

U.S. Army Corps of Engineers (USACE)  
**NATIONWIDE PERMIT PRE-CONSTRUCTION NOTIFICATION (PCN)**

33 CFR 330. The proponent agency is CECW-CO-R.

**Form Approved -**  
**OMB No. 0710-0003**  
**Expires: 02-28-2022**

**DATA REQUIRED BY THE PRIVACY ACT OF 1974**

**Authority** Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Regulatory Program of the Corps of Engineers (Corps); Final Rule 33 CFR 320-332.

**Principal Purpose** Information provided on this form will be used in evaluating the nationwide permit pre-construction notification.

**Routine Uses** This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of the agency coordination process.

**Disclosure** Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued.

The public reporting burden for this collection of information, 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

**PLEASE DO NOT RETURN YOUR RESPONSE TO THE ABOVE EMAIL.**

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see *sample drawings and/or instructions*) and be submitted to the district engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

**(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)**

|                    |                      |                  |                              |
|--------------------|----------------------|------------------|------------------------------|
| 1. APPLICATION NO. | 2. FIELD OFFICE CODE | 3. DATE RECEIVED | 4. DATE APPLICATION COMPLETE |
|--------------------|----------------------|------------------|------------------------------|

**(ITEMS BELOW TO BE FILLED BY APPLICANT)**

|                                                                                                                                                                                                                          |                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5. APPLICANT'S NAME</b><br>First - Henry Middle - Last - Kennedy<br>Company - Hawaii Department of Transportation<br>Company Title - Hawaii Department of Transportation<br>E-mail Address - Henry.Kennedy@hawaii.gov | <b>8. AUTHORIZED AGENT'S NAME AND TITLE (<i>agent is not required</i>)</b><br>First - Todd Middle - Last - Nishioka<br>Company - WSP USA Inc.<br>E-mail Address - todd.nishioka@wsp.com |
| <b>6. APPLICANT'S ADDRESS</b><br>Address- 869 Punchbowl Street<br>City - Honolulu State - HI Zip - 96813 Country - USA                                                                                                   | <b>9. AGENT'S ADDRESS</b><br>Address- 1001 Bishop Street, Suite 2400<br>City - Honolulu State - HI Zip - 96813 Country - USA                                                            |
| <b>7. APPLICANT'S PHONE NOs. with AREA CODE</b><br>a. Residence b. Business c. Fax d. Mobile<br>808-692-7559                                                                                                             | <b>10. AGENT'S PHONE NOs. with AREA CODE</b><br>a. Residence b. Business c. Fax d. Mobile<br>808-566-2212                                                                               |

**STATEMENT OF AUTHORIZATION**

11. I hereby authorize, Todd Nishioka to act in my behalf as my agent in the processing of this nationwide permit pre-construction notification and to furnish, upon request, supplemental information in support of this nationwide permit pre-construction notification.

Henry Kennedy

SIGNATURE OF APPLICANT

02/27/2026

DATE

**NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY**

**12. PROJECT NAME or TITLE (*see instructions*)**  
Seismic Retrofit, Haleakala Highway Route 377, Waiale Gulch, Alae (Naalae Gulch) and Pulehu Gulch (Pohakuokala) Bridges  
Federal Aid Project No.: STP-0377(008)

**NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY**

13. NAME OF WATERBODY, IF KNOWN *(if applicable)*

Waiale Gulch, Naalae Gulch, and Pulehu Gulch

14. PROPOSED ACTIVITY STREET ADDRESS *(if applicable)*

See attached.

15. LOCATION OF PROPOSED ACTIVITY *(see instructions)*

Latitude                      °N                      Longitude                      °W

See Attached

City:

State:    Zip:

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN *(see instructions)*

State Tax Parcel ID

TMK: (2)2-3-999-999; (2)2-2-006-999

Municipality

Kula , Island of Hawaii, Maui, State of Hawaii

Section

Township

Range

17. DIRECTIONS TO THE SITE

Included in PCN Attachments

18. IDENTIFY THE SPECIFIC NATIONWIDE PERMIT(S) YOU PROPOSE TO USE

Nationwide Permit 3 - Maintenance

19. DESCRIPTION OF PROPOSED NATIONWIDE PERMIT ACTIVITY *(see instructions)*

Included in PCN Attachments

20. DESCRIPTION OF PROPOSED MITIGATION MEASURES *(see instructions)*

Included in PCN Attachments

21. PURPOSE OF NATIONWIDE PERMIT ACTIVITY *(Describe the reason or purpose of the project, see instructions)*

The proposed undertaking will repair and preserve the life of Waiale Bridge, Pohakuokala Bridge and Alae Bridge

22. QUANTITY OF WETLANDS, STREAMS, OR OTHER TYPES OF WATERS DIRECTLY AFFECTED BY PROPOSED NATIONWIDE PERMIT ACTIVITY *(see instructions)*

Acres

Linear Feet

Cubic Yards Dredged or Discharged

See Attachment 5: Proposed Permanent Fill

Quantities and Temporary Impact Area

**Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site.**

23. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. *(see instructions)*

N/A

24. If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and requires pre-construction notification, explain how the compensatory mitigation requirement in paragraph (c) of general condition 23 will be satisfied, or explain why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required for the proposed activity.

The proposed activity will not result in the loss of greater than 1/10 acre of wetlands.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>25. Is any portion of the nationwide permit activity already complete? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, describe the completed work:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                        |
| <p>26. List the name(s) of any species listed as endangered or threatened under the Endangered Species Act that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. <i>(see instructions)</i></p> <p>Hawaiian Hoary Bat, Hawaiian goose, Blackburn's sphinx moth, Hawaiian Stilt, Hawaiian Coot, Hawaiian Duck, Band-Rumped Storm-Petrel, Hawaiian Petrel, Newell's shearwater. See Attachment 7: Agency Coordination</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                        |
| <p>27. List any historic properties that have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic property or properties. <i>(see instructions)</i></p> <p>The FHWA identified the Waiale Bridge, Pohakuokala Bridge, and the Alae Bridge as historic properties eligible for listing in the National Register of Historic Places. See Attachment 7: Agency Coordination</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                        |
| <p>28. For a proposed NWP activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, identify the Wild and Scenic River or the "study river":</p> <p>N/A</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                        |
| <p>29. If the proposed NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, have you submitted a written request for section 408 permission from the Corps district having jurisdiction over that project? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If "yes", please provide the date your request was submitted to the Corps district:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                        |
| <p>30. If the terms of the NWP(s) you want to use require additional information to be included in the PCN, please include that information in this space or provide it on an additional sheet of paper marked Block 30. <i>(see instructions)</i></p> <p>See PCN Attachments for additional information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                        |
| <p>31. Pre-construction notification is hereby made for one or more nationwide permit(s) to authorize the work described in this notification. I certify that the information in this pre-construction notification is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%; vertical-align: bottom;"> <p><u>Henry Kennedy</u></p> <p>SIGNATURE OF APPLICANT</p> </td> <td style="width: 20%; vertical-align: bottom;"> <p><u>02/27/2026</u></p> <p>DATE</p> </td> <td style="width: 20%; vertical-align: bottom;"> <p><u>Nishioka, Todd<br/>(nishiokats)</u></p> <p>SIGNATURE OF AGENT</p> </td> <td style="width: 20%; vertical-align: bottom;"> <p><small>Digitally signed by Nishioka, Todd<br/>(nishiokats)<br/>DN: cn=Nishioka, Todd<br/>(nishiokats), ou=WSPObjects,<br/>email=Todd.Nishioka@wsp.com<br/>Date: 2026.02.27 10:08:17 -10'00'</small></p> <p>DATE</p> </td> </tr> </table> | <p><u>Henry Kennedy</u></p> <p>SIGNATURE OF APPLICANT</p> | <p><u>02/27/2026</u></p> <p>DATE</p>                                    | <p><u>Nishioka, Todd<br/>(nishiokats)</u></p> <p>SIGNATURE OF AGENT</p>                                                                                                                                                | <p><small>Digitally signed by Nishioka, Todd<br/>(nishiokats)<br/>DN: cn=Nishioka, Todd<br/>(nishiokats), ou=WSPObjects,<br/>email=Todd.Nishioka@wsp.com<br/>Date: 2026.02.27 10:08:17 -10'00'</small></p> <p>DATE</p> |
| <p><u>Henry Kennedy</u></p> <p>SIGNATURE OF APPLICANT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p><u>02/27/2026</u></p> <p>DATE</p>                      | <p><u>Nishioka, Todd<br/>(nishiokats)</u></p> <p>SIGNATURE OF AGENT</p> | <p><small>Digitally signed by Nishioka, Todd<br/>(nishiokats)<br/>DN: cn=Nishioka, Todd<br/>(nishiokats), ou=WSPObjects,<br/>email=Todd.Nishioka@wsp.com<br/>Date: 2026.02.27 10:08:17 -10'00'</small></p> <p>DATE</p> |                                                                                                                                                                                                                        |
| <p>The pre-construction notification must be signed by the person who desires to undertake the proposed activity (applicant) and, if the statement in Block 11 has been filled out and signed, the authorized agent.</p> <p>18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.</p>                                                                                                                                                                                                                                                                                                             |                                                           |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                        |

**Instructions for Preparing a  
Department of the Army  
Nationwide Permit (NWP) Pre - Construction Notification (PCN)**

**Blocks 1 through 4.** To be completed by the Corps of Engineers.

**Block 5. Applicant's Name.** Enter the name and the e - mail address of the responsible party or parties. If the responsible party is an agency, company, corporation, or other organization, indicate the name of the organization and responsible officer and title. If more than one party is associated with the preconstruction notification, please attach a sheet of paper with the necessary information marked Block 5.

**Block 6. Address of Applicant.** Please provide the full address of the party or parties responsible for the PCN. If more space is needed, attach an extra sheet of paper marked Block 6.

**Block 7. Applicant's Telephone Number(s).** Please provide the telephone number where you can usually be reached during normal business hours.

**Blocks 8 through 11.** To be completed, if you choose to have an agent.

**Block 8. Authorized Agent's Name and Title.** Indicate name of individual or agency, designated by you, to represent you in this process. An agent can be an attorney, builder, contractor, engineer, consultant, or any other person or organization. Note: An agent is not required.

**Blocks 9 and 10. Agent's Address and Telephone Number.** Please provide the complete mailing address of the agent, along with the telephone number where he / she can be reached during normal business hours.

**Block 11. Statement of Authorization.** To be completed by the applicant, if an agent is to be employed.

**Block 12. Proposed Nationwide Permit Activity Name or Title.** Please provide a name identifying the proposed NWP activity, e.g., Windward Marina, Rolling Hills Subdivision, or Smith Commercial Center.

**Block 13. Name of Waterbody.** Please provide the name (if it has a name) of any stream, lake, marsh, or other waterway to be directly impacted by the NWP activity. If it is a minor (no name) stream, identify the waterbody the minor stream enters.

**Block 14. Proposed Activity Street Address.** If the proposed NWP activity is located at a site having a street address (not a box number), please enter it in Block 14.

**Block 15. Location of Proposed Activity.** Enter the latitude and longitude of where the proposed NWP activity is located. Indicate whether the project location provided is the center of the project or whether the project location is provided as the latitude and longitude for each of the "corners" of the project area requiring evaluation. If there are multiple sites, please list the latitude and longitude of each site (center or corners) on a separate sheet of paper and mark as Block 15.

**Block 16. Other Location Descriptions.** If available, provide the Tax Parcel Identification number of the site, Section, Township, and Range of the site (if known), and / or local Municipality where the site is located.

**Block 17. Directions to the Site.** Provide directions to the site from a known location or landmark. Include highway and street numbers as well as names. Also provide distances from known locations and any other information that would assist in locating the site. You may also provide a description of the location of the proposed NWP activity, such as lot numbers, tract numbers, or you may choose to locate the proposed NWP activity site from a known point (such as the right descending bank of Smith Creek, one mile downstream from the Highway 14 bridge). If a large river or stream, include the river mile of the proposed NWP activity site if known. If there are multiple locations, please indicate directions to each location on a separate sheet of paper and mark as Block 17.

**Block 18. Identify the Specific Nationwide Permit(s) You Propose to Use.** List the number(s) of the Nationwide Permit(s) you want to use to authorize the proposed activity (e.g., NWP 29).

**Block 19. Description of the Proposed Nationwide Permit Activity.** Describe the proposed NWP activity, including the direct and indirect adverse environmental effects the activity would cause. The description of the proposed activity should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal. Identify the materials to be used in construction, as well as the methods by which the work is to be done.

Provide sketches when necessary to show that the proposed NWP activity complies with the terms of the applicable NWP(s). Sketches usually clarify the activity and result in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed NWP activity (e.g., a conceptual plan), but do not need to be detailed engineering plans.

The written descriptions and illustrations are an important part of the application. Please describe, in detail, what you wish to do. If more space is needed, attach an extra sheet of paper marked Block 19.

**Block 20. Description of Proposed Mitigation Measures.** Describe any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed NWP activity. The description of any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or additional mitigation measures.

**Block 21. Purpose of Nationwide Permit Activity.** Describe the purpose and need for the proposed NWP activity. What will it be used for and why? Also include a brief description of any related activities associated with the proposed project. Provide the approximate dates you plan to begin and complete all work.

**Block 22. Quantity of Wetlands, Streams, or Other Types of Waters Directly Affected by the Proposed Nationwide Permit Activity.** For discharges of dredged or fill material into waters of the United States, provide the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained by the proposed NWP activity. For structures or work in navigable waters of the United States subject to Section 10 of the Rivers and Harbors Act of 1899, provide the amount of navigable waters filled, dredged, or occupied by one or more structures (e.g., aids to navigation, mooring buoys) by the proposed NWP activity.

For multiple NWPs, or for separate and distant crossings of waters of the United States authorized by NWPs 12 or 14, attach an extra sheet of paper marked Block 21 to provide the quantities of wetlands, streams, or other types of waters filled, flooded, excavated, or drained (or dredged or occupied by structures, if in waters subject to Section 10 of the Rivers and Harbors Act of 1899) for each NWP. For NWPs 12 and 14, include the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained for each separate and distant crossing of waters or wetlands. If more space is needed, attach an extra sheet of paper marked Block 22.

**Block 23. Identify Any Other Nationwide Permit(s), Regional General Permit(s), or Individual Permit(s) Used to Authorize Any Part of Proposed Activity or Any Related Activity.** List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. For linear projects, list other separate and distant crossings of waters and wetlands authorized by NWPs 12 or 14 that do not require PCNs. If more space is needed, attach an extra sheet of paper marked Block 23.

**Block 24. Compensatory Mitigation Statement for Losses of Greater Than 1/10 - Acre of Wetlands When Pre - Construction Notification is Required.** Paragraph (c) of NWP general condition 23 requires compensatory mitigation at a minimum one - for - one replacement ratio will be required for all wetland losses that exceed 1/10 - acre and require pre - construction notification, unless the district engineer determines in writing that either some other form of mitigation is more environmentally appropriate or the adverse environmental effects of the proposed NWP activity are no more than minimal without compensatory mitigation, and provides an activity - specific waiver of this requirement. Describe the proposed compensatory mitigation for wetland losses greater than 1/10 acre, or provide an explanation of why the district engineer should not require wetland compensatory mitigation for the proposed NWP activity. If more space is needed, attach an extra sheet of paper marked Block 24.

**Block 25. Is Any Portion of the Nationwide Permit Activity Already Complete?** Describe any work that has already been completed for the NWP activity.

**Block 26. List the Name(s) of Any Species Listed As Endangered or Threatened under the Endangered Species Act that Might be Affected by the Nationwide Permit Activity.** If you are not a federal agency, and if any listed species or designated critical habitat might be affected or is in the vicinity of the proposed NWP activity, or if the proposed NWP activity is located in designated critical habitat, list the name(s) of those endangered or threatened species that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 7 of the Endangered Species Act.

**Block 27. List Any Historic Properties that Have the Potential to be Affected by the Nationwide Permit Activity.** If you are not a Federal agency, and if any historic properties have the potential to be affected by the proposed NWP activity, list the name(s) of those historic properties that have the potential to be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

**Block 28. List the Wild and Scenic River or Congressionally Designated Study River if the Nationwide Permit Activity Would Occur in such a River.** If the proposed NWP activity will occur in a river in the National Wild and Scenic River System or in a river officially designated by Congress as a "study river" under the Wild and Scenic Rivers Act, provide the name of the river. For a list of Wild and Scenic Rivers and study rivers, please visit <http://www.rivers.gov/>.

