2019 ANNUAL PAVING CONTRACT

SPECIFICATION CHANGES

Virginia Asphalt CONFERENCE & EXPO, December 5 2018

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MATERIALS

SPECIFICATION CHANGES
2019 Specification Changes

• SP 211: AC Bonus
• SP 315: Method A Density Bonus
• SS 210: Binder Spec and MOI Chapter II
• SS 248: SMA Permeability
• SS 315: WMA on Ticket & Limited Quantity
• SS 211: All Superpave mixes at 50 gyrations
• SS 310: Referee System for Tack
SP211: AC Variability Bonus

• AC Standard Deviation 0.0 – 0.15
• No Adjustments on Gradation (Table II-16)
• **Average Production AC** (additional requirement) should be,
  - No less than 0.1% below MD AC%
  - No more than 0.2% above MD AC%

5.4% ➔ 5.5% ➔ 5.7%
SP315: Method A Density Bonus

- Primary and Secondary over **2,000 ADT** with 20+ ft width
- Pay adjustment Table III-4A for Core (III-4B for Nuclear Gauge)

<table>
<thead>
<tr>
<th>% TMD</th>
<th>% of Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greater than 96.5</td>
<td>95</td>
</tr>
<tr>
<td>92.2^1/92.5^2 – 96.5</td>
<td>100</td>
</tr>
<tr>
<td>90.0 – 92.1^1/92.4^2</td>
<td>95 90</td>
</tr>
<tr>
<td>88.0 – 89.9</td>
<td>90 80</td>
</tr>
<tr>
<td>Less than 88.0</td>
<td>75</td>
</tr>
</tbody>
</table>

- Match Table III-4 (Failed CS) to III-4A
  - 80% cores need to pass.
  - No bonus for HMHB mixes.
SS315: Density for Small Quantity

- Strengthen the Requirements
  - Not enough to run roller pattern & control strip with less than 3,500 ft
  - Core/Plug for first 500 ft, then every 1,000 ft (instead of tonnage based)
  - Min. Density: 92.5% (92.2% for IM, BM) for 100% pay
  - Pay Adjustment: Table III-5

<table>
<thead>
<tr>
<th>% TMD</th>
<th>% of Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greater than equal to 92.2 / 92.5</td>
<td>100</td>
</tr>
<tr>
<td>90.2 - 92.1 / 92.4</td>
<td>95 90</td>
</tr>
<tr>
<td>88.3 - 89.9</td>
<td>90 80</td>
</tr>
<tr>
<td>Less than 88.2</td>
<td>75</td>
</tr>
</tbody>
</table>
SS210: Binder Spec Reorganization

• Revising Spec 210 to move VAAP related items to MOI

• Discussed in VAAP meeting with binder suppliers

• Clarify PG64S & PG 64H don’t require elastic recovery.
SS248: SMA Permeability

• Production permeability test eliminated for SMA
  – Eliminated from 211 and SP315 (4.75 mix) last year

✓ Minor Change: 76-22 to 64E-22 at Note under Table II-24
SS315: WMA on Ticket

• Identification of WMA on Delivery Ticket
  – Many Contractors are already Implementing

• Under 315.04(a) AC Produced with WMA

  “3. The Contractor shall specify Warm Mix Asphalt on the delivery ticket”
SS211: 50 Gyration MD for IM & BM

- Now, All Superpave Mixes Designed by 50 gyrations.
  - With volumetric changes

<table>
<thead>
<tr>
<th></th>
<th>Design Air Voids</th>
<th>VFA (%)</th>
<th>VMA (%)</th>
<th>FA Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM-19.0A/D</td>
<td>4.0%</td>
<td>64 - 83</td>
<td>14.0</td>
<td>0.6-1.3</td>
</tr>
<tr>
<td>IM-19.0E</td>
<td>3.5%</td>
<td>64 - 83</td>
<td>14.0</td>
<td>0.6-1.3</td>
</tr>
<tr>
<td>BM-25.0</td>
<td>2.5%</td>
<td>67 - 92</td>
<td>13.0</td>
<td>0.6-1.3</td>
</tr>
</tbody>
</table>

- Contractors submit the copy of burn tickets (retain 5 years).
SS310: Referee System for Tack

- 10% Penalty on Bond St. Failure -> Remove & Replace
  - Cores: 5 for Shear Strength / 5 for Tensile Strength (VTM-128)
OTHER

SPECIFICATION CHANGES
Other Specification Changes

- **SPCN Section 108.02(d) Railway Right-of-Way:**
  
  - Last year’s spec. will be replaced by the SPCN used on 2016 and 2017 Schedules

  “The Contractor shall not perform work within 10 feet of Railway right-of-way until the Engineer notifies the Contractor in writing that a Right of Entry or Railroad Agreement between the Department and the CSXT, Buckingham Branch or Norfolk Southern for work within the temporary and permanent easements is executed. “
Other Specification Changes

• Sp704-000100-03: Pavement Markings and Markers
  – Reference to pavement Marking “Bonus” removed

• Section 317.08: Vibratory rollers passes
  – The language pertaining to the number of vibratory passes changed from “Shall” to “Should”
  “…If the contractor elects to use a vibratory roller, the mat should receive not more than three vibratory passes…”
Specification Changes in Development

• Portable Temporary Rumble Strips
  – Will establish requirements as per IIM-TE-386.1
  – Will be required for flagging operations on two lane roadways that exceed three hours.
  – The specification is still in development, details such as method of payment are still being finalized.
  – The specification will be included in all advertised projects effective July 2019.