Earthwork – Structure Excavation and Backfill – Submittals

Revision and Approval

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<td>12-05-2017</td>
<td>Original issue.</td>
<td>Steve Altman</td>
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Background

This process establishes Structure Construction (SC) responsibilities and procedures for review and authorization of earthwork submittals, including:

- Shop drawings for cofferdams.
- Shop drawings for soldier pile walls.
- Collaborative review of shop drawings for ground anchors and soil nail walls with Structure Design.
- Controlled low-strength material.
- Stability test results for ground anchors and soil nail walls.

Process Inputs

1. Contractor’s submittal(s).

Procedure

1. All work associated with this process should be charged to the Project-Direct-Construction, unless otherwise directed.

2. Receive submittal; check that submittal meets the requirements of the contract documents.

3. For excavations utilizing temporary structures:
   b. When authorizing or rejecting shop drawings, send a Temporary Structure Plan Analysis Report per BCM C-4.12, Shop Drawing Review of Temporary Structures. Attachment No. 1 is a sample authorization letter for a shoring plan.
c. When temporary shoring structures are installed as part of an Encroachment Permit, conform to the Division of Traffic Operations’ Memorandum titled: *Temporary Ground Anchor (Tieback) Encroachments*, dated July 26, 2017. See Attachment No. 2.

4. For soldier pile walls:
   a. Review the shop drawings for contract compliance per *BCM 5-1.23, Control of Work – Submittals* and the Standard Specifications (SS)\(^1\).

5. For ground anchor and soil nail walls:
   a. Coordinate the review with the project designer per the *Foundation Manual, Chapter 11, Ground Anchors & Soil Nails*, and *Memo to Designers 5-14, Review of Shop Drawings for Ground Anchors*, or *Memo to Designers 5-18 Attachment A, Soil Nail Working Drawings Review Process (Interim)*.
   
   b. Authorize or reject the shop drawings based on the project designer’s recommendation.

6. For Stability Test results:
   a. Review the submittal for the specified wall zone.
   b. Determine whether the exposed excavated face maintains integrity per the SS\(^2\).

7. For Controlled Low Strength Material:
   a. Typically this is District work. If this is structure work, review the mix design in accordance with the requirements of the contract documents.

8. Notify the Contractor of authorization or rejection of all submittals in writing.

**Process Outputs**


**Attachments**

Attachment No. 1: Sample Authorization Letter.

Attachment No. 2: Temporary Ground Anchor Encroachments Memo.

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\(^1\) *2015 SS*, Section 5-1.23B(2), *Shop Drawings*.

\(^2\) *2015 SS*, Section 19-3.01D(2), *Stability Test for Ground Anchor and Soil Nail Walls*. 

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