

**NATURAL RESOURCES CONSERVATION SERVICE
DOCUMENTATION AND CERTIFICATION**

**IRRIGATION STORAGE RESERVOIR
Code 436**

The items below shall be recorded in the conservation plan, conservation notes or an approved form as minimum documentation requirements for a practice.

1. Location and Site Investigation

Environmental Checklist Form (CB-EVC-2)

Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide

Location Map (Topographic Quadrangles)

Aerial Photos

Surveying Plat (Property Limits)

Flooding Maps (FEMA)

SHPO - Cultural Resources Inventory

Maps from Utilities Co. Providers

References:

- TR-1, Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide
- Conservation Map
- NRCS, GM 420, Part 401, Cultural Resources
- USGS Topographic Quadrangles

2. Soils/Geology Investigation

Geologic Maps

Soil Boring - Form CB-ENG-016, Site Investigation Log Sheet

Conservation Plan Soil Map

Soil Testing Lab (Optional)

Log Test Pit

References:

- NRCS Area Soil Survey
- TR-1, Form CB-ENG-016, Site Investigation Log Sheet
- Unified Soil Classification Chart
- 210-VI-NEH-650.04, EFH Chapter 4, Elementary Soil Engineering
- 210-VI-GN-03, Geologic Investigation
- 210-VI-NEH Section 8, Engineering Geology

3. Engineering Survey

Form SCS-ENG-28

Form SCS-ENG-29

Surveying Computer Programs

References:

- 210-VI-TR-62, Engineering Layout, Notes, Staking and Calculations
- 210-VI-NEH-650.01, EFH Chapter 1, Engineering Survey

4. Engineering Criteria

References:

- CB FOTG Sec. IV, Code 436, Irrigation Storage Reservoir
- CB FOTG Sec. IV, Code 554, Drainage Water Management
- CB FOTG Sec. IV, Code 533, Pumping Plant for Water Control
- CB FOTG Sec. IV, Code 342, Critical Area Planting
- 210-VI-NEH-650.02, EFH Chapter 2, Estimating Runoff and Peak Discharges
- 210-VI-NEH-650.03, EFH Chapter 3, Hydraulics
- 210-VI-NEH-650.06, EFH Chapter 6, Structures
- 210-VI-NEH-650.11, EFH Chapter 11, Ponds and Reservoirs
- 210-VI-NEH-650.15, EFH Chapter 15, Irrigation
- 210-VI-TR-60, Earth Dams and Reservoirs
- 210-VI-DN-24, Guide for the Use of Geotextiles
- 210-VI-NEH-628.50, NEH Part 628. Chapter 50, Earth Spillway Design
- 210-VI-LAN-02, Landscape Design: Ponds
- CB FOTG Sec. IV, Code 521A, Pond Sealing or Lining, Flexible Membrane

5. Drafting and Drawings Output

Sketches and Drawings

Drafting Computer Programs

References:

- 210-VI-NEH-650.05, EFH Chapter 5, Preparation of Engineering Plans
- 210-VI-TR-73, Computer Aided Design and Drafting (CADD) Standards

6. Engineering Cost Estimates

Local Suppliers Material Cost Lists

References:

- CB FOTG Section I, Cost Data
- Blue Book

7. Construction Materials and Specifications

References:

- 210-VI-NEH-650.17, EFH Chapter 17, Construction and Construction Materials
- 210-VI-NEH - Part 642, Specifications for Construction Contracts
- ASTM Standard Specifications

- ASTM
8. Installation and Certification
- Certification that application meets NRCS standards and specifications

Reference:

- 210-VI-NEH, Section 19, Construction Inspection