**Block 29. Nationwide Permit Activities that also Require Permission from the Corps Under 33 U.S.C. 408.** If the proposed NWP activity also requires permission from the Corps under 33 U.S.C. 408 because it will temporarily or permanently alter, occupy, or use a Corps federal authorized civil works project, indicate whether you have submitted a written request for section 408 permission from the Corps district having jurisdiction over that project.

**Block 30. Other Information Required For Nationwide Permit Pre - Construction Notifications.** The terms of some of the Nationwide Permits include additional information requirements for preconstruction notifications:

- \* NWP 3, Maintenance –information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals.
- \* NWP 31, Maintenance of Existing Flood Control Facilities –a description of the maintenance baseline and the dredged material disposal site.
- \* NWP 33, Temporary Construction, Access, and Dewatering –a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre - project conditions.
- \* NWP 44, Mining Activities –if reclamation is required by other statutes, then a copy of the final reclamation plan must be submitted with the pre - construction notification.
- \* NWP 45, Repair of Uplands Damaged by Discrete Events –documentation, such as a recent topographic survey or photographs, to justify the extent of the proposed restoration.
- \* NWP 48, Commercial Shellfish Aquaculture Activities –(1) a map showing the boundaries of the project area, with latitude and longitude coordinates for each corner of the project area; (2) the name(s) of the species that will be cultivated during the period this NWP is in effect; (3) whether canopy predator nets will be used; (4) whether suspended cultivation techniques will be used; and (5) general water depths in the project area (a detailed survey is not required).
- \* NWP 49, Coal Remining Activities –a document describing how the overall mining plan will result in a net increase in aquatic resource functions must be submitted to the district engineer and receive written authorization prior to commencing the activity.
- \* NWP 50, Underground Coal Mining Activities –if reclamation is required by other statutes, then a copy of the reclamation plan must be submitted with the pre - construction notification.

If more space is needed, attach an extra sheet of paper marked Block 30.

**Block 31. Signature of Applicant or Agent.** The PCN must be signed by the person proposing to undertake the NWP activity, and if applicable, the authorized party (agent) that prepared the PCN. The signature of the person proposing to undertake the NWP activity shall be an affirmation that the party submitting the PCN possesses the requisite property rights to undertake the NWP activity (including compliance with special conditions, mitigation, etc.).

#### **DELINEATION OF WETLANDS, OTHER SPECIAL AQUATIC SITES, AND OTHER WATERS**

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current wetland delineation manual and regional supplement published by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. The 45 day PCN review period will not start until the delineation is submitted or has been completed by the Corps.

#### **DRAWINGS AND ILLUSTRATIONS**

##### **General Information.**

Three types of illustrations are needed to properly depict the work to be undertaken. These illustrations or drawings are identified as a Vicinity Map, a Plan View or a Typical Cross - Section Map. Identify each illustration with a figure or attachment number. For linear projects (e.g. roads, subsurface utility lines, etc.) gradient drawings should also be included. Please submit one original, or good quality copy, of all drawings on 8½x11 inch plain white paper (electronic media may be substituted). Use the fewest number of sheets necessary for your drawings or illustrations. Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view, or cross - section). While illustrations need not be professional (many small, private project illustrations are prepared by hand), they should be clear, accurate, and contain all necessary information.

#### **ADDITIONAL INFORMATION AND REQUIREMENTS**

For proposed NWP activities that involve discharges into waters of the United States, water quality certification from the State, Tribe, or EPA must be obtained or waived (see NWP general condition 25). Some States, Tribes, or EPA have issued water quality certification for one or more NWPs. Please check the appropriate Corps district web site to see if water quality certification has already been issued for the NWP(s) you wish to use. For proposed NWP activities in coastal states, state Coastal Zone Management Act consistency concurrence must be obtained, or a presumption of concurrence must occur (see NWP general condition 26). Some States have issued Coastal Zone Management Act consistency concurrences for one or more NWPs. Please check the appropriate Corps district web site to see if Coastal Zone Management Act consistency concurrence has already been issued for the NWP(s) you wish to use.

## Attachments

Attachment 1: Additional PCN Information

Attachment 2: Location Map

Attachment 3: Photographs of Waiale Bridge, Pohakuokala Bridge and Alae Bridge

Attachment 4: USACE Jurisdiction and Temporary Impact Area

Attachment 5: Proposed Fill Quantities

Attachment 6: Proposed Project Plans

Attachment 7: Agency Coordination

# Attachment 1

Additional PCN Information

## Additional PCN Information

### 14. PROPOSED ACTIVITY STREET ADDRESS

| Bridge             | Address                  |
|--------------------|--------------------------|
| Waiale Bridge      | Kula, Maui, Hawaii 96720 |
| Pohakuokala Bridge | Kula, Maui, Hawaii 96720 |
| Alae Bridge        | Kula, Maui, Hawaii 96720 |
|                    |                          |

### 15. LOCATION OF PROPOSED ACTIVITY

| Bridge             | °N             | °W              |
|--------------------|----------------|-----------------|
| Waiale Bridge      | 20°47'51.533"N | 156°18'28.429"W |
| Pohakuokala Bridge | 20°46'23.67"N  | 156°18'28.249"W |
| Alae Bridge        | 20°44'32.139"N | 156°19'33.593"W |
|                    |                |                 |

### 17. DIRECTIONS TO THE SITE

#### Waiale Bridge

1. From Kahului Airport, head northwest on Mayor Elmer F. Cravalho Way toward Lanui Circle,
2. Use the right lane to turn slightly left onto Lanui Circle
3. Use the left lane to turn slightly right onto Mayor Elmer F. Cravalho Way
4. Use the left 2 lanes to turn left onto State Highway 36
5. Turn right onto HI-37
6. Turn left onto State Highway 377
7. Stay on State Highway 377 for 3.8 miles

#### Pohakuokala Bridge

1. From Kahului Airport, head northwest on Mayor Elmer F. Cravalho Way toward Lanui Circle,
2. Use the right lane to turn slightly left onto Lanui Circle
3. Use the left lane to turn slightly right onto Mayor Elmer F. Cravalho Way
4. Use the left 2 lanes to turn left onto State Highway 36
5. Turn right onto HI-37
6. Turn left onto State Highway 377
7. Stay on State Highway 377 for 5.7 miles

#### Alae Bridge

1. From Kahului Airport, head northwest on Mayor Elmer F. Cravalho Way toward Lanui Circle,
2. Use the right lane to turn slightly left onto Lanui Circle

3. Use the left lane to turn slightly right onto Mayor Elmer F. Cravalho Way
4. Use the left 2 lanes to turn left onto State Highway 36
5. Turn right onto HI-37 for 14.3 miles
6. Turn left onto State Highway 377 for 0.4 miles

## 19. DESCRIPTION OF PROPOSED NATIONWIDE PERMIT ACTIVITY

The proposed undertaking will repair and preserve the life of three existing bridges along Haleakala Highway Route 377.

The anticipated construction work for the seismic retrofitting of all 3 bridges shall consist of:

- Removal of debris from the piers;
- Wrapping the piers with carbon fiber to the top of footing. Excavation (approximately 2-3 feet maximum) is likely around the footings to expose the piers to the top of the footings. It is likely that installing the carbon fiber wrap may require work in the water, below the Ordinary High Water Mark (OHWM).
- Removal of a portion of the backfill from behind the abutments (Waiale Bridge – approximately 3 feet deep, Pohakuokala Bridge – approximately 3 feet deep, and Alae Bridge – approximately 7 feet deep), installation of 4 soil nails at each roadway excavation and backfilling with Controlled Low Strength Material (CLSM) and tying the abutment to the CLSM backfill; and
- Replacement of the creep blocks at the bents.
- Pier footing upgrades.

Full roadway closures at each bridge will be necessary for a certain period of time. By closing each bridge for a short timeframe, the project will minimize impacts by avoiding the need for access roads to the bottom of the gulch or erecting temporary bridges during construction.

## 20. DESCRIPTION OF PROPOSED MITIGATION MEASURES

All work will be managed consistent with the FHWA's guidebook, "An Integrated Storm Water Management Approach and a Summary of Clear Water Diversion and Isolation Best Management Practices for Use in the State of Hawaii, by the Federal Highway Administration and Hawaii Department of Transportation: Practitioner's Guide (April 2016) within the limits of the designated Temporary Impact Area (See table below)

| Waterbody     | Temporary Impact Area |
|---------------|-----------------------|
| Waiale Stream | 2100 square feet      |

|              |                  |
|--------------|------------------|
| Pulehu Gulch | 1600 square feet |
| Naalae Gulch | 1800 square feet |

The Contractor will stage his equipment within the HDOT operational right-of-way and will use the appropriate Best Management Practices such as filter socks, drip pans etc. to prevent pollution from entering any receiving water body or drainage system.

Nightwork may be required for this project. If night work is required for this project, the appropriate mitigation measures will be implemented to mitigate the effect of night work on threatened and endangered species.

26. List the name(s) of any species listed as endangered or threatened under the Endangered Species Act that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity.

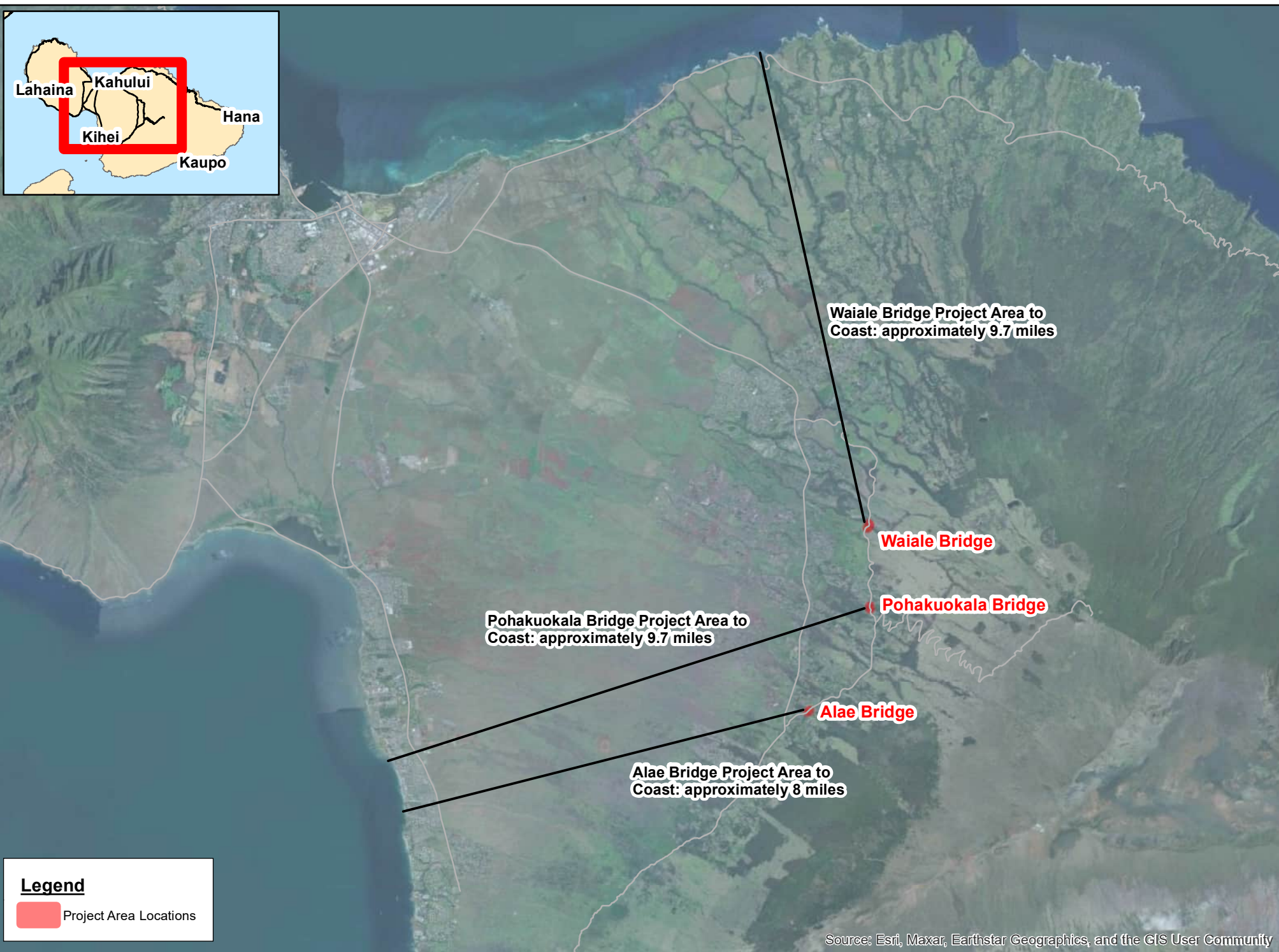
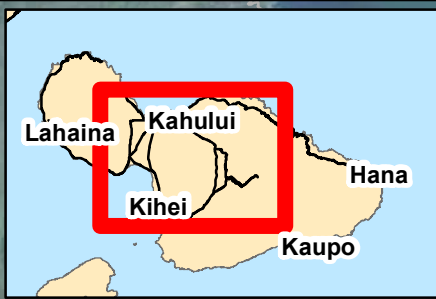
- Hawaiian Hoary Bat (*Lasiurus cinereus semotus*) (Endangered)
- Hawaiian birds, including the Band-rumped Storm-petrel (*Hydrobates castro*) (Endangered), Hawaiian Coot (*alae keokeo*) (*Fulica alai*) (Endangered), Hawaiian duck (*Anas wyvilliana*) (Endangered), Hawaiian Goose (*Branta sandvicensis*) (Threatened), Hawaiian Petrel (*Pterodroma sandwichensis*) (Endangered), Hawaiian stilt (*Himantopus mexicanus knudseni*) (Endangered), Newell's shearwater (*Puffinus newelli*) (Threatened),
- Insects, including the Blackburn's Sphinx Moth (*Manduca Blackburni*) (Endangered)

27. List any historic properties that have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic property or properties.

- Waiale Bridge
- Pohakuokala Bridge
- Alae Bridge

# Attachment 2

Location Map

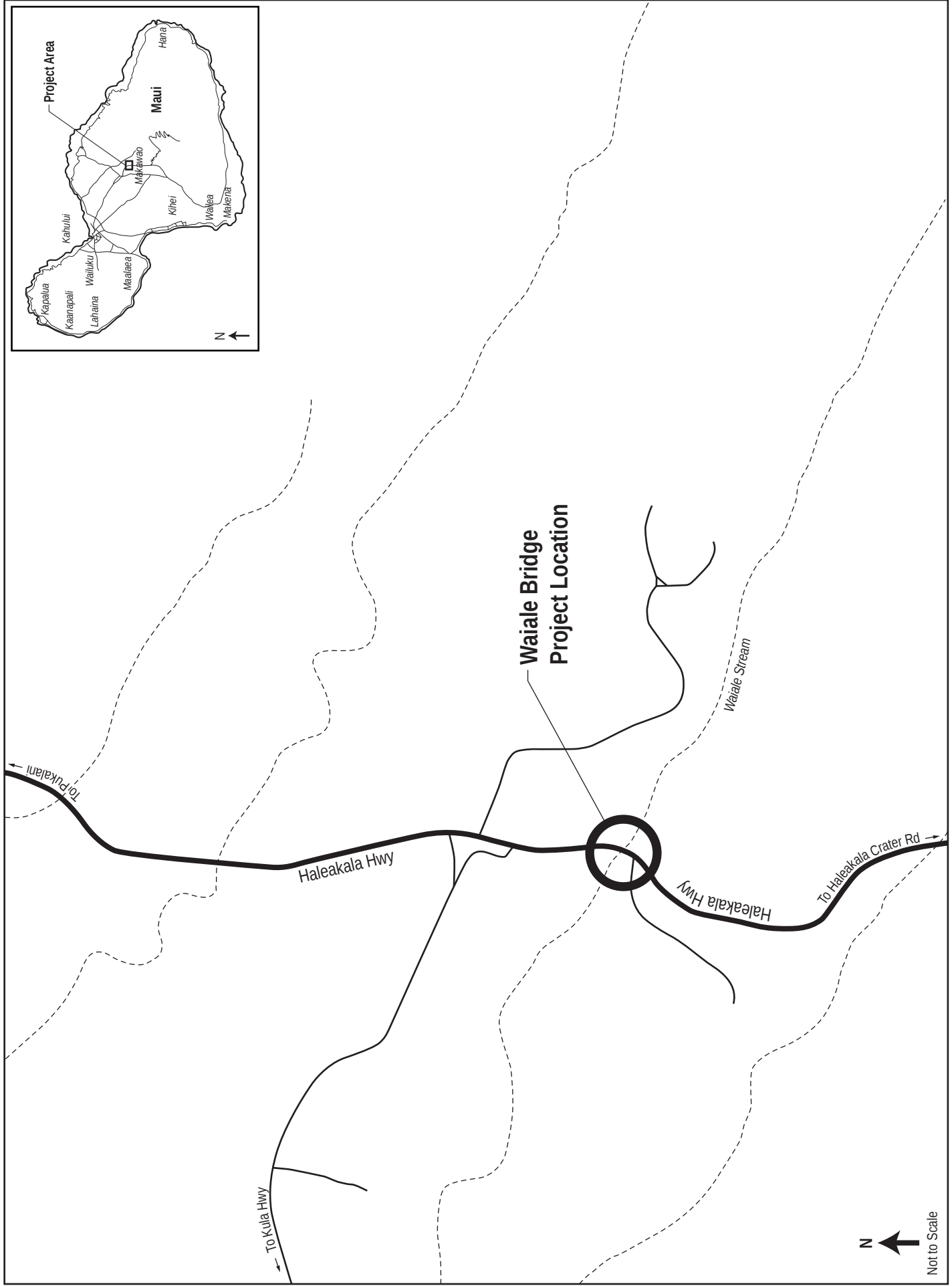


**Legend**  
Project Area Locations

0 7,500 15,000 30,000 Feet



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community







# Attachment 3

Photographs

of

Waiale Bridge  
Pohakuokala Bridge  
Alae Bridge



**PHOTO 1      PUKALANI APPROACH TO BRIDGE LOOKING TOWARD KULA**



**PHOTO 2      KULA APPROACH TO BRIDGE LOOKING TOWARD PUKALANI**



**PHOTO 3      UPSTREAM BRIDGE ELEVATION**



**PHOTO 4      DOWNSTREAM BRIDGE ELEVATION**



**PHOTO 19** S1 G1 @ DWNSTRM FACE 7'-0" FR A1: 0.012" WIDE X 3'-9" LONG VERTICAL CRACK, 1 FT = CS2 1130



**PHOTO 20** S1 G1 DWNSTRM FACE & G2 UPSTRM FACE @ 0'-0" FR A1: 30 FT TOTAL PATCHES FOR EACH GIRDER, 60 FT = CS2 1080



**PHOTO 33      DWNSTRM WINGWALL @ A1**



**PHOTO 34      SPAN 1 (S1) PIER 1 (P1) WITH DARK WATER STAINS AND GRAFITTI**



**PHOTO 37      SPAN 2 (S2) PIER 1 (P1) WITH GRAFITTI**



**PHOTO 38      FIXED BEARING @ S2 P1 UNDER G3**



**PHOTO 39 S2 P1 CENTER COLUMN (C) FOOTING @ 13'-0" FR UPSTRM SIDE: 0.008" WIDE (CS1) X 2'-3" LONG VERTICAL CRACK, 1 FT = CS1 1130**



**PHOTO 40 SPAN 2 (S2) PIER 2 (P2) WITH GRAFFITI**



**PHOTO 41      SPAN 3 (S3) PIER 2 (P2)**



**PHOTO 42      ROCKER BEARING @ S3 P2 UNDER G2: SURFACE CORROSION, TYPICAL OF 6,  
6 = CS2 1000**



**PHOTO 1      KEOKEA APPROACH TO BRIDGE LOOKING TOWARD PUKALANI**



**PHOTO 2      PUKALANI APPROACH TO BRIDGE LOOKING TOWARD KEOKEA**



**PHOTO 3      UPSTREAM BRIDGE ELEVATION**



**PHOTO 4      DOWNSTREAM BRIDGE ELEVATION**



**PHOTO 13      DOWNSTREAM WINGWALL AT A1**



**PHOTO 14      SPAN 1 SIDE OF PIER 1 (S1 P1)**



**PHOTO 15 S1 P1 @ 0' FR P1: CRM PROTECTION UNDERMINED 1'-0"(L)X1'-7"(H)X1'-0"(D) AT UPSTREAM END**



**PHOTO 16 S1 P1 @ 0' FR P1: CRM PROTECTION UNDERMINED 1'-0"(L)X1'-7"(H)X1'-0"(D) AT UPSTREAM END**



SEE PHOTO 28

COLUMN C1

COLUMN C2

COLUMN C3

PHOTO 19 SPAN 2 SIDE OF PIER 1 (S2 P1)



COLUMN C1

COLUMN C2

COLUMN C3

PHOTO 20 SPAN 2 SIDE OF PIER 2 (S2 P2)



COLUMN C1

COLUMN C2

COLUMN C3

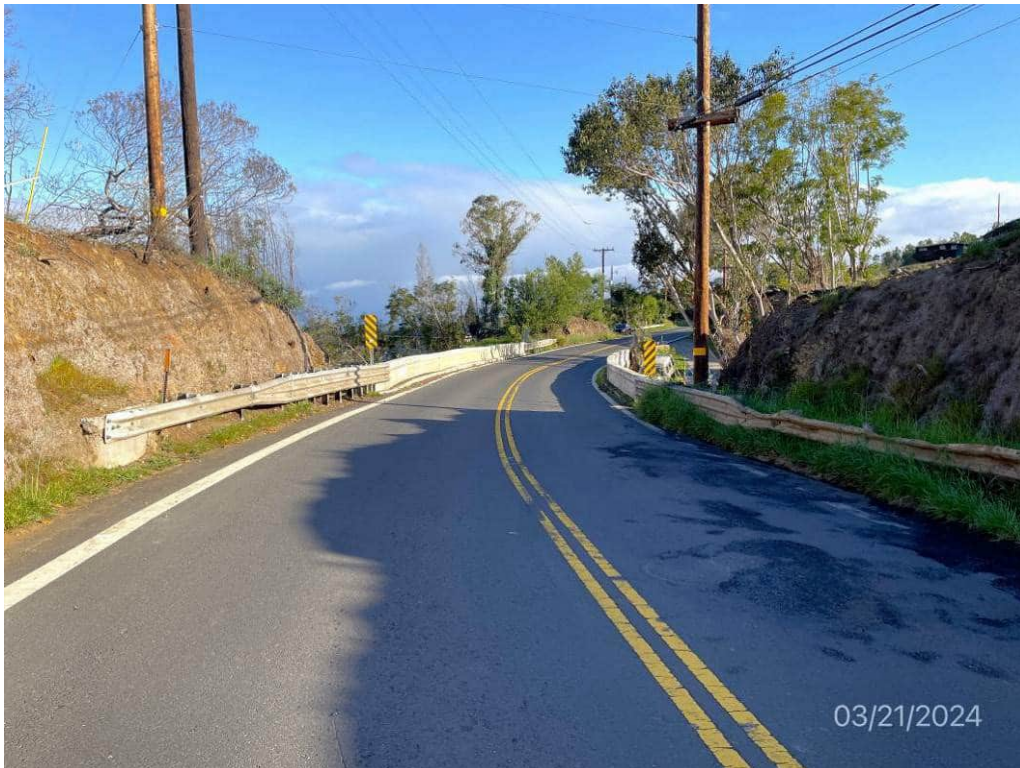
PHOTO 21 SPAN 3 SIDE OF PIER 3 (S3 P2)



PHOTO 22 UPSTREAM WINGWALL AT A2



**PHOTO 1      PUKALANI APPROACH TO BRIDGE LOOKING TOWARD KULA**



**PHOTO 2      KULA APPROACH TO BRIDGE LOOKING TOWARD PUKALANI**



**PHOTO 3      UPSTREAM BRIDGE ELEVATION**



**PHOTO 4      DOWNSTREAM SIDE OF BRIDGE**



**PHOTO 37      S2 P1 C3 @ 0' FR DNSTRM END: 3'-2"X6'-6"X2' PATCH, 1 EA = CS2 1080**



**PHOTO 38      S2 P1 FTG @ 0' FR DNSTRM END: 13'-6" LONG SECTION EXPOSED 0"-2'-8" VERTICALLY, 14 FT = CS2 6000**



**PHOTO 39**      **SPAN 2 PIER 2 (S2 P2)**



**PHOTO 40**      **SPAN 3 PIER 2 (S3 P2)**



**PHOTO 45      UPSTREAM VIEW OF CHANNEL**



**PHOTO 46      DOWNSTREAM VIEW OF CHANNEL**

# Attachment 4

USACE Jurisdiction  
Temporary Impact Area

Legend  
 Temporary Impact Area

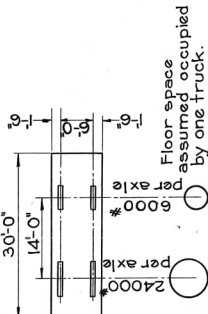
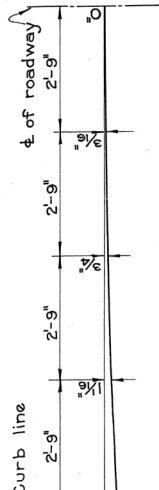
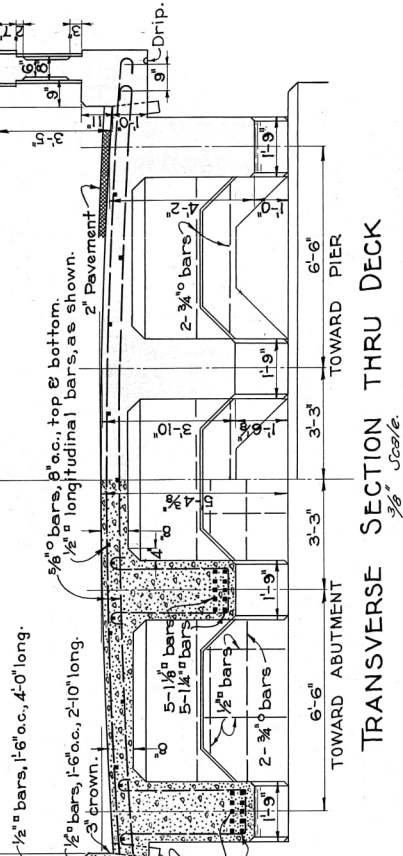
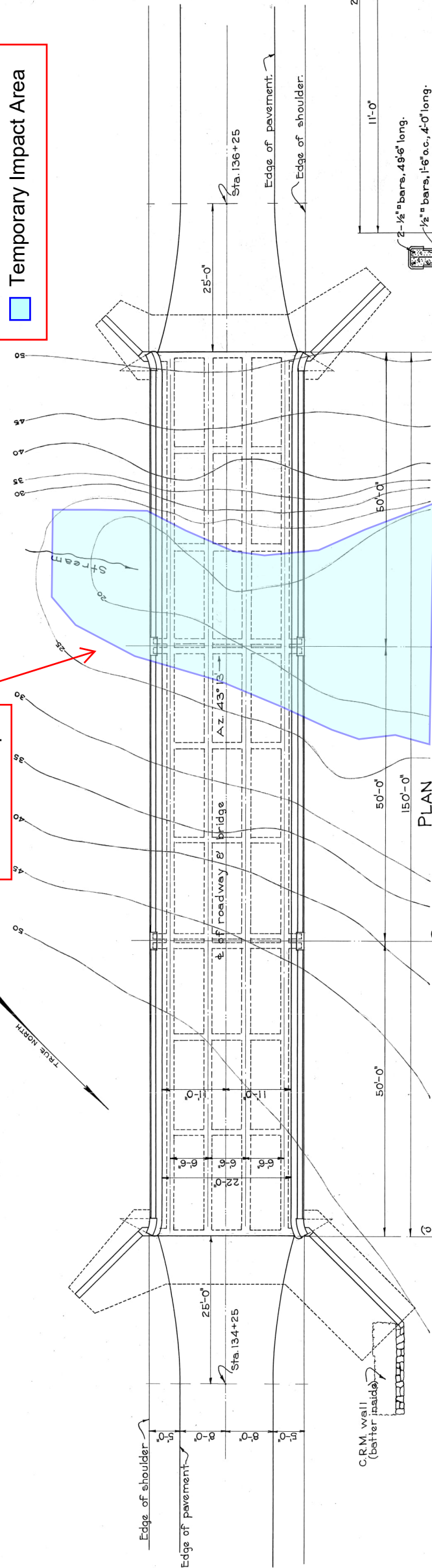


DIAGRAM - 15 TON TRUCK



ORDINATES FOR TEMPLATE FOR CROWN OF ROADWAY SLAB. THIS TEMPLATE TO BE USED UNLESS OTHERWISE INDICATED.

TRANSVERSE SECTION THRU DECK

Scale

USACE Jurisdiction

High Water

ELEVATION

Miscellaneous:— Girders to have a camber of 1" per 40 ft. length of span or as especially designated.

GENERAL NOTES

Dead Load:— Concrete at 150# per cu.ft.  
 Paving allowance 15# per sq.ft. of roadway surface.  
 Live Load:— 300# per sq.ft. of roadway surface.  
 Concrete:— All Class "A" Allowable compression 650# per sq. inch.  
 Reinforcing Steel:— Allowable tensile stress 16000# per sq. inch.  
 All steel to be square or round deformed bars, square twisted bars not to be considered deformed. All dimensions relating to reinforcement are to centers of bars unless otherwise indicated. Where splicing of reinforcement is required, it shall be staggered 40 diameters and splices to be staggered 40 diameters and splices to be staggered 40 diameters.

The minimum covering, measured from the surface of concrete to the face of any steel shall not be less than 2" in beams and girders, 1 1/4" in slabs, 2 1/2" in handrails and abutment walls and 3" in abutment footings. Steel to be placed rigidly and accurately in place before and during the placing of concrete. Main longitudinal bars in girders shall be lapped at least 40 diameters. Splices in quantities for extra length of reinforcement shall be made in the field of the span. Girders to have a camber of 1" per 40 ft. length of span or as especially designated.

NAME  
 Use correct name of stream  
 Left Hand Side.

DATE  
 Date of year built.  
 Right Hand Side.

DETAIL LETTERS & FIGURES

Scale

**General Notes:**  
Dead Load Concrete at 150' per cu. ft.  $\times 153$  per sq. ft. Air-entraining surface  
Live Load: 2.15 Ton Trucks with 26% impact on girders and 30% on slab.  
All concrete to be Class A (112.4 MPa)  
All exposed corners except as noted to be chamfered  $\frac{3}{4}$ "  
Reinforcing Steel: Allowable tensile stress 16,000 per sq. in. All steel  
to be square deformed bars. Square twisted bars not to  
be considered deformed.  
All dimensions relating to reinforcement are to centers  
of bars

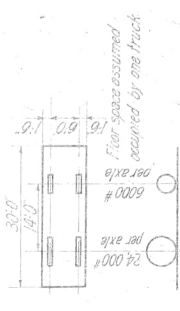


DIAGRAM OF 1-15 TON TRUCK

|                         |            |
|-------------------------|------------|
| Estimate of Quantities: |            |
| Concrete Class A        | 397 cu yds |
| Reinforcing Steel       | 72,200#    |
| Expansion Rockers       | 6,100#     |

Waiale Bridge.

