PAPA Regional Technical Meetings
(Cranberry Twp., State College, Allentown)

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Publication 408
Series 400
Rewrite

What’s Changing?
Today’s Discussion

• Background

• Approach

• Section Review/Clearance Transmittals

• Final Steps
August 2018

- Department Construction Process/Quality Team met to discuss the update/rewrite of Publication 408 Construction Specifications

- Focus on reducing/eliminating special provisions and incorporating needed updates

- Construction Specifications normally updated on a 4 year cycle (Publication 408 last updated April 1, 2016)
Approach

September 2018

- Team leaders and members were selected for each specification section team comprised of PennDOT, Turnpike, Industry and FHWA representatives.

- A kick-off meeting was held at the Lab in Harrisburg to discuss the direction of the rewrite effort

- Target February 2019 to have most clearance transmittal changes in place for spring 2020 roll out new Publication 408
400 Series Team

Team Lead:

Rich Polenik-PennDOT District 10 Materials

Team Members:

PennDOT-Neal Fannin, Lydia Peddicord, Adam Ostinowsky, Steve Koser, Tim Ramirez, Garth Bridenbaugh, Brian Shannon, Nhan Phan

Industry-Charlie Goodhart, Gary Hoffman, Jeff Frantz, Tom Abbey, Mike Worden, Ed Morrison, Scott Grannas

Turnpike-Terry Dreher
Prioritize sections for review

- The team determined high and low priority sections to review based on number of special provisions, District surveys and Industry concerns.

Special Provisions

- 60 District and standard specials were reviewed for all 400 series sections
- Of the 60, 9 have been incorporated throughout various sections, 37 have been deleted and 14 have been kept for continued use

Section Changes

- Based on the groups review, 12 of the 25 sections are going through the clearance transmittal process for change
Clearance Transmittal Changes: H-18-042
Due 1/7/19

Section 405 Longitudinal Joint Incentive/Disincentive

- Increase joint density from 90.0% to 91.0% and increase pay incentive/disincentive $5000/$10,000 to $7500/$12,500 respectively
- Removed corrective action of over banding
- Changes based on analyzing joint density data and adjusting to current construction results
Section 450 Manual Bituminous Patching

- Decreased minimum patch size from 4 SF to 1 SF. Minimizes removal of sound pavement adjacent to patch areas.
- Eliminate tack as a separate pay item. Included in unit price of patching now.
- Simplify payment of item.

Section 460 Bituminous Tack Coat

- Include asphalt residual rate for Cold Recycled Base Course (0.01 to 0.015).
- This change has been moved to Section 341.
Section Changes 405, 450, 460, 467 and 469

Section 467 Heavy Duty Membranes
- Allows use of heavy duty membranes on a milled surface.
- Requires a manufacturers technical representative or certified installer.
- Changes based on District use and good performance results

Section 469 Asphalt Joint and Crack Sealing
- Simplified the description of the item of work. Removed language requiring prepackaged material and created general statement for applicable material
- Include gallon as unit of measure for sealer and ton for SP4.75 mm asphalt mixture
Section Changes 46X and 489

Clearance Transmittal Changes H-19-003
Due 2/13/19

Section 46X Bituminous Paving Fabric

• New section to include Bituminous Paving Fabric specifications for use
• Considering to include other reinforced interlayer type products in this section
Section Changes 46X and 489 con’t.

Section 489 Ultra Thin Bonded Wearing Course

- Changed Emulsified Asphalt reference UTWCEM to UTFCEM to align with Bulletin 25 terminology
- Edited text within tables B, D and E to define minimum crush faces for aggregate, specimen void content and sieve reference corrections
- Added placement requirements to address material delivery to avoid stoppages and minimizing transverse joints.
- Adjusted placement dates according to PG binder used
Section 491 and 404

Section 491-Milling of Bituminous Pavement Surface
- Text change was made to remove working days and replace with calendar days when calculating Work Zone Liquated Damages.
- Minor change to specification. Submitted to FHWA for review and approval

Section 404-Evaluation of Bituminous Pavement Ride Quality and Payment Incentive
- This section is currently being edited and will be discussed with the team prior to being submitted into the clearance transmittal process.
Section 409 and 411 (413)

These sections are still being reviewed by the group with the following changes being considered and implemented:

• Combine Section 409 HMA with 411 WMA into one section (413) and require all asphalt paving be Warm Mix

• Require over banding of all longitudinal wearing surface joints (taken from section 405)

• Change performance grade binder reference to the current national designation. (PG 58S-28, PG 64S-22, PG64E-22)

• Included Multiple Stress Creep Recovery (MSCR) testing AASHTO M 332
Section 409 and 411 (413) con’t.

- Incorporation of the Safety Edge Special Provision into the specification.

- Include Gmm verification special provision into the specification for Federally funded and NHS projects

- If requested by the Representative, provide an access point on a hauling unit to conduct temperature checks of the mixture

- Change text references from “bituminous” to “asphalt binder” for the liquid and “asphalt mixture” for completed mix.

- Use a 12 foot straight edge for surface tolerance checks
Section 419

This section for SMA is still being reviewed by the group with the following changes being considered and implemented:

- Using Warm Mix as a standard

- Provide a range of Combined Aggregate Bulk Specific Gravities in Table C

- Specify use of wax-lined boxes when obtaining mixture composition samples

- Change performance grade binder reference to the current national designation
  
i.e PG76-22 = PG64E-22
Final Steps

Sections 405, 450, 460, 467, 469 and 491
• Comments addressed from clearance transmittal process currently under review at FHWA

Sections 46X and 489
• Comments from the clearance transmittal process are being reviewed by the group.
• Finalizing sections to submit to FHWA

Sections 404, 409/411(413) and 419
• Group continues to work on updates and revisions targeting a clearance transmittal circulation for Mid-summer 2019
Questions/Comments???

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