

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-02-08	2008	2	16

- The scope of work for this project includes extending the right hand turn lanes on Hana Highway at the Haleakala Highway intersection. In addition, Hana Highway in the west bound direction will have the right hand lane extended toward Kala Road. This will involve clearing, grubbing, grading, relocating signs, removal and installation of guardrails, traffic striping, pavement markings, erosion control, constructing the additional necessary laneage and other work as may be shown on the plans.
- 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.
- 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.
- 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.
- The exact locations and limits or areas to be filled with leveling course, reconstructed and cold planed shall be determined in the field by the Engineer.
- The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- Smooth riding connections shall be constructed at all limits of resurfacing, including the beginning and end of project, connecting approaches, and side roads as shown on the plans and/or as directed by the Engineer.
- Dressing of shoulder shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items.
- Existing drainage system will be 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 various contract items.
- The contractor shall provide for access to and from all existing side roads at all times.
- All saw cutting work shall be considered incidental to Roadway Excavation.
- All construction signs shall be left in place until all construction items have been completed. Contractor shall obtain prior approval from the Engineer to remove construction signs.
- All work to remove temporary facilities by the Contractor shall be considered incidental to the various contract items in the proposal.
- The Contractor shall have existing utility lines toned prior to installing guardrails in the vicinity of the utility lines. If the proposed guardrail posts are within 3 feet of the utility lines, the Contractor shall excavate and expose the utility line determine alignment and depth. The Contractor shall install guardrails in these areas by acceptable methods other than driving, such as hand digging to prevent damages to the existing lines.

- Revegetation for temporary mulching and permanent restoration shall consist of primrose willow, job's tears and California grass. The areas of exposed ground shall be immediately hydromulched with the revegetation material to prevent erosion.
- Utility poles and obstructions shall be relocated outside of the clear zone unless otherwise shown on the plans.
- All structures within the clear zone shall be removed unless otherwise stated and shall be considered incidental to the various items of work.
- Traffic signs, posts, fences, guardrails shall be returned to the State Highway Baseyard. They shall be inventoried, and stockpiled on a pallet. Guardrail end treatments with footings shall become the property of the Contractor.

- All grading operations shall be performed in conformance with the applicable provisions of the Water Pollution Control and Water Quality Standards Contained in Hawaii Administrative Rules, Chapter 11-55, "Water Pollution Control" and Chapter 11-54, "Water Quality Standards" and if applicable, the NPDES permit for the project.
- Where applicable and feasible the measures to control erosion and other pollutants shall be in place before any earth moving phase of the grading is initiated.
- Temporary erosion controls shall not be removed before permanent erosion controls are in-place and established.
- Temporary erosion control procedures shall be submitted for approval prior to application for grading permit.
- If the grading work involves contaminated soil, then all grading work shall be done in conformance with applicable State and Federal requirements.
- Non-compliance to any of the above requirements shall mean immediate suspension of all work, and remedial work should commence immediately. All remedial work shall be billed to the Contractor. All remedial work shall be no cost to the State. Furthermore, violators shall be subjected to Administrative, Civil and/or criminal penalties.
- Prior to placement of any fill, the existing ground shall be scarified to a depth of six inches and compacted to a minimum of 90 percent compaction as determined by AASHTO T-180.
- After clearing and grubbing, additional roots and other vegetation found in the upper 6 to 8 inches shall be removed.

GRADING NOTES

- All grading work shall be done in accordance with Chapter 14, Articles 13, 14, 15 and 16 as related to grading, soil erosion and sediment control, of the revised ordinances of Honolulu, 1990, as amended.
- No Contractor shall perform any grading operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violations occur, the costs incurred for any remedial action shall be payable by the Contractor.
- The Contractor, at his own expense, shall keep the project area and surrounding area free from dust nuisance. The work shall be in conformance with the Air Pollution Control Standards contained in Chapter 11-60, "Air Pollution Control".
- The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depth of the facilities and exercise proper care in excavating in the area. Wherever connections of new utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
- Adequate provisions shall be made to prevent surface waters from damaging the cut face of an excavation or the sloped surfaces of a fill. Furthermore, adequate provisions shall be made to prevent sediment-laden runoff from leaving the site.
- All slopes and exposed areas shall be sodded or planted as soon as final grades have been established. Planting shall not be delayed until all grading work has been completed. Grading to final grade shall be continuous, and any area within which work has been interrupted or delayed shall be planted.
- Fill on slopes steeper than 5:1 shall be keyed.
- The Engineer shall be informed of the location of the borrow/disposal site for the project when the application for a grading permit is made. The borrow/disposal site must also fulfill the requirements of the grading ordinance.
- No grading work shall be done on Saturdays, Sundays and holidays at any time without prior notice to the District Engineer, provided such grading work is also in conformance with Hawaii Administrative Rules, Chapter 11-43, "Community Noise Control For Oahu".
- The limits of the area to be graded shall be flagged before the commencement of the grading work.

LEGEND

- ⊙_{mon} Existing Monument
- ⊙_{pp} Existing Power Pole
- ⊙_{tp} Existing Telephone Pole
- d--- Existing Drain Line
- ⊙_{dmh} Existing Storm Drain Manhole
- ⊞_{gdi} Existing Grated Drop Inlet
- in — Existing Irrigation Line
- ⊞ Existing Traffic Sign
- ⊞ Existing Traffic Sign With 2 Posts
- ⊞ New Traffic Sign With 2 Posts
- ⊙ Existing Highway Lighting Standard
- - - ⊞ Existing Metal Guardrail

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

**HANA HIGHWAY TRAFFIC
OPERATIONAL IMPROVEMENTS**
At Haleakala Highway
Project No. HWY-M-02-08

Date: May, 2008