February 3, 2011

REVISION OF SECTIONS 601, 606, 608, 609 AND 618

CONCRETE FINISHING

**NOTICE**

This is a standard special provision that revises or modifies CDOT’s *Standard Specifications for Road and Bridge Construction.* It has gone through a formal review and approval process and has been issued by CDOT’s Project Development Branch with formal instructions for its use on CDOT construction projects. It is to be used as written without change. Do not use modified versions of this special provision on CDOT construction projects, and do not use this special provision on CDOT projects in a manner other than that specified in the instructions unless such use is first approved by CDOT’s Standards and Specifications Unit. The instructions for use on CDOT construction projects appear below.

Other agencies which use the *Standard Specifications for Road and Bridge Construction* to administer construction projects may use this special provision as appropriate and at their own risk.

**Instructions for use on CDOT construction projects:**

Use on projects having any type of concrete construction

February 3, 2011

REVISION OF SECTIONS 601, 606, 608, 609, AND 618

CONCRETE FINISHING

Sections 601, 606, 608, 609, and 618 of the Standard Specifications are hereby revised for this project as follows:

Subsection 601.12 (a) shall include the following:

Water shall not be added to the surface of the concrete to assist in finishing operations.

Hand finishing should be minimized wherever possible. The hand finishing methods shall be addressed in the Quality Control Plan for concrete finishing. Hand finished concrete shall be struck off and screeded with a portable screed that is at least 2 feet longer than the maximum width of the surface to be struck off. It shall be sufficiently rigid to retain its shape. Concrete shall be thoroughly consolidated by hand vibrators. Hand finishing shall not be allowed after concrete has been in-place for more than 30 minutes or when initial set has begun. Finishing tools made of aluminum shall not be used.

The Contractor shall provide a Quality Control Plan (QCP) to ensure that proper hand finishing is accomplished in accordance with current Industry standards. It shall identify the Contractor’s method for ensuring that the provisions of the QCP are met. The QCP shall be submitted to the Engineer at the Preconstruction Conference. Concrete placement shall not begin until the Engineer has approved the QCP. The QCP shall identify and address issues affecting the quality finished concrete including but not limited to:

1. Timing of hand finishing operations
2. Methodology to place and transport concrete
3. Equipment and tools to be utilized
4. Qualifications and training of finishers and supervisors

When the Engineer determines that any element of the approved QCP is not being implemented or that hand finished concrete is unacceptable, work shall be suspended. The Contractor shall supply a written plan to address improperly placed material and how to remedy future hand finishing failures and bring the work into compliance with the QCP. The Engineer will review the plan for acceptability prior to authorizing the resumption of operations.

Subsection 606.04(a), second paragraph, shall include the following:

Hand finishing shall be performed in conformance with subsection 601.12(a).

Subsection 606.04(b), first paragraph, shall include the following:

Hand finishing shall be performed in conformance with subsection 601.12(a).

Subsection 608.03(d), first paragraph, shall include the following:

Hand finishing shall be performed in conformance with subsection 601.12(a).

Subsection 609.03 shall include the following:

Hand finishing shall be performed in conformance with subsection 601.12(a).

Subsection 618.11(f), first paragraph, shall include the following:

Hand finishing shall be performed in conformance with subsection 601.12(a).