

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	580A-01-06M	2006	3	28

GENERAL NOTES

- The scope of work for this project includes reconstructing weakened pavement areas; cold planing; resurfacing; installing and/or adjusting standard street survey and centerline and reference survey monuments, drain inlets, water valve and meter boxes; removing and installing pavement markers and traffic signs; striping; and dressing of shoulders.
- The Contractor is reminded of the requirements of Subsection 108.01 - Subcontracts.
- 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, excavated, reconstructed and cold planed shall be determined in the field by the Engineer.
- All work on this project shall be conducted during daytime between 8:30 A.M. and 3:30 P.M. All lanes shall be open to traffic during peak hours from 6:30 A.M. to 8:30 A.M., during afternoon peak hours from 3:30 P.M. to 6:30 P.M. and during off work hours. Only one lane of highway shall be closed at any other time. Failure of the Contractor to open all lanes of traffic during the times specified above shall result in assessment of liquidated damages as specified in Section 108.09 of the Special Provisions.
- The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- The Contractor shall remove and dispose of all existing raised pavement markers and traffic tapes prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
- All holes, depressions and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. V prior to resurfacing. This work will be paid for under Asphalt Concrete Pavement, Mix No. V.
- Smooth riding connections shall be constructed at all limits of resurfacing, including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans.
- Trimming and dressing of shoulder, sidewalk and bus turnout 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. Suitable materials shall include materials from roadway excavation, including topsoil and base material therefrom, and if necessary, additional materials from borrow outside the limits of the right of way. Asphalt concrete removed from cold planing, reconstruction and roadway excavation shall not be used for dressing of shoulder, sidewalk or bus turnout. This work shall be considered incidental to the various contract items.
- Earth swale shall be graded to drain. 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 driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to the various contract items, and will not be paid for separately.
- All saw cutting work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
- Install new Type II Object Marker on all utility poles or trees that are within the State Highway Right-of-Way and within 30 feet of the roadway edge of pavement as directed by the Engineer. Refer to Standard Plan TE-17.
- Prior to his resurfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility & highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, electrical, telephone and cable utilities to be adjusted to the new finished grade.
- The Contractor will be required to locate all existing water valve boxes and maholes by scheduling an on-site field reconnaissance with the Department of Water Operations Division prior to any resurfaced work - Phone No. 245-5434. Failure to meet this requirement will subject the Contractor to all future costs involved in locating and raising any affected water valve boxes and manholes. Approximate locations of valve or meter boxes that are to be raised to the new finished grade are noted on the plans.

It shall be the responsibility of the Contractor to offset and record the locations of the valve or meter boxes as marked by the Department of Water for purposes of adjusting the valve or meter boxes to the new finished grades after completion of his resurfacing operations. The Contractor shall preserve all offset stakes marking the locations of the valve or meter boxes. If offset stakes are damaged or lost, it shall be the Contractor's sole responsibility to re-stake locations of the valve or meter boxes.

Adjusting meter boxes - If necessary, the existing service lateral piping shall be adjusted to maintain a spacing of 6 inches from the centerline of the piping in the meter box to the bottom of the meter box cover. In new sidewalk areas, replace the Type "B" meter box and cover with Type "X" meter box and cover. The top of all water meter boxes shall be flush with the new sidewalk surface.

- After completion of resurfacing, the Contractor and the Engineer will test for, and determine ponding areas (i.e. low spots within the resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas.
- Contractor shall exercise extreme caution to preserve BENCHMARKS (Survey Monuments). Whenever the center of a Survey Monument is less than three (3) feet from the edge of construction, the Contractor shall retain a Licensed Land Surveyor to reference the location of said Survey Monument.

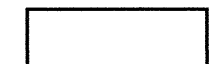
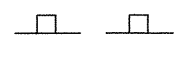
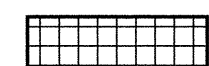
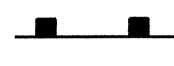

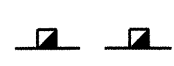

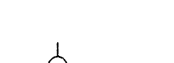
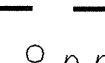
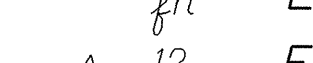
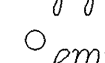
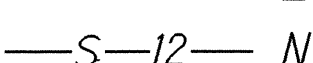


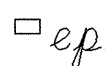

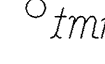

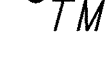
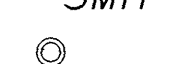
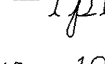
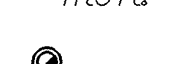
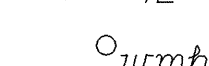
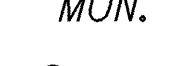



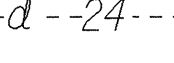

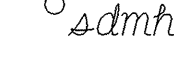
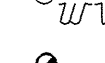

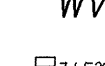
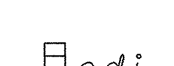
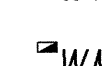
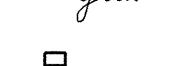





Benchmarks that are disturbed or destroyed shall be restored under a Licensed Land Surveyor's direction. Copies of field notes, descriptions and new values of the new benchmark shall be sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for review and approval prior to construction.

- The Contractor shall retain the services of a Hawaii licensed surveyor to establish control points at the beginning and end of project, points of intersection, intermediate points at intervals of 1000 linear feet, and all construction stakeout required to complete the job. In addition, Contractor's surveyor shall furnish benchmarks and stakeout monuments, property lines and right-of-way lines. Payment for surveyor's services shall not be paid for separately, but shall be considered incidental to contract Item No. 613.0110 - Centerline and Reference Survey Monument.

- All asphalt concrete materials from cold planing, reconstruction and roadway excavation operations shall become the property of the Contractor. The Contractor shall remove and dispose these materials at no cost to the State.

- Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
- No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated in writing and approved by the Engineer. If use of location is approved by the Engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the State Right-of-Way Branch at Tel. No. 692-7332.

LEGEND

	New Construction Areas		Existing Metal Guardrail
	Cold Planing Areas		New Metal Guardrail
	Reconstruction Areas		Adjusted and/or Relocated Metal Guardrail
	Resurfacing Limits		Existing Fire Hydrant
	Existing Power Pole		Existing Sewer Line
	Existing Electric Manhole		New 12" Sewer Line
	Adjusted Elec. MH Frame/Cover		Existing Sewer Manhole
	Existing Electric Pullbox		Adjusted Sewer Manhole
	Existing Telephone Manhole		New Sewer Manhole
	Adjusted Tel. MH Frame/Cover		Existing Monument
	Existing Telephone Pullbox		Adjusted Monument
	Existing 12" Water Line		New Monument
	Existing Water Manhole		Existing 24" Drain Line
	Adjusted Water MH Frame/Cover		Existing Storm Drain Manhole
	Existing Water Air Valve		Adjusted Storm Drain Manhole
	Adjusted Water Air Valve		Existing Grated Drop Inlet
	Existing Water Valve Box		New Grated Drop Inlet
	Adjusted Water Valve Box		Adjusted/Reconstructed Drain Inlet or Replaced Steel Grate
	Existing Water Meter Box		
	Adjusted Water Meter Box		
	New Type "X" Water Meter Box		
	Existing Traffic Sign		
	New Traffic Sign		

QUANTITY REPORTED BY	DATE
DRAWN BY	10/05
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

APPROVED:

For Bruce J. Jorgensen 4/13/06  
Manager & Chief Engineer Date  
Department of Water

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<b>GENERAL NOTES AND LEGEND</b>
<u>KUAMOO ROAD RESURFACING</u> <u>Vicinity of Hawaiiana Street to Liliu Place</u> <u>Project No. 580A-01-06M</u>
Date: March 2006

SHEET No. 1 OF 1 SHEETS