

GENERAL NOTES

1. The scope of work for this project includes removing existing guardrail, end treatments and traffic signs, installing new metal guardrails, end treatments and traffic signs.
2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; and Section 645 - Work Zone Traffic Control.
4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. All new guardrail shall be Midwest Guardrail System (MGS) unless noted otherwise.
7. All lanes shall be open to traffic during the hours from 5:00 A.M. to 9:00 P.M. Only one lane of highway shall be closed at any other time. Night working hours are specified in Section 107 of the Special Provisions. Failure of the Contractor to open all lanes of traffic during the times specified above shall result in assessment of liquidated damages as specified in Section 108.09 of the Special Provisions.
- Lane shifting is allowed during guardrail work to allow traffic in both directions. The Contractor is allowed to close auxiliary and sheltered lanes if necessary. A traffic control plan shall be approved by the Engineer before shifting and/or closure of auxiliary and sheltered lanes.
8. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting operations.
9. Earth swale shall be graded to drain. Graded swales and shoulder shall be grassed. This work shall be considered incidental to the various contract items.
10. Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.
11. The Contractor shall provide for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to the various contract items.
12. No section where guardrails have been removed shall be left unattended at the end of each work day. Open sections shall be shielded by NCHRP-350 compliant devices. Furnishing, installing and maintaining of these devices shall be considered incidental to various contract items.
13. Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
14. 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 Engineer. If use of location is approved by the Engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the State Highways Division at telephone no. 241-3000.

15. Prior to commencing his operations, the Contractor shall contact the County of Kauai, Department of Water Operations Division (Phone No. 245-5444) and make arrangements for the Department to locate and mark the existing water facilities within the project limits, such as waterlines, valve boxes and manhole frame/covers (including ones that may have been inadvertently paved over on previous resurfacing projects). The tops of the existing valve boxes, manhole frame/covers, etc., shall be adjusted to match the new finished grades noted on the construction plans.
16. All workers within the State right-of-way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the requirements of ANSI/ISEA 107-2004, Performance Class 2 or 3. "Workers" is defined as people on foot whose duties place them within the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g., EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.
18. Prior to construction, the contractor shall contact the various utility agencies for location of existing utilities within the project limits. The Contractor shall locate and protect all existing utilities whether or not shown on the plans, Any costs incurred by damages to existing utilities will be borne by the Contractor. Contractor shall request from One-Call Center, Ph: 1-866-423-7287. The Contractor shall also call the County of Kauai, Department of Water, Ph: 245-5411 and the Wastewater Division, Ph: 241-6642 for toning waterlines and sewerlines respectively.
19. All works of toning, probing, hand digging and all other means of utility verifications shall not be paid for separately, but shall be considered incidental to the various contract items.
20. Should historic remains such as artifacts, burials, concentrations of shell or charcoal be encountered during construction activities, work shall cease immediately in the immediate vicinity of the find. The Contractor shall immediately notify the Planning Department at (808) 241-4050 and State Historic Preservation Division at (808) 692-8015, which will assess the significance of the find and recommend the appropriate mitigation measures, if necessary.
21. Removal and disposal of existing steel rail elements, W-Beam sections, end treatments, concrete foundations, steel rail post, traffic signs, backfilling and patching of holes in existing pavement resulting from guardrail removal and installation shall be considered incidental to the various contract items. Backfill material shall be approved by the Engineer. Pavement patching shall be done with hot mix asphalt or approved substitute by the Engineer.
22. The pay limit for MSKT-SP-MGS (TL-3), SoftStop Terminal (TL-3), and MAX-Tension (TL-3) is 50 L.F. in length, which shall be measured from Post 1 of the end terminal. Should the manufactured end terminal be less than 50 L.F. in length, the remaining length shall be considered incidental to the end terminal. All end terminal hardware extending beyond Post 1, such as hardware connecting to Post 0, shall also be incidental to the end terminal.

LEGEND

∘ <i>pp</i>	Existing Power Pole	▬ ▬	Existing Metal Guardrail
∘ <i>emh</i>	Existing Electric Manhole	▬ ▬ ▬	New Metal Guardrail
● <i>EMH</i>	Adjusted Elec. MH Frame/Cover	▬ ▬ ▬	Adjusted and/or Relocated Metal Guardrail
▢ <i>epb</i>	Existing Electric Pullbox	⊕ <i>fh</i>	Existing Fire Hydrant
∘ <i>tmh</i>	Existing Telephone Manhole	— <i>Δ</i> —12—	Existing Sewer Line
● <i>TMH</i>	Adjusted Tel. MH Frame/Cover	— <i>S</i> —12—	New 12" Sewer Line
▢ <i>tpb</i>	Existing Telephone Pullbox	∘ <i>Δmh</i>	Existing Sewer Manhole
— <i>w</i> —12—	Existing 12" Water Line	● <i>SMH</i>	Adjusted Sewer Manhole
∘ <i>wmh</i>	Existing Water Manhole	● <i>SMH</i>	New Sewer Manhole
● <i>WMH</i>	Adjusted Water MH Frame/Cover	⊙ <i>mon.</i>	Existing Monument
∘ <i>av</i>	Existing Water Air Valve	⊙ <i>MON.</i>	Adjusted Monument
● <i>AV</i>	Adjusted Water Air Valve	⊙ <i>MON.</i>	New Monument
∘ <i>wrv</i>	Existing Water Valve Box	--- <i>d</i> --24--	Existing 24" Drain Line
● <i>WV</i>	Adjusted Water Valve Box	∘ <i>Δdmh</i>	Existing Storm Drain Manhole
▢ <i>wrm</i>	Existing Water Meter Box	● <i>SDMH</i>	Adjusted Storm Drain Manhole
▢ <i>WM</i>	Adjusted Water Meter Box	▢ <i>gdi</i>	Existing Grated Drop Inlet
▢ <i>WM</i>	New Type "X" Water Meter Box		
▢	Existing Traffic Sign		
▢	New Traffic Sign		
▢ <i>GDI</i>	New Grated Drop Inlet		
▢ <i>GDI</i>	Adjusted/Reconstructed Drain Inlet or Replaced Steel Grate		

ORIGINAL PLAN	SURVEY PLOTTED BY _____		DATE _____
	DRAWN BY _____		_____
	DESIGNED BY _____		_____
	CHECKED BY _____		_____
NOTES BOOK _____	QUANTITIES BY _____		_____
	CHECKED BY _____		_____
NAME _____		_____	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES AND LEGEND
GUARDRAIL AND SHOULDER IMPROVEMENTS
AT VARIOUS LOCATIONS, PART 5
Federal-Aid Project No. STP-0700(083)
Date: Mar. 2019
SHEET No. 1 OF 1 SHEETS