

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(15)0	1974	31	54

TRUE NORTH
Scale: 1"=20'

MILANI MEMORIAL
PARK ROAD

M.L. & STA. 2+00

4" White Edge Stripe

IM3-3 SOUTH
IM-1(2) INTERSTATE HAWAII H-2
IM5-1(L) ←

M3-1 NORTH

M1-6(99) 99

4" White Edge Stripe

4" White Guide Line

4" White Edge Stripe

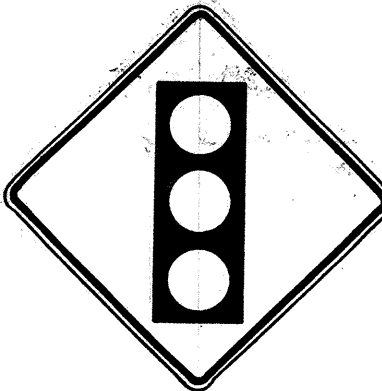
4" White Guide Line

4" White Edge Stripe

Honolulu 4'x10'
LEFT LANE

1st line 13 1/8" U.C., L.C.
2nd line 10" U.C.
White Legend on
Green Background

TRUE NORTH
Scale: 1"=20'



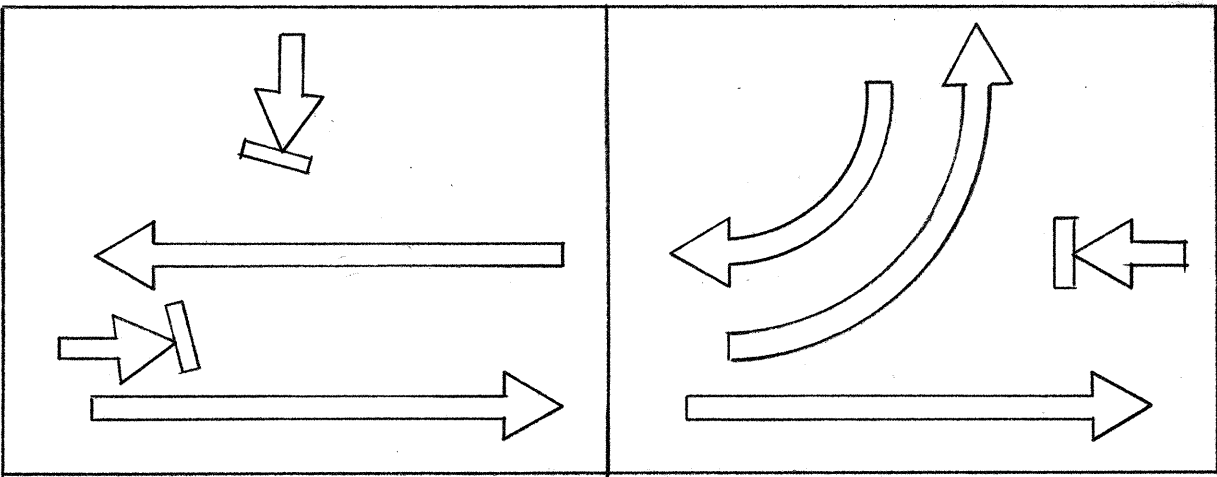
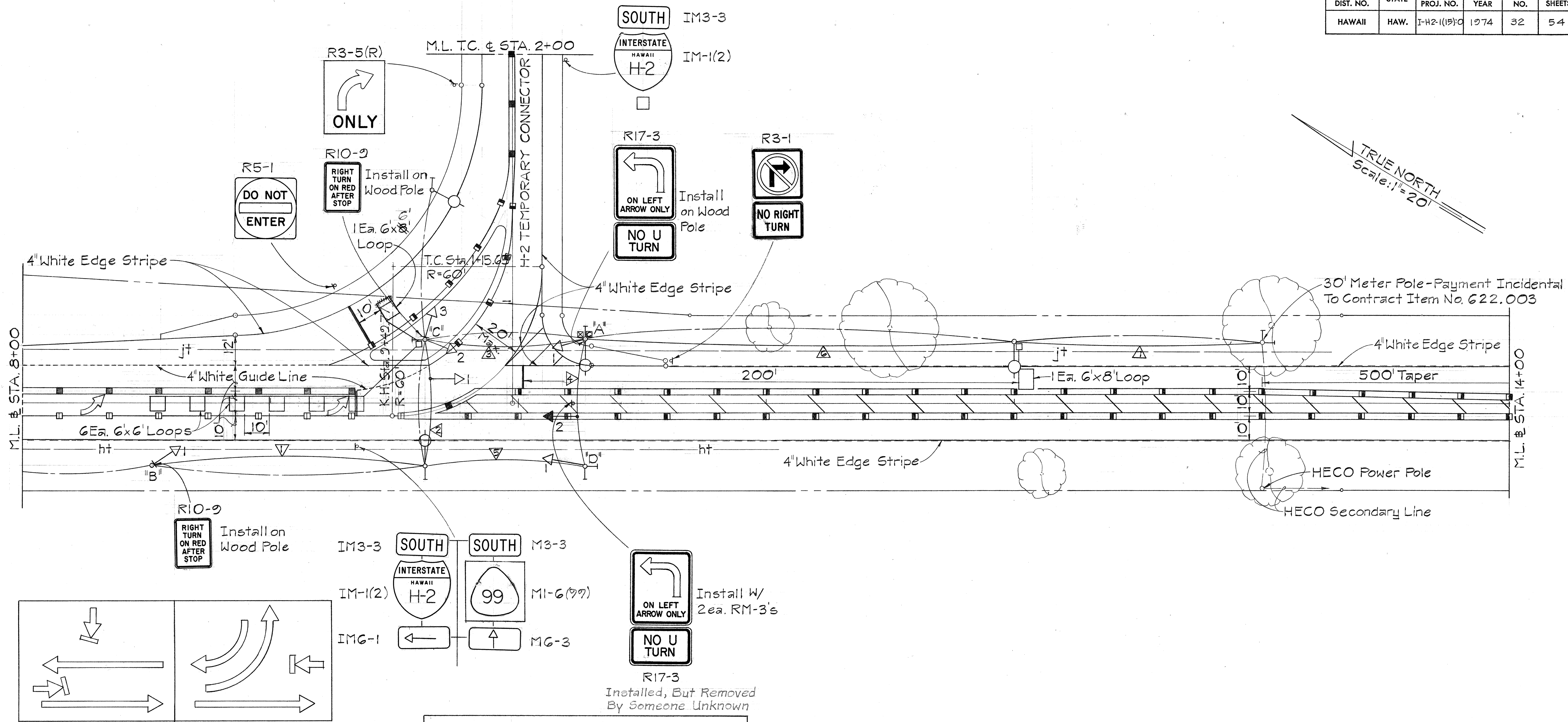
SIGNAL
AHEAD
W3-3

↑ Pearl City
↑ Pearl Harbor
H-2 SOUTH
← Honolulu
SIGN D-1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TRAFFIC CONTROL DEVICES
& HIGHWAY LIGHTING**
INTERSTATE ROUTE H-2
TEMPORARY CONNECTOR
F.A.I. Proj. No. I-H2-1(15)0
Scale: As Shown Date: April, 1974
SHEET No. 1 OF 17 SHEETS

10/10/74 Revised Signing & Striping
DATE REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(15):0	1974	32	54



Signal	Signal Indication	PHASE 1		PHASE 2	
		R _W	Clear	R _W	Clear
C1	←	↑	Y	R	R
C2	←	G	Y	R	R
A1, A2	←	R	R	←	Y
C3, B1	←	R	R	→	Y
D1	←	↑	↑	↑	↑

TRAFFIC SIGNAL CABLE SCHEDULE	
CABLE RUN	DESCRIPTION
ALL	3/8" ϕ Steel Overhead Messenger
1	4-1c #14
2	1-12c #14
3	1-12c #14, 1-2c #14
6	1-2c #14, 1-2c #8
7	1-2c #8

10/10/74

Revised Signing & Signals

DATE

REVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

TRAFFIC CONTROL DEVICES

& HIGHWAY LIGHTING

INTERSTATE ROUTE H-2

TEMPORARY CONNECTOR

F.A.I. Proj. No. I-H2-1(15):0

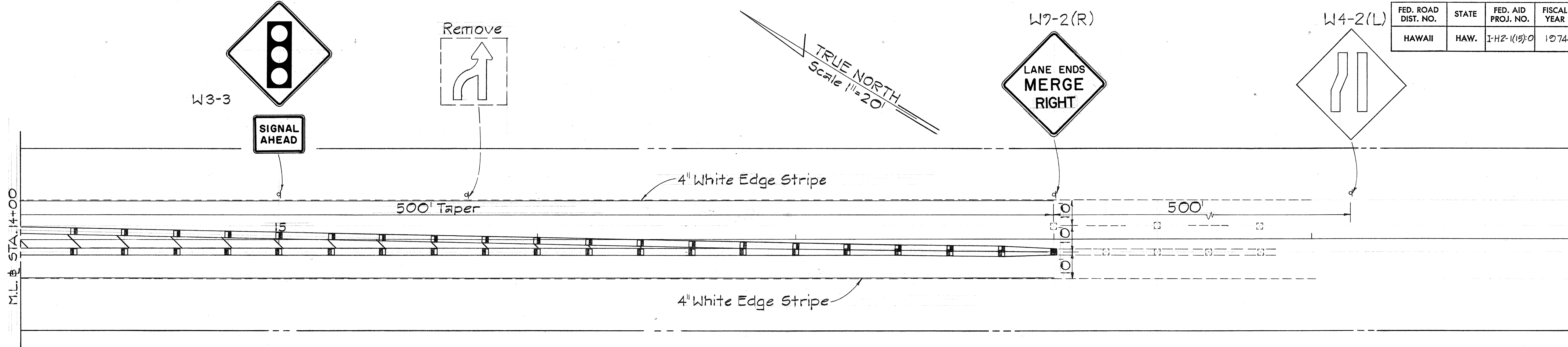
Scale: As Shown

Date: April 1974

SHEET No. 2 OF 17 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(15):0	1974	33	54



LEGEND

TRAFFIC SIGNALS & HIGHWAY LIGHTING

- 30' Wood Pole w/Guy Anchor Assembly
- 12" Signal on 30' Wood Pole
- ⊢→ 12" Signal on Overhead Messenger
- 12" Programmed Visibility Traffic Signal
- Vehicle Loop Detectors
- ☒ Type "A" Pull Box
- Type "B" Pull Box
- ☑ Controller in Type M Cabinet
- ▽ Overhead Traffic Signal Cable w/ 3/8" Messenger
(See Cable schedule for size and No.)
- ⊙ 400 Watt Mercury Vapor Lamp w/10' Mastarm mounted on 30' Wood Pole
- Overhead Highway Lighting Cable w/Neutral Messenger
(See Details, sht. 30)
- j+ Existing Underground Joint Trunking Cable
- h+ Existing Underground Telephone Cable

PAVEMENT STRIPING

- ooooo Type "A" Raised Pavement Markers
- ▢ Type "C" Raised Pavement Markers
- Type "D" Raised Pavement Markers
- ▣ Type "H" Raised Pavement Markers
- ▢-▢-▢ 8" White Stripe w/Type "C" Markers 20' O.C.
- ▢-▢-▢ Double 4" Yellow Stripe w/Type "D" Markers 20' O.C.
- ▢-▢-▢ 8" Yellow Stripe w/Type "H" Markers 20' O.C.
- ▢-▢-▢ Double 4" Yellow Stripe w/Type "H" Markers 20' O.C. and 12" Yellow Diagonals 20' O.C.
- ↗ White Pavement Arrow
- | 24" White Stop Line

SIGNING

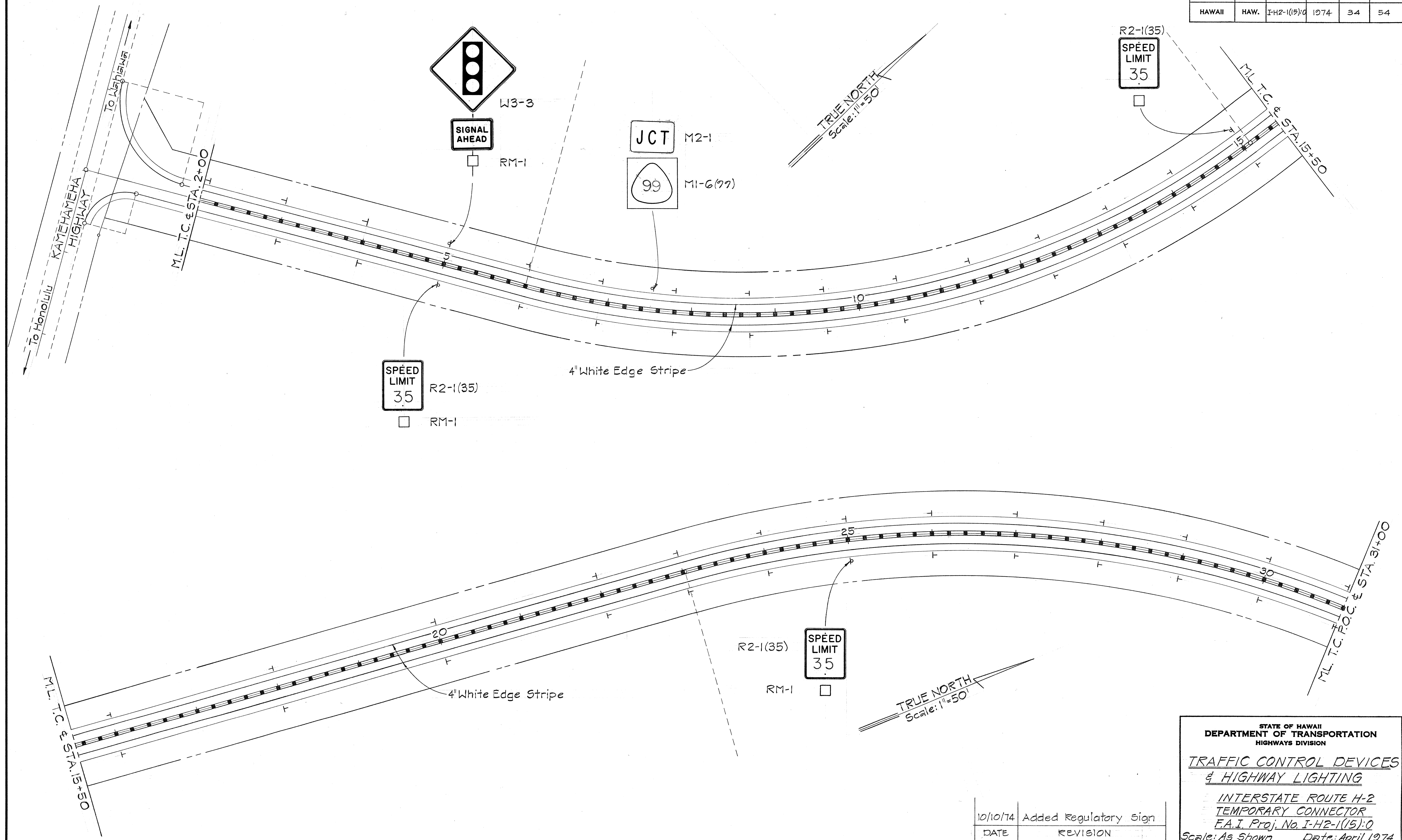
- d Regulatory Or Warning Sign w/Post
- RM-1 w/Post

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL DEVICES
& HIGHWAY LIGHTING
INTERSTATE ROUTE H-2
TEMPORARY CONNECTOR
F.A.I. Proj. No. I-H2-1(15):0
Scale: As Shown Date: April, 1974
SHEET No. 3 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(15):0	1974	34	54



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

10/10/74	Added Regulatory Sign
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

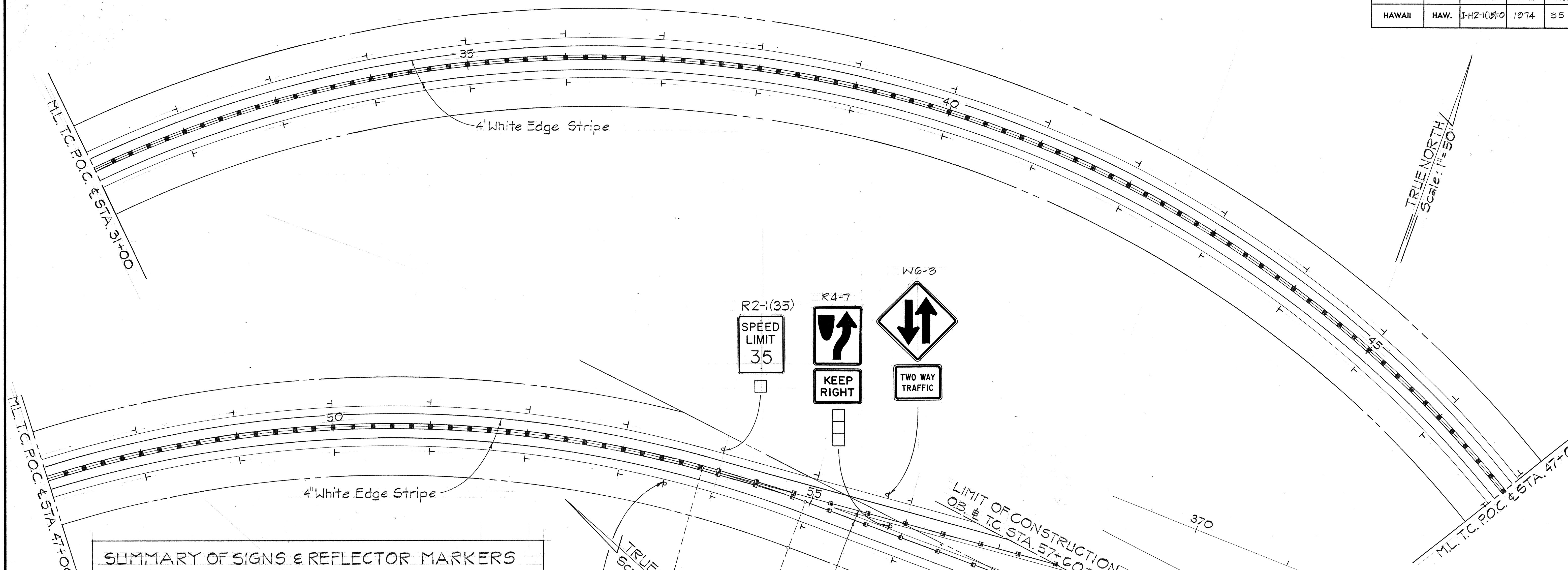
**TRAFFIC CONTROL DEVICES
& HIGHWAY LIGHTING**

INTERSTATE ROUTE H-2
TEMPORARY CONNECTOR
F.A.I. Proj. No. I-H2-1(15):0
Scale: As Shown Date: April, 1974

SHEET No. 4 OF 17 SHEETS

K&E CRYSTALIZED
TRAFFIC PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(15):0	1974	35	54



SUMMARY OF SIGNS & REFLECTOR MARKERS			
Item No.	Description	Type	Quantity
G21.40	Reflector Marker	RM-1	56
G21.41	Reflector Marker w/post	RM-1	108
G21.50	Regulatory & Warning Sign	R10-9 R17-3 WG-1 & WG-3	2 1 EACH
G21.51	Regulatory & Warning Sign w/post	R2-1(35) R3-1 R3-5 R5-1 R17-3 W3-3 W4-2(L) W9-2(R) R4-7 D-1	4 1 1 1 1 3 1 1 1
G21.58	Directional Sign w/posts		
G21.61	Type A Route Marker Assembly	IM3-3, IM-1(2), IM5-1(L) IM3-3, IM-1(2) M2-1, M1-6(99) M3-1, M1-6(99)	1 1 1 1
G21.62	Type B Route Marker Assembly	IM3-3, IM-1(2), IM6-1 M3-3, M1-6(99), MG-3	1

SUMMARY OF PAVEMENT MARKINGS			
ITEM No.	DESCRIPTION	TYPE	AMOUNT
G22.10	PAVEMENT MARKERS		
G22.30	Non-Refli. White	A	162 +56 Ea.
G22.40	Red-Clear Reflective	C	51 Ea.
G22.80	Two Way Yellow Refl.	D	278 +17 Ea.
	One Way Yellow Refl.	H	115 +18 Ea.
G42.10	Pavement Striping	White & Yellow	27,578 L.F.
G42.30	Pavement Arrow	White	25,200 L.F.
			10 Ea.

10/10/74	Added Regulatory & Warning Signs
Date	Revision

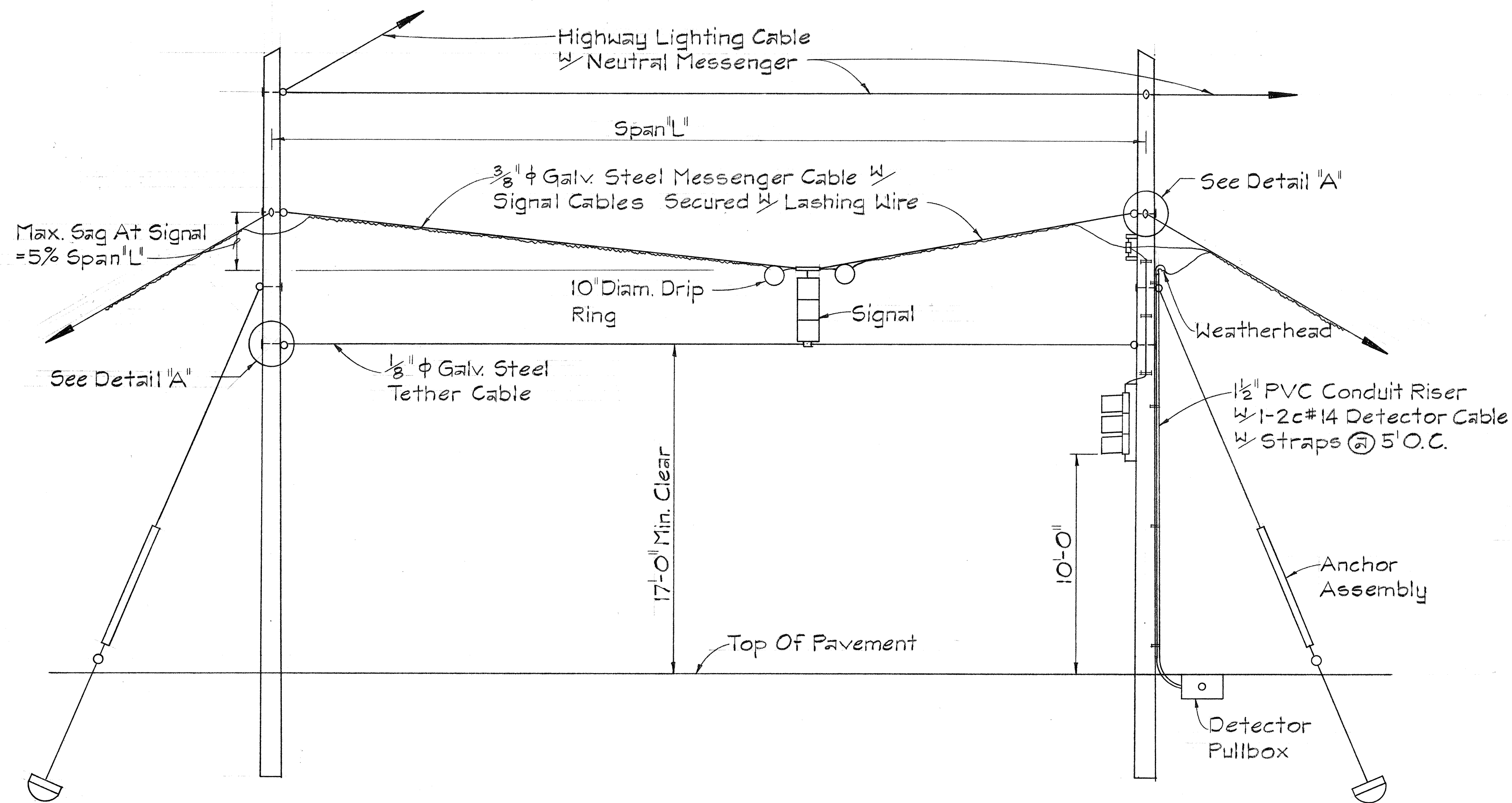
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL DEVICES
& HIGHWAY LIGHTING

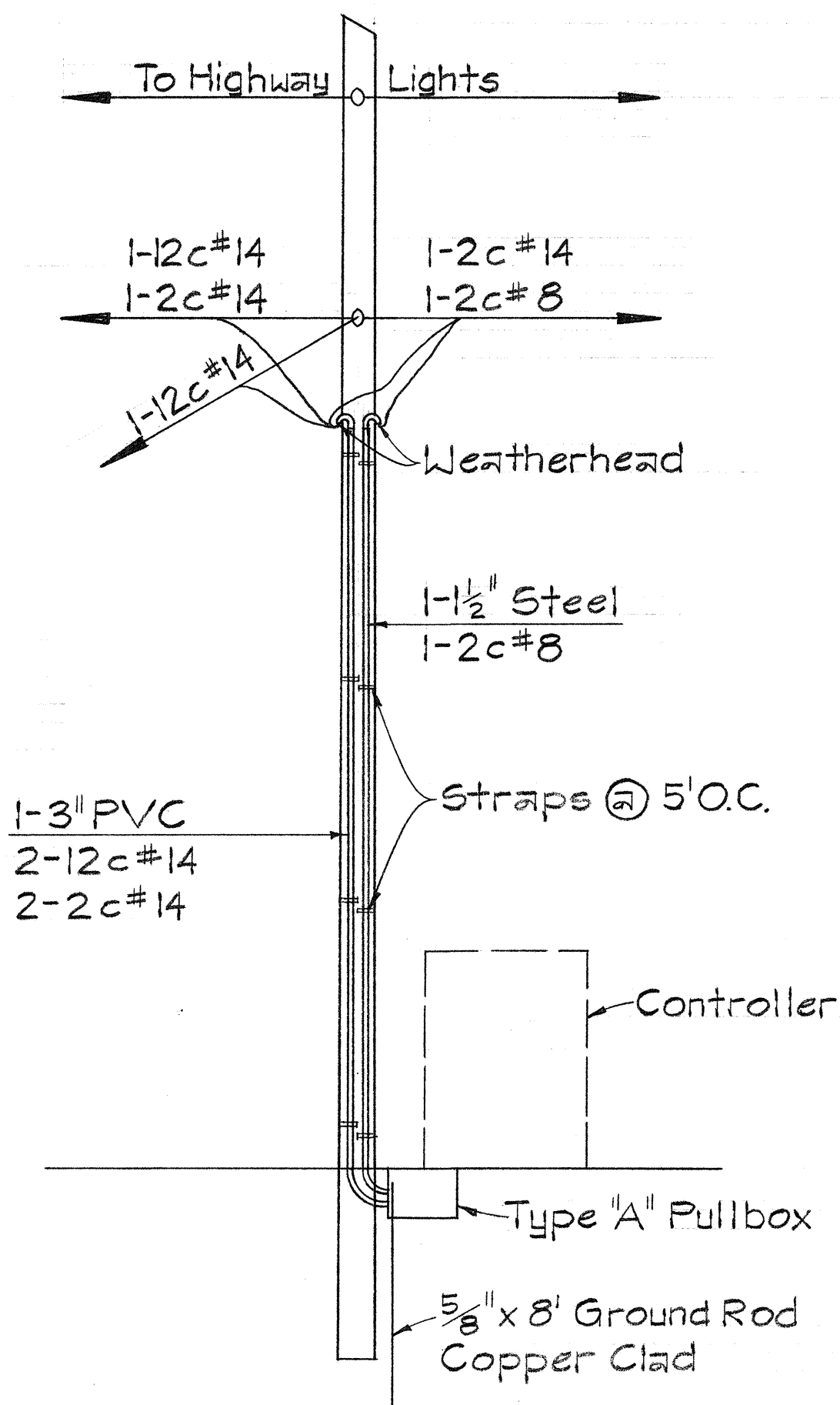
INTERSTATE ROUTE H-2
TEMPORARY CONNECTOR
F.A.I. Proj. No. I-H2-1(15):0
Scale: As Shown Date: April, 1974
SHEET No. 5 OF 17 SHEETS

DESIGNED BY	DATE
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

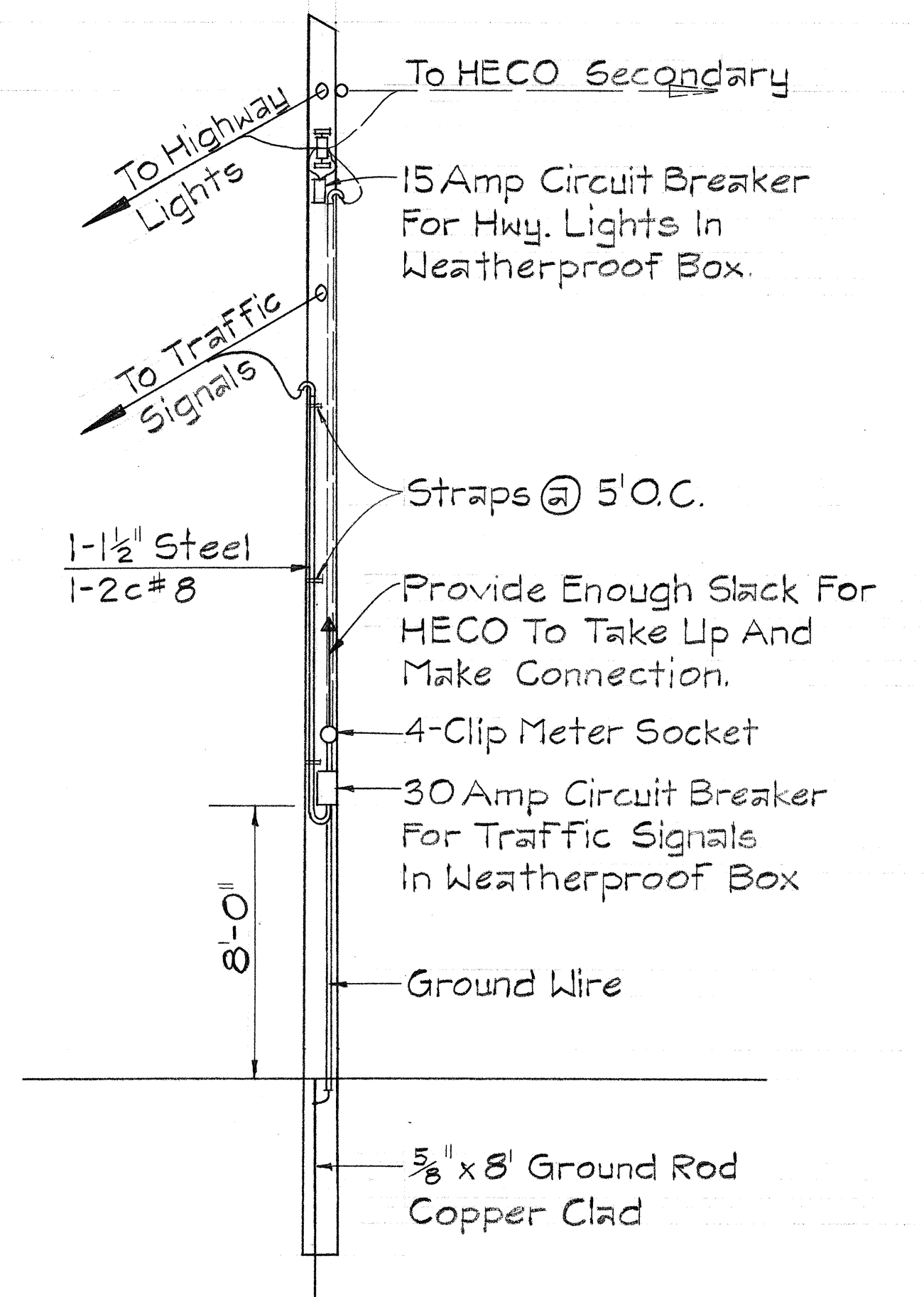
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(15):0	1974	37	54



TYPICAL OVERHEAD INSTALLATION
Not To Scale



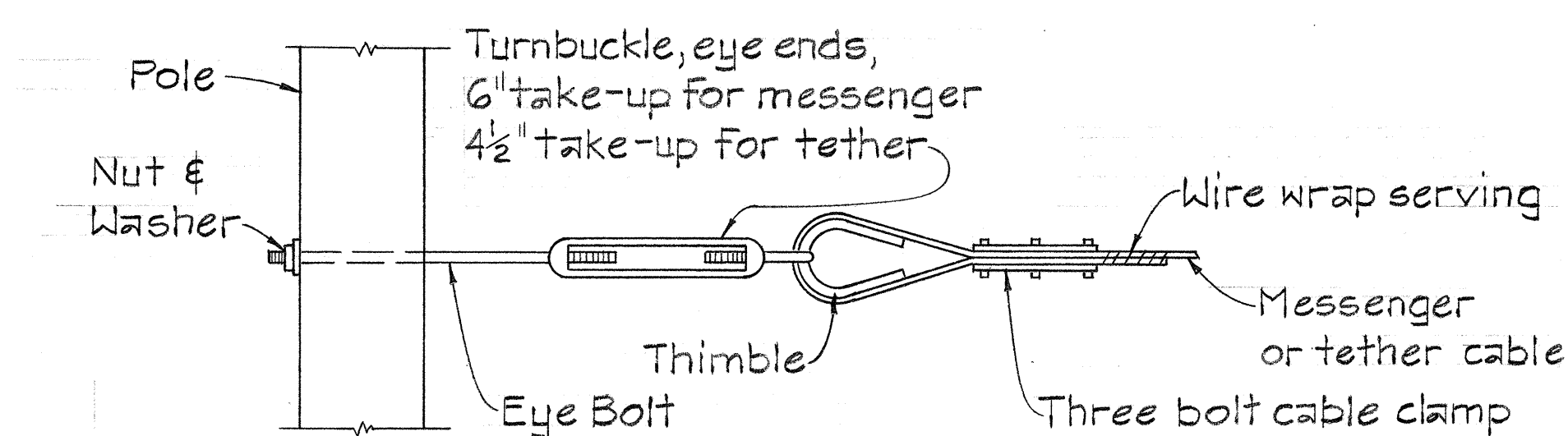
POLE "A"
Not To Scale



METER POLE
Not To Scale

NOTES - TRAFFIC SIGNAL

1. The State shall furnish to the Contractor for installation all traffic signals and signal hardware, controller and cabinet, loop detectors, and 1-12C #14 loop cable.
2. The exact location of poles and signals shall be determined in the field by the Engineer.
3. All materials and workmanship shall conform to the latest requirements of the "National Electric Code," the Rules for Overhead Electric Line Construction, General Order No. 6 of the Public Utilities Commission, the standards of ASTM, Local Joint Pole Agreement, Local Power Company Rules, and any local ordinances which may apply.
4. Wood poles shall be 30ft (exposed length), Class V fully creosoted by pressure treatment.



NOTE:

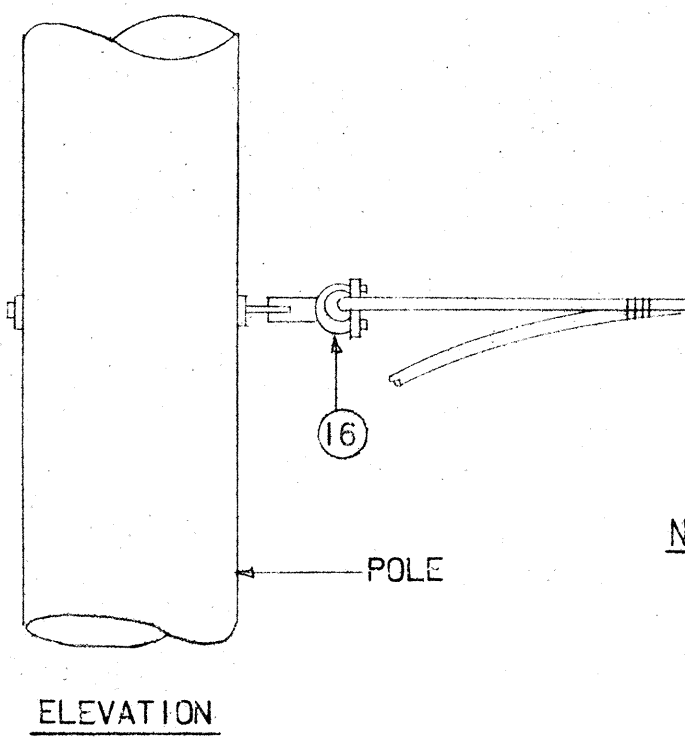
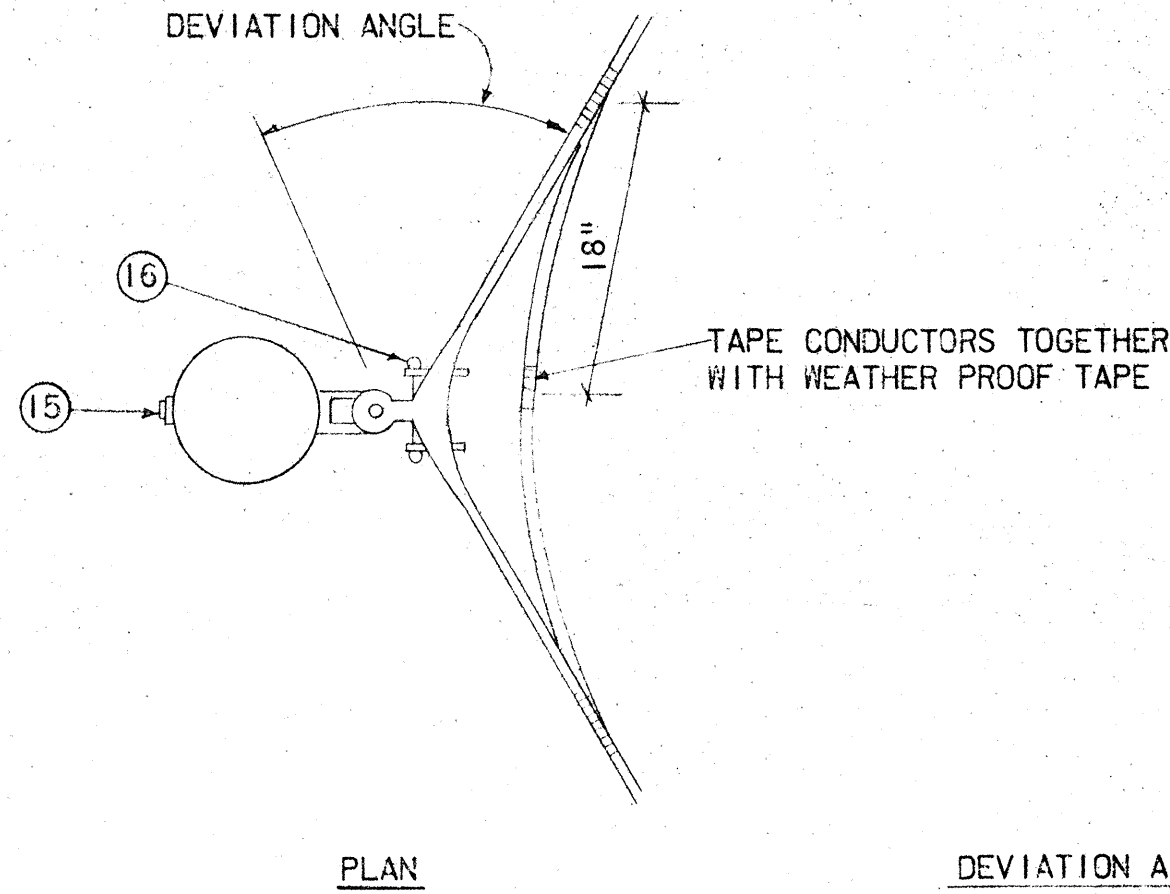
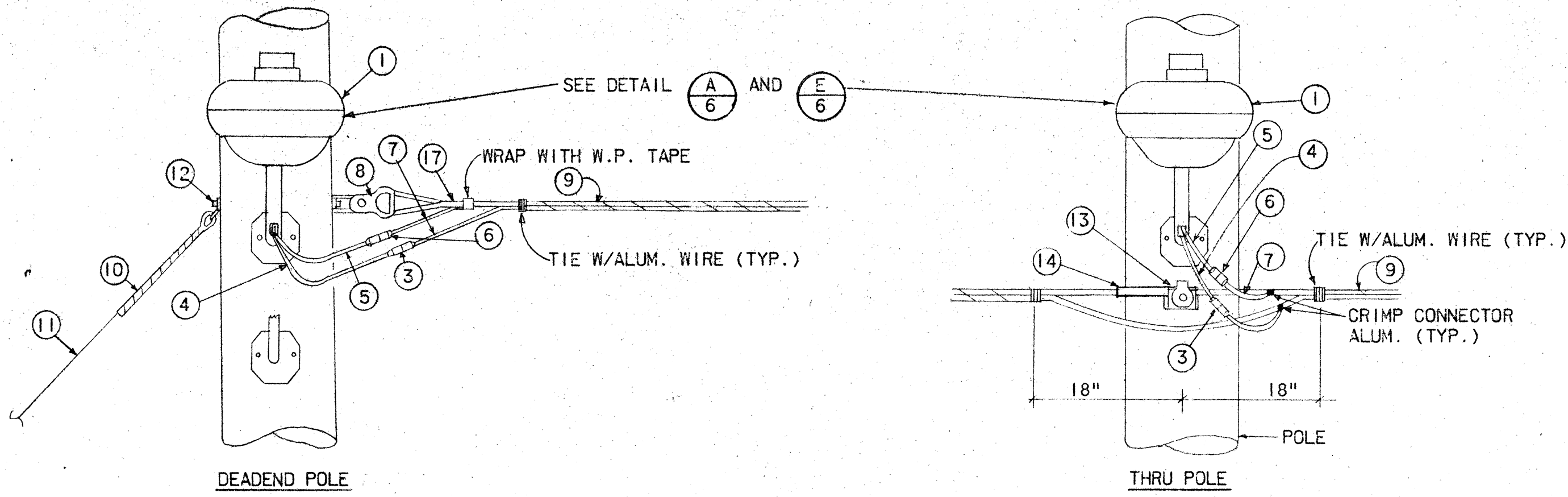
1. Messenger and tether cables shall conform to A.S.T.M. A-475-G2, extra high strength, class "C" coating.
2. All cable fittings shall be galvanized.
3. All fittings shall be designed for full strength of connected cable.

DETAIL "A"
Not To Scale

DESIGNED BY	DATE
TRACED BY	
NOTE BOOK	
CHECKED BY	
No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC SIGNAL SYSTEM
INSTALLATION DETAILS
INTERSTATE ROUTE H-2
TEMPORARY CONNECTOR
F.A.I. Proj. No. I-H2-1(15):0
Scale: As Shown Date: April, 1974
SHEET No. 7 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(15):0	1974	38	54



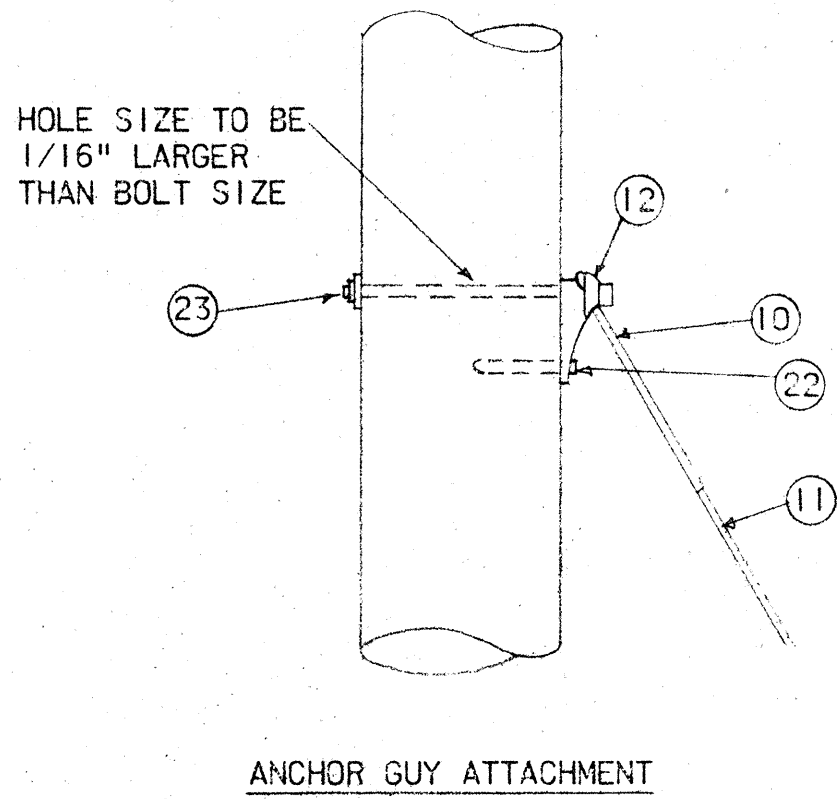
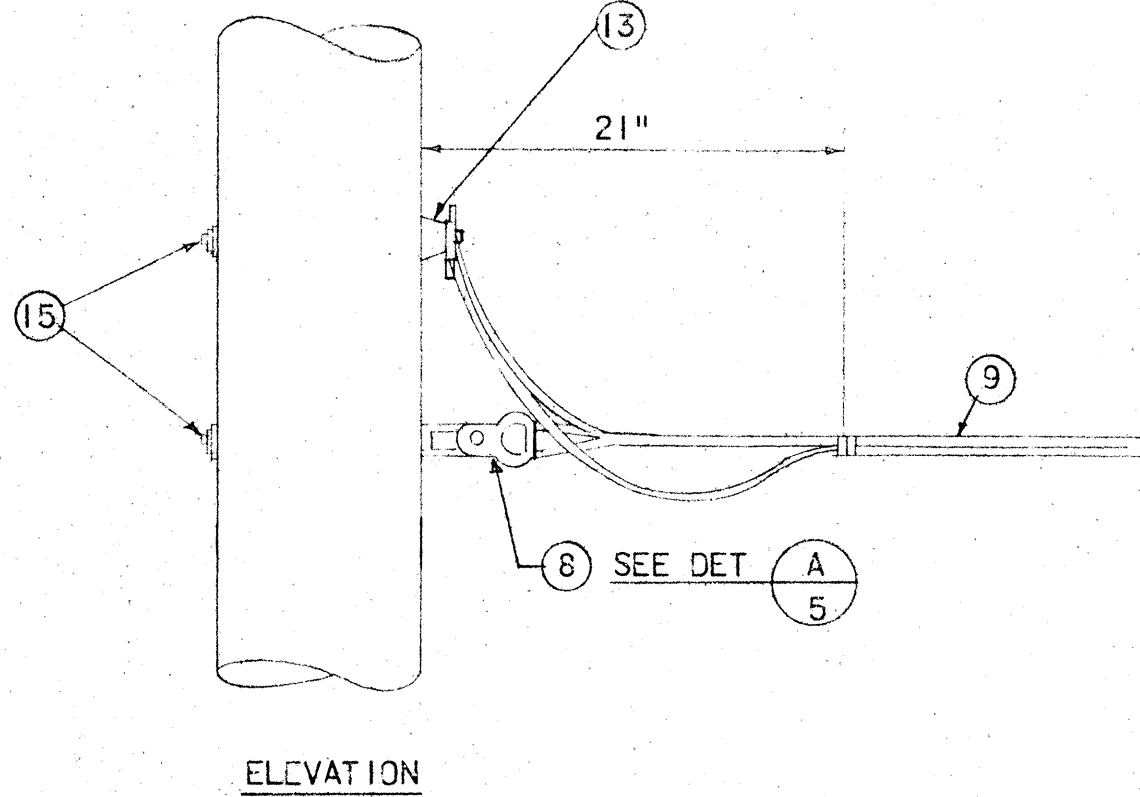
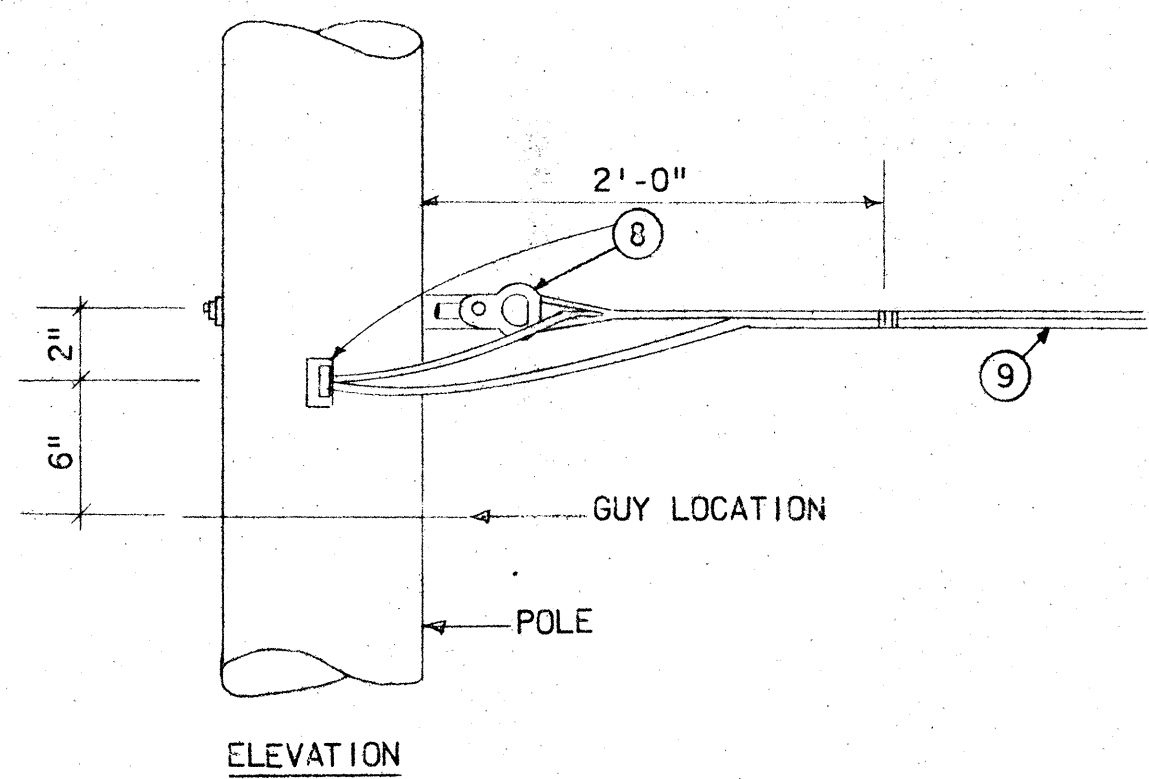
NOTE:
1. SEE SHEET 6 FOR LIST OF MATERIAL

DETAIL A
N.T.S.

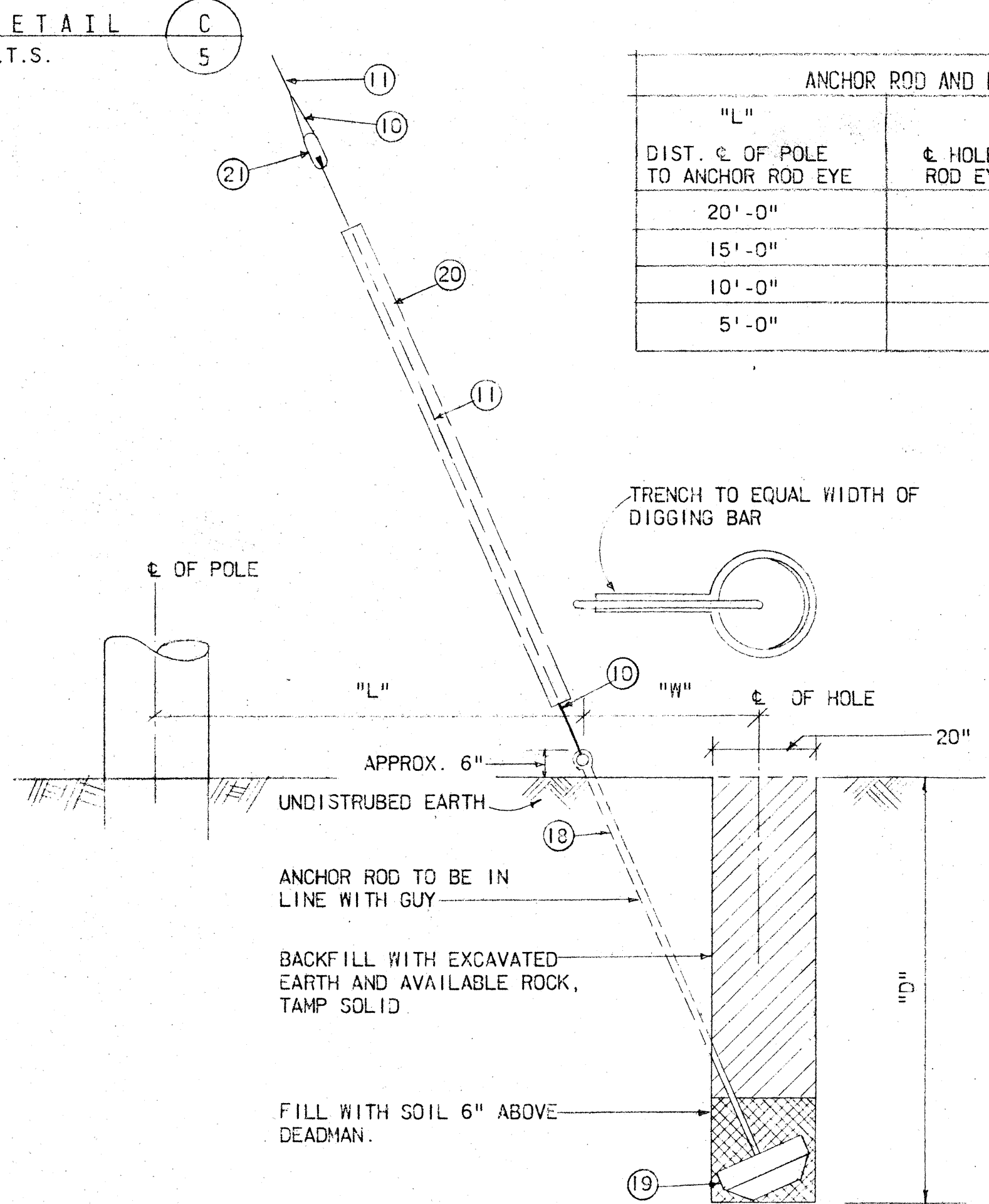
DETAIL B
N.T.S.

DETAIL C
N.T.S.

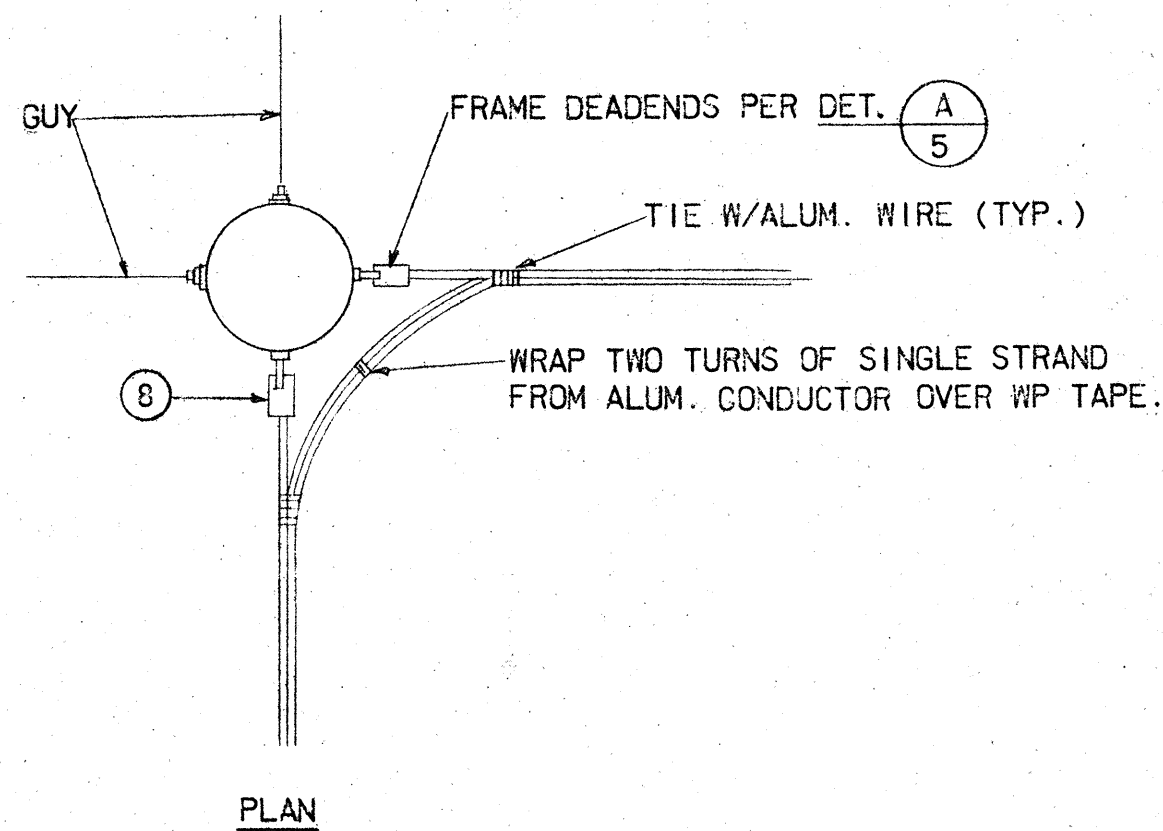
ANCHOR ROD AND DEADMAN DIMENSIONS		
"L" DIST. & OF POLE TO ANCHOR ROD EYE	"W" & HOLE TO ANCHOR ROD EYE	"D" VERTICAL DEPTH
20'-0"	56"	66"
15'-0"	48"	73"
10'-0"	36"	79"
5'-0"	20"	85"



DETAIL F
N.T.S.

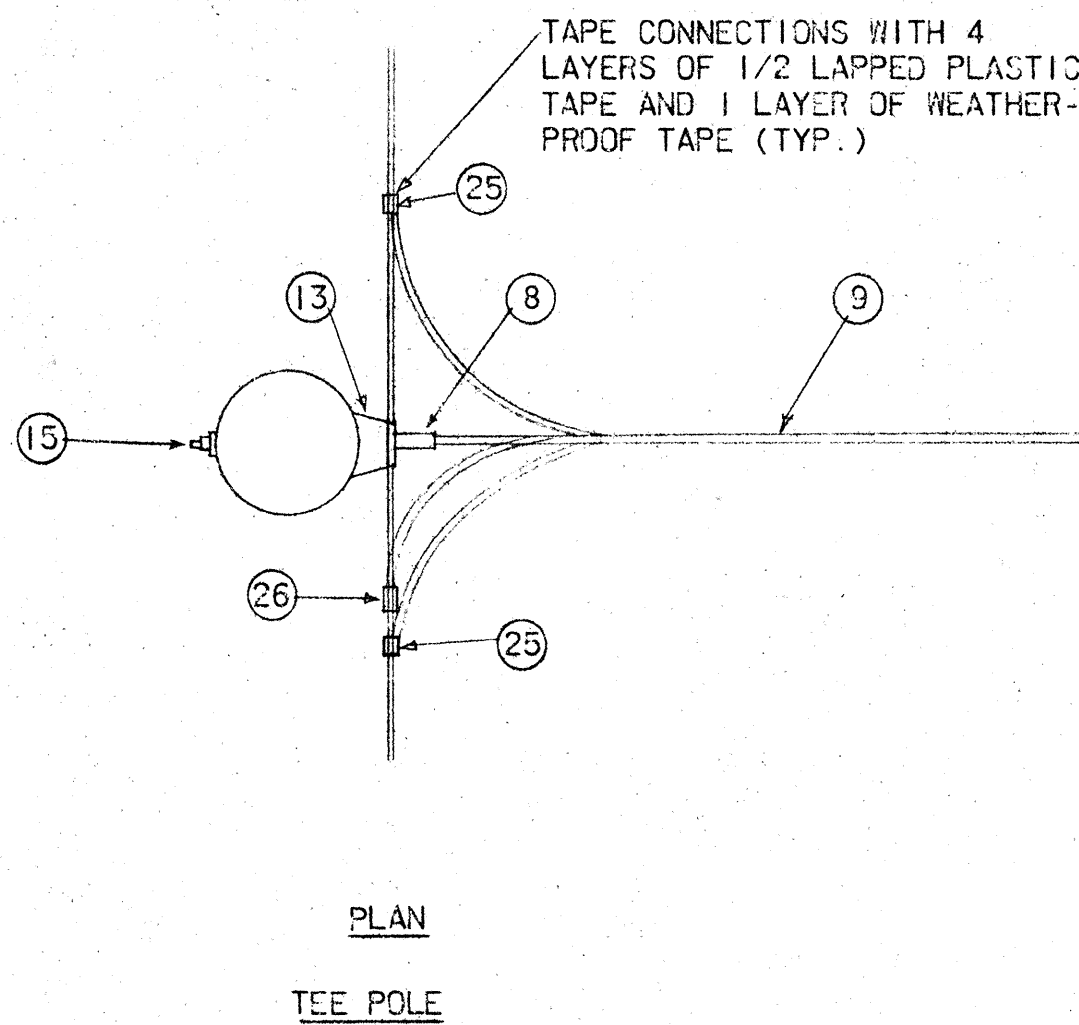


GUY DETAILS
N.T.S.



DEVIATION ANGLE 30° - 90°

DETAIL D
N.T.S.



PLAN
TEE POLE

DETAIL E
N.T.S.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**HIGHWAY LIGHTING
DETAILS**
INTERSTATE ROUTE H-2
TEMPORARY CONNECTOR
F.A.I. Proj. No. I-H2-1(15):0
Scale: As Shown Date: April, 1974
SHEET No. 8 OF 17 SHEETS

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-H2-1(15):0	1974	39	54

LIST OF MATERIAL

ITEM NO.	DESCRIPTION
1	LUMINAIRE, MERCURY, 400W, AS INDICATED, TYPE WITH PHOTO-ELECTRIC CONTROL AND MAST ARM.
2	CONDUIT, 3/4" PVC SCHEDULE 80 AND STRAPS
3	IN LINE FUSE HOLDER W/10A FUSE
4	WIRE, NO.10 AWG STRANDED COPPER, TYPE RHW BLACK
5	WIRE, NO.10 AWG STRANDED COPPER, TYPE RHW WHITE
6	IN LINE UNFUSED, INSULATED SEPARABLE CONNECTOR
7	WIRE NO.8 AWG 7-STRAND ALUMINUM, TYPE RHW
8	THIMBLE CLEVIS, ALUMINUM ALLOY WITH ALUMINUM ALLOY EYELET
9	WIRES, 2 NO.1/0 CROSS-LINKED POLYETHYLENE ALUM. WITH NO.3/0 AAAC NEUTRAL MESSENGER
10	PERFORMED GUY GRIP
11	GUY WIRE, 3/8" EHS, GALV.
12	ANCHOR GUY HOOK W/3/4" DIA. THRU BOLT AND 2-1/4" SQ. WASHER
13	MESSENGER HANGER, CAST ALUMINUM W/5/8" ALUMINUM ALLOY THRU BOLT AND 2-1/4" ALUM. ALLOY SQUARE WASHER
14	ALUMINUM SHEET WRAP (AROUND MESSENGER)
15	5/8" ALUM. ALLOY THRU BOLT W/2-1/2" SQUARE ALUM. ALLOY CURVED WASHER, LENGTH AS REQUIRED.
16	ALUMINUM ALLOY SUSPENSION CLAMPS WITH LINE GUARD AND ALUM. ALLOY EYELET
17	ALUM. ALLOY PREFORMED DEADEND
18	ANCHOR ROD, 1" X 8' COPPER CLAD.
19	CONCRETE DEADMAN, 18" DIAMETER W/GALV. SQUARE WASHER
20	GUY WIRE GUARD, GALV.
21	INSULATOR, PORCELAIN
22	LAG SCREW
23	5/8" GALVANIZED THRU BOLT W/2-1/2" SQUARE GALV. WASHER AND NUT, LENGTH AS REQUIRED.
24	DEADEND SPOOL AND FORK
25	ALUMINUM COMPRESSION TAP CONDUCTOR, NO.1/0 ALUMINUM
26	ALUMINUM COMPRESSION TAP CONDUCTOR, NO.3/0 ALUMINUM

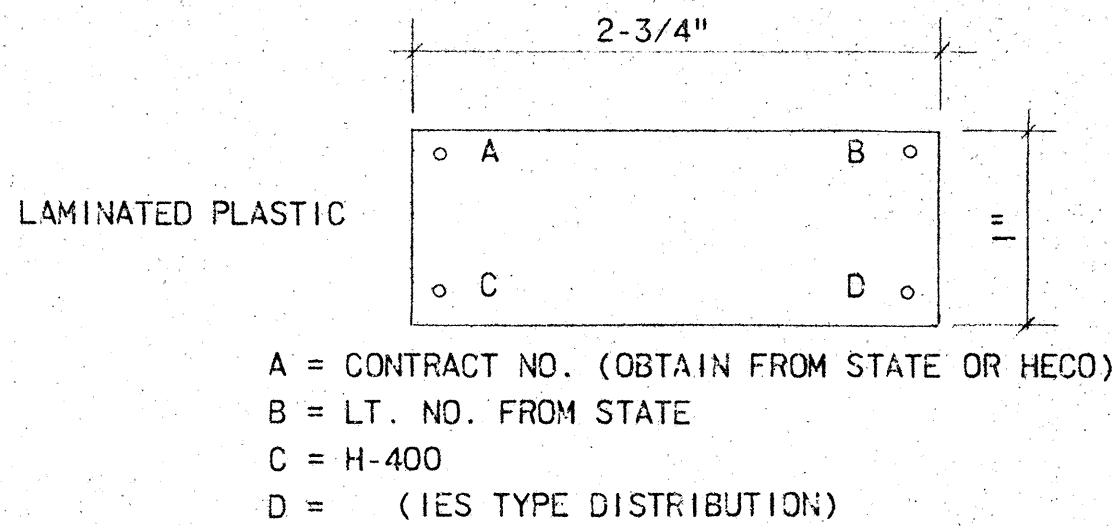
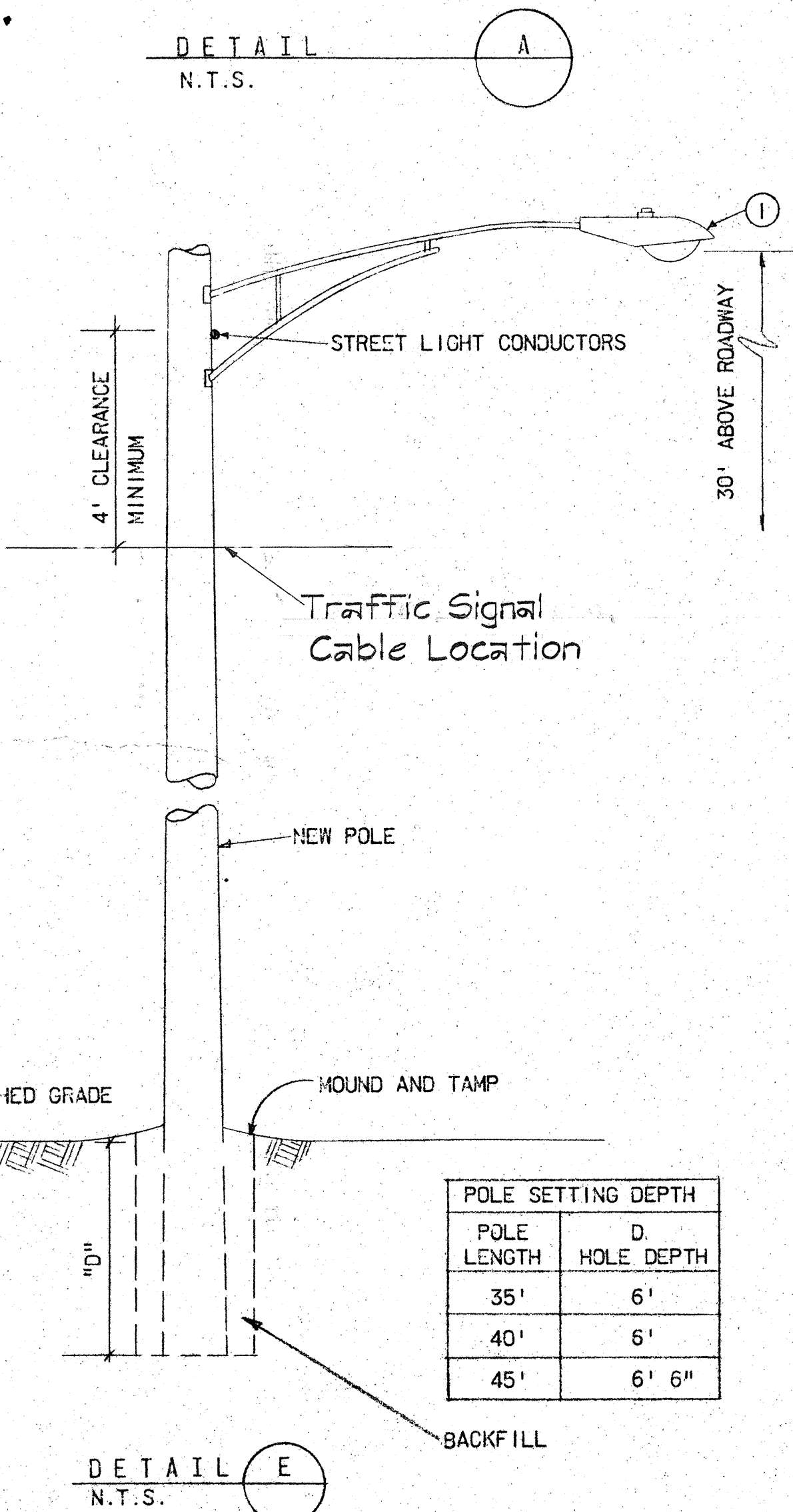
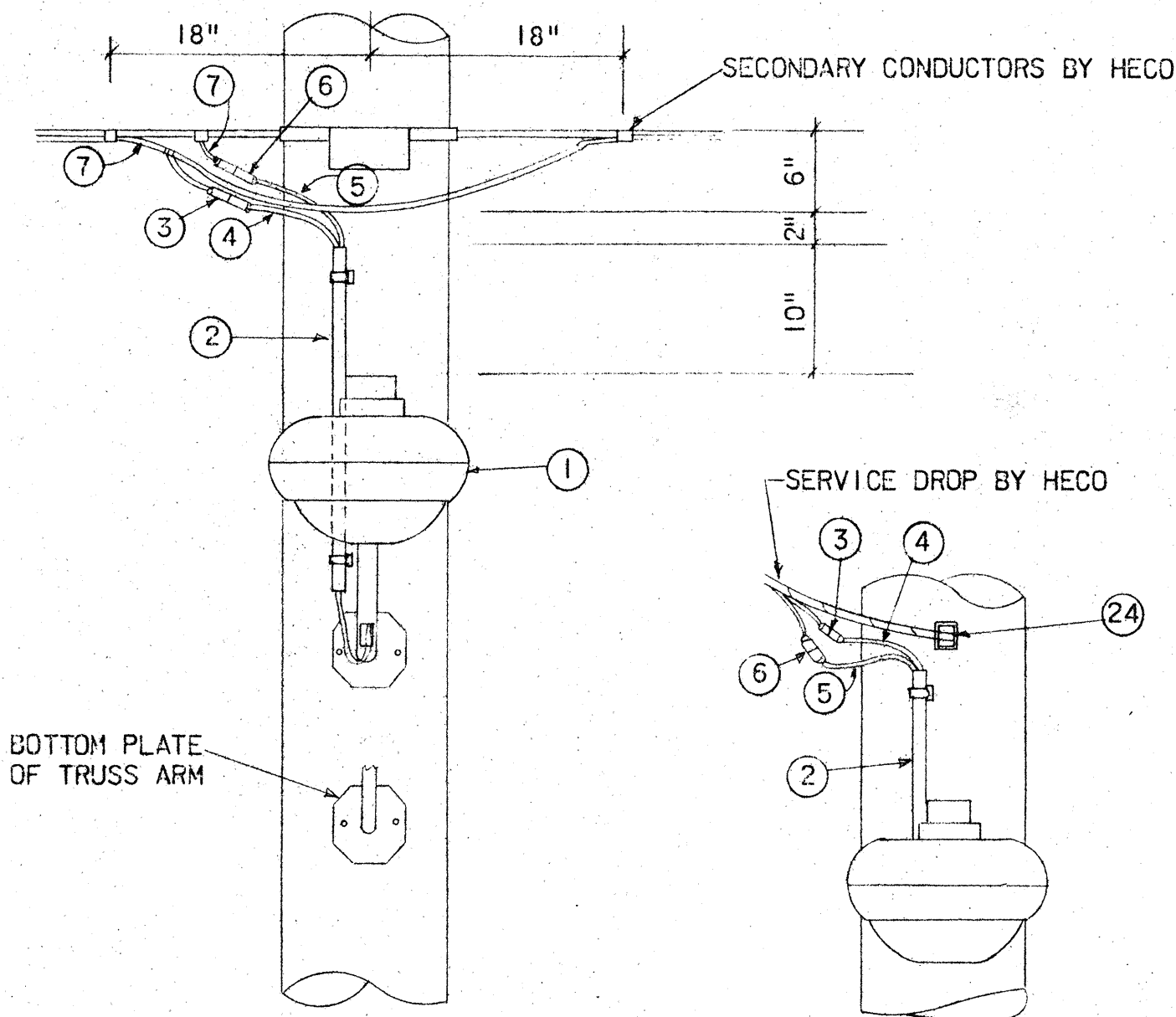
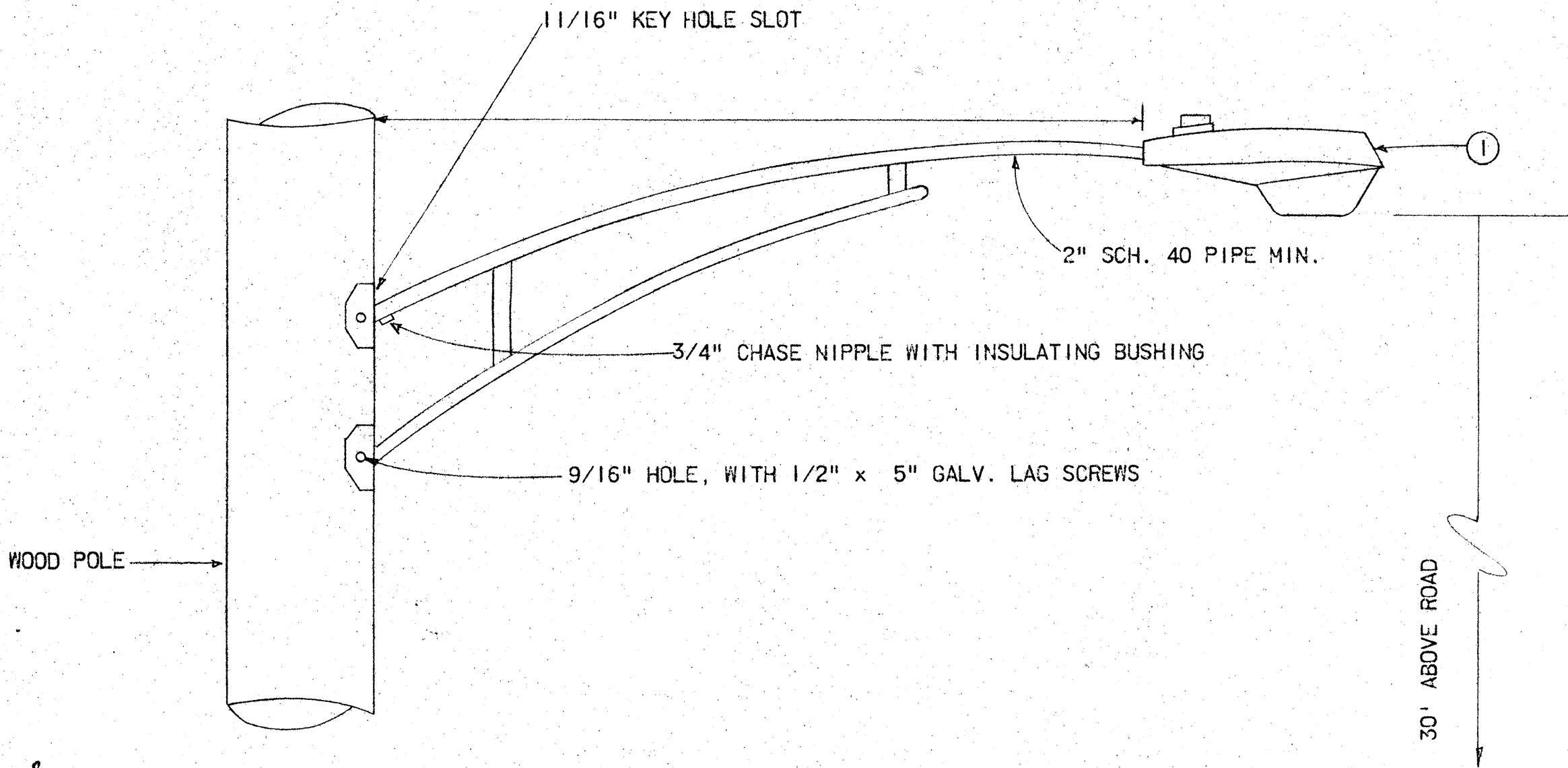
NOTES:

- ALL HARDWARE, UNLESS INDICATED AS ALUMINUM OR ALUMINUM ALLOY, SHALL BE HOT DIPPED GALVANIZED STEEL.
- PROVIDE IDENTIFICATION TAG ON ALL POLES.
- STREET LIGHT NUMBERS ON PLANS DO NOT CORRESPOND WITH NUMBERS ON IDENTIFICATION TAGS. LIGHT NUMBERS TO BE ENGRAVED ON IDENTIFICATION TAG TO BE OBTAINED FROM STATE OF HAWAII.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

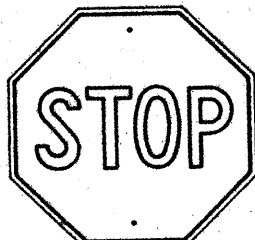
HIGHWAY LIGHTING
DETAILS
INTERSTATE ROUTE H-2
TEMPORARY CONNECTOR
F.A.I. Proj. No. I-H2-1(15):0
Scale: As Shown Date: April 1974

SHEET No. 7 OF 17 SHEETS



DESIGNED BY	DATE
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APPROVED BY	

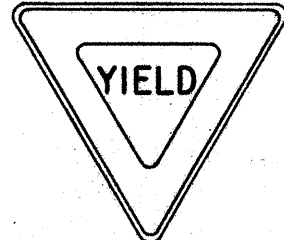
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(15)-D	1974	41	54



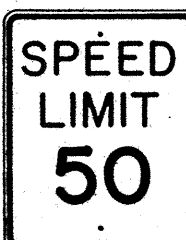
R1-1 30"x30"
R1-1-A 36"x36"

4-WAY

R1-3 12"x6"
R1-3-A 18"x9"



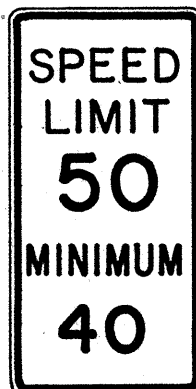
R1-2 36"x36"x36"
R1-2-A 48"x48"x48"



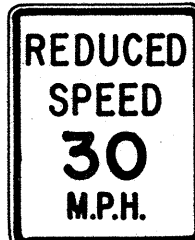
R2-1(50) 24"x30"
R2-1(50)-A 48"x60"



R2-2(40) 24"x24"
R2-2(40)-A 48"x48"



R2-4a(50/40) 24"x48"
R2-4a(50/40)-A 48"x96"



R2-5b(30) 24"x30"
R2-5b(30)-A 48"x60"



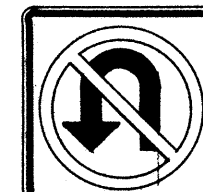
R3-1 24"x24"
24"x18"
R3-1-A 48"x48"
48"x36"



R3-2 24"x24"
24"x18"
R3-2-A 48"x48"
48"x36"



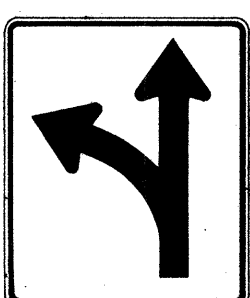
R3-3 24"x24"
R3-3-A 48"x48"



R3-4 24"x24"
24"x18"
R3-4-A 48"x48"
48"x36"



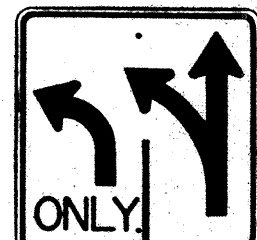
R3-5(L) 30"x36"
R3-5(L)-A 48"x60"



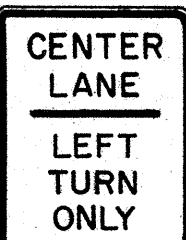
R3-6(L) 30"x36"
R3-6(L)-A 48"x60"



R3-7(R) 30"x30"
R3-7(R)-A 48"x48"



R3-8(L) 30"x30"
R3-8(L)-A 36"x36"
R3-8(L)-B 48"x48"



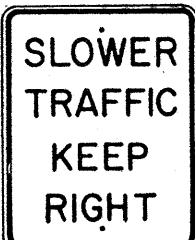
R3-9 24"x30"



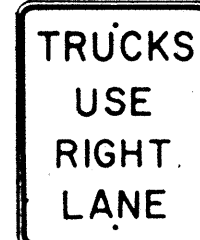
R4-1 24"x30"



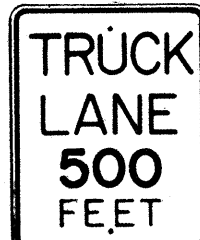
R4-2 24"x30"



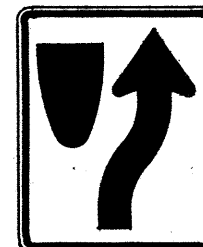
R4-3 24"x30"
R4-3-A 48"x60"



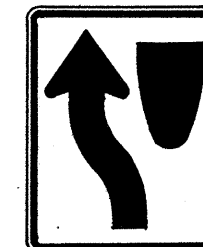
R4-5 24"x30"



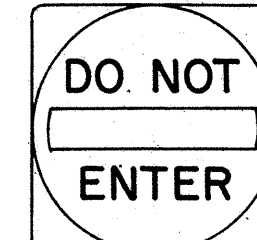
R4-6(500) 24"x30"



R4-7 24"x30"
24"x18"



R4-8 24"x30"
24"x18"



R5-1 30"x30"
R5-1-A 48"x48"



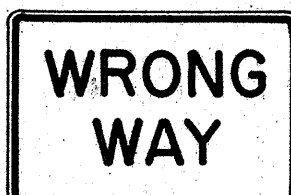
R5-2 24"x24"
24"x18"



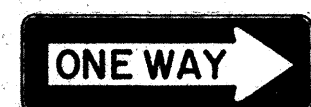
R5-4 24"x30"



R5-6 24"x24"
24"x18"



R5-9 36"x24"



R6-1(R) 36"x12"



R6-2(R) 18"x24"



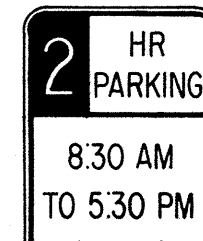
R7-1 12"x18"
R7-1-A 24"x30"



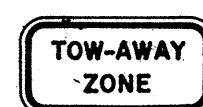
R7-4 12"x18"
R7-4-A 24"x30"



R7-107(R) 12"x18"



R7-108 12"x18"



R7-201 12"x6"
R7-201-A 24"x12"



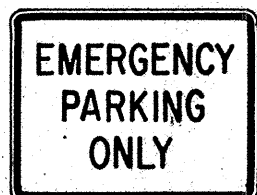
R8-1 24"x30"



R8-2 24"x30"



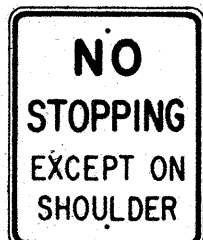
R8-3 24"x30"



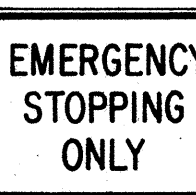
R8-4 30"x24"
R8-4-A 48"x36"



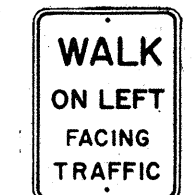
R8-5 24"x30"



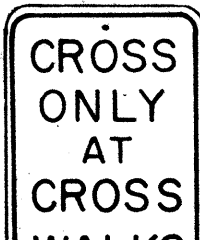
R8-6 24"x30"



R8-7 30"x24"
R8-7-A 48"x36"



R9-1 18"x24"



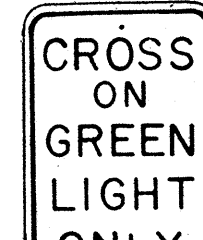
R9-2 12"x18"



R9-3 12"x18"



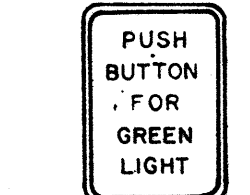
R9-4 18"x24"



R10-1 12"x18"



R10-2 12"x18"



R10-3 9"x12"



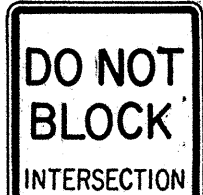
R10-4 9"x12"



R10-5 24"x30"



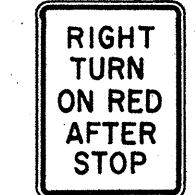
R10-6 24"x36"



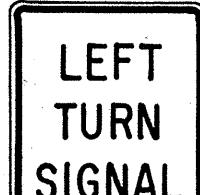
R10-7 24"x30"



R10-8 24"x30"



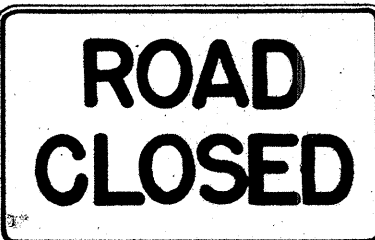
R10-9 24"x30"



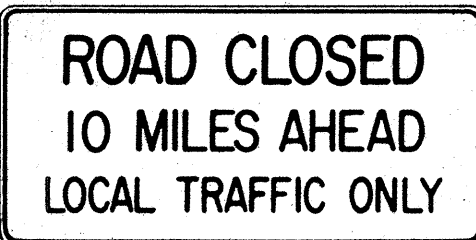
R10-10 24"x30"



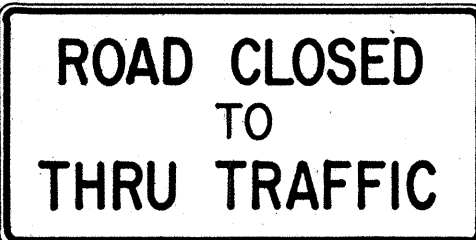
R11-1 24"x30"



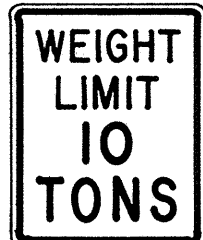
R11-2 48"x30"



R11-3(10) 60"x30"



R11-4 60"x30"



R12-1(10) 24"x30"

GENERAL NOTES

- Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs."
- All regulatory signs shall be reflectorized unless otherwise specified.
- All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.

APPROVAL RECOMMENDED:

TRAFFIC ENGINEER

3/17/72
DATE

APPROVED:

ASSISTANT CHIEF, ENGINEERING

3-20-72
DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 101 Approved 12-30-69	H.C.	3/20/72

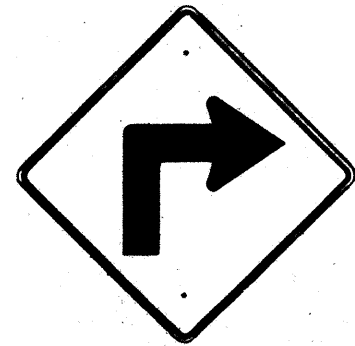
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS REGULATORY SIGNS

NOT TO SCALE

SHEET No. 11 OF 17 SHEETS DT 101

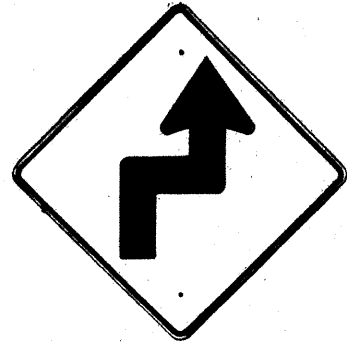
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII *	HAW.	I-H2-1(15)10	1074	42	54



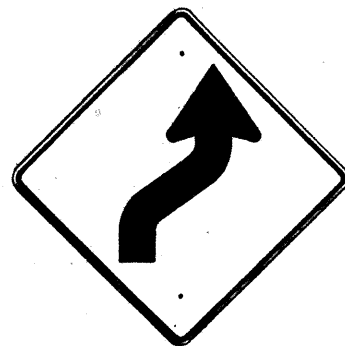
W1-1(R) 30"x30"
W1-1(R)-A 48"x48"



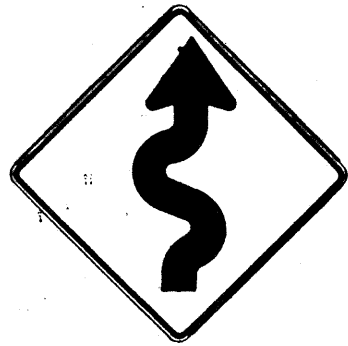
W1-2(R) 30"x30"
W1-2(R)-A 48"x48"



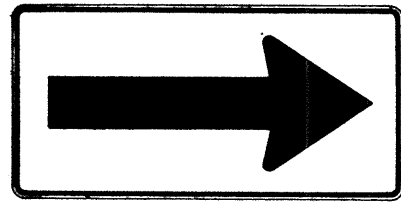
W1-3(R) 30"x30"
W1-3(R)-A 48"x48"



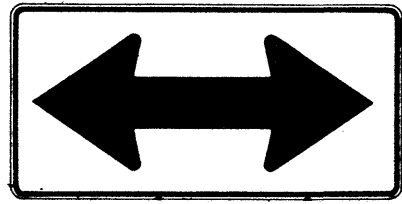
W1-4(R) 30"x30"
W1-4(R)-A 48"x48"



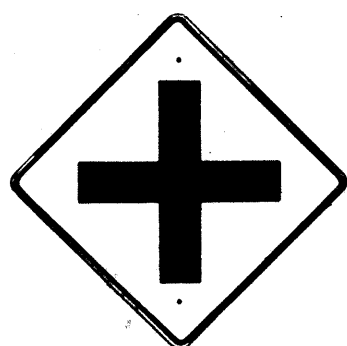
W1-5(R) 30"x30"
W1-5(R)-A 48"x48"



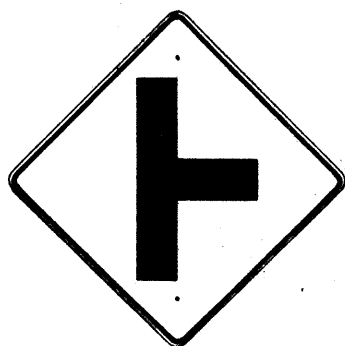
W1-6 48"x24"



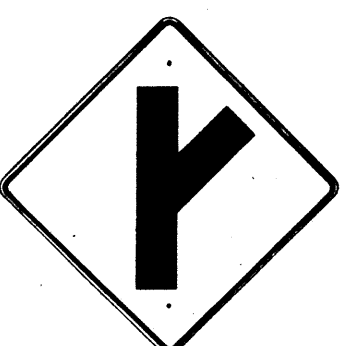
W1-7 48"x24"



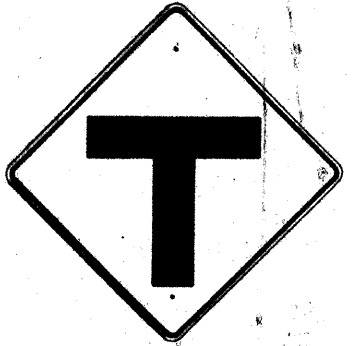
W2-1 30"x30"
W2-1-A 48"x48"



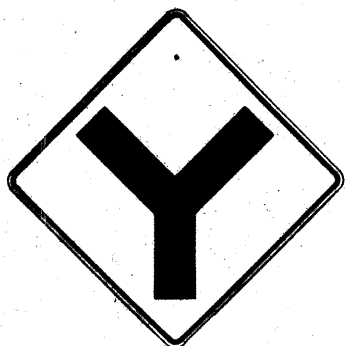
W2-2 30"x30"
W2-2-A 48"x48"



W2-3(R) 30"x30"
W2-3(R)-A 48"x48"



W2-4 30"x30"
W2-4-A 48"x48"



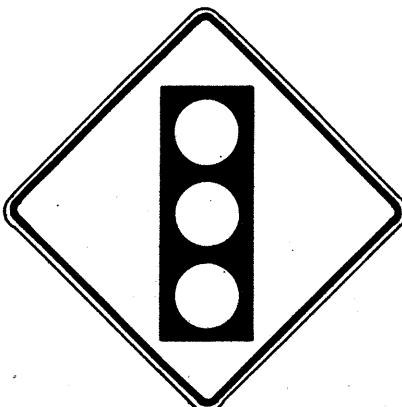
W2-5 30"x30"
W2-5-A 48"x48"



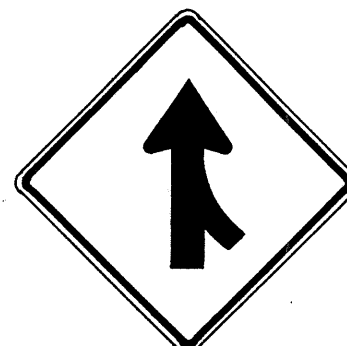
W3-1 30"x30"
W3-1-A 36"x36"



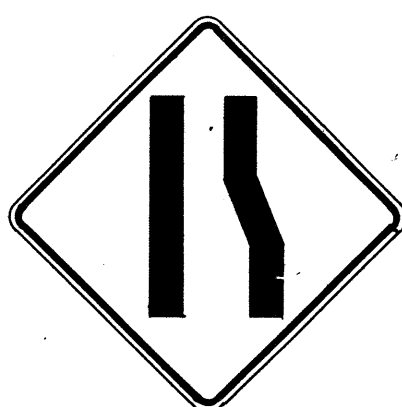
W3-2 30"x30"
W3-2-A 36"x36"



SIGNAL
AHEAD
W3-3 36"x36"
24"x18"



MERGE
W4-1(R) 30"x30"
24"x18"
W4-1(R)-A 48"x48"
24"x18"



W4-2(R) 36"x36"
W4-2(R)-A 48"x48"



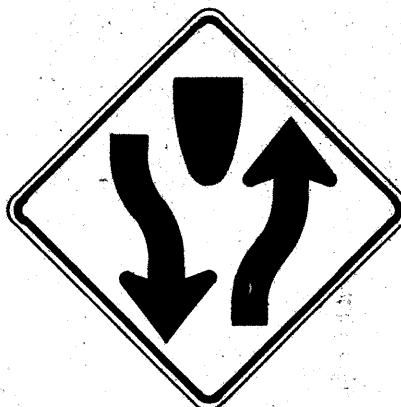
W5-1 36"x36"



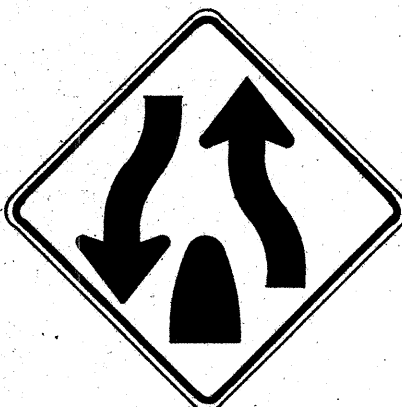
W5-2 30"x30"
W5-2-A 36"x36"



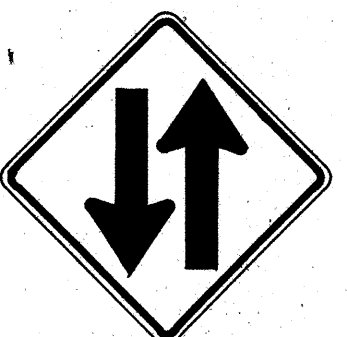
W5-3 36"x36"



DIVIDED
HIGHWAY
W6-1 36"x36"
24"x18"



DIVIDED
HIGHWAY
ENDS
W6-2 36"x36"
24"x18"



TWO WAY
TRAFFIC
W6-3 30"x30"
24"x18"
W6-3-A 36"x36"
24"x18"
W6-3-B 48"x48"
24"x18"



HILL
W7-1 30"x30"
24"x18"
W7-1-A 36"x36"
24"x18"



USE LOW
GEAR
W7-2 24"x18"



W8-1 30"x30"
W8-1-A 36"x36"



W8-2 30"x30"
W8-2-A 36"x36"



W8-3 30"x30"
W8-3-A 36"x36"



W8-4 30"x30"
W8-4-A 36"x36"



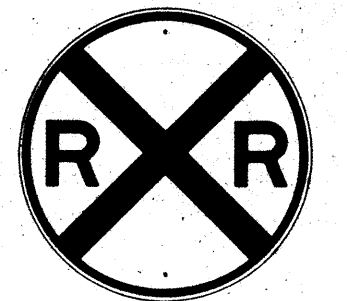
SLIPPERY
WHEN WET
W8-5 30"x30"
24"x18"
W8-5-A 36"x36"
24"x18"



W9-1(R) 30"x30"
W9-1(R)-A 36"x36"
W9-1(R)-B 48"x48"



W9-2(L) 36"x36"
W9-2(L)-A 48"x48"



W10-1 36" Diameter



BIKE
XING
W11-1 30"x30"
24"x18"
W11-1-A 36"x36"
24"x18"



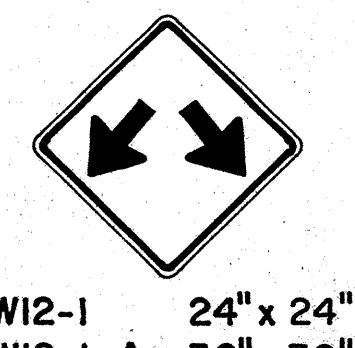
PED
XING
W11-2 30"x30"
24"x18"
W11-2-A 36"x36"
24"x18"



CATTLE
XING
W11-4 30"x30"
24"x18"
W11-4-A 36"x36"
24"x18"



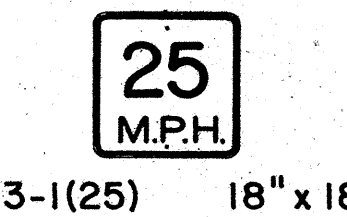
FARM
MACHINERY
W11-5 30"x30"
24"x18"
W11-5-A 36"x36"
24"x18"



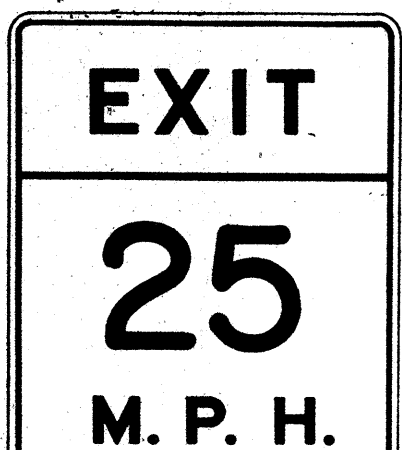
W12-1 24"x24"
W12-1-A 36"x36"
W12-1-B 48"x48"



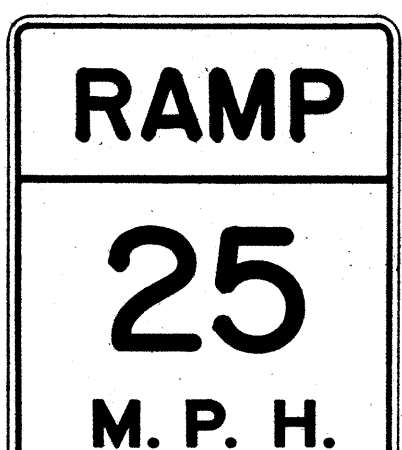
LOW
CLEARANCE
W12-2(12'-6") 36"x36"
24"x18"



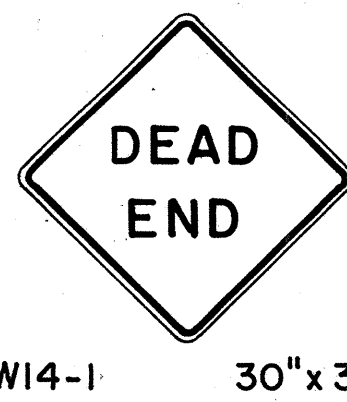
25
M.P.H.
W13-1(25) 18"x18"
W13-1(25)-A 24"x24"



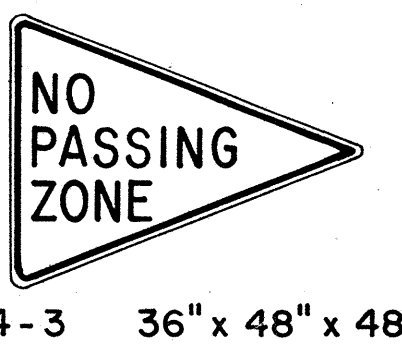
W13-2(25) 48"x60"



W13-3(25) 48"x60"



W14-1 30"x30"



W14-3 36"x48"x48"

GENERAL NOTES

- Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs."
- All warning signs shall be reflectorized unless otherwise specified.
- All warning signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
- Signs prefixed with "CW" on the plans shall indicate orange and black construction signs.

APPROVAL RECOMMENDED:
Erika Tanaka
TRAFFIC ENGINEER

3/17/12
DATE

APPROVED:
Shirley D. Davis
ASSISTANT CHIEF, ENGINEERING

3-20-12
DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 102 Approved 12-30-69	H.T.	3/20/12

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS WARNING SIGNS

NOT TO SCALE

SHEET No. 12 OF 17 SHEETS DT 102

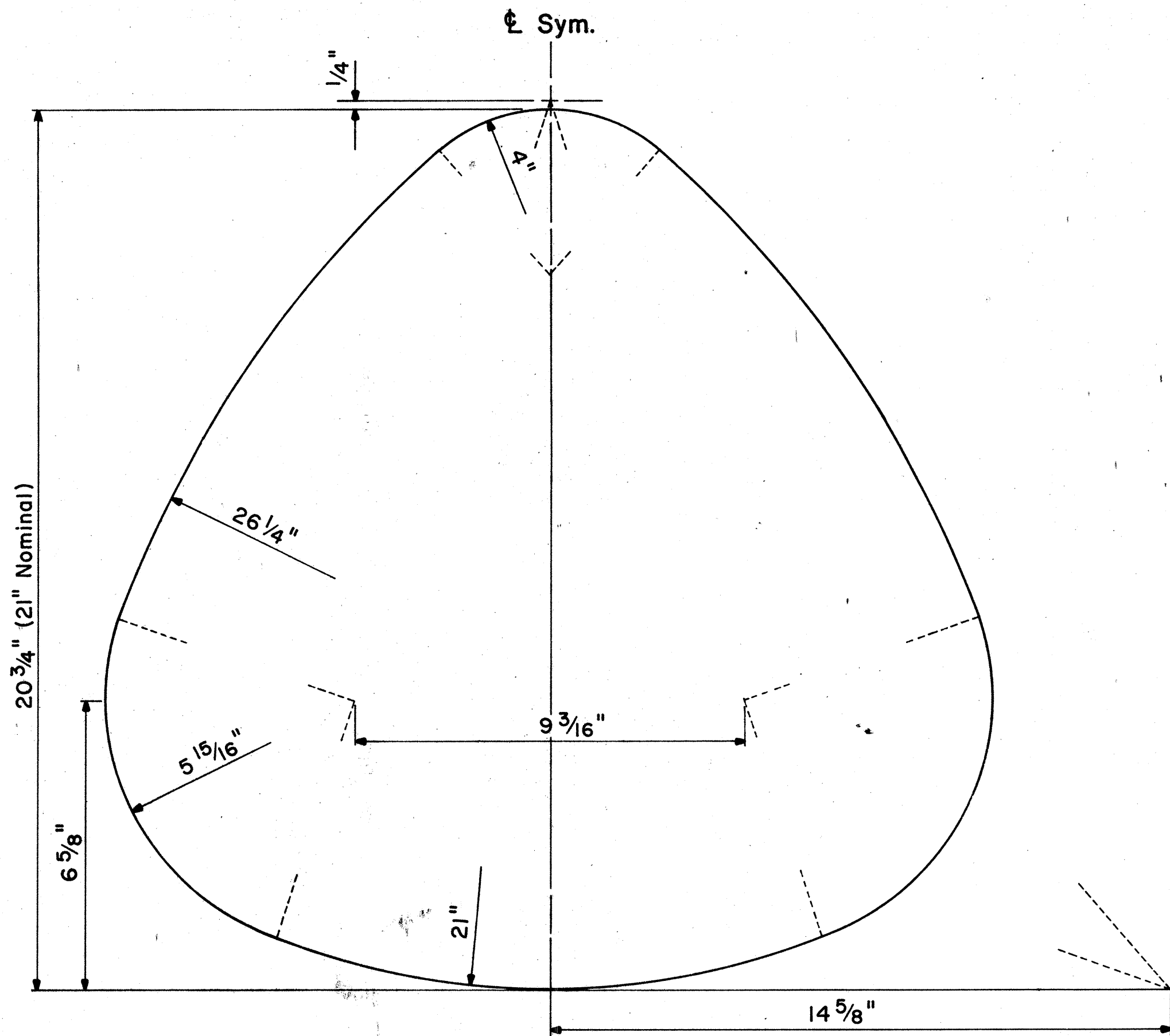
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-H2-1(15)-0	1974	43	54

GENERAL NOTES

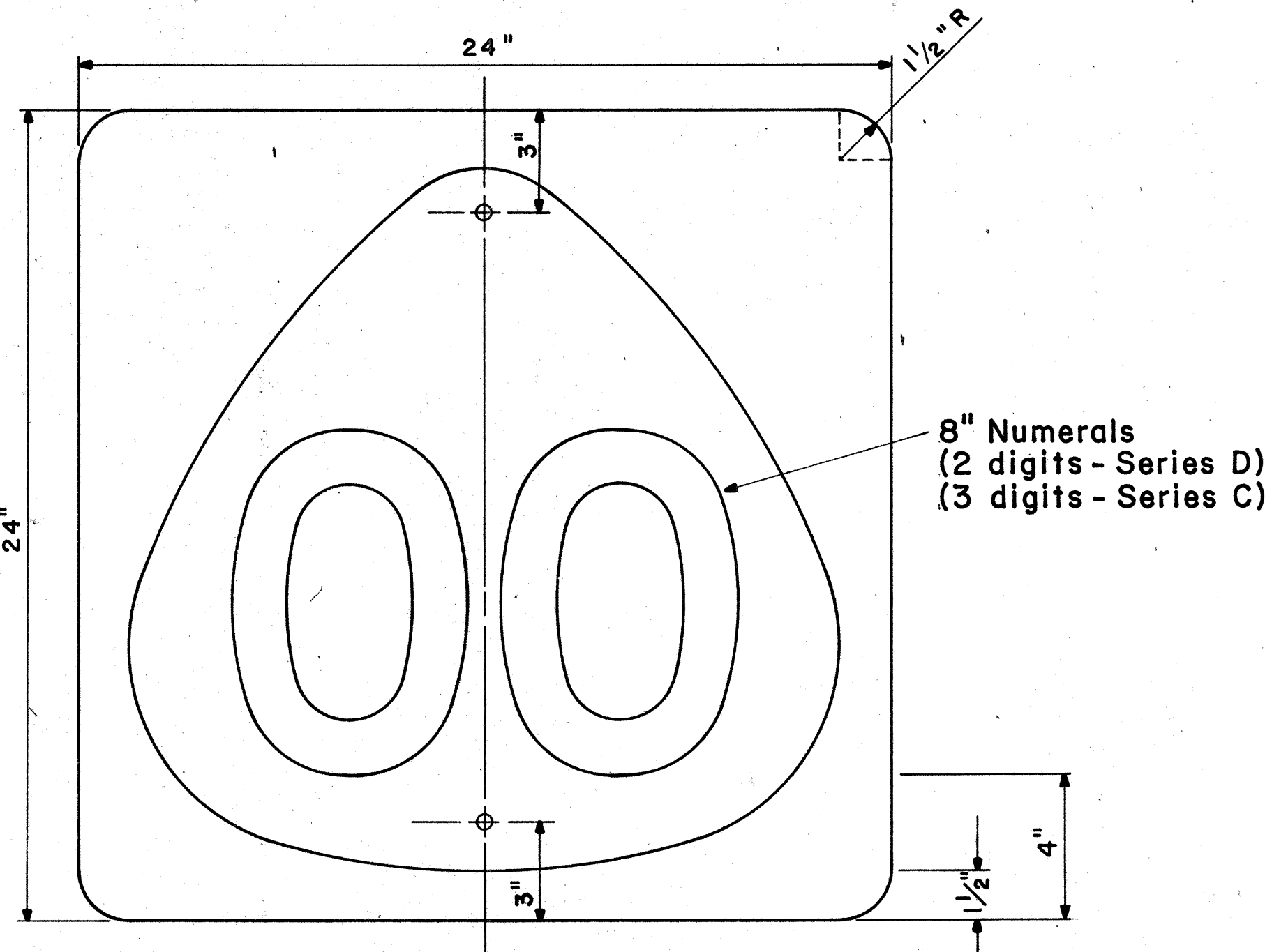
- Marker details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, "Standard Alphabets for Highway Signs," 1966 and "Standard Highway Signs."
- All markers shall be reflectorized unless otherwise specified.
- All markers shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in () indicates numerals to be inserted for marker message. (R) or (L) indicates right or left.
- Sign message of Cardinal Direction Marker (M3 series) shall be denoted by the following:

M3-1 : NORTH
 M3-2 : EAST
 M3-3 : SOUTH
 M3-4 : WEST
- Markers prefixed with "IM" on the plans shall have a white legend on a blue background.



STATE ROUTE MARKER DETAIL

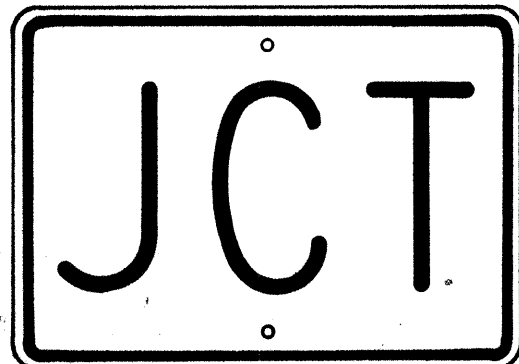
Not to Scale



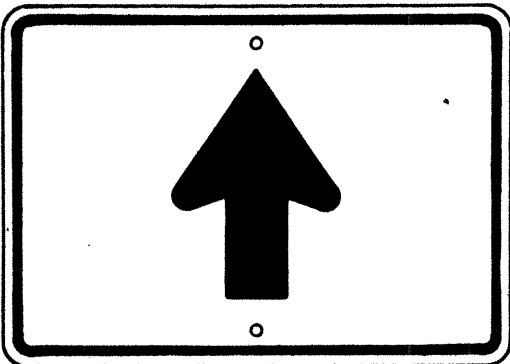
STATE ROUTE MARKER

M1-6 (00) 24" x 24"

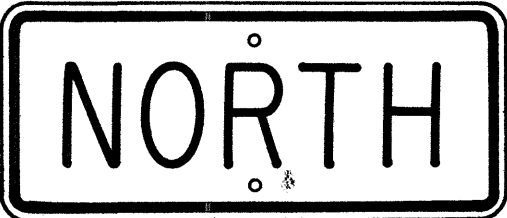
Scale: 1/4" = 1"



M2-1 21" x 15"



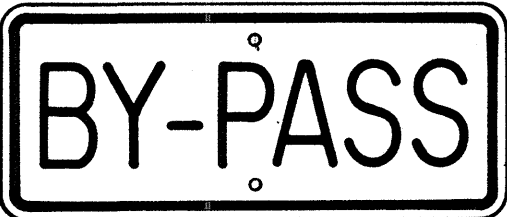
M6-3 21" x 15"



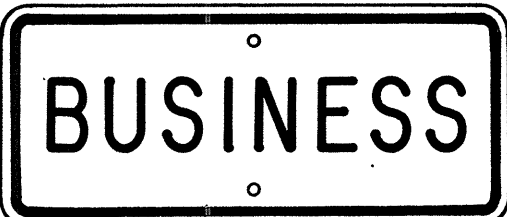
M3-1 24" x 12"
M3-1-A 36" x 18"



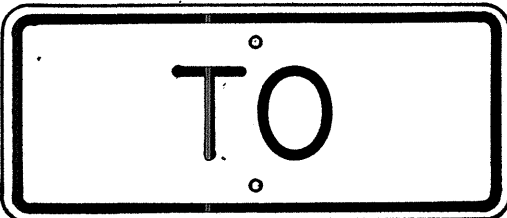
M4-1 24" x 12"



M4-2 24" x 12"



M4-3 24" x 12"



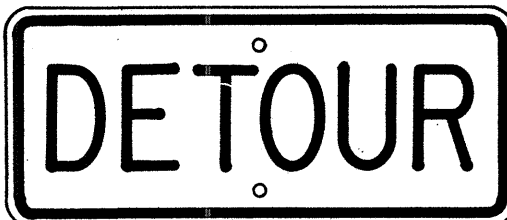
M4-5 24" x 12"



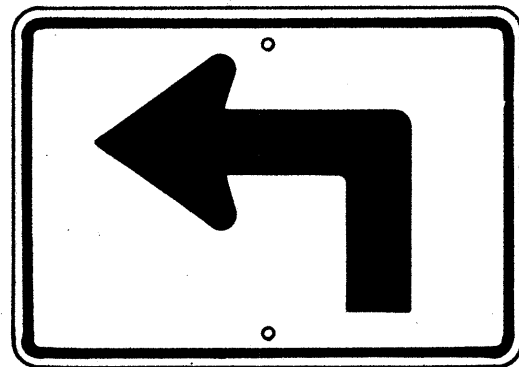
M4-6 24" x 12"



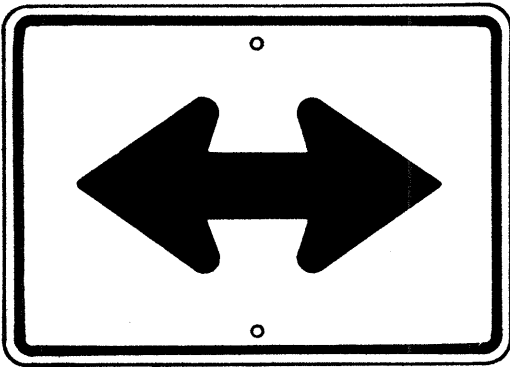
M4-7 24" x 12"



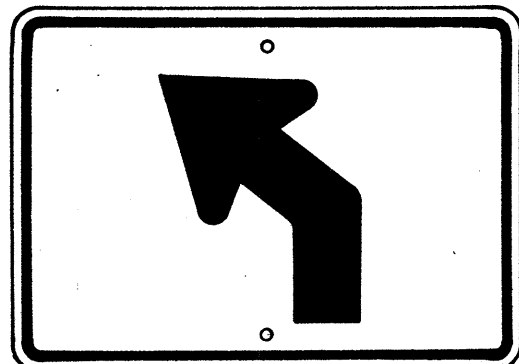
M4-8 24" x 12"



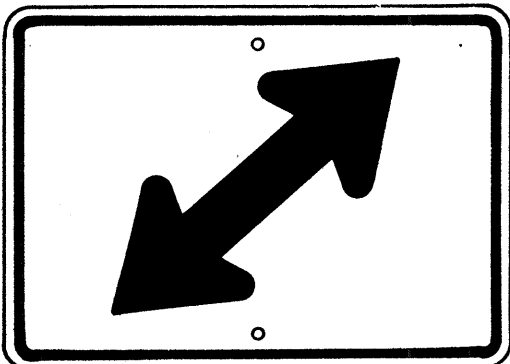
M5-1(L) 21" x 15"



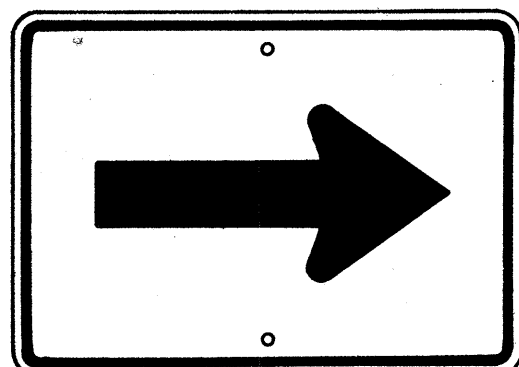
M6-4 21" x 15"



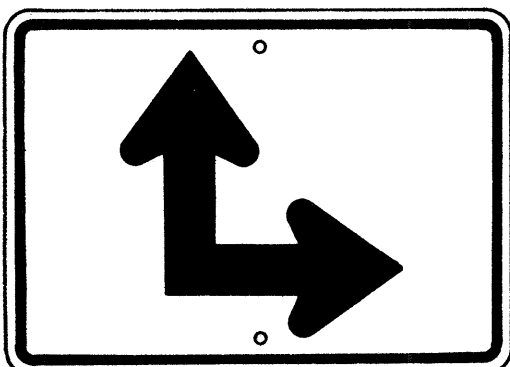
M5-2(L) 21" x 15"



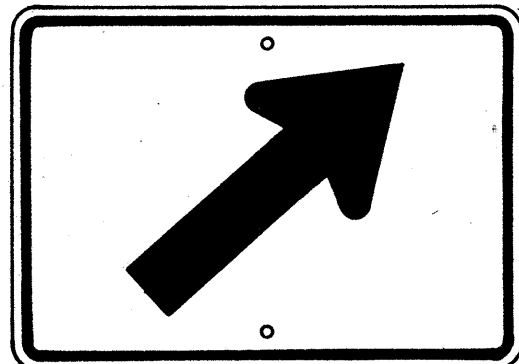
M6-5(R) 21" x 15"



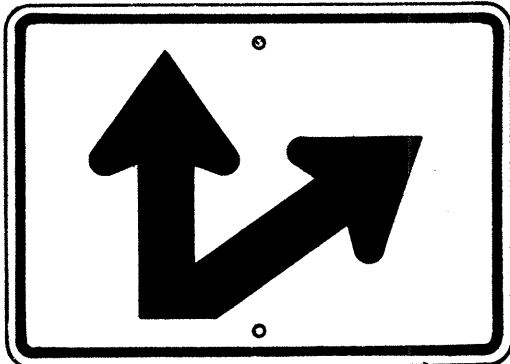
M6-1 21" x 15"



M6-6(R) 21" x 15"



M6-2(R) 21" x 15"



M6-7(R) 21" x 15"

AUXILIARY MARKERS

Not to Scale

APPROVAL RECOMMENDED:

Eichi Tanaka 6/6/72
TRAFFIC ENGINEER DATE

APPROVED:

Shirley S. S. S. 6-1-72
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 105 Approved 12-30-69	H.T.	6/1/72

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

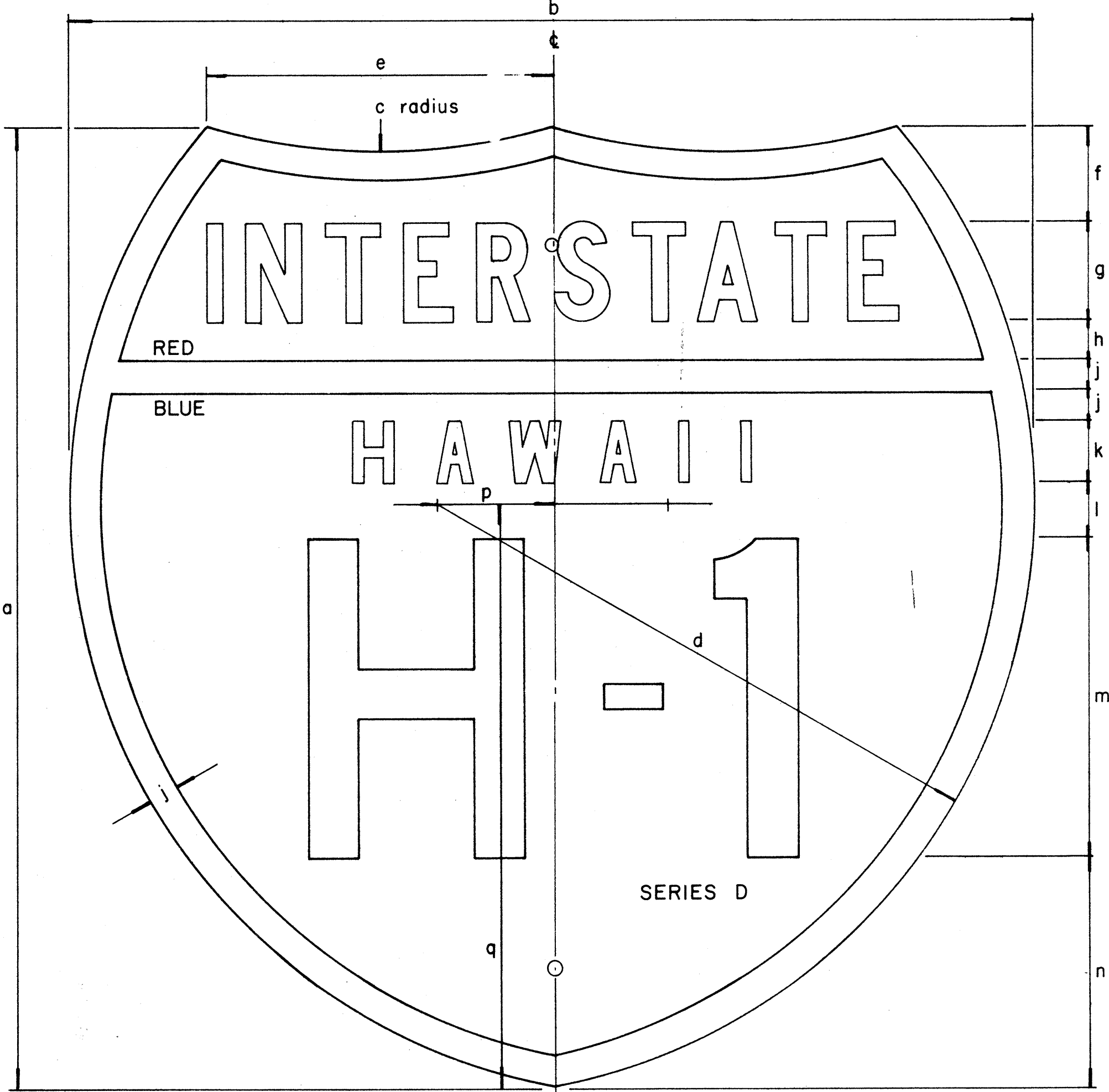
STANDARD DETAILS
STATE ROUTE MARKER
AND AUXILIARY MARKERS

Scale: As Shown

SHEET NO 13 OF 17 SHEETS DT 105

ORIGINAL	DATE
PLAN	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
NO.	

