

GENERAL NOTES

1. The scope of work for this project includes resurfacing the existing pavement; extending the shoulder; constructing retaining walls, inlet boxes, signs, guardrails, and pavement markings; extending culverts; and relocating signs and mailboxes, constructing pedestiran walkways and accessible routes for bridges; upgrading bridge end posts; adjusting survey street monuments, manhole frame and cover, valve boxes, and water meters; an installing street lights, underground electrical lines and boxes.
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 existing features as shown on the plans are from the "as-built" drawings, therefore the accuracy is not guaranteed. The Contractor shall be responsible for field verification of utilities and existing features prior to the start of construction and 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. The Contractor shall notify in writing, the Oahu Transit Services,, Inc. Roads Supervision Office. 811 Middle St, Honolulu, HI 96819 (ph. 848-4571) seven (7) days prior to any paving operations.
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 prior to the overlaying of Superpave A.C. Pavement. This work shall be considered incidental to Superpave A.C. Pavement 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 and/or as directed by the Engineer.
11. Dressing of shoulder 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. 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 is to 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 adjust centerline and reference survey monuments to the finished pavement grade.
14. Earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.

GENERAL NOTES (CONT.)

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. All steel plates will have a non-skid surface.
18. The Contractor shall coordinate construction of electrical, telephone, cable television and water line relocation work with Hawaiian Electric Company, GTE Hawaiian Tel, Oceanic Cable and Board of Water Supply, respectively. All coordination shall be considered incidental to Roadway excavation work.
19. The Contractor shall use extreme caution when excavating in the vicinity of the existing 30-inch water main. If the installation of the inlet box conflicts with the existing 30-inch water main, the Contractor shall cease all excavation operations and notify the Engineer immediately.
20. The Contractor shall review the Soils Investigation Report by Ernest Hirata & Assoc., Inc. and Amendments entitled "Soils Investigation Kamehameha Highway Rehabilitation, Waiahole Valley Road to Crouching Lion Inn, Waiahole-Kaawa, Oahu, Hawaii" dated February 4, 2000 and Addendum No. 1 dated dated June 28, 2000 for subsurface conditions.
21. The Contractor shall use the existing features to determine the exact location of improvements (guardrails, pavement, signs, etc.). Stationing shown on plans are only approximate. The Contractor shall bid according to this condition and shall expect adjustments to the location of improvements during construction.
22. The contractor is hereby notified that historical sites are located within the project limits. The following are considered historical sites: the Sugar Mill Ruins at Sta. 731+50 and the Coral House and Kamani tree at Sta. 746+80±. The Contractor shall be responsible for any damage to these sites caused by his operations. If any of these sites are damaged during construction, the contractor shall stop all construction operations in the area immediately and contact the Engineer and the State Historic Preservation Division office. The cost to repair all damages to these historical sites shall be paid for by the Contractor.

1/3/03	Revised Cold Planing Note # 1 Per Change Order
2/4/02	Revised Cold Planing Note #4 Per Addendum No. 2.
DATE	REVISION

COLD PLANING NOTES

1. Prior to cold planing over existing structures other than bridges, the Contractor shall determine the actual depth of the existing asphalt concrete pavement. The Contractor shall take several cross section measurements throughout the structure. If the thickness of the existing pavement is less than the proposed resurfacing thickness, the Contractor shall remove the existing pavement to the level of the structure and resurface to the original thickness. This work shall be considered incidental to cold planing, and will not be paid for separately.
2. In cold planing the pavement over a structure, the Contractor shall exercise care not to damage any portion of the structure (especially the slab, joints, drain pipes or reinforcement). Any damage to the structure during the cold planing operations shall be repaired by the Contractor at his own expense . Repair work shall be as directed by the Engineer. The Contractor shall verify the existing pavement thickness by hand digging at various locations. This work shall be considered incidental to cold planing, and will not be paid for separately.
3. Exposure of existing aggregate base is expected when cold planing deeper than 4 inches. The Contractor shall pave over exposed existing aggregate base with the new Asphalt Base Course at the end of each day. Contractor shall compact the existing aggregate base in accordance with Section 301 Asphalt Base Course and apply Prime Coat in accordance with Section 408 – Prime Coat, prior to laying the new Asphalt Base Course. This work shall be considered incidental to the new Asphalt Base Course, and will not be paid for separately.
4. If a vertical pavement drop-off exists at the end of each day's cold planing and paving, the Contractor shall provide a wedge with a 48:1 minimum transition taper for transverse drop-off and no steeper than 6:1 for longitudinal drop-off as approved by the Engineer. This work shall be considered incidental to Cold Planing.

LEGEND

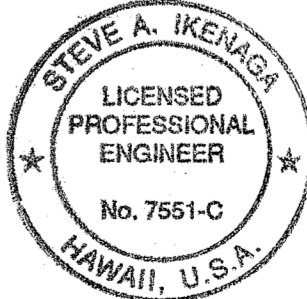
- Reconstruction Areas
- Cold Planing Areas
- Existing Electrical Line
- New Electrical Line
- Existing Joint Pole
- Existing Power Pole
- Existing Electric Manhole
- Existing Telephone Line
- New Telephone Line
- Existing Telephone Pole
- Existing Telephone Manhole
- Existing Signal Corps Line
- New Signal Corps Line
- Existing TV Cable
- New TV Cable
- Existing 12" Water Line
- New 12" Water Line
- Existing Water Manhole
- Adjusted Water MH Frame/Cover
- Existing Water Air Valve
- New Water Air Valve
- Existing Water Valve Box
- Adjusted Water Valve Box
- New Water Valve Box
- Existing Water Meter
- Existing Fire Hydrant
- Existing Sewer Line
- Existing Sewer Manhole
- Existing 6" Gas Line
- Existing Gas Valve Box
- Existing Gas Manhole
- Existing Monument
- Adjusted Monument
- Existing 24" Drain Line
- New 24 " RCP Drain Line
- Existing Storm Drain Manhole
- Existing Grated Drop Inlet
- Existing Catch Basin
- Existing Traffic Sign
- Existing Highway Lighting Standard
- Existing Contour
- Finished Contour

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	C.O. ADD.3	121

ABBREVIATION LIST

AC	ASPHALT CONCRETE
BL	BASELINE
CL	CENTER LINE
C	CHORD LENGTH
CONC.	CONCRETE
CONN.	CONNECTION
D.L.	DRAIN LINE
DIA.	DIAMETER
DMH	DRAIN MANHOLE
EMB.	EMBANKMENT
EMH	ELECTRICAL MANHOLE
E.P.	EDGE OF PAVEMENT
E.S.	EDGE OF SHOULDER
E.W.	EACH WAY
EXC.	EXCAVATION
FH	FIRE HYDRANT
FT.	FOOT
HECO	HAWAIIAN ELECTRIC COMPANY
HGL	HYDRAULIC GRADE LINE
HORIZ.	HORIZONTAL
HT.	HEIGHT
INV.	INVERT
Lc	LENGTH OF CURVE
LF	LINEAR FEET
LT.	LEFT
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
O/S	OFFSET
O.C.	ON CENTER
PL	PROPERTY LINE
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
R	RADIUS
R.O.W.	RIGHT-OF-WAY
RT.	RIGHT
S	SLOPE
SHT.	SHEET
STA.	STATION
STD.	STANDARD
STRUCT.	STRUCTURAL
T	TANGENT LENGTH
TEMP.	TEMPORARY
TYP.	TYPICAL
V.C.	VERTICAL CURVE
WMH	WATER MANHOLE
WV	WATER VALVE

DATE	DATE
DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY
NO.	NO.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

Date: August 1, 2000