

STATEMENT OF WORK
Aquatic Organism Passage (396)
Oregon

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work. All work must be approved by an NRCS employee with the appropriate job approval authority or must be completed by an engineer licensed in Oregon State. Designs completed by a PE shall be reviewed by the appropriate NRCS staff prior to acceptance as needed.

DESIGN

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
 - 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. Hydrology/Hydraulics
 - ii. Structural
 - iii. Environmental Considerations (GM 190 ECS-Part 410.22)
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. Oregon Department of Fish and Wildlife (ODFW) Fish Passage Criteria to be followed as part of NRCS criteria and ODFW personnel to be contacted by the landowner.
 - b. For listed species under the Endangered Species Act (ESA), National Marine Fisheries Service Fish Passage Criteria for anadromous fishes is to be followed.
3. Quantities list and engineers cost estimate
4. 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).
5. Operation and Maintenance Plan
6. Certification that the design meets practice standard criteria, including Supporting Practice Standard criteria, and comply with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)).
7. Design modifications during installation as required.

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 (Part 512, Subchapter D Quality Assurance Activities, 512.33)
 - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer. Ensure that all modifications are documented and written approval from the designer approving the modifications.
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.

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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 (NEM Subpart A, 505.03 (c) (1)).
3. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Aquatic Organism Passage, 396
- NRCS General Manual (GM)
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- NRCS National Biology Manual
- NRCS National Biology Handbook
- Oregon Department of Fish and Wildlife Policies on Fish Passage
- National Marine Fisheries Service, Northwest Region, Anadromous Salmonid Passage Facility Design