WAIALE  
BRIDGE # 377006  
FAS 377

U. S. DEPARTMENT OF AGRICULTURE  
BUREAU OF PUBLIC ROADS  
SAN FRANCISCO, CALIFORNIA

BRIDGE NO. 2 ~ STATION 217±

HAWAII F.A.P. 5B

SCALE  $\frac{1}{8}'' = 1'-0''$

Sheet 1 of 3 Sheets

Sheet 1 of 3 Sheets

RG.163A

4081.36

|                    |                 |                |             |
|--------------------|-----------------|----------------|-------------|
| Plan File<br>No. 6 | Pocket<br>No. 1 | Folder<br>N. 2 | Plan<br>No. |
|--------------------|-----------------|----------------|-------------|

|           | Concrete | Rebar  |
|-----------|----------|--------|
| Inventory | 0.350c   | 0.505g |
| Operating | 0.451c   | 0.751g |

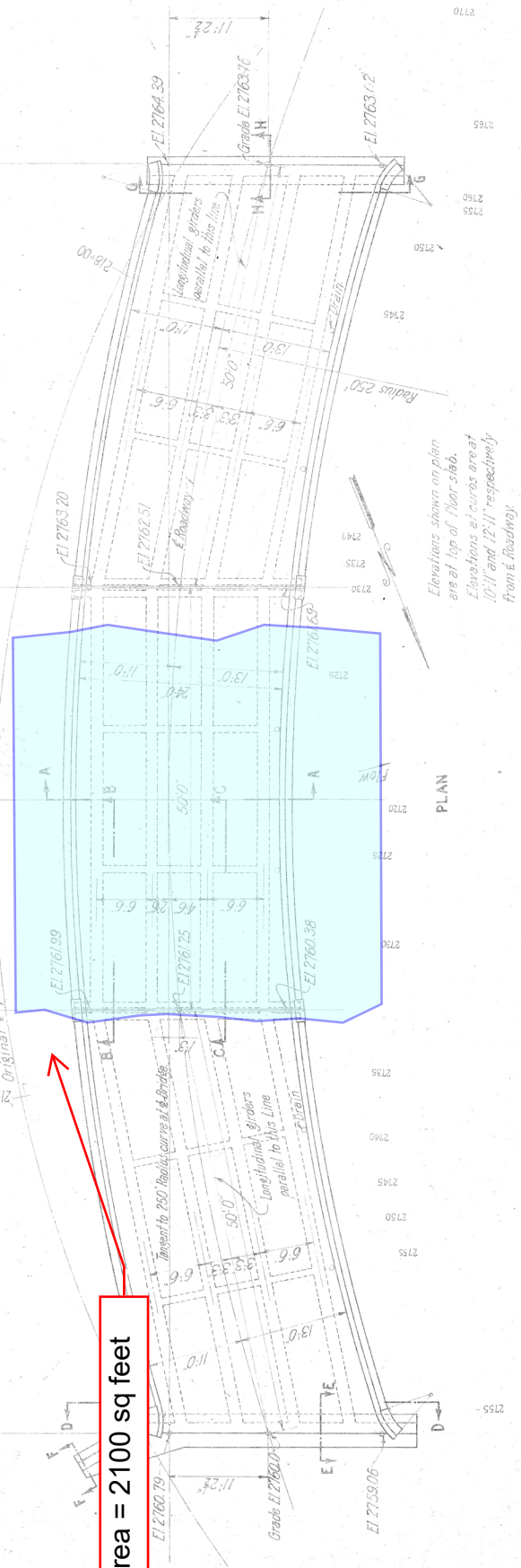
$\text{Stresses:}$   
 $f'_c = 2000$   
 $f_y = 32,000$   
 $n = 15$   
 $w = 150 \text{ \#/ft}^2$

Note:  
All rebar are square bar.



## Temporary Impact Area

area = 2100 sq feet

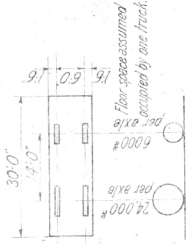


Elevations shown on plan are at top of floor slab.  
Elevations at curbs are at 10'-11" and 12'-11" respectively from E Roadway.

Note:

|                        |       |                |              |                 |
|------------------------|-------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWK                   | HAWK  | 5-3 1929       | 39           | 86              |

**General Notes:**  
Dead Load Concrete at 150 pcf cur at 15"  
per sq ft for future wearing surface  
Live Load - 2.15 tons/trucks with 30% impact  
All concrete to be Class A (104 MPa)  
All exposed surfaces except as noted  
to be chamfered  $\frac{3}{8}$ "  
Reinforcing Steel - Allowable tensile stress  
16,000 psi per sq in. All steel to be square  
ribbed bars. Square twisted bars  
not to be considered conforming.  
All dimensions relating to reinforcement are to centers of bars.



Estimate of Quantities

|                         |            |
|-------------------------|------------|
| Concrete                | 257 cu yds |
| Reinforcing Steel       | 35,000#    |
| Bronze Expansion Plates | 280#       |

## Pohakuokala Bridge

Pohakuokala

U. S. DEPARTMENT OF AGRICULTURE  
BUREAU OF PUBLIC ROADS  
SAN FRANCISCO, CALIFORNIA

BRIDGE NO. 4 ~ STATION 318+20

HAWAII F.A.P. 58

SCALE  $\frac{1}{4}'' = 1'-0''$ 

Sheet 1 of 2 Sheets

R.G. 164-A

4091.39

|                    |                 |                 |             |
|--------------------|-----------------|-----------------|-------------|
| Plan File<br>No. 6 | Pocket<br>No. 5 | Folder<br>No. 3 | Plan<br>No. |
|--------------------|-----------------|-----------------|-------------|

4081.39

stresses:

$f_c = 2000$   
 $f_y = 32,000$   
 $n = 15$   
 $w = 150 \frac{\text{lb}}{\text{ft}^2}$   
Inventory - 0.32  
Operating - 0.44

POHAKUOKALA  
BRIDGE # 377005  
EAS 377

note: the square bar  
All Rebar bar

USACE Jurisdiction

area = 1600 sq ft

### Legend

### Temporary Impact Area

# Attachment 5

Proposed Fill Quantities and Temporary Impact Area

Seismic Retrofit, Haleakala Highway Route 377, Waiale Gulch, Alae (Naalae Gulch) and Pulehu Gulch (Pohakuokala) Bridges  
Federal Aid Project Number: STP-0377(008)

Temporary Fill Quantities directly affecting proposed Nationwide Permit Activity

| Impact Water Name | Impact Water Type<br>T- Tributary, W-Wetland,<br>N-Navigable Water | Fill Activity         | Fill Dimensions in Waters of the U.S. |             | Impact Duration |
|-------------------|--------------------------------------------------------------------|-----------------------|---------------------------------------|-------------|-----------------|
|                   |                                                                    |                       | Area (sq. ft)                         | Volume (CY) |                 |
| Waiale Gulch      | Tributary                                                          | Temporary Impact Area | 2100                                  |             | Temporary       |
| Naalae Gulch      | Tributary                                                          | Temporary Impact Area | 1800                                  |             | Temporary       |
| Pulehu Gulch      | Tributary                                                          | Temporary Impact Area | 1600                                  |             | Temporary       |

Permanent Fill Quantities directly affecting proposed Nationwide Permit Activity

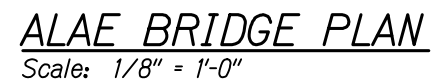
| Impact Water Name | Impact Water Type<br>T- Tributary, W-Wetland,<br>N-Navigable Water | Fill Activity                            | Fill Dimensions in Waters of the U.S. |             | Impact Duration |
|-------------------|--------------------------------------------------------------------|------------------------------------------|---------------------------------------|-------------|-----------------|
|                   |                                                                    |                                          | Area (sq. ft)                         | Volume (CY) |                 |
| Waiale Gulch      | Tributary                                                          | Carbon Fiber Reinforced Polymer *        | 500                                   |             | Permanent       |
| Naalae Gulch      | Tributary                                                          | Partially Grouted Riprap, Class IV (36") | 270                                   | 30          | Permanent       |
| Naalae Gulch      | Tributary                                                          | RipRap                                   | 270                                   | 40          | Permanent       |
| Naalae Gulch      | Tributary                                                          | Geotextile Fabric                        | 450                                   |             | Permanent       |

\* Carbon Fiber Reinforced Polymer is a composite material made of carbon fibers embedded in a polymer resin

# Attachment 6

Proposed Project Plans

Construct Conc. Corbel, Tie  
Slab, Anchor Beam and  
Install Soil Nails and Backfill  
Behind Abutment with LCC,  
See SA2.3



- 

Work within the general footprint of the Gulch

Scale:  $1/8'' = 1'-0''$

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

ALAE BRIDGE  
PLAN AND LONG. SECTION

3 MAUI BRIDGES SEISMIC RETROFIT  
Alae, Waialea and Pohakuokala  
Federal-Aid Project No. XX-XX-XXXX

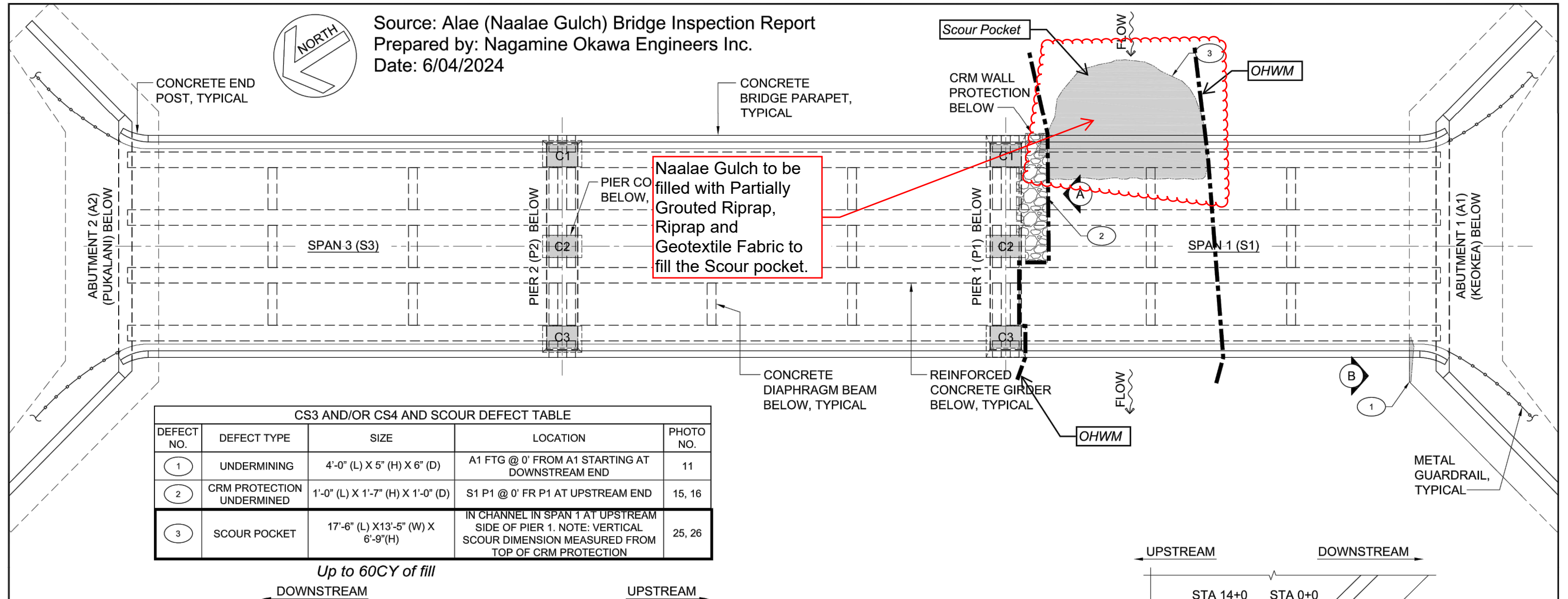
Scale: As Noted Date: Sept. 2023

SHEET No. SAI.1 OF 1 SHEETS

DRAWING NAME: Z:\\$00 ONGOING\\$22-000-3 MAUI BRIDGES SEISMIC RETROFIT (WSP)\\$01 CAD\\$09-20-23\\$3MB-SA0101 ALAE.DWG PLOT TIME: 09-20-23, 12:13 PM)



Source: Alae (Naalae Gulch) Bridge Inspection Report  
Prepared by: Nagamine Okawa Engineers Inc.  
Date: 6/04/2024



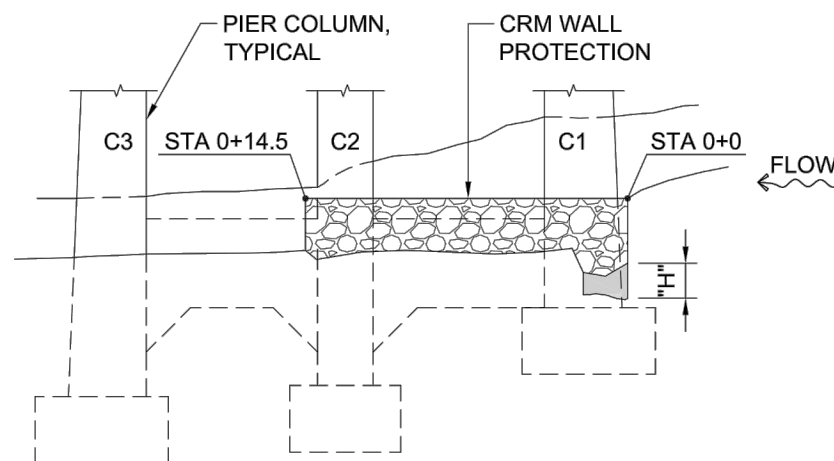
| CS3 AND/OR CS4 AND SCOUR DEFECT TABLE |                           |                                     |                                                                                                                     |           |
|---------------------------------------|---------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------|
| DEFECT NO.                            | DEFECT TYPE               | SIZE                                | LOCATION                                                                                                            | PHOTO NO. |
| 1                                     | UNDERMINING               | 4'-0" (L) X 5" (H) X 6" (D)         | A1 FTG @ 0' FROM A1 STARTING AT DOWNSTREAM END                                                                      | 11        |
| 2                                     | CRM PROTECTION UNDERMINED | 1'-0" (L) X 1'-7" (H) X 1'-0" (D)   | S1 P1 @ 0' FR P1 AT UPSTREAM END                                                                                    | 15, 16    |
| 3                                     | SCOUR POCKET              | 17'-6" (L) X 13'-5" (W) X 6'-9" (H) | IN CHANNEL IN SPAN 1 AT UPSTREAM SIDE OF PIER 1. NOTE: VERTICAL SCOUR DIMENSION MEASURED FROM TOP OF CRM PROTECTION | 25, 26    |

Up to 60CY of fill

DOWNSTREAM

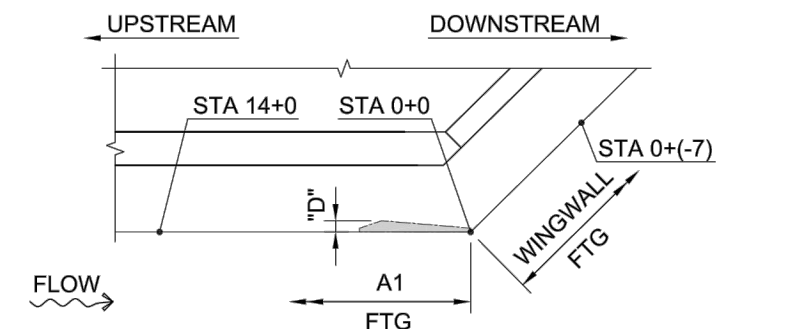
UPSTREAM

| PIER 1 CRM PROTECTION SCOUR DIMENSIONS TABLE |              |             |        |
|----------------------------------------------|--------------|-------------|--------|
| STATION (FEET)                               | "H" (HEIGHT) | "D" (DEPTH) | PHOTO  |
| 0                                            | 1'-7"        | 1'-0"       | 15, 16 |
| 1                                            | 10"          | 9"          |        |
| 2                                            | -            | -           |        |
| 2.5                                          | 1'-0"        | 1'-0"       |        |
| 4                                            | -            | -           |        |
| 6                                            | -            | -           |        |
| 8                                            | -            | -           |        |
| 10                                           | -            | -           |        |
| 12                                           | -            | -           |        |
| 14                                           | -            | -           |        |
| 14.5                                         | -            | -           |        |

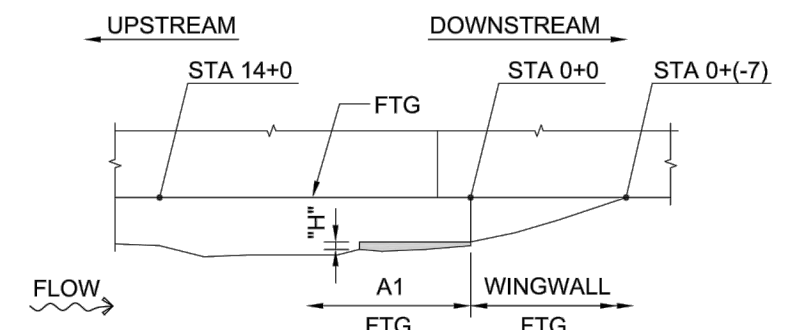


**A** SCOUR DETAIL @ P1 CRM PROTECTION

| A1 FTG @ DNSTRM END SCOUR DIMENSIONS TABLE |                |              |             |        |
|--------------------------------------------|----------------|--------------|-------------|--------|
| NOTE                                       | STATION (FEET) | "H" (HEIGHT) | "D" (DEPTH) | PHOTO  |
| WINGWALL FTG                               | -7             | 0"           | -           | 11, 12 |
|                                            | -6             | 4"           | -           |        |
|                                            | -4             | 1'-0"        | -           |        |
|                                            | -2             | 1'-7"        | -           |        |
| A1 FTG                                     | 0              | 2'-0"        | 2"          |        |
|                                            | 2              | 2'-0"        | 4"          |        |
|                                            | 4              | 2'-0"        | 5"          |        |
|                                            | 5              | 2'-0"        | 4"          |        |
|                                            | 6              | 2'-7"        | -           |        |
|                                            | 8              | 2'-7"        | -           |        |
|                                            | 10             | 2'-7"        | -           |        |
|                                            | 12             | 2'-8"        | -           |        |
|                                            | 14             | 2'-2"        | -           |        |



**PLAN - A1 @ DNSTRM END**



**ELEVATION - A1 @ DNSTRM END**

**B** SCOUR DETAIL @ A1 FTG DNSTRM END

**BRIDGE PLAN (DEFECTS AND SCOUR DETAILS)**

Bridge Name: ALAE (NAALAE GULCH) BRIDGE

MONITOR  
INSPECTION

State of Hawaii  
Department of Transportation,  
Maui District

Structure No.: 009003770500058

Scale: NTS

Route No.: 00377

Date of Inspection: 06/04/2024

TMK: 2-2-006

Mile Post: 8.57

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| CHECKED BY        |      |
| NOTE BOOK         |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |

TO KEOKEA

TO PUKALANI

SOUNDINGS DATUM  
REFERENCE POINT  
ELEVATION = 0.00

SPAN 1 (S1)

SPAN 2 (S2)

SPAN 3 (S3)

METAL  
GUARDRAIL,  
TYPICAL

CONCRETE  
BRIDGE PARAPET

CONCRETE  
END POST,  
TYPICAL

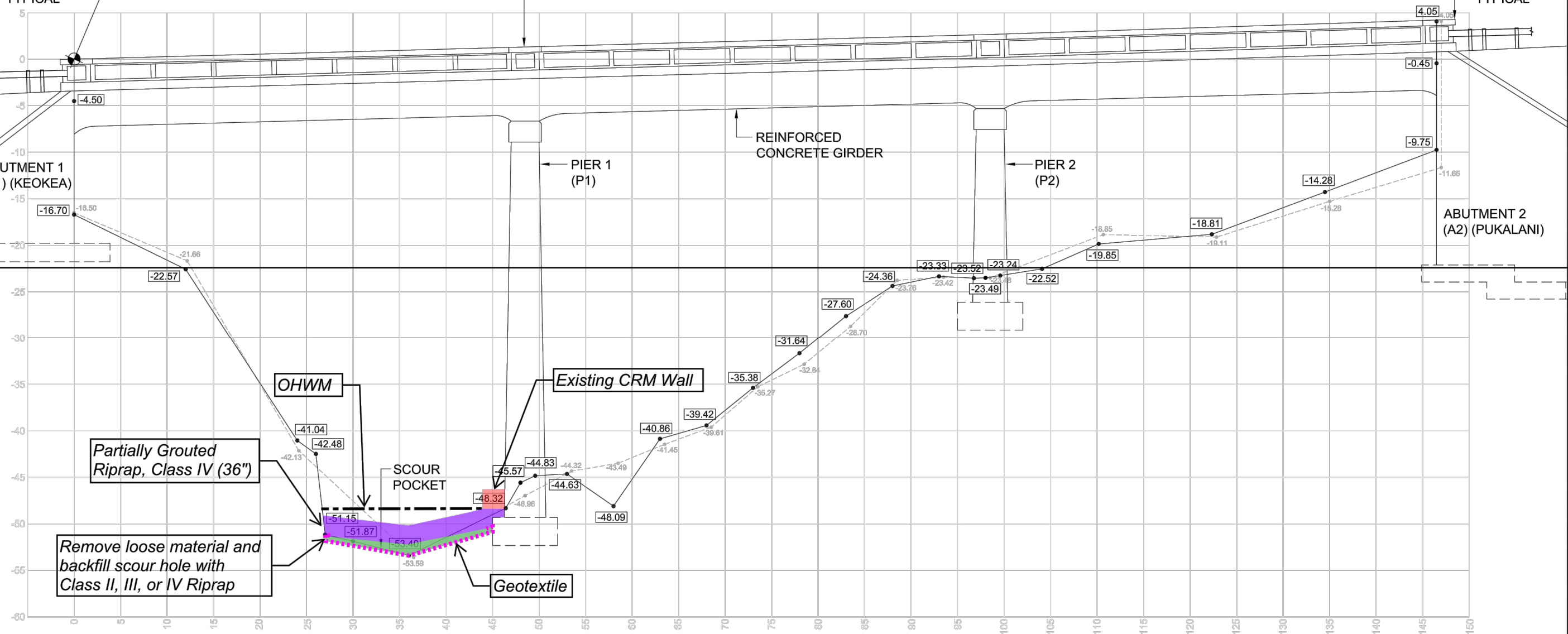
ABUTMENT 1  
(A1) (KEOKEA)

PIER 1  
(P1)

REINFORCED  
CONCRETE GIRDER

PIER 2  
(P2)

ABUTMENT 2  
(A2) (PUKALANI)



Source: Alae (Naalae Gulch) Bridge Inspection Report  
Prepared by: Nagamine Okawa Engineers Inc.  
Date: 6/04/2024

### SOUNDINGS AT UPSTREAM SIDE OF BRIDGE LOOKING DOWNSTREAM

Bridge Name: ALAE (NAALAE GULCH) BRIDGE

MONITOR  
INSPECTION

Structure No. : 009003770500058

Scale: NTS

Route No.: 00377

Date of Inspection: 06/04/2024

TMK: 2-2-006

Mile Post: 8.57

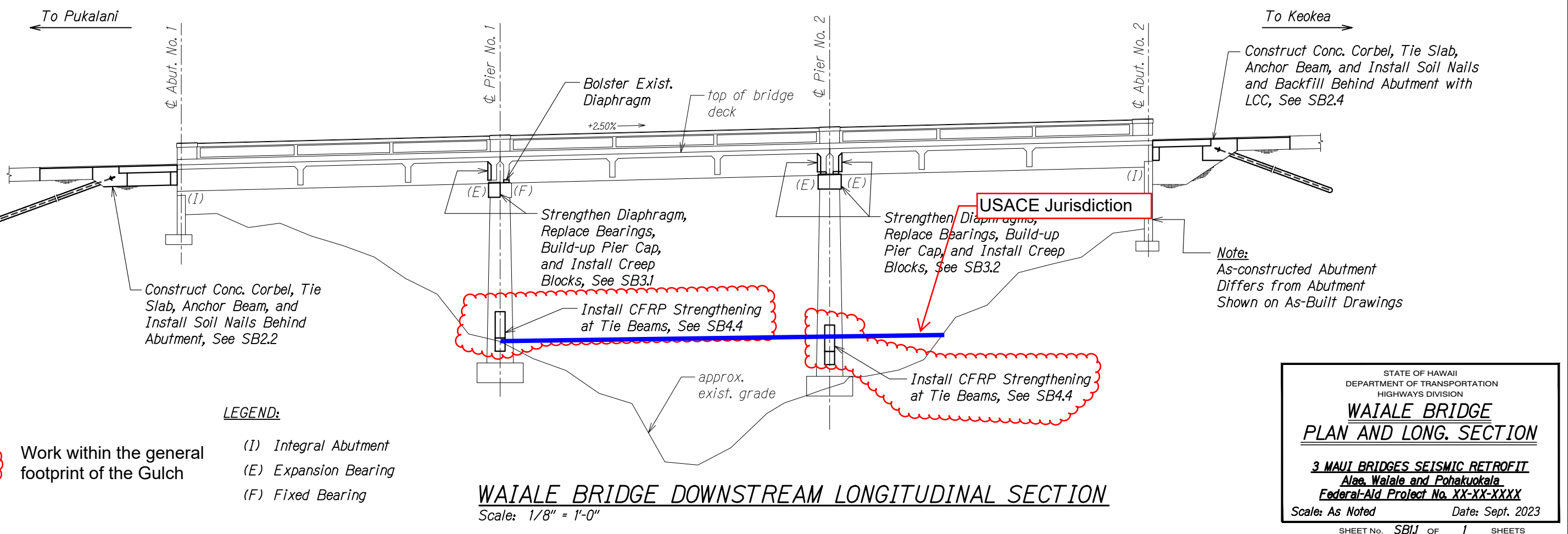
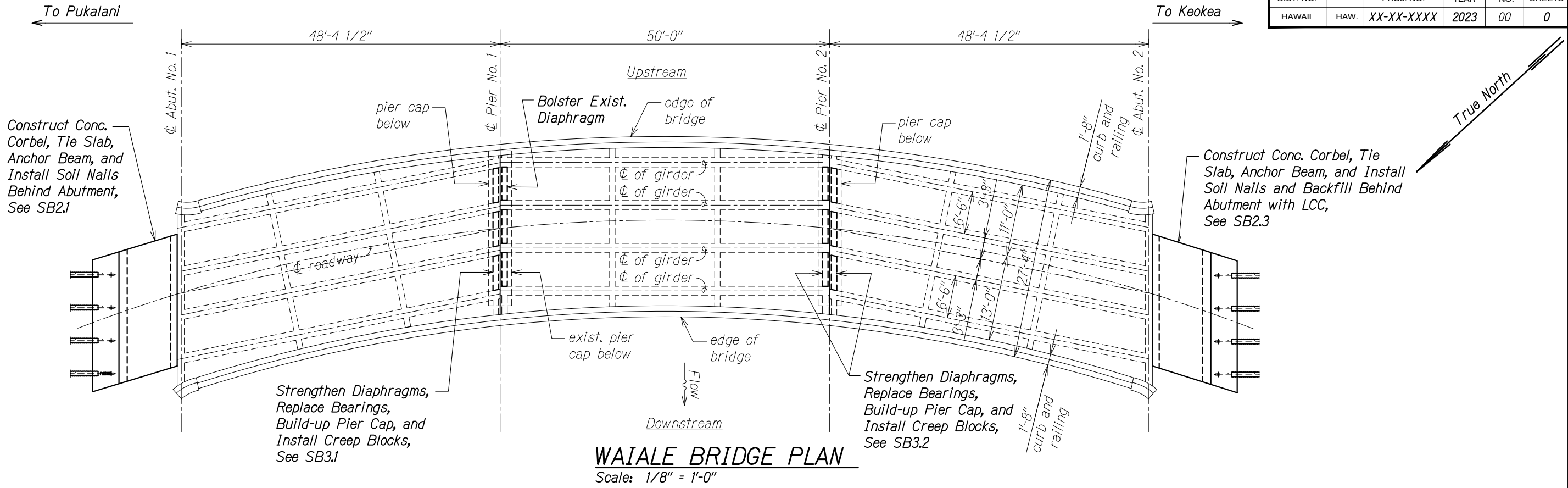
State of Hawaii  
Department of Transportation,  
Maui District

AS-BUILT INFORMATION DOES  
NOT MATCH EXISTING  
CONDITIONS. THEREFORE,  
BRIDGE FOUNDATION ELEVATIONS  
CANNOT BE DETERMINED.

KEY  
0.00 ELEVATION IN FEET 06 / 2024  
0.00 ELEVATION IN FEET 01 / 2023

PW404 or PW700

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | XX-XX-XXXX            | 2023        | 00        | 0            |



|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |

DRAWING NAME: 3 MAUI BRIDGES SEISMIC RETROFIT (WSP) CAD09-20-23-MB-SEB01-WAIALE.DWG PLOT TIME: 09-20-23, 12:47 PM

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**WAIALE BRIDGE**  
**PLAN AND LONG. SECTION**

**3 MAUI BRIDGES SEISMIC RETROFIT**  
**Alae, Waiale and Pohakuokala**  
**Federal-Aid Project No. XX-XX-XXXX**

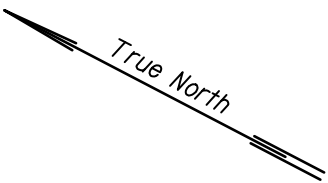
Scale: As Noted Date: Sept. 2023

SHEET No. **SBI.1** OF **1** SHEETS

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | XX-XX-XXXX            | 2023        | 00        | 0            |

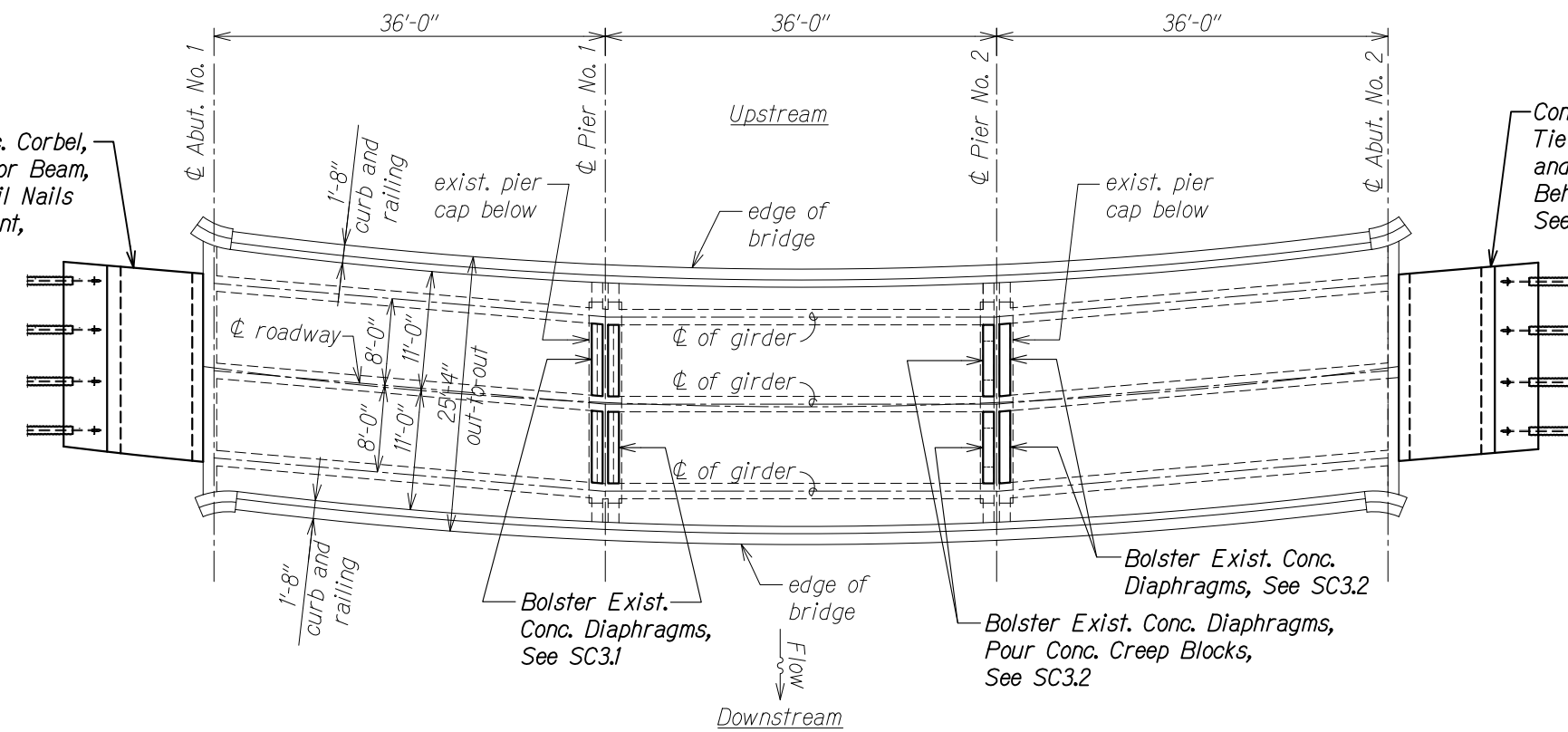
To Pukalani

To Keokea



Construct Conc. Corbel, Tie Slab, Anchor Beam, and Install Soil Nails Behind Abutment, See SC2.1

Construct Conc. Corbel, Tie Slab, Anchor Beam, and Install Soil Nails Behind Abutment, See SC2.3



No work in the USACE jurisdiction

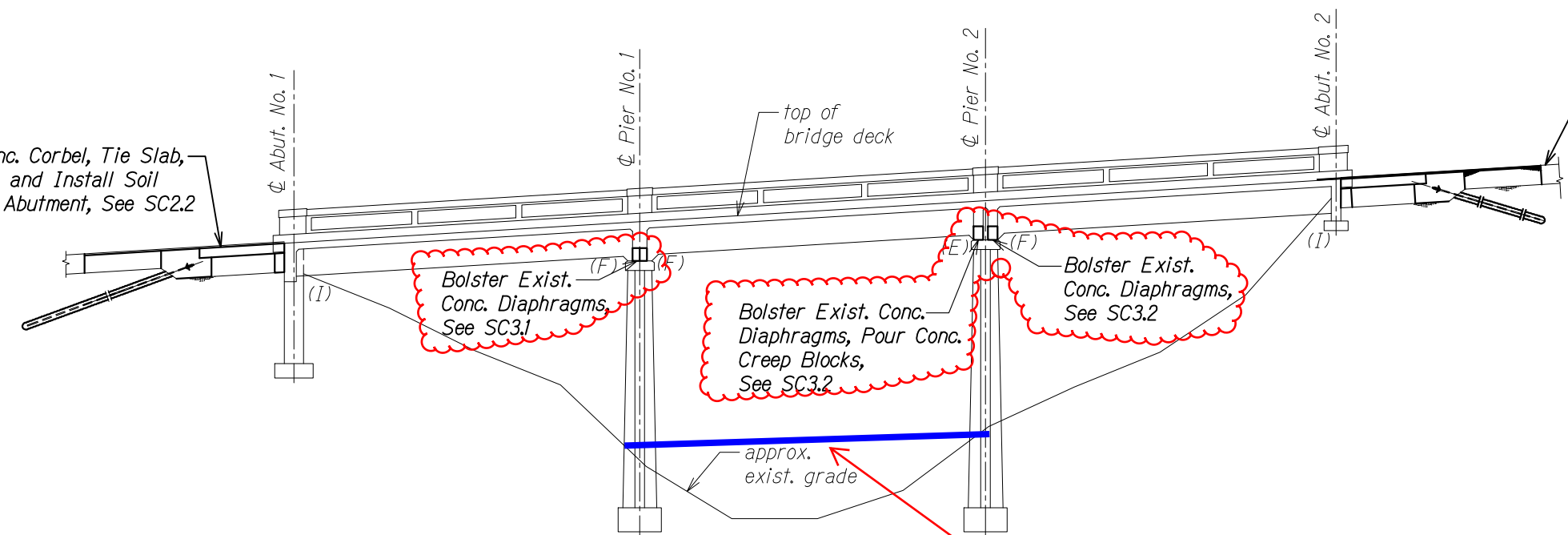
**POHAKUOKALA BRIDGE PLAN**  
Scale: 1/8" = 1'-0"

To Pukalani

To Keokea

Construct Conc. Corbel, Tie Slab, Anchor Beam, and Install Soil Nails Behind Abutment, See SC2.2

Construct Conc. Corbel, Tie Slab, Anchor Beam, and Install Soil Nails Behind Abutment, See SC2.4



**LEGEND:**

- (I) Integral Abutment
- (E) Expansion Bearing
- (F) Fixed Bearing

Work within the general footprint of the Gulch

USACE Jurisdiction

**POHAKUOKALA BRIDGE DOWNSTREAM LONGITUDINAL SECTION**  
Scale: 1/8" = 1'-0"

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**POHAKUOKALA BRIDGE**  
**PLAN AND LONG. SECTION**

**3 MAUI BRIDGES SEISMIC RETROFIT**  
**Alae, Waiale and Pohakuokala**  
**Federal-Aid Project No. XX-XX-XXXX**

Scale: As Noted      Date: Sept. 2023

SHEET No. **SC1.1** OF **1** SHEETS

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     | No.  |
| NOTE BOOK         |      |

DRAWING NAME: 3 MAUI BRIDGES SEISMIC RETROFIT (WSP) CAD: 09-20-23 12:20 PM

# Attachment 7

Agency Coordination

Section 106 of the National Historic Preservation Act

State Historic Preservation Concurrence  
on  
Section 106 Determination

JOSH GREEN, M.D.  
GOVERNOR | KE KIA'ĀINA

SYLVIA LUKE  
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA



STATE OF HAWAII | KA MOKU'ĀINA 'O HAWAI'I  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
KA 'OIHANA KUMUWAIWAI 'ĀINA

STATE HISTORIC PRESERVATION DIVISION  
KAKUHIHEWA BUILDING  
601 KAMOKILA BLVD, STE 555  
KAPOLEI, HAWAII 96707

DAWN N. S. CHANG  
CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT

RYAN K.P. KANAKA'OLE  
FIRST DEPUTY

CIARA W.K. KAHANE  
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
BUREAU OF CONVEYANCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
CONSERVATION AND COASTAL LANDS  
CONSERVATION AND RESOURCES ENFORCEMENT  
ENGINEERING  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
KAHOOLAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

November 29, 2024

Richelle Takara  
Division Administrator  
Federal Highway Administration, Hawai'i Federal-Aid Division  
U.S. Department of Transportation  
300 Ala Moana Boulevard, Room 3-229, Box 50206  
Honolulu, Hawai'i 96850  
Email Reply to: Richelle.Takara@dot.gov  
Electronic Transmittal Only, No Hard Copy to Follow

IN REPLY REFER TO:  
Project No.: 2024PR00463  
Doc. No.: 2411SH13  
Archaeology  
Architecture

Dear Richelle Takara:

SUBJECT: **National Historic Preservation Act (NHPA) Section 106 Review – Continued Consultation and Request for Concurrence with the Effect Determination Seismic Retrofit Haleakala Highway Route 377, Waiale Gulch, Alae (Naalae Gulch) and Pulehu Gulch (Pohakuokala) Bridges  
FHWA Ref. No. HDA-HI, Federal Aid-Project No. STP-0377(008)  
Aapueo, Kalialinui, Omaopio, Pulehunui, and Alae 1-2 Ahupua'a, Kula District, Island of Maui  
TMK: (2) 2-2-006:999 and (2) 2-3-999:999**

The State Historic Preservation Division (SHPD) received a letter dated November 7, 2024 from the Federal Highway Administration (FHWA) to continue the NHPA Section 106 consultation process and to request the State Historic Preservation Officer's (SHPO's) concurrence with the effect determination for the Seismic Retrofit project along Haleakala Highway Route 377 at Waiale Gulch, Alae (Naalae Gulch) and Pulehu Gulch (Pohakuokala) Bridges on the island of Maui. The SHPD received this submittal on November 7, 2024 (HICRIS Submission No. 2024PR00463.003).

The proposed HDOT project will receive coordination and funding from the FHWA and is therefore a federal undertaking as defined in 36 CFR 800.16(y); the FHWA determined the proposed project is subject to compliance with Section 106 of the NHPA. Pursuant to the Programmatic Delegation of Authority (May 2016), the FHWA has delegated Section 106 consultation to HDOT. The project is also subject to historic preservation review under Hawai'i Revised Statutes (HRS) §6E-8.

According to the letter received, the proposed undertaking will seismic retrofit three bridges on Maui (Waiale Gulch, Pohakuokala, and Alae).

The FHWA has defined the discontinuous Area of Potential Effects as follows:

- Waiale Bridge is located in Kula and carries Haleakala Highway over Waiale Gulch. The APE includes the existing Haleakala Highway roadway right-of-way (ROW) and the existing bridge footprint, which is located between mileposts 3.5 and 4.5. The APE at this location is approximately 0.92 acres. It includes the

length and width of the roadway that is 700 feet long and up to 65 feet wide. The maximum depth of excavation would be 3 feet behind the existing bridge abutments.

- Pohakuokala Bridge (Pulehu Gulch) is located in Kula and carries Kekaulike Avenue over Pulehu Gulch. The APE includes the existing Kekaulike Avenue ROW and the existing bridge footprint, which is located between mileposts 5 and 5.5. The APE at this location is approximately 0.54 acres. It includes the length and width of the roadway that is 375 feet long and up to 65 feet wide. The maximum depth of excavation would be 3 feet behind the existing bridge abutments.
- Alae Bridge is located in Kula and carries Kekaulike Avenue over Naalae Gulch south of Kepaninai/Kula Botanical Gardens. The APE includes the existing Kekaulike Avenue ROW and existing bridge footprint, which is located between mileposts 8 and 9. The APE at this location is approximately 0.57 acres. It includes the length and width of the roadway that is 320 feet long and up to 85 feet wide. The maximum depth of excavation would be 7 feet behind the existing bridge abutments.

FHWA states construction Staging and Storage would be located within the HDOT operational ROW.

The FHWA identified the three subject bridges as historic properties eligible for listing in the National Register of Historic Places (NRHP). The FHWA states the Waiale Bridge, Pohakuokala Bridge, and the Alae Bridge identified within the APE would be preserved and maintained for their current functions. All work will occur below the bridge deck or adjacent to the bridge and there will be no noticeable change to the visual aesthetic or character defining features of the Waiale Bridge, Pohakuokala Bridge and the Alae Bridge by this project.

The FHWA opines the potential for historic properties or other cultural resources within the APE to be impacted by the undertaking is minimal.

The SHPO previously requested HDOT and FHWA take into consideration whether the bridges and road in the APE are historic properties. The historic significance of the road, Kekaulike Avenue, was not addressed directly by FHWA as requested by the SHPO. The FHWA does state:

The Waiale Bridge is significant for its contribution to the areas of engineering and transportation in Hawaii. The bridge is eligible under Criterion A as a representative of an important public works project initiated by the territorial government and constructed with federal work relief programs funds during the Depression era. The bridge and roadway contributed to the economic development of the region by providing reliable vehicular access between Kula farms and the markets in Wailuku and Makawao...The Waiale Bridge is one of two built in 1934 on Kekaulike Avenue; it was preceded by four bridges constructed the year before under the same contract.

Based on the above, the SHPO opines that Kekaulike Avenue may be a historic property and/or a portion of a historic district.

The FHWA has determined the proposed project will result in no adverse effect. **The SHPO concurs.** Please note, the SHPO's concurrence is based on the APE defined and the written scope of work received from HDOT and FHWA. Any deviations from the scope of work or the APE requires the Section 106 consultation process is re-opened prior to the project moving forward, to consider the potential for effects to historic properties resulting in project scope or APE revisions.

**Please submit** any forthcoming information and correspondence related to the subject project to SHPD via HICRIS under Project No. 2024PR00463 using the Project Supplement option.

The HDOT and the FHWA are the offices of record for this undertaking. Please maintain a copy of this letter with your environmental review record for this undertaking.

Please contact Mary Kodama, Acting Architecture Branch Chief at [Mary.Kodama@hawaii.gov](mailto:Mary.Kodama@hawaii.gov), for any matters regarding architectural resources. Please contact Stephanie Hacker, Historic Preservation Archaeologist IV, at [Stephanie.Hacker@hawaii.gov](mailto:Stephanie.Hacker@hawaii.gov) or at (808) 692-8046, for any matters regarding archaeological resources or this letter.

Richelle Takara  
November 29, 2024  
Page 3

Aloha,

A handwritten signature in black ink, appearing to be 'Dawn N. S. Chang', written over a horizontal line.

Dawn N. S. Chang, Esq.  
DLNR Chairperson  
State Historic Preservation Officer

cc: Meesa Otani, FHWA (Meesa.Otani@dot.gov)  
Jillian Chen, HDOT (Jillian.M.Chen@hawaii.gov)  
Lawrence Laus, HDOT (Lawrence.M.Laus@hawaii.gov)  
Todd Nishioka, WSP (Todd.Nishioka@wsp.com)

United States Fish and Wildlife Service

Section 7 of the Endangered Species Act  
Concurrence on Not Likely to Adversely Affect Determination



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Pacific Islands Fish and Wildlife Office  
300 Ala Moana Boulevard, Room 3-122  
Honolulu, Hawai'i 96850



In Reply Refer To:  
2024-0069637-S7-001

June 25, 2025

Richelle M. Takara, P. E.  
Division Administrator  
U.S. Department of Transportation  
Federal Highways Administration  
Hawaii Federal-Aid Division  
300 Ala Moana Blvd., Rm 3-229  
PO Box 50206  
Honolulu, HI 96850

Subject: Informal Consultation for the Proposed Seismic Retrofit Haleakalā Highway,  
Route 377, Wai'ale Gulch, 'Alae (Nā'alae Gulch), and Pūlehu Gulch  
(Pōhakuokalā) Bridges Project, Maui

Dear Richelle Takara:

The U.S. Fish and Wildlife Service (Service) Pacific Islands Fish and Wildlife Office received your letter dated March 31, 2025, requesting informal consultation for the proposed Seismic Retrofit Haleakalā Highway, Route 377, Wai'ale Gulch, 'Alae (Nā'alae Gulch), and Pūlehu Gulch (Pōhakuokalā) Bridges project on Maui. You have determined that the proposed project may affect, but is not likely to adversely affect the following federally listed species: the endangered 'ōpe'ape'a (Hawaiian hoary bat, *Lasiurus cinereus semotus*); nēnē (Hawaiian goose, *Branta sandvicensis*); Blackburn's sphinx moth (*Manduca blackburni*); endangered ae'o (Hawaiian stilt, *Himantopus mexicanus knudseni*), 'alae ke'oke'o (Hawaiian coot, *Fulica alai*), koloa maoli (Hawaiian duck, *Anas wyvilliana*) (hereafter collectively referred to as Hawaiian waterbirds); endangered Hawai'i Distinct Population Segment of the 'akē'akē (band-rumped storm-petrel, *Hydrobates castro*), endangered 'ua'u (Hawaiian petrel, *Pterodroma sandwichensis*), and threatened 'a'o (Newell's shearwater, *Puffinus newelli*) (hereafter collectively referred to as Hawaiian seabirds).

The findings and recommendations in this consultation are based on the following: 1) your informal consultation request and other documents provided including the biological survey report performed by H.T. Harvey & Associates, dated February 2025, the Service's official species list from Information for Planning and Consultation (IPaC), project location maps, engineering drawings; 2) email communications between Service and Federal Highway

---

## PACIFIC REGION 1

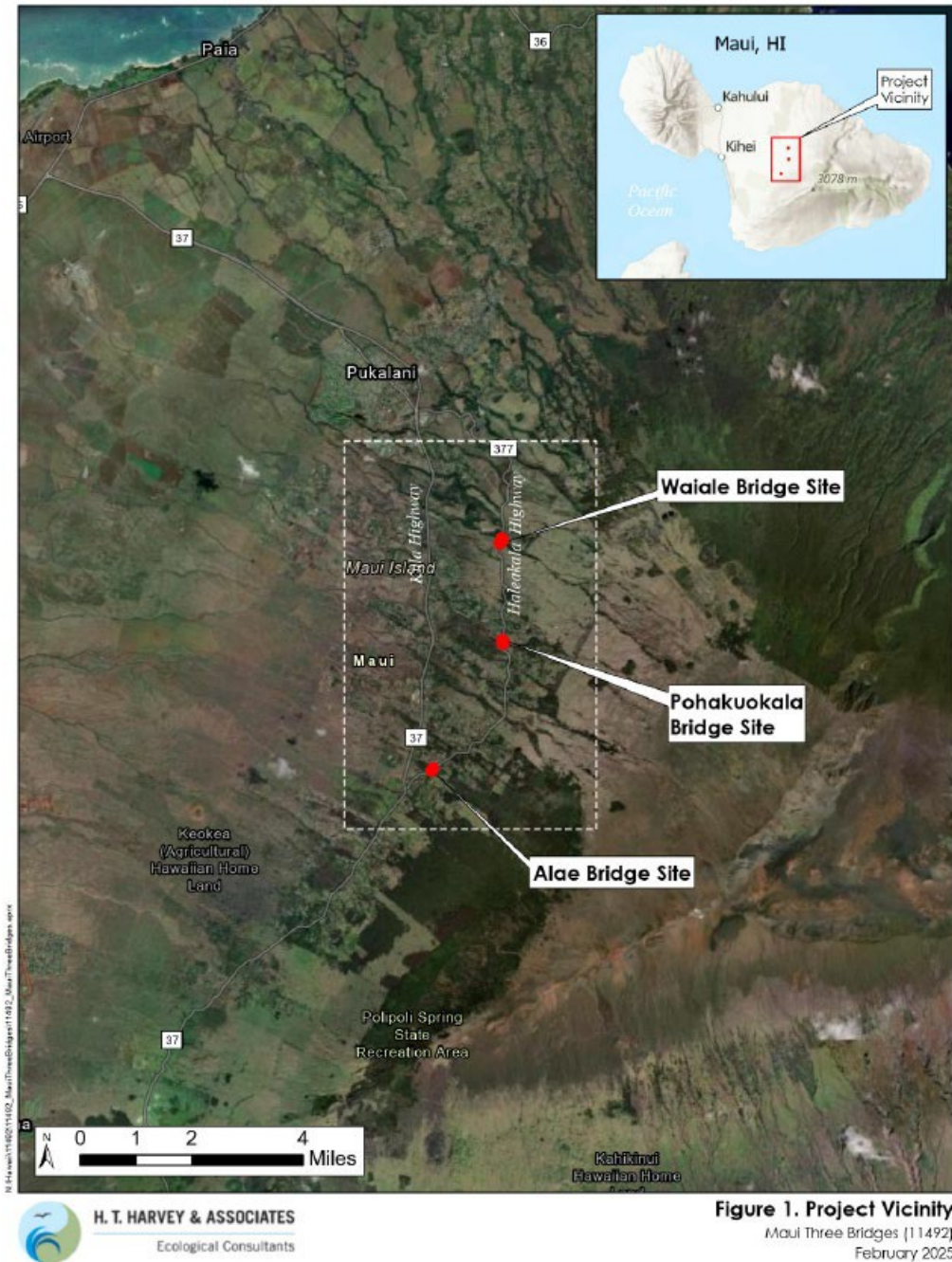
IDAHO, OREGON\*, WASHINGTON,  
AMERICAN SĀMOA, GUAM, HAWAII, NORTHERN MARIANA ISLANDS

\*PARTIAL

Administration (FHWA) on May 15 and April 15, 2025; and 4) other biological information available to us. This response is in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*) (ESA).

