



SP 5.1-002 (2013)

Standard Specifications for Construction City of Waco 2013 Special Provision Section 5.1 Concrete and Reinforcement

October 6, 2022

The Standard Specifications for Construction City of Waco 2013
Section 5.1 Concrete and Reinforcement

Part 3: Execution

E. Placing Concrete

1. Weather Conditions

and

H. Concrete Curing

4. Hot-Weather Curing

5. Cold-Weather Curing

are hereby deleted and replaced in their entirety as follows effective for all City projects with bid opening date of December 1, 2022 and thereafter; Developer projects with preconstruction meeting date of December 1 and thereafter; and for right-of-way permits issued December 1 and thereafter to Permittees for work without a preconstruction meeting:

PART 3: EXECUTION

E. PLACING CONCRETE

1. Weather Conditions – Concrete shall not be placed when the air temperature is below 40°F and falling, but may be placed when the air temperature is 35°F and rising; the temperature being taken in the shade, away from artificial heat; and with the further provision that concrete shall be placed only when weather conditions, in the opinion of the Owner, are suitable. The minimum temperature of all concrete at the time of placement shall be not less than 50°F. The maximum temperature of Class C, F, H, X, Y and Z cast-in-place concrete used in bridge superstructures shall not be more than 85°F, at the time of

placement. Concrete diaphragms, parapets, concrete, portions of railings, curbs and sidewalks, unless monolithically placed with the slab, may not be subject to the preceding control if approved by the Owner in writing. Other portions of structures, when so noted on the plans shall require the temperature control specified hereon. All other concrete shall not be more than 95°F, at the time of placement.

Concrete placement shall not be permitted when impending weather conditions may result in rainfall or low temperatures, which shall impair the quality of the finished work. In case rainfall should occur after placing operations are started, the Contractor shall provide ample covering to protect the work. In case of a drop in temperature, the provisions set forth in *Item E.2, Placing Concrete Under Adverse Weather Conditions, of Section 5.1 Part 3* shall be applied.

a. Hot Weather Placing – In addition to the requirements above concrete must also meet the requirements of latest edition of ACI PRC-305.

b. Cold Weather Placing – In addition to the requirements above concrete must also meet the requirements of latest edition of ACI PRC-306.

PART 3: EXECUTION

H. CONCRETE CURING

4. Hot Weather Curing – In addition to the requirements above concrete must also meet the requirements of latest edition of ACI PRC-305 and ACI PRC-308 Section 3.7 - Hot-weather protection and curing.

5. Cold Weather Curing – In addition to the requirements above concrete must also meet the requirements of latest edition of ACI PRC-306 and ACI PRC-308 Section 3.6 - Cold-weather protection and curing.

Thomas M. Dahl
Thomas M. Dahl, P.E.