

GENERAL NOTES

1. Improvements consist of overlaying existing pavement with new asphalt concrete pavement; reconstructing pavement areas; installing drainage structures; trimming trees; installing and adjusting guardrails; installing concrete rubble masonry and grouted rubble masonry; adjusting and reconstructing reference survey monuments; adjusting utility appurtenances; replacing and installing new signs and reflector markers; and installing pavement striping, markings and markers.
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 the 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. Asphalt Concrete for leveling shall be paid for under Item No. 401.0500 - Asphalt Concrete Pavement, Mix No. V.
8. The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.
9. Preformed Pavement Marking Tape shall be removed prior to resurfacing. Removal shall be by scraping, grinding or other method approved by the Engineer. Payment shall be incidental to Item No. 401.0400 - Asphalt Concrete Pavement, Mix No. IV.
10. The Contractor shall remove and dispose of all existing raised pavement markers prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Item No. 401.0400 - 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. Dressing of shoulders shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable excavated material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to Item No. 651.0100 Excavation for Reconstruction of Weakened Pavement Areas.

13. Existing drainage system will be functional at all times during construction. Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.
14. Contractor shall provide for access to and from existing side streets at all times.
15. All saw cutting work shall be considered incidental to Item No. 401.0400 - Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
16. Initial preparation of shoulder areas shall be done by the Contractor. Contractor shall also be responsible for finish rolling and maintaining the shoulders thereafter. This work shall be considered incidental to Item No. 401.0400 - Asphalt Concrete Pavement, Mix No. IV.
17. Unprotected pavement dropoffs greater than 2" shall not be allowed during non-working hours, except where approved by the Engineer in writing.
18. Provide 2' wide longitudinal feathered taper for smooth riding lanes during non-working hours. Feathered tapers shall not exceed 0.75 miles in length at non-intersection areas. Feathered tapers shall be removed prior to the placing of the final overlay. Payment of feathered tapers shall not be measured and will be considered incidental to Item No. 401.0400 - Asphalt Concrete Pavement, Mix No. IV.
19. Public Notice is required for lane closures. Contractor shall submit notice to the Engineer for approval a minimum of three weeks prior to publication. Pre-approval of notice, with dates left blank, is permissible.
20. Cold-planing of 50-ft. transitions at project limits and bridge approaches shall be considered incidental to Item No. 401.0400 - Asphalt Concrete Pavement, Mix No. IV.
21. Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and bicycle traffic at all times.
22. The exact locations and limits of shoulder reconstruction shall be determined in the field by the Engineer. Payment for shoulder reconstruction shall be made under Item No. 203.0100 - Roadway Excavation and Item No. 312.0100 - Plant Mix Glassphalt Concrete Base Course.
23. Excess excavated material shall belong to the State and shall be disposed of or stockpiled as directed by the Engineer. All material to be stockpiled shall be taken to the State Highways stockpile area near the Alae Scenic Lookout. The Contractor shall be responsible for disposal of material not designated for stockpiling.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19J-01-97M	1997	3	35

COUNTY DEPARTMENT OF WATER SUPPLY NOTES

1. All Work shall conform to the Department of Water Supply's (DWS) "Water System Standards", Volumes I and II, dated 1985, as amended.
2. Contractor's attention is called to DWS Standard Details 3, 9, 13, 22 and 28 which require concrete slabs for valve and boxes, valve manholes, and fire hydrants.
3. All existing waterlines, waterline appurtenances, and other utilities shown on the plans reflect the most recent information made available to this Department. The Contractor shall be responsible for verification of the exact locations of all existing utilities in the field whether shown on the plans or not. The Contractor shall bear all cost for damage to affected utilities.
4. All solder and flux shall contain not more than 0.2 percent lead.
5. The pipe cushion material for copper pipes shall be no. 4 fine manufactured sand, as specified in "Water System Standards" Volume I, Part III, Section 2.2.2, Paragraph c2.

COUNTY WASTEWATER DIVISION NOTES

1. The Contractor shall immediately notify the Wastewater Division should any existing sewer be damaged. The sewer shall be repaired by the Contractor to the satisfaction of the Wastewater Division.
2. The Contractor shall provide barriers necessary to prevent materials and/or debris (i.e. coatings, concrete mortar, rocks etc.) from entering the sewer. The Contractor shall physically remove all material and/or debris that entered the sewer to the satisfaction of the Wastewater Division. The work may include flushing and/or use of a pipe pig.
3. All damaged and/or worn sewer manhole frame/cover shall be replaced.
4. All exposed concrete mortar surfaces on the adjustment section of the manhole frame/cover (PVC/epoxy lined manholes only) shall be coated with an approved liner (Fosroc or equal).
5. The Wastewater Division shall inspect all work applicable to the sewer system. The Contractor shall contact the Wastewater Division (961-8338) 48 Hours in advance to schedule an inspection.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY H. Kamae	12/96
DESIGNED BY D. Shiro		
QUANTITIES BY		
CHECKED BY		
N.		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

HAWAII BELT ROAD RESURFACING
PAUKA'A TO PAPA'IKOU
PROJECT NO. 19J-01-97M

Scale: NoneDate: Jan., 1997

SHEET No. 1 OF 1 SHEETS