

GENERAL NOTES







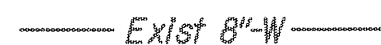
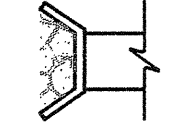
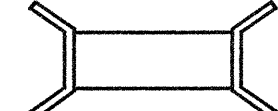

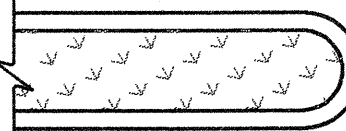
- The project consists of constructing a new four lane divided highway with acceleration/deceleration lanes, installing new traffic signal systems and street lights, installing drainage structures, installing new signs and reflector markers, installing pavement striping, markings, and markers, replacing and installing new guardrail, widening existing pavement and constructing new shoulders, extending existing drainage culverts, relocating existing drainage structures and drainage improvements, installing new reference survey markers, installing and maintaining landscaping, adjusting water lines, modifying driveways and side road connections removing and replacing pavement, constructing retaining walls, installing grouted rubble paving, and dump riprap. The plans include separate drawings for work required to accommodate a future connector road to service the proposed Kea'au High School. This work includes but is not limited to auxiliary lanes, drainage, signing and striping.
- 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 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
- 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 along the existing Volcano Road, Route 11, and Kea'au-Pahoa Road, Route 130.
- 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.
- The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.
- Existing Thermoplastic Extrusion Pavement Markings and Preformed Pavement Marking Tape shall be removed prior to resurfacing. Removal shall be by scraping, grinding or other method approved by the Engineer. Payment shall be incidental to Item No. 401.0400-Asphalt Concrete Pavement, Mix No. IV.
- Smooth riding connections shall be constructed with asphalt concrete including the beginning and end of project, connecting approaches, side streets and driveways 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 excavated 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. 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.
- Contractor shall provide for access to and from all existing side streets and driveways at all times.
- All pavement saw cutting work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately. Saw cutting limits to be determined in the field by the Engineer

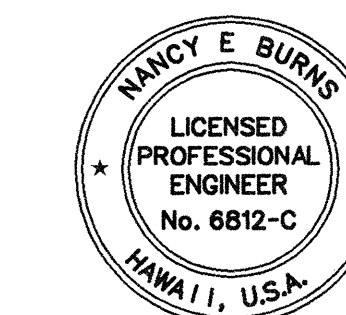
- The Contractor shall maintain 2 lanes for thru traffic movement at all times during non-peak hours on the existing Volcano Road, Route 11, and Kea'au-Pahoa Road, Route 130.
- Initial preparation of shoulder areas shall be done by the Contractor. Contractor shall also be responsible for finish rolling and maintaining the shoulders thereafter. This work shall be considered incidental to Item No. 401.0400 - Asphalt Concrete Pavement, Mix No. IV.
- Finish grade of the shoulder area to be paved shall be per Section 304 (B). Unless otherwise provided for in the contract, such work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV.
- Unprotected pavement dropoffs shall not be allowed during non-working hours, except where approved by the Engineer in writing.
- Provide 2' wide feathered taper for smooth riding lanes during non-working hours. Feathered tapers shall not exceed 0.75 miles in length at non-intersection areas. Feathered tapers shall be removed prior to the placing of the final overlay. Payment of feathered tapers shall not be measured and will be considered incidental to Asphalt Concrete Pavement, Mix No. IV.
- Public Notice is required for lane closures. Contractor shall submit notice to the Engineer for approval a minimum of six weeks prior to publication. Pre-approval of notice, with dates left blank, is permissible.
- Contractor's attention is called to new highway policies regarding guardrail end treatments. Hardware requirements may change as the policy is revised. Prior to ordering materials, the Contractor shall submit a list of all guardrail end treatment hardware to the Engineer for review and approval. Changes shall be handled on a contract change order basis.
- Edge of paved shoulders shall be dressed to grade with materials excavated from shoulder reconstruction. This work shall be considered incidental to Item No. 203.0100 - Roadway Excavation.
- Cold-planing of 50-ft. transitions at project limits, identified intersections, and exception areas shall be considered incidental to Item No. 401.0400 - Asphalt Concrete Pavement, Mix No. IV.
- Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and traffic at all times.
- Unsuitable material may be located at varying depths at the beginning of the project. Contractor is responsible for removal and disposal of unsuitable material off-site. This work shall be considered incidental to Item No. 203.0100 - Roadway Excavation. Refer to Geotechnical Engineering Exploration, Proposed Kea'au - Pahoa Bypass Road dated December 20, 1996 by Geolabs Hawaii.
- All new cut and fill slopes beyond the edge of shoulder shall be hydro-mulched.
- Contractor is to furnish materials, equipment, labor, tools and incidentals necessary for planting soil (top soil). This work shall be considered incidental to Roadway Excavation, Item No. 203.0100.
- Temporary Concrete Traffic Barriers will be available from State Airport's Division, Keahole International Airport. Transporting barriers from the Airport's Division to the project site shall be paid under Additional Police Officers and/or Additional Traffic Control Devices, Item No. 645.0200. The Contractor is responsible for maintaining and rehabilitating portable concrete barriers as specified in Standard Plans TE-64 throughout the Phase 1 construction project.

COUNTY DEPARTMENT OF WATER SUPPLY NOTES

- All Work shall conform to the Department of Water Supply's (DWS) "Water System Standards", Volumes I and II, dated 1985, as amended.
- Contractor's attention is called to DWS Standard Details 3, 9, 13 and 22 which require concrete slabs for valve frames and boxes.
- All existing waterlines, waterline appurtenances, and other utilities shown on the plans reflect the most recent information made available to this Department. The contractor shall be responsible for verification of the exact locations of all existing utilities in the field whether shown on the plans or not. The contractor shall bear all cost for damages done to the affected utilities.
- All solder and flux shall contain not more than 0.2 percent lead.
- The pipe cushion material for copper pipes shall be no. 4 fine manufactured sand, as specified in "Water System Standards" Volume I, part III, Section 2.2.2, Paragraph c2.

LEGEND

	New Guardrail
	Right of Way
	Slope Easement
	Toe of Fill Slope
	Top of Cut Slope
	Existing Tree
	Existing Water Line
	Riprap Apron
	Culvert
	Drainage Inlet
	Grassed Median



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
Nancy E. Burns
DATE: 8/8/97

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**MISCELLANEOUS NOTES
AND LEGEND**

KEA'AU-PAHOA ROAD VICINITY OF
KEA'AU TOWN (KEA'AU BYPASS ROAD)
PROJECT NO. 130B-01-92, PHASE 1
Scale: N/A Date: May, 1997

SHEET No. 1 OF 1 SHEETS