# Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

Cast Iron/Bare Steel Replacement Program Results Fiscal Year 2019

April 15, 2019

Submitted by:



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#### **INTRODUCTION**

Pursuant to the settlement agreement approved by the New Hampshire Public Utilities Commission (the "Commission") as part of the National Grid/KeySpan merger in Docket No. DG 06-107 and the settlement agreement as part of the Liberty acquisition of EnergyNorth in Docket No. DG 11-040 (the "Settlement Agreement") approved by Order No. 25,370, Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities ("Liberty" or the "Company") submits the results of the Cast Iron Bare Steel ("CIBS") Replacement Program for fiscal year 2019 (April 1, 2018, to March 31, 2019). As required by the Settlement Agreement, the Company submits the following information in connection with this report, the pre-filed Joint Testimony of Shawn D. Furey and Brian R. Frost, and the Testimony of David Simek and Catherine A. McNamara: (1) A report detailing the actual amount of capital investments made in accordance with implementing the CIBS program during fiscal year 2019 (Attachment SDF/BRF-2 to Joint Furey-Frost Testimony); (2) a calculation of the incremental revenue requirement associated with placing the capital investments into rate base above a base spending level of \$533,119 (Attachment DBS-CAM-1 to Simek/McNamara Testimony); (3) a description of variances between actual results and the original plan; and (4) a request for a permanent increase in base distribution delivery rates in the amount of \$1,321,114 effective for usage on and after July 1, 2019.

#### **SECTION 1: ACTUAL CAPITAL EXPENDITURES**

Actual capital expenditures incurred during implementation of the CIBS program for fiscal year 2019 are detailed in Attachment SDF/BRF-2 to the Furey/Frost Testimony. Through a series of technical sessions that began in 2008, the Commission Staff and the Company have

agreed that the capital investment amounts to be included for recovery under CIBS may include

all prudently incurred direct and indirect<sup>1</sup> costs associated with: (i) replacement or

abandonment<sup>2</sup> of cast iron and bare steel mains, including replacement of existing pipe with

replacement pipe of the same size,<sup>3</sup> with recovery for the costs of "upsizing" the pipe allowed

only when specifically justified;<sup>4</sup> (ii) replacement or abandonment of cast iron or bare steel

service lines directly connected to bare steel or cast iron main replacement projects; and (iii) tie

over of connected service lines not replaced or abandoned as part of a cast iron bare steel main

replacement project.

Categories of costs that may not be included for recovery under CIBS include: (i)

replacement or abandonment of plastic main; (ii) replacement or abandonment of coated steel

main, regardless of vintage, unless approved by the Safety Division of the Commission; (iii)

replacement, abandonment, or reconnecting of plastic or coated steel services that were

connected to existing cast iron or bare steel main replacement projects; (iv) the differential in

cost to replace existing cast iron or bare steel mains with pipe of a diameter that is greater than

the existing main and the cost to replace that main with a pipe that is larger than the existing

main, unless specifically justified; (v) relocation of customer meters from inside to outside; (vi)

random cast iron or bare steel service replacements not connected to a cast iron or bare steel

main replacement project; (vii) carryover costs in aggregate exceeding 5% of the approved

<sup>1</sup> Indirect costs mean overheads such as pension, OPEBs and other fringe benefits, payroll taxes, material handling costs and other general & administrative expenses that are loaded on all labor and material transactions. Categories of costs that may not be included for recovery under the plan include costs related to CIBS planning

(other than normal engineering and project planning), reporting and filing. <sup>2</sup> For purposes of ii and iii, abandonments such as mains that are not servicing a customer via a service will not

be allowed. Other abandonments will be considered by Staff on a case by case basis.

<sup>3</sup> 3-inch pipes, which are no longer standard size, will be routinely replaced with 4-inch pipes.

<sup>4</sup> See Settlement Agreement in DG 11-040, Attachment J, section (20) n.

estimated total expenditures under the CIBS program for the construction year, unless approved

by the Safety Division; and (viii) replacements made under the Cast Iron Encroachment Policy

are not eligible for accelerated rate recovery in the Cast Iron/Bare Steel Program unless a special

circumstance is approved by the Safety Division.

On January 4, 2018, the Company made its proposed FY 2019 CIBS program filing

with the Commission. On August 27, 2018, the filing was reviewed with Staff for project

selection and scope.

The FY 2018 carryover costs that were captured within the FY 2019 program that are

potentially recoverable under CIBS rates totaled \$3,593,321. Under the Settlement Agreement,

the Company cannot recover through the CIBS program "carryover costs in aggregate

exceeding 5% of the approved estimated total expenditures under the CIBS program for the

construction year, unless approved by the Safety Division." The estimated total cost associated

with completed FY 2019 projects is \$15,574,776, resulting in a 5% cap of \$778,739 of

allowable carryover cost. The Company is seeking the revenue requirement associated with

FY 2018 carryover costs above the allowable carryover cost cap as part of this filing.

Line 73 column BE of Attachment SDF/BRF-2 shows the actual recoverable

expenditures of the FY 2019 projects, totaling \$12,827,024 (including carryover costs above

the 5% cap). After removing from the actual expenditures the CIBS base amount of \$533,119

in accordance with the terms of the Settlement Agreement, the total incremental expenditures

to be included in rate base is \$12,293,905. Appendix A to this report is the Condition Bare

Steel Main Replacement Program – Sample Analysis Report for FY 2019. This report contains

photographs and descriptions of various pipe segments removed and catalogued as part of the

FY 2019 CIBS program.

SECTION 2: CALCULATIONS OF INCREMENTAL REVENUE REQUIREMENT

In this filing, Liberty is seeking recovery in rates of the incremental revenue requirement

associated with an additional \$12,293,905 of CIBS recoverable capital investments. As set

forth in Attachment DBS/CAM-1, page 1 to the Simek/McNamara Testimony, the revenue

requirement associated with the CIBS cumulative capital expenditures is \$4,849,574 (line

35(k)) with a corresponding revenue deficiency of \$1,321,114 (line 41 (k)). Consistent with

prior delivery rate increases for the CIBS program, the Company proposes to apply the increase

pro rata across all customer classes. Attachment DBS/CAM-1, page 4 to the Simek/McNamara

Testimony also provides the annual bill impacts for an average residential customer and

commercial customers in rate classes G-41, G-42, and G-52. Attachment DBS/CAM-2 is a

computation of the cumulative revenue requirement associated with the CIBS program since its

inception in FY 2009.

SECTION 3: DIFFERENCES BETWEEN INITIAL ESTIMATED EXPENDITURES

AND FISCAL YEAR-END ESTIMATED EXPENDITURES

The Company's FY 2019 CIBS Plan provided for the replacement or abandonment of

12.09 miles of cast iron and bare steel pipe at an estimated cost of \$17,567,439. As shown on

Attachment SDF/BRF-2 (line 40 column AJ), the Company eliminated 9.91 miles of cast iron

and bare steel at a cost of \$16,702,994 (line 39, column BL). A reconciliation of the total costs

to the total recoverable costs is shown in the table on the following page:

|--|

		<u>Reference</u>
Actual Loaded Costs	\$16,702,994	line 39, column BL
FY 2018 carry-over costs	\$3,593,321	line 70, column BE
Less: Expected FY 2019 carry-over costs	-\$5,089,745	line 39, column BG
Non-recoverable main costs	-\$656,830	line 39, column BA
Non-recoverable service costs	-\$1,722,716	line 39, column BB
Total Recoverable Costs	\$12,827,024	line 73, column BE

Details of the variances between estimated and actual costs by project are shown in Attachment SDF/BRF-2 columns BK through BN. Overall, the actual costs of the CIBS projects completed in FY 2019 were 7% higher than budget.<sup>5</sup>

# SECTION 4: STATUS OF THE LITIGATION BETWEEN LIBERTY AND THE CITIES OF CONCORD AND MANCHESTER

In 2010, National Grid filed actions in Hillsborough and Merrimack County Superior Courts against the Cities of Manchester and Concord seeking injunctions against enforcement of regulations concerning street opening permit fees ("degradation fees"), as well as requests for declaratory judgments invalidating such fees. The matters were later consolidated in the Merrimack County Superior Court.

After an appeal of pretrial motions that was resolved in 2012, a trial in 2015, and another appeal, the Supreme Court issued an order in 2017 that upheld both the ordinances and their penalty provisions, effectively making the Company responsible for all past and future degradation fees charged.

<sup>&</sup>lt;sup>5</sup> Note that the budget-to-actual variance of all costs related to cast iron and bare steel, including the costs within this program, costs excluded from the program, and carryover costs, was 1%. (\$20,083,073 versus \$20,296,315). Attachment SDF-BRF-2, columns BK, BL, and BM, row 73.

For FY 2018 and onward, the Company has included degradation fees in its proposed

CIBS rates. Accrued Manchester degradation fees from prior year CIBS filings were included

in the most recent distribution rate case, Docket No. DG 17-048. The Company paid the

Concord degradation fees while the case was pending, so no adjustment was necessary.

**SECTION 5: TAX DEDUCTION FOR REPAIR EXPENSES** 

In 2009, the Internal Revenue Service issued guidance, under Internal Revenue Code

Section 162, regarding the eligibility of certain repair and maintenance expenses for an

immediate deduction for income tax purposes, but capitalized by the Company for book

purposes. This tax deduction has the effect of increasing deferred taxes and lowering the

revenue requirement that customers will pay under the CIBS program. Repairs resulting in the

replacement of less than 20 percent of an original unit of property qualify for a repairs tax

deduction. A gas company's gas subsystem is considered a "unit of property" for the purposes

of the repairs tax deduction. As explained in the Simek/McNamara Testimony, projects

included in the CIBS program are expected to qualify as repairs; thus, when computing the

revenue requirement, the Company reflects a tax deductibility of 100 percent for all CIBS jobs.

SECTION 6: CAST IRON/BARE STEEL REPLACED UNDER MUNICIPAL

PROJECTS AND THE CAST IRON ENCROACHMENT POLICY

In FY 2019, the Company replaced approximately 458 feet of cast iron through the Cast

Iron Encroachment Policy and approximately 14,793 feet of cast iron and bare steel through

municipal projects, totaling to approximately 2.89 miles of replacement. Combined with the

9.91 miles replaced through the CIBS program as discussed above, this amounts to a total of

approximately 12.8 miles of cast iron and bare steel replacement in FY 2019. A yearly

summary of cast iron and bare steel replacement through municipal projects and encroachments can be seen below:

	Footage of Cast Iron	/Bare Steel Replaced
Fiscal Year	Municipal Projects	Encroachments
2008-2009	10,980	171
2009-2010	19,920	28
2010-2011	11,649	62
2011-2012	17,791	40
2012-2013	12,524	53
2013-2014	19,118	55
2014-2015	10,587	169
2015-2016	12,206	248
2016-2017	15,663	30
2017-2018	15,570	30
2018-2019	14,793	458
Total Footage	160,801	1,344
Total Mileage	30.45	0.25

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# APPENDIX A: FY 2019 CONDITION BARE STEEL MAIN REPLACEMENT PROGRAM – SAMPLE ANALYSIS

Over the course of the FY 2019 construction season, bare steel pipe and soil samples were collected from the CIBS main replacement program. Each sample was sand blasted to expose the pipe down to the bare metal and will be provided for visual representation. Soil samples were taken as close to the pipe samples as possible in an effort to retrieve native soil. Chemical testing was conducted to determine the existing pH, chloride, sulfide, and sulfate levels. Microbiological testing for Acid Producing Bacteria (APB) and Sulfate Reducing Bacteria (SRB) were performed as well. Both chemical and microbiological tests were conducted as soon as possible. The table below shows the threshold of bacteria levels based on the results of bacterial colonies per milliliter.

Number of Positive Bottles	Bacteria Colonies/ml	Reporting Value Colonies/ml	Bacteria Level
0	< 1 - 10	< 10	Low
1	10	10	Low
2	10 - 100	100	Medium
3	100 - 1000	1,000	Medium
4	1,000 - 10,000	10,000	High
5	> 10,000 - 100,000	100,000	High

Positive APB and SRB vials with corresponding reporting values.

Details and testing results for the four pipe and soil samples collected are summarized on the following pages:

Work Order & Project:	401811-37618 - 1-132 Allds St, Cro	wn St, and Proctor St									
Sample Location:	In Front of 8 Mulvanity St	In Front of 8 Mulvanity St									
Pipe Sample Details:	2" Bare Steel, Standard Wall (0.154'	"), Low Pressure, Installed in 1940									
Soil Sample Details:	Medium Brown Wet Sandy Soil										
Test Date:	11/6/2018										
	<b>Soil Testing Results</b>										
	Quantitative Value	Qualitative Value									
pH:	6	-									
Chloride (mg/l):	0	None									
<b>Sulfide</b> (mg/l):	< 5	Not Appreciably Present									
<b>Sulfate</b> (mg/l):	<200	Low									
<b>APB Level</b> (Colonies/ml):	100,000	High									
<b>SRB Level</b> (Colonies/ml):	10	Low									
Cample Conditions Hagyy corre	saion nitting array anting ning 1000/ rrall l	accin anacc									



Work Order & Project:	401711-37640 - 1-21 Fowell Ave, I	Lawndale Ave, and Park Ave									
<b>Sample Location:</b>	In Front of 21 Fowell Ave	In Front of 21 Fowell Ave									
Pipe Sample Details:	2" Bare Steel, Standard Wall (0.154	"), Low Pressure, Installed in 1924									
Soil Sample Details:	Light Brown Sandy Soil										
Test Date:	8/24/2018										
	Soil Testing Results										
	Quantitative Value	Qualitative Value									
pH:	7	-									
Chloride (mg/l):	0	None									
Sulfide (mg/l):	< 5	Not Appreciably Present									
Sulfate (mg/l):	200	Low									
<b>APB Level</b> (Colonies/ml):	10	Low									
SRB Level (Colonies/ml):	<10	Low									



Work Order & Project:	401811-37619 - 171-185 Concord S	t, Bell St, and Damon Ave
Sample Location:	In Front of 37 Bell St	
Pipe Sample Details:	2" Bare Steel, Standard Wall (0.154	"), Low Pressure, Installed in 1954
Soil Sample Details:	Light Brown Sandy Soil	
Test Date:	2/19/2019	
	Soil Testing Results	
	Quantitative Value	Qualitative Value
pH:	7	-
Chloride (mg/l):	0	None
<b>Sulfide</b> (mg/l):	< 5	Not Appreciably Present
Sulfate (mg/l):	<200	Low
APB Level (Colonies/ml):	1.000	Medium

**SRB Level** (Colonies/ml): 10,000 High Sample Condition: Heavy corrosion pitting over entire pipe, 100% wall loss in pits. 401811-37619 171-185 Concord St, Bell St, and Damon Ave

Work Order & Project:	401811-37623 - 126-226 Pine St, Love	ewell St, and Palm St										
Sample Location:	Between 22 and 24 Lovewell St	Between 22 and 24 Lovewell St										
Pipe Sample Details:	2" Bare Steel, Standard Wall (0.154"),	Low Pressure, Installed in 1957										
Soil Sample Details:	Very Light Brown Sandy Soil											
Test Date:	2/19/2019											
	<b>Soil Testing Results</b>											
	Quantitative Value	Qualitative Value										
pH:	6	-										
Chloride (mg/l):	0	None										
Sulfide (mg/l):	50	Low										
Sulfate (mg/l):	<200	Low										
APB Level (Colonies/ml):	100	Medium										
SRB Level (Colonies/ml):	<10	Low										
0 1 0 1141 11												

Sample Condition: Heavy corrosion pitting over entire pipe, 100% wall loss in pits. 401811-37623 126-226 Pine St, Lovewell St, and Palm St 126-226 Pine St, Lo 126-226 Pine St, Loveweil St, and Fairn Sc

#### **Conclusions/Recommendations:**

- (1) Bare steel cutouts locations should continue to be identified on designs and reference dimensions to leak repair locations. This is to ensure a piece of poor condition bare steel pipe is collected.
- (2) A representative should be on site to verify that the pipe sample is acceptable and that the soil taken is valid for analysis. The soil sample should be tested as soon as possible. Testing the soil when it is "fresh" will provide more accurate results as it relates to the existing chemical and microbiological conditions at each location.
- (3) The criteria used for the segment selection process should continue to include references to deep pitting and/or poor condition. This data has proven to be useful and indicative of pipe that is in need of replacement.
- (4) Special attention should be paid to locations where bare steel segments are to remain in service and the pH is highly acidic or highly alkaline.
- (5) Special attention should be paid to locations where bare steel segments are to remain in service and high levels of bacteria are recorded.
- (6) MSES Consultants, Inc. Corrosion Products Division recommended incorporating results from sulfide and sulfate levels as it relates to the aggressiveness of potential corrosion. Special attention should be paid to locations where bare steel segments are to remain in service and high levels sulfide and/or sulfate are recorded.

Page 1 of 2

A	В	C D	E	F	G	Н	I	J	K	L M	N	O P	Q R	S	T	U	V	W	X	Υ	Z A	A AB	AC
						System				Bare Coates	4	Relay	Abandon	Evoluded DL &				Estimated	Total Cost	Total Cost		,Estimated	
Priority \	Vork Order #	Town Street	From	То	Material	Pressure	Exst Diameter (Inche	s) YOI	Relay Diameter	Bare Coated Steel Steel	Services	Total Footage Services (Inc. PL &	New Main Only Leak Footage Prone	CS Relay		st Estimate (Direct)	Cost Estimate (Loaded)	Degradation	Estimate	Estimate	oading Cost	Recoverable Co	st Comments
1		code				(PSIG)				Services Service	es	CS)	Footage	Footage	Tootage	(Direct)	(Loadeu)	Fee	(Direct)	(Loaded)	/0 (LOA)	(Loaded)	
2 NORTHERN	DIVISION																						
		CCD 66-89 S State St	Laurel St	Downing St	CI	LP	10"	1892	8" LP for entire scope.  6" 60# on N State St. 8" LP on Pleasant St and S State St. Abandon Centre	0 0	15	15 545		0		\$149,748	\$194,416	\$6,840	\$156,588	, ,	29% \$369		Uncompleted 2017 project.
4 17.76 4	01711-37605 C	CCD 8-42 Centre St, N State St & Park St	N Main St	Pleasant St	CI	LP, LP to 60	4", 6", 8", 10"	1892, 1893, 1894, 1938	St.	8 9	7	24 2,460	570	15	3,045	\$502,368	\$659,200	\$28,680	\$531,048	\$687,880	30% \$279	9.63 <b>\$570,087</b>	Uncompleted 2017 project.
5 10.33 4	01711-37607 C	CCD 59-105 Pleasant St & Pine St	Liberty St	Spring St	CI	LP to 60	3", 4", 6", 8"	1892, 1893, 1934	6" 60# main on Pleasant St. 2" 60# main on Pine St.	24 3	23	50 3,325	125 375	10	3,835	\$467,239	\$617,254	\$40,840	\$508,079	\$658,094	30% \$190	).75 <b>\$549,452</b>	Uncompleted 2017 project.
6 7.10 4	01811-37628 C	CCD 13-42 Rockingham St	Broadway	Fellows St	CI	LP	4" & 6"	1931, 1956	6" LP for entire scope.	10 0	3	13 850		25	850 \$	\$147,731	\$194,801	\$10,300	\$158,031	\$205,101	30% \$243	<b>\$188,744</b>	Partially uncompleted 2017 project.
5.64	01811-37602 C	CCD Rd, and Rum Hill Rd		Rd Rum Hill Rd	CI	LP	4", 1.25"	1911, 1926, 1927, 1928, 1935, 1938, 19	8" LP on Kensington St, 6" LP on School St, abandon Pleasant St, 4" LP for remainder.	18 1	28	47 5,205	2,150	40	7,355	\$668,900	\$872,679	\$37,500	\$706,400	\$910,179	29% \$174	<b>\$732,483</b>	City water project and paving this area.
3.77	01811-37601 C	ccb					. ,	1896,1906, 1925, 1926		4 1	6	11 1,180		0	1,180	\$155,174	\$204,857	\$14,140	\$169,314	\$218,997	29% \$18!	5.59 <b>\$184,156</b>	City water project on Westbourne Rd.
9 Northern Divi		15-30 Westbourne Rd, Park Ridge Rd, and Ridge Rd	School St	Ena	CI	LP	4"		4" LP for entire scope.	64 14	82	160 13,565	125 3,095	90	16,810 \$2	2,091,160	\$2,743,206	\$138,300	\$2,229,460	\$2,881,506	29% \$210	0.48 \$2,375,865	
10											•	Total Miles 2.57	0.02 0.59		3.18		•	•			•	•	•
11 <b>CENTRAL DI</b> 12 <b>25.07</b> 4		MNC 262-302 Main St, and Schuyler St	Schuyler St	Sullivan St	CI	LP	6", 4"	1911, 1921	6" LP on Main St, 4" LP on Schuyler St.	3 2	6	11 390		0	390 \$	\$108,853	\$144,778	\$15,200	\$124,053	\$159,978	29% \$410	0.20 <b>\$118,454</b>	Paving Main St.
		MNC 237-356 Amory St, Reed St, and Montgomery St	Reed St	Hevey St	CI	LP	6", 4"	1907	6" 60# on Amory St, 4" 60# on Kelley St, 6" LP remainder.	13 2	12	27 1,450		35	1,450	\$316,472	\$420,928	\$56,450	\$372,922	\$477,378	28% \$329	9.23 <b>\$356,043</b>	Paving Amory St.
18.51 4	01711-37617 M	MNC 69-152 Harrison St, Beech St, and Hazel St	Pine St	Ash St	CI	LP	4" & 8"	1906/1921/1922/1924	8" LP on Harrison St. 4" LP on Beech St and Hazel St.	10 3	10	23 1,540		0	1,540 \$	\$260,249	\$346,835	\$57,400	\$317,649	\$404,235	27% \$262	2.49 \$297,825	City paving section of Harrison St in 2018. Joint leaks
L4		MNC   503-573 Maple St	Lowell St	Pearl St	CI	LP	6"	1894	4" 60# on Maple St, abandon Lowell St intersection.	5 3		14 1,181	80	10		\$180,583	\$240,761	\$37,400	\$218,468		28% \$23		and broken main. Paving Maple St.
16 13.49 4	01811-37611 M	MNC 550-615 Pine St, Harrison St, and Brook St	Prospect St	Blodget St	CI	LP	12", 10", 8", 4"	1912, 1925, 1927	12" LP on Harrison St, 8" PL on Pine St, 8"/6"/4" LP on Brook St	17 2	12	31 2,060	30	0	2,060	\$429,531	\$558,884	\$78,400	\$507,931	\$637,284	25% \$309	9.36 <b>\$491,134</b>	Paving Pine St.
		MNC 139-229 Young St, Taylor St, Norris St, and Ainsworth Ave	Taylor St	Hamblet St	CI	LP	4"	1894, 1899, 1919, 1926	4" LP on Norris St, 6" LP remainder.	14 1	19	34 1,965		0	,	\$337,145	\$448,071	\$74,165	\$411,310		27% \$26!		Paving Young St. Active grade 3 on Taylor St.
.8		MNC 686-1091 Valley St, Cypress St, and Taylor St	Belmont St	Massbesic St	CI	LP	6", 4", 3"	1895, 1901, 1905, 1906, 1945	Abandon Taylor St, 6" LP, 4"/2" 60# on Valley St, 8" LP Cypress St.	19 6	35	60 3,700	380	250		\$554,439	\$736,881	\$134,900	\$689,339		26% \$23!		Paving Valley St. Active grade 3 on Cypress St.
		MNC   677-759 Pine St, N Adams St, and Bay St  MNC   266-507 Concord St, Lincoln St, Malvern St, and Belmont St	Salmon St Maple St	Webster St Beacon St	CI	LP LP	10", 8", 4" 6", 4"	1900, 1928, 1930 1892, 1896, 1912, 1925, 1933, 1934	12" LP on Pine St, 8" LP on N Adams St, 4" LP on Bay St 6" LP on Concord St, 4" LP remainder.	11 3 25 7	19 31	33 1,685 63 3,715		0 60	_ · _ ·	\$410,789 \$634,212	\$535,310 \$843,564	\$65,100 \$141,600	\$475,889 \$775,812	· ,	26% \$350 27% \$269		Paving Pine St. Paving Concord St.
		MNC 1001-1202 Hayward St, Prout Ave, Riley Ave, Sunnyside St, and		Mammouth Ro	Rd CI	LP to 60	6", 4"	1900, 1909, 1911, 1913, 1923, 1928	Abandon Hayward Ave, 2" 60# remainder.	31 13	27	71 2,800	1,755	120			\$583,966	\$77,400	\$514,476		29% \$230		Numerous leaks on Hayward St.
21		Knowlton St  MNC 593-703 Maple St, Myrtle St, Prospect St, and Brook St	Orange St	Blodget St	CI	LP	6". 4"	1894, 1899, 1928	6" LP on Maple St, 4" LP remainder, abandon as shown.	9 12		26 1.380	85 1.150	0			\$398,897	\$60,350	\$360,768		27% \$313	, ,	,
Central Division		wine 1999 709 Mapie St, Myrtie St, Frospect St, and Brook St	Orange 3t	Diouget 3t	Ci	LI	0,4	1034, 1033, 1320	o Er offinalitation, abandon as snown.		182	393 21,866	85 3,365		25,316 \$3			. ,				5.97 \$4,338,425	5 .
24 SOUTHERN	DIVISION											Total Miles 4.14	0.02 0.64	0.09	4.79								
		NAS 69-85 Lock St, Lucier St, Lessard St, and Aetna Ct	Tolles St	Chandler St	CI. BS	LP	6", 4", 2"	1911, 1915, 1919, 1925	8" PL LP on Lock St. 4" PL LP on Lessard St and Lucier St.	14 4	7	25 1,430		50	1,430	\$460,946	\$620,439		\$460,946	\$620,439	35% \$433	3.87 <b>\$535,921</b>	3 broken main and 8 joint leaks.
26		, , ,	Tolles 3t	Chandler 3t	CI, B3	Lr			8" LP on Allds St, 6" LP on Crown St, 4" LP on Proctor St, 4" LP on Merrill		•					,	, ,		-	. ,		. ,	
27		NAS 1-132 Allds St, Crown St, and Proctor St	E Hollis St	Fifield St	CI, BS	LP	6", 4", 2"	1900, 1912, 1916, 1919, 1924, 1940	St.	31 14	J-	76 5,705		260		1,726,196				, , - ,-	33% \$402		Paving Allds St.
		NAS 1-68 Lock St, and Kendrick St NAS 106-128 Vine St, Chestnut St, and W Otterson St	Granite St Lake St	Tolles St W Otterson St	t CI. BS	LP LP	6", 4" 4". 2"	1904, 1905, 1906, 1914 1901, 1907, 1912, 1919, 1920, 1923, 19	6" LP on Lock St, 4" LP on Kendrick St.  226,6" LP on Chestnut St, 4" LP remainder.	7 3	5 8	28 1,760 18 1,495		70 10	1,760 \$ 1,495 \$		\$811,519 \$511,126		\$611,665 \$384,153		33% \$46: 33% \$34:		Paving Lock St, Granite St, and Orange St.  Paving Chestnut St.
0 10.18 4	01711-37640 N	NAS 1-21 Fowell Ave, Lawndale Ave, and Park Ave	Main St	End	CI, BS	LP	4", 2"	1923, 1924, 1927, 1930	4" LP entire scope.	15 3		30 1,845		50	1,845	\$460,272	\$614,726		\$460,272	\$614,726	34% \$33	3.18 <b>\$518,641</b>	Brought forward from FY2018. Paving Fowell Ave.
		NAS 171-185 Concord St, Bell St, and Damon Ave	Rancourt St	Damon Ave	CI, BS	LP	6", 4", 2"	1930, 1954	6" LP on Concord St, 4" LP remainder.			27 2,410	50	405			\$524,314		\$395,073		33% \$21		Paving Damon Ave.
8.20 4	J1811-3/623 N	NAS 126-226 Pine St, Lovewell St, and Palm St	Acton St	Gilman St	CI, BS	LP	4", 2"	1905, 1911, 1912, 1914, 1918, 1920, 19	952, 4" LP north of Lake St, 6" LP south of Lake St.	24 4	31	59 3,190		105	3,190 \$	\$949,469	\$1,268,548		\$949,469	\$1,268,548	34% \$39	7.66 <b>\$1,049,100</b>	Paving Pine St and Palm St.
7.14 4	01711-37645 N	NAS 1-17 Warren St	Bridge St	End	CI	LP	16"	1909	12" CS LP for entire scope.	6 0	0	6 315			315 \$	\$164,727	\$213,695		\$164,727	, ,	30% \$678	\$ <b>205,845</b>	2 joint leaks. City is relaying sewer.
		NAS 1-40 Courtland St, Webster St, and Ayer St		t Concord St	CI, BS	LP	4", 2"	1903, 1909, 1919, 1920,1939	2" PL 60# on Courtland St and Ayer to west. Abandon remainder.	17 2	14	33 1,210	1,080	15			\$493,264		\$368,059	\$493,264	34% \$40		Paving Ayer St.
35		NAS 65-125 Concord St	Hills Ferry Rd	Hall Ave	CI	LP	6"	1930	8" LP on Concord St. Abandon Hills Ferry Rd at Concord St regulator pit.	6 9	19	34 4,195		115			\$1,275,956		\$961,654		33% \$304		Paving Concord St.
Southern Divi																6 102 211	\$8 628 208		\$6.482.214	¢8 628 208	220/ 620-	77   67 474 467	
	ion Totals									154 47		336 22,125 Total Miles 4.19			24,685 \$6 4.68	0,402,214	<b>70,020,200</b>		<del>70,402,214</del>	30,020,200	33% \$397	\$7,171,157	
8	ion Totals									154 47		336 22,125 Total Miles 4.19			24,685 \$6 4.68	0,402,214	70,020,200		70,402,214	38,028,208	33%   \$397	.// \$7,1/1,15/	
FY2019 CIBS F										375 115			0 0.21	0.13	4.68					\$17,567,439			
FY2019 CIBS F											399	Total Miles 4.19  889 57,556	210 7,590	1,240	4.68								
<b>FY2019 CIBS F</b>											399	Total Miles 4.19	210 7,590	0.13	4.68								
0		osts									399	Total Miles 4.19  889 57,556	210 7,590	1,240	4.68								
1 Estimated FY2	018 Carry Over Co	own			Makadal	System	Furt Diameter (In the	NO.			399	Total Miles 4.19  889 57,556	210 7,590	0.13 1,240 0.23	4.68 66,811 \$1 12.65	12,543,140		\$937,150 Estimated	\$13,480,290 Total Cost			\$13,885,447	
1 Estimated FY2	ogram Totals  O18 Carry Over Co	osts Town Code Street	From	То	Material		Exst Diameter (Inche	s) YOI			399	Total Miles 4.19  889 57,556	210 7,590	0.13 1,240 0.23	4.68 66,811 \$1 12.65	12,543,140	\$16,630,289	\$937,150	\$13,480,290	\$17,567,439		.74 \$13,885,447	
Estimated FY2	O18 Carry Over Co	Code Street CCD 25-50 Ridge Rd, CCD & Franklin St	Auburn St	To  EOM FOM	Material CI	Pressure (PSIG)	4"	1928, 1939			399	Total Miles 4.19  889 57,556	210 7,590	0.13  1,240  0.23  Project Completion Date 12/21/2017	4.68  66,811 \$1  12.65  Total Footage  1,400	st Estimate (Direct) \$67,234	\$16,630,289  Cost Estimate (Loaded) \$87,404	\$937,150  Estimated Degradation	\$13,480,290  Total Cost Estimate (Direct) \$67,234	\$17,567,439  Total Cost Estimate (Loaded) \$87,404		Estimated Recoverable Co (Loaded) \$87,404	
Estimated FY2  V 2  3  4  4  4  4	70gram Totals  018 Carry Over Co.  Vork Order #  01711-37602 C. 01711-37603 C. 01711-37604 C.	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave	Auburn St S Main St South St	Redwood Ave		Pressure (PSIG) LP LP LP, LP to 60	4" 4", 6" 1.25", 4"	1928, 1939 1954 1923			399	Total Miles 4.19  889 57,556	210 7,590	0.13  1,240  0.23  Project Completion Date 12/21/2017 7/19/2017 6/27/2017	4.68  66,811 \$1  12.65  Total Footage  1,400  695  400	st Estimate (Direct) \$67,234 \$21,719 \$37,103	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234	\$937,150  Estimated Degradation	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234	
Estimated FY2	70gram Totals  018 Carry Over Co  Vork Order #  01711-37602 C  01711-37603 C  01711-37604 C  01711-37606 C	Code  Street  CCD 25-50 Ridge Rd, CCD & Franklin St  CCD 1-10 Langdon Ave, CCD, S Main St  CCD 53-79 Downing St, CCD, Wheaton Ave  CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St	Auburn St S Main St South St Liberty St	Redwood Ave Merrimack St	CI	Pressure (PSIG) LP LP LP, LP to 60 LP	4" 4", 6" 1.25", 4" 4", 6", 8"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968			399	Total Miles 4.19  889 57,556	210 7,590	0.13  1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 \$	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145	\$937,150  Estimated Degradation	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145	
Estimated FY2  2  3  4  4  5  4  7  4  4  4  5  4  6  7  4  6  7  6  7  7  7  7  7  7  7  7  7  7	70gram Totals  018 Carry Over Cocco  01711-37602 Ccc 01711-37603 Ccc 01711-37604 Ccc 01711-37606 Ccc 01711-37609 Ccc 01711-37610 Ccc	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD	Auburn St S Main St South St Liberty St Rollins St Franklin St	Redwood Ave Merrimack St N State St EOM		Pressure (PSIG)  LP  LP  LP, LP to 60  LP  LP to 60  LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927			399	Total Miles 4.19  889 57,556	210 7,590	0.13  1,240  0.23  Project Completion Date 12/21/2017 7/19/2017 6/27/2017 12/30/2017 5/17/2017 12/6/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224	\$937,150  Estimated Degradation	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334	
Estimated FY2	70gram Totals  018 Carry Over Co.  01711-37602 C.  01711-37604 C.  01711-37606 C.  01711-37609 C.  01711-37610 C.  01711-37611 C.	COD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD	Auburn St S Main St South St Liberty St Rollins St	Redwood Ave Merrimack St N State St	CI	Pressure (PSIG)  LP  LP  LP, LP to 60  LP  LP to 60	4" 4", 6" 1.25", 4" 4", 6", 8"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930			399	Total Miles 4.19  889 57,556	210 7,590	0.13  1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 5/17/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603	\$937,150  Estimated Degradation Fee	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603	
Estimated FY2	70gram Totals  018 Carry Over Cor 01711-37602 Cor 01711-37604 Cr 01711-37606 Cr 01711-37609 Cr 01711-37610 Cr 01711-37611 Cr 01711-37613 Cr 01711-37614 T	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St	CI	Pressure (PSIG)  LP  LP  LP, LP to 60  LP  LP to 60  LP  LP  LP  LP  LP  LP  LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4", 6", 8" 4", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931			399	Total Miles 4.19  889 57,556	210 7,590	0.13  1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 5/17/2017 12/6/2017 11/29/2017 12/11/2017 7/11/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300	\$937,150  Estimated Degradation Fee  \$9,110	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420	
Estimated FY2  2  3  4  4  5  4  6  7  4  8  9  4  1  4  1  4  2  4  4  4  4  4  4  4  4  4  4  4	709ram Totals  7018 Carry Over Co.  701711-37602 C.  701711-37604 C.  701711-37606 C.  701711-37609 C.  701711-37610 C.  701711-37611 C.  701711-37613 C.  701711-37614 T.  701711-37616 M.	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St	CI CI, BS CI CI CI SS CI CI CI CI BS	Pressure (PSIG)  LP  LP  LP, LP to 60  LP  LP to 60  LP  LP  LP to FO	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4", 6", 8"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956			399	Total Miles 4.19  889 57,556	210 7,590	0.13  1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 12/6/2017 11/29/2017 12/11/2017 7/11/2017 10/27/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420	\$937,150  Estimated Degradation Fee	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300	
Estimated FY2	70gram Totals  7018 Carry Over Cor 70cc  701711-37602 Ccc  701711-37604 Ccc  701711-37606 Ccc  701711-37609 Ccc  701711-37610 Ccc  701711-37611 Ccc  701711-37613 Ccc  701711-37614 Tccc  701711-37616 Mccc  701711-37619 Mccc  701711-37619 Mccc  701711-37620 Mcccc  701711-37620 Mcccc  701711-37620 Mccccc  701711-37620 Mccccc  701711-37620 Mccccc  701711-37620 Mcccccc  701711-37620 Mccccccc  701711-37620 Mccccccc  701711-37620 Mccccccc  701711-37620 Mccccccc  701711-37620 Mcccccccc  701711-37620 Mccccccccc  701711-37620 Mcccccccc  701711-37620 Mcccccccc  701711-37620 Mccccccccc  701711-37620 Mccccccccc  701711-37620 Mccccccccc  701711-37620 Mcccccccccccccccccccccccccccccccccccc	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD G5-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St	CI CI, BS CI CI CI SS CI CI CI CI BS	Pressure (PSIG)  LP  LP  LP, LP to 60  LP  LP  LP  LP  LP  LP  LP  LP  LP  L	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4", 6", 8" 4", 6" 4" 3", 4", 6" 4", 6" 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926			399	Total Miles 4.19  889 57,556	210 7,590	0.13  1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 5/17/2017 12/6/2017 11/29/2017 12/11/2017 7/11/2017 10/27/2017 12/15/2017 6/19/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329	\$937,150  Estimated Degradation Fee  \$9,110  \$59,700 \$53,100 \$24,870	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870	
Estimated FY2  2  3  4  4  5  4  6  7  4  8  9  4  4  6  7  4  8  9  4  4  6  7  4  8  9  4  4  6  7  4  8  8  9  9  9  9  9  9  9  9  9  9  9	709ram Totals  7018 Carry Over Cocco 701711-37602 CCcco 701711-37604 CCccco 701711-37606 CCcccccccccccccccccccccccccccccccccc	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 160-411 Calef Rd, MNC	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St re Mitchell St	CI CI, BS CI CI CI SS CI CI CI CI BS	Pressure (PSIG)  LP  LP  LP  LP, LP to 60  LP  LP  LP  LP  LP  LP  LP  LP  LP  L	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4" 4", 6", 8" 4", 6" 4" 3", 4", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929			399	Total Miles 4.19  889 57,556	210 7,590	0.13  1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 12/6/2017 11/29/2017 12/11/2017 7/11/2017 10/27/2017 12/15/2017 6/19/2017 12/28/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 \$	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329 \$263,881	\$937,150  Estimated Degradation Fee  \$9,110  \$59,700 \$53,100 \$24,870 \$116,990	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429	
Estimated FY2   4  4  4  4  4  4  4  4  4  4  4  4	708 Carry Over Co. 707 Order # 707 Cc. 707711-37602 Cc. 707711-37604 Cc. 707711-37609 Cc. 707711-37610 Cc. 707711-37611 Cc. 707711-37611 Cc. 707711-37614 Tc. 707711-37616 M. 707711-37619 M. 707711-37620 M. 707711-37621 M. 707711-37622 M. 707711-37623 M.	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St re Mitchell St Harvard St Union St	CI CI, BS CI CI CI SS CI CI CI CI BS	Pressure (PSIG)  LP  LP  LP  LP, LP to 60  LP  LP  LP  LP  LP  LP  LP  LP  LP  L	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4", 6", 8" 4", 6" 4" 3", 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017  7/19/2017  6/27/2017  12/30/2017  12/6/2017  12/6/2017  12/11/2017  7/11/2017  10/27/2017  12/15/2017  6/19/2017  12/28/2017  12/28/2017  7/21/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 5,1945 2,285	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795	\$937,150  Estimated Degradation Fee  \$9,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665	
Estimated FY2	708 Carry Over Co. 707 Ork Order # 701711-37602 C. 701711-37603 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37614 T. 701711-37614 T. 701711-37619 M. 701711-37619 M. 701711-37620 M. 701711-37621 M. 701711-37621 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M.	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 160-411 Calef Rd, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC, North St & Oak St	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Mitchell St Harvard St	CI CI, BS CI CI CI SS CI CI CI CI BS	Pressure (PSIG)  LP  LP  LP  LP, LP to 60  LP  LP  LP  LP  LP  LP  LP  LP  LP  L	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4" 4", 6", 8" 4", 6" 4" 3", 4", 6" 4", 6" 6" 4", 6" 4", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 12/6/2017 12/6/2017 12/11/2017 7/11/2017 10/27/2017 12/15/2017 12/28/2017 12/28/2017 12/27/2017 12/27/2017 12/27/2017 12/28/2017 12/27/2017 10/24/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 \$\$ 1,945 2,285 2,970 \$\$	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894	\$937,150  Estimated Degradation Fee  \$9,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964	
Estimated FY2	7078 Carry Over Co. 7078 Carry Over Co. 707711-37602 C. 707711-37604 C. 707711-37609 C. 707711-37610 C. 707711-37611 C. 707711-37614 T. 707711-37614 T. 707711-37616 M. 707711-37619 M. 707711-37619 M. 707711-37620 M. 707711-37621 M. 707711-37621 M. 707711-37622 M. 707711-37623 M. 707711-37624 M. 707711-37625 M. 707711-37626 M.	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD G65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC, North St & Oak St MNC 607-655 Chestnut St, MNC & Blodget St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Mitchell St Harvard St Union St Webster St Penacook St Union St	CI CI, BS CI	Pressure (PSIG)  LP LP LP LP, LP to 60 LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4", 6", 8" 4", 6" 4" 3", 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017  7/19/2017  6/27/2017  12/30/2017  12/6/2017  12/6/2017  12/1/2017  7/11/2017  10/27/2017  12/15/2017  6/19/2017  12/28/2017  12/28/2017  12/27/2017  7/21/2017  10/24/2017  11/28/2017  12/22/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 \$\$ 1,945 2,285 2,970 \$\$ 1,190 4,365	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999	\$937,150  Estimated Degradation Fee  \$9,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149	
Estimated FY2	7018 Carry Over Co. 7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37611 C. 701711-37614 T. 701711-37616 M. 701711-37619 M. 701711-37619 M. 701711-37620 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37626 M. 701711-37627 M.	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC, North St & Oak St MNC 607-655 Chestnut St, MNC & Blodget St	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville St Elm St Sagamore St Brook St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Mitchell St Harvard St Union St Webster St Penacook St	CI CI, BS CI	Pressure (PSIG)  LP  LP  LP  LP, LP to 60  LP  LP  LP  LP  LP  LP  LP  LP  LP  L	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 6" 4", 6" 3", 6" 4", 6" 3", 4"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 12/6/2017 11/29/2017 12/11/2017 7/11/2017 10/27/2017 12/15/2017 12/28/2017 12/28/2017 12/27/2017 12/28/2017 12/22/2017 11/28/2017 11/28/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 5,2285 2,970 1,190 4,365 1,300	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258	
Estimated FY2	7018 Carry Over Co. 7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37614 T. 701711-37614 T. 701711-37616 M. 701711-37619 M. 701711-37620 M. 701711-37621 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37626 M. 701711-37627 M. 701711-37628 M. 701711-37628 M. 701711-37628 M.	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD G5-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC, North St & Oak St MNC 607-655 Chestnut St, MNC & Blodget St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St MNC 20-154 S Maple St, MNC & Oakdale Ave MNC 560-604 Beech St, MNC	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St Beacon St S Willow St Bridge St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St te Mitchell St Union St Webster St Penacook St Union St Cass St Cilley Rd Lowell St	CI CI, BS CI	Pressure (PSIG)  LP  LP  LP  LP, LP to 60  LP  LP  LP  LP  60  LP  LP  LP  LP  LP  LP  LP  LP  LP  L	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 6" 4", 6" 3", 4" 4", 8" 4", 8" 4", 8" 4", 6" 3", 4"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926 1915			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 12/6/2017 11/29/2017 12/11/2017 7/11/2017 10/27/2017 12/15/2017 6/19/2017 12/28/2017 12/28/2017 12/27/2017 12/28/2017 12/28/2017 11/28/2017 11/28/2017 11/28/2017 11/8/2017 11/8/2017 11/8/2017 11/8/2017 11/8/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 52,285 2,970 1,190 4,365 1,300 1,210 600	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100 \$21,250	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981	
Estimated FY2   4  4  4  4  4  4  4  4  4  4  4  4	7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37611 C. 701711-37614 T. 701711-37616 M. 701711-37616 M. 701711-37619 M. 701711-37620 M. 701711-37621 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37627 M. 701711-37628 M.	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC, North St & Oak St MNC 607-655 Chestnut St, MNC & Blodget St MNC 8-74 Carpenter St, MNC MNC 401-500 Laurel St, MNC MNC 20-154 S Maple St, MNC & Oakdale Ave	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St Beacon St S Willow St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Mitchell St Union St Webster St Union St Union St Cass St Cilley Rd	CI CI, BS CI	Pressure (PSIG)  LP  LP  LP  LP to 60  LP  LP  LP  LP  LP  LP  LP  LP  LP  L	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 6" 4", 6" 3", 4" 4", 8" 4", 8" 4", 8" 4", 8"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017  7/19/2017  6/27/2017  12/30/2017  5/17/2017  12/6/2017  12/6/2017  12/11/2017  7/11/2017  10/27/2017  12/15/2017  6/19/2017  12/28/2017  12/28/2017  12/27/2017  7/21/2017  10/24/2017  11/28/2017  11/28/2017  11/28/2017  11/8/2017  11/8/2017  In Progress  8/31/2017  9/16/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 52,285 2,970 1,190 4,365 1,300 1,210 600	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101 \$60,856	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731 \$79,113	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$227,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718	
Estimated FY2	70711-37613 CC 01711-37614 TC 01711-37614 TC 01711-37619 MC 01711-37620 MC 01711-37621 MC 01711-37624 MC 01711-37624 MC 01711-37624 MC 01711-37625 MC 01711-37626 MC 01711-37626 MC 01711-37627 MC 01711-37627 MC 01711-37628 MC 01711-37628 MC 01711-37628 MC 01711-37647 MC 01711-37632 NC 01711-37632 NC 01711-37635 NC 01711-	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC, North St & Oak St MNC 8-74 Carpenter St, MNC & Blodget St MNC 20-154 S Maple St, MNC MNC 20-154 S Maple St, MNC MNC 400-429 Wilson St, MNC, & Cedar St NAS 5-67 Williams St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 14-38 Brook St, NAS, Nash St & Lovell St	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St Beacon St S Willow St Bridge St Spruce St Allds St Hamilton St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Harvard St Union St Webster St Penacook St Union St Cass St Cilley Rd Lowell St Arlington St Lake St	CI CI, BS CI	Pressure (PSIG)  LP LP LP LP LP to 60 LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 6" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926 1915 1898 1900, 1940 1910, 1914, 1924, 1925, 1927, 1952			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 12/6/2017 11/29/2017 12/11/2017 7/11/2017 10/27/2017 12/15/2017 12/15/2017 12/28/2017 12/28/2017 12/27/2017 12/2017 12/2017 12/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/8/2017 11/8/2017 11/8/2017 11/8/2017 11/8/2017 10/5/2017 10/5/2017	4.68  66,811 \$1  12.65  Total Footage	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101 \$60,856 \$199,448 \$209,522	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731 \$79,113 \$259,282 \$272,378	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100 \$21,250	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378		Estimated Recoverable Co (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378	
Estimated FY2	7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37614 T. 701711-37614 T. 701711-37616 M. 701711-37619 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37627 M. 701711-37628 M. 701711-37628 M. 701711-37628 M. 701711-37628 M. 701711-37638 M. 701711-37638 N. 701711-37638 N. 701711-37639 N.	COD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 1-146 Orange St, MNC & Union St MNC 3-78-25 Maple St, MNC, North St & Oak St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St MNC 20-154 S Maple St, MNC MNC 20-154 S Maple St, MNC MNC 400-429 Wilson St, MNC, & Cedar St NAS 5-67 Williams St, NAS, Newbury St NAS 14-38 Brook St, NAS, Buchanan St & Faxon St NAS 75-235 Lake St, NAS	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St S Willow St Bridge St Spruce St Allds St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Harvard St Union St Webster St Penacook St Union St Cass St Cilley Rd Lowell St Auburn St	CI CI, BS CI	Pressure (PSIG)  LP  LP  LP  LP, LP to 60  LP  LP  LP  LP  60  LP  LP  LP  LP  LP  LP  LP  LP  LP  L	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 6" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926 1915 1898 1900, 1940 1910, 1914, 1924, 1925, 1927, 1952 1900, 1908, 1911, 1912, 1924 1906, 1925			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017 7/19/2017 6/27/2017 12/30/2017 12/6/2017 11/29/2017 12/11/2017 7/11/2017 10/27/2017 12/15/2017 12/15/2017 12/28/2017 12/28/2017 12/27/2017 12/2017 12/2017 12/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/28/2017 11/8/2017 11/8/2017 11/8/2017 11/8/2017 11/8/2017 10/5/2017 10/5/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 52,285 2,970 1,190 4,365 1,300 1,210 600 1,030 1,675 1,790 1,310	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101 \$60,856 \$199,448 \$209,522 \$137,678	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731 \$79,113 \$259,282 \$272,378 \$178,982	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100 \$21,250	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508		Estimated Recoverable Concluded) \$87,404 \$13,885,447 \$48,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282	
Estimated FY2	7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37614 T. 701711-37614 T. 701711-37616 M. 701711-37619 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37627 M. 701711-37628 M. 701711-37628 M. 701711-37628 M. 701711-37628 M. 701711-37638 M. 701711-37638 N. 701711-37638 N. 701711-37639 N.	CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 1-146 Orange St, MNC & Union St MNC 3-78-55 Maple St, MNC, North St & Oak St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St MNC 20-154 S Maple St, MNC MNC 20-154 S Maple St, MNC MNC 400-429 Wilson St, MNC, & Cedar St NAS 5-67 Williams St, NAS, Newbury St NAS 14-38 Brook St, NAS, Buchanan St & Faxon St	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St Seacon St S Willow St Bridge St Spruce St Allds St Hamilton St Lincoln Ave	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Harvard St Union St Webster St Penacook St Union St Cass St Cilley Rd Lowell St Arlington St Lake St Faxon St	CI CI, BS CI	Pressure (PSIG)  LP LP LP LP to 60 LP LP LP LP LP 60 LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 6" 4", 6" 3", 4" 4", 8" 4", 8" 4", 6" 3", 4" 4", 6" 2", 4" 2", 4"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926 1915 1898 1900, 1940 1910, 1914, 1924, 1925, 1927, 1952 1900, 1908, 1911, 1912, 1924			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017  7/19/2017  6/27/2017  12/30/2017  12/6/2017  11/29/2017  12/11/2017  7/11/2017  10/27/2017  12/15/2017  12/28/2017  12/28/2017  12/28/2017  12/27/2017  12/28/2017  12/28/2017  11/28/2017  11/28/2017  11/28/2017  11/8/2017  11/8/2017  10/5/2017  10/5/2017  12/4/2017	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 5,2285 2,970 1,190 4,365 1,300 1,210 600 1,030 1,675 1,790 1,310 2,555	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101 \$60,856 \$199,448 \$209,522 \$137,678 \$251,160	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731 \$79,113 \$259,282 \$272,378 \$178,982 \$326,508	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100 \$21,250	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982		Estimated Recoverable Concentration (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982	
Estimated FY2	7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37611 C. 701711-37614 T. 701711-37616 M. 701711-37619 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37627 M. 701711-37628 M. 701711-37628 M. 701711-37628 M. 701711-37638 M. 701711-37638 N. 701711-37638 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N.	COD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 1-146 Orange St, MNC & Union St MNC 3-78-25 Maple St, MNC, North St & Oak St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St MNC 20-154 S Maple St, MNC MNC 20-154 S Maple St, MNC MNC 400-429 Wilson St, MNC, & Cedar St NAS 5-67 Williams St, NAS, Newbury St NAS 14-38 Brook St, NAS, Buchanan St & Faxon St NAS 75-235 Lake St, NAS	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St Seacon St S Willow St Bridge St Spruce St Allds St Hamilton St Lincoln Ave Pine St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Webster St Union St Webster St Penacook St Union St Cass St Cilley Rd Lowell St Auburn St Lake St Faxon St Lewis St	CI CI, BS CI CI CI CI CI BS CI	Pressure (PSIG)  LP LP LP LP LP to 60 LP LP LP LP LP 60 LP LP LP LP LP LP LP LP to 60 LP LP LP LP to 60 LP LP LP to 60 LP LP LP to 60 LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 2", 4" 2", 4" 2", 4" 4", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926 1915 1898 1900, 1940 1910, 1914, 1924, 1925, 1927, 1952 1900, 1908, 1911, 1912, 1924 1906, 1925			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017  7/19/2017  6/27/2017  12/30/2017  12/6/2017  12/6/2017  12/6/2017  12/11/2017  7/11/2017  10/27/2017  12/15/2017  12/28/2017  12/28/2017  12/28/2017  12/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/8/2017  10/5/2017  10/5/2017  12/4/2017  12/29/2017  In Progress	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 2,285 2,970 1,190 4,365 1,300 1,210 600 1,030 1,675 1,790 1,310 2,555 1,850 5	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101 \$60,856 \$199,448 \$209,522 \$137,678 \$2251,160 \$180,484	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731 \$79,113 \$259,282 \$272,378 \$178,982 \$326,508	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100 \$21,250 \$40,650	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629		Estimated Recoverable Concluded) \$87,404 \$13,885,447 \$13,885,447 \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$113,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508	
Estimated FY2	7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37611 C. 701711-37614 T. 701711-37616 M. 701711-37619 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37627 M. 701711-37628 M. 701711-37628 M. 701711-37628 M. 701711-37638 M. 701711-37638 N. 701711-37638 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N.	COD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 1-146 Orange St, MNC & Union St MNC 3-78-25 Maple St, MNC, North St & Oak St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St MNC 20-154 S Maple St, MNC MNC 20-154 S Maple St, MNC MNC 400-429 Wilson St, MNC, & Cedar St NAS 5-67 Williams St, NAS, Newbury St NAS 14-38 Brook St, NAS, Buchanan St & Faxon St NAS 75-235 Lake St, NAS	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St Seacon St S Willow St Bridge St Spruce St Allds St Hamilton St Lincoln Ave Pine St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Webster St Union St Webster St Penacook St Union St Cass St Cilley Rd Lowell St Auburn St Lake St Faxon St Lewis St	CI CI, BS CI CI CI CI CI BS CI	Pressure (PSIG)  LP LP LP LP LP to 60 LP LP LP LP LP 60 LP LP LP LP LP LP LP LP to 60 LP LP LP LP to 60 LP LP LP to 60 LP LP LP to 60 LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 2", 4" 2", 4" 2", 4" 4", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926 1915 1898 1900, 1940 1910, 1914, 1924, 1925, 1927, 1952 1900, 1908, 1911, 1912, 1924 1906, 1925			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017  7/19/2017  6/27/2017  12/30/2017  12/6/2017  12/6/2017  12/6/2017  12/11/2017  7/11/2017  10/27/2017  12/15/2017  12/28/2017  12/28/2017  12/28/2017  12/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/8/2017  10/5/2017  10/5/2017  12/4/2017  12/29/2017  In Progress	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 2,285 2,970 1,190 4,365 1,300 1,210 600 1,030 1,675 1,790 1,310 2,555 1,850 5	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101 \$60,856 \$199,448 \$209,522 \$137,678 \$2251,160 \$180,484	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731 \$79,113 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100 \$21,250 \$40,650	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160 \$180,484	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629		Estimated Recoverable Concluded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	
Estimated FY2	7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37611 C. 701711-37614 T. 701711-37616 M. 701711-37619 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37627 M. 701711-37628 M. 701711-37628 M. 701711-37628 M. 701711-37638 M. 701711-37638 N. 701711-37638 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N.	COD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 1-146 Orange St, MNC & Union St MNC 3-78-25 Maple St, MNC, North St & Oak St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St MNC 20-154 S Maple St, MNC MNC 20-154 S Maple St, MNC MNC 400-429 Wilson St, MNC, & Cedar St NAS 5-67 Williams St, NAS, Newbury St NAS 14-38 Brook St, NAS, Buchanan St & Faxon St NAS 75-235 Lake St, NAS	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St Seacon St S Willow St Bridge St Spruce St Allds St Hamilton St Lincoln Ave Pine St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Webster St Union St Webster St Penacook St Union St Cass St Cilley Rd Lowell St Auburn St Lake St Faxon St Lewis St	CI CI, BS CI CI CI CI CI BS CI	Pressure (PSIG)  LP LP LP LP LP to 60 LP LP LP LP LP 60 LP LP LP LP LP LP LP LP to 60 LP LP LP LP to 60 LP LP LP to 60 LP LP LP to 60 LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 2", 4" 2", 4" 2", 4" 4", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926 1915 1898 1900, 1940 1910, 1914, 1924, 1925, 1927, 1952 1900, 1908, 1911, 1912, 1924 1906, 1925			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017  7/19/2017  6/27/2017  12/30/2017  12/6/2017  12/6/2017  12/6/2017  12/11/2017  7/11/2017  10/27/2017  12/15/2017  12/28/2017  12/28/2017  12/28/2017  12/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/8/2017  10/5/2017  10/5/2017  12/4/2017  12/29/2017  In Progress	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 2,285 2,970 1,190 4,365 1,300 1,210 600 1,030 1,675 1,790 1,310 2,555 1,850 5	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101 \$60,856 \$199,448 \$209,522 \$137,678 \$2251,160 \$180,484	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731 \$79,113 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100 \$21,250 \$40,650	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160 \$180,484	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629		Estimated Recoverable Concluded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	
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Estimated FY2	7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37611 C. 701711-37614 T. 701711-37616 M. 701711-37619 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37627 M. 701711-37628 M. 701711-37628 M. 701711-37628 M. 701711-37638 M. 701711-37638 N. 701711-37638 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N.	COD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 1-146 Orange St, MNC & Union St MNC 3-78-25 Maple St, MNC, North St & Oak St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St MNC 20-154 S Maple St, MNC MNC 20-154 S Maple St, MNC MNC 400-429 Wilson St, MNC, & Cedar St NAS 5-67 Williams St, NAS, Newbury St NAS 14-38 Brook St, NAS, Buchanan St & Faxon St NAS 75-235 Lake St, NAS	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St Seacon St S Willow St Bridge St Spruce St Allds St Hamilton St Lincoln Ave Pine St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Webster St Union St Webster St Penacook St Union St Cass St Cilley Rd Lowell St Auburn St Lake St Faxon St Lewis St	CI CI, BS CI CI CI CI CI BS CI	Pressure (PSIG)  LP LP LP LP LP to 60 LP LP LP LP LP 60 LP LP LP LP LP LP LP LP to 60 LP LP LP LP to 60 LP LP LP to 60 LP LP LP to 60 LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 2", 4" 2", 4" 2", 4" 4", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926 1915 1898 1900, 1940 1910, 1914, 1924, 1925, 1927, 1952 1900, 1908, 1911, 1912, 1924 1906, 1925			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017  7/19/2017  6/27/2017  12/30/2017  12/6/2017  12/6/2017  12/6/2017  12/11/2017  7/11/2017  10/27/2017  12/15/2017  12/28/2017  12/28/2017  12/28/2017  12/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/8/2017  10/5/2017  10/5/2017  12/4/2017  12/29/2017  In Progress	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 2,285 2,970 1,190 4,365 1,300 1,210 600 1,030 1,675 1,790 1,310 2,555 1,850 5	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101 \$60,856 \$199,448 \$209,522 \$137,678 \$2251,160 \$180,484	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731 \$79,113 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100 \$21,250 \$40,650	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160 \$180,484	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629		Estimated Recoverable Concluded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	st Comments
Estimated FY2  4  4  4  4  4  4  4  4  4  4  4  4  4	7018 Carry Over Co. 701711-37602 C. 701711-37604 C. 701711-37609 C. 701711-37610 C. 701711-37611 C. 701711-37611 C. 701711-37614 T. 701711-37616 M. 701711-37619 M. 701711-37621 M. 701711-37622 M. 701711-37623 M. 701711-37624 M. 701711-37625 M. 701711-37626 M. 701711-37627 M. 701711-37628 M. 701711-37628 M. 701711-37628 M. 701711-37638 M. 701711-37638 N. 701711-37638 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N. 701711-37639 N.	COD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 1-146 Orange St, MNC & Union St MNC 3-78-25 Maple St, MNC, North St & Oak St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St MNC 20-154 S Maple St, MNC MNC 20-154 S Maple St, MNC MNC 400-429 Wilson St, MNC, & Cedar St NAS 5-67 Williams St, NAS, Newbury St NAS 14-38 Brook St, NAS, Buchanan St & Faxon St NAS 75-235 Lake St, NAS	Auburn St S Main St South St Liberty St Rollins St Franklin St Pine St Broadway W Main St Pine St Silver St McGregor St Queen City Av Sommerville S Elm St Sagamore St Brook St Elm St Seacon St S Willow St Bridge St Spruce St Allds St Hamilton St Lincoln Ave Pine St	Redwood Ave Merrimack St N State St EOM Rumford St Fellows St Winter St Maple St Somerville St Moncalm St Webster St Union St Webster St Penacook St Union St Cass St Cilley Rd Lowell St Auburn St Lake St Faxon St Lewis St	CI CI, BS CI CI CI CI CI BS CI	Pressure (PSIG)  LP LP LP LP to 60 LP LP LP LP LP 60 LP LP LP LP LP LP LP LP to 60 LP LP LP LP to 60 LP LP LP to 60 LP LP LP to 60 LP	4" 4", 6" 1.25", 4" 4", 6", 8" 1.25", 4" 4", 6", 8" 4", 6" 4", 6" 4", 6" 4", 6" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 3", 4" 4", 6" 2", 4" 2", 4" 2", 4" 4", 6"	1928, 1939 1954 1923 1892, 1894, 1933, 1937, 1968 1907, 1930 1927 1892, 1904 1931, 1956 1931 1921, 1922, 1927, 1934 1915, 1916, 1949 1926 1904, 1924, 1927, 1929 1902, 1912, 1913, 1956 1894 1926, 1929, 1940, 1944, 1947 1894, 1922, 1927 1895, 1911, 1914, 1925, 1927 1898, 1913, 1960 1925, 1926 1915 1898 1900, 1940 1910, 1914, 1924, 1925, 1927, 1952 1900, 1908, 1911, 1912, 1924 1906, 1925			399	Total Miles 4.19  889 57,556	210 7,590	1,240  0.23  Project Completion Date  12/21/2017  7/19/2017  6/27/2017  12/30/2017  12/6/2017  12/6/2017  12/6/2017  12/11/2017  7/11/2017  10/27/2017  12/15/2017  12/28/2017  12/28/2017  12/28/2017  12/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/28/2017  11/8/2017  10/5/2017  10/5/2017  12/4/2017  12/29/2017  In Progress	4.68  66,811 \$1  12.65  Total Footage  1,400 695 400 2,780 495 765 1,045 1,960 1,185 1,970 1,305 620 3,195 2,285 2,970 1,190 4,365 1,300 1,210 600 1,030 1,675 1,790 1,310 2,555 1,850 5	st Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$18,634 \$54,483 \$18,692 \$67,469 \$86,407 \$202,985 \$134,534 \$128,304 \$159,894 \$71,868 \$297,691 \$86,119 \$75,860 \$32,101 \$60,856 \$199,448 \$209,522 \$137,678 \$2251,160 \$180,484	\$16,630,289  Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$24,224 \$70,828 \$24,224 \$70,828 \$24,300 \$90,420  \$112,329  \$263,881 \$174,894 \$166,795 \$207,862 \$93,428 \$386,999 \$111,955 \$98,618 \$41,731 \$79,113 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	\$937,150  Estimated Degradation Fee  \$9,110  \$59,110  \$59,700 \$53,100 \$24,870 \$116,990 \$83,070 \$87,870 \$102,720 \$46,830 \$168,150 \$52,110 \$45,100 \$21,250 \$40,650	\$13,480,290  Total Cost Estimate (Direct) \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160 \$180,484	\$17,567,439  Total Cost Estimate (Loaded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629		Estimated Recoverable Concluded) \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	st Comments

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# FY 2019 Cast Iron/Bare Steel Replacement Program

A B	D	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM AN	AO	AP	AQ AR	AS	AT	AU	<u> </u>	AV	AW	AX		AY	. BA		BB	BC	BD	BE	BF		ВО	DIII	BI		BJ	BK	BL	BN
					Actual	CS & PL		Total CIBS	Actual	Actual A	Actual Actual	Actual	Actual	actual Actua	al	Actual Main C		Actual T	Total Cost /	Actual Main Co	st	. Actual T	otal Cost	Main Costs	to be Se	ervice Cost to be	Recoverable	able Recoverable	le Total	Estimate	ed Esti	mated			(INC			Actual Loaded	1 Lord Con
Priority Work Order #	Town Street	Actual Start Date	Actual Completion Da	Status	Footage	Relay & New Main	Upsizea E	Eliminated (AG+R-AH)	, Service	Service Se Inserts R	ervice Service elays Inserts S & PL CS & PL		Service	ervice Servic	e Degradatio	(DEGRADATI		ervice Direct	(AT	Loaded EGRADATION IN	Actual Sei	rvice Loa	+ AX)	Removed (	(Non- R	Removed (Non- Recoverable)	Main Cost	Service Cost (AX - BB)	st Recoverab Cost	Carryover (	Costs - Carryo		stimated Direct Co	Actual Cost Direct CARRYOVER	Direct	Variance %	Estimated Loaded Cost	Cost (INCL CARRYOVER)	Loaded Cost Variance Comments
1					ilistalleu	Footage	,	(AO+N-AII)	BS	BS CS	S & PL CS & PL	liansiei	Aband BS	ivew Total		INCL)		**	(DE	EGRADATION	NCL)	(AW	T AA)	recovera	ыеј	Necoverable	(AVV - BA	(AX - BB,	(BC + BD)	Direct		aueu						CARRIOVER	
2 <b>NORTHERN DIVISION</b> 3 119.15 401711-37601	CCD 66-89 S State St	10/29/2018	12/27/2018	CASBUIL	T 520	0	0	520	0	0	1 0	11	0	0 12	\$21,263	\$193,403	3 \$53,3	320 \$24	46,722	\$210,303	\$61,63	32 \$27:	1,936 1	% \$0		\$61,632	\$210,303	03 \$0	\$210,303	\$17,76	51 \$2	3,536	\$156,588	\$264,483		69%	\$201,256	\$295,472	47% Additional test holes required, daily permit time restrictions, and actual degradation fee greater than estimate. 2019 Restoration.
	CCD 8-42 Centre St, N State St & Park St						0	0														·																	Project deferred to 2019 due to MA crew support.
10.33 401711-37607	CCD 59-105 Pleasant St & Pine St	7/23/2018	12/17/2018	CASBUILT	T 4,051	300	305	4,126	16	4	8 13	7	0	0 48	\$11,737	\$482,845	\$163,	732 \$64	46,577	\$586,218	\$163,73	32 \$749	9,950 1	% \$46,03	36	\$90,109	\$540,182	82 \$73,624	\$613,806	\$75,48	34 \$10	01,903	\$508,079	\$722,061		42%	\$658,094	\$851,853	29% Actual installation footage greater than estimate, daily permit time restrictions, and ledge located within scope of project. 2019 Restoration.
5 7.10 401811-37628		5/24/2018	6/20/2018	CASBUILT		40	0	852	8	0	1 0	4	0	0 13	\$15,505	\$114,215			46,263	\$125,599	\$35,55		1,155 1	% \$5,632		\$12,299	\$119,967		\$143,225			3,200	\$158,031	\$170,855		8%	\$205,101	\$194,355	-5% On budget. 2019 Restoration.
5.64 401811-37602	CCD 127-161 School St, Pleasant St, N Fruit St, Minot St, Kensington		12/18/2018	CASBUIL	т 3,259	40	3,205	5,369	18	0	11 0	18	0	0 47	\$0	\$582,320	\$174,0	669 \$75	56,989	\$782,855	\$211,44		4,300 3	% \$37,17	72	\$130,269	\$745,684	84 \$81,176	\$826,860	\$103,22	29 \$13	39,359	\$706,400	\$860,218		22%	\$910,179	\$1,133,659	
3.77 401811-37601	Rd, and Rum Hill Rd	6/18/2018	8/6/2018	CASBUIL	T 1 136	100	0	1 036	3	0	5 0	6	0	0 14	\$5,702	\$151,533	3 \$49,9	356 \$20	01,489	\$184,454	\$69,00	M \$25:	3,458 2	% \$16,23	17	\$50,768	\$168,217	17 \$18,237	\$186,453	\$30,37	12 \$1	1,002	\$169,314	\$231,861		37%	\$218,997	\$294,460	Additional test holes required, extra depth excavation at tie-in locations, ledge located within scope of project, and actual service installations
9 Northern Division Totals	15-30 Westbourne Rd, Park Ridge Rd, and Ridge Rd	0/10/2010	0/0/2010	CASBOIL	, ,	480	3,510	11,903	45	4	26 13	46	0	0 134		\$1,524,31						·						353 \$196,294					\$1,698,412	\$2,249,478		32%	\$2,193,627	\$2,769,799	greater than estimate. 2019 Restoration.
10				Mileage	1.87															, , , , , , ,	, , ,				J.				, , , , , , ,		, , ,		,,,,,,	Average Loa	ded Cost/Foot No	orth	\$195	\$281	
11 <b>CENTRAL DIVISION</b> 12 25.07 401811-37614	MNC 262-302 Main St, and Schuyler St	7/12/2018	8/16/2018	CASBUIL	T 515	120	0	395	5	0	3 0	5	0	0 13	\$29,980	\$204,671	\$39,1	138 \$24	43,809	\$226,801	\$45,19	95 \$27:	1,996 1	% \$52,84	17	\$25,739	\$173,954	4 \$19,456	\$193,410	\$0		\$0	\$124,053	\$243,809		97%	\$159,978	\$271,996	70%
	MNC 237-356 Amory St, Reed St, and Montgomery St	6/21/2018	8/28/2018	CASBUILT	T 1,480	35	270	1,445	11	1	4 3	7	0	0 26	\$73,745	\$466,015	\$91,3	312 \$55	57,327	\$502,573	\$101,59	99 \$604	4,172 8	\$14,20	)7	\$56,716	\$488,366	66 \$44,883	\$533,248	\$0		\$0	\$372,922	\$557,327		49%	\$477,378	\$604,172	Actual installation footage, existing asphalt thickness, and degradation fee greater than estimate. Also, silt bags required by City to be installed within project scope. Restoration 100% complete.
18.51 401711-37617	MNC 69-152 Harrison St, Beech St, and Hazel St	8/1/2018	12/19/2018	CASBUILT	Т 1,719	0	0	1,719	13	0	3 0	13	0	0 29	\$0	\$210,679	\$92,4	131 \$30	03,110	\$229,909	\$124,12	29 \$354	4,038 1	% \$0		\$73,192	\$229,909	09 \$50,936	\$280,846	\$154,74	49 \$18	38,822	\$317,649	\$457,859		44%	\$404,235	\$542,860	Actual installation footage greater than estimate, silt bags for catch basins, existing asphalt within project scope thicker than estimate, and
14 15 17.79 401811-37609		6/26/2018	9/4/2018	CASBUIL	T 1,181	10	0	1,251	6	0	3 5	0	0	0 14	\$0	\$44,983			85,374	\$43,016	\$47,70	7 \$90	),723	6 \$364		\$29,033	\$42,651	\$18,674	\$61,325	\$116,04		13,399	\$218,468	\$201,418		-8%	\$278,646	\$234,122	additional binder required to match existing thickness. 2019 Restoration.  -16% On budget. 2019 Restoration.
	MNC 550-615 Pine St, Harrison St, and Brook St MNC 139-229 Young St, Taylor St, Norris St, and Ainsworth Ave	5/25/2018 6/1/2018	12/19/2018 7/27/2018		T 2,358	0	465 1 145	2,358 1 790	9	0	5 0	10		0 24 0 35	-	\$328,162 \$297,090		103 \$40 959 \$38		\$329,657 \$321,847	\$82,96 \$103,58		2,625 3 5.431 1	\$3,999 \$13,40		\$48,974 \$55.629	\$325,658 \$308.444	, , , , , , , , ,	\$359,652 \$356.399			24,634 25,583	\$507,931 \$411,310	\$587,986 \$497,300		16% 21%	\$637,284 \$522,236		0% On budget. Brook St restoration complete. Balance restoration remaining for 2019.  6% Actual thickness of asphalt greater than estimate and silt bags required by City. Small amount of restoration remaining for 2019.
12.68 401811-37607		8/13/2018	12/27/2018	CASBUILT	T 3,259	250	895	3,389	14	1	16 11	17	1	0 60	\$0	\$407,288			75,603	\$490,070	\$168,79		8,864 1	% \$45,29		\$120,668	\$444,779		\$492,905		,	39,660	\$689,339	\$936,251		36%	\$871,781	\$1,098,524	Actual installation footage greater than estimate, daily permit time restrictions, ledge located within scope of project, and multiple Saturdays
18 19 11.58 401811-37613	MNC 677-759 Pine St, N Adams St, and Bay St	4/27/2018	9/18/2018	CASBUIL	T 562	0	0	562	1	0	0 1	7	0	0 9	\$0	\$146,002			66,237	\$168,741	\$26,03	32 \$194	4,774 1	% \$0		\$21,735	\$168,741		\$173,039	\$76,71		4,456	\$475,889	\$242,955		-49%	\$600,410	\$289,230	worked to complete project within calendar year. 2019 Restoration.
20 10.28 401811-37608	MNC 266-507 Concord St, Lincoln St, Malvern St, and Belmont St	6/25/2018	10/25/2018	CASBUIL	T 4,064	60	965	4,004	25	0	16 0	24	0	0 65	\$0	\$407,800	\$165,2	297 \$57	73,098	\$458,272	\$185,29	99 \$643	3,571 1	% \$15,06	55	\$106,840	\$443,207	07 \$78,459	\$521,666	\$379,37		52,601	\$775,812	\$952,477		23%	\$985,164	<u> </u>	12% Actual installation footage greater than estimate, ledge located within scope of project, and additional test holes required. 2019 Restoration.
8.91 401811-37606	MNC 1001-1202 Hayward St, Prout Ave, Riley Ave, Sunnyside St, and Knowlton St	9/24/2018	12/19/2018	CASBUILT	Т 2,902	120	0	4,537	18	6	9 11	20	0	0 64	\$0	\$293,406	\$171,	191 \$46	64,597	\$321,043	\$190,05	59 \$51:	1,102 1	% \$13,27	75	\$120,463	\$307,767	\$69,596	\$377,364	\$249,17	75 \$30	09,296	\$514,476	\$713,772		39%	\$661,366	\$820,398	Actual installation footage greater than estimate, ledge located within scope of project, actual bid unit main length intervals on sections of project greater than estimate (mobilization to separate streets not continuous segments). 2019 Restoration.
22 7.07 401811-37610 23 Central Division Totals	MNC 593-703 Maple St, Myrtle St, Prospect St, and Brook St	6/20/2018	8/31/2018	CASBUILT			180	2,908	10	0	8 1	7	0	0 26	\$0	\$193,317 <b>\$2,999,41</b>	ψ, 5,5		72,634	\$193,025	\$94,04		.,	\$10,45		\$49,517 <b>\$708.506</b>	\$182,575	75 \$44,528 <b>\$460,903</b>	\$227,103	\$174,62		14,615	\$360,768	\$447,254 <b>\$5.838.409</b>		24%	\$459,247 <b>\$6,057,725</b>		9% Actual installation footage greater than estimate. 2019 Restoration.  10%
24 Central Division Totals				Mileage	4.11			•	126	0	08 32	130	1	0   365	\$103,725	\$2,999,41	.4   \$1,028	5,089   \$4,0	028,103	<b>\$3,284,955</b>	\$1,169,4	109   \$4,45	54,364   1	%   \$108,90	02	\$708,500	\$3,116,00	154   \$460,905	\$3,576,95	5   \$1,810,3	3U6   \$2,2	203,066	\$4,708,015	40,000,000	ed Cost/Foot Ce	22/0	\$276	\$6,637,430	10%
25 SOUTHERN DIVISION							<u> </u>												T									$\overline{}$											Actual installation footage greater than estimate, ashestos found within scope of project, outra execution at tip installational test halos
53.89 401711-37631	NAS 69-85 Lock St, Lucier St, Lessard St, and Aetna Ct	8/27/2018	12/31/2018	CASBUILT	Т 1,635	65	1,040	1,570	18	0	10 0	4	0	1 33	\$0	\$255,620	\$137,8	889 \$39	93,509	\$285,818	\$147,90	02 \$433	3,719 1	% \$20,30	07	\$60,610	\$265,511	11 \$87,291	\$352,802	\$297,06	69 \$40	01,043	\$460,946	\$690,578		50%	\$620,439	\$834,762	Actual installation footage greater than estimate, asbestos found within scope of project, extra excavation at tie ins, and additional test holes required. 2019 Restoration.
17.06 401811-37618	NAS 1-132 Allds St, Crown St, and Proctor St	6/1/2018	1/7/2019	CASBUILT	Т 3,720	200	3,720	3,520	19	1	16 0	21	0	0 57	\$0	\$535,600	\$254,3	323 \$78	89,924	\$638,650	\$289,93	31 \$928	8,582 1	% \$66,32	28	\$194,948	\$572,322	\$94,984	\$667,306	\$574,79	93 \$7	75,970	\$1,726,196	\$1,364,717		-21%	\$2,294,621	\$1,704,552	-26% Allds St from Williams to E Hollis St complete in 2019. Remaining scope deferred to 2019 due to MA crew support. 2019 Restoration.
28 <b>15.68 401811-37622</b>		0/10/2010	12/10/2010	CACDIIII	T 1.054	100	675	1 0 - 1	0	0	2 0	0	0	2 22	ćo	\$182,906	6747	725 625	57 621	\$197,853	\$109,59	02 620	7.444	% \$15,94	16	\$62.405	¢101.007	7 \$46.407	\$220,000	6245.00	21 62	21.660	\$384.153	\$503.312		31%	\$511.126	¢620.442	Project deferred to 2019 due to MA crew support.  25% Actual installation footage greater than estimate 2019 Restoration.
29     11.57     401811-37627       30     10.18     401711-37640	NAS 106-128 Vine St, Chestnut St, and W Otterson St  NAS 1-21 Fowell Ave, Lawndale Ave, and Park Ave	7/23/2018	8/16/2018	CASBUIL	T 1,951	50	660	1,851	14	0	2 0	14	0	0 30	\$0 \$0	\$258,286	\$96,6	725 \$25 597 \$35	54,983	\$197,853		27 \$41!	7,444 1 5,598 1	% \$15,94 % \$13,44		\$50,651	\$181,907	07 \$46,187 27 \$62,477	\$351,503	\$245,68	71 \$36	54,730	\$384,153 \$460,272	\$625,154		36%	\$511,126 \$614,726	\$639,113 \$780,328	25% Actual installation footage greater than estimate. 2019 Restoration. 27% Asbestos found within scope of project, extra excavation at tie-ins, and additional test holes required. 2019 Restoration.
	NAS 171-185 Concord St, Bell St, and Damon Ave	10/24/2018			Т 1,615	620	0	1,045	6	0	6 1	11	0	0 24	\$0	\$122,269			96,970	\$132,606	\$85,36	,	7,970 1	% \$50,90		\$65,438	\$81,698	, .,.	\$101,625	\$189,98	,	56,483	\$395,073	\$386,958		-2%	\$524,314	\$474,453	Ding Ct @ Dags Ct south deferred due to MA group support. Dags Ct control stool found to be have stool during tip in Added Dags to project soons
32	NAS 126-226 Pine St, Lovewell St, and Palm St	9/24/2018	12/7/2018	CASBUIL	T 2,460	75	785	2,385	11	0	6 0	21	0	3 41	\$0	\$296,851	\$127,	563 \$42	24,415	\$326,758	\$144,23	37 \$470	0,995 1	% \$16,71	13	\$101,821	\$310,045	45 \$42,417	\$352,462	\$290,84	42 \$39	92,637	\$949,469	\$715,257		-25%	\$1,268,548	\$863,632	2019 Restoration.
7.14 401711-37645	NAS 1-17 Warren St	6/18/2018	8/30/2018	CASBUIL	T 340	340	0	0	6	0	0 0	0	0	0 6	\$0	\$115,711	\$11,9	938 \$12	27,649	\$131,983	\$14,00	)3 \$14!	5,986 1	% \$131,98	83	\$0	\$0	\$14,003	\$14,003	\$0		\$0	\$164,727	\$127,649		-23%	\$213,695	\$145,986	-32% 4 inch main installation and service lines on Warren St completed in 2018. 12 inch installation and 16 inch abandonment deferred to 2019 due to crew support. 2019 Restoration.
	NAS 1-40 Courtland St, Webster St, and Ayer St																										+												Project deferred to 2019 due to MA crew support.  Approx. 50% of project scope concrete found under existing asphalt. City required asphalt restoration where concrete existed. 3 ft. cut back area
8.14 401811-37629	NAS 65-125 Concord St	3/26/2018	7/30/2018	CASBUILT	,		· ·	3,816	6	0	9 0	15	0	0 30	\$0	\$1,506,37		, ,-	643,969	\$1,642,091	\$165,70	. ,	07,792 1	% \$67,22	24	\$132,262	\$1,574,867	, ,	\$1,608,30	, -,-		5,147	\$961,654	\$1,662,596		73%	\$1,275,956 <b>\$7.323.425</b>	\$1,832,939	outside trench line did not require dig out just cut back to top of concrete. Minor restoration remaining for 2019.
							10.776	16,084	1 89	1	52   1	94	0	6   243	50						4			4000.00		4000 101	40.000.00	4.00				47.679	\$5,502,490			10%			***
36 Southern Division Totals 37				Mileage	3.33						<u>'</u>					33,273,02	3   \$915,4	427   \$4,18	189,050	\$3,658,228	\$1,069,8	\$4,72	28,086 1	\$382,85	52	\$669,134	\$3,275,37	\$400,724	\$3,676,10	J   \$1,887,1	1/1   32,3	,675			ded Cost/Foot So		\$382	\$7,275,765	-1%
36 Southern Division Totals 37 38				Mileage	3.33	0.29	2.04	3.05							_																			Average Loa	ded Cost/Foot So	outh	\$382	\$414	
36 Southern Division Totals 37 38 FY2019 CIBS Program Totals	5			Mileage	3.33		2.04	3.05							_	\$7,797,35							13,249			\$669,134 \$1,722,716		782 \$1,057,920				089,745	\$11,969,517		ded Cost/Foot So				
37 38	s				3.33	2,710	18,206	3.05 52,345							_																			\$14,164,108	ded Cost/Foot So	18%	\$382	\$414	
37 38 FY2019 CIBS Program Totals 40					49,115	2,710	18,206	3.05 52,345							_																			\$14,164,108	ded Cost/Foot So	18%	\$382 \$15,574,776	\$414	
37 38					49,115	2,710	18,206	3.05 52,345							\$157,932	\$7,797,35		7,842 \$10,2	,215,193			537 \$11,6	13,249 1							3 \$3,948,9	915 \$5,0			\$14,164,108	ded Cost/Foot So	18%	\$382 \$15,574,776	\$414 \$16,702,994 \$340	7%
37 38 FY2019 CIBS Program Totals 40	er Costs				49,115	2,710	18,206	3.05 52,345							_	\$7,797,35		7,842 \$10,2				537 \$11,6	13,249 1						0 \$9,233,70  Total Recoverab	3 \$3,948,9	915 \$5,0	)89,745		\$14,164,108 Average Loa	ded Cost/Foot So	18%	\$382 \$15,574,776	\$414	7%  Loaded Variance Comments
37 38  FY2019 CIBS Program Totals 40  41 Estimated FY2018 Carry Ove Work Order # 42 43 401711-37602	er Costs  Town Street  Code CCD 25-50 Ridge Rd, CCD & Franklin St				49,115	2,710	18,206	3.05 52,345							\$157,932  Degredatio Fees \$0	\$7,797,35		Actua Dried	,215,193			Actual To Co \$59	13,249 1 tal Loaded ost						Total Recoverab Cost \$59,635	Estimate Degradatio	ed Degrac	)89,745	\$11,969,517  stimated Direct Co	\$14,164,108 Average Loa	ded Cost/Foot So	18% lotal Variance % -40%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404	\$16,702,994 \$340 Actual Loaded Cost \$59,635	7%  Loaded Variance %  Variance Comments  -32% Restoration 100% complete. Restoration actuals less than estimate.
37 38  FY2019 CIBS Program Totals 40 41 Estimated FY2018 Carry Ove Work Order # 42 43 401711-37602 44 401711-37603	er Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St				49,115	2,710	18,206	3.05 52,345							\$157,932  Degredatio Fees	\$7,797,35		Actua Dried \$40 \$11	,215,193  ual Total ect Cost 40,611 11,568			Actual To Co \$59 \$110	tal Loaded						Total Recoverab Cost	Estimate Degradatio	ed Degrace	189,745	\$11,969,517	\$14,164,108 Average Loa  st Actual Total Direct	ded Cost/Foot So	18%   Variance %   -40%   -47%	\$382 \$15,574,776 \$298 Estimated Loaded Cost	\$16,702,994 \$340 Actual Loaded Cost	7%  Loaded Variance Wariance Comments  -32% Restoration 100% complete. Restoration actuals less than estimate.  -63% Restoration 100% complete. Restoration actuals less than estimate.
37 38  FY2019 CIBS Program Totals  40  41 Estimated FY2018 Carry Ove  Work Order #  42 43	er Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St				49,115	2,710	18,206	3.05 52,345							\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actua Driec \$40 \$11 \$31 \$13	,215,193  ual Total ect Cost 40,611 11,568 31,173 36,768			Actual To Co \$59 \$10 \$28 \$21	tal Loaded ost 0,635 0,411 8,056 0,702						Total Recoverab Cost \$59,635 \$10,411	Estimate Degradatio \$0 \$0 \$0 \$0	ed Degrac	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$11,969,517 stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881	Average Loa \$14,164,108  Average Loa  st Actual Total Direct \$40,611 \$11,568	ded Cost/Foot So	18% otal Variance % -40% -47% -16% -3%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145	\$16,702,994 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056	Toaded Variance W  -32% Restoration 100% complete. Restoration actuals less than estimate63% Restoration 100% complete. Restoration actuals less than estimate42% Restoration 100% complete. Restoration actuals less than estimate42% Restoration 100% complete. Restoration actuals less than estimate53% Restoration 100% complete. Restoration actuals less than estimate53% Restoration 100% complete. Restoration actuals less than estimate54% Restoration 100% complete. Restoration actuals less than estimate55% 3 Road crossings remaining for 2019. Slightly over budget.
37 38  FY2019 CIBS Program Totals  40  41 Estimated FY2018 Carry Ove  42 43	er Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St  CCD 1-10 Langdon Ave, CCD, S Main St  CCD 53-79 Downing St, CCD, Wheaton Ave  CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St  CCD 5-22 Chapel St, CCD  CCD Gladstone St, CCD				49,115	2,710	18,206	3.05 52,345							\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actua Driec \$40 \$11 \$31 \$13	,215,193  ual Total ect Cost 40,611 11,568 31,173 36,768			Actual To Co \$59 \$10,6 \$28 \$211,6	tal Loaded ost 9,635 9,411 8,056 9,702 60 7,536						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536	Estimate   Degradatio   \$0	ed Degrac	SO   SO   SO   SO   SO   SO   SO   SO	\$11,969,517 stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334	\$16,702,994 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536	Todaded Variance %  -32% Restoration 100% complete. Restoration actuals less than estimate63% Restoration 100% complete. Restoration actuals less than estimate42% Restoration 100% complete. Restoration actuals less than estimate15% 3 Road crossings remaining for 2019. Slightly over budget100% Restoration 100% complete. Paved by City153% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filling.
37 38  FY2019 CIBS Program Totals  40  41 Estimated FY2018 Carry Ove  Work Order #  42  43	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD G5-112 Warren St, CCD				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actua Driec \$40 \$11 \$31 \$13	,215,193  ual Total ect Cost 40,611 11,568 31,173 36,768			Actual To Cc \$59 \$10 \$28 \$21( \$21( \$46	tal Loaded ost 9,635 0,411 0,056 0,702 50						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610	Estimate   Degradatio   \$0	ed Degrac	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$11,969,517 stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541	\$14,164,108  Average Loa  \$40,611 \$11,568 \$31,173	ded Cost/Foot So	18%  Otal  Variance %  -40% -47% -16% -3% -100% -119% -37%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603	\$16,702,994 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610	Todaded Variance W  Loaded Variance W  -32% Restoration 100% complete. Restoration actuals less than estimate63% Restoration 100% complete. Restoration actuals less than estimate42% Restoration 100% complete. Restoration actuals less than estimate42% Restoration 100% complete. Restoration actuals less than estimate. 15% 3 Road crossings remaining for 2019. Slightly over budget100% Restoration 100% complete. Paved by City153% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filing34% Restoration 100% complete. Restoration actuals less than estimate.
37 38  FY2019 CIBS Program Totals 39  40  41 Estimated FY2018 Carry Ove 42 43	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD G5-112 Warren St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actua Dried \$40 \$11 \$31 \$13 \$32 \$34 \$13	215,193  Lual Total ect Cost  40,611 11,568 31,173 36,768 \$0 55,348 34,057 17,143			Actual To Co \$59 \$11,6 \$28 \$211 \$46 \$46 \$51	tal Loaded ost 0,635 0,411 8,056 0,702 80 7,7536 6,610 0,691 80						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0	Estimate   Degradatio   \$0	ed Degrac	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517 stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$54,483 \$54,692 \$67,469	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611 \$11,568 \$31,173 \$136,768 \$0 -\$5,348 \$34,057 \$17,143 \$0	ded Cost/Foot To	18%  Variance %  -40% -47% -16% -3% -110% -37% -8% -100%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420	\$16,702,994 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0	Todaded Variance %  -32% Restoration 100% complete. Restoration actuals less than estimate63% Restoration 100% complete. Restoration actuals less than estimate42% Restoration 100% complete. Restoration actuals less than estimate15% 3 Road crossings remaining for 2019. Slightly over budget100% Restoration 100% complete. Paved by City153% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filing34% Restoration 100% complete. Restoration actuals less than estimate56% Donovan and Wiggen restoration complete. Rockingham main and service 2018 project complete. Restoration came in less than estimate100% Restoration 100% complete. Final restoration not required.
37 38  FY2019 CIBS Program Totals  40  41 Estimated FY2018 Carry Ove  42 43	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD G5-112 Warren St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actua Dried \$40 \$11 \$31 \$13 \$32 \$34 \$13	215,193  Lual Total ect Cost  40,611 11,568 31,173 36,768 \$0 55,348 34,057 17,143			Actual To Co \$59 \$11,6 \$28 \$21( \$ \$46 \$100 \$30 \$100 \$100 \$100 \$100 \$100 \$100	tal Loaded ost 0,635 0,411 8,056 0,702 80 7,7536 6,610 0,691 8,00 0,519 8,743						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743	Estimate   Degradatio   \$0	ed Degrad	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517 \$timated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -119% -37% -8% -100% -41% -11%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429	\$16,702,994 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743	Todaded Variance %  Loaded Variance %  -32% Restoration 100% complete. Restoration actuals less than estimate63% Restoration 100% complete. Restoration actuals less than estimate42% Restoration 100% complete. Restoration actuals less than estimate42% Restoration 100% complete. Restoration actuals less than estimate15% 3 Road crossings remaining for 2019. Slightly over budget100% Restoration 100% complete. Paved by City153% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filing34% Restoration 100% complete. Restoration actuals less than estimate56% Donovan and Wiggen restoration complete. Rockingham main and service 2018 project complete. Restoration came in less than estimate100% Restoration 100% complete. Final restoration not required100% Restoration 100% complete. Final restoration fee yet34% Restoration 100% complete. Restoration came in less than estimate.
37 38  FY2019 CIBS Program Totals 39  40  41 Estimated FY2018 Carry Ove 42 43	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actua Dried \$40 \$11 \$31 \$13 \$32 \$34 \$13	215,193  Lual Total ect Cost  40,611 11,568 31,173 36,768 \$0 55,348 34,057 17,143			Actual To Co \$59 \$11,6 \$28 \$211 \$46 \$100 \$330 \$100 \$333	tal Loaded ost 0,635 0,411 8,056 0,702 800 7,7536 6,610 0,691 80 0,519						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743	Estimate   Degradatio   \$0	ed Degrad	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517 stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611 \$11,568 \$31,173 \$136,768 \$0 -\$5,348 \$34,057 \$17,143 \$0	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -111% 52%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700	\$16,702,994 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743	Variance Comments  Variance Comments  Standard Variance W  Variance W  Variance Comments  Variance Comments  -32% Restoration 100% complete. Restoration actuals less than estimate.  -63% Restoration 100% complete. Restoration actuals less than estimate.  42% Restoration 100% complete. Restoration actuals less than estimate.  15% 3 Road crossings remaining for 2019. Slightly over budget.  -100% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filing.  -34% Restoration 100% complete. Restoration actuals less than estimate.  -56% Donovan and Wiggen restoration actuals less than estimate.  -100% Restoration 100% complete. Restoration not required.  -49% Restoration 100% complete. Not billed for degradation fee yet.  -34% Restoration 100% complete. Restoration came in less than estimate.  37% Restoration 100% complete. Restoration came in less than estimate.
37 38  FY2019 CIBS Program Totals  40  41 Estimated FY2018 Carry Ove  42 43	r Costs  Town Code  Street  CCD 25-50 Ridge Rd, CCD & Franklin St  CCD 1-10 Langdon Ave, CCD, S Main St  CCD 33-79 Downing St, CCD, Wheaton Ave  CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St  CCD 5-22 Chapel St, CCD  CCD Gladstone St, CCD  CCD Gladstone St, CCD  CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St  TIL 4-22 Peabody St, TIL, Cedar St & High St  MNC 167-323 Hanover St, MNC & Beech St  MNC 1-59 Plummer St, MNC, Union St & Pine St  MNC 1-89 Dionne Dr, MNC  MNC 160-411 Calef Rd, MNC  MNC 160-411 Calef Rd, MNC  MNC 135-189 Wilson St, MNC, Silver St & Harvard St				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actua Driec \$40 \$11 \$33 \$13 \$15 \$35 \$35 \$35 \$12 \$35 \$35 \$12 \$12 \$35 \$13 \$13 \$14 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15	215,193  Lal Total ect Cost 40,611 11,568 31,173 36,768 \$0 55,348 34,057 17,143 \$0 35,211 24,647 37,756 34,036 82,753			Actual To Co \$559 \$11,6 \$28 \$211 \$210 \$300 \$100 \$330 \$455 \$211 \$211	tal Loaded ost ,,635 ,,411 ,,056 ,,610 ,,610 ,,691 ,60 ,,519 ,8,743 ,,967 ,3,407 ,7,127						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127	Estimate   Degradatio   S0   \$0   \$0   \$0   \$0   \$0   \$59,110   \$0   \$59,70   \$53,10   \$16,95   \$16,95   \$83,07   \$116,95   \$83,07   \$83,07   \$186,95   \$83,07   \$186,95   \$83,07   \$186,95   \$83,07	ed Degrace  0 0 0 55 0 53 0 53	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517 \$timated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -11% 52% 36% -16%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964	\$16,702,994 \$340 \$340 \$340 \$340 \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127	Variance Comments    Claded Variance   Variance Comments
37 38  FY2019 CIBS Program Totals 39  40  41 Estimated FY2018 Carry Ove  Work Order #  42  43	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 7-89-855 Maple St, MNC, North St & Oak St				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actua Dried \$40 \$11 \$31 \$32 \$32 \$34 \$31 \$32 \$32 \$33 \$33 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	215,193  Lal Total ect Cost  40,611 11,568 13,173 136,768 50 155,348 134,057 17,143 50 135,211 124,647 137,756 134,036 182,753 164,788 15,978			Actual To Co \$59 \$11,6 \$28 \$211 \$46 \$10 \$330 \$100 \$333 \$455 \$211 \$144 \$194	tal Loaded ost 0,635 0,411 0,056 0,702 0.60 0,519 0,519 0,967 3,407 7,127 8,269 4,884						Total Recoverab Cost \$59,233,70  \$59,635 \$10,411 \$28,056 \$210,702 \$0 \$110,691 \$10,691 \$0 \$30,519 \$108,743 \$33,967	Estimate   Degradatio   \$0	ed Degrac  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517 stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611 \$11,568 \$31,173 \$136,768 \$0 \$-\$5,348 \$34,057 \$17,143 \$0 \$35,211 \$124,647 \$37,756 \$434,036 \$4182,753 \$164,788 \$215,978	ded Cost/Foot So	18%  Otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -1000% -41% -111% -552% -36% -16% -24% -18%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582	\$16,702,994 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884	Usriance Comments    Comments
37 38  FY2019 CIBS Program Totals 39  40  41 Estimated FY2018 Carry Ove 42 43	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC, North St & Oak St MNC 750-855 Chestnut St, MNC, Blodget St				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$51,590 \$35,375 \$0 \$59,800 \$0 \$0 \$0 \$0	\$7,797,35		Actua Dried \$40 \$11 \$31 \$32 \$32 \$34 \$31 \$32 \$32 \$33 \$33 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	215,193  Lal Total ect Cost  40,611 11,568 13,173 136,768 50 155,348 134,057 17,143 50 135,211 124,647 137,756 134,036 182,753 164,788 15,978			Actual To Co \$59 \$11,6 \$121 \$121 \$121 \$121 \$121 \$121 \$121 \$12	tal Loaded ost 0,635 0,411 0,056 0,702 0.00 0,519 8,743 0,967 3,407 7,7127 8,269 4,884 0,812						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$33,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812	Estimate Degradatio  \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	ed Degrac  00	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517 stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -111% -52% 36% -16% -24%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964	\$16,702,994 \$340 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812	Loaded Variance %  Restoration 100% complete. Restoration actuals less than estimate32% Restoration 100% complete. Restoration actuals less than estimate63% Restoration 100% complete. Restoration actuals less than estimate. 15% 3 Road crossings remaining for 2019. Slightly over budget100% Restoration 100% complete. Pastoration actuals less than estimate153% Restoration 100% complete. Pastoration actuals less than estimate153% Restoration 100% complete. Pastoration actuals less than estimate156% Donovan and Wiggen restoration actuals less than estimate100% Restoration 100% complete. Restoration not required49% Restoration 100% complete. Not billed for degradation fee yet34% Restoration 100% complete. Grind and inlay curb to curb required at moratorium tie in locations16% Restoration 100% complete. Restoration and degredation fee actuals were less than estimate10% Restoration 100% complete. Restoration and degredation fee yet37% Restoration 100% complete. Not billed for degradation fee yet37% Restoration 100% complete. Not billed for degradation fee yet.
FY2019 CIBS Program Totals   39	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 160-411 Calef Rd, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC, North St & Oak St MNC 8-74 Carpenter St, MNC & Blodget St MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St MNC 401-500 Laurel St, MNC, Chestnut St & Ray St				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$51,590 \$35,375 \$0 \$59,800 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$7,797,35		Actua Driec \$44 \$11 \$31 \$32 \$13 \$13 \$14 \$15 \$32 \$12 \$33 \$18 \$18 \$18 \$21 \$49 \$49	215,193  July Total ect Cost  40,611  11,568  31,173  36,768  \$0  55,348  34,057  17,143  \$0  35,211  24,647  37,756  34,036  82,753  64,788  15,978  17,764  92,367  31,360			Actual To Co \$59 \$11,6 \$10 \$28 \$210 \$510 \$510 \$510 \$510 \$510 \$510 \$510 \$5	tal Loaded ost						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0,691 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091	Estimate   Degradatio   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$	ed Degrad  00	\$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0	\$11,969,517 \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611 \$11,568 \$31,173 \$136,768 \$0 -\$5,348 \$34,036 \$35,211 \$124,647 \$37,756 \$434,036 \$182,753 \$164,788 \$215,978 \$17,764 \$492,367 \$81,360	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -1100% -41% -11% 52% 36% -16% -24% -16% -24% -18% -85% 6% -41%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065	\$16,702,994 \$340 \$340 \$340 \$340 \$340 \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091	Uariance Comments    Claded Variance Comments
37 38  FY2019 CIBS Program Totals 39 40 41 Estimated FY2018 Carry Ove 43	r Costs  Town Code  Street  CCD 25-50 Ridge Rd, CCD & Franklin St  CCD 1-10 Langdon Ave, CCD, S Main St  CCD 53-79 Downing St, CCD, Wheaton Ave  CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St  CCD 5-22 Chapel St, CCD  CCD Gladstone St, CCD  CCD Gladstone St, CCD  CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St  TIL 4-22 Peabody St, TIL, Cedar St & High St  MNC 167-323 Hanover St, MNC & Beech St  MNC 11-59 Plummer St, MNC, Union St & Pine St  MNC 7-89 Dionne Dr, MNC  MNC 160-411 Calef Rd, MNC  MNC 135-189 Wilson St, MNC, Silver St & Harvard St  MNC 750-855 Maple St, MNC & Union St  MNC 607-655 Chestnut St, MNC & Blodget St  MNC 8-74 Carpenter St, MNC, Chestnut St & Ray St  MNC 401-500 Laurel St, MNC  MNC 20-154 S Maple St, MNC & Oakdale Ave  MNC 560-604 Beech St, MNC & Oakdale Ave  MNC 560-604 Beech St, MNC & Oakdale Ave				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$50 \$0 \$50 \$5	\$7,797,35		Actua Driec \$40 \$11 \$31 \$31 \$32 \$32 \$31 \$32 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	215,193  Lal Total ect Cost  40,611 11,568 31,173 36,768 \$0 55,348 34,057 17,143 \$0 35,211 24,647 37,756 34,036 82,753 64,788 15,978 17,764 992,367 31,360 86,251 51,721			Actual To Co \$559 \$11,6 \$10 \$28 \$210 \$510 \$100 \$100 \$100 \$100 \$100 \$100 \$1	tal Loaded ost ,,635 ,,411 ,,956 ,,610 ,,519 ,,519 ,,8,743 ,,967 ,,7,127 ,8,269 ,4,884 ,8,812 ,4,680 ,,091 ,3,346 ,5,549						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 \$11,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549	Estimate   Degradatio   S0   S0   S0   S0   S0   S0   S0   S	ed Degrad  00	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517 stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753  \$164,788  \$215,978  \$17,764  \$492,367	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -52% 36% -16% -24% -18% -85% 66% -41% 54% 16%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149	\$16,702,994 \$340 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 \$0,517,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549	Uariance Comments  Loaded Variance %  -32% Restoration 100% complete. Restoration actuals less than estimate.  -63% Restoration 100% complete. Restoration actuals less than estimate.  -42% Restoration 100% complete. Restoration actuals less than estimate.  -15% Restoration 100% complete. Restoration actuals less than estimate.  -10% Restoration 100% complete. Paved by City.  -153% Restoration 100% complete. Paved by City.  -153% Restoration 100% complete. Paved by City.  -155% Restoration 100% complete. Restoration actuals less than estimate.  -56% Donovan and Wiggen restoration complete. Rockingham main and service 2018 project complete. Restoration actuals less than estimate.  -100% Restoration 100% complete. Not billed for degradation fee yet.  -34% Restoration 100% complete. Restoration came in less than estimate.  -100% Restoration 100% complete. Restoration came in less than estimate.  -10% Restoration 100% complete. Restoration and inlay curb to curb required at moratorium tie in locations.  -16% Restoration 100% complete. Restoration and degredation fee yet.  -24% Restoration 100% complete. Restoration and degredation fee yet.  -37% Restoration 100% complete. Not billed for degradation fee yet.  -37% Restoration 100% complete. Not billed for degradation fee yet.  -37% Restoration 100% complete. Not billed for degradation fee yet.  -39% Restoration 100% complete. Not billed for degradation fee yet.  -55% Restoration 100% complete. Within budget.  -55% Restoration 100% complete. Within budget.  -55% Restoration 100% complete. Not billed for degradation fee yet.  -85% Restoration 100% complete. Within budget.  -85% Restoration 100% complete. Not billed for degradation fee yet.  -85% Restoration 100% complete. Within budget.
FY2019 CIBS Program Totals   39	r Costs  Town Code  Street  CCD 25-50 Ridge Rd, CCD & Franklin St  CCD 1-10 Langdon Ave, CCD, S Main St  CCD 53-79 Downing St, CCD, Wheaton Ave  CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St  CCD 65-22 Chapel St, CCD  CCD Gladstone St, CCD  CCD Gladstone St, CCD  CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St  TIL 4-22 Peabody St, TIL, Cedar St & High St  MNC 167-323 Hanover St, MNC & Beech St  MNC 11-59 Plummer St, MNC, Union St & Pine St  MNC 7-89 Dionne Dr, MNC  MNC 160-411 Calef Rd, MNC  MNC 135-189 Wilson St, MNC, Silver St & Harvard St  MNC 750-855 Maple St, MNC, North St & Oak St  MNC 607-655 Chestnut St, MNC & Blodget St  MNC 8-74 Carpenter St, MNC  MNC 401-500 Laurel St, MNC  MNC 20-154 S Maple St, MNC  MNC 20-154 S Maple St, MNC  MNC 560-604 Beech St, MNC				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$51,590 \$59,800 \$0 \$0 \$0 \$145,400 \$0 \$10,015	\$7,797,35		Actua Driec \$40 \$11 \$31 \$31 \$32 \$32 \$31 \$32 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	215,193  Lal Total ect Cost  40,611 11,568 31,173 36,768 \$0 55,348 34,057 17,143 \$0 35,211 24,647 37,756 34,036 82,753 64,788 15,978 17,764 992,367 31,360 86,251 51,721			Actual To Co \$559 \$11,6 \$28 \$210 \$210 \$330 \$100 \$134 \$15,6 \$144 \$19,9 \$133 \$584 \$273 \$200 \$555 \$34	tal Loaded ost						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 \$11,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549	Estimate   Degradatio   S0   S0   S0   S0   S0   S0   S0   S	ed Degrad  00	\$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0	\$11,969,517 \$timated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611 \$11,568 \$31,173 \$136,768 \$0 -\$5,348 \$34,036 \$35,211 \$124,647 \$37,756 \$434,036 \$182,753 \$164,788 \$215,978 \$17,764 \$492,367 \$81,360	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% 52% 36% -16% -24% -18% -85% 66% -41% 54% 16% -62%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718	\$16,702,994 \$340 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 \$0,517,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549	Loaded Variance %  12 Loaded Variance %  132% Restoration 100% complete. Restoration actuals less than estimate. 143% Restoration 100% complete. Restoration actuals less than estimate. 143% Restoration 100% complete. Restoration actuals less than estimate. 143% 3 Road crossings remaining for 2019. Slightly over budget. 153% 3 Road crossings remaining for 2019. Slightly over budget. 153% Restoration 100% complete. Paved by City. 153% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filing. 134% Restoration 100% complete. Restoration actuals less than estimate. 156% Donovan and Wiggen restoration complete. Rockingham main and service 2018 project complete. Restoration actuals less than estimate. 100% Restoration 100% complete. Final restoration not required. 149% Restoration 100% complete. Not billed for degradation fee yet. 134% Restoration 100% complete. Degradation fee yet. 154% Restoration 100% complete. Grind and inlay curb to curb required at moratorium tie in locations. 156% Restoration 100% complete. Restoration and degredation fee actuals were less than estimate. 157% Restoration 100% complete. Not billed for degradation fee yet. 158% Restoration 100% complete. Not billed for degradation fee yet. 157% Restoration 100% complete. Not billed for degradation fee yet. 157% Restoration 100% complete. Not billed for degradation fee yet. 158% Restoration 100% complete. Not billed for degradation fee yet. 158% Restoration 100% complete. Not billed for degradation fee yet. 158% Restoration 100% complete. Not billed for degradation fee yet. 158% Restoration 100% complete. Not billed for degradation fee yet. 158% Restoration 100% complete. Not billed for degradation fee yet. 158% Restoration 100% complete. Not billed for degradation fee yet. 159% Restoration 100% complete. Not billed for degradation fee yet. 159% Restoration 100% complete. Not billed for degradation fee yet. 159% Restoration 100% complete. Not billed for degradation fee yet. 159% Restoration 100% complete. Not billed for degra
37 38  FY2019 CIBS Program Totals 39  40  41 Estimated FY2018 Carry Ove 42 43	r Costs  Town Code  Street  CCD 25-50 Ridge Rd, CCD & Franklin St  CCD 1-10 Langdon Ave, CCD, S Main St  CCD 53-79 Downing St, CCD, Wheaton Ave  CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St  CCD 5-22 Chapel St, CCD  CCD Gladstone St, CCD  CCD 65-112 Warren St, CCD  CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St  TIL 4-22 Peabody St, TIL, Cedar St & High St  MNC 167-323 Hanover St, MNC & Beech St  MNC 11-59 Plummer St, MNC, Union St & Pine St  MNC 7-89 Dionne Dr, MNC  MNC 135-189 Wilson St, MNC, Silver St & Harvard St  MNC 1-146 Orange St, MNC & Union St  MNC 750-855 Maple St, MNC, North St & Oak St  MNC 607-655 Chestnut St, MNC & Blodget St  MNC 401-500 Laurel St, MNC  MNC 20-154 S Maple St, MNC & Oakdale Ave  MNC 400-429 Wilson St, MNC, Cedar St  NAS 5-67 Williams St, NAS, Newbury St  NAS 14-38 Brook St, NAS, Newbury St  NAS 14-38 Brook St, NAS, Ash St & Lovell St				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$50 \$0 \$50 \$5	\$7,797,35		Actua Dried \$40 \$11 \$31 \$32 \$32 \$33 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	215,193  Lal Total ect Cost  40,611 11,568 13,173 136,768 \$0 155,348 134,057 17,143 \$0 135,211 124,647 137,756 134,036 182,753 164,788 15,978 17,764			Actual To Co \$59 \$11,6 \$59 \$10 \$28 \$211 \$30 \$100 \$33 \$455 \$11 \$144 \$194 \$194 \$588 \$73 \$200 \$558 \$344 \$266 \$326	tal Loaded ost						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953	Estimate   Degradatio   \$0	ed Degrad  00  00  00  00  50  90  90  90  90  90	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517  stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$18,698 \$465,841 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753  \$164,788  \$215,978  \$17,764  \$492,367  \$81,360  \$186,251  \$61,721  \$38,880  \$287,022  \$39,956	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -119% -52% 36% -16% -24% -18% -85% 6% -41% -54% -16% -62% -44% -81%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378	\$16,702,994 \$340 \$340 \$340 Actual Loaded Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539	Loaded Variance %  -32% Restoration 100% complete. Restoration actuals less than estimate63% Restoration 100% complete. Restoration actuals less than estimate63% Restoration 100% complete. Restoration actuals less than estimate42% Restoration 100% complete. Restoration actuals less than estimate155% 3 Road crossings remaining for 2019. Slightly over budget150% Restoration 100% complete. Paved by City153% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filing34% Restoration 100% complete. Restoration actuals less than estimate55% Openovan and Wiggen restoration complete. Restoration and main and service 2018 project complete. Restoration came in less than estimate100% Restoration 100% complete. Final restoration not required49% Restoration 100% complete. Restoration came in less than estimate19% Restoration 100% complete. Restoration are in less than estimate19% Restoration 100% complete. Restoration are in less than estimate19% Restoration 100% complete. Gegradation fee greater than estimate19% Restoration 100% complete. Restoration and degredation fee actuals were less than estimate19% Restoration 100% complete. Restoration and degredation fee actuals were less than estimate42% Restoration 100% complete. Restoration and degredation fee yet37% Restoration 100% complete. Not billed for degradation fee yet90% Restoration 100% complete. Not billed for degradation fee yet55% Restoration 100% complete. Not billed for degradation fee yet12% Restoration 100% complete. Not billed for degradation fee yet12% Restoration 100% complete. Still billed for degradation fee yet12% Restoration 100% complete. Still billed for degradation fee yet12% Restoration 100% complete. Still billed for degradation fee yet12% Restoration 100% complete. Still billed for degradation fee yet12% Restoration 100% complete. Still billed for degradation fee yet12% Restoration 100% complete. Still billed for degradation fee yet12% Restoration 100
FY2019 CIBS Program Totals   39	r Costs  Town Code  Street  CCD 25-50 Ridge Rd, CCD & Franklin St  CCD 1-10 Langdon Ave, CCD, S Main St  CCD 53-79 Downing St, CCD, Wheaton Ave  CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St  CCD 5-22 Chapel St, CCD  CCD Gladstone St, CCD  CCD Gladstone St, CCD  CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St  TIL 4-22 Peabody St, TIL, Cedar St & High St  MNC 167-323 Hanover St, MNC & Beech St  MNC 11-59 Plummer St, MNC, Union St & Pine St  MNC 135-189 Wilson St, MNC  MNC 135-189 Wilson St, MNC, Silver St & Harvard St  MNC 7-89 Solone Dr, MNC  MNC 1-146 Orange St, MNC & Union St  MNC 750-855 Maple St, MNC, North St & Oak St  MNC 607-655 Chestnut St, MNC & Blodget St  MNC 8-74 Carpenter St, MNC  MNC 20-154 S Maple St, MNC & Oakdale Ave  MNC 560-604 Beech St, MNC  MNC 400-429 Wilson St, MNC, Sedar St  NAS 5-67 Williams St, NAS, Newbury St				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actual Price	215,193  Lal Total ect Cost  40,611 11,568 831,173 36,768 \$0 55,348 834,057 117,143 \$0 85,211 24,647 837,756 34,036 82,753 64,788 15,978 17,764 92,367 81,360 86,251 51,721 88,880 887,022 39,956 21,439 49,422			Actual To Co \$59 \$11,6 \$10 \$28 \$21 \$10 \$33 \$30 \$100 \$100 \$11 \$13 \$584 \$21 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11	tal Loaded ost						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 \$108,743 \$30,519 \$108,743 \$33,967 \$4453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539	Estimate   Degradatio   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$	ed Degrac  00  00  00  00  00  00  55  00  50  00  55  00  50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517  stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611 \$11,568 \$31,173 \$136,768 \$0 \$55,348 \$34,057 \$17,143 \$0 \$35,211 \$124,647 \$37,756 \$434,036 \$182,753 \$164,788 \$215,978 \$17,764 \$492,367 \$81,360 \$186,251 \$61,721 \$38,880 \$2287,022	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -11% -52% 36% -16% -24% -18% -85% 6% -41% -54% 16% -62% 44%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282	\$16,702,994 \$340  \$340  \$340  Actual Loaded Cost  \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953 \$196,035 \$458,792	Loaded Variance %  Loaded Variance S  Restoration 100% complete. Restoration actuals less than estimate.  -63% Restoration 100% complete. Restoration actuals less than estimate.  -42% Restoration 100% complete. Restoration actuals less than estimate.  -42% Restoration 100% complete. Restoration actuals less than estimate.  153% 3 Road crossings remaining for 2019. Slightly over budget.  -100% Restoration 100% complete. Paved by City.  -153% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filling.  -34% Restoration 100% complete. Restoration actuals less than estimate.  -55% Ononvan and Wiggen restoration complete. Restoration actuals less than estimate.  -100% Restoration 100% complete. For Restoration actuals less than estimate.  -49% Restoration 100% complete. Not billed for degradation fee yet.  -34% Restoration 100% complete. Restoration came in less than estimate.  -37% Restoration 100% complete. Restoration came in less than estimate.  -199 Restoration 100% complete. Restoration came in less than estimate.  -199 Restoration 100% complete. Restoration and degredation fee yet.  -24% Restoration 100% complete. Restoration and degredation fee actuals were less than estimate.  -16% Restoration 100% complete. Not billed for degradation fee yet.  -27% Restoration 100% complete. Not billed for degradation fee yet.  -37% Restoration 100% complete. Not billed for degradation fee yet.  -55% Restoration 100% complete. Not billed for degradation fee yet.  -55% Restoration 100% complete. Not billed for degradation fee yet.  -27% Restoration 100% complete. Sightly over budget. Not billed for degradation fee yet.  -27% Restoration 100% complete. Final Restoration came in over estimate. Bid unit used for final restoration greater than estimate.  -88% Partially completed restoration in 2018. Restoration remaining for 2019  10% Restoration 100% complete rinal Restoration came in over estimate. Bid unit used for final restoration greater than estimate.  -88% Partially completed restoration in 2018. Re
FY2019 CIBS Program Totals   39	r Costs  Town Code  Street  CCD 25-50 Ridge Rd, CCD & Franklin St  CCD 1-10 Langdon Ave, CCD, S Main St  CCD 53-79 Downing St, CCD, Wheaton Ave  CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St  CCD 5-22 Chapel St, CCD  CCD Gladstone St, CCD  CCD 65-112 Warren St, CCD  CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St  TIL 4-22 Peabody St, TIL, Cedar St & High St  MNC 167-323 Hanover St, MNC & Beech St  MNC 11-59 Plummer St, MNC, Union St & Pine St  MNC 7-89 Dionne Dr, MNC  MNC 135-189 Wilson St, MNC, Silver St & Harvard St  MNC 1-146 Orange St, MNC & Union St  MNC 750-855 Maple St, MNC, North St & Oak St  MNC 607-655 Chestnut St, MNC & Blodget St  MNC 401-500 Laurel St, MNC  MNC 20-154 S Maple St, MNC & Oakdale Ave  MNC 400-429 Wilson St, MNC, Cedar St  NAS 5-67 Williams St, NAS, Newbury St  NAS 14-38 Brook St, NAS, Ash St & Lovell St  NAS 4-26 Nutt St, NAS, Buchanan St & Faxon St				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932    Degredatio     Fees	\$7,797,35		Actua Driece \$40 \$13 \$33 \$13 \$35 \$32 \$32 \$33 \$43 \$18 \$18 \$18 \$49 \$81 \$18 \$32 \$49 \$49 \$49 \$49 \$49 \$49 \$49 \$49 \$49 \$49	215,193  Lal Total ect Cost  40,611 11,568 131,173 136,768 50 155,348 134,057 17,143 50 135,211 124,647 137,756 134,036 15,978 17,764 192,367 13,360 15,978 17,764 17,764 192,367 13,360 16,721 138,880 16,721 138,880 187,022 189,956 181,439 189,422 151,984			Actual To Co \$59 \$11,6 \$59 \$10 \$28 \$211 \$30 \$100 \$33 \$455 \$211 \$114 \$194 \$194 \$134 \$588 \$733 \$200 \$555 \$334 \$266 \$322 \$190 \$455	tal Loaded ost						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953 \$196,035 \$458,792 \$144,056	Estimate   Degradatio   \$0	ed Degrace  00 Degrace  00 S5 00 S3 00 S5 00 S5 00 S1 00 S1 00 S1 00 S2	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517  stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$518,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160 \$180,484	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753  \$164,788  \$215,978  \$17,764  \$492,367  \$81,360  \$186,251  \$61,721  \$38,880  \$287,022  \$39,956  \$221,439  \$449,422  \$151,984	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -111% -52% 36% -16% -24% -18% -85% 6% -41% -62% 44% -81% 61% 79% -16%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	\$16,702,994 \$340 \$340 \$340 \$340 \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953 \$196,035 \$458,792 \$144,056	Variance %  Variance Comments  32
