

**TOWN OF PLYMOUTH CAPITAL IMPROVEMENT PLAN REQUEST
FY26 SPRING ANNUAL TOWN MEETING**

Department: Department of Public Works	Priority #:	1
Project Title and Description: Roadway Improvement Program & Preservation	Total Project Cost:	\$5,000,000.00

Department/Division Head: James Downey, Assistant Director of Public Works

Check if project is: New ☒ Resubmitted ☐ **Cost estimate was developed:** Internally ☒ Externally ☐

For project re-submittals, list prior year(s):

List any funding sources and amounts already granted: _____

Basis of Estimated Costs (attach additional information if available)			If project has impact on 5 Year Plan and future operating budgets, insert estimated amounts.		
Capital:	Cost	Comments	Fiscal Year:	Capital	Operations & Maintenance
<i>Planning and Design</i>			FY27		
<i>Labor and Materials</i>	\$5,000,000.00		FY28		
<i>Administration</i>			FY29		
<i>Land Acquisition</i>			FY30		
<i>Equipment</i>			FY31		
<i>Other</i>					
<i>Contingency</i>					
Total Capital					

Project Justification and Objective: As part of the Town's annual roadway improvement program, these funds will be used to improve and preserve roads identified in the pavement management program prepared by BETA Engineering.

For Capital Project Requests:

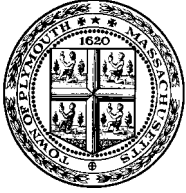
Will this project be phased over more than one fiscal year? If yes, enter it on the 5 Year Plan Yes ☐ No ☒
Can this project be phased over more than one fiscal year? Yes ☐ No ☒

For Capital Equipment Requests:

☐ Check if equipment requested is replacement and enter the year, make & model, VIN and present condition of existing equipment

What is the expected lifespan of this new/replacement equipment: _____

Attach backup information, estimates, or justification to support this request.



TOWN OF PLYMOUTH

Department of Public Works
159 Camelot Drive
Plymouth, Massachusetts 02360

MEMO

Date: October 1, 2024

To: Lynne Barret, Finance Director

From: James Downey, Assistant Director of Public Works

CC: Derek Brindisi, Town Manager
Silvio Genao, Assistant Town Manager
William Coyle, Director of Public Works

Roadway Improvement Program and Preservation

As part of the Town's Annual Roadway Improvement Program, we are requesting these funds to improve and preserve roads identified in the Pavement Management Program prepared by Beta Engineering.

We currently have over 300 miles of accepted and unaccepted roadways totaling an estimated \$133,790,221.60 in backlog with an overall RSR of 67.91 as of 02-08-2024.

James Downey
Assistant Director of Public Works
Plymouth MA. 02360
508-830-4162 ex. 12102

Town of Plymouth, Massachusetts



Pavement Management Program

Date: February 8, 2024

Date of Inspections: Winter 2022 - 2023

Plymouth, MA

Roadway Status Summary

Roadway Type		Length (Miles)
Town Classification: Accepted		
BC		229.01
GR		14.31
Total:		243.32
Town Classification: Unaccepted		
BC		73.72
GR		60.08
Total:		133.80
Town Classification: State		
BC		102.38
GR		47.16
UNK		1.13
Total:		150.67
Town Classification: Exclusion		
BC		71.16
GR		62.49
Total:		133.65
Total:		661.45

FY 2024 Chapter 90 Accepted Road Miles - 237.14

*State Grouping includes roads classified as State Forest

**Exclusion Grouping only includes roads classified as Private

Plymouth, MA

Roadway Repair Categories and Banding

Repair Method	Banding Low Range	Banding High Range	Unit Cost Sq.Yrd.
Major Rehabilitation			
Major Rehabilitation	0	50	\$100.00
Reconstruction			\$120.00
Reclamation			\$80.00
Minor Rehabilitation			
Minor Rehabilitation	50	70	\$25.00
Cold-In-Place Recycling - 3" HMA			\$25.00
Cold-In-Place Recycling - 3" HMA (No Structures)			\$22.00
Mill and Overlay - 2"			\$20.00
Hot-In-Place Recycling - 1" Top			\$20.00
Level and Overlay - 2.5"			\$20.00
Mill and Overlay - 1.5"			\$18.00
Preventative Maintenance			
Pavement Preservation	70	80	\$15.00
Nova Chip			\$15.00
Microsurface - Double (w/Fiber)			\$15.00
Cape Seal			\$12.00
Double Chip Seal			\$10.00
Rubber Asphalt Chip (20%)			\$10.00
Microsurface - Single Lift			\$8.00
Routine Maintenance			
Routine Maintenance	80	90	\$1.00
Fog Seal			\$1.80
Crack Seal			\$0.60
Defer Maintenance			
No Maintenance Required	90	100	\$0.00

Plymouth, MA

Estimated Roadway Improvement Costs - Overall

Repair Method	Length (Miles)	Square Yards	Percent Repair	Estimated Cost
Major Rehabilitation	56.70	820,459.35	18.67%	\$82,045,935.22
Minor Rehabilitation	104.22	1,597,896.94	34.32%	\$39,947,423.41
Pavement Preservation	45.75	734,723.99	15.07%	\$11,020,859.85
Routine Maintenance	46.22	776,003.12	15.22%	\$776,003.12
No Maintenance Required	50.76	794,193.42	16.72%	\$0.00

Total:

303.66

4,723,276.82

100.00%

\$133,790,221.60

Average RSR By Segment:

67.91

*RSR - Road Surface Rating (0-100)

Please Note: Unit pricing accounts for curb to curb improvements only; Does not include any drainage, sidewalk, ADA, gravel subbase or utility improvements.