

**STATEMENT OF WORK**  
**Irrigation Pipeline (430)**  
**Kentucky**

**These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.**

## **DESIGN**

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### **Deliverables:**

1. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
  - a. Practice purpose(s) as identified in the conservation plan
  - b. List of required permits to be obtained by the client
  - c. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A – Engineering Activities Affecting Utilities, 503.00-503.6). Kentucky 811, Call 811 Before You Dig notification is client’s responsibility. See [www.kentucky811.org](http://www.kentucky811.org) for more information.
  - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Capacity
    - ii. Hydraulics and Appurtenance Design
    - iii. Trench and Backfill Requirements
    - iv. Materials
    - v. Vegetation
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
3. Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32).
4. Operation and Maintenance Plan
5. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)).
6. Design modifications during installation as required.

## **INSTALLATION**

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### **Deliverables**

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan as appropriate).
  - a. Actual materials used (Part 512, Subpart D Quality Assurance Activities, 512.33)
  - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meets design and permit requirements.

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**CHECK OUT**

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**Deliverables**

1. As-Built documentation.
  - a. Extent of practice units applied
  - b. Drawings
  - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03 (c) (1)).
3. Progress reporting.
4. Photo documentation recommended.

**SPECIAL REQUIREMENTS FOR COST SHARED PRACTICES**

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As noted in GM KY Supplement 450-407.12: Certifying Performance for Cost Sharing (June 2008)

- A. All practices will be located and identified using Global Positioning Systems (GPS) unit. (See GM KY 450-407.12 for additional guidance.)
- B. Practices receiving cost share assistance will be photo identified with no less than one before picture and no less than one after picture. (See GM KY 450-407.12 for additional guidance)

A quick link to the policy is: [ftp://ftp-fc.sc.egov.usda.gov/KY/GM\\_Supplement\\_450.pdf](ftp://ftp-fc.sc.egov.usda.gov/KY/GM_Supplement_450.pdf)

**SUPPORTING DATA AND DOCUMENTATION**

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**Field and Design Data**

Record in a field survey book, NRCS-ENG-28, ENG-29, or other appropriate engineering forms or media. The following is a list of the minimum required design data:

1. Location of the pipeline.
2. Type, size, pressure rating, and quantity.
3. Size and location of risers, flow control valves, check valves, pressure relief, and air release valves.
4. Dimensions and location of thrust blocks.
5. Minimum cover over pipeline for each type and diameter of pipe.
6. Where required, provisions for draining the pipeline.
7. Location of underground utilities.
8. Topographic survey as needed for the location and elevation of critical system components and appurtenances.
9. Show job class on the plan.
10. References to components supplied by others (pumps, etc.).
11. Structural details of all components with dimensions and special requirements noted.
12. Seeding, fertilizing, and mulching requirements.
13. Quantities
14. Approval signature of someone with proper approval authority.
15. Written operation and maintenance plan.

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**Construction Check Data/As-Built**

Installation and construction check notes are to be recorded in sufficient detail to show that the practice meets this standard and applicable specification.

Minimum requirements are:

1. Documentation of site visits on CPA-6. The documentation shall include the date, who performed the inspection, specifics as to what was inspected, all alternatives discussed, and decisions made and by whom.
2. Measurements to show dimensions and elevations of the components, as appropriate, in red on the "as-built" plans.
3. The as-built drawings shall include name of the installer, manufacturer, and date of completion of each system and/or component. The as-built records shall also include any applicable "Statement of Conformance" presented or certified by suppliers of structures or equipment. The design folder, as-built drawings, certifications and specifications shall be filed in the case file.
4. Measurements and computations for quantities will be recorded and filed to the extent that they are required to determine the number of practice units performed or as requested by the land user.
5. Provide a statement on seeding.
6. Sign and date "as-built" plan and notes by someone with proper job approval authority. Include statement that the practice meets or exceeds plans or specifications.

**REFERENCES**

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- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Irrigation Pipeline, 430
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook