

4550102DB STRUCTURES FOUNDATIONS
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (5-1-19, 5-9-19, Internal)

Suggest the following changes:

1. 455-5.11.4 Set-checks and Pile Redrive:

I'm not sure why we need a different definition of set-checks on DB. Driving at least 24" seems to be excessive. If an "uninstrumented set-check" reaches refusal prior to driving at least 24", according to the suggested revision, it would have to be instrumented for acceptance

Set-checks or redrives for piles redriven less than 24 inches must be instrumented for pile acceptance.

Set checks can be determined to achieve bearing in inches and not 2 feet. This is excessive

Response:

2. 455-8.9 Filling Pipe Piles: Ensure **closed-end** pipe piles are watertight. ~~The Engineer may reject closed-end pipe piles that exhibits water leakage or require pile extraction to repair integrity defects.~~

Response:

3. The design of the closed end pipe pile is up to the department. If I drive the pile and the bottom breaks out or is leaking that should be on the department and not the contractor. The contractor should not be responsible for watertight.

Response:

Scott C. Arnold
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Comments: (5-6-19)

1.

SUBARTICLE 455-8.9 is deleted and the following substituted:¶
→ **455-8.9 Filling Pipe Piles:** Ensure **closed-end** pipe piles are watertight. ~~The Engineer may reject closed-end pipe piles that exhibits water leakage or require pile extraction to repair integrity defects.~~ When required by the Plans, fill pipe piles with the specified materials. Use

Response:

2. 455-15.1.2

→ → → 5. Details of slurry, including proposed methods to mix, circulate, **de-sand**, test methods, and proposed CTQP certified technician that will perform and document the fluid tests.¶
→ → → 6. Details of proposed methods to clean the shaft excavation.¶

Response: Existing text/language is correct as written.
No change made.

3. 455-17.16.1.3

~~Save screen captures of these pages from the 414 response. Estimate that to be acceptable.~~
→ → → → 9. A conclusion stating whether the tested shaft is free from integrity defects and meets the minimum concrete cover and diameter requirements by the specifications. When anomalies are detected, include in the report a **three-dimensional** rendering of the shape of the shaft.¶

Response: Change will be made.
Change made.

4.

▪ **455-41 Grout Mix Proportions.**¶
→ Use a **cement** grout mix consisting of a mixture of cementitious materials, admixtures, sand and water. **Proportioned** and **mixed** to produce a grout capable of maintaining the solids in suspension without appreciable bleed water which may be pumped without difficulty and will fill open voids in the adjacent soils and rock. The grout mix may **also** include a fluidifier **if desired**. ~~Add the fluidifier without exceeding violating the speed of application, dosage, or any other limits contained in the manufacturer's technical data sheet.~~ Proportion these materials to produce a hardened grout of the required strength.¶

Response:

Comments: (date)

Response:

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Comments: (5-14-19)

Hold Cylinders for QC (2) are different than hold cylinders for VT (1), see section 455-43. 2 hold cylinders for both QC and VT is what should be required

Response:
