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DEPARTMENT OF INFRASTRUCTURE ENGINEERING

MEMORANDUM

TO: James Kern, Town Manager
Board of Selectmen

FROM: Jason L. Mammone, P.E., Director of Engineering
Joseph M. Flanagan, Director of Public Works

DATE: June 8, 2017

SUBJECT: Recommended Pavement Improvements for FY2018-FY2020

As part of the annual pavement management program, please find an analysis of the costs associated with the FY2017 Pavement Management road improvements which are currently being undertaken this contract year along with the recommended FY2018-FY2020 pavement improvements for review and consideration.

The FY2017 Recommended Pavement Improvements were presented to the Board and approved on March 28, 2016 as part of the continuing three year FY2017-FY2019 Recommended Pavement Management Improvements. A summary of the work as originally proposed and approved can be found in Table 1.

Table 1 – FY2017 Approved Road Improvements

Repair Type	Length in Feet	Cost
Reclamation	19,558	\$1,943,186.73
Mill and Overlay	0	\$0
Overlay	0	\$0
Preventative Maintenance	0	\$0
Routine Maintenance	10,749	\$26,640.89
Totals	65,430	\$1,969,827.62

Construction of the planned improvements began in April of 2016. Those roadways that were not completed by the end of 2016 were incorporated into the FY2018 improvements. The routine maintenance work was completed by Crack-Sealing, Inc. and the reclamation work was completed by Lorusso Corporation under the FY2016 Paving Contract.

We completed approximately 70 percent of the FY2016 roadwork during the first half of the contract year and will finish the remainder of the roadwork before the end of 2017. There is approximately \$590,000 worth of roadwork remaining for FY2017. These roads are to be rehabilitated by reclamation.

A summary of the completed work to date can be found below in Table 2.

Table 2 – FY2016 Completed Improvements To Date

Repair Type	Length in Feet	Cost
Reclamation	13,217	\$1,663,380
Mill and Overlay	0	\$0
Overlay	0	\$0
Preventative Maintenance	0	\$0
Routine Maintenance	12,576	\$21,576
Totals	25,793	\$1,684,956

A summary of the estimated versus actual unit costs for FY2017 to date is shown below in Table 3.

Table 3 – FY2016 Units Costs To Date (Estimated vs. Actual)

Repair Type	Estimated Unit Cost (per SY)	Actual Unit Cost (per SY)
Reclamation (Major Collector)	\$40.00	-
Reclamation (Minor Collector & Residential)	\$35.00	\$29.20
Mill and Overlay	\$20.00	-
Overlay	\$15.00	-
Preventative Maintenance	\$12.00	-
Routine Maintenance	\$0.75	\$0.52

Based upon our favorable contract prices and oversight of the contract with in-house personnel, the Town was also able to complete the wholesale sidewalk replacement for a majority of the roads that have been reclaimed to date in FY2017. In total, the Town replaced approximately 27,250 linear feet of asphalt sidewalk.

The Town is now entering into our eleventh year of Pavement Management and as a continuation of last year's FY2017-FY2019 Pavement Management Plan we have prepared new recommendations for FY2020.

As of December 31, 2016 our overall roadway network pavement condition index (PCI) was 86 which is up significantly from our initial PCI of 70 from ten years ago. If the proposed improvements are approved and implemented we can anticipate maintaining the roadway PCI at 86 by the end of FY2020.

The funding scenario for the recommended FY2018 – FY2020 pavement improvements is based on the assumption of a local funding level of \$1.5 million and utilizing approximately \$650,000 from State Chapter 90 funds for year 1 and a local funding level of \$900,000 and utilizing approximately \$650,000 from State Chapter 90 funds for years 2 & 3. As always, if the Town receives more than the assumed State Chapter 90 funding, we will utilize that money during the current construction season to rehabilitate roads indentified in the following year's program. As of 12/31/16, the Town's current backlog of repairs is \$9,459,074.

The recommended improvements proposed in this document are associated with asphalt pavement only. Sidewalks, curbing, drainage, and other geometric changes are not included in this proposal, however if during the design process these improvements are found to be necessary or desirable we will work to incorporate those items within the available budget(s).

In summary, the DPW and Engineering Departments are pleased to report that we are on target to successfully complete the FY2017 Pavement Management Plan approved last year within the available budget. Through the diligent efforts of both departments we believe we are able to deliver these improvements in an efficient and cost effective manner. All oversight of the design, bidding, contract administration, field engineering, and inspection was performed using in-house resources. Through these efforts we have been able to raise the Town's PCI to 86 from the initial rating of 70 ten years ago.

The proposed work throughout Town over the course of FY2018-FY2020 is summarized in the attached table and maps. Please review the attached information and provide us with any questions or comments.

Cc: Nancy A. Baker, Assistant Town Administrator
Nathan S. Buttermore, P.E., Infrastructure Engineer
Ronald I. Lawrence, Project Engineer

Town of Dedham - Pavement Management Road Program

Name	From	To	PCI	Length (ft)	Area (sy)	Cost	
7/1/2017							
Repair Type: Mill/Overlay							
MARLBORO STREET	LINDALE AVENUE	MASSACHUSETTS AVENUE (63	234	677	\$14,910.91	
				Repair Type Sum	234	677	\$14,910.91
Repair Type: Reclamation Minor Collector and Local							
ALTOONA ROAD	SHERMAN RD	TRENTON RD	56	1,091	3,152	\$121,516.34	
ARDMORE ROAD	SHERMAN RD	TRENTON RD	51	858	2,289	\$88,236.27	
BEACON STREET	BRIDGE STREET	COMMONWEALTH AVENUE	52	815	2,173	\$83,774.59	
BELOIT ROAD	SHERMAN RD	TRENTON RD	58	594	1,716	\$66,142.93	
BLUEBERRY HILL	LEDGEWOOD RD	CUL DE SAC	47	564	1,734	\$60,674.60	
BONAD ROAD	LOWER EAST ST	DEAD END	52	469	1,303	\$45,772.30	
CASS AVENUE	206' E OF HAVELNUT PL	WALNUT ST	63	610	1,695	\$59,330.95	
COLBURN STREET	HYDE PARK ST	100' E OF BUSSEY ST	48	1,566	5,918	\$228,127.89	
COMMONWEALTH AVENUE	100' S OF RIVERVIEW STREE	BRIDGE STREET	52	1,329	3,692	\$129,218.06	
COMMONWEALTH AVENUE	145' S OF MARLBORO STRE	100' S OF RIVERVIEW ST	54	180	520	\$20,035.92	
COMMONWEALTH AVENUE	MARLBORO STREET	145' S OF MARLBORO STREE	62	145	387	\$13,533.33	
CRANE STREET	ETNA RD	DEAD END	51	1,045	2,903	\$101,596.66	
CRANE STREET	TURNER ST	SAVIN ST	50	693	1,926	\$74,243.42	
CYNTHIA ROAD	CUL DE SAC LOOP (N)	CUL DE SAC LOOP (S)	49	1,153	3,332	\$116,621.56	
FAIRFIELD STREET	BRIDGE STREET	COMMONWEALTH AVENUE	58	911	2,631	\$101,436.24	
GOSHEN ROAD	TRENTON RD	LORAIN RD	51	850	2,078	\$80,119.93	
HERITAGE HILL	INTERVALE RD	CUL DE SAC	38	877	2,919	\$88,674.44	
HYDE PARK STREET	200' S OF BISMARK ST	COLBURN ST	31	794	1,765	\$61,763.33	
INTERVALE ROAD	LEDGEWOOD RD	FOX MEADOW LA	50	1,180	3,410	\$131,461.73	
JUDITH CIRCLE	ROSEN RD	CUL DE SAC LOOP	51	624	1,802	\$63,063.00	
LINDALE AVENUE	NEEDHAM STREET	MARLBORO STREET	39	709	1,891	\$72,895.06	

Town of Dedham - Pavement Management Road Program

Name	From	To	PCI	Length (ft)	Area (sy)	Cost
MARLBORO STREET	MASSACHUSETTS AVENUE (LINDALE AVENUE	50	682	1,893	\$72,990.50
MASSACHUSETTS AVENUE	RIVERVIEW STREET	DEAD END	34	1,728	4,607	\$161,233.33
METCALF STREET	WASHINGTON ST	WILLOW ST	47	360	1,039	\$38,530.94
MYRTLE STREET	MILTON ST	WALNUT ST	53	531	1,415	\$54,557.83
RICHARDS STREET	WASHINGTON ST	205' W OF WASHINGTON ST	47	205	524	\$19,439.28
RIVERVIEW STREET	BRIDGE STREET	160' S OF COMMONWEALTH	50	860	2,294	\$88,452.16
ROSEN ROAD	GREENLODGE ST	CYNTHIA RD	52	465	1,344	\$51,820.69
SUMNER STREET	75' W OF WASHINGTON ST	LOWER EAST ST	43	266	738	\$27,359.40
VALLEY ROAD	HILLSIDE ROAD	RIVERSIDE DRIVE	49	722	1,925	\$74,224.15
WILLIS STREET	75' W OF WASHINGTON ST	LOWER EAST ST	44	339	941	\$34,865.80
WINTER STREET	BONAD RD	WILLIS ST	46	386	1,071	\$39,705.63
Repair Type Sum				23,601	67,027	\$2,471,418.26

Repair Type: *Routine Maintenance*

COMMON STREET	240' N OF WEST STREET	900' N OF WEST STREET	95	980	2,524	\$1,892.90
COMMON STREET	36' W OF HAVEN ST	1155' W OF WEST ST	91	2,161	7,202	\$5,949.84
COMMON STREET	BRIDGE ST	DEXTER ST	91	250	888	\$733.72
HIGH STREET	80' W OF MILTON ST	MAVERICK ST	91	1,654	9,189	\$7,591.39
MERRALL ROAD	WARREN ROAD	CUL-DE-SAC	89	561	1,897	\$1,422.93
MILTON STREET	140' S OF RIVER ST	TOWNLINE	91	1,067	3,911	\$3,231.06
MILTON STREET	150' S OF MYRTLE ST	200' N OF RIVER ST	91	1,650	6,598	\$5,450.93
MILTON STREET	200' N OF RIVER ST	140' S OF RIVER ST	91	389	2,552	\$2,108.27
MT. VERNON STREET	HIGH ST	RECREATION RD	91	252	839	\$693.09
RIVER STREET	180' W OF MILTON ST	CEDAR ST	91	1,838	5,310	\$4,386.62
RIVER STREET	TOWNLINE	180' W OF MILTON ST	95	1,219	4,604	\$3,453.27
WARREN ROAD	WHITCOMB ROAD CUL-DE-S	CUL-DE-SAC	90	921	2,881	\$2,160.40
WASHINGTON STREET	METCALF ST	378' N OF COURT ST	91	1,454	5,168	\$4,269.28

Town of Dedham - Pavement Management Road Program

Name	From	To	PCI	Length (ft)	Area (sy)	Cost
WASHINGTON STREET	SPRUCE ST	METCALF ST	91	961	2,991	\$2,470.62
WHITCOMB ROAD	WARREN ROAD	COMMON STREET	94	695	2,007	\$1,505.18
Repair Type Sum				16,050	58,562	\$47,319.50
Year Grand Total				39,886	126,266	\$2,533,648.67

7/1/2018

Repair Type: *Mill/Overlay*

CURVE STREET	COLBURN ST	MAVERICK ST	89	1,170	3,120	\$62,400.00
CURVE STREET	MAVERICK ST	100' E OF WASHINGTON ST	87	1,690	3,755	\$75,106.60
MCDONALD STREET	SPRAGUE ST	DEAD END	66	959	2,345	\$46,899.20
QUAKER LANE	WALNUT ST	DEAD END	67	382	890	\$17,808.00
SANDERSON AVENUE	MT VERNON ST	EAST ST	70	1,127	3,005	\$65,855.98
SANDERSON AVENUE	RIVER ST	MT VERNON ST	94	1,534	5,112	\$102,246.60
Repair Type Sum				6,862	18,229	\$370,316.38

Repair Type: *Preventative Maintenance*

BRIDGE STREET	COMMON STREET	HIGH STREET	90	463	1,542	\$18,504.00
BRIDGE STREET	COMMON STREET	462' N OF BRIDGE STREET	82	462	1,541	\$18,496.00
COMMON STREET	HIGH ST	BRIDGE ST	95	409	1,452	\$17,429.28
HIGH STREET	716' W OF WESTFIELD ST	STATE SECTION	82	1,814	5,642	\$74,182.33
HIGH STREET	AMES ST	BULLARD ST	95	395	1,493	\$17,915.76
HIGH STREET	BRIDGE ST	WESTFIELD ST	89	1,138	3,541	\$42,489.12
HIGH STREET	BULLARD ST	COMMON ST	95	1,637	4,547	\$54,560.04
HIGH STREET	COMMON ST	BRIDGE ST	89	685	1,903	\$22,833.36
HIGH STREET	WESTFIELD ST	716' W OF WESTFIELD ST	83	716	1,910	\$25,118.38
Repair Type Sum				7,719	23,571	\$291,528.27

Repair Type: *Reclamation Minor Collector and Local*

Town of Dedham - Pavement Management Road Program

<i>Name</i>	<i>From</i>	<i>To</i>	<i>PCI</i>	<i>Length (ft)</i>	<i>Area (sy)</i>	<i>Cost</i>
ASHCROFT STREET	DEAD END (N)	CUL DE SAC (S)	44	1,565	4,291	\$150,172.75
COACH LANE	GREENLODGE ST	CUL DE SAC	57	309	1,478	\$51,716.00
DALE STREET	RIVER ST	BORDER STREET	58	2,107	7,022	\$245,781.55
FILLMORE ROAD	277' E OF GREENLODGE ST	DEAD END	56	414	1,149	\$40,230.40
FLINTLOCKE LANE	GREENLODGE ST	CUL DE SAC	41	932	3,646	\$127,610.00
GREENLODGE STREET	200' S OF FLINTLOCKE LA	TRUMAN RD	52	321	713	\$24,943.45
LANCASTER ROAD	SPRAGUE ST	DEAD END	50	1,104	2,943	\$103,021.45
PATTY LEE LANE	GREENLODGE ST	DEAD END	52	361	963	\$33,693.45
ROOSEVELT ROAD	FILLMORE RD	DEAD ED	51	400	1,066	\$37,207.45
Repair Type Sum				7,512	23,271	\$814,376.50

Repair Type: *Routine Maintenance*

BINGHAM AVENUE	56' E OF CREST AVENUE	MAYNARD ROAD	89	760	2,026	\$1,519.40
BINGHAM AVENUE	BRIDGE STREET	56' E OF CREST AVE	88	298	794	\$595.60
CALVIN ROAD	SCOTT CIR	DEAD END	87	318	884	\$663.33
CIRCUIT ROAD	MADISON ST	CEDAR ST	93	1,187	3,165	\$2,374.00
COLWELL DRIVE	GREENLODGE ST	100' N OF SCOTT CIR	87	1,852	5,143	\$3,199.17
COMMON STREET	1155' E OF WEST ST	WEST ST	95	1,157	3,729	\$2,796.57
COMMON STREET	DEXTER ST	HAVEN STREET	95	1,984	6,392	\$4,794.18
CRESTON AVENUE	VINCENT RD	DEAD END	88	976	2,712	\$2,034.17
DEERPATH ROAD	HIGH STREET	CUL-DE-SAC	88	827	2,219	\$1,663.88
HAVEN STREET	WESTFIELD STREET	COMMON STREET	83	2,179	4,358	\$3,268.65
HILLSIDE ROAD	NEEDHAM STREET	VINE ROCK STREET	93	1,271	3,389	\$2,541.80
LOWDER STREET	570' N OF HIGHLAND ST	SAWYER DR	88	1,073	2,146	\$1,609.50
LOWDER STREET	SAWYER DR	HIGH ST	83	1,605	3,210	\$2,407.20
STONEY LEA ROAD	SANDY VALLEY RD	709' E OF STONEY LEA RD	89	3,557	7,508	\$2,627.86
VINCENT ROAD	EAST ST	379' S OF CRANBERRY LA	94	3,012	8,033	\$6,024.80

Town of Dedham - Pavement Management Road Program

Name	From	To	PCI	Length (ft)	Area (sy)	Cost
WASHINGTON STREET	PROVIDENCE HWY	BOSTON LINE	87	3,810	25,401	\$19,050.50
WESTFIELD STREET	HAVEN STREET	3060' W OF HAVEN STREET	89	3,060	6,799	\$5,099.33
WESTFIELD STREET	HIGH STREET	HAVEN STREET	86	475	1,056	\$791.67
Repair Type Sum				29,400	88,964	\$63,061.61
Year Grand Total				51,493	154,035	\$1,539,282.76

7/1/2019

Repair Type: Mill/Overlay

COUNTRY CLUB ROAD	1786' N OF GROVE STREET	330' N OF SCHOOL MASTER	65	2,283	5,582	\$111,632.89
COUNTRY CLUB ROAD	GROVE STREET	1786' N OF GROVE STREET	71	1,786	4,764	\$95,274.67
LOWER EAST STREET	TOWNLINE	255' W OF WASHINGTON ST	69	1,329	3,691	\$73,827.78
RIVER STREET	180' W OF MILTON ST	CEDAR ST	69	1,838	5,310	\$106,200.73
STOUGHTON ROAD	SPRAGUE ST	GREENLODGE ST	69	1,251	3,615	\$72,303.11
Repair Type Sum				8,488	22,962	\$459,239.18

Repair Type: Reclamation Minor Collector and Local

ARROWHEAD LANE	CENTRAL AV	DEAD END	51	405	1,125	\$39,375.00
BEECH STREET	CEDAR ST	DRESSER AV	52	667	1,854	\$64,876.39
BEECH STREET	DRESSER AV	DEAD END	39	521	1,446	\$50,613.89
BRIARWOOD LANE	GREENLODGE ST	DEAD END	40	452	1,205	\$42,186.67
CENTRAL AVENUE	DEAD END	ARROWHEAD LA	38	523	2,323	\$81,293.33
CRANSTON AVENUE	VINCENT RD	DEAD END	33	250	696	\$24,344.44
ENDICOTT STREET	EAST ST	722' S of EAST ST	41	722	2,005	\$70,175.00
FRESNO ROAD	GREENBORO RD	DEAD END	44	320	854	\$29,876.00
GREENSBORO ROAD	100' E OF GLEN RD	68' W OF GLEN RD	54	169	431	\$15,098.22
GREENSBORO ROAD	68' W OF GLEN RD	603' N OF GAINSVILLE RD	45	183	467	\$16,359.39
GREENSBORO ROAD	FRESNO RD	100' E OF GLEN RD	45	355	908	\$31,788.56

Town of Dedham - Pavement Management Road Program

<i>Name</i>	<i>From</i>	<i>To</i>	<i>PCI</i>	<i>Length (ft)</i>	<i>Area (sy)</i>	<i>Cost</i>
LAMOINE STREET	96' E OF EAST ST	DEAD END	43	226	628	\$21,962.50
LAMOINE STREET	EAST ST	96' E OF EAST ST	62	97	269	\$9,411.11
MADISON STREET	EAST ST	DEAD END	44	692	1,923	\$67,287.50
MARGARET ROAD	GREENLODGE ST	DEAD END	46	279	807	\$28,240.33
PINE GROVE AVENUE	UPLAND RD	DEAD END	27	439	926	\$32,407.67
PRESTON STREET	75' E OF EAST ST	DEAD END	36	582	1,616	\$56,544.44
PURITAN LANE	EAST ST	CUL DE SAC	32	686	2,053	\$66,694.44
SMITH CIRCLE	GREENLODGE ST	CUL DE SAC	43	295	1,636	\$36,661.33
STEPHEN LANE	GREENLODGE ST	CUL DE SAC	46	424	1,773	\$41,251.39
THOMPSON STREET	EAST ST	DEAD END	39	815	2,174	\$76,094.67
WEST JERSEY STREET	CENTRAL AV	DEAD END	38	632	1,755	\$61,415.28
WINSTEAD AVENUE	RIDGEWAY ST	DEAD END	40	758	2,106	\$73,713.89
Repair Type Sum				10,491	30,979	\$1,037,671.44

