



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-CM
Indianapolis, Indiana 46204

Eric Holcomb, Governor
Michael Smith, Commissioner

March 10, 2022

CONSTRUCTION MEMORANDUM 22-01

TO: District Deputy Commissioners
District Construction Directors, Area Engineers, Project Engineers/Supervisors
Division of Materials and Tests
District Project Management Directors
District Technical Services Directors
District Traffic Engineers
District Testing Engineers
District LPA Coordinators

FROM: Gregory G. Pankow, Chief Engineer of Construction
Division of Construction Management and District Support

SUBJECT: IRI Implementation for CY 2022

SUPERSEDES: Construction Memorandum 21-02

The Department continues to utilize IRI for smoothness on a pilot basis using a Special Provision. RSP 401-R-577 is being used for HMA and a Unique Special Provision for PCCP. The current version of the latter can be obtained from a Construction Management Field Engineer. Full implementation is anticipated for the 2023 construction season. Information for the implementation of IRI can be found on the Department's website. This information includes guidance for project personnel for data analysis, guidance for handling areas of localized roughness (ALR), payment adjustment spreadsheets, and certified inertial profilers and operators.

Contractor requests to incorporate the Special Provision into an active contract will be allowed and no longer require pre-approval by the State Construction Engineer. A no-cost change order will need to be prepared.

For a profilograph contract, project personnel may approve requests by Contractors to use a certified inertial profiler to collect smoothness data in profilograph mode on an HMA intermediate or surface course. No change order will be required for these requests. These requests change the method of collecting the smoothness data and the way in which analysis is performed. The Department's website provides an IRI Field Guide for Profilograph Simulation when this option is selected. Smoothness correction and smoothness pay adjustments remain in accordance with the contract documents for profilograph. The requirements of ITM 917 should be reviewed and followed when inertial profiler operator and equipment arrive onsite to verify the accuracy and reliability of the equipment.

Regardless of the mode of analysis (IRI or Profilograph) all document files collected by the inertial profiler and all files utilized for analysis and payment shall be submitted to the Project Engineer/Construction Project Manager/Project Supervisor (PEMS). Beginning with contracts let in December 2021 and thereafter, the PEMS

will upload all files submitted by the Contractor and all files created by the Department during analysis and payment in the Intelligent Filing Cabinet system on ProjectWise. After receiving files from the Contractor, the PEMS should upload the completed files into ProjectWise within 7 days. The “ProjectWise for Construction User Guide” requires smoothness files to be placed in the “Working Documents” folder of the Intelligent Filing Cabinet.

After placement of files in the Intelligent Filing Cabinet, the PEMS will then be required to fill out the “IRI Data Submission Form” by selecting the link with this title on the Department’s website (<https://www.in.gov/indot/div/construction.htm>) under the section titled “IRI Information”. This survey form is only required when the data files are for PCCP or HMA surface. For contracts that have surface course and smoothness data collection completed in phases, this form should be submitted for each phase when new data is placed in the intelligent Filing Cabinet. The information on this form will be utilized to inform INDOT Research of smoothness measurement on each contract, or portion thereof. INDOT Research will perform Quality Assurance reviews on selected contracts each construction season.

Any questions should be directed to your Construction Management Field Engineer.

GGP/jjn/jtb