

Pavement & Materials Partnering Committee (PMPC)

Working Group Meeting

Precast Pavement – Phase II Enhanced Jobsite Quality

Meeting Minutes #1: PMPC Precast Concrete Pavement (PCP) Working Group

Date: February 19, 2019

Time: 1:30 PM – 3:30 PM

Location: 13230 E Firestone Blvd, Santa Fe Springs, CA 90670

Working Group Membership

<u>CT/Industry</u>	<u>Division/Firm Name</u>	<u>Name</u>	<u>Attendance</u>
CT Chair	Maintenance/HQ Pavement	Dulce Rufino Feldman	Yes
CT	District 7 – Maintenance	Deborah Wong	No
CT	District 4 – Materials	Tinu Mishra	No/covered by Dulce
CT	District 7 – Construction	Mike Wang	Yes
Industry Lead	ProCast	Warren Taylor	Yes
Industry	Jensen Precast	Arshad Vali	Yes
Industry	Flatiron	George Butorovich	Yes
Industry	Baltazar Construction, Inc	Baltazar Siqueiros	No
Industry	PCI West	Ruth Lehmann	Yes
CT	METS – QASI LA	Divyesh Vora	Yes

Minutes

Background Discussion

- Restructure of the RPC to PMPC
- Create Risk Register draft and prioritize list of risk items
 - Improve specifications and guidance documents (installation guide, shop drawings review guide) to provide more consistency
- Phase 1 Report feedback: did not completely capture concerns, however additional efforts from METS and Pavement program collected good amount of useful data

Risk register items list discussed during the meeting:

1. LCB or base replacement, quantities and requirements for random vs continuous replacement
2. Number of working days or working days window: identify estimated timelines for each sub-function (prep, existing PCP removal, PCP replacement, etc)
3. Grinding PCP after placement
 - a. Grinding new PCP panel after replacement
 - b. Separate Bid Item for grinding (quantify per square yardage, yd²)
 - c. Add quarter inch, ¼”, to each to each panel size

Pavement & Materials Partnering Committee (PMPC)

Working Group Meeting

Precast Pavement – Phase II Enhanced Jobsite Quality

- d. Time of grinding prior to opening to traffic vs end of job
- 4. Alternative Design / Restriction
 - a. 16 feet length as typical guideline for joints and panel sizes
 - b. Difference between continuous vs random PCP replacement
 - c. Design criteria for edge reinforcement, tolerances, and better account for pre-stressing
 - d. Load transfer: e.g. provide top slot taper as mechanical joint to provide better transfer and contain grout material
 - e. Loading on large panel, especially while supported on shims or bolts, restrictions on crane operations
- 5. Installation Guide
 - a. Implement Guide (Manual, checklist) as general parameter; not to be prescriptive
 - i. Could use Chapter 8-11 JPCP of NPCA Manual as template for installation guide
 - b. Provide more guidance for JITT
 - c. Contractor QC plan to be reviewed for some of the best practices
- 6. Section 40, 41 elimination of redundancy and updating of nomenclature
 - a. Section 40 Concrete Pavement
 - b. Section 41 Existing Concrete Pavement
 - c. Precast Concrete Pavement – “PCP”
- 7. Underslab grout material
 - a. Provide design criteria for low-transfer strength grout
- 8. Longitudinal joint filler material
 - a. Isolation joint need?
 - b. In addition to isolation, filling joint with grout even under ¾” to ensure sealing of gap and prevent erosion from water
 - c. Masonite or other thin material for separation
- 9. Transverse joints between PCP panels
 - a. Is there a need?
 - b. Filling material agreement
 - c. Filling requirement and application: about every 200’?, sawcut, fill with grout

Action Items:

- 1. **Caltrans:** Send out summary of risk issues to all members by March 5th
- 2. **Everyone:** Send feedback comments by March 19th