Repair Type: Routine Maintenance

CLEVELAND STREET	BIRCH ST	LEONARD ST	95	1,245	3,874	\$2,905.70
COLBURN STREET	CURVE ST	MAVERICK ST	86	1,292	3,445	\$2,584.11
COLBURN STREET	DEAD END	96' N OF HYDE PARK ST	84	781	2,604	\$1,953.25
COLONIAL DRIVE	537' N OF BUSSEY ST	THOMAS ST	86	581	1,097	\$822.45
COLONIAL DRIVE	BUSSEY ST	537' N OF BUSSEY ST	90	537	1,552	\$1,164.37
CONGRESS PLACE	BUSSEY ST	670' N OF BUSSEY ST	95	669	1,339	\$1,003.95
EMMETT AVENUE	COLBURN ST	ODYSSEY LA	86	844	2,345	\$1,758.96
EMMETT AVENUE	ODYSSEY LA	SAWMILL LA	86	668	1,484	\$1,113.26
GREENHOOD STREET	COLBURN ST	GARFIELD RD	86	748	1,828	\$1,371.33
GREENHOOD STREET	COLONIAL DR	COLBURN ST	95	894	2,284	\$1,712.93
HARDING TERRACE	COLBURN ST	DADHAM BLVD	86	1,123	2,994	\$2,245.60
HARDING TERRACE	DEDHAM BLVD	DEAD END	95	1,167	2,723	\$2,042.40

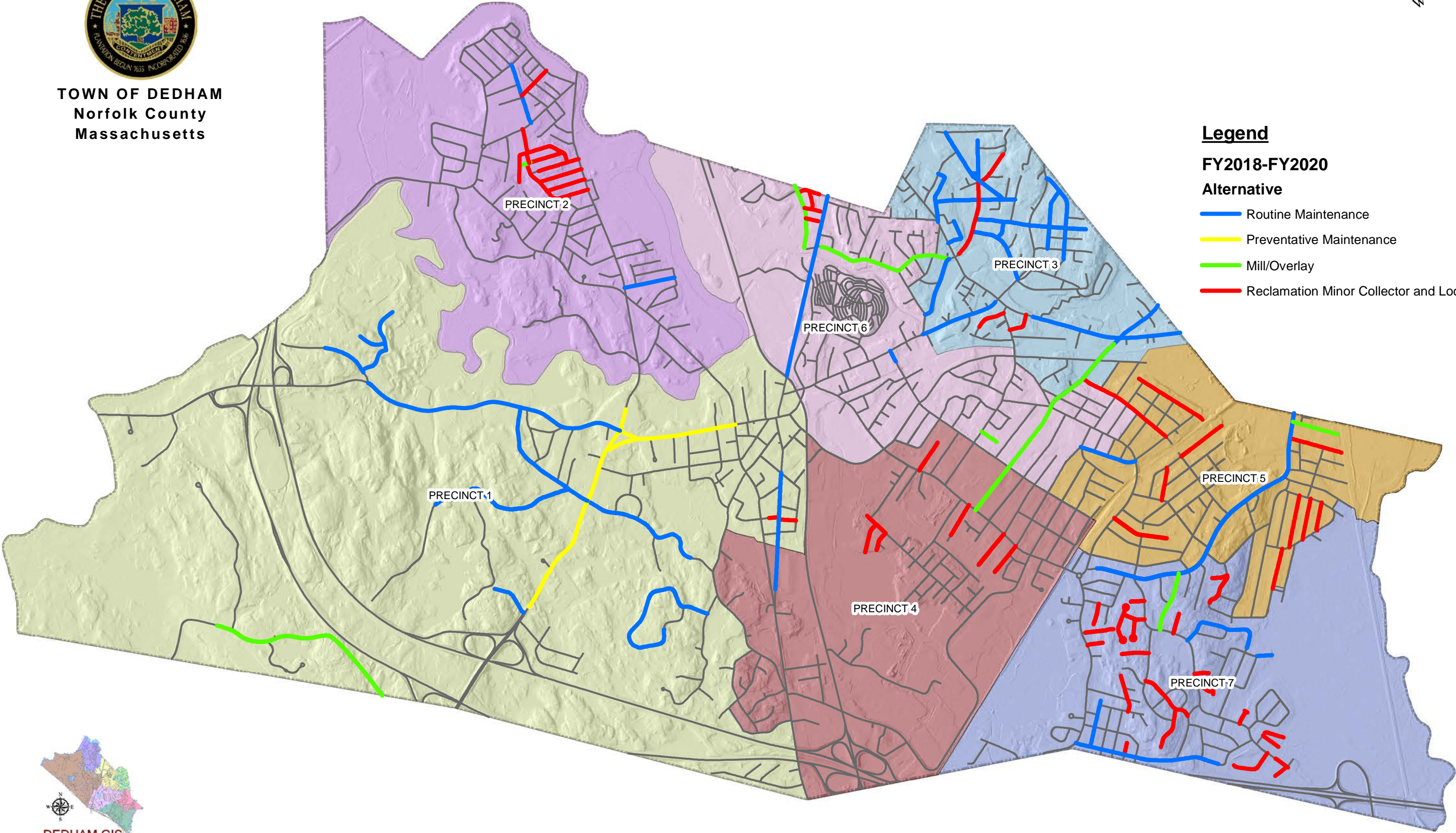
Town of Dedham - Pavement Management Road Program

<i>Name</i>	<i>From</i>	<i>To</i>	<i>PCI</i>	<i>Length (ft)</i>	<i>Area (sy)</i>	<i>Cost</i>
LEONARD STREET	DEDHAM BLVD	BIRCH SR	95	1,646	5,119	\$3,839.50
LEONARD STREET EXTENSIO	BIRCH ST	195' S of BIRCH ST	95	195	476	\$357.13
SPRAGUE STREET	100' E OF DRESSER AV	50' W OF HOOPER RD	93	3,830	14,045	\$10,533.60
SPRAGUE STREET	167' S OF COVENTRY RD	TOWN LINE	86	941	3,451	\$2,588.54
SPRAGUE STREET	212' W OF CEDAR ST	UPLAND RD	91	605	2,756	\$2,067.08
SPRAGUE STREET	50' W OF HOOPER RD	167' S OF COVENTRY RD	90	468	3,067	\$2,300.51
SPRAGUE STREET	UPLAND RD	100' E OF DRESSER AV	93	286	1,776	\$1,332.33
STAFFORD STREET	HARDING TERR	EMMITT AV	86	375	999	\$749.60
WESTFIELD STREET	HAVEN STREET	3060' W OF HAVEN STREET	76	3,060	6,799	\$5,099.33
WHITEHALL STREET	WARE ST	GREENHOOD ST	95	1,994	5,317	\$3,988.00
<i>Repair Type Sum</i>				23,949	71,379	\$53,533.93
Year Grand Total				42,928	125,319	\$1,550,444.55
Grand Total of All Years				134,306	405,621	\$5,623,375.98

PAVEMENT MANAGEMENT
FY2018 - FY2020 ROAD PROGRAM



TOWN OF DEDHAM
Norfolk County
Massachusetts



Legend

FY2018-FY2020

Alternative

- Routine Maintenance
- Preventative Maintenance
- Mill/Overlay
- Reclamation Minor Collector and Local



DEDHAM GIS

This document is intended for
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analysis purposes only.

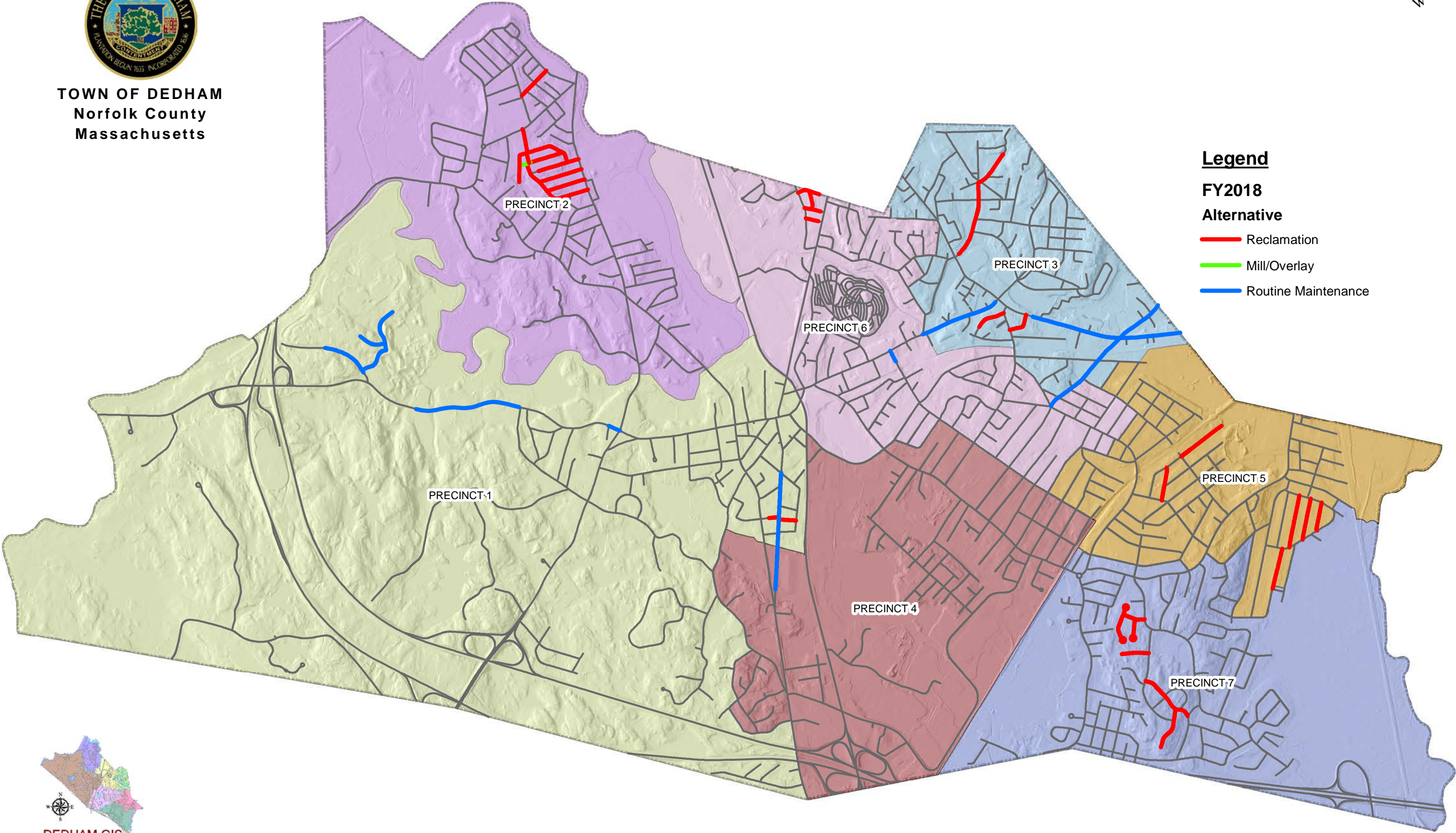
1 inch = 2,000 feet

Produced by:
The Town of Dedham
Engineering Department

PAVEMENT MANAGEMENT
FY2018 - FY2020 ROAD PROGRAM






TOWN OF DEDHAM
Norfolk County
Massachusetts



Legend

**FY2018
Alternative**

-  Reclamation
-  Mill/Overlay
-  Routine Maintenance



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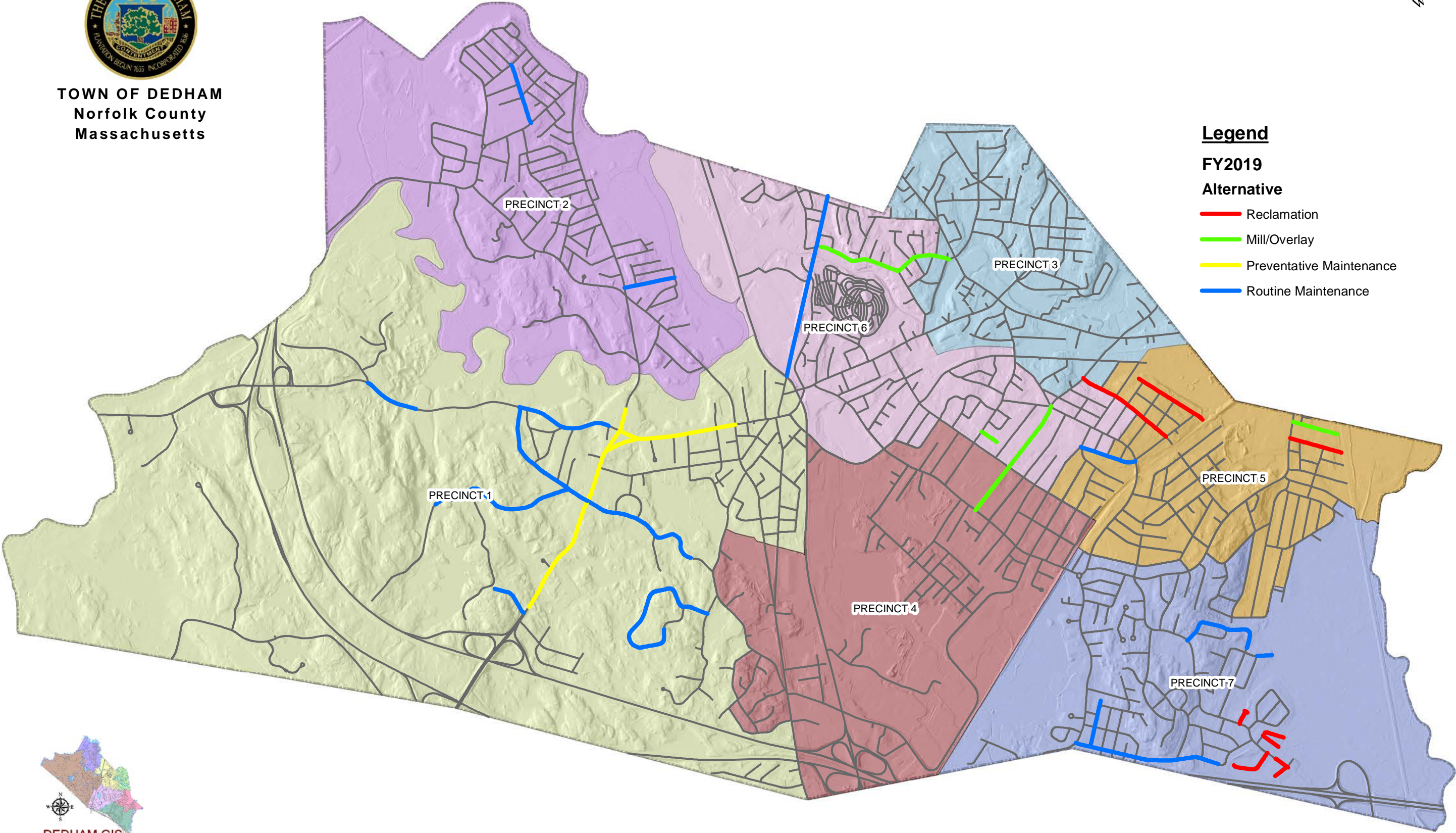
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PAVEMENT MANAGEMENT
FY2018 - FY2020 ROAD PROGRAM



TOWN OF DEDHAM
Norfolk County
Massachusetts



Legend

FY2019

Alternative

- Reclamation
- Mill/Overlay
- Preventative Maintenance
- Routine Maintenance



DEDHAM GIS

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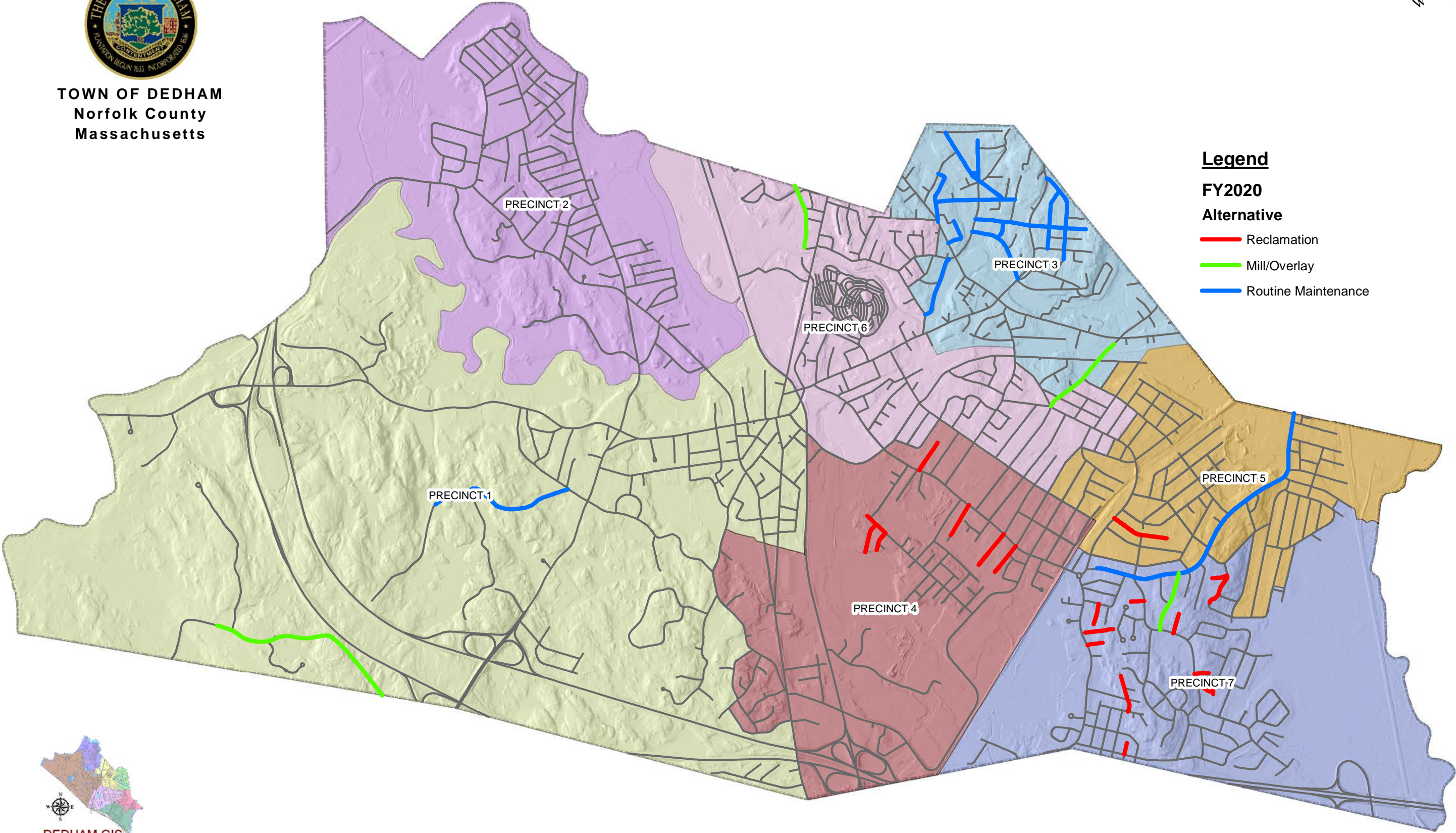
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PAVEMENT MANAGEMENT
FY2018 - FY2020 ROAD PROGRAM



TOWN OF DEDHAM
Norfolk County
Massachusetts



Legend

**FY2020
Alternative**

- Red line: Reclamation
- Green line: Mill/Overlay
- Blue line: Routine Maintenance



DEDHAM GIS

This document is intended for
Town of Dedham planning and
analysis purposes only.

1 inch = 2,000 feet

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