

Portland Cement Concrete Pavement

Project No: _____

Date: _____

Reviewer: _____

Time Elapsed: _____%

Work Completed: _____%

In Company With: _____

Specification Requirements (PCCP sheet 6)

Concrete Mix Temperature _____ °F max

Air Content _____% to _____% (6.0 " ± 1.5)

Slump _____ inches to _____ inches

W/C Ratio _____ gals/bags _____ lbs/lbs

Strength _____ psi (Min)

Flexural Strength (req.) _____ psi

Thickness _____ inches (over new base) (PCCP sheets 20 & 21)

Thickness _____ inches (over existing base) (PCCP sheets 20 & 21)

Note: "Portland Cement Concrete Pavement" (PCCP) sheets 1 - 22.

Plant Site

1. Which gradation was selected (PCCP sheet 2 & 3)?
 - a. Coarse aggregate
(check test results)
 - b. Fine aggregate
(check test results)
2. Are stockpiles neat and regular in form? Have the stockpiles been built for the quantity needed for a single day=s production for paving or elongated stockpiles from which the approximate tonnage required for a single day=s paving operation can be readily identified and marked off from the remainder of the stockpile (PCCP sheet 4)?
3. Have stockpiles been built two days in advance of the time they are to be used: Was it necessary to separate the coarse aggregates into two stockpiles (2" or 1 2A to No. 4B separate stockpiles) with a break at 3/4 inches (PCCP sheet 4)?
4. Has the air entraining agent been added at the mixer (PCCP sheet 5)?
5. Has the water source been approved (PCCP sheet 5)?

6. Has the project engineer approved the mix design (PCCP sheet 7)? Any changes to the mix design? If so, were they approved (PCCP sheet 7)?
7. Has a water reducing agent been included in the mix design? Has Pozzolan Type AF@ (Fly Ash) been included in the mix? What percent replacement? Is the fly ash coming from one of the UDOT approved sources (PCCP sheets 5 & 6)? Has it been pretested by the DOT?
8. Other fly ash sources must be approved by the project engineer. Have any other sources been used, or has the source of supply been changed during the life of the project (PCCP sheet 6):
9. In the batching process, has the cement been introduced before the fly ash (PCCP sheet 6)?
10. Are all concrete samples being taken from the trucks at the batch plant platform with a square mouth shovel (PCP sheet 7)?
11. Are the slump and air content tests being taken in accordance with the contract requirements (PCCP sheet 8)?
12. Have two flexure beams been cast for each day concrete is placed for the flexural strength tests (PCCP sheets 10, 13, and 19)?
13. Is the batch plant equipped with the numerical printout device that will make a continuous, permanent, and accurate record of the weights of cement, gravel, and sand as well as the amount of all water (including water and/or cement added after initial batching), and additives used in each batch of concrete with the time of day for each batch shown in hours, minutes, and seconds with daily accumulated totals (PCCP sheet 9)?

14. Has the contractor furnished telephones so the inspector on the platform can communicate with the batch plant operator (PCCP sheet 9)?
15. Are the trucks used to haul concrete from the batch plant to the paver flat bottom end dump trucks with essentially water tight end gates (PCCP sheet 9)?
16. Have the beams, scales, and water meters on the batch plant been checked and certified by the State Department of Agriculture (PCCP sheet 12)?
17. Has the concrete been mixed for 80 records after all the materials are in the drum? Based on efficiency tests using design mix materials, has the engineer approved a shorter mixing time not less than 60 seconds (PCP sheet 12)?
18. Is the mixing water diverted into two separate lines just prior to the insertion of water into the mixing drum? Has the air entraining agent been injected into one line and the water reducing admixture, if used, into the other water line (PCCP sheet 12)?
19. Has the concrete temperature always stayed below 90E F at the batch plant platform (PCCP sheet 19)?
20. Are the mixer drums and blades checked frequently during concreting operations for build-up of cement and mortar (PCCP sheet 12)?

Project Site

1. Has the base surface upon which the concrete is to be placed been kept moistened 500 feet in front of the paver without areas of standing water (PCCP sheet 10)?
2. Is the slip-form paver equipped with vibrators meeting the contract requirements (PCCP sheet 10)?

3. Is the discharge of mixed concrete from non-agitating hauling equipment and processing by the initial power lay down machine accomplished within thirty-five minutes after introduction of the mixing water to the cement and aggregates (PCCP sheet 12)?
4. Has the concrete been deposited in such a manner as to require as little re-handling as possible (PCCP sheet 13)?
5. Has any water been added to the surface behind the final screed on the paver (PCCP sheet 13)?
6. Have tie bars been used for all longitudinal joints and transverse contact joints (PCCP sheet 13)?
7. Has there been any delays in excess of thirty minutes in performing the preliminary finishing (PCCP sheet 16)?
8. Has a drag finish been completed with one trip (burlap or artificial turf drag)? Have the transverse grooves been properly placed (PCCP sheet 16)?
9. Has the transverse slump at the pavement shoulders outer one foot edge exceeded 2" in 1 foot before texturing and forming of rumble strips (PCCP sheet 18)?
10. Has the curing-sealing compound been applied to the entire pavement surface and exposed edges as soon as finishing operations have been completed at a rate of one gallon per 100 SF (PCCP sheet 18)?
11. Has the compound been applied to the entire pavement surface with mechanical sprayers? Spraying equipment shall be of the fully atomizing type (PCCP sheet 19)?
12. Has the edge slump requirement for longitudinal contact joints been met (1/8 inch in 10 feet for 200 feet before and through the contact joint) (PCCP sheet 14)?

Sawing & Sealing

1. Have the sawed joints been made with suitable power driver saws? Does the contractor have a minimum of two working power saws and one standby power saw on the project when concrete operations are underway (PCCP sheet 14)?
2. Are all joints immediately flushed with water after sawing (PCCP sheet 14)?
3. Has the sawing of the joints commenced as soon as the concrete has hardened sufficiently to permit sawing without excessive raveling (PCCP sheet 14)?
4. Have all joints been sawed within the following time schedule after the pavement is placed (PCCP sheets 14 & 15):

Transverse	1 st stage as soon as possible 2 nd stage not before 7 days
Longitudinal	As soon as possible

- 5.
6. Have the joints been thoroughly cleaned immediately after second stage sawing of all loose debris, cement power, etc., with a jet of water at 2,000 psi minimum pressure (PCCP sheet 15)?
7. Have the joints been blown with air at a minimum of 100 psi just prior to placing the backer rod (PCCP sheet 15)?
8. Have all the transverse joints been filled with a joint sealant and have all the longitudinal joints been filled with sealant? Do they have the proper clearance (PCCP sheets 15 & 16)?

General Notes

Check test results for the following:

1. Compressive Strength (PCCP sheets 6, 21, & 22)
2. Thickness (PCCP sheets 20 & 21).
3. Surface Smoothness (PCCP sheet 22).
4. Any Price Adjustments (PCCP sheets 20, 21, 22, & 23).