



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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GOVERNOR

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SECRETARY

EDS MEMO TO: Project Engineers
Project Design Engineers

FROM: B. C. Hanks, P. E.
State Structures Engineer

DATE: August 9, 2021

SUBJECT: GEOTECHNICAL FOUNDATION TABLES

The Geotechnical Engineering Unit (GEU) has implemented new [Geotechnical Foundation Tables](#) and revised load request memo templates.

Foundation Tables will be separate plan sheets and should be included after the Foundation Layout sheet with the General Drawings. The geotechnical design engineer will complete the Geotechnical Foundation Tables plan sheet(s) and include the plan sheet(s) in the sealed *Foundation Recommendations*. The structure engineer will review the values and seal the Geotechnical Foundation Tables plan sheet. Do not duplicate quantities shown on the Geotechnical Foundation Tables in the substructure plan sheets such as pile information, drilled pier quantities, and testing.

The revised load request memo templates require additional information be provided as follows:

Piles

- Top of pile elevation and pile number for each pile.
- The bottom of footing elevation and the footing number for bents with pile footing foundations.

Drilled Piers

- The drilled pier number for each pier.
- The bottom of footing elevation and the footing number for bents with drilled pier footing foundations.

The following sections of the Design Manual have been revised:

Section	Summary of Revision(s)
5.1.2.3	Added guidance for pile and pier numbering for new Geotechnical Foundation Tables.
5.1.2.4	Added section for Geotechnical Foundation Tables and renumbered remaining sections of 5.1.2.
5.2.4	Revised to reference Geotechnical Foundation Tables. Removed reference to Standard Foundation Notes.
7.4.4.1	Revised to reference Geotechnical Foundation Tables. Removed guidance to add foundation note for steel pile tips.
7.4.5.2	Revised to reference Geotechnical Foundation Tables. Removed guidance for calculating Permanent Steel Casing length and CSL tube length. Removed guidance to show quantities for “SID Inspections”, “CSL Tubes”, and “CSL Testing” on the bent plan sheets.
11.5	Updated reference to 5.1.2.5 Long Chord Layout.

The following Design Manual figure has been revised:

Figure	Summary of Revision(s)
1-1	Revised to include Geotechnical Foundation Tables.

The Design Manual, as well as the updated Design Manual Figures, are available on the Structures Management website.

These revisions are effective beginning with the October 2021 letting.

BCH/BAQ/THC

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