Beginning in October of 2016, the Iowa DOT will be changing the nomenclature and recommended asphalt binder grades for Iowa’s roadways. In addition, the current ESAL mix design levels will have new N design levels and nomenclature under the new specifications. The following handy reference guide will provide guidance on the new classifications and the new bid items developed by the Iowa DOT.

### ASPHALT MIXTURE

<table>
<thead>
<tr>
<th>Design Traffic (1 X 10^6 ESALS)</th>
<th>Mix Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 1 M</td>
<td>ST</td>
</tr>
<tr>
<td>1-10 M</td>
<td>HT</td>
</tr>
<tr>
<td>&gt;10 M</td>
<td>VT</td>
</tr>
</tbody>
</table>

### PG BINDER

<table>
<thead>
<tr>
<th>Design Traffic (1 X 10^6 ESALS)</th>
<th>Design Speed (MPH)</th>
<th>Class I Projects</th>
<th>Class II Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 1 M AND/OR  &gt;45</td>
<td></td>
<td>58-28S</td>
<td>58-28S</td>
</tr>
<tr>
<td>1-10 M AND/OR  15-45</td>
<td></td>
<td>58-28H</td>
<td>58-28H</td>
</tr>
<tr>
<td>&gt;10 M OR  &lt;15</td>
<td></td>
<td>58-28V</td>
<td>58-28V</td>
</tr>
<tr>
<td>&gt;10 M AND  &lt;15</td>
<td></td>
<td>58-28E</td>
<td>58-28E</td>
</tr>
</tbody>
</table>

S = Standard  H = High  V = Very High  E = Extremely High

**CLASS I PROJECTS:** Full Depth Hot-Mix Asphalt  |  HMA + Cold-in-place Recycling  |  HMA + Rubblization  |  HMA + Crack and Seat  
HMA Overlay >4”  |  HMA + Full Depth Reclamation (FDR)

**CLASS II PROJECTS:** Overlay ≤ 4”  |  Parking Lot  
Secondary  |  Trails

**Link to IDOT New Binder Designation Webinar:**  
**STEP-BY-STEP BID ITEM CONSTRUCTION**

**STEP 1. SELECT NOMINAL MAX. AGGREGATE SIZE.**
- 3/8” (Thin lifts, Trails and Tennis Courts)
- 1/2” (General Surface and Intermediate Mix)
- 3/4” (General Base Mix)

**STEP 2. DETERMINE TRAFFIC LEVEL**
- Standard Traffic (ST) <= 1M ESALs
- High Traffic (HT) 1M – 10 M ESALs
- Very High Traffic (VT) > 10M ESALs

**STEP 3. CHOOSE LIFT DESIGNATION**
- Base
- Intermediate
- Surface

**STEP 4. CHOOSE THE APPROPRIATE BINDER**
- Check location and use the chart on front of this card

**BID ITEM EXAMPLE**
HMA Standard Traffic (ST) Surface, 1/2”, PG 58-28S

**EXAMPLE COMPARISON FOR PG XX-28**

<table>
<thead>
<tr>
<th>CURRENT PG</th>
<th>AFTER OCT 2016</th>
<th>BINDER BUMP FOR RAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>58-28</td>
<td>58-28 S</td>
<td>52-34 S</td>
</tr>
<tr>
<td>64-28</td>
<td>58-28 H</td>
<td>52-34 H</td>
</tr>
<tr>
<td>70-28</td>
<td>58-28 V</td>
<td>52-34 V</td>
</tr>
<tr>
<td>76-28</td>
<td>58-28 E</td>
<td>52-34 E</td>
</tr>
</tbody>
</table>

**ADDITIONAL INFORMATION**

**USE “S” BINDER AT DEPTHS > 4”**

**HMA INTERLAYER BID ITEMS**
- MIX = HMA Interlayer Base Course, 3/8”
- BINDER = PG 58-34 E

**HIGH PERFORMANCE HMA THIN LIFT BID ITEMS**
- MIX = HMA Thin Lift Surface Course
- BINDER = PG 58-34 E (90% Min Recovery)

**SHOULders PAVED SEPARATELY**
- HMA ST Base Course, 1/2”
- PG 58-28 S

**WIDENING**
- HMA ST Base Course, 1/2” or 3/4”
- PG 58-28 S

**PATCHING**
- Any 1/2” or 3/8” MIX
- PG 64-22 S

**COLD-IN-PLACE RECYCLING**
- PG 52-34 S