
Update: FY 2019 Special Provisions for State Aid Projects

Rev. 1 March 2020

This document's objective is to summarize and explain the updated FY 2019 Revision 1 Special Provisions for State Aid Projects for municipal engineers, contractors, and technicians. The Special Provisions for State Aid Projects has been revised in response to the update of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction 2019 from the previous 2007 version. Please refer to this document to when updating Local Aid projects' specifications, testing, and certifications for the rollout of any project using Local Aid funding grants. All new forms referenced in this document can be found on the [forms subsection](#) of the Local Aid and Economic Development/Grants section of the NJDOT website.

Hot Mix Courses –Air Void and Thickness Requirements

- The location of cores taken for testing must be randomized. A new form, HMA Core Sampling Plan, has been created in a .xlsx format to randomize coring locations.
- The reduction in payment for nonconformance to air void requirements methodology has been altered. The reduction in payment to the HMA line item was formerly a tiered penalty based on how poorly the average air voids percentage exceeded the acceptable air voids percentage range. The new reduction in payment to the HMA line item is a tiered penalty based upon how much of the HMA installed does not conform to the acceptable air voids percentage range. The former penalty system judged HMA based on how far outside the acceptable range of air voids the HMA tested for; the new penalty system judges based on how much of the HMA conforms to the air voids requirements. This change corresponds to section 401.03.07.H of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction 2019.
- A new form for the calculation of the reduction in payment for nonconformance to air void requirements and thickness penalty has been created. Form DS8S-PD titled, Hot Mix Asphalt Penalty Determination, is available as a .xlsx file. This form is to be used by asphalt testing laboratories to calculate the reduction in payment for nonconformance to air void requirements and thickness penalty. The form must also be signed by the municipal/county engineer in charge of the project.
- Further technical questions about how the air void reduction in payment can be answered by our [Guidance Document on Air Void Reduction in Payment](#).

International Roughness Index (IRI)-Ride Quality

- The ride quality requirements for HMA have been updated. The pay adjustment equations for HMA's ride quality requirements have been updated to correspond to different international roughness index (IRI) values as a measure of smoothness. The pay equations now factor in additional elements such as bid price of milling, number of lifts, and design thickness of pervious lifts. Any Local Aid construction project located on the National Highway System (NHS) OR New Jersey State Highways shall comply with ride quality requirements. These ride quality requirements correspond to section 401.03.07.J of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction 2019.
- There are FHWA requirements for IRI testing on the Interstate System and the National Highway System (NHS) in 23 CFR Part 490. To read a summary of those regulations, please see our [Federal Highway Administration International Roughness Index \(IRI\) Testing Mandate Summary](#).
- Inquiries about IRI data for paving routes designated NHS or NJDOT jurisdiction can be made available by request by contacting Simon Nwachukwu at Simon.Nwachukwu@dot.nj.gov
- An IRI Testing Summary Report form has been created to standardize the penalty and reporting process. The testing agency performing IRI testing must use this form to report ride quality assessments and

penalties to the Local Public Agency receiving any Local Aid grant funds. The testing agency's technologist must sign off on the form, as well as the municipal/county engineer.

Sampling and Testing

- A new DS-8 form titled, HMA Testing Summary Report – State Aid, has been created to address the sampling and testing requirements for HMA in section 902.02.04 of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction 2019. This new DS-8 form replaces the use of any older versions of the DS-8 form. New additions to the DS-8 form include: voids in mineral aggregate; dust-to-binder ratio; and asphalt content. Asphalt testing laboratories are to use this form to fulfill sampling and testing requirements for HMA when working on projects utilizing Local Aid funding grants. The form must also be signed by the municipal/county engineer in charge of the project.
- A new Certification of Compliance form is available as a .docx file. Alternatively to the DS-8 form, the New Jersey Department of Transportation may accept the certificate of compliance to fulfill the sampling and testing requirements for HMA set forth in section 902.02.04 of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction 2019. The certificate of compliance conforms to section 106.07 of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction 2019.