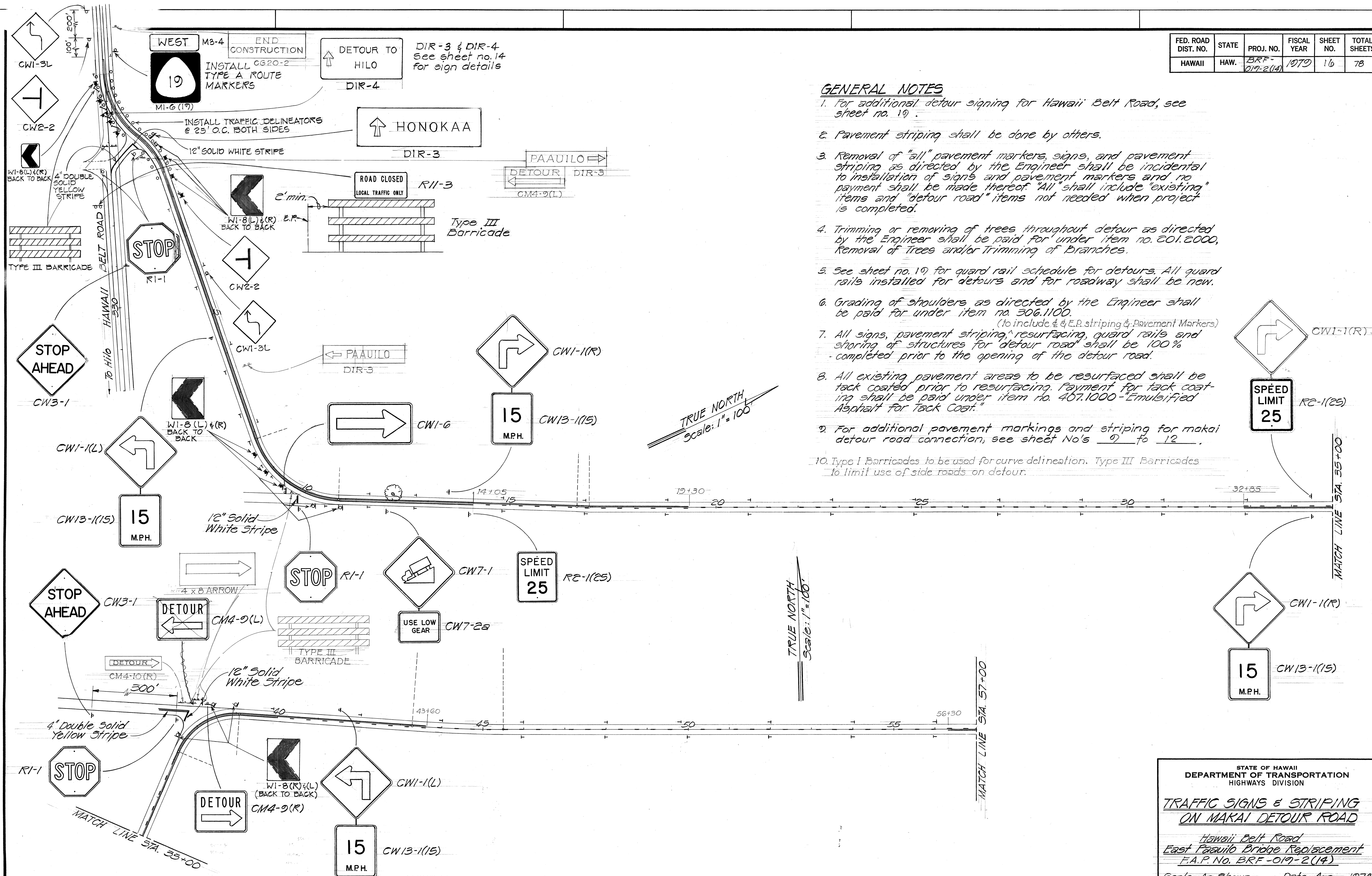


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BRF-019-2(14)	1979	16	78

GENERAL NOTES

- For additional detour signing for Hawaii Belt Road, see sheet no. 19.
- Pavement striping shall be done by others.
- Removal of "all" pavement markers, signs, and pavement striping as directed by the Engineer shall be incidental to installation of signs and pavement markers and no payment shall be made thereof. "All" shall include "existing" items and "detour road" items not needed when project is completed.
- Trimming or removing of trees throughout detour as directed by the Engineer shall be paid for under item no. 201.2000, Removal of Trees and/or Trimming of Branches.
- See sheet no. 19 for guard rail schedule for detours. All guard rails installed for detours and for roadway shall be new.
