Farrington Highway Replacement of Makaha Bridge No. 3 & No. 3A

Federal-Aid Project No. BR-093-1(20)
District of Waianae, Island of Oahu

Project Update
June 23, 2021
Project Location

- **Purpose**
  - Replacing 2 aging wood bridges
  - Improve structural integrity
  - Improve hydraulic opening
  - Improve safety
Status

- March 8, 2021 – Original construction start
- HDOT considers adjustments due to future corridor impacts and community concerns
- April 1, 2021 – HDOT holds project and revisits design
- May 2021 – Pre-consultation with community
- June 2021 – Stakeholder engagement
CONCEPTUAL HIGHWAY REALIGNMENT STUDY
MAKAHA BEACH PARK
Pacific Architects, Inc. (1998)
MAKAHA BEACH PARK MASTER PLAN REPORT
City and County of Honolulu
Anticipated Climate Change – Sea Level Rise
Proposed Project Approach

• Ensure bridge replacements do not preclude the future realignment of Farrington Highway

• Consider the long-term effects of climate change and sea level rise on the corridor and design accordingly

• Reduce rights of way and lane closure impacts on the public

• Look at funding opportunities for the realignment project

• Work with Waianae High School to determine short and mid term opportunities
Proposed Redesign

- Prefabricated steel bridges with epoxy coated deck w/ 11-foot travel lanes and 7.5-foot shoulders.
- Eliminated
  - temporary bypass road
  - temporary bridge and culverts
  - center pier at Bridge 3 (Makaha Stream)
  - construction parcel on the East Makai side of Bridge 3.
- Reduce construction schedule from 15 months to 9 months
- Reduce construction cost
- Anticipated construction start date August 2021
- Submit RAISE Grant application in July
Proposed Roadway Section

[Diagram of proposed roadway section with various annotations and measurements]
Makaha Bridge No. 3 Rendering

PROPOSED REDESIGN - BRIDGE NO. 3 - LONGITUDINAL SECTION

Scale 1/8"=1'-0"
Makaha Bridge No. 3A Rendering
Construction Impacts

- Foundation installation (1 month) – Off peak - one lane closures
- Roadway & Utility Work (4 months) – Off peak - one lane closures
- Stream channel improvements (3 months) – during dry weather only
- Bridge No. 3 demolition and new bridge launching (1 weekend) – traffic detour
- Bridge No. 3A demolition and new bridge launching (1 day over a weekend) – full closure
Detour Route
(Bridge No. 3)
Planned Road Closures

• 2 Lane access maintained for most of construction period
• Off peak intermittent single lane closures will be implemented when necessary
• Bridges will be constructed on the side of the facility then launched into position
  • Launch will require a full shut down of the highway for one day over a weekend
  • Emergency access will be planned for (should it be required)
  • Will coordinate with emergency management to ensure services available during the shut down
MAHALO!

Contact information & written letters by June 25, 2021 to: makahabridges@qr-se.com