

Michigan DOT

Erin Chelotti, PE

Capital Preventive Maintenance Engineer



MDOT

- **Capital Preventive Maintenance Program**
 - \$92M program

Standard Capital Preventive Maintenance Treatments

Pavement Seal	Functional Enhancement
<ul style="list-style-type: none">• HMA Crack Treatment• Concrete Crack Treatment• Concrete Joint Resealing With Minor Spall Repair• <u>Overband</u> Crack Fill• Chip Seals• Micro-surfacing• Ultra-Thin HMA Overlay-Low & Medium Volume (<1" thick)• Paver Placed Surface Seal• Fog Seal	<ul style="list-style-type: none">• Non-Structural HMA Overlay (1.5'')*• Surface Milling with Non-Structural HMA Overlay (1.5'')*• HMA Shoulder Ribbons• Full Depth Concrete Pavement Repairs• Diamond Grinding• Dowel Bar Retrofit• Concrete Pavement Restoration**• Underdrain Outlet Clean Out and Repair ***



Pavement Management Overview

- Collect Distress Index (DI), International Roughness Index (IRI), Rut, and Faulting data.
- DI is converted to Remaining Service Life (RSL)
- RSL used in Road Quality Forecasting System (RQFS) to forecast future pavement conditions.
- Regions then use the Capital Preventive Maintenance Manual to determine appropriate fix types



Successful Treatments

- Northern Regions – Surface Treatments
- Southern Regions – Thin Overlays (1.5” or less)



Problematic Treatments

- **Double Chip Seal with Fog**
- **Centerline Rumbles after multiple single chip seals**



New Treatments

- **Concrete Penetrating Sealers**
- **Non-Cementitious partial depth repairs**
- **Micro-surfacing for longitudinal joint repairs**
- **Micro-Milling prior to surface treatments**



Questions?

