

## **REGULATING WATER IN DRAINAGE SYSTEMS**

### **Design Surveys**

The following information shall be obtained and recorded in the field notes:

- a. Topographic survey information.
- b. Limiting and controlling ground and water surface elevations.
- c. Soils investigations.
- d. Notes regarding existing vegetation describing kind and desirability for preservation.

### **Design Data**

The following can be considered minimum information to be recorded in the design notes:

- a. Surface and subsurface water flow quantities.
- b. Practice objectives (fish & wildlife habitat enhancements, water quality, drainage, etc.).
- c. Water control structure design and details.
- d. Records indicating NRCS obligations have been met regarding State and Federal regulations including NEPA requirements.

### **Drawings and Specifications**

The construction drawings shall include but will not be limited to the following:

- a. Plan, profile, and typical cross-sections of required earth fill and excavation.
- b. Location and construction details of structures.
- c. Plan view of work area showing construction details and notations regarding vegetative requirements.
- d. Location map.

Practice specifications along with applicable "Items of Work and Construction Details" shall be provided as needed.

### **Layout Survey Notes**

The layout survey shall be recorded in the field notes and contain the following information:

- a. Centerline and slope stakes for earth fills and excavations.
- b. Grade and alignment stakes for conduits and structures.

**Compliance Checks**

The complexity of the system shall dictate the need for compliance checking during construction. A record of all construction checks shall be kept in the field notes. Compliance documentation shall be in the field notes and/or on the construction drawings, depending upon the type of construction included in the plan. Earth fills and open channels shall be checked for proper cross-section and elevation. Structural components shall be checked for proper elevation, dimensions location and materials. A statement of compliance shall be included.

**As-Built Plans**

Any significant changes and additions shall be recorded on the plans and labeled "As-Built".