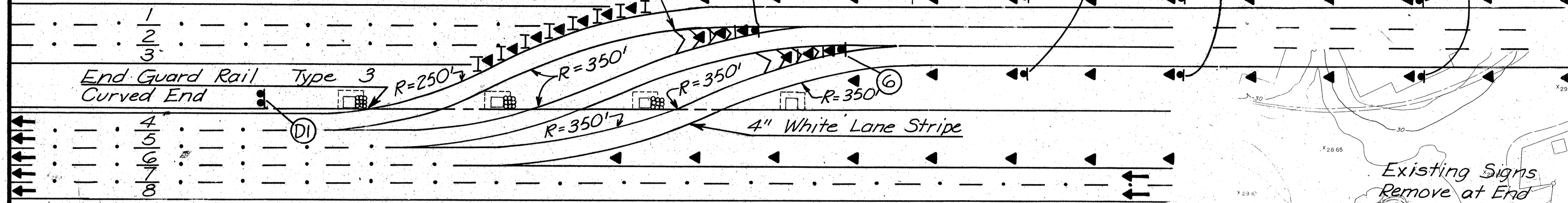


**TYPICAL CROSS OVER DETOUR**

To be Used at Locations and Time Periods required by construction phasing of adjoining projects as directed by Engineer.

4" White Stripe @ 10' Intervals (Typ)



**LEGEND**

Class II Barricades with Tubular Traffic Cones

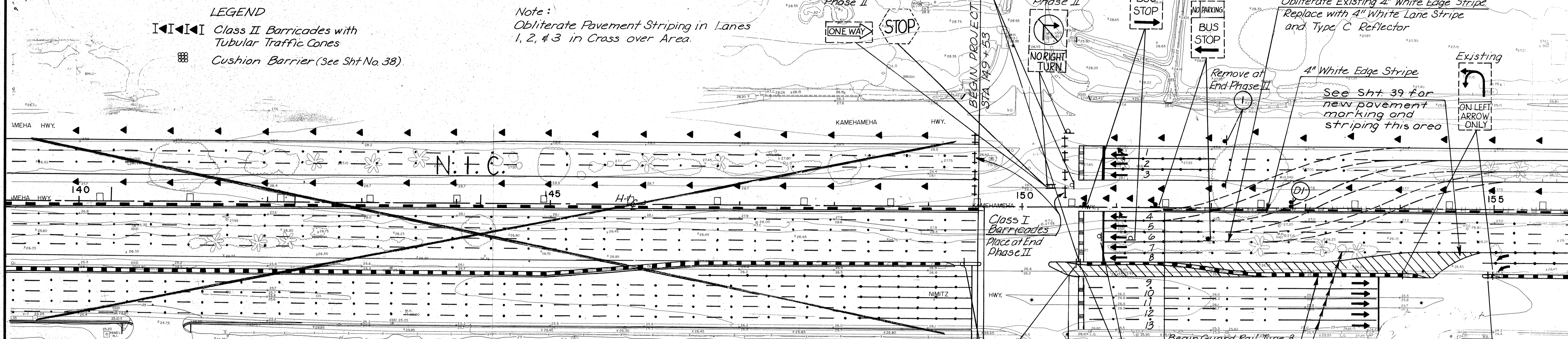
Cushion Barrier (See Sht No. 38)

**Note:**

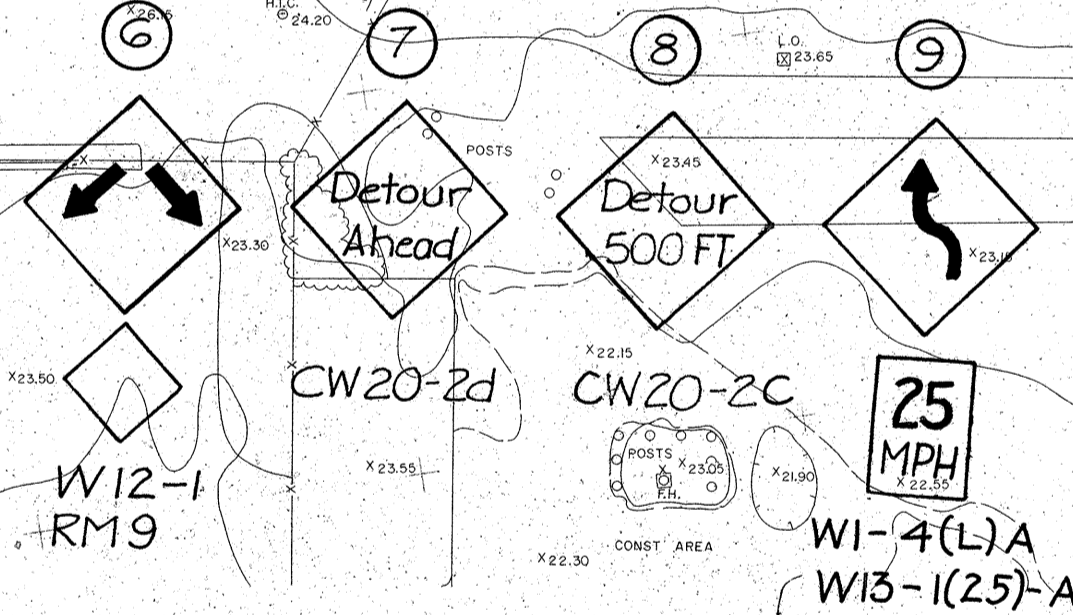
Obliterate Pavement Striping in Lanes 1, 2, & 3 in Cross over Area.

Portable Concrete Guard Rail may be utilized for temporary construction at various locations throughout the project. The guard rail sections shall be relocated from storage areas or from other locations as directed by the Engineer.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(121)-16	1975	33	207



**NEW SIGNS**



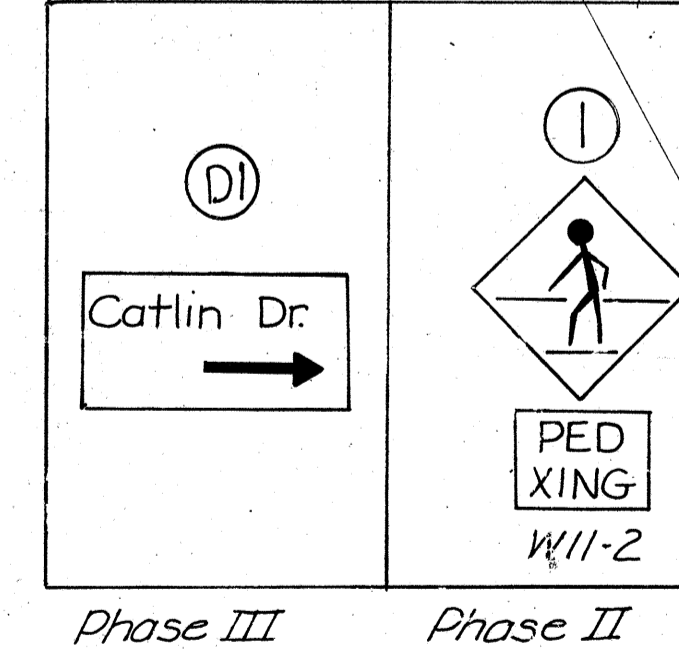
**NOTES**

1. Remove and Salvage all Signs along Kamehameha Highway.
2. See Signal Plan Sheet No. 39 for Traffic Arrow Locations.
3. All Signs, Striping, and Guard Rail indicated as existing will be placed during Project I-HI-1(118)-16 and shall remain during Project I-HI-1(121)-16 unless otherwise noted. Those signs indicated as existing which are to be removed but not reset shall be stored as directed by the Engineer.

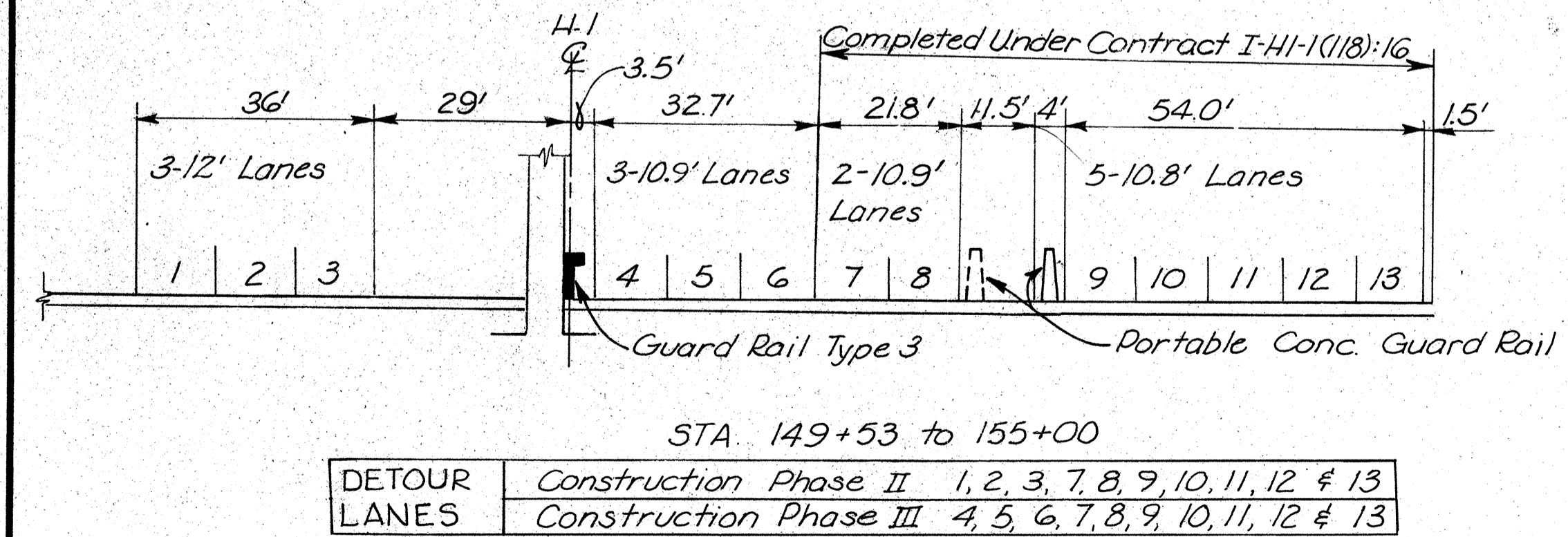
**LEGEND**

- 50' Typ.
- New or Reset Traffic Cones Tubular
- Existing Portable Concrete Guard Rail
- New Portable Concrete Guard Rail - CCO#28
- New Guard Rail Type 3 Single
- New or Relocated Traffic Sign
- 4" White Lane Stripe, Type C Reflector
- 4" White Channelizing Stripe Type C Reflector
- Class I Barricade

**NEW SIGNS**

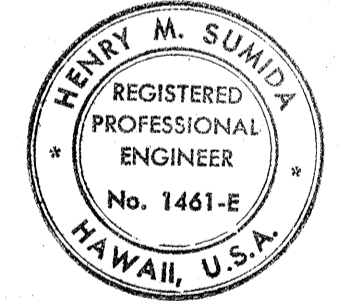


**NOTE:** Existing Tubular Traffic Cones placed during Contract I-HI-1(118)-16 at 50' intervals 30' right of @ H-1 are not shown. At End of Phase II all surplus Traffic Cones shall be removed and stored as directed by the Engineer.



DETOUR LANES	Construction Phase II	Construction Phase III
	1, 2, 3, 7, 8, 9, 10, 11, 12 & 13	4, 5, 6, 7, 8, 9, 10, 11, 12 & 13

**NOTE:** See Sht. No. C033A for Rodgers Blvd. Widening Details.



NO.	DATE	REVISION
1	10-28-75	Deleted Rodgers Blvd. widening details and added note.

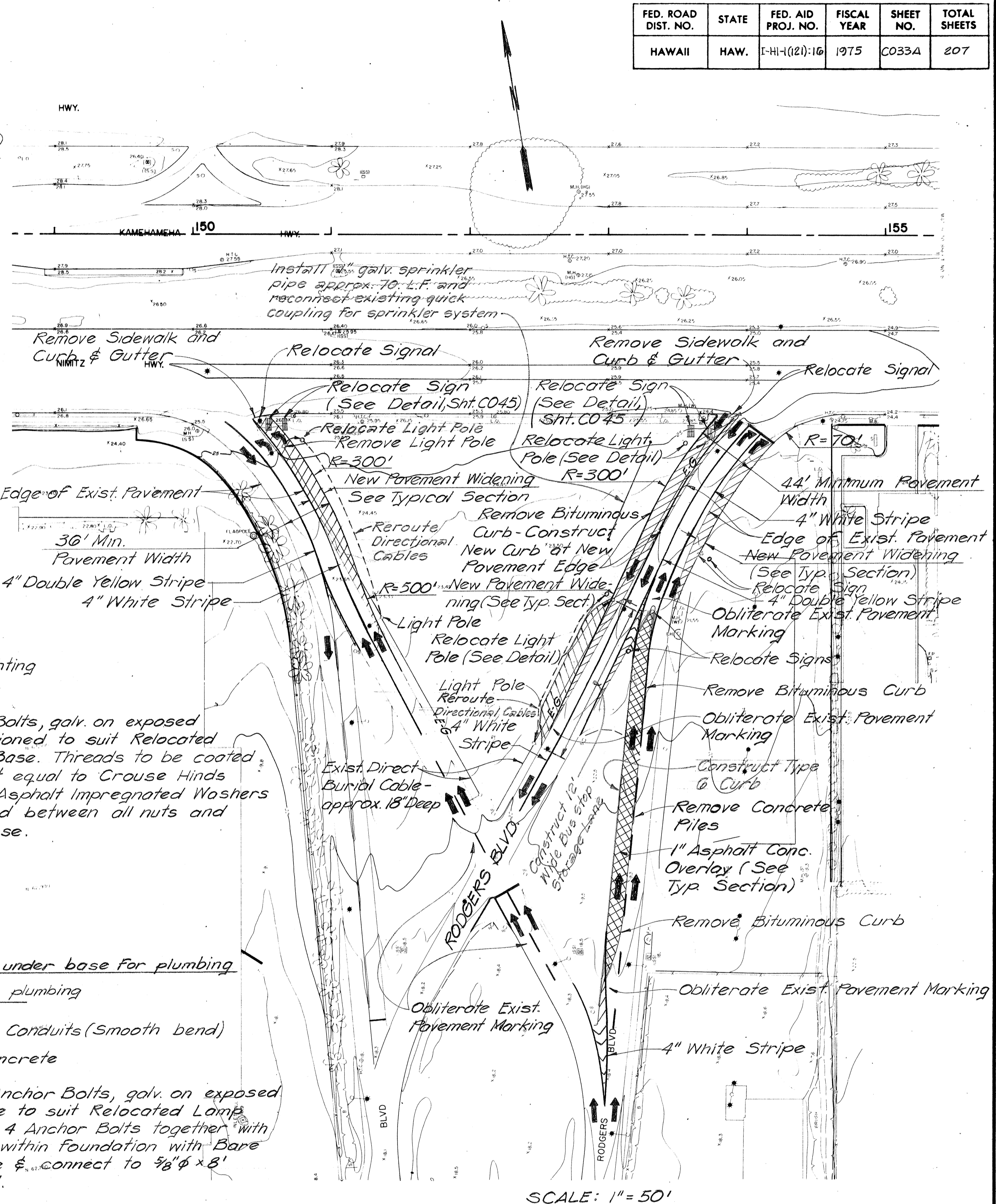
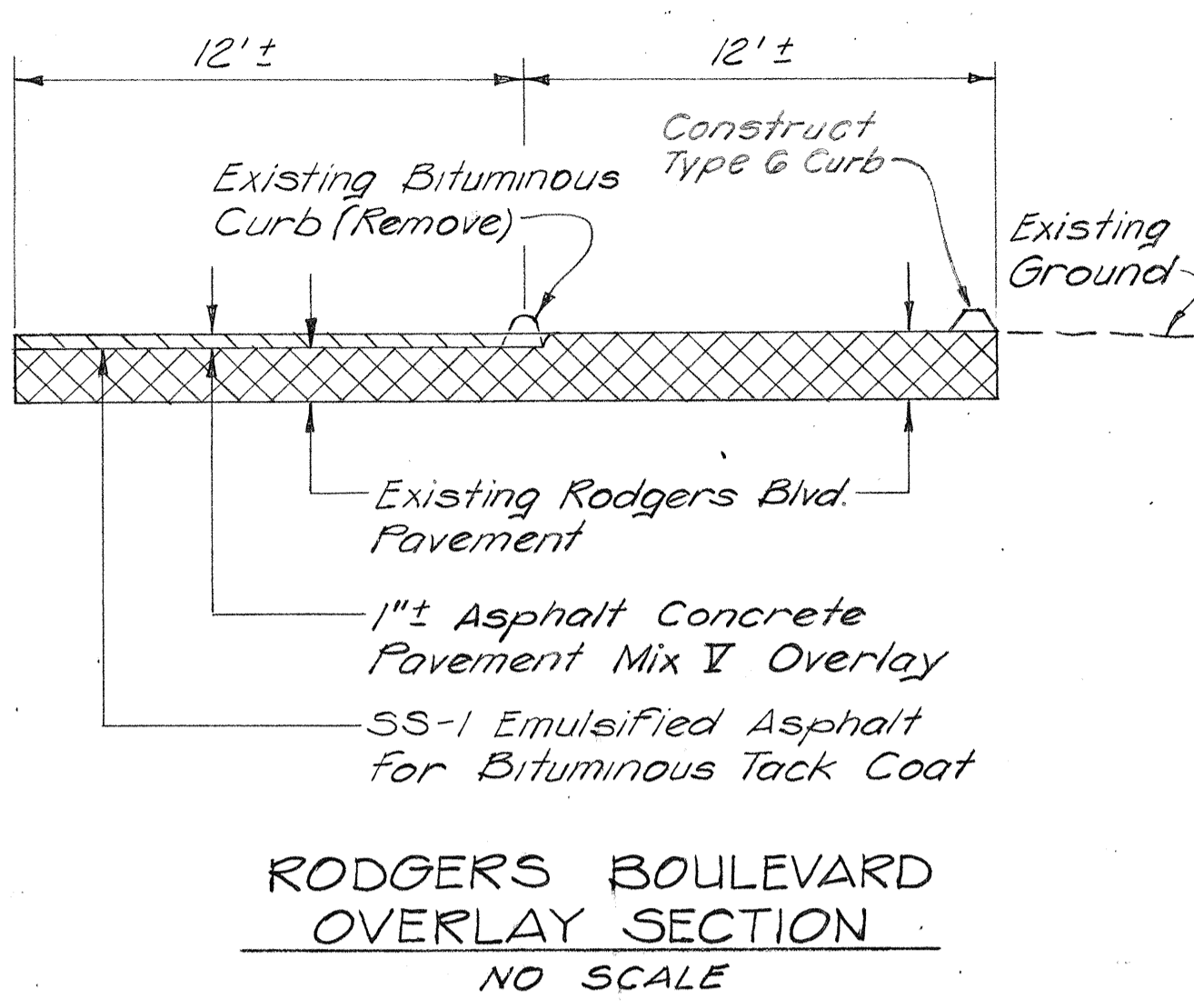
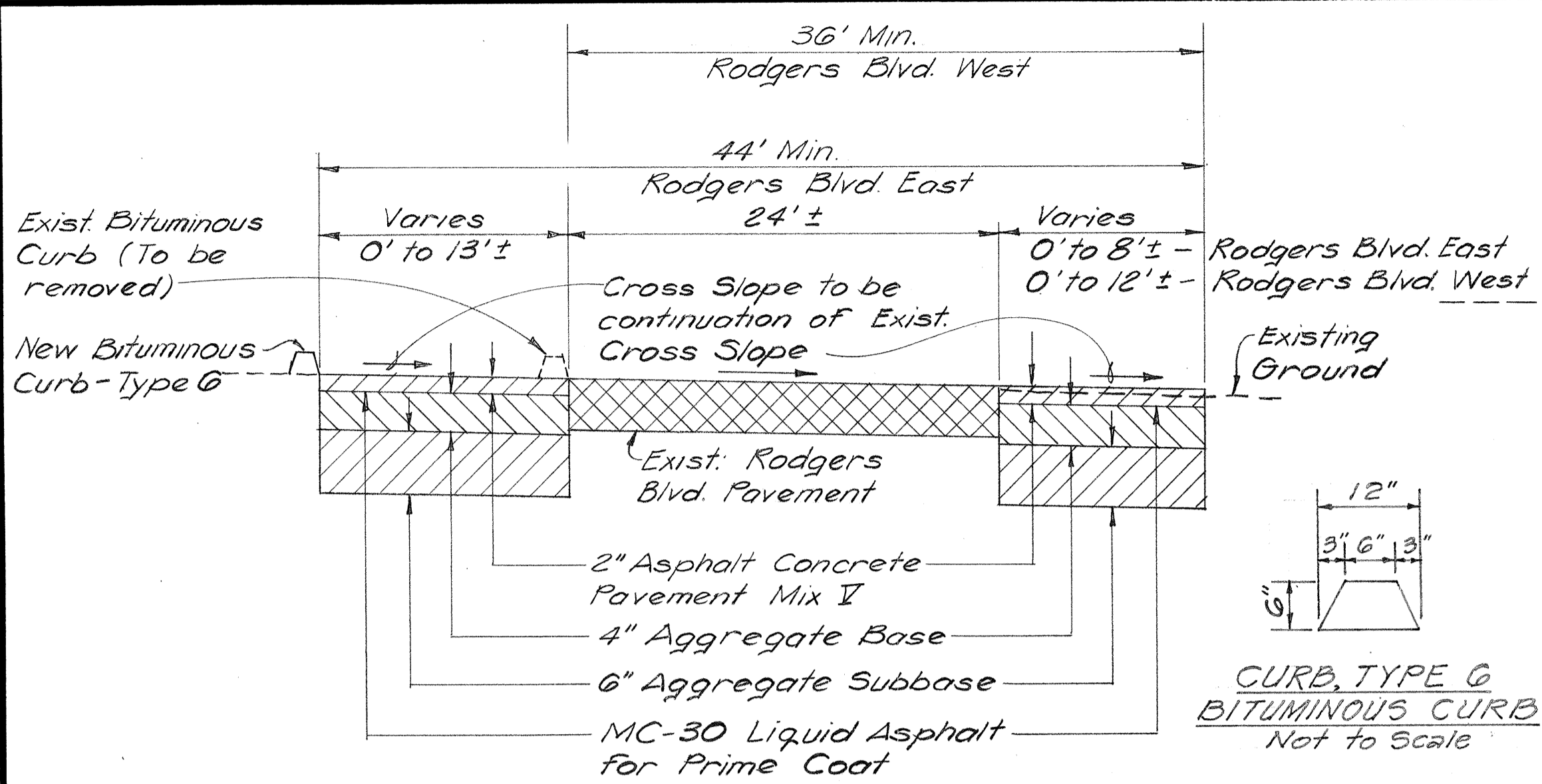
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CONSTRUCTION DETOUR**

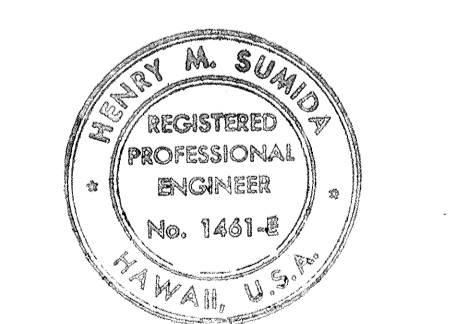
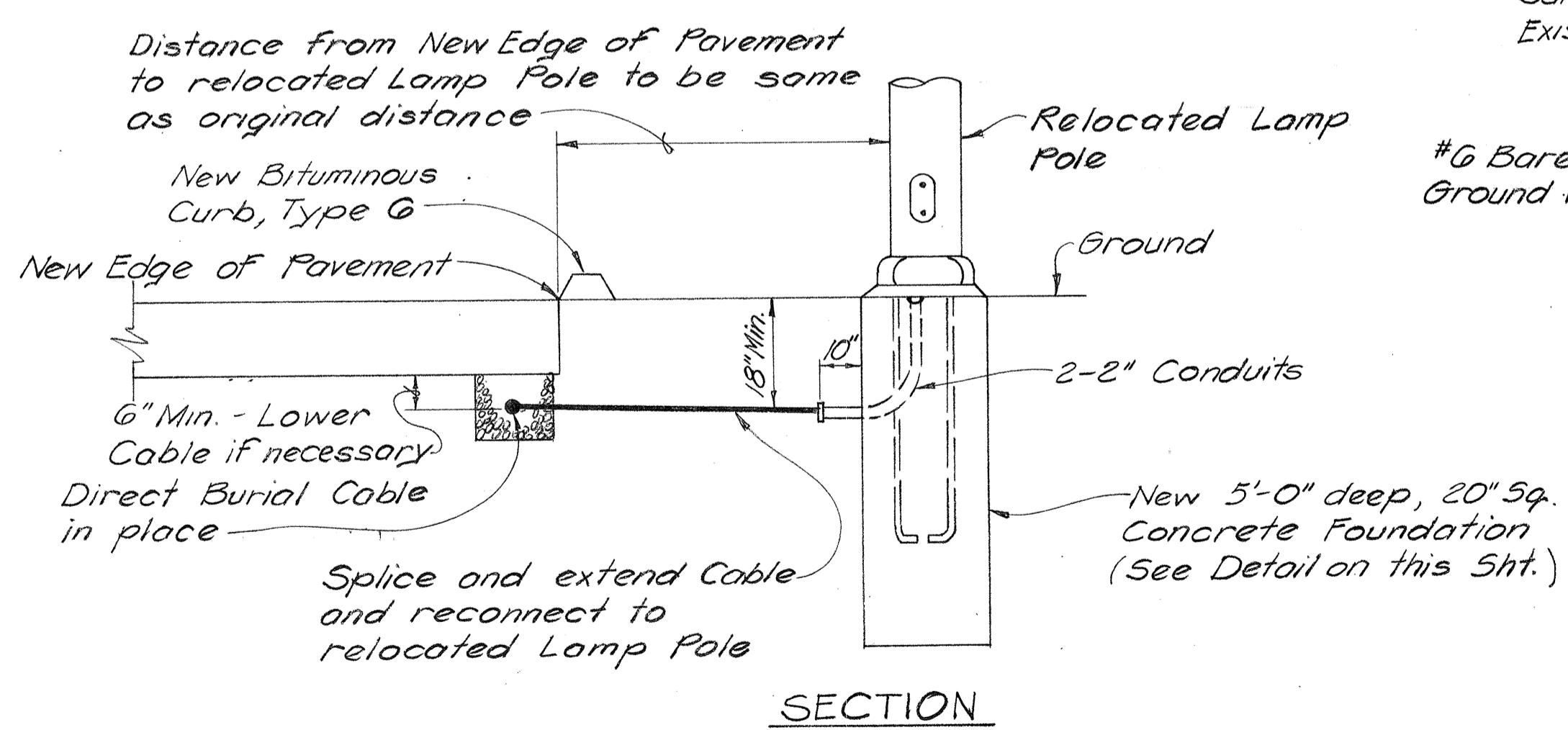
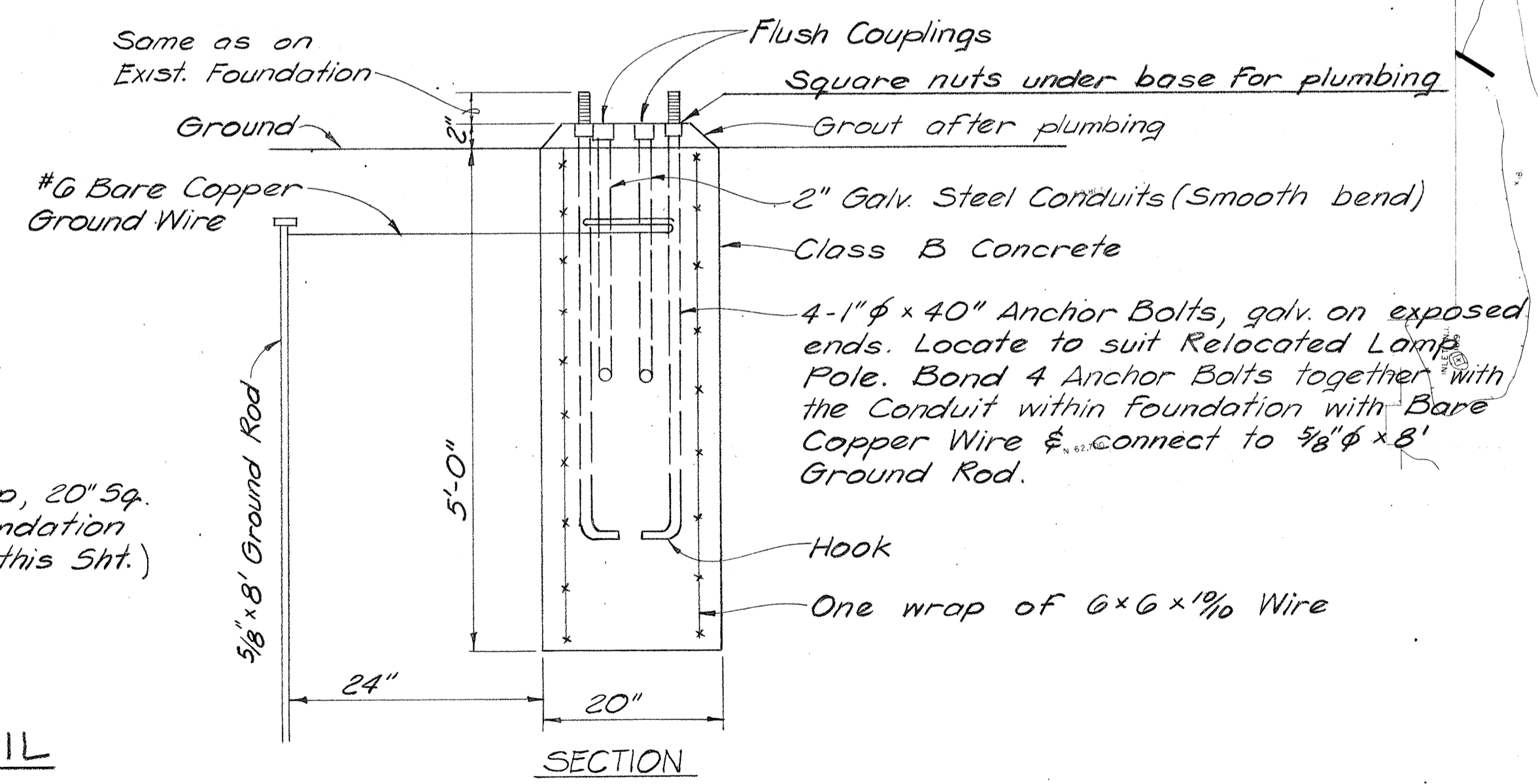
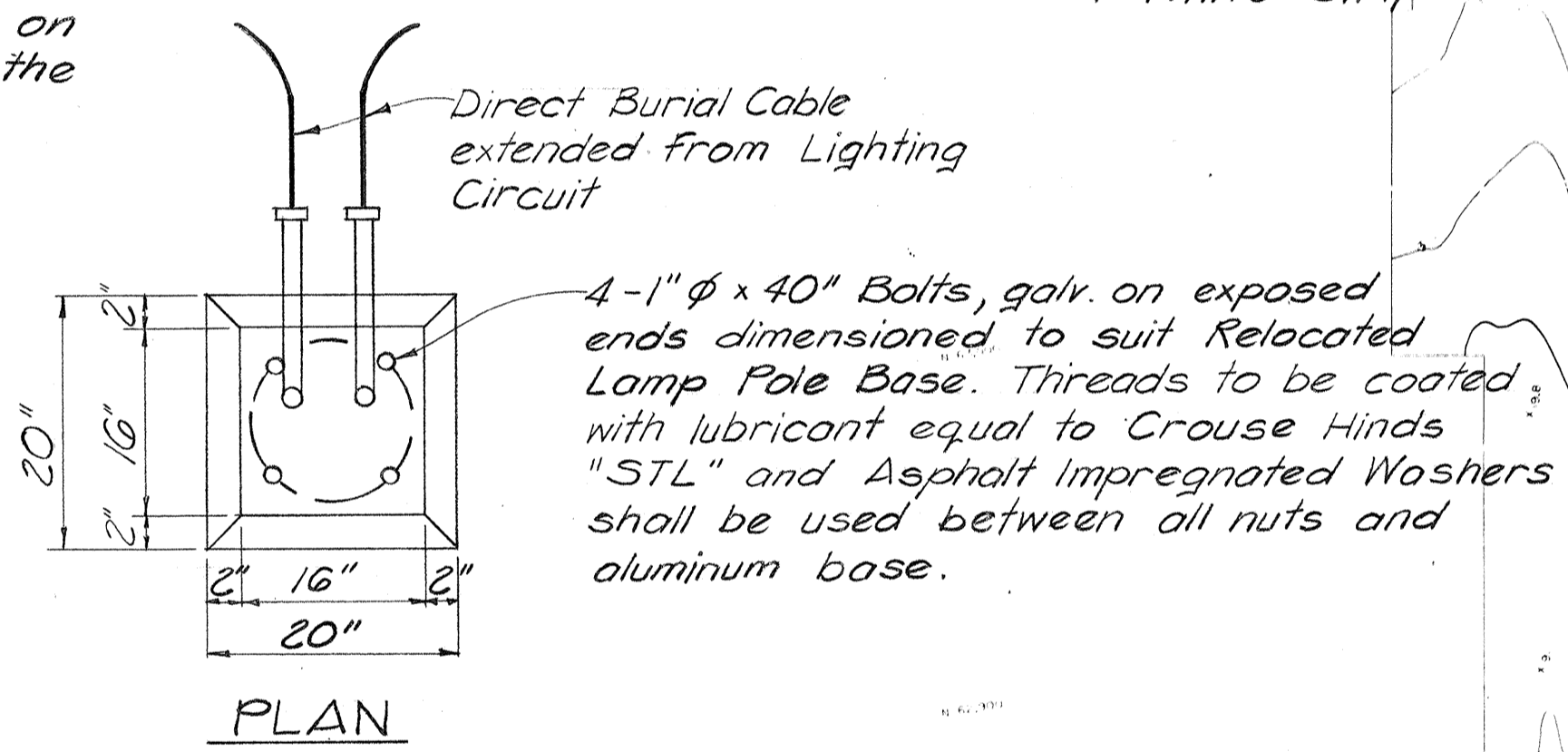
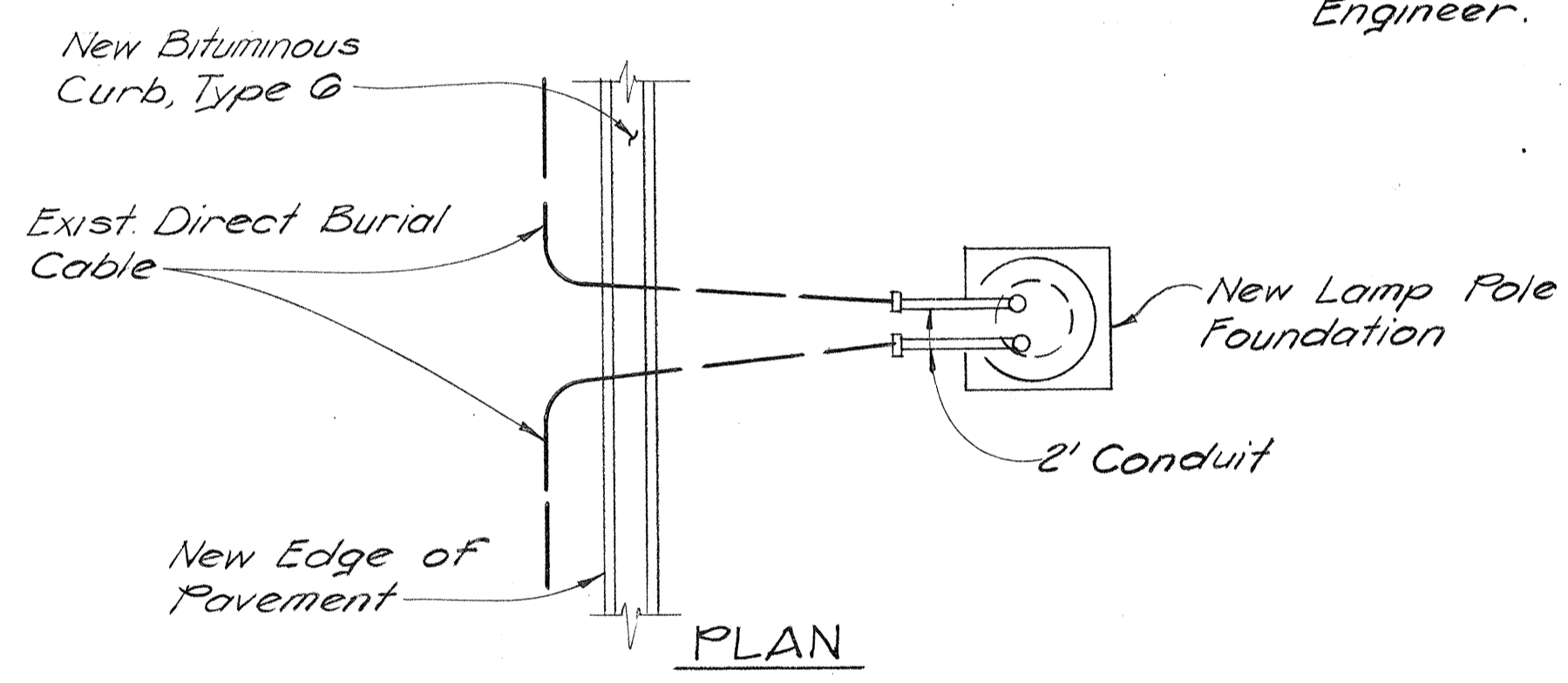
AIRPORT INTERCHANGE  
F.A.I. PROJ. NO. I-HI-1(121)-16  
SCALE: 1" = 50' DATE: MAY 1, 1975  
SHEET No. 1 OF 5 SHEETS

DATE: \_\_\_\_\_  
SURVEY PLOTTED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
QUANTITIES BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
ORIGINAL PLAN: \_\_\_\_\_  
NOTE BOOK: \_\_\_\_\_

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(121)-16	1975	C033A	207



- NOTES:**
1. Relocation of Light Poles and Light Signs included in item 022.005.
  2. Signs to be relocated shall be placed at the new edges of roadway using the same dimensions and directions as in the existing locations.
  3. The Concrete Bases from the relocated Light Post and Signs shall be removed and disposed of by the Contractor.
  4. Phasing of work to be done in the Rodgers Blvd. area as detailed on this sheet shall be directed by the Engineer.



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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**RODGERS BLVD.  
WIDENING PLAN AND DETAILS**

AIRPORT INTERCHANGE  
F.A.I. PROJ. NO. I-H-1-(121)-16

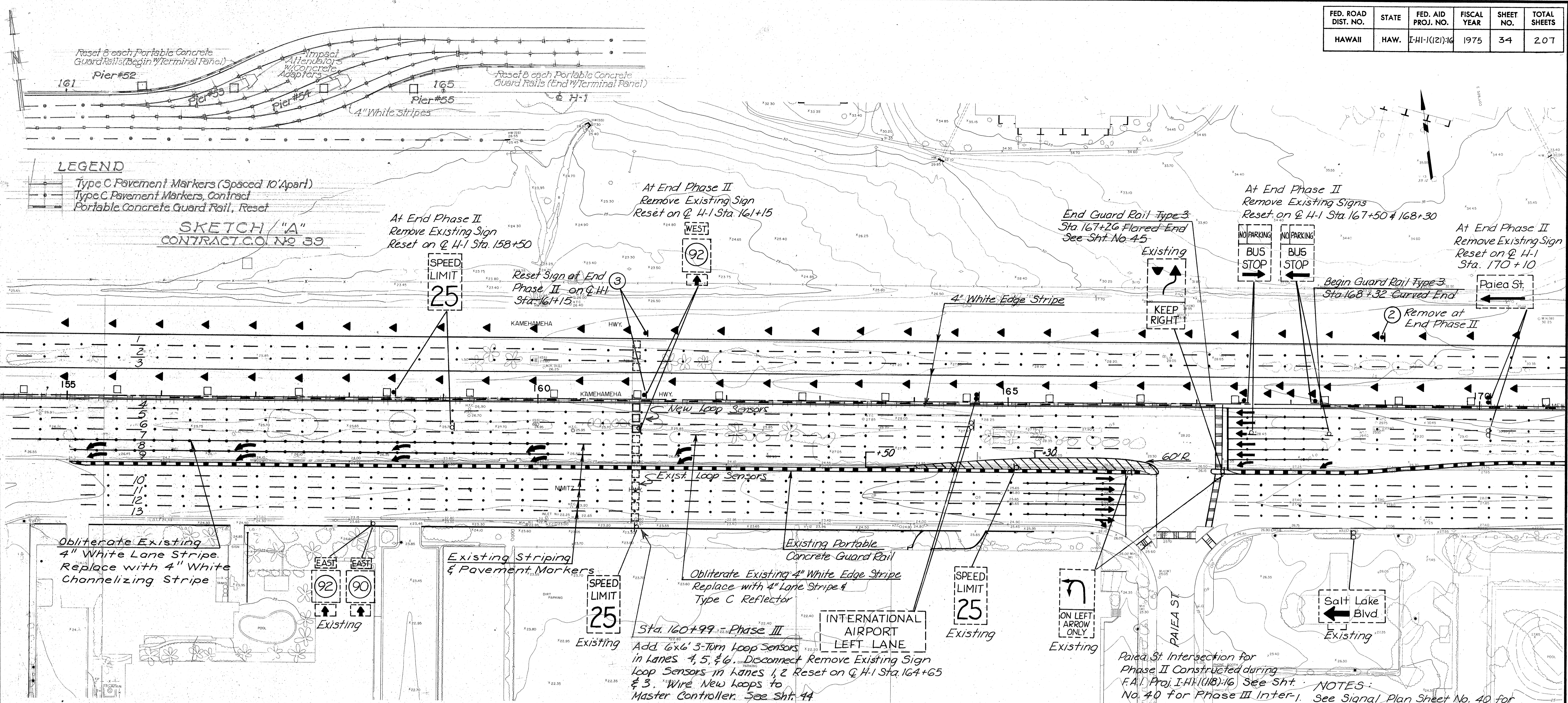
SCALE: AS SHOWN DATE: OCT 29, 1975

SHEET No. OF SHEETS

DATE	
REVISION	
NO.	

NO.	Date	Revision
1	10-31-75	Sheet added to Contract Plan Set for revised Rodgers Blvd. widening Details

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(121):16	1975	34	207

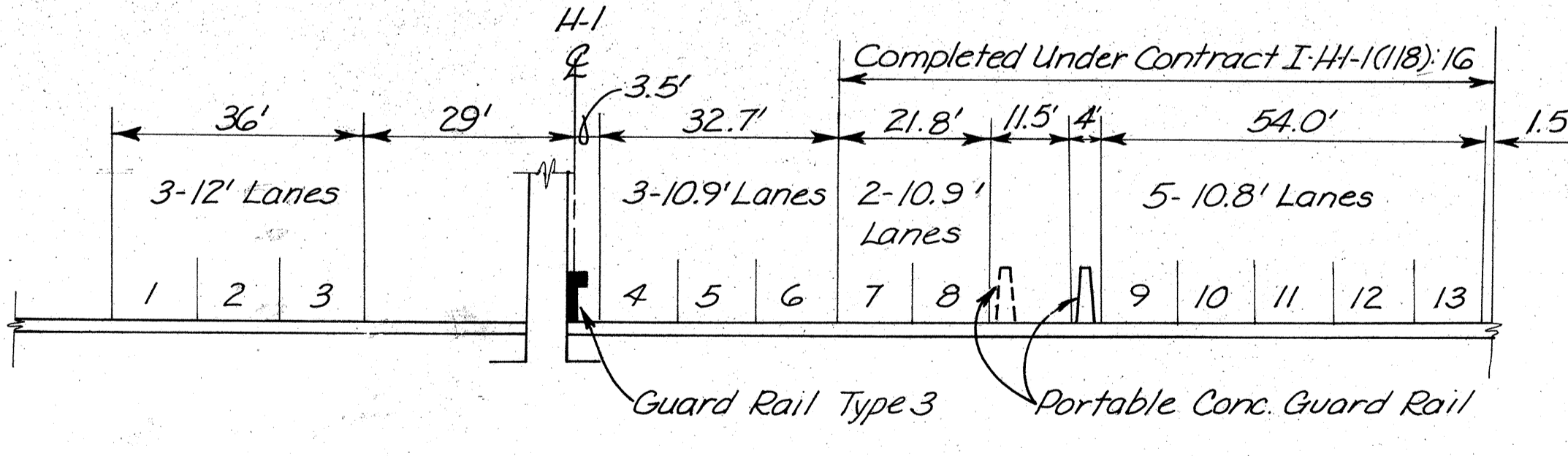


**LEGEND**  
 Type C Pavement Markers (Spaced 10' Apart)  
 Type C Pavement Markers, Contract  
 Portable Concrete Guard Rail, Reset

**SKETCH "A"**  
 CONTRACT C.O. NO. 33

**LEGEND**

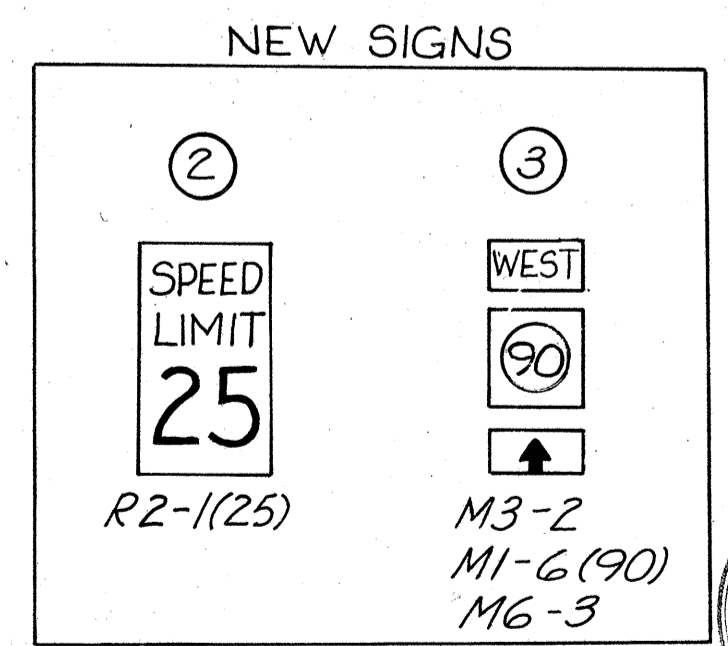
- New or Reset Traffic Cones (Tubular)
- New Portable Concrete Guard Rail-CCO#28
- Existing Portable Concrete Guard Rail
- Guard Rail Type 3 Single
- New or Relocated Traffic Sign
- 4" White Lane Stripe
- Type C Reflector
- 4" White Channelizing Stripe
- Type C Reflector



DETOUR LANES	Construction Phase II	Construction Phase III
	1, 2, 3, 7, 8, 9, 10, 11, 12, 13	4, 5, 6, 7, 8, 9, 10, 11, 12, 13

NO.	Date	Revision
1	7-9-75	Added Loop Sensors for Master System

**NOTE:**  
 Existing Tubular Traffic Cones placed during Contract I-HI-1(118):16 at 50' intervals 30' right of H-1 Q are not shown. At the End of Phase II all Surplus Traffic Cones shall be removed and stored as directed by the Engineer.



**NOTES:**  
 1. See Signal Plan Sheet No. 40 for Traffic Arrow Locations.  
 2. Remove and Salvage all Signs along Kamehameha Highway.  
 3. All Signs, Striping & Guard Rail indicated as existing will be placed during Project I-HI-1(118):16 and shall remain during Project I-HI-1(121):16 unless otherwise noted.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
 HENRY M. SUMIDA  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 1461-E  
 HAWAII, U.S.A.

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**CONSTRUCTION DETOUR**

AIRPORT INTERCHANGE  
 F.A.I. PROJ. NO. I-HI-1(121):16

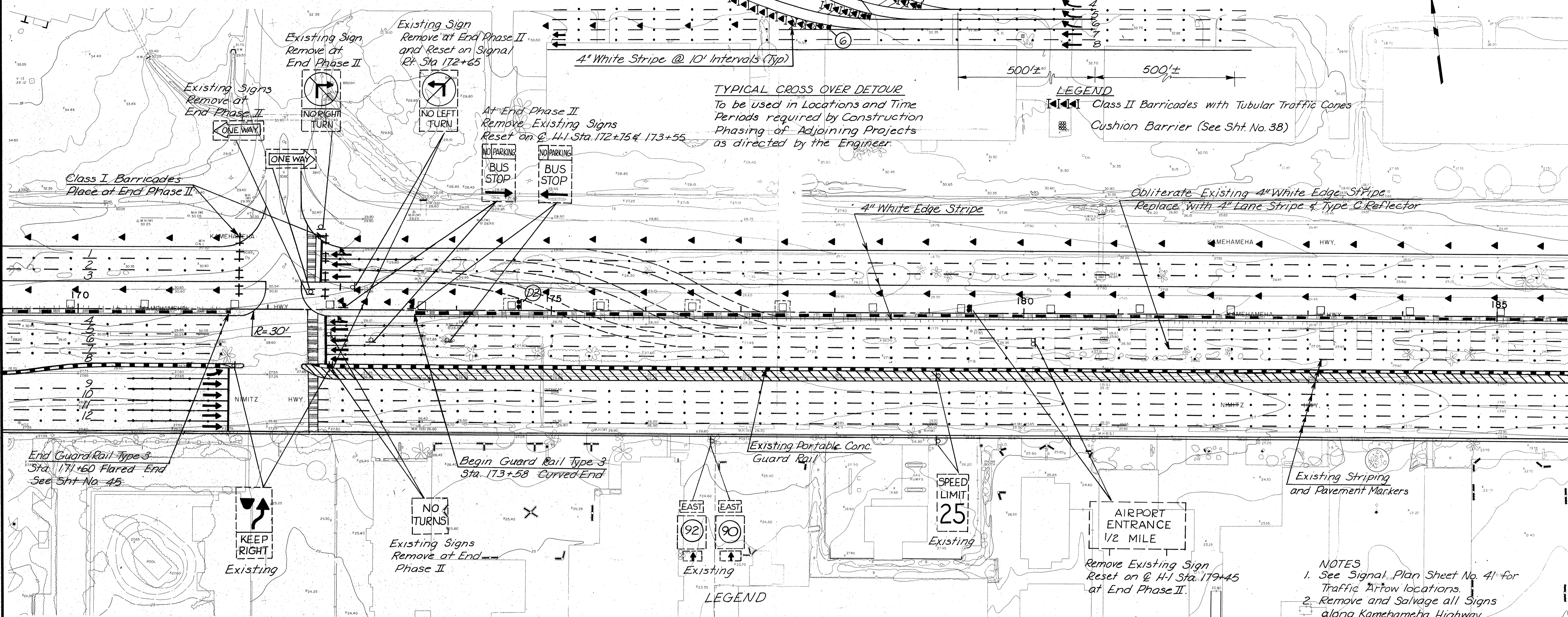
SCALE: 1" = 50' DATE: MAY 1, 1975  
 SHEET No. 2 OF 5 SHEETS

DATE  
 SURVEY PLOTTED BY  
 ORIGINAL PLAN  
 DESIGNED BY  
 NOTE BOOK  
 QUANTITIES BY  
 CHECKED BY

Salt Lake Blvd Intersection for Phase II Constructed during F.A.I. Proj. I-HI-1(118):16. See Sht. No. 41 for Phase III Intersection Layout

NOTE  
Obliterate Pavement Striping in Lanes 1, 2, & 3 in cross over area.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(121)16	1975	35	207



TYPICAL CROSS OVER DETOUR  
To be used in Locations and Time Periods required by Construction Phasing of Adjoining Projects as directed by the Engineer.

LEGEND  
 Class II Barricades with Tubular Traffic Cones  
 Cushion Barrier (See Sht. No. 38)

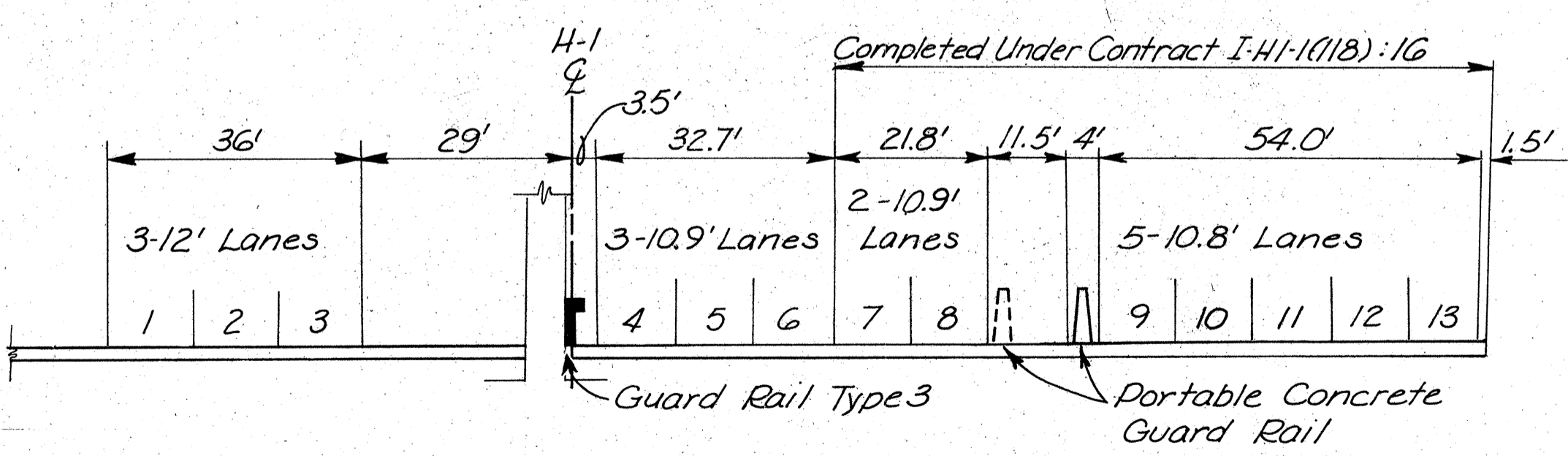
LEGEND  
 Class I Barricade

New or Reset Traffic Cones (Tubular)  
 New Portable Concrete Guard Rail  
 Existing Portable Concrete Guard Rail  
 Guard Rail Type 3 Single  
 New or Relocated Traffic Sign  
 4" White Lane Stripe, Type C Reflector  
 4" White Channelizing Stripe, Type C Reflector

NEW SIGNS

W1-4(R)-A  
 W13-1(25)-A  
 WIZ-1  
 RM-9

- NOTES
- See Signal Plan Sheet No. 41 for Traffic Arrow locations.
  - Remove and Salvage all Signs along Kamehameha Highway.
  - All Signs, Striping, and Guard Rail indicated as existing will be placed during Project I-HI-1(118):16 and shall remain during Project I-HI-1(121):16 unless otherwise noted. Those signs indicated as existing which are to be removed but not reset shall be stored as directed by the Engineer.



DETOUR LANES	Construction Phase II	Construction Phase III
	1, 2, 3, 7, 8, 9, 10, 11, 12, & 13	4, 5, 6, 7, 8, 9, 10, 11, 12, & 13

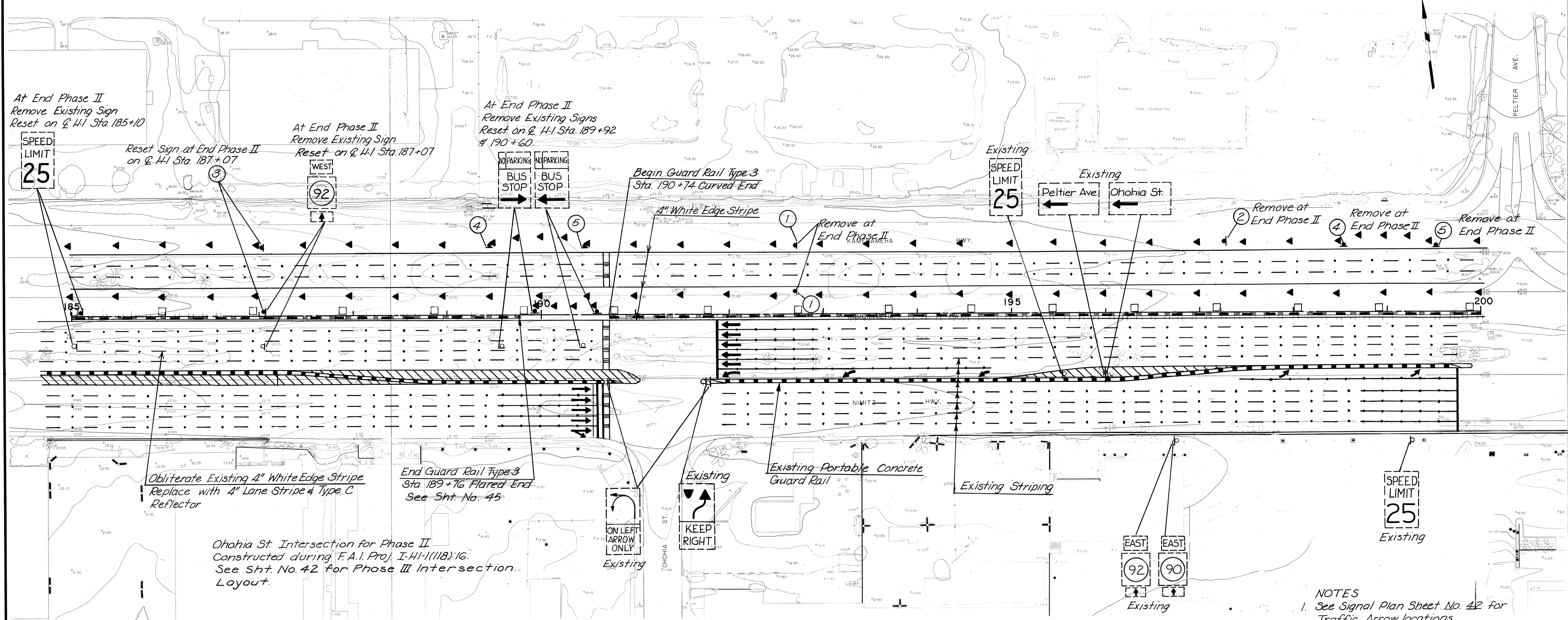
NOTE:  
Existing Tubular Traffic Cones placed during Contract I-HI-1(118):16 at 50' intervals 30' right of H-1 C are not shown. At End of Phase II all surplus Traffic Cones shall be removed and stored as directed by the Engineer.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
  
 HENRY M. SUMIDA  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 1461-E  
 HAWAII, U.S.A.

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**CONSTRUCTION DETOUR**  
 AIRPORT INTERCHANGE  
 F.A.I. PROJ. NO. I-HI-1(121):16  
 SCALE: 1" = 50'      DATE: MAY 1, 1975  
**SHEET No. 3 OF 5 SHEETS**

DATE	
REVISION	
BY	
CHECKED BY	
QUANTITIES BY	
TRACED BY	
DRAWN BY	
DESIGNED BY	
ORIGINAL PLAN	
NO. 1	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(121)16	1975	36	207



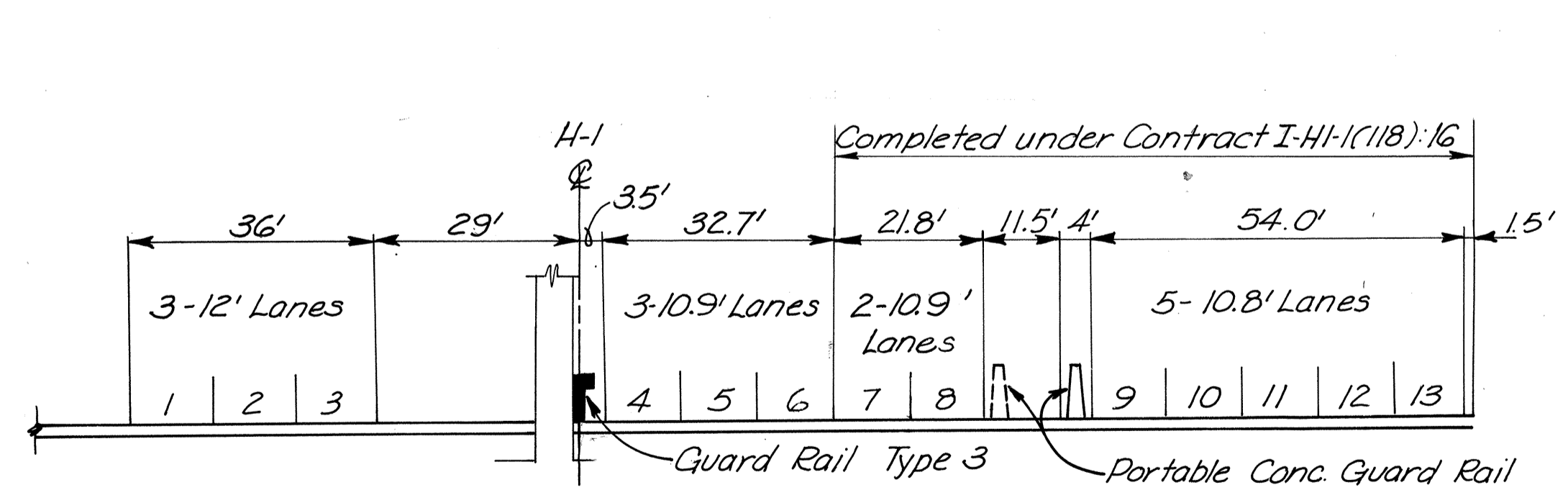
Obliterate Existing 4" White Edge Stripe  
Replace with 4" Lane Stripe & Type C Reflector

End Guard Rail Type 3  
Sta. 189+76 Flared End  
See Sht. No. 45

Ohohia St Intersection for Phase II  
Constructed during F.A.I. Proj. I-HI-1(118)16.  
See Sht. No. 42 for Phase III Intersection Layout.

- NOTES
- See Signal Plan Sheet No. 42 for Traffic Arrow locations.
  - Remove and Salvage all Signs along Kamehameha Highway.
  - All Signs, Striping and Guard Rail indicated as existing will be placed during Project I-HI-1(118)16 and shall remain during Project I-HI-1(121)16 unless otherwise noted.

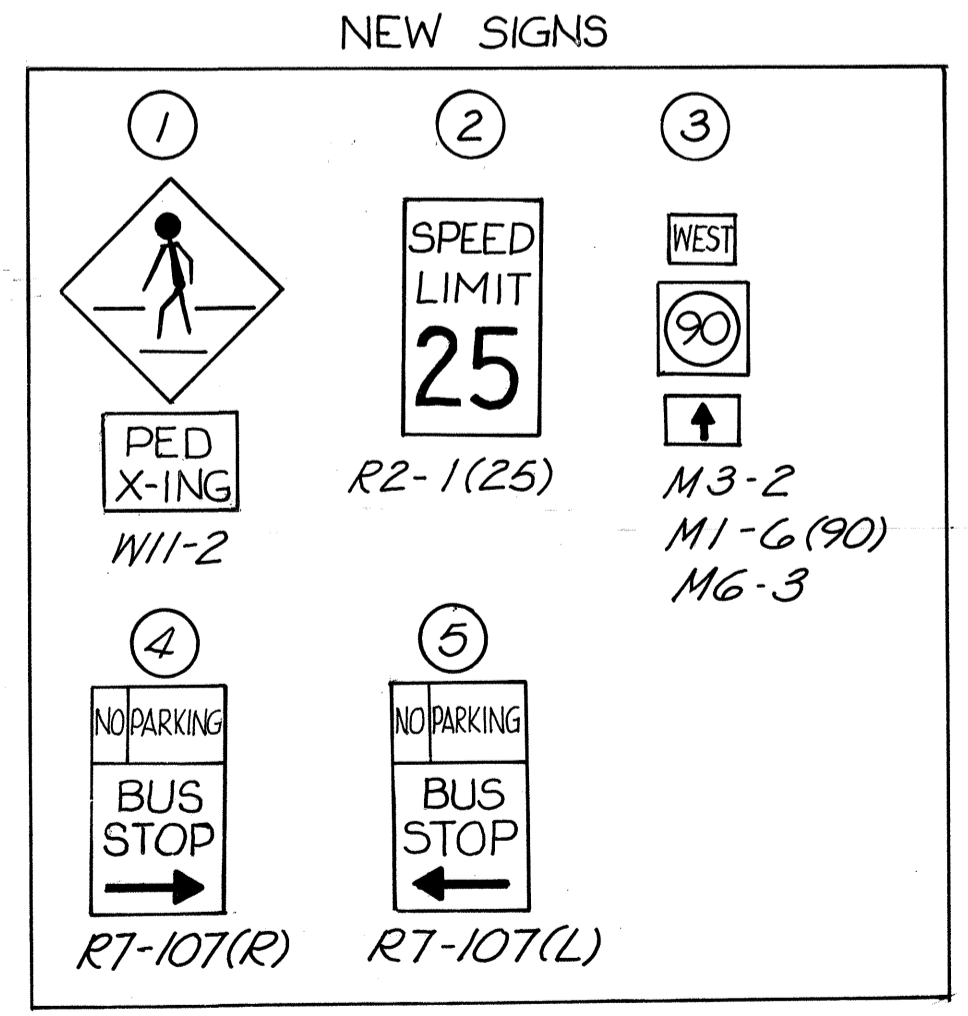
DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
DATE	_____
DESIGNED BY	_____
CHECKED BY	_____



STA. 185+00 to 200+00	
DETOUR LANES	Construction Phase II 1, 2, 3, 7, 8, 9, 10, 11, 12, & 13
	Construction Phase III 4, 5, 6, 7, 8, 9, 10, 11, 12 & 13

- LEGEND:
- New or Reset Traffic Cones (Tubular)
  - Existing Portable Concrete Guard Rail
  - New Portable Concrete Guardrail-CCO#28
  - Guard Rail Type 3 Single
  - New or Relocated Traffic Sign
  - 4" White Lane Stripe - Type C Reflector
  - 4" White Channelizing Stripe - Type C Reflector

NOTE  
Existing Tubular Traffic Cones placed during Contract I-HI-1(118)16 at 50' intervals 30' right of H-I-C are not shown. At End of Phase II all surplus Traffic Cones shall be removed and stored as directed by the Engineer.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

CONSTRUCTION DETOUR

AIRPORT INTERCHANGE  
F.A.I. PROJ. NO. I-HI-1(121)16

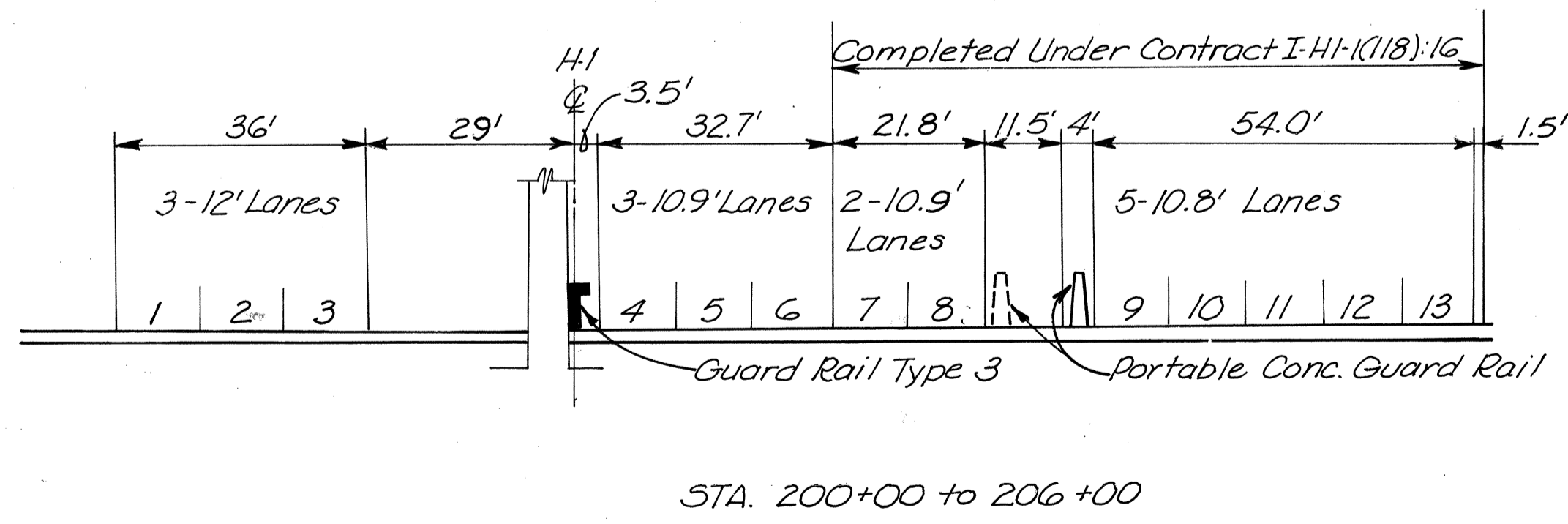
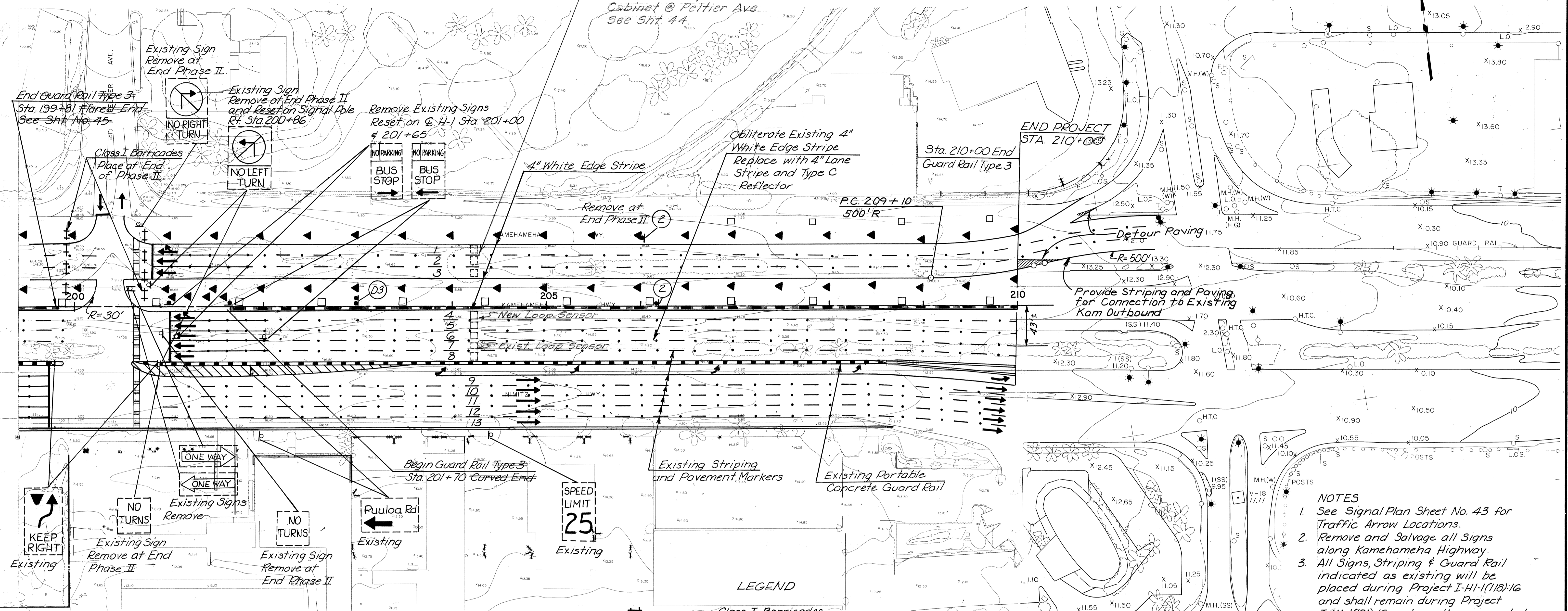
SCALE: 1" = 50' DATE: MAY 1, 1975

SHEET No. 4 OF 5 SHEETS

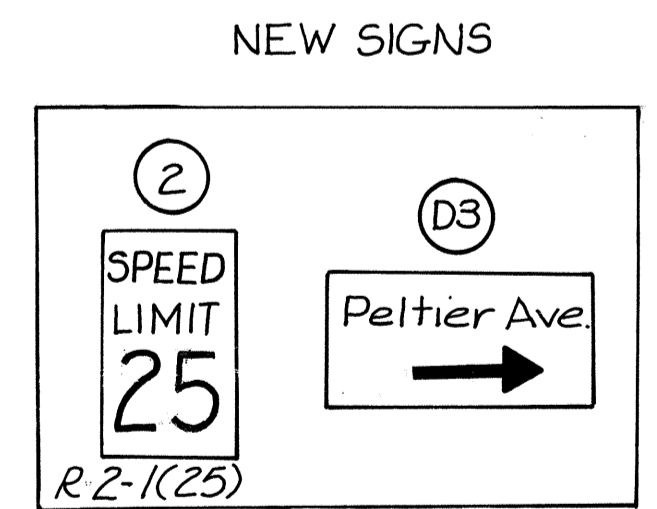
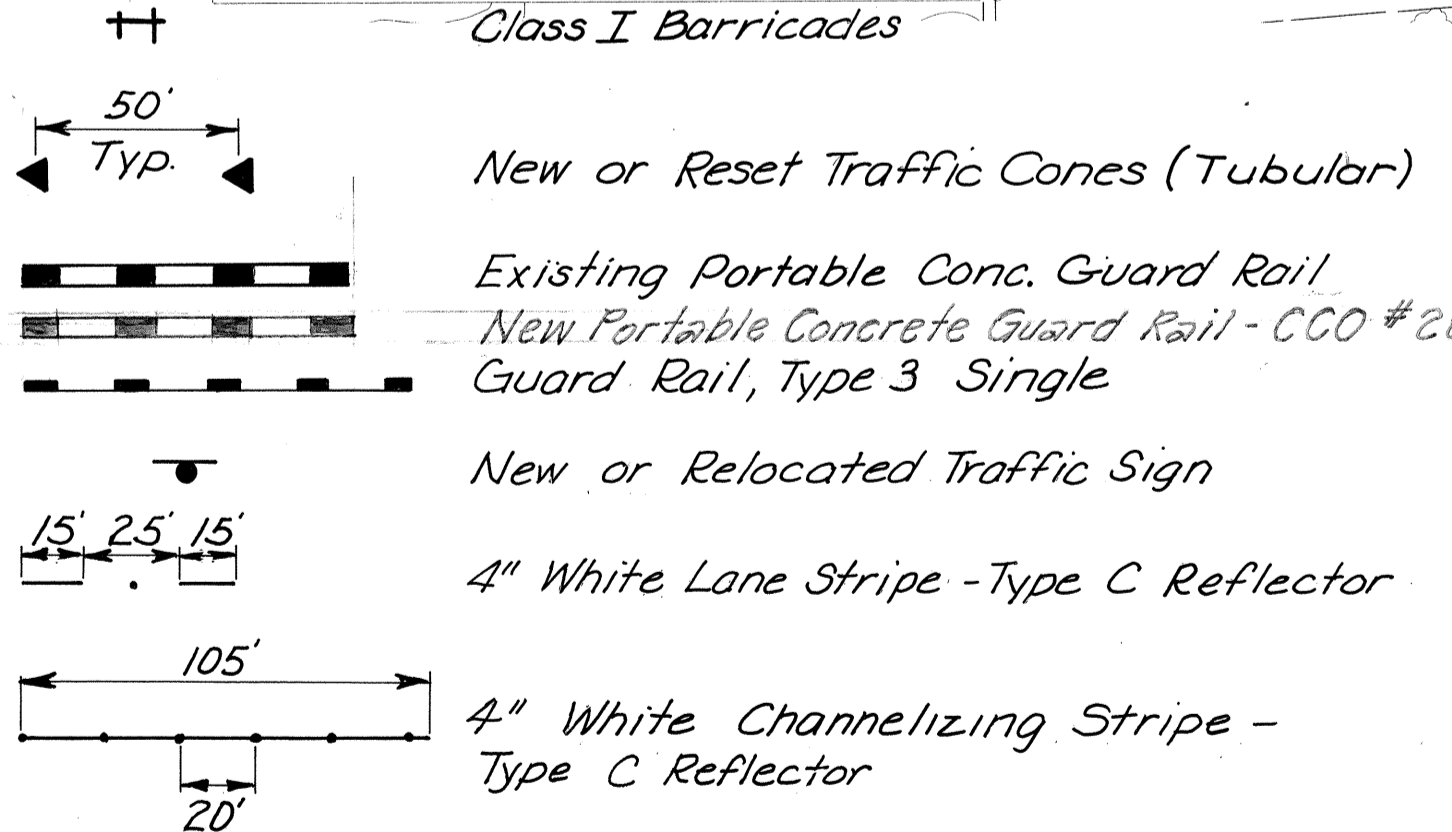
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(118)16	1975	37	207

Peltier Ave. Intersection for Phase II constructed during F.A.I. Proj I-HI-1(118)16. See Sht. No. 43 for Phase III Intersection Layout.

Sta. 204+19 - Phase III  
Add 6'x6' 3-Turn Loop Sensors in Lanes 4, 5, & 6. Disconnect Loop Sensors in Lanes 1, 2, & 3. Wire New Loops to Controller Cabinet @ Peltier Ave. See Sht. 44.



DETOUR LANES	Construction Phase II	Construction Phase III
	1, 2, 3, 7, 9, 10, 11, 12 & 13	4, 5, 6, 7, 9, 10, 11, 12 & 13



- NOTES**
- See Signal Plan Sheet No. 43 for Traffic Arrow Locations.
  - Remove and Salvage all Signs along Kamehameha Highway.
  - All Signs, Striping & Guard Rail indicated as existing will be placed during Project I-HI-1(118)16 and shall remain during Project I-HI-1(121)16 unless otherwise noted. Those signs indicated as existing which are to be removed but not reset shall be stored as directed by the Engineer.

**NOTE:**  
Existing Tubular Traffic Cones placed during Contract I-HI-1(118)16 at 50' intervals 30' right of H-1 are not shown. At End of Phase II all surplus Traffic Cones shall be removed and stored as directed by the Engineer.

No.	Date	Revision
1	7-9-75	Added Loop Sensors for Master System

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CONSTRUCTION DETOUR**

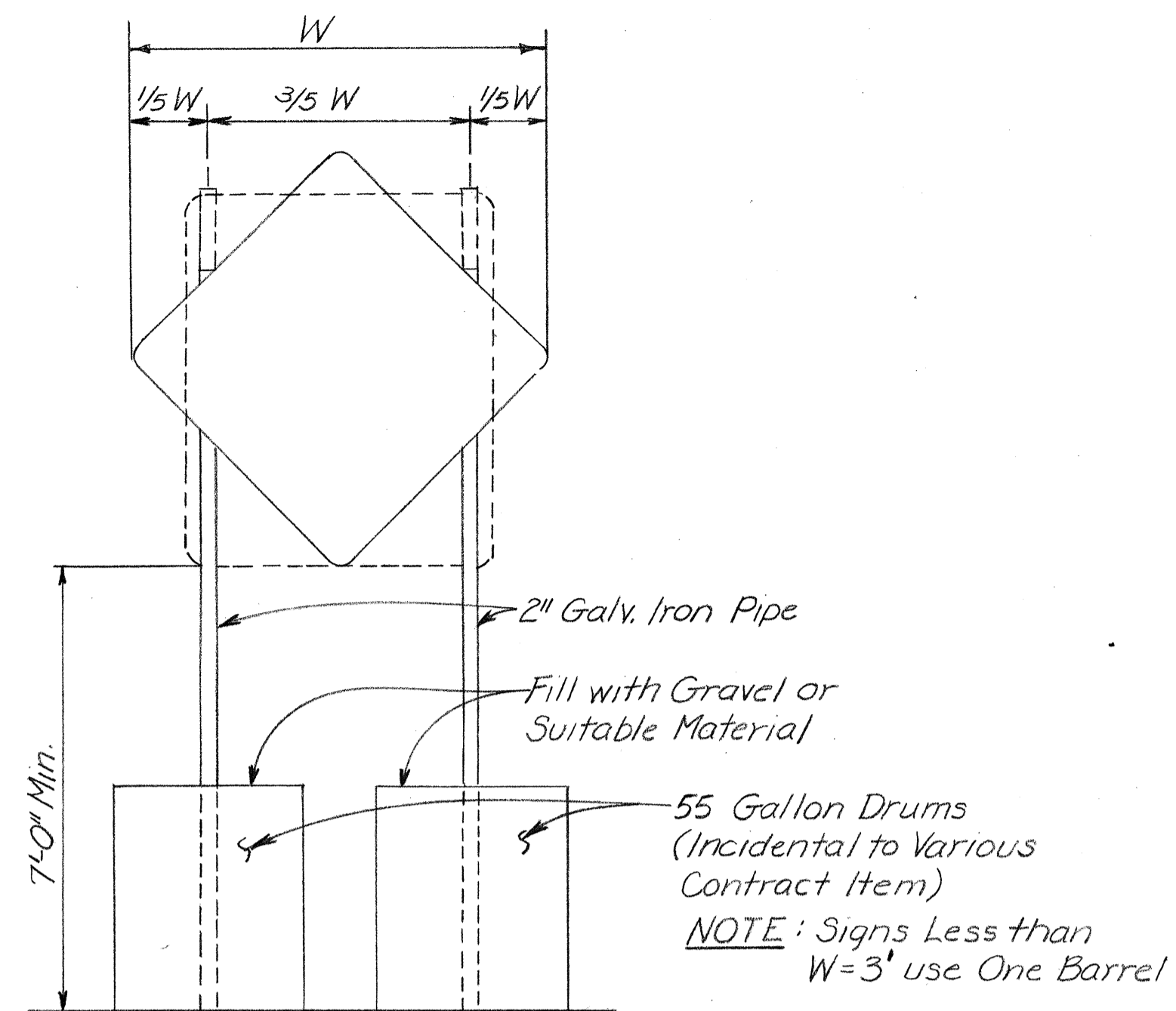
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F.A.I. PROJ. NO. I-HI-1(121)16  
SCALE: 1" = 50' DATE: MAY 1, 1975

**SHEET No. 5 OF 5 SHEETS**

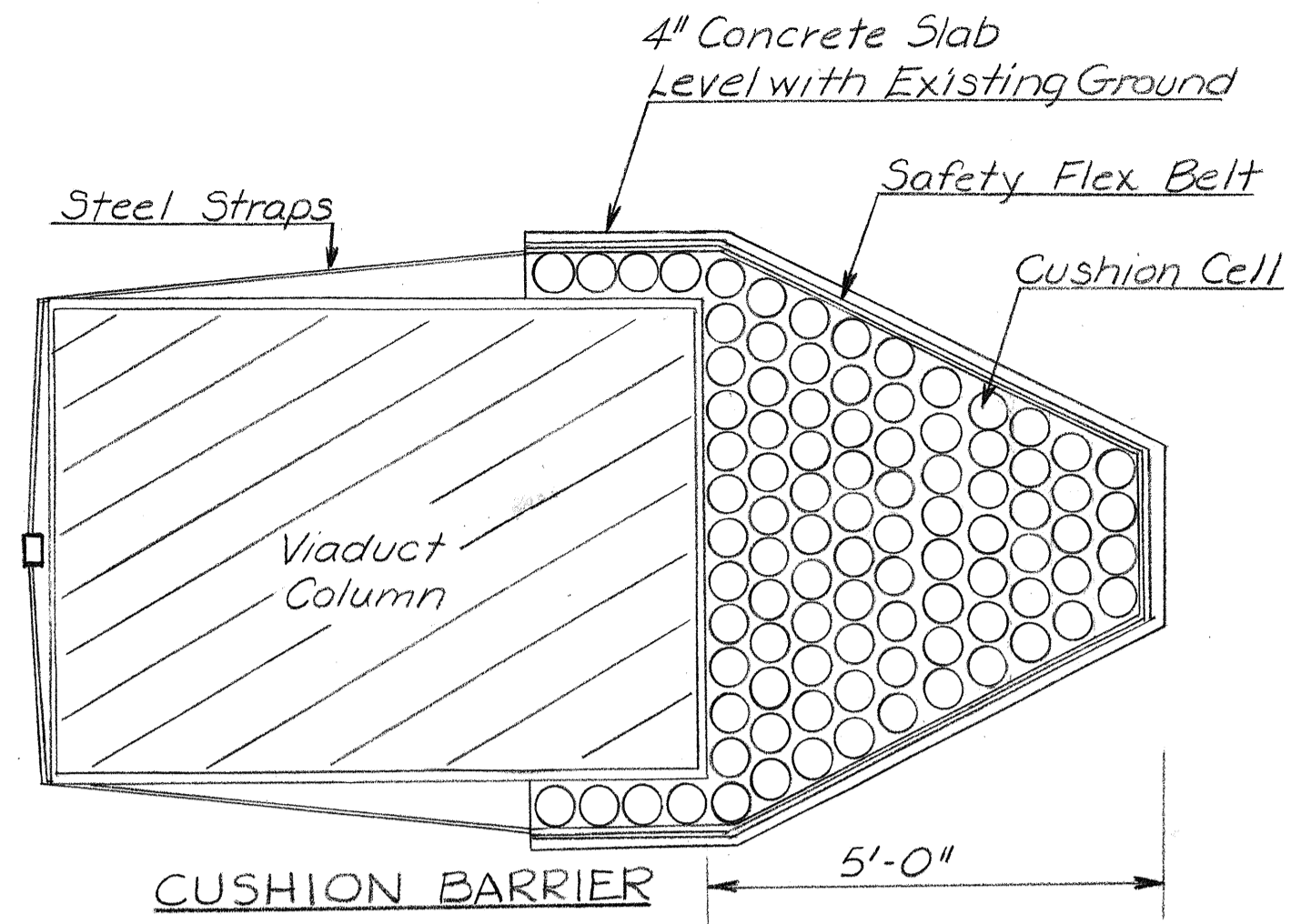
DATE  
DRAWN BY  
CHECKED BY  
DESIGNED BY  
NOTED BY  
QUANTITIES BY  
REVISIONS BY

K&E

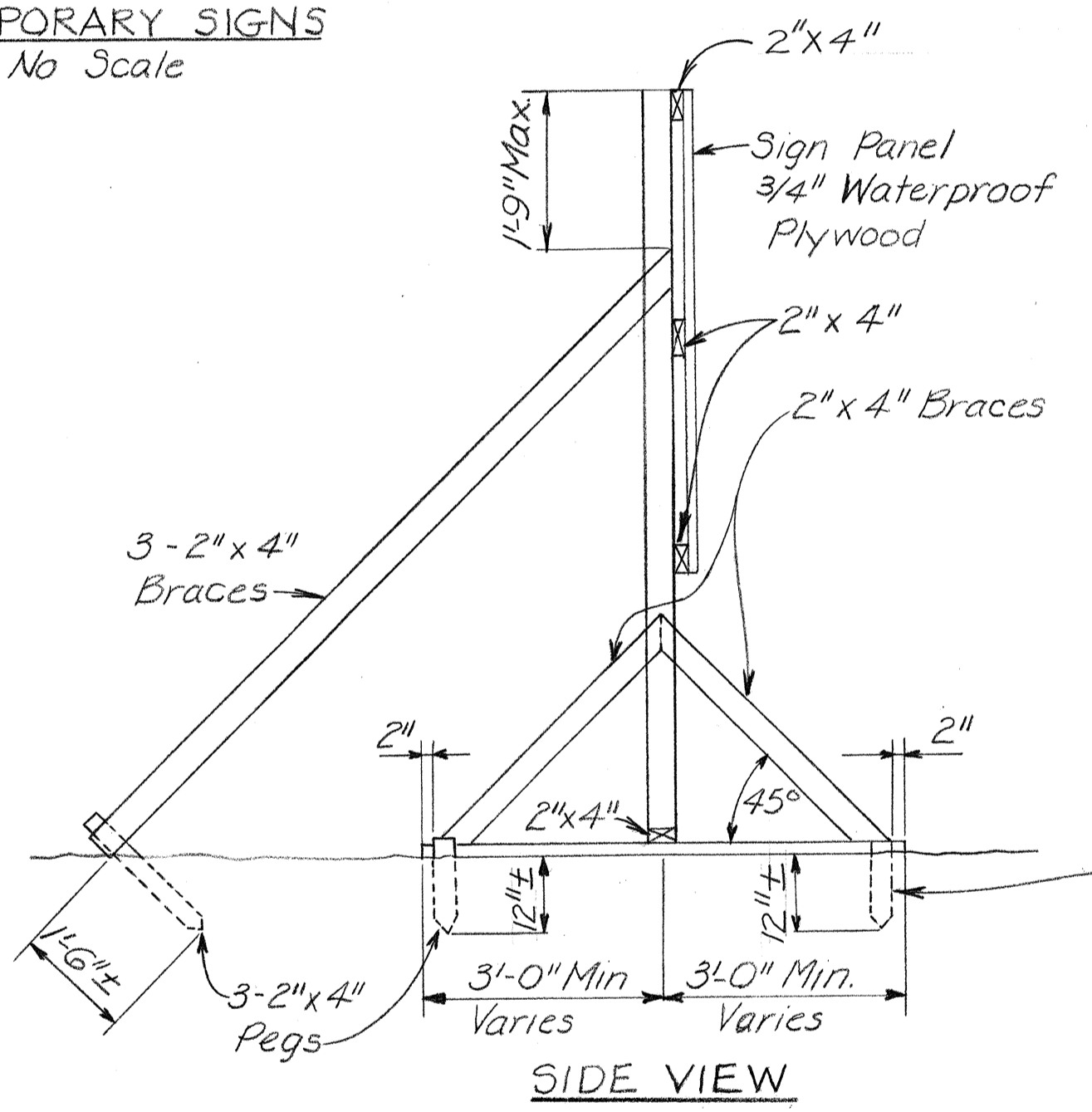
ADD 37



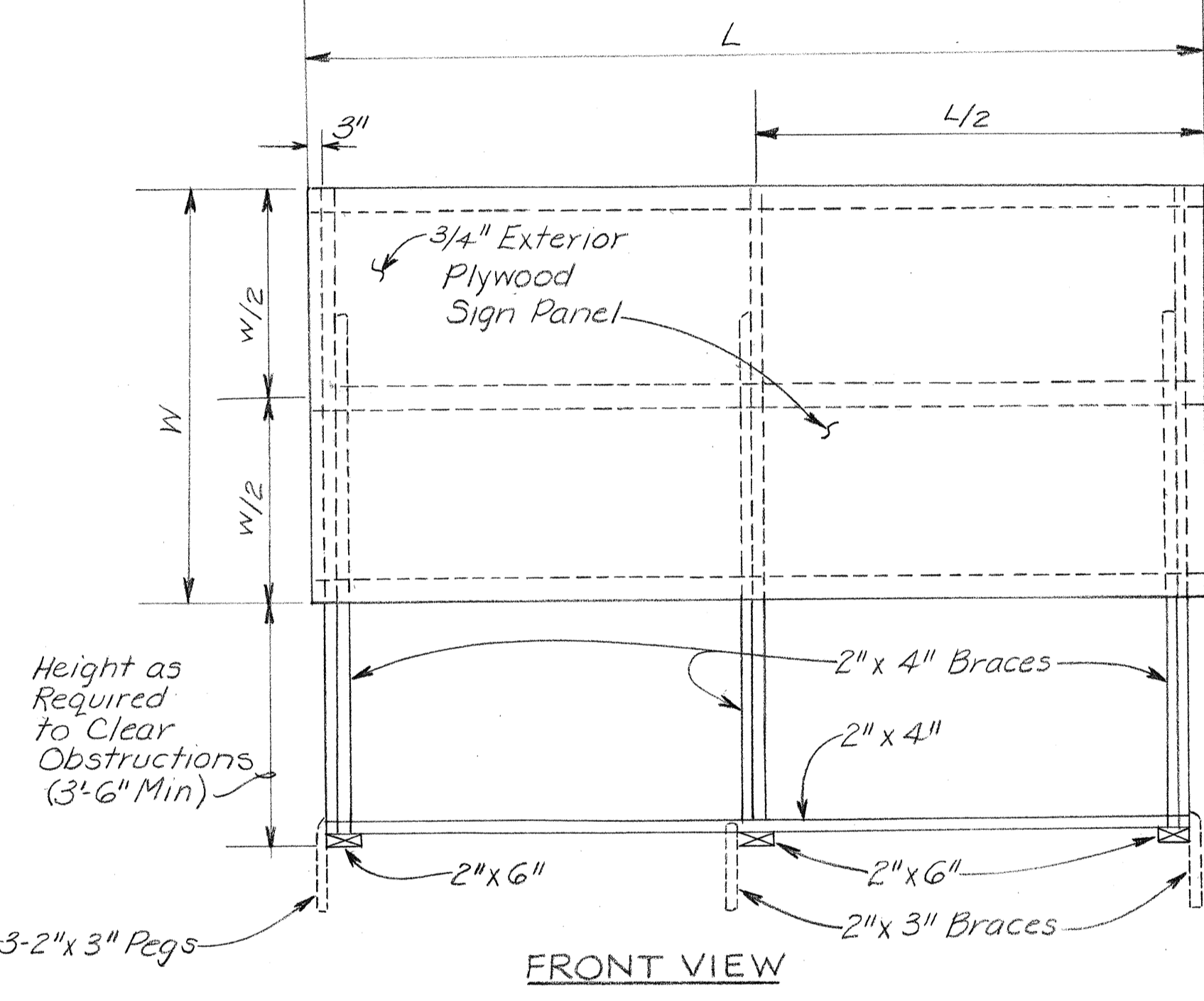
**BARREL SUPPORT FOR TEMPORARY SIGNS**  
No Scale



**CUSHION BARRIER** 5'-0"

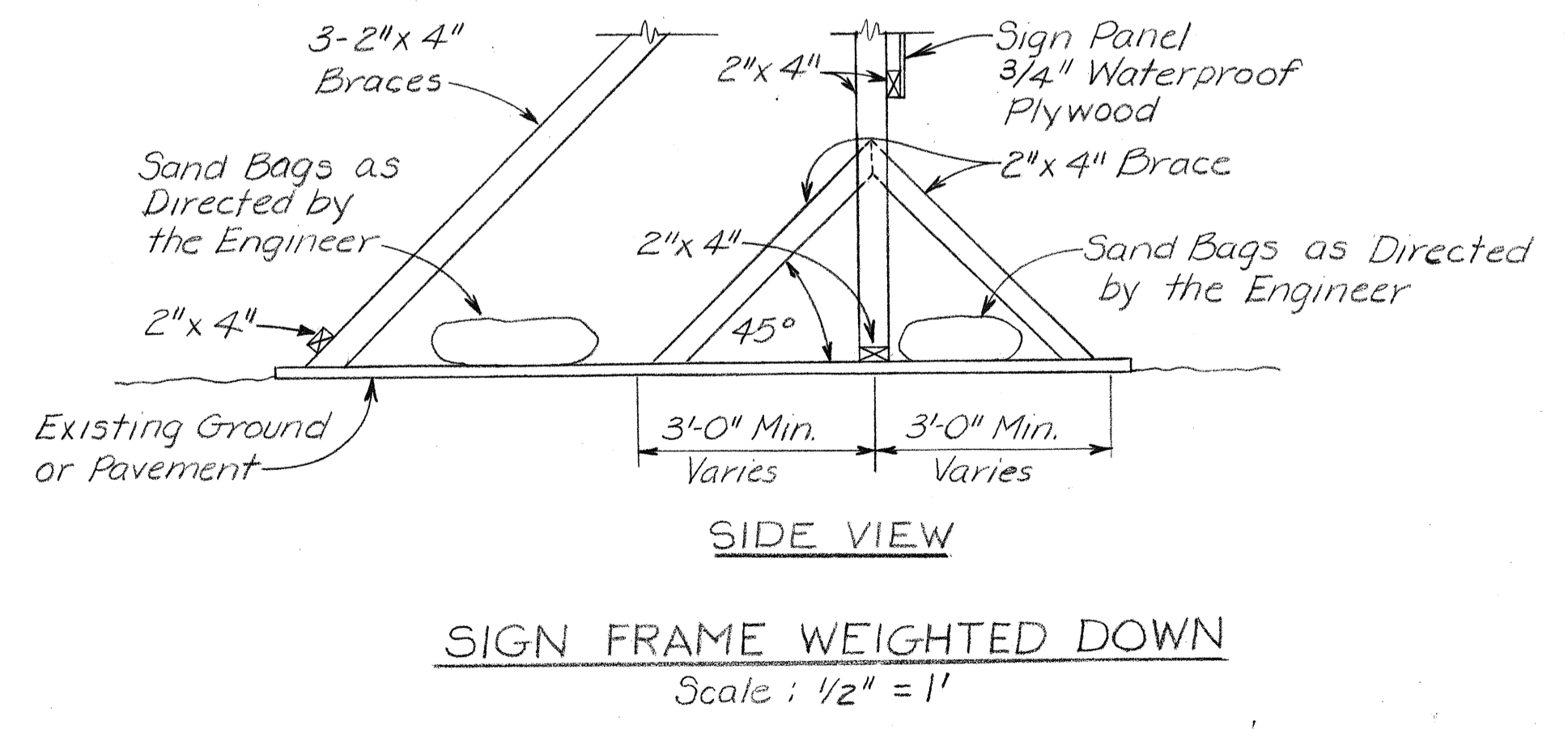


**SIDE VIEW**



**FRONT VIEW**

**SIGN FRAME ANCHORED IN GROUND**  
Scale: 1/2" = 1'-0"

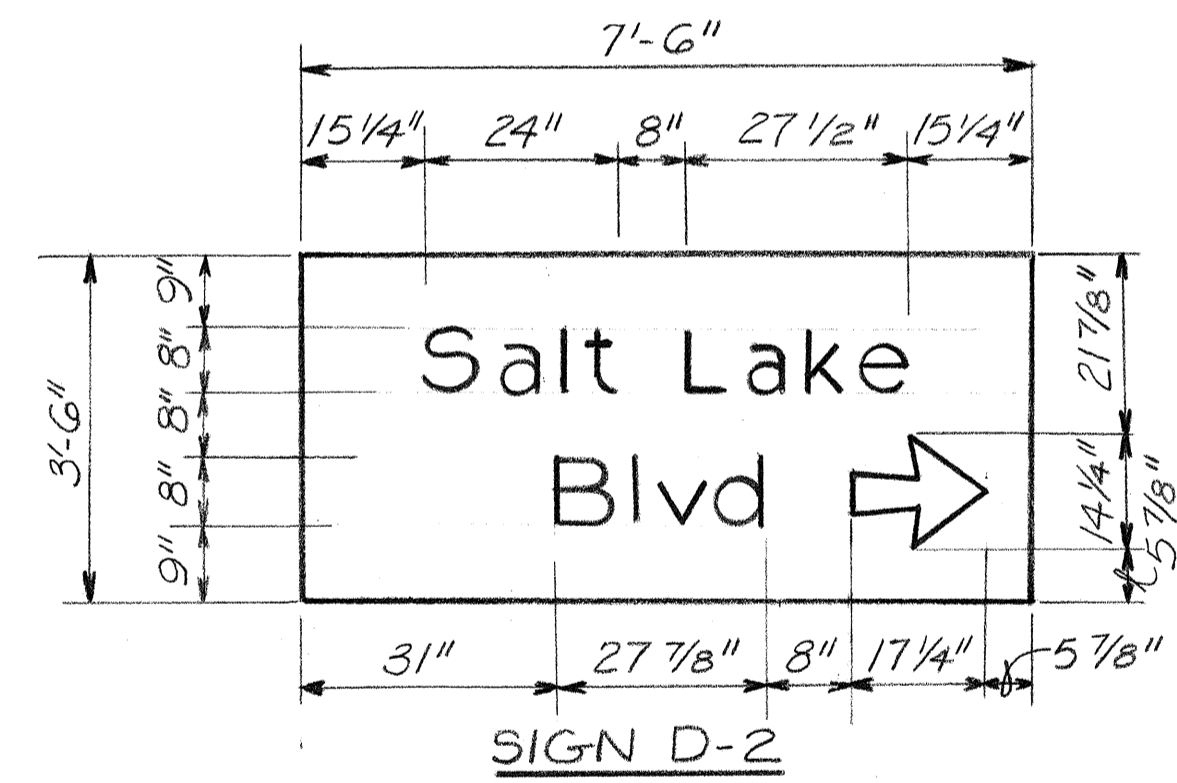


**SIDE VIEW**

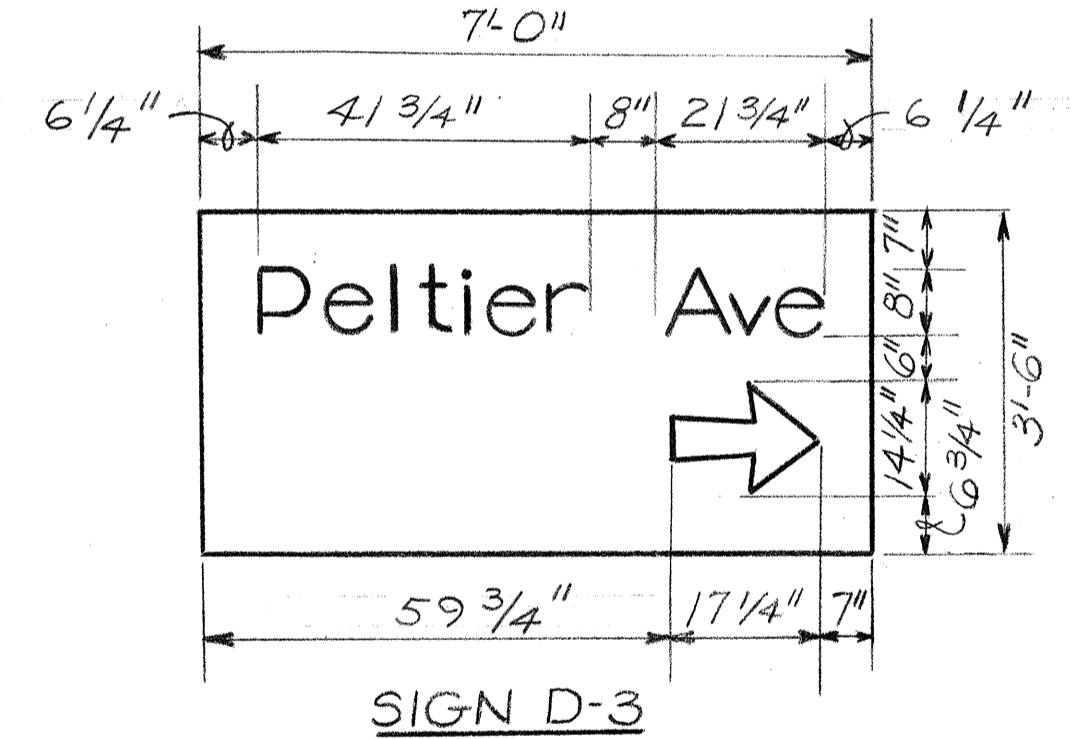
**SIGN FRAME WEIGHTED DOWN**  
Scale: 1/2" = 1'

- NOTES:**
1. Temporary Detour Signs to be made of 3/4" Water Proof Plywood. Sign Legend shall be Reflectorized White on Green Background.
  2. The Contractor shall Construct, Install, and Maintain the Signs at the Locations Shown on Plans and as Ordered by the Engineer.
  3. Letters shall be Series "E" of the sizes shown on the plan and shall conform to the "Standard Alphabet for Highway Signs", Bureau of Public Roads, 1966.

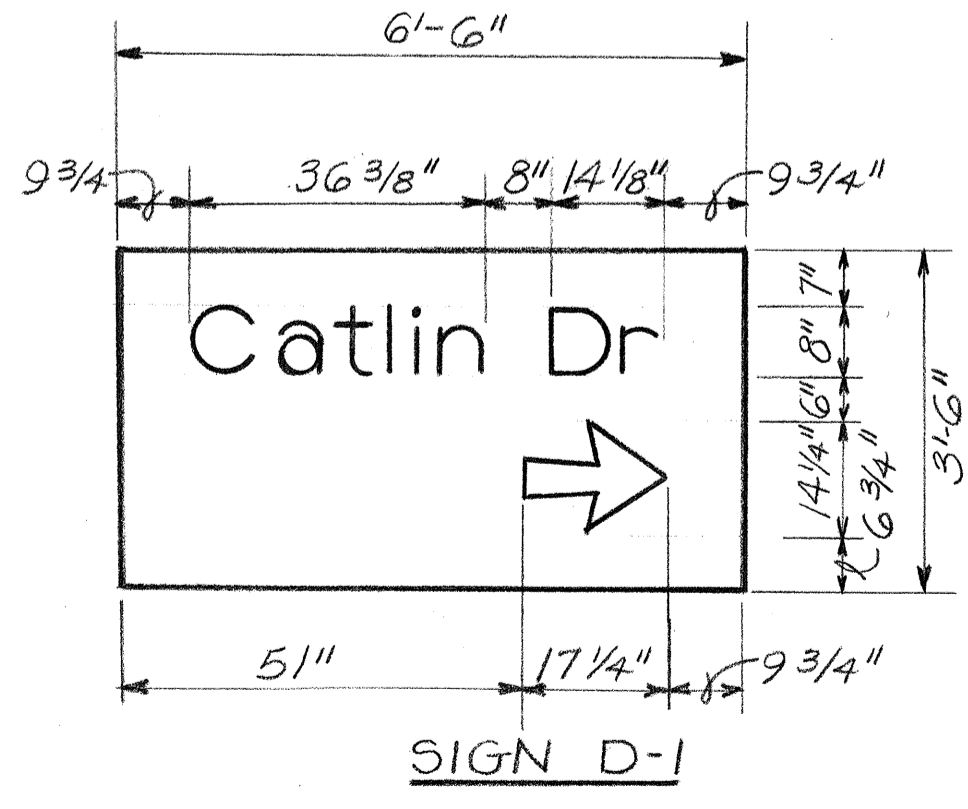
TYPE	DESCRIPTION	QUANTITIES BY PHASES					TOTAL QUANTITY
		PHASE I		PHASE II		PHASE III	
		W/P	WO/P	W/P	WO/P	W/P	
CW20-2d	Detour Ahead			3			3
W20-2	Detour 500 ft.			3			3
W12-1				5			5
R2-1(25)	Speed Limit			3	1		4
R7-107	Bus Stop			4			4
W11-2	Ped Xing			4			4
W-1-4(L)A				3			3
W-13-1(25)A	25 MPH			3			3
<b>TOTAL W/P</b>							29
M1-6	Route Marker Type A			2			2
M1-6	Route Marker Type B				2		2
<b>TOTAL A</b>							2
<b>TOTAL B</b>							2
D-1	Catlin Dr → (23)				1		1
D-2	Salt Lake Blvd → (27)				1		1
D-3	Peltier Ave → (25)				1		1
<b>Temporary Detour Sign Panels in Sq Ft.</b>							75



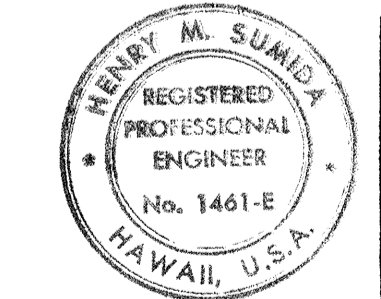
**SIGN D-2**



**SIGN D-3**



**SIGN D-1**



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

**STATE OF HAWAII**  
**DEPARTMENT OF TRANSPORTATION**  
**HIGHWAYS DIVISION**

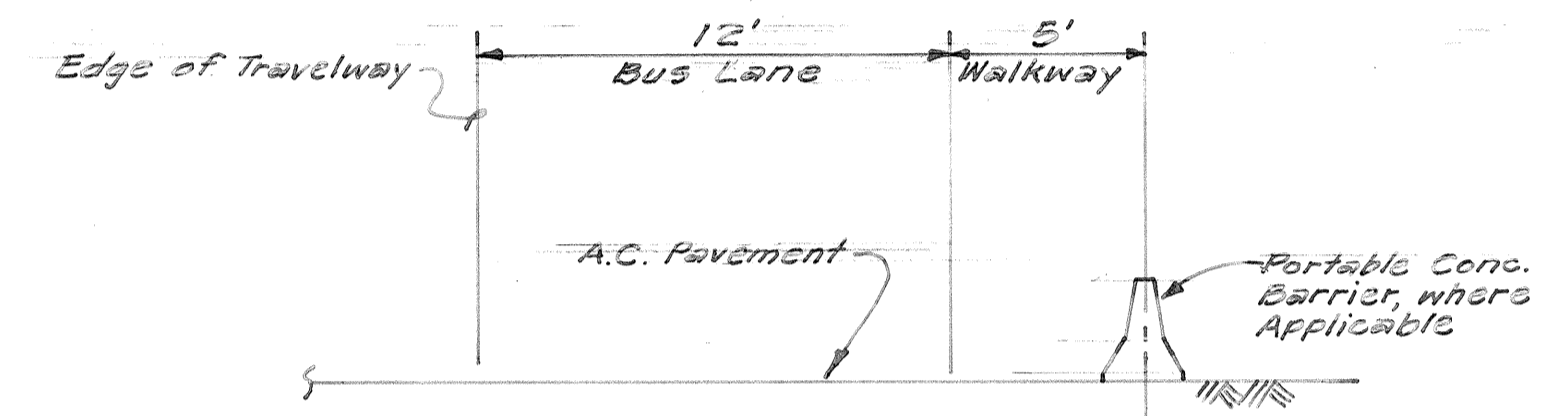
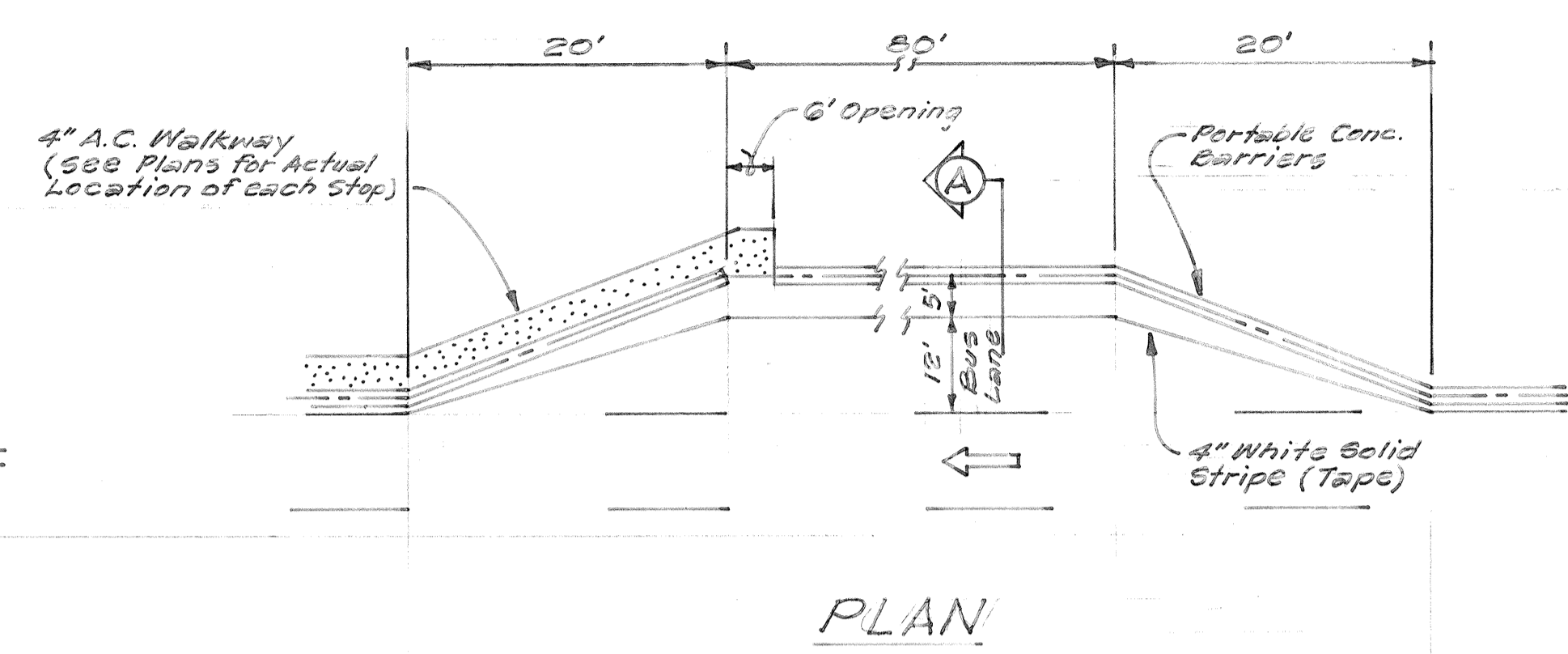
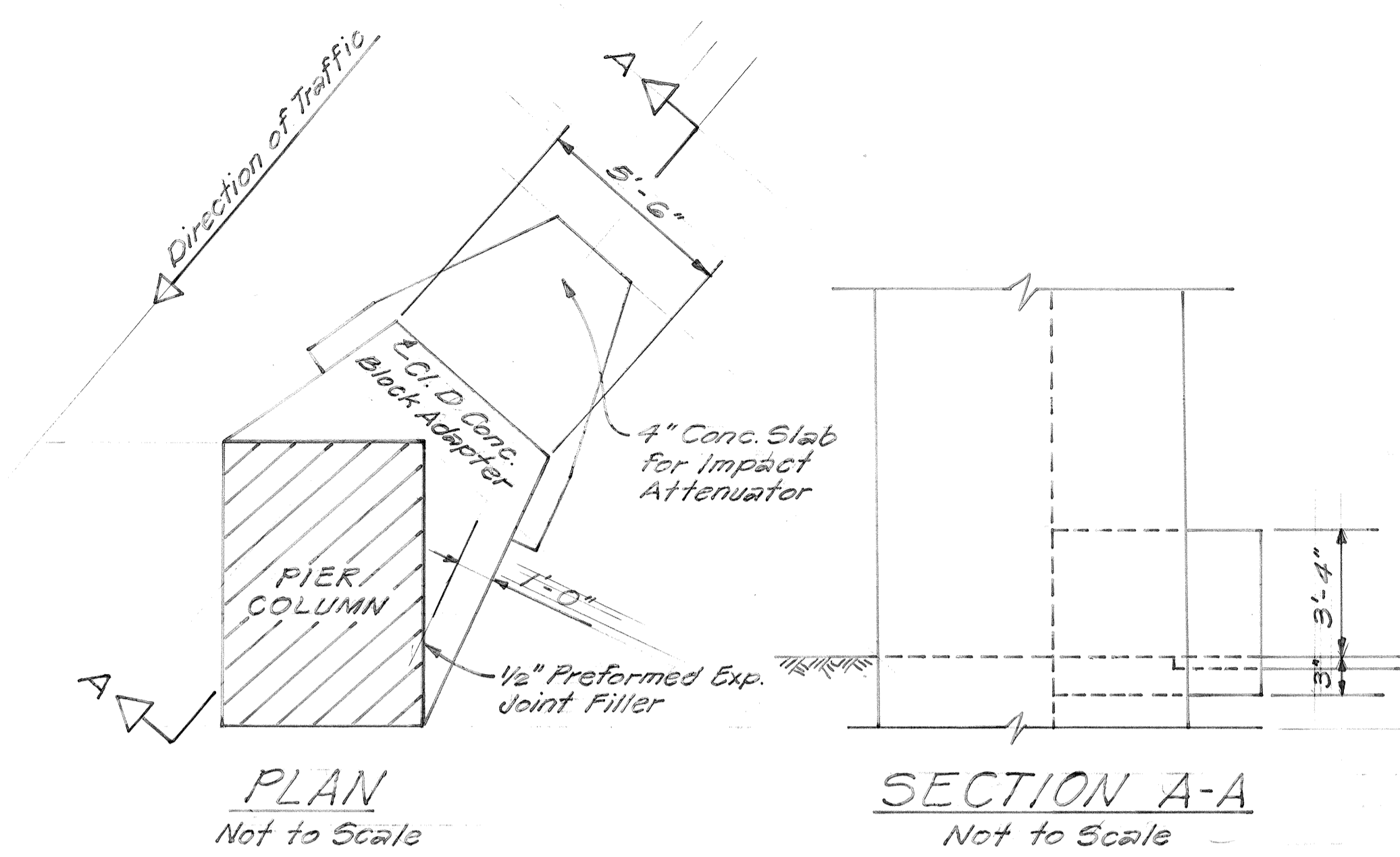
**DETOUR DETAILS AND SIGN SUMMARY**

AIRPORT INTERCHANGE  
FAI PROJ. NO. I-HI-(121)16  
SCALE: AS SHOWN DATE: MAY 1, 1975

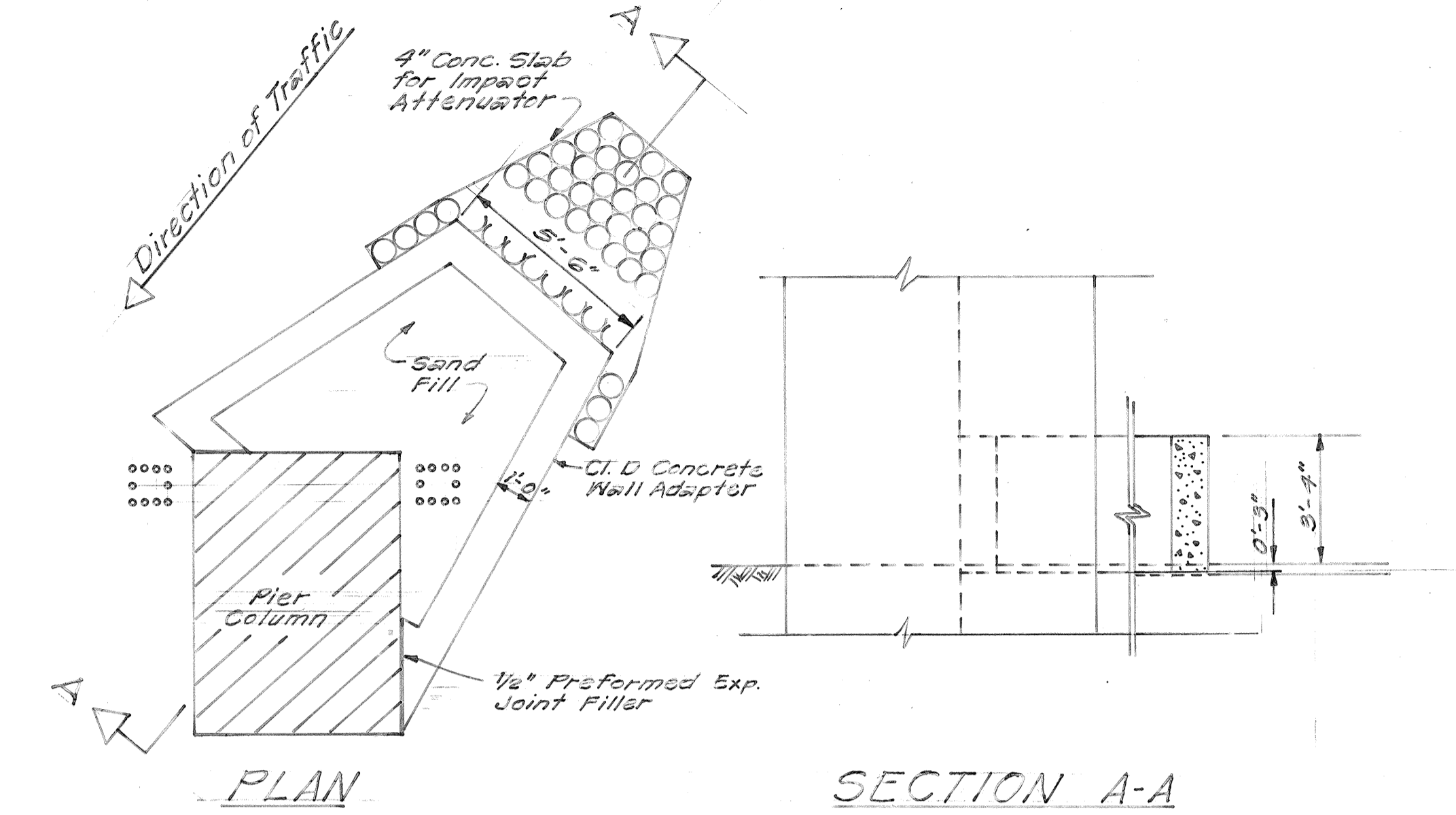
**SHEET No. 1 OF 1 SHEETS**

DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

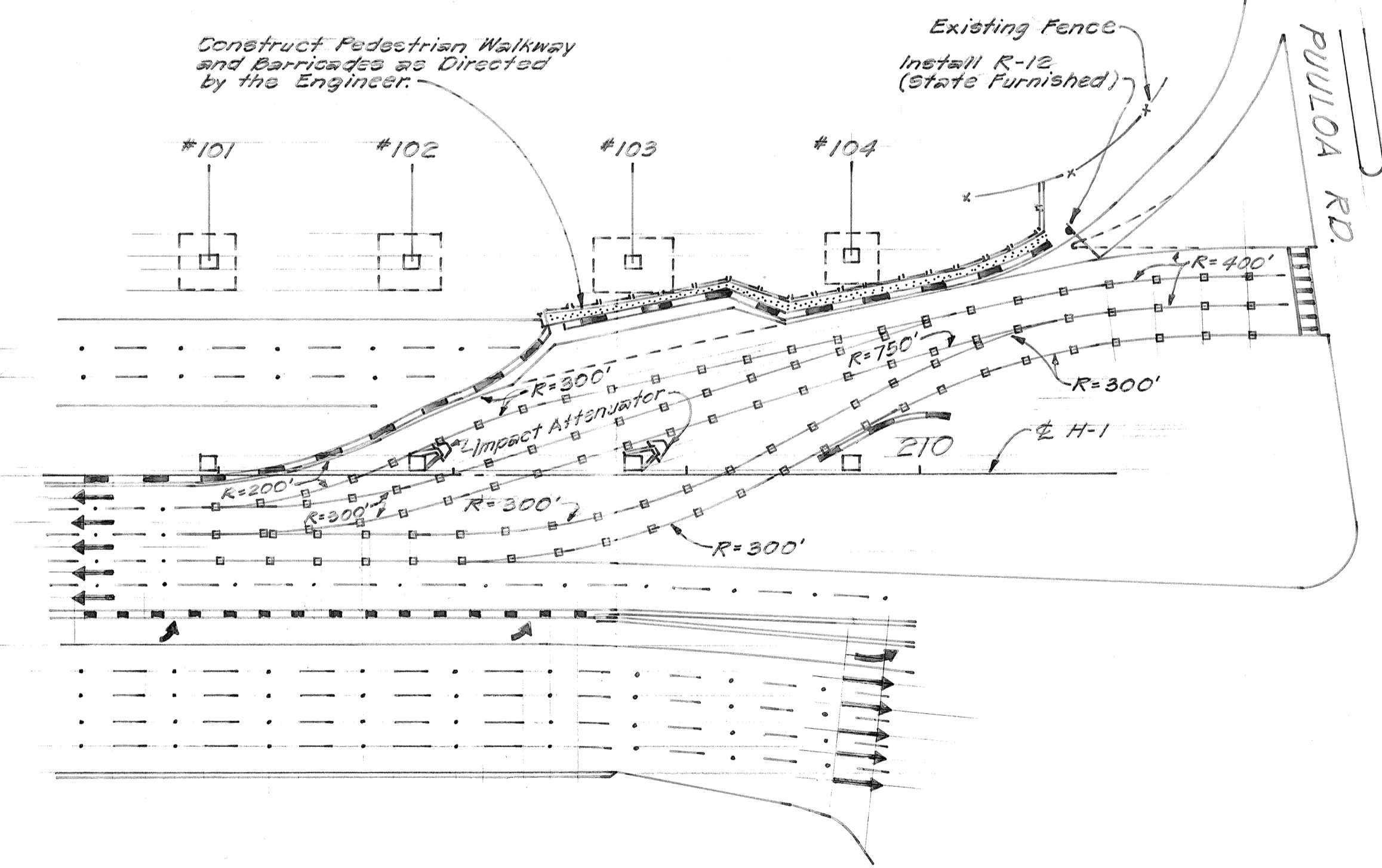
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				



**TYPICAL BUS DETAIL**  
Not to Scale



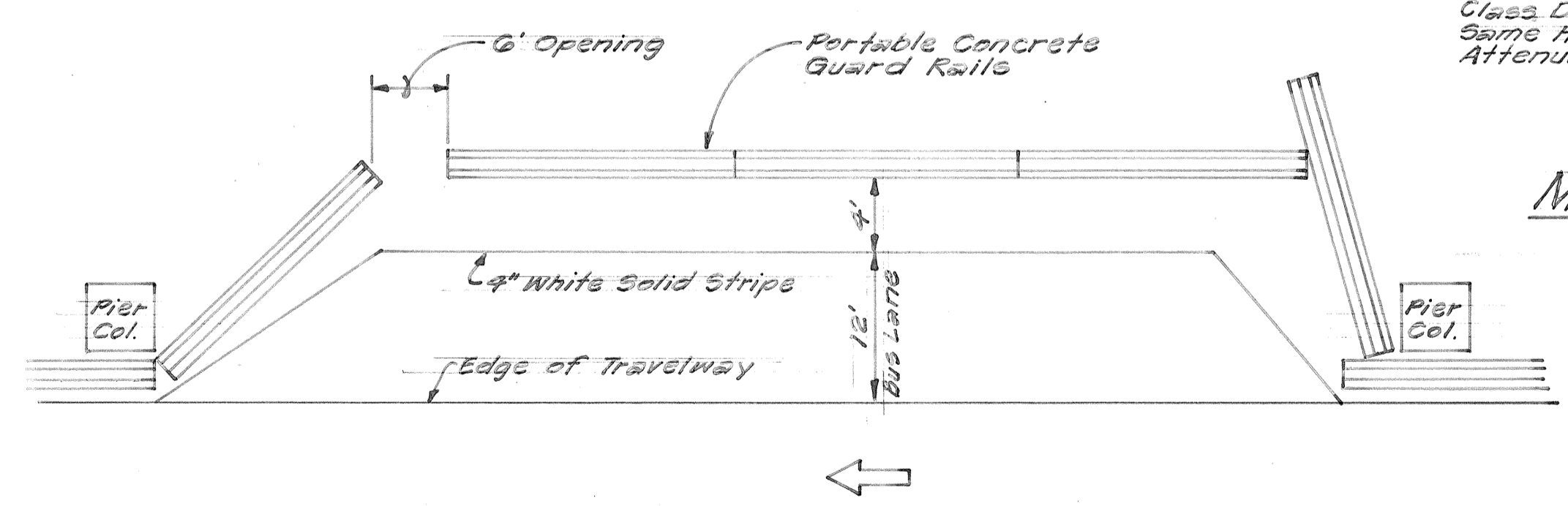
**SKETCH D**  
Not to Scale



**SKETCH A**  
Not to Scale

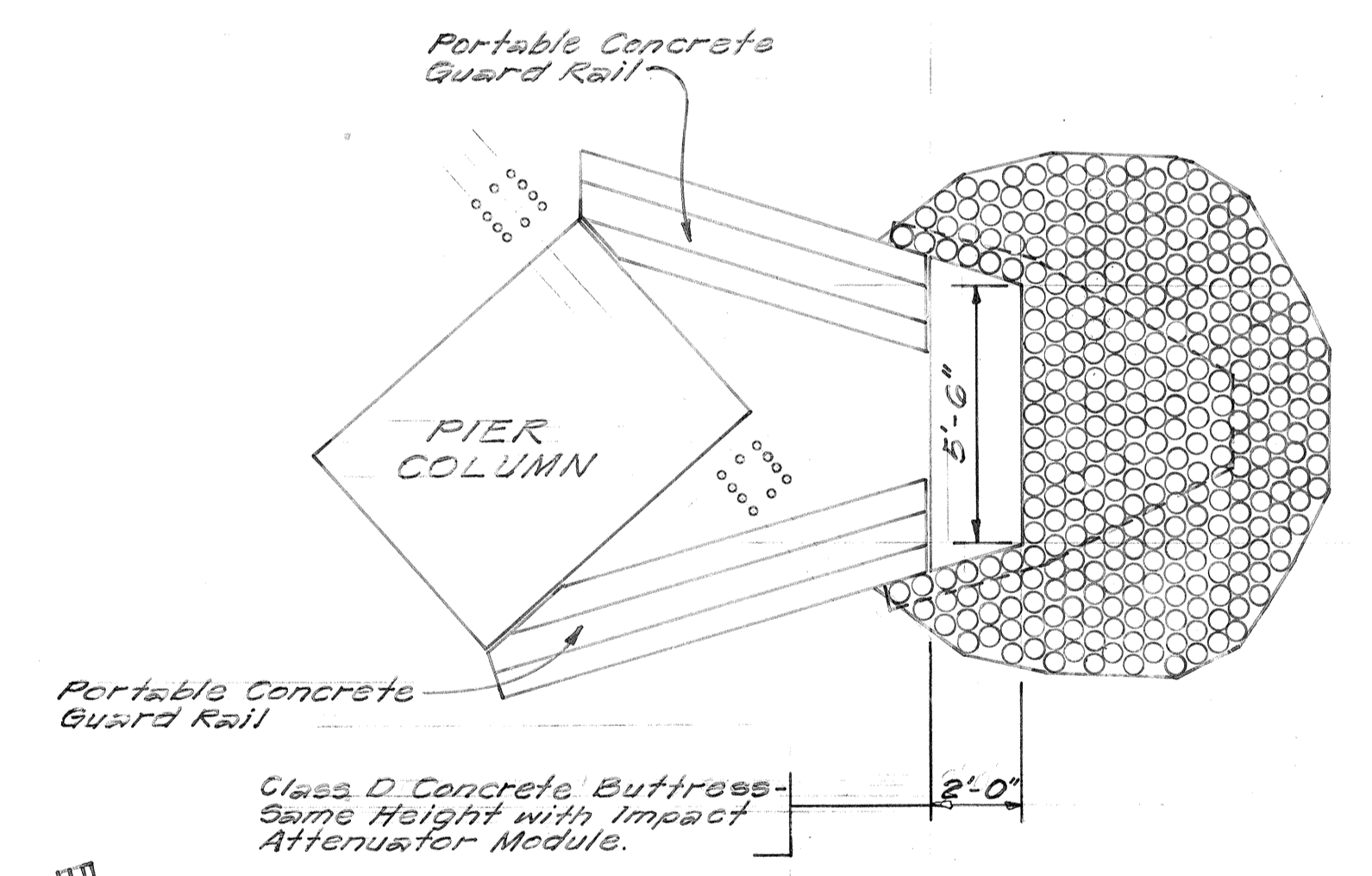
Portable Concrete Guard Rail  
Type "C" Pavement Markers (Space 10' Apart)

**SKETCH B**



**TYPICAL BUS BAY DETAIL BETWEEN BRIDGE COLUMNS**

**SKETCH C**  
Not to Scale



**MODIFIED IMPACT ATTENUATOR**  
Not to Scale

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

AIRPORT INTERCHANGE  
FAI. PROJ. NO. I-HI-1(121)-16

Not to Scale

SHEET NO. OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(121)16	1975	39	207

GENERAL NOTES

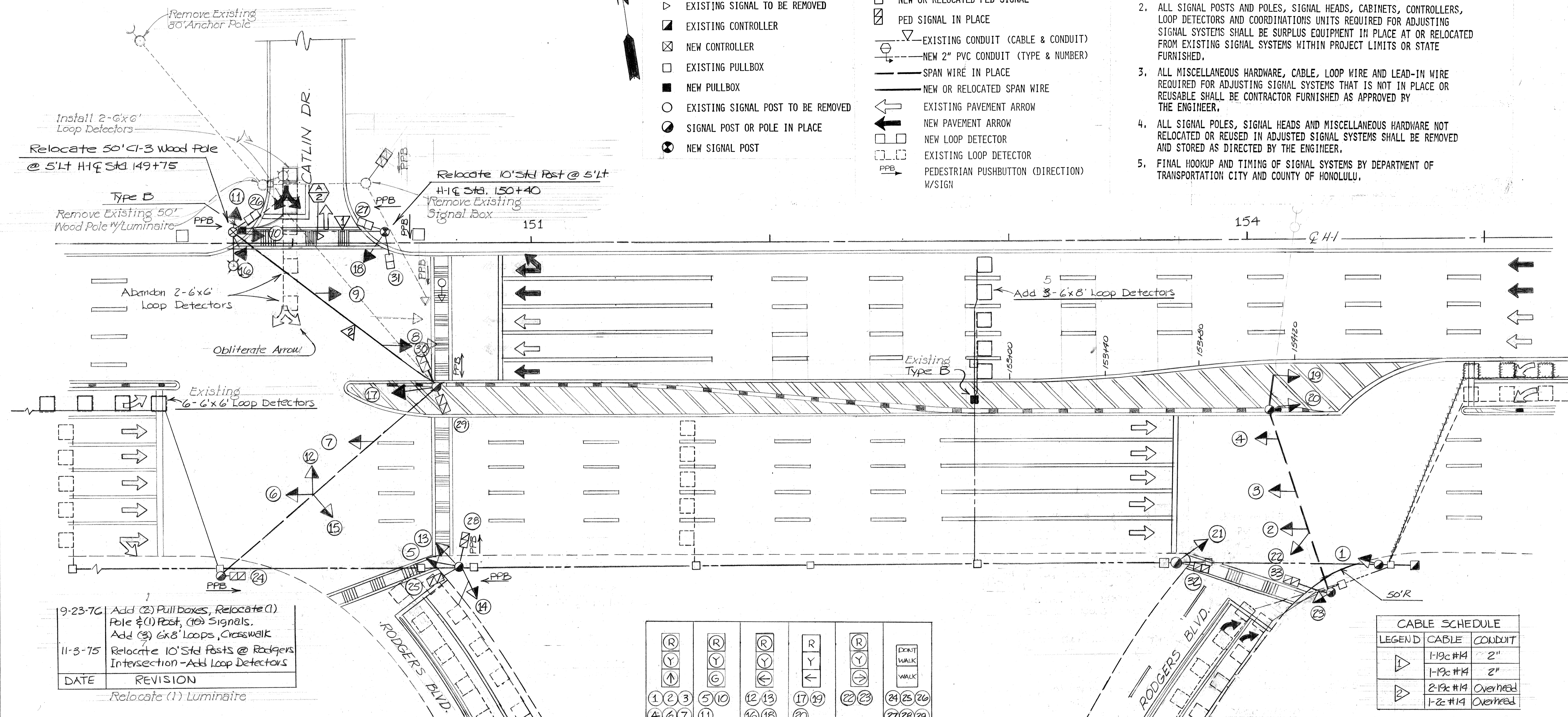
1. ALL SIGNAL POSTS AND POLES, SIGNAL HEADS AND SIGNAL HARDWARE AT SIGNALIZED INTERSECTIONS WITHIN PROJECT LIMITS ARE THE PROPERTY OF THE STATE OF HAWAII.
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5. FINAL HOOKUP AND TIMING OF SIGNAL SYSTEMS BY DEPARTMENT OF TRANSPORTATION CITY AND COUNTY OF HONOLULU.

LEGEND

- ▶ RELOCATED SIGNAL FACE
- ▼ SIGNAL FACE IN PLACE
- ▽ EXISTING SIGNAL TO BE REMOVED
- ▣ EXISTING CONTROLLER
- ⊠ NEW CONTROLLER
- EXISTING PULLBOX
- NEW PULLBOX
- EXISTING SIGNAL POST TO BE REMOVED
- SIGNAL POST OR POLE IN PLACE
- ⊙ NEW SIGNAL POST

LUMINAIRE

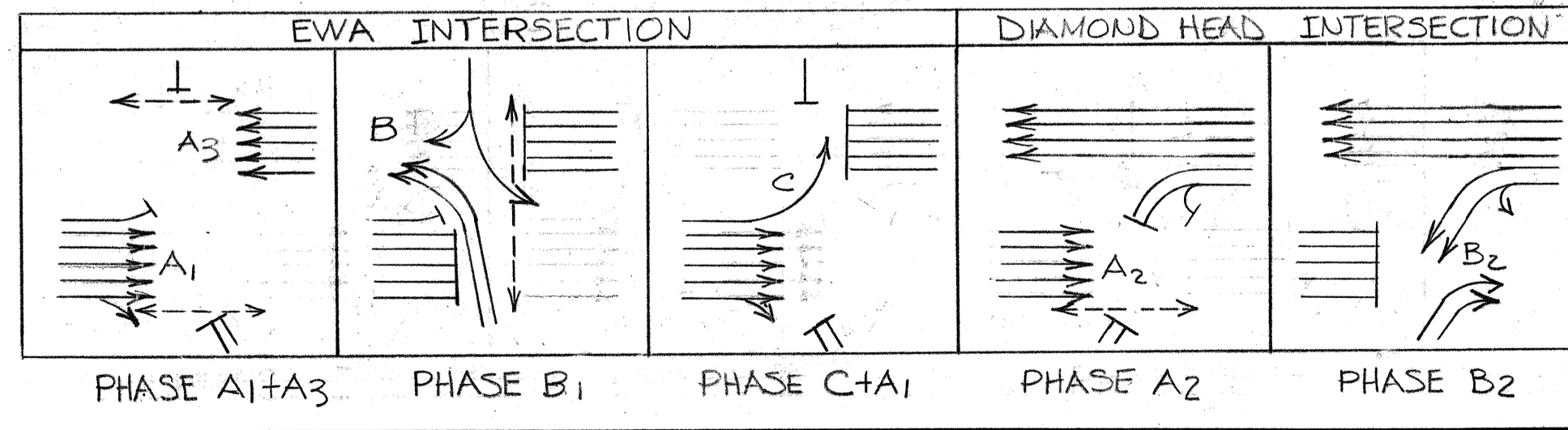
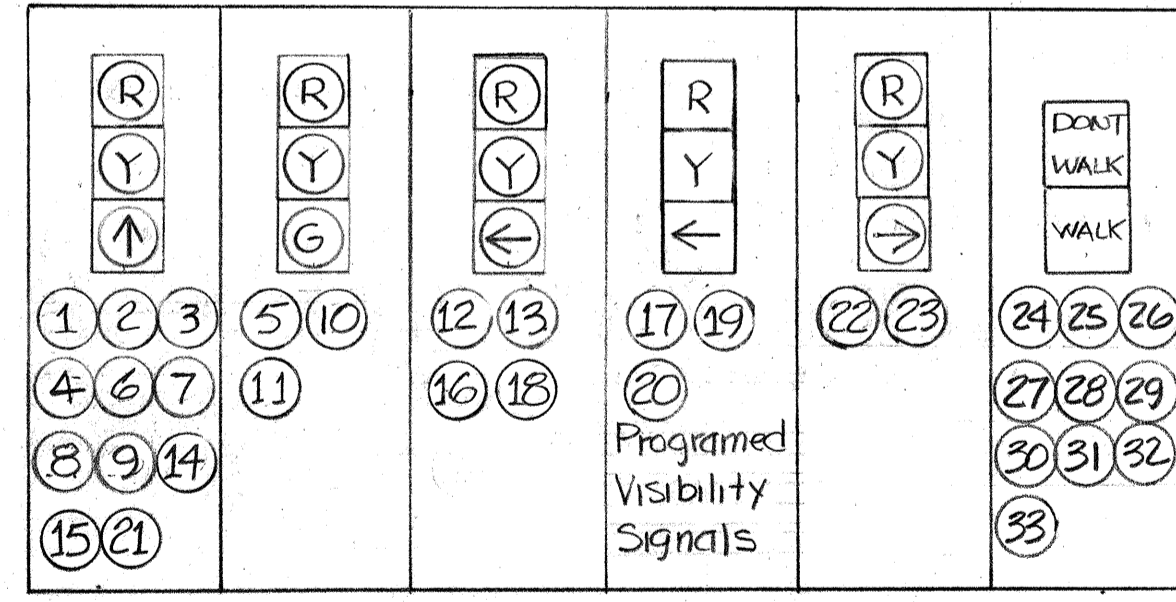
- ⊗ NEW OR RELOCATED SIGNAL POLE WITH GUY WIRE
- NEW OR RELOCATED PED SIGNAL
- ▣ PED SIGNAL IN PLACE
- △— EXISTING CONDUIT (CABLE & CONDUIT)
- NEW 2" PVC CONDUIT (TYPE & NUMBER)
- — — SPAN WIRE IN PLACE
- — — NEW OR RELOCATED SPAN WIRE
- ← EXISTING PAVEMENT ARROW
- NEW PAVEMENT ARROW
- NEW LOOP DETECTOR
- ▣ EXISTING LOOP DETECTOR
- PPB → PEDESTRIAN PUSHBUTTON (DIRECTION) W/SIGN



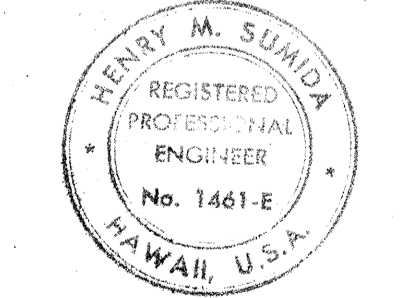
DATE	REVISION
9-23-76	Add (2) Pullboxes, Relocate (1) Pole & (1) Post, (10) Signals. Add (3) 6x8' Loops, Crosswalk
11-3-75	Relocate 10' Std Posts @ Rodgers Intersection - Add Loop Detectors

LEGEND	CABLE	CONDUIT
1	1-19c #14	2"
2	2-19c #14	Overhead
	1-2c #14	Overhead

SIGNAL	PHASE							
	A1	A3	B1	C	A1+A3	C+A1	A2	B2
1, 2, 3, 4							↑	R
5, 6, 7	↑/G	R	R	R	↑/G	↑/G		
8, 9, 10	R	↑/G	R	R	↑/G	R		
11, 12, 13, 14, 15, 16	R	R	↑/G←	R	R	R		
17, 18	R	R	R	←	R	←		
19, 20, 21, 22, 23							R	←/↑
24, 25, 26, 27	DW	W/FDW	DW	DW	W/FDW	DW		
28, 29, 30, 31	DW	DW	W/FDW	DW	DW	DW		
32, 33							W/FDW	DW



SURVEY PLOTTED BY: \_\_\_\_\_  
 PLAN DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 QUANTITIES BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 ORIGINAL PLAN NO. \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 No. \_\_\_\_\_



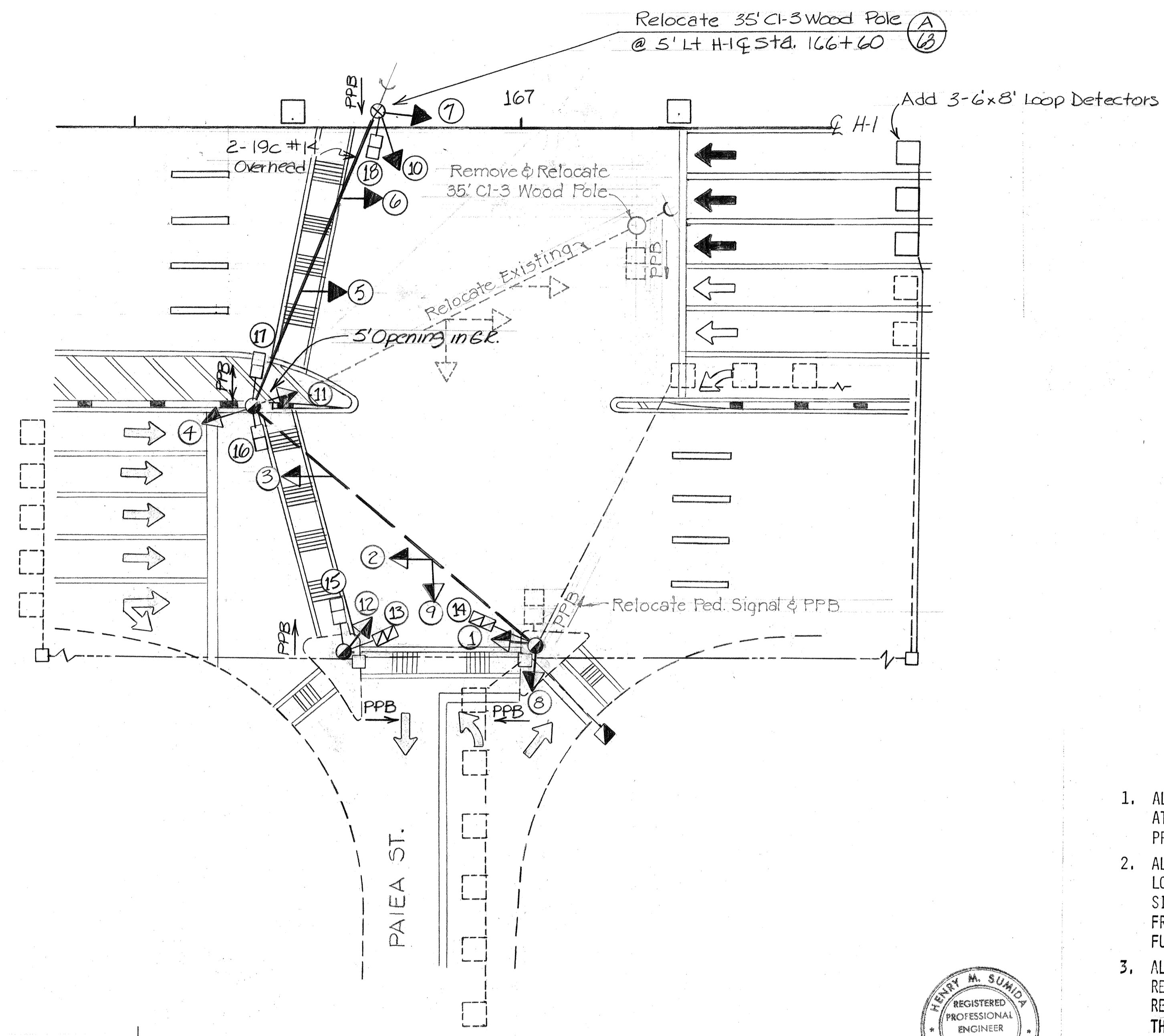
**STATE OF HAWAII**  
**DEPARTMENT OF TRANSPORTATION**  
**HIGHWAYS DIVISION**  
**DETOUR TRAFFIC SIGNALS**  
**CONSTRUCTION PHASE III**  
**RODGERS BOULEVARD**  
 AIRPORT INTERCHANGE  
 FA1 PROJ NO I-HI-1(121)16  
 SCALE: 1"=20' DATE: MAY 1, 1975  
**SHEET No. 1 OF 6 SHEETS**

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(121)16	1975	40	207

ADDITIONAL WORK (excluding crosswalk)  
UNDER THIS ORDER FOR CONTRACT ITEM  
NO. 646.15.

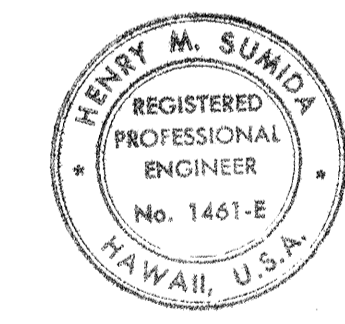
LEGEND

- ▶ RELOCATED SIGNAL FACE
- ▶ SIGNAL FACE IN PLACE
- ▷ EXISTING SIGNAL TO BE REMOVED
- ◻ EXISTING CONTROLLER
- ⊗ NEW CONTROLLER
- ◻ EXISTING PULLBOX
- NEW PULLBOX
- EXISTING SIGNAL POST TO BE REMOVED
- SIGNAL POST OR POLE IN PLACE
- ⊗ NEW SIGNAL POST
- ⊗ NEW OR RELOCATED SIGNAL POLE WITH GUY WIRE
- ◻ NEW OR RELOCATED PED SIGNAL
- ◻ PED SIGNAL IN PLACE
- ▽ EXISTING CONDUIT (CABLE & CONDUIT)
- NEW 2" PVC CONDUIT (TYPE & NUMBER)
- SPAN WIRE IN PLACE
- NEW OR RELOCATED SPAN WIRE
- ← EXISTING PAVEMENT ARROW
- ← NEW PAVEMENT ARROW
- ◻ NEW LOOP DETECTOR
- ◻ EXISTING LOOP DETECTOR
- PPB → PEDESTRIAN PUSHBUTTON (DIRECTION) W/SIG.



GENERAL NOTES

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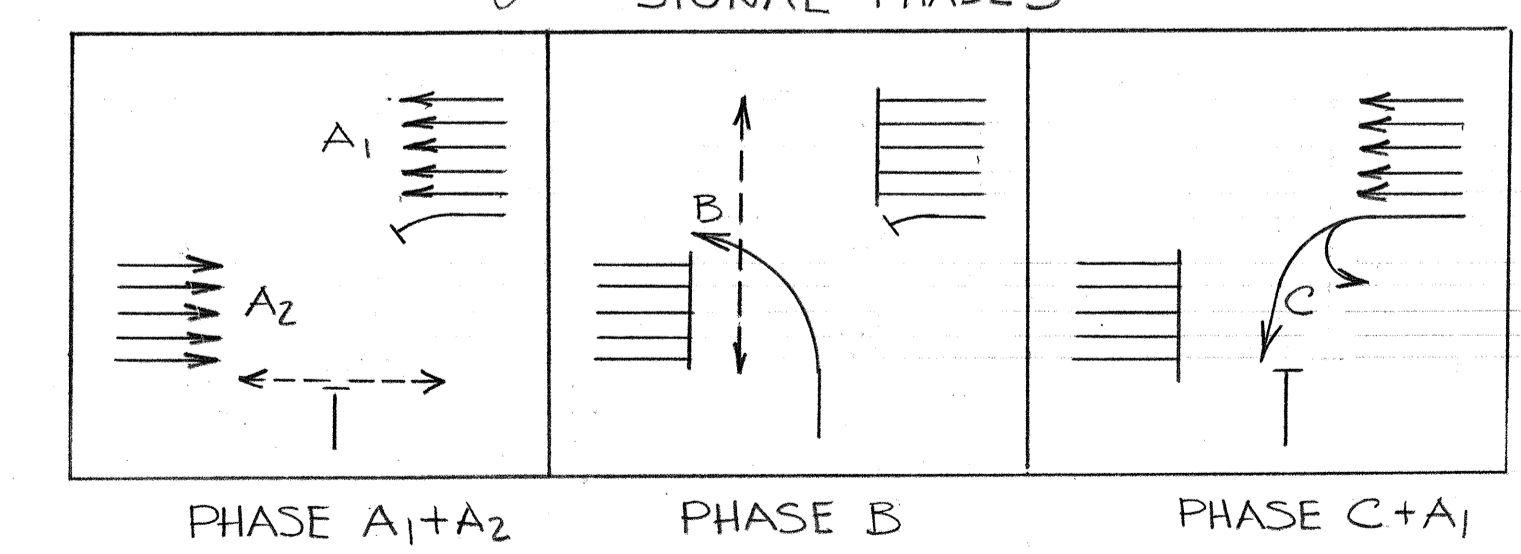
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
*Henry M. Sumida*

9-23-76	Relocate (1) Pole, (8) Signals & (5) PPB, Crosswalk
Date	Revision

SIGNAL INDICATIONS				
 2 3	 10 12	 1 6	 11	 13 14
 4 5	 9	 15 16	 17 18	

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

SIGNAL PHASES



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

DETOUR TRAFFIC SIGNALS  
CONSTRUCTION PHASE III  
PAIEA STREET

AIRPORT INTERCHANGE  
F.A.I. PROJ. NO. I-H-1(121)16

SCALE: 1"=20' DATE: MAY 1, 1975

SHEET No. 2 OF 6 SHEETS

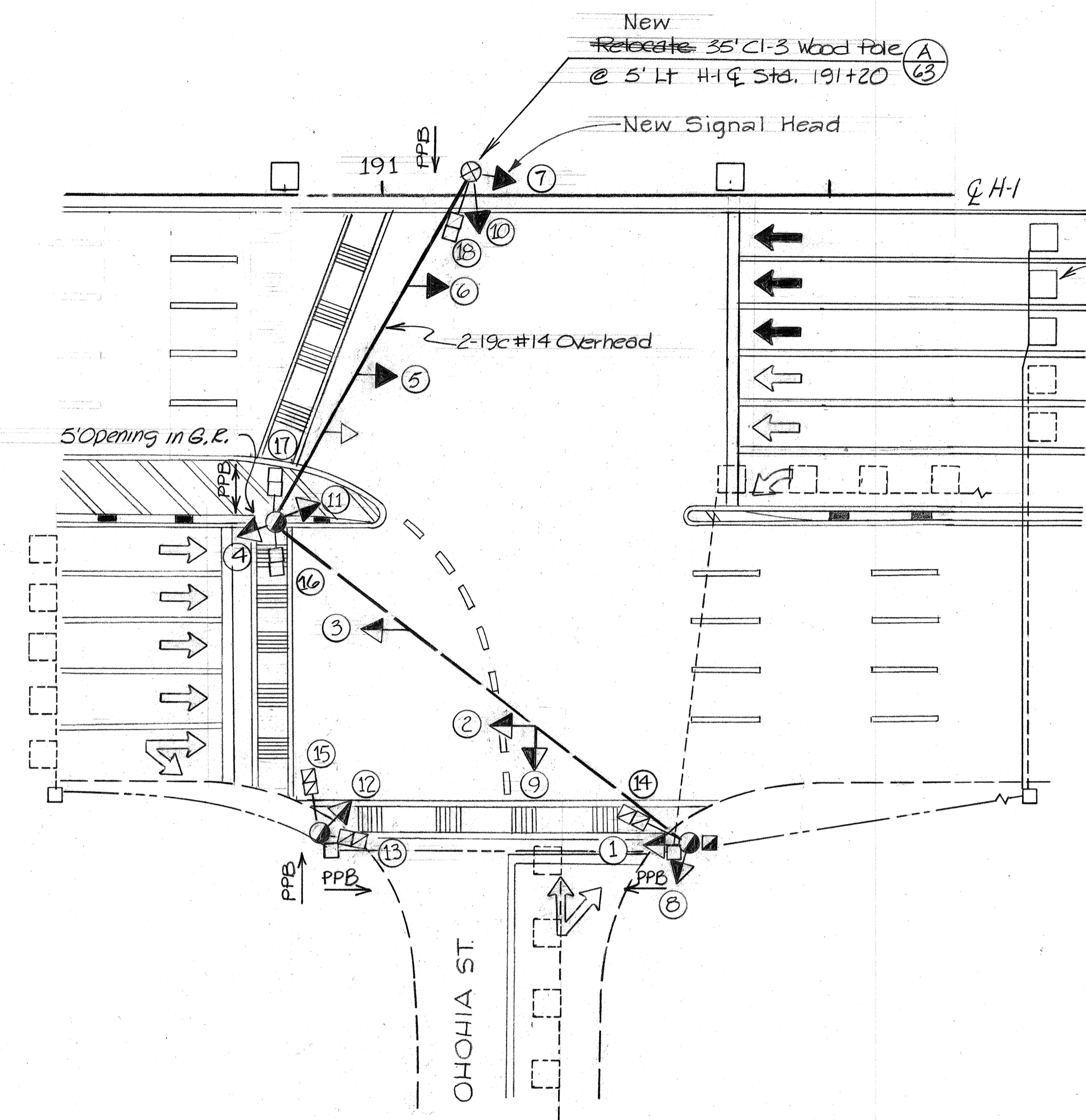
DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
ORIGINAL PLAN: \_\_\_\_\_  
NOTE BOOK: \_\_\_\_\_  
No. \_\_\_\_\_



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(12)16	1975	42	207

LEGEND

- ▶ RELOCATED SIGNAL FACE
- ▷ SIGNAL FACE IN PLACE
- ▷ EXISTING SIGNAL TO BE REMOVED
- ◻ EXISTING CONTROLLER
- ◻ NEW CONTROLLER
- ◻ EXISTING PULLBOX
- ◼ NEW PULLBOX
- EXISTING SIGNAL POST TO BE REMOVED
- SIGNAL POST OR POLE IN PLACE
- ⊗ NEW SIGNAL POST
- ⊗ NEW OR RELOCATED SIGNAL POLE WITH GUY WIRE
- ◻ NEW OR RELOCATED PED SIGNAL
- ◻ PED SIGNAL IN PLACE
- EXISTING CONDUIT (CABLE & CONDUIT)
- - - NEW 2" PVC CONDUIT (TYPE & NUMBER)
- SPAN WIRE IN PLACE
- NEW OR RELOCATED SPAN WIRE
- ↔ EXISTING PAVEMENT ARROW
- ↔ NEW PAVEMENT ARROW
- ◻ NEW LOOP DETECTOR
- ◻ EXISTING LOOP DETECTOR
- PPB → PEDESTRIAN PUSHBUTTON (DIRECTION) W/SIGN

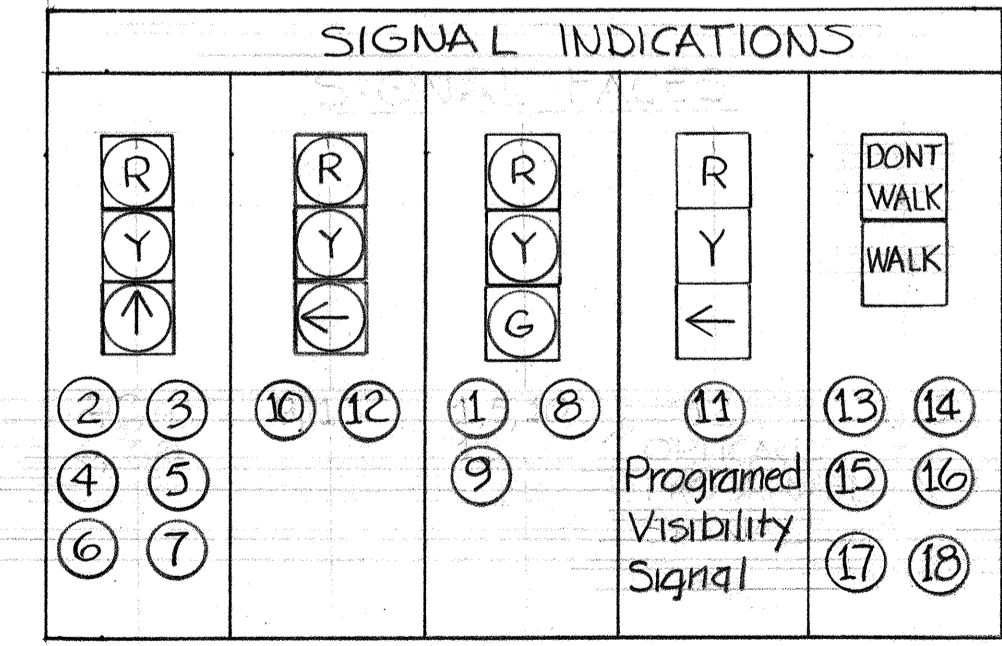


GENERAL NOTES

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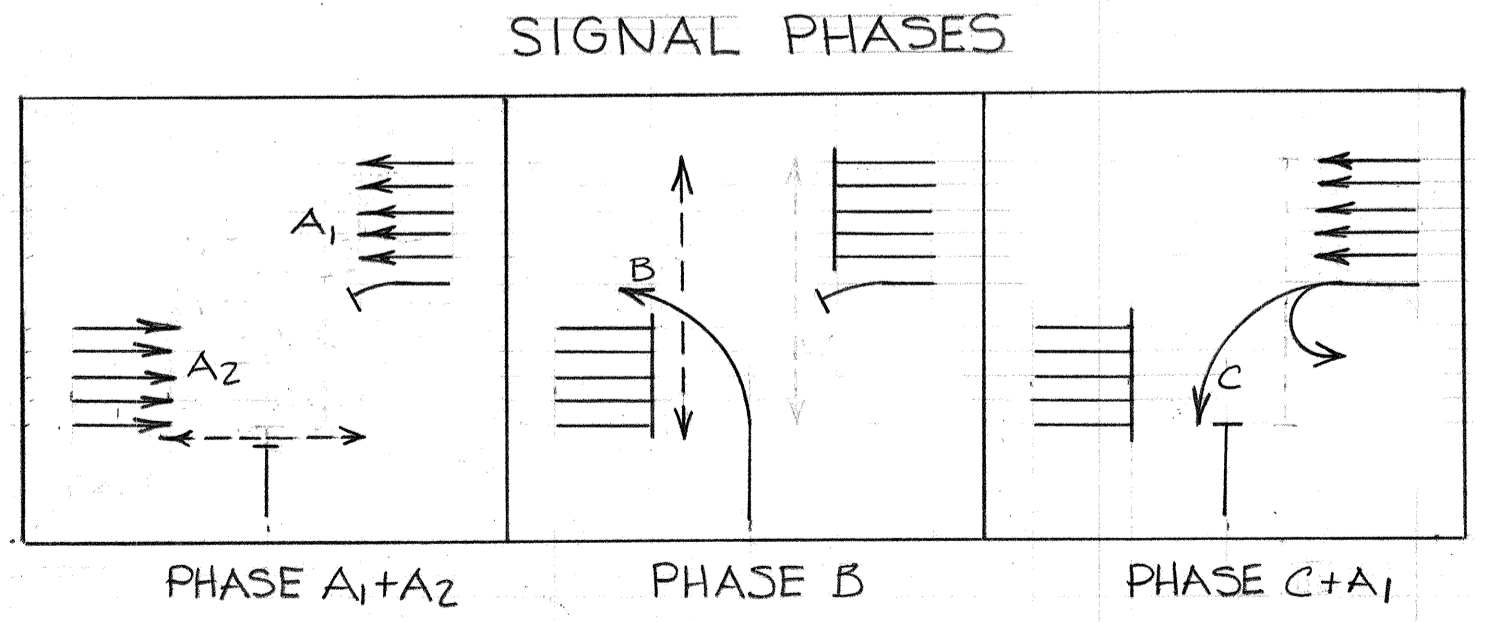
9-23-76	Relocate (1) Pole (4) Signals & (5) PPB
Date	Revision

DATE: \_\_\_\_\_  
 SURVEY PLOTTED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 ORIGINAL PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 QUANTITIES BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_



SIGNAL PHASES

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



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 Henry M. Sumida

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

DETOUR TRAFFIC SIGNALS  
 CONSTRUCTION PHASE III  
 OHOHIA STREET  
 AIRPORT INTERCHANGE  
 FAI, PROJ NO I-HI-1(12)16

SCALE: 1"=20'  
 DATE: MAY 1, 1975

SHEET No. 4 OF 6 SHEETS

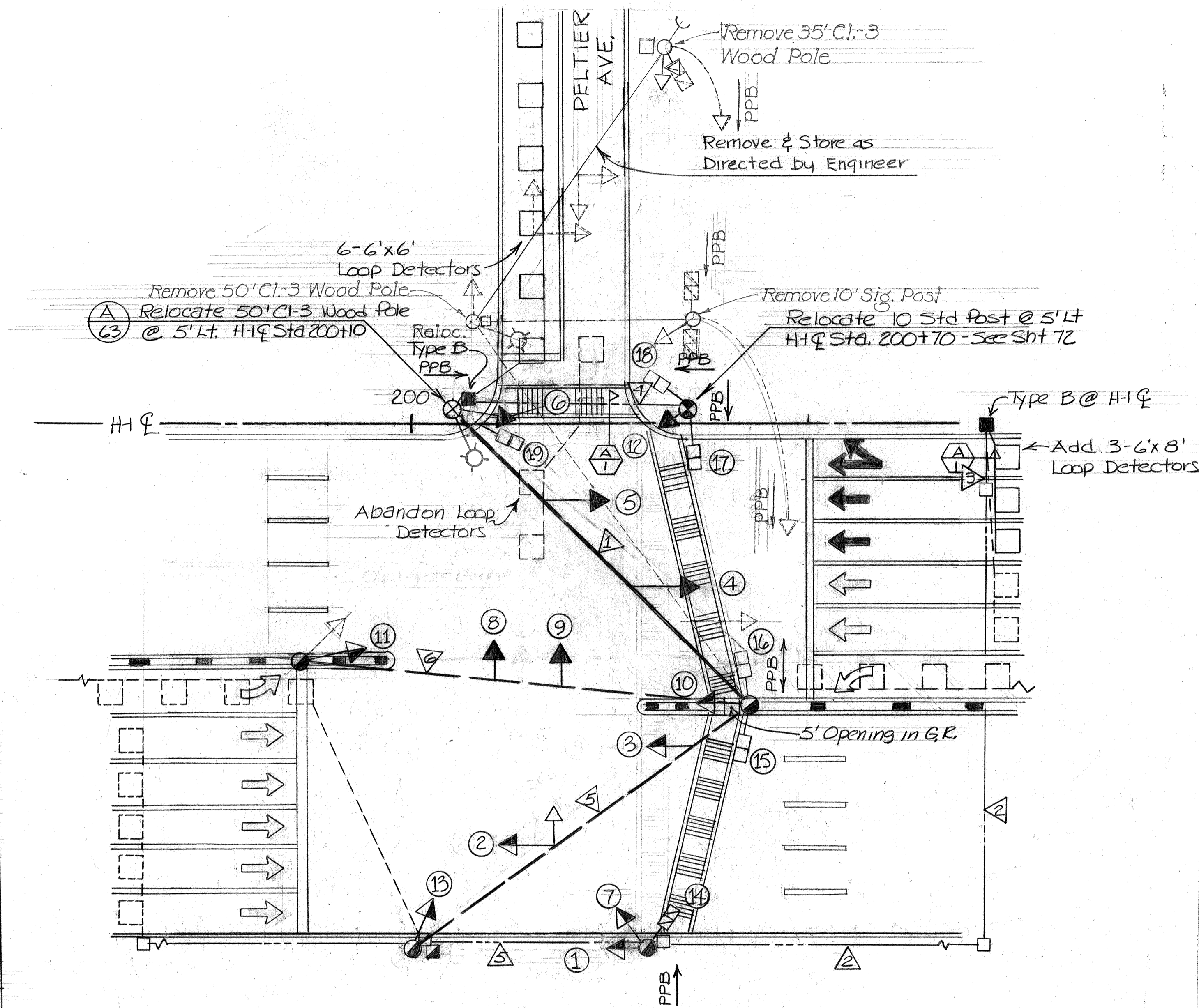
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(12)16	1975	43	207

LEGEND

- ▶ RELOCATED SIGNAL FACE
- ▼ SIGNAL FACE IN PLACE
- ▷ EXISTING SIGNAL TO BE REMOVED
- EXISTING CONTROLLER
- ⊠ NEW CONTROLLER
- EXISTING PULLBOX
- NEW PULLBOX
- EXISTING SIGNAL POST TO BE REMOVED
- SIGNAL POST OR POLE IN PLACE
- ⊙ NEW SIGNAL POST
- ⊗ NEW OR RELOCATED SIGNAL POLE WITH GUY WIRE
- NEW OR RELOCATED PED SIGNAL
- ⊠ PED SIGNAL IN PLACE
- ▽ EXISTING CONDUIT (CABLE & CONDUIT)
- NEW 2" PVC CONDUIT (TYPE & NUMBER)
- SPAN WIRE IN PLACE
- NEW OR RELOCATED SPAN WIRE
- ← EXISTING PAVEMENT ARROW
- NEW PAVEMENT ARROW
- NEW LOOP DETECTOR
- EXISTING LOOP DETECTOR
- PPB PEDESTRIAN PUSHBUTTON (DIRECTION) W/SIGN
- LUMINAIRE

GENERAL NOTES

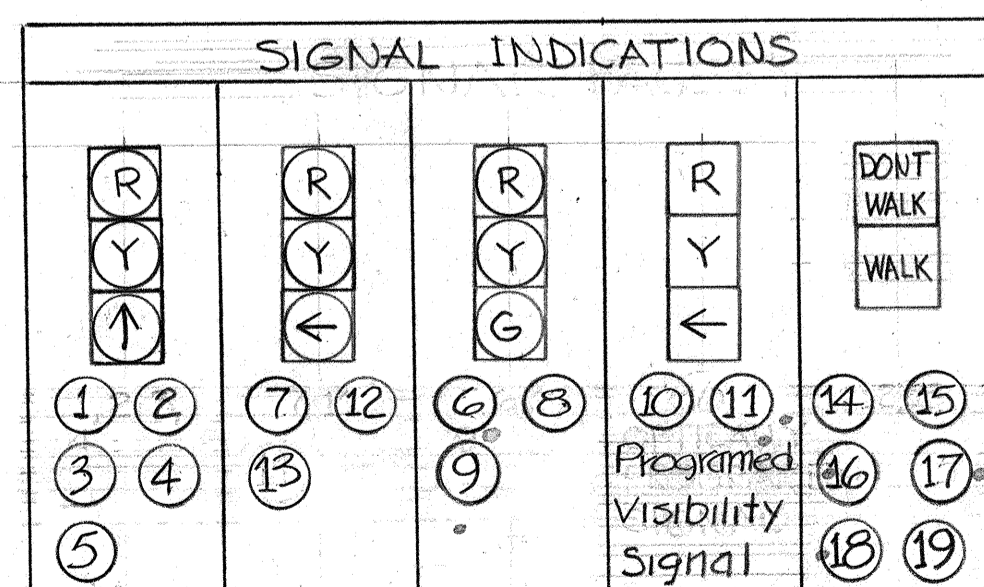
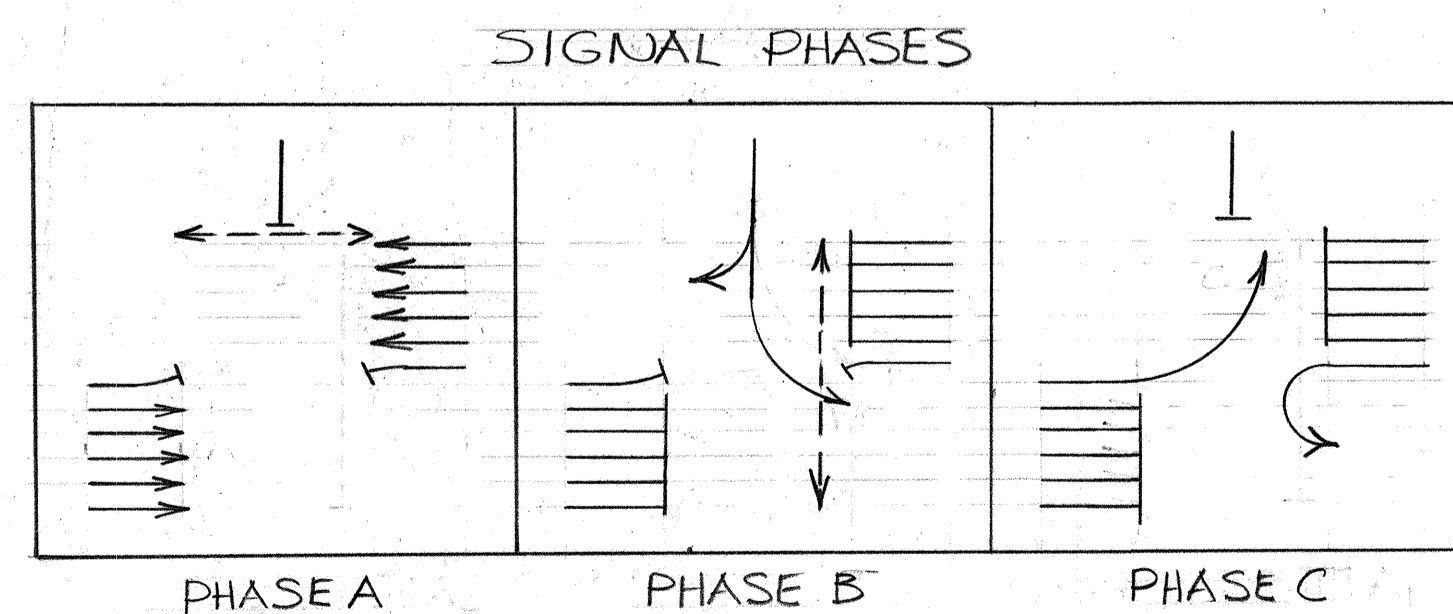
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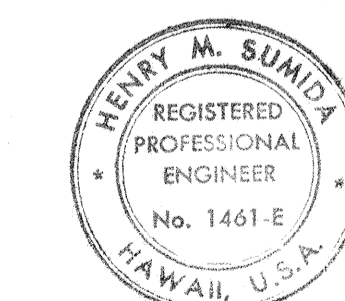
LEGEND	CABLE	CONDUIT
▶	2-19c#14	Overhead
▶	1-2c#14	Overhead
▷	1-2c#14	Existing
▷	1-2c#14	2"
▶	1-19c#14	2"
▶	1-19c#14	2"
▶	2-19c#14	Existing
▶	1-2c#14	Existing
▶	2-19c#14	Existing

Date	Revision
9-23-76	Relocate (1) Luminaire Add (2) Pullboxes, (3) 2" Conduit, Relocate (1) Pole & (1) Post, (4) Signals, (4) PPB, Crosswalk

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



DATE: \_\_\_\_\_  
 SURVEY PLOTTED BY: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 QUANTITIES BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_



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

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

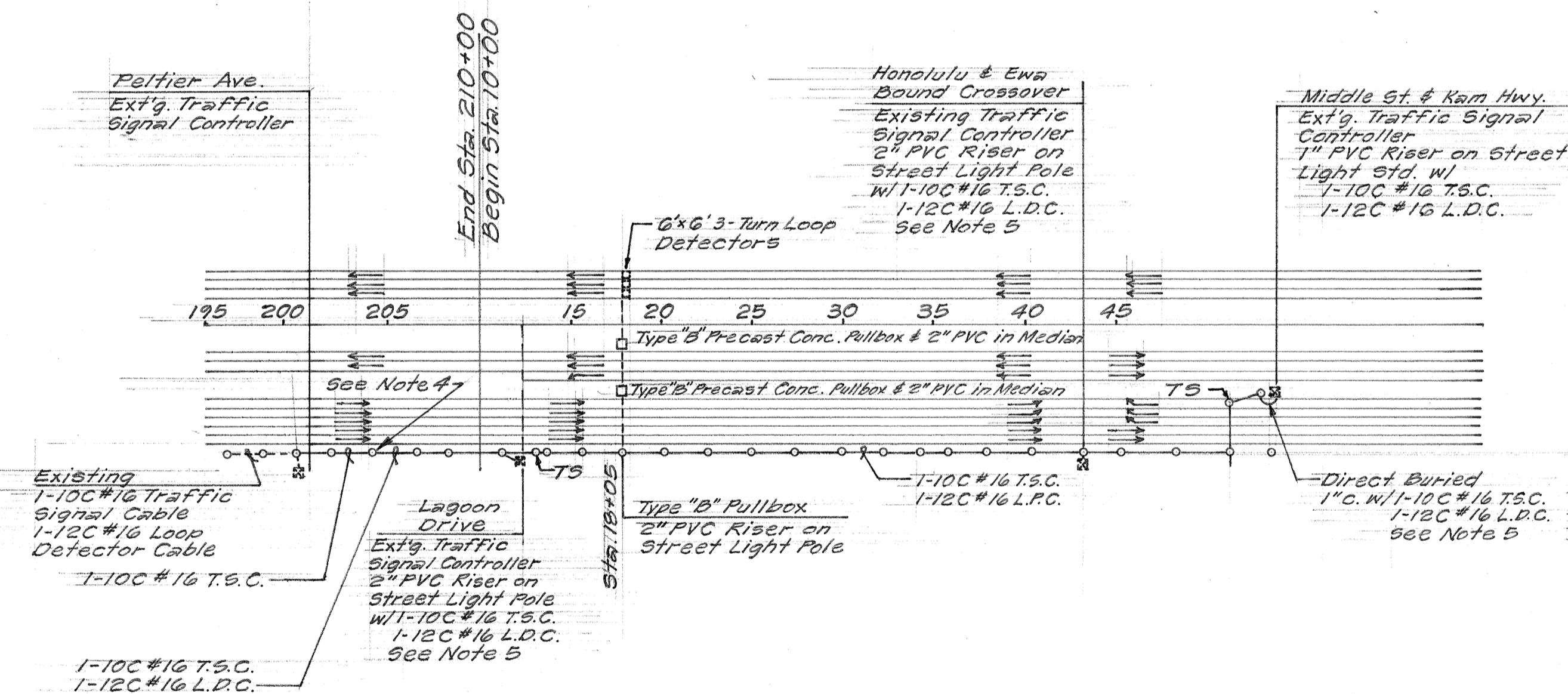
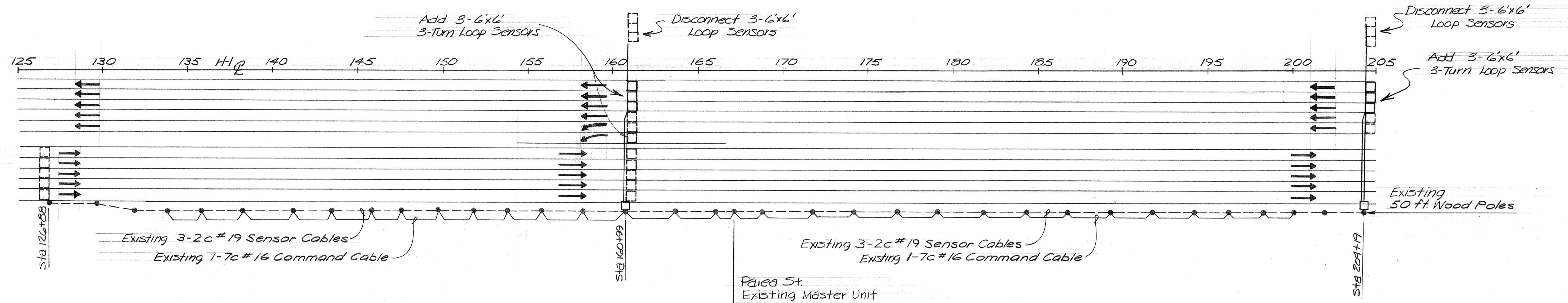
DETOUR TRAFFIC SIGNALS  
 CONSTRUCTION PHASE III  
 PELTIER AVENUE

AIRPORT INTERCHANGE  
 F.A.I. PROJ NO I-HI-1(12)16

SCALE: 1"=20' DATE: MAY 1, 1975

SHEET No. 5 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	111H(121)16	1975	43A	207



SKETCH A  
INTERCONNECT SYSTEM  
Not to Scale

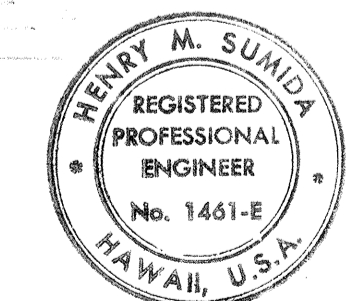
- ELECTRICAL LEGEND**
- Existing Street Light Pole
  - Existing Traffic Signal Pole
  - Existing Street Light Standard
  - Existing Traffic Signal Controller
  - Existing Overhead Interconnect Traffic Signal Cables
  - Overhead Interconnect Traffic Signal Cables
  - Traffic Signal Cable
  - Loop Detector Cable
  - Type "B" Precast Concrete Pullbox

- NOTES**
- Traffic signal and loop detector cables shall be tied together and supported by spiral wrap to appropriate existing messenger cable.
  - Where appropriate messenger cable not existing, Contractor shall install 3/8" Galvanized Steel messenger cable and associated equipment to support traffic signal and loop detector cables.
  - Splice traffic signal cable into existing traffic signal cable and extend overhead as shown.
  - Splice loop detector cable into existing loop detector cable and extend as shown.
  - Extend traffic signal cable and loop detector cable to existing traffic signal controller. Final connection by G & C.

- NOTES:**
- Locate Loop sensors as directed by the Engineer.
  - Loop Sensor Material and Installation as recommended by Master Controller Manufacturer.

