

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(078)	2017	ADD. 7	12

GUARDRAIL WORK ITEMS - KAUMUALII HIGHWAY, ROUTE 50

M.P.	O/S	END	DEMOLITION	QTY
3.0	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
5.60	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
5.60	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
5.78	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
5.80	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
5.78	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
5.80	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
6.24	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
6.25	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
6.45	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
6.75	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
6.88	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
6.88	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
8.78	LT	Approach	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF & 5 Ea
12.0	RT	Approach	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF & 5 Ea
12.08	LT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF & 5 Ea

NOTE: TYPICAL FOR ALL LOCATIONS EXCEPT WHERE REPLACING ENTIRE GUARDRAIL SECTION:

1. Install MSKT-SP-MGS, SoftStop or approved equal terminal as per Manufacturer's Specifications - 1 Ea
2. Install Midwest Guardrail System (MGS) Transition From 31" Height to Existing Strong-Post Guardrail, 27³/₄" Height (See Sheet No. 10)
3. All new 12'-6" W-beam guardrail shall have 5 slotted holes.

*FOR THE FOLLOWING LOCATIONS, REPLACE ENTIRE GUARDRAIL SECTION
(Note: All new 12'-6" W-beam guardrail shall have 5 slotted holes)

- △ M.P. 6.18 to M.P. 6.21 Lt:
MSKT-SP-MGS, SoftStop or approved equal terminal as per Manufacturer's Specifications: 2 Ea
Guardrail, 31" Strong Post MGS with 6-Ft Posts: 37.5 LF
- △ M.P. 6.46 to M.P. 6.49 Rt:
MSKT-SP-MGS, SoftStop or approved equal terminal as per Manufacturer's Specifications: 2 Ea
Guardrail, 31" Strong Post MGS with 6-Ft Posts: 75 LF

- △ M.P. 11.41 TO M.P. 11.51 Rt:
MSKT-SP-MGS, SoftStop or approved equal terminal as per Manufacturer's Specifications: 2 Ea
Guardrail, 31" Strong Post MGS with 6-Ft Posts: 37.5 LF
- △ M.P. 11.5 to M.P. 11.517 Lt:
MSKT-SP-MGS, SoftStop or approved equal terminal as per Manufacturer's Specifications: 2 Ea
Guardrail, 31" Strong Post MGS with 6-Ft Posts: 12.5 LF

GUARDRAIL WORK ITEMS - KUHIO HIGHWAY, ROUTE 56

M.P.	O/S	END	DEMOLITION	QTY
1.05	LT	Approach	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF & 5 Ea
1.16	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
1.32	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
1.59	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
1.66	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
2.89	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
*6.18	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
*6.21	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
*6.46	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
*6.49	RT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF & 5 Ea
6.53	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
11.0	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
11.04	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
*11.49	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
*11.51	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
*11.50	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
*11.517	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
12.06	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
12.65	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea

8/28/17 - Replace Entire Guardrail Section

DATE REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GUARDRAIL WORK ITEMS	
GUARDRAIL & SHOULDER IMPROVEMENTS	
AT VARIOUS LOCATIONS, PART 4	
Federal Aid Project No. STP-0700(078)	
Date: August 2017	
SHEET No. 1 OF 3 SHEETS	

ORIGINAL PLAN

SURVEY PLOTTED BY

DRAWN BY

TRACED BY

DESIGNED BY

NOTED BY

CHECKED BY

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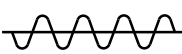
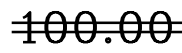
14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(078)	2017	8S-1	12

GUARDRAIL WORK ITEMS - KUHIO HIGHWAY, ROUTE 56 (CONTINUED)				
M.P.	O/S	END	DEMOLITION	QTY
21.40	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
21.40	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
21.42	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea
21.42	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF & 7 Ea

Note: This tracing prepared during "As-Built" posting.

- NOTE: TYPICAL FOR ALL LOCATIONS EXCEPT WHERE REPLACING ENTIRE GUARDRAIL SECTION:
- 1. Install MSKT-SP-MGS, SoftStop or approved equal terminal as per Manufacturer's Specifications - 1 Ea
 - 2. Install Midwest Guardrail System (MGS) Transition From 31" Height to Existing Strong-Post Guardrail, 27¾" Height (See Sheet No. 10)
 - 3. All new 12'-6" W-beam guardrail shall have 5 slotted holes

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL WORK ITEMS
GUARDRAIL & SHOULDER IMPROVEMENTS
AT VARIOUS LOCATIONS, PART 4
Federal Aid Project No. STP-0700(078)

Date: March 2017

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	1
DESIGNED BY	TRACED BY	
CHECKED BY	DESIGNED BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(078)	2017	ADD. 9	12

GUARDRAIL WORK ITEMS - KUHIO HIGHWAY, ROUTE 56 (CONTINUED)

M.P.	O/S	END	DEMOLITION	QTY
20.36	LT	Approach	Remove FLEAT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
20.67	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
20.71	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
20.72	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
20.86	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
20.88	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
22.00	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
22.04	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
23.012	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
23.02	RT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
23.08	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
23.15	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
*25.31	LT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
*25.34	LT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
25.31	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
25.34	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea

NOTE: TYPICAL FOR ALL LOCATIONS EXCEPT WHERE REPLACING ENTIRE GUARDRAIL SECTION:

1. Install MSKT-SP-MGS, SoftStop or approved equal terminal as per Manufacturer's Specifications - 1 Ea
2. Install Midwest Guardrail System (MGS) Transition From 31" Height to Existing Strong-Post Guardrail, 27³/₄" Height (See Sheet No. 10)
3. All new 12'-6" W-beam guardrail shall have 5 slotted holes

*FOR THE FOLLOWING LOCATION, REPLACE ENTIRE GUARDRAIL SECTION
(Note: All new 12'-6" W-beam guardrail shall have 5 slotted holes.)

▲ M.P. 25.31 to M.P. 25.34 Lt:
MSKT-SP-MGS, SoftStop or approved equal terminal as per
Manufacturer's Specifications: 2 Ea
Guardrail, 31" Strong Post MGS with 6-Ft Posts: 75 LF

GUARDRAIL WORK ITEMS - KUAMOO ROAD,, ROUTE 580

M.P.	O/S	END	DEMOLITION	
0.04	RT	Approach	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
0.10	LT	Approach	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
0.16	LT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
0.20	RT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
0.57	LT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
0.58	RT	Approach	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
0.77	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
0.78	RT	Approach	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
1.53	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
1.58	LT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
1.71	LT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
1.77	LT	Approach	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
1.92	RT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
3.67	RT	Trailing	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
3.68	RT	Approach	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
3.80	RT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea
3.88	RT	Approach	Remove SRT-350 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	50 LF @ 7 Ea
3.91	RT	Trailing	Remove ET-2000 End Treatment with Wood Posts	1 Ea
			Remove Guardrail & Steel Posts	37.5 LF @ 5 Ea

8/28/17	▲ - Replace Entire Guardrail Section
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GUARDRAIL WORK ITEMS	
GUARDRAIL & SHOULDER IMPROVEMENTS	
AT VARIOUS LOCATIONS, PART 4	
Federal Aid Project No. STP-0700(078)	
Date: August 2017	
SHEET No. 3 OF 3 SHEETS	