

GUARDRAIL WORK SUMMARY																										
SHT. NO.S		REMOVE GUARDRAILS W/ STEEL POSTS				REMOVE GUARDRAILS W/ CONCRETE POSTS				GUARDRAILS, TYPE 3, SINGLE W/ STEEL POSTS				GUARDRAILS, TYPE 3, SINGLE W/ STEEL POSTS (8' POSTS)				GUARDRAILS, TYPE 3, THRIE BEAM, DOUBLE W/ STEEL POSTS				**	* TYPE	* TYPE	CONNECT TO	ET -
		BEG	END	O/S	LENGTH	BEG	END	O/S	LENGTH	BEG	END	O/S	LENGTH	BEG	END	O/S	LENGTH	BEG	END	O/S	LENGTH	SRT	G	C/F	BRIDGE OR CONC. END POST	2000
5	51	17+65	26+30	Lt	865					18+17.5	26+05	Lt	787.5									1				1
6	51	27+75	28+62.5	Lt	87.5					28+10	28+22.5	Lt	12.5					28+22.5	30+47.5	Lt	25	1			1	
6	51	30+00±	30+40	Lt	40													30+00±	30+25	Lt	25				1	
6	51	33+75	(BCT)	Lt	37.5																	1				
7	56	139+85	145+60	Lt	575					139+85	145+35	Lt	550										1			1
8	56	153+30	(BCT)	Lt	37.5																	1				
8	56	153+45	(BCT)	Rt	37.5																					1
8	56	155+35	155+60	Lt	25													155+35	155+60	Lt	25				1	
8	56	157+00	157+75	Lt	75													157+00	157+25	Lt	25				1	1
8	56	157+25	157+87.5	Rt	62.5					157+50	157+75	Rt	25					157+25	157+50	Rt	25				1	1
8	56					161+15	165+90	Rt	475	161+40	166+40	Rt	500									1		1		
9	580	48+05	49+80	Lt	175					48+40	49+40	Lt	100									2				
9	580	53+25	54+00	Lt	75									53+50	53+75	Lt	25									2
10	580													58+75	59+50	Lt	75									2
10	580													61+40	64+65	Lt	325					1				1
13	580	152+50	(flared end)	Lt	0																					1
13	580	160+10	(flared end)	Lt	0																					1
13	580	162+85	-	Rt	25																					1
13	580	163+70	-	Rt	37.5																					1
13	580	164+20	164+60	Rt	40													164+20	164+45	Lt	25				1	
13	580	166+90	167+40	Lt	50					166+90	167+65	Lt	75										1			
13	580	169+90	(flared end)	Rt	0																					1
14	580	173+15	173+52.5	Lt	37.5																	1				
14	580	200+00±		Lt	12.5	2+00	2+25	Lt	25															1		
14-15	580					3+75	7+50	Lt	375	3+75	7+25	Lt	325					7+25	7+50	Lt	25			1	1	
15-16	580					11+45	28+60	Lt	1715	11+70	28+20	Lt	1650					11+45	11+70	Lt	25				1	1
16	580	29+15	36+65	Lt	750					29+40	36+40	Lt	700					36+40	36+65	Lt	25				1	1
16	580	36+55	-	Rt	12.5									36+55	-	Rt	25					1			1	
16	580	37+15	39+02.5	Lt	187.5					37+40	38+65	Lt	125					37+15	37+40	Lt	25				1	1
16	580	37+15	39+02.5	Rt	187.5					37+40	38+65	Rt	125					37+15	37+40	Rt	25				1	1
17	580																	60+00	60+25	Lt	25				1	1
17	580																	60+80	61+05	Rt	25				1	1
18	580	66+45	66+82.5	Rt	37.5					66+45	66+57.5	Rt	12.5					66+57.5	66+82.5	Rt	25				1	1
18	580	66+85	67+35	Lt	50					67+40	67+52.5	Lt	12.5					67+15	67+40	Lt	25				1	1
TOTALS					3520				2590				5000				450				375	9	3	3	16	23

SHOULDER WORK SUMMARY										
SHT. NO.	RTE	BEGIN STA.	END STA.	O/S	WIDTH FT. (W)	LENGTH FT.	AREA SF	EXCAV CY	AGG. BASE CY	AC TON
5	51	17+60	26+45	Lt	6	885	5310	131	98	69
6	51	27+60	28+55	Lt	6	95	570	14	11	7
7	56	140+25	140+70	Lt	6	45	270	7	5	3
7	56	140+70	144+10	Lt	5	340	1700	42	31	22
7	56	144+10	146+25	Lt	6	215	1290	32	24	17
9	580	48+00	49+90	Lt	6	190	1140	28	21	15
9	580	52+95	54+30	Lt	6	135	810	20	15	10
10	580	58+15	59+90	Lt	6	175	1050	26	19	14
10	580	60+80	67+00	Lt	3	620	1860	46	34	24
11-13	580	118+50	165+00	Lt	4	4650	18600	460	345	241
11-13	580	118+85	167+00	Rt	4	4815	19260	477	358	251
13-14	580	167+80	184+00	Lt	4	1620	6480	160	120	84
13-14	580	169+90	184+00	Rt	4	1410	5640	139	104	73
16	580	27+70	36+65	Lt	6	895	5370	133	99	69
16	580	27+70	36+65	Rt	4	895	3580	88	66	46
16	580	37+15	39+10	Lt	6	195	1170	29	22	15
16	580	37+15	39+10	Rt	6	195	1170	29	22	15
16-18	580	39+10	69+30	Lt	4	3020	12080	298	224	156
16-18	580	39+10	67+00	Rt	4	2790	11160	276	207	144
TOTALS						23185	98510	2435	1825	1275

NOTE:
* Type F, C, G . # Mod. G terminal ends are included as part of Item No. 606.3130, GUARDRAIL, TYPE 3, SINGLE, WITH SPACER ON STEEL POST

** Includes modified Type G

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(38)	1998	27	29

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

QUANTITY SUMMARIES

RICE STREET, KUHIO HIGHWAY
AND KUAMOO ROAD
GUARDRAIL AND SHOULDER IMPROVEMENTS
AT VARIOUS LOCATIONS

FEDERAL AID PROJECT NO. STP-0700(38)

Scale: As Shown Date: Sept, 1996

SHEET No. 1 OF 1 SHEETS