



Natural Resources Conservation Service
300 Ala Moana Boulevard, RM 4-118
Honolulu, HI 96850

Date: February 29, 2012

Pacific Islands Area FOTG Notice PI-39

SUBJECT: DOCUMENTS FOR 7 ENGINEERING PRACTICES

This Notice releases documents for the following Section IV updated conservation practices:

1. Farmstead Energy Improvement (374)
2. Grade Stabilization Structure (410)
3. Irrigation System, Sprinkler (442)
4. Open Channel (582)
5. Pond (378)
6. Structure for Water Control (587)
7. Trails and Walkways (568)

Instructions.

Please refer to the following table for a description of the specific documents released. The documents have been posted to Pacific Islands Area FOTG, and are available for viewing and printing online at: http://efotg.sc.egov.usda.gov/efotg_locator.aspx.

Contact.

If you have any questions about:

- All of the engineering practice documents, contact David Fischer, State Resource Engineer, at (808) 322-2484 ext.105 or at David.Fischer@hi.usda.gov.
- This notice, contact Kara Nelson, Resource Conservationist, at (808) 541-2600 ext.121 or at Kara.Nelson@hi.usda.gov.

A handwritten signature in blue ink, appearing to read "Angel Figueroa", is written over a light blue circular stamp.

ANGEL FIGUEROA
Director
Pacific Islands Area

Distribution: AE (All Employees)

The following is a description of the documents released and changes made to FOTG:

Document	Description
PI FOTG Notice PI-39	New PI Notice.
PI Register of FOTG Notices	Revised PI Register.
Section IV Table of Contents	Revised Section IV Table of Contents.
Section IV – Index of Standards and Specifications	Revised Index.
Farmstead Energy Improvement (374) <ul style="list-style-type: none"> • Standard • Operation and Maintenance Plan • Statement of Work 	Farmstead Energy Improvement (374) – Development and implementation of improvements to reduce, or improve the energy efficiency of on-farm energy use. This is a new conservation practice standard. The title was changed from “On-Farm Equipment Efficiency Improvements” to “Farmstead Energy Improvement.” The Definition was changed. A new Purpose of “Reduce Energy Use” with accompanying Criteria was added. Technologies with corresponding industry standards were added to the Criteria section.
Grade Stabilization Structure (410) <ul style="list-style-type: none"> • Operation and Maintenance Plan 	Grade Stabilization Structure (410) – A structure used to control the grade and head cutting in natural or artificial channels. Created an Operation and Maintenance Plan for the PIA.
Irrigation System, Sprinkler (442) <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	Irrigation System, Sprinkler (442) – An irrigation system in which all necessary equipment and facilities are installed for efficiently applying water by means of nozzles operated under pressure. A new Purpose of “Reduce Energy Use” and accompanying Criteria and Reference were added.
Open Channel (582) <ul style="list-style-type: none"> • Specification • Operation and Maintenance Plan 	Open Channel (582) – Constructing or improving a channel either natural or artificial, in which water flows with a free surface. Created a Specification and an Operation and Maintenance Plan for the PIA.
Pond (378) <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	Pond (378) – A water impoundment made by constructing an embankment or by excavating a pit or dugout. In this standard, ponds constructed by the first method are referred to as embankment ponds, and those constructed by the second method are referred to as excavated ponds. Ponds constructed by both the excavation and the embankment methods are classified as embankment ponds if the depth of water impounded against the embankment at the auxiliary spillway elevation is 3 feet or more. A new Purpose of “Develop Renewable Energy Systems” and accompanying additional Criteria was added.

Document	Description
<p>Structure for Water Control (587)</p> <ul style="list-style-type: none"> • Standard • Operation and Maintenance Plan • Statement of Work 	<p>Structure for Water Control (587) – A structure in a water management system that conveys water, controls the direction or rate of flow, maintains a desired water surface elevation or measures water.</p> <p>Only one significant change was made to this standard. The “Criteria” section, under the Stability subsection, was changed to require stability analysis based on tractive stress, rather than the velocity approach previously required.</p>
<p>Trails and Walkways (568)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Trails and Walkways (568) – A pathway for pedestrian, equestrian, bicycle, other off-road modes of recreation travel, farm-workers, construction/maintenance access and small walk behind equipment.</p> <p>More detail was added to the purposes. The criteria were changed, eliminating specific reference to 4,000 lb. design load. The reference to Design Note 24 was made in lieu of the American Association of State Highway and Transportation Officials publication. Minimum requirements for plan and specification content were added. Minimum requirements for operation and maintenance (O&M) plans were added. References were also added.</p>

