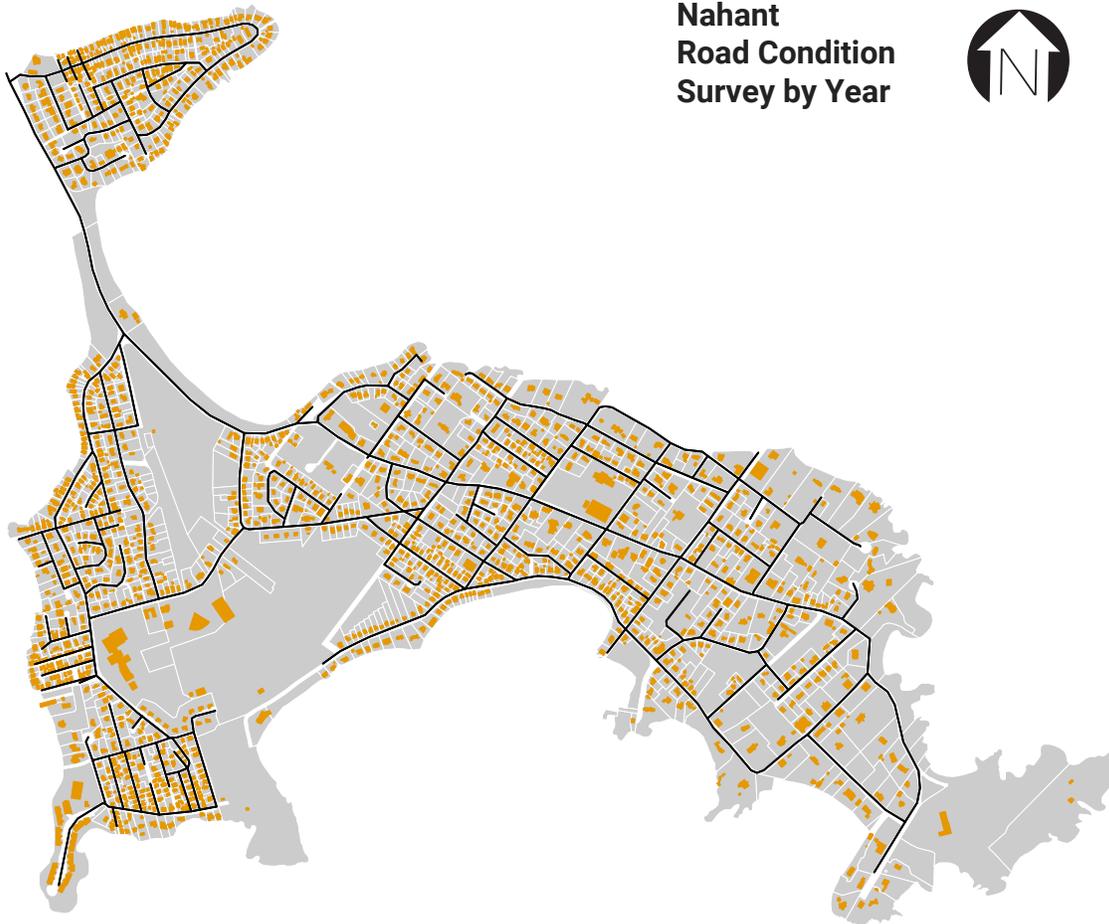




FY 2019

# Asset Management Summary



Nahant  
Road Condition  
Survey by Year



Prepared for:  
**Town of Nahant  
Public Works  
Department**

Antonio Barletta  
Town Administrator  
Town of Nahant  
334 Nahant Road  
781-581-0088  
[www.nahant.org](http://www.nahant.org)

Prepared by:  
**Stantec**

5 Burlington Woods  
Burlington, MA 01803

## Existing Conditions

Nahant's roadway network is comprised of 100 roads which total 17.5 public miles.

Since 2005 Stantec Consulting Services, Inc (STANTEC) has been assisting the Town with implementing and updating its Pavement Management System. In December of 2018, STANTEC completed a re-survey of the entire Town's public roadway network, determined today's average road network Pavement Condition Index (PCI), roadway repair backlog, and investigated three (3) future funding scenarios. STANTEC identified 128 pavement segments and determined the Town's average road network PCI in January 2019 was a 74.9, placing Nahant's typical road conditions in the Routine Maintenance treatment band (PCI range from 68 to 87), as seen to the right. This PCI average value represents a roadway in "Very Good" condition.



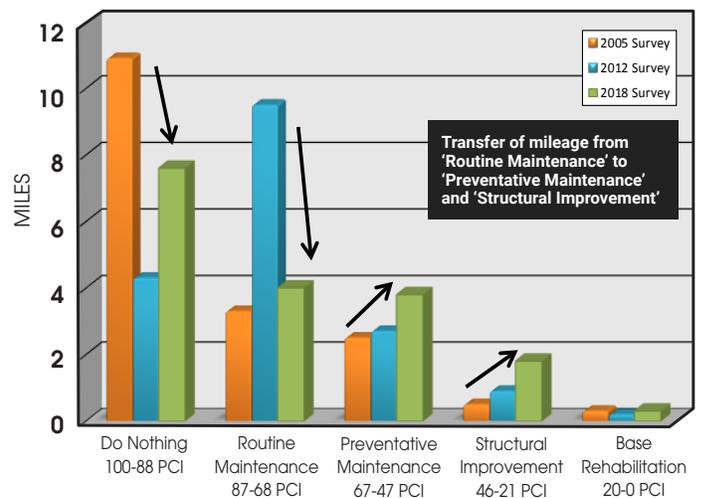
**74.9**  
AVERAGE  
PAVEMENT  
CONDITION  
INDEX (PCI)

Cottage St from Winter St to Dead end

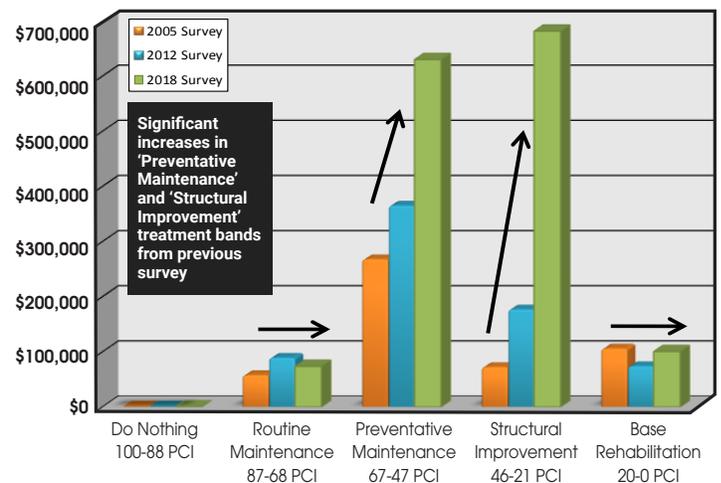
## Current Backlog of Outstanding Repairs (\$1,485,092)

The backlog is defined as the cost of repairing all the roads within one year and bringing the average PCI to a near perfect 100. Backlog is a "snapshot" or relative measure of outstanding repair work. The backlog not only represents how far behind the Nahant roadway network is in terms of its present physical condition, but also its cost value serves as a benchmark to measure the impact of various funding scenarios. The current backlog offers a basis for comparison to future and/or past year's backlog(s). Backlog dollars represent the pavement structure only; it does not include related repair cost for drainage, sidewalk, curbing, signals, or signs. Nahant's backlog as of January 2019 is \$1,485,092. The figure to the right summarizes the backlog repair costs by PCI treatment bands for this year, compared to the last time Nahant's network was surveyed by STANTEC in 2005 and 2012.

### Current PCI Distribution in Miles By Treatment Band



### Current Backlog Distribution By Treatment Dollars





# Budget Analysis

Using the Town's pavement management data, Stantec modeled three, five-year future funding scenarios.

The analysis software of the PMS is where financial determinations and projections are made. Consideration is given to the required budget, by repair type, based on the supplied information from Town and STANTEC, for overall desired roadway network conditions. Various scenarios were analyzed to measure the effects of alternative funding levels and to determine the funding needed to avoid deteriorating pavement conditions. Today's backlog cost and future funding scenarios are based on Nahant's current unit bid prices for roadway construction and projected liquid asphalt prices.

Using the Town's pavement management software, STANTEC modeled three, five-year future funding scenarios:

1. \$170,000 per year
2. \$205,000 per year
3. \$255,000 per year

Each scenario, as depicted in the line charts below, results in a projected average network PCI and backlog. All scenarios incorporate a 3.0% annual inflation rate. Therefore, where the annual road appropriation appears to remain level, it in fact represents a net budget decrease due to impact of inflation.

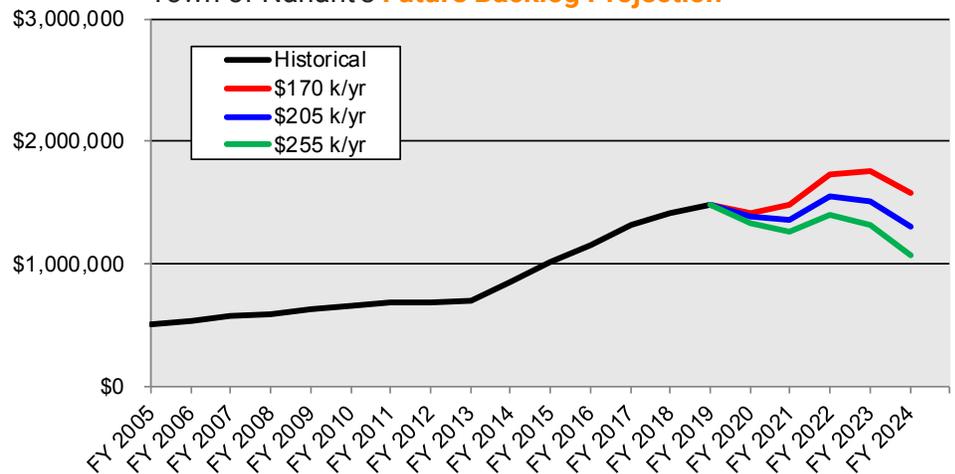
As depicted by the red line, STANTEC evaluated a \$170k per year funding level over five years. This scenario shows the backlog slightly increases to \$1,584,308 while the network average PCI faintly increases to 75.3 in FY 2024. This funding scenario is considered a regressive scenario because the backlog increases.

STANTEC investigated a five-year \$205k per year scenario, as shown by the blue line. Here, the backlog slightly decreases to \$1,304,057 and the network average PCI

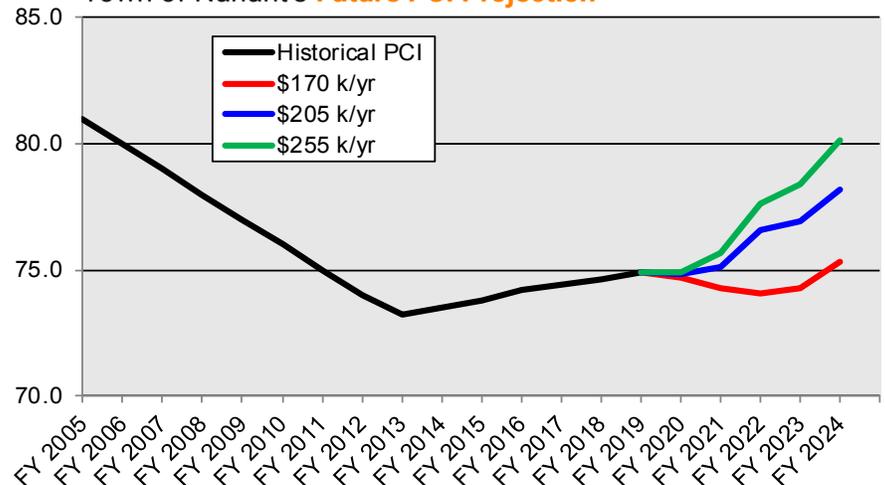
increases to 78.2 in FY 2024. This scenario shows that the current budget improves the network PCI and maintains today's backlog.

Lastly, a five-year 'Progressive' scenario was evaluated. As shown by the green line, the backlog decreases to \$1,064,325 and the network average PCI increases to 80.1 in FY 2024. This scenario shows that additional funding would increase the network condition, while lowering the backlog for financial sustainability beyond FY2024.

### Town of Nahant's Future Backlog Projection



### Town of Nahant's Future PCI Projection





## Concluding Remarks

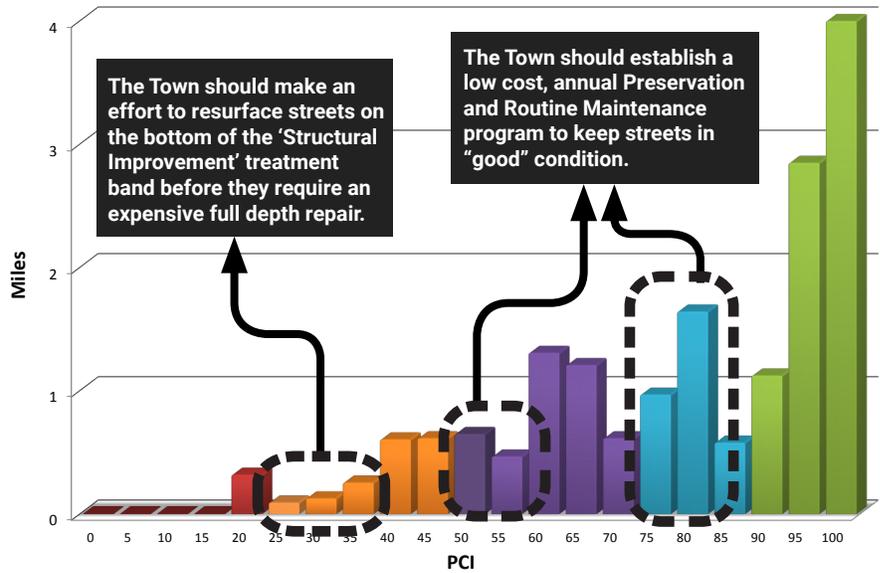
Since STANTEC's FY2013 report, the network PCI has yet to return to over 80, though it has slightly improved over the last 5 years, the backlog has been steadily on rise also.

The funding analyses herein indicate that existing funding levels of \$150k will likely not sustain expected pavement deterioration.

The histogram to the right shows the PCI of the network in 5 point increments. The pavement management strategy that the Town should implement are highlighted in the the boxes. First, the Town should make a diligent effort to start resurfacing streets which are on the bottom of the 'Structural Improvement' treatment band. By making this effort, the Town can prevent these segments from deteriorating into 'Base Rehabilitation' and requiring a costly full depth repair. Secondly, 15% of the network is already dedicated to 'Structural Improvement' and 'Base Rehabilitation'. The Town needs to establish a strong annual 'Routine' and 'Preservation' Maintenance program to turn their "fair" streets into "good" streets at a minimal cost.

Stantec recommends that at a minimum, the Town should increase funding to be at least \$205,000 annually to sufficiently address maintenance segments, as well as resurfacing candidates, to maintain a sustainable backlog and healthy network conditions. Attached is the suggested 5 year pavement management plan.

## Current PCI Histogram



## 2018 Backlog PCI



# Segments FST Analysis Recommendations by Activity

Filter	((..\Model ID = "2") And (Plan Cost > 0))
Working Set Filter	<Not Applicable>
Sort	Segment ID\Description, Segment ID
Group By	Plan Year, Plan Activity

## Segments FST Analysis Recommendations by Activity

**Scenario** 2019 - 2023

**Description** 5 Year Plan: \$220k/yr Suggested Program

**Do Best First** No

**Protocol** Nahant Roadway 2018

**Budget** 205k/yr

**Time Frame** 5

**Segments FST Analysis Recommendations by Activity**

**Scenario** 2019 - 2023

**Description** 5 Year Plan: \$220k/yr Suggested Program

**Do Best First** No

**Protocol** Nahant Roadway 2018

**Budget** 205k/yr

**Time Frame** 5

**Plan Year** 1

Street	From	To	Length	Plan Activity	Plan Cost	PCI	NPR
88	TRIMOUNTAIN RD	GARDNER RD	BASS POINT RD	682 ft	BC - 2" Mill & Overlay Local	\$34,997	31.2 61.2
Segment Count 1			<b>0.1</b> miles		<b>\$34,997</b>		
5	BEACH LN	PHILLIPS RD	DEAD END	115 ft	BC - 2" Overlay Local	\$4,084	44.0 44.2
31	GODDARD DR	GARDNER RD	DEAD END	350 ft	BC - 2" Overlay Local	\$13,160	34.5 47.1
78	SOUTHWICK AV	CASTLE RD	DEAD END	270 ft	BC - 2" Overlay Local	\$6,768	18.2 52.1
9996	SPINNEY PATH	BASS POINT RD	DEAD END	280 ft	BC - 2" Overlay Local	\$8,773	43.6 44.3
Segment Count 4			<b>0.2</b> miles		<b>\$32,785</b>		
10.2	CASTLE RD	FLASH RD	GARDNER RD	1298 ft	BC - 3" Overlay Art/Col	\$116,439	39.2 71.0
Segment Count 1			<b>0.2</b> miles		<b>\$116,439</b>		
19	COPPER BEECH LN	TALLWOOD RD	CUL-DE-SAC	211 ft	BC - Crack Seal and Patch	\$827	68.4 36.7
9994	FALLON WAY	BURPEE #1	DEAD END	305 ft	BC - Crack Seal and Patch	\$648	65.2 37.6
60.3	NAHANT RD	ANTIGO WAY	POND RD	1466 ft	BC - Crack Seal and Patch	\$7,662	76.3 64.2
60.5	NAHANT RD	OCEAN ST	FORTY STEPS LN	3103 ft	BC - Crack Seal and Patch	\$16,218	75.2 64.6
Segment Count 4			<b>1.0</b> miles		<b>\$25,355</b>		
11	CASTLE TER	CASTLE RD	DEAD END	158 ft	BC - Crack Seal or Patch	\$173	83.0 32.1
17	COLBY WAY	GARDNER RD	BASS POINT RD	695 ft	BC - Crack Seal or Patch	\$887	85.8 44.4
20	COTTAGE ST	WINTER ST	DEAD END	284 ft	BC - Crack Seal or Patch	\$518	75.2 34.6
28.1	FOX HILL RD	1327' S OF CASTLE RD	FLASH RD	785 ft	BC - Crack Seal or Patch	\$1,645	82.5 45.4
36.2	HIGH ST	NAHANT RD	DEAD END	215 ft	BC - Crack Seal or Patch	\$392	74.2 34.9
38	HIGHLAND AV	CASTLE RD	DEAD END	690 ft	BC - Crack Seal or Patch	\$1,446	79.2 33.3
39	HIGHLAND RD	POND ST	OCEAN ST	686 ft	BC - Crack Seal or Patch	\$750	78.1 46.7
55	LODGE RD	OCEAN ST	DEAD END	475 ft	BC - Crack Seal or Patch	\$1,039	83.7 45.0
87	TALLWOOD RD	LODGE RD	NAHANT RD	340 ft	BC - Crack Seal or Patch	\$743	82.9 45.3
98	WHITE WAY	POND ST	DEAD END	377 ft	BC - Crack Seal or Patch	\$824	78.0 33.7
Segment Count 10			<b>0.9</b> miles		<b>\$8,416</b>		
<b>Plan cost for Plan Year 1</b>			<b>2.4</b> miles		<b>\$217,993</b>		
Segment Count 20							

**Segments FST Analysis Recommendations by Activity**

**Scenario** 2019 - 2023

**Description** 5 Year Plan: \$220k/yr Suggested Program

**Do Best First** No

**Protocol** Nahant Roadway 2018

**Budget** 205k/yr

**Time Frame** 5

**Plan Year** 2

Street	From	To	Length	Plan Activity	Plan Cost	PCI	NPR
60.1 NAHANT RD	450' S OF WILSON RD	CASTLE RD	1897 ft	BC - 3" Mill & Overlay Art/Col	\$189,599	31.8	77.9
Segment Count	1		<b>0.4</b> miles		<b>\$189,599</b>		
9999 BURPEE RD	LINDA LN	SIMMONS RD	526 ft	BC - Crack Seal and Patch	\$888	74.4	47.9
18 COOLIDGE RD	SPRING RD	SUNSET RD	375 ft	BC - Crack Seal and Patch	\$1,457	70.9	48.9
75 SEA VIEW AV	BASS POINT RD	GARDNER RD	482 ft	BC - Crack Seal and Patch	\$1,221	69.2	49.5
Segment Count	3		<b>0.3</b> miles		<b>\$3,566</b>		
10 CASTLE RD	NAHANT RD	HARBOR VIEW RD	1170 ft	BC - Crack Seal or Patch	\$2,873	83.4	57.4
13 CENTRAL ST	PLEASANT ST	SUMMER ST	672 ft	BC - Crack Seal or Patch	\$1,523	85.8	44.4
26 FLASH RD	CASTLE RD	SPRING RD	1649 ft	BC - Crack Seal or Patch	\$4,984	86.9	56.3
35 HARRIS ST	COLBY WAY	BREEZY HILL TER	205 ft	BC - Crack Seal or Patch	\$445	87.6	43.8
42 HOVEY WAY	KAROLYN CIR	DEAD END	248 ft	BC - Crack Seal or Patch	\$515	75.3	34.5
47 KAROLYN CIR	CASTLE RD	DEAD END	633 ft	BC - Crack Seal or Patch	\$837	78.7	46.6
59 MILLS TER	LITTLE NAHANT RD	DEAD END	180 ft	BC - Crack Seal or Patch	\$272	81.4	32.7
68 POND ST	WHITE WAY	VALLEY RD	487 ft	BC - Crack Seal or Patch	\$1,058	78.6	46.6
97 WHARF ST	NAHANT RD	WILLOW RD	1742 ft	BC - Crack Seal or Patch	\$3,455	85.7	44.4
101 WILSON RD	NAHANT RD	LITTLE NAHANT RD	2285 ft	BC - Crack Seal or Patch	\$5,611	87.0	44.0
102 WINTER ST	WILLOW RD	MARGINAL RD	1531 ft	BC - Crack Seal or Patch	\$3,470	85.6	44.4
Segment Count	11		<b>2.0</b> miles		<b>\$25,043</b>		

**Plan cost for Plan Year 2** **2.7** miles **\$218,208**

Segment Count 15

**Segments FST Analysis Recommendations by Activity**

**Scenario** 2019 - 2023

**Description** 5 Year Plan: \$220k/yr Suggested Program

**Do Best First** No

**Protocol** Nahant Roadway 2018

**Budget** 205k/yr

**Time Frame** 5

**Plan Year** 3

	<b>Street</b>	<b>From</b>	<b>To</b>	<b>Length</b>	<b>Plan Activity</b>	<b>Plan Cost</b>	<b>PCI</b>	<b>NPR</b>
52	LINDA LN	WILSON RD	BURPEE RD	581 ft	BC - 2" Overlay Local	\$32,181	33.0	60.6
	Segment Count	1		<b>0.1</b> miles		<b>\$32,181</b>		
60.2	NAHANT RD	CASTLE RD	ANTIGO WAY	1927 ft	BC - 3" Overlay Art/Col	\$206,343	30.3	78.4
	Segment Count	1		<b>0.4</b> miles		<b>\$206,343</b>		
<b>Plan cost for Plan Year 3</b>				<b>0.5</b> miles		<b>\$238,524</b>		
	Segment Count	2						

