

**NATURAL RESOURCES CONSERVATION SERVICE  
PRACTICE DOCUMENTATION MANUAL**

**IRRIGATION WATER CONVEYANCE, PIPELINE**

430

**STEP 1. INITIAL EVALUATIONS**

**PURPOSE**

The purpose of this step is to determine the landowner's desire to construct an irrigation pipeline in a predetermined location for the intended purpose(s) (See NRCS Conservation Practice Standard 430).

The landowner must be interviewed to determine the purpose and needs for an irrigation pipeline. Considerations will include the landowner goals and objectives, existing condition and effects of this practice on existing soil, water, air, plant, animal and human resources. A discussion of NRCS Irrigation Water Conveyance, Pipeline standards and specifications should also take place. Role of the landowner and the person assisting with the irrigation pipeline planning and construction should also be discussed. Additional pertinent questions should be asked on a site-specific basis.

**STEP 2. INVESTIGATIONS, SURVEYS, AND INVENTORIES**

**PURPOSE**

The purpose of this step is to identify the mandatory preliminary resource inventory and operations that are required before an irrigation pipeline can be planned and installed. Resource inventories will include all data and information needed to make informed decisions in the planning and construction of an irrigation pipeline and any follow-up management needs. Appropriate resource inventories could include soils, topography, crop (s) to be grown, water resources, and all physical features such as existing fencing, roads, water wells, natural barriers, ditches, and existing irrigation systems etc. that might have an effect on planning of the irrigation pipeline. Adjacent land uses and resources that would be affected by the irrigation pipeline construction should also be considered. Identify map resources needed such as the proper USGS 7.5 minute quadrangle sheet, soils, and road maps as well as aerial photography. Also include identifying all

needed utility clearances, archeological clearances (See NRCS Conservation Practice Job Sheet 430, ENV-1 Environmental Assessment, and Resource Inventory Checklist).

**STEP 3. PRACTICE DESIGN**

**I. PURPOSE**

The purpose of this step is to develop an irrigation pipeline design.

This practice will be designed in accordance with all federal, state and local laws and ordinances.

Irrigation Water Conveyance, Pipelines shall consist of an acceptable pipe design and layout to distribute the water in a uniform manner for the intended life of the practice.

Resource inventories, local conditions, and the intended use will need to be assessed for the proposed Irrigation Water Conveyance, Pipeline design and location.

An irrigation pipeline design will be developed with the client that meets the intended goals and objectives. All materials shall be of high quality. All appropriate job sheets, maps and reports must be developed with landowners input, review and concurrence (See Conservation Practice Standard, Specification, and Job Sheet 430).

**II. SITING**

The purpose of this step is to insure that the pipeline is properly located and that all involved fully understands where it is to be located.

**III. MATERIALS/EQUIPMENT**

The purpose of this item is to insure an understanding of the materials/equipment used to construct an irrigation pipeline. Appropriate standards, job sheets and expectations that include the types and number of each type of materials/equipment will need to be provided to the landowner and all those involved in the planning and construction of the irrigation pipeline.

## **STEP 4. PLANS AND SPECIFICATIONS**

### **PURPOSE**

The purpose of this step is to document and describe each component of the irrigation pipeline plan, which includes step by step instructions to be used while installing an irrigation pipeline.

This will include the documentation of all components described in Specification and / or Job Sheet 430. Additional reference material should be included as needed and appropriate.

The landowner must be provided with a complete irrigation pipeline design and plan in the form of a Conservation Plan, Plan Map, and NRCS Irrigation Water Conveyance, Pipeline Job Sheet 430 in order to document the irrigation pipeline design and location. Items not described in Job Sheet 430, that are essential for location and construction of the irrigation pipeline, will be added to the Specifications and / or Job Sheet.

## **STEP 5. MANAGEMENT, OPERATION, AND MAINTENANCE**

### **PURPOSE**

The purpose of this step is to assure that proper management, operation, and maintenance is completed on the Irrigation Water Conveyance, Pipeline (See NRCS Practice Standard and Specification 430).

This requires a familiarity with the design and correct operation of the installed irrigation pipeline in a proper and safe fashion. Periodic operations and maintenance schedules should be implemented.

These measures should be discussed with and understood by the landowner.

## **STEP 6. COMPLIANCE OR SPOT CHECKING**

### **I. PURPOSE**

The purpose of this step is to determine that all work has been completed to the standards required by the Natural Resources Conservation Service.

All completed NRCS forms should be collected from the landowner and submitted to the appropriate persons (See NRCS Practice Standard, Specification, and Job Sheet 430, NM-ENV-1 Environmental Assessment, and Resource Inventory Checklist).

### **II. DOCUMENTS**

Copies of all completed Job Sheets, Data Sheets, and Work sheets should be submitted to the Natural Resources Conservation Service representative within 10 working days of completion of the Irrigation Water Conveyance, Pipeline. This includes the Practice Requirements as outlined in Job Sheet 430 and any other job sheets that may be needed for this practice to meet the intended goals and objectives.