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

923-76	Add Sheet - Install (6) Loop Sensors
DATE	REVISION



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*Henry M. Sumida*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**DETOUR TRAFFIC SIGNALS  
MASTER INTERCONNECT SYSTEM**

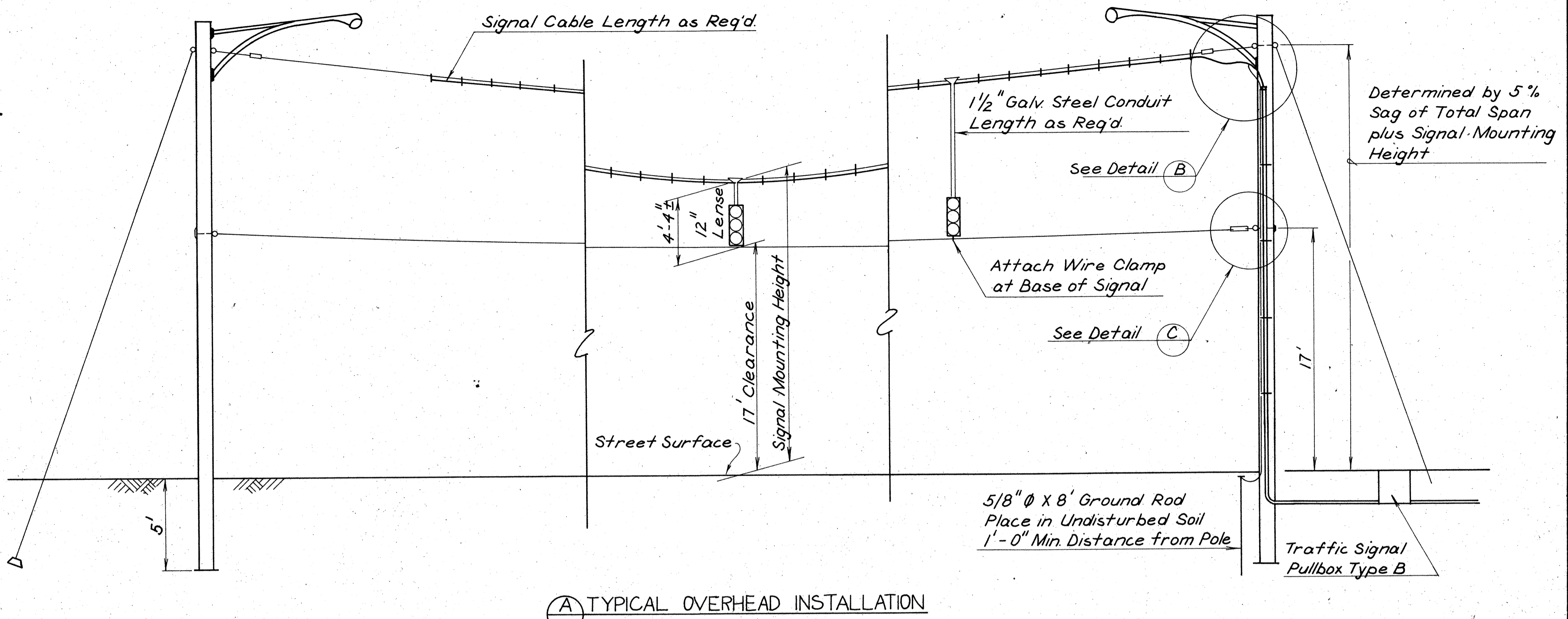
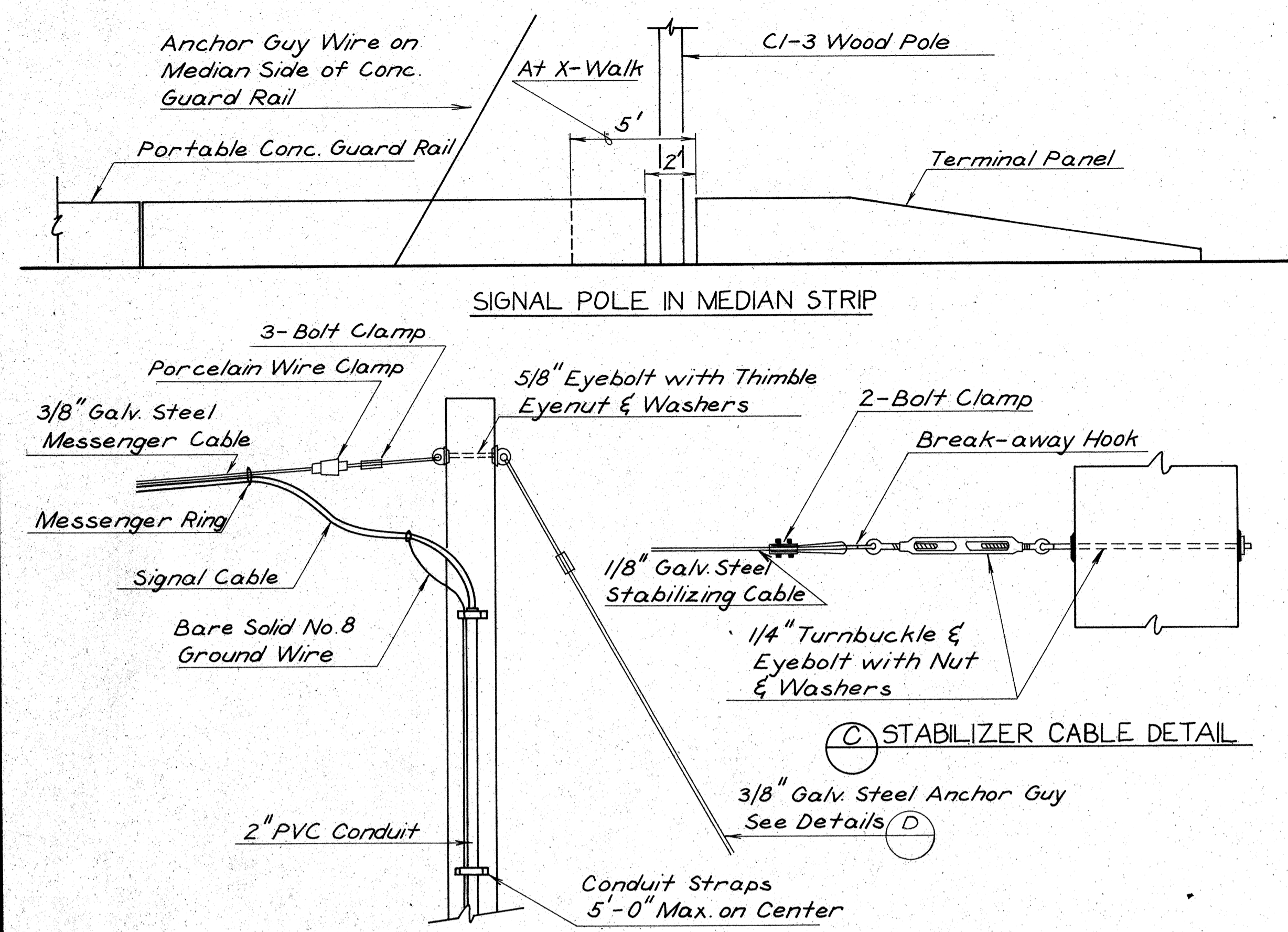
AIRPORT INTERCHANGE  
F.A.I. PROJ. NO. 111H (121) 16

SCALE: NONE      DATE: MAY 1, 1975

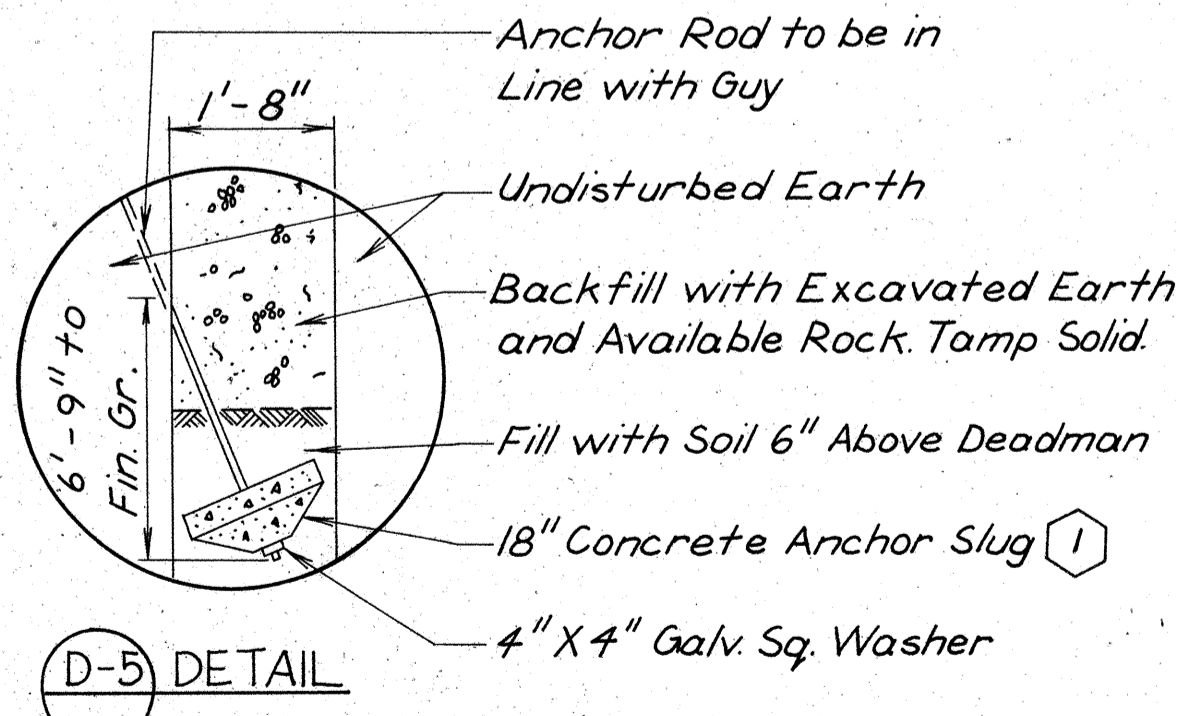
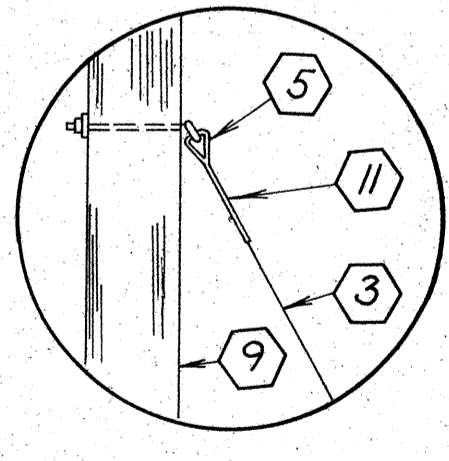
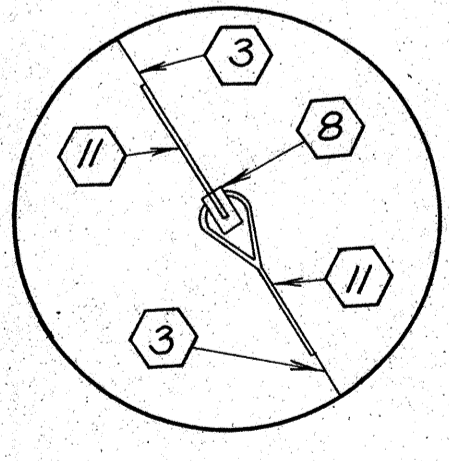
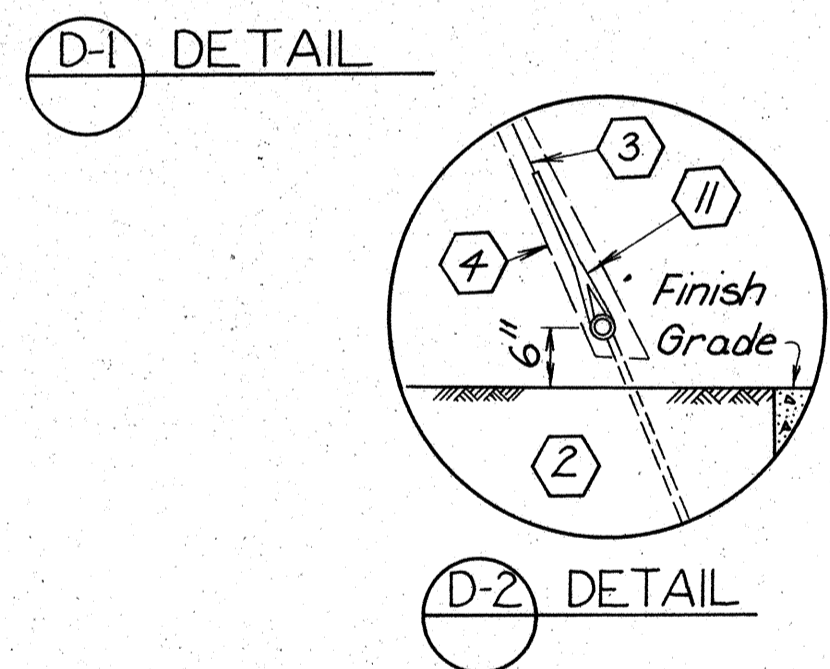
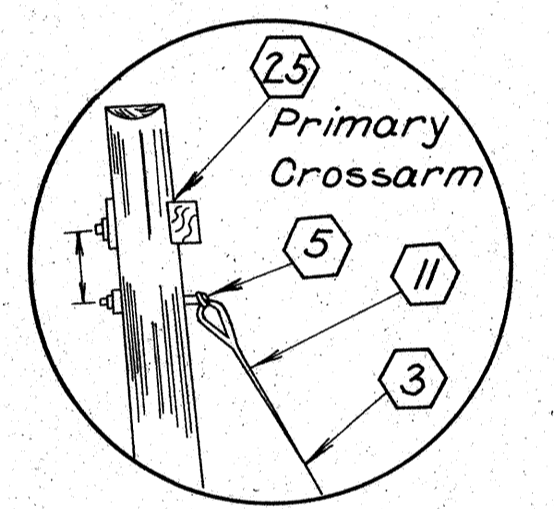
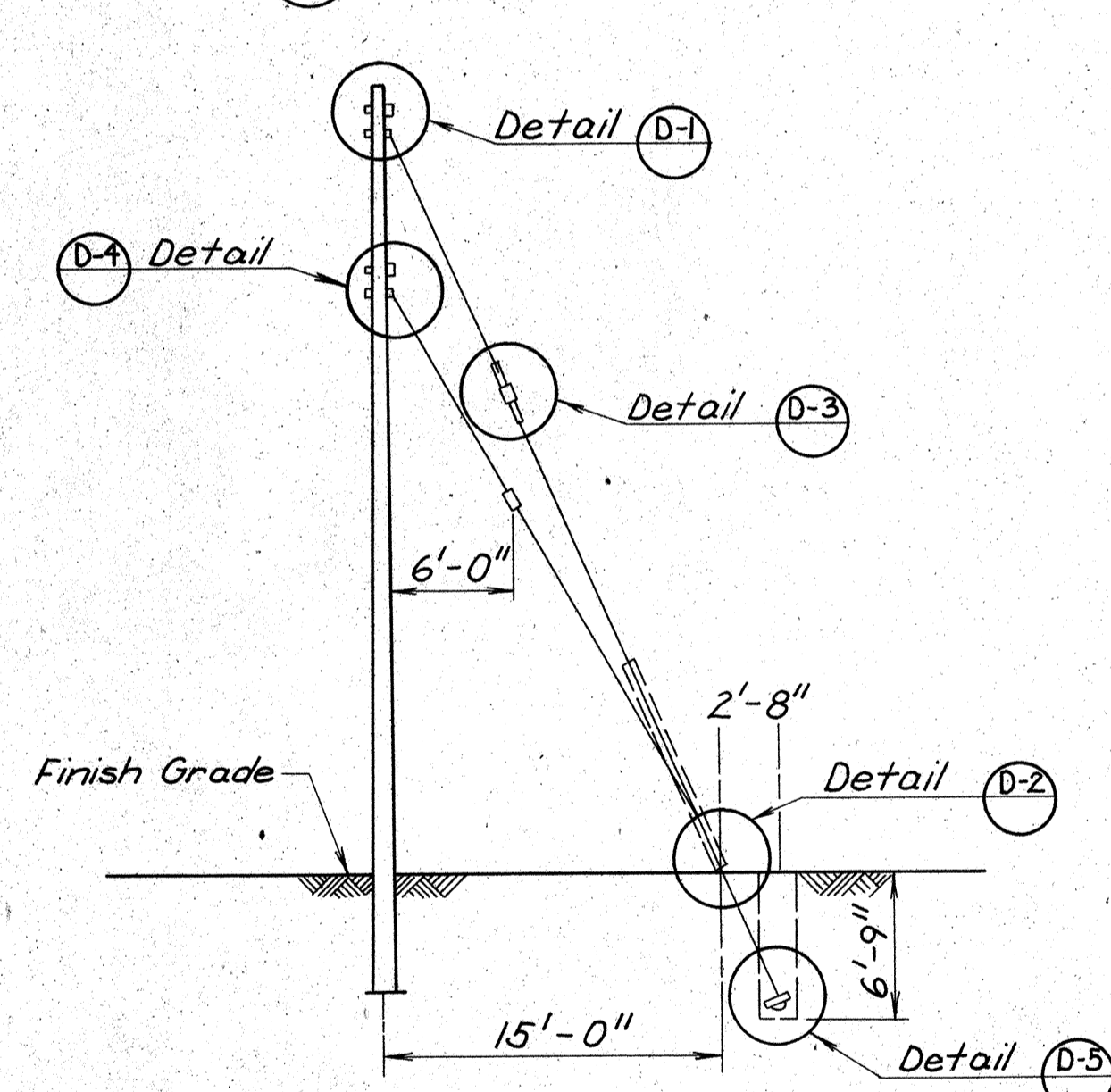
SHEET NO.      OF SHEETS

CO 43A

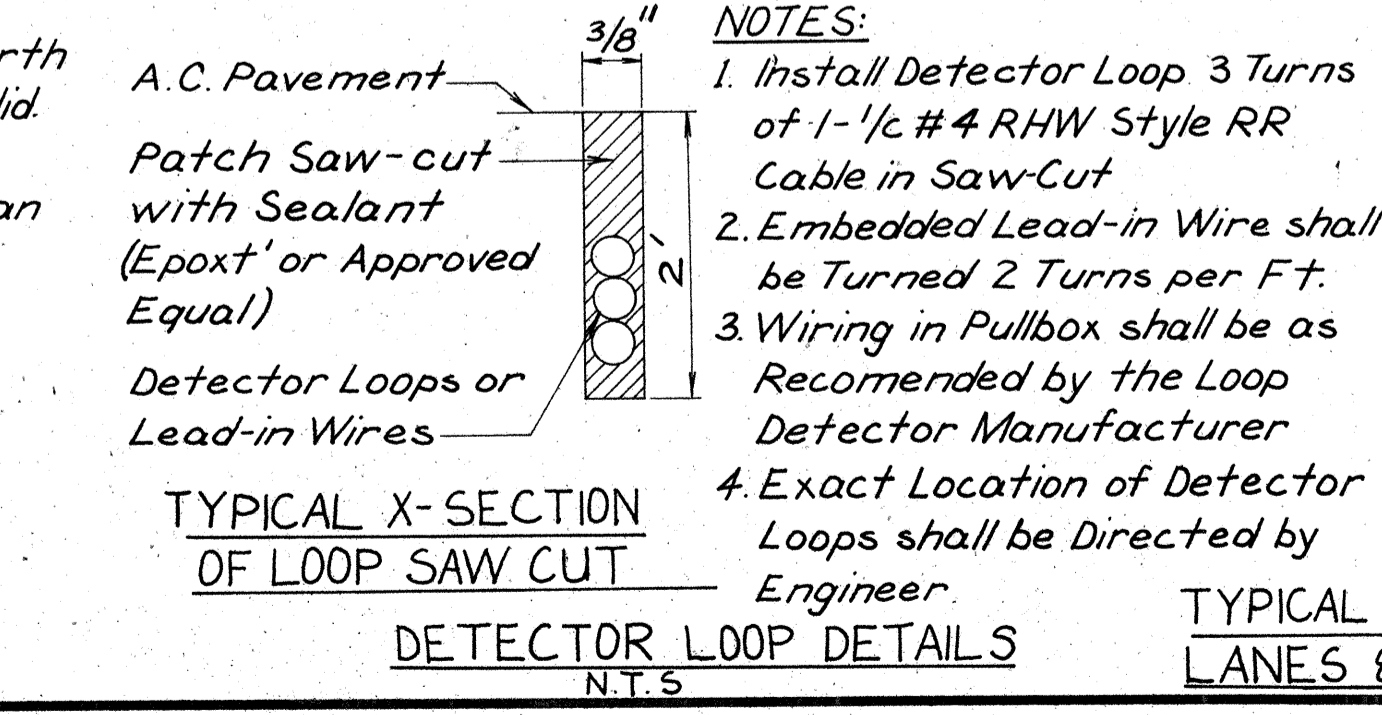
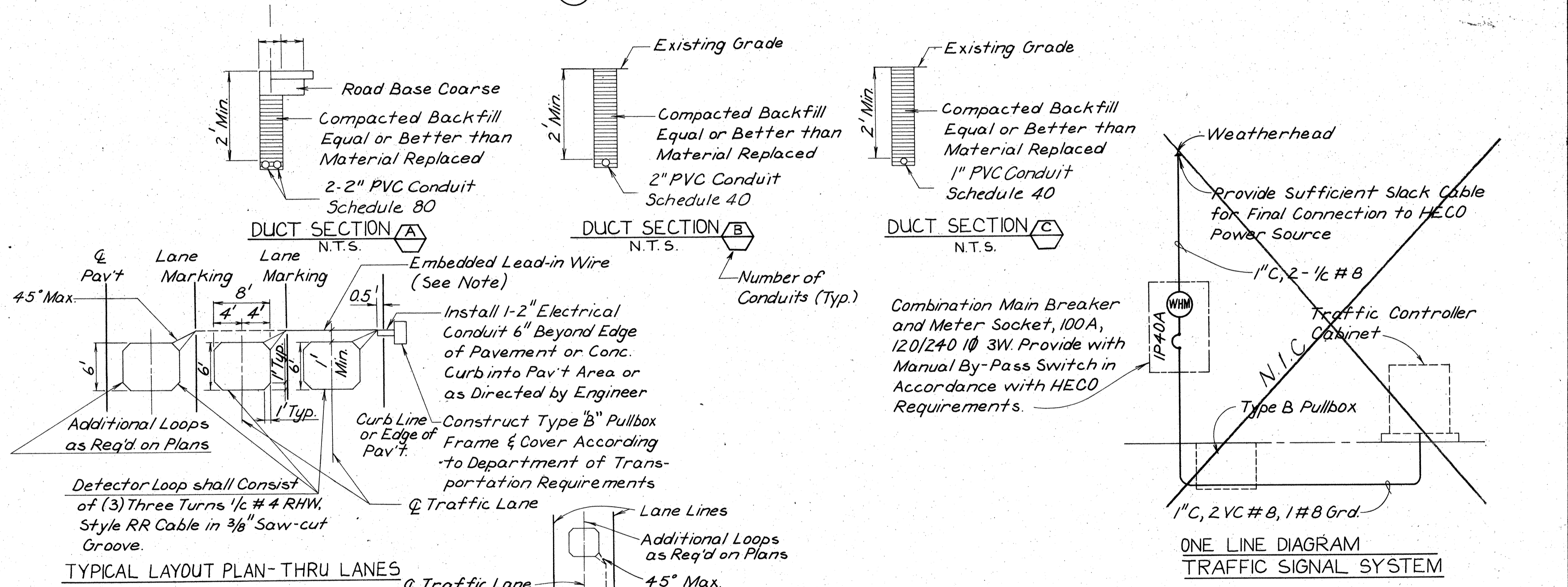
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(121):16	1975	44	207



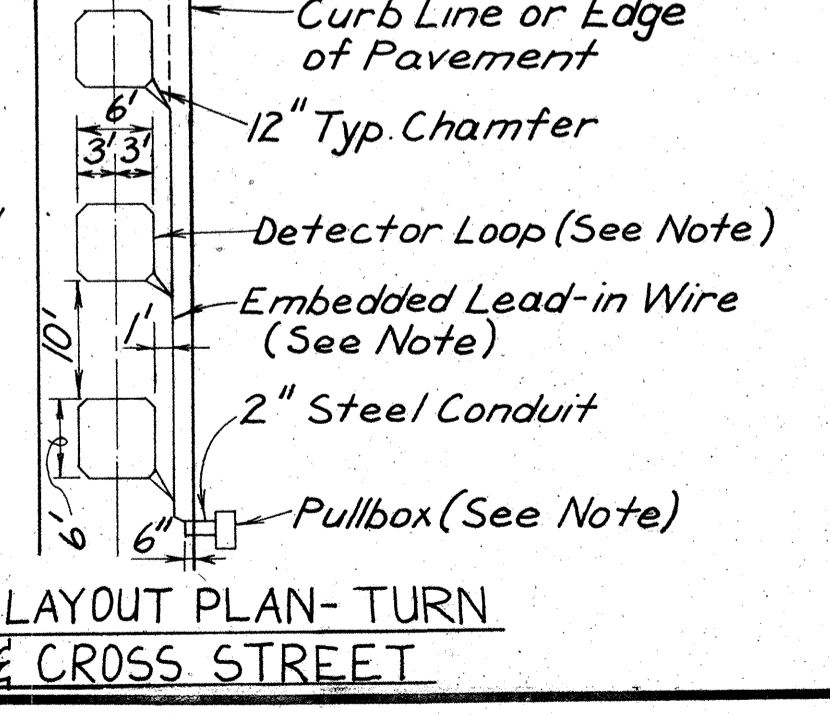
(B) TRAFFIC SIGNAL POLE DETAIL



(D) TYPICAL ANCHOR AND GUYING DETAIL  
No Scale

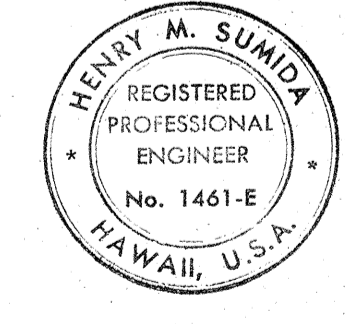


TYPICAL X-SECTION OF LOOP SAW CUT  
DETECTOR LOOP DETAILS  
N.T.S.



TYPICAL LAYOUT PLAN-TURN LANES & CROSS STREET

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



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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

DETOUR TRAFFIC SIGNALS  
DETAILS

AIRPORT INTERCHANGE  
FAI. PROJ. NO. I-HI-1(121):16

SCALE: AS SHOWN DATE: MAY 1, 1975

SHEET No. 6 OF 6 SHEETS