Concrete Pavement Preservation through Asphalt Overlay

Presented by City of Plano and TexasBit
Asphalt Overlay Program Overview – Presented by City of Plano

• Why Asphalt Overlay

• Benefits
  • Preservation
    • Water Intrusion
    • Significantly fewer defects when overlay added to concrete repair
  • Ride quality
  • Noise reduction
  • Aesthetics
    • Aesthetic Consistency
  • Life cycle analysis
Asphalt Overlay Program Overview – Presented by City of Plano

• Why Asphalt Overlay

• Repair and overlay vs. concrete reconstruction
  • PCI Scores Dictate Maintenance Not Replacement
  • Life Cycle Cost
  • Construction Disruption to Public
    • Time for Construction
    • Phasing for Construction
Asphalt Overlay Program Construction Methods – Presented by TexasBit

- Material & Equipment Selection
- Level-up mix
- Surface Mix – Ultra-Thin Overlay, TOM, CAM, Type D, Super-pave, MAC
- Spray Paver vs. Hot Applied Membrane vs. Conventional
- Benefits of Recycled Materials – how they help asphalt performance
Asphalt Overlay Program Construction Methods – Presented by TexasBit

• Level-up vs. Crackseal (importance of doing one or other or both)
• Level-Up
  • Means/Methods to Achieve Maximum Benefits
  • Addresses Wide Range of Distresses
  • Restore Ride Quality
  • Durability
• Crackseal
  • When
  • How
  • Material
Asphalt Overlay Program Looking Back – Presented by City of Plano

• Citizen / Taxpayer feedback
• Was it worth it?
• Changes going forward?
Asphalt Overlay Program Looking Back – Concrete Overlays
Asphalt Overlay Program Looking Back – Concrete Overlays
Asphalt Overlay Program Looking Back – Spray Paver Applied Emulsion Tack/Seal
Asphalt Overlay Program Looking Back – Hot Applied Trackless Tack/Seal