

4550103 STRUCTURES FOUNDATIONS
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Jason Watts

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Comments: (10-19-15)

In 455-7.7.2 a comma needs to be inserted.

→ → When dowel splices need to be driven, assist the Engineer in performing dynamic instrumentation during the driving of each dowel spliced pile to monitor and control the stresses and verify the splicing integrity. Replace any damaged pile splices in accordance with 455-11.2.7. Provide the Engineer 48 hours advance notification prior to driving spliced piles. ¶

Response: Agree. Change made.

Karen Byram

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Comments: (10-19-15)

455-2.4(2): The specification needs to define ‘reputable testing laboratory’. I suggest replacing ‘reputable’ with a definition of laboratory certification requirements.

Response: This is existing language which has been in the specs for decades and has not created any issue so far. This issue was also recently identified by the 455 Task Team and we will look into it for a possible future revision.

No change made.

Hisham Sunna

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Comments: (10-28-15)

Makes no sense to change "furnish/provide etc. to the Engineer" to "submit to the Engineer" as this information is subject to review and approval. The other way is not applicable. The Engineer will "furnish" was correct. Do not change to "submit".

Response: Disagree. Submit means “to give (a document, proposal, piece of writing, etc.) to someone so that it can be considered or approved”. After several internal meetings it was decided to use the term “submit” in lieu of “furnish, provide, supply, etc.” when talking about submission of documents. This revision was to be done, when applicable, to all the sections; not just 455.

No change made.

Anonymous

Comments: (10-29-15)

If it is possible to produce these reports in PDF format, then it would be very easy to sign & seal them using a digital signature; thus eliminating costly printing & scanning.

Response: Agree.

No Change made.

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Comments: (11-20-15)

In 455-7.7.2(9) I suggest adding a comma after the word “driven” in the first sentence of the second paragraph since this is an introductory statement. Also, in this same sentence is the word “in performing dynamic instrumentation” the correct statement? Seems that the statement “in the installation of dynamic instrumentation” would be more appropriate.

Response: Agree with first suggestion which is the same suggestion presented in the first comment (by Jason Watts). Regarding the question raised, the phrase “in performing dynamic instrumentation” is correct. We need to Contractor to assist us in successfully performing the instrumentation not just installing it. No Change made.

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Additional comment (addressed to Juan Castellanos via e-mail on 11-20-15)

Do we really want to delete the blue highlighted text below? It doesn't happen very often, but if a Contractor elects to use dowel splices on a job with Pre-planned splices, what is going to require them to allow us to test? Doesn't the text in red above deal just with unexpected pile extensions, not the situation where splices are planned.

- → → 9. After curing is completed, remove alignment braces and forms and clean and dress the spliced area to match the pile dimensions.¶
- → When dowel splices need to be driven assist the Engineer in performing dynamic instrumentation during the driving of each dowel spliced pile to monitor and control the stresses and verify the splicing integrity. Replace any damaged pile splices in accordance with 455-11.2.7. Provide the Engineer 48 hours advance notification prior to driving spliced piles.¶

SUBARTICLE 455-7.8 is deleted and the following substituted:¶

- **455-7.8 Pre-Planned Splices:** Splices shall be made by the doweled splice method contained in the Standard Indexes or may be made using proprietary splices which are listed on the Department's Approved Product List (APL). Splice test piles in the same manner as the production piles. Include in the pile installation plan, the chosen method of splicing and the approximate locations of the splice. Generally, place the splice at approximately the midpoint between the estimated pile tip and the ground surface, considering scour if applicable. Stagger the splice location between adjacent piles by a minimum of 10 feet. Obtain the Engineer's approval prior to constructing any pile sections. Construct piles which are to be spliced using the doweled splice with preformed dowel holes in the bottom section and embedded dowels in the upper section.¶
- → When electing to use dowel splices, assist the Engineer in performing a dynamic load test on each dowel spliced pile to verify the splicing integrity at the end of driving. Replace any damaged pile splices in accordance with 455-11.2.7. Provide the Engineer 48 hours advance notification prior to driving piles with epoxy bonded dowel splices.¶
- → Mechanical pile splices shall be capable of developing the following capacities in the pile section unless shown otherwise in the Plans and capable of being installed without

Response: Thank you, good point. Change made on 455-7.8 adding back a revised paragraph as follows: "When dowel splices need to be driven, assist the Engineer in performing dynamic instrumentation during the driving of each dowel spliced pile to monitor and control the stresses and verify the splicing integrity. Replace any damaged pile splices in accordance with 455-11.2.7. Provide the Engineer 48 hours advance notification prior to driving spliced piles." Change made.