- Grading of shoulders as directed by the Engineer shall be paid for under item no. 306.1100.
(to include 4' & E.B. striping & Pavement Markers)
- All signs, pavement striping, resurfacing, guard rails and shoring of structures for detour road shall be 100% completed prior to the opening of the detour road.
- All existing pavement areas to be resurfaced shall be tack coated prior to resurfacing. Payment for tack coating shall be paid under item no. 407.1000 - Emulsified Asphalt for Tack Coat.
- For additional pavement markings and striping for makai detour road connection, see sheet No's 9 to 12.
- Type I Barricades to be used for curve delineation. Type III Barricades to limit use of side roads on detour.



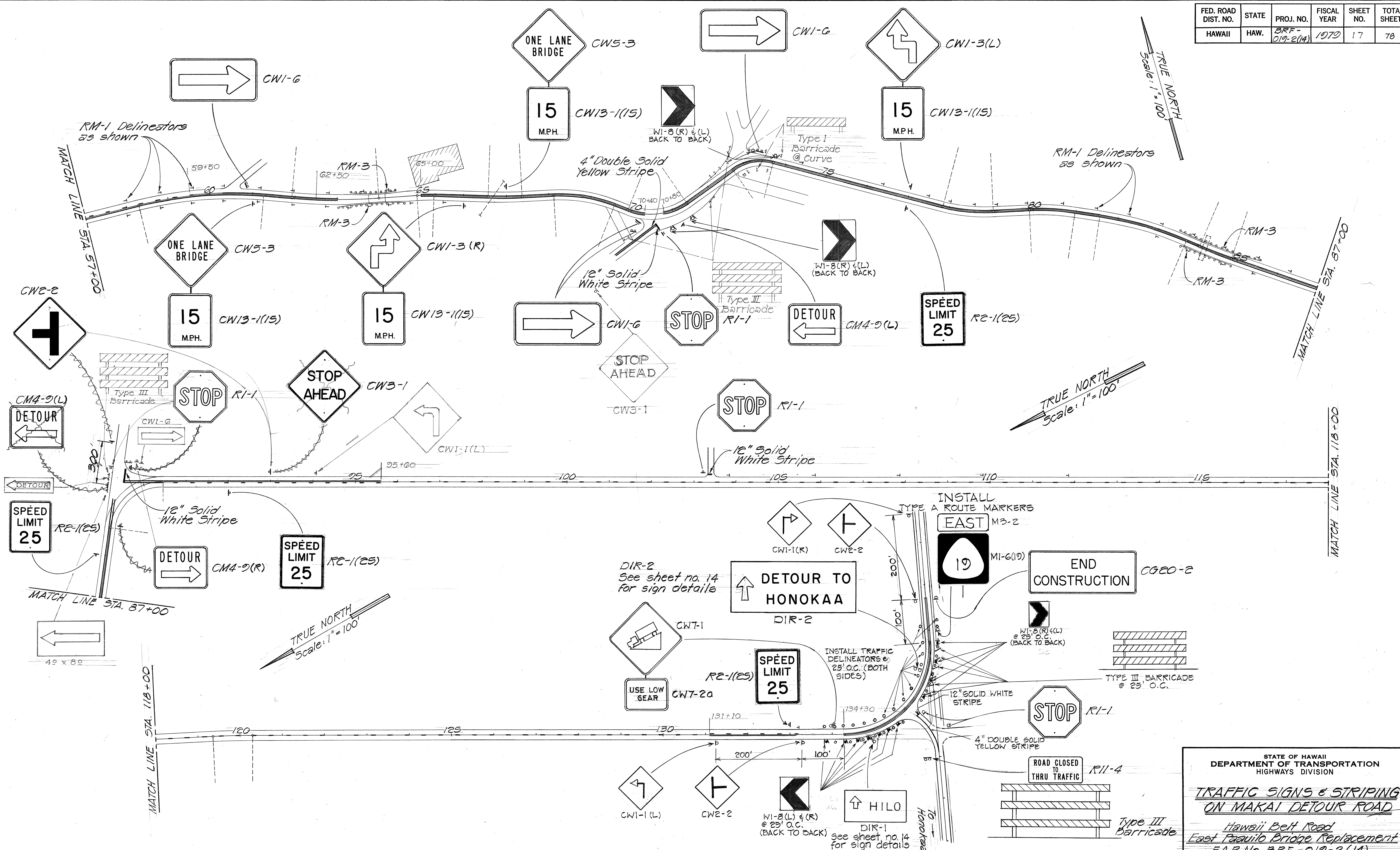
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC SIGNS & STRIPING
ON MAKAI DETOUR ROAD**

