

March 2023

---

# **Pavement Management Study (2022)**

---

**NORTHBOROUGH, MASSACHUSETTS**

---

**PREPARED BY:**

Woodard & Curran, and  
Baden Consulting Services, LLC

**PREPARED FOR:**

Mr. Scott Charpentier, P.E.  
Director of Public Works  
Town of Northborough  
63 Main Street  
Northborough, MA 01532

## TABLE OF CONTENTS

<b>INTRODUCTION .....</b>	<b>1</b>
<i>Theory of Pavement Management .....</i>	<i>2</i>
The Pavement Deterioration Curve .....	2
<b>METHODOLOGY.....</b>	<b>3</b>
<i>Network Identification .....</i>	<i>3</i>
<i>Pavement Management Section Identification .....</i>	<i>3</i>
<i>Surface Distress Assessment.....</i>	<i>4</i>
PCI Defined.....	4
<i>The Five Treatment Bands.....</i>	<i>5</i>
<i>Preparing Budget Scenarios .....</i>	<i>7</i>
Customizing Repair Strategies and Costs .....	8
Deterioration Curves .....	8
Project Prioritization.....	8
<b>EXISTING CONDITIONS.....</b>	<b>9</b>
<i>Town-maintained Road Conditions.....</i>	<i>9</i>
PCI History.....	10
<i>Backlog of Work.....</i>	<i>11</i>
<i>Conditions Mapped.....</i>	<i>13</i>
<b>BUDGET ANALYSIS.....</b>	<b>15</b>
<i>Scenarios Explored.....</i>	<i>15</i>
Scenario Detail .....	16
<i>Summary of Scenario Results .....</i>	<i>17</i>
<b>SUMMARY.....</b>	<b>19</b>
<b>APPENDIX A.....</b>	<b>.....</b>
<i>Pavement Backlog Report (by Street Name) .....</i>	<i>.....</i>
<b>APPENDIX B.....</b>	<b>.....</b>
<i>Pavement Backlog Report (PCI Ascending).....</i>	<i>.....</i>
<b>APPENDIX C.....</b>	<b>.....</b>
<i>Unit Costs .....</i>	<i>.....</i>
<b>APPENDIX D.....</b>	<b>.....</b>
<i>3-Year Capital Plan .....</i>	<i>.....</i>

---

# 1

## Introduction

---

Woodard & Curran, and their subconsultant, Baden Consulting Services, LLC (collectively, The Consultant) were hired by the Town of Northborough to perform an update to the Town's pavement management program. The project is part of an on-going cycle of services to evaluate the roads, develop roadway maintenance and capital improvement plans, and annually assist with contracting and implementing the construction phase. This report will document the process and results of the "network level" pavement management evaluation, which includes development of a pavement management database, performing a condition rating on all Town maintained paved roadways, analysis of the road network conditions, budget analysis, and the steps in road program development.

Coincident to the development of this report, the Consultant worked with the Town to develop a 3-year roadway improvement plan, which is where the pavement management services move from the high level "network level" study phase, to the "project level" phase where project specifics are determined, bid documents are prepared, and contracts and specifications are completed.

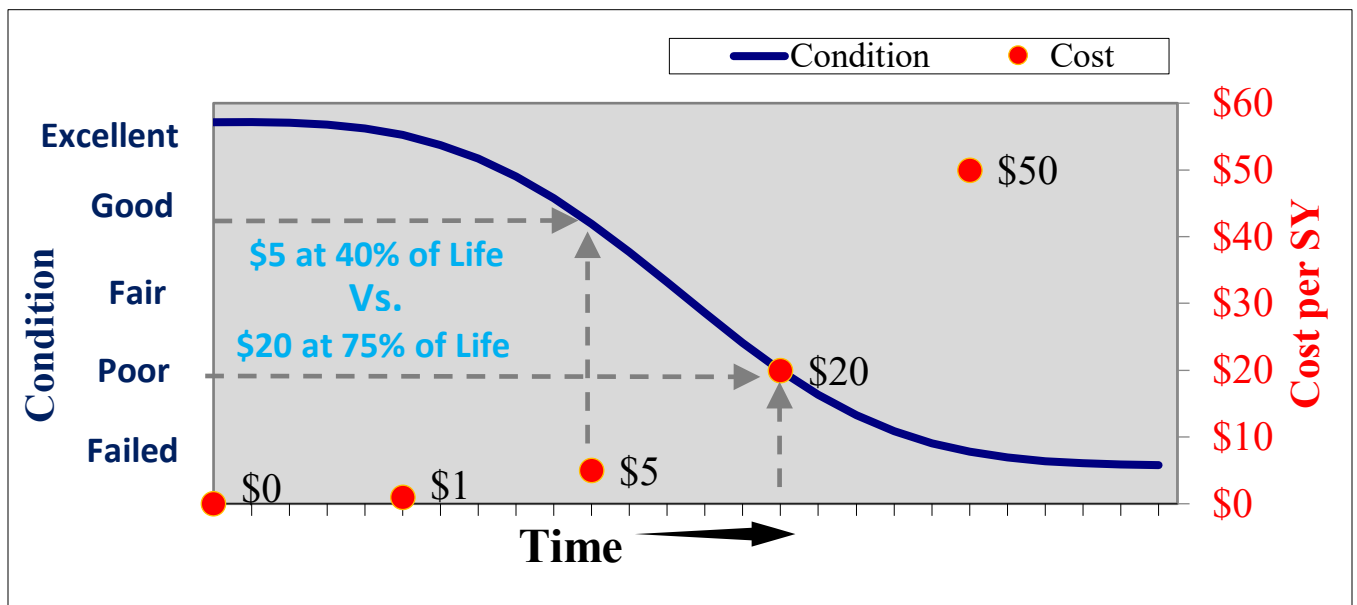
# Theory of Pavement Management

Pavement management is the practice of planning for pavement repairs and maintenance with the goal of maximizing the value and life of a pavement network. To accomplish this, a community needs to have several repair techniques in its arsenal and the knowledge of when to apply them. This is where pavement management comes into play. With a comprehensive database of road conditions, the pavement management software can model when to perform which repairs on a road network. Of course, engineering judgment is required to finalize any list of Road repairs, as no computer model can take every variable analyzed in making a repair decision into account.

## The Pavement Deterioration Curve

Below is a model of how a road's pavement deteriorates over time. Interpreting the curve, a Road starts out in excellent condition when it is newly constructed. Midway through its life, a lower cost repair such as surface treatment would maintain the road and cost approximately \$5.00 per square yard. It takes only a few years for the window of opportunity to perform this low-cost maintenance to pass after which the road would need an overlay or a mill and overlay costing approximately \$20 per square yard. By performing timely maintenance, road conditions can be improved today thereby extending the life of the road. The unit costs shown below are typical ballpark costs. Northborough's current unit costs are shown in Appendix C.

**PAVEMENT DETERIORATION VS COST (TYPICAL)**



---

# 2

## Methodology

---

Having first developed their pavement management system in 2012 using similar methodology as the current study, many of the following steps have been previously completed. However, most of the steps are revisited and updated as appropriate during the system update. As all these steps are relevant to understanding the basis of the analysis currently presented, they are described here.

### **Network Identification**

Network Identification builds an inventory of Roads that describe the municipality's complete roadway network. The direction of travel, Road length, width, one-way status, ownership, functional classification, zone, and pavement type are among the items identified at this initial phase in the pavement management process. This integral step ensures the roads surveyed are the definitive set to be analyzed.

### **Pavement Management Section Identification**

Each road contains one or more pavement management sections. A pavement management section defines the limits of previous construction or maintenance activities within each road.

Sections are defined by having the same width, typical distresses, functional class, etc. The goal is to set up homogenous areas of pavement to aid in assigning the appropriate repair. A road may be one section, or it may be comprised of several pavement management sections, depending on its construction history.

## Surface Distress Assessment

For each pavement management section, the severity and extent of nine major pavement distresses are recorded, and then entered into a weighted formula to arrive at a Pavement Condition Index (PCI). The distresses are categorized as base related or surface related distresses. Base related distresses indicate that the pavement structure is inadequate for the existing traffic load and soil conditions. Roads that show significant base related distresses may need to have the pavement structure strengthened with either thicker or stronger base or pavement materials. Surface related distresses are caused by age and weathering of the pavement. Roads that have predominantly surface related distresses are excellent candidates for maintenance sealing to inhibit further pavement oxidization (the main effect of aging). Roads with more of the base related distresses will most likely need some full depth patching, structural overlays, or reclamation/reconstruction.

### The four base related stresses are:

---

- Potholes
- Alligator cracking
- Distortion
- Rutting

### The five surface related distresses are:

---

- Block Cracking
- Transverse and Longitudinal Cracking
- Bleeding or Polished Aggregate
- Surface Wear or Raveling
- Corrugations, Shoving, or Slippage

## PCI Defined

A PCI was generated for each inventoried pavement management section in Northborough using the surface distress. PCI is measured on a scale of zero to one hundred, with one hundred representing a pavement in perfect condition and zero describing a road in impassable condition. Each type of observed pavement distress is assigned a deduct value based on the type, severity, and extent of the distress.

A weighted sum of the deduct points is subtracted from the perfect “one hundred” road in order to generate a PCI for each pavement management section. In general, base related (pavement foundation) distresses are weighted more heavily than surface related distresses.

**PCI Is Calculated as:**

$$100 - (\text{Highest Deduct Value}) - (25\% \text{ of remaining base related deduct values}) - (10\% \text{ of remaining surface related deduct values})$$

## The Five Treatment Bands

The pavement management system uses broad ranges to group the individual repair types into five major treatment bands. Treatment bands are a useful tool to summarize data on a Town-wide basis. An individual road segment will fall into a particular category based on the strategy table’s output of repair types and will vary due to functional classification.

### TREATMENT BAND DESCRIPTIONS

Treatment Band	PCI	Description
<b>Do Nothing</b>	93-100	Excellent condition - in need of no maintenance
<b>Routine Maintenance</b>	83-92	Good condition – may be in need of crack sealing or minor localized repair
<b>Preventive Maintenance</b>	73-82	Fair condition – pavement surface may be in need of surface treatment, full depth patch and/or crack sealing
<b>Structural Overlay</b>	56-72	Deficient condition – pavement surface structure in need of added strength for existing traffic. Typical repairs are overlay with or without milling or levelling
<b>Base Rehabilitation</b>	0-55	Poor condition – in need of base improvement. Typical repairs are reclamation or full depth reconstruction

\* These are general PCI ranges for reference purposes and represent only one pavement type. There are several factors considered by the system when assigning repair types to each individual road.

### **Do Nothing**

The Do Nothing category exhibits roads which are in need of no maintenance. These roads are in excellent condition and existing distresses generally do not need to be addressed.

### **Routine Maintenance**

Routine maintenance activities are those which are taken to correct a specific pavement distress. Routine maintenance usually addresses localized pavement defects and includes activities such as:

- Full depth patching;
- Skin patching;
- Crack sealing.

### **Preventive Maintenance**

Preventive maintenance activities are those which are performed at planned intervals to protect and seal the pavement. Seals are designed to provide one or more of the following benefits:

- Prevent the intrusion of air and moisture;
- Fill small cracks and voids;
- Rejuvenate an oxidized binder;
- Provide a new wearing surface.

### **Structural Improvement**

Structural improvement includes the work necessary to restore the pavement to a condition that will allow it to perform satisfactorily for several years. Generally, a structural improvement will consist of a milling the existing pavement down and applying a new Hot Mix Asphalt Overlay allowing existing grades to be maintained. When the existing grade can be increased a new Hot Mix Asphalt course can simply be placed upon the existing surface. Structural improvements also include the work necessary to prepare the pavement for an overlay, either with or without milling. The major activities involved in the rehabilitation process are:

- Partial depth patching;
- Full depth patching;
- Joint and crack sealing;
- Grinding and milling ;
- Hot Mix Asphalt Leveling Courses.



### **Base Rehabilitation**

Base rehabilitation typically utilizes one of two methods:

- Reclamation; with or without fortifying the base with aggregate or additives
- Reconstruction.

Reclamation is the process of rehabilitating existing deteriorated pavements. The existing pavement and base, subbase, and possibly subgrade are pulverized and blended to create a homogenous pavement base. This reclaimed pavement base is then paved with a new Hot Mix Asphalt surface. Reconstruction is the complete removal and replacement of a failed pavement, and might also involve widening, realignment, traffic control devices, safety hardware, and major base and drainage work.

## **Preparing Budget Scenarios**

Once the roadway conditions are inventoried and analyzed, and the repair strategies are defined, the impact of various spending programs on the road network can be assessed. These studies can range from 1 to 20 years, however, for this report, 5-year studies are used. The purpose of the budget planning process is to determine the impact of various spending levels to find a funding level that will best meet Northborough's needs. Deterioration curves, unit costs, and the strategy table developed in the repair strategy definition phase are used to assign each road a repair type and associated cost for each year of the study. Each road is also assigned a benefit value that is used to determine which roads the software assumes will be repaired each year. It is important to understand that this study is a network-wide planning tool. Field verification and testing are recommended to confirm any road repair list generated.

Pavement management deals with the life cycle of pavement structure and the various repair treatments to maintain the condition of the pavement. The pavement management system and the various repair types utilized in the study do not directly address other physical improvements associated with a roadway. Some of the items, which might be encountered on a roadway project, include the storm drainage system, traffic signals, minor traffic items, sidewalks, and utility adjustments. In an attempt to develop a reasonable cost of various improvements, the overall scope of a typical project associated with the various repair types was estimated to develop a network-level unit cost for the work. The actual scope of work and costs will vary for each individual roadway. Actual repair costs will need to be developed at the project level and may differ from the costs utilized in this study.

## **Customizing Repair Strategies and Costs**

Through the maintenance of the Town's pavement management system, a custom pavement maintenance and rehabilitation strategy has been developed to assist in the automated generation of project candidates and budget analysis. The strategy takes into account the surface type, condition, functional class, and other attributes and assigns a maintenance or rehabilitation category to each roadway segment.

## **Deterioration Curves**

In order to properly plan for future repairs, the budget analysis feature of the pavement management system uses deterioration curves. The deterioration curves estimate the rate at which the pavement condition decreases over time. In the pavement management system, each pavement segment can be assigned a custom curve, however, as is more common, families of curves are developed for roads of common pavement type and functional class.

## **Project Prioritization**

The budget analysis software prioritizes needed system repairs based on a calculated project "Benefit Value". The Benefit Value is calculated using variables representing traffic volume, repair service life, PCI, and unit repair costs for each pavement management section. For each plan year, the software prepares a future roadway condition projection, exhausts the assigned budget, and then produces an annual list of roads included in the repair program. The Benefit Value prioritization process generally favors cost effective maintenance alternatives. Repair actions are typically delayed on those sections that require reconstruction or major rehabilitation because the benefits for dollars spent are generally lower than maintenance candidates. After the relatively good roads are "saved", improvements are directed towards the poorer arterial and collector roads, and then to the local roads in need of major rehabilitation.

**The Benefit Value is calculated as:**

$$\textit{Benefit Value} = \frac{\textit{ADT} * \textit{Life of Repair}}{\textit{PCI} * \textit{Unit Cost of Repair}}$$

---

# 3

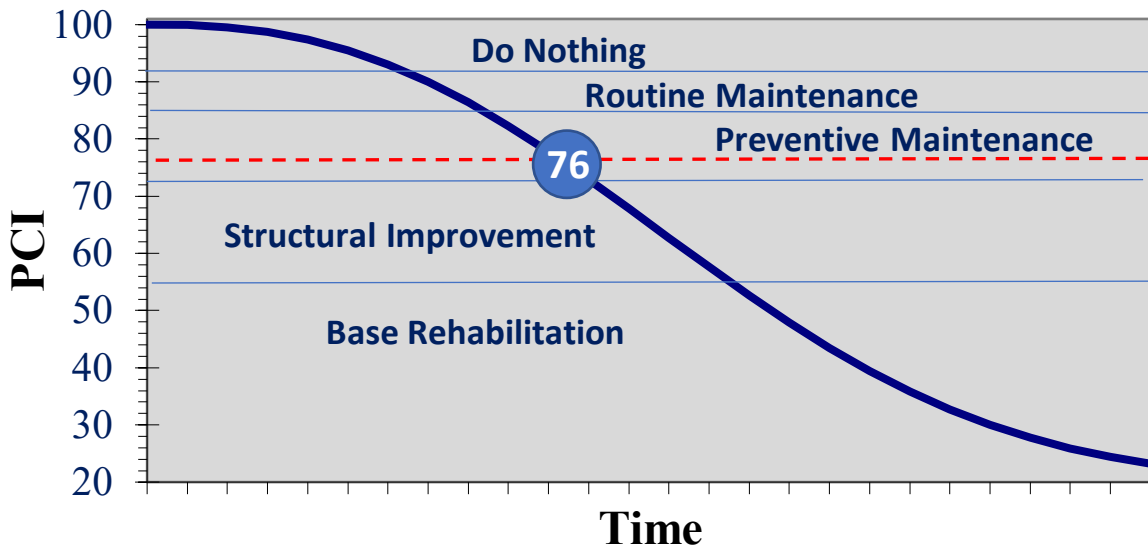
## Existing Conditions

---

### Town-maintained Road Conditions

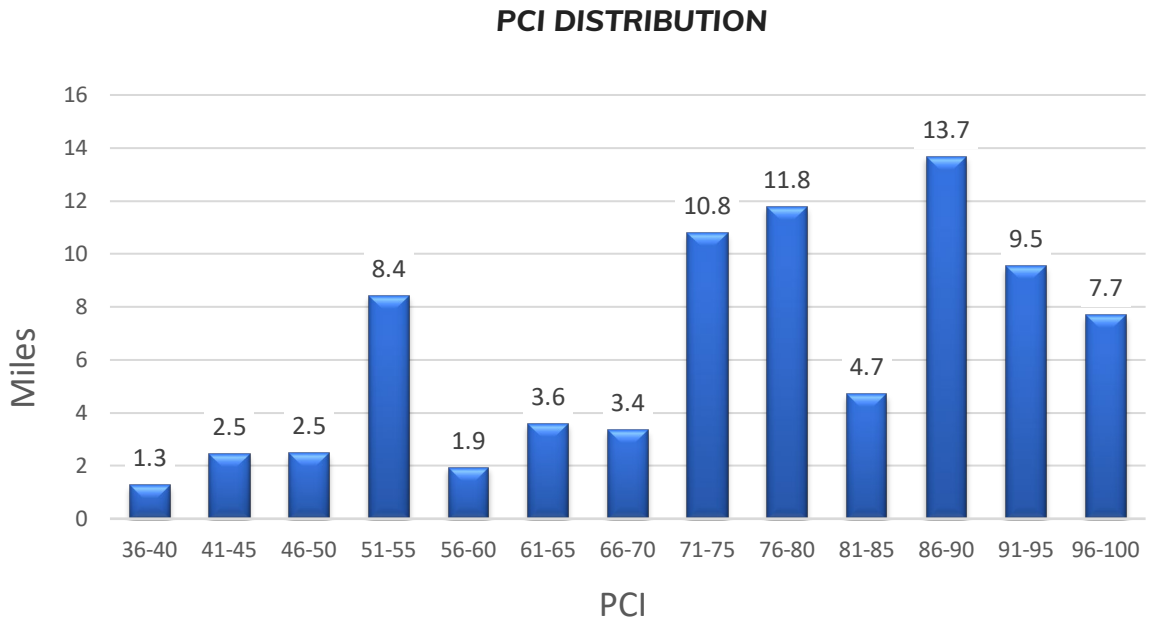
Based on the recent pavement inspections performed in 2022, **the average Pavement Condition Index (PCI) for Northborough roads is a 76**. For context, the following chart shows where the Town's average lies in terms of the treatment bands described in the previous section.

AVERAGE PCI VS TREATMENT BANDS



The preceding chart suggests that the "average" road in Northborough is in need of preventive maintenance, and if not soon addressed, the dollar backlog of work could increase quickly if the average road were to slip into the Structural Improvement category.

To give more detail to the conditions making up the 76 average, the following chart shows a breakdown of the condition of the roads by summing the number of miles of roadway into bands of 5 PCI points.

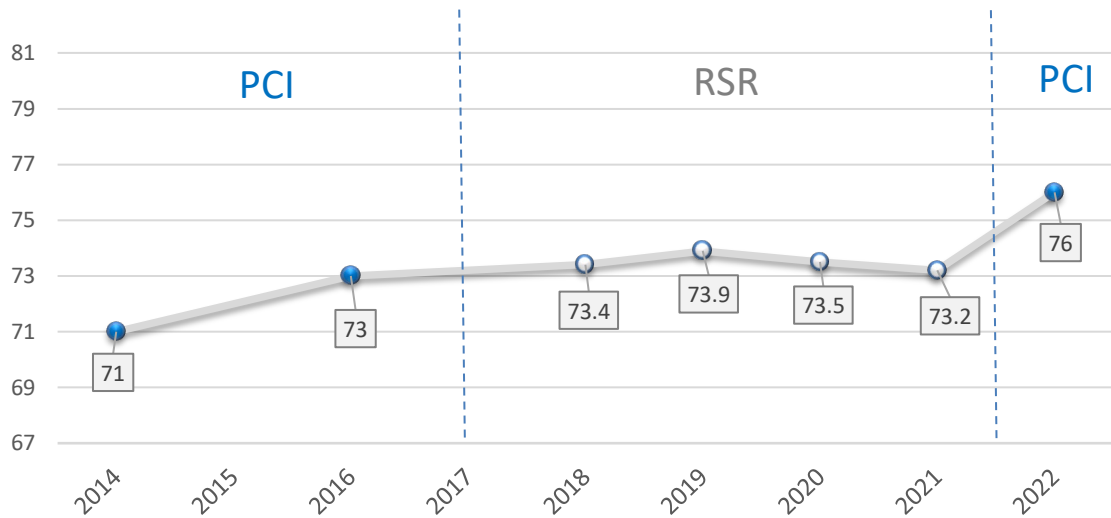


The large number of road miles in the highest PCI bands is a testament to the investment and effort the Town puts into the road network, while the distribution of mileage across the lower PCI bands are a reminder of the maintenance and improvement still needed to prevent roads from failing over time.

### **PCI History**

Since Northborough began tracking pavement conditions in 2014, the PCI first increased and then began to lose ground after 2019. In 2022, the Town went to a different condition rating method (RSR to PCI), so the jump in the rating may not be indicative of an actual improvement in conditions.

### HISTORIC PCI



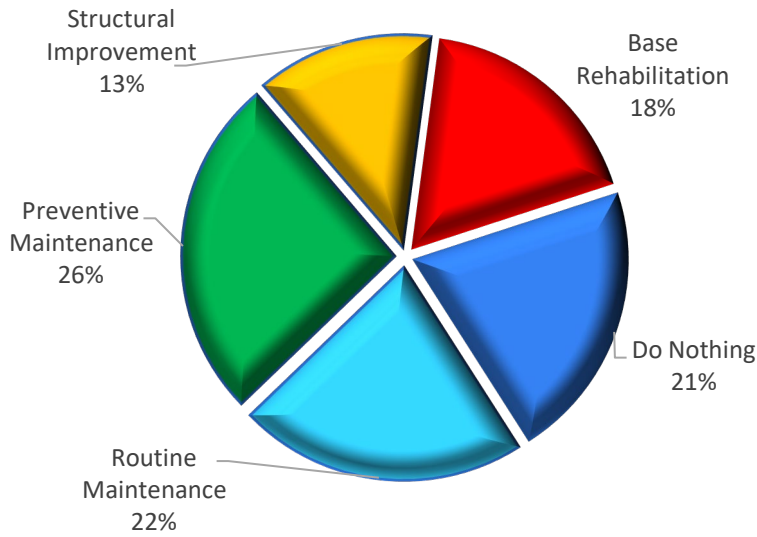
## Backlog of Work

Applying the five treatment bands shown in Table 1 and the unit costs shown in Appendix C to Northborough’s road network, the following table gives the miles and dollars associated with each treatment band for the conditions at the time of the analysis. Placement of a road into a treatment band is not based solely on PCI.

### PAVEMENT BACKLOG SUMMARY

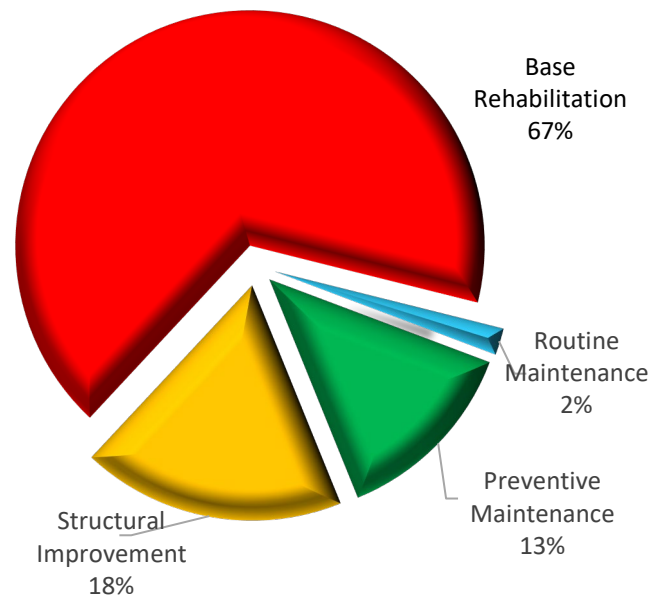
Treatment Band	Miles	Dollar Backlog
Do Nothing	17.1	
Routine Maintenance	17.8	\$275,000
Preventive Maintenance	21.2	\$1,972,000
Structural Improvement	10.9	\$2,714,000
Base Rehabilitation	14.6	\$10,042,000
<b>Totals:</b>	<b>81.7</b>	<b>\$15,003,000</b>

The following two figures present the preceding information graphically.



**<- PERCENT MILES IN EACH TREATMENT BAND**

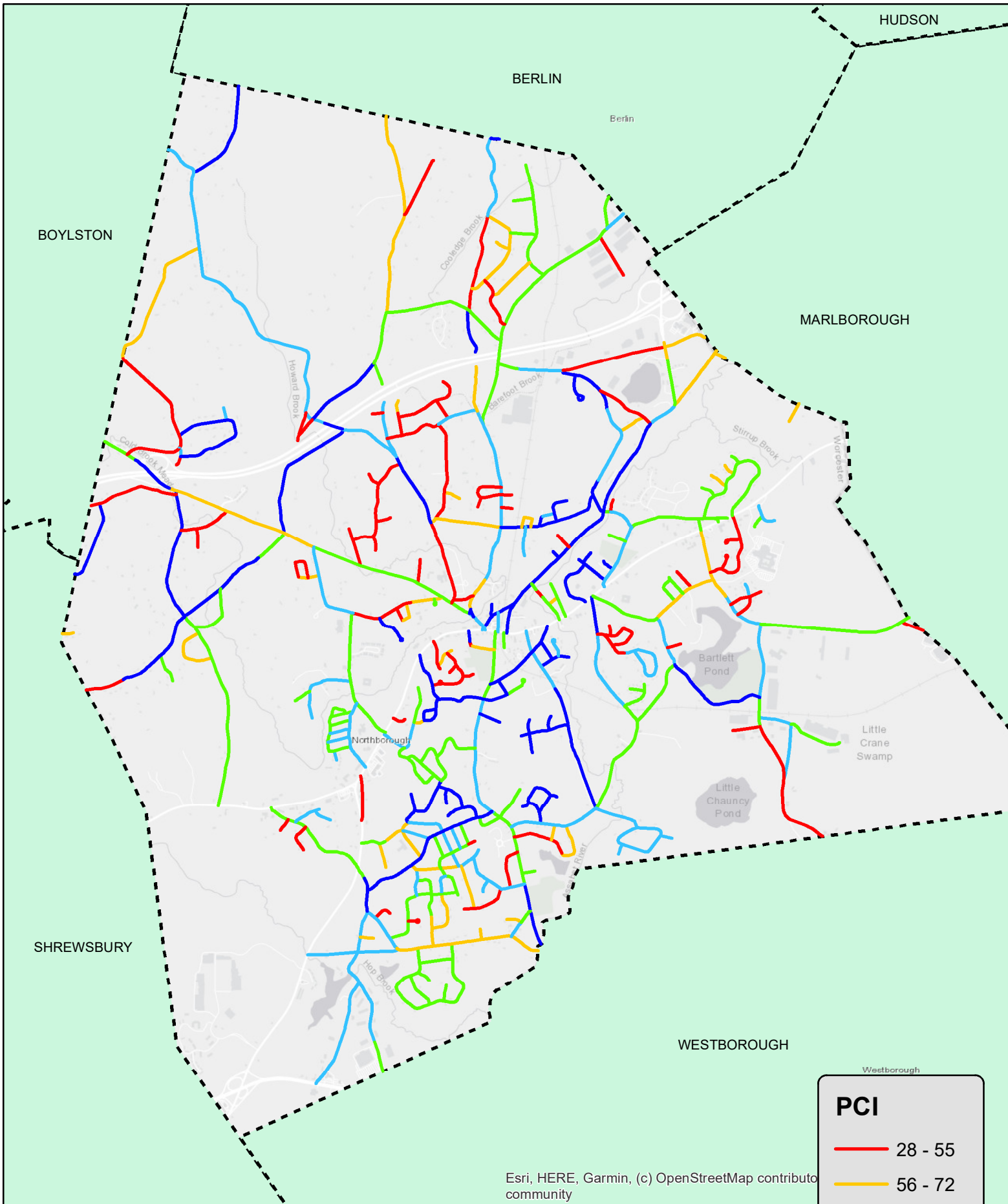
**PERCENT COST IN EACH TREATMENT BAND ->**



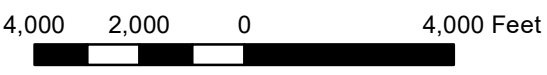
These charts demonstrate that while only approximately 18% of the Town's roads are in need of Base Rehabilitation, they account for 67% of the outstanding backlog of work, emphasizing the importance of preventing roads from deteriorating to this level. Also of note, is that a little less than half of the Town's miles could benefit from routine and preventative maintenance treatments. It makes good fiscal sense to spend the funds to extend the lives of the large number of roads in these treatment bands.

## **Conditions Mapped**

The Town's pavement management inventory is linked to a GIS system, allowing for the creation of thematic maps including maps of condition, repair history, capital plans, etc.. The following page includes a map of Town roads colored by PCI ranges, which generally correspond to the five treatment bands previously described.



Esri, HERE, Garmin, (c) OpenStreetMap contributors, community



FORMAT: 8.5x11 Portrait



PCI	
<span style="color: red;">—</span>	28 - 55
<span style="color: orange;">—</span>	56 - 72
<span style="color: green;">—</span>	73 - 82
<span style="color: lightblue;">—</span>	83 - 92
<span style="color: darkblue;">—</span>	93 - 100



---

# 4

## Budget Analysis

---

The pavement management system is able to predict the effect that given funding levels will have on the road network. The most common point of analysis for budget analysis are the year-by-year projected town-wide average PCI. The results of some specified funding levels are presented in the section below.

### Scenarios Explored

The consultant projected the PCI for three 5-year scenarios.

#### **\$500,000 per year**

This scenario examines the potential result of spending only Chapter 90 funds on road maintenance and rehabilitation.

#### **\$800,000 per year**

This scenario predicts the effect of supplementing the expected Chapter 90 funding annually with \$300,000 from the operating budget.

#### **\$1,100,000 per year (Current Funding Level)**

This scenario predicts the effect of supplementing the expected Chapter 90 funding annually with \$300,000 from the operating budget and \$300,000 in the Capital Plan.

## Scenario Detail

The following tables will outline the specific annual funding levels used in the budget scenarios and show the projected results of them.

### \$500,000 PER YEAR

Date	Budget	Avg PCI	Backlog
2022		76	\$15,003,000
2023	\$500,000	75	\$16,821,000
2024	\$500,000	74	\$18,700,000
2025	\$500,000	73	\$19,935,000
2026	\$500,000	72	\$21,026,000
2027	\$500,000	71	\$21,769,000

### \$800,000 PER YEAR

Date	Budget	Avg PCI	Backlog
2022		76	\$15,003,000
2023	\$800,000	76	\$16,521,000
2024	\$800,000	75	\$18,039,000
2025	\$800,000	75	\$18,837,000
2026	\$800,000	75	\$19,621,000
2027	\$800,000	75	\$20,056,000

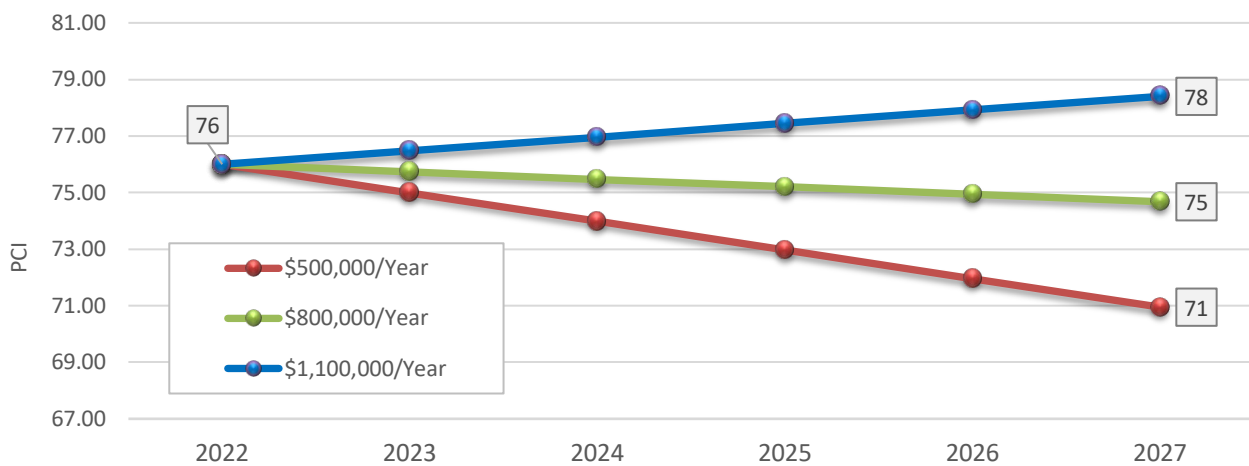
### \$1,100,000 PER YEAR

Date	Budget	Avg PCI	Backlog
2022		76	\$15,003,000
2023	\$1,100,000	76	\$16,221,000
2024	\$1,100,000	77	\$17,308,000
2025	\$1,100,000	77	\$17,807,000
2026	\$1,100,000	78	\$18,225,000
2027	\$1,100,000	78	\$18,356,000

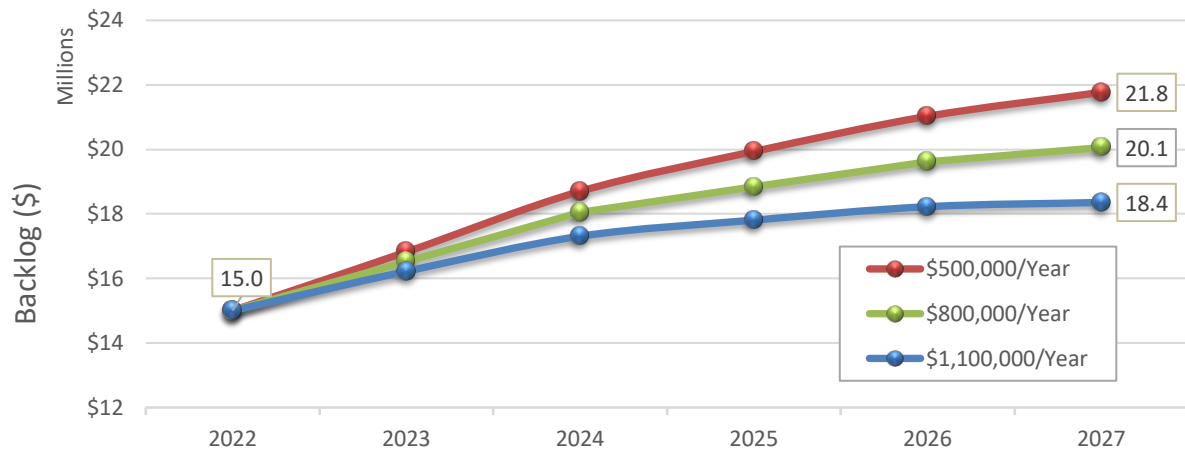
# Summary of Scenario Results

The effects of the budget scenarios are most easily understood when charted. The following charts show the trend in overall conditions, and in dollar backlog for the scenarios explored:

### PROJECTED AVERAGE PCI



### PROJECTED BACKLOG



The analysis indicates that the current budget of \$1.1 Million per year would yield a slow improvement in town-wide roadway conditions in the form of a 2-point increase over the 5-year study period. This funding level would also ultimately stop the annual increase in dollar backlog and overcome the assumed 3% annual inflation. The \$500K and \$800K per year scenarios would not maintain current conditions, nor prevent the outstanding dollar backlog of repair from increasing.

---

# 5

## Summary

---

The Town of Northborough has a pavement management system based on road condition data updated in 2022. The Northborough pavement management system gives Town decision-makers a picture of existing roadway infrastructure conditions and a dollar estimate to improve Roads in poor condition while protecting those pavements currently in good condition.

The Pavement Management System being implemented by the Town is a planning tool, with primary functions of determining the funding levels required to achieve Town-wide condition goals and to identify candidate road projects to achieve those goals. Any project list generated by the system needs to be reviewed by the Engineering Department staff and adjusted based on numerous factors, including coordination with utility work, and geographic considerations.

The following bullets provide a quick summary of the status of Northborough's pavement management system.

- The Town currently has **81.7 centerline miles** of Town Accepted roadway.
- The current **average PCI is 76**, which is an improvement over the 71 reported in 2014.
- The Backlog of Work, meaning the cost to address all roads today that would benefit from maintenance or rehabilitation, is approximately **\$15.0 Million**.

- Based on pavement management software generated projections, **the current \$1,100,000/year budget is projected to maintain or slowly improve town-wide pavement conditions over the next five years.** Removing any of the current funding sources would allow a decline in conditions.
  
- It is recommended that the Town:
  - Continue to update the pavement management system regularly so that budgetary and project planning decisions are made on current data.
  
  - Do not neglect maintenance on roads in good/fair condition or roads paved 5-10 years ago, so their high PCI can be extended cost-effectively.
  
  - Address local base problems before overlaying roads.
  
  - Perform project level testing prior to rehabilitation projects to determine if in-place and new materials will be suitable to ensure proper life of new pavement.
  
  - Continue expanding the breadth of pavement treatment alternatives being employed in order to avoid or delay the need for costly resurfacing or reconstruction on roads starting to deteriorate. Surface Treatments are a valuable tool to help the Town maintain the current road network on its budget.
  
  - As appropriate, implement a paving quality control / quality assurance program to ensure that the Town gets the expected return on investment from roadway capital projects.

# Appendix A

---

## **Pavement Backlog Report (by Street Name)**

## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Abenaki Rd	Indian Meadows Dr (E)	Indian Meadows Dr (W)	Prev. Maint. Surfacing	989	80	\$17,623	3
Adams Rd	Meadow Rd	Wilson Rd	Prev. Maint. Surfacing	769	76	\$12,180	18
Agawam Dr	Indian Meadows Dr	Cul De Sac	Prev. Maint. Surfacing	413	75	\$10,675	4
Alcott Dr	South St	Emerson Rd	Reclaim & Pave	1,242	50	\$178,277	10
Allen Ct	Allen St	Dead End	Reclaim & Pave	375	41	\$57,601	2
Allen St	E Main St	Allen Ct	Routine Maint.	818	89	\$1,511	395
Allen St	Allen Ct	Hudson St	Prev. Maint. Surfacing	205	80	\$3,792	83
Allen St	Hudson St	Rice Ave	Do Nothing	576	100	\$0	0
Assabet Dr	South St	Beverly Rd	Do Nothing	737	98	\$0	0
Assabet Dr	Beverly Road	Cul De Sac Loop	Prev. Maint. Surfacing	835	75	\$15,423	4
Assabet Hill Cir	Westbrook Rd	Wheelwright Dr	Reclaim & Pave	1,421	38	\$210,960	13
Assabet Hill Cir	Wheelwright Dr	Liberty Dr	Reclaim & Pave	466	48	\$69,241	10
Assabet Hill Cir Loop	Assabet Hill Circle W	Assabet Hill Circle E	Reclaim & Pave	173	54	\$22,264	9
Babcock Dr	Whitney St	Cherlyn Dr	Reclaim & Pave	1,540	52	\$198,185	9
Balcom Dr	Route 20	Cul De Sac	Reclaim & Pave	378	52	\$66,873	2
Ball St	Church St	Woodstone Rd	Reclaim & Pave	2,049	51	\$314,398	10
Ball St	Woodstone Rd	Rocky Pond Rd	Reclaim & Pave	2,925	48	\$289,526	10
Ball St	Rocky Pond Rd	1664' S Of Green St	Mill & Overlay	2,594	68	\$91,313	11
Ball St	1664' S Of Green St	Green St	Mill & Overlay	1,664	66	\$58,569	11
Ball St 1	Ball St	Woodstone Rd	Routine Maint.	263	90	\$345	16
Ball St 1	Woodstone Rd	Cul De Sac	Reclaim & Pave	284	53	\$35,677	2
Bartlett St	E Main St	Main St	Prev. Maint. Surfacing	337	75	\$7,117	18
Bartlett St	Main St	530' S Of Maple St	Mill & Overlay	2,133	71	\$120,123	53
Bartlett St	530' S Of Maple St	Lyman St	Routine Maint.	1,391	88	\$4,391	399
Bartlett St	Lyman St	Town Line	Prev. Maint. Surfacing	4,495	73	\$121,617	91
Bear Foot Rd	Solomon Pond Rd	Colburn St	Reclaim & Pave	3,089	54	\$611,562	45
Bear Foot Rd	Colburn St	582' E of Whitney Stt	Routine Maint.	1,363	88	\$4,199	399
Bear Foot Rd	582' E of Whitney St	Whitney St	Prev. Maint. Surfacing	583	82	\$9,227	81
Beeman Rd	Talbot Rd	Cul De Sac	Prev. Maint. Surfacing	1,630	75	\$36,653	4
Berlin Rd	Whitney St	Town Line	Prev. Maint. Surfacing	966	73	\$14,025	91
Beverly Rd	Summer St	Assabet Dr	Do Nothing	485	99	\$0	0
Birch Hill Rd	Crestwood Dr	Woodland Rd	Prev. Maint. Surfacing	1,820	78	\$28,827	17
Blake St	Route 20	Pierce St	Routine Maint.	586	90	\$1,263	78
Blueberry Ln	Hemlock Dr	Cul De Sac Loop	Reclaim & Pave	613	43	\$81,922	2
Boundary St	Hudson St	Town Line	Mill & Overlay	341	56	\$15,003	67
Brendon Dr	Catherine Dr	Cul De Sac	Do Nothing	423	98	\$0	0



## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Brewer St (N)	Cul De Sac	Green St (W)	Reclaim & Pave	760	42	\$70,259	2
Brewer St (N)	Green St (W)	Howard St	Do Nothing	2,492	95	\$0	0
Brewer St (S)	Church St	1915' S Of Green St (E)	Do Nothing	2,083	100	\$0	0
Brewer St (S)	1915' S Of Green St (E)	Green St (E)	Do Nothing	1,915	100	\$0	0
Bridle Path Dr	Davis St	Cul De Sac	Mill & Overlay	306	56	\$22,600	3
Brigham St	Route 20	Leland Dr	Do Nothing	1,100	94	\$0	0
Brigham St	Leland Dr	Fairway Dr	Routine Maint.	2,446	88	\$4,143	399
Brigham St	Fairway Dr	School St	Prev. Maint. Surfacing	3,529	80	\$48,905	83
Brigham St	School St	South St	Routine Maint.	2,699	88	\$4,987	399
Buckhill Rd	Old Colonial Rd	Cul De Sac	Routine Maint. (w/Patch)	543	84	\$3,106	9
Capt John Edwards Dr	Pleasant St	Cul De Sac Loop	Do Nothing	1,112	98	\$0	0
Captain Eager Dr	Otis St	Cul De Sac	Mill & Overlay	386	64	\$27,642	2
Carriage Hill Rd	Iroquois Dr	400' E Of Iroquois Dr	Reclaim & Pave	400	51	\$53,456	2
Carriage Hill Rd	400' E Of Iroquois Dr	Cul De Sac	Reclaim & Pave	1,746	41	\$234,407	2
Carruth Dr	Whitney St	Cul De Sac	Reclaim & Pave	329	49	\$66,978	2
Castle Rd	Reservoir St	Town Line	Do Nothing	2,407	95	\$0	0
Catherine Dr	School St	Brendon Dr	Do Nothing	583	100	\$0	0
Catherine Dr	Brendon Dr	Kristyn Dr	Do Nothing	588	100	\$0	0
Catherine Dr	Kristyn Dr	Cul De Sac	Do Nothing	247	99	\$0	0
Cedar Hill Rd	Bartlett St	Town Line	Reclaim & Pave	681	47	\$94,380	52
Cedar Hill Rd	South St	Cedar Hill Road (Loop)	Do Nothing	2,899	100	\$0	0
Chapin St	Rice Ave	Colburn St	Mill & Overlay	796	62	\$26,616	12
Charina Rd	Lexington Rd	Cul De Sac	Mill & Overlay	720	71	\$39,821	2
Cherlyn Dr	Newton St (S)	Newton St (N)	Mill & Overlay	3,016	67	\$143,311	11
Cherry St	Crawford St	West St	Prev. Maint. Surfacing	1,741	79	\$17,235	17
Chesterfield Rd	Northgate Rd (N)	Eliot Rd	Routine Maint. (w/Patch)	1,134	87	\$3,930	46
Chesterfield Rd	Eliot Rd	Northgate Rd (S)	Mill & Overlay	1,448	65	\$53,503	12
Chestnut Hill Rd	Pleasant St	Dennis Circle	Mill & Overlay	609	57	\$24,645	3
Church St	Route 20	288' E of Whitney St	Routine Maint.	387	87	\$864	808
Church St	288' E of Whitney St	Whitney St	Routine Maint. (w/Patch)	288	86	\$1,380	462
Church St	Whitney St	Pleasant St (E)	Prev. Maint. Surfacing	950	77	\$18,188	173
Church St	Pleasant St (E)	250' W Of Colby St	Prev. Maint. Surfacing	1,063	78	\$16,840	171
Church St	250' W Of Colby St	Pleasant St (W)	Prev. Maint. Surfacing	2,993	75	\$43,456	177
Church St	Pleasant St (W)	Fisher St	Mill & Overlay	2,801	64	\$147,883	117
Church St	Fisher St	225' W Of Crawford St	Mill & Overlay	1,823	63	\$137,963	119
Church St	225' W Of Crawford St	300' E of Ball St	Do Nothing	1,303	95	\$0	0

## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Church St	300' E Of Ball St	Town Line (Boylston)	Prev. Maint. Surfacing	1,055	75	\$30,638	177
Church St Y Int	Route 20	Church St	Routine Maint.	148	88	\$251	799
Claflin Farm Ln	Mayflower Rd	Cul De Sac	Do Nothing	987	100	\$0	0
Colburn St	Hudson St	250' N Of Chapin St	Reclaim & Pave	550	40	\$46,305	12
Colburn St	250' N Of Chapin St	Rice Ave	Reclaim & Pave	1,248	54	\$105,046	9
Colburn St	Rice Ave	Bear Foot Rd	Do Nothing	1,332	100	\$0	0
Colby St	Church St	Dead End	Reclaim & Pave	696	55	\$62,010	2
Cold Harbor Dr	West St	Cul De Sac	Prev. Maint. Surfacing	851	77	\$18,976	3
Collins Rd	Ridge Rd	Brigham St	Prev. Maint. Surfacing	2,059	76	\$29,895	18
Coolidge Cir	Whitney St	Cul De Sac	Prev. Maint. Surfacing	3,559	75	\$66,566	18
Copley Dr	Berkley Rd	Cul De Sac	Routine Maint.	763	88	\$1,837	16
Coram Farm Rd	Valentine Rd	Cul De Sac	Reclaim & Pave	431	54	\$81,838	2
Crawford St	W Main St	West St	Prev. Maint. Surfacing	5,972	76	\$78,822	88
Crawford St	West St	1700' N of West St	Do Nothing	1,677	95	\$0	0
Crawford St	1700' N of West St	Church St	Do Nothing	2,261	95	\$0	0
Crestwood Dr	Rt 20	Murdock Dr	Routine Maint. (w/Patch)	1,570	85	\$6,735	47
Crestwood Dr	Murdock Dr	Cul De Sac	Prev. Maint. Surfacing	1,071	77	\$22,020	3
Cyrus Way	Shadylane Ave	Cul De Sac	Routine Maint.	285	87	\$880	16
Danforth Dr	Ridge Rd	Cul De Sac	Reclaim & Pave	415	53	\$79,748	2
Dartmouth Dr	Copley Dr	Cul De Sac	Prev. Maint. Surfacing	391	80	\$9,088	3
Davis Ave	South St	Saddle Hill Dr	Prev. Maint. Surfacing	431	82	\$7,111	16
Davis Ave	Saddle Hill Dr	Davis St	Routine Maint.	509	88	\$980	80
Davis St	W Main St	130' N of Route 20	Prev. Maint. Surfacing	3,270	75	\$47,479	89
Davis St	130' N of Route 20	130' S of Route 20	Prev. Maint. Surfacing	490	80	\$7,112	83
Davis St	130' S of Route 20	Otis St	Do Nothing	992	95	\$0	0
Davis St	Otis St	50' N Of Thayer St	Routine Maint.	1,408	90	\$2,386	391
Davis St	50' N Of Thayer St	Town Line (Westborough)	Mill & Overlay	4,344	72	\$198,791	52
Dennis Cir	Chestnut Hill Rd (E)	Chestnut Hill Rd (W)	Reclaim & Pave	1,182	49	\$140,458	2
Donald St	Meadow Brook Rd	Overlook Dr	Routine Maint.	358	89	\$689	16
E Main St	Route 20 (W)	Allen St	Routine Maint. (w/Patch)	1,984	84	\$8,511	236
E Main St	Route 20 (E)	300' N of Route 20 (E)	Prev. Maint. Surfacing	75	75	\$996	89
E Main St	Allen St	Route 20 (E)	Prev. Maint. Surfacing	2,683	78	\$46,037	85
Edge Way	Howard St	Dead End	Reclaim & Pave	321	51	\$34,955	2
Edmunds Way	Colburn St	Cul De Sac Loop	Do Nothing	1,106	100	\$0	0
Eliot Rd	Chesterfield Rd	Cul De Sac	Routine Maint. (w/Patch)	789	87	\$4,387	46
Elmwood Dr	South St	Dead End	Do Nothing	643	98	\$0	0

## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Emerson Rd	Longfellow Rd	Dead End	Reclaim & Pave	1,370	39	\$196,651	13
Fairway Dr	Brigham St	Cul De Sac	Prev. Maint. Surfacing	973	77	\$19,350	3
Farm House Rd	Whitney St	Cul De Sac	Reclaim & Pave	314	44	\$58,637	2
Fawcett Orchard Rd	Woodstone Rd	Cul De Sac	Routine Maint.	377	90	\$1,136	16
Fay Ln	Church St	Valentine Rd	Reclaim & Pave	794	52	\$102,194	9
Fay Ln	Valentine Rd	Dead End	Reclaim & Pave	365	54	\$36,173	9
Fernbrook Rd	Woodland Rd (N)	Samuel Gamwel Rd	Prev. Maint. Surfacing	1,664	73	\$24,160	18
Fisher St	Church St	Crawford St	Reclaim & Pave	1,524	52	\$165,953	9
Forbes Rd	Whitney St	Cul De Sac	Reclaim & Pave	1,333	52	\$236,061	2
Forest Rd	Northgate Rd	Meadow Rd	Routine Maint.	669	92	\$1,133	76
Foxwood Ln	Fisher St	Cul De Sac	Reclaim & Pave	569	53	\$95,503	2
Franklin Cir	Crawford St (S)	Crawford St (N)	Mill & Overlay	1,769	62	\$84,057	2
Galahad Rd	Town Line	Cul De Sac	Mill & Overlay	333	68	\$27,895	2
Gale St	South St	Monroe St	Mill & Overlay	661	63	\$24,429	12
Garrison Cir	South St	Cul De Sac	Prev. Maint. Surfacing	381	81	\$10,998	3
Gates Ln	Little Pond Rd	Cul De Sac	Mill & Overlay	539	72	\$33,230	2
Goddard Rd	Solomon Pond Rd	Cul De Sac	Mill & Overlay	1,262	60	\$93,577	2
Green St	Howard St	Brewer St (S)	Routine Maint. (w/Patch)	1,870	86	\$6,171	46
Green St	Brewer St (S)	558' W of Brewer St (S)	Do Nothing	559	100	\$0	0
Green St	558' W of Brewer St (S)	Brewer St (N)	Routine Maint. (w/Patch)	385	86	\$2,034	46
Green St	Brewer St (N)	3500' N of Brewer St	Routine Maint. (w/Patch)	3,545	84	\$11,112	47
Green St	3500' N of Brewer St	Ball St	Routine Maint. (w/Patch)	3,452	86	\$10,823	46
Green St	Ball St	Boylston Town Line	Routine Maint. (w/Patch)	3,312	84	\$10,382	47
Greenwood Rd	South St	Northgate Rd	Prev. Maint. Surfacing	832	75	\$12,629	18
Gristmill Ln	Little Pond Rd	Cul De Sac	Prev. Maint. Surfacing	471	75	\$12,328	4
Halloway Ln	Milk Porridge Circle	Cul De Sac	Do Nothing	244	95	\$0	0
Hamilton Rd	Wilson Rd	Davis St	Prev. Maint. Surfacing	2,237	73	\$38,384	18
Hawthorne Cir	Longfellow Rd	Cul De Sac	Routine Maint.	385	88	\$1,197	16
Hemlock Dr	Route 20	Laurel Ave	Reclaim & Pave	2,209	51	\$328,015	10
Hemlock Dr	Laurel Ave	Bartlett St	Reclaim & Pave	361	54	\$53,605	9
Hoover Rd	Chesterfield Rd	Hamilton Rd	Routine Maint. (w/Patch)	774	86	\$3,193	46
Howard St (N)	Cul De Sac	Brewer St (N)	Prev. Maint. Surfacing	666	78	\$10,198	17
Howard St (N)	Brewer St (N)	Maynard St	Prev. Maint. Surfacing	1,572	78	\$19,708	17
Howard St (N)	Maynard St	Sparrow Ln	Mill & Overlay	866	68	\$28,957	11
Howard St (N)	Sparrow Ln	Moore Ln	Mill & Overlay	2,116	68	\$70,764	11
Howard St (N)	Moore Ln	Howard Ln	Mill & Overlay	584	68	\$19,511	11

## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Howard St (N)	Howard Ln	Town Line	Mill & Overlay	2,403	68	\$80,359	11
Howard St (S)	Church St	Winter St	Reclaim & Pave	2,519	40	\$311,731	12
Howard St (S)	Winter St	Green St	Do Nothing	2,208	95	\$0	0
Howard St (S)	Green St	Cul De Sac	Routine Maint.	1,689	88	\$2,914	80
Hudson St	Route 20	245' N of Route 20	Do Nothing	245	95	\$0	0
Hudson St	245' N of Route 20	Pierce St	Do Nothing	697	94	\$0	0
Hudson St	Pierce St	Allen St	Do Nothing	3,819	93	\$0	0
Hudson St	Allen St	Colburn St	Do Nothing	2,948	95	\$0	0
Hudson St	Colburn St	Solomon Pond Rd	Routine Maint. (w/Patch)	918	86	\$3,788	462
Hudson St	Solomon Pond Rd	Town Line	Mill & Overlay	2,036	72	\$89,561	52
Increase Ward Dr	Oak Ave	Cul De Sac	Prev. Maint. Surfacing	508	81	\$12,638	3
Indian Meadow Dr	Davis St (E)	Davis St (W)	Prev. Maint. Surfacing	5,558	79	\$102,705	17
Iroquois Dr	Mohawk Dr	125' N Of Carraige Hill Rd	Reclaim & Pave	672	53	\$89,807	2
Iroquois Dr	125' N Of Carraige Hill Rd	Cul De Sac	Mill & Overlay	373	57	\$20,091	3
Jacob Cobb Ln	Thaddeus Mason Rd	Cul De Sac	Do Nothing	429	100	\$0	0
Jay Ave	Pinehaven Dr	Shady Lane	Routine Maint.	590	89	\$1,090	16
Jefferson Rd	Mayflower Rd	Northgate Rd	Mill & Overlay	1,281	57	\$65,378	13
Jenkins Dr	Bartlett St	Stirrup Brook Ln	Reclaim & Pave	689	54	\$102,310	2
Jethro Peters Ln	Northgate Rd	Cul De Sac	Do Nothing	1,142	100	\$0	0
Johnson Ave	Maple St	Dead End (Private Drive)	Prev. Maint. Surfacing	622	82	\$7,802	3
Joseph Rd	Catherine Dr	Cul De Sac	Do Nothing	565	98	\$0	0
Juniper Brook Rd	School St	Juniper Brook Rd (Loop)	Routine Maint. (w/Patch)	3,130	86	\$13,943	9
Juniper Ln	Juniper Brook Rd	Cul De Sac	Routine Maint. (w/Patch)	306	86	\$2,158	9
Kendall Dr	South St	Dead End	Prev. Maint. Surfacing	1,029	75	\$18,336	4
Kent Dr	Warren Dr	Cul De Sac	Do Nothing	385	100	\$0	0
Kerry Craig Cir	Rice Ave (W)	Rice Ave (E)	Mill & Overlay	781	57	\$37,111	3
Kimball Ln	Juniper Brook Rd	Cul De Sac	Routine Maint. (w/Patch)	343	85	\$2,459	9
King St	Route 20 (N)	Route 20 (S)	Reclaim & Pave	1,347	51	\$120,010	10
Kristyn Dr	Catherine Dr	Cul De Sac	Do Nothing	417	100	\$0	0
Lancaster Rd	Washburn St	Cul De Sac	Mill & Overlay	1,333	65	\$52,054	2
Lanthorne Rd	Davis St	Cul De Sac	Mill & Overlay	860	63	\$53,947	12
Laurel Ave	Hemlock Dr	Cul De Sac Loop	Reclaim & Pave	568	50	\$73,097	2
Lawrence St	Otis St	Hillside Ave	Routine Maint.	568	88	\$1,006	80
Lawrence St	Hillside Rd	Route 9	Routine Maint.	2,752	87	\$4,237	81
Leland Ave	Shady Lane (E)	Shady Lane (W)	Prev. Maint. Surfacing	685	76	\$9,946	4
Leland Dr	Brigham St	Wesson Terrace (S)	Reclaim & Pave	1,903	41	\$226,062	12

## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Lexington Rd	Route 20	Cul De Sac	Prev. Maint. Surfacing	728	73	\$15,146	4
Liberty Dr	Monument Dr	Cul De Sac	Mill & Overlay	615	70	\$39,838	11
Lincoln St	Route 20	Pinehaven Dr	Prev. Maint. Surfacing	1,211	76	\$22,374	18
Lincoln St	Pinehaven Dr	Oak Ave	Prev. Maint. Surfacing	680	78	\$12,569	17
Lincoln St	Oak Ave	Pleasant St	Prev. Maint. Surfacing	2,041	75	\$36,367	18
Little Pond Rd	E Main St	Route 20	Prev. Maint. Surfacing	4,442	74	\$93,809	18
Longfellow Rd	South St	Eliot Rd	Routine Maint. (w/Patch)	2,018	87	\$9,323	46
Lyman St	Bartlett St	Ridge Rd	Routine Maint.	2,210	88	\$4,084	399
Lyman St	Ridge Rd	Railroad Dr	Prev. Maint. Surfacing	863	76	\$13,666	88
Lyman St	Railroad Dr	Town Line	Reclaim & Pave	4,098	43	\$486,834	57
Macalister Dr	Maynard St	Cul De Sac	Do Nothing	1,305	100	\$0	0
Madison Rd	Meadow Rd	Adams Rd	Routine Maint.	606	88	\$1,120	80
Madison Rd	Adams Rd	Lanthorne Rd	Mill & Overlay	1,377	56	\$72,701	13
Maple St	Route 20	Ridge Rd	Prev. Maint. Surfacing	2,073	76	\$31,471	18
Maple St	Ridge Rd	Bartlett St	Mill & Overlay	2,048	63	\$82,885	12
Mashpee Cir	Indian Meadows Dr	Cul De Sac	Prev. Maint. Surfacing	477	75	\$11,987	4
Mayflower Rd	Northgate Rd	Jefferson Rd	Routine Maint.	1,123	89	\$2,075	79
Maynard St	Whitney St	Brewer St	Prev. Maint. Surfacing	3,821	76	\$52,956	18
Meadow Brook Rd	Rice Ave	Donald St	Do Nothing	308	94	\$0	0
Meadow Rd	Northgate Rd	Northgate Rd Ext	Prev. Maint. Surfacing	644	80	\$9,778	17
Meadow Rd	Northgate Rd Ext	Chesterfield Rd	Prev. Maint. Surfacing	1,236	80	\$18,766	17
Meadow Rd	Chesterfield Rd	Dead End	Prev. Maint. Surfacing	1,011	76	\$15,338	18
Meadow Rd Ext	Meadow Rd	Cul De Sac	Reclaim & Pave	198	54	\$40,065	2
Memorial Dr	E Main St	Cul De Sac	Prev. Maint. Surfacing	524	77	\$11,444	3
Mentzer Ave	Green St	Brewer	Reclaim & Pave	698	43	\$55,278	2
Milestone Ln	Little Pond Rd	Cul De Sac	Mill & Overlay	369	72	\$25,012	2
Milk Porridge Cir	Brigham St	Milk Porridge Circle (Loop)	Do Nothing	2,410	95	\$0	0
Mill St	Pierce St	Dead End	Do Nothing	371	100	\$0	0
Mohawk Dr	Washburn St	Howard St	Reclaim & Pave	1,633	54	\$218,236	9
Mohican Ave	Carraige Hill Rd	Washburn St	Reclaim & Pave	624	51	\$74,126	2
Monroe St	Route 20	170' N of Gale St	Do Nothing	309	94	\$0	0
Monroe St	170' N of Gale St	Gale St	Reclaim & Pave	169	51	\$17,615	10
Monument Dr	Route 20	Cul De Sac	Reclaim & Pave	854	39	\$144,388	13
Moore Ln	Howard St	Cul De Sac	Reclaim & Pave	1,832	42	\$226,155	2
Morse Cir	Coolidge Circle	Cul De Sac	Prev. Maint. Surfacing	596	75	\$13,686	4
Mulberry Ln	Pleasant St	Prospect St	Reclaim & Pave	406	46	\$36,172	2

## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Mulligan Way	Fairway Dr	Cul De Sac	Prev. Maint. Surfacing	435	78	\$10,118	3
Murdock Dr	Crestwood Dr	Cedar Hill Rd	Mill & Overlay	331	65	\$14,563	12
Nelson Dr	Davis St	Cul De Sac	Reclaim & Pave	545	55	\$125,470	2
Newton St	Maynard St	Cherlyn Dr (N)	Reclaim & Pave	2,870	55	\$227,281	9
Newton St	Cherlyn Dr (N)	225' S of Bellevue Rd	Routine Maint.	2,241	88	\$2,761	80
Newton St	450' S of Town Line	200' S of Town Line	Routine Maint.	226	88	\$278	80
Newton St	200' W of Town Line	Town Line	Do Nothing	196	100	\$0	0
Northgate Rd	South St	Davis St	Do Nothing	4,526	98	\$0	0
Oak Ave	Lincoln St	Cul De Sac	Routine Maint.	2,170	88	\$4,281	16
Oak Meadow Dr	Davis St	Cul De Sac	Reclaim & Pave	400	52	\$74,065	2
Old Colonial Rd	Davis St	Dead End	Routine Maint. (w/Patch)	798	86	\$2,897	9
Omaha Ave	Maple St	Cul De Sac	Reclaim & Pave	637	52	\$70,047	2
Orchard Cir	Valentine Rd	Cul De Sac	Reclaim & Pave	430	53	\$82,976	2
Otis St	Davis St	Thayer St	Routine Maint. (w/Patch)	1,266	85	\$4,593	233
Otis St	Thayer St	Lawrence St	Routine Maint.	1,071	88	\$2,062	399
Otis St	Lawrence St	903' N of Town Line	Routine Maint. (w/Patch)	1,899	87	\$9,397	228
Otis St	903' N of Town Line	Town Line	Prev. Maint. Surfacing	904	75	\$29,820	89
Overlock Dr	Rice Ave	Cul De Sac	Do Nothing	903	94	\$0	0
Park St	Summer St	Winn St	Do Nothing	623	95	\$0	0
Patrick Dr	Coolidge Circle	Cherlyn Dr	Prev. Maint. Surfacing	765	73	\$13,631	18
Patriot Dr	Assabet Hill Circle	Cul De Sac	Reclaim & Pave	314	42	\$61,473	2
Patty Ln	Route 20	Dead End (Condo Parking Lot)	Prev. Maint. Surfacing	440	76	\$6,969	4
Pierce St	Church St	Hudson St	Do Nothing	1,175	95	\$0	0
Pinehaven Dr	Route 20	Lincoln St	Routine Maint. (w/Patch)	2,083	85	\$7,217	47
Pleasant St	Church St (E)	150' E Of Prospect St	Mill & Overlay	942	58	\$43,103	13
Pleasant St	150' E Of Prospect St	Lincoln St	Reclaim & Pave	1,847	55	\$219,374	9
Pleasant St	Lincoln St	Church St (W)	Routine Maint. (w/Patch)	2,561	87	\$9,297	46
Pleasant St Ext	Howard St	Whitney St	Reclaim & Pave	605	52	\$53,902	9
Potter Cir	Valentine Rd	Cul De Sac	Reclaim & Pave	431	54	\$80,827	2
Prospect St	Pleasant St	Mulberry Lane	Mill & Overlay	634	67	\$20,084	2
Railroad Dr	Lyman St	Cul De Sac	Reclaim & Pave	822	53	\$144,233	2
Reservoir St	Crawford St	Town Line	Reclaim & Pave	2,660	52	\$289,655	9
Rice Ave	Whitney St	495' N of Allen St	Do Nothing	3,591	100	\$0	0
Rice Ave	495' N of Allen St	600' S Of Colburn St	Routine Maint.	2,409	87	\$3,710	81
Rice Ave	600' S Of Colburn St	Colburn St	Do Nothing	592	100	\$0	0
Ridge Rd	Maple St	Collins Rd	Routine Maint.	1,504	88	\$2,316	80

## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Ridge Rd	Collins Rd	Lyman St	Do Nothing	3,082	93	\$0	0
Riley Rd	South St	Fernbrook Rd	Prev. Maint. Surfacing	1,585	76	\$25,105	18
River St	Route 20	836' N of Route 20	Prev. Maint. Surfacing	837	73	\$12,148	18
River St	836' N of Route 20	209' S of Hudson St	Reclaim & Pave	295	44	\$32,123	11
River St	209' S of Hudson St	Hudson St	Prev. Maint. Surfacing	209	75	\$3,860	18
Rodney Ter	Leland Dr	Cul De Sac	Reclaim & Pave	310	51	\$47,954	2
Rogers Ave	Maple St	Rooney St	Prev. Maint. Surfacing	524	79	\$6,916	3
Rooney St	Johnson Ave	Rooney St	Prev. Maint. Surfacing	302	79	\$3,787	3
Rustic Dr	Brigham St	Sunset Dr	Mill & Overlay	454	65	\$15,980	12
Ruth Rd	Northgate Rd	Meadow Rd	Prev. Maint. Surfacing	693	81	\$12,806	16
Saddle Hill Dr	Davis Ave	Cul De Sac	Mill & Overlay	452	66	\$29,870	2
Samuel Gamwel Rd	Clafin Farm Ln	Woodland Rd	Do Nothing	1,338	95	\$0	0
Sawmill Dr	Treetop Circle	Cul De Sac	Reclaim & Pave	289	49	\$56,531	2
Sawyer Rd	Washburn St	Cul De Sac	Mill & Overlay	484	57	\$29,224	3
School St	Route 20	Railroad	Routine Maint.	1,630	90	\$2,761	78
School St	Railroad	Golf Teaching Center	Do Nothing	1,952	100	\$0	0
School St	Golf Teaching Center	Brigham St	Do Nothing	2,132	100	\$0	0
School St	Brigham St	Juniper Brook Rd	Routine Maint.	1,373	85	\$2,115	17
Scott Ln	Cherlyn Dr	Cul De Sac	Mill & Overlay	442	62	\$31,011	2
Shady Lane	Pinehaven Dr (S)	Pinehaven Dr (N)	Prev. Maint. Surfacing	2,318	75	\$33,655	4
Silas Dr	Hudson St	Cul De Sac	Do Nothing	248	94	\$0	0
Smith Rd	Green St	Town Line	Do Nothing	3,104	95	\$0	0
Solomon Pond Rd	Hudson St	Pond View Way	Prev. Maint. Surfacing	1,399	74	\$24,923	180
Solomon Pond Rd	Pond View Way	100' N of Bearfoot Rd	Mill & Overlay	492	71	\$51,962	106
South St	Route 20	Assabet Dr	Prev. Maint. Surfacing	2,048	75	\$37,837	177
South St	Assabet Dr	Northgate Rd	Routine Maint. (w/Patch)	3,582	85	\$16,545	467
South St	Northgate Rd	Longfellow Rd	Prev. Maint. Surfacing	2,427	73	\$44,842	182
South St	Longfellow Rd	Town Line (Westborough)	Do Nothing	1,840	93	\$0	0
Spruce Hill Dr	Rice Ave	Cul De Sac	Routine Maint.	867	87	\$1,994	16
St James Dr	Route 20	Cul De Sac	Prev. Maint. Surfacing	1,054	80	\$22,278	3
St James Dr Ext	St James Dr	River St	Mill & Overlay	309	67	\$13,064	6
Sterling Ct	E Main St	Cul De Sac	Do Nothing	359	98	\$0	0
Stirrup Brook Ln	Bartlett St	Cul De Sac	Reclaim & Pave	986	55	\$164,506	2
Stone Dr	Babcock Dr	Coolidge Circle	Mill & Overlay	1,476	64	\$67,537	12
Stratton Way	Route 20	Warren Dr	Do Nothing	1,744	100	\$0	0
Summer St	Route 20	South St	Do Nothing	2,489	94	\$0	0

## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Sunnyhill Rd	Pinehaven Dr	Shady Lane	Prev. Maint. Surfacing	606	78	\$8,399	3
Sunset Dr	South St	512' S of Rustic Dr	Reclaim & Pave	1,651	55	\$171,600	9
Sunset Dr	512' S of Rustic Dr	Brigham St	Mill & Overlay	1,261	56	\$53,265	13
Talbot Rd	Lyman St (N)	Lyman St (S)	Routine Maint. (w/Patch)	2,612	87	\$9,050	9
Thaddeus Mason Rd	Jethro Peters Lane	Samuel Gamwel Rd	Do Nothing	1,052	98	\$0	0
Thayer St	Davis St	Otis St	Routine Maint. (w/Patch)	1,205	86	\$4,771	46
Thoreau Rd	Emerson Rd	Eliot Rd	Mill & Overlay	1,309	63	\$64,503	12
Tomahawk Dr	Indian Meadows Dr	Indian Meadows Dr	Prev. Maint. Surfacing	1,050	80	\$19,403	3
Tomblin Hill Rd	Route 20	Otis St	Routine Maint.	1,481	87	\$2,281	81
Tory Ln	Little Pond Rd	Cul De Sac	Prev. Maint. Surfacing	298	77	\$8,215	3
Treetop Cir	Whitney St (S)	Whitney St (N)	Reclaim & Pave	1,584	55	\$235,209	2
Tricorner Cir	Pleasant St	Cul De Sac Loop	Prev. Maint. Surfacing	300	81	\$5,346	3
Valentine Rd	Fay Lane	Howard St	Reclaim & Pave	3,091	52	\$413,085	9
Vanessa Dr	Hudson St	Cul De Sac	Reclaim & Pave	492	53	\$89,974	2
Warren Dr	E Main St	Cul De Sac	Do Nothing	981	100	\$0	0
Washburn St	Winter St	Sawyer Rd	Reclaim & Pave	833	52	\$70,076	9
Washburn St	Sawyer Rd	Mohawk Dr	Reclaim & Pave	2,108	49	\$177,368	10
Washburn St	Mohawk Dr	Whitney St	Routine Maint. (w/Patch)	1,706	85	\$5,630	47
Washington Rd	Northgate Rd	Jefferson Rd	Routine Maint.	792	88	\$1,646	80
Washington Rd	Jefferson Rd	Dead End	Mill & Overlay	573	57	\$29,252	3
Weber Ln	Stirrup Brook Ln	Cul De Sac	Routine Maint.	397	89	\$984	16
Wesson Ter	Leland Dr	Cul De Sac Loop	Reclaim & Pave	845	50	\$100,379	10
Wesson Ter	Cul De Sac Loop	Wesson Terrace Loop	Routine Maint.	2,545	88	\$5,095	16
West St	Church St	1070' S of Church St	Prev. Maint. Surfacing	1,067	76	\$14,086	18
West St	1070' S of Church St	Crawford St	Do Nothing	2,802	94	\$0	0
West St	Crawford St	1150' E of Town Line (Shrewsbury)	Do Nothing	2,741	95	\$0	0
West St	1150' E of Town Line (Shrewsbury)	Town Line (Shrewsbury)	Reclaim & Pave	1,150	50	\$108,129	49
Westbrook Rd	Route 20	Cedar Hill Road	Do Nothing	1,461	98	\$0	0
Wheeler Ln	Milk Porridge Circle	Cul De Sac	Do Nothing	209	98	\$0	0
Wheelwright Dr	Assabet Hill Circle	Cul De Sac	Reclaim & Pave	281	52	\$57,584	2
Whitney St	Church St	Whitney St Y Int	Do Nothing	130	100	\$0	0
Whitney St	Whitney St Y Int	560' N Of Pleasant St	Mill & Overlay	987	65	\$38,222	58
Whitney St	560' N Of Pleasant St	Winter St	Routine Maint. (w/Patch)	1,658	87	\$6,019	228
Whitney St	Winter St	Washburn St	Routine Maint. (w/Patch)	3,090	86	\$11,216	231
Whitney St	Lancaster Rd	Bear Foot Rd	Prev. Maint. Surfacing	1,897	80	\$32,547	83
Whitney St	Bear Foot Rd	Coolidge Circle	Prev. Maint. Surfacing	3,052	80	\$52,365	83



## Pavement Backlog Report (by Street Name)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Whitney St	Coolidge Circle	Whitney Ave	Prev. Maint. Surfacing	2,337	79	\$50,905	84
Whitney St	Whitney Ave	Town Line	Routine Maint.	659	88	\$1,674	80
Whitney St Y Int	Church St	Whitney St	Do Nothing	227	100	\$0	0
Wiles Farm Rd	Davis St	Cul De Sac	Reclaim & Pave	850	48	\$129,294	2
Williamsburg Cir	Hamilton Rd	Cul De Sac Loop	Reclaim & Pave	473	54	\$58,530	2
Wilson Rd	Hoover Rd	Cul De Sac	Prev. Maint. Surfacing	1,425	77	\$26,170	17
Winn St	School St	Dead End	Do Nothing	896	98	\$0	0
Winn Ter	Winn St	Cul De Sac Loop	Routine Maint.	675	89	\$1,195	16
Winsor Ln	Boundary Rd	Cul De Sac	Mill & Overlay	603	56	\$35,572	3
Winter St	Howard St	Whitney St	Mill & Overlay	2,132	66	\$67,537	11
Woodland Rd	Birch Hill Dr	Samuel Gamwel Rd	Prev. Maint. Surfacing	1,286	74	\$20,369	18
Woodlawn St	Pinehaven Dr	Shady Lane	Routine Maint.	643	89	\$1,089	16
Woodstone Rd	Ball St 1	Ball St	Do Nothing	3,908	95	\$0	0
<b>Totals:</b>				<b>81.66 Miles</b>		<b>\$ 15,003,123</b>	

# Appendix B

---

## **Pavement Backlog Report (PCI Ascending)**

## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Assabet Hill Cir	Westbrook Rd	Wheelwright Dr	Reclaim & Pave	1,421	38	\$210,960	13
Emerson Rd	Longfellow Rd	Dead End	Reclaim & Pave	1,370	39	\$196,651	13
Monument Dr	Route 20	Cul De Sac	Reclaim & Pave	854	39	\$144,388	13
Colburn St	Hudson St	250' N Of Chapin St	Reclaim & Pave	550	40	\$46,305	12
Howard St (S)	Church St	Winter St	Reclaim & Pave	2,519	40	\$311,731	12
Allen Ct	Allen St	Dead End	Reclaim & Pave	375	41	\$57,601	2
Carriage Hill Rd	400' E Of Iroquois Dr	Cul De Sac	Reclaim & Pave	1,746	41	\$234,407	2
Leland Dr	Brigham St	Wesson Terrace (S)	Reclaim & Pave	1,903	41	\$226,062	12
Brewer St (N)	Cul De Sac	Green St (W)	Reclaim & Pave	760	42	\$70,259	2
Moore Ln	Howard St	Cul De Sac	Reclaim & Pave	1,832	42	\$226,155	2
Patriot Dr	Assabet Hill Circle	Cul De Sac	Reclaim & Pave	314	42	\$61,473	2
Blueberry Ln	Hemlock Dr	Cul De Sac Loop	Reclaim & Pave	613	43	\$81,922	2
Lyman St	Railroad Dr	Town Line	Reclaim & Pave	4,098	43	\$486,834	57
Mentzer Ave	Green St	Brewer	Reclaim & Pave	698	43	\$55,278	2
Farm House Rd	Whitney St	Cul De Sac	Reclaim & Pave	314	44	\$58,637	2
River St	836' N of Route 20	209' S of Hudson St	Reclaim & Pave	295	44	\$32,123	11
Mulberry Ln	Pleasant St	Prospect St	Reclaim & Pave	406	46	\$36,172	2
Cedar Hill Rd	Bartlett St	Town Line	Reclaim & Pave	681	47	\$94,380	52
Assabet Hill Cir	Wheelwright Dr	Liberty Dr	Reclaim & Pave	466	48	\$69,241	10
Ball St	Woodstone Rd	Rocky Pond Rd	Reclaim & Pave	2,925	48	\$289,526	10
Wiles Farm Rd	Davis St	Cul De Sac	Reclaim & Pave	850	48	\$129,294	2
Carruth Dr	Whitney St	Cul De Sac	Reclaim & Pave	329	49	\$66,978	2
Dennis Cir	Chestnut Hill Rd (E)	Chestnut Hill Rd (W)	Reclaim & Pave	1,182	49	\$140,458	2
Sawmill Dr	Treetop Circle	Cul De Sac	Reclaim & Pave	289	49	\$56,531	2
Washburn St	Sawyer Rd	Mohawk Dr	Reclaim & Pave	2,108	49	\$177,368	10
Alcott Dr	South St	Emerson Rd	Reclaim & Pave	1,242	50	\$178,277	10
Laurel Ave	Hemlock Dr	Cul De Sac Loop	Reclaim & Pave	568	50	\$73,097	2
Wesson Ter	Leland Dr	Cul De Sac Loop	Reclaim & Pave	845	50	\$100,379	10
West St	1150' E of Town Line (Shrewsbury)	Town Line (Shrewsbury)	Reclaim & Pave	1,150	50	\$108,129	49
Ball St	Church St	Woodstone Rd	Reclaim & Pave	2,049	51	\$314,398	10
Carriage Hill Rd	Iroquois Dr	400' E Of Iroquois Dr	Reclaim & Pave	400	51	\$53,456	2
Edge Way	Howard St	Dead End	Reclaim & Pave	321	51	\$34,955	2
Hemlock Dr	Route 20	Laurel Ave	Reclaim & Pave	2,209	51	\$328,015	10
King St	Route 20 (N)	Route 20 (S)	Reclaim & Pave	1,347	51	\$120,010	10
Mohican Ave	Carraige Hill Rd	Washburn St	Reclaim & Pave	624	51	\$74,126	2
Monroe St	170' N of Gale St	Gale St	Reclaim & Pave	169	51	\$17,615	10

## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Rodney Ter	Leland Dr	Cul De Sac	Reclaim & Pave	310	51	\$47,954	2
Babcock Dr	Whitney St	Cherlyn Dr	Reclaim & Pave	1,540	52	\$198,185	9
Balcom Dr	Route 20	Cul De Sac	Reclaim & Pave	378	52	\$66,873	2
Fay Ln	Church St	Valentine Rd	Reclaim & Pave	794	52	\$102,194	9
Fisher St	Church St	Crawford St	Reclaim & Pave	1,524	52	\$165,953	9
Forbes Rd	Whitney St	Cul De Sac	Reclaim & Pave	1,333	52	\$236,061	2
Oak Meadow Dr	Davis St	Cul De Sac	Reclaim & Pave	400	52	\$74,065	2
Omaha Ave	Maple St	Cul De Sac	Reclaim & Pave	637	52	\$70,047	2
Pleasant St Ext	Howard St	Whitney St	Reclaim & Pave	605	52	\$53,902	9
Reservoir St	Crawford St	Town Line	Reclaim & Pave	2,660	52	\$289,655	9
Valentine Rd	Fay Lane	Howard St	Reclaim & Pave	3,091	52	\$413,085	9
Washburn St	Winter St	Sawyer Rd	Reclaim & Pave	833	52	\$70,076	9
Wheelwright Dr	Assabet Hill Circle	Cul De Sac	Reclaim & Pave	281	52	\$57,584	2
Ball St 1	Woodstone Rd	Cul De Sac	Reclaim & Pave	284	53	\$35,677	2
Danforth Dr	Ridge Rd	Cul De Sac	Reclaim & Pave	415	53	\$79,748	2
Foxwood Ln	Fisher St	Cul De Sac	Reclaim & Pave	569	53	\$95,503	2
Iroquois Dr	Mohawk Dr	125' N Of Carraige Hill Rd	Reclaim & Pave	672	53	\$89,807	2
Orchard Cir	Valentine Rd	Cul De Sac	Reclaim & Pave	430	53	\$82,976	2
Railroad Dr	Lyman St	Cul De Sac	Reclaim & Pave	822	53	\$144,233	2
Vanessa Dr	Hudson St	Cul De Sac	Reclaim & Pave	492	53	\$89,974	2
Assabet Hill Cir Loop	Assabet Hill Circle W	Assabet Hill Circle E	Reclaim & Pave	173	54	\$22,264	9
Bear Foot Rd	Solomon Pond Rd	Colburn St	Reclaim & Pave	3,089	54	\$611,562	45
Colburn St	250' N Of Chapin St	Rice Ave	Reclaim & Pave	1,248	54	\$105,046	9
Coram Farm Rd	Valentine Rd	Cul De Sac	Reclaim & Pave	431	54	\$81,838	2
Fay Ln	Valentine Rd	Dead End	Reclaim & Pave	365	54	\$36,173	9
Hemlock Dr	Laurel Ave	Bartlett St	Reclaim & Pave	361	54	\$53,605	9
Jenkins Dr	Bartlett St	Stirrup Brook Ln	Reclaim & Pave	689	54	\$102,310	2
Meadow Rd Ext	Meadow Rd	Cul De Sac	Reclaim & Pave	198	54	\$40,065	2
Mohawk Dr	Washburn St	Howard St	Reclaim & Pave	1,633	54	\$218,236	9
Potter Cir	Valentine Rd	Cul De Sac	Reclaim & Pave	431	54	\$80,827	2
Williamsburg Cir	Hamilton Rd	Cul De Sac Loop	Reclaim & Pave	473	54	\$58,530	2
Colby St	Church St	Dead End	Reclaim & Pave	696	55	\$62,010	2
Nelson Dr	Davis St	Cul De Sac	Reclaim & Pave	545	55	\$125,470	2
Newton St	Maynard St	Cherlyn Dr (N)	Reclaim & Pave	2,870	55	\$227,281	9
Pleasant St	150' E Of Prospect St	Lincoln St	Reclaim & Pave	1,847	55	\$219,374	9
Stirrup Brook Ln	Bartlett St	Cul De Sac	Reclaim & Pave	986	55	\$164,506	2

## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Sunset Dr	South St	512' S of Rustic Dr	Reclaim & Pave	1,651	55	\$171,600	9
Treetop Cir	Whitney St (S)	Whitney St (N)	Reclaim & Pave	1,584	55	\$235,209	2
Boundary St	Hudson St	Town Line	Mill & Overlay	341	56	\$15,003	67
Bridle Path Dr	Davis St	Cul De Sac	Mill & Overlay	306	56	\$22,600	3
Madison Rd	Adams Rd	Lanthorne Rd	Mill & Overlay	1,377	56	\$72,701	13
Sunset Dr	512' S of Rustic Dr	Brigham St	Mill & Overlay	1,261	56	\$53,265	13
Winsor Ln	Boundary Rd	Cul De Sac	Mill & Overlay	603	56	\$35,572	3
Chestnut Hill Rd	Pleasant St	Dennis Circle	Mill & Overlay	609	57	\$24,645	3
Iroquois Dr	125' N Of Carraige Hill Rd	Cul De Sac	Mill & Overlay	373	57	\$20,091	3
Jefferson Rd	Mayflower Rd	Northgate Rd	Mill & Overlay	1,281	57	\$65,378	13
Kerry Craig Cir	Rice Ave (W)	Rice Ave (E)	Mill & Overlay	781	57	\$37,111	3
Sawyer Rd	Washburn St	Cul De Sac	Mill & Overlay	484	57	\$29,224	3
Washington Rd	Jefferson Rd	Dead End	Mill & Overlay	573	57	\$29,252	3
Pleasant St	Church St (E)	150' E Of Prospect St	Mill & Overlay	942	58	\$43,103	13
Goddard Rd	Solomon Pond Rd	Cul De Sac	Mill & Overlay	1,262	60	\$93,577	2
Chapin St	Rice Ave	Colburn St	Mill & Overlay	796	62	\$26,616	12
Franklin Cir	Crawford St (S)	Crawford St (N)	Mill & Overlay	1,769	62	\$84,057	2
Scott Ln	Cherlyn Dr	Cul De Sac	Mill & Overlay	442	62	\$31,011	2
Church St	Fisher St	225' W Of Crawford St	Mill & Overlay	1,823	63	\$137,963	119
Gale St	South St	Monroe St	Mill & Overlay	661	63	\$24,429	12
Lanthorne Rd	Davis St	Cul De Sac	Mill & Overlay	860	63	\$53,947	12
Maple St	Ridge Rd	Bartlett St	Mill & Overlay	2,048	63	\$82,885	12
Thoreau Rd	Emerson Rd	Eliot Rd	Mill & Overlay	1,309	63	\$64,503	12
Captain Eager Dr	Otis St	Cul De Sac	Mill & Overlay	386	64	\$27,642	2
Church St	Pleasant St (W)	Fisher St	Mill & Overlay	2,801	64	\$147,883	117
Stone Dr	Babcock Dr	Coolidge Circle	Mill & Overlay	1,476	64	\$67,537	12
Chesterfield Rd	Eliot Rd	Northgate Rd (S)	Mill & Overlay	1,448	65	\$53,503	12
Lancaster Rd	Washburn St	Cul De Sac	Mill & Overlay	1,333	65	\$52,054	2
Murdock Dr	Crestwood Dr	Cedar Hill Rd	Mill & Overlay	331	65	\$14,563	12
Rustic Dr	Brigham St	Sunset Dr	Mill & Overlay	454	65	\$15,980	12
Whitney St	Whitney St Y Int	560' N Of Pleasant St	Mill & Overlay	987	65	\$38,222	58
Ball St	1664' S Of Green St	Green St	Mill & Overlay	1,664	66	\$58,569	11
Saddle Hill Dr	Davis Ave	Cul De Sac	Mill & Overlay	452	66	\$29,870	2
Winter St	Howard St	Whitney St	Mill & Overlay	2,132	66	\$67,537	11
Cherlyn Dr	Newton St (S)	Newton St (N)	Mill & Overlay	3,016	67	\$143,311	11
Prospect St	Pleasant St	Mulberry Lane	Mill & Overlay	634	67	\$20,084	2

## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
St James Dr Ext	St James Dr	River St	Mill & Overlay	309	67	\$13,064	6
Ball St	Rocky Pond Rd	1664' S Of Green St	Mill & Overlay	2,594	68	\$91,313	11
Galahad Rd	Town Line	Cul De Sac	Mill & Overlay	333	68	\$27,895	2
Howard St (N)	Maynard St	Sparrow Ln	Mill & Overlay	866	68	\$28,957	11
Howard St (N)	Sparrow Ln	Moore Ln	Mill & Overlay	2,116	68	\$70,764	11
Howard St (N)	Moore Ln	Howard Ln	Mill & Overlay	584	68	\$19,511	11
Howard St (N)	Howard Ln	Town Line	Mill & Overlay	2,403	68	\$80,359	11
Liberty Dr	Monument Dr	Cul De Sac	Mill & Overlay	615	70	\$39,838	11
Bartlett St	Main St	530' S Of Maple St	Mill & Overlay	2,133	71	\$120,123	53
Charina Rd	Lexington Rd	Cul De Sac	Mill & Overlay	720	71	\$39,821	2
Solomon Pond Rd	Pond View Way	100' N of Bearfoot Rd	Mill & Overlay	492	71	\$51,962	106
Davis St	50' N Of Thayer St	Town Line (Westborough)	Mill & Overlay	4,344	72	\$198,791	52
Gates Ln	Little Pond Rd	Cul De Sac	Mill & Overlay	539	72	\$33,230	2
Hudson St	Solomon Pond Rd	Town Line	Mill & Overlay	2,036	72	\$89,561	52
Milestone Ln	Little Pond Rd	Cul De Sac	Mill & Overlay	369	72	\$25,012	2
Bartlett St	Lyman St	Town Line	Prev. Maint. Surfacing	4,495	73	\$121,617	91
Berlin Rd	Whitney St	Town Line	Prev. Maint. Surfacing	966	73	\$14,025	91
Fernbrook Rd	Woodland Rd (N)	Samuel Gamwel Rd	Prev. Maint. Surfacing	1,664	73	\$24,160	18
Hamilton Rd	Wilson Rd	Davis St	Prev. Maint. Surfacing	2,237	73	\$38,384	18
Lexington Rd	Route 20	Cul De Sac	Prev. Maint. Surfacing	728	73	\$15,146	4
Patrick Dr	Coolidge Circle	Cherlyn Dr	Prev. Maint. Surfacing	765	73	\$13,631	18
River St	Route 20	836' N of Route 20	Prev. Maint. Surfacing	837	73	\$12,148	18
South St	Northgate Rd	Longfellow Rd	Prev. Maint. Surfacing	2,427	73	\$44,842	182
Little Pond Rd	E Main St	Route 20	Prev. Maint. Surfacing	4,442	74	\$93,809	18
Solomon Pond Rd	Hudson St	Pond View Way	Prev. Maint. Surfacing	1,399	74	\$24,923	180
Woodland Rd	Birch Hill Dr	Samuel Gamwel Rd	Prev. Maint. Surfacing	1,286	74	\$20,369	18
Agawam Dr	Indian Meadows Dr	Cul De Sac	Prev. Maint. Surfacing	413	75	\$10,675	4
Assabet Dr	Beverly Road	Cul De Sac Loop	Prev. Maint. Surfacing	835	75	\$15,423	4
Bartlett St	E Main St	Main St	Prev. Maint. Surfacing	337	75	\$7,117	18
Beeman Rd	Talbot Rd	Cul De Sac	Prev. Maint. Surfacing	1,630	75	\$36,653	4
Church St	250' W Of Colby St	Pleasant St (W)	Prev. Maint. Surfacing	2,993	75	\$43,456	177
Church St	300' E Of Ball St	Town Line (Boylston)	Prev. Maint. Surfacing	1,055	75	\$30,638	177
Coolidge Cir	Whitney St	Cul De Sac	Prev. Maint. Surfacing	3,559	75	\$66,566	18
Davis St	W Main St	130' N of Route 20	Prev. Maint. Surfacing	3,270	75	\$47,479	89
E Main St	Route 20 (E)	300' N of Route 20 (E)	Prev. Maint. Surfacing	75	75	\$996	89
Greenwood Rd	South St	Northgate Rd	Prev. Maint. Surfacing	832	75	\$12,629	18

## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Gristmill Ln	Little Pond Rd	Cul De Sac	Prev. Maint. Surfacing	471	75	\$12,328	4
Kendall Dr	South St	Dead End	Prev. Maint. Surfacing	1,029	75	\$18,336	4
Lincoln St	Oak Ave	Pleasant St	Prev. Maint. Surfacing	2,041	75	\$36,367	18
Mashpee Cir	Indian Meadows Dr	Cul De Sac	Prev. Maint. Surfacing	477	75	\$11,987	4
Morse Cir	Coolidge Circle	Cul De Sac	Prev. Maint. Surfacing	596	75	\$13,686	4
Otis St	903' N of Town Line	Town Line	Prev. Maint. Surfacing	904	75	\$29,820	89
River St	209' S of Hudson St	Hudson St	Prev. Maint. Surfacing	209	75	\$3,860	18
Shady Lane	Pinehaven Dr (S)	Pinehaven Dr (N)	Prev. Maint. Surfacing	2,318	75	\$33,655	4
South St	Route 20	Assabet Dr	Prev. Maint. Surfacing	2,048	75	\$37,837	177
Adams Rd	Meadow Rd	Wilson Rd	Prev. Maint. Surfacing	769	76	\$12,180	18
Collins Rd	Ridge Rd	Brigham St	Prev. Maint. Surfacing	2,059	76	\$29,895	18
Crawford St	W Main St	West St	Prev. Maint. Surfacing	5,972	76	\$78,822	88
Leland Ave	Shady Lane (E)	Shady Lane (W)	Prev. Maint. Surfacing	685	76	\$9,946	4
Lincoln St	Route 20	Pinehaven Dr	Prev. Maint. Surfacing	1,211	76	\$22,374	18
Lyman St	Ridge Rd	Railroad Dr	Prev. Maint. Surfacing	863	76	\$13,666	88
Maple St	Route 20	Ridge Rd	Prev. Maint. Surfacing	2,073	76	\$31,471	18
Maynard St	Whitney St	Brewer St	Prev. Maint. Surfacing	3,821	76	\$52,956	18
Meadow Rd	Chesterfield Rd	Dead End	Prev. Maint. Surfacing	1,011	76	\$15,338	18
Patty Ln	Route 20	Dead End (Condo Parking Lot)	Prev. Maint. Surfacing	440	76	\$6,969	4
Riley Rd	South St	Fernbrook Rd	Prev. Maint. Surfacing	1,585	76	\$25,105	18
West St	Church St	1070' S of Church St	Prev. Maint. Surfacing	1,067	76	\$14,086	18
Church St	Whitney St	Pleasant St (E)	Prev. Maint. Surfacing	950	77	\$18,188	173
Cold Harbor Dr	West St	Cul De Sac	Prev. Maint. Surfacing	851	77	\$18,976	3
Crestwood Dr	Murdock Dr	Cul De Sac	Prev. Maint. Surfacing	1,071	77	\$22,020	3
Fairway Dr	Brigham St	Cul De Sac	Prev. Maint. Surfacing	973	77	\$19,350	3
Memorial Dr	E Main St	Cul De Sac	Prev. Maint. Surfacing	524	77	\$11,444	3
Tory Ln	Little Pond Rd	Cul De Sac	Prev. Maint. Surfacing	298	77	\$8,215	3
Wilson Rd	Hoover Rd	Cul De Sac	Prev. Maint. Surfacing	1,425	77	\$26,170	17
Birch Hill Rd	Crestwood Dr	Woodland Rd	Prev. Maint. Surfacing	1,820	78	\$28,827	17
Church St	Pleasant St (E)	250' W Of Colby St	Prev. Maint. Surfacing	1,063	78	\$16,840	171
E Main St	Allen St	Route 20 (E)	Prev. Maint. Surfacing	2,683	78	\$46,037	85
Howard St (N)	Cul De Sac	Brewer St (N)	Prev. Maint. Surfacing	666	78	\$10,198	17
Howard St (N)	Brewer St (N)	Maynard St	Prev. Maint. Surfacing	1,572	78	\$19,708	17
Lincoln St	Pinehaven Dr	Oak Ave	Prev. Maint. Surfacing	680	78	\$12,569	17
Mulligan Way	Fairway Dr	Cul De Sac	Prev. Maint. Surfacing	435	78	\$10,118	3
Sunnyhill Rd	Pinehaven Dr	Shady Lane	Prev. Maint. Surfacing	606	78	\$8,399	3

## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Cherry St	Crawford St	West St	Prev. Maint. Surfacing	1,741	79	\$17,235	17
Indian Meadow Dr	Davis St (E)	Davis St (W)	Prev. Maint. Surfacing	5,558	79	\$102,705	17
Rogers Ave	Maple St	Rooney St	Prev. Maint. Surfacing	524	79	\$6,916	3
Rooney St	Johnson Ave	Rooney St	Prev. Maint. Surfacing	302	79	\$3,787	3
Whitney St	Coolidge Circle	Whitney Ave	Prev. Maint. Surfacing	2,337	79	\$50,905	84
Abenaki Rd	Indian Meadows Dr (E)	Indian Meadows Dr (W)	Prev. Maint. Surfacing	989	80	\$17,623	3
Allen St	Allen Ct	Hudson St	Prev. Maint. Surfacing	205	80	\$3,792	83
Brigham St	Fairway Dr	School St	Prev. Maint. Surfacing	3,529	80	\$48,905	83
Dartmouth Dr	Copley Dr	Cul De Sac	Prev. Maint. Surfacing	391	80	\$9,088	3
Davis St	130' N of Route 20	130' S of Route 20	Prev. Maint. Surfacing	490	80	\$7,112	83
Meadow Rd	Northgate Rd	Northgate Rd Ext	Prev. Maint. Surfacing	644	80	\$9,778	17
Meadow Rd	Northgate Rd Ext	Chesterfield Rd	Prev. Maint. Surfacing	1,236	80	\$18,766	17
St James Dr	Route 20	Cul De Sac	Prev. Maint. Surfacing	1,054	80	\$22,278	3
Tomahawk Dr	Indian Meadows Dr	Indian Meadows Dr	Prev. Maint. Surfacing	1,050	80	\$19,403	3
Whitney St	Lancaster Rd	Bear Foot Rd	Prev. Maint. Surfacing	1,897	80	\$32,547	83
Whitney St	Bear Foot Rd	Coolidge Circle	Prev. Maint. Surfacing	3,052	80	\$52,365	83
Garrison Cir	South St	Cul De Sac	Prev. Maint. Surfacing	381	81	\$10,998	3
Increase Ward Dr	Oak Ave	Cul De Sac	Prev. Maint. Surfacing	508	81	\$12,638	3
Ruth Rd	Northgate Rd	Meadow Rd	Prev. Maint. Surfacing	693	81	\$12,806	16
Tricorner Cir	Pleasant St	Cul De Sac Loop	Prev. Maint. Surfacing	300	81	\$5,346	3
Bear Foot Rd	582' E of Whitney St	Whitney St	Prev. Maint. Surfacing	583	82	\$9,227	81
Davis Ave	South St	Saddle Hill Dr	Prev. Maint. Surfacing	431	82	\$7,111	16
Johnson Ave	Maple St	Dead End (Private Drive)	Prev. Maint. Surfacing	622	82	\$7,802	3
Buckhill Rd	Old Colonial Rd	Cul De Sac	Routine Maint. (w/Patch)	543	84	\$3,106	9
E Main St	Route 20 (W)	Allen St	Routine Maint. (w/Patch)	1,984	84	\$8,511	236
Green St	Brewer St (N)	3500' N of Brewer St	Routine Maint. (w/Patch)	3,545	84	\$11,112	47
Green St	Ball St	Boylston Town Line	Routine Maint. (w/Patch)	3,312	84	\$10,382	47
Crestwood Dr	Rt 20	Murdock Dr	Routine Maint. (w/Patch)	1,570	85	\$6,735	47
Kimball Ln	Juniper Brook Rd	Cul De Sac	Routine Maint. (w/Patch)	343	85	\$2,459	9
Otis St	Davis St	Thayer St	Routine Maint. (w/Patch)	1,266	85	\$4,593	233
Pinehaven Dr	Route 20	Lincoln St	Routine Maint. (w/Patch)	2,083	85	\$7,217	47
School St	Brigham St	Juniper Brook Rd	Routine Maint.	1,373	85	\$2,115	17
South St	Assabet Dr	Northgate Rd	Routine Maint. (w/Patch)	3,582	85	\$16,545	467
Washburn St	Mohawk Dr	Whitney St	Routine Maint. (w/Patch)	1,706	85	\$5,630	47
Church St	288' E of Whitney St	Whitney St	Routine Maint. (w/Patch)	288	86	\$1,380	462
Green St	Howard St	Brewer St (S)	Routine Maint. (w/Patch)	1,870	86	\$6,171	46



## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Green St	558' W of Brewer St (S)	Brewer St (N)	Routine Maint. (w/Patch)	385	86	\$2,034	46
Green St	3500' N of Brewer St	Ball St	Routine Maint. (w/Patch)	3,452	86	\$10,823	46
Hoover Rd	Chesterfield Rd	Hamilton Rd	Routine Maint. (w/Patch)	774	86	\$3,193	46
Hudson St	Colburn St	Solomon Pond Rd	Routine Maint. (w/Patch)	918	86	\$3,788	462
Juniper Brook Rd	School St	Juniper Brook Rd (Loop)	Routine Maint. (w/Patch)	3,130	86	\$13,943	9
Juniper Ln	Juniper Brook Rd	Cul De Sac	Routine Maint. (w/Patch)	306	86	\$2,158	9
Old Colonial Rd	Davis St	Dead End	Routine Maint. (w/Patch)	798	86	\$2,897	9
Thayer St	Davis St	Otis St	Routine Maint. (w/Patch)	1,205	86	\$4,771	46
Whitney St	Winter St	Washburn St	Routine Maint. (w/Patch)	3,090	86	\$11,216	231
Chesterfield Rd	Northgate Rd (N)	Eliot Rd	Routine Maint. (w/Patch)	1,134	87	\$3,930	46
Church St	Route 20	288' E of Whitney St	Routine Maint.	387	87	\$864	808
Cyrus Way	Shadylane Ave	Cul De Sac	Routine Maint.	285	87	\$880	16
Eliot Rd	Chesterfield Rd	Cul De Sac	Routine Maint. (w/Patch)	789	87	\$4,387	46
Lawrence St	Hillside Rd	Route 9	Routine Maint.	2,752	87	\$4,237	81
Longfellow Rd	South St	Eliot Rd	Routine Maint. (w/Patch)	2,018	87	\$9,323	46
Otis St	Lawrence St	903' N of Town Line	Routine Maint. (w/Patch)	1,899	87	\$9,397	228
Pleasant St	Lincoln St	Church St (W)	Routine Maint. (w/Patch)	2,561	87	\$9,297	46
Rice Ave	495' N of Allen St	600' S Of Colburn St	Routine Maint.	2,409	87	\$3,710	81
Spruce Hill Dr	Rice Ave	Cul De Sac	Routine Maint.	867	87	\$1,994	16
Talbot Rd	Lyman St (N)	Lyman St (S)	Routine Maint. (w/Patch)	2,612	87	\$9,050	9
Tomblin Hill Rd	Route 20	Otis St	Routine Maint.	1,481	87	\$2,281	81
Whitney St	560' N Of Pleasant St	Winter St	Routine Maint. (w/Patch)	1,658	87	\$6,019	228
Bartlett St	530' S Of Maple St	Lyman St	Routine Maint.	1,391	88	\$4,391	399
Bear Foot Rd	Colburn St	582' E of Whitney Stt	Routine Maint.	1,363	88	\$4,199	399
Brigham St	Leland Dr	Fairway Dr	Routine Maint.	2,446	88	\$4,143	399
Brigham St	School St	South St	Routine Maint.	2,699	88	\$4,987	399
Church St Y Int	Route 20	Church St	Routine Maint.	148	88	\$251	799
Copley Dr	Berkley Rd	Cul De Sac	Routine Maint.	763	88	\$1,837	16
Davis Ave	Saddle Hill Dr	Davis St	Routine Maint.	509	88	\$980	80
Hawthorne Cir	Longfellow Rd	Cul De Sac	Routine Maint.	385	88	\$1,197	16
Howard St (S)	Green St	Cul De Sac	Routine Maint.	1,689	88	\$2,914	80
Lawrence St	Otis St	Hillside Ave	Routine Maint.	568	88	\$1,006	80
Lyman St	Bartlett St	Ridge Rd	Routine Maint.	2,210	88	\$4,084	399
Madison Rd	Meadow Rd	Adams Rd	Routine Maint.	606	88	\$1,120	80
Newton St	Cherlyn Dr (N)	225' S of Bellevue Rd	Routine Maint.	2,241	88	\$2,761	80
Newton St	450' S of Town Line	200' S of Town Line	Routine Maint.	226	88	\$278	80

## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Oak Ave	Lincoln St	Cul De Sac	Routine Maint.	2,170	88	\$4,281	16
Otis St	Thayer St	Lawrence St	Routine Maint.	1,071	88	\$2,062	399
Ridge Rd	Maple St	Collins Rd	Routine Maint.	1,504	88	\$2,316	80
Washington Rd	Northgate Rd	Jefferson Rd	Routine Maint.	792	88	\$1,646	80
Wesson Ter	Cul De Sac Loop	Wesson Terrace Loop	Routine Maint.	2,545	88	\$5,095	16
Whitney St	Whitney Ave	Town Line	Routine Maint.	659	88	\$1,674	80
Allen St	E Main St	Allen Ct	Routine Maint.	818	89	\$1,511	395
Donald St	Meadow Brook Rd	Overlook Dr	Routine Maint.	358	89	\$689	16
Jay Ave	Pinehaven Dr	Shady Lane	Routine Maint.	590	89	\$1,090	16
Mayflower Rd	Northgate Rd	Jefferson Rd	Routine Maint.	1,123	89	\$2,075	79
Weber Ln	Stirrup Brook Ln	Cul De Sac	Routine Maint.	397	89	\$984	16
Winn Ter	Winn St	Cul De Sac Loop	Routine Maint.	675	89	\$1,195	16
Woodlawn St	Pinehaven Dr	Shady Lane	Routine Maint.	643	89	\$1,089	16
Ball St 1	Ball St	Woodstone Rd	Routine Maint.	263	90	\$345	16
Blake St	Route 20	Pierce St	Routine Maint.	586	90	\$1,263	78
Davis St	Otis St	50' N Of Thayer St	Routine Maint.	1,408	90	\$2,386	391
Fawcett Orchard Rd	Woodstone Rd	Cul De Sac	Routine Maint.	377	90	\$1,136	16
School St	Route 20	Railroad	Routine Maint.	1,630	90	\$2,761	78
Forest Rd	Northgate Rd	Meadow Rd	Routine Maint.	669	92	\$1,133	76
Hudson St	Pierce St	Allen St	Do Nothing	3,819	93	\$0	0
Ridge Rd	Collins Rd	Lyman St	Do Nothing	3,082	93	\$0	0
South St	Longfellow Rd	Town Line (Westborough)	Do Nothing	1,840	93	\$0	0
Brigham St	Route 20	Leland Dr	Do Nothing	1,100	94	\$0	0
Hudson St	245' N of Route 20	Pierce St	Do Nothing	697	94	\$0	0
Meadow Brook Rd	Rice Ave	Donald St	Do Nothing	308	94	\$0	0
Monroe St	Route 20	170' N of Gale St	Do Nothing	309	94	\$0	0
Overlock Dr	Rice Ave	Cul De Sac	Do Nothing	903	94	\$0	0
Silas Dr	Hudson St	Cul De Sac	Do Nothing	248	94	\$0	0
Summer St	Route 20	South St	Do Nothing	2,489	94	\$0	0
West St	1070' S of Church St	Crawford St	Do Nothing	2,802	94	\$0	0
Brewer St (N)	Green St (W)	Howard St	Do Nothing	2,492	95	\$0	0
Castle Rd	Reservoir St	Town Line	Do Nothing	2,407	95	\$0	0
Church St	225' W Of Crawford St	300' E of Ball St	Do Nothing	1,303	95	\$0	0
Crawford St	West St	1700' N of West St	Do Nothing	1,677	95	\$0	0
Crawford St	1700' N of West St	Church St	Do Nothing	2,261	95	\$0	0
Davis St	130' S of Route 20	Otis St	Do Nothing	992	95	\$0	0

## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Halloway Ln	Milk Porridge Circle	Cul De Sac	Do Nothing	244	95	\$0	0
Howard St (S)	Winter St	Green St	Do Nothing	2,208	95	\$0	0
Hudson St	Route 20	245' N of Route 20	Do Nothing	245	95	\$0	0
Hudson St	Allen St	Colburn St	Do Nothing	2,948	95	\$0	0
Milk Porridge Cir	Brigham St	Milk Porridge Circle (Loop)	Do Nothing	2,410	95	\$0	0
Park St	Summer St	Winn St	Do Nothing	623	95	\$0	0
Pierce St	Church St	Hudson St	Do Nothing	1,175	95	\$0	0
Samuel Gamwel Rd	Clafin Farm Ln	Woodland Rd	Do Nothing	1,338	95	\$0	0
Smith Rd	Green St	Town Line	Do Nothing	3,104	95	\$0	0
West St	Crawford St	1150' E of Town Line (Shrewsbury)	Do Nothing	2,741	95	\$0	0
Woodstone Rd	Ball St 1	Ball St	Do Nothing	3,908	95	\$0	0
Assabet Dr	South St	Beverly Rd	Do Nothing	737	98	\$0	0
Brendon Dr	Catherine Dr	Cul De Sac	Do Nothing	423	98	\$0	0
Capt John Edwards Dr	Pleasant St	Cul De Sac Loop	Do Nothing	1,112	98	\$0	0
Elmwood Dr	South St	Dead End	Do Nothing	643	98	\$0	0
Joseph Rd	Catherine Dr	Cul De Sac	Do Nothing	565	98	\$0	0
Northgate Rd	South St	Davis St	Do Nothing	4,526	98	\$0	0
Sterling Ct	E Main St	Cul De Sac	Do Nothing	359	98	\$0	0
Thaddeus Mason Rd	Jethro Peters Lane	Samuel Gamwel Rd	Do Nothing	1,052	98	\$0	0
Westbrook Rd	Route 20	Cedar Hill Road	Do Nothing	1,461	98	\$0	0
Wheeler Ln	Milk Porridge Circle	Cul De Sac	Do Nothing	209	98	\$0	0
Winn St	School St	Dead End	Do Nothing	896	98	\$0	0
Beverly Rd	Summer St	Assabet Dr	Do Nothing	485	99	\$0	0
Catherine Dr	Kristyn Dr	Cul De Sac	Do Nothing	247	99	\$0	0
Allen St	Hudson St	Rice Ave	Do Nothing	576	100	\$0	0
Brewer St (S)	Church St	1915' S Of Green St (E)	Do Nothing	2,083	100	\$0	0
Brewer St (S)	1915' S Of Green St (E)	Green St (E)	Do Nothing	1,915	100	\$0	0
Catherine Dr	School St	Brendon Dr	Do Nothing	583	100	\$0	0
Catherine Dr	Brendon Dr	Kristyn Dr	Do Nothing	588	100	\$0	0
Cedar Hill Rd	South St	Cedar Hill Road (Loop)	Do Nothing	2,899	100	\$0	0
Clafin Farm Ln	Mayflower Rd	Cul De Sac	Do Nothing	987	100	\$0	0
Colburn St	Rice Ave	Bear Foot Rd	Do Nothing	1,332	100	\$0	0
Edmunds Way	Colburn St	Cul De Sac Loop	Do Nothing	1,106	100	\$0	0
Green St	Brewer St (S)	558' W of Brewer St (S)	Do Nothing	559	100	\$0	0
Jacob Cobb Ln	Thaddeus Mason Rd	Cul De Sac	Do Nothing	429	100	\$0	0
Jethro Peters Ln	Northgate Rd	Cul De Sac	Do Nothing	1,142	100	\$0	0

## Pavement Backlog Report (PCI Ascending)

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Alternative</u>	<u>Length (ft)</u>	<u>PCI</u>	<u>Repair Cost</u>	<u>Benefit Value</u>
Kent Dr	Warren Dr	Cul De Sac	Do Nothing	385	100	\$0	0
Kristyn Dr	Catherine Dr	Cul De Sac	Do Nothing	417	100	\$0	0
Macalister Dr	Maynard St	Cul De Sac	Do Nothing	1,305	100	\$0	0
Mill St	Pierce St	Dead End	Do Nothing	371	100	\$0	0
Newton St	200' W of Town Line	Town Line	Do Nothing	196	100	\$0	0
Rice Ave	Whitney St	495' N of Allen St	Do Nothing	3,591	100	\$0	0
Rice Ave	600' S Of Colburn St	Colburn St	Do Nothing	592	100	\$0	0
School St	Railroad	Golf Teaching Center	Do Nothing	1,952	100	\$0	0
School St	Golf Teaching Center	Brigham St	Do Nothing	2,132	100	\$0	0
Stratton Way	Route 20	Warren Dr	Do Nothing	1,744	100	\$0	0
Warren Dr	E Main St	Cul De Sac	Do Nothing	981	100	\$0	0
Whitney St	Church St	Whitney St Y Int	Do Nothing	130	100	\$0	0
Whitney St Y Int	Church St	Whitney St	Do Nothing	227	100	\$0	0
<b>Totals:</b>				<b>81.66 Miles</b>		<b>\$ 15,003,123</b>	

# Appendix C

---

## Unit Costs

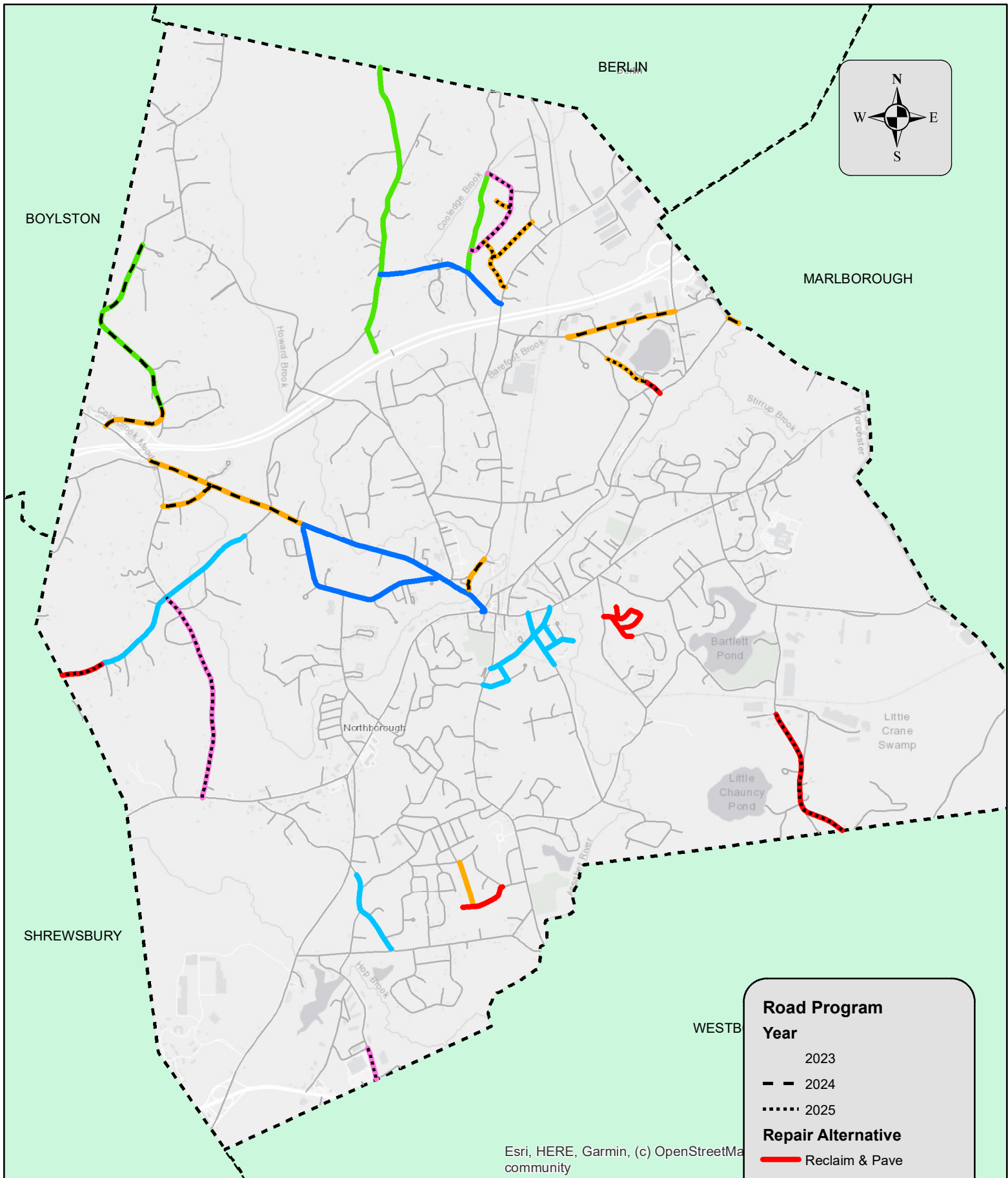
### Typical repair type for each Treatment Band

Alternative	Cost/SY
Reclaim and Pave	\$45.00
Mill and Overlay	\$16.00
Preventive Maintenance Surfacing	\$6.00
Routine Maintenance (with Patching)	\$1.50
Routine Maintenance	\$0.70

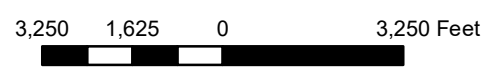
# Appendix D

---

## 3-Year Capital Plan



## 2023-2025 Pavement Management Plan



Road Program	
Year	
—	2023
- - -	2024
.....	2025
Repair Alternative	
<span style="color: red;">—</span>	Reclaim & Pave
<span style="color: orange;">—</span>	Mill & Overlay
<span style="color: green;">—</span>	Shim & Chipseal
<span style="color: cyan;">—</span>	Fog Seal
<span style="color: blue;">—</span>	Crack Seal
<span style="color: magenta;">—</span>	Bonded Wearing Course

# 2023-2025 Pavement Management Plan

## 2023

Street	From	To	Length (ft)	Miles	Width (ft)	Area (SY)	PCI	Alternative	\$/SY	Est. Cost	
Emerson Rd	Longfellow Rd	Dead End	1,370	0.26	29	4,414	39	Reclaim & Pave	45.00	\$198,650	
Thoreau Rd	Emerson Rd	Eliot Rd	1,309	0.25	28	4,072	63	Mill & Overlay	16.00	\$65,159	
Leland Dr	Brigham St	Wesson Terrace (S)	1,903	0.36	24	5,075	41	Reclaim & Pave	45.00	\$228,360	
Wesson Ter	Leland Dr	Cul De Sac Loop	845	0.16	24	2,253	50	Reclaim & Pave	45.00	\$101,400	
Rodney Ter	Leland Dr	Cul De Sac	310	0.06	26	1,076	51	Reclaim & Pave	45.00	\$48,442	
Newton St	Maynard St	Cherlyn Dr (N)	2,870	0.54	16	5,102	55	Shim & Chipseal	14.00	\$71,429	
Howard St (N)	Cul De Sac	Brewer St (N)	666	0.13	19	1,717	78	Shim & Chipseal	14.00	\$24,037	
Howard St (N)	Brewer St (N)	Maynard St	1,572	0.30	19	3,629	78	Shim & Chipseal	14.00	\$50,806	
Howard St (N)	Maynard St	Sparrow Ln	866	0.16	19	1,828	68	Shim & Chipseal	14.00	\$25,595	
Howard St (N)	Sparrow Ln	Moore Ln	2,116	0.40	19	4,468	68	Shim & Chipseal	14.00	\$62,548	
Howard St (N)	Moore Ln	Howard Ln	584	0.11	19	1,232	68	Shim & Chipseal	14.00	\$17,246	
Howard St (N)	Howard Ln	Town Line	2,403	0.46	19	5,073	68	Shim & Chipseal	14.00	\$71,029	
Summer St	Route 20	South St	2,500	0.47	22	6,084	94	Rejuvenator	1.50	\$9,126	
School St	Route 20	Railroad	1,630	0.31	22	3,984	90	Rejuvenator	1.50	\$5,976	
Beverly Rd	Summer St	Assabet Dr	500	0.09	22	1,187	99	Rejuvenator	1.50	\$1,780	
Assabet Dr	South St	Beverly Rd	740	0.14	23	1,884	98	Rejuvenator	1.50	\$2,827	
Winn St	School St	Dead End	900	0.17	17	1,692	98	Rejuvenator	1.50	\$2,539	
Park St	Summer St	Winn St	620	0.12	20	1,384	95	Rejuvenator	1.50	\$2,077	
West St	1070' S of Church St	Crawford St	2,800	0.53	20	6,226	94	Rejuvenator	1.50	\$9,339	
West St	Crawford St	1150' E of Shrewsbury TL	2,750	0.52	19	5,787	95	Rejuvenator	1.50	\$8,681	
Davis St	130' S of Route 20	Otis St	1,000	0.19	22	2,424	95	Rejuvenator	1.50	\$3,636	
Davis St	Otis St	50' N Of Thayer St	1,500	0.28	22	3,443	90	Rejuvenator	1.50	\$5,164	
Church St	Route 20	288' E of Whitney St	387	0.07	29	1,247	87	Crack Seal	0.50	\$623	
Church St	288' E of Whitney St	Whitney St	288	0.05	29	929	86	Crack Seal	0.50	\$465	
Church St	Whitney St	Pleasant St	950	0.18	29	3,062	77	Crack Seal	0.50	\$1,531	
Church St	Pleasant St	250' W Of Colby St	1,063	0.20	24	2,835	78	Crack Seal	0.50	\$1,418	
Church St	250' W Of Colby St	Pleasant St (W)	2,993	0.57	22	7,316	75	Crack Seal	0.50	\$3,658	
Maynard St	Whitney St	Brewer St	3,821	0.72	21	8,916	76	Crack Seal	0.50	\$4,458	
Pleasant St	Church St €	150' E Of Prospect St	942	0.18	26	2,721	58	Crack Seal	0.50	\$1,361	
Pleasant St	150' E Of Prospect St	Lincoln St	1,847	0.35	24	4,925	55	Crack Seal	0.50	\$2,462	
Pleasant St	Lincoln St	Church St (W)	2,561	0.49	22	6,261	87	Crack Seal	0.50	\$3,130	
									<b>8.8</b>	<b>miles</b>	<b>\$1,034,950</b>



# 2024

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Length (ft)</u>	<u>Miles</u>	<u>Width</u>	<u>Area(SY)</u>	<u>PCI</u>	<u>Alternative</u>	<u>\$/SY</u>	<u>Est. Cost</u>
Ball St	Woodstone Rd	Rocky Pond Rd	2,924	0.55	20	6,499	48	Shim & Chip Seal	18.00	\$116,982
Ball St	Rocky Pond Rd	1700' S of Green St	2,594	0.49	20	5,765	58	Shim & Chip Seal	18.00	\$103,770
Ball St	Church St	Woodstone Rd	2,019	0.38	31	7,058	51	Mill & Overlay	16.00	\$112,928
Bear Foot Rd	Solomon Pond Rd	Colburn St	3,089	0.59	40	13,728	54	Mill & Overlay	16.00	\$219,648
Boundary St	Hudson St	Town Line	341	0.06	25	947	56	Mill & Overlay	16.00	\$15,152
Church St	Pleasant St (W)	Fisher St	2,801	0.53	30	9,337	64	Mill & Overlay	16.00	\$149,392
Church St	Fisher St	225' W Of Crawford St	1,823	0.35	43	8,710	63	Mill & Overlay	16.00	\$139,360
Fisher St	Church St	Crawford St	1,524	0.29	22	3,725	52	Mill & Overlay	16.00	\$59,600
Whitney St	Whitney St Y Int	560' N Of Pleasant St	987	0.19	22	2,413	65	Mill & Overlay	16.00	\$38,608
Various Streets				4.57	26	69,708		Crack and Fog Seals	1.00	\$69,708
				<b>8.0</b>	<b>miles</b>					<b>\$1,025,148</b>

# 2025

<u>Street Name</u>	<u>From</u>	<u>To</u>	<u>Length (ft)</u>	<u>Miles</u>	<u>Width</u>	<u>Area(SY)</u>	<u>PCI</u>	<u>Alternative</u>	<u>\$/SY</u>	<u>Est. Cost</u>
Colburn St	Hudson St	250' N Of Chapin St	550	0.10	17	1,039	40	Reclaim & Pave	45.00	\$46,755
Lyman St	Railroad Dr	Town Line	4,098	0.78	24	10,929	43	Reclaim & Pave	45.00	\$491,805
West St	1150' E of Town Line (S	Town Line (Shrewsbury)	1,150	0.22	19	2,427	50	Reclaim & Pave	45.00	\$109,215
Babcock Dr	Whitney St	Cherlyn Dr	1,540	0.29	26	4,449	52	Mill & Overlay	16.00	\$71,184
Colburn St	250' N Of Chapin St	Rice Ave	1,248	0.24	17	2,358	54	Mill & Overlay	16.00	\$37,728
Scott Ln	Cherlyn Dr	Cul De Sac	442	0.08	27	1,958	62	Mill & Overlay	16.00	\$31,328
Stone Dr	Babcock Dr	Coolidge Circle	1,476	0.28	26	4,264	64	Mill & Overlay	16.00	\$68,224
Cherlyn Dr	Newton St (S)	Newton St (N)	3,016	0.57	27	9,048	67	Bonded Wearing Course	8.00	\$72,384
Crawford St	W Main St	West St	5,972	1.13	20	13,271	76	Bonded Wearing Course	8.00	\$106,168
Otis St	903' N of Town Line	Town Line	904	0.17	50	5,021	75	Bonded Wearing Course	8.00	\$40,168
Various Streets				4.14	26	63,149		Crack and Fog Seals	1.00	\$63,149
				<b>8.0</b>	<b>miles</b>					<b>\$1,138,108</b>