FY2019 CIBS Program Totals   39	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC & Union St MNC 8-74 Carpenter St, MNC, North St & Oak St MNC 607-655 Chestnut St, MNC & Blodget St MNC 401-500 Laurel St, MNC MNC 20-154 S Maple St, MNC & Oakdale Ave MNC 500-604 Beech St, MNC MNC 400-429 Wilson St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 75-235 Lake St, NAS				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$51,590 \$51,590 \$559,800 \$0 \$0 \$0 \$145,400 \$0 \$10,015 \$0 \$23,295 \$0 \$0 \$0 \$0 \$0	\$7,797,35		Actua Driec \$40 \$13 \$33 \$13 \$35 \$32 \$32 \$33 \$43 \$18 \$18 \$16 \$21 \$31 \$32 \$33 \$43 \$33 \$43 \$33 \$43 \$33 \$43 \$34 \$34	215,193  Lal Total ect Cost  40,611 11,568 831,173 36,768 \$0 55,348 834,057 117,143 \$0 85,211 24,647 837,756 34,036 82,753 64,788 15,978 17,764 92,367 81,360 86,251 51,721 88,880 887,022 39,956 21,439 49,422			Actual To Co \$59 \$11,6 \$59 \$10 \$28 \$211 \$30 \$100 \$33 \$455 \$211 \$114 \$194 \$194 \$134 \$588 \$733 \$200 \$555 \$334 \$266 \$322 \$190 \$455	tal Loaded ost						Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$03,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,538 \$34,982 \$260,538 \$32,953 \$196,035	Estimate   Degradatio   \$0	ed Degrace  00 Degrace  00 S5 00 S3 00 S5 00 S5 00 S1 00 S1 00 S1 00 S2	\$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0	\$11,969,517 \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$18,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753  \$164,788  \$215,978  \$17,764  \$492,367  \$81,360  \$186,251  \$38,880  \$287,022  \$39,956  \$221,439  \$449,422	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -11% 52% 36% -16% -24% -16% -24% -41% 55% 66% -41% -41% 55% 66% -41% 54% 16% -62% 44% -81% 61% 79%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508	\$16,702,994 \$340 \$340 \$340 \$340 \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953 \$196,035 \$458,792 \$144,056	Loaded Variance %  Loaded Variance S  Restoration 100% complete. Restoration actuals less than estimate.  -63% Restoration 100% complete. Restoration actuals less than estimate.  -42% Restoration 100% complete. Restoration actuals less than estimate.  -42% Restoration 100% complete. Restoration actuals less than estimate.  153% 3 Road crossings remaining for 2019. Slightly over budget.  -100% Restoration 100% complete. Paved by City.  -153% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filling.  -34% Restoration 100% complete. Restoration actuals less than estimate.  -55% Ononvan and Wiggen restoration complete. Restoration actuals less than estimate.  -100% Restoration 100% complete. For Restoration actuals less than estimate.  -49% Restoration 100% complete. Not billed for degradation fee yet.  -34% Restoration 100% complete. Restoration came in less than estimate.  -37% Restoration 100% complete. Restoration came in less than estimate.  -199 Restoration 100% complete. Restoration came in less than estimate.  -199 Restoration 100% complete. Restoration and degredation fee yet.  -24% Restoration 100% complete. Restoration and degredation fee actuals were less than estimate.  -16% Restoration 100% complete. Not billed for degradation fee yet.  -27% Restoration 100% complete. Not billed for degradation fee yet.  -37% Restoration 100% complete. Not billed for degradation fee yet.  -55% Restoration 100% complete. Not billed for degradation fee yet.  -55% Restoration 100% complete. Not billed for degradation fee yet.  -27% Restoration 100% complete. Sightly over budget. Not billed for degradation fee yet.  -27% Restoration 100% complete. Final Restoration came in over estimate. Bid unit used for final restoration greater than estimate.  -88% Partially completed restoration in 2018. Restoration remaining for 2019  10% Restoration 100% complete rinal Restoration came in over estimate. Bid unit used for final restoration greater than estimate.  -88% Partially completed restoration in 2018. Re
FY2019 CIBS Program Totals   39	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC & Union St MNC 8-74 Carpenter St, MNC, North St & Oak St MNC 607-655 Chestnut St, MNC & Blodget St MNC 401-500 Laurel St, MNC MNC 20-154 S Maple St, MNC & Oakdale Ave MNC 500-604 Beech St, MNC MNC 400-429 Wilson St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 75-235 Lake St, NAS				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932    Degredatio     Fees	\$7,797,35		Actua Driec \$40 \$13 \$33 \$13 \$35 \$32 \$32 \$33 \$43 \$18 \$18 \$16 \$21 \$31 \$32 \$33 \$43 \$33 \$43 \$33 \$43 \$33 \$43 \$34 \$34	215,193  Lal Total ect Cost  40,611 11,568 131,173 136,768 50 155,348 134,057 17,143 50 135,211 124,647 137,756 134,036 15,978 17,764 192,367 13,360 15,978 17,764 17,764 192,367 13,360 16,721 138,880 16,721 138,880 187,022 189,956 181,439 189,422 151,984			Actual To Co \$59 \$11,6 \$59 \$10 \$28 \$211 \$30 \$100 \$33 \$455 \$211 \$114 \$194 \$194 \$134 \$588 \$733 \$200 \$555 \$334 \$266 \$322 \$190 \$455	tal Loaded ost	% \$656,83	30		\$8,175,782	\$1,057,920	Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953 \$196,035 \$458,792 \$144,056	Estimate   Degradatio   \$0	ed Degrace  00 Degrace  00 S5 00 S3 00 S5 00 S5 00 S1 00 S1 00 S1 00 S2	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517  stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$518,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160 \$180,484	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753  \$164,788  \$215,978  \$17,764  \$492,367  \$81,360  \$186,251  \$61,721  \$38,880  \$287,022  \$39,956  \$221,439  \$449,422  \$151,984	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -111% -52% 36% -16% -24% -18% -85% 6% -41% -62% 44% -81% 61% 79% -16%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	\$16,702,994 \$340 \$340 \$340 \$340 \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953 \$196,035 \$458,792 \$144,056	Variance %  Variance Comments  32
FY2019 CIBS Program Totals   39	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC & Union St MNC 8-74 Carpenter St, MNC, North St & Oak St MNC 607-655 Chestnut St, MNC & Blodget St MNC 401-500 Laurel St, MNC MNC 20-154 S Maple St, MNC & Oakdale Ave MNC 500-604 Beech St, MNC MNC 400-429 Wilson St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 75-235 Lake St, NAS				49,115	2,710	18,206	3.05 52,345						6 742	\$157,932    Degredatio     Fees	\$7,797,35		Actua Driec \$40 \$13 \$33 \$13 \$35 \$32 \$32 \$33 \$43 \$18 \$18 \$16 \$21 \$31 \$32 \$33 \$43 \$33 \$43 \$33 \$43 \$33 \$43 \$34 \$34	215,193  Lal Total ect Cost  40,611 11,568 131,173 136,768 50 155,348 134,057 17,143 50 135,211 124,647 137,756 134,036 15,978 17,764 192,367 13,360 15,978 17,764 17,764 192,367 13,360 16,721 138,880 16,721 138,880 187,022 189,956 181,439 189,422 151,984			Actual To Co \$59 \$11,6 \$59 \$10 \$28 \$211 \$30 \$100 \$33 \$455 \$211 \$114 \$194 \$194 \$134 \$588 \$733 \$200 \$555 \$334 \$266 \$322 \$190 \$455	tal Loaded ost	% \$656,83	30	\$1,722,716	\$8,175,782	\$1,057,920	Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$33,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,265 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,538 \$31,953 \$196,035 \$458,792 \$144,056 \$3,593,32 ed \$778,739	Estimate   Degradatio   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$	ed Degrace  00 Degrace  00 S5 00 S3 00 S5 00 S5 00 S1 00 S1 00 S1 00 S2	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517  stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$518,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160 \$180,484	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753  \$164,788  \$215,978  \$17,764  \$492,367  \$81,360  \$186,251  \$61,721  \$38,880  \$287,022  \$39,956  \$221,439  \$449,422  \$151,984	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -111% -52% 36% -16% -24% -18% -85% 6% -41% -62% 44% -81% 61% 79% -16%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$119,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629	\$16,702,994 \$340 \$340 \$340 \$340 \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953 \$196,035 \$458,792 \$144,056	Variance %  Variance Comments  32
FY2019 CIBS Program Totals   39	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC & Union St MNC 8-74 Carpenter St, MNC, North St & Oak St MNC 607-655 Chestnut St, MNC & Blodget St MNC 401-500 Laurel St, MNC MNC 20-154 S Maple St, MNC & Oakdale Ave MNC 500-604 Beech St, MNC MNC 400-429 Wilson St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 75-235 Lake St, NAS				9.30 49,115 9.30	0.29	2.04  18,206  3.45	3.05 52,345 9.91		13	146 46	270		6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$51,590 \$35,375 \$0 \$59,800 \$0 \$0 \$145,400 \$0 \$10,015 \$0 \$23,295 \$0 \$0 \$0 \$0 \$\$0 \$\$0 \$\$0 \$\$0 \$\$0 \$\$0 \$\$	\$7,797,35	\$2,417	Actual Price   \$44   \$13   \$31   \$32   \$43   \$14   \$44   \$15   \$49   \$40   \$50	215,193  July Total ect Cost  40,611  11,568  31,173  36,768  \$0  55,348  34,057  17,143  \$0  35,211  24,647  37,756  34,036  82,753  64,788  15,978  17,764  92,367  81,360  86,251  51,721  38,880  87,022  39,956  21,439  49,422  51,984  489,308			Actual To Co \$59 \$11,6 \$11,6 \$28 \$211 \$211 \$33 \$33 \$455 \$211 \$144 \$3,55	tal Loaded ost	% \$656,83	of Estimated Co	\$1,722,716  \$1,722,716  osts for the FY2018  Total F	\$8,175,782	\$1,057,920	Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$33,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,265 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,538 \$31,953 \$196,035 \$458,792 \$144,056 \$3,593,32 ed \$778,739	Estimate   Degradatio   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$	ed Degrace  00 Degrace  00 S5 00 S3 00 S5 00 S5 00 S1 00 S1 00 S1 00 S2	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517  stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$318,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160 \$180,484 \$3,676,187	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753  \$164,788  \$215,978  \$17,764  \$492,367  \$81,360  \$186,251  \$61,721  \$38,880  \$227,022  \$39,956  \$221,439  \$449,422  \$151,984	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -111% -52% 36% -16% -24% -18% -85% 6% -41% -62% 44% -81% 61% 79% -16%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$117,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629 \$4,508,297	\$16,702,994 \$340  \$340  Actual Loaded Cost  \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953 \$196,035 \$458,792 \$144,056 \$3,593,321	Loaded Variance %  Restoration 100% complete. Restoration actuals less than estimate.  6-33% Restoration 500% complete. Restoration actuals less than estimate.  8-42% Restoration 500% complete. Restoration actuals less than estimate.  15% 3 Road crossings remaining for 2019. Slightly over budget.  15% 3 Road crossings remaining for 2019. Slightly over budget.  1-100% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filling.  3-34% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filling.  3-34% Restoration 100% complete. Restoration actuals less than estimate.  5-56% Donovan and Wiggen restoration complete. Rockingham main and service 2018 project complete. Restoration came in less than estimate.  1-100% Restoration 100% complete. Final restoration not required.  3-49% Restoration 100% complete. Restoration came in less than estimate.  1-24% Restoration 100% complete. Restoration came in less than estimate.  1-25% Restoration 100% complete. Restoration actuals less than estimate.  1-26% Restoration 100% complete. Restoration actuals in less than estimate.  1-26% Restoration 100% complete. Restoration and regeret than estimate.  1-27% Restoration 100% complete. Rock like for degradation fee yet.  3-27% Restoration 100% complete. Rock like for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoratio
FY2019 CIBS Program Totals   39	r Costs  Town Code  CCD 25-50 Ridge Rd, CCD & Franklin St CCD 1-10 Langdon Ave, CCD, S Main St CCD 53-79 Downing St, CCD, Wheaton Ave CCD 76-113 School St, CCD, Centre St, Liberty St & Merrimack St CCD 5-22 Chapel St, CCD CCD Gladstone St, CCD CCD 65-112 Warren St, CCD CCD 65-112 Warren St, CCD CCD 13-42 Rockingham St, CCD, Donovan St & Wiggin St TIL 4-22 Peabody St, TIL, Cedar St & High St MNC 167-323 Hanover St, MNC & Beech St MNC 11-59 Plummer St, MNC, Union St & Pine St MNC 7-89 Dionne Dr, MNC MNC 135-189 Wilson St, MNC, Silver St & Harvard St MNC 1-146 Orange St, MNC & Union St MNC 750-855 Maple St, MNC & Union St MNC 8-74 Carpenter St, MNC, North St & Oak St MNC 607-655 Chestnut St, MNC & Blodget St MNC 401-500 Laurel St, MNC MNC 20-154 S Maple St, MNC & Oakdale Ave MNC 500-604 Beech St, MNC MNC 400-429 Wilson St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 14-38 Brook St, NAS, Newbury St NAS 75-235 Lake St, NAS				9.30 49,115 9.30	0.29	2.04  18,206  3.45	3.05 52,345 9.91		13	146 46	270		6 742	\$157,932  Degredatio Fees \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$51,590 \$35,375 \$0 \$59,800 \$0 \$0 \$145,400 \$0 \$10,015 \$0 \$23,295 \$0 \$0 \$0 \$0 \$\$0 \$\$0 \$\$0 \$\$0 \$\$0 \$\$0 \$\$	\$7,797,35	\$2,417	Actual Price   \$44   \$13   \$31   \$32   \$43   \$14   \$44   \$15   \$49   \$40   \$50	215,193  July Total ect Cost  40,611  11,568  31,173  36,768  \$0  55,348  34,057  17,143  \$0  35,211  24,647  37,756  34,036  82,753  64,788  15,978  17,764  92,367  81,360  86,251  51,721  38,880  87,022  39,956  21,439  49,422  51,984  489,308			Actual To Co \$59 \$11,6 \$11,6 \$28 \$211 \$211 \$33 \$33 \$455 \$211 \$144 \$3,55	tal Loaded ost	% \$656,83	of Estimated Co	\$1,722,716	\$8,175,782	\$1,057,920	Total Recoverab Cost \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$33,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,265 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,538 \$31,953 \$196,035 \$458,792 \$144,056 \$3,593,32 ed \$778,739	Estimate   Degradatio   \$0	ed Degrace  00 Degrace  00 S5 00 S3 00 S5 00 S5 00 S1 00 S1 00 S1 00 S2	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$11,969,517  stimated Direct Co \$67,234 \$21,719 \$37,103 \$140,881 \$23,541 \$27,744 \$54,483 \$518,692 \$67,469 \$59,700 \$139,507 \$24,870 \$319,975 \$217,604 \$216,174 \$262,614 \$118,698 \$465,841 \$138,229 \$120,960 \$53,351 \$101,506 \$199,448 \$209,522 \$137,678 \$251,160 \$180,484	\$14,164,108  Average Loa  \$14,164,108  Average Loa  \$40,611  \$11,568  \$31,173  \$136,768  \$0  -\$5,348  \$34,057  \$17,143  \$0  \$35,211  \$124,647  \$37,756  \$434,036  \$182,753  \$164,788  \$215,978  \$17,764  \$492,367  \$81,360  \$186,251  \$61,721  \$38,880  \$287,022  \$39,956  \$221,439  \$449,422  \$151,984	ded Cost/Foot So	18%  otal  Variance %  -40% -47% -16% -3% -100% -119% -37% -8% -100% -41% -111% -52% 36% -16% -24% -18% -85% 6% -41% -62% 44% -81% 61% 79% -16%	\$382 \$15,574,776 \$298 Estimated Loaded Cost \$87,404 \$28,235 \$48,234 \$183,145 \$30,603 \$33,334 \$70,828 \$24,300 \$90,420 \$59,700 \$165,429 \$24,870 \$380,871 \$257,964 \$254,665 \$310,582 \$140,258 \$555,149 \$164,065 \$143,718 \$62,981 \$117,763 \$259,282 \$272,378 \$178,982 \$326,508 \$234,629 \$4,508,297	\$16,702,994 \$340 \$340 \$340 \$340 \$59,635 \$10,411 \$28,056 \$210,702 \$0 -\$17,536 \$46,610 \$10,691 \$0 \$30,519 \$108,743 \$33,967 \$453,407 \$217,127 \$148,269 \$194,884 \$13,812 \$584,680 \$73,091 \$203,346 \$55,549 \$34,982 \$260,539 \$32,953 \$196,035 \$458,792 \$144,056	Loaded Variance %  Restoration 100% complete. Restoration actuals less than estimate.  6-33% Restoration 500% complete. Restoration actuals less than estimate.  8-42% Restoration 500% complete. Restoration actuals less than estimate.  15% 3 Road crossings remaining for 2019. Slightly over budget.  15% 3 Road crossings remaining for 2019. Slightly over budget.  1-100% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filling.  3-34% Restoration 100% complete. Adjusted 2018 CIBS over accrual in 2019 CIBS filling.  3-34% Restoration 100% complete. Restoration actuals less than estimate.  5-56% Donovan and Wiggen restoration complete. Rockingham main and service 2018 project complete. Restoration came in less than estimate.  1-100% Restoration 100% complete. Final restoration not required.  3-49% Restoration 100% complete. Restoration came in less than estimate.  1-24% Restoration 100% complete. Restoration came in less than estimate.  1-25% Restoration 100% complete. Restoration actuals less than estimate.  1-26% Restoration 100% complete. Restoration actuals in less than estimate.  1-26% Restoration 100% complete. Restoration and regeret than estimate.  1-27% Restoration 100% complete. Rock like for degradation fee yet.  3-27% Restoration 100% complete. Rock like for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. Not billed for degradation fee yet.  3-27% Restoration 100% complete. 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Total Recoverable Costs Disregarding 5% Carryover Cap \$12,827,024

Total Unrecoverable Costs in Program \$2,379,546 Carryover Costs in Excess of 5% Cap \$2,814,582



Michael J. Sheehan, Esq. Senior Counsel Phone: 603-724-2135 Email: Michael.Sheehan@libertyutilities.com

December 21, 2018

#### Via First-Class and Electronic Mail

Randall S. Knepper, Director, Safety Division New Hampshire Public Utilities Commission 21 South Fruit Street, Suite 10 Concord, New Hampshire 03301-2429

Re: 2018 Marketing Report

Dear Mr. Knepper:

I write to provide the marketing report required by the last CIBS order, "that Liberty provide Staff with a report by the end of 2018 documenting the results of its market research and marketing efforts conducted during the 2019 CIBS year and its plan for marketing to new customers going forward." Order No. 26,154 at 7 (June 29, 2018). Following is the responsive information. Let me know if you have any questions.

For the 2018 CIBS campaign, Liberty sent letters to every one of the 1,642 households along the CIBS routes. The letters were sent to both current customers and to potential customers. Of the 1,642 households who received the letters, 1,490 were already natural gas customers, so only 152 households along the 2017 CIBS routes were not customers. Thus, these routes already had a saturation rate of 91%.

Out of the 152 letters that were sent to non-customers, we received 19 responses. Of those 19 potential customers who responded, 15 signed contracts for gas service with Liberty Utilities. Nine of those meters have been turned on. The other six contracted customers should have meters installed by the end of calendar year 2019.

Liberty also conducted the following marketing efforts in 2018:

- 1) Sent approximately 500 letters to potential customers adjacent to gas main and service extension projects that were constructed in 2017 and/or early 2018;
- 2) Sent approximately 450 letters to on-main potential customers whose neighbors recently converted to natural gas;
- 3) Sent approximately 2,500 letters to homeowners in neighborhoods where the Company is trying to extend its natural gas distribution system;

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities
Docket No. DG 19-054
Attachment SDF/BRF-3
Page 2 of 2

Randall S. Knepper December 21, 2018 Page 2

- 4) Hung approximately 500 door hangers in neighborhoods where the Company is trying to extend its natural gas distribution system; and
- 5) Conducted numerous in person neighborhood meetings in areas where the Company is trying to extend its natural gas distribution system.

The overall sales and marketing efforts yielded impressive results. Liberty added about 1,200 customers in 2014, 1,817 new customers in 2015, 1,637 new customers in 2016, 1,621 new customers in 2017, and 1,272 new customers in 2018. By comparison, the predecessor company averaged about 600 new customers each year. The calendar year 2018 growth required about 17 miles of new main and 818 new services.

The Company intends to engage in a similar marketing campaign during the 2019 calendar year.

Please let me know if you need any other information.

Sincerely,

Michael J. Sheehan

Millian

Cc: Lynn Fabrizio, Esq. Brian Buckley, Esq.



«Date»

«Customer\_First\_Name\_» «Customer\_Last\_Name\_»
Or Current Resident
«House\_\_» «Street\_Name\_» «Suffix\_» «Unit\_Type» «Unit\_»
«Town\_», «State» 0«Zip\_»

Este é um aviso importante. Queira mandá-lo traduzir. Este es un aviso importante. Sírvase mandarlo traducir. Avis important. Veuillez traduire immediatement.

Questa è un' informazione importante, si prega di tradurla.

ĐÂY LÀ MỘT BẨN THÔNG CÁO QUAN TRONG XIN VUI LÒNG CHO DỊCH LẠI THÔNG CÁO ÂÝ

Это очень важное сообщение. Пожалуйста, попросите чтобы вам его перевели.

Dear «Customer\_First\_Name\_»,

This is an important notice to inform you that Liberty Utilities will be working in your neighborhood to maintain the integrity and reliability of our natural gas distribution system. This work is scheduled to begin this spring/summer and will generally take place from 7:00 a.m. – 4:00 p.m., Monday-Saturday. We apologize in advance for any inconvenience, but this project is part of our commitment to provide continuous improvements and keep the natural gas delivery system safe and reliable.

- Liberty Utilities and/or a qualified contractor will perform the work. A police detail will be provided, if necessary. The road will be open to the public and parking may be limited. A construction foreman, with appropriate identification, will be on site to address your parking needs throughout the duration of the construction.
- There may be a lag between temporary and permanent restoration of the street and sidewalk, depending on weather and ground conditions.

If you have any questions about the project, please call Construction Supervisor «Construction\_Employee\_Name\_» at «Construction\_Employee\_Phone\_Number\_». For general inquiries, customer service can be reached between the hours of 9:00 a.m. and 5:00 p.m. Monday through Friday at 1-800-833-4200.

#### **NOT A LIBERTY UTILITIES GAS CUSTOMER?**

If you do not currently have natural gas, now is the best time to make the switch. Please note that if your street is repaved after the work has completed, we will not be able to run a gas service to your home for a MINIMUM of 5 years. For further information about converting to natural gas, call **1-800-833-4200** and press option 5.

Sincerely,

**Liberty Utilities** 



**Date** 

Current Resident

«House\_\_\_» N «Street\_Name\_» «Suffix\_» «Unit\_Type» «Unit\_»

«Town\_», «State» «Zip\_»

Dear Resident,

This is the second notice to inform you that Liberty Utilities will be working on your street this summer to maintain the integrity and reliability of our natural gas distribution system. **Our records indicate you are not currently using natural gas**.

Please note that due to a recent change in state ruling, all homes not utilizing natural gas along work routes are now qualified to have a \$4,200 service line installed at their property 100% FREE OF CHARGE for any gas appliance connected. This means you will not be required to convert your heating system. Installing a gas fireplace, water heater, dryer or stove is a cost effective way to qualify for this offer.

Upon receipt of this letter, it is imperative you contact us right away so you do not miss out of this opportunity. For additional questions or to relay your interest, we can be reached by phone at 1-800-833-4200 option 5. We can also be reached by email at <a href="Missalesmarketing@libertyutilities.com">NHsalesmarketing@libertyutilities.com</a>. Our Account Managers welcome the opportunity to discuss your needs, and help you determine if natural gas is the right choice for you.

Sincerely,

**Liberty Utilities**