CIDH Pile Installation Plan and Concrete Test Branch

All Cast-In-Drilled-Hole (CIDH) Piling
The Contractor is required to submit a Pile Installation Plan for all CIDH piling. A listing of the plan requirements is in the Standard Specifications (SS) and Special Provisions (SP)\(^1\); concrete mix design is one of the items. Reject the Pile Installation Plan if it is not complete, not appropriate, or not adequate for the site conditions and project requirements. Notify the Contractor in writing when the Pile Installation Plan is authorized.

CIDH Piling with Inspection Pipes and Testing
When inspection pipes and testing are required, additional items are required and these are listed in the specifications\(^2\).

The specifications\(^2\) require a concrete test batch for concrete to be placed under slurry. The Contractor must submit the Pile Installation Plan prior to producing the test batch, and at least 15 days prior to constructing piling. Verify that the placement time is consistent with the proposed mix design. Potential issues that should be addressed for placement of concrete under slurry are detailed in the *Foundation Manual*, Chapter 9, *Slurry Displacement Piles*.

Witness the Contractor’s testing of a batch of concrete. Receive the test batch results and review for performance, as well as consistency with the Pile Installation Plan. If the performance of the test batch and the Pile Installation Plan do not match, then reject the plan. The Contractor is required to revise the Pile Installation Plan (including the mix design) until the plan and the test batch results are consistent. If the mix design requires revision, then another testing of a batch of concrete is required.

For piling with inspection pipes and testing, send a copy of the authorized Pile Installation Plan and authorized mix design (including the approved test batch results) to the CIDH Pile Committee Chairperson.

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\(^1\) 2010 SS, Section 49-3.02A(3)(b), *Pile Installation Plan*, or 2006 SP

\(^2\) SS 2010, Section 49-3.02A(4)(c), *Concrete Test Batch*. or 2006 SP