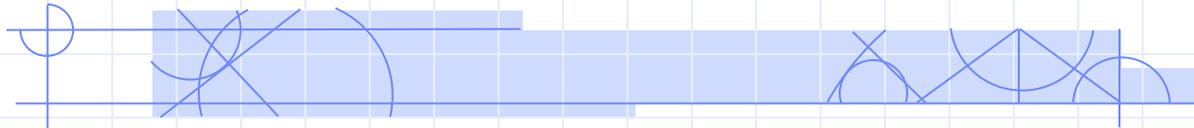


# Annual Road Plan



City of Manchester  
Department of Public Works  
May 15, 2018

Todd D. Connors, PE  
David L. Winslow, PE



# Pavement Management Strategy

Finding optimum strategies (cost/benefit) for evaluating and maintaining pavements in a serviceable condition over a period of time.

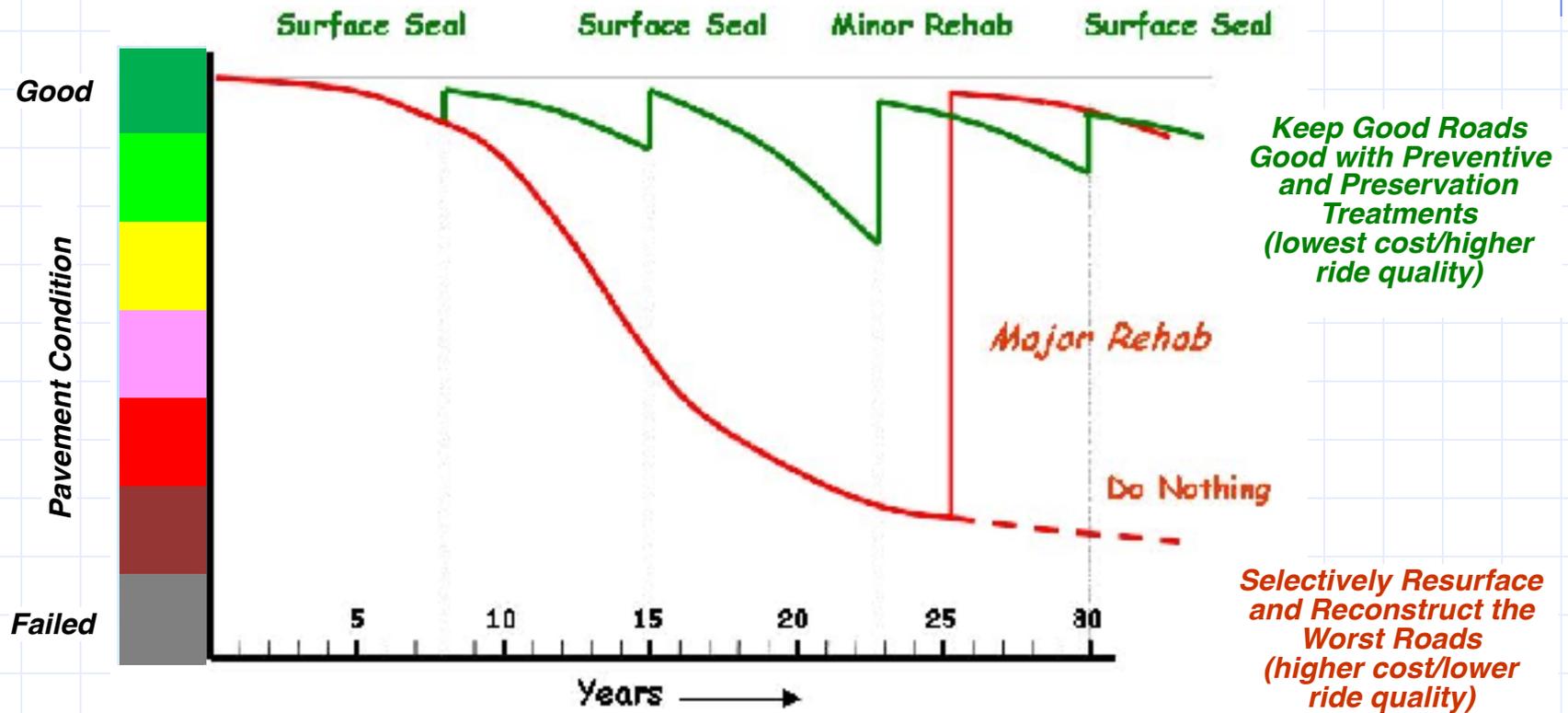
## Objectives:

- Preserve Good Roads
- Choose the Right Treatment
- Chip Away at the Worst
- Maximize the Life Span
- Minimize the Cost

Good Roads  
Cost Less

Keep Your  
Good Roads Good

# Pavement Management Strategy





# Park Avenue

Sept 22, 2016

## Bridgeport, CT

**2004:** 2" Mill & Fill

## Fairfield, CT

**2004:** 2" Mill & Fill

**2010:** Crack Sealing &  
Microsurfacing

# DPW Toolbox



- Preventive
  - Crack Sealing & Fog Sealing
- Preservation
  - Cape Seal (2017 Pilot) & Chip Seals (2018 Pilot)
  - Microsurface & Bonded Wearing Course (2017 Pilot)
- Resurfacing
  - HMA Overlay
  - Cold Plane & HMA Overlay
- Reconstruction
  - Cold-in-Place Recycling (2017 Pilot)
  - Reclamation & Reconstruction

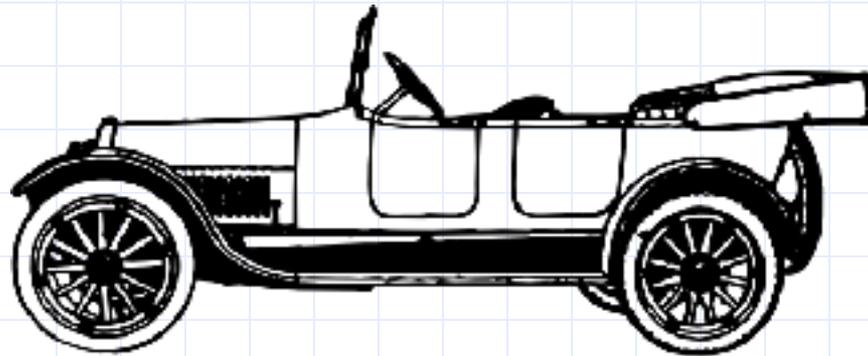


# Road Treatment Comparison

	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Preventive:	0.0	26.5	20.7	35.0 miles
Preservation:	0.0	0.0	2.2	4.0 miles
Resurfacing:	6.6	21.2	11.5	14.3 miles
Reconstruction:	<u>4.6</u>	<u>5.4</u>	<u>6.2</u>	<u>5.0</u> miles
Total Miles:	11.2	53.1	40.6	58.3 miles

# Network Service Life (NSL)

- Length of Road in Network: 403 miles
- Annual Loss of Service Life: 403 mile-years
- Service Life & Cost Vary by Treatment
- Manage Lifecycle (add service life with low cost treatments)



# Analysis of Network Life

Annual Goal: Add 403 mile-years to Network  
Added NSL

2014 Season: 153 mile-years

2015 Season: 396 mile-years

2016 Season: 293 mile-years

2017 Season: 374 mile-years



# 2018 Road Construction Ahead!

- Extend and Bid Contracts (spring)
- Coordinated Repairs: Utilities & DPW
- Continued Focus on Main Arteries
  - Highest Traffic Volumes/
  - Biggest Benefit to Citizens
- Pilot/Assess Preservation Treatments
- Alley Resurfacing Program

# Treatment Allocation

Preventive:	5-10%	31.5 miles
Preservation:	20-25%	6.5 miles
Resurfacing:	40-55%	10.0 miles
Reconstruction:	20-25%	4.0 miles



Proposed FY19 ROW Budget: \$5,425,000

- Road Bond: \$3,525,000
- Degradation Funds: \$1,500,000
- CDBG Funds: \$400,000



# Paving Plans

The Paving Plan will be posted on the City website to show the limits of funded projects.

Sections of Main Roads selected for the 2018 construction season include:

- Union Street
- Mammoth Road
- Wellington Road
- Lake Avenue
- Beech Street
- Bridge Street Ext.
- Chestnut Street
- Maple Street
- Bridge Street
- S. Mammoth Road
- Pine Street
- S. Beech Street
- McGregor Street
- Amherst Street
- Varney Street

# Thank You – Questions?

City of Manchester  
Department of Public Works



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