Mission

The pavement design section provides comprehensive design of asphalt, concrete, and composite pavements as well as accurate calculation of contract construction quantities. The section performs field inspection and identification of pavement repair needs and writes appropriate specifications and special provisions to the Standard Specifications for Highway Construction. Pavement coring and Falling Weight Deflectometer testing is also accomplished within the section. All work is done in a timely manner that supports the NDOR letting schedule.
Pavement Design

- Design of the Entire Pavement Structure
  - Soil, Foundation Course, Pavement
  - Materials & Thicknesses

- New build – 10%
  - Analyze traffic, design life, materials, cost

- Resurfacing – 90%
  - Analyze existing structure, distresses, design life, traffic, cost

- Office work – 90%, Field work – 10%
Current Resurfacing Strategies

Asphalt Roadways

- Asphalt Overlay
- Asphalt Mill and Overlay
- Recycle
  - Hot In Place Recycle
  - Hydrated Lime Slurry Stabilization
  - Full Depth Reclamation w/fly ash, cement, or emulsion
- New - Fly Ash Slurry Injection of Thermal Cracks w/Mill and Fill

Concrete Roadways

- Repair and Diamond Grind
- Asphalt Overlay
- Recycle & Overlay
  - Crack and Seat
  - Rubbilization
Hydrated Lime Slurry Stabilization

Crack and Seat and Overlay

Full Depth Reclamation w/Fly Ash

New Concrete

Hot In Place Recycle

Rubbilization and Overlay

Crack and Seat and Overlay
Pavement Design Section
Jeff Soula

Dennis Meinecke
<table>
<thead>
<tr>
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<td>Jeff Soula</td>
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Field Inspection
Concrete Repair Measurements
Asphalt Coring Verifying the Design
Structural Evaluation of Flooded Roadway
Niobrara, NE