There was a significant improvement in IC and PMTPS data management and analysis efforts by contractors from 2017 to 2019. The thermal segregation continually improved from 2017 to 2019, according to AASHTO PP80 definitions of thermal segregation. There was also a significant improvement in IC coverage from 2018 to 2019. 2018 had the lowest IC coverage. This is attributed to a contractor learning curve due to limited on-site support in 2018. By 2019 contractors had significantly fewer challenges with data acquisition and analysis.

MoDOT is moving forward with the implementation of IC and PMTPS technologies. Based on the 2017-2019 projects and lessons learned, recommendations for future implementation include continual training for contractor and MoDOT personnel, development and implementation of a IC technician certification program, development and implementation of QA procedures to validate contractor data, investigation and piloting of additional intelligent construction technologies to further develop MoDOT’s intelligent
construction program, investigating and piloting equipment to collect boundaries for IC coverage at traffic speed, continual participation in the Transportation Pooled Fund Study, and continual and future performance tracking of IC and PMTPS projects.

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**Project Information**

**PROJECT NAME:** TR201902—IC-IR
Consultant Contract-Phase 3

**PROJECT START/END DATE:** July 1, 2018-January 31, 2020

**PROJECT COST:** $199,852

**LEAD CONTRACTOR:** Transtec Group, Inc.

**PRINCIPAL INVESTIGATOR:** Dr. George Chang, P.E.

**REPORT NAME:** Consultant Support for IC-PMTPS Projects

**REPORT NUMBER:** cmr 20-005

**REPORT DATE:** May 2020

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