Southeast Maintenance Meeting
Mobile, AL

James Stevenson, P.E.
Seal Coat Program
Seal Coat Specialist Meeting

- February 21st and 22nd
- Topics Discussed
  1. Educational Series (Workshops)
  2. In House Seal Coat Program
  3. Contract Seal Coats
  4. Materials
Seal Coat Workshops

- Seal Coat Workshops C & D
  - Inspectors
  - Maintenance Leadership
- Presented at 5 District Locations:
  - Corpus Christi - March 26th thru 29th
  - San Angelo - April 9th thru 12th
  - Tyler April - 16th thru 19th
  - Waco April - 23rd thru 26th
  - Lubbock - April 30th thru May 3rd
<table>
<thead>
<tr>
<th>Workshop</th>
<th>TxDOT Target Audience</th>
<th>Scheduled Dates</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>District Seal Coat Specialists</td>
<td>Feb 18-20, 2020 &amp; Mar 10-12, 2020</td>
<td>TxA PA Office, Buda, TX</td>
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<tr>
<td>B</td>
<td>Designers (Plans and Specifications)</td>
<td>Feb 18-19, 2020 &amp; Mar 10-11, 2020</td>
<td>TxA PA Office, Buda, TX</td>
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<tr>
<td>C</td>
<td>Inspectors</td>
<td>Feb 18-19, 2020 &amp; Mar 10-11, 2020</td>
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<td>D</td>
<td>Maintenance Leadership</td>
<td>Feb 20, 2020 &amp; Mar 12, 2020</td>
<td>TxA PA Office, Buda, TX</td>
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<tr>
<td>E</td>
<td>Maintenance Supervisors, Asst. Maintenance Supervisors and Crew Leaders</td>
<td>As requested by the District (Nov 1, 2019 - Feb 29, 2020)</td>
<td>District Offices</td>
</tr>
</tbody>
</table>
4 Year pavement management plan

Guidance Document
Nominating Projects

- **Items to Consider**
  - Issue Project Call to MSS and AEs
  - Skid Scores and Wet Weather Accidents
  - PMIS Scores (New scores by January)
  - Optimization Analysis Tool in PA

- **Combine all Project to Determine District Drive List**
Drive and Rank the Nominated Projects

- **Overlays and Rehab Projects:**
  - Conducted with DOM/DOO, DOC, TP&D, and local AE at minimum
  - Determine Exact Needs of Project
  - Each Director ranks project on a 1 – 10 scale

- **Sealcoat Projects:**
  - Cycle??
  - Surface Age
  - Area Engineers to Drive and Rank
Project Selection

- Higher Ranking Projects:
  - Pavement Evaluation/Design
  - Accurate Estimate

- Plug Projects into Available Funding Areas
Main Funding Sources for this Selection Process:

- Category 1
- 13023
- 13045

Set Aside 13023 Funds for Specific In-house Work

Section’s 13023 Budgets should be Fiscally Constrained and include into the PMP
Coding Projects

- Code Projects According to Treatment Level Guidelines
- Most Sealcoat Roads should have RM
- Continuous Work Over 1 Mile should be Coded PM or Rehab
- Maintenance Section Enter their Plan into MMS.
Length of Plan

- RM – Current Year Plus 1
- PM – Current Year Plus 2
- Rehab – Defined for Entire 4 Year Period
Checking Plan

- Complete Plan by End of April for Final Review
- DOM meet with each Maintenance Supervisor & AE
- Utilize PA Analysis Report
- Attend PMP Review with MNT in June
Follow Through

- Provide PMP Map to Maintenance Sections
- Monitor Execution of Plan throughout the Year.
Meetings occurred on June 4th through June 6th and June 10th through June 12th

- New Format: Districts gave a presentation to the Review Team with questions during and after the presentation. New format was well received.

- Best Practices from District Four Year Plans:
  - Use of CRIS data for project scoping
  - Use of a modified Decision Lens for project selection
  - Quarterly reviews of the Four Year Plan
  - Measurement of IRI before and after seal coat
  - Revisiting seal coat projects after one year to evaluate result
  - Project level evaluation using non-destructive testing
Peer Reviews

- 2019 Peer Reviews were performed in the following Districts
  - BRY, BWD, TYL, LFK, WFS and WAC
- 2020 Peer Reviews
  - ATL, PAR, HOU, FTW, BMT, LBB
System Safety

Organizational Changes

- Added Safety to Director of Engineering and Safety Operations
- Develop a holistic approach to system safety
- Change culture
- Include system safety in every project
- Upgrade to current standards now rather than later
- Changed name of Traffic Operations Division to Traffic Safety Division

Data

- Introduced heat maps to the Districts in June
- Hot spots
- Mapping fatalities on high speed facilities
- Pedestrian
System Safety

Funding
Blend funding to reduce the number of work zones/projects

Category 8
- Highway Safety Improvement Program (HSIP)
- Removed commonly accepted items (should be standard)
- Improve efficiency
- Change the process
- Allow districts to leverage funds (FHWA)

Category 6
- Narrow bridges
System Safety

Measuring

- Created Council on System Safety
- Working with TTI to develop project scoring tool
- Establishing criteria
- Stay in the lane
- Stay on the pavement
- Protect off the pavement
- Before
- After
- Justification for items not included

Accountable

- Integrated into 4 year pavement plan reviews
- Mapping
Emergency Response: When Disaster Strikes
Hurricane Harvey – August 2017

- Hurricane Harvey made landfall on August 25, 2017 as a Cat 4 Hurricane.
- Total rainfall was over 50” of rain.
- TxDOT expenditures totaled almost $149 million dollars
  - Projects are ongoing and expenditures continue to increase.
- TxDOT is seeking Emergency Relief (ER) reimbursement from FHWA
  - 359 Projects
  - $91 million dollars in projects.
- TxDOT is seeking ER reimbursement from FHWA on behalf of local governments
  - 220 Projects
  - $39 million dollars in projects.
- FEMA Reimbursement
  - Seeking $58.4 million
  - Reimbursements to date are $39.9 million.

Photo Credit: CBS News
Hurricane Harvey – Rain Totals

Photo Credit: National Weather Service
Hurricane Harvey – Debris Cleanup

- First time in TxDOT history, the Governor ordered TxDOT to assist with off-system debris pickup
  - TxDOT picked up 334,372 Cubic Yards of off-system debris
  - Assisted 28 local government entities
  - 2,015 Employees assisted with off-system debris
  - 286,150 Employee hours were spent on cleanup
- On-System debris pickup
  - TxDOT picked up 153,325 Cubic Yards of on-system debris
  - Contractors picked up 297,900 Cubic Yards of on-system debris

Photo Credit: nbcdfw.com / chron.com
Severe Weather Events - One Year In Texas

- Texas has been hit with nine disaster events in FY2020
- Five of these events were declared a disaster by Governor’s Proclamation
- One event received a Presidential declaration
- TxDOT has received over 30 local government requests to assist in debris cleanup

<table>
<thead>
<tr>
<th>Event Date</th>
<th>Task Number</th>
<th>Contract</th>
<th>State Forces</th>
<th>Total Expenditures</th>
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<td>September 2018 Tropical Storm</td>
<td>47Y00317</td>
<td>$ 900,679.03</td>
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<td>April 2019 Floods</td>
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<td>October 2019 Tornadoes</td>
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<td>$ 45,695.73</td>
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<td><strong>Grand Total</strong></td>
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<td><strong>$ 36,525,058.43</strong></td>
<td><strong>$ 3,017,743.97</strong></td>
<td><strong>$ 39,542,802.40</strong></td>
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Tropical Storm Imelda

FHWA Requirements

- Federal requirements are included in routine maintenance contracts at letting currently.
- If a disaster occurs, Special Provision 000-457 is activated and the contractor is required to follow the federal requirements.
- After the disaster, Special Provision 000-457 becomes deactivated, and the bid amounts return to original bid amount.
- ROW, utility, railroad, and environmental certifications must be cleared, even for state force work.
- Oversight of ER projects was returned to TxDOT.
- During Hurricane Harvey, some emergency repairs were determined to be permanent repairs and only 80% was reimbursed.
  - This became an audit nightmare.
- In the future, TxDOT will include the determination of emergency repair on the DDIR.
When Disaster Strikes

- Take plenty of pictures, before cleanup
- Use the Solocator application for the GPS and location stamps
- Ensure the task number is provided to EVERYONE
  - TxDOT lost $1.3M in traffic items alone
- SP000-457 and SP004-002
  - If the contract has been extended, the SP000-457 is void and cannot be used
- Change Orders to existing contracts
  - Non-Participating
  - Cost justification must be provided
- Emergency Maintenance Contracts
  - Include Federal Special Provisions
  - Certification of Emergency is Required
  - Award of Contract (2504a) should on file with MNT Division
Maximizing Reimbursements

- Involve your FHWA engineer
  - They need to inspect damages
- Be aware of FHWA deadlines
- Labor, equipment, and material need to be charged out through MMS
- Labor, equipment, and material should always be charged to the roadway referencing the correct Code Chart 12 function
- What if my employees time isn’t managed in MMS?
  - Work with MNT to provide a MMS work order to reference in PS
  - Overhead will not get reimbursed

<table>
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<tr>
<th>Total</th>
<th>Time Reporting Code</th>
<th>Project</th>
<th>Override Reason</th>
<th>Business Unit</th>
<th>ChartFields</th>
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Mobile Solution Assessment Reporting (MSAR)

- All fields must be completed
- DDIR name is the District-County-Site number (ex: 13-015-001)
- Certifications for clearances of right of way, utility, railroad, and environmental are required for both in-house and contract work
- Contract proposals, plans, and engineer’s estimates should be uploaded
- Permanent repair contracts must be approved by FHWA prior to advertisement and letting
- Emergency repair must have the reason the project qualifies as an emergency documented in the scope of work in MSAR to be eligible for 100% funding
  - Need to restore essential traffic
  - Minimize the extent of damage
  - Protect the remaining facilities
Few bills that affect MNT

Nine bills were passed that related to Emergency Operations. These bills covered several topics such as outreach on agencies hurricane preparedness, disaster response/recovery, communication during an emergency, and debris management. TxDOT is participating as a support agency for these bills.

Major win: SB 537 allows TxDOT to purchase food and beverages for employees activated during an emergency

SB 1092: Mandates the procurement of roadway materials, including traffic control and safety devices through competitive bid process (routine maintenance contracts)
TANKS
Getting Lazy People to the Battlefield Since 1916