The Contractor shall submit the following QC plan for cold weather placement of concrete as per the requirements of the special provision for Portland Cement Concrete.

### Section 1.

1. **Project Information**

Contract Number Route Mile Posts

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### Endorsement

This plan must be approved by the Contractor’s Quality Representative or Project Manager to comply with the plans, specifications and special provisions.

Print Name Title Company/Firm

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By checking this box and typing my name below, I certify this plan has been approved by the Contractor’s Quality Manager or Project Manager.

Signature Date

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### Section 2. Winter Protection

1. **Overview**

## Provide an overall strategy to conform to the winter protection requirements of the Portland Cement Concrete SP including temperature dependent protection and duration of protection.

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### Section 3. QC for Winter Protection

1. **Temperature Probes**

Provide a plan to install and utilize temperature sensors per the Portland Cement Concrete SP. Record the temperature readings and calculate the maturity values on the Illinois Tollway Testing Form (TTF) 011 Maturity – Field Data to estimate the strength of the in-place concrete. Report temperature sensor data in WBPM Documents – 03 Construction / 11 PC Concrete Mix Control / 07 Related Correspondence. Provide a schematic for installation location of temperature sensors.

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1. **Illinois Tollway Test Procedure (TTP) 014 Estimating Concrete Strength by Maturity or Field Cured Cylinders**
2. Provide documentation required by TTP 014 for Tollway Mix Designs.
3. Provide a plan when field cured cylinders are to be used for IDOT Mix Designs, during placements requiring cold weather protection that meets the Portland Cement Concrete SP. Include details including but not limited to the following:
4. Type of initial curing cylinder storage
5. Planned location and orientation of cylinders following initial curing to ensure field cylinders are cured in the same manner as the item
6. Ages (days) to be picked up and tested

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### Section 4. Corrective Action

## State scenarios in which the Contractor will implement their plan of corrective action as per the Portland Cement Concrete SP. Provide the plan of corrective action to address these scenarios. The plan may include, but is not limited to the following:

## Increase, reduce or add heat

## Alter the winter protection method

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