

**STATEMENT OF WORK**  
**Channel Bed Stabilization (584)**  
**Tennessee**

**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 with assistance from NRCS in completing the appropriate permit applications.
  - c. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06)
  - d. 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/Hydraulics
    - iii. Structural
    - iv. Environmental Considerations
    - v. Vegetation
    - vi. Safety Considerations (NEM Part 503-Safety, Subpart A, 503.10 through 503.12)
    - vii. Evaluation and completion of NRCS-CPA-52, Environmental Evaluation Worksheet.
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.
  - a. Drawings that show the site location, plan view, all section views that are needed, and other NRCS approved drawings approved by NRCS engineer
  - b. Material and Construction Specifications
  - c. Lengths and widths of various structures
  - d. Grade or percent slope of the approach, body, and outlet section slopes of stabilization structures
  - e. Grade or percent slope of stream channel upstream and downstream of planned structure
  - f. Planned elevations of excavated subgrade and surface elevations of structures at entrance sections, outlet sections, and other key locations in the profile of the structure
  - g. Type, dimensions, and locations of geotextile fabric
  - h. Types, dimensions, and locations of other bedding materials
  - i. Method of securing the ends of the geotextile
  - j. Type and size of anchoring pins used to secure the geotextile fabric to the soil surface of the crossing
  - k. Gradation, type, and quantity of rock riprap, sand bedding, gravel bedding, or other stabilization materials
  - l. Location of all excess excavated spoil material
  - m. Location and extent of fencing required
  - n. Location and quantities of seed, lime, fertilizer, and mulch needed to vegetate disturbed areas
  - o. Method of surface water diversion during construction
  - p. Location of silt fence and any other required erosion control methods
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. Certification that the design meets practice standard criteria and complies with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)), including all permit requirements, Threatened and Endangered Species requirement, construction date restrictions, and Cultural Resource requirements (NEM Subpart A, 505.03(b)(2)).
6. Design modifications during installation as required.

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**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 (Part 512, Subchapter D Quality Assurance Activities, 512.33)
  - 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.

**CHECK OUT**

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**Deliverables:**

1. As-Built documentation.
  - a. Extent of practice units applied
  - b. Drawings
  - c. Final quantities
  - d. Slope of entrance sections, body of rock chutes, and outlet sections
  - e. Profile of stream channel to show structure and streambed are on the correct grade
  - f. Type and quantity of geotextile used
  - g. Gradation, quantity and type of rock riprap, sand bedding, gravel beddings, and other materials that may be needed (if required)
  - h. Adequacy of vegetation
  - i. Other pertinent data
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03 (c) (1)). Signature and date by person with adequate NRCS Engineering Approval Authority making certification.
3. Progress reporting.

**REFERENCES**

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- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Channel Bed Stabilization, 584.
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook.
- NRCS Cultural Resources Handbook.