

GUIDANCE DOCUMENT

NRCS, GA
June 2016

Building Envelope Improvement, Code 672

I. References

- A. Design Criteria
 - 1. Georgia FOTG Section IV, conservation practice standard, Building Envelope Improvement, Code 672.
- B. Design/Layout Surveys
 - 1. TR-62 Engineering Layout, Notes, Staking & Calculations.
 - 2. NEFH Part 650, Chapter 1, Engineering Surveys.

II. Documentation

- A. Preliminary Investigation

Make a preliminary investigation of the need and feasibility of the building envelope improvement(s) recommended by an on-site energy audit.
- B. Engineering Surveys
 - 1. The engineering survey will consist of the location of the proposed on- farm energy improvement and any structures that may be in support of or interfere with its installation.
 - 2. Note the location of any utilities or utility markers.
- C. Design
 - 1. Determine the insulation or crack sealant appropriate to accomplish its intended task and the location needed. Use appropriate testing techniques to determine the scope
 - 2. Develop engineering plans and specifications. As a minimum the plans and specifications shall include:
 - a. Work necessary to close and insulate curtain walls and other areas needing insulation. Include adequate information regarding materials, quality, dimensions, special installation techniques, etc. necessary to properly install the practices.
 - b. Length and location of crack to be sealed.
 - 3. Details of appurtenances that support the improvement.
 - 4. Location of utilities and notification requirements.
- 3. Develop a site specific O&M Plan for the practice.

III. Construction Layout

Review the plans and specifications with the landowner and contractor prior to the start of construction. Ensure the landowner/contractor thoroughly understand their responsibilities including obtaining all permits, easements, etc.

Record layout data in the engineering field book or in the electronic field book.

- 1. Stake the location and critical location of the work, as appropriate.

IV. Construction

Adequate site visits and checks shall be made during construction to verify that the plans and specifications are followed.

Any changes to the design during construction must be reviewed and concurred by the landowner and shall be approved by the designer and person with appropriate engineering design job approval authority.

V. Construction Checkout

Record the following information on the plans, in the engineering field book or on NRCS-ENG-523A (or equivalent).

- 1. Dimensions, thickness, quality, and material used.
- 2. Prepare as-built drawings showing final details, etc.
- 3. If the practice meets NRCS standards and specifications, then the statement "This practice meets NRCS practice standards and specifications" shall be placed on the checkout

document and signed and dated by the responsible person with appropriate level of engineering job approval authority.

VI. Reporting and/or Certifying

After it has been determined and documented that the practice meets NRCS plans and specifications, it can be reported and certified. The extent of the practice to be reported is the number of on-farm equipment efficiency improvements installed. The extent of the practice to be certified is the quantities used as the basis of payment.