Diary Number: _____ Inspector Name: _____

TRACS Number: _____ Date: _____

Division IV: Surface Treatments and Pavements

Title: PCCP (Crack Repair)

Lot Number:	Station:
Lane Number:	Pour Number:
Date of Pour:	Location:

Attribute Numbers	Yes No N/A	Narratives	References
0.		Within the 28th day after placement,was a crack survey of the PCCP performed? Were all of the cracks located by station, off-set, and length? Was each visible crack drawn on the diagram? The crack survey is noted in a Daily Diary?	2021 Standard Specifications 401-4.03 (A) pg. 270 Construction Manual 401-4.03 pg. 401-19
1.		Was a copy of the cracks survey given to the Contractor expeditiously? (Typically the same day.)	Construction Manual 401-4.03 pg. 401-19
2.		Did the contractor submit a crack repair plan that was reviewed and approved by the Engineer?	2021 Standard Specifications 401-4.03 (A) pg. 270 Construction Manual 401-4.03 pg. 401-19
3.		Any cracks observed 28 days after the concrete placement, prior to final acceptance of the work, were repaired by the contractor?	2021 Standard Specifications 401-4.03 (A) pg. 271
4.		If applicable, was the repair cost shared by the department?	2021 Standard Specifications 401-4.03 (A) pg. 271
5.		Did the crack repair start within 7 days of the pavement survey, and completed within 30 days of the start of repairs?	2021 Standard Specifications 401-4.03 (B)(1) pg. 271 Construction Manual 401-4.03 pg. 401-19
6.		**With dowel assemblies:** Were the longitudinal cracks which occurred more than 54 inches from a longitudinal joint or less than 12 inches from a longitudinal joint repaired by routing-and-sealing method?	2021 Standard Specifications 401-4.03 (B)(2)(a) pg. 271
7.		**With dowel assemblies:** Are the transverse cracks in PCCP repaired by the epoxy-injection method after any immediately adjacent uncracked joints are deepened to 1/2 inch above the dowels?	2021 Standard Specifications 401-4.03 (B)(2)(a) pg. 271

8.		**Without dowel assemblies:** Were the longitudinal cracks which occurred more than 54 inches from a longitudinal joint or less than 12 inches from a longitudinal joint repaired by routing-and-sealing method?	2021 Standard Specifications 401-4.03 (B)(2)(b) pg. 271
9.		**Without dowel assemblies:** When a transverse crack crosses or terminates in a transverse contraction (expansion) joint, the uncracked portion of the joint shall be filled with an approved gray colored epoxy and the crack shall be repaired by the routing-and-sealing method?	2021 Standard Specifications 401-4.03 (B)(2)(b) pg. 271
10.		**Without dowel assemblies:** When a transverse crack in PCCP parallels and is within 5 feet of an uncracked contraction (expansion) joint, the uncracked joint is cleaned and filled with an approved gray epoxy?	2021 Standard Specifications 401-4.03 (B)(2)(b) pg. 271
11.		**Without dowel assemblies:** When a transverse crack is more than 5 feet from a transverse joint, either cracked or uncracked, the joint shall be re-sawed and resealed as originally specified, and the crack shall be repaired by the routing-and-sealing method?	Standard Specifications 401-4.03 (B)(2)(b) pg. 271
12.		Cracks occurring within the wheel paths that are considered unrepairable, along with the damaged pavement, are removed and replaced?	2021 Standard Specifications 401-4.03 (B)(2)(c) pg. 272
13.		When routing-and-sealing crack repair is required, the top of the crack was routed to a depth of at least 3/4 inch and to a width of not less than 3/8 inch or more than 5/8 inch wide?	2021 Standard Specifications 401-4.03 (B)(3)(a) pg. 272
14.		Are the routing machines capable of closely following the crack and widening the crack without spalling or damaging the concrete further?	2021 Standard Specifications 401-4.03 (B)(3)(a) pg. 272
15.		Was the loose or fractured concrete removed and routed cracks were thoroughly cleaned and sealed with an approved gray silicone sealant?	2021 Standard Specifications 401-4.03 (B)(3)(a) pg. 272
16.		When epoxy-injection crack repair is specified, Have cracks been pressure injected with an approved gray colored epoxy?	2021 Standard Specifications 401-4.03 (B)(3)(b) pg. 272
17.		Has the pressure injection of epoxy been done only between the hours of 11:00 pm and 7:00 am?	2021 Standard Specifications 401-4.03 (B)(3)(b) pg. 272
18.		Is portland cement concrete pavement, having cracks not repairable, removed and replaced as directed by the Engineer?	2021 Standard Specifications 401-4.03 (C) pg. 272
19.		Cracked pavement was removed and replaced to the limits established by the Engineer?	2021 Standard Specifications 401-4.03 (C) pg. 272

20.		Slabs containing a single diagonal crack intersecting the transverse and longitudinal joints within 1/3 of the width and length of the slab from the corner were repaired by removing and replacing the smaller portion of the slab?	2021 Standard Specifications 401-4.03 (C) pg. 272
21.		Pavement containing multiple cracks through the full depth of the slab, separating the slab into three or more parts, was entirely removed and replaced?	2021 Standard Specifications 401-4.03 (C) pg. 272
22.		Excessively cracked pavement has been removed and replaced over the full pavement width?	2021 Standard Specifications 401-4.03 (C) pg. 272
23.		Pavement to be removed is cut full-depth prior to removal. Were four inch full depth cores drilled at the corners of the pavement to minimize over-cutting?	2021 Standard Specifications 401-4.03 (C) pg. 272
24.		Was the base material which is damaged as a result of pavement removal repaired or replaced by the contractor?	2021 Standard Specifications 401-4.03 (C) pg. 272
25.		Has the removed pavement and base material been disposed of by the contractor?	2021 Standard Specifications 401-4.03 (C) pg. 272
26.		After removal of cracked pavement, specified dowel bars were placed by drilling and anchoring using an approved epoxy at mid-depth of the existing concrete slab?	2021 Standard Specifications 401-4.03 (C) pg. 272
27.		When replacing pavement at longitudinal construction joints; epoxy coated smooth dowels are 24 inches long, 5/8 inch in diameter and spaced at 30 inch centers?	2021 Standard Specifications 401-4.03 (C) pg. 273
28.		When replacing pavement at transverse construction joints; load transfer dowels are epoxy-coated, 24 inches long by 1 1/2 inches in diameter and spaced at 12 inch centers?	2021 Standard Specifications 401-4.03 (C) pg. 273
29.		Are epoxy coated, smooth dowel bars placed in construction joints that match existing TWP joints? (dowels are 24-inch long, 1 1/2 inches in diameter, placed at distances of 6, 24, 42, 90, 117, and 135 inches from the adjacent longitudinal joint which is nearest to the outside shoulder)	2021 Standard Specifications 401-4.03 (C) pg. 273
30.		Is the replacement concrete finished and cured in accordance with the requirements specified for the original pavement?	2021 Standard Specifications 401-4.03 (C) pg. 273
31.		Quantlist Minimum Frequency is being followed. One per week.	Construction Bulletin 07-01