

ILLINOIS STATEMENT OF WORK
Terrace (600)

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

DESIGN

Deliverables:

1. 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. List of required permits to be obtained by the client
 - c. Compliance with NRCS national and state utility safety policy (NEM part 503-Safety, Section 503.00 through 503.22)
 - d. List of facilitating/component practices (example – Underground Outlet, 620)
 - e. 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 Data, including but not limited to:
 1. Drainage Area for each terrace
 2. Runoff Curve Number
 3. Design storm(s) return period
 4. Rainfall runoff and sediment volumes
 - iii. Design Survey
 1. Field survey notes must conform to NEM Part 540. Include a hard copy of the raw data and reduced survey if using an electronic data collector.
 2. Include temporary benchmark elevations, description, and location.
 3. Can be combined with layout survey
 - iv. Interval/Spacing calculations
 - v. Capacity of terrace basin storage area
 - vi. Capacity and stability of terrace channel
 - vii. Terrace cross section type, ridge dimensions, channel grades and widths, ridge lengths
 - viii. Outlet Capacity and Stability
 - ix. Vegetative establishment
2. Written plans and specifications shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits. As a minimum they must include:
 - a. Location Map with legal description
 - b. A plan view of the layout of the terrace system.
 - c. Typical cross sections of the terrace(s).
 - d. Profile(s) or planned grade of the terrace(s).
 - e. Details of the outlet system.
 - f. If underground outlets are used, details of the inlet and profile(s) of the underground outlet.
 - g. Seeding requirements if needed.
 - h. Bill of materials needed for the construction.
 - i. Site specific construction specifications that describe in writing the installation of the terrace system.
3. Operation and maintenance plan for the operator to follow. The minimum requirements to be addressed in the written plan are:
 - a. Periodic inspections, especially immediately following significant runoff events.
 - b. Prompt repair or replacement of damaged components.
 - c. Maintenance of terrace ridge height, channel profile, terrace cross-sections and outlet elevations.
 - d. Removal of sediment that has accumulated in the terrace channel to maintain capacity and grade.
 - e. Regular cleaning of inlets for underground outlets. Repair or replacement of inlets damaged by farm equipment. Removal of sediment around inlets to ensure that the inlet remains the lowest spot in the terrace channel.
 - f. Where vegetation is specified, complete seasonal mowing, control of trees and brush, reseeding and fertilizing as needed.
 - g. Notification of hazards about steep slopes on the terraces.

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4. Certification that the design meets practice standard criteria and complies with applicable laws and regulations (NEM Subpart A, 505.03(b)(2)).
5. 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. Verification that client has obtained required permits
3. Staking and layout according to plans and specifications including applicable layout notes
4. Installation inspection
 - a. Verification of materials used
 - b. Field inspections during construction
 - c. Record of inspection activities
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(c) (1)).

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 drawings are required when a significant change in design occurs during construction or when the job is designated as Class V or higher. Identify "As Built" on the 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. Certification that the installation meets NRCS standards and specifications and is in compliance with permits
3. Progress reporting

REFERENCES

- Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Terrace, 600.
- National Engineering Manual
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- USDA, NRCS. 2004. Revised Universal Soil Loss Equation, Ver. 2 (RUSLE2).
- USDA, NRCS. National Engineering Handbook, Part 650, Engineering Field Handbook, Chapter 7, Grassed Waterways.
- USDA, NRCS. National Engineering Handbook, Part 650, Engineering Field Handbook, Chapter 8, Terraces.