



Wisconsin Department of Transportation

WAPA 2013 Conference WisDOT Updates

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ASPHALT PAVEMENT OVERSIGHT GROUP (aka Green Team)

INITIATIVES:



Asphalt Mix Specification

- Revised current asphalt mix specifications, increasing asphalt binder in mix, evaluate mix parameters (Air Voids, VMA, Dust, etc.)
- Work completed
- The Green Team is working with the HMA Technical Team to establish future priorities



IRI Ride Specifications

- ▶ Work completed
- ▶ Specification went live with the May letting



QV Testing Frequency Increase

- ▶ Specification was changed to increase the frequency at which WisDOT performs quality verification testing and reduce the amount of tonnage that each QV test covers
- ▶ Work completed
- ▶ Specification has been in use for this construction season
- ▶ We will determine how our estimate of resource impacts compares to actual



Warranty Pavements

- ▶ On hold until other initiatives are completed



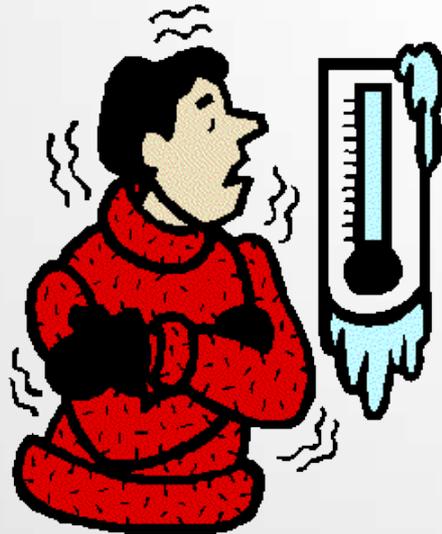
Base Course Compaction

- ▶ Pilot projects and testing took place over 2012 construction season
- ▶ Specification for new base to be included in the December lettings for new base material
- ▶ Working with the aggregate industry on specifications when using recycled material
- ▶ Goal of December or January letting



Cold Weather Paving

- Specification changes in process
- Looking for the February or March letting via ASP-6



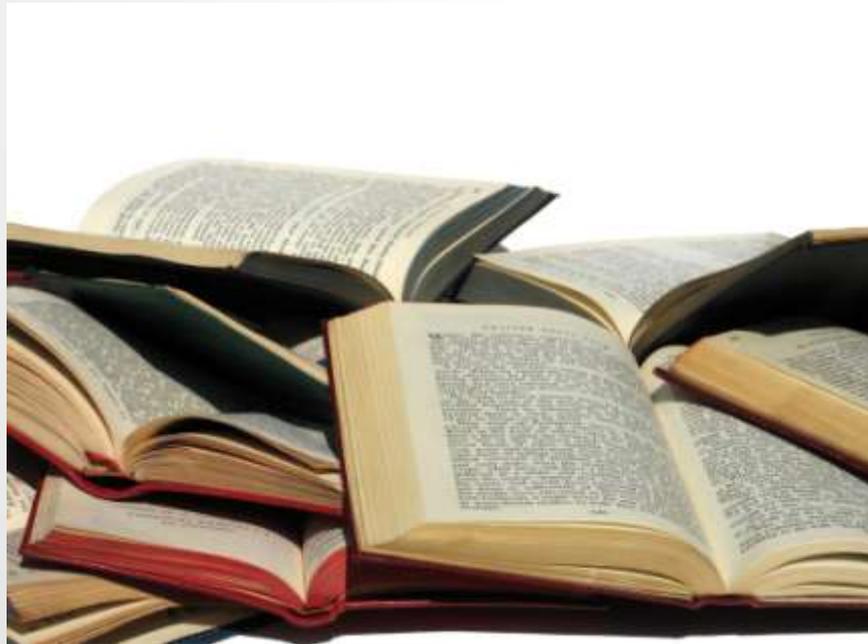
Durability & Longevity

- ▶ Continue to evaluate initiatives and ensure that what we are putting in place is working



Implementation of MEPDG

- ▶ On track for January 2014, starting with STN designs



GREEN TEAM NEW INITIATIVES:



Thin Asphalt Overlay

- ▶ Provide guidance for appropriate and beneficial application of 4.75mm and 9.5mm NMAS mixtures
- ▶ Working on speeding this one up



Cold in Place Recycling (CIR)

- ▶ Develop a “Foamed Asphalt”/Cold-In-Place Recycled (CIR) Specification, Design Guidance
- ▶ Design Guidance will be completed by the first of the year



Full Depth Reclamation

- Develop Full Depth Reclamation (FDR) Specification and Design Guidance Running in parallel to CIR



Bidability/Constructability

- ▶ BPD is working on this initiative



Longitudinal Joints

- ▶ Longitudinal Joint specifications are also in the works
- ▶ Looking to gather data and provide guidance on application of methods
- ▶ Also looking to come to a common specification in terms of how the items are paid statewide
- ▶ Also looking into development of a longitudinal joint density specification



TECH TEAM UPDATES:



CMM

- ▶ Separated CMM 8-65 into 2 chapters, one asphaltic binder, one mix design
- ▶ Updates to CMM 8-36:
 - Updated Dispute Resolution Scenarios and Flow Charts along with a legend for additional details
 - QV allowable tolerances for Gmm & Gmb were increased by 0.005
 - Adjusted single test points for %AC and VMA when a running average is not established
 - Provided additional clarification regarding source documentation
 - Clearly removing usage of microwaves which was common practice at on point in time



Nuclear Density Program (Pending)

- ▶ Additional information added regarding geotechnical areas
- ▶ Putting SPV language for definition of coarse graded or gap graded mixes into CMM 8-15.
- ▶ Creating one system for all density testing and make it MTS accessible, w/uploadable spreadsheet



Longitudinal Joints

- ▶ Longitudinal Joint re-heating STSP was created
- ▶ Look at potentially sending out as SPV temporarily



Established HMA Subgroups

- ▶ Design
- ▶ Mix Design Process
- ▶ Materials Testing & Documentation
- ▶ Construction
- ▶ Training



Round Robin

- ▶ Program in currently underway for 2014 construction season



Warm Mix Asphalt

- ▶ Compactive aid versus reduction in mix temperature
- ▶ Approved product list supporting allowable additives/processes



HMA Intersection Mixes

- ▶ STSP has been eliminated



Hot In-Place Recycling

- ▶ SPV was created



Regional Visit Information

- ▶ Evaluation of Durability and Longevity via four main areas
 - Mixture Integrity
 - Thermal Cracking
 - Aggregate Quality
 - RAM production (specifically RAS)



VMA Mix Design Tolerance Changes

- ▶ An increase of 0.5% for the 9.5mm and 12.5mm E-3 mixes via ASP 6 for construction in 2014
- ▶ The other E0.3 and E1 levels will be affected for 2015



NEW FACES:



Personnel Changes at Truax

- ▶ Barry Paye and Deb Schwerman joined the Truax team in the laboratory

