

**ILLINOIS STATEMENT OF WORK
Pond (378)**

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

DESIGN

Deliverables:

1. Provide design documentation demonstrating compliance with the criteria in NRCS practice standard and compatibility 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. Assure compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
 - e. Provide practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Geology and Soil Mechanics (NEM Subpart 531a)
 - ii. Hydrology, including but not limited to:
 1. Drainage area, runoff curve number, watershed slope and hydraulic length
 2. Runoff hydrologic analysis
 3. Design storm requirements
 - iii. Sediment delivery
 - iv. Reservoir data
 1. Sediment volume
 2. Stage-storage and flood routing
 3. Principal and auxiliary spillway hydraulics
 4. Working storage volume required for each design purpose (example – irrigation, flood prevention, etc)
 - v. Structural including hazard class as appropriate
 - vi. Design Survey
 1. Field survey notes must 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, descriptions, and locations.
 - vii. Vegetation
2. Provide written plans and specifications, including sketches and drawings, 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
 - b. Plan view drawing, to scale, showing the location of the practice to be constructed, relevant benchmark elevations and descriptions, borrow and spoil areas.
 - c. Profiles and cross sections of embankment and auxiliary spillway, including relevant constructed elevations (example – top of dam, auxiliary spillway, pipe inlet, etc.)
 - d. Detail drawings of structure and appurtenances, including safety features
 - e. Construction and material specifications, including vegetative establishment and/or mulching
 - f. Construction notes as needed to clarify components and provide directions for installation
 - g. Utility safety statement requiring notification of the Illinois One-Call System prior to construction.
 - h. 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.
 - i. Signature/initials and date for design and design check. Design check to be completed by an individual other than the designer.
3. Provide Design Report and Quality Assurance Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512-Construction, Subpart D-Quality Assurance Activities, 512.30 through 512.32).
4. Provide Operation and Maintenance Plan developed in accordance with the requirements of IL NRCS Conservation Practice Standard 378, Pond.

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5. Provide certification that the design meets practice standard criteria and complies with applicable laws and regulations (NEM Part 501- Authorizations, Subpart A-Review and Approval, 501.3).
6. Provide design modifications during installation as required.

INSTALLATION

Deliverables

1. Preconstruction conference with client and contractor (NEM Part 512, Subpart B, IL 512.13(d)).
2. Verify that client has obtained required permits.
3. Stake and layout the practice according to plans and specifications, including applicable layout notes.
4. Provide quality assurance of installation (according to Quality Assurance plan as appropriate).
 - a. Actual materials used (Part 512, Subchapter D Quality Assurance Activities, 512.33)
 - b. Quality Assurance 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.

CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied
 - b. Documentation of materials installed (i.e. concrete tickets, seed tags, etc.)
 - c. 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.
 - d. For practices not requiring an as-built plan, survey notes or checkout sheets documenting critical dimensions, elevations, and materials are sufficient.
 - e. Final quantities
2. Provide certification that the installation meets NRCS standards and specifications and complies with permits (NEM Part 501-Authorizations, Subpart A-Review and Approval, 501.3).
3. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Pond, 378.
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook