

REFLECTOR AND OBJECT MARKER SCHEDULE

STATION				RM-3**	RM-3Bi	RM-4		TYPE-II	REMARKS
				NO POST	FLEX POST	NO POST	STEEL POST	NO POST	
FROM	TO	LT	RT						
Queen Kaahumanu Highway									
6+78	----	●		1			1		End of Guardrail
6+92	----		●	1			1		End of Guardrail
7+85	----	●			1				Guardrail
8+00	10+13		●		3				Guardrail (space evenly)
8+91	----	●			1				Guardrail
10+02	----	●		1			1		End of Guardrail
11+20	----		●	1			1		End of Guardrail
13+40	----	●			1				Rock Face
13+60	----		●	1			1		End of Guardrail
14+40	----		●		1				Guardrail
15+20	----		●		1				Guardrail
15+31	----	●		1			1		End of Guardrail
16+00	----		●	1			1		End of Guardrail
16+00	----	●		1			1		End of Guardrail
19+70	----		●	1			1		End of Guardrail
19+73	----	●		1			1		End of Guardrail
20+49	----	●		1			1		End of Guardrail
20+96	----		●	1			1		End of Guardrail
23+50	----		●	1			1		End of Guardrail
24+33	----		●		1				Guardrail
24+74	----	●		1			1		End of Guardrail
25+17	----		●		1				Guardrail
25+75	----	●		1			1		End of Guardrail
26+00	----		●	1			1		End of Guardrail
26+90	----		●		1				Rock Face
27+25	----	●			1				Rock Face
28+38	----		●	1			1		End of Guardrail
28+46	----	●		1			1		End of Guardrail
29+10	----	●		1			1		End of Guardrail
29+34	----		●		1				Guardrail
29+65	----	●						1	Utility Pole
30+30	----		●		1				Guardrail
31+26	----		●	1			1		End of Guardrail
35+30	----		●		1				Culvert
35+30	----	●			1				Culvert
37+00	----		●		1				Rock Face
37+50	----	●			1				Rock Face

REFLECTOR AND OBJECT MARKER SCHEDULE

STATION				RM-3**	RM-3Bi	RM-4		TYPE-II	REMARKS
				NO POST	FLEX POST	NO POST	STEEL POST	NO POST	
FROM	TO	LT	RT						
39+00	----	●			1				Rock Face
39+25	----		●	1			1		End of Guardrail
39+79	----	●		1			1		End of Guardrail
40+14	----		●	1			1		End of Guardrail
40+28	----	●		1			1		End of Guardrail
41+10	----	●			1				Rock Face
42+75	----		●		1				Rock Face
44+00	----	●			1				Rock Face
44+10	----		●		1				Rock Face
45+00	----		●	1			1		End of Guardrail
45+50	----	●		1			1		End of Guardrail
46+10	49+40		●		4				Guardrail (space evenly)
47+50	49+50	●			4				Guardrail
50+51	----		●	1			1		End of Guardrail
50+51	----	●		1			1		End of Guardrail
51+00	----	●			1				Drop Off
52+50	58+50	●			5				Rock Face (space evenly)
53+00	59+00		●		5				Rock Face (space evenly)
59+70	65+60	●			7				Guardrail (space evenly)
60+00	65+26		●		6				Guardrail (space evenly)
69+00	----		●		1				Rock Face
70+50	----		●		1				Rock Face
71+75	74+25	●			3				Guardrail (space evenly)
71+87	----		●	1			1		End of Guardrail
73+00	75+00		●		3				Guardrail (space evenly)
74+42	----	●		1					Below W2-2 Sign
77+28	----	●				1			Below R1-1 Sign
77+28	----	●		2					Below R1-1 Sign
79+18	81+18		●		3				Guardrail (space evenly)
79+74	81+68	●			3				Guardrail (space evenly)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19CD-01-97M	1997	33	39

DATE

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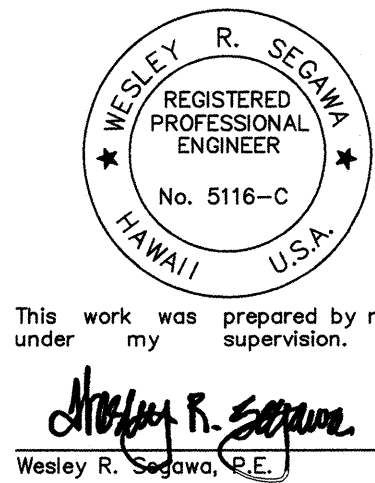
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No.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
REFLECTOR AND OBJECT MARKER SCHEDULE
QUEEN KAAHUMANU AND KAWAIHAE
RESURFACING, ROUTE 19, MP 63.3 TO 69.5
PROJECT NO.19CD-01-97M

SCALE: None
Date: April, 1997

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19CD-01-97M	1997	34	39

REFLECTOR AND OBJECT MARKER SCHEDULE - CONTINUE

STATION		LT		RM-3**	RM-3Bi	RM-4		TYPE-II	REMARKS
				NO POST	FLEX POST	NO POST	STEEL POST	NO POST	
FROM	TO								
85+50	93+00		●		6				Rock Face (space evenly)
86+00	93+50	●			6				Rock Face (space evenly)
94+60	----	●			1				Guardrail
95+35	----	●			1				Guardrail
96+48	----		●	1			1		End of Guardrail
97+00	99+00	●			3				Guardrail
97+50	----		●		1				Guardrail
98+50	----		●		1				Guardrail
101+10	----	●			1				Guardrail
101+25	----		●		1				Guardrail
101+80	----	●			1				Guardrail
102+20	----		●		1				Guardrail
103+50	106+50		●		3				Rock Face (space evenly)
104+00	107+00	●			3				Rock Face (space evenly)
108+30	110+30		●		3				Guardrail (space evenly)
109+35	----	●			1				Guardrail
110+35	----	●			1				Guardrail
NOTE: At Queen Kaahumanu Eq. Sta. 110+98.33 = 1514+99.59 the direction of stationing is reversed.									
1514+65	----		●		1				Guardrail
1511+65	1514+65	●			4				Guardrail
1507+00	1511+50		●		3				Rock Face (space evenly)
1503+00	----		●		1				Drop Off
1501+50	----		●		1				Drop Off
1494+00	1500+00		●		5				Rock Face (space evenly)
1492+50	1500+00	●			6				Rock Face (space evenly)
Hapuna Beach Access Road									
0+00	----		●	2					Below W1-6L Sign
0+00	----		●					1	Utility Pole
0+00	----		●		2				Boulder

REFLECTOR AND OBJECT MARKER SCHEDULE

STATION		LT		RM-3**	RM-3Bi	RM-4		TYPE-II	REMARKS
				NO POST	FLEX POST	NO POST	STEEL POST	NO POST	
FROM	TO								
Kawaihae Road									
93+40	98+20		●		9				Curve (space evenly)
100+58	101+58		●		3				Guardrail (space evenly)
100+00	----		●	1					Below W2-2 Sign
102+85	----		●		1				Drop off
104+05	111+43		●		8				Guardrail (space evenly)
113+75	----		●					2	Telephone pole
116+35	----		●					2	Telephone pole
113+65	119+65		●		5				Drop off (space evenly)
118+85	----		●					2	Telephone pole
120+30	----		●		1				Culvert
121+40	----		●					2	Telephone pole
124+10	----		●		1				Drop off
124+20	----		●					2	Telephone pole
125+85	----		●		1				Drop off
126+25	----		●					2	Telephone pole
126+40	----		●		1				Culvert
127+25	----		●		1				Culvert
128+60	----		●					2	Telephone pole
127+97	130+85		●		5				Rock face, Curve (space evenly)
131+79	136+11		●		7				Rock face, Curve (space evenly)
137+00	138+00		●		3				Guardrail (space evenly)
138+70	----		●		1				Shoulder transition
139+94	148+53		●		13				Curve, Rock face, Gaurdail (space evenly)
149+47	151+35		●		3				Guardrail (space evenly)
152+30	157+24		●		9				Curve, Rock face, Gaurdail (space evenly)
93+40	99+80	●			9				Rock face, Curve (space evenly)
97+45	----	●						2	Telephone pole
100+60	----	●			1				Gaurdail
101+35	----	●			1				Gaurdail

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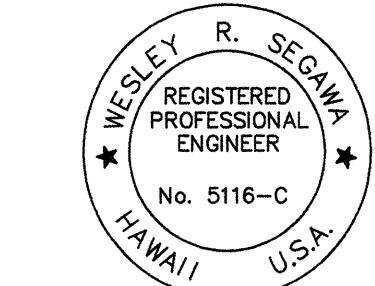
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NOTE BOOK

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Wesley R. Segawa, P.E.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
REFLECTOR AND OBJECT
MARKER SCHEDULE
QUEEN KAAHUMANU AND KAWAIHAE
RESURFACING ROUTE 19, MP 63.3 TO 69.5
PROJECT NO.19CD-01-97M

SCALE: None Date: April, 1997

SHEET No. 2 OF 4 SHEETS 9704-34

REFLECTOR AND OBJECT MARKER SCHEDULE - CONTINUE

STATION		LT RT		RM-3**	RM-3Bi	RM-4		TYPE-II	REMARKS
				NO POST	FLEX POST	NO POST	STEEL POST	NO POST	
101+70	---	---	●		1				Rock face
102+80	---	---	●		1				Rock face
103+05	---	---	●	1					Below W1-4 Sign
104+70	---	---	●		1				Culvert
106+80	---	---	●		1				Curb
106+90	---	---	●					2	Telephone pole
108+75	---	---	●					2	Telephone pole
109+10	111+00		●		3				Gaurdrail
112+20	115+20		●		3				Rock face, Curve (space evenly)
118+85	---	---	●					2	Telephone pole
120+55	---	---	●		2				Culvert
121+40	---	---	●					2	Telephone pole
124+20	---	---	●					2	Telephone pole
128+55	---	---	●					2	Telephone pole
127+97	130+85		●		5				Rock face, Curve (space evenly)
131+79	136+11		●		7				Rock face, Curve (space evenly)
140+50	---	---	●					2	Telephone pole
139+94	143+52		●		6				Curve (space evenly)
144+95	148+53		●		6				Curve, Guardrail (space evenly)
149+47	151+55		●		3				Guardrail (space evenly)
152+30	157+24		●		9				Curve, Guardrail (space evenly)
Kawaihae Road Eq. Sta. 157+23.61 Bk.= 156+21.91 Ah.									
157+39	---	---	●		1				Rock Face
158+10	158+90		●		3				Guardrail (space evenly)
158+60	---	---	●		2				Grated drain inlet
159+24	161+65		●		5				Curve (space evenly)
159+24	161+65		●		5				Curve (space evenly)
160+30	---	---	●					2	Telephone pole
163+04	168+66		●		8				Curve, Rock face (space evenly)
163+04	168+66		●		8				Curve, Rock face, Gaurdrail (space evenly)
166+75	---	---	●		2				Grated drain inlet
169+85	172+35		●		3				Guardrail (space evenly)
169+85	172+35		●		3				Guardrail (space evenly)
173+18	178+17		●		8				Curve, Rock face (space evenly)
173+18	178+17		●		8				Curve, Rock face, Gaurdrail (space evenly)

REFLECTOR AND OBJECT MARKER SCHEDULE - CONTINUE

STATION		LT RT		RM-3**	RM-3Bi	RM-4		TYPE-II	REMARKS
				NO POST	FLEX POST	NO POST	STEEL POST	NO POST	
179+45	181+90		●		3				Guardrail (space evenly)
179+45	181+90	●			3				Guardrail (space evenly)
182+91	187+51		●		9				Curve, Gaurdrail (space evenly)
182+91	187+51	●			9				Curve, Gaurdrail (space evenly)
188+86	---	---	●		1				Rock Face
188+86	---	---	●		1				Rock Face
190+22	197+01		●		12				Curve, Rock face, Gaurdrail (space evenly)
190+22	197+01	●			12				Curve, Rock face, Gaurdrail (space evenly)
197+74	206+55		●		13				Curve, Rock face, Gaurdrail (space evenly)
197+74	206+55	●			13				Curve, Gaurdrail (space evenly)
206+45	---	---	●					2	Power pole
Kawaihae Road Eq. Sta. 207+18.62 Bk. = 206+98.81 Ah.									
209+00	---	---	●					2	Telephone pole
211+90	---	---	●					2	Telephone pole
213+25	---	---	●	1					Below W1-5 Sign
214+80	---	---	●					2	Telephone pole
217+35	---	---	●	1					Below W1-5 Sign
224+72	228+71		●		5				Curve, Rock face (space evenly)
224+72	228+71	●			5				Curve, Guardrail (space evenly)
226+60	---	---	●					2	Telephone pole
229+60	233+20		●		5				Curve, Guardrail (space evenly)
229+60	233+20	●			5				Curve (space evenly)
233+97	237+07		●		5				Curve, Guardrail (space evenly)
233+97	237+07	●			5				Curve, Guardrail (space evenly)
237+66	241+22		●		7				Curve, Guardrail (space evenly)

