

GENERAL NOTES

1. The scope of work for this project consists of cold planing; asphalt paving; shoulder widening; applying pavement striping and marking; installing sidewalks and concrete bus pads; re-constructing concrete gutters; and replacing guardrails, end treatments and signs. The Kipapa Bridge (Roosevelt Bridge) is excluded from the project.
2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
3. The Contractor's attention is directed to the following Sections: Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone 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 location and existence of underground utilities, manholes, monuments and other 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 make an independent check on the ground by probing and/or checking with the various utility companies and government agencies to verify the exact locations and depths of the existing utilities and obstructions. The Contractor shall exercise proper care in excavating and cold planing in the area. Whenever connections of new utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavating new lines. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations. All damaged portions shall be replaced or repaired in accordance with the standards and specifications of the affected utility company at the Contractor's expense.
6. The Contractor shall notify in writing, the Oahu Transit Services, Inc. (Tel. No. 848-4571) two (2) weeks prior to construction, informing them of location, scope of work, closure of the name of the highway and/or traffic lanes, and dates of closure.
7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
8. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damages shall be at the Contractor's own expense, to the satisfaction of the Engineer.
9. Existing drainage system shall be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.
10. Earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.
11. Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items.
12. All saw cutting and safety edge work shall be considered incidental to Hot Mix Asphalt Pavement, Mix No. IV.
13. 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 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.

14. The Contractor shall provide and maintain 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.
15. 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 Hot Mix Asphalt Pavement, Mix No. IV.
16. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated in writing and approved by the Engineer. If use of location is approved by the Engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the Oahu District Office at telephone no. 831-6712.
17. The exact locations and limits of areas to be filled with leveling course, cold-planed, reconstructed, or excavated shall be determined in the field by the Engineer.
18. All holes, depressions and wheel ruts shall be filled and compacted with Hot Mix Asphalt Pavement, Mix No. V prior to resurfacing. This work shall be considered incidental to the various contract items.
19. Prior to his paving operations, the Contractor shall be responsible for locating, preserving and marking all utility and highway facilities that will require adjustments to the new finished grade. The Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, gas, electrical, telephone and cable utilities, etc. to be adjusted to the new finished grade.
20. 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 at no cost to the State.
21. The Contractor shall verify the presence of existing aerial and underground utilities which may conflict with construction activities and shall coordinate with the utility company for temporary relocation, as necessary. All costs associated with the temporary relocation shall be borne by the Contractor.
22. The Contractor shall obtain all necessary permits prior to start of work at his own cost.
23. The exact locations and limits of guardrail improvements shall be determined in the field by the Engineer.
24. The Contractor shall submit maintenance plans and schedules, including traffic detours, road or lane closures, lane switches, and the placement of temporary traffic control devices, to the Engineer for acceptance prior to construction.
25. 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, installing and maintaining physical barriers shall be considered incidental to the various contract items.
26. All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to the various contract items.
27. The Contractor shall allow only one truck to cross Kipapa Bridge at a time during road closure hours. Truck weight shall not exceed 32 tons. Maximum weight limit for the Kipapa Bridge is 32 tons. Contractor must have a permit to operate or transport overweight vehicles and load over State Highways. This permit is obtained from the State Department of Transportation, Oahu District Office, 727 Kakoi Street.

LEGEND

	Concrete Areas		Existing Sewer Manhole
	Reconstruction Areas		Adjusted Sewer MH Frame/Cover
	Cold Planing Areas		New Sewer Manhole
	Resurfacing Limits		Existing 6" Gas Line
	Existing Electrical Line		New 6" Gas Line
	New Electrical Line		Existing Gas Valve Box
	Existing Joint Pole		Adjusted Gas Valve Box
	Existing Power Pole		Existing Gas Manhole
	Existing Electric Manhole		Adjusted Gas MH Frame/Cover
	Adjusted Elec. MH Frame/Cover		Existing Monument
	Existing Telephone Line		Adjusted Monument
	New Telephone Line		Existing 24" Drain Line
	Existing Telephone Pole		New 24 " RCP Drain Line
	Existing Telephone Manhole		Existing Storm Drain Manhole
	Adjusted Tele. MH Frame/Cover		Adjusted Storm Drain MH Frame/Cover
	Existing Signal Corps Line		New Storm Drain Manhole
	New Signal Corps Line		Existing Grated Drop Inlet
	Existing TV Cable		Existing Catch Basin
	New TV Cable		Existing Traffic Sign
	Existing Sandwich Isles Communication Line		Existing Highway Lighting Standard
	Existing 12" Water Line		Existing Highway Lighting Pullbox
	Existing Water Manhole		Existing Traffic Signal Pole
	Adjusted Water MH Frame/Cover		New Traffic Signal Pole
	Existing Water Air Valve		Existing Traffic Signal Pullbox
	Adjusted Water Air Valve		Adjusted Traffic Signal Pullbox
	New Water Air Valve		New Traffic Signal Pullbox
	Existing Water Valve Box		Existing Metal Guardrail
	Adjusted Water Valve Box		New Metal Guardrail
	Existing Water Meter		Existing Chain Link Fence
	Adjusted Water Meter		New Chain Link Fence
	Existing Fire Hydrant		
	Existing Sewer Line		
	New 12" Sewer Line		

1 1/22/14 Revised Note #12 and Added Note #27.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES AND LEGEND
KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

Date: Sept., 2013

SHEET No. 1 OF 2 SHEETS

ADD. 3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	4	84

PAVING AROUND MANHOLES

1. The Contractor shall first lower manholes more than 3½" prior to cold planing. The work shall be considered incidental to the various paving contract items. Upon final paving, the manhole shall be raised and paid under the various contract items pertaining to manhole adjustments.
2. The Contractor shall place hot asphalt concrete around manholes and compact properly with a vibrating plate compactor.
3. If a plate compactor is not used, the Contractor shall use a pneumatic roller to roll the area around the manhole.
4. The Contractor shall fog seal or brush emulsion seal on the material placed as backfill on the area around the manhole that was not compacted by the roller. Black sand shall be used to blot out the area if the fog is too heavy.

HAWAII ONE CALL CENTER

1. Before you conduct any excavation in the public right of way or on private property, call the Hawaii One Call Center at least five (5) working days before you plan to dig. Be sure to give them the address and location of the nearest cross street(s) near where you plan to dig.

Call 811 toll-free 24 hours a day.
For more information, go to www.callbeforeyoudig.org

2. The Hawaii One Call Center will contact all utility companies to tone, mark, or identify the location of their underground utilities for free. Mark the area where you plan to excavate in White and label all of the other utilities as listed below.

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| RED | Electric power lines, cables, or conduits, and lighting cables. |
| YELLOW | Gas, oil steam, petroleum or other hazardous liquid or gaseous materials. |
| ORANGE | Communications, cable TV, alarm or signal lines, cables, or conduits. |
| BLUE | Water, irrigation, and slurry lines. |
| GREEN | Sewers, storm sewer facilities or other drain lines. |
| WHITE | Proposed excavation |
| PINK | Temporary survey markings. |
| PURPLE | Reclaimed water, irrigation and slurry lines. |

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE

NOTE BOOK	DRAWN BY	_____

_____	DESIGNED BY	_____

_____	QUANTITIES BY	_____

_____	CHECKED BY	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND
KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)
Date: Sept., 2013

SHEET No. 2 OF 2 SHEETS