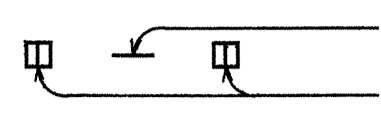
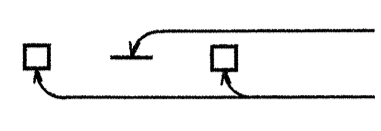
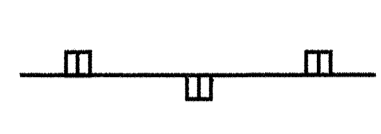
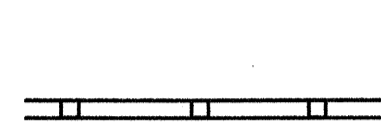


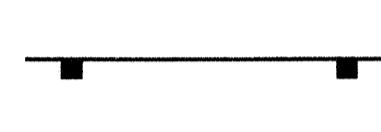




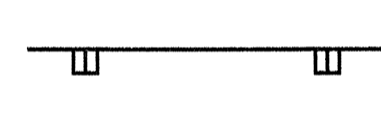
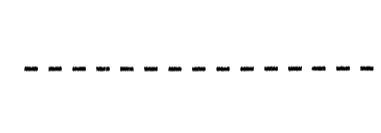
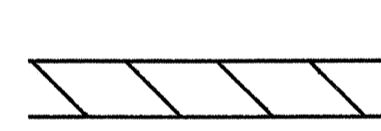
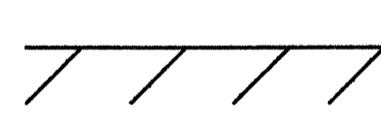
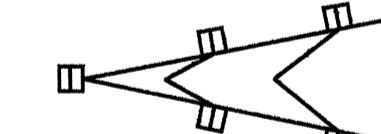
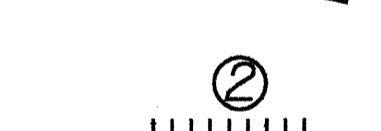
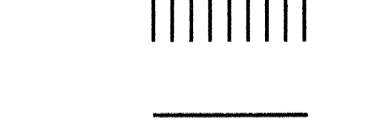


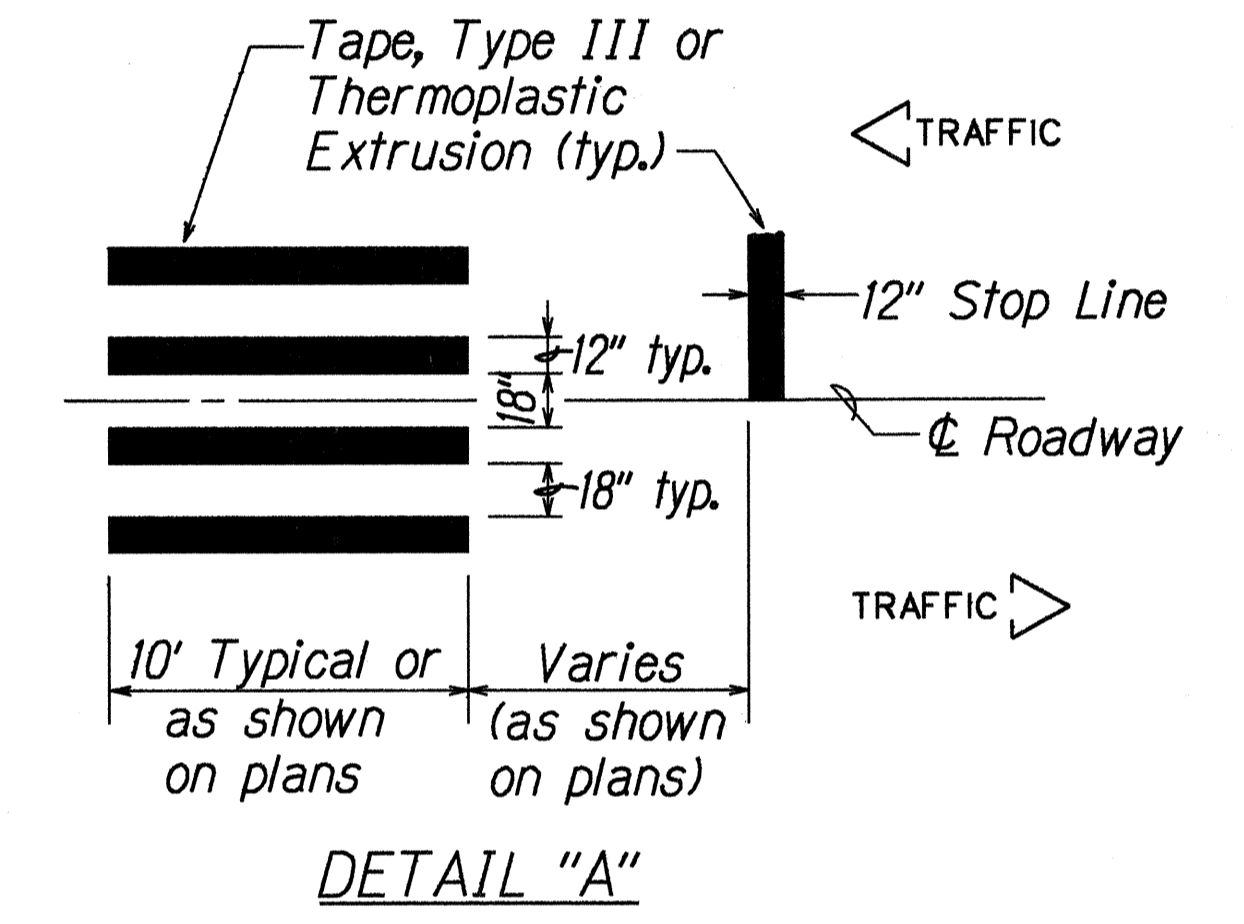
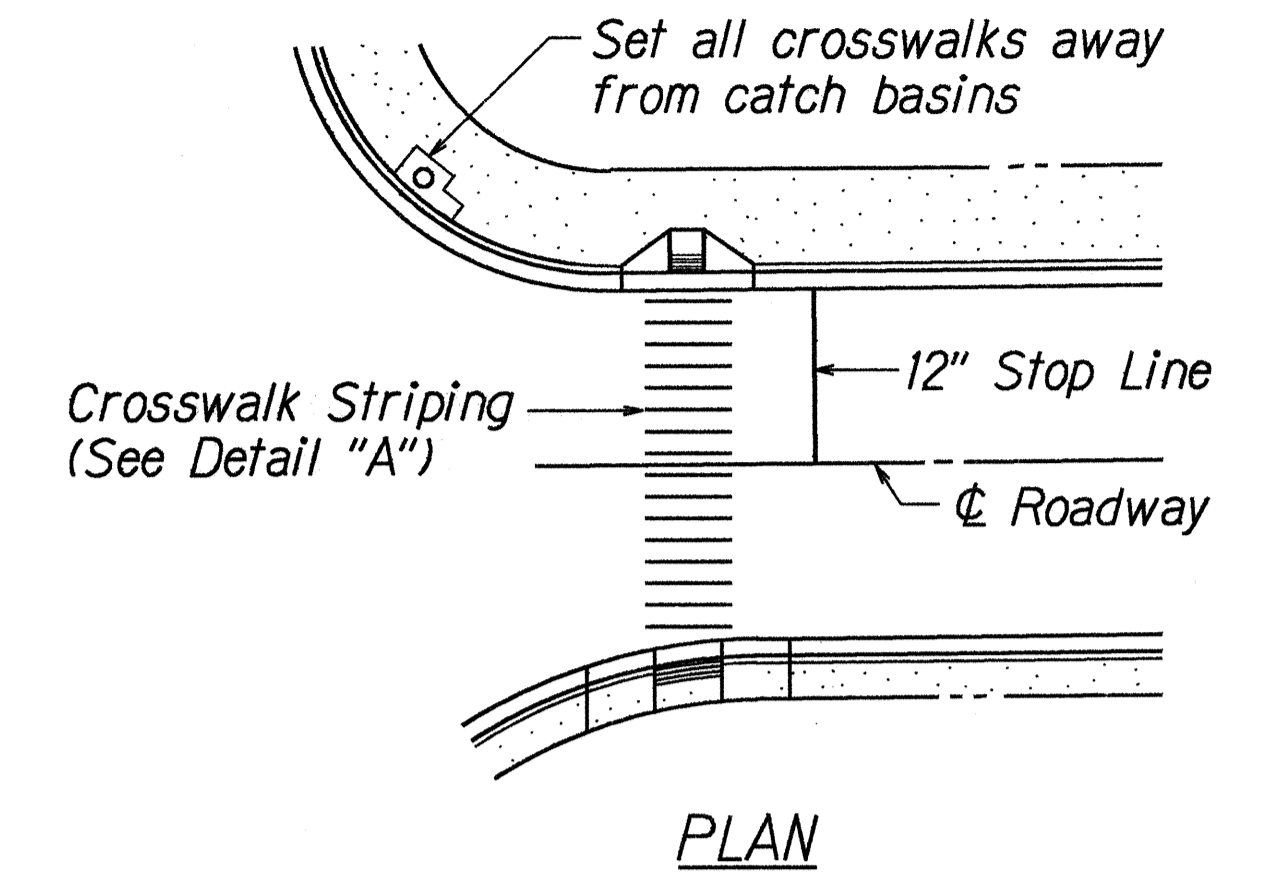
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-STP-056-1(35)	2000	65	70

LEGEND

-  4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'-0" o.c.
-  4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
-  8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  Lane Change Restriction Marking
4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
-  4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays)
-  Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)
-  Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)
-  Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)
-  Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)
-  Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
-  Pavement Word (Tape, Type III or Thermoplastic Extrusion)
-  4 Each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
Type H Raised Pavement Markers (Reflective Surface facing no-passing direction)
4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)
-  Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

NOTES

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings and striping not incorporated in the final traffic pattern shall be removed as directed by the Engineer. The removal of the existing pavement markings shall not be paid for separately but shall be considered incidental to the various pavement marking items.
3. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans or directed by the Engineer shall not be paid for and shall be considered incidental to the various signing items.
6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
7. All pavement striping shall be as noted on the Legend or plans.
8. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
9. Removal of Existing Delineators and Posts as directed by the Engineer shall be considered incidental to the various signing items.
10. Existing signs that are to be replaced shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
11. Backing for all new regulatory and warning signs shall not be spliced.
12. All sign panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control Devices for Street and Highways" (MUTCD)
 - b. "Standard Highway Signs"
 - c. "Standard Alphabets for Highway Signs"
13. All new and relocated signs and markers installed on pipe post or light standard are to be mounted with band brackets and steel braces.
14. The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs as indicated on the plans or as directed by the Engineer for the duration of the highway project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645-Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the Kauai District Baseyard or as directed by the Engineer at the end of the project. The advance construction warning signs shall be paid under Item No. 621.7100, Construction Sign with Two Posts.



CROSSWALK STRIPING DETAIL
Not to Scale

DATE: 2/17/99
 SURVEY PLOTTED BY: []
 DRAWN BY: G. Achi
 DESIGNED BY: G. Kashi
 CHECKED BY: []
 ORIGINAL PLAN
 NOTE BOOK
 10/1/99
 No. 4/uhitleg

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**PAVEMENT MARKING
 AND SIGNING PLAN**

KUHIO HIGHWAY
 Waikaea Bridge Widening
 Fed. Aid Proj. No. BR-STP-056-1(35)

