

STRUCTURES FOUNDATIONS  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (6-9-17)

Please note the title difference between spec 455-0300 and 455-0000DB in section 455-11.2.2. One is spelled "Unplanned". The other is spelled "Unplaned".

Response: Thank you. "Unplanned" is the correct one. Change made.

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Gus Quesada  
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Comments: (6-12-17)

I think that if a section exists such as 455-5.16.5 to address eccentricity or out of alignment, we should not restate the condition on "455-3 Description"... same goes for damaged piles... it sounds like stating the obvious or pulling their ears... 455-11.1 not sure what the intent of this statement is "No adjustments in the length, in feet, of piling..." is it to restrict adjustments to the payment or to prevent adjustments to the length? It's a bit confusing and may get misinterpreted.

Response:

- 455-5.16.5 does not state that the default action in case of a pile being mislocated is to pull it out. So adding the statement in 455-3 is not redundant, but necessary.
- The language addressing damaged piles already existed in 455-11.2.7. It was just moved to 455-3 to be clearer.
- The intent of the paragraph added to 455-11.1 is not to pay for cut-offs as it has our practice for many years now. This was existing language that was moved from 455-11.2.4.
- No change made.

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Larry Jones  
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Comments: (6-19-17)

The positional tolerance is too large for small diameter piles. Please revise 455-5.16.2 as follows:  
455-5.16.2 Position: Ensure that the final position of the pile head at cut-off elevation is no more than 3 inches, or 1/6 of the diameter of the pile, whichever is less, laterally in the X or Y coordinate from the Plan position indicated in the Plans.

Response: Agree. Change made.

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Comments: (6-19-17)

Please update the required spacing between load test piles and reaction piles in 455-2.2 (2.b) to those currently shown in ASTM 1143 as follows: b. Load Applied to the Test Pile or Shaft by Hydraulic Jack Acting Against Anchored Reaction Member: Construct reaction member anchorages as far from the test piles/shafts as practical, but in no case shall the clear distance be closer than the greater of 5 pile/shaft diameters or 8 feet from the edge of the test pile/shaft.

Response: Agree. After discussion with the author of the comment, change made as follows: "b. Load Applied to the Test Pile or Shaft by Hydraulic Jack Acting Against Anchored Reaction Member: Construct reaction member anchorages in accordance with article 6.3 of ASTM D1143".

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Comments: (7-3-17)

The following editorial change is requested in order to clarify the intent of 455-5-12-2 (3.b) and avoid perceived conflicts with the AASHTO LRFD Bridge Design Code: Change the term "fpe" to "fcpe" in equations 1, 2a, & 2b, and where: Revise the definition of fcpe (currently fpe=) to effective prestress in the concrete (after all losses) at the time of driving, psi, taken as 0.8 times the initial prestress force divided by the minimum net concrete cross-sectional area of the pile. (fcpe=0 for dowel spliced piles).

Response: Agree. Change made.

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Comments: (7-3-17)

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Response: This comment was intended for the DB specification. Change made to the DB version of 455.

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