

## STATEMENT OF WORK Irrigation Pipeline (430) West Virginia

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.
- 2) Practice purpose(s) as identified in the conservation plan
- 3) List of required permits to be obtained by the client and that may be required from the following agencies:
  - i) **U.S. Army Corps of Engineers (USACE)**
  - ii) **WV Department of Natural Resources (WVDNR)**
  - iii) **WV Department of Environmental Protection (WVDEP).**
  - iv) **WV Public Lands Corporation (WVPLC)**
  - v) **US Fish and Wildlife Service (USFWS)**
  - vi) **All contemplated projects and plans involving changes or alterations in any high quality stream and/or as defined in the current publication of "West Virginia High Quality Streams" shall be submitted to the Division of Natural Resources for review.**
  - vii) **Work in or directly adjacent to "Waters of Special Concern" will require individual approval from WVDEP and/or WVDNR. Work in waters where there is a present or possible presence of endangered/threatened species require notification and collaboration with the USFWS.**
  - viii) **Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A- Engineering Activities Affecting Utilities 503.00 through 503.06 and 210-VI-EFH, Amendment WV-45, Nov. 1996- WV5-23 Engineering Field Handbook) and all engineering activities affecting utilities. This includes contacting and documenting MISS UTILITY 1-800-248-4848 according to West Virginia Chapter 24-C, Underground Facility Damage Prevention act. The law makes it a requirement to notify the state of West Virginia before any excavation or demolition activities are done.**
- 4) Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06)
  - a. 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
- 5) 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.
- 6) 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).
- 7) Operation and Maintenance Plan
- 8) **Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03, 505.03 (a) (3,4), 210-VI-(EFH) WV5 amendment 45 ("Preparation of Engineering Plans" – Design and Construction Support Data for Conservation Practices).**
- 9) Design modifications during installation as required.

### INSTALLATION

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#### Deliverables

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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.

*Note: Provide written documentation of any modification of the approved design. Certify that the modification meets practice standard on appropriate NRCS form and/or letter of certification as applicable. At a minimum, documentation will include quantities and amounts. The location of the applied practice will be identified on the conservation plan map for non-structural practices.*

## 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.

*Note: Meet with client to review practice operation and maintenance. Certify the conservation practice has been installed according to practice design and specifications using a letter of certification or appropriate NRCS form.*

## 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
- **210-VI-EFH Amend. 45, WV5 Preparation of Engineering Plans**
- **210-V-NEM Part 505 – Non-NRCS Engineering Services**
- **WV Engineering Field Handbook**
- **EPA Technology Transfer Process Design Manual for Land Treatment of Municipal Wastewater**
- **Penn State "The Agronomy Guide 1997-1998"**
- **WV Engineering Field Handbook NRCS National Environmental Compliance Handbook**
- **NRCS Cultural Resources Handbook**
- **NRCS Soil Data Mart Information, Engineering Properties, Water Features, Flood Duration, Hydrologic Soil Group, Risk of Corrosion –concrete, Water Table Depth, Physical Soil Properties etc.:** <http://soildatamart.nrcs.usda.gov/>

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