

**STATEMENT OF WORK
WATER WELL (642)
SOUTH DAKOTA
CONTACT: JAY COBB (605) 352-1260**

These deliverables apply to this individual practice. For deliverables for other planned practices, refer to those specific SOWs.

DESIGN

Deliverables:

1. Pre-design conference with client and Natural Resources Conservation Service (NRCS) representative.
2. Design documentation that demonstrates that the criteria in the NRCS conservation practice standard have been met and are compatible with other planned and applied practices. Include:
 - a. Identification of client needs, documentation of discussion with client, and a recommended method of resolution.
 - b. Practice purpose(s) as identified in the conservation plan.
 - c. Location of planned practice installation shown on a farm or ranch plan map.
 - d. List of required permits to be obtained by the client.
 - e. Impacts on adjacent properties and structures.
 - f. Certification of compliance with NRCS national and state utility safety policy and Safety Considerations (NEM Part 503 - Safety, Subpart A , 503.0 through 503.12).
 - g. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to:
 - i. Hydrogeology
 - ii. Wellhead Location and Protection
 - iii. Materials
 - iv. Environmental Considerations (e.g. water quality)
3. Sufficient copies of written plans and specifications shall be provided to the client, including sketches and drawings, which adequately describe the requirements to install the practice and to obtain necessary permits. Plans and specifications shall include:
 - a. Location map
 - b. Casing diameter
 - c. Casing thickness (metal)
 - d. Applicable ASTM and rating if plastic pipe is used
 - e. Garvel pack details
 - f. Records indicating NRCS obligations regarding Federal and State regulations have been met
4. Specific detailed requirements for water well design and the development of construction plans and specifications are outlined in the SD Engineering and Spot-Checking Manual (SDEDSM), under the Water Well Practice Requirements. Where specific forms or job sheets are mentioned in the SDEDSM, an equivalent may be substituted. The guidance contained in this manual shall be considered as the minimum acceptable for this practice. (Examples: Plans, specifications, construction notes, drillers logs, etc.)
5. Design Report as appropriate (NEM Part 511 - Design, Subpart B - Documentation, 511.10 and 511.11). (Example: Design Report)
6. Inspection Plan or Quality Assurance Plan as appropriate (NEM Part 512 - Construction, Subpart D - Quality Assurance Activities, 512.30 through 512.33). (Example: Inspection Plan)
7. Operation and Maintenance (O&M) Plan. (Example: O&M Plan)
8. Certification that the design meets NRCS practice standards criteria and construction specifications and is in compliance with applicable laws and regulations (NEM Part 505 - Non-NRCS Engineering Services, Subpart A - Introduction, 505.0 and 505.3). (Example: Certification statement indicating the project meets NRCS standards; a letter from SD DENR approving plans and specification for the project under the Water Rights Permit; documentation of approval for construction from county zoning authority; etc.)
9. Develop and sign an engineer's cost estimate based on project quantities. Provide revised cost estimates in the practices, practice units, and extents in the event of changes to these values or completion of the final design. (Example: SD NRCS Practice Payment Spreadsheet for appropriate year.)
10. Provide an anticipated installation schedule. (Example: Construction Schedule.)

11. At any point any point when the practices or practice extents change for the project, the Technical Service Provider (TSP) must immediately provide the NRCS representative with a revised Environmental Quality Incentives Program (EQIP) Payment Unit and Technical Service Payment Unit Worksheet prior to any construction activity associated with the change. The NRCS representative will promptly modify the contract with these new practices/practice extents if the change is within policy and funding is available. (Example: Provide a revised SD NRCS Practice Payment Spreadsheet prior to any construction changes being constructed.)

INSTALLATION

Deliverables

1. Conduct a preconstruction meeting with client, contractor, and NRCS representative. Complete and sign SD NRCS Preconstruction Meeting Checklist. (Example: SD NRCS Preconstruction Meeting Checklist.)
2. Verification that client has obtained required permits. (Examples: Letter from SD DENR approving plans and specifications for the project under the Water Rights Permit, documentation of approval for construction from county zoning authority, etc.)
3. Staking and layout according to plans and specifications including applicable layout notes. (Example: Constuction staking and layout survey notes and plans.)
4. Installation inspection (according to installation plan as appropriate):
 - a. Actual materials used (NEM Part 512 - Construction, Subpart C – Evaluation of Construction Materials, 512.20 through 512.23; Subpart D - Quality Assurance Activities, 512.33).
 - b. Inspection records
 - c. Document compliance with Quality Assurance Plan
 - d. Log of hole
 - e. Quantity and quality of materials
 - f. Capacity of well and maximum drawdown
 - g. Type of pumping equipment installed
 - h. Gravel pack details
5. Specific detailed requirements for water well installation are outlined in the SDEDSM, under the Water Well Practice Requirements. The guidance contained within this manual shall be considered as the minimum acceptable for this practice.
6. At any point when the practices or practice extents change for the new project, the TSP must immediately provide the NRCS representative with a revised EQIP Payment Unit and Technical Service Payment Unit Worksheet prior to any construction activity associated with the change. The NRCS representative will promptly modify the contract with these new practices/practice extents if the change is within policy and funding is available. (Example: Provide a revised SD NRCS Practice Payment Spreadsheet prior to any construction changes being constructed.)
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.

CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied
 - b. As-built or "Red-line" drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52)
 - c. State submitted Driller's Log
 - d. Final quantities
 - e. Final EQIP Payment Unit and Technical Service Payment Unit Worksheet
2. Specific detailed requirements for water well checkout design and the development on construction plans and specifications are outlined in the SDEDSM, under the Water Well Practice Requirements. Where specific forms or job sheets are mentioned in the SDEDSM, an equivalent may be substituted. The guidance contained within this manual shall be considered as the minimum acceptable for this practice.
3. Certification that the installation and materials meets NRCS standards and specifications (signed Warranty of Technical Services Provided Form) and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering

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- Services, Subpart A - Introduction, 505.3).
4. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Water Well, 642.
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- SDEDCM