

Roof Structures for Water Quality Practices

Wisconsin Conservation Practice Job Sheet 367

Landowner: _____

County: _____ Address: _____

Design Phase

Conservation practices installed to address water quality resource concerns can benefit from the installation of a roof over the facility. The exclusion of precipitation reduces the volume of liquids to be contained within or treated by the facility. The management of the practice and handling of the materials can also be improved.

The roof and associated structure will be designed and sealed by an engineer or architect registered in Wisconsin. The following are to be provided to the landowner:

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| <ul style="list-style-type: none"> <input type="checkbox"/> Necessary foundation investigations (depth of footings) <input type="checkbox"/> Laboratory testing of soils (if needed) for planning and design of the project (bearing pressure) <input type="checkbox"/> All computations necessary for the roof <ul style="list-style-type: none"> Design loadings ASCE-7 (current version) <ul style="list-style-type: none"> <input type="checkbox"/> Wind load (downward and uplift) <input type="checkbox"/> Snow load <input type="checkbox"/> Dead load <input type="checkbox"/> All design calculations to support the: <ul style="list-style-type: none"> <input type="checkbox"/> Truss design <input type="checkbox"/> Purlin design <input type="checkbox"/> Post/truss connection <input type="checkbox"/> Post design <input type="checkbox"/> Anchoring design <input type="checkbox"/> Bracing <input type="checkbox"/> Diaphragm analysis | <ul style="list-style-type: none"> <input type="checkbox"/> References used (hanger loadings and other connections) <p>Signed and sealed</p> <ul style="list-style-type: none"> <input type="checkbox"/> Planning documents <input type="checkbox"/> Design computations <input type="checkbox"/> Construction drawings (Trusses, posts, connections, bracing, purlins, and hangers) <input type="checkbox"/> Specifications <input type="checkbox"/> A construction quality assurance plan stating the items requiring inspection, documentation requirements, and the qualifications of the personnel performing the inspections. <input type="checkbox"/> An operation and maintenance plan <input type="checkbox"/> Cost Estimate. <input type="checkbox"/> A signed statement similar to the following: "To the best of my professional knowledge, judgment, and belief, this design and these construction plans meet NRCS Standard 367, Roofs and Covers." |
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I have received the information listed above for the design phase of the project.

Signature of District Conservationist

Date

I have received and accept the design information as meeting NRCS Standard 367, Roofs and Covers.

Signature of staff with Engineering Job Approval

Date

Construction Checkout Phase

The following are to be provided to the landowner.

Practice construction documents to include:

- An as-built plan (showing approved changes from the original plan).
- All supporting documentation detailed in the construction quality assurance plan.
- A job diary providing a chronological record of work performed.
- A signed statement similar to the following:
"To the best of my professional knowledge, judgment, and belief, this practice has been installed in accordance with the construction plans and specifications and meets NRCS Standard 367, Roofs and Covers".

I have received the information listed above for the construction phase of the project.

Signature of District Conservationist

Date

I have received and accept the construction information as meeting NRCS Standard 367, Roofs and Covers.

Signature of staff with Engineering Job Approval

Date