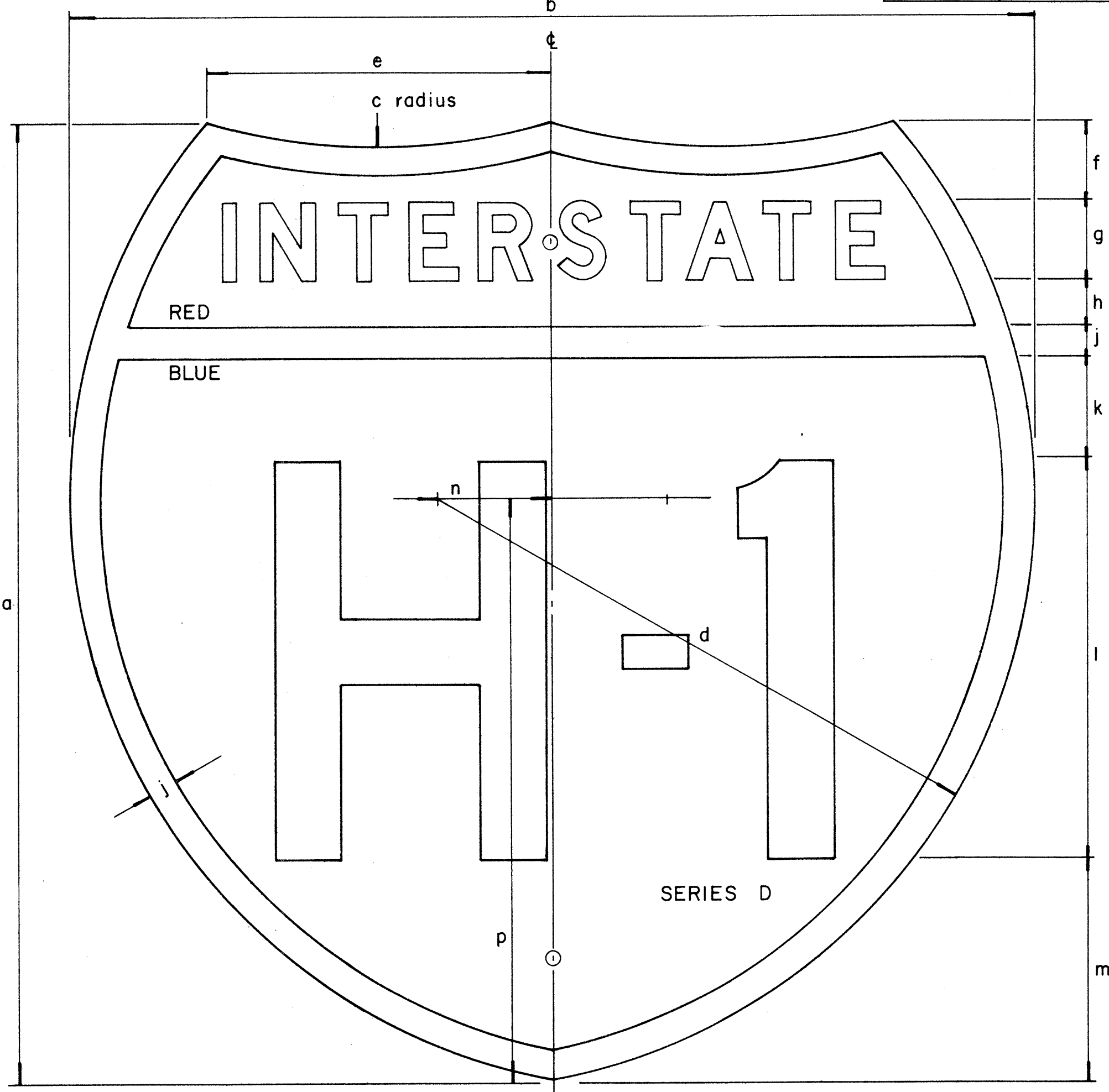
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H2-1(15)-0	1974	44	54



INTERSTATE ROUTE MARKER
IM-1()

INTERSTATE SHIELDS - INDEPENDENT USE

()	a	b	c	d	e	f	g	h	j	k	l	m	n	p	q
1	18	21	13 1/8	12 9/16	9 3/16	12 5/32	1 7/8 C	3/4	9/16	1 1/8 D	1 1/32	6	4 5/16	2 1/16	12 7/16
2	24	24	15	14 7/8	8 5/8	2 3/8	2 1/2 C	1	3/4	1 1/2 D	1 3/8	8	5 3/4	2 7/8	14 5/8
3	36	36	22 1/2	22 5/16	12 15/16	3 9/16	3 3/4 C	1 1/2	1 1/8	2 1/4 D	2 1/16	12	8 5/8	4 5/16	21 15/16



INTERSTATE ROUTE MARKER
IM-2()

INTERSTATE SHIELDS ON GUIDE SIGNS

()	a	b	c	d	e	f	g	h	j	k	l	m	n	p
2	24	24	15	14 7/8	8 5/8	2	2 D	1 3/16	3/4	2 9/16	10	5 1/2	2 7/8	14 5/8
3	36	36	22 1/2	22 5/16	12 15/16	3 7/16	3 C	1 5/16	1 1/8	3 1/8	15	9	4 5/16	21 15/16
4	48	48	30	29 3/4	17 1/4	4 3/4	5 C	2	1 1/2	4	18	12 3/4	5 3/4	29 1/4

GENERAL NOTES

- The shape, dimensions, symbols, wording, lettering, color and reflectorizing of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June, 1961 and the BPR manual "Standard Highway Signs," dated September, 1961, unless otherwise specified.
- All letters and figures shall conform to the manual "Standard Alphabets for Highway Signs," Dept. of Commerce, Bureau of Public Roads, 1966
- All markers shall be reflectorized unless otherwise specified.
- All markers shall have 3/8" bolt holes drilled at appropriate locations unless otherwise specified.
- The Interstate Route Marker shall be a cut-out shield, in a red, white and blue design as shown on the plans.

APPROVAL RECOMMENDED:

Eiichi Tanaka
TRAFFIC ENGINEER 12/29/69
DATE

APPROVED:

Shunji S. Sato
ASSISTANT CHIEF, ENGINEERING 12-29-69
DATE

NO.	REVISION	APPROVED BY	DATE

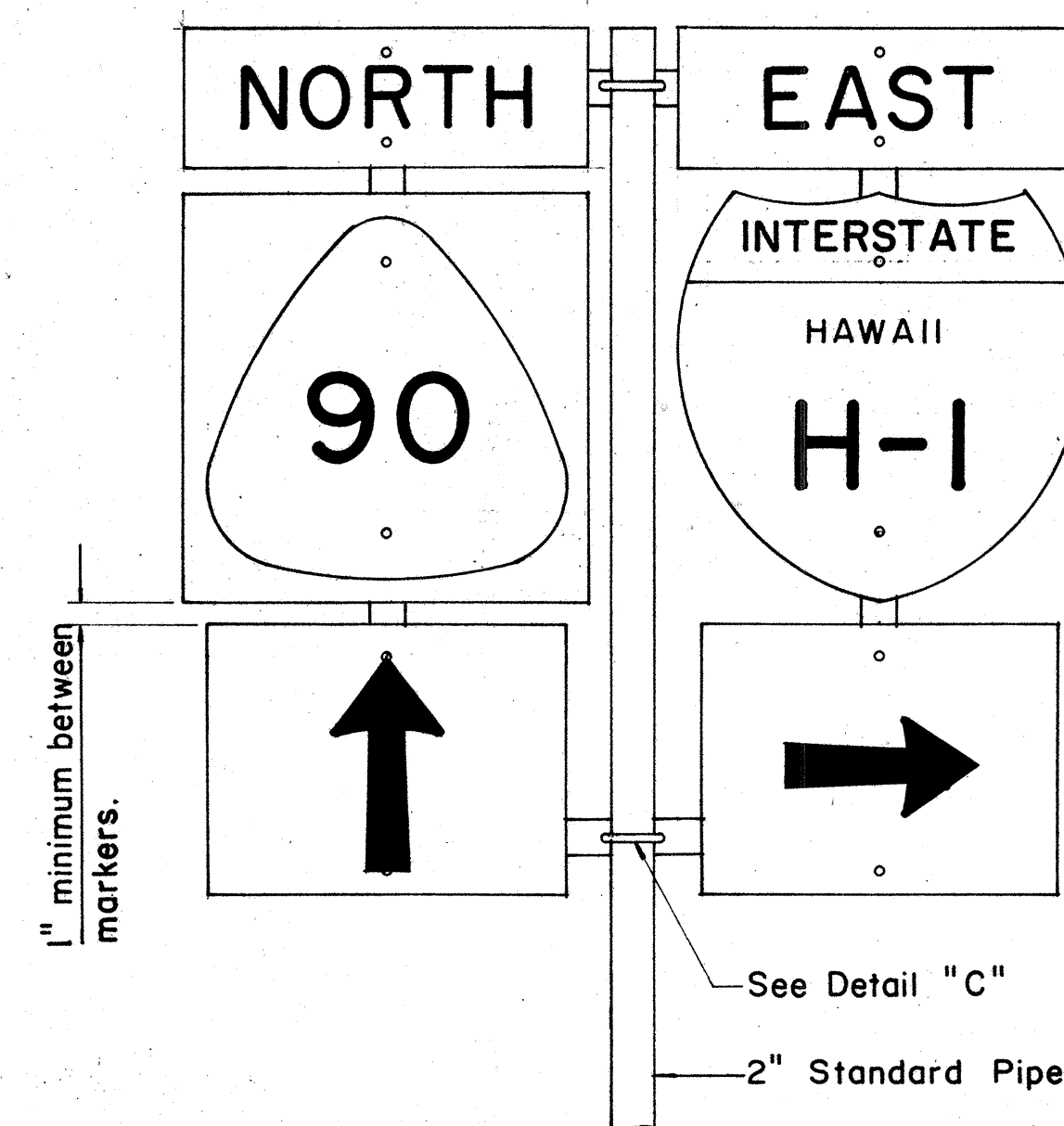
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
INTERSTATE ROUTE MARKERS

SHEET No. 14 OF 17 SHEETS DT 106

DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
ORIGINAL	
NOTE BOOK	
No.	

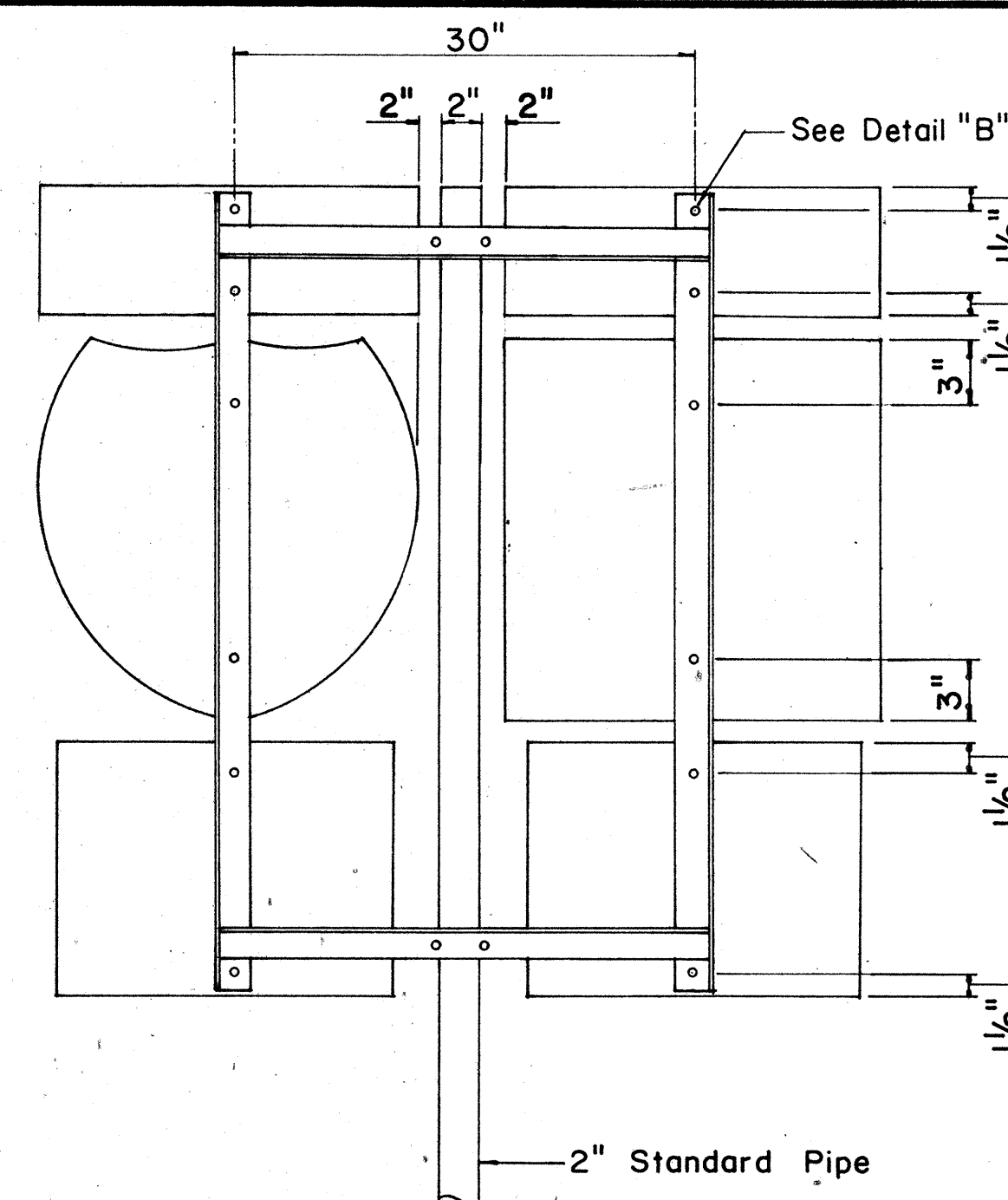
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	2-HL-1(10)0	1974	45	54



FRONT ELEVATION

TYPE "B" ASSEMBLY

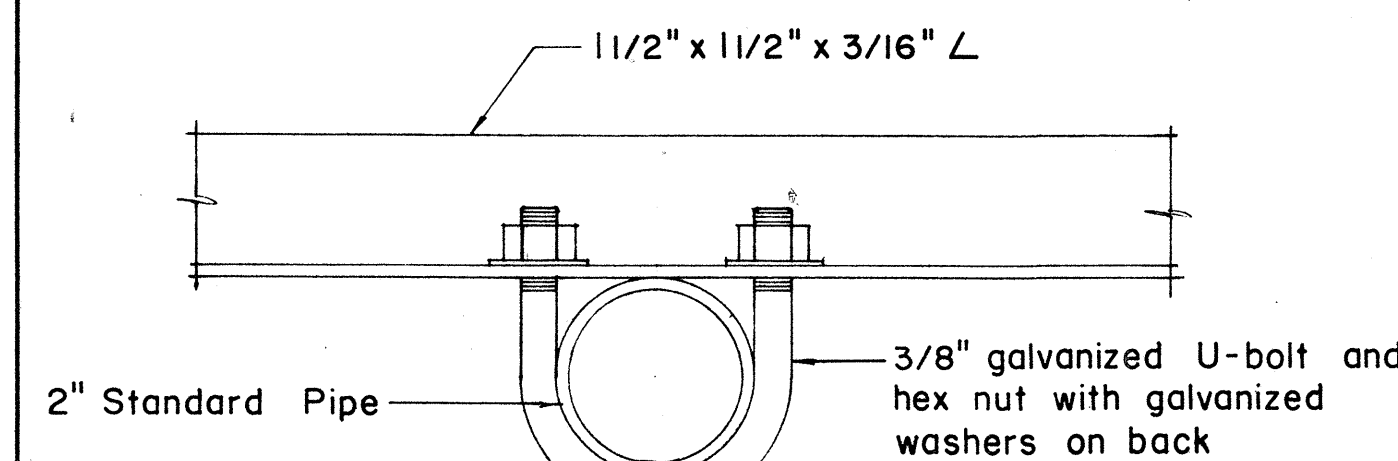
Not to Scale



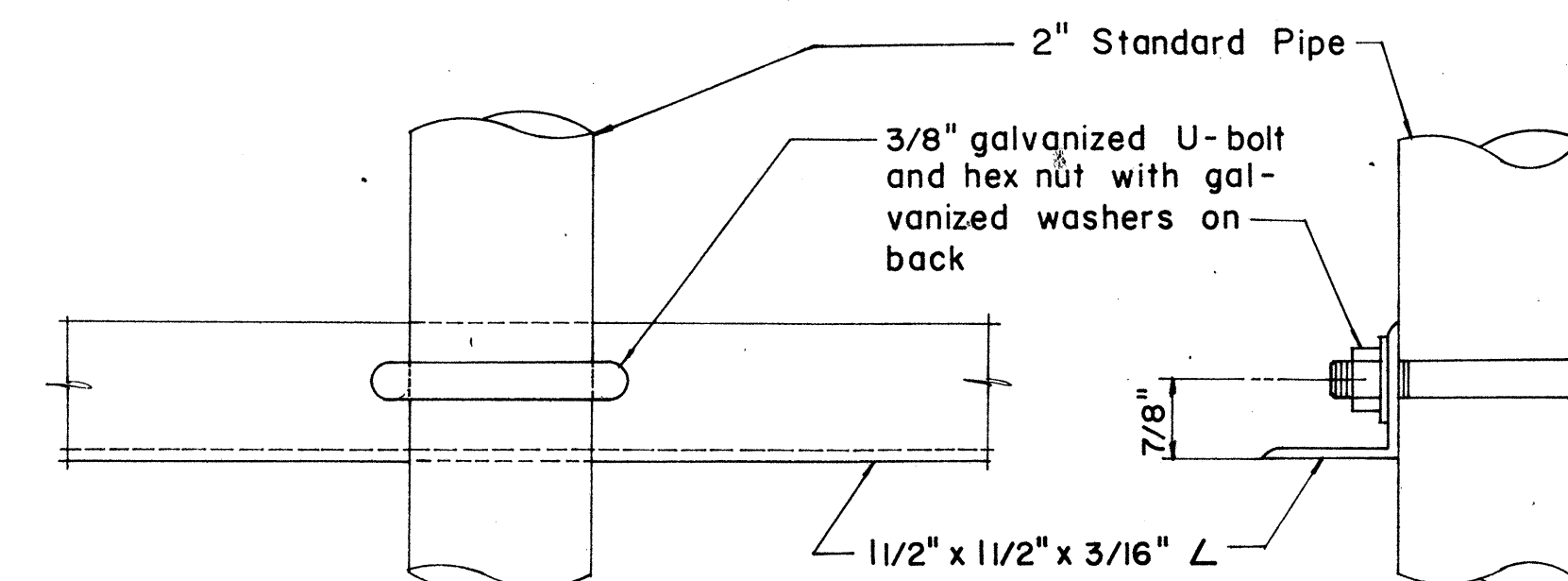
REAR ELEVATION

NOTE:

1. Minimum clearance between markers shall be one inch. (Larger clearances shall be in multiples of one inch.)
2. Pipe post for Type "A" & Type "B" Assembly shall be 2" Standard Pipe.



