

**STATEMENT OF WORK  
Wetland Creation (658)  
Kentucky**

**These deliverables 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 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. 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. List of facilitating practices
  - f. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Wetland functional assessment considering targeted wetland functions.
    - ii. Hydrology/Hydraulics.
    - iii. Structural including hazard class as appropriate
    - iv. Vegetation
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.
3. Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32).
4. Operation and Maintenance Plan
5. Certifications that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.3).
6. Design modifications during installation as required.

**Note:** Design of practice will be in compliance with practice standard and applicable criteria for the appropriate purpose(s). Practice specification will include the information listed in the "Plans and Specifications" and "Operation and Maintenance" section of the conservation practice standard. The design will document the client's decisions using narratives and/or jobsheets.

## **INSTALLATION**

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### **Deliverables**

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.
4. Installation inspection (according to inspection plan as appropriate).
  - 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.

**Note:** Provide written documentation of any modification of the approved design. Certify that the modification meets practice standard on appropriate NRCS form and/or letter of certification as applicable. At a minimum, documentation will include quantities and amounts. The location of the applied practice will be identified on the conservation plan map for non-structural practices.

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**CHECK OUT****Deliverables**

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 Subpart A, 505.3).
3. Progress reporting.

**Note:** Meet with client to review practice operation and maintenance. Certify the conservation practice has been installed according to practice design and specifications using a letter of certification or appropriate NRCS form.

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**SPECIAL REQUIREMENTS FOR COST SHARED PRACTICES**

As noted in GM KY Supplement 450-407.12: Certifying Performance for Cost Sharing (June 2008)

- A. All practices will be located and identified using Global Positioning Systems (GPS) unit. (See GM KY 450-407.12 for additional guidance.)
- B. Practices receiving cost share assistance will be photo identified with no less than one before picture and no less than one after picture. (See GM KY 450-407.12 for additional guidance)

A quick link to the policy is: [ftp://ftp-fc.sc.egov.usda.gov/KY/GM\\_Supplement\\_450.pdf](ftp://ftp-fc.sc.egov.usda.gov/KY/GM_Supplement_450.pdf).

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**REFERENCES**

- NRCS Engineering Field Handbook (EFH), Part 210, Chapter 13, Wetland Restoration , Enhancements, or Creation
- NRCS National Engineering Manual (NEM)
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- NRCS National Biology Manual
- NRCS National Biology Handbook
- National Food Security Act Manual
- NRCS Field Office Technical Guide (FOTG), Section IV, Conservation Practice Standard Wetland Creation-658
- Executive Order 13112, Invasive Species, February 3, 1999. Federal Register: vol.64, no.25. Feb. 8, 1999. [http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=1999\\_register&docid=99-3184-filed.pdf](http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=1999_register&docid=99-3184-filed.pdf)
- Galatowitsch, Susan, et al, 1994. Restoring Prairie Wetlands: an ecological approach. Iowa State University Press, Ames IA. 246 pp.
- Hurt, G.W. and V.W. Carlisle, 2001. Delineating Hydric Soils, in Wetland Soils – Genesis, Hydrology, Landscapes and Classification. Edited by J.L. Richardson and M.J Vepraskas. CRC Press, Boca Raton, FL pp. 183 – 206.
- Kingsbury, Bruce & Joanne Gibson, 2002. Habitat Management Guidelines for Amphibians and Reptiles of the Midwest. Partners in Amphibian & Reptile Conservation, Ft Wayne IN, 57 pp.
- Maschhoff, Justin T & James H. Dooley, 2001. Functional Requirements and Design Parameters for Restocking Coarse Woody Features in Restored Wetlands, ASAE Meeting Presentation, Paper No: 012059.
- USDA, NRCS. 2002. Field Indicators of Hydric Soils in the U.S., Version 5.0. G.W. Hurt, P.M. Whited and R.F. Pringle (eds.). USDA, NRCS in cooperation with the National Technical Committee for Hydric Soils, Fort Worth, TX. [ftp://ftp-fc.sc.egov.usda.gov/NSSC/Hydric\\_Soils/FieldIndicators\\_v6\\_0.pdf](ftp://ftp-fc.sc.egov.usda.gov/NSSC/Hydric_Soils/FieldIndicators_v6_0.pdf)
- USDA, NRCS. Wetland Restoration, Enhancement or Creation. Engineering Field Handbook Chapter 13, Part 650. 121 pp. <ftp://ftp-fc.sc.egov.usda.gov/WLI/wre&m.pdf>

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- USDA-NRCS. 2000. Indiana Biology Technical Note 1. <http://www.nrcs.usda.gov/Programs/WRP/pdfs/In-final.pdf>
- USDA, NRCS, 2003. ECS 190-15 Wetland Restoration, Enhancement, Management & Monitoring. 425 pp. <ftp://ftp-fc.sc.egov.usda.gov/WLI/wre&m.pdf>
- Vepraskas, M.J., and S. W. Sprecher (eds), 1997. Aquic Conditions and Hydric Soils: The Problem Soils. Soil Science Society of America Special Publication Number 50. SSSA, Inc. Madison, WI.