Cornell Local Roads

Choosing the Right Repair
With Choosing the Right Repair

One size does not fit all !!!
Pavement Preservation

✧ Is not about Maintenance as Usual
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Liquid Asphalt Distributors Association of New York, Inc.
What is it?

- Planned strategy
- Proactive
- Right Treatment, Right Place, Right Time

How do you accomplish this??
Why It’s Important To Plan!

Projected Budget Gaps (in billions of dollars)

- 2011: -9
- 2012: -5.4
- 2013: -10.7
- 2014: -12.4

Choosing the right repair
Which Maintenance or Rehabilitation Technique Do You Choose?

- Right Treatment
- Right Design
- Right Preparation

The Road Tell Us It Must Be Done
Pavement Rating (surface)

Town of XXXX Pavement Management System

- Buckley Hollow Road
  - 10 – 9: Excellent
  - 7 – 8: Good
  - 6: Fair
  - <5: Poor

Don’t forget the rest of the road !!!!!!
Pavement Management Systems

Pavement Performance Curve and Windows of Opportunity

Condition Rating

Time

Do Nothing
Non-Paving PM
PM Paving
Multi-Course
Major Rehab/Recon

Pavement Management Systems

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MAINTAIN NOW...

Riding Comfort Index Quality

Very Good 10
Good 8
Fair
Poor 4
Very Poor 2

75% Time
40% Quality Drop
Acceptable Level
40% Quality Drop
12% Time
Total Failure

Over Time

OR PAY LATER.

Liquid Asphalt Distributors Association of New York, Inc.
NYSDOT Comprehensive Pavement Design Manual

- Chapter - 10 Preventative Maintenance

Addition 2

Pavement Performance Curve and Windows of Opportunity

Condition Rating

Do Nothing
Non-Paving PM
PM Paving
Multi-Course
Major Rehab/Recon

Time →
Far less expensive to keep good pavements good.

Treat the pavement early before distress becomes severe.

The time window is narrow for optimal performance.
The Right Treatment or Repair

In the pavements life cycle where is the optimum for $ to be spent?? (Pay me now or pay me later)
Non Paving Preventative Maintenance Applications

Options...
- Do Nothing
- Crack Sealing
- Fog and Sand

7.5 – 9: Good
Preventative Maintenance Wearing Course

6.5 – 7.5: Fair – Good

- Do Nothing
- Surface Treatment (Various Types)
- Quick Set Slurry
- Nova Chip
- Conventional HMA Overlay
- 6.3 mm HMA
- Micro-Surfacing
Preventative Maintenance
Wearing Course

6.5 – 7.5:  Fair – Good

- Do Nothing
- Surface Treatment (Various Types)
- Quick Set Slurry
- Nova Chip
- Conventional HMA Overlay
- 6.3 mm HMA
- Micro-Surfacing
Multi Course...Rehabilitative ???

5.0 – 6.5: Who knows?????

- Do Nothing
- Cold-In-Place-Recycling
- Re-profiling
- Multi Course Overlays
- Central Plant Recycling
- Reconstruction
- Let someone else worry about it...
Rehabilitative Options!!!
When Choosing The Right Repair

Take into account all the variables......

• Always Remember!!!!
• Right Treatment
• Right Place
• Right Time
Evaluate...Remember the 3 R’s

- Let the road tell what needs to be done
- Fix the disease, not the symptoms

Pavement Performance Curve and Windows of Opportunity
Cornell Local Roads

Repair Techniques

Today...
Emerson C
1:00-2:15 & 2:30-3:45

Surface Treatment
CIPR
Micro-Surfacing
Quick Set Slurry
Nova Chip
Crack Filling
SAMI

Thank You

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