

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-019-1(31)	2001	3	55

GENERAL NOTES

1. *This project includes removing existing guardrails, posts and end treatments; filling post holes; installing new metal guardrails, posts, and end treatments; resetting guardrail posts; replacing guardrail spacer blocks; installing reflector markers; providing traffic control; providing water pollution control and paving under guardrails.*
2. *The contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract which requires him to perform work amounting to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.*
3. *The contractor's attention is directed to the following sections of the Special Provisions: Subsection 107.13 - "Public Convenience and Safety", Subsection 107.21 - Contractor's Responsibility for Utility Property and Services, and Section 645 - Traffic Control.*
4. *The contractor shall notify the State in writing two (2) weeks prior to starting paving operations.*
5. *The encountering of underground utilities and other obstacles during the course of the work is possible. The contractor shall be held liable for any damages incurred to existing facilities and/or improvements as a result of his operations.*
6. *Longitudinal drainage along the highway shall be maintained.*
7. *All lanes shall be opened to traffic during morning peak hours from 6:30 am to 8:30 am, afternoon peak hours from 3:30 pm to 5:30 pm, off-work hours, and as directed by the Engineer. Only one lane of the highway shall be permitted to be closed during work hours.*
8. *Contractor shall provide for access to and from all existing side streets and Driveways at all times.*
9. *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.*
10. *Unprotected pavement dropoffs greater than 2" shall not be permitted during non-working hours, except when approved by the Engineer in writing.*
11. *The Contractor shall provide for the safe passage of bicyclists and pedestrians through the construction area.*
12. *The Contractor shall schedule his work around the annual Ironman Triathlon Race activities in September and/or October. All pavement and shoulder areas shall be restored to smooth riding condition, completely cleaned, and pavement striping installed 3 weeks prior to the date of the Ironman Triathlon Race. No construction work within the State Right-of-way shall be permitted during this period which interferes with the preparation and running of the race.*

GUARDRAIL NOTES

1. The locations and limits of guardrails shown on the plans are approximate. The Contractor shall stake-out guardrail locations in the field for acceptance by the Engineer.
2. Unless otherwise noted all guardrail elements shall be 12' - 6" nominal length.
3. For all Modified Type 'G' end treatments:
 - a) Provide a curve radius to extend the flare away from the travelway.
 - b) Use the 'Rounded End Section' in lieu of the 'Flared End Section' (Refer to Plan Sheet B-3).
4. Placement of Asphalt Concrete Mix V from edge of shoulder to 1 - 0" minimum beyond the guardrail post applies to the entire length of guardrail, including flared segments and end treatments unless otherwise noted.
5. All existing posts and guardrails for removal shall be disposed of by the contractor at no cost to the State. This work shall be considered incidental to the contract Item No. 606.3110 - Strong Post W-Beam Guardrail.
6. The Contractor shall provide new edge of pavement striping (equal or better than existing) and Type 'C' markers at each work site destroyed by his operation as determined by the Engineer. The Contractor shall also replace striping or reflector markers damaged by his operations. Payment for this work shall be incidental to various Contract Items.
7. Removal and reinstallation or relocation of existing signs for the purpose of guardrail removal and installation shall be incidental to Item No. 606.3110 - Strong Post W-Beam Guardrail. Signs damaged by the contractor's operations shall be repaired or replaced at no cost to the State.
8. All end treatments (Terminal, modified "A-I", "G", Fleet 350, etc.) not completed by day's end shall be properly delineated with Triton Barriers as directed by the Engineer. Payment for use of the Triton Barrier shall be considered incidental to guardrail installation.
9. Replacement of existing guardrails shall be completed within the same day. No unshielded areas shall be permitted at the end of the work day.
10. Grading and leveling for paving under guardrails shall not be paid for separately but shall be considered incidental to Contract Item No. 401-Asphalt Concrete Pavement Mix V.
11. Removal and grading of existing gravel mounds to match existing grade shall not be paid for separately but shall be considered incidental to various contract items.
12. Removal of existing guardrail, posts and end treatments shall not be paid for separately but shall be considered incidental to various guardrail items.
13. Installation of 8-ft. Guardrail post shall not be paid for separately but shall be considered incidental to various guardrail items.

LEGEND



Existing Sign to Remain



Install New Sign

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY <u>χ</u>	<u>χ</u>
	TRACED BY _____	•
	DESIGNED BY <u>χ</u>	•
	QUANTITIES BY _____	•
No. <u>499</u>	CHECKED BY _____	•

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

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 1 SHEETS