### **Project Description**

The Federal Highway Administration, in cooperation with the State of Hawai‘i Department of Transportation (HDOT), is planning the seismic retrofit of three Maui Bridges Project. The project is located in Kula, east Maui on the west slope of Haleakalā Volcano, Maui County, Hawai‘i (Figure 1). The proposed work is to rehabilitate and seismic retrofit three Maui Bridges including Wai‘ale Gulch, ‘Alae (Nā‘alae Gulch), and Pūlehu Gulch (Pōhakuokalā) Bridges. The anticipated construction work for the seismic retrofit of the three bridges will consist of removing debris from the piers, wrapping the piers with carbon fiber to the top of footing to reinforce the piers, potentially excavating around the footings to expose the piers to the top of the footings, and it is likely that installing the carbon fiber wrap may require work below the Ordinary High-Water Mark. The project will also remove a portion of the backfill from behind the bridge abutments and backfilling with Controlled Low Strength Material (CLSM) and tying the abutment to the CLSM backfill using soil nails. Additionally, the project will replace the creep blocks at the bents (where the piers abut with the bridge beams) and enforce the pier caps.



**Figure 1.** Three bridge locations on the west slope of Haleakalā Volcano, Kula, east Maui.

The Contractor will perform all work and stage equipment within the Hawai‘i Department of Transportation right of way on the roadway, and no more than 10 feet from the roadway shoulder including the area underneath the bridges. All work located within the subject streams will be coordinated and discussed with the U.S. Army Corps of Engineers (USACE) and if any work requires authorization by the USACE, then the project would obtain a Nationwide permit for the activity and all conditions required by the permit would be complied with.

The Contractor will use appropriate Best Management Practices such as filter socks, drip pans, etc. to prevent pollution from entering any receiving water body or drainage system. If in-water work occurs, the project will implement site-specific BMPs for work in aquatic environments. Full roadway closures at each bridge would be necessary for a short period of time. By closing each bridge for a short timeframe, the project will minimize impacts by avoiding the need for access roads to the bottom of the gulch or erecting temporary bridges during construction.

### *Conservation measures*

#### ‘Ōpe‘ape‘a

To avoid and minimize project impacts to ‘ōpe‘ape‘a, the following measures will be implemented:

- Woody plants greater than 15 feet tall will not be disturbed, removed, or trimmed during the birthing and pup rearing season for the ‘ōpe‘ape‘a, June 1 through September 15.
- Barbed wire fencing will not be used for the proposed project.

#### Nēnē

To avoid and minimize project impacts to nēnē, the following measures will be implemented:

- Birds will not be approached, fed, or disturbed.
- If nēnē are observed loafing or foraging within the project area during the breeding season, September through April, a biologist familiar with nēnē nesting behavior will survey for nests in and around the project area prior to the resumption of any work. Surveys will be repeated after any subsequent delay of work of 3 or more days (during which the birds may attempt to nest).
- All work will cease immediately, and the Service will be contacted for further guidance if a nest is discovered within a radius of 150 feet of the project, or a previously undiscovered nest is found within the 150-foot radius after work begins.
- In areas where nēnē is known to be present, reduced speed limits will be posted and implemented; project personnel and contractors will be informed about the presence of endangered species on-site.

#### Blackburn’s Sphinx Moth

- A biologist familiar with the species will survey areas of proposed activities for Blackburn’s sphinx moth and its larval host plants prior to work initiation.
  - Surveys will be conducted during the wettest portion of the year (usually November-April or several weeks after a significant rain) and within 4-6 weeks prior to construction.
  - Surveys will include searches for adults, eggs, larvae, and signs of larval feeding (chewed stems, frass, or leaf damage).
  - If moths, eggs, larvae, or native ‘aiea or tree tobacco over 3 feet tall, are found during the survey, the Service will be contacted for additional guidance to avoid impacts to this species.
- If no Blackburn’s sphinx moth, ‘aiea, or tree tobacco are found during surveys, measures will be taken to avoid attracting Blackburn’s sphinx moth to the project location and prohibiting tree tobacco from entering the site.
  - Tree tobacco less than 3 feet tall will be removed.

- The site will be monitored every 4 to 6 weeks for new tree tobacco growth before, during, and after the proposed ground-disturbing activity.
- Tree tobacco can be monitored by any staff, such as groundskeeper or regular maintenance crew, provided with picture placards of tree tobacco at different life stages.

#### Hawaiian Waterbirds

To avoid and minimize project impacts to Hawaiian waterbirds, the following measures will be implemented:

- In areas where waterbirds are known to be present, reduced speed limits will be posted and implemented, and project personnel and contractors will be informed about the presence of endangered species on-site.
- Applicable best management practices regarding work in aquatic environments will be incorporated if water resources are located within or adjacent to the project site (Attachment B).
- A biological monitor that is familiar with the species' biology will conduct Hawaiian waterbird nest surveys at the area of concern prior to project initiation. Surveys will be repeated within 3 days of project initiation and after any subsequent delay of work of three or more days (during which time the birds may attempt to nest).
  - If a nest or active brood is found, the Service will be contacted within 48 hours for further guidance.
  - A 100-foot (30 meter) buffer will be established and maintained around all active nests and/or broods until the chicks/ducklings have fledged. Potentially disruptive activities or habitat alteration will not be conducted within this buffer.
  - A biological monitor that is familiar with the species' biology will be present on the project site during all construction or earth moving activities until the chicks/ducklings fledge.

#### Hawaiian Seabirds

To avoid and minimize project impacts to Hawaiian seabirds, the following measures will be implemented:

- All outdoor lights will be fully shielded so the bulb can only be seen from below.
- Lights will be turned off when human activity is not occurring in the lighted area.
- No nighttime construction will occur during the seabird fledging period, September 15 through December 15.

The Project will implement Service recommended Invasive Species Biosecurity Protocols (Attachment A) and Best Management Practices For Work in or Around Aquatic Environment (Attachment B).

#### **Effects to Listed Species**

##### ‘Ōpe‘ape‘a

The ‘ōpe‘ape‘a roosts in woody vegetation across all islands, potentially year-round, and leave their young unattended in trees and shrubs during foraging. Young bats that are unable to fly may be injured or killed when trees or shrubs 15 feet (ft) or taller are cleared during the pupping

season (June 1 through September 15). Additionally, ‘ōpe‘ape‘a forage for insects from as low as 3 feet to higher than 500 feet above the ground and can become entangled in barbed wire used for fencing.

By incorporating the conservation measures described above for ‘ōpe‘ape‘a, including not clearing trees or vegetation greater than 15 feet tall between June 1 and September 15, it is unlikely that ‘ōpe‘ape‘a be harmed or killed as a result of project activities. Also, because barbed wire will not be used, it is unlikely that foraging ‘ōpe‘ape‘a become entangled. Therefore, effects to the ‘ōpe‘ape‘a are discountable.

#### Nēnē

Nēnē are found on the islands of Hawai‘i, Maui, Moloka‘i, and Kaua‘i. They are observed in a variety of habitats, but prefer open areas, such as pastures, golf courses, wetlands, natural grasslands and shrublands, and lava flows. Threats to the species from the proposed project include potential strikes from vehicles.

By implementing the conservation measures above, including reducing speed limits to avoid vehicular interactions, including having a biologist survey for nests prior to project work if nēnē are observed loafing or foraging in the project area during breeding season (September through April), ceasing all work immediately if a nest is discovered within a radius of 150 feet of proposed work, posting and implementing reduced speed limits, and informing all project personnel of the possible presence of nēnē, it is unlikely that nēnē be run over or crushed. Therefore, effects from the proposed project are considered discountable.

#### Blackburn’s Sphinx Moth

The adult Blackburn’s sphinx moth feeds on nectar from native plants, including pōhuehue (beach morning glory, *Ipomoea pes-caprae*), ‘ilie‘e (*Plumbago zeylanica*), maiapilo (*Capparis sandwichiana*), and others. Blackburn’s sphinx moth larvae feed on nonnative tree tobacco (*Nicotiana glauca*) and native ‘aiea (*Nothocestrum* spp.). To pupate, the larvae burrow into the soil and can remain in a state of torpor for a year or more before emerging from the soil. Soil disturbance can result in death of the pupae. Tree tobacco plants are present within the project location at Pōhakuokalā bridge and Wai‘ale gulch bridge; however, no Blackburn’s sphinx moth, eggs, or larvae were observed during a biological survey.

By implementing the conservation measures above, including conducting surveys for both Blackburn’s sphinx moth and its larval host plants prior to starting construction activities by a biologist knowledgeable about the species’ biology and contacting the Service immediately if Blackburn’s sphinx moths, eggs, larvae are found, and if native ‘aiea or tree tobacco over 3 ft tall are found, it is unlikely that Blackburn’s sphinx moth be disturbed. In addition, because tree tobacco will be prohibited from entering the site through monitoring and removal, it is unlikely that Blackburn’s sphinx moth larvae or eggs be crushed. Therefore, effects to the Blackburn’s sphinx moth are discountable.

#### Hawaiian waterbirds

Listed Hawaiian waterbirds are found in various wetland habitats including fresh and brackish-water marshes, natural or man-made ponds, coastal estuaries, artificial reservoirs, *Colocasia*

*esculenta* (kalo or taro) lo'i or patches, and irrigation ditches. Ae'o may also be found wherever ephemeral or persistent standing water may occur, such as sediment or detention basins.

Threats to these species include habitat degradation and human activity adjacent to nesting sites. Waterbirds are expected to flush when human activity occurs nearby. If nesting occurs nearby, the birds may be prevented from caring for nests or young. If activity includes the use of vehicles, young birds could be inadvertently run over and crushed.

By implementing the conservation measures described above, including conducting surveys prior to construction work by a biologist who is familiar with the species' biology and stopping work in areas where Hawaiian waterbirds are present, it is unlikely that adult Hawaiian waterbirds be disturbed and leave nests exposed for extended periods of time causing the nest to fail. In addition, because reduced speed limits will be posted and implemented, it is unlikely that Hawaiian waterbird nests or chicks be crushed by human or vehicular activities. Therefore, effects are considered discountable.

#### Hawaiian seabirds

Hawaiian seabirds may traverse the project area at night during the breeding, nesting, and fledging seasons (March 1 to December 15). Outdoor night lighting used at night can result in seabird disorientation, fallout, and injury or mortality because seabirds are attracted to lights and after circling the lights, they may become exhausted and collide with nearby wires, buildings, or other structures or they may land on the ground. Young birds (fledglings) are particularly vulnerable to light attraction when they are traversing the project area between September 15 and December 15, as they are making their first flights from their mountain nests to the sea. Downed seabirds are subject to increased mortality due to collision with automobiles, starvation, and predation by dogs, cats, and other predators.

By implementing the above-described conservation measures, including avoiding nighttime construction during the seabird fledging season from September 15 through December 15, fully shielding all outdoor lights, ensuring lights are only visible from below, and turning off lights when human activity is not occurring in the area, it is unlikely that Hawaiian seabirds become attracted to lights, become disoriented, and fallout, resulting in injury or mortality. Because impacts from the proposed project is unlikely, effects are considered discountable.

#### **Summary**

Based on the project description, implementation of the avoidance and minimization measures, and because effects from the action are discountable, we concur that the proposed action may affect, but is not likely to adversely affect the 'ōpe'ape'a, nēnē, Hawaiian waterbirds, Hawaiian seabirds, and Blackburn's sphinx moth.

Reinitiation of this consultation is required by the Service, where discretionary Federal involvement or control over the proposed actions has been retained or is authorized by law and:

- 1) If new information reveals effects of the action that may affect listed species or critical habitat in a manner or to an extent not previously considered;

- 2) If the identified action is subsequently modified in a manner that causes an effect to listed species or critical habitat that was not considered herein; or
- 3) If a new species is listed or critical habitat designated that may be affected by the proposed actions.

Thank you for participating in the protection of federally listed species. If you have any questions, please contact Jay Nelson, at [jay\\_nelson@fws.gov](mailto:jay_nelson@fws.gov) or at [pifwo\\_admin@fws.gov](mailto:pifwo_admin@fws.gov). When referring to this project, please include this reference number: 2024-0069637.

Sincerely,

CHELSIE  
JAVAR-SALAS

Digitally signed by  
CHELSIE JAVAR-SALAS  
Date: 2025.06.25  
15:50:34 -10'00'

Island Team Manager – Maui Nui and Hawai‘i Island  
Pacific Islands Fish and Wildlife Office

**Attachments: A: Invasive Species Biosecurity Protocols**  
**B: BMPs For Work in or Around Aquatic Environment**

## Attachment A: Invasive Species Biosecurity Protocols

**PIFWO Invasive Species Biosecurity Protocols**  
(Updated February 2022)

Project activities may introduce or spread invasive species, causing negative ecological consequences to new areas or islands, resulting in potential impacts to fish, wildlife, and their habitat. For example, seeds of invasive plant species (e.g., *Chromolaena odorata*, *Senecio madagascariensis*, *Cyathea cooperi*, or *Miconia calvescens*) can be inadvertently transported on equipment from a previous work site to a new site where the species are not present. Likewise, equipment used in an area infected with a pathogen or insect pest that can have ecological consequences (e.g., rapid 'ōhi'a death (*Ceratocystis spp.*), black twig borer (*Xylosandrus compactus*), or naio thrips (*Klambothrips myopori*), if not properly decontaminated, can act as a vector to introduce the pathogen into a new area. Additionally, vehicles must be properly inspected and cleaned to ensure vertebrate or invertebrate pests do not stowaway and spread to other areas. These are just a few examples of how even well-intended project activities may inadvertently introduce or spread invasive species.

To avoid and minimize invasive species potential impacts to fish, wildlife, and their habitat we recommend incorporating general biosecurity protocols into your project planning. Additionally, your project occurs in a geographic area and/or involves activities that risk spreading the following specific invasive species: little fire ant. Therefore, we recommend including additional protocols specific to those invasive species. Additional consultation is recommended if project activities involve transportation of materials, equipment, vehicles, etc. between islands or transpacific movement of materials or equipment.

**Invasive Species Biosecurity Protocol**

The following biosecurity protocol is recommended to be incorporated into planning for your project to avoid or minimize transportation of invasive species with potential to impact to fish, wildlife, and their habitat. Cleaning, treatment, and/or inspection activities are the responsibility of the equipment or vehicle owner and operator. However, it is ultimately the responsibility of the action agency to ensure that all project materials, vehicles, machinery, equipment, and personnel are free of invasive species before entry into a project site. Please refer to the resources listed below for current removal/treatment recommendations that may be relevant to your project.

1. Cleaning and treatment:

Project applicants should assume that all project materials (i.e., construction materials, or aggregate such as dirt, sand, gravel, etc.), vehicles, machinery, and equipment contain dirt and mud, debris, plant seeds, and other invasive species, and therefore require thorough cleaning. Treatment for specific pests, for example, trapping and poison baiting for rodents, or baiting and fumigation for insects, should be considered when applicable. For effective cleaning we offer the following recommendations prior to entry into a project site:

- a. Project materials, vehicles, machinery, and equipment must be pressure washed thoroughly (preferably with hot water) in a designated cleaning area. Project

materials, vehicles, machinery, and equipment should be visibly free of mud/dirt (excluding aggregate), seeds, plant debris, insects, spiders, frogs (including frog eggs), other vertebrate species (e.g., rodents, mongoose, feral cats, reptiles, etc.), and rubbish. Areas of particular concern include bumpers, grills, hood compartments, wheel wells, undercarriage, cabs, and truck beds. Truck beds with accumulated material are prime sites for hitchhiking invasive species.

- b. The interior and exterior of vehicles, machinery, and equipment must be free of rubbish and food, which can attract pests (i.e., rodents and insects). The interiors of vehicles and the cabs of machinery should be vacuumed clean particularly for any plant material or seeds.
2. Inspection:
  - a. Following cleaning and/or treatment, project materials, vehicles, machinery, and equipment, must be visually inspected by its user, and be free of mud/dirt (excluding aggregate), debris, and invasive species prior to entry into a project site. For example, careful visual inspection of a vehicle's tires and undercarriage is recommended for any remaining mud that could contain invasive plant seeds.
  - b. Any project materials, vehicles, machinery, or equipment found to contain invasive species (e.g., plant seeds, invertebrates, rodents, mongoose, cats, reptiles, etc.) must not enter the project site until those invasive species are properly removed/treated.
3. For all project site personnel:
  - a. Prior to entry into the project site, visually inspect and clean your clothes, boots or other footwear, backpack, radio harness, tools and other personal gear and equipment for insects, seeds, soil, plant parts, or other debris. We recommend the use of a cleaning brush with sturdy bristles. Seeds found on clothing, footwear, backpacks, etc., should be placed in a secure bag or similar container and discarded in the trash rather than being dropped to ground at the project site or elsewhere.
4. Additional considerations:
  - a. Consider implementing a Hazard Analysis and Critical Control Point (HACCP) plan (<https://www.fws.gov/policy/A1750fw1.html>) to improve project planning around reducing the risk of introducing or spreading invasive species.
  - b. When applicable, use pest-free or low-risk sources of plants, mulch, wood, animal feed or other materials to be transported to a project site.
  - c. For projects involving plants from nurseries (e.g., outplanting activities, etc.), all plants should be inspected, and if necessary, appropriately cleaned or treated for invasive species prior to being transported to the project site.
  - d. Avoid unnecessary exposure to invasive species at a particular site (to the extent practical) to reduce contamination and spread. For example, if your project involves people or equipment moving between multiple locations, plan and organize timelines so that work is completed in native habitat prior to working in a disturbed location to reduce the likelihood of introducing a pest into the native habitat.

- e. Maintain good communication about invasive species risks between project managers and personnel working on the project site (e.g., conduct briefings and training about invasive species). Ensure prevention measures are communicated to the entire project team. Also consider adding language on biosecurity into contracts or permitting mechanisms to provide clarity to all involved in the project. Report any species of concern or possible introduction of invasive species to appropriate land managers.

For current removal/treatment recommendations please refer to the following:

Hawaiian Islands:

- Hawai‘i Island – <https://www.biisc.org/>
- Maui – <https://mauiinvasive.org/>
- Moloka‘i - <https://www.molokaiisc.org/>
- Lāna‘i - <https://pulamalanai.com/>
- O‘ahu – <https://www.oahuisc.org/>
- Kaua‘i – <https://www.kauaiisc.org/>

### Species-Specific Biosecurity Protocols

Table 1. Current island distribution of invasive species with specific biosecurity protocols in the Pacific Islands (PIFWO jurisdiction).

| Island            | Invasive Species with Specific Protocols |                 |                           |                 |
|-------------------|------------------------------------------|-----------------|---------------------------|-----------------|
|                   | Rapid ‘Ōhi‘a Death                       | Little Fire Ant | Coconut Rhinoceros Beetle | Brown Treesnake |
| Island of Hawai‘i | widespread                               | widespread      | not present               | not present     |
| Maui              | incipient                                | incipient       | not present               | not present     |
| O‘ahu             | incipient                                | incipient       | widespread                | not present     |
| Kaua‘i            | widespread                               | not present     | not present               | not present     |
| Guam              | NA                                       | widespread      | widespread                | widespread      |
| CNMI              | NA                                       | not present     | Rota only                 | not present     |
| American Samoa    | NA                                       | incipient       | widespread                | not present     |

### Little Fire Ant (LFA)

The little fire ant (*Wasmannia auropunctata*), or LFA, is an invasive species with a painful sting that can inhabit many different environments. In Hawai‘i, it often infests agricultural fields and farms, damaging crops and stinging unsuspecting workers. Little fire ants are also highly disruptive to native tropical ecosystems and harmful to wildlife. Slow moving, but tiny and capable of foraging 24 hours a day with multiple queens per colony, LFA is a formidable threat to biodiversity, agriculture, and quality of life on tropical islands in the Pacific.

For more information about LFA including helpful guides and workshops for treating or detecting LFA, please visit [www.littlefireants.com](http://www.littlefireants.com).

To reduce the risk of spreading LFA, the following biosecurity protocol is recommended:

**Biosecurity Protocol for LFA**

1. For projects involving plants from nurseries (e.g., outplanting activities, etc.), all plants should be inspected for little fire ants and other pests prior to being transported to the project site. If plants are found to be infested by ants of any species, plants should be sourced from an alternative nursery and the infested nursery should follow treatment protocols recommended by the Hawai'i Ant Lab (<https://littlefireants.com/wp-content/uploads/2020-Management-of-Pest-Ants-in-Nurseries-min.pdf>).
2. All work vehicles, machinery, and equipment should follow steps 1 and 2 in the "Invasive Species Biosecurity Protocol" for (1) cleaning and treatment and (2) inspection for invasive ants prior to entering a project site.
3. Any machinery, vehicles, equipment, or other supplies found to be infested with ants (or other invasive species) must not enter the project site until it is properly treated (<https://littlefireants.com/how-to-treat-for-little-fire-ants-for-homeowners/#recommended-bait-products>) and re-tested. Infested vehicles must be treated following recommendations by the Hawai'i Ant Lab (<https://littlefireants.com/resource-center/>) or another ant control expert and in accordance with all State and Federal laws. Treatment is the responsibility of the equipment or vehicle owner. Ultimately however, it is the responsibility of the action agency to ensure that all project materials, vehicles, machinery, and equipment follow the appropriate protocol(s).
4. General Vehicle Ant Hygiene: Even the cleanest vehicle can pick up and spread little fire ant. Place MaxForce Complete Brand Granular Insect Bait (1.0 percent Hydramethylnon; [https://labelsds.com/images/user\\_uploads/Maxforce%20Complete%20Label%201-5-18.pdf](https://labelsds.com/images/user_uploads/Maxforce%20Complete%20Label%201-5-18.pdf)) into refillable tamper resistant bait stations. An example of a commercially available refillable tamper resistant bait station is the Ant Café Pro (<https://www.antcafe.com/>). Place a bait station (or stations) in the vehicle and note that larger vehicles, such as trucks, may require multiple stations. Monitor bait stations frequently (every week at a minimum) and replace bait as needed. If the bait station does not have a sticker to identify the contents, apply a sticker listing contents to the station.
5. Gravel, building materials, or other equipment such as portable buildings should be baited using MaxForce Complete Brand Granular Insect Bait (1.0 percent Hydramethylnon; [https://labelsds.com/images/user\\_uploads/Maxforce%20Complete%20Label%201-5-18.pdf](https://labelsds.com/images/user_uploads/Maxforce%20Complete%20Label%201-5-18.pdf)) or AmdroPro (0.73 percent Hydramethylnon; <https://connpest.com/labels/AMDROPRO.pdf>) following label guidance.
6. Storage areas that hold field tools, especially tents, tarps, and clothing should be baited using MaxForce Complete Brand Granular Insect Bait (1.0 percent Hydramethylnon; [https://labelsds.com/images/user\\_uploads/Maxforce%20Complete%20Label%201-5-18.pdf](https://labelsds.com/images/user_uploads/Maxforce%20Complete%20Label%201-5-18.pdf)) or AmdroPro (0.73 percent Hydramethylnon; <https://connpest.com/labels/AMDROPRO.pdf>) following label guidance.

7. Vehicles that have entered a project site known or thought to overlap with areas infested with LFA should subsequently be tested for LFA with baiting in accordance with protocol recommended by the Hawai'i Ant Lab (<https://littlefireants.com/survey-your-home-for-lfa/>).
8. If LFA are detected, please report it to 808-643-PEST (Hawai'i), 671-475-PEST (Guam), or 684-699-1575 (American Samoa). Please visit <https://littlefireants.com/identification-of-little-fire-ants/> for assistance in identifying LFA.

### **Rapid 'Ōhi'a Death (ROD)**

Rapid 'Ōhi'a Death (ROD) is caused by a fungal pathogen (*Ceratocystis* spp.) that attacks and kills 'ōhi'a trees (*Metrosideros polymorpha*). 'Ōhi'a is endemic to the Hawaiian Islands and is the most abundant native tree species, comprising approximately 80 percent of Hawai'i's remaining native forests.

For more information about ROD including its current distribution, ROD science updates, and the latest on ROD protocol, please visit [www.rapidohiadeath.org](http://www.rapidohiadeath.org).

To reduce the risk of spreading ROD, the following best management practices and decontamination protocol are recommended:

### **Best Management Practices for ROD**

1. Never transport any part of an 'ōhi'a tree between different areas of an island or to a different island.
2. Do not use equipment from ROD infected islands on another island unless it is very specialized equipment and follows the decontamination protocol described below.
3. Avoid wounding 'ōhi'a trees and roots with mowers, chainsaws, weed eaters, and other tools. If an 'ōhi'a receives a minor injury like a small broken branch, then give the injury a clean, pruning-type cut (close to the main part of the trunk or branch) to promote healing, and then spray the entire wounded area with a pruning seal.
4. Always report suspect ROD 'ōhi'a trees observed within your project area. ROD is a wilt disease that cuts off the supply of water and nutrients to the tree. The primary symptom to look for is an entire canopy or a large branch with dying leaves or red discolored leaves. Please record the GPS coordinates and location and take a picture of the tree if possible. Please report suspected ROD 'ōhi'a trees to the following agencies:
  - a. Island of Hawai'i – BIISC: 808-969-8268 ([ohialove@hawaii.edu](mailto:ohialove@hawaii.edu))
  - b. Maui – MISC: 808-573-6472 ([miscpr@hawaii.edu](mailto:miscpr@hawaii.edu))

## Attachment B: BMPs For Work in or Around Aquatic Environment

**U.S. Fish and Wildlife Service  
Recommended Standard Best Management Practices (BMPs)**

The U.S. Fish and Wildlife Service (Service) recommends the following measures are incorporated into project planning to avoid or minimize impacts to fish and wildlife resources. Incorporation of these BMPs may reduce negative impacts to aquatic habitats from project construction-related activities. These BMPs are recommended in addition to, and do not over-ride any terms, conditions, or other recommendations prepared by the Service, other Federal, state, or local agencies. Please contact the Service Aquatic Ecosystems Conservation Program at 808-792-9400 with any questions.

1. Authorized dredging and filling-related activities that may result in the temporary or permanent loss of aquatic habitats should be designed to avoid indirect, negative impacts to aquatic habitats that extend beyond the planned project area.
2. Dredging/filling in the marine environment should be scheduled to avoid coral spawning and recruitment periods, and sea turtle nesting and hatching periods. Because these periods vary throughout the Pacific islands, we recommend contacting the relevant local, state, or Federal fish and wildlife resource agency for site specific guidance.
3. Turbidity and siltation from project-related work should be minimized and contained within the project area by silt containment devices and curtailing work during flooding or adverse tidal and weather conditions. The BMPs should occur for the life of the construction period until turbidity and siltation within the project area is stabilized. All project construction-related debris and sediment containment devices should be removed and disposed of at an approved site.
4. All project construction-related materials and equipment (i.e., dredges, vessels, backhoes, silt curtains, etc.) to be placed in an aquatic environment should be inspected for pollutants including, but not limited to; marine fouling organisms, grease, oil, etc., and cleaned to remove pollutants prior to use. Project related activities should not result in any debris disposal, nonnative species introductions, or attraction of nonnative pests to the affected or adjacent aquatic or terrestrial habitats. Implementing both a litter-control plan and a Hazard Analysis and Critical Control Point plan (HACCP – see <https://www.fws.gov/policy/A1750fw1.html>) can prevent attraction and introduction of nonnative species.
5. Project construction-related materials (i.e., fill, revetment rock, pipe, etc.) should not be stockpiled in, or in close proximity to aquatic habitats and should be protected from erosion (e.g., with filter fabric, etc.), to prevent materials from being carried into waters by wind, rain, or high surf.
6. Fueling of project-related vehicles and equipment should occur away from the aquatic environment and a contingency plan to control petroleum products accidentally spilled during the project should be developed. The plan should be retained on site with the person responsible for compliance with the plan. Absorbent pads and containment booms should be stored on-site to facilitate the clean-up of accidental petroleum releases.
7. All deliberately exposed soil or under-layer materials used in the project near water should be protected from erosion and stabilized as soon as possible with geotextile, filter fabric or native or non-invasive vegetation matting, hydro-seeding, etc.

Section 7 of the Endangered Species Act  
National Oceanic and Atmospheric Administration  
Informal Section 7 Consultation

and

Essential Fish Habitat

FHWA No Effect Determination

**[EXTERNAL] RE: Maui - STP-0377(008) Seismic Retrofit, Haleakala Highway Route 377 - Section 7 and EFH Amended Email**

Otani, Meesa (FHWA) <meesa.otani@dot.gov>

on behalf of

FHWA-Hawaii.Enviro <FHWA-Hawaii.Enviro@dot.gov>

Mon 5/20/2024 2:03 PM

To: Laus, Lawrence M <lawrence.m.laus@hawaii.gov>

Cc: Chen, Jillian M <jillian.m.chen@hawaii.gov>

Hi Lawrence,

Given the information below, the FHWA has made a determination that the proposed project will have no effect on:

- Species listed under the Endangered Species Act or their designated critical habitat administered by the National Marine Fisheries Service.
- Essential fish habitat under the Magnuson-Stevens Fishery Conservation and Management Act.

If there are any scope changes that would require consultation, please let FHWA know.

Thanks!

Meesa

---

**From:** Laus, Lawrence M <lawrence.m.laus@hawaii.gov>

**Sent:** Sunday, May 12, 2024 11:57 AM

**To:** FHWA-Hawaii.Enviro <FHWA-Hawaii.Enviro@dot.gov>

**Cc:** Chen, Jillian M <jillian.m.chen@hawaii.gov>

**Subject:** Maui - STP-0377(008) Seismic Retrofit, Haleakala Highway Route 377 - Section 7 and EFH Amended Email

**CAUTION:** This email originated from outside of the Department of Transportation (DOT). Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Hi,

Please see below for amended Section 7 and EFH:

Dear Ms. Otani,

The State of Hawaii Department of Transportation (HDOT), in cooperation with the Federal Highways Administration (FHWA), is planning the Seismic Retrofit, Haleakala Highway Route 377, Waiale Gulch, Alae (Naalae Gulch) and Pulehu Gulch (Pohakuokala) Bridges Project (Federal Aid Project No.: STP-0377(008)).

The anticipated construction work for the seismic retrofit of all 3 bridges shall consist of:

- Removal of debris from the piers;
- Wrapping the piers with carbon fiber wrap down to the top of footing. Excavation will be required. The carbon fiber wrap will likely require work in the water, below the

Ordinary High-Water Mark (OHWM);

- Removal of a portion of the backfill from behind the abutments and backfilling with Controlled Low Strength Material (CLSM) and tying the abutment to the CLSM backfill; and
- Replacement of the creep blocks at the bents.
- Pier footing upgrades.

All work, including staging areas, will be confined to the HDOT right-of-way.

A map of the project area and photos of the project area are attached to this email.

HDOT seeks FHWA's concurrence that the project will have "no effect" on species listed under the Essential Fish Habitat and Section 7 of the Endangered Species Act as administered by NMFS. The 3 project sites are located inland and at its closest point, is approximately 8 miles from the ocean and is therefore not adjacent to a marine environment.

Additionally, Best Management Practices (BMP) will be installed for this project per the Contractor's means and methods as required by the HDOT Construction BMP Handbook and An Integrated Storm Water Management Approach and a Summary of Clear Water Diversion and Isolation Best Management Practices for Use in the State of Hawaii, by the Federal Highway Administration and Hawaii Department of Transportation Practitioners Guide (Practitioners Guide). Site Specific BMPs for this project will be submitted by the Contractor and approved by HDOT.

The Western Pacific Regional Fishery Management Council (Council) has established EFH for Bottomfish and Seamount Groundfish, as well as Crustaceans, and Coral Reef Ecosystems as generally beginning in the marine water column at the shoreline, including tidally influenced stream areas surrounding all islands of Hawaii. Other Management Unit Species (MUS) include Precious Coral and Pelagic species; however, these specific EFH are too geographically distant to experience potential effects from the proposed action. No tidally influenced stream is present within the project area.

HDOT therefore believes this project to have "no effect" on species listed under the Essential Fish Habitat and Section 7 of the ESA as administered by NMFS. We respectfully request concurrence from FHWA on these determinations.

Please contact us should you have any questions or concerns.

Regards,

Lawrence M. Laus, P.E.  
Hawaii Department of Transportation  
Highways, Design Branch (Acting HWY-DE)  
Office: (808) 692-7575  
Mobile: (808) 679-6487