STRUCTURES DESIGN BULLETIN 21-01
ROADWAY DESIGN BULLETIN 21-01
(FHWA Approved: February 8, 2021)

DATE: February 12, 2021

TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Construction Engineers, District Consultant Project Management Engineers, District Geotechnical Engineers, District Structures Design Engineers, District Maintenance Engineers, District Program Management Engineers, District Materials Engineers, FDOT Design Manual Holders

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SUBJECT: Plan Requirements for MSE Walls

This Bulletin updates FDOT Design Manual (FDM) 262.2 with respect to contract requirements for MSE walls.

REQUIREMENTS

1. Replace the third paragraph of FDM 262.2 with the following:

   Proprietary retaining wall design plans are not required in the contract plans for normal wall projects (see FDM 262.2.2). If the proprietary walls are two-phased, include generic details for attaching the permanent facing (second phase) to the primary reinforcement in the contract set. If spatial limitations require project specific details, or the wall is subject to unusual geometric or topographic features, include project specific details in the contract set. If the proprietary wall is experimental, it is required to have fully detailed design plans in the contract set (see FDM 262.2.3).
2. Replace *FDM* 262.2.2, item (2) with the following:

   (2) 60% Plans/Phase II Roadway Submittal:
   For bridge projects requiring project specific details for proprietary wall systems, include the project specific details in the 60% Plans Submittal. For wall projects without bridges, project specific details must be included in the Phase II Submittal.

3. Add *FDM* 262.2.2, item (3) as follows:

   (3) 90% Plans:
   Include the completed Wall Control Drawings, project specific details and Data Tables in the 90% Plans Submittal.

4. Replace the Modification for Non-Conventional Projects box in *FDM* 262.2.2 with the following:

   **Modification for Non-Conventional Projects:**

   Delete *FDM* 262.2.2 and replace with the following:

   **262.2.2 Proprietary Wall Systems Where Full Design Details Are Not Required In Contract Plans**

   Preapproved Vendor Drawings for proprietary wall systems are listed on the *APL* and are categorized in accordance with the applicable FDOT Wall Type(s). Utilize these drawings with the applicable standard(s) and Data Tables. Do not include the Vendor Drawings in the plans.

   Using site-specific geotechnical information, the EOR, in cooperation with the geotechnical engineer, will determine all wall system requirements. See *SDG 3.12* to determine appropriate FDOT Wall Type. Include Wall Control Drawings, project specific details and Data Tables in the Component Plans submittal, as specified in the *SDM, Chapter 19*. Denote the location of drainage inlets, utilities, sign structures, lights and barrier joints in the plans. See the *SDM, Chapter 19* for more information.
5. Replace the Modification for Non-Conventional Projects box in *FDM 262.2.3* with the following:

<table>
<thead>
<tr>
<th>Modification for Non-Conventional Projects:</th>
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<tbody>
<tr>
<td><strong>Delete FDM 262.2.3 and replace with the following:</strong></td>
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<tr>
<td><strong>262.2.3 Proprietary Wall Systems Where Full Design Details Are Required In Contract Plans</strong></td>
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<tr>
<td>Using site-specific geotechnical information, the EOR, in cooperation with the geotechnical engineer, will determine wall system requirements. See <em>SDG 3.12</em> to determine appropriate FDOT Wall Type. The Design-Build EOR must coordinate with one of the vendors with approved wall drawings on the APL to prepare fully detailed project specific proprietary drawings for inclusion into the Component Plans. Include Wall Control Drawings and Data Tables (in accordance with <em>SDM, Chapter 19</em>) in the Component Plans submittal. Denote the location of drainage inlets, utilities, sign structures, lights and barrier joints in the plans. See the <em>SDM, Chapter 19</em> for more information.</td>
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**BACKGROUND**

These revisions should decrease design costs related to coordinating with MSE Wall Companies for fully detailed wall plan sheets for MSE Wall heights exceeding 40-feet, subject to unusual geometric or topographic features or subject to excessive settlement, or extreme environmental conditions.

**IMPLEMENTATION**

These requirements are effective on all design-bid-build projects with a letting on or after the date of this Bulletin.

These requirements are effective immediately on all design-build projects for which the final RFP has not been released. Design-build projects that have had the final RFP released are exempt from these requirements unless otherwise directed by the District.

**CONTACT**

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