*Hawaii Belt Road
East Paauilo Bridge Replacement
F.A.P. No. BRF-019-2(14)*

Scale: As Shown Date: Aug. 1978
SHEET NO. 1 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	BRF- 219-2(4)	1979	17	78



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

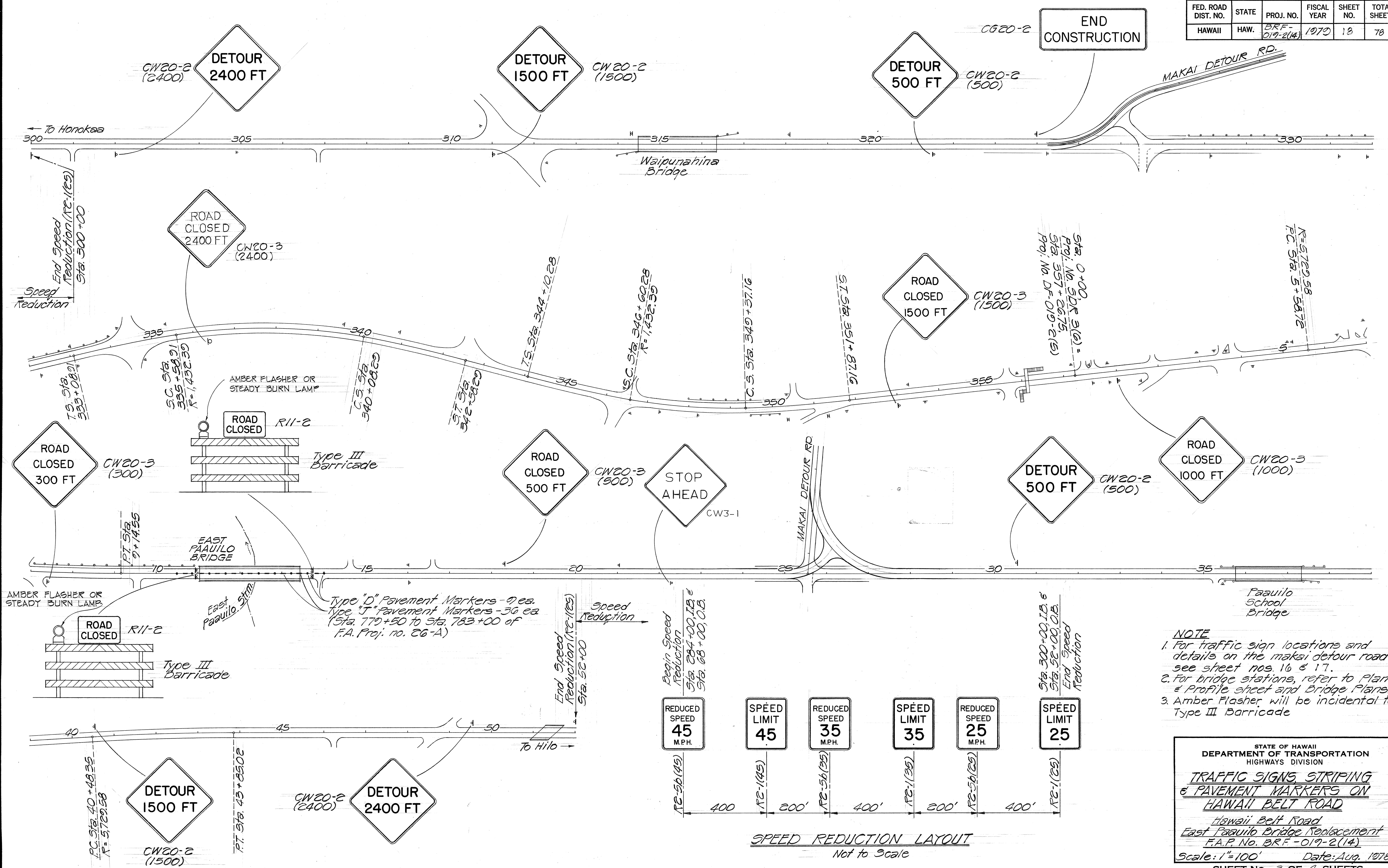
TRAFFIC SIGNS & STRIPING
ON MAKAI DETOUR ROAD

Hawaii Belt Road
East Puuloa Bridge Replacement
F.A.P. No. BRF-019-2(14)

Scale: As Shown *Date: Aug. 1976*

SHEET NO. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BRF-019-2(14)	1978	18	78



NOTE

1. For traffic sign locations and details on the makai detour road see sheet nos. 16 & 17.
2. For bridge stations, refer to Plan & Profile sheet and Bridge Plans.
3. Amber Flasher will be incidental to Type III Barricade

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNS STRIPING & PAVEMENT MARKERS ON HAWAII BELT ROAD

*Hawaii Belt Road
East Paauilo Bridge Replacement
F.A.P. No. BRF-019-2(14)*

Scale: 1"=100' Date: Aug. 1978

SHEET NO. 3 OF 4 SHEETS

SPEED REDUCTION LAYOUT
Not to Scale

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BRF-019-2(14)	1970	19	78

SUMMARY OF REGULATORY & WARNING SIGNS

TYPE	DESCRIPTION	QUANTITY	
		W/POST	W/O POST
R1-1	Stop	2	
R2-1(25)	Speed Limit 25	8	
R2-1(35)	Speed Limit 35	2	
R2-1(45)	Speed Limit 45	2	
R2-5b(25)	Reduced Speed 25	2	
R2-5b(35)	Reduced Speed 35	2	
R2-5b(45)	Reduced Speed 45	2	
R11-2	Road Closed		2
R11-3	Road Closed, Local Traffic Only		1
R11-4	Road Closed to Thru Traffic		1
CG20-2	End Construction	2	
CM4-9L	Detour Left	3	
CM4-9R	Detour Right	2	
CM4-10L	Detour Left		1
CM4-10R	Detour Right		1
CW1-1(L)	Curve Left	3	
CW1-1(R)	Curve Right	3	
CW1-3	Curve		
CW1-3L	Curve Left	3	
CW1-6	Arrow	5	
CW2-2	Intersection	5	
CW3-1	Stop Ahead	4	
CW5-3	One Lane Bridge	2	
CW7-1	Hill	2	
CW7-2a	Use Low Gear		2
CW13-1(15)	Speed Advisory Plate		8
CW20-2(500)	Detour 500 Ft.	2	
CW20-2(1500)	Detour 1500 Ft.	2	
CW20-2(2400)	Detour 2400 Ft.	2	
CW20-3(300)	Road Closed 300 Ft.	1	
CW20-3(500)	Road Closed 500 Ft.	1	
CW20-3(1000)	Road Closed 1000 Ft.	1	
CW20-3(1500)	Road Closed 1500 Ft.	1	
CW20-3(2400)	Road Closed 2400 Ft.	1	
W1-8 (R) & (L)	Chevron Alignment Sign	13	13
W1-8 (L) & (R)	Chevron Alignment Sign	21	21
M1-6 (17)	Type A Route Markers	2	
M3-2	EAST		1
M3-4	WEST		1
TOTALS		108	50

