

**STATEMENT OF WORK**  
**Livestock Pipeline (516)**  
**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**

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### **Deliverables and Documentation Requirements:**

1. Design surveys and investigations
  - a. Profile along centerline of pipeline.
  - b. Detailed topography at structure locations.
  - c. Pertinent water surface elevations, well elevation and depth to water.
  - d. Soils investigations.
2. 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. Impacts on adjacent properties and structures.
  - 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. Certification of compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.0 through 503.6).
  - f. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Capacity
    - ii. Hydraulics
    - iii. Materials
    - iv. Quantity computations
    - v. Climatic Considerations (e.g. freezing)
    - vi. Vegetation (See practice standard 342-Critical Area Planting)
3. 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. Location map with legal description and north arrow.
  - b. Plan view of the layout of the pipeline showing water source locations and watering facility locations as needed. (Location map and plan view may be combined.)
  - c. Profile showing original ground and pipeline grade(s).
  - d. Size, material, and class or pressure rating of pipe.
  - e. Pipe joint requirements.
  - f. Location, size, and details for all appurtenances.
  - g. Depth of cover and backfill requirements.
  - h. Table of quantities
  - i. Site specific construction specifications that describe in writing the installation of the pipeline. Include requirements for pressure testing of the pipeline.
  - j. Vegetative establishment requirements.
  - k. Cooperator's signature of review and acceptance to construct the livestock pipeline according to the plans and specifications.
4. Design Report as appropriate (NEM Part 511, Subpart B Documentation, 511.10 and 511.11).
5. Quality Assurance Plan (NEM Part 512 – Construction, Subpart D – Quality Assurance Activities, 512.30 through 512.33).
6. Operation and Maintenance Plan
7. 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)**
8. Engineering job classification is shown and proper engineering approval is obtained. **(NRCS Employee)**
9. Design modifications during installation as required.

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## **INSTALLATION**

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### **Deliverables and Documentation Requirements**

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.
  - a. Centerline alignment
  - b. Location of appurtenances
  - c. Verify with the Field Office conservation planner that the location of the staked practice is within the original scope of the practice and is still in compliance with the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA).
4. Installation inspection (according to inspection plan as appropriate).
  - a. Actual materials used. (NEM Part 512, - Construction, Subpart C – Evaluation of Construction Materials, 512.20 through 512.33; Subpart D - Quality Assurance Activities, 512.33)
  - b. Inspection records
  - c. Pipeline profile and depth of cover over pipe.
  - d. Pipe length, size, type, and class or pressure rating.
  - e. Location, size, and type of appurtenances for pipeline.
  - f. Results of pressure test(s) if required.
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.

## **CHECK OUT**

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### **Deliverables and Documentation Requirements**

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 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**

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- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Pipeline, 516
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook