

# EXPECTED IMPLEMENTATION JULY 2018

## 125 EXCAVATION FOR STRUCTURES AND PIPE. (REV 11-1-17) (FA 12-19-17) (7-18)

SUBARTICLE 125-8.1.6.1 is deleted and the following substituted:

**125-8.1.6.1 Thick Lift Requirements:** The Contractor may elect to place material in thicker lifts of no more than 12 inches compacted thickness above the Soil Envelope if the embankment material is classified as Group 1 in the table below. If the embankment material is classified as Group 2 in the table below and the Contractor chooses to place material in thicker lifts of no more than 12 inches compacted thickness above the soil envelope then the Contractor must demonstrate with a successful test section that density can be achieved. Thick lift around structures is only allowed above the soil envelope of the connecting pipe. Notify the Engineer in writing prior to beginning construction of a test section. Construct a test section of the length of one LOT. Perform five quality control (QC) tests at random locations within the test section. All five tests must meet the density required by 125-9.2 and be verified by the Department. Identify the test section with the compaction effort and soil classification in the Log Book. In case of a change in compaction effort or soil classification, construct a new test section. When a QC test fails the requirements of 125-9.2 or when the QC tests cannot be verified, construct a new test section. The Contractor may elect to place material in 6 inches compacted thickness at any time.

| Group | AASHTO Soil Class                  | Maximum Lift Thickness                |                     | Thick Lift Control Test Section Requirements |                                      |
|-------|------------------------------------|---------------------------------------|---------------------|--|--------------------------------------|
|       |                                    | Within Cover Zone                     | Above Soil Envelope | Within Cover Zone                            | Above Soil Envelope                  |
| 1     | A-3                                | 6 inches                              | 12 inches           | N/A  | Not Needed                           |
|       | A-2-4 (No. 200 Sieve $\leq$ 15%)   |                                       |                     |  |                                      |
| 2     | A-1                                | 6 inches without control test section |                     | N/A  | Maximum of 12 inches per 120-8.2.1.2 |
|       | A-2-4 (No. 200 Sieve $>$ 15%)      |                                       |                     |  |                                      |
|       | A-2-5, A-2-6, A-2-7, A-4, A-5, A-6 |                                       |                     |  |                                      |
|       | A-7 (Liquid Limit $<$ 50)          |                                       |                     |  |                                      |

SUBARTICLE 125-9.2.1 is deleted and the following substituted:

**125-9.2.1 Density:** Obtain a minimum QC density in any LOT of 100% of the Standard Proctor maximum density as determined by FM 1-T099 or the requirements of 125-8.3.3.1 when applicable. When the cover height below the bottom of base under asphalt pavement, below concrete pavement, or below unpaved ground, exceeds 15 inches, compact the pipe backfill in the cover zone to a density of at least 95% of the Standard Proctor maximum density as determined by FM1-T099.

For density requirements around drainage structures, obtain a minimum QC density in any LOT of 100% of the Standard Proctor maximum density as determined by

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FM 1-T099 for a distance of one pipe diameter but not less than 3 feet from the outside face of the structure.

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