GENERAL NOTES: DIRECTIONAL SIGNS

- DIRECTIONAL SIGNS SHALL CONFORM TO THE LATEST FHWA PUBLICATIONS: "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS", & AS AMENDED "STANDARD ALPHA-BETS FOR HIGHWAY SIGNS", & AS AMENDED.
- LETTERS: SERIES "E"
COLOR: WHITE REFLECTIVE SHEETING
BORDERS } ON DEMOUNTABLE ALUMINUM
ARROWS } CUT-OUTS FASTENED TO SIGN PANEL W/ALUMINUM BLIND RIVETS.
BACKGROUND } GREEN REFLECTIVE SHEETING
SIGN PANEL 0.100" TH. SHEET ALUMINUM
- IF SPlicing OF SIGN PANEL IS NECESSARY, CONTRACTOR SHALL SUBMIT SPLICE DETAILS TO ENGINEER FOR APPROVAL.
- ALL SIGNS SHALL HAVE 2" BORDERS, AREA OUTSIDE CORNER RADIUS NEED NOT BE TRIMMED.

SUMMARY OF REFLECTOR MARKERS

TYPE	DESCRIPTION	QUANTITY	
		W/POST	W/O POST
RM-1	REFLECTOR MARKER	107	
RM-3	REFLECTOR MARKER	4	
SUB-TOTAL		111	
TRAFFIC DELINEATOR		61	
TOTAL		172	

GUARD RAIL SCHEDULE FOR MAKAI DETOUR ROAD & HAWAII BELT ROAD

STATION LIMITS		SIDE	LENGTH (LINEAL FT.)		TERMINAL FLARE (TYPE)	
Begin	End		Item No. 606.3110	Item No. 606.3220	Approach	Tail
63+30±	64+15±	Lt.	56.25	31.25	C	B.C.T.
63+00±	64+60±	Rt.	131.25	31.25	C	F
83+42±	85+30±	Lt.	187.50	-	B.C.T.	B.C.T.
83+65±	84+90±	Rt.	125.00	-	C	B.C.T.
779+20±	780+03±	Rt.	58.00	-	B.C.T.	-
782+96±	783+46±	Lt.	50.00	-	C	-
786+23±	786+65±	Rt.	37.50	-	-	G
TOTALS			645.50	62.50		

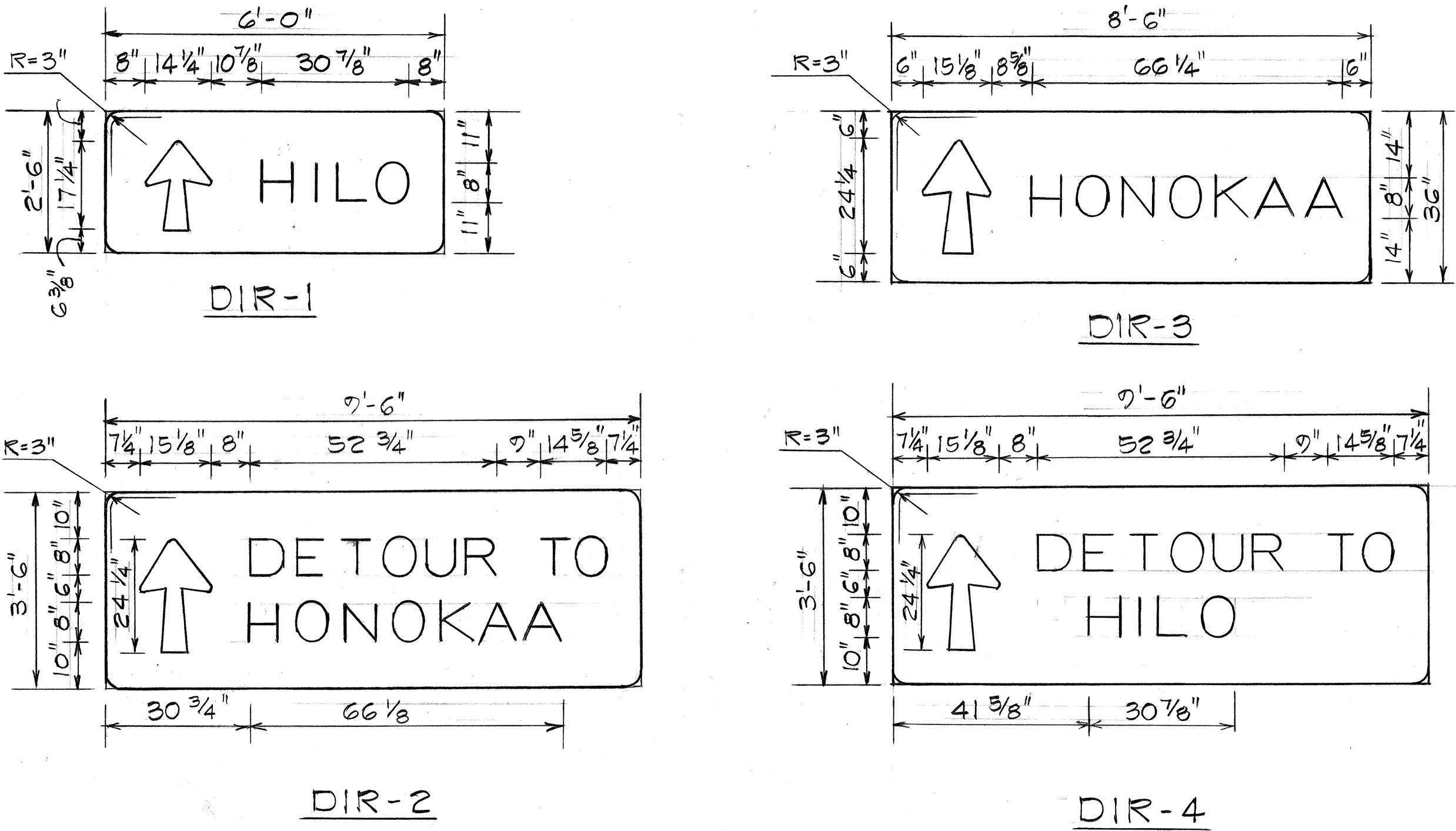
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGN DETAILS
& GUARD RAIL SCHEDULE

Hawaii Belt Road
East Paaulo Bridge Replacement
F.A.P. No. BRF-019-2(14)

