

**NATURAL RESOURCES CONSERVATION SERVICE
DOCUMENTATION AND CERTIFICATION**

**PUMPING PLANT
Code 533**

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 Plan 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

References:

- NRCS Area Soil Survey
- TR-1, Form CB-ENG-016, Site Investigation Log Sheet
- Unified Soil Classification Chart

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 533, Pumping Plant
- CB FOTG Sec. IV, Code 516, Pipeline
- 210-VI-NEH-651.07, AWMFH Chapter 7, Geologic and Ground Water Control
- 210-VI-NEH-650.12, EFH Chapter 12, Springs and Wells
- 210-VI-NEH-650.14, EFH Chapter 14, Water Management (Drainage)
- 210-VI-NEH-631, NEH Part 631, Investigations for Ground Water Resources Development
- 210-VI-NEH-15, NEH Section 15, Chapter 8, Irrigation Pumping Plant

5. Drafting and Drawings

Drafting Computer Programs Output
Sketches and Drawings

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

References:

- CB FOTG Section I, Cost Data
- Local Suppliers Material Cost Lists

7. O&M and Safety

Operation and Maintenance Plan

References:

- OSHA Reference Manuals
- Manufacturer's Recommendations

8. 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

9. Installation and Certification

Certification that application meets NRCS standards and specifications

Reference:

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