


NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY

1.

The Contractor shall obtain Permit to Perform Work upon State Highways from the Maui District Engineer, State Highways, at 650 Palapala Drive, prior to commencement of work within the State's highway right-of-way.
2.

Removal, construction and restoration of all existing highway facilities within the State's right-of-way, including the legal relations and responsibility to the public, shall be in accordance with the current Hawaii Standard Specifications for Road and Bridge Construction, and the Specifications for Installation of Miscellaneous Improvements within State Highways, of the State Highways Division.
3.

~~Work may not be performed between the peak hours of 6:00 a.m. to 8:30 a.m. and from 3:00 p.m. to 6:00 p.m., Monday through Friday, except State holidays, unless when otherwise approved in writing by the District Engineer.~~ 
4.

During work hours, only one lane of traffic shall be closed, unless otherwise approved in writing by the District Engineer. All lane closures must be approved by HDOT fifteen (15) working days in advance. All lane closures and detours shall require advisory signs and an advertisement per section 645.03 of the Standard Specifications.
5.

At certain locations, "NO LANE CLOSURE" will be allowed during the "Back To School Jam", Thanksgiving weekend, Christmas/New Year Period and at other times as directed by the Highways Division.
6.

The Contractor shall provide, install, and maintain all necessary signs, lights flares, barricades, markers, cones, and other protective facilities, and shall take all necessary precautions for the protection, convenience, and safety of public traffic. All such protective facilities and precautions to be taken shall conform with the "Administrative Rules of Hawaii Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways", adopted by the Director of Transportation, and the "U.S. Federal Highway Administration MUTCD - Manual on Uniform Traffic Control Devices, Part VI - Temporary Traffic Control, 2009 Edition",
7.

No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way, except at locations designated in writing and approved by the District Engineer.
8.

The Contractor shall exercise care to minimize damages to existing highway improvements. All damages shall be repaired by the Contractor, at his expense, to the satisfaction of the District Engineer.
9.

All regulatory, guide, and construction signs and barricades shall have a high-intensity Type III or IV retroreflective background.
10.

The Contractor shall inform the State Highway's Permit Office (873-3535) by noon Wednesday, one week prior to closing any lanes.
11.

Driveways shall be kept open unless the owners of the properties using these rights-of-way are otherwise provided for satisfactorily.
12.

Where pedestrian walkways exist they shall be maintained in a safe and passable conditions, or other facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be provided. All walkways shall conform to ADA requirements.
13.

The Contractor shall exercise care when performing work in or adjacent to the State highway right-of-way. Damages to the existing facilities shall be immediately reported to the respective utility companies, and/or City or State agencies. The repair work shall be done at the Contractor's expense.
14.

Highway lights shall be operational during construction. Should work be necessary, the contractor shall notify the State Highways' Highway Lighting Supervisor (873-3535), three (3) working days prior to commencing work.
15.

The Permit to Perform Work upon State Highways may be revoked because of default in any of the following, but not limited to, conditions:

a.

Work performed before of after permitted hours.

b.

Failure to maintain roadway surfaces in a smooth and safe condition.

c.

Failure to clean up construction debris generated from project work.

d.

Failure to provide proper traffic control.

e.

Failure to replace damaged pavement markings and signs.

f.

Failure to maintain highway lights and traffic signals systems.

g.

Failure to address public complaints to the satisfaction of the District Engineer.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	3/23
	NOTED BY	
	CHECKED BY	



4-13-23Delete Notes For Construction Within State Right-Of-Way Note 3.

DATEREVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES

HONOAPIILANI HIGHWAY  
GUARDRAIL & SHOULDER IMPROVEMENTS  
Vicinity of North Kihei Road to Hononaha  
Federal-Aid Project No. STP-030-1(058)R

Date: March, 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(058)R	2023	ADD.38	40

GUARDRAIL SUMMARY - BASE BID (MAKAI "OCEAN" SIDE)									
Project Guardrail Segment	Guardrail Type MGS (LF) (a)	Strong Post Thrie-Beam (LF) (a)	Type MGS Trans. Section (d)	End Terminal Treatment					Remarks (h)
				MASH Type A (e)	Modified Type 1-A (e)	MFLT (TL-3) (f)	MSKT-SP-MGS8 (TL-3) (e)	Trailing-End Anchorage System (g)	
Sta 65+15± to 72+65± Lt. (b)	662.5			1		1			100' Type MGS with 8-Ft. Posts
Sta 72+85± to 79+85± Lt.	625.0			1				1	
Sta 81+20± to 83+55± Lt. (b)	137.5			1			1		100' Type MGS with 8-Ft. Posts
Sta 85+25± to 93+25± Lt.	712.5			1		1			
Sta 93+60± to 94+85± Lt.	50.0				1			1	
Sta 97+70± to 103+45± Lt.	475.0			1	1				
Sta 105+95± to 108+95± Lt.	200.0			2					
Sta 371+75± to 376+65± Rt.	400.0			1		1			
Sta 365+15± to 371+45± Rt.	562.5				1			1	
Sta 355+95± to 364+05± Rt.	712.5				2				
Sta 346+00± to 352+10± Rt.	200.0	325.0			1	1			Thrie-Beam length includes transitions
Sta 334+40± to 345+00± Rt.	887.5	100.0			1			1	Thrie-Beam length includes transitions
Sta 327+45± to 332+05± Rt.	362.5				2				
Sta 320+70± to 323+55± Rt.	187.5				2				
Sta 316+20± to 318+30± Rt.	112.5				2				
Sta 309+20± to 315+05± Rt. (b)	487.5				2				100' Type MGS with 8-Ft. Posts
Sta 303+70± to 307+05± Rt.	237.5				2				
Sta 297+20± to 300+30± Rt.	212.5				2				
Sta 290+45± to 295+55± Rt.	412.5			1	1				
Sta 286+45± to 290+05± Rt.	262.5			2					
Sta 279+85± to 284+05± Rt.	325.0			1	1				
Sta 270+55± to 277+80± Rt.	625.0				2				
Sta 261+45± to 265+55± Rt.	312.5			1	1				
Sta 251+85± to 255+12± Rt.	237.5		1		1				Exist. trailing end terminal to remain (19')
Sta 244+80± to 247+05± Rt.	125.0				2				
Sta 235+85± to 240+85± Rt.	400.0				2				
Sta 224+70± to 234+05± Rt.	837.5				1		1		
Base Bid (Makai) - Sub-Totals:	10,762.5	425.0	1	13	30	4	2	4	
<div>⚠</div> Totals plus 10% Contingency:	11,850.0	475.0	1	14	33	4	2	4	

- ⚠

(a) Length rounded up to nearest 12.5-Foot increment
- (b) Includes Type MGS with 8-Ft. Posts
- (c) Includes Thrie-Beam with 8 Ft. Posts
- (d) Type MGS transition section (±25 LF, Each)
- (e) Average limit of payment (±50 LF, Each)
- (f) Average limit of payment (±40.0 LF, Each)
- (g) Average limit of payment (±25 LF, Each)
- ⚠

(h) Length of existing end treatments estimated
- ~~(i) Bid Alternative Sub-Totals include 10% Contingency~~

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	3/23
	TRACED BY	
	NOTED BY	
NOTE WORK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

<div>⚠</div>	4-13-23	Delete Totals Plus 10% Contingency Quantities
	4-13-23	Delete Footnote (i)
<div>⚠</div>	DATE	REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GUARDRAIL SUMMARY

HONOAPIILANI HIGHWAY  
GUARDRAIL & SHOULDER IMPROVEMENTS  
Vicinity of North Kihei Road to Hononaha  
Federal-Aid Project No. STP-030-1(058)R

Date: March, 2023

SHEET No. 1 OF 2 SHEETS

SURVEY PLOTTED BY  
DATE: 9/22

ORIGINAL  
PLAN

DRAWN BY  
LH

NOTED WORK  
mei,lay

QUANTITIES BY  
mei,lay

CHECKED BY  
mei,lay

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(058)R	2023	ADD.39	40

GUARDRAIL SUMMARY - BASE BID (MAUKA "MOUNTAIN" SIDE)									
Project Guardrail Segment	Guardrail Type MGS (LF) (a)	Strong Post Thrie-Beam (LF) (a)	Type MGS Trans. Section (d)	End Terminal Treatment					Remarks (h)
				MASH Type A (e)	Modified Type I-A (e)	MFLT (TL-3) (f)	MSKT-SP-MGS8 (TL-3) (e)	Trailing-End Anchorage System (g)	
Sta 69+55± to 71+30± Rt.	75.0			2					
Sta 75+45± to 77+45± Rt.	100.0			2					
Sta 80+75± to 83+25± Rt. (b)	150.0			2					50.0' Type MGS with 8-Ft. Posts
Sta 98+95± to 103+45± Rt. (b)	350.0			1	1				100.0' Type MGS with 8-Ft. Posts
Sta 371+90± to 375+75± Lt.	300.0			1		1			
Sta 365+95± to 367+55± Lt.	62.5				2				
Sta 363+20± to 364+05± Lt.	0.0				2				
Sta 355+95± to 360+05± Lt.	312.5				2				
Sta 347+50± to 350+75± Lt. (c)	0.0	325.0							50.0' Thrie-Beam with 8-Ft. Posts/New Connectors
Sta 335+95± to 338+05± Lt.	112.5				2				
Sta 327+45± to 329+05± Lt.	62.5			1	1				
Sta 321+20± to 324+30± Lt.	212.5				2				
Sta 309+45± to 314+30± Lt.	387.5				2				
Sta 304+75± to 306+30± Lt.	62.5				2				
Sta 298+45± to 300+05± Lt.	62.5				2				
Sta 286+95± to 289+55± Lt.	162.5				2				
Sta 279+95± to 283+05± Lt.	212.5				2				
Sta 270+95± to 272+45± Lt.	50.0				2				
Sta 262+45± to 263+20± Lt.	0.0				2				
Sta 258+30± to 259+90± Lt.	75.0		1		1				Exist. end terminal to remain (19')
Sta 253+95± to 255+12± Lt.	25.0		1		1				Exist. end terminal to remain (19')
Sta 225+85± to 228+10± Lt.	125.0				1		1		
Base Bid (Mauka) - Sub-Totals:	2,900.0	325.0	2	9	29	1	1	0	⚠
-Totals plus 10% Contingency:	3,200.0	362.5	2	10	32	1	1	0	

GUARDRAIL SUMMARY (ADDITIVE ALTERNATE #1)									
Project Guardrail Segment	Guardrail Type MGS (LF) (a)	Strong Post Thrie-Beam (LF) (a)	Type MGS Trans. Section (d)	End Terminal Treatment					Remarks (h)
				MASH Type A (e)	Modified Type I-A (e)	MFLT (TL-3) (f)	MSKT-SP-MGS8 (TL-3) (e)	Trailing-End Anchorage System (g)	
Sta 78+00± to 86+60± Lt.	800.0		1			1			Connect new guardrail to exist. guardrail section
Sta 131+60± to 146+40± Lt.	1,412.5						1	1	
Sta 143+75± to 144+85± Rt.	50.0					1		1	
Sta 146+80± to 154+50± Lt.	712.5					1		1	
Sta 156+00± to 169+00± Lt.	1,237.5					1		1	
Sta 176+50± to 181+00± Lt.	375.0						1	1	
Sta 200+50± to 234+50± Lt.	3,337.5					1		1	
Totals:	7,925.0	0	1	0	0	5	2	6	⚠
-Totals plus 10% Contingency:	8,725.0	0	1	0	0	6	2	7	

(a) Length rounded up to nearest 12.5-Foot increment  
(b) Includes Type MGS with 8-Ft. Posts  
(c) Includes Thrie-Beam with 8 Ft. Posts  
(d) Type MGS transition section (±25 LF, Each)  
(e) Average limit of payment (±50 LF, Each)  
(f) Average limit of payment (±40.0 LF, Each)  
(g) Average limit of payment (±25 LF, Each)  
(h) Length of existing end treatments estimated  
⚠ (i) Bid Alternative Sub-Totals include 10% Contingency

GUARDRAIL SUMMARY (TOTAL QUANTITIES) ⚠									
Project Guardrail Segment (i) ⚠	Guardrail Type MGS (LF) (a)	Strong Post Thrie-Beam (LF) (a)	Type MGS Trans. Section (d)	End Terminal Treatment					
				MASH Type A (e)	Modified Type I-A (e)	MFLT (TL-3) (f)	MSKT-SP-MGS8 (TL-3) (e)	Trailing-End Anchorage System (g)	
Base Bid Sub-Totals:	13,662.5	750.0	3	22	59	5	3	4	
Additive Alternate #1 Bid Sub-Totals:	7,925.0	0.0	1	0	0	5	2	6	
Totals:	21,587.5	750.0	4	22	59	10	5	10	

⚠	4-13-23	Delete Totals Plus 10% Contingency Quantities
⚠	4-13-23	Delete Footnote (i)
⚠	4-13-23	Revise Quantities In Guardrail Summary (Total Quantities) Table
DATE	REVISION	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GUARDRAIL SUMMARY

HONOAPIILANI HIGHWAY

GUARDRAIL & SHOULDER IMPROVEMENTS

Vicinity of North Kihei Road to Hononana

Federal-Aid Project No. STP-030-1(058)R

Date: March, 2023

SHEET No. 2 OF 2 SHEETS