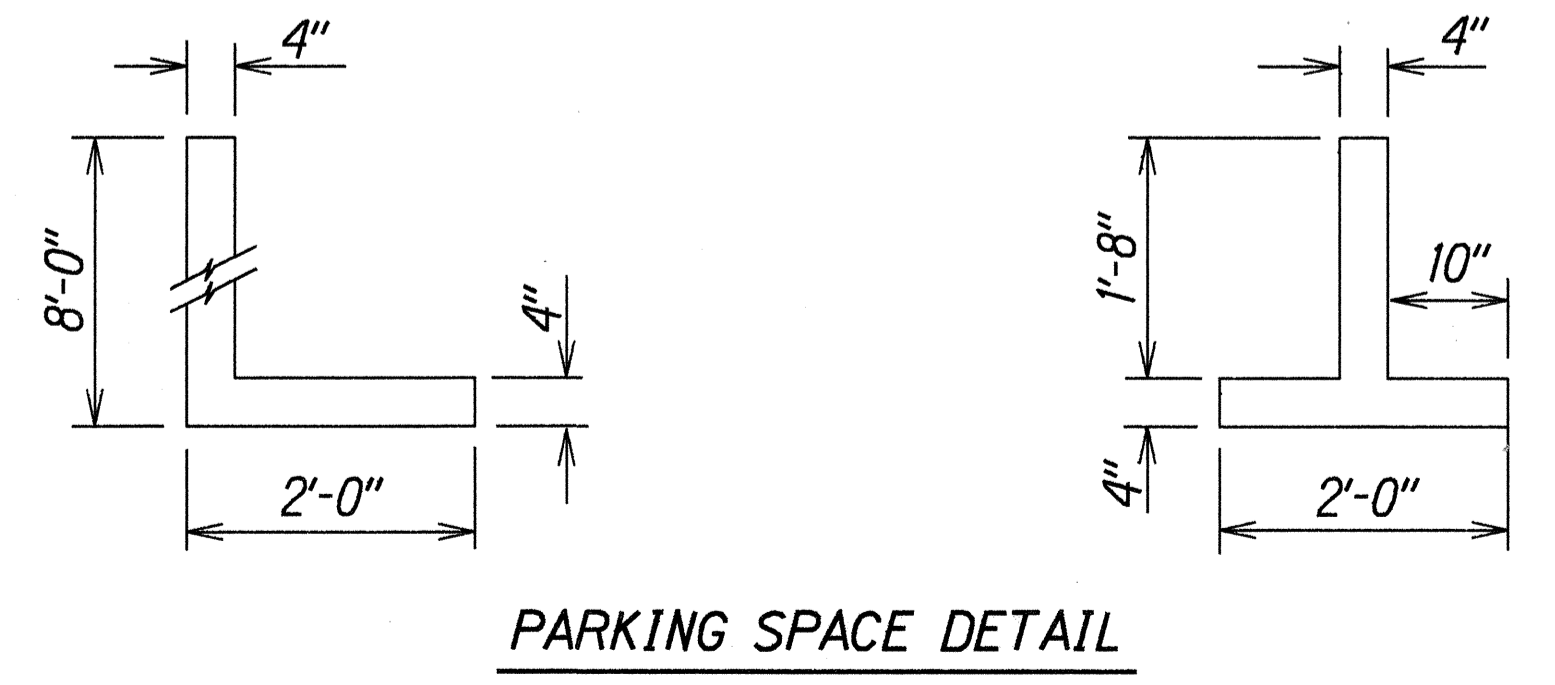
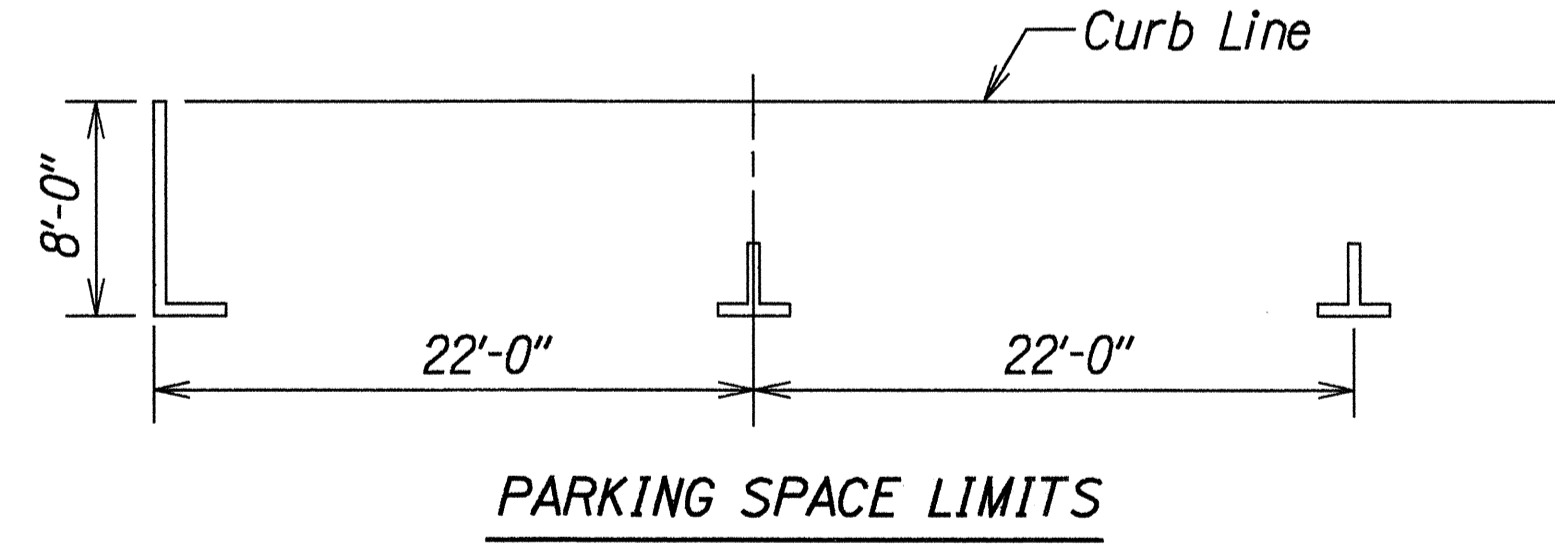
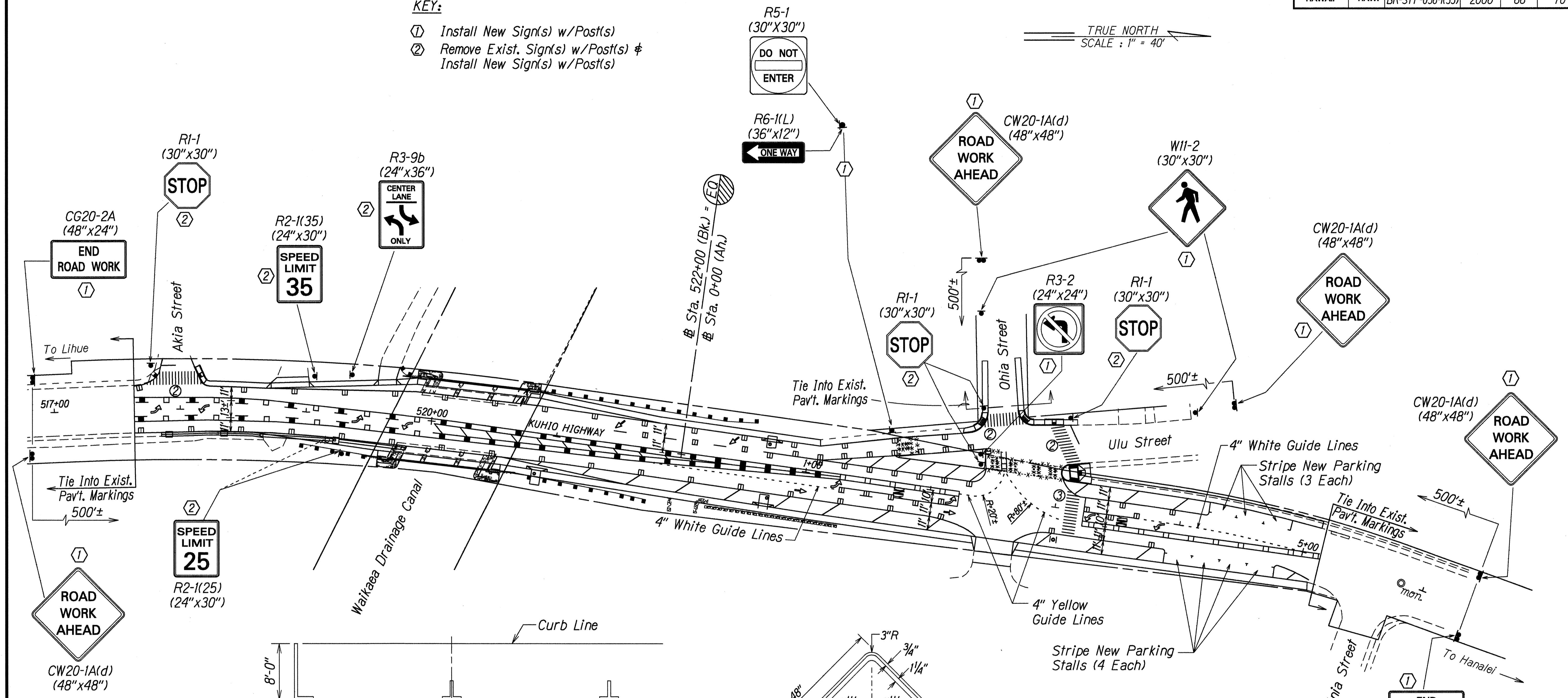
Scale: As noted Date: May, 1999

SHEET No. 71 OF 3 SHEETS

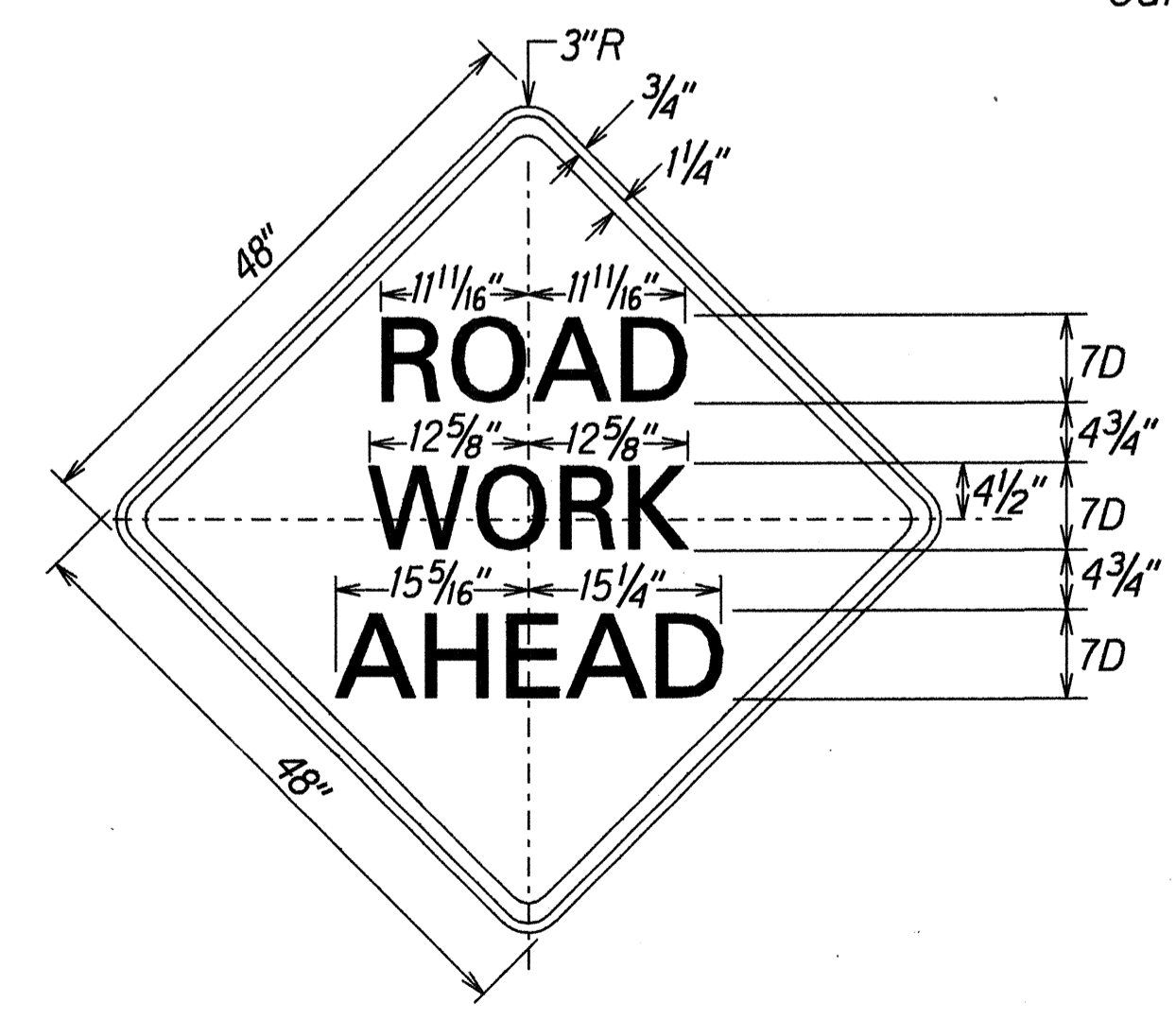
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-STP-056-1(35)	2000	66	70

