

ORIGINAL PLAN	DESIGNED BY	DATE
NOTE BOOK	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

GENERAL NOTES

- The scope of work for this project consists of, but is not limited to constructing new pavement for left turn storage lanes; constructing a retaining wall; constructing drainage improvements; and installing lighting, traffic signs, guardrail, and pavement markings.
- All work within the State Right-of Way shall be constructed in accordance with the current Hawaii Standard Specifications for Road, Bridge and Public Works Construction.
- The Contractor's attention is directed to Subsection 107.13-Public Convenience and Safety and Section 645-Traffic Control Devices of the Special Provisions and Section 107.21-Contractor's Responsibility for Utility Property and Service of the Standard Specifications.
- 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 the 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.
- All existing utility boxes to remain whether or not shown on the plans shall be adjusted to the final grade.
- The Contractor shall notify the State in writing two (2) weeks prior to starting paving operations
- The Contractor shall remove and dispose of all existing pavement markings and raised pavement markers prior to installing new work. This work shall be considered incidental to the various contract items.
- Unprotected dropoffs greater than 2" shall not be permitted during non-working hours, except when approved by the Engineer in writing.
- Smooth riding connections shall be constructed at all limits of the work including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans, and/or directed by the Engineer.
- Existing drainage system shall be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow, which shall be considered incidental to the various contract items.
- Contractor shall provide for access to and from all existing driveways and streets at all times.
- All saw cutting work shall be considered incidental to roadway excavation.
- All signs, except destination signs, shall be installed with square tube posts.
- All lanes shall be opened to traffic during the morning peak hours from 6:30 A.M. to 8:30 A.M., during afternoon peak hours from 3:30 P.M. to 5:30 P.M. and off peak hours or as directed by the Engineer. Two lanes for thru traffic shall be maintained on Hawaii Belt Road at all times, unless approved by the Engineer.
- Utility poles relocation shall be by others (Hawaii Electric Light Company and Verizon Hawaii).
- Excavated materials not used for fill or dressing purposes will be considered the property of the State and stockpiled at the storage area on Route 19, M.P.13.0. Coordinate stockpiling with Engineer.
- The Contractor shall be responsible for coordinating his work with work done by the Utility Companies. No additional contract time or payment shall be made for this coordination work.
- Where barricades and access is provided to the public, the route shall comply with ADAAG 4.1.194.

GRADING NOTES

- Contractor shall obtain a grading permit from the County of Hawaii. Grading work shall not commence until a grading permit is approved.
- The Contractor shall remove all silt and debris resulting from His work and deposited in drainage facilities, roadway and any other areas. The cost incurred for any necessary remedial action by the Engineer shall be payable by the Contractor.
- The Contractor, at His own 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.
- 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 to the Erosion and Sedimentation Control Standards and Guidelines of the Department of Public Works, County of Hawaii.
- All slopes and exposed areas other than in unweathered rock shall be sodded or planted immediately after the grading work has been completed.
- The County shall be informed of the location of the disposal site for the excess material from the project when the application for a grading permit is made. The disposal site must also fulfill the requirements of the grading ordinance.
- The County shall be informed of the location of the borrow site for the borrow, when the application for a grading permit is made. The borrow site must also fulfill the requirements for the grading ordinance.
- No grading work shall be done on Saturdays, Sundays and Holidays at any time without prior notice to the Chief Engineer.
- All vegetation shall be removed prior to placing fill on natural ground surface.

WATER NOTES

- All work shall conform to the County of Hawaii, Department of Water Supply's "Water System Standards, Volumes 1 and 2 Dated 1985, as amended.
- The Contractor shall notify the DWS Engineer 72 hours prior to the beginning of any waterline work and one week prior to any connection, chlorination, shut-off or relocation work.
- All work, equipment and material furnished by the DWS shall be paid for by the Contractor.
- All existing waterlines, waterline appurtenances and other utility locations shown on the plans are obtained from the latest available sources. The Contractor shall be responsible to verify the exact location of all utilities in the field and shall bear all costs for damages done during the contract period.
- All connections to existing waterlines shall be done by the Department of Water Supply. Contractor shall perform all excavation, backfill, road repair traffic control; and provide equipment necessary to complete the connection.
- Where water shut-off for more than 3 hours becomes necessary, the Contractor at his own cost shall provide a temporary by-pass line. The by-pass size shall be determined by the Engineer. If necessary, the DWS Engineer may require a by-pass line, regardless of the expected water shut-off period.

WATER NOTES - CONT.

- Minimum horizontal clearance between waterlines and utilities shall be 8 feet unless otherwise specified. Minimum vertical clearance between waterlines and other utilities shall be 12" provided concrete jackets are used, and 18" if no concrete are used. In all instances, the waterlines shall be at a grade higher than the other utilities.
- The waterline shall be tested at a minimum of 225 psi, at low point under BWS supervision.
- The Contractor shall be responsible for the chlorination of the water system and bear all costs. The persons engaged to do the chlorination work must be Licensed by the State of Hawaii and Approved by the Department of Health.

ARCHAEOLOGICAL NOTES

- Prior to commencement of construction, the Contractor shall arrange and hold a meeting with the State Historic Preservation Division and Appropriate construction Personnel to inform Construction Personnel of the location of Archaeological sites, protective measures to be taken and the need to protect the site.
- The Contractor shall erect barricade fencing and place portable concrete guardrail at the Archaeological Sites prior to commencement of construction.
- The barricade fencing and portable concrete guardrail placed at the Archaeological Sites shall remain until completion of construction.
- Representatives of the State will, from time to time, examine the work site as work proceeds to note if items of historical or suspected historical values exist. If such items are found, the State may order a halt to the work in the vicinity of the find until the State can further examine the find.
- The Contractor shall promptly notify the State if he finds anything which he suspects to be of historical significance and shall discontinue further work in the vicinity until the State can examine the find.
- In either case of work stoppage, further work in the vicinity of the find shall not proceed until approval to do so has been received from the State. Such approval can normally be expected within one week of the find and shall in no case require more than one month.

PUBLIC HEALTH, SAFETY AND CONVENIENCE

- 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.
- The Contractor shall be responsible for the cleaning and removal of all silt debris generated by his work deposited and accumulated within downstream waterways, ditches and drainpipes and on public and private roadways. The Contractor shall agree to reimburse the State of Hawaii for all costs expended in performance of the above work if required for Public Health and Safety, or made necessary by non-performance by the Contractor.
- The Contractor shall provide, install and maintain all necessary signs, lights, flares, barricades, markers, cones and other protective facilities and shall take all necessary precautions for the protection, convenience and safety of the public.
- The Contractor shall submit a noise pollution plan when applying for a construction permit.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GENERAL NOTES	
<u>Hawaii Belt Road</u> <u>Intersection Improvements</u> <u>At Kulaimano Road</u> <u>Project No. 19J-01-02</u>	
Scale: No Scale	Date: Feb. 2003
SHEET No. 1 OF 2 SHEETS	