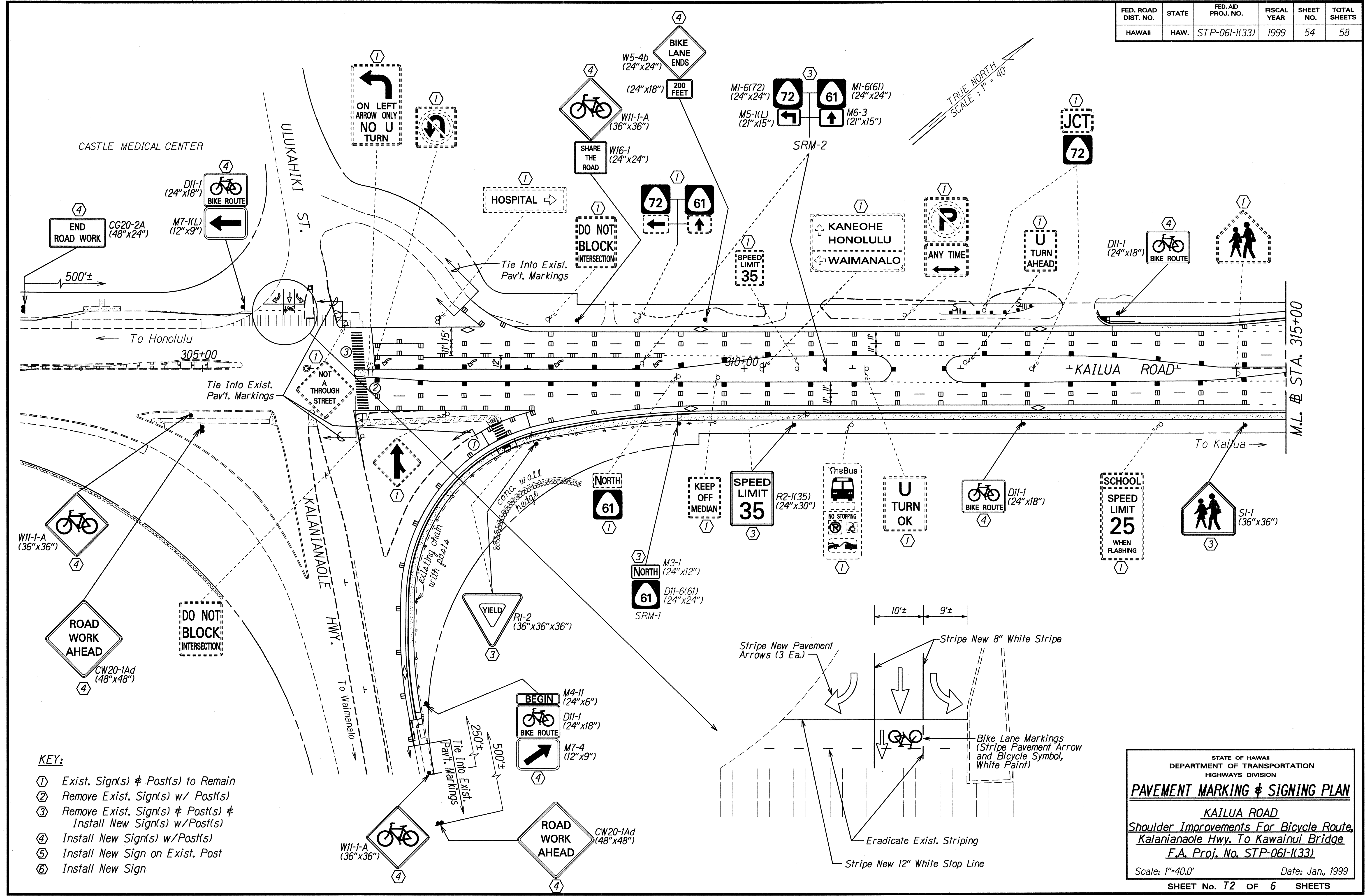


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-061-K(33)	1999	54	58

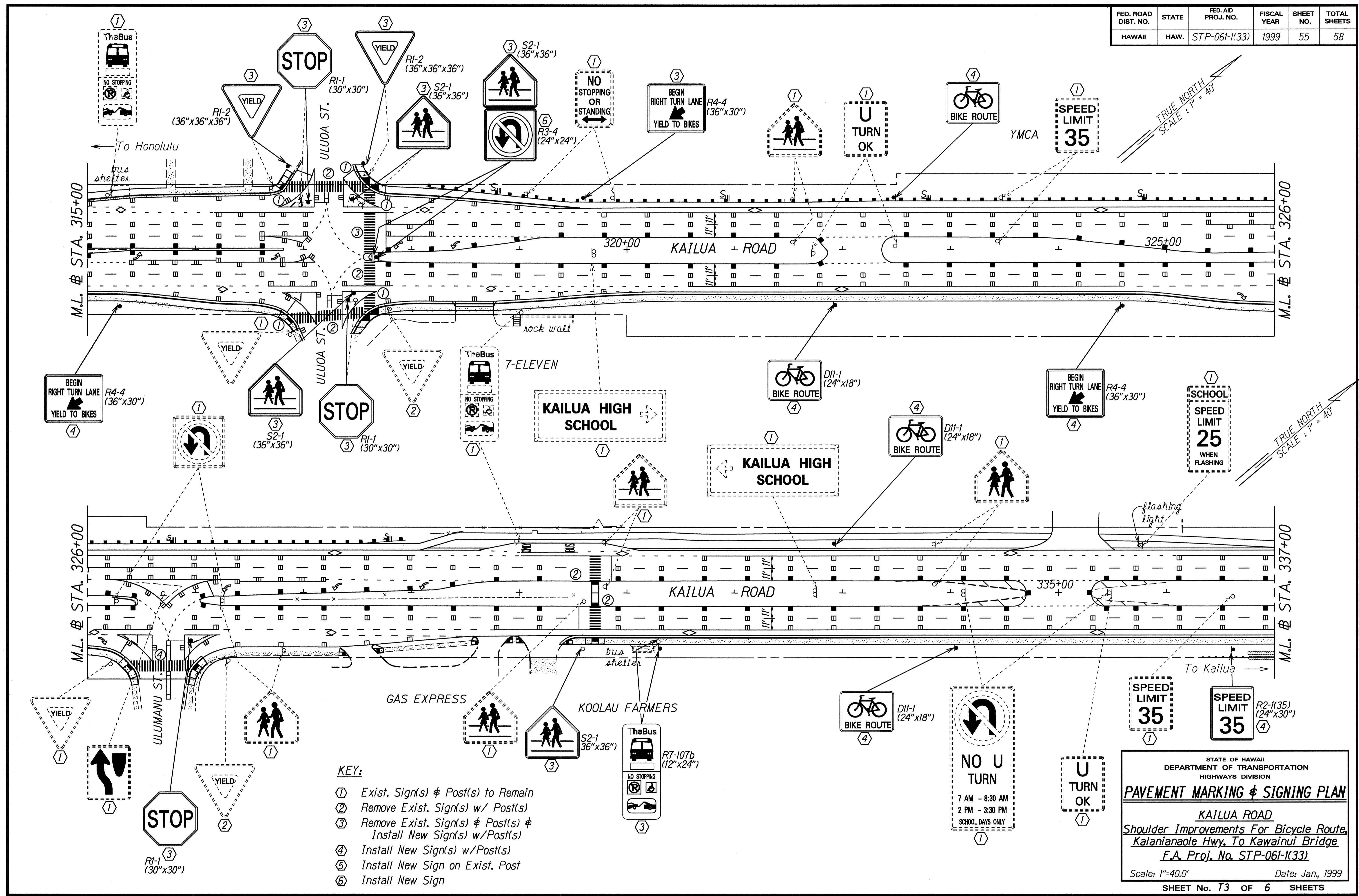


- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) w/ Post(s)
 - ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New Sign on Exist. Post
 - ⑥ Install New Sign

DESIGNED BY: DATE: 2/16/99
 DRAWN BY: M. HARRIS
 CHECKED BY: S. KANEH
 QUANTITIES BY: S. KANEH
 PLAN NO.: 2/16/99

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING & SIGNING PLAN
KAILUA ROAD
 Shoulder Improvements For Bicycle Route,
 Kalaniana'ole Hwy. To Kawainui Bridge
 F.A. Proj. No. STP-061-K(33)
 Scale: 1"=40.0' Date: Jan., 1999
 SHEET No. 72 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-061-K(33)	1999	55	58



DESIGNED BY: DATE: X
 DRAWN BY: M. Lealulii
 CHECKED BY: S. K. K.
 ORIGINAL PLAN NO. 20170
 NOTE: QUANTITIES BY 20170

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) w/ Post(s)
 - ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New Sign on Exist. Post
 - ⑥ Install New Sign

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

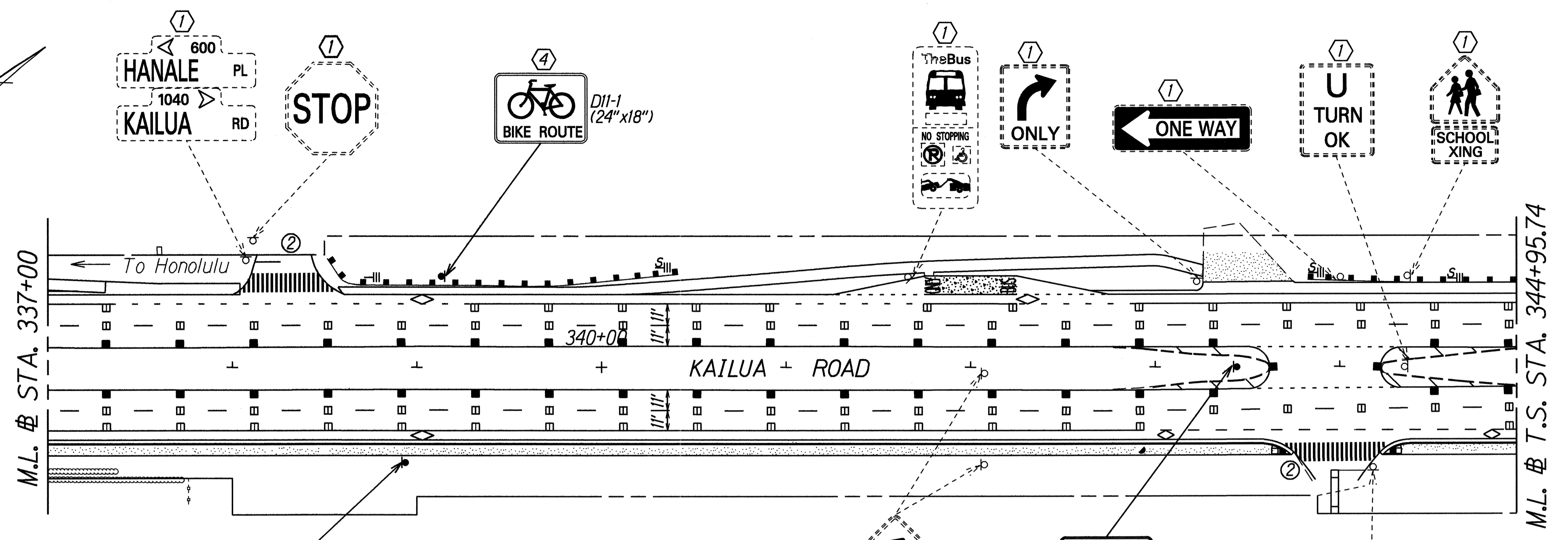
KAILUA ROAD
 Shoulder Improvements For Bicycle Route,
 Kalaniana'ole Hwy. To Kawainui Bridge
 F.A. Proj. No. STP-061-K(33)

Scale: 1"=40.0' Date: Jan., 1999

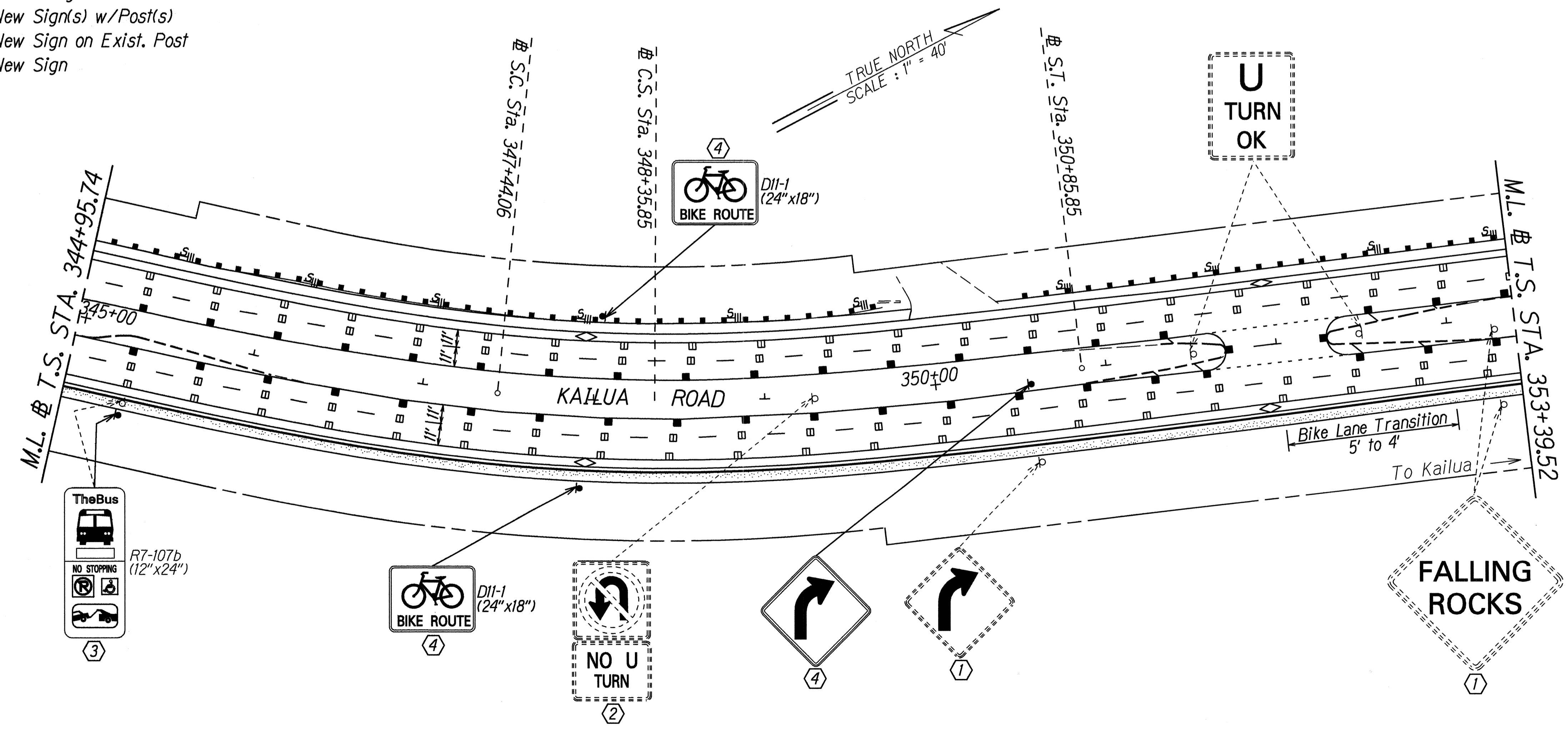
SHEET No. 73 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-061-K(33)	1999	56	58

TRUE NORTH
SCALE: 1" = 40'



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) w/ Post(s)
 - ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New Sign on Exist. Post
 - ⑥ Install New Sign



DATE: 11/27/99
 SURVEY PROVIDED BY: [blank]
 DRAWN BY: M. LeBlond
 NOTED BY: [blank]
 DESIGNED BY: Gary Kashi
 QUANTITIES BY: [blank]
 CHECKED BY: [blank]

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

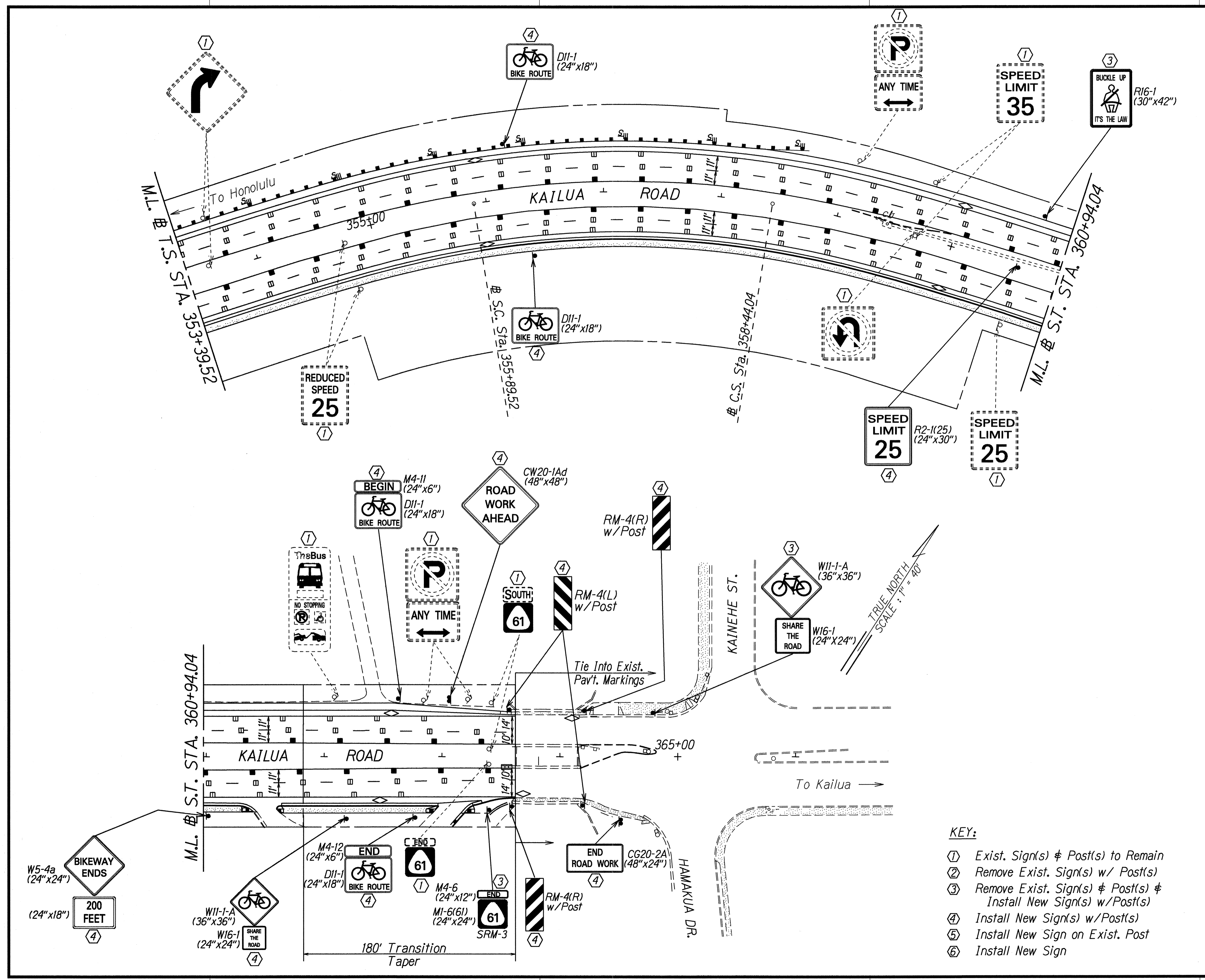
PAVEMENT MARKING & SIGNING PLAN

KAILUA ROAD
 Shoulder Improvements For Bicycle Route,
 Kalanianaʻole Hwy. To Kawainui Bridge
 F.A. Proj. No. STP-061-K(33)

Scale: 1"=40.0' Date: Jan., 1999

SHEET No. T4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-061-1(33)	1999	57	58



DESIGNED BY	DATE
TRACED BY	2/16/98
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) w/ Post(s)
 - ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New Sign on Exist. Post
 - ⑥ Install New Sign

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

KAILUA ROAD
*Shoulder Improvements For Bicycle Route,
Kalaniʻanoʻle Hwy. To Kawainui Bridge
F.A. Proj. No. STP-061-1(33)*

Scale: 1"=40.0' Date: Jan., 1999

SHEET No. T5 OF 6 SHEETS

PAVEMENT MARKING SUMMARY	
DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A _____	1,160 EA.
TYPE C _____	640 EA.
TYPE D _____	5 EA.
TYPE H _____	280 EA.
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	680 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	470 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	120 L.F.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	11,530 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	10,700 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	10,100 L.F.
8-INCH PAVEMENT STRIPE (YELLOW) _____	430 L.F.
12-INCH PAVEMENT STRIPE (YELLOW) _____	230 L.F.
TAPE - TYPE III OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	400 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	1,200 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	2,900 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	340 L.F.
CROSSWALK MARKINGS _____	33 LANES
PAVEMENT ARROW _____	16 EA.
PAVEMENT WORD _____	4 EA.
BIKE ROUTE PAVEMENT MARKINGS _____	35 EA.

TRAFFIC SIGN SUMMARY					
SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POSTS	W/O POSTS
R1-1	STOP	3			
R1-2	YIELD	3			
R2-1(25)	SPEED LIMIT 25	1			
R2-1(35)	SPEED LIMIT 35	2			
R3-4			1		
R4-4	BEGIN RIGHT TURN LANE YIELD TO BIKES	3			
R7-107b	TheBUS	2			
R16-1	U TURN OK	1			
R16-7	BIKE CROSSING SYMBOL	5			
W1-2(R)		1			
W5-4a	BIKEWAY ENDS 200 FEET	1			
W5-4b	BIKE LANE ENDS 200 FEET	1			
W11-1-A	BIKE CROSSING SYMBOL	5			
W16-1	SHARE THE ROAD		3		
S1-1	ADVANCE SCHOOL CROSSING	1			
S2-1	SCHOOL CROSSING	4			
TOTAL		29	4		
D11-1	BIKE ROUTE	16			
M4-11	BEGIN		2		
M4-12	END		1		
M7-1(L)			1		
M7-4			1		
TOTAL		16	5		

CONSTRUCTION SIGN SUMMARY			
SIGN NO.	MESSAGE	W/POSTS	W/O POST
CW20-1Ad	ROAD WORK AHEAD	3	
CG20-2A	END ROAD WORK	2	
TOTAL		5	

REFLECTOR MARKER SUMMARY						
TYPE	QUANTITY					
	W/O POST		W/FLEXIBLE POST		W/STEEL POST	
	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE
RM-3					29	
RM-4					4	

ROUTE MARKER SUMMARY							
SIGN ASSEMBLY	LOCATION	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY		TYPE B ASSEMBLY		
			W/POST	W/O POST	W/POST	W/O POST	W/O POST
SRM-1	STA. 309+40± RT.	M3-1 NORTH M1-6(61) 61	1				
SRM-2	STA. 310+80±	M1-6(72) 72 M5-1(6) M1-6(61) 61 M6-3			1		
SRM-3	STA. 363+40± RT.	M4-6 END M1-6(61) 61	1				
TOTAL			2		1		

ORIGINAL PLAN DATE: X
 CHECKED BY: _____
 DESIGNED BY: Gary Kekahi
 QUANTITIES BY: _____
 TRACED BY: _____
 DRAWN BY: _____
 NO. 20145010

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
TRAFFIC SUMMARIES
 KAILUA ROAD
 Shoulder Improvements For Bicycle Routes,
 Kalaniana'ole Hwy. To Kawainui Bridge
 Fed. Aid Project No. STP-061-(K33)
 Date: Jan., 1999
 SHEET No. T6 OF 6 SHEETS