

GUARDRAIL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(31)	2001	30	55

CONSTRUCTION PROJECT NO.	REMOVE EXISTING GUARDRAIL STATION LOCATIONS		INSTALL NEW GUARDRAIL STATION LOCATIONS		RESET EXISTING GUARDRAIL STATION LOCATIONS		LEFT / RIGHT	GUARDRAIL REMOVAL LENGTH (FT.)	NEW GUARDRAIL LENGTH (FT.)	NESTED GUARDRAIL LENGTH (FT.)	INSTALL GUARDRAIL AT OBSTRUCTION (FT.)	INSTALL 8-FT. POST (EACH)	RESET POST AND REPLACE SPACER BLOCK (EACH)	GUARDRAIL END TREATMENTS														END TREATMENT REMOVAL	REMARKS
														TO EXISTING		RUBRAIL (LIN. FT.)	MODIFIED TYPE "A-1"		MODIFIED TYPE "G"		FLEAT 350		ET 2000		SKT 350		BRIDGE RAILING UPGRADE		
	FROM	TO	FROM	TO	FROM	TO								LEAD	TRAIL		LEAD	TRAIL	LEAD	TRAIL	LEAD	TRAIL	LEAD	TRAIL	LEAD	TRAIL			
19BC-01-71	1463+51.00	1462+52.00	1465+76.00	1462+52.00	+	+	L	100.0	275.0	--	--	--	--	--	1	75	1	--	--	--	--	--	--	--	--	C	Install Rubrail At Swale Crossing		
	1454+54.00	1453+80.00	1454+54.00	1451+93.00	+	+	L	75.0	225.0	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	RA	--		
	1463+25.00	1462+38.00	1465+24.00	1462+38.00	+	+	R	87.5	237.5	--	--	--	--	1	--	--	--	1	--	--	--	--	--	--	--	RA	--		
	1456+49.00	1455+49.00	1456+49.00	1453+24.00	+	+	R	100.0	275.0	--	--	--	--	--	1	162.5	1	--	--	--	--	--	--	--	--	RA	Install Rubrail At Swale Crossing		
	1429+49.00	1425+98.00	1430+83.00	1424+45.00	+	+	L	350.0	562.5	--	--	58	--	--	--	--	--	--	--	1	1	--	--	--	--	2 RA	58 - 8-Ft Posts At Fill Bank		
	1427+98.00	1424+99.00	1432+42.00	1422+82.00	+	+	R	300.0	875.0	--	--	23	--	--	--	--	--	1	--	--	1	--	--	--	--	2 RA	23 - 8-Ft Posts At Fill Bank		
	1417+51.00	1416+38.00	1418+76.00	1416+38.00	+	+	L	112.5	200.0	--	--	14	--	--	1	--	--	--	--	1	--	--	--	--	--	RA	14 - 8-Ft Posts At Fill Bank		
	1413+13.00	1412+50.00	1413+13.00	1411+12.00	+	+	L	62.5	162.5	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	RA	--		
	1416+69.00	1415+85.00	1417+60.00	1415+85.00	+	+	R	87.5	137.5	--	--	12	--	1	--	--	--	--	--	1	--	--	--	--	--	RA	12 - 8-Ft Posts At Fill Bank		
	1413+11.00	1411+99.00	1413+11.00	1411+24.00	+	+	R	112.5	150.0	--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	RA	--		
	1383+31.00	1382+05.00	1386+69.00	1382+05.00	+	+	L	125.0	425.0	--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	RA	--		
	1378+17.00	1377+31.00	1378+17.00	1376+17.00	+	+	L	87.5	150.0	--	--	--	--	1	--	62.5	--	1	--	--	--	--	--	--	--	RA	Install Rubrail At Swale Crossing		
	1380+49.00	1379+74.00	1382+85.00	1379+74.00	+	+	R	75.0	262.5	--	--	--	--	1	--	150	--	1	--	--	--	--	--	--	--	RA	Install Rubrail At Swale Crossing		
	1377+87.00	1377+03.00	1377+87.00	1375+62.00	+	+	R	87.5	175.0	--	--	--	--	--	1	75	1	--	--	--	--	--	--	--	--	RA	Install Rubrail At Swale Crossing		
	1337+51.00	1336+65.00	1338+77.00	1336+65.00	1336+65.00	1334+89.00	L	87.5	175.0	--	--	--	29	--	1	--	--	--	--	1	--	--	--	--	--	C	--		
	1334+89.00	1334+27.00	1334+89.00	1333+27.00	+	+	L	62.5	125.0	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	RA	--		
	1297+01.00	1296+27.00	1300+02.00	1296+27.00	1296+27.00	1290+64.00	L	75.0	337.5	--	--	--	91	--	1	--	--	--	--	1	--	--	--	--	--	RA	--		
	1290+64.00	1290+01.00	1290+64.00	1289+14.00	+	+	L	62.5	112.5	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	RA	--		
	1294+74.00	1294+11.00	1296+48.00	1294+11.00	1294+11.00	1290+74.00	R	62.5	200.0	--	--	--	55	1	--	--	--	--	--	1	--	--	--	--	--	RA	--		
	1290+74.00	1289+99.00	1290+74.00	1289+62.00	+	+	R	75.0	75.0	--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	RA	--		
	1258+91.00	1258+10.00	1261+35.00	1258+10.00	+	+	L	87.5	287.5	--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	RA	--		
	1252+60.00	1251+99.00	1252+60.00	1249+35.00	+	+	L	62.5	287.5	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	RA	--		
	1258+00.00	1257+37.00	1261+74.00	1257+37.00	+	+	R	62.5	400.0	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	RA	--		
	1253+12.00	1252+24.00	1253+12.00	1251+25.00	+	+	R	87.5	150.0	--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	RA	--		
	1164+59.00	1162+68.00	1168+52.00	1162+40.00	+	+	R	190.0	537.5	--	--	--	--	--	--	--	--	--	--	1	1	--	--	--	--	2RA	--		
	1164+52.00	1162+65.00	1168+42.00	1161+30.00	+	+	L	187.5	637.5	--	--	--	--	--	--	--	--	--	--	1	1	--	--	--	--	2RA	--		
	+	+	1152+26.00	1143+70.00	+	+	R	--	812.5	--	--	--	--	--	--	--	--	--	1	--	1	--	--	--	--	--	--		

Note: Left and right reference always refers to relative direction facing up-station. For Proj. No. 19BC-01-71, left refers to the makai side of road.

LEGEND
EGCP = Existing Guardrail With Concrete Posts
A8PNG = Use All 8 ft. Posts for New Guardrails
(#)PS(#) = (#) - 8 ft. Posts at Station (#)
BRI = Bridge Railing Improvement
RA = Ramped Anchor
IRSC87.5LE75.0TE = Install Rubrail At Swale Crossing, 87.5-ft. Leading End, 75.0-ft.Trailing End
EIP125LFNGTSPB = Eliminate 1 Post And install 25 Lin. Ft. Nested G.R. At Traffic Signal Pull Box
EIP137.5LFNGC = Eliminate 1 Post And install 37.5 Lin. Ft. Nested G.R. At Culvert
GM = Gravel Mound
MB = Mound Buried

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GUARDRAIL SCHEDULE
QUEEN KA'AHUMANU HIGHWAY
GUARDRAIL AND SHOULDER IMPROVEMENTS
HAPUNA TOWARDS KAILUA-KONA
F.A. PROJECT NO. NH-019-1(31)
Scale: none Date: April, 2001
SHEET No. 1 OF 2 SHEETS

SURVEY PLOTTED BY: _____
DATE: _____
DRAWN BY: _____
CHECKED BY: _____
NOTE BOOK: _____
QUANTITIES BY: _____
CHECKED BY: _____
ORIGINAL PLAN: _____
NOTE: _____
QUANTITIES: _____
CHECKED: _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-019-1(31)	2001	31	55

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK cdk/hag/2 dgm	DRAWN BY <u>✓</u>	*
	TRACED BY _____	*
	DESIGNED BY <u>✓</u>	*
	QUANTITIES BY _____	*
N ^o _____	CHECKED BY _____	*

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL SCHEDULE

QUEEN KA'AHUMANU HIGHWAY
GUARDRAIL AND SHOULDER IMPROVEMENTS
HAPUNA TOWARDS KAILUA-KONA
F.A. PROJECT NO. NH-019-(K31)

Scale: none Date: April, 2001

SHEET No. 2 OF 2 SHEETS