6

6-6'x8' Loop Detector

10' Std. Post @ 104' Rt.
H-1 & Sta. 166+29

2-6'x6' Loop Detectors

10' Std. Post @ 152' Rt.
H-1 & Sta. 166+26

Type B @ 157' Rt.
H-1 & Sta. 166+28
Top El. = 26.7

Type B @ 196' Rt. H-1 &
Sta. 166+56 Top El. = 26.1

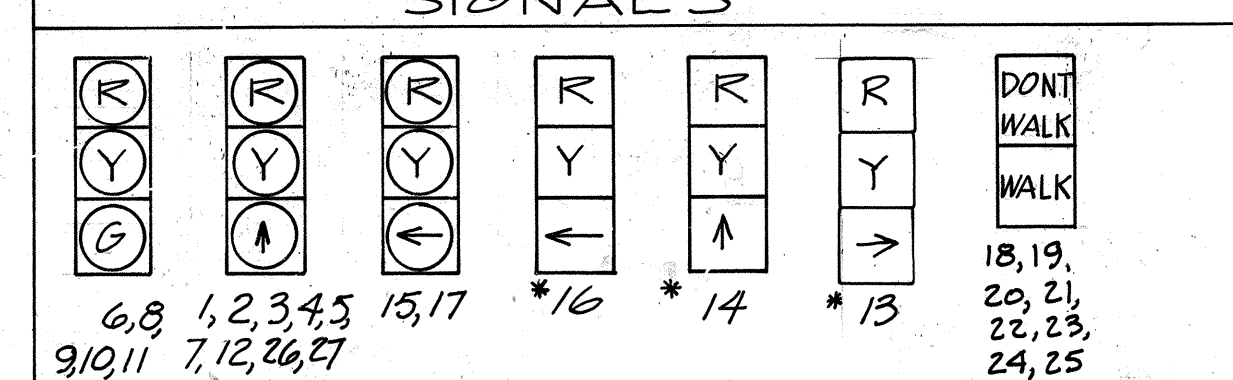
Std. with 20' Mast Arm
200' Rt. H-1 & Sta. 166+57

See Detail A
This Sheet

PAIEA ST.

PHASE IV

SIGNALS



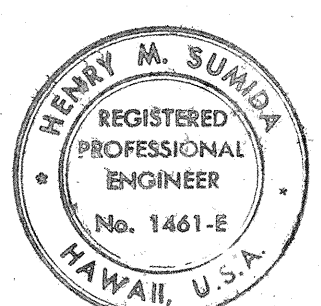
* Programed Visibility Signals

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	144(84):10	1978	45	466

No	DATE	REVISION
2	12-28-79	Added Signals 26 & 27, Revised phasing
3	8-21-79	Revised General Notes No's. 2 & 3 and Legend.
3	5-15-80	Changed design for Left-Turn Loop Detector - See Sht 101.
4	6-24-80	Added Right Turn on Makai Frontage Rd. Changed Phasing. Changed Signal 6 & 9.
5	7-29-80	Revised Intersection Layout

DETAIL A Phase II

- Remove excess signals (Phase I) for Phase II layout
- At end of Phase II, remove temporary posts, poles, and spanwire.
- Phase III will use permanent layout as shown on Phase IV.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

TRAFFIC SIGNALS PAIEA STREET PHASES II, III, & IV

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(84):10

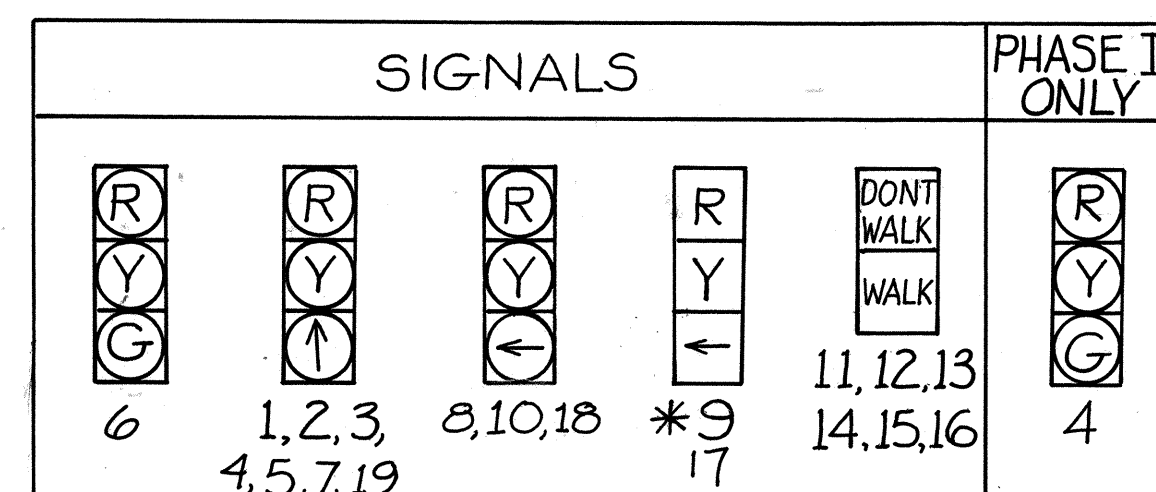
SCALE: 1" = 20' DATE: JULY 19, 1978

SHEET No. 5-1 OF 5 SHEETS

C045

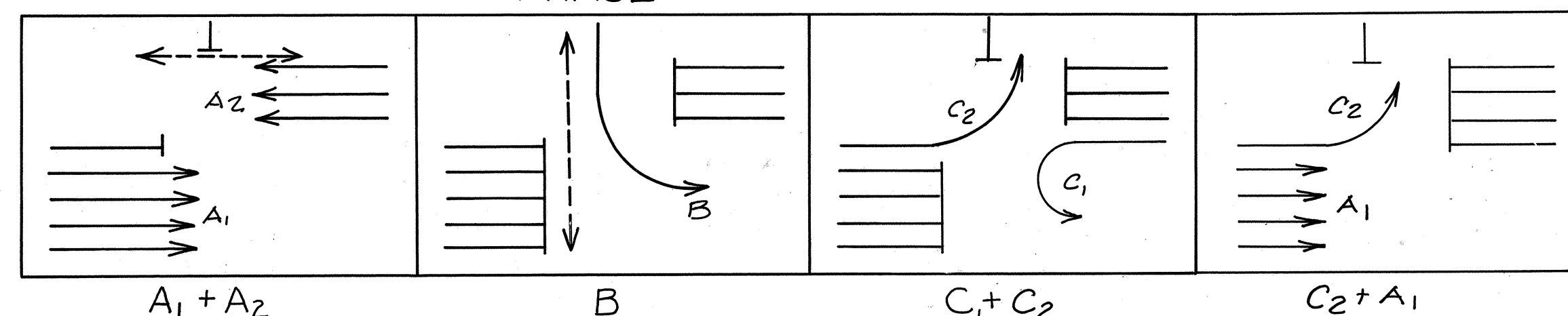
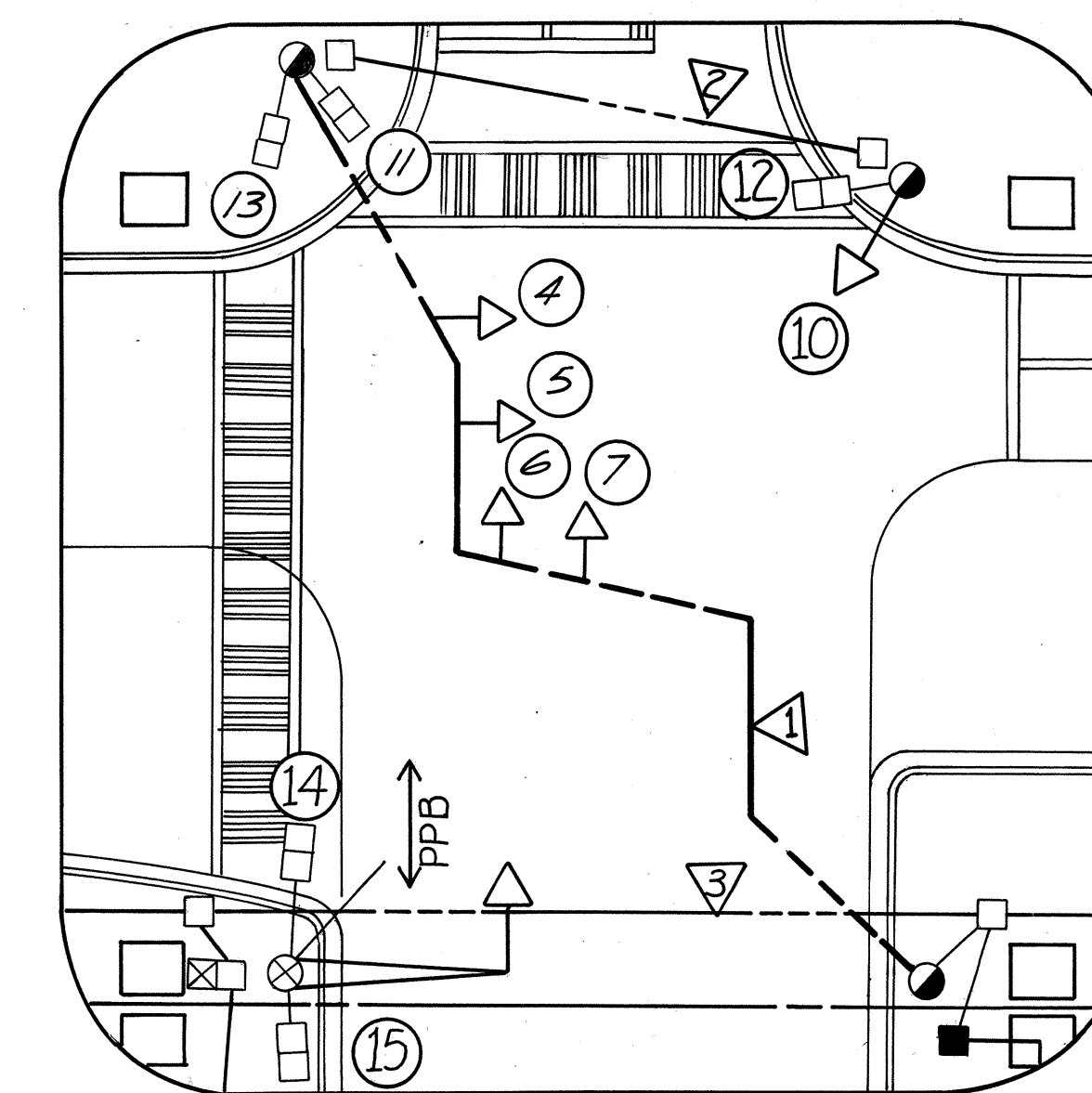
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(84):16	1978	46	466

SIGNAL	PHASE							
	A ₁	A ₂	B	C ₁	C ₂	A ₁ +A ₂	C ₁ +C ₂	C ₂ A ₁
1,2,3	↑	R	R	R	R	↑	R	↑/G
4,5	R	↑	R	R	R	↑	R	R
6,7,19	R	R	G/↑	R	R	R	R	R
9,10	R	R	R	R	←	R	←	←
11,12	DW	W/FDW	DW	DW	DW	W/FDW	DW	DW
13,14,15,16	DW	DW	W/FDW	DW	DW	DW	DW	DW
8,18	R	R	←	←	R	R	←	R
17	R	R	R	←	R	R	←	R

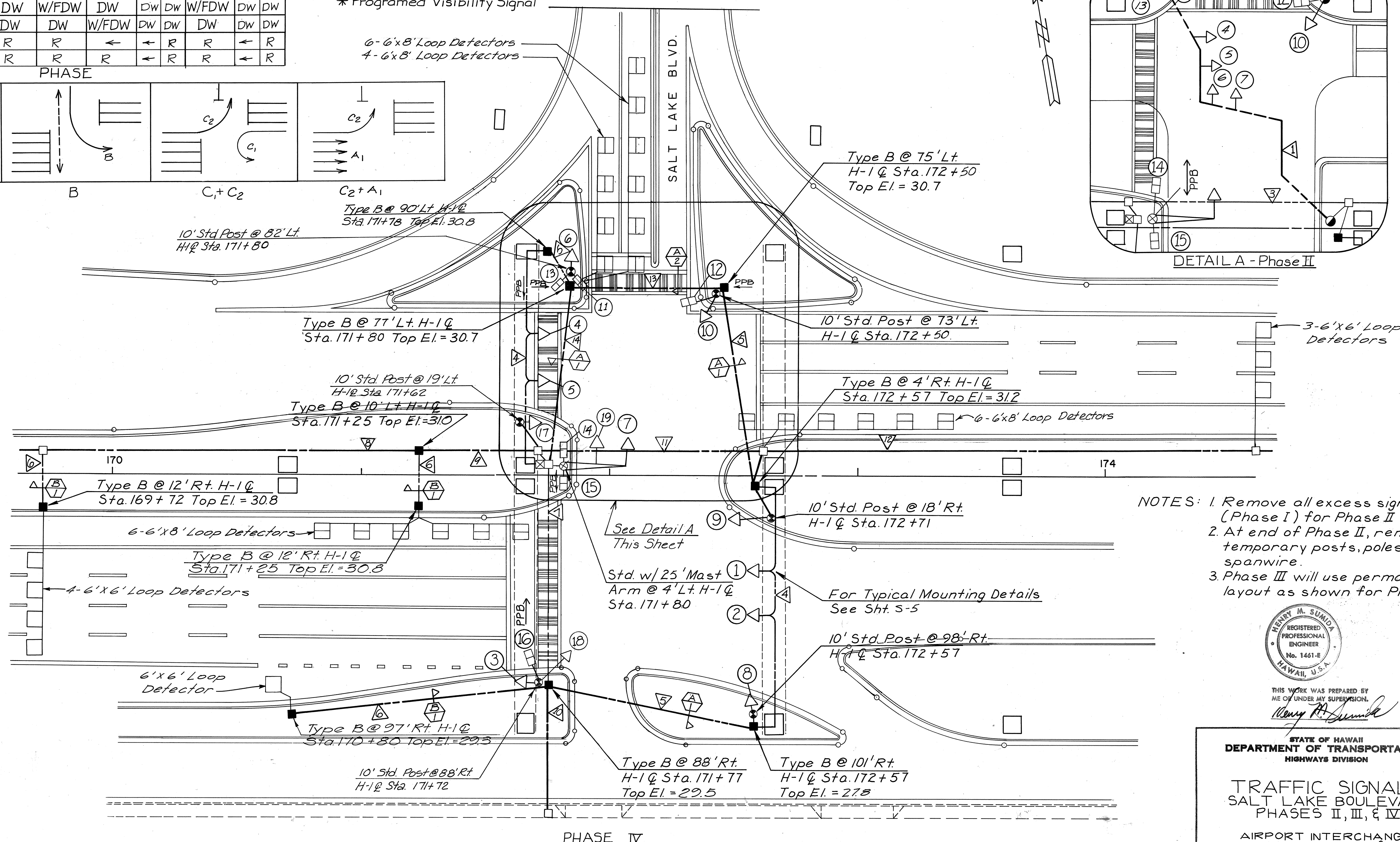


* Programed Visibility Signal

3	7-28-80	Revised Intersection design
2	5-15-80	Change design of Left Turn Loop Detectors - See Sht. 101.
1	4-25-80	Added Signal 17: Added Signal Pole. Added Phase G. Added Left Turn lane & Loops for outbound lanes.
No	DATE	REVISION



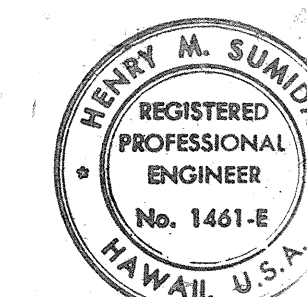
CABLE SCHEDULE		
Legend	Cable	Conduit
▷	Exist. 2-19c #14	Overhead
	Exist. 2-2c #14	Overhead
▷	Exist. 1-19c #14	Exist. 2"
	Exist. 1-19c #14	Exist. 2"
▷	Exist. 1-19c #14	Exist. 2"
	Exist. 1-19c #14	Exist. 2"
	Exist. 3-2c #14	Exist. 2"
▷	1-26c #14	Exist. 2"
▷	1-26c #14	2"
▷	1-2c #14	2"
▷	1-26c #14	Exist. 2"
	Service	Exist. 2"
	2-2c #14	Exist. 2"
▷	Interconnect	Exist. 2"
	1-2c #14	Exist. 2"
	Service	Exist. 2"
▷	2-2c #14	Exist. 2"
	Service	Exist. 2"
	Interconnect	Exist. 2"
▷	Service	Exist. 2"
▷	2-2c #14	Exist. 2"
	Interconnect	Exist. 2"
▷	1-2c #14	Exist. 2"
	Interconnect	Exist. 2"
▷	1-26c #14	2"
	1-2c #14	2"
▷	4-2c #14	2"



NOTES: 1. Remove all excess signals (Phase I) for Phase II layout.

2. At end of Phase II, remove temporary posts, poles, and spanwire.

3. Phase III will use permanent layout as shown for Phase IV.



THIS WORK WAS PREPARED
ME OR UNDER MY SUPERVISION

Kenny M. Asmick

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNALS SALT LAKE BOULEVARD PHASES II, III, & IV

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(84):16

SCALE: 1" = 20' DATE: JULY 19, 1978

SHEET No. 5-2 OF 5 SHEETS

C046

SIGNAL	PHASE															
	A1	A2	A3			B1	B2	C1P	C2	C3	A1+A2	A1+A3			B1+B2	C1P+C2
1,2	↑	R	R			R	R	R	R	R	↑				R	R
3,4	R	↑	R			R	R	R	R	R	↑				R	R
7,8,6	R	R	↑/G			R	R	R	R	R	↑/G				R	R
9,10	R	R	R			G	R	R	R	R	R				G	R
11	R	R	R			R	↑	R	R	R	R				↑	R
12	R	R	R			R	←	R	R	R	R				←	R
13	R	R	R			R	R	R	←	R	R				R	←
5,14	R	R	R			R	R	R	R	G/←	R				R	G/←
23,24	R	R	R			R	R	R	R	↑	R				R	↑
15,16	DW	DW	DW			DW	DW	W/FDW	DW	DW	DW				DW	W/FDW
17,18,19,20	DW	DW	DW			DW	DW	DW	W/FDW	DW	DW				DW	W/FDW
21,22	DW	DW	W/FDW			DW	DW	DW	DW	DW	W/FDW				DW	DW