Not to Scale Date: Aug. 1978

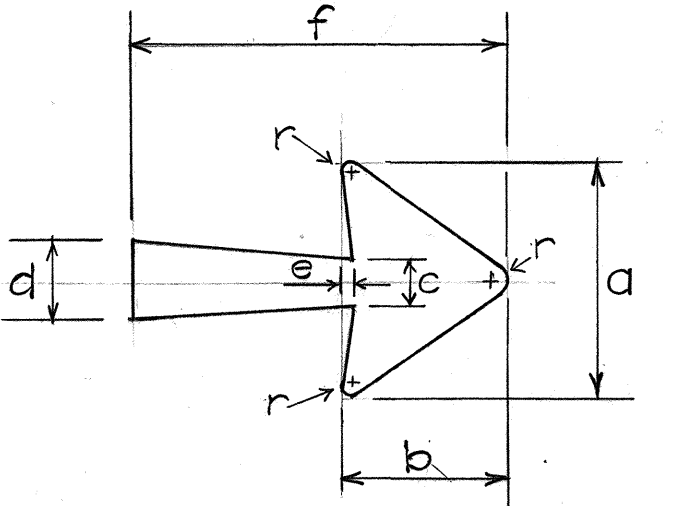
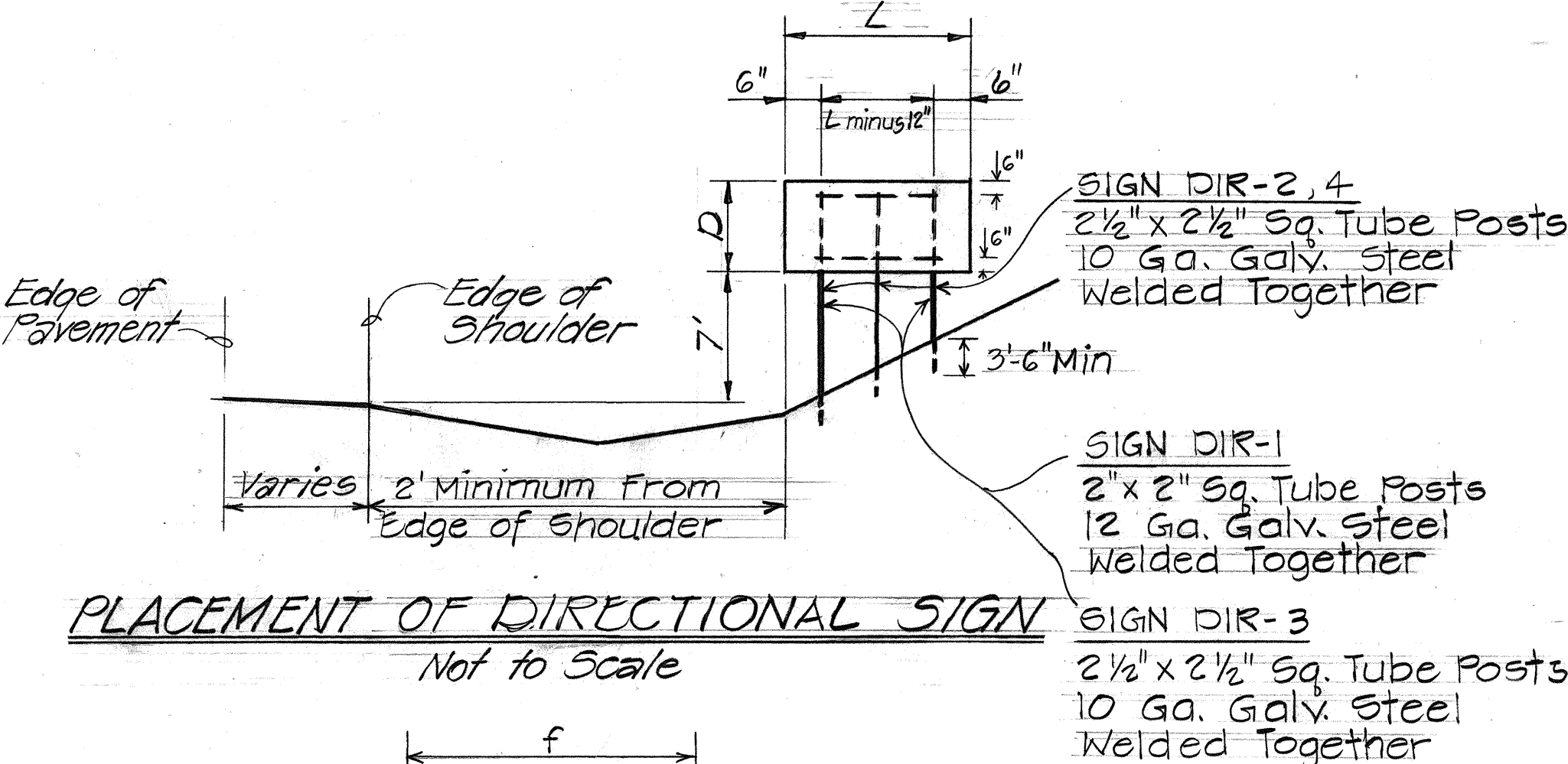
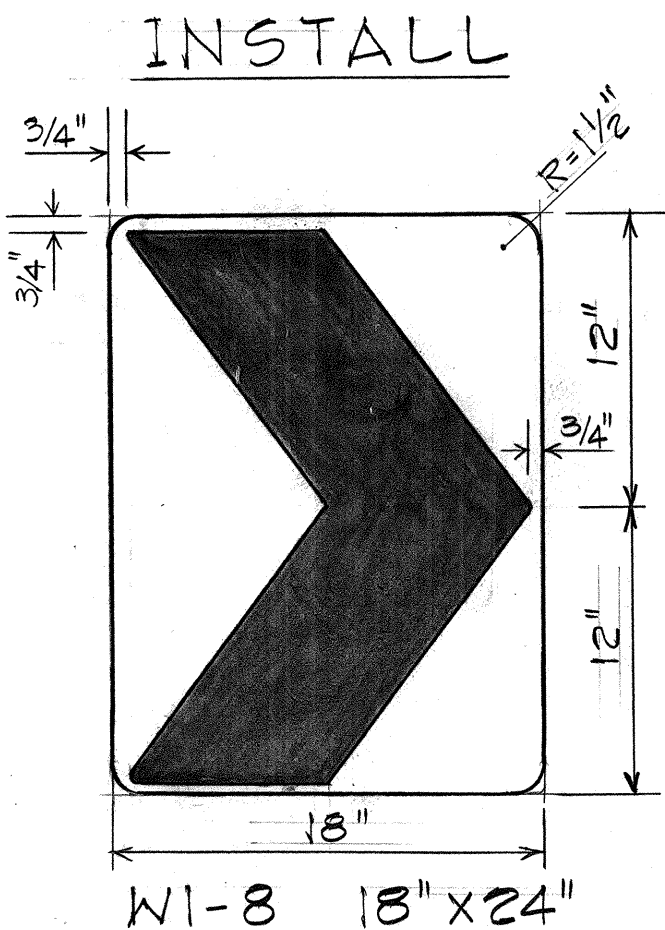
SHEET No. 4 OF 4 SHEETS



DIRECTIONAL SIGNS

Not to Scale

DIR-4



	OVERALL SIZE	DIMENSIONS (IN INCHES)						
		a	b	c	d	e	f	r
A	14 1/4" x 17 1/4"	14 1/4	9 3/8	3 3/8	4 1/2	1 1/8	17 1/4	3/4
B	15 1/8" x 24 1/4"	15 1/8	11 7/8	3 3/4	5	1 5/8	24 1/4	1 1/8

- SPACING OF THESE SIGNS SHALL BE SUCH THAT THE MOTORISTS ALWAYS HAVE TWO IN VIEW UNTIL THE CHANGE IN ALIGNMENT ELIMINATES THE NEED FOR THE SIGNS.
- COLOR:
CHEVRON - BLACK
BACKGROUND - YELLOW
- (R) OR (L) INDICATES RIGHT OR LEFT

DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
QUANTITIES BY	
NO.	