

**TOWN OF STOW
PAVEMENT MANAGEMENT
PROGRAM**

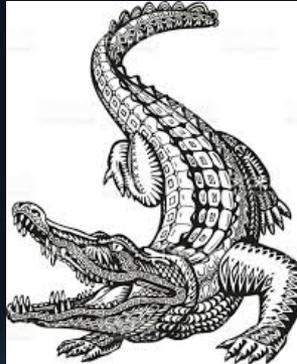
2022

Roadway Evaluation

- **Conduct a Town-wide Inventory of roadways**
 - **Roadway attributes**
 - Road Name
 - Length
 - Width
 - Surface Type
 - Estimated Average Daily Traffic (ADT)
 - **Condition Attributes**
 - Distress Type
 - Severity of distress (low, medium, high)
 - Extent of distress (% of roadway coverage)

Roadway Evaluation

- Distress Types
 - Edge Cracking
 - Alligator Cracking
 - Linear Cracking
 - Potholes
 - Patching
 - Rutting
- Roadway Surface Rating (RSR)
- Repair Recommendation
- Repair Cost

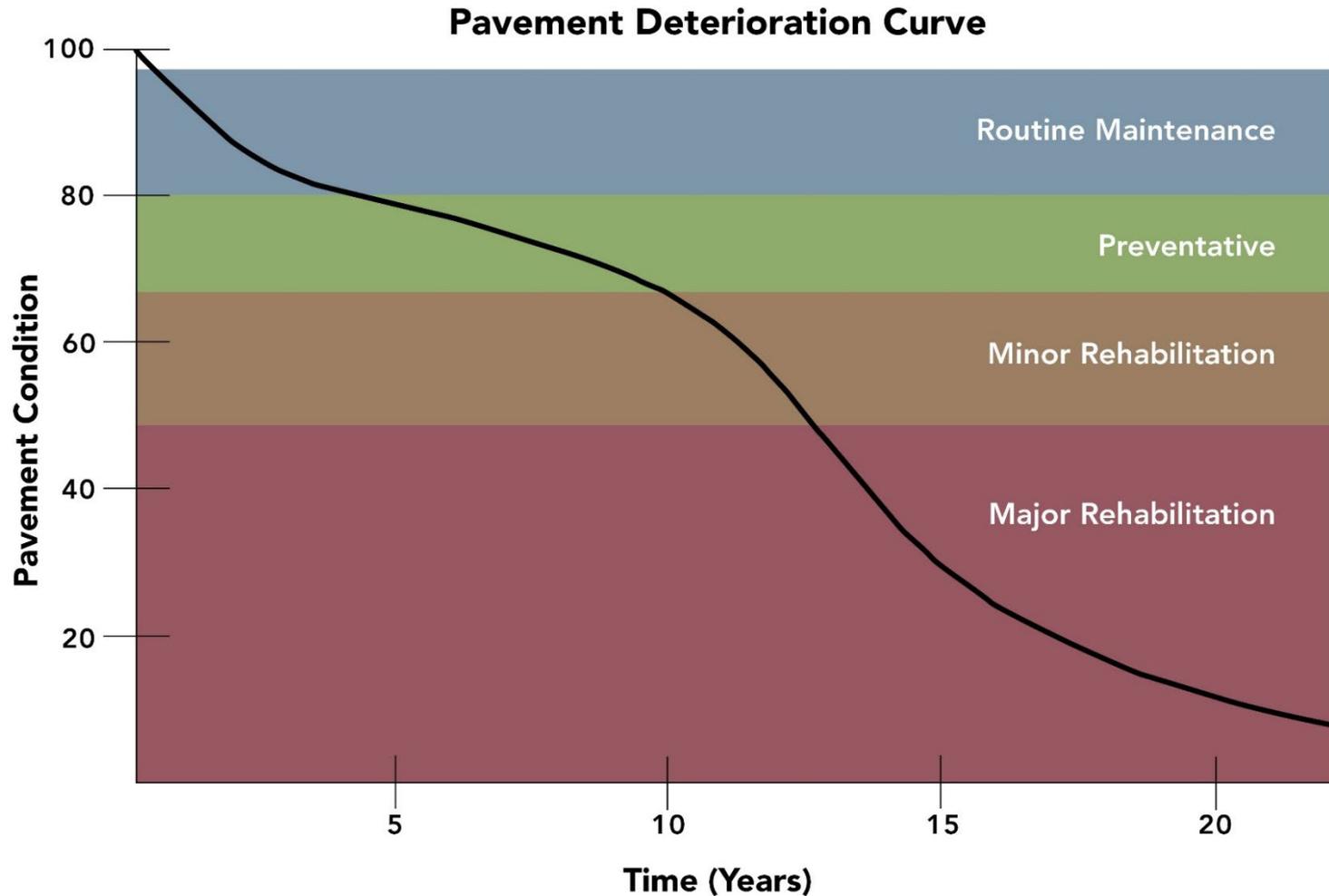


Network Modeling

- **Roadway Network Goal (RSR Mid-80s)**
- **Funding Sources**
 - Chapter 90 (state funding)
 - Town Funding request
- **Town has 60 miles of roads**
 - 55 miles of public ways supported by Chapter 90 (state funds).
~\$283K/year
 - 5 miles of private ways supported by Town funding only.
\$15,000/year



Network Modeling



Roadway Selection

- **Funding Allocated / Anticipated**
- **Cost Benefit Value (CBV)**
- **Upcoming Construction / Project Coordination**
 - **Other digs**
 - **Detours / traffic impacts**
- **Optimization of repair strategy**
 - **Scheduling / minimizing mobilizations**
 - **Focused repairs to keep good roads in good condition**
 - **Treatment selection**

WHY THIS ROAD



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We can even use a preservation treatment on a road in this condition with good success.

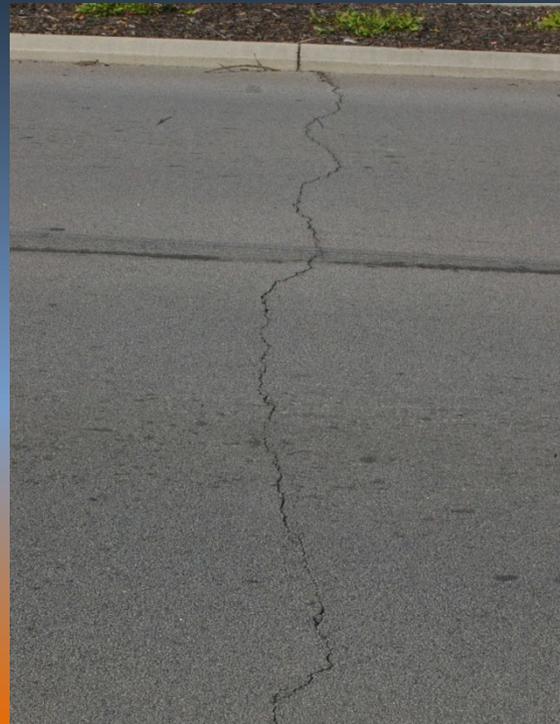
TREATMENTS

- Crackseal
- Fog Seal
- Rubber Chip Seal
- Microsurface
- Cape Seal
- Mill & Overlay
- Cold-in-Place Recycling
- Full-Depth Reclamation



TREATMENTS

- Crack seal



TREATMENTS

- Fog Seal



TREATMENTS

- Microsurface



TREATMENTS

- Cape Seal



TREATMENTS

- Mill & Overlay



TREATMENTS

- Cold-in-place Recycling



TREATMENTS

- Full Depth Reclamation



Treatment Costs

Treatment	Cost per Mile
Crack Seal	\$14,000
Fog Seal	\$40,000
Chip Seal	\$98,000
Microsurface	\$101,000
Cape Seal	\$142,000
Mill & Overlay	\$340,000
Cold-in-Place Recycling	\$515,000
Full-Depth Reclamation	\$625,000

ADA Considerations

DOJ & DOT Joint Guidelines on curb ramp requirements

Alterations (*ramps required*)

- Reconstruction
- Rehabilitation
- Open-graded surface courses
- Microsurfacing
- Thin life overlays
- Cape seal
- In-place recycling

Maintenance (*ramps not required*)

- Crack filling and sealing
- Surface sealing
- Chip seals
- Slurry seal
- Fog seals
- Scrub sealing
- Pavement patching