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Airport Pavement Maintenance

South Dakota Airport Conference

Brad Remmich - SDDOT Aeronautics

Brooke Edgar - Helms and Associates

Byron Barlow - Ameriseal of Ohio, Inc.

Pavement Maintenance

- Why Pavement Maintenance
- Pavement Maintenance Process
- Types of Pavement Maintenance
- Microsurfacing



Why Pavement Maintenance

- Maximize the Life of Pavement Surfaces
- Maintenance vs Reconstruction saves \$\$\$\$
- Keeps you airport pavements in the best condition possible



Pavement Maintenance Process

- Annual Airport Pavement Inspection (Summer)
- Preliminary Pavement Maintenance Recommendation (Fall)
- Meet with Airport Consultants to verify Recommendation (Fall)
- Consultant Selection (Fall)
- Airport Inspection with Consultant (Fall/Winter)
- Final Recommendation (Late Winter)
- Prepare Plans (Winter/Spring)
- Let Project (Spring)
- Award Pavement Maintenance Project (Summer/Fall)

Pavement Maintenance

- Conduct Summer Pavement Inspections
 - Review Pavement Condition Index (PCI)
 - Cracking
 - Oxidization
 - Pavement Markings
 - Recommend Pavement Maintenance based on Distresses
- Manage Annual Statewide Maintenance Project
 - Hire Consultant to Prepare Plans, Bid and Manage Project
 - Ensure project is completed to specifications



Concrete Distresses

Spalling



Cracking



Corner Cracking



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Concrete Maintenance

Saw and Seal Joints



Saw and Seal Cracks



Spall and Corner Repair



Asphalt Cracking

Transverse



Longitudinal



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Asphalt Maintenance

Route and Seal



Crack Leveling



Dig out and Replace





Asphalt Oxidization

- Emulsified Seal Coat
- Micro-surfacing
- Pavement Markings