- KEY:**
- ① Install New Sign(s) w/Post(s)
 - ② Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)

TRUE NORTH
SCALE: 1" = 40'



TYPICAL PARKING SPACE MARKINGS
Not to Scale







CW20-1A(d)
Not to scale
Colors:
Legend: Black (Non Refl)
Background: Orange

SURVEY PROVIDED BY: DATE: 1/23/96
 DRAWN BY: B. A. H.
 DESIGNED BY: G. K. G.
 CHECKED BY: S. K. P.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**PAVEMENT MARKING
 AND SIGNING PLAN**
 KUHIO HIGHWAY
 Waikaea Bridge Widening
 Fed. Aid Proj. No. BR-STP-056-1(35)
 Scale: 1" = 40' Date: May, 1999
 SHEET No. T2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-STP-056-1(35)	2000	67	70

PAVEMENT MARKING SUMMARY	
DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A _____	28 EA.
TYPE C _____	82 EA.
TYPE D _____	30 EA.
TYPE H _____	44 EA.
TYPE J _____	48 EA.
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	50 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	500 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	200 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	330 L.F.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	2,000 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	180 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	220 L.F.
12-INCH PAVEMENT STRIPE (YELLOW) _____	80 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	660 L.F.
TAPE - TYPE III OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	480 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	100 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	80 L.F.
CROSSWALK MARKINGS _____	9 LANES
PAVEMENT ARROW _____	12 EA.
PAVEMENT WORD _____	2 EA.
PARALLEL PARKING (3 STALLS) _____	1 EA.
PARALLEL PARKING (4 STALLS) _____	1 EA.

TRAFFIC SIGN SUMMARY			
SIGN NO.	MESSAGE	QUANTITY	
		10 SQ. FT.	OR LESS
		W/POST	W/O POST
R1-1	STOP	4	
R2-1(25)	SPEED LIMIT 25	1	
R2-1(35)	SPEED LIMIT 35	1	
R3-2		1	
R3-9b		1	
R5-1	DO NOT ENTER	1	
R6-1(L)			1
W11-2		2	
TOTAL		11	1

CONSTRUCTION SIGN SUMMARY				
SIGN NO.	LOCATION	MESSAGE	W/POSTS	W/O POST
CW20-1A(d)	500 FT. ± BEFORE BEG. OF PROJECT	ROAD WORK AHEAD	1	
CG20-2A	500 FT. ± BEFORE BEG. OF PROJECT	END ROAD WORK	1	
CW20-1A(d)	OHIA STREET	ROAD WORK AHEAD	1	
CW20-1A(d)	ULU STREET	ROAD WORK AHEAD	1	
CW20-1A(d)	500 FT. ± AFTER END OF PROJECT	ROAD WORK AHEAD	1	
CG20-2A	500 FT. ± AFTER END OF PROJECT	END ROAD WORK	1	
TOTAL			6	

ORIGINAL PLAN _____
 SURVEY PLATTED BY _____
 DRAWN BY G. A. C. _____
 TRACED BY _____
 DESIGNED BY G. K. G. _____
 CHECKED BY _____
 DATE 2/17/99

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
MISCELLANEOUS
TRAFFIC SUMMARIES
 KUHIO HIGHWAY
 Waikaea Bridge Widening
 Fed. Aid Proj. No. BR-STP-056-1(35)
 Date: May, 1999