

STATEMENT OF WORK
Streambank and Shoreline Protection (580)
Kansas
June 2012

State contact: State Conservation Engineer, 785-823-4534

These deliverables apply to this individual practice. For other planned practice deliverables, refer to those specific statements of work.

DESIGN

Deliverables

1. Survey notes which show that a thorough and detailed site survey was completed.
 - a. Survey notes shall be in accordance with Kansas Natural Resources Conservation Service (NRCS) procedures and/or standard industry practice.
 - b. If survey equipment with automatic/electronic data collection devices is used, a print out of the data and a disk with the electronic files shall be included in the file.
2. A plot of the survey data with the scale shown as a bar scale shall be maintained in the file.
3. Design documentation that will demonstrate that the criteria in the NRCS practice standard has been met and is 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 ([National Engineering Manual \[NEM\] Sections 503.0 through 503.6](#) and [NEM Part KS503](#))
 - e. List of facilitating practices
 - f. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to the following:
 - i. Geology/soil mechanics—Stream classification (Schumm channel evolution model or Rosgen stream channel class), sediment load and bed materials
 - ii. Hydrology/hydraulics—Channel and valley alignment, grade and cross-sections, bankfull discharge and velocities
 - iii. Structural
 - iv. Vegetation/soil bioengineering
4. Written plans and specifications (including sketches and drawings) shall be provided to the client that adequately describe the requirements to install the practice and obtain necessary permits.
5. Itemized Engineer's Cost Estimate.
6. Design report as appropriate ([NEM Section 511.11](#)).
7. Develop a "Construction Observation Plan" that details quality assurance activities.
8. Operation and maintenance plan.
9. Certification that the design meets practice standard criteria and complies with applicable laws and regulations ([NEM Section 505.3B\(2\)](#)).
10. Design modifications during installation as required.
11. If enrolled in a conservation program, this practice must meet all conditions and requirements of program enrollment that may exceed the practice standard.

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INSTALLATION

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 and regulations and NRCS policies during installation.
7. Certification that the installation process and materials meet design and permit requirements.

CHECKOUT

Deliverables

1. As-built documentation.
 - a. Extent of practice units applied (use the [Technical Service Provider \(TSP\) Performance Worksheet](#) or equivalent)
 - b. Drawings—Plan and elevation views of protection measures
 - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits ([NEM Section 505.3C\(1\)](#)).

REFERENCES

- NRCS electronic Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard 580, Streambank and Shoreline Protection
- NRCS National Engineering Manual (NEM)
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook