

General Notes

- The scope of work for this project consists of roadway maintenance repairs including installing concrete gutter, installing guardrail, and drainage improvements, including but not limited to culverts, inlets, swales, and headwalls.
- 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 30 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.
- 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.
- 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.
- All extended culverts will require a concrete collar at the connection of the new pipe to the existing pipe.
- The contractor shall provide for access to and from all existing side streets at all times.
- The contractor shall stakeout and clearly mark locations of new guardrails and end terminals to be installed and shall not proceed with installation until approval by the engineer.
- The contractor shall construct shoulder and install guardrail only one side of the highway at a time. Guardrail sections shall be installed complete with guardrail terminals before moving on to new locations. No section of incomplete guardrail shall be left unshielded at the end of each work day. Open sections shall be shielded by portable physical barriers. Placing, maintaining, reflecting, and removal of portable physical barriers shall be considered incidental to the various contract items.
- Prior to constructing guardrail supports and pounding guardrail posts, contractor shall verify locations of all existing underground facilities, structures, manholes, etc.
- Guardrails and posts that are to be removed shall be neatly bundled on pallets and delivered to the state highways baseyard at Keanae. This shall not be paid for separately but shall be considered incidental to guardrail pay items.


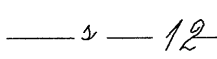
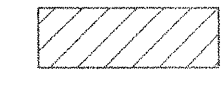
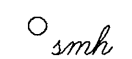


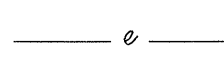



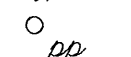
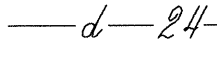
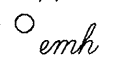
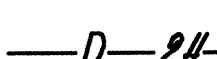
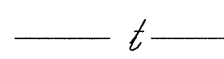
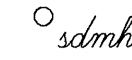


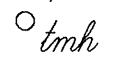

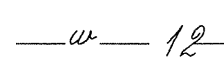
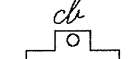




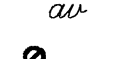

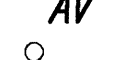



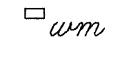



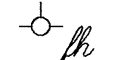
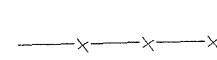
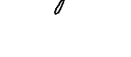

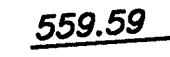


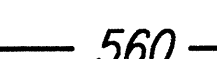
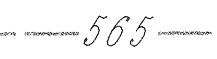

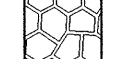
- The contractor shall post construction signs before the first construction site and past the last construction site, if the sites are less than 1 mile apart. Where the distance between sites are greater than 1 mile, construction signs shall be posted at each of these sites. Signs shall be visible to all traveling vehicles.
- The contractor shall verify load limitations of existing bridges on Hana Highway with the highways division's mauui district office prior to bidding. Load capacities of existing bridges shall not be exceeded during delivery of construction materials and equipment.
- Coordinates, azimuths and elevations on sites 8 and 9 are assumed.
- Azimuths and coordinates are referred to Government Survey Triangulation
- Unless Otherwise Noted On Guardrail Posts Shall Be 6'-0".
- All exposed concrete surfaces shll be stained to match the asphalt or surrounding color. Color samples shall be submitted for approval by the Engineer.
- Type 61614P and 61616P Grated Drop Inlet shall use the grates shown on Sheet 29. Frames shall be per Standard Plans H-13 & H-15. Drop Inlet shall be per Standard Plans H-11 & H-12.

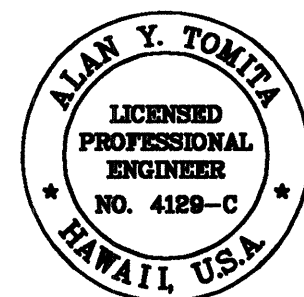
Striping Notes

- Layout of pavement markings and striping shall be done by the contractor and approved by the engineer prior to any installation work.
- Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the engineer. Costs shall be incidental to the various pavement marking items.
- Final locations of all stop lines shall be approved by the engineer prior to installation.
- All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360AB-02-00	2003	3	33

LEGEND

	Reconstruction Areas		Existing Sewer Line
	Paving at Guardrail		Existing Sewer Manhole
	New Pavement		Adjusted Sewer MH Frame/Cover
	Existing Electrical Line		Existing Monument
	Existing Joint Pole		Adjusted Monument
	Existing Power Pole		Existing 24" Drain Line
	Existing Electric Manhole		Existing 24" Drain Line
	Existing Telephone Line		Existing Storm Drain Manhole
	Existing Telephone Pole		Adjusted Storm Drain MH Frame/Cover
	Existing Telephone Manhole		Existing Grated Drop Inlet
	Existing 12" Water Line		Existing Catch Basin
	Existing Water Manhole		Existing Traffic Sign
	Adjusted Water MH Frame/Cover		Existing Highway Lighting Standard
	Existing Water Air Valve		Existing Edge of Pavement
	Adjusted Water Air Valve		Existing Edge of Shoulder (Paved and Stabilized)
	Existing Water Valve Box		Right-of-Way
	Adjusted Water Valve Box		Single White Line
	Existing Water Meter		Double Yellow Line
	Adjusted Water Meter		Existing Fence
	Existing Fire Hydrant		Grated Drop Inlet
			Finish Grade Elevation
			Existing Top of Bank
			Existing Bottom of Bank
			Finished Contour Elevation
			Existing Contour Elevation
			Headwall
			GRP



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

Alan Y. Tomita

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GENERAL NOTES & LEGEND	
HANA HIGHWAY IMPROVEMENTS Huelo To Hana Project No. 360AB-02-00	
Scale:	Date: March, 2003
SHEET No. 1 OF 1 SHEETS	