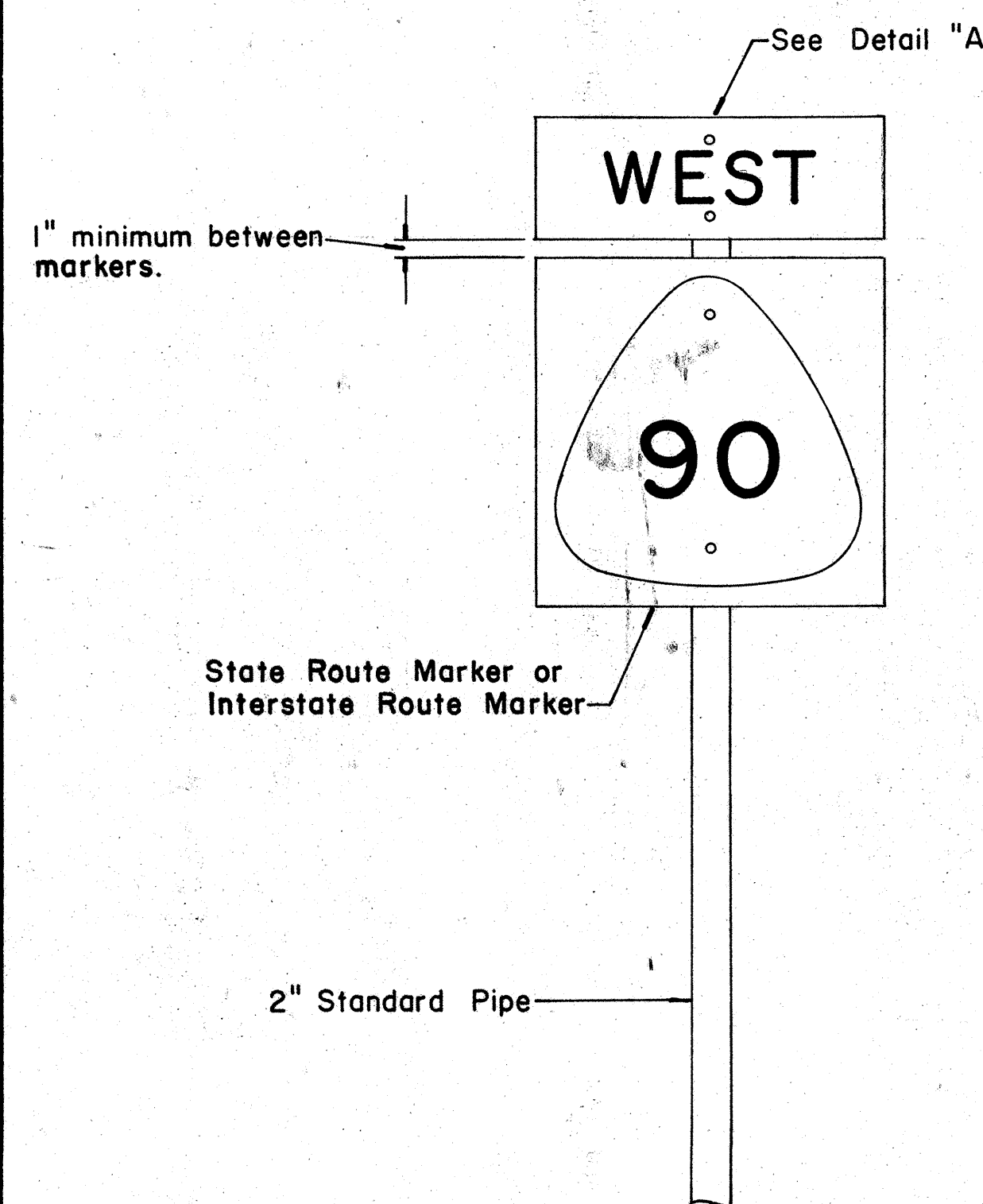
PLAN



FRONT ELEVATION

SIDE ELEVATION

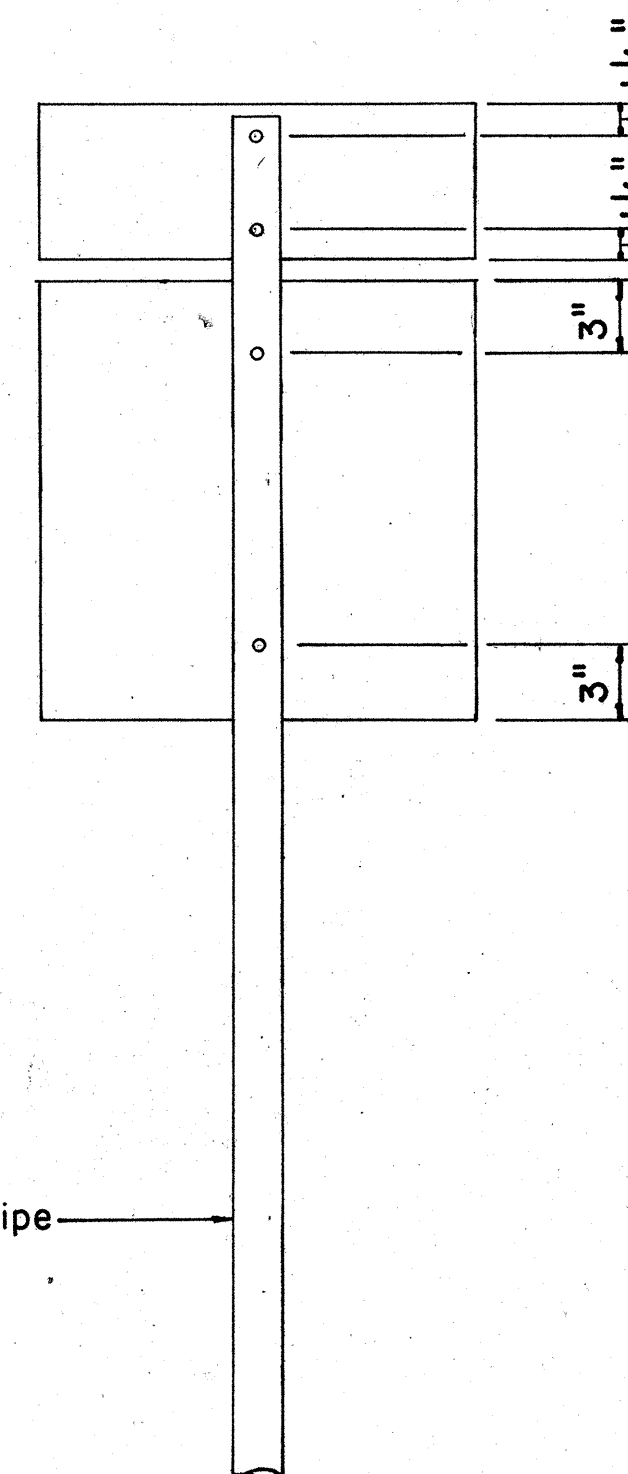
DETAIL "C"



FRONT ELEVATION

TYPE "A" ASSEMBLY

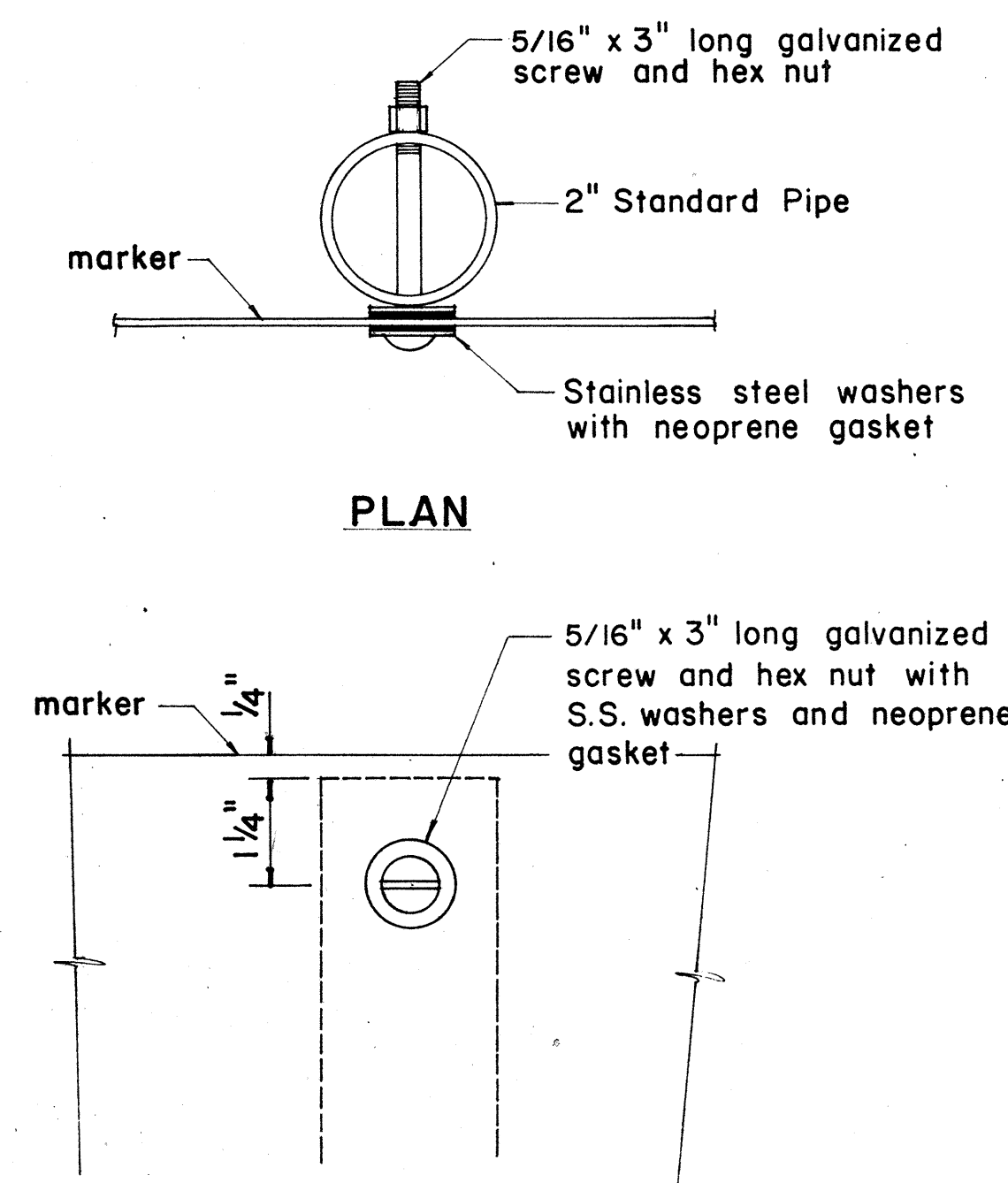
Not to Scale



REAR ELEVATION

NOTE:

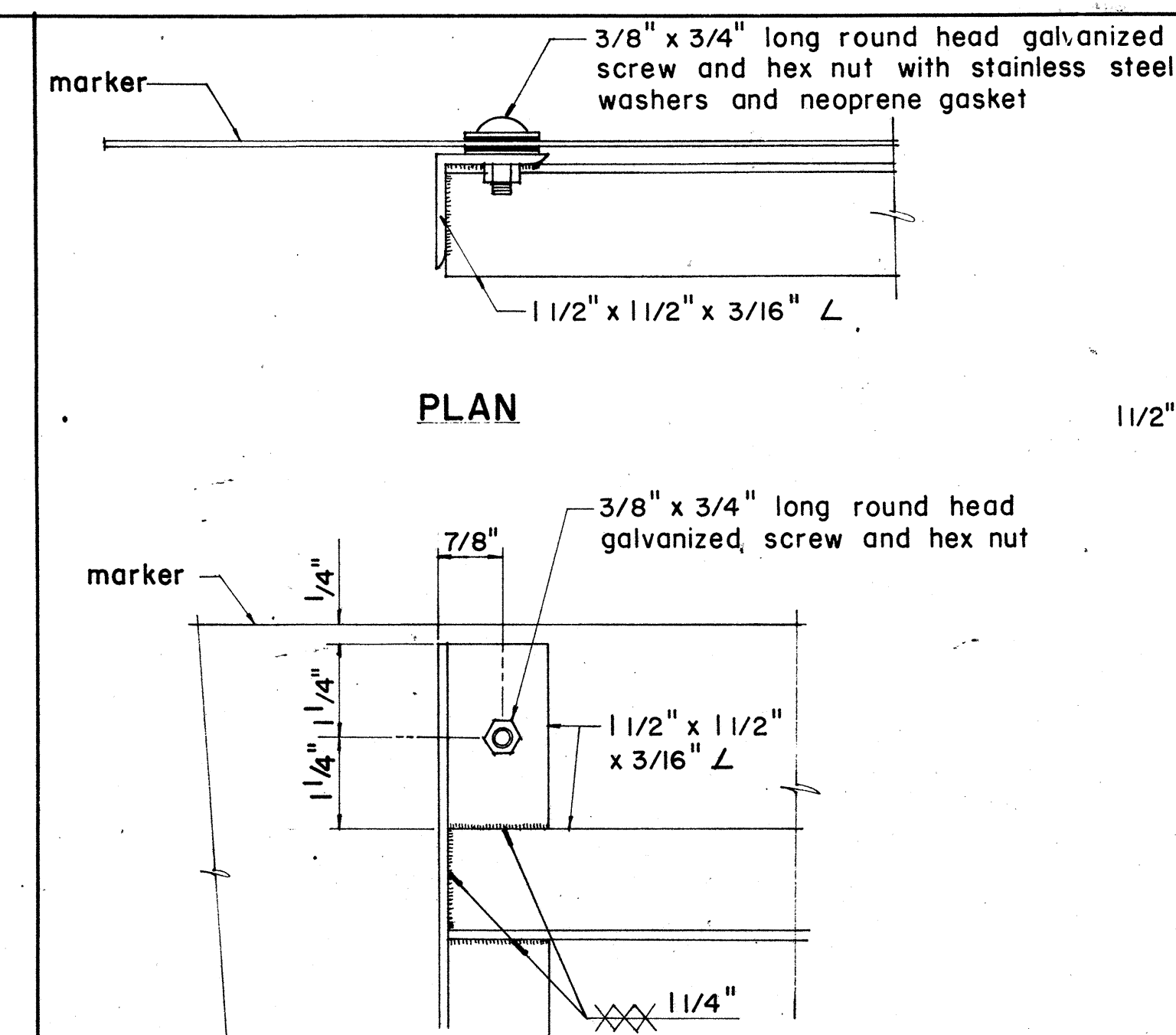
For height and lateral location of Route Marker Assembly, see plan sheet DT 100.



PLAN

FRONT ELEVATION

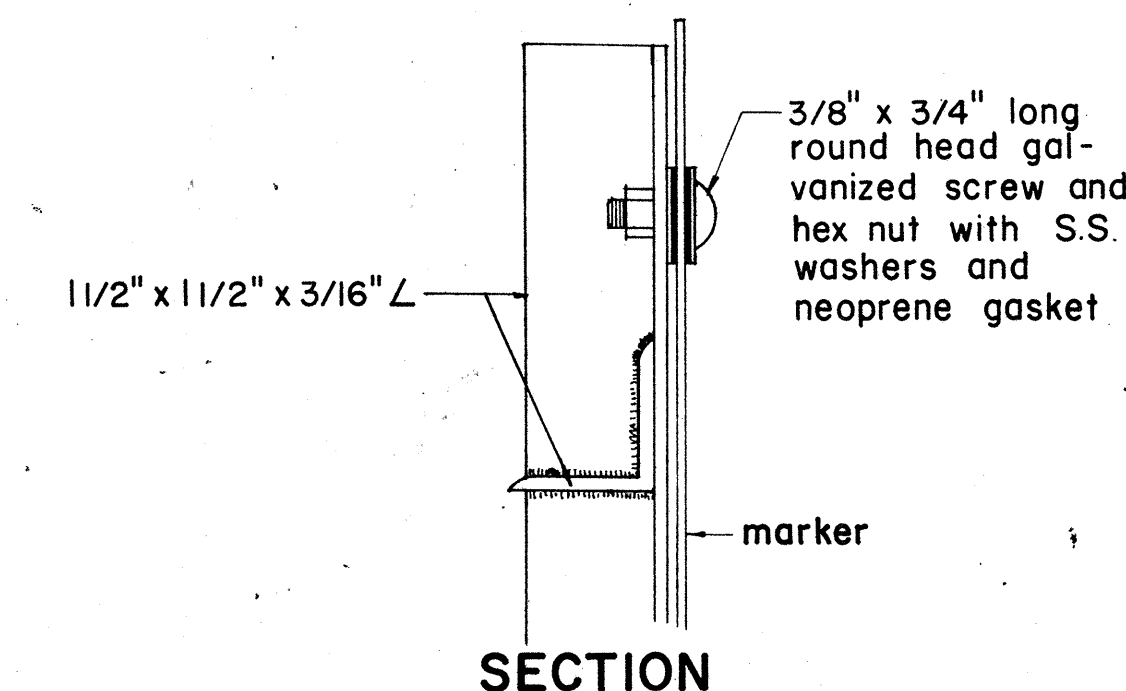
DETAIL "A"



PLAN

ELEVATION

DETAIL "B"



SECTION

APPROVAL RECOMMENDED:
Eugene Tanaka
 TRAFFIC ENGINEER

12/29/69
 DATE

APPROVED:
John A. Saito
 ASSISTANT CHIEF, ENGINEERING

12-30-69
 DATE

NO.	REVISION	APPROVED BY	DATE
1	Revisions to Route Marker Assemblies.	H.T.	6/1/72

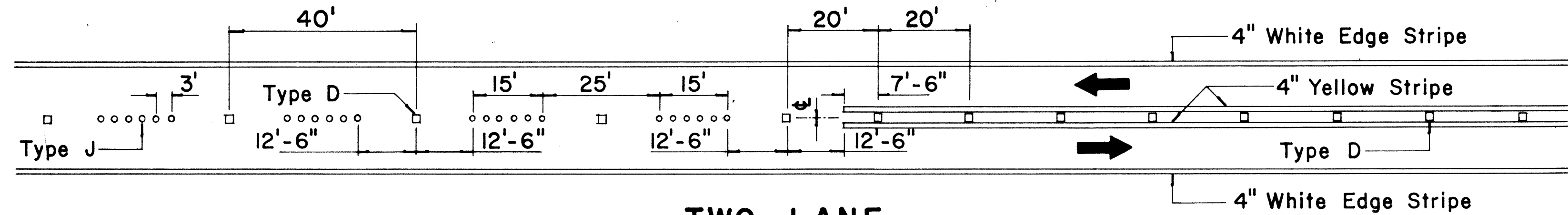
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS ROUTE MARKER ASSEMBLIES

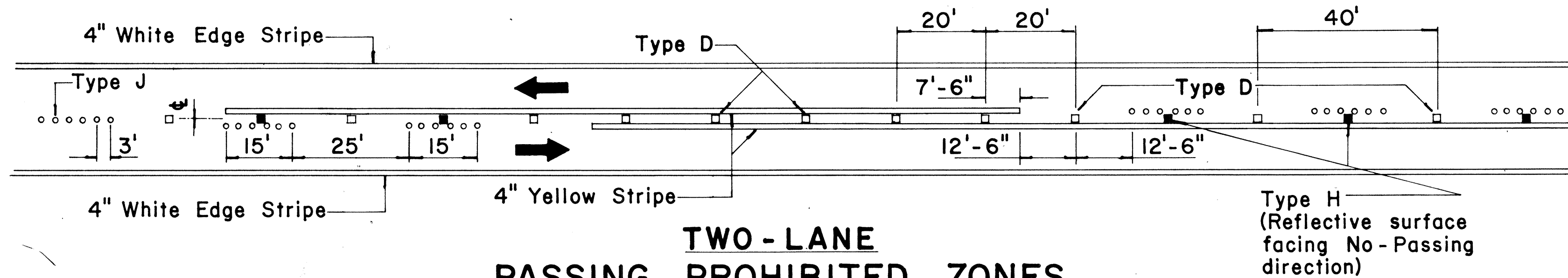
Scale: As Shown

SHEET No. 15 OF 17 SHEETS DT 107

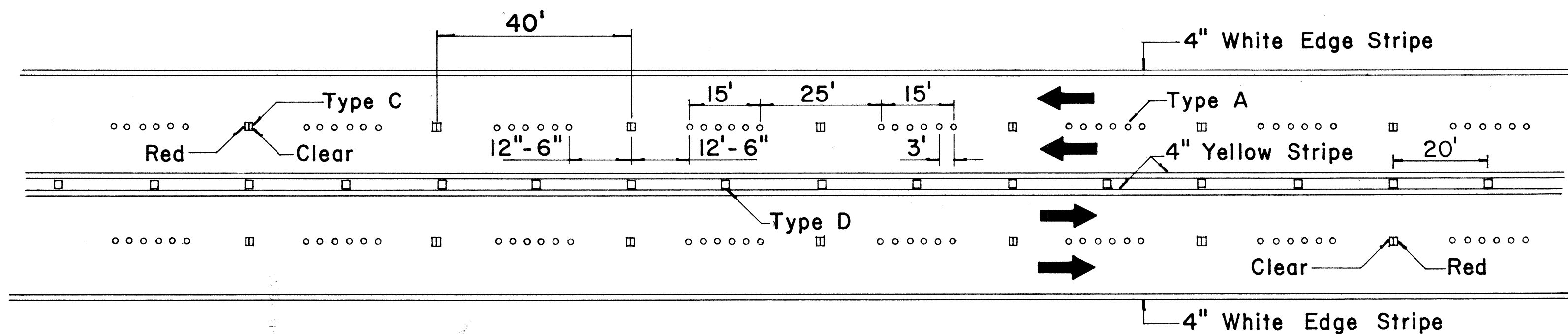
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H10-1(16):0	1974	46	54



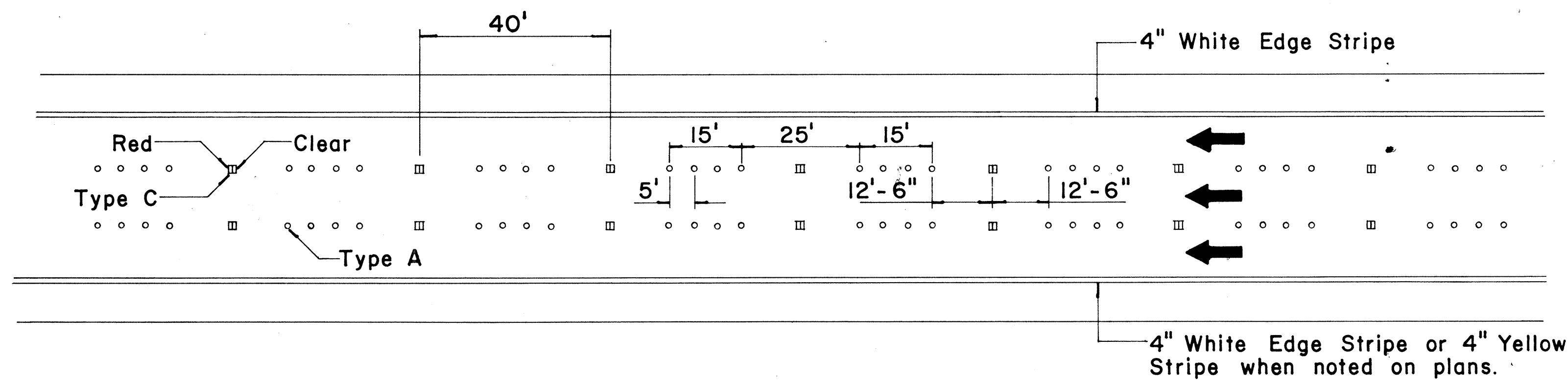
**TWO - LANE
PASSING PERMITTED AND PASSING PROHIBITED**



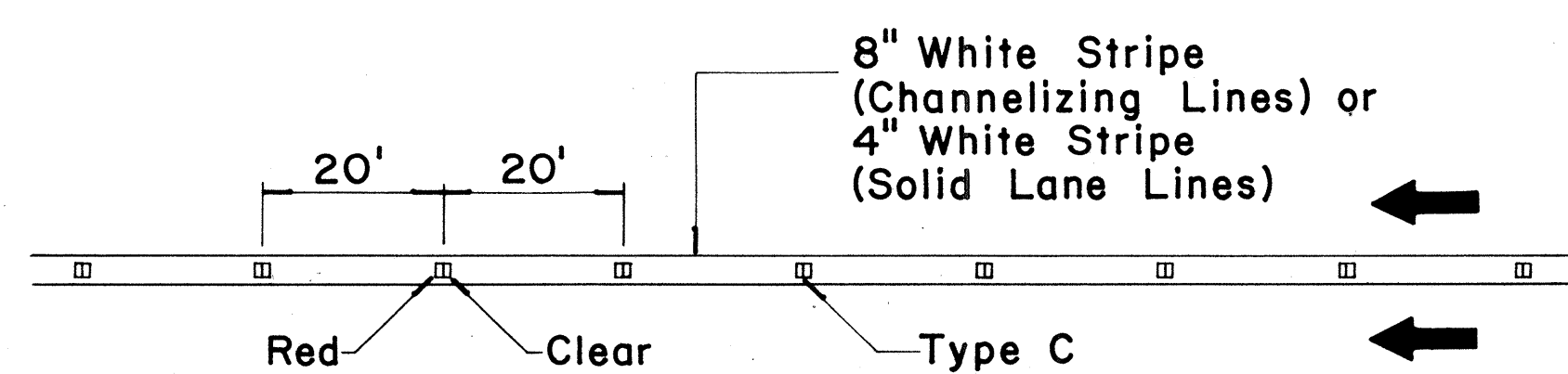
**TWO - LANE
PASSING PROHIBITED ZONES**



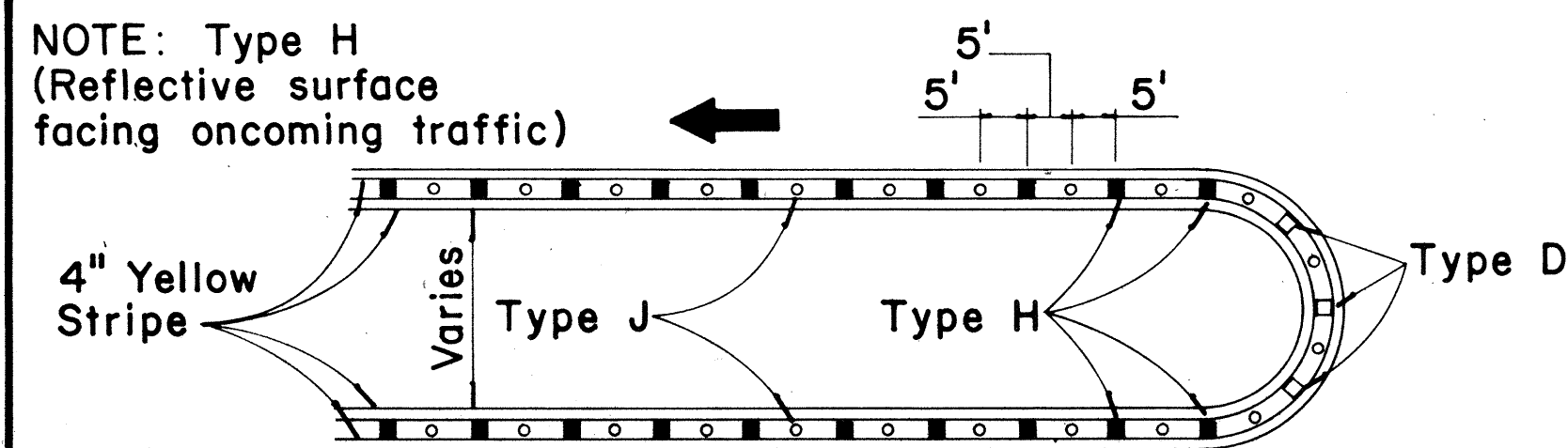
**MULTI - LANE
LANE LINES AND CENTER LINE**