DATE: _____

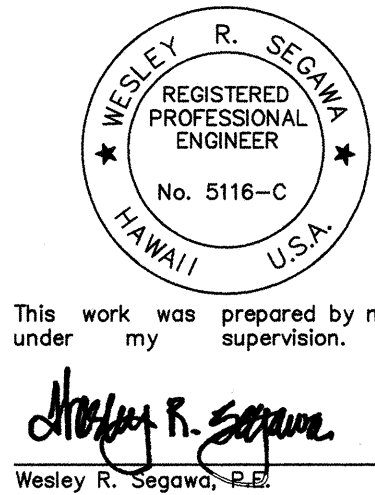
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**REFLECTOR AND OBJECT
MARKER SCHEDULE**
QUEEN KAAHUMANU AND KAWAIHAE
RESURFACING, ROUTE 19, MP 63.3 TO 69.5
PROJECT NO.19CD-01-97M
SCALE: None Date: April, 1997
SHEET No. 3 OF 4 SHEETS 9704-35

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19CD-01-97M	1997	36	39

REFLECTOR AND OBJECT MARKER SCHEDULE - CONTINUE

STATION *				RM-3**	RM-3Bi	RM-4		TYPE-II	REMARKS
				NO POST	FLEX POST	NO POST	STEEL POST	NO POST	
FROM	TO	LT	RT						
Kawaihae Road Eq. Sta. 207+18.62 Bk.= 206+98.81 Ah.									
237+66	241+22	●			7				Curve (space evenly)
242+22	248+22		●		7				Guardrail (space evenly)
242+80	245+80	●			4				Guardrail (space evenly)
247+00	----	●			1				Rock face
248+91	252+36		●		6				Curve, Guardrail (space evenly)
248+91	----	●			1				Curve
250+29	252+36	●			4				Curve, Guardrail (space evenly)
252+36	----		●		1				Grated drain inlet
253+36	256+45		●		5				Curve (space evenly)
253+36	256+46	●			5				Curve (space evenly)
255+35	----		●					2	Telephone pole
257+85	260+00		●		3				Curve, Rock face (space evenly)
257+85	260+00	●			3				Curve, Guardrail (space evenly)
261+50	263+50	●			3				Guardrail (space evenly)
263+75	----		●		2				Grated drain inlet
267+05	----		●	1					Below M1-6 Sign
268+50	----		●		1				Drop Off
268+50	----	●			1				Drop Off
270+00	----		●		1				Drop Off
270+00	----	●			1				Drop Off
270+75	----	●						2	Telephone pole
274+05	----		●					2	Telephone pole
276+00	279+00		●		3				Drop off (space evenly)
276+40	----	●						2	Telephone pole
280+00	----		●					2	Telephone pole
TOTALS				40	485	1	30	54	

Notes:

1. Remove all existing reflector markers, object markers, and posts unless otherwise directed by the Engineer.
2. Removal of existing reflector markers, object markers, and posts shall be considered incidental to the various signing items.
- * Stations may vary in the field. Final Marker locations are to be approved by the Engineer.
- ** RM-3 to be installed on Sign Posts, as directed by the Engineer.

DATE

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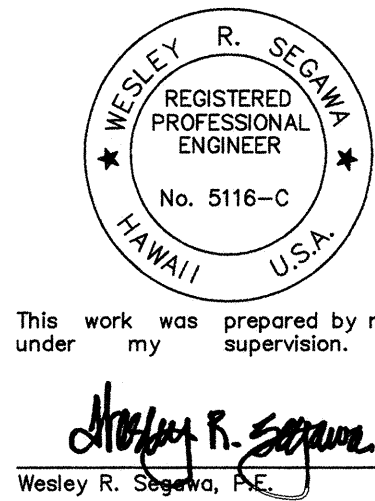
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STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

REFLECTOR AND OBJECT MARKER SCHEDULE

QUEEN KAAHUMANU AND KAWAIHAE

RESURFACING, ROUTE 19, MP 63.3 TO 69.5

PROJECT NO.19CD-01-97M

SCALE: None

Date: April, 1997

SHEET No. 4 OF 4 SHEETS

9704-36