**Segments FST Analysis Recommendations by Activity**

**Scenario** 2019 - 2023

**Description** 5 Year Plan: \$220k/yr Suggested Program

**Do Best First** No

**Protocol** Nahant Roadway 2018

**Budget** 205k/yr

**Time Frame** 5

**Plan Year** 4

Street	From	To	Length	Plan Activity	Plan Cost	PCI	NPR
94 WENDELL RD	CASTLE RD	DEAD END	340 ft	BC - 2" Mill & Overlay Local	\$19,892	24.4	50.2
Segment Count 1			<b>0.1</b> miles		<b>\$19,892</b>		
43 HOWE RD	LITTLE NAHANT RD	CUL-DE-SAC	500 ft	BC - 2" Overlay Local	\$25,104	27.5	49.2
83 SUMMER ST CT	SUMMER ST	WINTER ST	670 ft	BC - 2" Overlay Local	\$19,878	21.2	64.3
Segment Count 2			<b>0.2</b> miles		<b>\$44,983</b>		
6 BREEZY HILL TER	GARDNER RD	DEAD END	400 ft	BC - Crack Seal or Patch	\$560	82.5	45.4
51 LENNOX RD	LITTLE NAHANT RD	JAMES AV	1056 ft	BC - Crack Seal or Patch	\$2,112	78.5	46.6
53 LITTLE NAHANT RD	WILSON RD	MILLS TER	1428 ft	BC - Crack Seal or Patch	\$3,284	86.0	55.9
63.2 OCEAN ST	VALLEY RD	WILLOW RD	276 ft	BC - Crack Seal or Patch	\$662	80.1	46.1
64 PARROT RD	WILSON RD	DEAD END	120 ft	BC - Crack Seal or Patch	\$120	78.7	33.5
77 SIMMONS RD	LENOX RD	LITTLE NAHANT RD	380 ft	BC - Crack Seal or Patch	\$912	86.6	44.1
81 SPRING RD	POND ST	NAHANT RD	2482 ft	BC - Crack Seal or Patch	\$6,205	88.9	55.7
82.1 SUMMER ST	MARGINAL RD	NAHANT RD	858 ft	BC - Crack Seal or Patch	\$2,145	78.7	46.6
95 WENDELL RD EXT	CASTLE RD	DEAD END	583 ft	BC - Crack Seal or Patch	\$758	80.3	46.1
96 WEST CLIFF ST	PEARL RD	DEAD END	99 ft	BC - Crack Seal or Patch	\$119	82.1	32.5
Segment Count 10			<b>1.5</b> miles		<b>\$16,878</b>		
32 GREYSTONE RD	NAHANT RD	HIGH ST	975 ft	BC - Reclaim Local	\$74,003	15.4	66.0
66.1 PHILLIPS RD	200' S OF WENDELL RD	CASTLE RD	490 ft	BC - Reclaim Local	\$59,506	18.1	65.2
Segment Count 2			<b>0.3</b> miles		<b>\$133,508</b>		
<b>Plan cost for Plan Year 4</b>			<b>2.0</b> miles		<b>\$215,261</b>		
Segment Count 15							

**Segments FST Analysis Recommendations by Activity**

**Scenario** 2019 - 2023

**Description** 5 Year Plan: \$220k/yr Suggested Program

**Do Best First** No

**Protocol** Nahant Roadway 2018

**Budget** 205k/yr

**Time Frame** 5

**Plan Year** 5

Street	From	To	Length	Plan Activity	Plan Cost	PCI	NPR	
21	DESMOND DR	WHARF ST	DEAD END	312 ft	BC - 2" Overlay Local	\$17,597	19.0	51.9
9995	WILSON AV	WILSON RD	DEAD END SOUTH	101 ft	BC - 2" Overlay Local	\$2,136	37.8	46.1
Segment Count			2	<b>0.1</b> miles	<b>\$19,733</b>			
99.1	WILLOW RD	WHARF ST	OCEAN ST	2036 ft	BC - 3" Overlay Art/Col	\$147,768	32.5	73.1
Segment Count			1	<b>0.4</b> miles	<b>\$147,768</b>			
58	MARGINAL RD	OCEAN ST	SUMMER ST	1373 ft	BC - Crack Seal and Patch	\$5,065	76.0	47.4
Segment Count			1	<b>0.3</b> miles	<b>\$5,065</b>			
8	CARY RD	SUMMER ST	PLEASANT ST	685 ft	BC - Crack Seal or Patch	\$1,416	80.7	46.0
46	JAMES AV	BURPEE RD #1	DEAD END	290 ft	BC - Crack Seal or Patch	\$360	87.7	43.8
60	NAHANT RD	WILSON RD	450' S OF WILSON RD	448 ft	BC - Crack Seal or Patch	\$1,481	87.1	60.9
63	OCEAN ST	MARGINAL RD	NAHANT RD	1033 ft	BC - Crack Seal or Patch	\$2,562	79.8	46.2
67	PLEASANT ST	NAHANT RD	DEAD END	1050 ft	BC - Crack Seal or Patch	\$2,170	78.4	46.6
Segment Count			5	<b>0.7</b> miles	<b>\$7,988</b>			
92	WALTON LN	FORTY STEPS LN	WHARF ST	440 ft	BC - Reclaim Local	\$36,694	13.2	66.7
Segment Count			1	<b>0.1</b> miles	<b>\$36,694</b>			
<b>Plan cost for Plan Year</b>			<b>5</b>	<b>1.5</b> miles	<b>\$217,249</b>			
Segment Count			10					
				<b>9.1</b> miles	<b>\$1,107,235</b>			



**STATE AID REIMBURSABLE PROGRAMS – REIMBURSEMENT REQUEST**

Updated 12/2017

City/Town: Nahant Project Name: FY19 Roadway Resurfacing Project

Contract # 0050899

Program Type: Chapter 90  Muni Bridge  Complete Streets  Other

Project request was approved on 10/30/2018 For \$ 183,778.00  
at 100% Reimbursement Rate = \$ 183,778.00

- 1) Attached are forms which document payment of approved expenditures totaling \$ 165,299.40 for which we are requesting \$ 165,299.40 at the approved reimbursement rate of 100%.
- 2) The amount expended to date on this project is \$ 165,299.40 Including this payment.
- 3) Is this request for a FINAL payment on this project?  Yes  No  
If yes: Include a "Final Report"
- 4) Remarks:

**CERTIFICATION**

A. I hereby certify under penalties of perjury that the charges for labor, materials, equipment, and services itemized and summarized on the attached forms are true and correct, and were incurred on this project in conformance with the MassDOT Highway Division Policies and established Municipal Standards that were approved for this project.

Timothy T. Lowe (Signed) Interim DPW Superintendent (Municipal Highway Official Title) 1/9/19 (Date)

B. I/we certify under penalties of perjury that the items as listed or summarized on the attached forms were examined; that they are in conformity with our existing wage schedule, equipment rates, and all applicable statutes and regulations; that they are properly chargeable to the appropriation(s) designated for this work; and that Executive Order No. 195, dated April 27, 1981 and Chapter 11, Section 12 is acknowledged as applicable.

**REVIEWED AND APPROVED FOR TRANSMITTAL**

by Deborah A. Waters

Deborah A. Waters

Town Accountant  
(Accounting Officer's Title)

DATE 1/8/19

Signed: Antonio Barletta

Antonio Barletta

Town Administrator

DATE 1/8/19

\*Submit this Chapter 90 Form to the District Highway Director



Amount: \$165,299.40      Sequence Number: 9692455968  
 Account: 800153      Capture Date: 12/21/2018  
 Bank Number: 11000138      Check Number: 2185

Town of Nahant 334 Nahant Road Nahant, MA 01908	<b>Bank of America</b> 5-18/110	<b>2185</b> <small>BRANCH</small>
		DATE 12/20/2018
		AMOUNT <b>\$ 165299.40</b>
****One Hundred Sixty Five Thousand Two Hundred Ninety Nine and 40/100 Dollars		
PAY TO THE ORDER OF: <b>AGGREGATE INDUSTRIES</b> 1715 BROADWAY SAUGUS, MA 01906		
		<i>K. J. O.</i> AUTHORIZED SIGNATURE
⑆00 2185 ⑆ ⑆0 11000138 ⑆ 000000800153 ⑆		

Please See Deposit

Dead on Bank

12/21/2018

For Deposit Only - JPMBC

Electronic Endorsements:

Date	Sequence	Bank #	Endrs Type	TRN	RRC	Bank Name
12/21/2018	6470651352	74909962	Rtn Loc/BOFD	Y		JPMORGAN CHASE BANK,
12/21/2018	009692455968	111012822	Pay Bank	N		BANK OF AMERICA NA



Remit To: Aggregate Industries - Northeast Region  
 1715 Broadway  
 Saugus, MA 01906

Invoice Date 12/06/18  
 Invoice Number 468517  
 Page 1  
 Job Number 1140082  
 Purchase Order No.  
 Plant Number  
 Customer Number 676778

**\*\* INVOICE \*\***

**Bill To:** NAHANT, TOWN OF/DPW  
 334 NAHANT ROAD  
 NAHANT, MA 01908

**Ship To:** NAHANT, VARIOUS STREETS

Last Date Worked	Billing Quantity	UM	Description	Unit Price	Invoice Amount
12/01/18	1,049.20	TN	BIT CONC TYPE 1	104.00	109,116.80
12/01/18	11,124.00	SY	COLD PLANING	3.65	40,602.60
12/01/18	32.00	EA	STRUCTURES ADJUSTED	325.00	10,400.00
12/01/18	28.00	EA	GATE BOX ADJUSTED	185.00	5,180.00

Total Invoice Amount 165,299.40

**\*\*Please visit our newly enhanced Website: [www.aggregate-us.com](http://www.aggregate-us.com)\*\***

Northeast Region • 1715 Broadway • Saugus • MA 01906 • 781-941-7200 • Fax 781-231-4310

TO (Owner): **TOWN OF NAHANT  
NAHANT ANNUAL**

PROJECT:

APPLICATION NO: **1** Distribution to:

PERIOD FROM: **11/1/2018** OWNER

TO: **12/1/2018** ARCHITECT

ARCHITECT'S PROJECT NO: **CONTRACTOR**

ATTENTION: **CONTRACT FOR:**

**AGGREGATE INDUSTRIES-NORTHEAST REGION**

**1715 BROADWAY**

**SAUGUS, MA 01906**

CONTRACT DATE:

**CONTRACTOR'S APPLICATION FOR PAYMENT**

CHANGE ORDER SUMMARY		ADDITIONS	DEDUCTIONS
Change orders approved in previous months by owner			
TOTAL			
Approved this month			
Number	Date Approved		
TOTALS			

Application is made for Payment, as shown below, in connection with the Contract. **Continuation Sheet, AIA Document G703,** is attached.

The present status of the account for this Contract is as follows:

<b>ORIGINAL CONTRACT SUM</b> .....	<b>\$161,345.00</b>
Net change by Change Orders .....	\$ -
<b>CONTRACT SUM TO DATE</b> .....	<b>\$ 161,345.00</b>
<b>TOTAL COMPLETED &amp; STORED TO DATE</b> .....	<b>\$165,299.40</b>
(Column G on G703)	
<b>RETAINAGE</b> 5% .....	<b>\$ 8,264.97</b>
or total in Column I on G703	
<b>TOTAL EARNED LESS RETAINAGE</b> .....	<b>\$ 157,034.43</b>
<b>LESS PREVIOUS CERTIFICATES FOR PAYMENT</b> .....	<b>\$0.00</b>
<b>CURRENT PAYMENT DUE</b> .....	<b>\$ 157,034.43</b>
<b>BALANCE TO FINISH</b> .....	<b>\$ 4,310.57</b>

The undersigned Contractor certifies that to the best of his knowledge, information and belief the Work covered by this application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by him for work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment is shown herein is now due.

**CONTRACTOR: Aggregate Industries, Inc.**

By:  Date: **12/6/18**

APPROVED By: **RESIDENT ENGINEER - TOWN OF NAHANT** Date: \_\_\_\_\_

**CONTINUATION SHEET**

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification is attached.  
 In tabulations below, amounts are stated to the nearest dollar.  
 Use Column I on contracts where variable retainage for line items may apply.

APPLICATION NUMBER:  
 APPLICATION DATE:  
 PERIOD FROM: 11/1/2018  
 TO: 12/1/2018

ARCHITECT'S PROJECT NO.:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D PREVIOUS APPLICATIONS		E WORK COMPLETED		F This Application stored materials (not in D or E)	G TOTAL COMPLETED AND STORED TO DATE (D+E+F)	H BALANCE TO FINISH TO FINISH (C-G)	I RETAINAGE
			PREVIOUS APPLICATIONS	WORK COMPLETED	work in place	% (G/C)				
1	BIT CONC TYPE I	\$96,720.00	-	\$109,116.80	\$109,116.80	113%				\$5,455.84
2	HANDWORK	\$3,750.00	-	\$0.00	\$0.00	0%				\$0.00
3	BIT CONC BERM OVER 25 FT	\$1,500.00	-	\$0.00	\$0.00	0%				\$0.00
4	BIT CONC BERM UNDER 25 FT	\$2,000.00	-	\$0.00	\$0.00	0%				\$0.00
5	COLD PLANING	\$36,500.00	-	\$40,602.60	\$40,602.60	111%				\$0.00
6	STRUCTURES ADJUSTED	\$16,250.00	-	\$10,400.00	\$10,400.00	64%				\$2,030.13
7	GATE BOX ADJUSTED	\$4,625.00	-	\$5,180.00	\$5,180.00	112%				\$259.00
<b>TOTAL</b>		\$161,345.00	\$0.00	\$165,299.40	\$165,299.40	102%				\$8,264.97

AGGREGATE INDUSTRIES  
CONTRACTOR PAYMENT REQUISITION

TO: TOWN OF NAHANT  
NAHANT ANNUAL

JOB #: 40082  
DESCRIPTION: TOWN OF NAHANT

CONTRACT #  
CONTRACT VALUE

161,345.00

ESTIMATE #: 1  
THRU: 12/1/2018

ITEM #	DESCRIPTION	CONTRACT QTY.	UNIT OF MEASURE	UNIT PRICE	QUANTITY THIS ESTIMATE	QUANTITY TO DATE	PERIOD TO DATE \$\$	JOB TO DATE \$\$
1	BIT CONC TYPE I	930.00	TON	\$ 104.00	1,049.20	1,049.20	\$ 109,116.80	\$ 109,116.80
2	HANDWORK	25.00	TON	\$ 150.00	0.00	0.00	\$ 0.00	\$ 0.00
3	BIT CONC BERM OVER 25 FT	100.00	LF	\$ 15.00	0.00	0.00	\$ 0.00	\$ 0.00
4	BIT CONC BERM UNDER 25 FT	100.00	LF	\$ 20.00	0.00	0.00	\$ 0.00	\$ 0.00
5	COLD PLANING	10,000.00	SY	\$ 3.65	11,124.00	11,124.00	\$ 40,602.60	\$ 40,602.60
6	STRUCTURES ADJUSTED	50.00	EA	\$ 325.00	32.00	32.00	\$ 10,400.00	\$ 10,400.00
7	GATE BOX ADJUSTED	25.00	EA	\$ 185.00	28.00	28.00	\$ 5,180.00	\$ 5,180.00

PREPARED BY: COMMENTS:

IRON  
MONGEAU

QUANTITY HASH	ITEM HASH	THIS PERIOD	JOB TO DATE
12,233.200	0.000	\$ 165,299.40	\$ 165,299.40
		(\$ 264.97)	(\$ 264.97)
		\$ 157,034.43	\$ 157,034.43
		\$ 0.00	\$ 0.00
		\$ 157,034.43	\$ 157,034.43

GROSS WORK TO DATE  
RETAINAGE %  
GROSS DUE  
LESS PREVIOUS PAYMENTS  
LESS CURRENT BACKCHARGES  
NET CHECK

0.05  
\$ 0.00  
\$ 0.00  
\$ 0.00  
\$ 157,034.43