

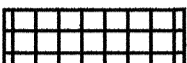


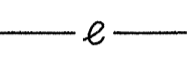

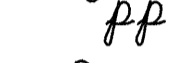

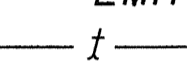
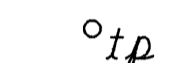
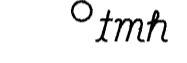

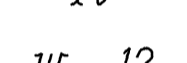
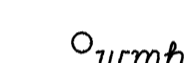

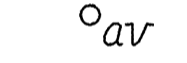

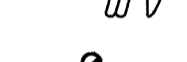
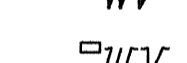


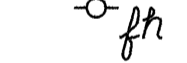


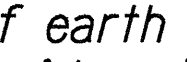

GENERAL NOTES

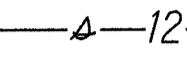





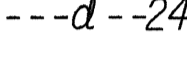
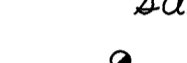
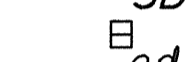

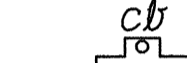


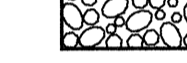



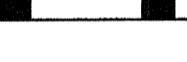



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50D-01-99M	1999	3	29

1. The scope of work for this project includes resurfacing, cold planing; adjusting utility boxes and manholes; removing and installing metal guardrail and posts; pavement markings and traffic signs, trimming and dressing of shoulders and repair of bridge joints.
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.
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, thermoplastic line markings, traffic tapes, and epoxy adhesives 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, wheel ruts and leveling areas as shown on the plans shall be filled and compacted with Asphalt Concrete Pavement, Mix No. IV, leveling course prior to resurfacing. This work will be paid for under Asphalt Concrete Pavement, Mix No. IV.
11. 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 and/or as directed by the Engineer.
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 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. 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 at all times.
16. All saw cutting work shall be considered incidental to 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.
18. 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 traveway shall be paved in one pass the full width through all lane transitions.
19. Filling, Trimming and Dressing of island median shall consist of grading, reshaping and compacting the unpaved median 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 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.
20. All saw cutting work shall be considered incidental to Roadway Excavation.
21. All new metal guardrail shall be Type 3, single w/steel posts unless noted otherwise.
22. Removal of Type D Terminal End (mounded end) including removal of earth mound, concrete anchor block and one length of guardrail shall be paid under Item No. 202.0450 - REMOVAL OF TYPE 'D' TERMINAL ENDS Removal of the earth mound (36 CY), concrete anchor block (1 CY), and one length of guardrail shall be considered incidental to Type 'D' removal
23. Connection to existing guardrail shall be considered incidental to Item No. 606.3130 - GUARDRAIL, TYPE 3, SINGLE WITH SPACER ON STEEL POST.
24. 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.
25. 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.

LEGEND

-  Reconstruct Pavement
-  Cold Planing Areas
-  Resurfacing Limits
-  Existing Electrical Line
-  Existing Joint Pole
-  Existing Power Pole
-  Existing Electric Manhole
-  Adjust Elec. MH Frame/Cover
-  Existing Telephone Line
-  Existing Telephone Pole
-  Existing Telephone Manhole
-  Adjust Tele. MH Frame/Cover
-  Existing TV Cable
-  Existing 12" Water Line
-  Existing Water Manhole
-  Adjust Water MH Frame/Cover
-  Existing Water Air Valve
-  Adjust Water Air Valve
-  Existing Water Valve Box
-  Adjust Water Valve Box
-  Existing Water Meter
-  Adjust Water Meter
-  New Water Meter
-  Existing Fire Hydrant
-  Adjust subdrain cleanout

-  Existing Sewer Line
-  Existing Sewer Manhole
-  Adjust Sewer MH Frame/Cover
-  Adjust Sewer Valve Box
-  Existing Monument
-  Adjust Monument
-  New Monument
-  Existing 24" Drain Line
-  Existing Storm Drain Manhole
-  Adjust Storm Drain MH Frame/Cover
-  Existing Grated Drop Inlet
-  Adjust Existing Grated Drop Inlet
-  Existing Catch Basin
-  Existing Traffic Sign
-  Existing Highway Lighting Standard
-  Existing CRM Wall
-  Adjust Utility Box
-  Adjust Grated Drop Inlet
-  Existing Guardrail
-  New Guardrail
-  Adjust Guardrail

DATE
SURVEY PLANNED BY
ORIGINAL PLAN
DRAWN BY
DESIGNED BY
NOTED BY
QUANTITIES BY
CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

KAUMUALII HIGHWAY RESURFACING
HULEIA BRIDGE TO MALUHIA ROAD
PROJECT NO. 50D-01-99M

Date: May, 1999

SHEET No. 1 OF 1 SHEETS