

**STATEMENT OF WORK
IRRIGATION SYSTEM, SURFACE AND SUBSURFACE (443)
Texas**

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

for construction on

GENERAL REQUIREMENTS

1. All engineering documents, drawings, certifications and designs shall be sealed by a Professional Engineer licensed to practice engineering in Texas.
2. All drawings will be formatted for full size plots (22"x34") or when readable half size - 11" x 17" are acceptable.
3. All documentation shall be generated in *.doc, *.pdf, *.dwg, or .xls format.
4. Two Copies of all documentation shall be furnished, one for the landowner, one for USDA-NRCS records
5. All USDA-NRCS documentation shall be furnished to the local (county) NRCS Field Office.
6. All electronic files will be placed on CD/DVD media

Note: Site-Specific Deliverable may be added as appropriate by the State Conservation Engineer.

DESIGN

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 through 503.06). Completion of TX ENG 80A.
 - d. List of facilitating/component practices
 - e. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. System Capacity
 - ii. Delivery/application method
 - iii. Depth of Application, Rate, Frequency, and Uniformity
 - iv. Erosion/seepage control
 - v. Tailwater control
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. Operation and Maintenance Plan
4. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.3).

**STATEMENT OF WORK
IRRIGATION SYSTEM, SURFACE AND SUBSURFACE (443)
Texas**

5. Design modifications during installation as required.

Note: Site-Specific Deliverable may be added as appropriate by the State Conservation Engineer.

INSTALLATION

Deliverables

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Completed TX-EN-80A and TX-EN-80B if any excavation occurs.
4. Staking and layout according to plans and specifications including applicable layout notes.
5. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used (Part 512, Subpart D Quality Assurance Activities, 512.33)
 - b. Inspection records
6. Facilitate and implement required design modifications with client and original designer
7. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
8. Certification that the installation process and materials meets design and permit requirements.

Note: Site-Specific Deliverable may be added as appropriate by the State Conservation Engineer.

CHECK OUT

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, 505.3).
3. Progress reporting.

Note: Site-Specific Deliverable may be added as appropriate by the State Conservation Engineer.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Irrigation System, Surface and Subsurface, 443
- NRCS National Engineering Handbook
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook