

**ILLINOIS STATEMENT OF WORK****UNDERGROUND OUTLET (620)**

The deliverables listed below 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 documents that demonstrate criteria in 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. Compliance with NRCS national and state utility safety policy (NEM part 503-Safety, Section 503.00 through 503.06)
  - d. NRCS Engineering Job Class as identified on IL-ENG-35.
  - e. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Design Survey
      1. Field survey notes shall conform to NEM Part 540 and present legible, clear and concise data. Include a hard copy of the raw data and reduced survey if using an electronic data collector.
      2. Include temporary benchmark elevations, description, and location.
      3. Include profile of ground surface from inlet to outlet, along with elevations and dimensions of any existing structures or tile lines that will be affected by the proposed underground outlet.
    - ii. Capacity requirements, including hydrologic data, runoff and sediment storage data, and drawdown time.
    - iii. Hydraulic calculations to show that design capacity and practice standard requirements are met
    - iv. Materials, including type and size of inlet and outlet, and material strength relative to maximum fill height over top of conduit.
2. Plans and specifications including sketches and drawings shall be provided to the client that adequately describe the requirements to install the practice and to obtain the necessary permits, including but not limited to
  - a. Location map with legal description.
  - b. Plan view drawing showing locations and stations of the practice to be constructed.
  - c. Profile of underground outlet system showing elevations and grades.
  - d. Detail drawings for appurtenances, including outlet sections and relief wells.
  - e. Detail drawings or specifications for connections of the underground outlet to any existing structures or tile lines.
  - f. Table of quantities and quality requirements, including appurtenances.
  - g. Construction and material specifications.
  - h. Construction notes as needed to clarify components and provide directions for installation.
  - i. Utility safety statement requiring notification of the Illinois One-Call System prior to construction.
  - j. Additional notes as necessary to identify avoidance and protection areas and boundaries associated with cultural resources, threatened or endangered species, or other resources needing temporary protection during installation.
  - k. Signature/initials and date for design and design check. Design check to be completed by an individual other than the designer.
3. Operation and maintenance plan developed in accordance with the requirements of IL NRCS conservation practice standard 620, Underground Outlet.
4. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03(b) (2)).
5. Design modifications during installation as required

## ILLINOIS STATEMENT OF WORK

### UNDERGROUND OUTLET (620)

#### INSTALLATION

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##### Deliverables

1. Preconstruction conference with client and contractor (NEM Part 512, Subpart B, IL 512.13(d)).
2. Verification that client has obtained required permits
3. Staking and layout according to plans and specifications including applicable layout notes
4. Installation inspection
  - a. Actual materials used
  - 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 (NEM Subpart A, 505.03(c) (1)).

#### CHECK OUT

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##### Deliverables

1. As-built documentation
  - a. Extent of practice units applied
  - b. As-built plan is required when a significant change in design occurs during construction or when the job is designated Class V or higher. Identify "As Built" on plan. Superimpose changes on the as-built plan using a different color or otherwise clearly differentiating the as-built dimensions.
  - c. For practices not requiring an as-built plan, survey notes documenting critical dimensions, elevations, and materials are sufficient.
  - d. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits
3. Progress reporting

#### REFERENCES

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- Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Underground Outlet, 620.
- National Engineering Manual (NEM)
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook