

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-02M	2002	38	40

TRAFFIC SIGN SUMMARY					
SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POST	W/O POST
R1-1	STOP	2			
R2-1(K30)	SPEED LIMIT 30 MPH	5			
R2-5b(20)	REDUCE SPEED LIMIT 20	1			
R4-1	DO NOT PASS	12			
R4-2	PASS WITH CARE	9			
R15-1	UNLAWFUL TO LITTER \$500 FINE	3			
R16-1A	BUCKLE UP ITS THE LAW	1			
W1-1(R), W13-1(5)	 5 MPH	1	1		
W1-1(L), W13-1(5)	 5 MPH	1	1		
W1-4(L), W13-1(20)	 20 MPH	2	2		
W1-5(R)		4			
W2-2	 	2			
W1-6	 	2			
W1-8	 CHEVRON ALIGNMENT SIGN	8			
W8-2, W13-1(20)	 20 MPH	6	6		
W5-2, W13-1(5)	 20 MPH	4	2		
W14-3		8			
S1-1		2			
S2-1		3			
S5-1, S4-3	SPEED LIMIT 20 SCHOOL	2	2		
	FORD DANGEROUS WHEN WATER TOUCHES RED			4	
TOTAL		78	14	4	

MILE POST MARKERS AND SUMMARY		
MILE POST NO.	LOCATION	QUANTITY W/SUPPLEMENTAL ROUTE NO. PLATE (BI-DIRECTIONAL W/POST)
12	Sta. 205+50± Rt.	1
13	Sta. 258+40± Rt.	1
14	Sta. 311+20± Rt.	1
15	Sta. 51+50± Rt.	1
16	Sta. 105+60± Rt.	1
TOTAL		5

CONSTRUCTION SIGN SUMMARY			
SIGN NO.	MESSAGE	W/POST	W/O POST
CW20-1A(d)	ROAD WORK AHEAD	2	
CG20-2A	END ROAD WORK	2	
TOTAL		4	

ROUTE MARKER SUMMARY					
SIGN ASSEMBLY	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY		TYPE B ASSEMBLY	
		W/POST	W/O POST	W/POST	W/O POST
SRM-1	 M3-2  M1-6(450)  M6-3	6			
SRM-2	 M3-4  M1-6(450)  M6-3	6			
TOTAL		12			

REFLECTOR MARKER SUMMARY				
TYPE	QUANTITY			
	W/POST		W/O POST	
	YELLOW	WHITE	YELLOW	WHITE
RM-3	200			
RM-4	12			

OBJECT MARKER SUMMARY		
TYPE	QUANTITY	
	W/ POST	W/O POST *
TYPE II OBJECT MARKER	150	70
TOTAL	150	70

* CONTRACTOR SHALL INSTALL OBJECT MARKERS ON ALL TREES AND UTILITY POLES THAT ARE WITHIN THE STATE HIGHWAY RIGHT-OF-WAY. REF. TE-17 OF STANDARD PLANS.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS SUMMARIES

KAMEHAMEHA V HIGHWAY RESURFACING

Kamalo to Pukoo

Project No. 450B-01-02M

Date: August, 2001

SHEET No. 1 OF 3 SHEETS

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

SURVEY PLOTTED BY
PLAN
DATE
10/01

DESIGNED BY
NOTED BY
CHECKED BY

TRACED BY
DESIGNED BY
CHECKED BY

QUANTITIES BY
CHECKED BY

VALVES AND MANHOLES SUMMARY			
LOCATION	WATER MANHOLE FRAME AND COVER	WATER VALVE BOX FRAME AND COVER	COMMENTS
M.P. 11.30 - M.P. 14.03	STA. 169+00 - STA. 311+50		
Sta. 194+38 Lt.		1	
Sta. 227+27 Lt.		1	
Sta. 234+15 Lt.		1	
Sta. 238+46 Lt.		1	
Sta. 238+78 Rt.		1	
Sta. 249+32 Rt.		1	
Sta. 257+74 Rt.		1	
Sta. 264+60 Rt.		1	
Sta. 271+46 Rt.		1	
Sta. 275+16 Rt.		1	
Sta. 277+27 Rt.		1	
Sta. 282+55 Rt.		1	
Sta. 285+72 Rt.		1	
Sta. 289+42 Rt.		1	
Sta. 293+12 Rt.		1	
Sta. 301+04 Rt.		1	
Sta. 310+35 Rt.		1	
M.P. 14.03 - M.P. 16.50	STA. 0+00 - STA. 130+00 EQUATION STATION		
Sta. 7+80 Lt.		1	
Sta. 29+10 Rt.		1	
Sta. 42+90 Rt.		1	
Sta. 51+30 Rt.		1	
Sta. 59+75 Rt.		1	
Sta. 62+95 Rt.		1	
Sta. 67+10 Rt.		1	
Sta. 74+50 Rt.		1	
Sta. 78+75 Rt.		1	
Sta. 82+45 Rt.		1	
Sta. 85+40 Rt.		1	
Sta. 88+70 Rt.		1	
Sta. 91+60 Rt.		1	
Sta. 95+10 Rt.		1	
Sta. 95+30 Rt.		1	
Sta. 98+75 Rt.		1	
Sta. 102+25 Rt.		1	
Sta. 103+55 Rt.		1	
Sta. 105+90 Rt.		1	
Sta. 109+25 Rt.		1	
Sta. 113+00 Rt.		1	
Sta. 115+70 Rt.		1	
Sta. 119+30 Rt.		1	
Sta. 119+30 Lt.		1	
Sta. 119+50 Rt.		1	
Sta. 122+90 Lt.		1	
Sta. 126+60 Lt.	1		
Sta. 126+85 Lt.		1	
TOTAL	1	44	

