

January 18, 2008 SGE Summary of Revisions

- I. Overall – made a few grammatical and formatting changes throughout for clarity.
- II. Section 100
 - a. 103 – added paragraph referencing geotechnical bulletins and other office manuals.
- III. Section 300
 - a. 301 – added General section in its entirety. The purpose of this section is to outline the planning and execution of a Geotechnical program, as detailed in FHWA-IF-02-034, page 5
 - b. added figure from FHWA-IF-02-034, page 5 for reference.
 - c. Reformatted entire Section 300 due to added Section 301 and added figure 300-1.
 - d. 303.1 – added requirement for submission of boring plan to DGE for review and approval prior to starting exploration program. Listed the requirements for submission.
 - e. 303.4.1 – changed the minimum drilling depth requirements for embankments to be equal to the height of the embankment, of which the last 10’ (was 5’ before) must be in stiff or medium dense soils.
- IV. Section 400
 - a. 401 – added reference to “Geotechnical Engineering Circular No. 5, Evaluation of Soil and Rock Properties,” FHWA-IF-02-034.
 - b. 401.8 – established minimum survey requirement for river gauge.
 - c. 402.1 – added reference to ASTM D 1452.
 - d. 403 – added reference to ASTM D 4700.
 - e. 403.3 – added requirement to core in accordance with AASHTO T225, except a single tube barrel is not permitted. As a minimum, use a double tube core barrel, swivel type.
 - f. 407 – added second paragraph discussing requirements to patch pavement section of borings through pavement.
 - g. 408 – added section in its entirety regarding coring and patching of bridge decks. Added figure 400-2.
 - h. 410 – defined the task and how to pay for field supervision and field logging as follows:
 - i. Field coordination and field logging are engineering services to be performed and paid for according to the engineering agreement and the Specifications for Consulting Services. Field coordination includes making arrangements for site access, procuring any necessary permits, clearing utilities, preparing damage reports, and property damage restoration oversight. Field logging includes preparing all records presented in Section 408. The method of compensation for the work involved in field coordination will be actual cost plus a net fee. The method of compensation for the work involved in field logging, if drilling is subcontracted, will be

actual cost plus a net fee, otherwise, it will be included in the unit cost of drilling.

V. Section 600

- a. 601 – added reference to “Geotechnical Engineering Circular No. 5, Evaluation of Soil and Rock Properties,” FHWA-IF-02-034, for state of the practice laboratory testing information.
- b. 605.12 – added this section in its entirety.

VI. Section 700

- a. 702.3.2 – deleted word, “usual” before “descriptions” for clarity.
- b. 702.3.5.b – changed to include sample number, including an example, with the requirement not to repeat sample numbers in a boring.
- c. 703.2 – added “when possible” to the end of the 2nd sentence, to account for the possibility of not being able to present all the geotechnical data at the site plan vertical scale with clarity, thus requiring a scale change.
- d. 705.8.3.b.2 – added the following to the second sentence, “For the appropriate range of stress conditions selected,”...

VII. Section 800

- a. 801 – added the following, “Only modify the proposal format to best represent the proposed labor personnel categories. Otherwise, (do not modify the proposal format.)
- b. 802 – added the following, “Only modify the invoice format to best represent the proposed labor personnel categories. Otherwise, (do not modify the invoice format.)

VIII. Appendix E

- a. Revised proposal-invoice form to replace the one in Appendix E in its entirety (Geotech proposal-invoice.xls)