

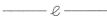
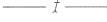
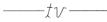
1. The scope of work for this project includes resurfacing; cold planing; reconstructing weakened pavement areas; removing existing metal guardrails; installing new metal guardrails, traffic signs and pavement markers; striping; adjusting inlets for storm drains, utility boxes, valves and manholes; installing and adjusting centerline and reference survey monuments; constructing concrete gutter; and dressing shoulders.
2. 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.
3. 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.
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.
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. The Contractor shall be responsible for toning all utilities at no cost to the State.
6. The exact locations and limits or areas to be filled with leveling course, reconstructed and cold planed shall be determined in the field by the Engineer.
7. All lanes shall be open to traffic during daytime hours. Work in the shoulder and travelway shall be done at night as specified in Section 104 of the Special Provisions. 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 108.08 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. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
10. All holes, depressions and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. V. This work will be paid for under Asphalt Concrete Pavement, Mix No. V.
11. Smooth riding connections shall be constructed at all limits of resurfacing, including the beginning and end of the project, connecting approaches, side streets and driveways as shown on the plans and/or as directed by the Engineer.
12. 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 cold-planed asphalt concrete therefrom, and if necessary additional materials from borrow outside the limits of the right of way. This work shall be considered incidental to the various contract items.
13. 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.
14. Existing earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.
15. The contractor shall provide for access to and from all existing side streets and driveways at all times.

16. All saw cutting work shall be considered incidental to *Contract Item No. 651.0100 - Excavation for Reconstruction of Weakened Pavement Areas.*
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, electrical, telephone, sewer and cable utilities to be adjusted to the new finished grade.
18. Install new Type II Object Marker on all utility poles or trees that are within the State Right-of-Way and within 30 feet of the roadway edge of pavement as directed by the Engineer.
19. Prior to commencing his resurfacing operations, the Contractor shall contact the County of Kauai's Department of Water Maintenance Branch (Phone No. 245-5444) and make arrangements for Department of Water personnel to "tone" for, and mark locations of existing valve boxes that may have been inadvertently paved over on previous resurfacing projects. Approximate locations of valve boxes that are to be raised to the new finished grade are noted on the plans.

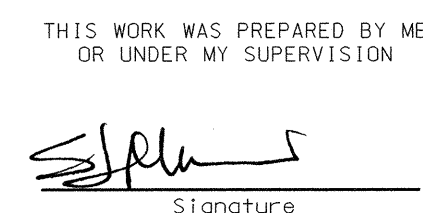
It shall be the Contractor's responsibility to offset and record locations of the valve boxes as marked by the Dept. of Water for purposes of adjusting the valve boxes to the new finished grades after completion of his resurfacing operations. The Contractor shall preserve all offset stakes marking locations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

Payment for work involved in locating paved over water valve boxes shall not be paid for separately, but shall be considered incidental to Item No. 604.4550 - Adjusting Water Valve Box Frame and Cover.
20. The Contractor's attention is directed to Section 401.03 (E) "Spreading and Finishing" of the Standard Specifications. Care shall be taken to insure longitudinal joints remain within 6" of the edge of the travelway to insure smooth, straight grades in the lane. The travelway shall be paved in one pass the full width through all lane transitions.
21. All new metal guardrails shall be single with strong posts, unless noted otherwise.
22. 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 other contract items. See Plan Sheet No. 7 for details.
23. During working hours, open sections shall be delineated by placing Type II Barricades with flashers @ 40' o.c. and traffic cones @ 10' o.c. between barricades. Furnishing, placing and maintaining barricades and cones shall be considered incidental to other contract items.
24. All cold plane material and all surplus selected material shall remain the property of the State. Transport to, and stockpile these materials at the State & County Baseyard, located at Lele Road in Hanapepe. The Contractor shall coordinate with the Maintenance Engineer (Phone No. 821-4440) to determine the exact locations for stockpiling these materials. Cold plane material shall be stockpiled separate from other materials. Transporting and stockpiling of cold plane material shall be considered incidental to Item No. 652.1000 - Cold Planing. Transporting and stockpiling of surplus selected material shall be considered incidental to Item No. 651.0100 - Excavation for Reconstruction of Weakened Pavement Areas.
25. Guardrail posts shall not be installed at centerline of a.c. or concrete gutter or swale. Use additional spacer blocks as needed to avoid installation of posts at centerline of gutter or swale. Additional spacer blocks shall not be paid for separately, but shall be considered incidental to the various contract items under Section 606 - Guardrail.

26. Removal and disposal of Type C, F and G Terminal Ends, including concrete anchor blocks, grouted rubble paving and backfilling holes shall be paid under Item No. 606.9300-Removal of Terminal End, Type C, F, or G. Removal and disposal of steel rail and posts at Type C, F and G Terminal Ends shall be paid under Item No. 606.9200-Removal of Guardrail and Steel Posts.
Removal and disposal of Breakaway Cable Terminal (BCT), including concrete foundations and backfilling holes, shall be paid under Item No. 606.9400-Removal of Terminal End, Type BCT. Removal and disposal of steel rail and posts at BCT Terminal End shall be paid under Item No. 606.9200-Removal of Guardrail and Steel Posts.
27. After completion of resurfacing, the Contractor and the Engineer will test for, and determine ponding areas (i.e. low spots within the resurfaced areas). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas.
28. Before working within the County's right of way, the contractor shall procure and pay for all County licenses and permits and shall give all notices necessary and incident to the due and lawful prosecution of work at no cost to the State.
29. Crosswalk at ~~St.~~ Sta. 95+19± shall have a maximum cross-slope of 2%.

	Construct New Pavement		4"-12" Sewer Line
	Reconstruct Pavement		Existing Sewer Manhole
	Cold Planing Areas		Adjust Sewer MH Frame/Cover
	Resurfacing Limits		Adjust Sewer Valve Box
	Existing Electrical Line		Existing Monument
	Existing Joint Pole		Adjust Monument
	Existing Power Pole		New Monument
	Existing Electric Manhole		Existing 24" Drain Line
	Adjust Elec. MH Frame/Cover		Existing Storm Drain Manhole
	Existing Telephone Line		Adjust Storm Drain MH Frame/Cover
	Existing Telephone Pole		Existing Grated Drop Inlet
	Existing Telephone Manhole		Adjust Existing Grated Drop Inlet or Replace Frame and/or Grate
	Adjust Tele. MH Frame/Cover		Existing Catch Basin
	Existing TV Cable		Existing Traffic Sign
	Existing TV Cable Pullbox		Existing Highway Lighting Standard
	Existing 12" Water Line		Adjust Utility Box
	Existing Water Manhole		Existing Guardrail
	Adjust Water MH Frame/Cover		New Guardrail
	Existing Water Air Valve		Existing Edge Shoulder
	Existing Water Valve Box		New Edge Shoulder
	Adjust Water Valve Box		Existing Edge Pavement
	Existing Water Meter		New Edge Pavement
	Adjusted Water Meter		Existing Highway Right of Way
	New Water Meter		
	Existing Fire Hydrant		

STATE OF HAWAII



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KAUMUALII HIGHWAY RESURFACING
Vicinity of Omao Road to Koloa Road
Project No. 50CD-02-00M

Scale: Not to Scale Date: August, 2000

SHEET No. 1 OF 1 SHEETS