Memorandum

To: e-distribution  
see listing below

From: James A. Combs, P.E.  
Highways Engineer

Date: June 26, 2019

Subject: New Plant Mix Items for Miscellaneous Paving

In recognition of the reduced production rates and increased labor associated with miscellaneous paving operations, MDT will start measuring and paying for these plant mix quantities separate from mainline paving for most non-interstate projects. For projects that have paid quantities of both mainline roadway plant mix and miscellaneous paving of the same material, use the following bid items for the miscellaneous plant mix:

- 401 020 046 Plant Mix Bit Surf Gr S - Misc Ton
- 401 020 064 Commercial Plant Mix – Misc Ton

The determination for using either the commercial or the volumetric plant mix bid item will remain unchanged and is determined by the total tonnage of plant mix on the project (See 11/16/2017 Pavement Design Manual design memo). All other associated paving quantities (Tack, Asphalt Cement, Hydrated Lime, etc.) are not affected by this change, and will continue to be measured and paid under existing bid items.

These new items are not covered by a material specification. They need to be used coincidentally with other paving bid items that include gradation and AC specifications. In general, these items are intended for pavements that are completed with a separate operation from the roadway paving, represented in the Additional Surfacing summary frame, and not represented in the project Typical Sections. Paving items that may be measured with these bid items include:

- approaches,
- separated paths (same gradation as roadway),
- Type B scale sites,
- historic markers or other turnouts,
- and other spot paving areas measured by the ton.

Meeting the criteria listed above does not guarantee these bid items are appropriate for use for all miscellaneous paving. Nor does not meeting the criteria necessarily exclude their use in some cases. Exceptions to this general guidance may be necessary based
on the amount or proportion of misc. paving on the project, required or anticipated sequencing, or other factors that make tracking the quantities in the field problematic, as determined by Construction. In General, items not included in the miscellaneous paving quantities are:

- interchange ramps and crossroads,
- auxiliary/turn lanes,
- minor widening done with roadway paving (i.e. 3 ft. strips on appr.),
- intersecting roadways with typical sections in the plans,
- approach paving longer than 300 feet,
- paving with different plant mix gradation than mainline,
- rest areas and Type A scale sites,
- any pavement included in other items or not measured by the ton,
- and projects without or very limited roadway paving.

The following plans, specifications, and estimate changes are required for inclusion of either misc. PMS item on a project:

- Include Misc./Approach Paving Special Provision from binder.
- No change is required for Basis of Plan Quantities
- Edit the column header for PMS in the Additional Surfacing summary to match the appropriate bid item, or add an additional column if other items are included in mainline PMS quantities
- Add a column for the misc. PMS in the Surfacing summary frame to include the Add. Surf. quantity total.
- Add the item and quantity to the project estimate.

This change is effective for all applicable projects beginning with the November 14, 2019 bid letting. Below are the draft binder special provision and an example of summary frame revisions. Refer to the current binder copy for any updates to the standard special provision. Contact Damian Krings with any questions to this guidance.

1. MISCELLANEOUS/APPROACH PAVING [401] (NEW)

   Description. This provision provides for separate payment of approaches and miscellaneous paving from mainline quantities that is not placed in conjunction with production paving.

   Materials. Furnish the same plant mix surfacing and asphalt binder as specified in the contract. Produce plant mix in accordance with Section 401.

   Construction. Vacant

   Measurement. Miscellaneous/Approach paving is measured in accordance with Subsection 401.04. Miscellaneous/Approach paving quantities will be paid by the separate bid item and will not be included in QA totals.

   Basis of Payment. Plant Mix Surf GR S-Miscellaneous is paid by the ton. Commercial Plant Mix Surfacing-Miscellaneous is paid by the ton.
e-copies: Dustin Rouse, Preconstruction Engineer
            James A. Combs, Highways Engineer
            Damian Krings, Acting Highways Design Engineer
            William Squires, Acting Road Design Engineer
            Roy Peterson, Traffic & Safety Engineer
            Ivan Ulberg, Traffic Design Engineer
            Stephanie Brandenberger, Bridge Engineer
            Jim Davies, Materials Engineer
            Jeff Jackson, Geotechnical Engineer
            Ryan Dahlke, Consultant Design Engineer
            Bryan Miller, Consultant Plans Engineer
            Paul Jagoda, Construction Engineering Services Engineer
            Jake Goettle, Engineering Construction Contracting Bureau Chief
            Jim Frank, Glendive District Preconstruction Engineer
            Clay Blackwell, Glendive DCE
            Mike Taylor, Billings District Preconstruction Engineer
            Ted Thronson, Acting Billings DCE
            Duane Liebel, Butte District Preconstruction Engineer
            Bill Fogarty, Butte DCE
            Donny Pfeifer, Missoula District Preconstruction Engineer
            Jim Wingerter, Acting Missoula DCE
            Steve Prinzing, Great Falls District Preconstruction Engineer
            Richard Hibl, Great Falls DCE
            John Cornell, Road Plans Checker
            Jerry Sabol, Road Plans Checker
            Bill Durbin, Consultant Plans Checker
            Robert Padmos, Consultant Plans Checker
            Will Tangen, Consultant Plans Checker
            Jon Swartz, Maintenance Administrator
            Doug McBroom, Operations Manager
            Tom Martin, Environmental Services Bureau Chief
### BASIS OF PLAN QUANTITIES

<table>
<thead>
<tr>
<th>Quantities for Estimating Purposes Only</th>
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<tbody>
<tr>
<td>Item</td>
</tr>
<tr>
<td>Combo Weight</td>
</tr>
<tr>
<td>Aggregate Cement - Under 5.7</td>
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<tr>
<td>Emulsified Asphalt -_king (All Stamps Surfaces)</td>
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<tr>
<td>Emulsified Asphalt -_Fasphalt, 5%</td>
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<tr>
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### APPROACHES

**For Drainage, Street, and Private Approaches:**
- 2030+88.80 to 2032+88.80
- 2032+88.80 to 2033+60.20
- 2033+60.20 to 2034+80.20
- 2034+80.20 to 2035+52.20
- 2035+52.20 to 2264+52.20
- 2264+52.20 to 2496+52.20
- 2496+52.20 to 2852+89.00
- 2852+89.00 to 2858+91.00
- 2858+91.00 to 2860+35.00
- 2860+35.00 to 2959+33.60

**For Public Approaches:**
- 2030+88.80 to 2032+88.80
- 2032+88.80 to 2033+60.20
- 2033+60.20 to 2034+80.20
- 2034+80.20 to 2035+52.20
- 2035+52.20 to 2264+52.20
- 2264+52.20 to 2496+52.20
- 2496+52.20 to 2852+89.00
- 2852+89.00 to 2858+91.00
- 2858+91.00 to 2860+35.00
- 2860+35.00 to 2959+33.60

### SURFACING

#### STATION

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<th>Item</th>
<th>AGGREGATE</th>
<th>BITUMINOUS MATERIAL</th>
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<td>GROSS</td>
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<tr>
<td>TOTAL</td>
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#### ADDITIONAL SURFACING (Included in Surfacing Frame)

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<tr>
<td>SUBTOTAL</td>
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**Remarks:**
- Place 40 ft wide Plant Mix Paved Street Adjacent and Parallel
- To the roadway for all non-standard gravel approaches.
- Plant Mix Emulsified asphalt.
- Aggregate = 2.56 tons
- Emulsified Asphalt + Tack = 4.9 gallons
- Place 112 ft wide Plant Paved Street Adjacent and Parallel.

**Surfacing Frame:**
- 200.00 GROSS
- 200.00 NET
- 19.9 HYDRATED LIME
- 1.3 SLEEPER
- 1.3 SLEEPER
- 230.54 GALLONS

**Remarks:**
- PLACE 30 FT WIDE PLANT MIX PAVED STREET ADJACENT AND PARALLEL TO THE STANDARD FOR ALL NON-STANDARD GRAVEL APPROACHES.