

# Road Maintenance



Eric Kopinski

MoDOT – Environmental Division

# Howard's Ford - 2009

## MoDOT - Modified Low Water Crossings

- Practical Design – Chevy vs Cadillac
- Wider Crossing for Vehicles
- Higher Elevations (decrease flood frequency)
- Installation of Rails
- Environmental Benefits



# Road Maintenance Overview

- MoDOT – 34,000 miles of road
- From 200,000 vehicles per day in St. Louis
- To 4 vehicle per day in Southeast
- Most important maintenance factors:
  - Safety, Cost and Environmental

# MoDOT – Gravel Roads?

- MoDOT maintains hundreds of miles of gravel shoulders
- MoDOT historically has assisted with country road entrances at intersections
- Different maintenance challenges vs county roads

# Dust Control

- Reduce traffic volume
- Reduce speed
- Water roadway
- Synthetic Stabilizers
- Pave Road
- Slow the wind



# Drainage is Everything

- Uniform drainage reduces dust
- Eliminates puddles
- Reduces potholes
- Roadway ditch/culvert/low water crossings



# Pavement Design

- Selecting the best material for application
- Base is extremely important
- Ensuring gravel road can handle heavy loads (farming equipment)
- Considering smaller compact vehicles



# Maintenance of Gravel Roads

- Proper equipment goes a long way
- Good operator is critical
- Training
- Innovative field practices
- Snow Removal

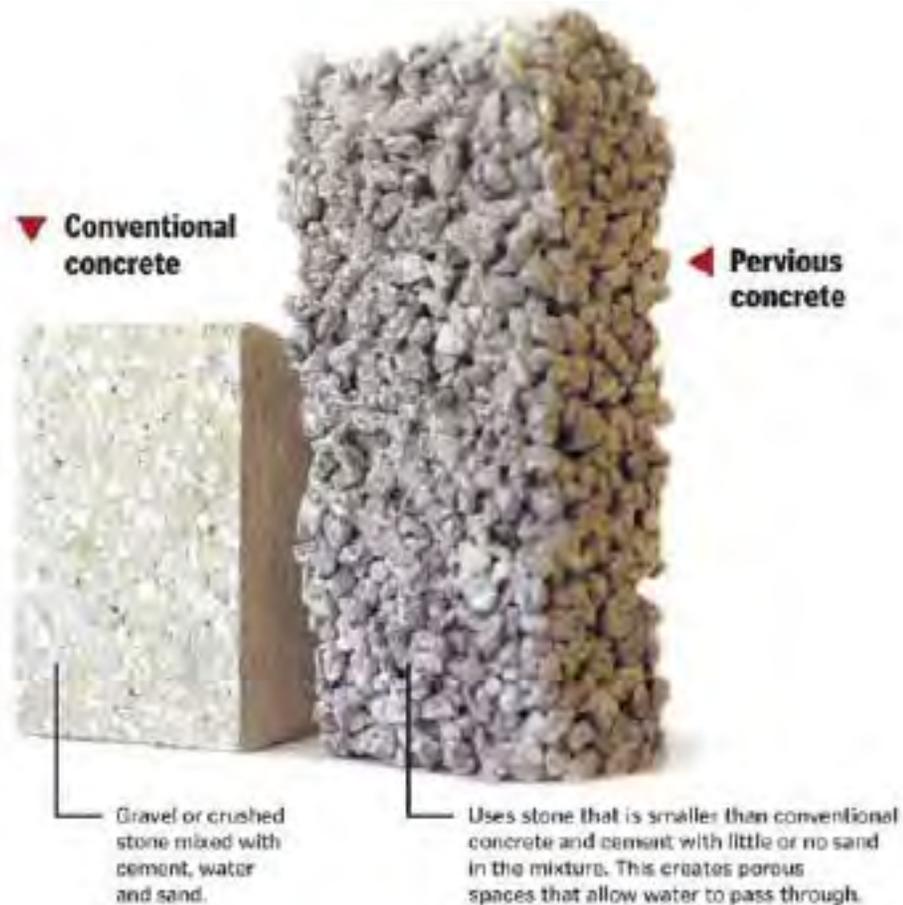


# Stormwater Consideration

- Grass slopes
- Grass ditches
- Rock Ditch Checks



# Future of Pavements



<https://www.youtube.com/watch?v=ScsQYHMfabU>

# Questions?

