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; reconstructing 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.
- $/1 \setminus 12$. 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.

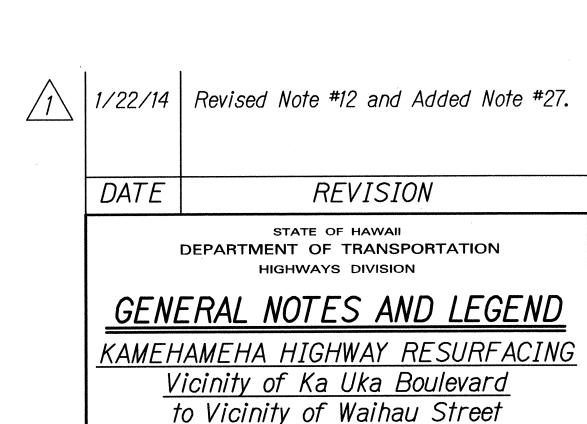
- 14. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks, ADA access routes, side streets and cross streets at all times. This work shall be considered incidental to the various contract items.
- 15. The Contractor shall remove and dispose of all existing 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.

/1\ 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.

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	ADD.3	84

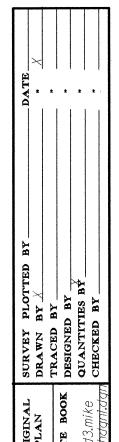
LEGEND

	Concrete Areas	°smh	Existing Sewer Manhole
		SMH	Adjusted Sewer MH Frame/Cover
	Reconstruction Areas		New Sewer Manhole
	Cold Planing Areas —	-g-6-	Existing 6" Gas Line
	Resurfacing Limits —	-G-6-	New 6" Gas Line
e	Existing Electrical Line	°gv	Existing Gas Valve Box
——E——	New Electrical Line	GV	Adjusted Gas Valve Box
°jp	Existing Joint Pole	Ø	Existing Gas Manhole
$^{\circ} ho ho$	Existing Power Pole	GMH	Adjusted Gas MH Frame/Cover
°emh	Existing Electric Manhole	7,0076	Existing Monument
• EMH	Adjusted Elec. MH Frame/Cover	MON.	Adjusted Monument
	Existing Telephone Line		Existing 24" Drain Line
	New Telephone Line =	24" RCP	
°tp	Existing Telephone Pole		Existing Storm Drain Manhole
° tmh	Existing Telephone Manhole	SDMH	Adjusted Storm Drain MH
•TMH	Adjusted Tele. MH Frame/Cover	•	Frame/Cover
	Existing Signal Corps Line	[™] SDMH	
	New Signal Corps Line	"gdi	Existing Grated Drop Inlet
	Existing TV Cable	<u>cb</u>	Existing Catch Basin
	New TV Cable	psign	Existing Traffic Sign
—— D.1.C.	Existing Sandwich Isles Communication Line		Existing Highway Lighting
w12	Existing 12" Water Line	° Dl	Standard `
°wmh	Existing Water Manhole	Ü	Existing Highway Lighting Pullbox
WMH	Adjusted Water MH Frame/Cover	otop	Existing Traffic Signal Pole
°av	Existing Water Air Valve	•TSP	New Traffic Signal Pole
AV	Adjusted Water Air Valve	' 0	Existing Traffic Signal Pullbox
●AV	New Water Air Valve		Adjusted Traffic Signal Pullbox
°wv	Existing Water Valve Box	,	New Traffic Signal Pullbox
~WV ₩771	Adjusted Water Valve Box Existing Water Meter		Existing Metal Guardrail
<i>₩M</i>	Adjusted Water Meter		New Metal Guardrail
1	Existing Fire Hydrant	×	Existing Chain Link Fence
f₹\(\bar{\tau}\)			New Chain Link Fence
	Existing Sewer Line New 12" Sewer Line		
—3—IZ—	IVEW IZ SEWEI LITIE		
	·		



Date: Sept., 2013 SHEET No. 1 OF 2 SHEETS

Federal Aid Project No. NH-099-1(029)



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 $3\frac{1}{2}$ " 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

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.

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.

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.

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

