GENERAL NOTES

- 1. The scope of work for this project includes resurfacing; reconstructing weakened pavement; cold planing; adjusting and/or installing centerline and reference survey monuments; adjusting utility frames \$\phi\$ covers; removing and installing pavement markings and traffic signs; upgrading drainage systems; and dressing of shoulders.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. Lane closure is allowed only as specified in Special Provision Section 104. Travelway and shoulder work shall be performed at night except as allowed in Section 104. Failure to open all traffic lanes during times specified in Section 104 shall result in assessment of liquidated damage as specified in Special Provision Subsection 108.08.
- 7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- 8. 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.
- 9. 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. IV.
- 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. The Contractor shall provide for access to and from all existing driveways, sidewalks, ADA access routes, 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.
- 12. 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 salvaged from this project. 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 and bus turnout. This work shall be considered incidental to the various contract items.
- 13. Earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.
- 14. The Contractor shall remove and dispose debris and silt from existing culverts, including aprons and outlets, where grates are to be replaced. This work shall be incidental to drainage pay items.
- 15. All saw cutting work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.

- 16. 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.
- 17. Prior to his resurfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility \$\psi\$ 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. This work shall be considered incidental to the various contract items.
- 8. 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.
- 19. No section where guardrails have been removed shall be left unshielded at the end of each work day. Open sections shall be shielded by portable physical barriers. Furnishing, placing and maintaining physical barriers shall be considered incidental to the various contract items.

DRAINAGE NOTES

- 1. Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. The cost shall be incidental to the various contract items.
- The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at no cost to the State.
- 3. Only non-pneumatic type of drill as accepted by the Engineer will be permitted for drilling holes in concrete. Where indicated on the plans, the approximate diameter of drilled holes for installation of dowels shall be \(^1/8\) inch, and voids after installing dowels shall be filled with epoxy grout. The cost shall be incidental to the various contract items.
- A. Demolishing and removing portions of the existing inlet structure at #2 Sta. 15+12 Rt. shall not be paid for separately, but shall be considered incidental to the Modified Type 61614P Grated Drop Inlet.
- 5. Removing and disposing existing grates at \$\mathbb{B}\$ Sta. 21+80± Rt. and \$\mathbb{B}\$ Sta. 6+38± Rt. shall not be paid for separately, but shall be considered incidental to the Modified Type 61614P Steel Grates.
- Demolishing and removing portions of the existing concrete drop inlet at & Sta. 10+86 Lt. shall not be paid for separately, but shall be considered incidental to the Modified Type "A" Inlet Structure.
- 7. Demolishing and removing the existing grated drop inlet at B Sta. 15+46 Lt. shall not be paid for separately, but shall be considered incidental to the Type 61614P Grated Drop Inlet.
- 8. Cutting existing culverts flush with walls of new drainage inlets shall not be paid for separately, but shall be considered incidental to the various contract items.
- 9. Grading improvements at # Sta. 2+00 Rt. to # Sta. 3+60 Rt. shall not be paid for separately, but shall be considered incidental to the various contract items.
- 10. Chamfer all exposed concrete drainage structure edges 1".

LEGEND

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50C-01-01M	2003	3	32

Reconstruction Areas

Cold Planing Areas

Resurfacing Limits

°pp Existing Power Pole

oemh Existing Electric Manhole

*EMH Adjusted Elec. MH Frame/Cover

°_{tmh} Existing Telephone Manhole °_{TMH} Adjusted Tel. MH Frame/Cover

Adjusted Tel. Pullbox

—w—12— Existing 12" Water Line ○wmh Existing Water Manhole

• WMH Adjusted Water MH Frame/Cover

°av Existing Water Air Valve

• Adjusted Water Air Valve

°wv Existing Water Valve Box

• WV Adjusted Water Valve Box

• Water Valve Box Below Exist.
A.C. Pavement (to be Adjusted)

□wv Existing Water Meter

□wv Adjusted Water Meter

Existing Traffic Sign

___ Existing Metal Guardrail

■■■ New Metal Guardrail

_____Adjusted and/or Relocated Metal Guardrail

-⊱_{ft} Existing Fire Hydrant

△—12— Existing Sewer Line

___s—12— New 12" Sewer Line ___ o_{Amh} Existing Sewer Manhole

SMH Adjusted Sewer Manhole Frame/Cover

•_{SMH} New Sewer Manhole

_{mon.} Existing Monument

Monument

Monument

MON. New Monument

d--24--- Existing 24" Drain Line

--- Opamh Existing Storm Drain Manhole

*SDMH Adjusted Storm Drain Manhole

Frame/Cover

gai Existing Grated Drop Inlet

GDI New or Adjusted Grated Drop Inlet and/or Replace Existing Grates

Existing Catch Basin

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

<u>GENERAL NOTES AND LEGEND</u>

KAUMUALII HIGHWAY RESURFACING
Lawai Bridge to Halewili Road, Kalaheo

Project No. 50C-01-01M

Date: March 2003

SHEET No. 1 OF 1 SHEETS