



## 2018-2019 HMA Level I Update

### Specification and IM Changes

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### IM 213

- No longer requires the HMA Level I certified technician to attend two updates during the 5 year certification period in order to apply for recertification. Updates will continue to be offered and web updates are still available.

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### IM 213

- I.M. 213 discusses the Unsatisfactory Notice that Certified Technicians are given when they are not performing their job duties satisfactorily the technician is given one written notice, the second notice is three-month certification suspension, and the third notice is decertification. **According to I.M. 213 the Certified Technician can automatically be decertified for false statements without going through the Unsatisfactory Notice procedure.**

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## FEDERAL CODE 1020 and IOWA CODE 714.8

- The Certified Technician also needs to be aware of the false statement clause that is applicable to all federal-aid projects and the fraudulent practice clause that applies to all non-federal aid projects. **Certified Technicians need to read and be aware of U.S.C. 1020 and Iowa Code 714.8 since these do apply to them.**

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## FEDERAL AID PROJECTS

- IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS**
- Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law.**

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## NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS 18 U.S.C. 1020

- “Whoever knowingly makes any **false statement or false representation** as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented; **Shall be fined not more than \$10,000 or imprisoned not more than 5 years or both**”

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## NON-FEDERAL AID PROJECTS

- Iowa Code 714.8, subsection 3, defines **fraudulent practices**. "A person who does any of the following acts is guilty of a fraudulent practice. Subsection 3, Knowingly executes or tenders a false certification under penalty of perjury, false affidavit, or false certificate, if the certification, affidavit, or certificate is required by law or given in support of a claim for compensation, indemnification, restitution, or other payment." **Depending on the amount of money claimed for payment, this could be a Class C or Class D felony, with potential fines and/or prison.**

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## Standard Specification Article 1102.03, paragraph C. section 5

- "A contractor may be **disqualified from bidder qualification** if or when: The contractor has **falsified documents or certifications**, or has **knowingly provided false information** to the Department or the Contracting Authority."

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## Spec 2303

There has been confusion on the use of Table 2303.03-5 Uncompacted Mixture Sampling

Estimated Daily Production, Tons Number of Samples

101-500	1
501-1250	2
1251-2000	3
2011-4500	4
over 4500	5

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### Spec 2303

- Table 2303.03-5 indicates the number of samples required based on the amount of mix to be produced.
- **It does not show the size of the sample subplot.**
- **The subplot size is determined by dividing the expected production tonnage by the number of samples indicated in the table.**

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### Spec 2303

- **Film thickness price adjustment table in 2303.05,A,3,c has been corrected.**

Placement	Pay Factor	
	(Low Film (FT<LL))	(High Film (FT>UL))
Base/Shoulders	$1-(0.15*(LL-FT))$	$1-(0.15*(FT-UL))$
Intermediate	$1-(0.20*(LL-FT))$	$1-(0.20*(FT-UL))$
Surface	$1-(0.25*(LL-FT))$	$1-(0.25*(FT-UL))$

LL=Lower Limit      UL=Upper Limit

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### Spec 2303

1. When basis of payment is by area, add 1.0 to the pay factor (computed above) and divide by 2.0
2. For  $FT < 7.0$  or  $FT > 16.0$ , the Engineer may consider the lot defective. This applies to all lots (days) of production.
3. No film thickness price adjustment for the test strip (first day of production, if no test strip performed) for each job mix formula.
4. No film thickness price adjustment on temporary pavement

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### Spec 2303

- 2303.02, E, 1, Tack Coat
- CQS-1 and CQS-1H emulsion grades have been added as approved materials for use as tack.
- These grades are also approved for use as fog seal in spec 2306.02

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### Spec 2318 Cold-In Place Recycling

- The temperature limits in the CIPR spec have been changed.
- The limit on the ambient daytime temperature to perform CIPR has been changed from 60 degrees F. to 55 degrees F.
- This also applies to night work if the NWS temperature forecast for the next day is at least 55 degrees F. and is expected to remain above 35 degrees for the next 24 hours.

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### Spec 2318 Cold-In Place Recycling

- The curing requirements before placing the surface over the CIPR have been changed.
- The 2.5% moisture content limit has been changed to 3.5%.
- If the moisture content is 5.0% and has remained constant within  $\pm 0.3\%$  for a minimum of three days.
- If the CIPR layer has been completed for 21 days.

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Iowa Department of TRANSPORTATION

## IM 208 Independent Assurance Program

- Contractor's technicians who regularly perform testing need to obtain a proficiency sample from the District Lab in April and report results by May 15th.
- If not done in April, the technician needs to obtain a proficiency sample and test it before beginning testing on a project.
- IM 207 contains details on responsibilities.

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## IM 325G

### Gyratory Compaction

- Oven temperatures
- When testing HMA the maximum oven temperature is 290°F
- When testing WMA the oven temperature must be 240±5°F
- Will help prevent overheating and uneven heating of samples

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## IM 350

- Auto-Rice equipment is now being allowed for use on projects.
- Allows unattended testing for a portion of the test for Gmm.
- Allows the use of the bowl method for weighing the pycnometer.
- Trial testing shows good correlation with the DOT method.

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## Asphalt Binder

- The use of PG 58-34 grades for standard paving mixtures in northern Iowa is no longer recommended for design.

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## Asphalt Binder

- The use of PG 58-28H is now allowed for:
  - Detour Pavement
  - Full Depth Finish Patches
  - Partial Depth Finish Patches

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## Spec 4137 Asphalt Binder

- Binder used in High Performance Thin-Lift Overlay.
- Currently, PG 58-34E+ is specified and the binder must achieve a minimum of 90% recovery at 58° C in the MSCR test.
- The specification will be changed in 2019 to require PG 64-34E+ and 90% minimum recovery and may be changed in the contract documents or by EWO prior to the spec change.

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## Spec 4127 Aggregate for Flexible Paving Mixtures

- Coarse Aggr. Quality Table 4127.02-1 has been modified
  - The maximum Alumina value has been raised to 1.0
  - The maximum A Freeze loss has been raised to 15%
  - The maximum clay lumps and friable particles has been raised to 2.0%

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## DS 15066 High Performance Thin-Lift overlay

- The target voids for mix design has been clarified to  $\leq 2.0\%$
- The VMA requirement has been eliminated.

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## SS 15010 Hot Mix Asphalt Interlayer

- Sampling of the uncompacted mix is to be done from the windrow or from the paver hopper.
- Cold feed gradation testing is to be done a minimum of once per day.

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## Commercial mixes

- ST mixes or better are required
- PG 58-28S or PG 64-22S must be used

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## e-Tickets

- The use of e-tickets has been tried on selected projects.
- e-tickets allow tracking of trucks from load-out to laydown using GPS transponders.
- May eliminate the need to gather truck tickets at the project site when scale readings are integrated into the system.

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## Bar Code Sample ID

- The use of bar codes to identify samples is being used on state projects.
- Allows electronic transfer and logging of sample information.
- Planned to be used for all samples submitted to Dist. Labs.

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## Doc-Express

- Submission of project documentation is now required to use Doc-Express.
- Training on the use of Doc-Express is available.

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## Software

- A new spreadsheet has been developed called "Field Report" that will contain the quantities placed for pay and other field data.
- Information will be imported into the plant report program.
- Will eliminate the need for so many corrected reports.

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## Software

- The Plant Report and Charting software is being updated to accommodate the changes discussed.
- It is **essential** that the letting date be entered correctly in the software to be sure the correct specs are applied.

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