Type B @ 90' Lt
H-1 & Sta. 190+86
Top El. = 23.5

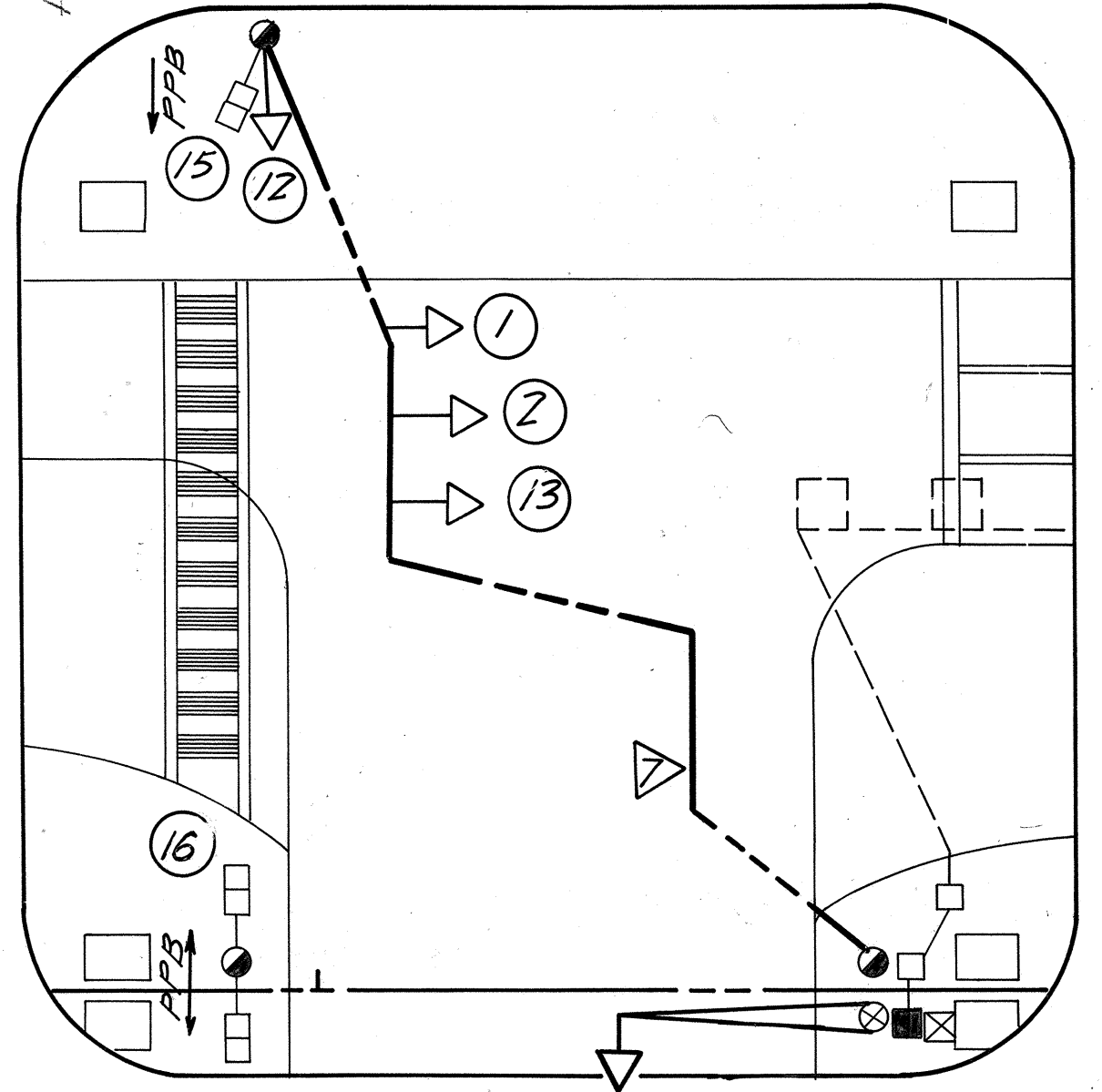
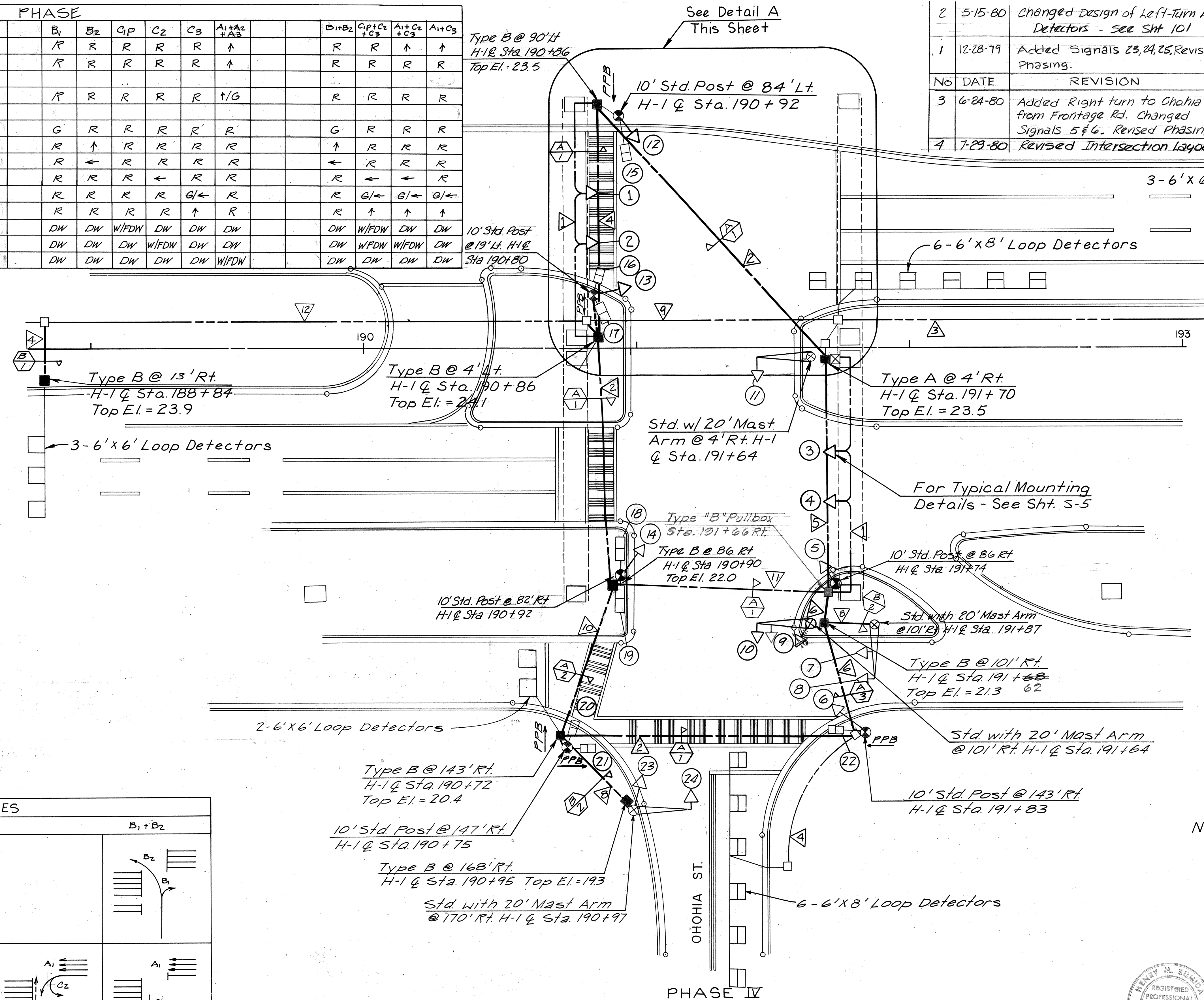
See Detail A
This Sheet

2	5-15-80	Changed Design of Left-Turn Loop Detectors - See Sht 101
1	12-28-79	Added Signals 23,24,25, Revised Phasing.
No	DATE	REVISION
3	6-24-80	Added Right turn to Ohohia St. from Frontage Rd. Changed Signals 5 & 6. Revised Phasing.
4	7-29-80	Revised Intersection layout.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(84):16	1978	47	466

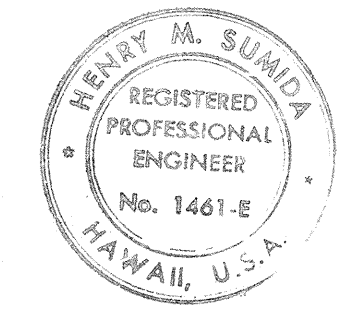
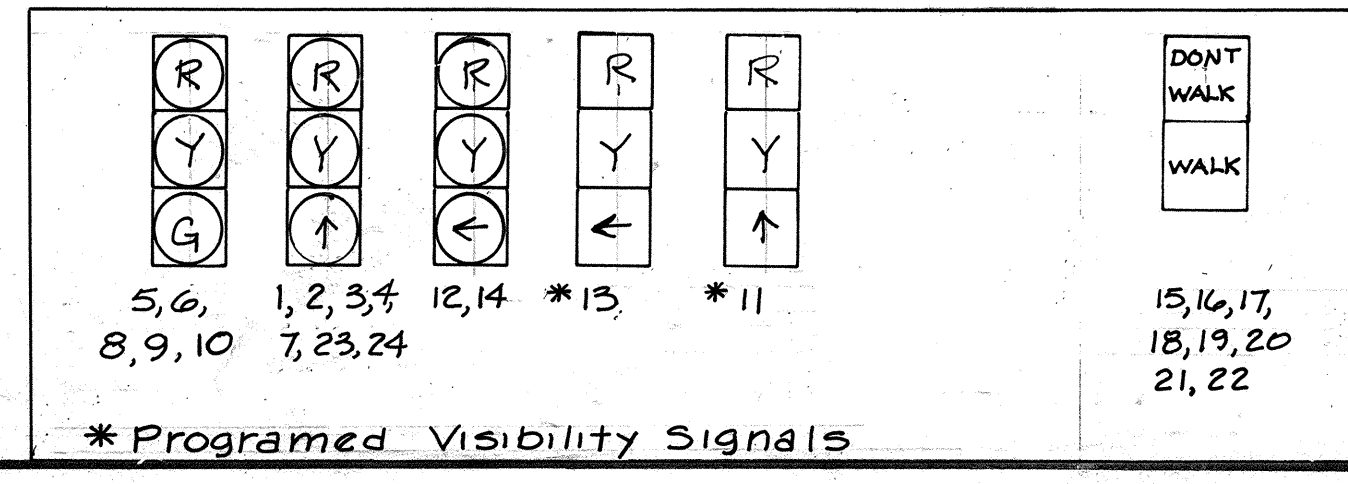
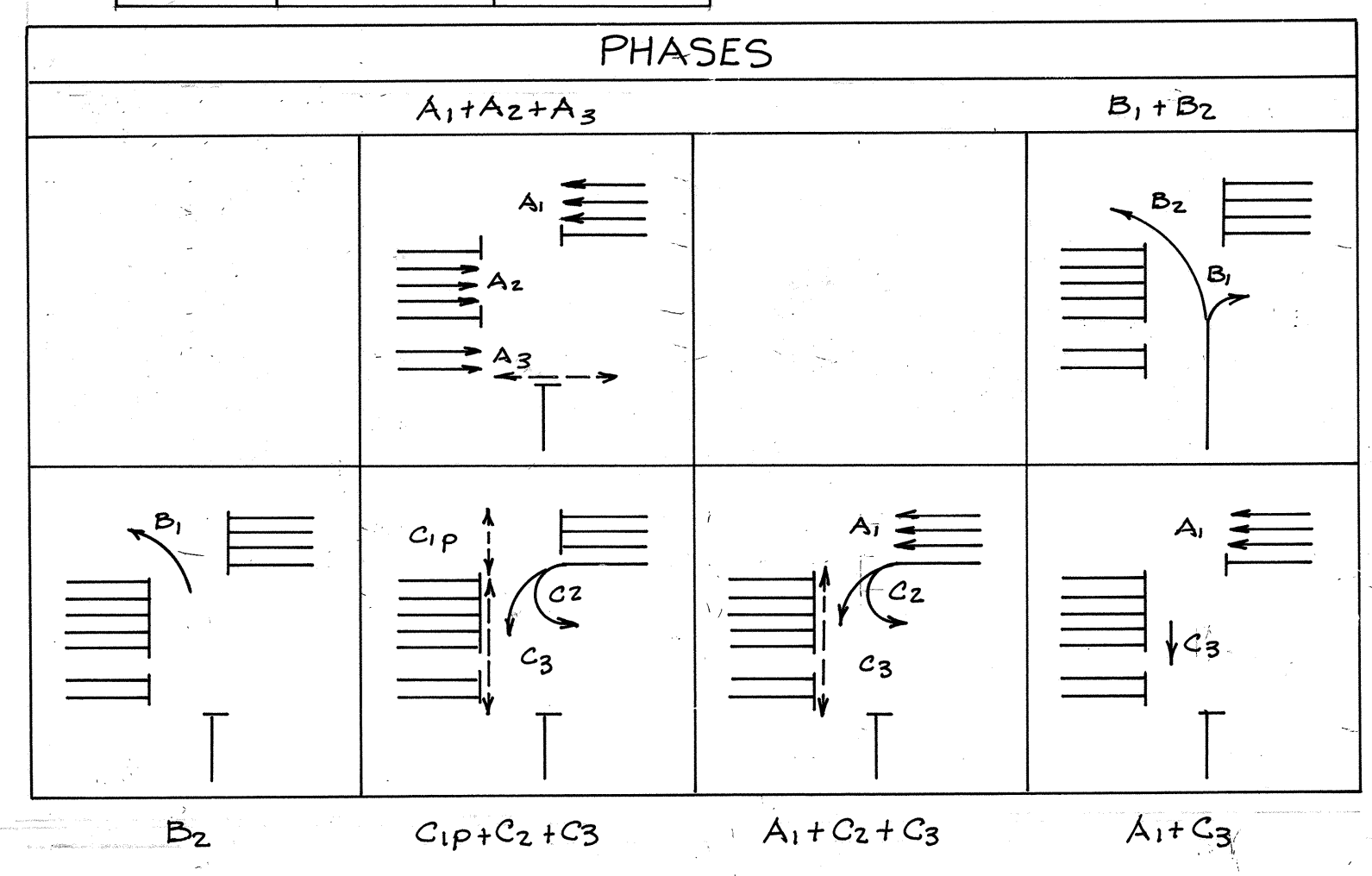
CABLE SCHEDULE

Legend	Cable	Conduit
1	1-26c #14	Exist. 2"
2	1-26c #14	2"
3	1-2c #14	Exist. 2"
4	Interconnect	Exist. 2"
5	Service	Exist. 2"
6	1-2c #14	2"
7	5-2c #14	Exist. 2"
8	Service	Exist. 2"
9	2-2c #14	2"
10	1-26c #14	2"
11	Service	2"
12	Exist. 2-1c #14	Overhead
13	1-26c #14	2"
14	1-26c #14	2"
15	3-2c #14	Exist. 2"
16	Interconnect	Exist. 2"
17	1-26c #14	2"
18	3-2c #14	2"
19	3-2c #14	2"
20	Interconnect	Exist. 2"
21	1-2c #14	2"



DETAIL A
Phase II

- NOTES: 1. Remove excess signals (Phase I) for Phase II layout.
2. At end of Phase II, remove temporary posts, poles, and span wire.
3. Phase III will use permanent layout as shown for Phase IV



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Henry M. Sumida

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNALS
OHOHIA STREET
PHASES II, III, & IV
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(84):16

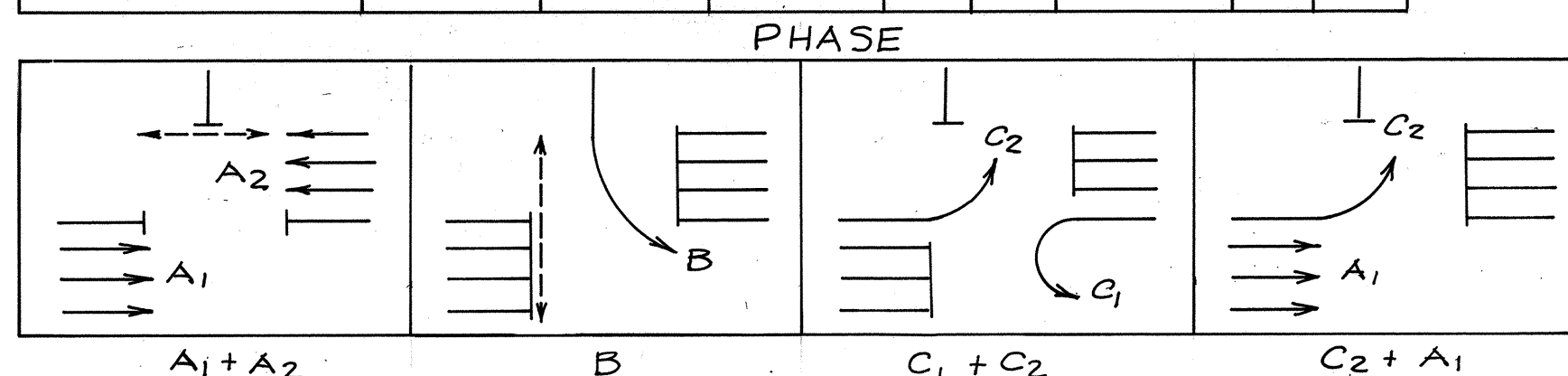
SCALE: 1" = 20' DATE: JULY 19, 1978

SHEET No. 5-3 OF 5 SHEETS

DATE: _____
SUBMIT PLANNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____
NOTE BOOK: _____
No. _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(84)10	1978	48	466

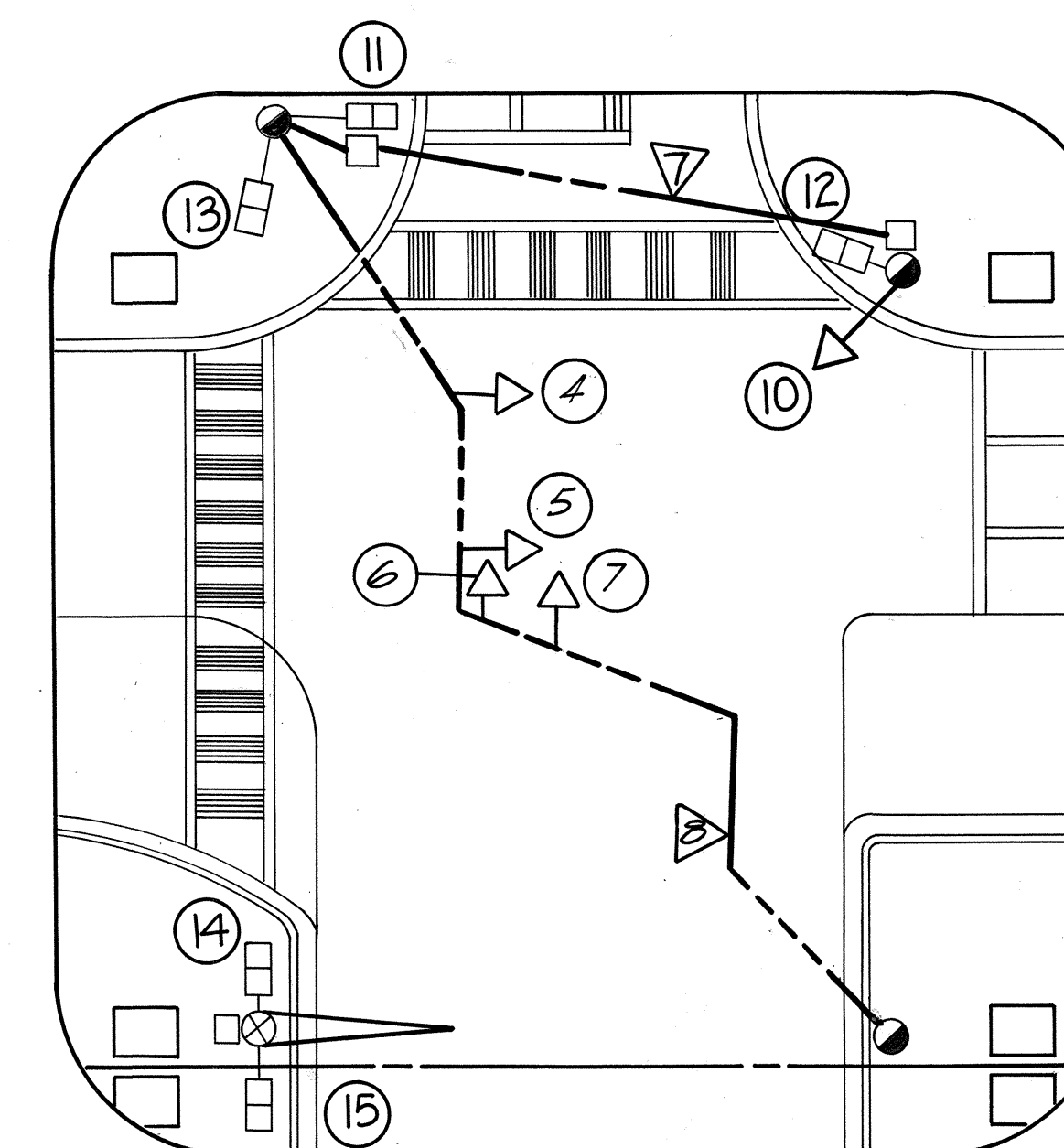
SIGNAL	PHASE							
	A ₁	A ₂	B	C ₁	C ₂	A ₁ +A ₂	C ₁ +C ₂	A ₁ +C ₂
1, 2, 3	↑/G	R	R	R	R	↑/G	R	↑/G
4, 5	R	↑	R	R	R	↑	R	R
6, 7	R	R	G/↑	R	R	R	R	R
9, 10	R	R	R	R	←	R	←	←
11, 12	DW	W/FDW	DW	DW	DW	W/FDW	DW	DW
13, 14, 15, 16	DW	DW	W/FDW	DW	DW	DW	DW	DW
8	R	R	←	←	R	R	←	R
17	R	R	R	←	R	R	←	R



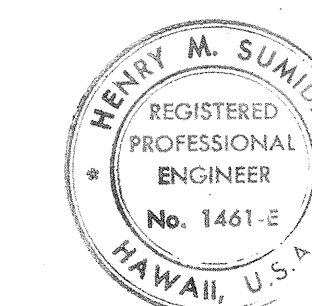
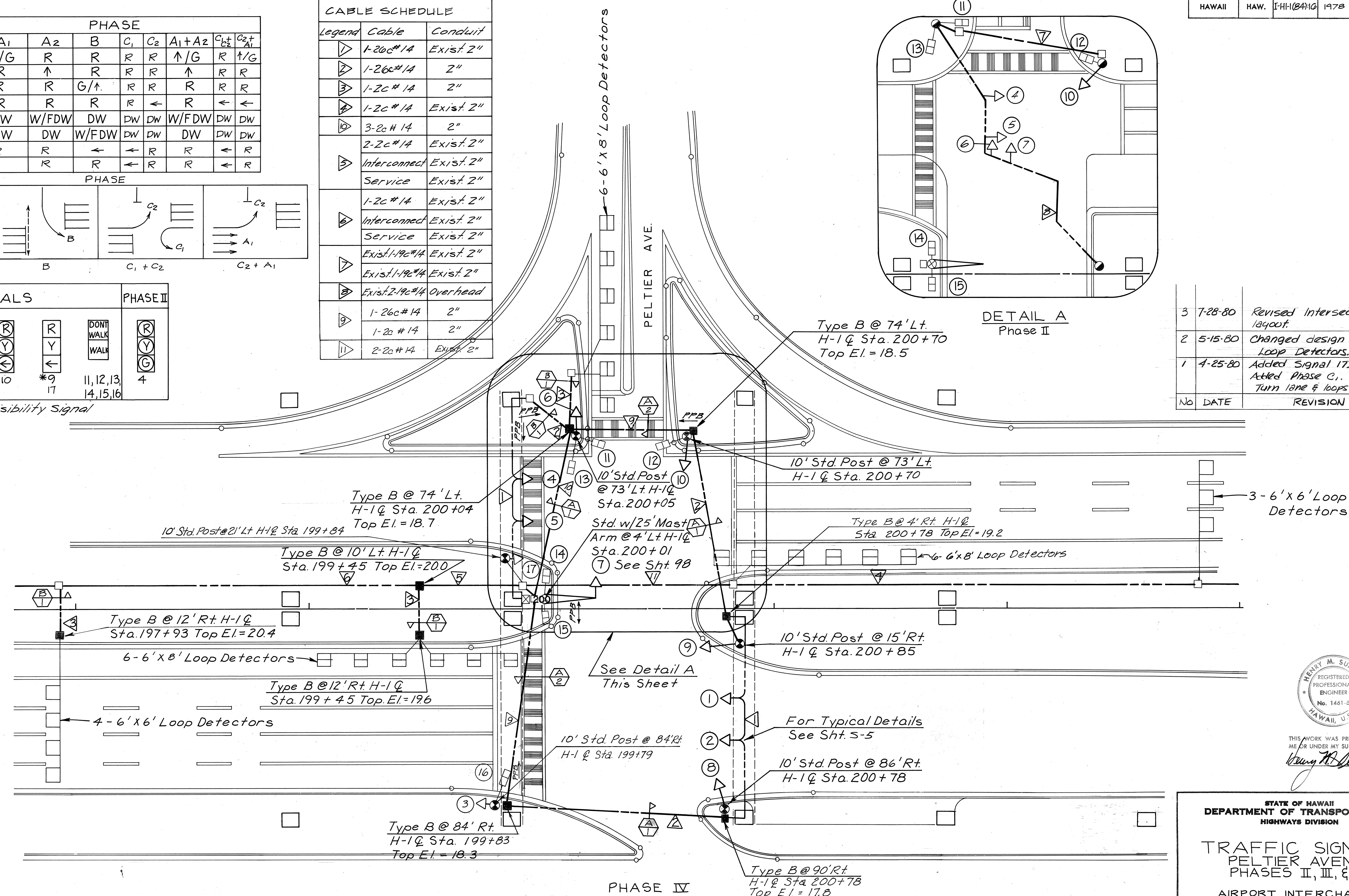
SIGNALS					PHASE II
3, 6	1, 2, 4, 5, 7	8, 10	*9, 17	11, 12, 13, 14, 15, 16	4

Programed Visibility Signal

CABLE SCHEDULE		
Legend	Cable	Conduit
1	1-26c #14	Exist. 2"
2	1-26c #14	2"
3	1-2c #14	2"
4	1-2c #14	Exist. 2"
5	3-2c #14	2"
6	2-2c #14	Exist. 2"
7	Interconnect	Exist. 2"
8	Service	Exist. 2"
9	1-2c #14	Exist. 2"
10	Interconnect	Exist. 2"
11	Service	Exist. 2"
12	Exist. 1-19c #14	Exist. 2"
13	Exist. 1-19c #14	Exist. 2"
14	Exist. 2-19c #14	Overhead
15	1-26c #14	2"
16	1-2c #14	2"
17	2-2c #14	Exist. 2"



NO	DATE	REVISION
3	7-28-80	Revised Intersection layout.
2	5-15-80	Changed design of Left-Turn Loop Detectors. Sht. 101
1	4-25-80	Added Signal 17. Added Post. Added Phase C ₁ . Added Left-Turn lane & loops outcount lanes.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Henry M. Sumida

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNALS
PELTIER AVENUE
PHASES II, III, & IV

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-H-1(84)10

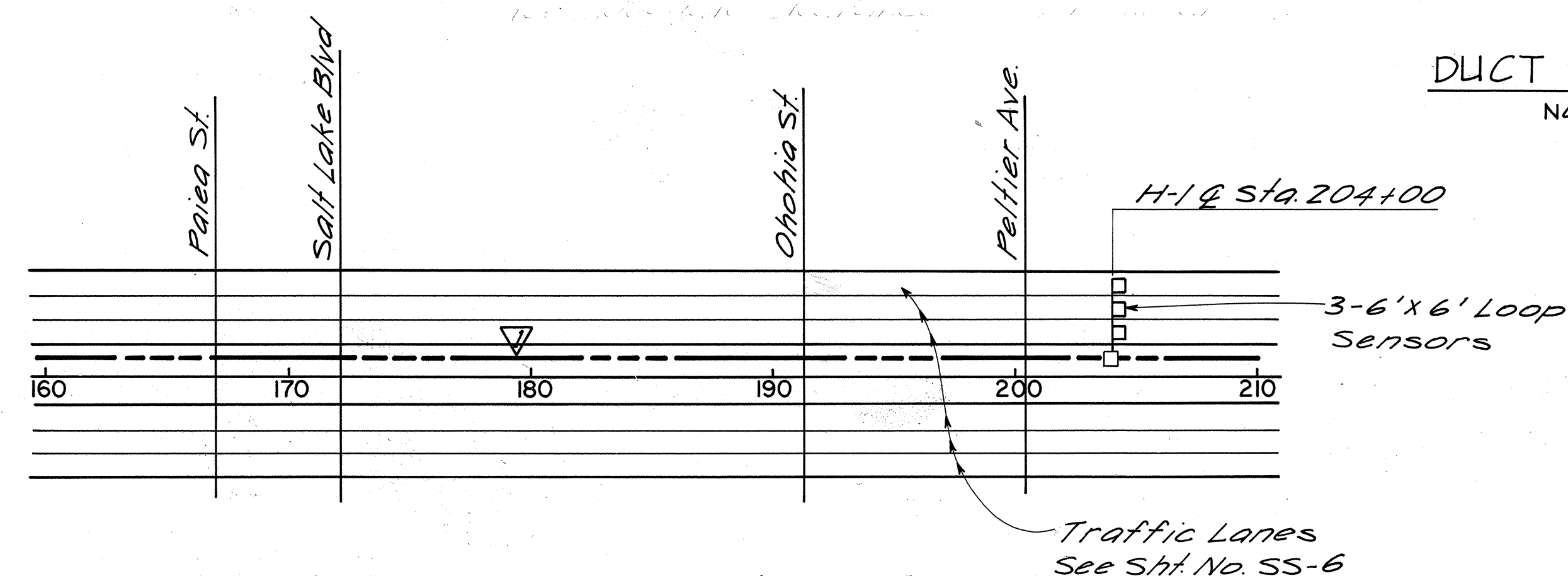
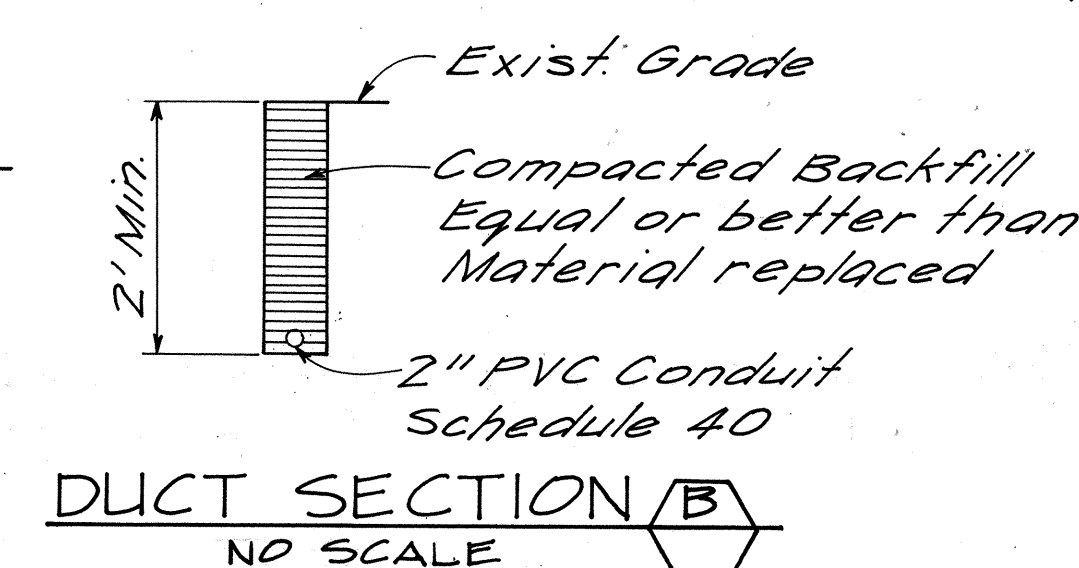
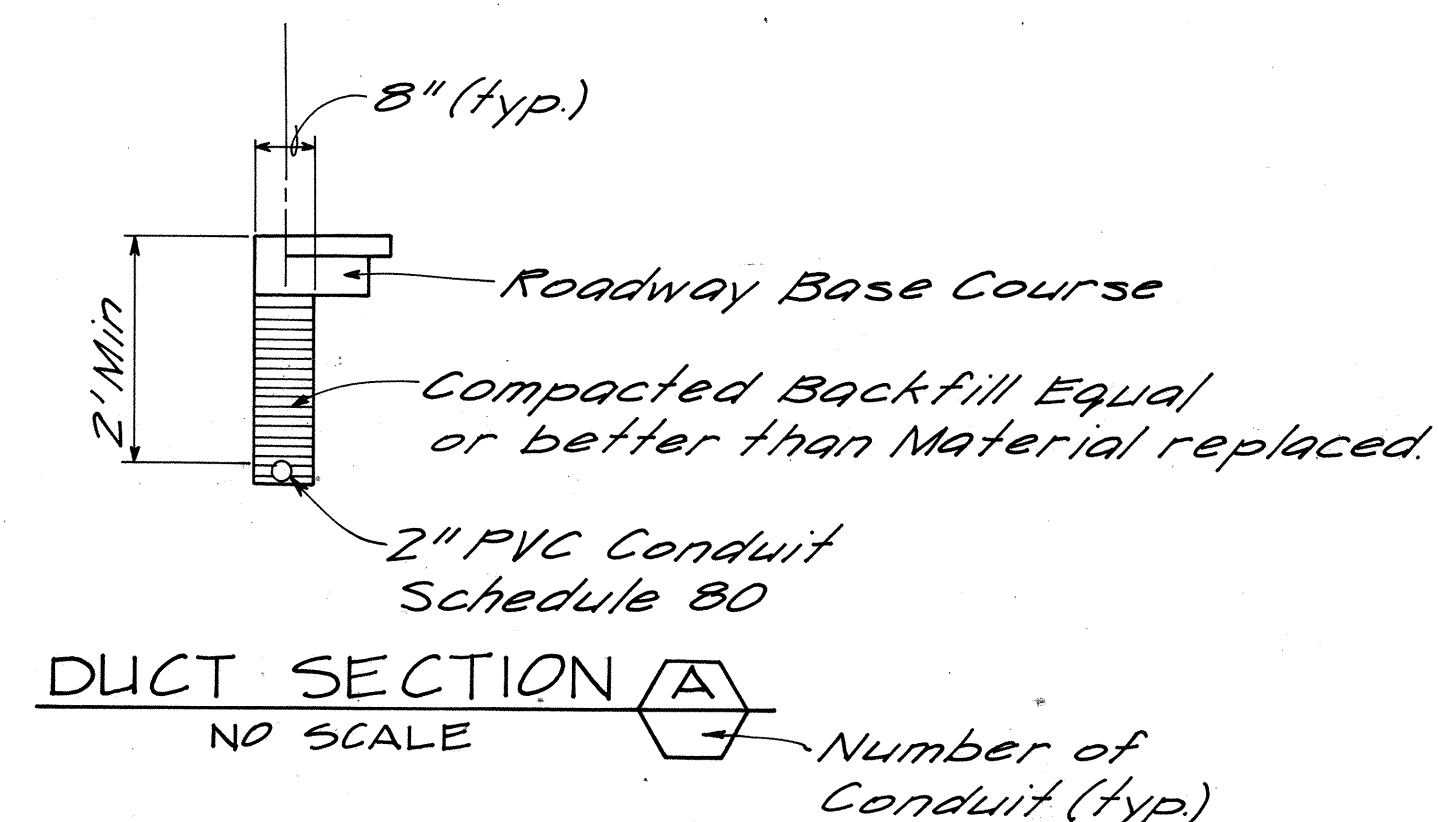
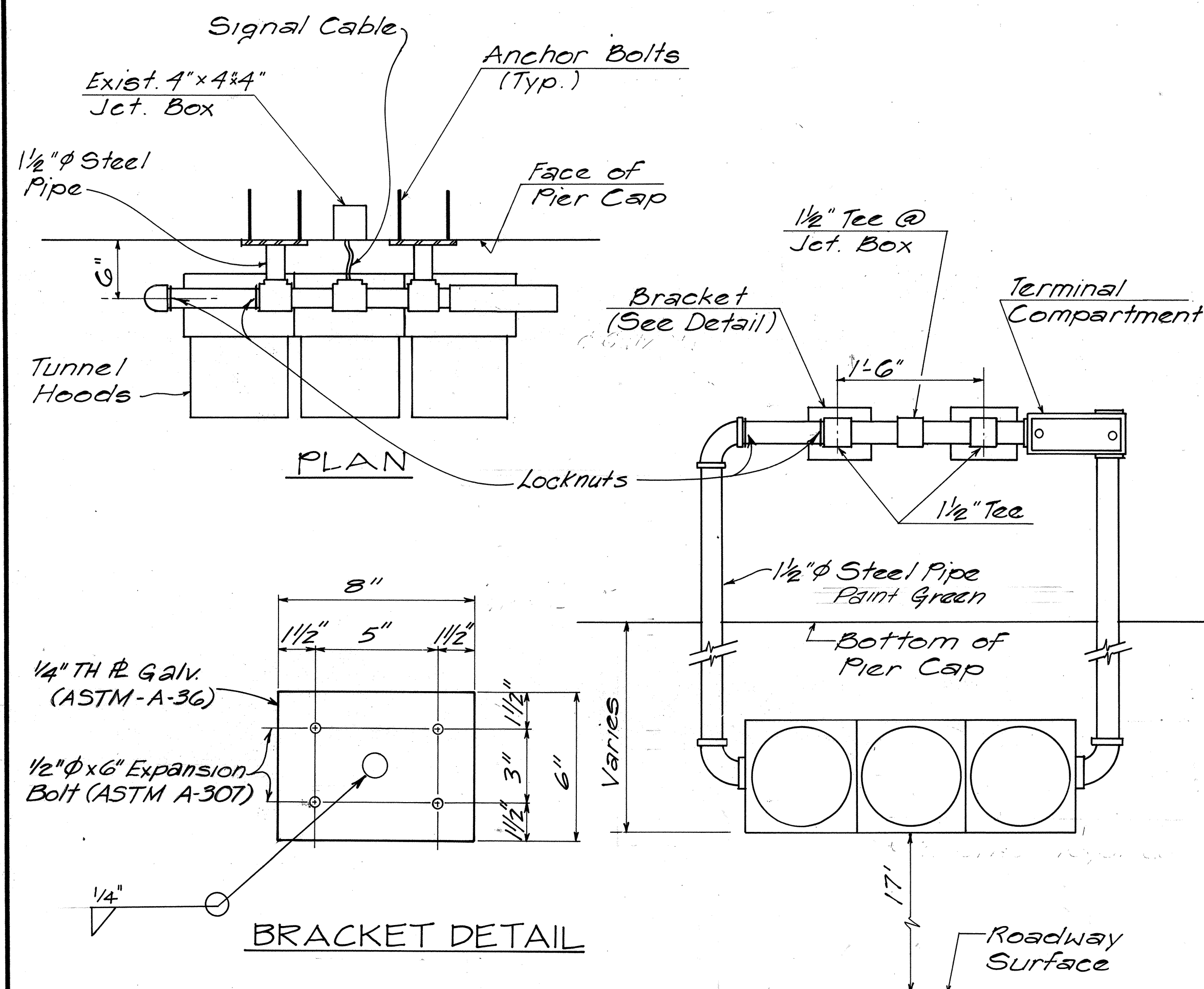
SCALE: 1" = 20' DATE: JULY 19, 1978

SHEET No. 3-4 OF 5 SHEETS

C048

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(84)16	1978	49	466



CABLE SCHEDULE		
Legend	Conduit	Cable
▽	Exist. 2"	24c #18 20
	Exist. 2"	Future Use

	9-2-80	Changed Command & Sensor Cable
	8-7-79	Changed Signal Mounting Detail
	4-12-79	Added Detail for Horizontal Signal.
No.	DATE	REVISION



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Harry M. Smith

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES

TRAFFIC SIGNAL DETAILS

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(84)-16

SCALE AS SHOWN DATE: JULY 19, 1978

SHEET No. 3-5 OF 5 SHEETS

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