

OKLAHOMA DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL REQUIREMENTSⁱ

Introduction

The Oklahoma Department of Transportation (ODOT) maintains an approved products list (APL) for Proprietary Wall Systems. The list includes both retaining wall systems and sound barrier wall systems. This list is available on the ODOT website, under the ODOT Bridge Division.

Retaining wall vendor submittal requirements for requesting approval are stated in ODOT Proprietary Retaining and Sound Barrier Wall Systems Review Process. A wall system supplier must submit to ODOT Bridge Division a written request for approval and a package which satisfactorily addresses the items listed in the ODOT Proprietary Retaining and Sound Barrier Wall Systems Review Process document. A current (less than 5 years old) Innovations, Developments, Enhancement and Advancements (IDEA) evaluation report that is consistent with the system being submitted may be used as part of addressing the listed requirements.

The bulk of the items listed in the ODOT system approval request documentation package are contained in an IDEA report. However, there are some additional requested items, which are not listed (or specifically noted) on the IDEA protocols (available at <https://www.geoinstitute.org/special-projects/idea>). A retaining wall supplier with an IDEA report should supplement their report with the additional, specific items that ODOT requires listed below.

Items that are identical to, and therefore redundant to, IDEA protocol listed items are 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.

ODOT should contact the IDEA webmaster and update this report if/when their policies, etc. change. This supplemental requirements report is readily updateable, and a revision number and new date should be noted when updated.

Supplement Items

1) System Overview

- a) Identify the wall System category:
 - i) Concrete modular block unit paired with extensible reinforcement
 - ii) Concrete modular block unit paired with inextensible reinforcement
 - iii) Precast concrete panel paired with extensible reinforcement
 - iv) Precast concrete panel paired with inextensible reinforcement

- v) Steel facing paired with extensible reinforcement
 - vi) Steel facing paired with inextensible reinforcement
 - vii) Concrete modular gravity wall system
 - viii) Sound wall system
- b) Brief description of system
 - c) History of system development including patents
 - d) Practical applications with descriptions and photos
 - e) System advantages
 - f) System limitations and disadvantages including but not limited to:
 - i) Limiting differential settlement
 - ii) Limiting wall height
 - iii) Alignment turn angles or minimum radius
 - iv) Minimum face batter
 - v) Bridge abutment applications
- 2) Precast manufacturers information (names, addresses, phone numbers)
 - 3) Design:
 - a) Details of wall elements:
 - i) Details for mounting concrete traffic barrier (TL-4 and TL-5) on the wall adjoining both concrete and flexible pavements
 - 4) Typical unit costs
 - 5) A signed Affirmation of Responsibility to Notify of Changes (see Attachment A of ODOT Proprietary Retaining and Sound Barrier Wall Systems Review Process)

ⁱ Report Ver 1, August 2021.