

STATEMENT OF WORK
Irrigation Water Management (449)
Wyoming

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

Items that are marked **(TSP or Non-NRCS Engineer)** need to be completed only if design is provided by a TSP or Non-NRCS Engineer. Items that are marked **(NRCS Employee)** need to be completed only if design is provided by an NRCS Employee. All other items are required by all designers.

DESIGN

Deliverables and Documentation Requirements:

1. Design documents that demonstrate criteria in NRCS practice standard have been met and are compatible with 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. List of facilitating practices
 - d. Verify with the Field Office conservation planner that all concerns under the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA) have been adequately addressed.
 - e. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to:
 - i. Volume of water (per irrigation & per season)
 - ii. Frequency of irrigation
 - iii. Application rate
 - iv. Environmental considerations
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 including but not limited to:
 - a. An irrigation system layout map showing the main pipeline(s), irrigated area, soil moisture sensor locations and depths (if used), and soils.
 - b. The methods used to measure or determine the flow rate or volume of the irrigation applications.
 - c. Documentation of the scientific method used for scheduling the timing and amount of irrigation applications.
 - d. The seasonal or annual planned water application volumes by crop.
 - e. The management allowable depletion (MAD) and depth of the managed crop root zone for each crop.
 - f. An estimate of the irrigation system distribution uniformity, based on testing, evaluation, or observation.
 - g. The specific soil moisture monitoring objectives, if soil moisture sensors are used. Indicate how data from the soil moisture sensor locations and depths will be considered to make field-wide irrigation decisions.
 - h. Information on how to recognize irrigation induced erosion and how to mitigate it.
 - i. Recordkeeping documents for the irrigator to use during operation and management.
 - j. Cooperator's signature of review and acceptance to apply the irrigation water management according to the plans and specifications.
3. Operation and maintenance plan.
4. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Part 505 – Non-NRCS Engineering Services, Subpart A – Introduction, - 505.0 and 505.3). **(TSP or Non-NRCS Engineer)**
5. Engineering job classification is shown and proper engineering approval is obtained. **(NRCS Employee)**
6. Design modifications during installation as required.

INSTALLATION

Deliverables and Documentation Requirements

1. Pre-installation conference with client.
2. Verification that client has obtained required permits.
3. Installation guidance as needed.
4. Facilitate and implement required design modifications with client and original designer.
5. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
6. Certification that the installation process and materials meet design and permit requirements.

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CHECK OUT

Deliverables and Documentation Requirements

1. Records of installation.
 - a. Extent of practice units applied
 - b. Actual amount of water applied during the growing season
 - c. Each irrigation event, including the amount or depth of water applied and the date of application
 - d. The data from the method(s) used for determining the timing and amount of the irrigation event
2. Certification that the application meets NRCS standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A – Introduction, 505.3). **(TSP or Non-NRCS Engineer)**
3. Statement of compliance signed by NRCS personnel with applicable job approval authority that the work meets the plans and specifications. **(NRCS Employee)**
4. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide, Irrigation Water Management, 449
- NRCS National Engineering Handbook, part 652, National Irrigation Guide
- NRCS National Engineering Manual
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook