

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-K25	2003	3	30

LEGEND

	Existing Guardrail
	New Guardrail
	Adjust Guardrail
	New Guardrail on Existing Posts
	Exist. Type 'D' (Mounded) Terminal End
	Existing Joint Pole
	Existing Power Pole
	Existing Guy Pole
	Existing Electric Manhole
	Existing Telephone Line
	Existing Telephone Pole
	Existing Telephone Manhole
	Existing TV Cable
	Existing 12" Water Line
	Existing Water Manhole
	Existing Water Air Valve
	Existing Water Valve Box
	Existing Water Meter
	New Water Meter
	Existing Fire Hydrant
	Existing Sewer Line
	Existing Sewer Manhole
	Existing Monument
	Existing 24" Drain Line
	Existing Storm Drain Manhole
	Existing Grated Drop Inlet
	Existing Catch Basin
	Existing Traffic Sign
	existing edge of pavement
	existing edge of shoulder
	New edge of pavement
	New edge of shoulder

1. The scope of work for this project consists of removing and installing metal guardrails and posts; installing bike railing; constructing paved areas under new guardrail; constructing end treatments; and installing signs.
2. 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.
3. All lanes shall be open to traffic during morning peak hours from 6:30 A.M. to 8:30 A.M., during afternoon peak hours from 3:30 P.M. to 6:00 P.M. and during off work hours. Only one lane of highway shall be closed at any other time. 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 108.08 of the Special Provisions.
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 the work is possible. The Contractor shall tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of guardrail posts, sign posts, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will not be paid for separately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
7. Existing drainage systems shall remain functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.
8. The Contractor shall provide and maintain 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 and will not be paid for separately.
9. All new guardrail shall be Strong Post w/ W-Beam unless noted otherwise.
10. Connection to existing guardrail shall be considered incidental to Item No. 606.3130 - GUARDRAIL, STRONG POST w/ W-BEAM.
11. Removal of Breakaway Cable Terminal (BCT), including concrete foundations and backfilling holes shall be paid under Item No. 202.0413 - REMOVAL OF TYPE BCT TERMINAL END. Removal of steel rail and posts shall be paid under Item No. 202.0430 - REMOVAL OF GUARDRAIL AND STEEL POSTS.
12. Removal of Type 'C' and Type 'F' Terminal Ends (C and F), including concrete anchor blocks, grouted rubble paving and backfilling holes shall be paid under Item No. 202.0410 - REMOVAL OF TYPE 'C' AND 'F' TERMINAL END.
13. Removal of Type 'G' Terminal End, including concrete anchor block and backfilling hole, shall be paid under Item No. 202.0412 - REMOVAL OF TYPE G TERMINAL END.
14. Removal of Type D (mounded) Terminal End including removal of earth mound, concrete anchor block and any buried guardrail shall be paid under Item No. 202.0411 - REMOVAL OF TYPE 'D' TERMINAL END.
15. Removal of Rub Rails, posts, Bridge Terminal Connections, and W-Beam End Sections (Flared or Rounded) and appurtenances shall be considered incidental to Item No. 202.0430 - REMOVAL OF GUARDRAIL AND STEEL POSTS.
16. Removal of M.E.L.T., SRT and FLEAT terminal ends shall be paid under item No. 202.0430 - REMOVAL OF GUARDRAIL AND STEEL POSTS.
17. Concrete guardrail posts removed shall remain the property of the State. Contractor shall deliver salvaged posts to the Highways Baseyard at Kahau. St., Kapaa. Delivery shall be considered incidental to post removal.
18. No section of incomplete guardrail, footing and/or excavation shall be left unshielded at the end of each day. Open sections shall be shielded by portable physical barriers. Furnishing, placing and maintaining physical barriers shall be considered incidental to other contract items.
19. During working hours, open sections shall be delineated by placing Type II Barricades with flashers @ 40' O. C. and traffic cones @ 10' O. C. between barricades. Furnishing, placing and maintaining barricades and cones shall be considered incidental to other contract items.
20. When replacing existing guardrail, new guardrail shall be placed in the same location as existing guardrail, and no closer to highway unless noted otherwise on plans or approved by the engineer.
21. Where full embedment of guardrail post cannot be achieved, the Contractor shall nest the beam(s) in accordance with the latest State DOT, Traffic Branch alternative design guidelines. This work shall be considered incidental to various guardrail items.
22. All saw cutting shall be considered incidental to AC Pavement, Mix No. IV.
23. Existing reflector markers at guardrails are to be removed and any others noted to be removed shall be considered incidental to guardrail removal.
24. Unless noted to be removed and/or replaced, all existing signs shall remain. The Contractor shall replace any signs damaged during the course of construction at no cost to the State. The Contractor may elect to remove signs for the convenience of work. Removed signs shall be reinstalled at the end of each day's work and such removal and replacement shall be at no cost to the State.
25. The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
26. Removal and disposal of existing curb and gutter, curb, sidewalk and asphalt concrete pavement, curb, sidewalk and any debris shall be considered incidental to their respective bid items, unless noted otherwise.

DATE	2002
SURVEY PLOTTED BY	ALAN
DESIGNED BY	ALAN
TRACED BY	ALAN
NOTED BY	ALAN
QUANTITIES BY	ALAN
CHECKED BY	ALAN

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<b>GENERAL NOTES AND LEGEND</b>
<b>KAUMUALII HIGHWAY</b>
<b>Guardrail and Shoulder Improvements</b>
<b>Hanalei to Mana</b>
<b>Fed. Aid Project No. STP-050-K25</b>
Date: July 2002
SHEET No. 1 OF 1 SHEETS