

**STATEMENT OF WORK**

Terrace (600)

Iowa

**These deliverables are the minimum requirements that apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.**

**DESIGN**

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**Deliverables:**

1. Survey notes which show that a thorough and detailed site survey was completed.
  - a. Survey notes shall be in accordance with NRCS Technical Release 62, Engineering Field Handbook, Chapter 1 and/or standard industry practice.
    - i. Channel profile.
    - ii. Slope shots.
    - iii. Cross sections.
    - iv. Tile intake location.
    - v. Tile grade.
  - b. If survey equipment with automatic / electronic data collection devices is used, a print out of the data shall be included in the file.
  - c. Rod Readings or Elevations shall be referenced to a bench mark. A temporary bench mark is acceptable. Examples of a TBM could be a nail in a post, the top of a post, or a wooden hub in the ground.
2. 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. NEPA requirements have been met and documented on the IA CPA52 (i.e. cultural resources and T&E species).
  - c. Documentation that adequate land rights have been obtained if needed.
  - d. List of required permits to be obtained by the client.
  - e. A note on the drawings stating that the contractor is responsible for calling Iowa One Call at 1-800-292-8989 at least 48 hours prior to beginning any excavation work.
  - f. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Hydrology - drainage area, soils, RCN, land slope, runoff calculations (EFH, Chapter 2).
    - ii. Soil Loss.
    - iii. Interval/Spacing/Type of Terrace.
    - iv. Capacity – Sediment and runoff storage (Iowa Terrace computer program).
    - v. Hydraulics – intake capacity, tile capacity, need for flow restrictor such as orifice plates (EFH Chapter 8). For tile design and documentation, refer to the Subsurface Drain (606) Standard and Statement of Work.
    - vi. Outlet Capacity and Stability.
    - vii. Erosion Control/Seeding Plan.
3. 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. Standard Drawing 652 – Terrace Plan (includes construction specifications).
  - b. Terrace cut sheets (ie. Iowa Terrace computer program printout).
  - c. Standard Drawing 854 – Underground Outlet (includes construction specifications).
  - d. IA-5 Pollution Control Construction Specification is to be included on all projects.
  - e. Bill of Materials and Cost Estimate.
4. Operation and maintenance plan.
5. All design documentation is shown as checked.
6. Engineering job class is shown on the drawings.

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7. Certification that the design meets practice standard criteria and complies with applicable laws and regulations (NEM Subpart A, 505.03) or approved by an employee with the appropriate delegated engineering job approval authority (NEM Subpart A, 501).
8. Design modifications required during installation are properly documented.

**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 documented in the case file.
  - 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).

**CHECK OUT**

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**Deliverables**

1. Survey for Checkout.
  - a. Channel and ridge profile.
  - b. Cross section at storage area.
  - c. Reference to the bench mark.
2. As-built documentation (450-GM, IA407).
  - a. Extent of practice units applied.
    - i. Length and location of tile.
    - ii. Intake diameter, holes per foot, and height.
    - iii. Orifice plates or offset flow restrictor.
    - iv. Lineal feet of terrace constructed.
  - b. Drawings.
  - c. Final quantities.
3. Certification that the practice meets NRCS standards and specifications and is in compliance with permits.
4. Progress reporting.

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**REFERENCES**

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- Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Terrace, 600.
- National Engineering Manual
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- General Manual
- Engineering Field Handbook
- Technical Release 62

**STATE CONTACT**

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