

GRADING NOTES

1. The Contractor shall remove all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The costs incurred for any necessary remedial action by the Chief Engineer shall be payable by the Contractor.
2. The Contractor, at his expense, shall keep the project area and surrounding area free of dust nuisance. The work shall be in conformance with the Air Pollution Control Standards and Regulations of the State Department of Health.
3. All grading operations shall be performed in conformance with the applicable provisions of the Water Pollution Control and Water Quality Standards contained in the Public Health Regulations, State Department of Health, on Water Pollution Control and Water Quality Standards and the County Grading Ordinance.
4. All slopes and exposed areas shall be sodded or planted immediately after grading work has been completed. Contractor shall grass and maintain all exposed slopes such that 60% coverage will be achieved within 30 days and 95% coverage will be achieved within 60 days after planting.
5. Fills on slopes steeper than 5:1 shall be keyed.
6. Construction debris and wastes shall be deposited at an appropriate site. The Contractor shall inform the Engineer of the location of disposal sites. The disposal site must also fulfill the requirements of the Grading Ordinance.
7. The Contractor shall provide dust control and sprinklers and/or water-wagons as necessary, weekends and holidays included. All graded areas shall be thoroughly watered after construction activity has ceased for the day and for the weekend.
8. All exposed slopes shall be protected with temporary diversions, berms, and swales at the top of the slopes.
9. Existing topographic information is from a February 2011 survey map prepared by R.T. Tanaka Engineers, Inc. The Contractor should examine the site and take whatever measures necessary to verify conditions existing in the field.
10. Earthwork quantities shown are approximate and are to be used for obtaining a grading permit only. No adjustments have been made for losses due to grubbing and shrinkage nor for differing topographic conditions. The Contractor shall verify existing field conditions and prepare his own estimate and bid accordingly.
11. The Contractor shall perform all grading in conformance with the requirements specified in the Maui County Grading Ordinance and this project's specifications.
12. Approximate quantities: Area to be graded: 37.7 - Acres  
Roadway Excavation: 67,100 - CY.  
Detention Basin Excavation: 52,400 - CY.

DEMOLITION NOTES

1. Underground utilities (sewer, water, siphons, drainage, electrical, etc.) as shown are for information only and were gathered from available plans within the project area. Therefore, the location and/or depth of these utilities are approximate and are not guaranteed by the Consultants nor by the State of Hawaii. The Contractor shall be responsible to determine the location of these utilities and shall see to it that his workmen or operators shall be apprised of the utilities existence and location.
2. Contractor shall coordinate with utility companies or appropriate authorities for the removal and relocation of existing utilities in order that these works may proceed in a reasonable manner and will not delay the progress of the clearing, grubbing, and grading operations.
3. Any interruption of existing services shall be approved by the Director. Abandonment of existing utility lines and appurtenances shall be done only after the new utility systems are operational and accepted by the responsible agencies.
4. The Contractor shall contact the owners of the various utilities prior to the start of clearing and grubbing to coordinate the work to be done by the utility's own forces as well as to obtain from them any information pertaining to existing utilities that will either supplement the information shown on the plans or will correct any such information that may be in error.
5. Existing pipes to be abandoned shall be securely sealed with tight-fitting plug or a wall of Class "B" concrete not less than 6" thick.
6. All abandoned pipes under the new pavement and graded areas that are within 36 inches of the finished grade shall be removed.
7. All structures (concrete headwalls, etc.) to be removed shall be disposed of off-site to approved County dumpsite or to location designated by the District Engineer. Cost of disposal, including County dumpsite fees, shall be incidental to clearing and grubbing.
8. All existing improvements, utilities, traffic signs and landscaping that are to be removed, abandoned and/or relocated are shown on the various construction plans. Removal of all existing improvements, utilities, traffic signs and landscaping shall be considered incidental to various contract items.
9. The cost of pavement removal under new pavements, grassed islands, and medians shall be incidental to the various contract items.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0380(10)	2013	ADD. 7	166

PUBLIC HEALTH, SAFETY AND CONVENIENCE

1. The Contractor shall observe and comply with all Federal, State and local laws required for the protection of public health and safety and environmental quality.
2. The Contractor, at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in conformance with the air pollution standards and regulations of the State Department of Health.
3. The Contractor shall be responsible for the cleaning and removal of all silt and debris generated by his work and deposited and accumulated within downstream waterways, ditches and drain pipes and on public and private roadways. The Contractor agrees to reimburse the State the costs expended in performance of the above work if required for public health and safety, or made necessary by non-performance by the Contractor.
4. The Contractor shall submit a noise pollution control plan when applying for a construction permit.

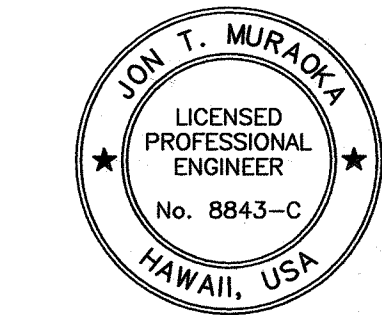
REQUIREMENTS OF STATE HISTORIC PRESERVATION DIVISION

1. Should historic sites such as walls, platforms, pavements and mounds, or remains such as artifacts, burials, concentration of charcoal or shells are encountered during construction work, work shall cease in the immediate vicinity of the find and the find shall be protected from further damage. The Contractor shall immediately contact the State Historic Preservation Division (243-5169), which will assess the significance of the find and recommend an appropriate mitigation measure, if necessary.

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

DRAWING NAME: C:\PROJECTS\KAHULUI-2011\PLANS\1-TITLE SHT & NOTES\1-7.DWG PLOT TIME: 04-08-13, 11:45 AM

4-1-13	Revised Quantities, Grading Notes #12
DATE	REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
APRIL 30, 2014  
FUKUNAGA & ASSOCIATES, INC. LIC. EXP. DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>CONSTRUCTION NOTES</b>	
KAHULUI AIRPORT ACCESS ROAD, PHASE I Federal Aid Project No. NH-0380(10) Scale: None Date: February 2013	
SHEET No. T-7 OF 13 SHEETS	