

Road Maintenance

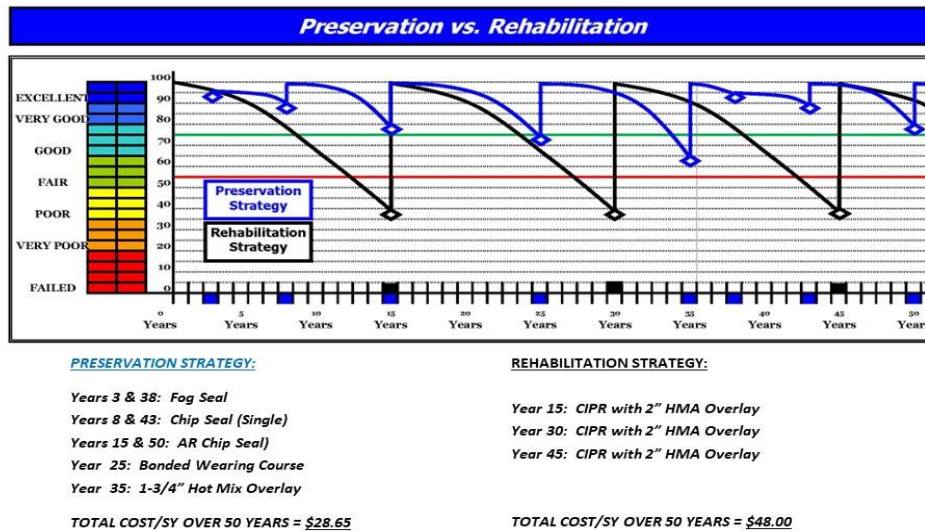
A Planned Network Strategy of Maintaining Pavements in Good Condition to Maximize their Useful Life as Cost Effectively as Possible.

To accomplish this goal, the Town should be maintaining 10 miles of shoulders and ditches per year. Part of this is being able to maintain our road shoulders and ditches to keep the water away from the road base. For this to be possible the town is proposing to purchase an excavator to clear and regrade ditches as necessary.

As you have most likely noticed, several of our roads are badly in need of repaving, as they were last paved over 10 years ago and some of our roads do not have the recommended 3.25 inches of pavement. The road pavement standard is 2 inches of base pavement and 1.25 inches of surface pavement. However, in the past, Bowdoinham opted to only complete the base pavement.

To address the Town's current state of roads, we have created an aggressive -year road plan to catch up on our road maintenance. Our goal is to implement a pavement preservation road plan in the future.

Progressive Pavement Management



The Town of Bowdoinham is responsible for about 30 miles of roads. If the Town wants to maintain a 10-year maintenance plan, the Town should be paving 3 miles of road per year.

To pay for this paving, the Town will need to raise \$300,000 to \$400,000 per year to pave 3 miles of roads a year. If the Town had to borrow this funding every year, we would add \$45,000 in annual debt payments per \$350,000 bond and pay \$100,000 in interest. This would ultimately add \$450,000 to the Town's annual debt service payment: year 1- \$45,000, year 2 - \$90,000, year 3 - \$135,000, year 4- \$180,000, year 5 - \$225,000, year 6 - \$270,000, year 7 - \$315,000, year 8 - \$360,000, year 9 - \$405,000, year 10+ - \$450,000.

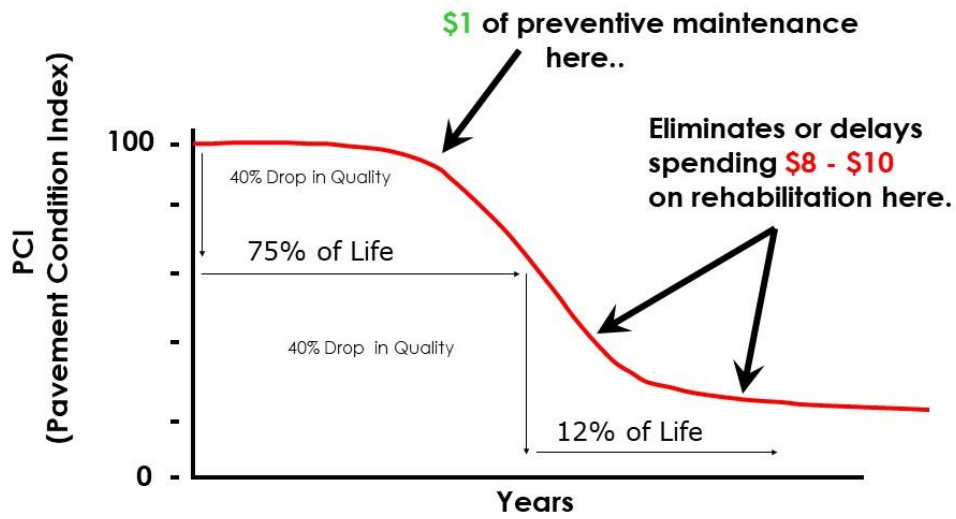
Instead of borrowing, we're recommending that the Town include \$350,000 per year for road maintenance in its operating budget. This would save the Town approximately \$100,000 in interest per bond and \$450,000 per year in the operating budget long term, greatly reducing interest expense and ultimately helping to control resident taxes.

TEN YEAR ROAD MAINTENANCE PLAN

Road Name	Length (miles)	Estimated Cost	Year Scheduled	Work Proposed
Cemetery Road	0.4	\$50,000	2023	Surface Coat
Center St	0.4	\$50,000	2023	Surface Coat
Ridge Road - 1	0.2	\$20,000	2023	Surface Coat
Ridge Road - 4	2	\$140,000	2023	1/4 Width Shim (Rutting)
Browns Point - 1	2	\$140,000	2023	1/4 Width Shim (Rutting)
Fisher Road	1.8	\$130,000	2023	1/4 Width Shim (Rutting)
Dingley Road - 2	0.2	\$50,000	2023	Base Pave
15% Contingency		\$87,000		
Engineering		\$10,000		Project Bidding & Construction Administration
FY23 Total	4	\$677,000		
Pork Point Road	2.4	\$310,000	2024	1.25" Surface Coat & Shoulders
Dingley Road	1.6	\$175,000	2024	1.25" Surface Coat & Shoulders
Carding Machine Rd - 2	1.4	\$175,000	2024	1.25" Surface Coat & Shoulders
Wildes Road	0.8	\$90,000	2024	1.25" Surface Coat & Shoulders
Abagadasset Road	1	\$100,000	2024	1.25" Surface Coat & Shoulders
15% Contingency		\$127,500		
Engineering		\$10,000		Project Bidding & Construction Administration
FY24 Total	7.2	\$987,500		
Ridge Road - 2 & 3	4	\$200,000	2025	1/4 Width Shim (Rutting)
Millay Road	3	\$150,000	2025	1/4 Width Shim (Rutting)
Carding Machine Rd - 1	1.4	\$75,000	2025	1/4 Width Shim (Rutting)
South Pleasant St	0.8	\$50,000	2025	1/4 Width Shim (Rutting)
15% Contingency		\$71,250		
Engineering		\$10,000		Project Bidding & Construction Administration
FY25 Total	9.2	\$556,250		
Fisher Road	1.8	\$175,000		3/4" Full Width Shim
Browns Point Road	2	\$200,000		3/4" Full Width Shim
South Pleasant St	0.8	\$100,000		3/4" Full Width Shim
15% Contingency		\$71,250		
Engineering		\$10,000		Project Bidding & Construction Administration
FY26 Total	4.6	\$556,250		
Ridge Road - 4	2	\$200,000		3/4" Full Width Shim
Carding Machine Rd - 1	1.4	\$150,000		3/4" Full Width Shim

Dinsmore Cross Road	0.3	\$50,000		3/4" Full Width Shim
15% Contingency		\$60,000		
Engineering		\$10,000		Project Bidding & Construction Administration
FY27 Total	3.7	\$470,000		
Ridge Road - 2 & 3	4	\$400,000		3/4" Full Width Shim
15% Contingency		\$60,000		
Engineering		\$10,000		Project Bidding & Construction Administration
FY28 Total	4	\$470,000		
Millay Road	3	\$300,000		3/4" Full Width Shim
Back Hill Road	0.1	\$150,000		Reconstruct
School Street	0.1	\$150,000		3/4" Full Width Shim & Stormwater Infrastructure
15% Contingency		\$90,000		
Engineering		\$10,000		Project Bidding & Construction Administration
FY29 Total	3.2	\$700,000		
Church Street	0.05	\$20,000		3/4" Full Width Shim
Lucas Lane	0.15	\$25,000		3/4" Full Width Shim OR Chip Seal
Preble Road	0.4	\$60,000		3/4" Full Width Shim
Spear Drive	0.2	\$30,000		3/4" Full Width Shim OR Chip Seal
Wildes Road	0.8	\$35,000		Chip Seal
Abagadasset Road	1	\$35,000		Chip Seal
Carding Machine Road	3.8	\$200,000		Chip Seal
15% Contingency		\$60,750		
Engineering		\$10,000		Project Bidding & Construction Administration
FY30 Total	5.8	\$475,750		

Life of a Pavement



Asphalt Deterioration Curve

Applying the Right Treatment, to the Right Road, at the Right Time...

