

STANDARD SPECIAL PROVISION

Detail

Index or Category: Changes to Specifications Related

Sequence ID: 147

Version: A

Provision Name: a00147 CHANGES TO SPECIFICATIONS: SECTION 1001

Status: Pending

District: CO

Usage Information

Measurement: English-IP

Edit Body: No

Edit Header: No

Edit Project Specific Details: No

Instructions for Usage: For use on projects let on or before April 12, 2024.

408 Section: 1001

Effective From: 12/15/2023

To: 04/11/2024

Include on all projects: Yes

Include on all federally funded projects: No

Include on all 100% State funded projects: No

Associated Items

Item Number	Description
<i>No records found.</i>	

Header

CHANGES TO SPECIFICATIONS: SECTION 1001

Provision Body

SECTION 1001—CEMENT CONCRETE STRUCTURES

- **1001.3(k)4.a. Concrete Pump and Reduction Device. Revise to read as follows:**

4.a Concrete Pump and Reduction Device. Provide a concrete pump with a flexible end section at least 10 feet long equipped with a reduction device or combination of devices to provide a steady and continuous discharge. Devices that may be used include, but are not limited to, a combination of 90-degree angles, a tapered reduction hose, a slide gate, a 6-foot diameter loop in rubber hose, or a finger reducer. Prime the pump and line set using only grout material either prepackaged from a manufacturer listed in Bulletin 15 and mixed according to the manufacturer's instructions, or grout mixed as follows: one part cement, two parts fine aggregate, and enough water to provide the desired consistency for priming the pump and line set.

• **1001.3(k)4.b. Determining QC and Acceptance Testing Location. Revise to read as follows:**

4.b Determining QC and Acceptance Testing Location. The location of the QC and acceptance sampling will be determined daily on the first load of concrete, whenever the pump is relocated, and for every 200 cubic yards thereafter, by the following procedure:

- Provide a concrete mixture in conformance with specification requirements for slump, air content, and temperature before placement into the pump.
- Obtain a sample of concrete before placement into the pump and perform slump, air content, and temperature testing.
- Pump and waste enough material through the pump to ensure the grout used to prime the pump has been completely discharged from the system.
- Position the pump into the most severe vertical drop boom configuration anticipated during the placement. If using an extended slick line configuration, obtain the sample at the greatest distance from the pump that will be encountered during the placement.
- Obtain a sample of concrete at the discharge end of the pump and perform slump and air content testing.
- Compare the test results from the sample obtained before placement into the pump to the test results from the sample obtained at the discharge end of the pump to determine correlation.
- Correlation tolerances: ± 1.0 inch for slump and $\pm 2.0\%$ for air content.

If the test results for slump and air content are within the correlation tolerances, perform all QC and acceptance testing for slump and air content, including molding of the compressive strength cylinders, on material obtained before placement into the pump.

If the test results for slump and air content are not within the correlation tolerances, discard the sample and waste additional material through the pump to ensure the grout has been fully discharged from the system. Obtain a new sample at the discharge end of the pump and test for slump and air content, a maximum of one time only. If these test results still are not within the correlation tolerances, continue to perform the QC and acceptance testing for slump and air content before placement into the pump. However, the compressive strength cylinders must be molded from concrete obtained at the point of placement.

If more than one pump is utilized during a placement, each pump must comply with the above procedure.

Project Specific Details

Audit Information

Created By	Created On	Modified By	Modified On
Wendy M Smith/PennDOT	12/04/2023 01:10:20 PM	Wendy M Smith/PennDOT	12/04/2023 03:05:49 PM

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