



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

Date: January 10, 2011

Pacific Islands Area FOTG Notice PI-38

SUBJECT: COST DATA UPDATES, CONSERVATION ACTIVITY PLANS TECHNICAL CRITERIA AND DOCUMENTS FOR 16 ENGINEERING PRACTICES

This Notice releases documents for the following:

- Section I updated Cost Data for Conservation Planning
- Section III added the following Conservation Activity Plans Criteria and Templates:
 1. Comprehensive Nutrient Management Plan (102)
 2. Nutrient Management Plan (104)
 3. Forest Management Plan (106)
 4. Integrated Pest Management Plan (114)
 5. Irrigation Water Management Plan (118)
 6. Headquarters Agricultural Energy Management Plan (122)
 7. Landscape Agricultural Energy Management Plan (124)
 8. Drainage Water Management Plan (130)
 9. Conservation Plan Support Organic Transition (138)
- Section IV updated conservation practices:
 1. Access Road (560)
 2. Animal Trails and Walkways (575)
 3. Clearing and Snagging (326)
 4. Diversion (362)
 5. Dust Control from Animal Activity on Open Lot Surfaces (375)
 6. Grassed Waterway (412)
 7. Heavy Use Area Protection (561)
 8. Lined Waterway or Outlet (468)
 9. Pond Sealing or Lining Compacted Clay Treatment (521D)
 10. Rock Barrier (555)
 11. Roofs and Covers (367)
 12. Stream Crossing (578)
 13. Streambank and Shoreline Protection (580)
 14. Surface Drain Field Ditch (607)
 15. Surface Drain Main or Lateral (608)
 16. Underground Outlet (620)

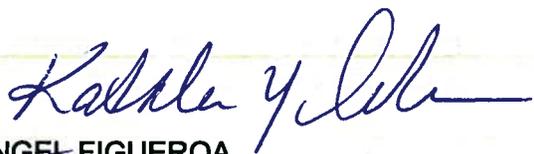
Instructions.

Please refer to the following table for a description of the specific documents released. The documents have been posted to Pacific Islands Area ftp site and eFOTG, 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.
- Cost data and/or this notice, contact Kara Nelson, Resource Conservationist, at (808) 541-2600 ext.121 or at Kara.Nelson@hi.usda.gov.



 ANGEL FIGUEROA
Director
Pacific Islands Area

Distribution: AE (All Employees)

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

Document	Description
PI FOTG Notice PI-38	New PI Notice.
PI Register of FOTG Notices	Revised PI Register.
PI FOTG Table of Contents	Revised Table of Contents.
Section I Table of Contents	Revised Section I Table of Contents.
Cost Data for Conservation Planning	Cost data associated with practice payment schedules have been updated for FY-2012. These can be used for conservation planning, contracting, and may be shared with clients.
Section III Table of Contents	Revised Section III Table of Contents.
Conservation Activity Plans – Technical Criteria	National technical criteria and templates have been added.
Section IV Table of Contents	Revised Section IV Table of Contents.
Section IV – Index of Standards and Specifications	Revised Index.
Access Road <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Access Road (560) – A travel-way for equipment and vehicles constructed as part of a conservation plan.</p> <p>This standard was formally reviewed and updated to include public comments received through the Federal Register review process. Criteria were added to locate away from bodies of water. Overland flow is also to be avoided.</p>
Animal Trails and Walkways (575) <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Animal Trails and Walkways (575) – Established lanes or travel ways that facilitate animal movement.</p> <p>Proposed revisions are limited but include greater emphasis of potential impacts to water courses and other environmental and cultural resources.</p>
Clearing and Snagging (326) <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Clearing and Snagging (326) – Removal of vegetation along the bank (clearing) and/or selective removal of snags, drifts, or other obstructions (snagging) from natural or improved channels and streams.</p> <p>No significant technical changes were made to this practice standard; however, significant edits and grammatical changes have been made. Revised Definition to clarify that clearing and snagging includes the removal of vegetation from streambanks. Criteria were limited to the purposes stated, while Considerations were expanded to improve the conservation function. Policy statements (e.g., must comply with Federal, State, and local laws and regulations) were removed from the standard. Minimum requirements for plan and specification content were added. References were added.</p>

Document	Description
<p>Diversion (362)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Diversion (362) – A channel generally constructed across the slope with a supporting ridge on the lower side.</p> <p>Revisions include: a change from permissible velocity to an effective stress approach in design for stability and capacity of the diversion; expansion of the Plans and Specifications section; and updated references.</p>
<p>Dust Control from Animal Activity on Open Lot Surfaces (375)</p> <ul style="list-style-type: none"> • Standard • Operation and Maintenance Plan • Statement of Work 	<p>Dust Control from Animal Activity on Open Lot Surfaces (375) – Reducing or preventing the emissions of particulate matter arising from animal activity on open lot surfaces at animal feeding operations.</p> <p>This standard was formally reviewed to include public comments received through the Federal Register review process. This is a new conservation practice standard.</p>
<p>Grassed Waterway (412)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • BLANK Jobsheet • EXAMPLE Jobsheet • Statement of Work 	<p>Grassed Waterway (412) – A shaped or graded channel that is established with suitable vegetation to carry surface water at a non-erosive velocity to a stable outlet.</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>Heavy Use Area Protection (561)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Heavy Use Area Protection (561) – The stabilization of areas frequently and intensively used by people, animals or vehicles by establishing vegetative cover, surfacing with suitable materials, and/or installing needed structures.</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>
<p>Lined Waterway or Outlet (468)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Lined Waterway or Outlet (468) – A waterway or outlet having an erosion-resistant lining of concrete, stone, synthetic turf reinforcement fabrics, or other permanent material.</p> <p>This standard was formally reviewed and updated to include public comments received through the Federal Register review process. Changes to the standard include the following: revision in the range in Manning’s roughness, and references cited in the criteria section; expansion of the “Considerations” section to include fish and wildlife and soil bioengineering, etc.; and more comprehensive guidance on what should be included in the “Plans and Specifications” section.</p>

Document	Description
<p>Pond Sealing or Lining Compacted Clay Treatment (521D)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Pond Sealing or Lining Compacted Clay Treatment (521D) – A liner for a pond or waste storage impoundment constructed using compacted soil without soil amendments.</p> <p>This standard was formally reviewed and updated to include public comments received through the Federal Register review process. The standard was revised to better match the changes to our technical guidance document, National Engineering Handbook Series, Part 651, AWMFH, Chapter 10, Appendix 10D.</p>
<p>Rock Barrier (555)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Rock Barrier (555) – A rock retaining wall constructed across the slope to form and support a bench terrace that will control the flow of water and check erosion on sloping land.</p> <p>This standard was formally reviewed and updated to include public comments received through the Federal Register review process. The “Considerations” section was expanded to consider the vegetation response and effects on microhabitats for wildlife and pollinators.</p>
<p>Roofs and Covers (367)</p> <ul style="list-style-type: none"> • Standard • Operation and Maintenance Plan • Statement of Work 	<p>Roofs and Covers (367) – A rigid, semi-rigid, or flexible manufactured membrane, composite material, or roof structure, placed over a waste management facility.</p> <p>This standard was formally reviewed and updated to include public comments received through the Federal Register review process. Changes to the standard include changing the name from Waste Facility Cover to Roofs and Covers, and adding additional purpose and criteria for reducing greenhouse gas emissions and odor reduction. Additional criteria for biogas control, utilization, and safety were incorporated into the standard. New criteria for design of roofs and covers have been incorporated into this standard and referenced in Animal Mortality Facility (Code 316) and Composting Facility (Code 317) for use consistency.</p>
<p>Stream Crossing (578)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Stream Crossing (578) – A stabilized area or structure constructed across a stream to provide a travel way for people, livestock, equipment, or vehicles.</p> <p>This standard was formally reviewed and updated to include public comments received through the Federal Register review process. Criteria include more details related to passage of aquatic organisms and hydraulic criteria.</p>
<p>Streambank and Shoreline Protection (580)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Streambank and Shoreline Protection (580) – Treatment(s) used to stabilize and protect banks of streams or constructed channels, and shorelines of lakes, reservoirs, or estuaries.</p> <p>This standard was formally reviewed and updated to include public comments received through the Federal Register review process. The reference to 322 was removed and replaced with a reference to 342.</p>

Document	Description
<p>Surface Drain Field Ditch (607)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Surface Drain Field Ditch (607) – A graded ditch for collecting excess water in a field.</p> <p>The title was changed from “Surface Drainage, Field Ditch.” Criteria for capacity was added, considerations expanded, and References were added.</p>
<p>Surface Drain Main or Lateral (608)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Surface Drain Main or Lateral (608) – An open drainage ditch constructed to a designed cross section, alignment and grade.</p> <p>The text was streamlined and References were added.</p>
<p>Underground Outlet (620)</p> <ul style="list-style-type: none"> • Standard • Specification • Operation and Maintenance Plan • Statement of Work 	<p>Underground Outlet (620) – A conduit or system of conduits installed beneath the surface of the ground to convey surface water to a suitable outlet.</p> <p>This standard was formally reviewed and updated to include public comments received through the Federal Register review process. The “Purpose” section was expanded to include other water concentration areas.</p>