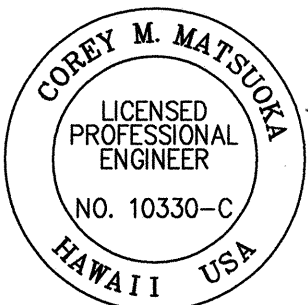


U.S. FISH AND WILDLIFE SERVICE'S NOTES:

A. GENERAL:

1. All on-site project personnel should be apprised of the status of endangered Hawaiian waterbirds. If any federally protected species appears in the immediate vicinity of ongoing, in-water work, work activity will temporarily be suspended until the animal leaves the area.
2. In areas where endangered Hawaiian waterbirds have been observed, nest searches by biologist familiar with nesting behavior of Hawaiian waterbirds shall be conducted prior to any work being conducted and after any subsequent delay in work of three or more days (during which birds may attempt nesting).
3. If a nest is discovered, work will cease in the vicinity for a minimum of 60 days; if a nest with chicks is discovered, work will cease for 30 days. These standard guidelines are intended to protect chicks, and may be shortened if monitoring is conducted often enough to note when chicks have fledged (usually five to six weeks after hatching).
4. If a previously undiscovered nest is found after work begins, all work should cease within a minimum radius of 100 feet of the nest and the Service shall be contacted within 24 hours.
5. Hawaiian hoary bats roost in both exotic and native woody vegetation and leave their young unattended in "nursery" trees and shrubs when they forage. If trees or shrubs suitable for bat roosting are cleared during the bat breeding season (April to August), there is a risk that young bats could inadvertently be harmed or killed. To minimize impacts to the endangered Hawaiian hoary bat, woody plants greater than 15 feet tall should not be removed or trimmed during the bat-birthing and pup-rearing season (May 15 through August 15).
6. Wedge-tailed shearwaters are known to transit this area and are attracted to lights during the breeding season. Seabirds often will circle the light source until they either collide with nearby structures or fall to the ground due to exhaustion. Once grounded, they are vulnerable to predators or struck by vehicles along roadways. During construction no nighttime work should be performed during the shearwater fledging season (mid-November to mid-December).
7. No project-related materials (fill, revetment rock, pipe, etc.) should be stockpiled in the water (intertidal zones, reef flats, stream channels, wetlands, etc.) or on beach habitats. Dredged material will be dewatered a minimum of 100 feet from Mailli Stream and if necessary, the area will be bermed to prevent drainage of water back to the stream.
8. Turbidity and siltation from project-related work shall be minimized and contained within the vicinity of the site through the appropriate use of effective silt containment devices and the curtailment of work during adverse tidal and weather conditions.
9. All project-related materials and equipment (dredges, barges, backhoes, etc.) to be placed in the water shall be cleaned of pollutants prior to use.
10. No contamination (trash or debris disposal, non-native species introductions, attraction of non-native pests, etc.) of adjacent habitats (reef flats, channels, open ocean, stream channels, wetlands, beaches, forests, etc.) shall result from project-related activities.
11. All debris removed from the marine/aquatic environment shall be disposed of at an approved upland or ocean dumping site. Green waste generated from clearing work and stockpile in areas provided by the Government. The Contractor may chip the woody green waste and spread evenly on the access road along the Mailli Stream.
12. Fueling of project-related vehicles and equipment should take place away from the water and a contingency plan to control petroleum products accidentally spilled during the project shall be developed. Absorbent pads and containment booms shall be stored on-site, if appropriate, to facilitate the clean-up of accidental petroleum releases.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(21)	2015	11	99



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

*Corey Matsuda*  
SIGNATURE

4/30/16  
EXPIRATION  
DATE OF THE  
LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

U.S. FISH AND WILDLIFE SERVICE'S

NOTES

FARRINGTON HIGHWAY

Replacement of Maipalaoa Bridge

Federal Aid Project No. BR-093-1(21)

Scale:

Date: JUNE 2015

SHEET No. 1 OF 1 SHEETS