Highways Division – Oahu

Kamehameha Hwy - Rehabilitation of Kipapa Stream Bridge (a.k.a. Franklin D. Roosevelt Bridge)

**SCOPE**
Rehabilitate the existing bridge to meet current HDOT and AASHTO standards for geometrics, Bridges, lighting, etc.

**Contract Amount**
$14.925 Million

**EST. SCHEDULE**
Anticipate completion July 2018
Highways Division
HDOT Highways Program Status

https://histategis.maps.arcgis.com/apps/MapSeries/index.html?appid=39e4d804242740a89d3fd0bc76d8d7de

HDOT Highways Program Status
Project Status Data uploaded 3/1/2018

Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, NGA, NRCA, GeoBase, IGN, NPS, University of Minnesota, US Army, NPS, NRCID, pearltrees

Priority Ranking
1 50
The top 50 bridges in the State Highway System in need of upgrades or repair are given a priority ranking using a weighted value that considers bridge condition, mobility, and risk.

Total Bridges in State Highways System: 741
- Oahu: 135
- Kauai: 57
- Maui: 120
- Molokai: 40

Bridge Feature: KIPAPA STRM
Priority Ranking: 1
Condition: Fair
Bridge Number: 00300040090301447

Bridges are given a priority ranking using a weighted value that considers bridge condition, mobility, and risk.
Highways Division
HDOT Highways Program Status

https://histategis.maps.arcgis.com/apps/MapSeries/index.html?appid=39e4d804242740a89d3fd0bc76d8d7de

HDOT Highways Program Status
Project Status, Data uploaded 3/1/2018

Current Construction
Future Projects
Pavement Condition
Traffic Count
Bridges
Fatal Crashes

Route 99 — KAMEHAMEHA HIGHWAY, KIPAPA STREAM (ROOSEVELT) BRIDGE REHABILITATION

Progress/Schedule
- Construction Phase
- NTP Date: 03/09/17
- Percent Complete: 45%
- Est. Completion Date: 07/2018
- Cost: $14.9 M

Scopes

Click on or to view project status information.

NOTE: Where multiple projects overlap, projects are shown as parallel lines along the route. Zoom in to area of interest to select specific projects.

Pop Up Legend
NTP Date: The date the contractor was given notice to proceed. For projects where notice to proceed has not yet been issued, the award date is shown.
Percent Complete: Indicates the % portion of the contract that has been completed.
Cost: The approximate current contract amount including amendments to the contract.

View a PDF List of Projects by Area
For questions or comments on this site, please email DTPAQH@hawaii.gov.
<table>
<thead>
<tr>
<th>Project Information</th>
<th>Limits of Construction</th>
<th>Scope</th>
<th>Progress/Schedule</th>
</tr>
</thead>
</table>
| KAMEHAMEHA HIGHWAY, KIPAPA STREAM (ROOSEVELT) BRIDGE REHABILITATION | Mileposts: 14.42 to 14.51 | REHABILITATING AND WIDENING KIPAPA STREAM BRIDGE, REVIEWING OPPORTUNITIES TO ENHANCE BIKE AND PEDESTRIAN ACCESS ADJACENT TO BRIDGE. | NTP Date: 3/9/2017  
Percent Complete: 45%  
Construction Cost: $14.9 M  
Est End Date: 07/2018  
Contractor: HAWAIIAN DREDGING CONSTRUCTION COMPANY, INC. |
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Highways Division – Oahu

Kamehameha Hwy - Rehabilitation of Kipapa Stream Bridge
(a.k.a. Franklin D. Roosevelt Bridge)
• Three (3) 11 ft. lanes with no median.
• 0-4 ft. shoulders on both sides.
Option A – Remove Lane

- Two (2) 11 ft. lanes with 3-6 ft. striped median.
- 4-6 ft. shoulders on both sides.
Highways Division – Oahu
Kamehameha Hwy - Rehabilitation of Kipapa Stream Bridge
(a.k.a. Franklin D. Roosevelt Bridge)

- Three (3) 10 ft. lanes with no striped median.
- 1.5 – 6 ft. shoulders on both sides.

Option B – Reduce Lane Width
Highways Division – Oahu
Kamehameha Hwy - Rehabilitation of Kipapa Stream Bridge (a.k.a. Franklin D. Roosevelt Bridge)

Option C – Shift Roadway to One Side

- Three (3) 10 ft. lanes with no striped median.
- 3 ft. minimum northbound shoulder.
- 0 - 3 ft. southbound shoulder.
INTRODUCTION
Travel time and delay are two of the principal measures of highway system performance used by traffic engineers, planners and analysts. They provide input to capacity analyses of roadway segments.

PURPOSE
To conduct a travel time study and determine the travel time after reducing the northbound throughway from two lanes to one lane (and comparing that to the existing condition travel time). The result will help with our determination on whether to increase the shoulder and median.

EXISTING CONDITION
The demonstration area starts north of the Kipapa Stream bridge and ends near the intersection of Kamehameha Highway and Lanikuhana Avenue. The existing lane configuration is 1 southbound lane and 2 northbound lanes, with shoulder width varying from zero to 4 feet. All lane widths are 11 feet.
Highways Division – Oahu
Kamehameha Highway (Route 99)
Travel Time Demo Project

Location:
On April 4\textsuperscript{th} traffic control cones will be placed on the roadway, closing one northbound (left) lane along Kamehameha Highway, from north of the Kipapa Stream Bridge (M.P. 14.45) to an area between the pedestrian overpass and the Lanikuhana Avenue intersection (M.P. 13.62). The total length of coning will be 0.83 miles.

Action Plan:
1. Wednesday, March 14\textsuperscript{th}, base line data acquired, 3:30pm-6:00pm.
2. Monday, April 2\textsuperscript{nd}, cones will be placed between 9am and 2pm.
3. Tuesday, April 3\textsuperscript{rd}, driver acclimate to the new situation.
4. Wednesday, April 4\textsuperscript{th}, collect data, 3:30pm-6:00pm.
5. Thursday, April 5\textsuperscript{th}, collect data, 3:30pm-6:00pm and take down cones at 7pm.
DATA COLLECTION PROCEDURE:

At 3:30 pm, one test vehicle will enter the northbound route at the intersection of Kamehameha Highway and Ka Uka Boulevard. At this time the stop watch will be started.

There will be six northbound reference points where times will be taken, the last point being the intersection of Kamehameha Highway and Lanikuhana Avenue.

After passing the final northbound reference point, the test vehicle will turn around and start a new southbound time measurement at the intersection of Kamehameha Highway and Lanikuhana Avenue.

Southbound times will be taken at the same reference points as in the northbound direction. The southbound route will end at the intersection of Kamehameha Highway and Ka Uka Boulevard, where the test vehicle will prepare for the next pass.

One pass will be made every 15 minutes, and this will continue until 6:00 pm.

At the same start time of 3:30 pm, an individual stationed on the pedestrian overpass will begin taking vehicle counts and continue until 6:00 pm.