

# INDIANA DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL REQUIREMENTS<sup>i</sup>

## Introduction

The Indiana Department of Transportation (INDOT) maintains a list of approved retaining wall systems. Wall vendor submittal requirements for requesting approval are stated in their Indiana Test Methods or Procedures No. 806, Approve List Requirements, that was revised on May 9, 2019; and is available on INDOT website. Specific requirements are listed under Section 14.0 Approved List Procedure J for Retaining Wall Systems. The following listing is based upon ITM 806, that is available at <https://www.in.gov/indot/div/mt/itm/itm.htm>. INDOT should contact the IDEA webmaster and update their report when their policies, etc. change. This supplemental requirements report is readily updateable, and a revision number and date should be noted.

INDOT accepts IDEA reports as a vendor approval request submittal. Their submittal approval process does require some additional or variation of the information listed on the IDEA protocols (available at <https://www.geoinstitute.org/special-projects/idea>). Specifically, INDOT requires submittal of the information listed below to supplement an IDEA report on a particular wall system.

Information that is identical to, and therefore redundant to, IDEA protocol listed items is not listed in this supplemental requirements report. However, items under a topic that the agency requests which are more specific or detailed than the IDEA protocol are listed. The wall system supplier submittal may address this in their supplemental information or, if fully addressed in their IDEA submittal, refer to their IDEA report.

Note that INDOT differentiates submittal requirements by whether or not the wall system has been approved for use in by least one state (DOT), or not.

## Submittal Requirements for Wall Systems with At Least One State DOT Approval

1. An IDEA technical evaluation report.
2. Shop drawings of the wall facing. The shop drawings shall show all dimensions, reinforcing steel, ground reinforcement attachments, and any other information necessary to describe the retaining wall system.
3. Copies of any brochures, photographs, specifications and other information on the wall system's use, applications, construction methods, etc.
4. A list of all other state DOTs in which the wall system is currently approved.
5. A list of at least five successful installations of the system, the states in which they are located, the contract they were installed on, the location of the project, the owner's name and contact information, and the prime Contractor on the contract. Each successful installation shall have a different height from the other listed installations, and shall have been placed on a state project. Sufficient information shall be included to describe the foundation soils on each of the five installations.

6. A Type A Certification in accordance with 916.02(a) substantiating that materials used in the wall system are in compliance with the applicable specifications. From INDOT Type A Certifications, dated April 2014:

**916.02(a) Type A**

*Type A certification shall be prepared by the manufacturer. It shall consist of a certified copy of a laboratory report which lists results of the specified tests and shall certify that the materials furnished comply with the specifications. The applicable specification shall be referred to in the certification. The tests may be conducted in the laboratory of the manufacturer or in another qualified laboratory. Such tests shall have been conducted on samples obtained from the lot or lots of material in the shipment.*

See <https://www.in.gov/indot/files/TypeACerts.pdf> for sample form and additional information.

7. A statement indicating that the wall system has been checked against the appropriate current INDOT retaining wall specifications and that the wall system either satisfies the current specifications or identifies areas where the wall system does not satisfy the current specifications.

**Submittal Requirements for Wall Systems Without a State DOT Approval**

In addition to the items above (with Items 4 and 5 noted as none), the following information shall be provided in the submittal.

8. Applicant Identification
  - a. Company/Firm Name
  - b. Name & Title of Authorized Representative
  - c. Address
  - d. Phone, Fax, e-mail address
9. Product Identification
  - a. Product or Trade Name
  - b. Description or composition
  - c. Intended use
10. Product Function
  - a. Specific technological problem or need the product is intended to address. As appropriate, the relative importance or significance of the described problem or need.
  - b. Innovative feature of the product intended to satisfy the identified problem or need.

## 11. Patents

- a. Product proprietary technology.
- b. Product patent, copyright, or other protection. A summary of the proprietary or protected features.

## 12. Performance Criteria

- a. Technical criteria that may be applied to determine how successful the product is fulfilling the intended function.
- b. Results from pullout testing of the ground reinforcement straps used in the wall system. Pullout testing shall be performed by an independent laboratory and not anyone affiliated with the wall system supplier. The backfill material used in the pullout testing shall be structure backfill type 3 except only nominal size aggregates No. 4, 1/2 in., or 1 in. or coarse aggregate No. 12 shall be used. The pullout testing shall be performed at 2 ft, 6 ft, 10 ft, 14 ft, 18 ft, and 22 ft depths of structural backfill.
- c. Any issues, other than functional performance, which may be of significant interest or concern to a potential user, such as safety performance or environmental acceptability.

Note that upon review of the submittal, additional information may be requested by the Office of Geotechnical Services for the following:

- a. Materials and material properties
- b. Design
- c. Construction
- d. Performance

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<sup>i</sup> Report Ver 1, December 2020.