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HAWAII	HAW.	450B-01-02M	2002	39	40

RECONSTRUCTION OF WEAKENED AREAS						
STATION TO STATION (APPROX.)	OFFSET	LENGTH (FT.)	WIDTH (FT.)	THICKNESS (INCHES)	EXCAVATION (CY.)	ACB (TONS)
M.P. 11.30 - M.P. 14.03						
228+80 - 233+00	LT.	420	8	5½	57.04	117.05
254+50 - 255+50	LT.	100	4	5½	6.79	13.93
257+00 - 259+00	LT.	200	10	5½	33.95	69.67
258+00 - 258+70	RT.	70	4	5½	4.75	9.75
260+00 - 261+80	LT.	180	8	5½	24.44	50.15
262+00 - 263+00	RT.	100	4	5½	6.79	13.93
263+00 - 264+50	LT.	150	8	5½	20.37	4.80
272+00 - 273+00	LT.	100	8	5½	13.58	27.87
274+00 - 277+80	LT.	380	8	5½	51.60	105.88
287+30 - 290+00	LT.	270	8	5½	36.67	75.25
291+00 - 292+90	RT.	190	10	5½	32.25	66.18
302+00 - 304+50	LT.	250	8	5½	33.95	69.67
306+00 - 306+70	RT.	70	8	5½	9.51	19.51
M.P. 14.03 - M.P. 16.50						
75+00 - 75+50	RT.	50	4	5½	3.40	6.98
TOTAL						
ESTIMATED QTY.					335.09	650.62
					350.00	700.00

STATE OF HAWAII
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MISCELLANEOUS SUMMARIES

KAMEHAMEHA V HIGHWAY RESURFACING

Kamalo to Pukoo

Project No. 450B-01-02M

Date: September, 2001

SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-02M	2002	40	40

RAISED PAVEMENT MARKERS AND STRIPING SUMMARY														
STATION TO STATION	PAVEMENT STRIPING					DISTANCE (L.F.)	PAVEMENT MARKERS (EA.)				STOP BAR	ARROW	CROSS WALK	COMMENTS
	4" YELLOW (L.F.)		4" WHITE	8" WHITE	12" YELLOW		TYPE "C"	TYPE "D"	TYPE "H"	TYPE "J"	WHITE 12" (L.F.)	EA.	LANE	
	DOUBLE	SINGLE	L.F.	L.F.	L.F.									
(M.P. 11.30 - M.P. 14.03)														
STA. 169+00 - STA. 175+50			1300			650	34	17		68				Passing Both Sides
175+50 - 221+50	4600		9200			4600	231	231						No Passing Both Sides
221+50 - 228+00			1300			650	34	17		68				Passing Both Sides
228+00 - 256+50	2850		2700	3000		2850	144	144						No Passing Both Sides
256+50 - 298+75			8000	450		4225	212	106		424	50		4	Passing Both Sides
298+75 - 311+50	1275			2550		1275	65	65						No Passing Both Sides
EQ. STA. 311+50 - STA. 0+00														
(M.P. 14.03 - M.P. 16.50)														
STA. 0+00 - STA. 4+40	440		880			440	22	22		50				No Passing Both Sides
4+40 - 6+20		180	360			180	10	6	24					No Passing Left (One Way Passing)
6+20 - 9+70			700			350	19	10		40				Passing Both Sides
9+70 - 17+00		730	1460			730	38	19	76					No Passing Right (One Way Passing)
17+00 - 21+80			960			480	25	13		52				Passing Both Sides
21+80 - 27+00		520	1040			520	27	14	56					No Passing Right (One Way Passing)
27+00 - 29+00	200		400			200	11	11						No Passing Both Sides
29+00 - 34+00		500	1000			500	26	13	52					No Passing Left (One Way Passing)
34+00 - 41+00	700		1400			700	36	36						No Passing Both Sides
41+00 - 68+60			5520			2760	139	70		280				Passing Both Sides
68+60 - 75+00		640		1280		640	33	17	68					No Passing Right (One Way Passing)
75+00 - 77+50	250			500		250	14	14						No Passing Both Sides
77+50 - 84+00		650	80	1220		650	34	17	34					No Passing Left (One Way Passing)
84+00 - 88+00			800			400	21	11		44				Passing Both Sides
88+00 - 92+10		410	820			410	22	11	44					No Passing Right (One Way Passing)
92+10 - 98+00	590		1180			590	31	31						No Passing Both Sides
98+00 - 103+00		500	1000			500	26	13	52					No Passing Left (One Way Passing)
103+00 - 110+00			1400			700	36	18		72				Passing Both Sides
110+00 - 114+00		400	800			400	22	11	44					No Passing Right (One Way Passing)
114+00 - 130+00	1600		3200			1600	81	81						No Passing Both Sides
TOTAL	12505	4530	45500	9000		27250	1393	1018	450	1048	100		4	
ESTIMATED QTY.	12800	4700	46000	9000		27250	1400	1050	500	1100	100		4	

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	9/27/01
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
CHECKED BY		

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SHEET No. 3 OF 3 SHEETS