



Office of the
BOARD OF SELECTMEN
272 Main Street, Townsend, Massachusetts 01469

Sue Lisio, Chairman

Cindy King, Vice-Chairman

Wayne Miller, Clerk

James M. Kreidler, Jr.,
Town Administrator

(978) 597-1701

MEETING MINUTES FOR APRIL 8, 2019 10:00 A.M.
SELECTMEN'S CHAMBERS, TOWN HALL, 272 MAIN STREET, TOWNSEND, MA

I. PRELIMINARIES - VOTES MAY BE TAKEN:

- 1.1 SL called the meeting to order at 10:00A.M.
Roll call vote showed 2 members present: Chairman Sue Lisio (SL), Clerk Wayne Miller (WM) and absent Vice-Chairman Cindy King (CK).
- 1.2 Pledge of Allegiance
- 1.3 SL announce that the meeting is being tape recorded.
- 1.4 Chairman's Additions or Deletions - None.
SL added - upcoming meetings.

II. MEETING BUSINESS - VOTES MAY BE TAKEN:

- 2.1 Discussion, RE: Road Management Plan.
SL asked Mr. Kreidler to give a background on the pavement management plan. Mr. Kreidler explained this was to update the original plan from 2015 to compensate the work that the Highway Dept has accomplished. Mr. Kreidler informed the Board all in, the town would be looking at approximately 15 million so the 5 million will be to address the most critical roads and projects. Mr. Kreidler reviewed each slide of the updated plan on an overhead projector for the Board- see attached.

The Highway Superintendent attended to answer any questions. Members of the Finance Committee present: Sam Grant, Jerrilyn Bozicas, and Lynn Pinkerton. Discussion regarding the retainer cost for any additional work needed, like drainage & piping. Mr. Smith stated he would be the one that would analyze and cost out any addition work that is needed. Mr. Kreidler reviewed the funding proposal with the Board - please see attached.

SL recessed the meeting for five minutes.

SL called the meeting back to order.

WM liked the overlay, noting he would like the engineer available to speak at town meeting. WM would like to know the average in other communities. SL stated she would like to see an Engineer oversee the entire project if it passes. Mr. Kreidler informed the

Board there's a 1 million contingency so that would be possible with current funding request.

- UPCOMING MEETINGS:

SL noted April 18th the Board would be meeting at 10:30AM for an executive session, at 1:00P.M., for a discussion regarding Cable, and at 5:30P.M., for the Town Administrator evaluation, pavement vendor presentation, warrant signing and possible executive session regarding the School Resource Officer position.

III. ADJOURNMENT:

WM moved to adjourn at 10:55A.M. SL seconded. Unanimous vote.

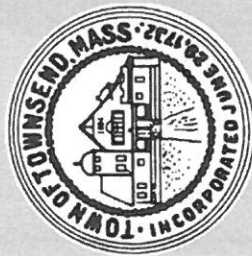
Respectfully submitted by,



Carolyn Smart, Executive Assistant to the Town Administrator

Voted to approve the meeting minutes for the meeting of April 8, 2019 by the Board of Selectmen this

21 day of May, 2019.



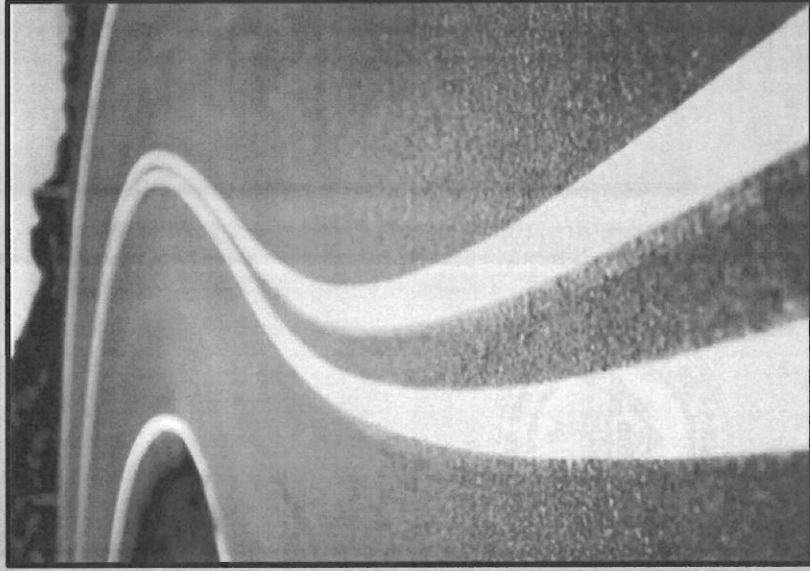
Town of Townsend Highway Department

Pavement Management Program

Draft

April 14, 2019

Pavement Management



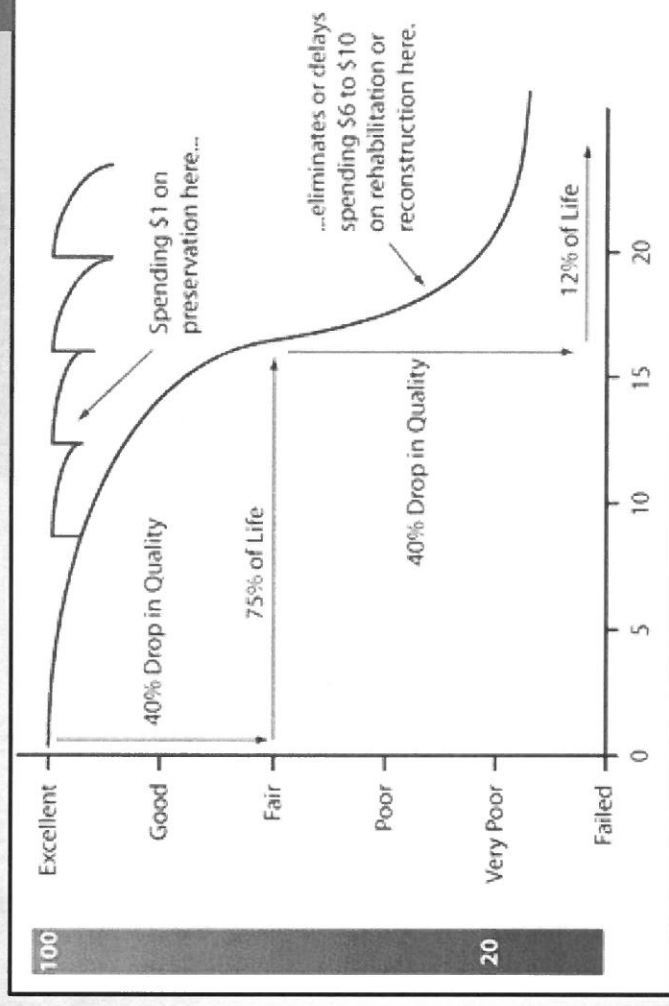
- The practice of planning for pavement maintenance and rehabilitation with the goal of maximizing the value and life of a pavement network

***Perform the right repair
at the right time!***



Pavement Management

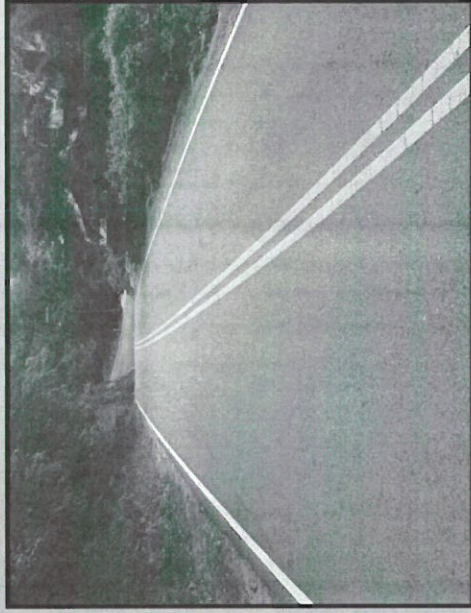
- Asset Management & Forecasting Tool
- It is more cost effective to keep good roads in good condition



Source: Federal Highway Administration



Pavement Management



Maintenance

- Crack Seal
- Fog Seal
- Pothole/Utility

Patching

Surface Treatment

- Chip Seal
- Microsurfacing
- HMA Overlay

Structural Repair

- Mill and Overlay
- Reclamation
- Reconstruction



Comprehensive 5-Step Approach

1. Roadway Inventory & GIS Mapping

2. Field Inspection Program

3. Existing Conditions Summary

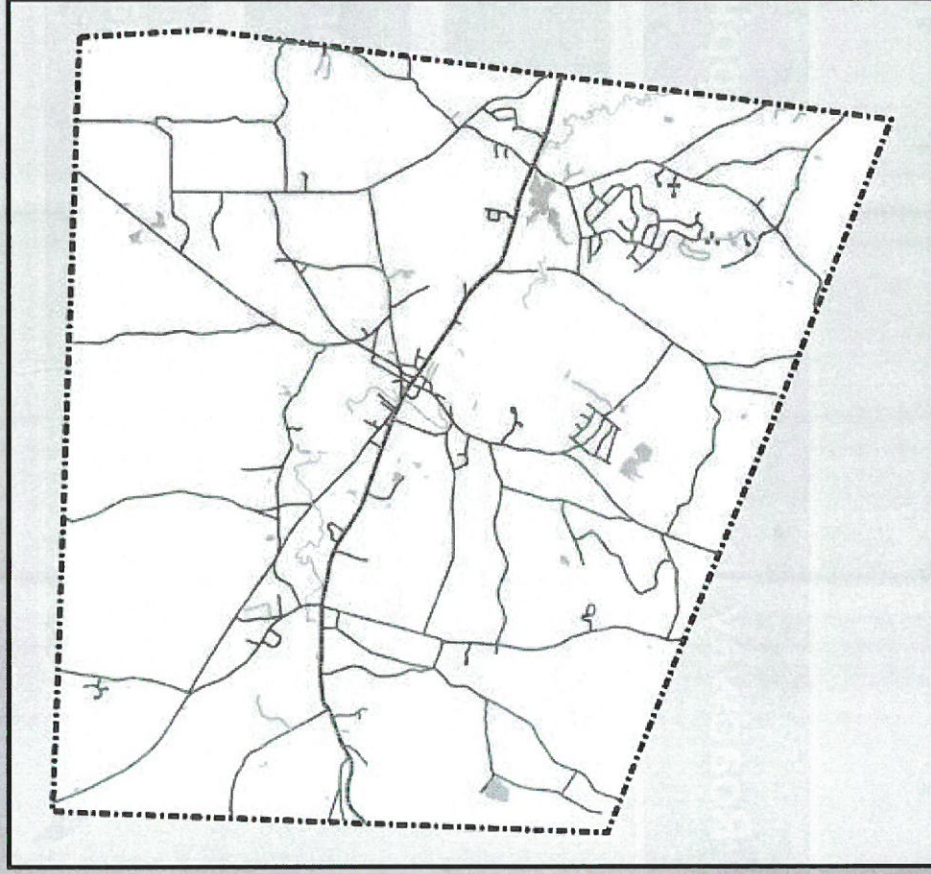
4. Capital Improvement Planning

5. System Maintenance



Roadway Inventory & GIS Mapping

Townsend Roadway Profile



Type	Miles
Accepted	85.82
Unaccepted	1.48
Private	2.98
State	6.52
Total	96.80



* Inspected road miles does not include gravel roads



System Interface

MS Access

BETA

Pavement Management Program

Forms

Roadway Inspection

Inspection/Inventory Table

Roadway Status

Capital Planning Worksheet

Roadway Repair History

Reports

Inspection

Inventory

Status

Capital Planning

Roadway Repair History

Analysis

Cost Benefit Value (CBV) Reports

RSR Forecasting Worksheet

Settings

Repair Categories - Banding - Costs

Distress Weighting

Repair Category Descriptions

Func. Class. Description

GIS

Asset Inventory Mapping

Town of Townsend, Massachusetts - May, 2015 - Version 10

Non-Proprietary
System

Roadway Repair Backlog Summary - Accepted

Town of Townsend, Massachusetts

Repair Method	Length (Miles)	Square Yards	Percent Repair	Estimated Cost
Reclamation	32.48	464,295.68	40.23%	\$11,143,096.26
M18 and Overlay	15.48	265,101.51	19.17%	\$3,281,644.22
Preventative Maintenance	4.48	64,202.29	5.55%	\$513,618.30
Crack Seal	23.79	338,257.88	29.47%	\$163,378.84
Drill Maintenance	4.50	58,595.35	5.57%	\$50.00
Total:	80.73	1,131,942.71	100.00%	\$15,107,717.72

Average RSR By Segment: 57.10

Inspection Reports

Roadway Repair Categories and Banding	Overview of Current PMP Roadway Repair Methods and Banding
Roadway Repair Backlog Summary - Accepted	Accepted Roadway Network Rating Shown By Repair Type
Roadway Repairs With Segment Description	Accepted Roadway Network Rating Shown By Functional Classification
Roadways Sorted - Alphabetically	Accepted Roadway Network With Detailed Segment Description
Roadways Sorted - Road Surface Rating (RSR)	Roadway Network With Overall Roadway Description Sorted Alphabetically
Roadways Sorted - Functional Classification	Roadway Network With Overall Roadway Description Sorted By (RSR) Worst to Best
	Roadway Network With Overall Roadway Description Sorted By Func. Class Worst to Best



Road Surface Rating

Pavement Inspection Form



Roadway Inspection

Location

GIS ID: 93
 Street Search: BARKER HILL ROAD
 Segment Name: BARKER HILL RD-02
 From Street: DUDLEY RD
 To Street: NEW HAMPSHIRE SL

Status

Owner: Town
 Acceptance Status: Accepted
 DOT Owner: Town
 DOT Acceptance Status: Accepted
 Inspection Area: 1

RSR

RSR: 64
 Refresh RSR
 Historic RSR

Roadway Inspection

Inspector: BETA
 Inspection Date: 8/14/2014
 Pavement Material: BC
 Length Feet: 9,339.40
 Length Miles: 1.77
 Width: 18.00

Distress Data

Distress	Severity	Extent (%)
Linear Cracking	Moderate	30
Alligator Cracking	Moderate	30
Potholes	High	20
Edge Cracking	High	10
Parting	None	0
Roughness	High	20
Drainage	None	0
Skidding	None	0

Other Data

Utility Cuts: No
 Existing Crack Seal: No
 De-lamination: No
 Longitudinal Joint: No

Striping Data

Centerline: No
 Edge/Line Odd: No
 Edge/Line Even: No

Curb Data

Odd Curb Type: CC Berm
 Even Curb Type: CC Berm
 Avg. Revolt: 6

Sidewalk Data

Exists Odd Side: No
 Exists Even Side: No
 Material Odd Side: None
 Material Even Side: None

Notes

0

Record: 14 of 34 of 392 | No Filter

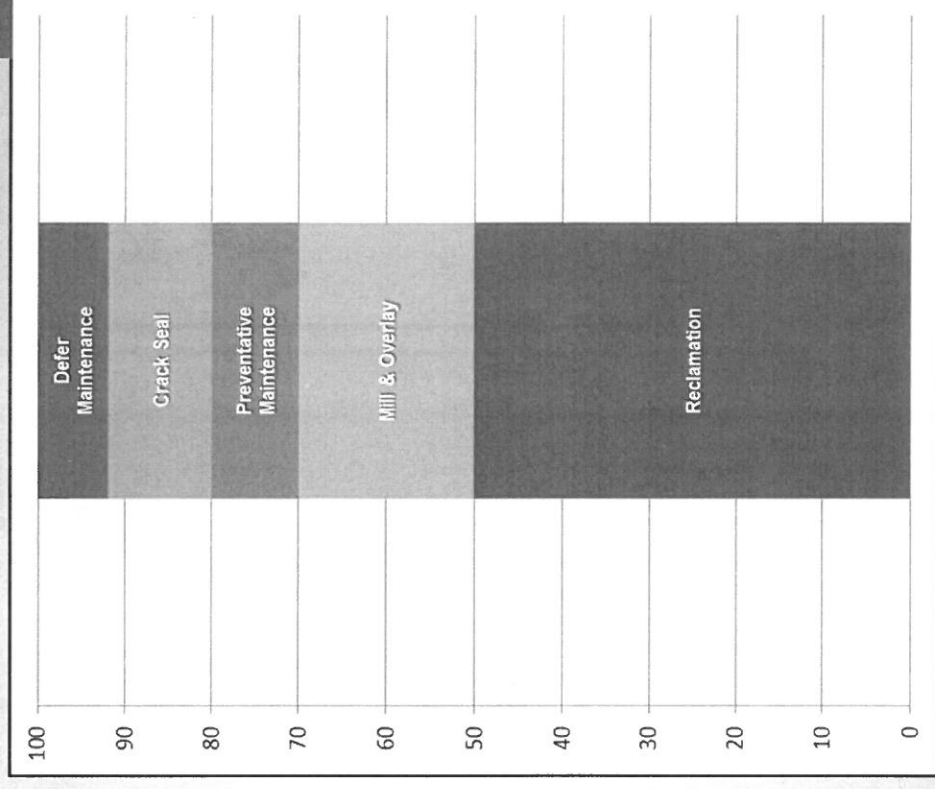
- Calculate Road Surface Rating (RSR) based on existing distresses
- Ratings are 0 to 100 (Worst to Best)
- Line striping, curb and sidewalk information identified



Repair Methods & Unit Costs

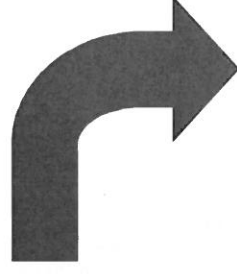
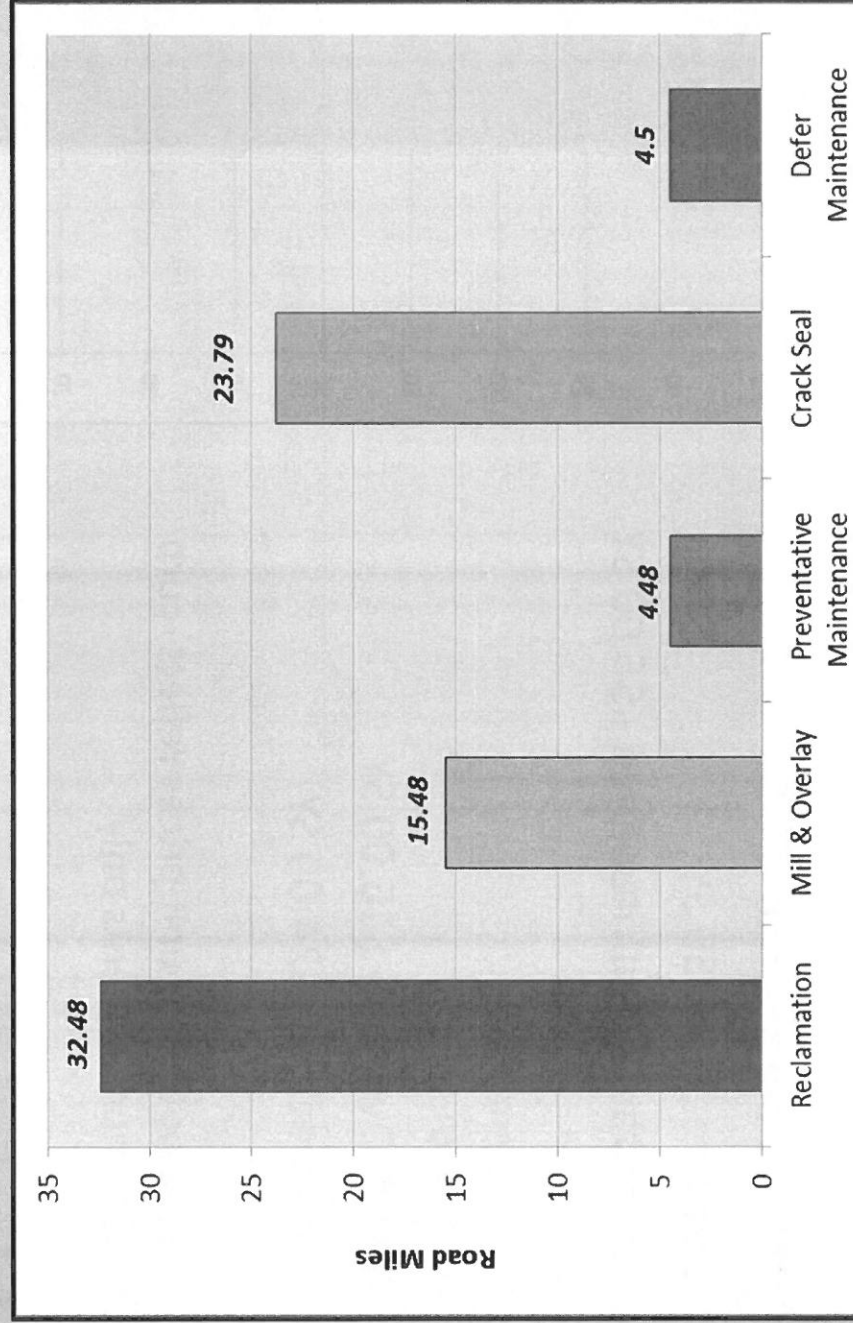
- Defer Maintenance- \$0 SY
- Crack Seal - \$0.50 SY
- Preventative Maintenance - \$6.00 SY
 - Chip Seal
 - Microsurfacing
 - HMA Overlay
- Mill & Overlay - \$16.00 SY
- Reclamation - \$24.00 SY

* Please note that unit prices reflect curb to curb improvements only



Existing Conditions Summary

General Rating By Mile*



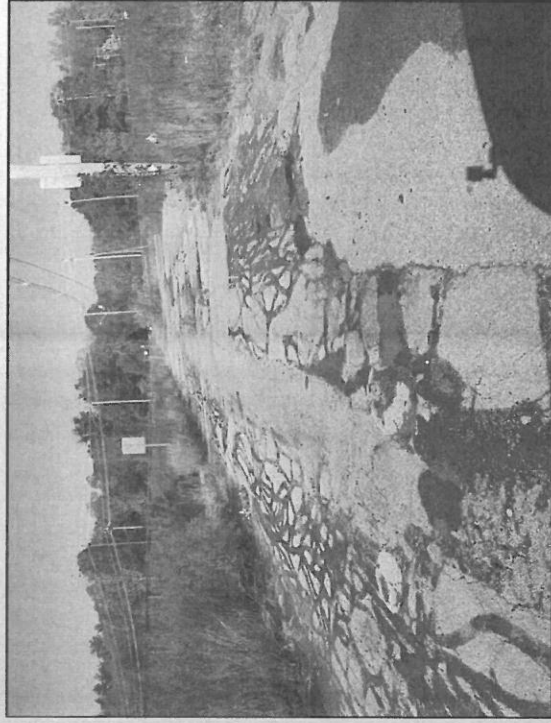
**Approx. 80.73
Road Miles
RSR = 57.10**



***Town Accepted Paved Roadways Only**

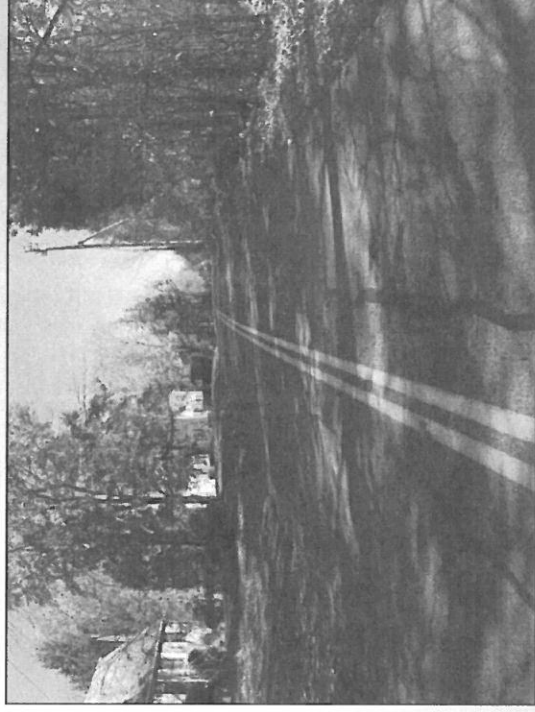
Field Inspection Program

Representative Conditions



Kendrick St

RSR = 20



May St - 03

RSR = 45



Field Inspection Program

Representative Conditions



Creek St - 02

RSR = 73



Elysium St - 01

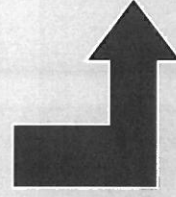
RSR = 95



Existing Conditions Summary

Breakdown By Repair Method

Backlog Summary				
Repair Method	Length (Miles)	Square Yards	Percent Repair	Estimated Cost
Major Rehabilitation	32.48	464,296	40.23%	\$11,143,096.26
Minor Rehabilitation	15.48	205,102	19.17%	\$3,281,624.22
Preventative Maintenance	4.48	64,202	5.55%	\$513,618.30
Routine Maintenance	23.79	338,758	29.47%	\$169,378.94
No Maintenance Required	4.5	59,585	5.57%	\$0.00
Total	80.73	1,131,943	100%	\$ 15,107,717.72
Network Level RSR	57.10			



Backlog = Approx. \$15.1 Million

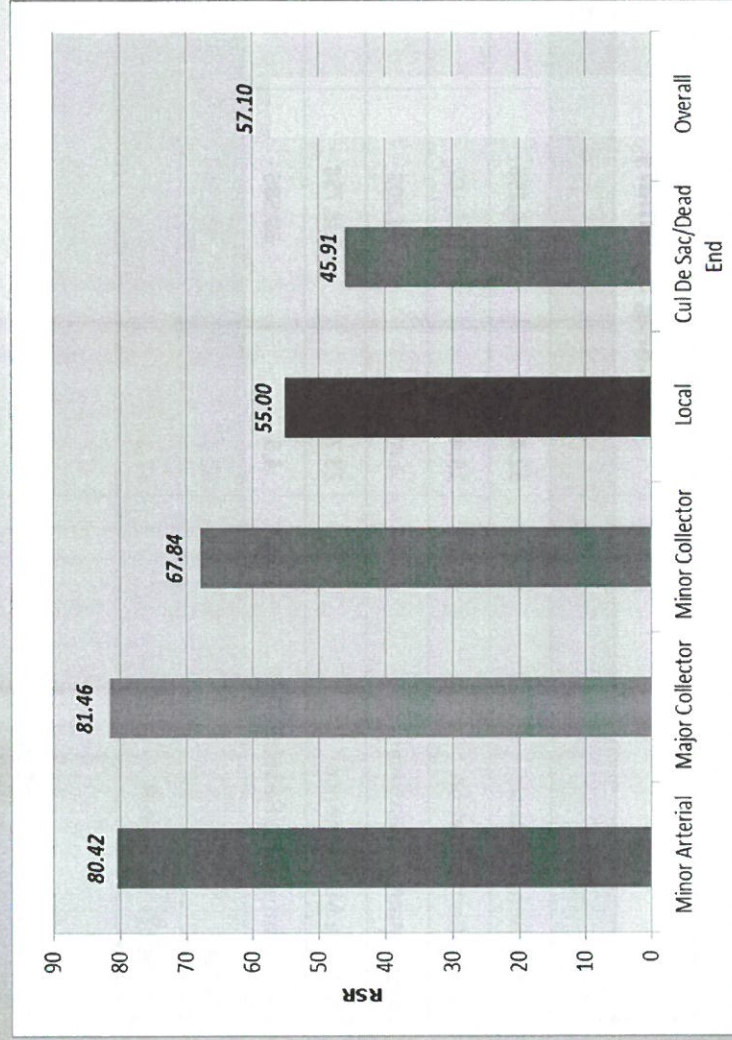


*Curb to Curb Improvements Only
Does Not Include Drainage, Sidewalks, Ramps



Existing Conditions Summary

RSR Breakdown By Functional Class



RSR by Functional Class		
Functional Class	AVG. RSR	Total Miles
Minor Arterial	80.42	6.18
Major Collector	81.46	6.96
Minor Collector	67.84	7.08
Local	55.00	46.77
Cul De Sac/Dead End	45.91	13.74
Overall	57.10	80.73



CIP Development

Priority Roads

- Ash Street
- Beech Street
- Highland Street
- Maplewood Drive
- Seaver Road
- South Row Road
- Bayberry Hill Road
- Clement Road
- New Fitchburg Road
- Woodland Drive
- Worcester Road
- Old City Road

- Wyman Road
- Canal Street
- Greenville Road
- Mason Road
- Turnpike Road
- Cross Street
- Smith Street

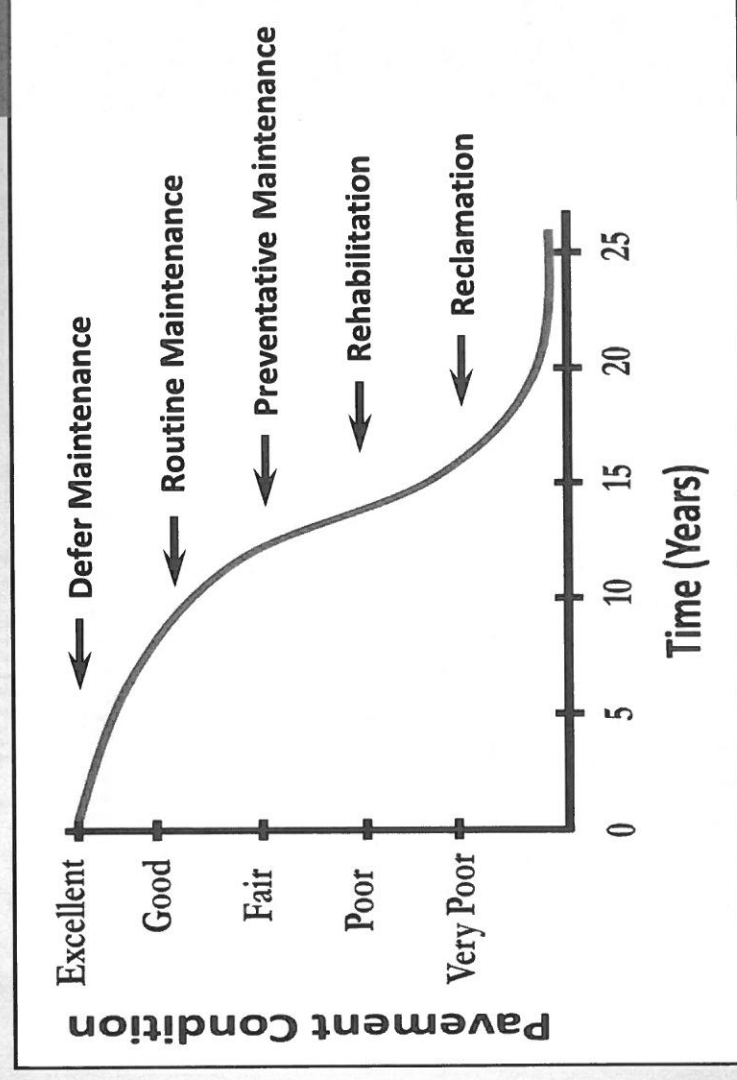
Estimated Cost
\$5.1 Million



*Town Accepted Paved Roadways Only

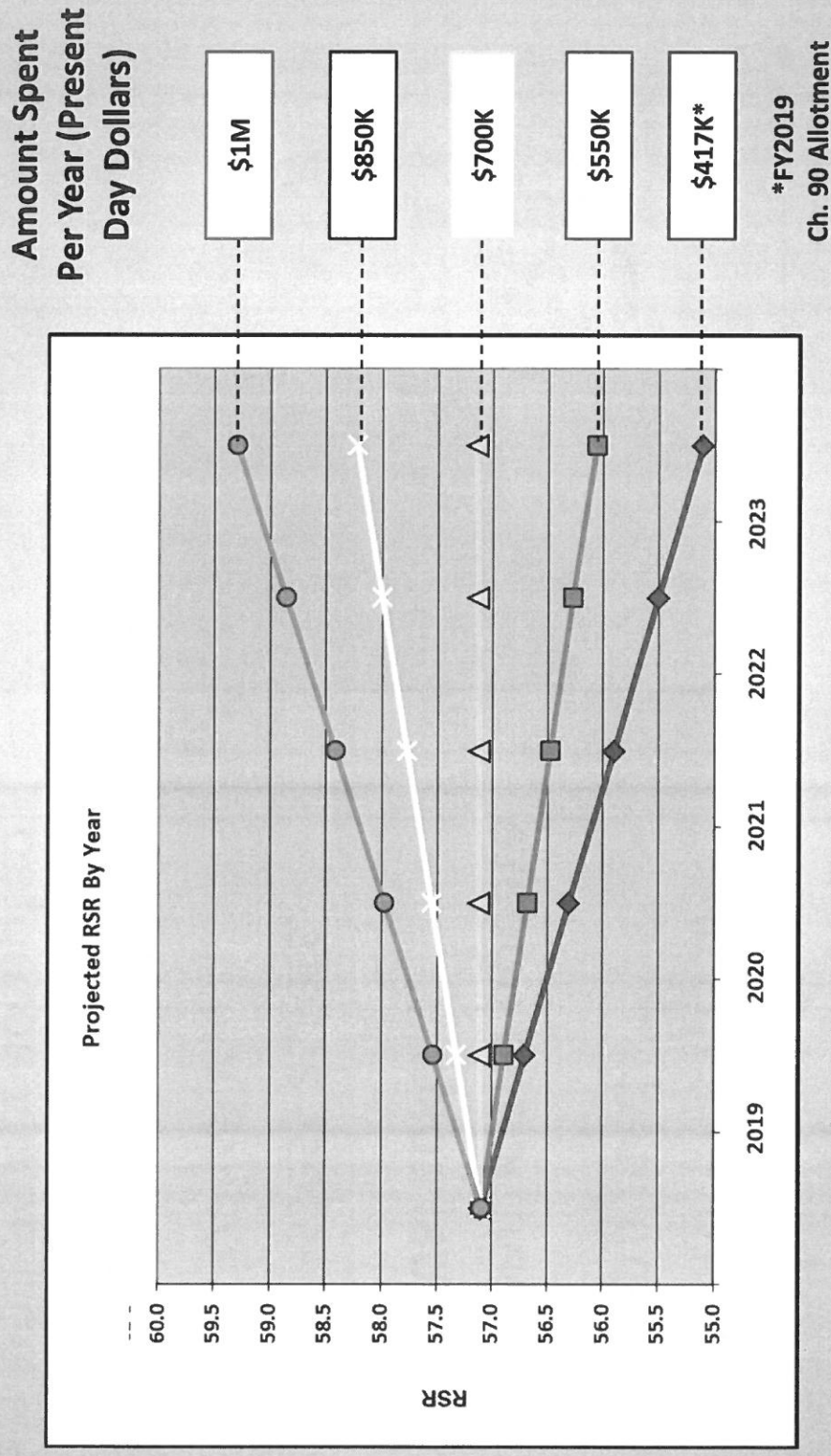
CIP Development

- Target RSR & Budget Requirements
- Refine Repair Methods Unit Costs
- Prioritization Strategies (CBV)
- ADA & Utility Coordination
- Deterioration Rates



CIP Development

RSR Forecasting – 5 Years (Standard Model)



Roadway Forecast Model Percentage Breakdown:

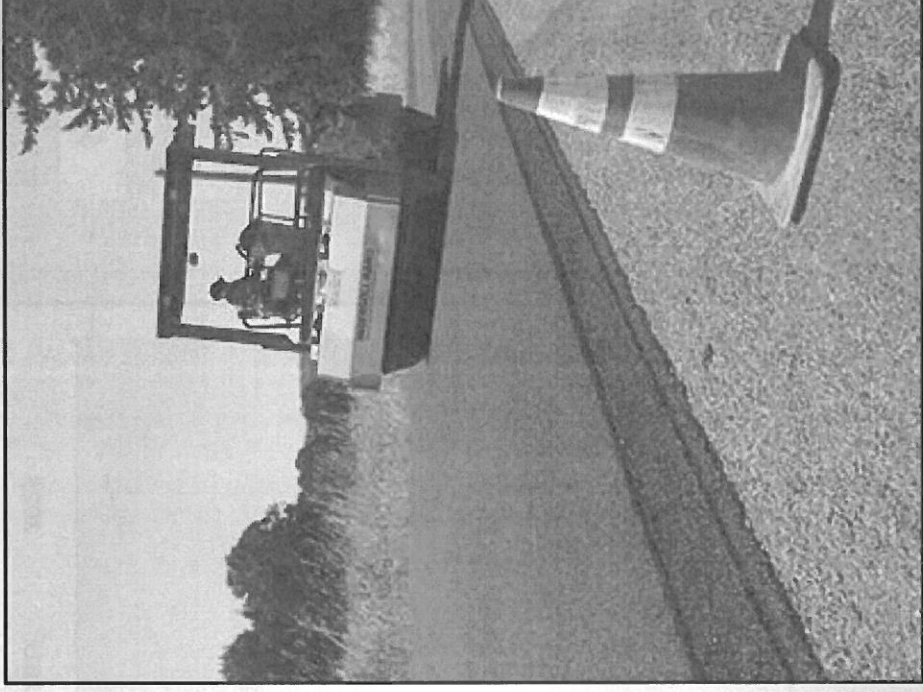
- Routine Maintenance – 10%
- Preventative Maintenance – 25%
- Minor Rehabilitation – 40%
- Major Rehabilitation – 25%

*Town Accepted Paved Roadways Only



System Maintenance

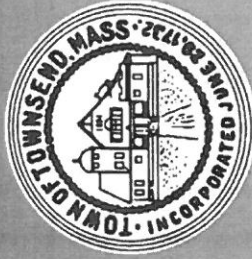
- ◎ Update data as improvements are completed
- ◎ Monitor and update actual costs
- ◎ Re-assess assets periodically
- ◎ Add new subdivisions and newly accepted roads to database



Town of Townsend Highway Department

Pavement Management Program

April 14, 2019



Town of Townsend, Massachusetts

Pavement Management Program

Proposed 2019 to 2021 Capital Improvement Plan - Summary

*Costs Serve For Estimating Purposes Only - Not to be used for Bidding/Construction

DRAFT - 4/1/2019	Length (Miles)	Square Yards	Repair	Police	Contingency	Supplemental	Total
2019							
Debt Exclusion							
Shim and Overlay	1.91	22,688.12	\$272,257.48	\$13,613.00	\$27,226.00	\$0.00	\$313,096.00
Mill and Overlay	4.21	68,465.07	\$1,095,441.15	\$54,772.00	\$109,547.00	\$0.00	\$1,259,759.00
Funding Total:	6.12	91,153.20	\$1,367,698.63	\$68,385.00	\$136,773.00	\$0.00	\$1,572,855.00
Pavement Management Fund							
Crack Seal	5.07	65,375.17	\$32,687.58	\$0.00	\$0.00	\$0.00	\$32,687.00
Surface Treatment	2.64	27,402.79	\$232,923.75	\$11,646.00	\$23,293.00	\$0.00	\$267,863.00
Reclamation	1.04	14,665.69	\$351,976.60	\$17,599.00	\$35,196.00	\$0.00	\$404,772.00
Funding Total:	8.75	107,443.65	\$617,587.93	\$29,245.00	\$58,489.00	\$0.00	\$705,322.00
Year Total:	14.87	198,596.85	\$1,985,286.56	\$97,630.00	\$195,262.00	\$0.00	\$2,278,177.00
2020							
Debt Exclusion							
Shim and Overlay	1.12	12,675.18	\$152,102.18	\$7,605.00	\$15,210.00	\$0.00	\$174,918.00
Mill and Overlay	6.62	100,002.61	\$1,600,041.74	\$80,004.00	\$160,003.00	\$0.00	\$1,840,048.00
Funding Total:	7.75	112,677.79	\$1,752,143.92	\$87,609.00	\$175,213.00	\$0.00	\$2,014,966.00
Pavement Management Fund							
Crack Seal	4.15	63,216.87	\$31,608.43	\$0.00	\$0.00	\$0.00	\$31,608.00
Surface Treatment	3.45	56,085.12	\$476,723.54	\$23,836.00	\$47,673.00	\$0.00	\$548,232.00
Reclamation	0.64	9,696.77	\$232,722.46	\$11,635.00	\$23,272.00	\$0.00	\$267,631.00
Funding Total:	8.24	128,998.76	\$741,054.44	\$35,471.00	\$70,945.00	\$0.00	\$847,471.00

BETA Group, Inc.

	Length (Miles)	Square Yards	Repair	Police	Contingency	Supplemental	Total
Year Total:	15.98	241,676.55	\$2,493,198.37	\$123,080.00	\$246,158.00	\$0.00	\$2,862,437.00
2021							
Debt Exclusion							
Shim and Overlay	0.59	7,597.46	\$91,169.47	\$4,559.00	\$9,117.00	\$0.00	\$104,844.00
Mill and Overlay	4.95	79,985.59	\$1,279,769.44	\$63,990.00	\$127,975.00	\$0.00	\$1,471,734.00
Funding Total:	5.54	87,583.05	\$1,370,938.92	\$68,549.00	\$137,092.00	\$0.00	\$1,576,578.00
Pavement Management Fund							
Crack Seal	5.02	69,627.04	\$34,813.52	\$0.00	\$0.00	\$0.00	\$34,814.00
Surface Treatment	1.77	18,718.80	\$159,109.81	\$7,955.00	\$15,911.00	\$0.00	\$182,976.00
Reclamation	1.76	27,539.19	\$660,940.56	\$33,048.00	\$66,095.00	\$0.00	\$760,083.00
Funding Total:	8.56	115,885.03	\$854,863.89	\$41,003.00	\$82,006.00	\$0.00	\$977,873.00
Year Total:	14.10	203,468.08	\$2,225,802.80	\$109,552.00	\$219,098.00	\$0.00	\$2,554,451.00
Total:	44.96	643,741.48	\$6,704,287.73	\$330,262.00	\$660,518.00	\$0.00	\$7,695,065.00

Town of Townsend, Massachusetts

Pavement Management Program

Proposed 2019 to 2021 Capital Improvement Plan

*Costs Serve For Estimating Purposes On - Not to be used for Bidding/Construction.

DRAFT - 4/1/2019										
2019										
Debt Exclusion										
1.11 Miles										
ASH STREET										
ASH ST-01	SOUTH HARBOR RD	BIRCH LN	Mill and Overlay	31	1,319.53	\$21,112.56	\$1,056.00	\$2,111.00	\$0.00	\$24,279.00
ASH ST-02	BIRCH LN	SYCAMORE DR	Mill and Overlay	31	1,395.03	\$22,320.46	\$1,116.00	\$2,232.00	\$0.00	\$25,669.00
ASH ST-03	SYCAMORE DR	CEDAR CIR	Mill and Overlay	31	5,529.40	\$88,470.46	\$4,424.00	\$8,847.00	\$0.00	\$101,741.00
ASH ST-04	CEDAR CIR	REDWOOD DR	Mill and Overlay	31	664.07	\$10,625.09	\$531.00	\$1,063.00	\$0.00	\$12,219.00
ASH ST-05	REDWOOD DR	CHESTNUT DR	Mill and Overlay	31	657.21	\$10,515.42	\$526.00	\$1,052.00	\$0.00	\$12,093.00
ASH ST-06	CHESTNUT DR	MAPLEWOOD DR	Mill and Overlay	31	1,536.65	\$24,586.35	\$1,229.00	\$2,459.00	\$0.00	\$28,274.00
ASH ST-07	MAPLEWOOD DR	HICKORY DR	Mill and Overlay	31	768.67	\$12,298.66	\$615.00	\$1,230.00	\$0.00	\$14,143.00
ASH ST-08	HICKORY DR	ALYSSA DR	Mill and Overlay	31	6,054.50	\$96,872.02	\$4,844.00	\$9,687.00	\$0.00	\$111,403.00
ASH ST-09	ALYSSA DR	PONDEROSA DR	Mill and Overlay	31	2,184.39	\$34,950.18	\$1,748.00	\$3,495.00	\$0.00	\$40,193.00
Project Totals:				20,109.45	\$321,751.20	\$16,089.00	\$32,176.00	\$0.00	\$370,014.00	
0.45 Miles										
BEECH STREET										
BEECH ST-01	WARREN RD	WALNUT ST	Mill and Overlay	30	2,569.95	\$41,119.18	\$2,056.00	\$4,112.00	\$0.00	\$47,287.00
BEECH ST-02	WALNUT ST	MAPLEWOOD DR	Mill and Overlay	30	532.09	\$8,513.51	\$426.00	\$851.00	\$0.00	\$9,791.00
BEECH ST-03	MAPLEWOOD DR	SPRUCE ST	Mill and Overlay	30	1,155.81	\$18,493.01	\$925.00	\$1,849.00	\$0.00	\$21,267.00
BEECH ST-04	SPRUCE ST	MAPLEWOOD DR	Mill and Overlay	30	3,608.88	\$57,742.04	\$2,887.00	\$5,774.00	\$0.00	\$66,403.00
Project Totals:				7,866.73	\$125,867.73	\$6,294.00	\$12,586.00	\$0.00	\$144,748.00	
1.71 Miles										
HIGHLAND STREET										
HIGHLAND ST-01	MAIN ST	OSGOOD ST	Mill and Overlay	26	1,000.46	\$16,007.34	\$800.00	\$1,601.00	\$0.00	\$18,408.00
HIGHLAND ST-02	OSGOOD ST	SCHOOL ST	Mill and Overlay	26	1,613.50	\$25,816.05	\$1,291.00	\$2,582.00	\$0.00	\$29,688.00
HIGHLAND ST-03	SCHOOL ST	BROOKLINE ST	Mill and Overlay	26	1,094.11	\$17,505.70	\$875.00	\$1,751.00	\$0.00	\$20,132.00
HIGHLAND ST-04	BROOKLINE ST	STERNS AVE	Mill and Overlay	26	1,950.42	\$31,206.70	\$1,560.00	\$3,121.00	\$0.00	\$35,888.00
HIGHLAND ST-05	STERNS AVE	SMITH ST	Mill and Overlay	26	4,402.65	\$70,442.37	\$3,522.00	\$7,044.00	\$0.00	\$81,009.00
HIGHLAND ST-06	SMITH ST	OLD MEETING HOUSE R	Mill and Overlay	26	1,294.14	\$20,706.17	\$1,035.00	\$2,071.00	\$0.00	\$23,812.00
HIGHLAND ST-07	OLD MEETING HOUSE RD	ADAMS RD	Mill and Overlay	26	4,334.72	\$69,355.53	\$3,468.00	\$6,936.00	\$0.00	\$79,759.00
HIGHLAND ST-08	ADAMS RD	WALLACE HILL RD	Mill and Overlay	26	10,334.27	\$165,348.36	\$8,267.00	\$16,535.00	\$0.00	\$190,151.00
Project Totals:				26,024.26	\$416,388.22	\$20,818.00	\$41,641.00	\$0.00	\$478,847.00	
0.95 Miles										
MAPLEWOOD DRIVE										
MAPLEWOOD DR-01	BEECH ST	BEECH ST	Mill and Overlay	26	3,800.47	\$60,807.47	\$3,040.00	\$6,081.00	\$0.00	\$69,929.00
MAPLEWOOD DR-02	BEECH ST	BALSAM DR	Mill and Overlay	26	751.58	\$12,025.34	\$601.00	\$1,203.00	\$0.00	\$13,829.00
MAPLEWOOD DR-03	BALSAM ST	PONDEROSA DR	Mill and Overlay	26	6,508.85	\$104,141.59	\$5,207.00	\$10,414.00	\$0.00	\$119,763.00

BETA Group, Inc.

DRAFT - 4/1/2019

	Repair Type	Width	Square Yards	Repair	Police	Contingency	Supplemental	Total
MAPLEWOOD DR-04	CHESNUT DR	26	572.26	\$9,156.20	\$458.00	\$916.00	\$0.00	\$10,530.00
MAPLEWOOD DR-05	CHESNUT DR	26	2,831.46	\$45,303.40	\$2,265.00	\$4,530.00	\$0.00	\$52,099.00
Project Totals:			14,464.62	\$231,434.00	\$11,571.00	\$23,144.00	\$0.00	\$266,150.00
SEAVER ROAD 0.49 Miles								
SEAVER RD	TYLER RD	18	5,189.31	\$62,271.72	\$3,114.00	\$6,227.00	\$0.00	\$71,612.00
Project Totals:			5,189.31	\$62,271.72	\$3,114.00	\$6,227.00	\$0.00	\$71,612.00
SOUTH ROW ROAD 1.42 Miles								
SOUTH ROW RD-01	SOUTH HARBOR RD	21	4,702.38	\$56,428.61	\$2,821.00	\$5,643.00	\$0.00	\$64,893.00
SOUTH ROW RD-02	DRIVEWAY #155	21	6,603.11	\$79,237.33	\$3,962.00	\$7,924.00	\$0.00	\$91,123.00
SOUTH ROW RD-03	EMERY RD	21	3,578.16	\$42,937.95	\$2,147.00	\$4,294.00	\$0.00	\$49,379.00
SOUTH ROW RD-04	GILCHRIST RD	21	2,615.15	\$31,381.86	\$1,569.00	\$3,138.00	\$0.00	\$36,089.00
Project Totals:			17,498.81	\$209,985.75	\$10,499.00	\$20,999.00	\$0.00	\$241,484.00
Funding Total:				91,153.20	\$1,367,698.6	\$136,773.00	\$0.00	\$1,572,855.00

Pavement Management Fund

MADISON AVENUE 0.09 Miles								
MADISON AVE	WARREN RD	20	1,056.67	\$528.34	\$0.00	\$0.00	\$0.00	\$528.00
Project Totals:			1,056.67	\$528.34	\$0.00	\$0.00	\$0.00	\$528.00
PIERCE ROAD 0.90 Miles								
PIERCE RD-01	TURNER RD	18	1,902.95	\$951.48	\$0.00	\$0.00	\$0.00	\$951.00
PIERCE RD-02	DRIVEWAY #64	18	5,728.65	\$2,864.33	\$0.00	\$0.00	\$0.00	\$2,864.00
PIERCE RD-03	WARREN RD	18	1,849.55	\$924.78	\$0.00	\$0.00	\$0.00	\$925.00
Project Totals:			9,481.16	\$4,740.58	\$0.00	\$0.00	\$0.00	\$4,740.00
TURNER ROAD 1.41 Miles								
TURNER RD-01	WARREN RD	17	6,904.12	\$3,452.06	\$0.00	\$0.00	\$0.00	\$3,452.00
TURNER RD-02	DRIVEWAY #79	17	3,119.33	\$1,559.67	\$0.00	\$0.00	\$0.00	\$1,560.00
TURNER RD-03	PIERCE RD	17	4,082.48	\$2,041.24	\$0.00	\$0.00	\$0.00	\$2,041.00
Project Totals:			14,105.93	\$7,052.97	\$0.00	\$0.00	\$0.00	\$7,053.00
WARREN ROAD 2.67 Miles								
WARREN RD-01	SOUTH HARBOR RD	26	2,939.41	\$1,469.71	\$0.00	\$0.00	\$0.00	\$1,470.00
WARREN RD-02	BEECH ST	26	7,881.82	\$3,940.91	\$0.00	\$0.00	\$0.00	\$3,941.00
WARREN RD-03	DRIVEWAY #44	26	1,155.12	\$577.56	\$0.00	\$0.00	\$0.00	\$578.00
WARREN RD-04	SHIRLEY RD	26	697.16	\$348.58	\$0.00	\$0.00	\$0.00	\$349.00
WARREN RD-05	VIRGO LN	26	1,838.45	\$919.23	\$0.00	\$0.00	\$0.00	\$919.00
WARREN RD-06	SAGITARIUS LN	26	1,722.52	\$861.26	\$0.00	\$0.00	\$0.00	\$861.00
WARREN RD-07	TURNER RD	26	1,508.59	\$754.30	\$0.00	\$0.00	\$0.00	\$754.00
WARREN RD-08	DRIVEWAY #99	26	7,195.16	\$3,597.58	\$0.00	\$0.00	\$0.00	\$3,598.00

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		Repair Type	Width	Square Yards	Repair	Police	Contingency	Supplemental	Total
WARREN RD-09	MADISON AVE	PIERCE RD	26	3,532.45	\$1,766.22	\$0.00	\$0.00	\$0.00	\$1,766.00
WARREN RD-10	PIERCE RD	KOSKI WAY	26	3,908.47	\$1,954.24	\$0.00	\$0.00	\$0.00	\$1,954.00
WARREN RD-11	KOSKI WY	LUNENBURG TL	26	8,352.25	\$4,176.12	\$0.00	\$0.00	\$0.00	\$4,176.00
		Project Totals:	40,731.40	\$20,365.70	\$0.00	\$0.00	\$0.00	\$0.00	\$20,366.00
DOGWOOD DRIVE 0.29 Miles									
DOGWOOD DR-01	EMERY RD	WILLOW DR	24	2,092.71	\$50,224.95	\$2,511.00	\$5,022.00	\$0.00	\$57,759.00
DOGWOOD DR-02	WILLOW DR	SUMAC DR	24	1,384.28	\$33,222.80	\$1,661.00	\$3,322.00	\$0.00	\$38,206.00
DOGWOOD DR-03	SUMAC DR	CUL DE SAC	24	571.67	\$13,720.12	\$686.00	\$1,372.00	\$0.00	\$15,778.00
		Project Totals:	4,048.66	\$97,167.86	\$4,858.00	\$9,716.00	\$0.00	\$0.00	\$111,743.00
SHAGBARK DRIVE 0.17 Miles									
SHAGBARK DR-01	EMERY RD	WILLOW DR	24	1,215.94	\$29,182.62	\$1,459.00	\$2,918.00	\$0.00	\$33,560.00
SHAGBARK DR-02	WILLOW DR	SUMAC DR	24	651.70	\$15,640.84	\$782.00	\$1,564.00	\$0.00	\$17,987.00
SHAGBARK DR-03	SUMAC DR	CUL DE SAC	24	576.71	\$13,841.12	\$692.00	\$1,384.00	\$0.00	\$15,917.00
		Project Totals:	2,444.36	\$58,664.58	\$2,933.00	\$5,866.00	\$0.00	\$0.00	\$67,464.00
SUMAC DRIVE 0.29 Miles									
SUMAC DR	DOGWOOD DR	SHAGBARK DR	24	4,033.81	\$96,811.55	\$4,841.00	\$9,681.00	\$0.00	\$111,333.00
		Project Totals:	4,033.81	\$96,811.55	\$4,841.00	\$9,681.00	\$0.00	\$0.00	\$111,333.00
WILLOW DRIVE 0.29 Miles									
WILLOW DR	DOGWOOD DR	SHAGBARK DR	24	4,138.86	\$99,332.60	\$4,967.00	\$9,933.00	\$0.00	\$114,232.00
		Project Totals:	4,138.86	\$99,332.60	\$4,967.00	\$9,933.00	\$0.00	\$0.00	\$114,232.00
DUDLEY ROAD 0.98 Miles									
DUDLEY RD-04	BARKER HILL RD	SURFACE TREATMENT	24	5,011.93	\$42,601.41	\$2,130.00	\$4,260.00	\$0.00	\$48,992.00
DUDLEY RD-05	BURGESS RD	PAVEMENT CHANGE	24	8,748.30	\$74,360.53	\$3,718.00	\$7,436.00	\$0.00	\$85,515.00
		Project Totals:	13,760.23	\$116,961.94	\$5,848.00	\$11,696.00	\$0.00	\$0.00	\$134,507.00
FESSENDEN HILL ROAD 1.66 Miles									
FESSENDEN HILL RD-01	BROOKLINE RD	PAVEMENT CHANGE	14	1,388.95	\$11,806.08	\$590.00	\$1,181.00	\$0.00	\$13,577.00
FESSENDEN HILL RD-02	PAVEMENT CHANGE	DEAD END	14	12,253.61	\$104,155.72	\$5,208.00	\$10,416.00	\$0.00	\$119,779.00
		Project Totals:	13,642.57	\$115,961.80	\$5,798.00	\$11,597.00	\$0.00	\$0.00	\$133,356.00
		Funding Total:	107,443.65	\$617,587.93	\$29,245.00	\$58,489.00	\$0.00	\$0.00	\$705,322.00
		Year Total:	198,596.85	\$1,985,286.5	\$97,630.00	\$195,262.00	\$0.00	\$0.00	\$2,278,177.00
2020									
Debt Exclusion									
BAYBERRY HILL ROAD 1.77 Miles									
BAYBERRY HILL RD-01	FITCHBURG RD	MILL and Overlay	25	5,352.35	\$85,637.65	\$4,282.00	\$8,564.00	\$0.00	\$98,483.00

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	Repair Type	Width	Square Yards	Repair	Police	Contingency	Supplemental	Total
BAYBERRY HILL RD-02	CLEMENT RD	LUNENBURG RD	25	19,413.75	\$310,620.03	\$15,531.00	\$0.00	\$357,213.00
BAYBERRY HILL RD-03	LUNENBURG RD	DEAD END	15	673.36	\$10,773.80	\$539.00	\$0.00	\$12,390.00
Project Totals:			25,439.47	\$407,031.48	\$20,352.00	\$40,703.00	\$0.00	\$468,086.00

CLEMENT ROAD 1.09 Miles

CLEMENT RD-01	BAYBERRY HILL RD	BAILEY RD	20	6,067.93	\$97,086.89	\$4,854.00	\$0.00	\$111,650.00
CLEMENT RD-02	BAILEY RD	FITCHBURG RD	20	6,740.71	\$107,851.36	\$5,393.00	\$0.00	\$124,029.00
Project Totals:			12,808.64	\$204,938.25	\$10,247.00	\$20,494.00	\$0.00	\$235,679.00

NEW FITCHBURG ROAD 2.87 Miles

NEW FITCHBURG RD-01	MAIN ST	LINDEN ST	29	1,969.66	\$31,514.51	\$1,576.00	\$0.00	\$36,242.00
NEW FITCHBURG RD-02	LINDEN ST	JONATHAN LN	29	8,808.22	\$140,931.53	\$7,047.00	\$0.00	\$162,071.00
NEW FITCHBURG RD-03	JONATHAN LN	WYMAN RD	29	5,730.06	\$91,680.89	\$4,584.00	\$0.00	\$105,433.00
NEW FITCHBURG RD-04	WYMAN RD	VINTON POND RD	29	8,578.66	\$137,258.52	\$6,863.00	\$0.00	\$157,847.00
NEW FITCHBURG RD-05	VINTON POND RD	WARE RD	29	16,299.92	\$260,798.72	\$13,040.00	\$0.00	\$299,919.00
NEW FITCHBURG RD-06	WARE RD	LUNENBURG TL	29	7,360.90	\$117,774.42	\$5,889.00	\$0.00	\$135,441.00
Project Totals:			48,747.41	\$779,958.59	\$38,999.00	\$77,995.00	\$0.00	\$896,953.00

WOODLAND DRIVE 0.35 Miles

WOODLAND DR-01	FITCHBURG RD	KNOLLWOOD LN	24	2,183.70	\$34,939.13	\$1,747.00	\$0.00	\$40,180.00
WOODLAND DR-02	KNOLLWOOD LN	BLOOD RD	24	2,708.86	\$43,341.74	\$2,167.00	\$0.00	\$49,843.00
Project Totals:			4,892.55	\$78,280.87	\$3,914.00	\$7,828.00	\$0.00	\$90,023.00

WORCESTER ROAD 0.55 Miles

WORCESTER RD-01	MAIN ST	BLOOD ST	25	6,654.46	\$106,471.29	\$5,324.00	\$0.00	\$122,442.00
WORCESTER RD-02	BLOOD ST	FITCHBURG RD	25	1,460.08	\$23,361.25	\$1,168.00	\$0.00	\$26,865.00
Project Totals:			8,114.53	\$129,832.54	\$6,492.00	\$12,983.00	\$0.00	\$149,307.00

OLD CITY ROAD 0.89 Miles

OLD CITY RD-01	FITCHBURG RD	LAUREL WOODS DR	19	2,595.27	\$31,143.23	\$1,557.00	\$0.00	\$35,815.00
OLD CITY RD-02	LAUREL WOODS DR	LUNENBURG RD	19	7,317.23	\$87,806.71	\$4,390.00	\$0.00	\$100,978.00
Project Totals:			9,912.50	\$118,949.94	\$5,947.00	\$11,895.00	\$0.00	\$136,793.00

WYMAN ROAD 0.24 Miles

WYMAN RD	NEW FITCHBURG RD	LUNENBURG RD	20	2,762.69	\$33,152.24	\$1,658.00	\$0.00	\$38,125.00
Project Totals:			2,762.69	\$33,152.24	\$1,658.00	\$3,315.00	\$0.00	\$38,125.00

Funding Total:	112,677.79	\$1,752,143.9	\$87,609.00	\$175,213.00	\$0.00	\$2,014,966.00
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Pavement Management Fund

BROOKLINE ROAD 2.64 Miles

BROOKLINE RD-01	CROSS ST	DUDLEY RD	30	3,955.73	\$1,977.87	\$0.00	\$0.00	\$1,978.00
BROOKLINE RD-02	DUDLEY RD	FESSEND HILL RD	30	7,507.81	\$3,753.90	\$0.00	\$0.00	\$3,754.00

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	Repair Type	Width	Square Yards	Repair	Police	Contingency	Supplemental	Total
BROOKLINE RD-03	FESSEND HILL RD	NORTH END RD	30	16,587.08	\$8,293.54	\$0.00	\$0.00	\$8,294.00
BROOKLINE RD-04	NORTH END RD	DRIVEWAY #166	30	9,960.10	\$4,980.05	\$0.00	\$0.00	\$4,980.00
BROOKLINE RD-05	DRIVEWAY #166	NEW HAMPSHIRE SL	30	8,464.93	\$4,232.47	\$0.00	\$0.00	\$4,232.00
		Project Totals:	46,475.65	\$23,237.82	\$0.00	\$0.00	\$0.00	\$23,238.00
DIX ROAD 0.10 Miles								
DIX RD	ADAMS RD	MEADOW RD	18	1,024.39	\$512.19	\$0.00	\$0.00	\$512.00
		Project Totals:	1,024.39	\$512.19	\$0.00	\$0.00	\$0.00	\$512.00
MEADOW ROAD 1.41 Miles								
MEADOW RD-01	TOWNSEND HILL RD	ADAMS RD	19	6,490.00	\$3,245.00	\$0.00	\$0.00	\$3,245.00
MEADOW RD-02	ADAMS RD	DIX RD	19	1,516.15	\$758.07	\$0.00	\$0.00	\$758.00
MEADOW RD-03	DIX RD	BROOKLINE RD	19	7,710.68	\$3,855.34	\$0.00	\$0.00	\$3,855.00
		Project Totals:	15,716.83	\$7,858.42	\$0.00	\$0.00	\$0.00	\$7,858.00
APPLE DRIVE 0.30 Miles								
APPLE DR-01	CHERRY DR	PEACH LN	26	1,532.70	\$36,784.92	\$1,839.00	\$0.00	\$42,303.00
APPLE DR-02	PEACH LN	LAUREL LN	26	1,722.40	\$41,337.61	\$2,067.00	\$0.00	\$47,538.00
APPLE DR-03	LAUREL LN	TAMARACK LN	26	1,260.19	\$30,244.45	\$1,512.00	\$0.00	\$34,781.00
		Project Totals:	4,515.29	\$108,366.98	\$5,418.00	\$10,836.00	\$0.00	\$124,622.00
LAUREL LANE 0.09 Miles								
LAUREL LN	APPLE DR	CUL DE SAC	26	1,352.81	\$32,467.41	\$1,623.00	\$0.00	\$37,338.00
		Project Totals:	1,352.81	\$32,467.41	\$1,623.00	\$3,247.00	\$0.00	\$37,338.00
PEACH LANE 0.07 Miles								
PEACH LN	APPLE DR	CUL DE SAC	26	1,140.87	\$27,380.89	\$1,369.00	\$0.00	\$31,488.00
		Project Totals:	1,140.87	\$27,380.89	\$1,369.00	\$2,738.00	\$0.00	\$31,488.00
TAMARACK LANE 0.18 Miles								
TAMARACK LN-01	EMERY RD	APPLE DR	26	1,314.14	\$31,539.30	\$1,577.00	\$0.00	\$36,270.00
TAMARACK LN-02	APPLE DR	CUL DE SAC	26	1,373.66	\$32,967.88	\$1,648.00	\$0.00	\$37,913.00
		Project Totals:	2,687.80	\$64,507.18	\$3,225.00	\$6,451.00	\$0.00	\$74,183.00
ELM STREET 0.47 Miles								
ELM ST-01	WORCESTER RD	ELM CIR	32	956.20	\$8,127.70	\$406.00	\$0.00	\$9,347.00
ELM ST-02	ELM CIR	BRIDGE	32	2,141.90	\$18,206.18	\$910.00	\$0.00	\$20,937.00
ELM ST-03	BRIDGE	DEPOT ST	32	2,593.59	\$22,045.53	\$1,102.00	\$0.00	\$25,352.00
ELM ST-04	DEPOT ST	RAILROAD ST	32	1,472.13	\$12,513.13	\$626.00	\$0.00	\$14,390.00
ELM ST-05	RAILROAD ST	MAIN ST	32	1,734.72	\$14,745.16	\$737.00	\$0.00	\$16,957.00
		Project Totals:	8,898.55	\$75,637.70	\$3,781.00	\$7,565.00	\$0.00	\$86,983.00
ELM STREET WEST 1.01 Miles								
ELM ST WEST-01	WYMAN RD	BLOOD RD	27	2,664.96	\$22,652.15	\$1,133.00	\$0.00	\$26,050.00

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	Repair Type	Width	Square Yards	Repair	Police	Contingency	Supplemental	Total	
ELM ST WEST-02	BLOOD RD	LINDEN ST	Surface Treatment	27	11,092.56	\$94,286.80	\$4,714.00	\$9,429.00	\$108,430.00
ELM ST WEST-03	LINDEN ST	MAIN ST	Surface Treatment	27	2,270.96	\$19,303.20	\$965.00	\$1,930.00	\$22,199.00
Project Totals:				16,028.49	\$136,242.14	\$6,812.00	\$13,624.00	\$0.00	\$156,679.00
LUNENBURG ROAD 1.97 Miles									
LUNENBURG RD-01	WYMAN RD	RYAN RD	Surface Treatment	27	3,380.14	\$28,731.16	\$1,437.00	\$2,873.00	\$33,041.00
LUNENBURG RD-02	RYAN RD	BAYBERRY HILL RD	Surface Treatment	27	3,336.09	\$28,356.78	\$1,418.00	\$2,836.00	\$32,610.00
LUNENBURG RD-03	BAYBERRY HILL RD	BAYBERRY LN	Surface Treatment	27	12,358.93	\$105,050.88	\$5,253.00	\$10,505.00	\$120,809.00
LUNENBURG RD-04	BAYBERRY LN	OLD CITY RD	Surface Treatment	27	9,842.80	\$83,663.83	\$4,183.00	\$8,366.00	\$96,213.00
LUNENBURG RD-05	OLD CITY RD	LUNENBURG TL	Surface Treatment	27	2,240.13	\$19,041.06	\$952.00	\$1,904.00	\$21,897.00
Project Totals:				31,158.08	\$264,843.71	\$13,243.00	\$26,484.00	\$0.00	\$304,570.00
Funding Total:				128,998.76	\$741,054.44	\$35,471.00	\$70,945.00	\$0.00	\$847,471.00
Year Total:				241,676.55	\$2,493,198.3	\$123,080.00	\$246,158.00	\$0.00	\$2,862,437.00

2021

Debt Exclusion

CANAL STREET										0.17 Miles	
CANAL ST	MAIN ST	DUDLEY RD	Mill and Overlay	28	2,796.97	\$44,751.52	\$2,238.00	\$4,475.00	\$0.00	\$51,464.00	
Project Totals:					2,796.97	\$44,751.52	\$2,238.00	\$4,475.00	\$0.00	\$51,464.00	

GREENVILLE ROAD										1.46 Miles	
GREENVILLE RD-01	MASON RD	DRIVEWAY #60	Mill and Overlay	28	10,034.62	\$160,553.96	\$8,028.00	\$16,055.00	\$0.00	\$184,637.00	
GREENVILLE RD-02	DRIVEWAY #60	PAVEMENT CHANGE	Mill and Overlay	28	10,881.98	\$174,111.68	\$8,706.00	\$17,411.00	\$0.00	\$200,228.00	
GREENVILLE RD-03	PAVEMENT CHANGE	NEW HAMPSHIRE SL	Mill and Overlay	28	3,083.92	\$49,342.68	\$2,467.00	\$4,934.00	\$0.00	\$56,744.00	
Project Totals:				24,000.52	\$384,008.33	\$19,201.00	\$38,400.00	\$0.00	\$441,609.00		

MASON ROAD		1.79 Miles								
MASON RD-04	HORSESHOE DR	OLD TURNPIKE RD	Mill and Overlay	25	10,283.74	\$164,539.77	\$8,227.00	\$16,454.00	\$0.00	\$189,221.00
MASON RD-05	OLD TURNPIKE RD	DRIVEWAY #196	Mill and Overlay	25	6,604.28	\$105,668.53	\$5,283.00	\$10,567.00	\$0.00	\$121,519.00
MASON RD-06	DRIVEWAY #196	BROOKS CROSSING	Mill and Overlay	25	4,447.44	\$71,159.09	\$3,558.00	\$7,116.00	\$0.00	\$81,833.00
MASON RD-07	BROOKS CROSSING	NEW HAMPSHIRE SL	Mill and Overlay	25	4,945.72	\$79,131.59	\$3,957.00	\$7,913.00	\$0.00	\$91,001.00
Project Totals:				26,281.19	\$420,498.99	\$21,025.00	\$42,050.00	\$0.00	\$483,574.00	

TURNPIKE ROAD 1.53 Miles									
TURNPIKE RD-01	MAIN ST	WHITCOMB ST	Mill and Overlay	30	2,967.17	\$47,474.71	\$2,374.00	\$4,747.00	\$54,596.00
TURNPIKE RD-02	WHITCOMB ST	TURNPIKE TER	Mill and Overlay	30	1,070.82	\$17,133.05	\$857.00	\$1,713.00	\$19,703.00
TURNPIKE RD-03	TURNPIKE TER	EAST MAN TER	Mill and Overlay	30	2,246.51	\$35,944.12	\$1,797.00	\$3,594.00	\$41,336.00
TURNPIKE RD-04	EASTMAN ST	PAVEMENT CHANGE	Mill and Overlay	30	3,393.38	\$54,294.02	\$2,715.00	\$5,429.00	\$62,438.00
TURNPIKE RD-05	PAVEMENT CHANGE	BARKER HILL RD	Mill and Overlay	30	8,551.71	\$136,827.37	\$6,841.00	\$13,683.00	\$157,351.00
TURNPIKE RD-06	BARKER HILL RD	DUDLEY RD	Mill and Overlay	30	8,677.33	\$138,837.35	\$6,942.00	\$13,884.00	\$159,663.00

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Repair Type		Width	Square Yards	Repair	Police	Contingency	Supplemental	Total		
Project Totals:		26,906.91		\$430,510.61	\$21,526.00	\$43,050.00	\$0.00	\$495,087.00		
CROSS STREET 0.23 Miles										
CROSS ST-01	BROOKLINE ST	KIMPLEN CT	Shim and Overlay	22	1,635.88	\$19,630.55	\$982.00	\$1,963.00	\$0.00	\$22,575.00
CROSS ST-02	KIMPLEN CT	SMITH ST	Shim and Overlay	22	1,348.36	\$16,180.34	\$809.00	\$1,618.00	\$0.00	\$18,607.00
Project Totals:		2,984.24		\$35,810.89	\$1,791.00	\$3,581.00	\$0.00	\$41,182.00		
SMITH STREET 0.36 Miles										
SMITH ST-01	BROOKLINE ST	CROSS ST	Shim and Overlay	22	2,498.55	\$29,982.59	\$1,499.00	\$2,998.00	\$0.00	\$34,480.00
SMITH ST-02	CROSS ST	HIGHLAND ST	Shim and Overlay	22	2,114.67	\$25,375.98	\$1,269.00	\$2,538.00	\$0.00	\$29,182.00
Project Totals:		4,613.21		\$55,358.58	\$2,768.00	\$5,536.00	\$0.00	\$63,662.00		
Funding Total:		87,583.05		\$1,370,938.9	\$68,549.00	\$137,092.00	\$0.00	\$1,576,578.00		
Pavement Management Fund										
DUDLEY ROAD 0.88 Miles										
DUDLEY RD-01	MASON RD	DRIVEWAY #241	Crack Seal	24	3,284.87	\$1,642.43	\$0.00	\$0.00	\$0.00	\$1,642.00
DUDLEY RD-02	DRIVEWAY #241	OLD TURNPIKE RD	Crack Seal	24	3,205.17	\$1,602.59	\$0.00	\$0.00	\$0.00	\$1,603.00
DUDLEY RD-03	OLD TURNPIKE RD	BARKER HILL RD	Crack Seal	24	5,913.83	\$2,956.92	\$0.00	\$0.00	\$0.00	\$2,957.00
Project Totals:		12,403.87		\$6,201.94	\$0.00	\$0.00	\$0.00	\$6,202.00		
HAYNES ROAD 1.81 Miles										
HAYNES RD-01	WALLACE HILL RD	HOG HILL RD	Crack Seal	20	6,807.36	\$3,403.68	\$0.00	\$0.00	\$0.00	\$3,404.00
HAYNES RD-02	HOG HILL RD	WEST ST	Crack Seal	20	7,166.15	\$3,583.08	\$0.00	\$0.00	\$0.00	\$3,583.00
HAYNES RD-03	WEST ST	GRANITE RD	Crack Seal	20	1,510.28	\$755.14	\$0.00	\$0.00	\$0.00	\$755.00
HAYNES RD-04	GRANITE RD	PEPPERELL TL	Crack Seal	20	5,714.40	\$2,857.20	\$0.00	\$0.00	\$0.00	\$2,857.00
Project Totals:		21,198.20		\$10,599.10	\$0.00	\$0.00	\$0.00	\$10,599.00		
SPAULDING STREET 0.67 Miles										
SPAULDING ST-01	MAIN ST	RIPPLE RD	Crack Seal	22	3,323.23	\$1,661.62	\$0.00	\$0.00	\$0.00	\$1,662.00
SPAULDING ST-02	RIPPLE RD	FORDWAY RD	Crack Seal	22	1,112.77	\$556.38	\$0.00	\$0.00	\$0.00	\$556.00
SPAULDING ST-03	FORDWAY RD	WALLACE HILL RD	Crack Seal	22	4,187.93	\$2,093.96	\$0.00	\$0.00	\$0.00	\$2,094.00
Project Totals:		8,623.93		\$4,311.97	\$0.00	\$0.00	\$0.00	\$4,312.00		
WALLACE HILL ROAD 1.67 Miles										
WALLACE HILL RD-02	HAYNES RD	DRIVEWAY #145	Crack Seal	28	7,097.80	\$3,548.90	\$0.00	\$0.00	\$0.00	\$3,549.00
WALLACE HILL RD-03	DRIVEWAY #145	DRIVEWAY #153	Crack Seal	28	1,923.66	\$961.83	\$0.00	\$0.00	\$0.00	\$962.00
WALLACE HILL RD-04	DRIVEWAY #153	HIGHLAND ST	Crack Seal	28	5,269.01	\$2,634.51	\$0.00	\$0.00	\$0.00	\$2,635.00
WALLACE HILL RD-05	HIGHLAND ST	BROWN RD	Crack Seal	28	8,250.31	\$4,125.16	\$0.00	\$0.00	\$0.00	\$4,125.00
WALLACE HILL RD-06	BROWN RD	WARNER RD	Crack Seal	28	2,640.78	\$1,320.39	\$0.00	\$0.00	\$0.00	\$1,320.00
WALLACE HILL RD-07	WARNER RD	MEADOW RD	Crack Seal	28	2,219.46	\$1,109.73	\$0.00	\$0.00	\$0.00	\$1,110.00
Project Totals:		27,401.03		\$13,700.52	\$0.00	\$0.00	\$0.00	\$13,701.00		

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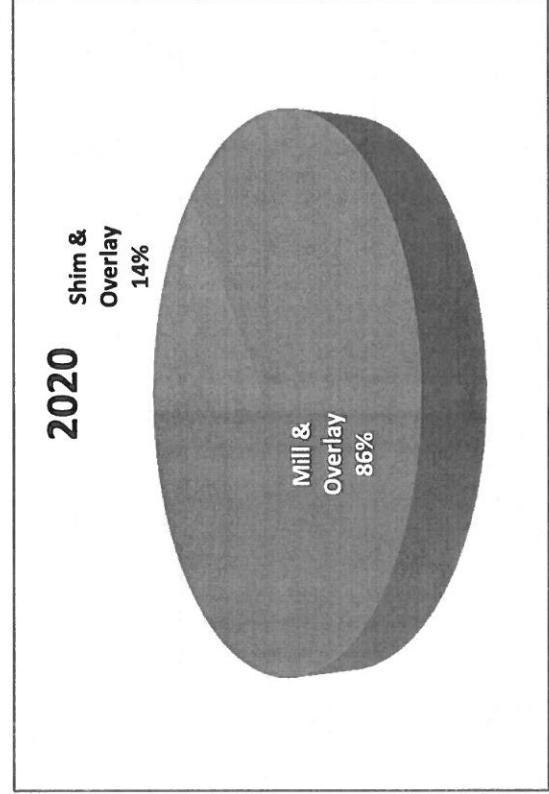
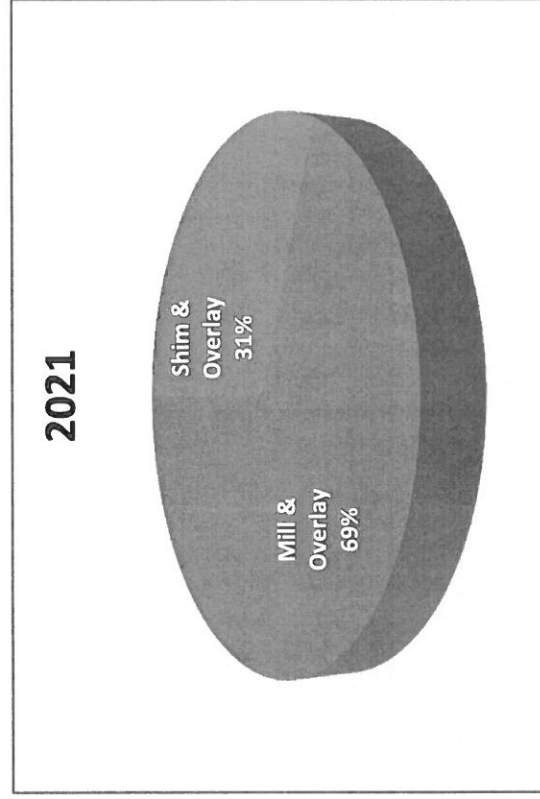
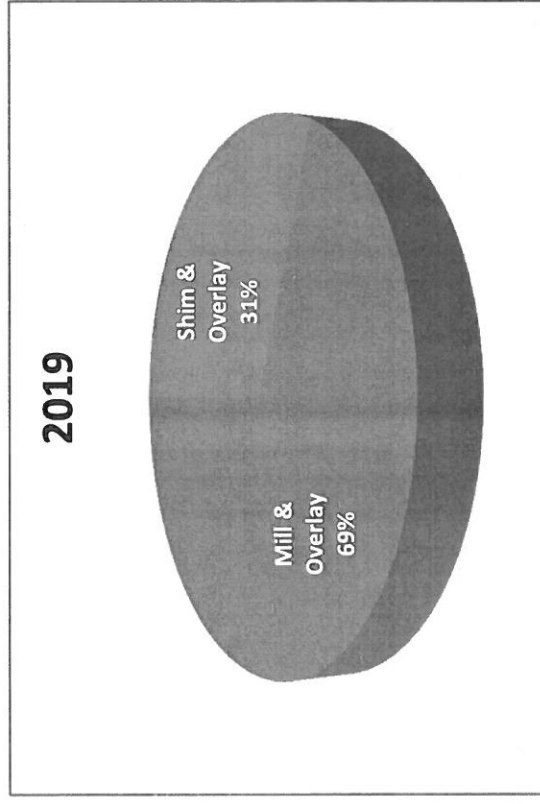
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EDWARD ROAD											0.63 Miles	
EDWARD RD-01	MAIN ST	EDWARD RD-02	Reclamation	23	3,250.22	\$78,005.39	\$3,900.00	\$7,801.00	\$0.00	\$89,706.00		
EDWARD RD-02	EDWARD RD-03	CUL DE SAC	Reclamation	23	600.28	\$14,406.75	\$720.00	\$1,441.00	\$0.00	\$16,568.00		
EDWARD RD-03	EDWARD RD-01	TODD DR	Reclamation	22	1,038.29	\$24,918.91	\$1,246.00	\$2,492.00	\$0.00	\$28,657.00		
EDWARD RD-04	TODD DR	TODD DR	Reclamation	23	3,543.26	\$85,038.24	\$4,252.00	\$8,504.00	\$0.00	\$97,794.00		
Project Totals:					8,432.05	\$202,369.29	\$10,118.00	\$20,238.00	\$0.00	\$232,725.00		
PROCTOR ROAD											0.83 Miles	
PROCTOR RD-01	SPAULDING ST	TODD DR	Reclamation	30	3,999.65	\$95,991.52	\$4,800.00	\$9,599.00	\$0.00	\$110,390.00		
PROCTOR RD-02	TODD DR	PEPPERELL TL	Reclamation	30	10,671.43	\$256,114.36	\$12,806.00	\$25,611.00	\$0.00	\$294,532.00		
Project Totals:					14,671.08	\$352,105.87	\$17,606.00	\$35,210.00	\$0.00	\$404,922.00		
TODD DRIVE											0.30 Miles	
TODD DR-01	EDWARD RD	EDWARD RD	Reclamation	25	3,125.42	\$75,010.01	\$3,751.00	\$7,501.00	\$0.00	\$86,262.00		
TODD DR-02	EDWARD RD	PROCTOR RD	Reclamation	25	1,310.64	\$31,455.38	\$1,573.00	\$3,146.00	\$0.00	\$36,174.00		
Project Totals:					4,436.06	\$106,465.39	\$5,324.00	\$10,647.00	\$0.00	\$122,436.00		
BARKER HILL ROAD											1.77 Miles	
BARKER HILL RD-02	DUDLEY RD	NEW HAMPSHIRE SL	Surface Treatment	18	18,718.80	\$159,109.81	\$7,955.00	\$15,911.00	\$0.00	\$182,976.00		
Project Totals:					18,718.80	\$159,109.81	\$7,955.00	\$15,911.00	\$0.00	\$182,976.00		
Funding Total:					115,885.03	\$854,863.89	\$41,003.00	\$82,006.00	\$0.00	\$977,873.00		
Year Total:					203,468.08	\$2,225,802.8	\$109,552.00	\$219,098.00	\$0.00	\$2,554,451.00		
Total:					643,741.48	\$6,704,287.7	\$330,262.00	\$660,518.00	\$0.00	\$7,695,065.00		

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Debt Exclusion Summary

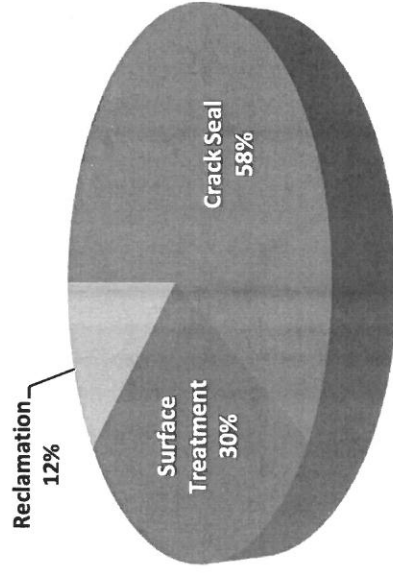
Repair Method Breakdown



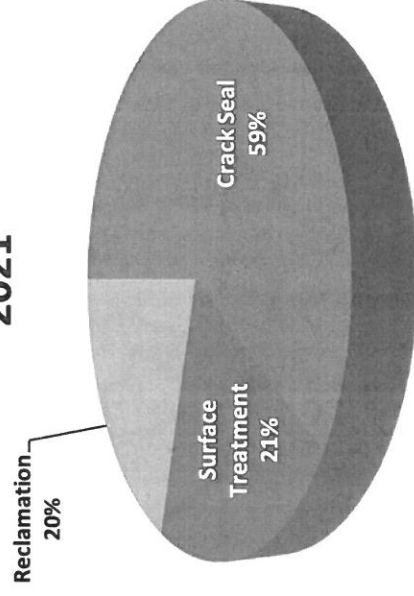
Pavement Management Fund Summary

Repair Method Breakdown

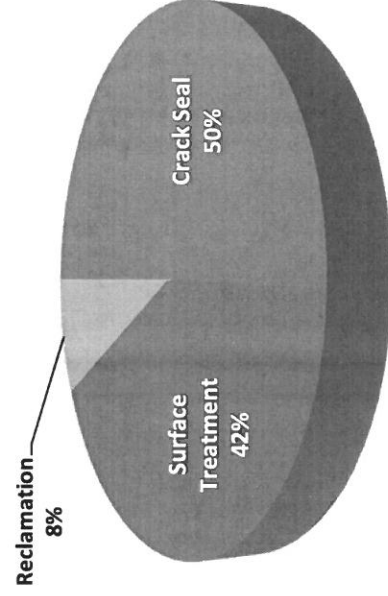
2019

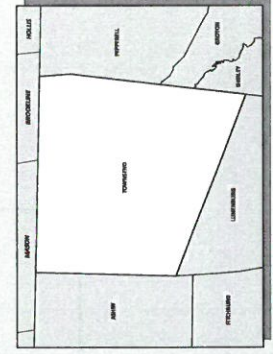
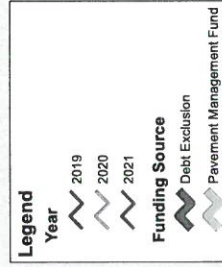


2021



2020





Issue Date: April 1, 2019
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Town of Townsend, Massachusetts

Proposed 2019-2021 Capital Improvement Plan

Debt Exclusion Fund

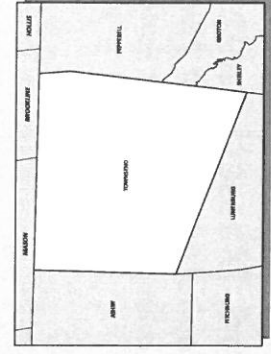


Legend

Repair Method

Shim & Overlay

Mill & Overlay



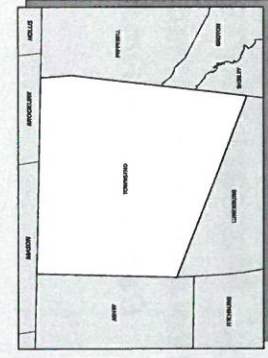
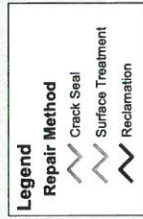
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Issue Date: April 3, 2019

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SBETA

0 0.25 0.5 Miles



Issue Date: April 3, 2019
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