FREEWAY LANE LINES



**CHANNELIZING LINES
OR SOLID LANE LINES**



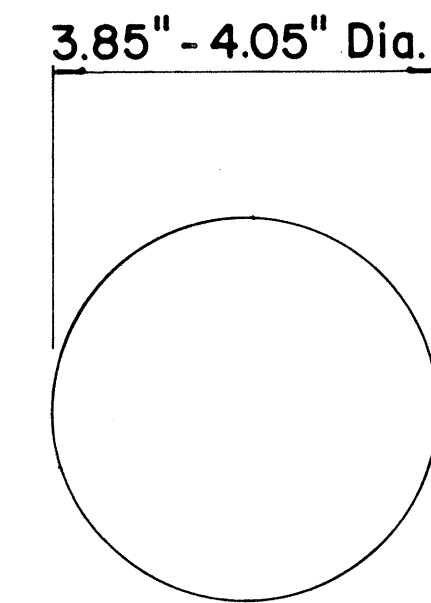
MEDIAN NOSE DELINEATION

TWO - LANE

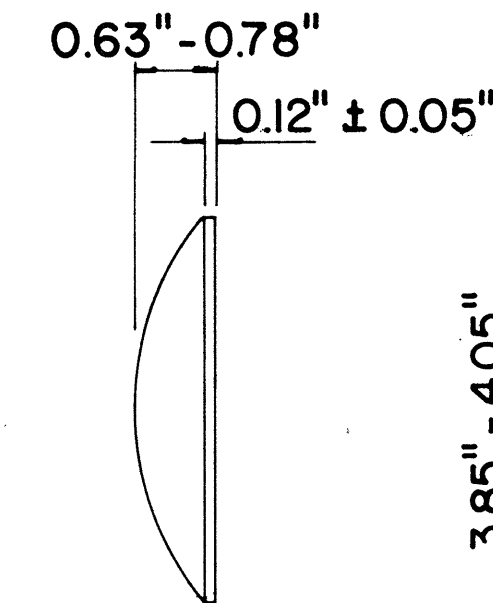
MULTI - LANE

FREEWAY

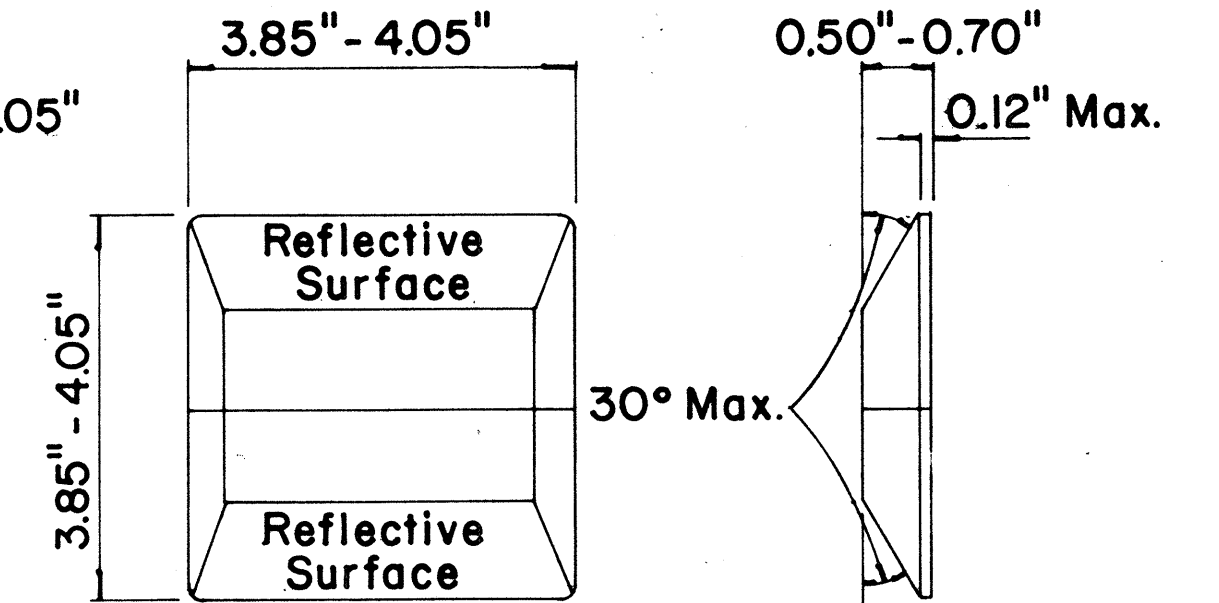
MISCELLANEOUS



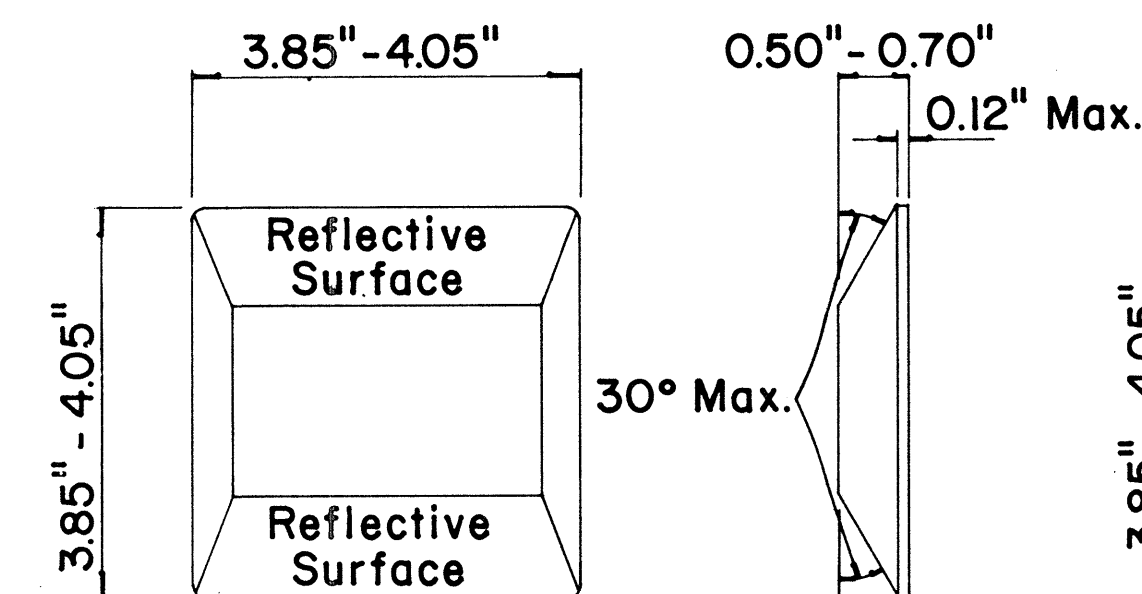
**TYPE A
NON - REFLECTIVE WHITE MARKER**



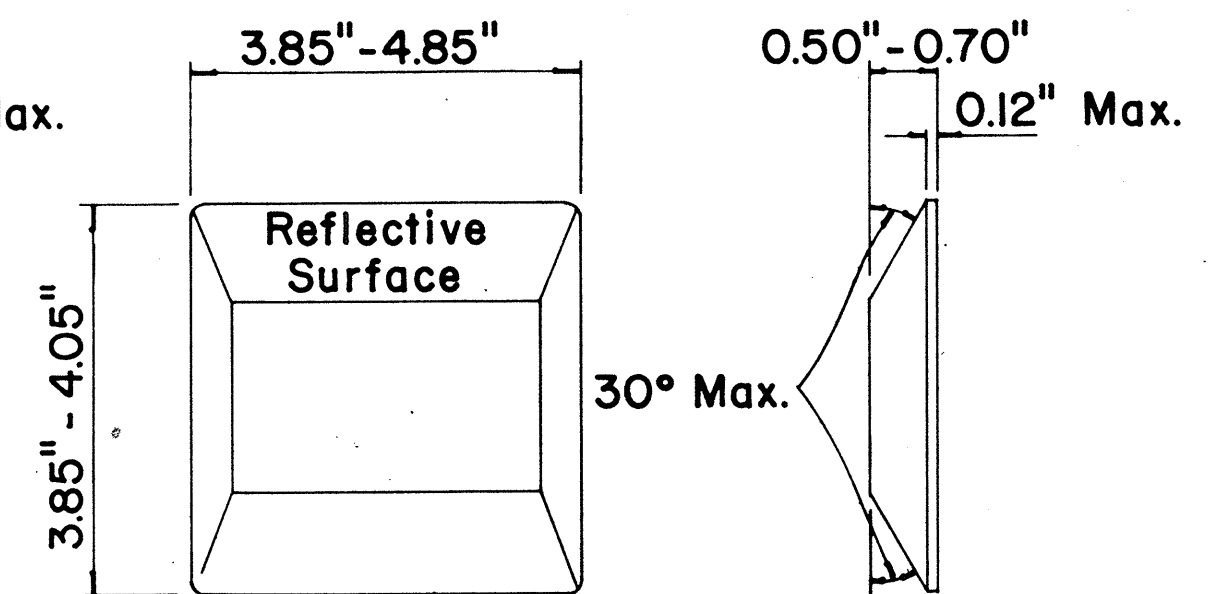
**TYPE J
NON - REFLECTIVE YELLOW MARKER**



**TYPE C
RED - CLEAR REFLECTIVE MARKER**



**TYPE D
TWO - WAY YELLOW REFLECTIVE MARKER**



**TYPE H
ONE - WAY YELLOW REFLECTIVE MARKER**

GENERAL NOTES

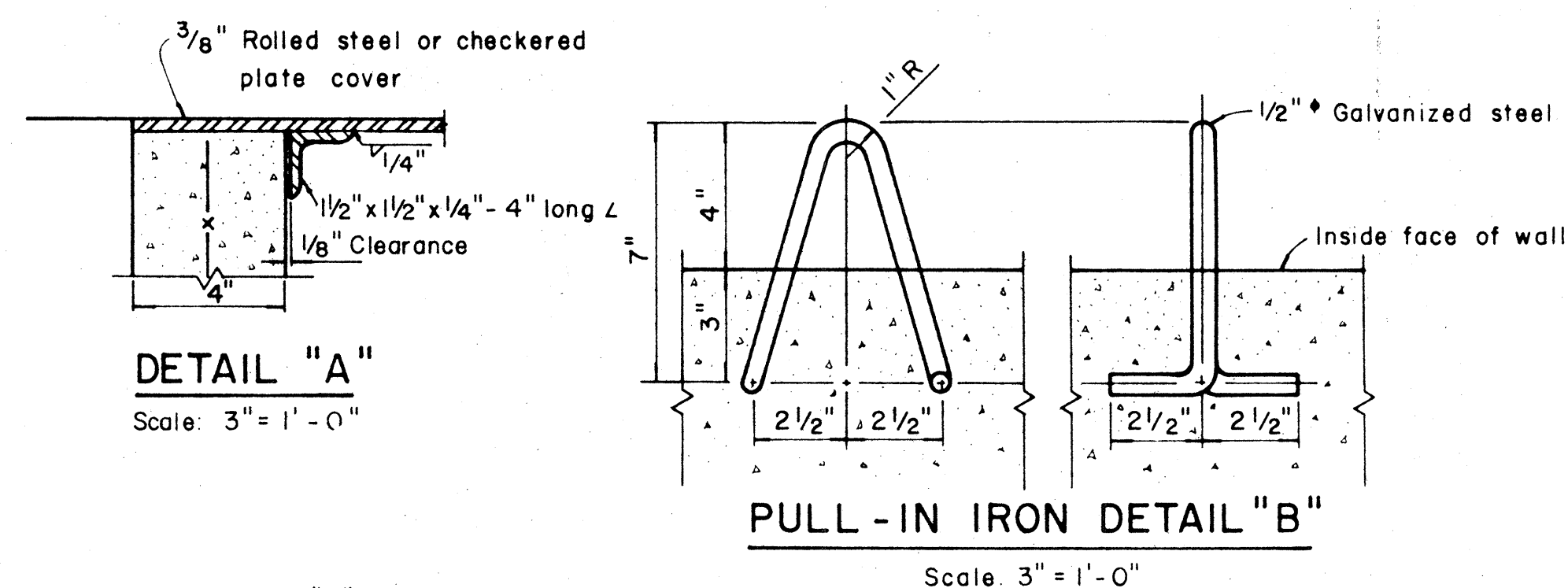
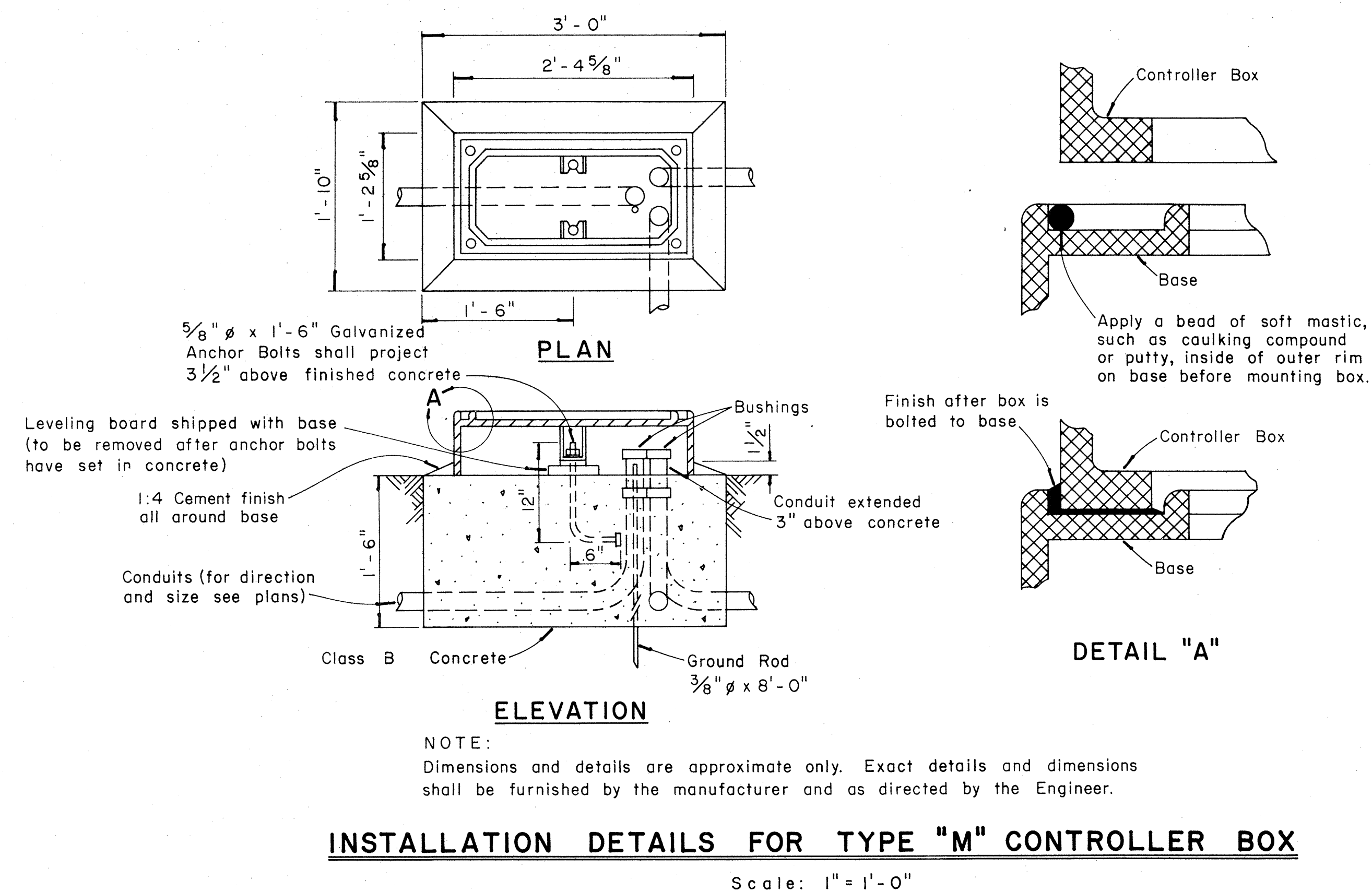
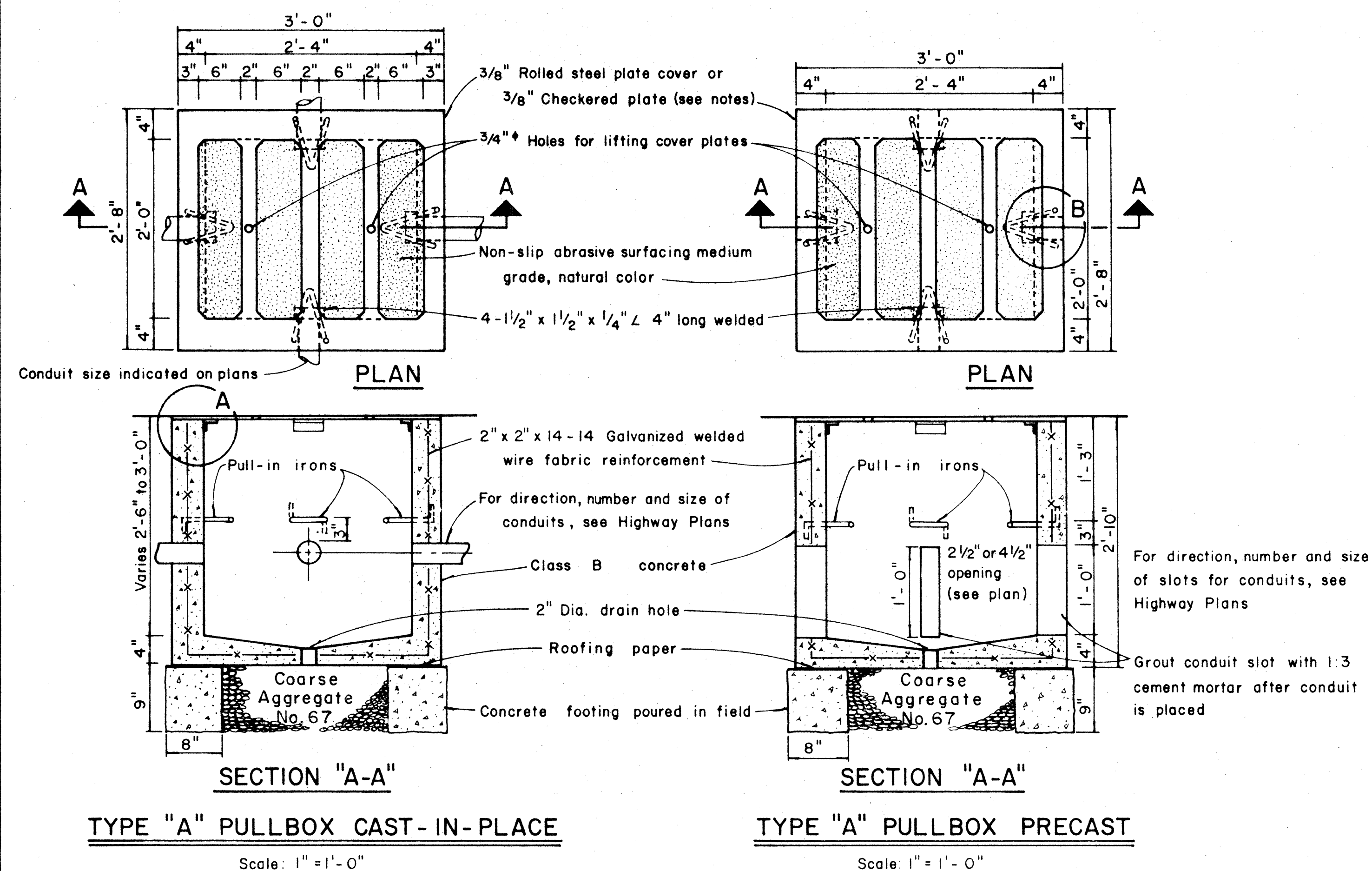
1. Painted stripes to be done by Contractor unless otherwise specified.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
RAISED PAVEMENT MARKERS

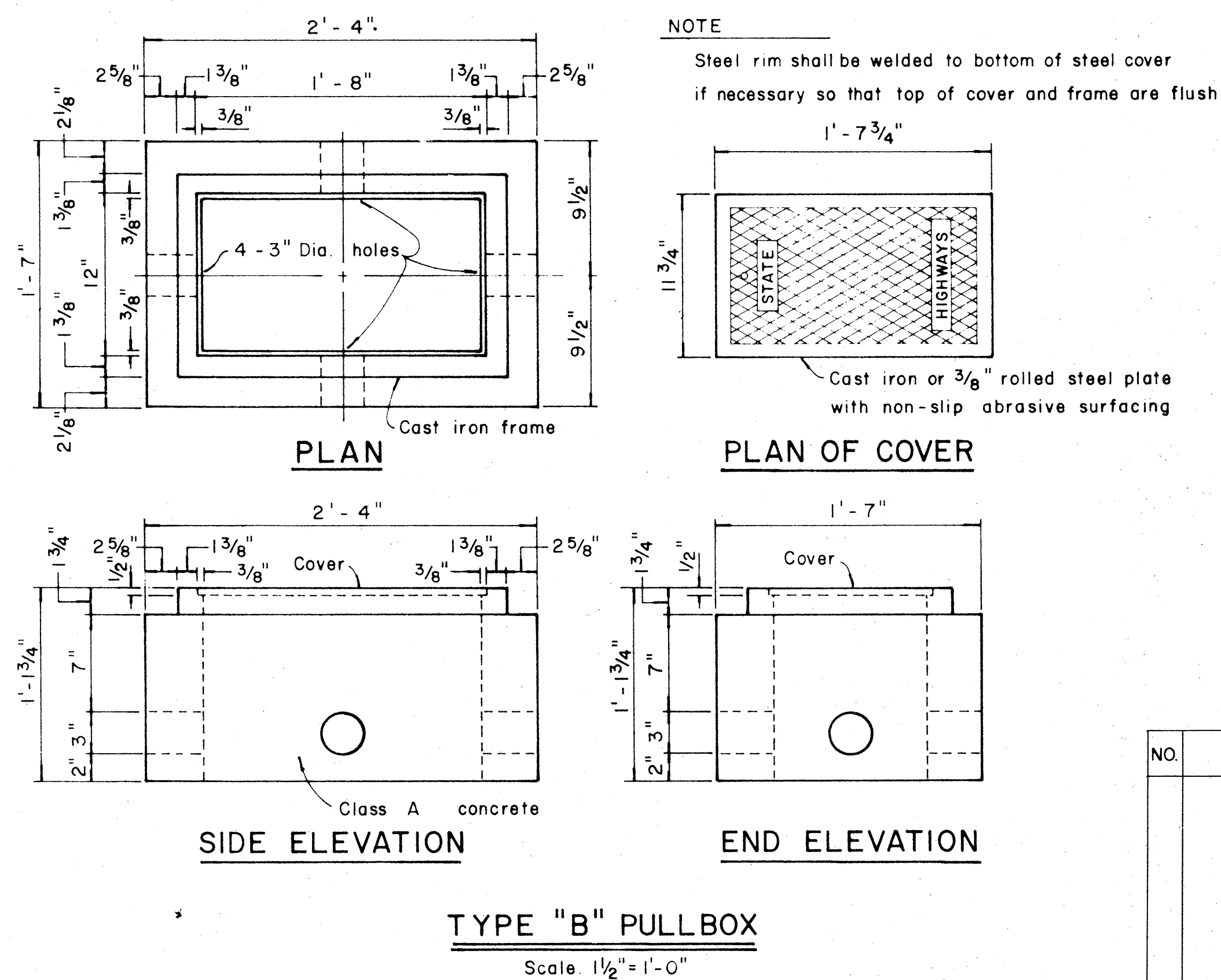
Not to Scale
October 1971
SHEET No. 16 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H2-1(18)0	1974	47	54



- NOTES: (FOR TYPE "A" PULLBOX)

1. $\frac{3}{8}$ " 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. $\frac{3}{8}$ " 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 pull irons opposite each other for lifting purposes.



NOTE

Steel rim shall be welded to bottom of steel cover if necessary so that top of cover and frame are flush

Cast iron or 3/8" rolled steel plate
with non-slip abrasive surfacing

APPROVAL RECOMMENDED:
Erich Taraka 12/29/69
TRAFFIC ENGINEER DATE

APPROVED: _____
ASSISTANT CHIEF, ENGINEERING

DATE 12-30-69

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
PULLBOXES

AND
TYPE "M" CONTROLLER BOX

Scale as noted Date:

SHEET No. 17 OF 17 SHEETS DT 402