

STATEMENT OF WORK
IRRIGATION LAND LEVELING
(464)
Montana

State Contact: State Conservation Engineer (406) 587-6828

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work. Technical Service Provider (TSP) shall follow and document all the requirements as outlined in the practice standard. The TSP shall also follow and document the steps as outlined in various chapters in the Montana Supplement to the Engineering Field Handbook as it applies. Documentation and certification requirements for the practice are also outlined in the NRCS, 450-General Manual, Part 407, Documentation, Certification and Spot Checking, MT407.10. This is located on the Montana eFOTG site at:

http://efotg.nrcs.usda.gov/references/public/MT/GM_450_Part_407.pdf

Documentation requirements for Technical Service Providers on engineering projects are located at:

ftp://ftp-fc.sc.egov.usda.gov/MT/www/eng/engineering_documents/worksheets/ef50501b.pdf

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. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Field grades
 - ii. Soil Characteristics (e.g., texture, permeability, and depth)
 - iii. Erosion Control.
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. Operation and maintenance plan.
4. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03(b) (2)).
5. Design modifications during installation as required.
6. Design flow rates will be based on crop's consumptive use, field layout and water holding capacity of the limiting soils, but in no case shall the flow rate exceed the producer's water rights.
7. In addition to a Montana PE seal, the TSP shall certify on the final design drawings that "to the best of my professional knowledge, judgment and belief, these plans meet NRCS Practice Standard and appropriate NRCS specification".

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
 - 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(c)(1)).

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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
3. Progress reporting.

REFERENCES

- Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Irrigation Land Leveling, 464. http://efotg.nrcs.usda.gov/efotg_locator.aspx?map=MT
- National Engineering Manual <http://directives.sc.egov.usda.gov/RollupViewer.aspx?hid=27418>
- NRCS National Environmental Compliance Handbook <http://directives.nrcs.usda.gov/RollupViewer.aspx?hid=17091>
- NRCS Cultural Resources Handbook <http://directives.nrcs.usda.gov/opennonwebcontent.aspx?content=17720.wba>
- National Engineering Handbook Part 652- Irrigation Guide <http://directives.sc.egov.usda.gov/viewerFS.aspx?id=3895>
- Montana Irrigation Manual
- Montana Irrigation Guide