







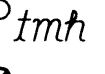
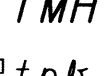
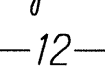

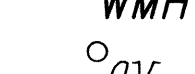

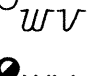
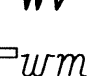


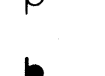





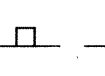
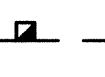
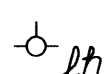
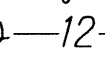
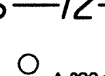


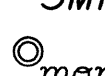


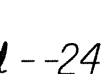
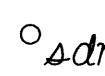

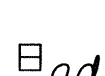
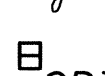

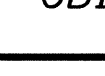
GENERAL NOTES

1. The scope of work for this project includes reconstructing weakened pavement areas; cold planing; resurfacing; reconstructing asphalt concrete pavement with ultra-thin whitetopping (UTW) ; removing existing asphalt curb and concrete gutter; constructing new concrete curb and gutter; adjusting street survey monument, grated drainage inlets and telephone pullboxes; removing existing pavement markings and traffic signs; installing new pavement markings and traffic signs; cleaning existing culvert and drainage structures and dressing and hydro-mulch seeding of shoulders.
2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; and Section 645 - Work Zone Traffic Control.
4. 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 with the exceptions of the conditions stated in note #7 below.
5. 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.
6. The exact locations and limits or areas to be excavated, reconstructed and cold planed shall be determined in the field by the Engineer.
7. A 24-hour 7-days a week lane closure may be allowed by the Engineer upon acceptance of a Contractor's modification to the traffic control plan. Provide at least one lane of traffic, having a minimum lane width of 11 feet. Provide traffic control plan that shall direct traffic to a detour route that has sufficient directions, e.g., signs, police officers, etc. to direct them to a route that takes them to their initial destination. Only paved lanes shall be opened for public traffic (non-construction vehicles). Do not utilize landscape areas as detour lanes or storage lanes.
- Traffic control plans shall be submitted to the Engineer for acceptance in accordance with Specifications Section 645 - Traffic Control. Payment for the development and implementation of the traffic control plans shall be paid for under contract Item No. 645.0100 - Traffic Control.
- Night time working hours are specified in Section 107 of the Special Provisions. Failure of the Contractor to comply with the above shall result in assessment of liquidated damages as specified in Section 108.09 of the Special Provisions.
8. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
9. The Contractor shall remove and dispose of all existing raised pavement markers and traffic tapes prior to the overlaying of Asphalt Concrete and/or UTW. This work shall be considered incidental to Item No. 418.0110 Ultra-Thin Whitetopping and will not be paid for separately.
10. 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.
11. Trimming and dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable materials as shown on the plans. Suitable materials shall include materials acceptable to the Engineer 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 shoulders, sidewalks, and bus turnouts, and shall be delivered to a location as directed by the Engineer. This work shall be considered incidental to the various contract items.

12. Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
13. 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.
14. Earth swale shall be graded to drain. Graded swales shall be grassed. This work shall be considered incidental to the various contract items.
15. All saw cutting asphalt concrete pavement including the handling and disposal of the slurry (cooling water and asphalt pavement sawdust) from the saw cutting shall be considered incidental to Item No. 402.0400 - Superpave Asphalt Pavement, and will not be paid for separately. Immediately vacuum cutting debris and water from surface as the sawing progresses. Slurry from saw cutting shall be handled and disposed of in accordance with the Water Pollution Control Note B - Waste Disposal on Plan Sheet No. 6.
16. 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.
17. 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 and/or repair all such ponding areas.
18. 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.
19. All new reference survey monuments shall be set under a Licensed Land Surveyor's direction. Copies of field notes, descriptions and values of the new survey monuments shall be sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for review and approval prior to construction.
20. Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and will not be paid for separately.
21. All asphalt concrete materials from cold planing, reconstruction and roadway excavation operations shall become the property of the State. The Contractor shall deliver these materials to the Lihue Airport's baseyard stockpile area. The Contractor shall separate the clean cold-planed material from the cold-planed material mixed with base course. This work shall be considered incidental to the various contract items.
22. 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 Highways Division at telephone no. 241-3000.
23. Removal and disposal of existing traffic signs shall be considered incidental to various contract items and will not be paid separately.
24. Removal and disposal of existing asphalt curb shall be considered incidental to Item No. 638.2000 - Curb Type 2 and will not be paid separately.

25. The Contractor will be required to locate all existing water valve boxes and manholes on the roadway pavement by scheduling an on-site field reconnaissance with the Department of Water Operations Division prior to any resurfacing 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 boxes and manholes that are to be raised to the finished grade are noted on the plans.
26. It shall be the responsibility of the Contractor to offset and record the locations of the valve boxes and manholes as marked by the Department of Water for purposes of adjusting the valve boxes and manholes to the new finished grades after completion of his resurfacing operations. The Contractor shall preserve all offset stakes marking the locations of the valve boxes and manholes. If offset stakes are damaged or lost, it shall be the Contractor's sole responsibility to re-stake locations of the valve boxes and manholes.
27. All workers within the State right-of-way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" is defined as people on foot whose duties place them with the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g., EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.

LEGEND

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KAPULE HIGHWAY RESURFACING
Ahukini Road to Kuhio Highway
Fed-Aid Proj. No. NH-051-K011

Date: April 2011

SHEET No. 1 OF 1 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	04/11
REFERENCE	TRACED BY	
REVISIONS	CHECKED BY	
NO.	QUANTITIES BY	