

Worcester, Massachusetts

DEPARTMENT OF PUBLIC WORKS AND PARKS
WATER OPERATIONS

* * * *

BID AND SPECIFICATIONS

FOR

**MISCELLANEOUS
MAINTENANCE OF WATER
SERVICES AND PUBLIC FIRE
HYDRANTS # 231-16**

Bid # 6626-W6

August 2016

**MISCELLANEOUS REHABILITATION OF WATER SERVICES
AND PUBLIC FIRE HYDRANTS # 231-16
BID # 6626-W6**

TABLE OF CONTENTS

Description	Page
Title Sheet	
Table of Contents	2
Information for Bidders (General)	3 - 5
Special Provisions	6 - 8
Proposal	9 - 14
Liquidated Damages	15
References	16

**MISCELLANEOUS REHABILITATION OF WATER SERVICES
AND PUBLIC FIRE HYDRANTS # 231-16
BID # 6626-W6**

INFORMATION FOR BIDDERS

This Contract shall consist of miscellaneous maintenance activities on the City of Worcester's public water distribution system including but not limited to the rehabilitation of small diameter water services and the replacement of old, obsolete public fire hydrants. This may include (but not limited to) the relay or replacement of portions of water services, the installation of curb stop shut off valves, the adjustment of water service and gate boxes, the abandoning of water services or connections, the installation of new water services and the replacement or installation of hydrants at various locations in the City of Worcester. While much of this work will be done in anticipation of street reconstruction (private street conversion) or the City's street resurfacing program, the City may request work at any location based on the immediate needs of the City. The contractor may be requested to respond to emergency situations such as service leaks, accidents involving hydrants or in winter frozen lines or services, where the City cannot or is unable to respond in a timely manner. A portion of the known construction areas are listed below, however, this is by no means a complete list. The City reserves the right to add or delete locations as needed. No guarantee of continuous work during the season is made.

STREET	LIMITS
Bay Edge Drive	Entire
Blaine Avenue	Entire
Blossom Street	Russell St to Hudson St
Caroline Street	Entire Public Portion
Denny Street	Dix St to Highland St
Ellsmere Street	Adams St to Elliot St
Greendale Avenue	Entire
Hamilton Street	Grafton St to #36 Hamilton St
Hermon Street	Southbridge St to Lamartine St
Lamartine Street	Hermon St to Quinsigamond Ave Clark St to 200' south of Monomoy St
Longmeadow Avenue	St
Main Street	Hawthorne St to Beaver St

Palisades Street	Hamilton St to Touraine St
Robin Road	Plantation St to Clarendon St
Sever Street	Highland St to Elm St
Suburban Road	Highland St to Newton Ave
Tower Street	Hastings Ave to Scrimgeour Rd
Westborough Street	Sunderland Rd to Pinecrest Dr
Whitla Drive	Entire

NOTE: Quantities included in this bid reflect our best estimate of work to be done during one full construction season and are given for planning purposes only. **NO GUARANTEE OF ANY LOCATIONS OR QUANTITIES TO BE DONE IS MADE.** Actual quantities of work to be completed could be greater or less and is dependent on funding available and the needs of various divisions of The City of Worcester DPW&P. NO guarantee is made as the quantity of work to be done on a given street or under any given item.

NOTE: In addition to the streets listed above funding has been included in this bid to do Water Service and Hydrant Rehabilitation in several additional residential streets to be named later. All work to be done under these yet to be named streets shall be done at contract bid unit prices

CITY OF WORCESTER DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS & DETAILS VERSION 02-02-2016 and all the latest revisions APPLY to all listed work.

These specifications are available at:

<http://www.worcesterma.gov/e-services/document-center/engineering>

or at the DPW&P web location at:

<http://www.worcesterma.gov/dpw/engineering>

or they are also available directly at DPW&P 20 East Worcester St., Worcester MA Monday through Friday 7:30 AM through 4:00 PM.

The Contractor shall have adequate manpower to rehabilitate individual water services or hydrants completely in a given street within a specified time to allow for the reconstruction and paving of streets in a timely manner. **This Contract shall have a completion date of December 31, 2017.**

Bidders should review the worksheets included at the end of specifications and inspect the work sites to satisfy themselves as to the actual conditions and requirements of the work and accuracy of the estimated quantities.

The bidder should thoroughly acquaint himself with the Agreement Forms used by the Law Department so that he will know what his obligations are before he submits his proposal. These can be reviewed at the City Hall Purchasing Department, Room 201, City

Hall, Worcester, MA.

The bidder is advised to study Chapter 7 of the Revised Ordinances of the City of Worcester 1951, and familiarize himself with the regulations of Management Services regarding permits and responsibility of work. **The contractor shall be responsible for payment in full of all street opening permits.** Attention is called to Article V(C) regarding hours to work and to Chapter 370 of the Acts of 1963.

A certified check or bid bond made payable to the "City Treasurer, City of Worcester" in the amount of 5% of total bid must accompany this bid.

The bid deposit will be returned within seven (7) days after the opening of the proposals with the exception of the three (3) lowest responsible and eligible bidders.

The City of Worcester may award, or may have awarded other contracts for work on or adjacent to the site and the Contractor shall cooperate fully with such other contractors by scheduling his own work with that to be performed under other Contracts as may be directed by the Commissioner. The Contractor shall not commit nor permit any act that will interfere with the performance of work by any other Contractor as scheduled.

Award of **Bid #** shall be based upon the Total Contract Bid Price from Page #14 of 16 of the Proposal.

SPECIAL PROVISIONS

**The following conditions and restrictions shall apply to
all work performed under this contract:**

- .1 The Contractor shall be required to have on-site at all times during the course of construction activities, a full-time superintendent who shall be in responsible charge of the project. This shall be the exclusive agent for the Contractor maintaining continuous correspondence with the Field Engineer.
- .2 The Contractor shall notify the City in writing whenever there is a change of superintendents.
- .3 The Contractor shall submit to Water Operations Engineering a schedule of operations within ten (10) days after the mailing of the executed contract to the Contractor. The schedule shall detail the proposed methods of construction, the sequence of work and the time the Contractor proposes to complete the various items of work within the time specified in the contract.
- .4 The Contract Compliance Office requires certified payrolls be submitted on a weekly basis from the first week of work through the final week of work, regardless of whether you were on site or not. If no work was done during a particular week, a payroll shall be submitted stating that. It shall not be necessary for the Contractor to submit payrolls to any other agency. These submissions shall be a prerequisite to the City making any periodic or final payments to the Contractor. Failure to submit the required certified payroll shall result in the withholding of payments or final retainer release.
- .5 The Contractor shall, prior to beginning work on each street or phase of the contract, submit to Water Operations Engineering, digital photographs and/or videos of the street and sidewalk conditions of the street to be excavated. Post-construction photographs shall also be submitted after final restoration has been completed. All photographs shall be supplied to the City at no additional expense to the City and shall become City property upon receipt.
- .6 A 24-hour emergency telephone number shall be supplied along with the name of the person to be notified for all repairs and emergencies that may occur. Failure to respond shall necessitate the actuation of City crews at the Contractor's expense.
- .7 Police Officers for traffic control shall be furnished at

the discretion of the Contracting Officer at the City's expense.

- .8 The Contractor shall be required to obtain a trenching permit and a permit to open a public street through the DPW&P Permit Office at 20 East Worcester St. The Contractor shall be responsible for the payment of the full cost of any and all required street opening permits at no additional compensation. Failure to obtain the required permits shall result in the withholding of payments or final retainer release.
- .9 Where old iron pipe exists on service lines, Contractor will be performing a change of service on the City portion. While the City encourages homeowners to replace this old iron pipe on their property, they are under no obligation to use the City's Contractor or to change the pipe. The Contractor will not pressure, or use undue influence to entice the homeowner into this work. Should the opportunity arise, The Contractor may enter into a private agreement with homeowners to perform a change of service on the owner's side. Should the homeowner and Contractor enter an agreement, the Contractor will treat this as a private job unrelated to the City contract work and will be responsible to take and pay for proper City Water permits. Homeowners will be responsible for any normal City fees associated with turning on or off water or setting a new flared valve connection at the meter.
- .10 **Payment item 112 for Trench Excavation** which is set at the price of \$50 per CY shall be used under the following conditions: **1.** "Outside Excavation" shall be where the contractor was directed by Water Operations to excavate, and no pipes were found or no work done. **2.** "Extra Depth" shall be where the water trench excavation, as directed by Water Operations, exceeds normal conditions of 3' width or 6' depth. **3.** Where, at the discretion of the Field Engineer, and excavation beyond the normal limits is needed to find a fitting or water line as previously marked or located by the City.
- .11 **Payment item 120 for Rock Excavation** shall also include concrete, ridged or excessive road base (greater than 6"), if encountered.
- .12 **Payment item 301.015** for "Change of Service" shall be used for replacing water service pipes in the City right-of way only which shall include pulling new pipe with old and trenching of service lines that cannot be pulled.
- .13 On many streets scheduled for resurfacing or private street conversion, the contractor will be asked to change older style 2-way or 3 way hydrants with new City Supplied

Guardian hydrants. The Contractor may also be asked to change or repair various City hydrants at unrelated locations that City forces are unable to do for various reasons. All work to be covered under the appropriate pay items.

- .14 **Item 315.5000 Dig & Backfill Hole for City supplied tap or insertion** shall include all work to dig prepare and backfill an access point to allow a wet tap or insertion valve of any size. This shall include all necessary shoring and/or steel plating of the excavation if needed. New gravel and paving shall be covered under the appropriate item.

- .15 **Item 485.100 for Excavatable Control Density Fill** is intended to be used in openings done in main line thoroughfares or recently resurfaced streets at the direction of the Field Engineer or DPW&P Permit Division's street opening permit requirements.

- .16 **Item 220.06 TRENCH EXCAVATION AND BACKFILL, FURNISH AND INSTALL 6" PVC shall be used for the repair of Illicit Connections**, crossed sewer and drain service connections. Such connections shall be repaired under this contract as soon as they are identified and as directed by the Field Engineer. Resetting the connections to the proper configuration shall be paid under Item 220.06, complete and in place which shall include all street/sidewalk cutting, excavation, backfilling, gravel borrow, pipe installation, pipe fittings, pipe couplings, stone, compaction, labor and equipment necessary to complete the required work. Payment for CDF, granite curb resetting, bituminous berm repair, temporary and permanent paving used as part of Pay Item 220.06, Trench Excavation and Backfill, Furnish and Install 6" PVC, shall made using the appropriate pay item.

- .17 No guarantee is made as to the amount of work to be assigned at a given location or on a given street. The contractor may be assigned to do individual leak, service or hydrant jobs at numerous unrelated locations.

PROPOSAL

Water Services & Hydrants #231-16

Bid # 6626-W6

THE BIDDER MUST FILL IN THESE UNIT PRICES. Also carry out all extensions and fill in "Computed Totals."

In case of error or discrepancies, UNIT PRICES govern and written works take precedence over figures.

ITEM NUMBER AND DESCRIPTION	ESTIMATED QUANTITY	COMPUTED TOTALS
112.0000 UNCLASSIFIED EXCAVATION & BACKFILL		
_____ Dollars	100.00	\$ _____
(\$ _____) CY		
120.0000 CLASS "B" ROCK EXCAVATION AND DISPOSAL		
_____ Dollars	100.00	\$ _____
(\$ _____) CY		
125.0000 SAND BORROW		
_____ Dollars	300.00	\$ _____
(\$ _____) CY		
126.0000 GRAVEL BORROW		
_____ Dollars	500.00	\$ _____
(\$ _____) CY		
128.0000 SCREENED LOAM BORROW		
_____ Dollars	60.00	\$ _____
(\$ _____) CY		
156.0000 SEEDING		
_____ Dollars	60.00	\$ _____
(\$ _____) SY		
158.0000 SODDING		
_____ Dollars	50.00	\$ _____
(\$ _____) SY		
220.0600 TRENCH EXCAVATION AND BACKFILL, FURNISH AND INSTALL 6" PVC		
_____ Dollars	50.00	\$ _____
(\$ _____) LF		
301.0150 1" Change of service		
_____ Dollars	531.00	\$ _____
(\$ _____) LF		

Water Services & Hydrants #231-16
Bid # 6626-W6

ITEM NUMBER AND DESCRIPTION	ESTIMATED QUANTITY	COMPUTED TOTALS
301.0200 2" Copper Tubing		
_____ Dollars	40.00	\$ _____
(\$ _____) LF		
301.0600 6" CLDI Pipe		
_____ Dollars	18.00	\$ _____
(\$ _____) LF		
302.1000 Cast or Ductile Fittings		
_____ Dollars	300.00	\$ _____
(\$ _____) LB		
304.0100 Valve Box		
_____ Dollars	3.00	\$ _____
(\$ _____) EA		
304.0200 SERVICE Box		
_____ Dollars	5.00	\$ _____
(\$ _____) EA		
304.0300 Adjust CURB STOP to Grade		
_____ Dollars	5.00	\$ _____
(\$ _____) EA		
304.0400 REPLACING 4" - 12" GATE VALVE BOX, GRAVEL BASE		
_____ Dollars	8.00	\$ _____
(\$ _____) EA		
304.0500 REPLACING 4" - 12" GATE VALVE BOX, RIGID BASE		
_____ Dollars	5.00	\$ _____
(\$ _____) EA		
304.0800 WATER BOX ADJUST TO GRADE, GRAVEL BASE		
_____ Dollars	5.00	\$ _____
(\$ _____) EA		

**Water Services & Hydrants #231-16
Bid # 6626-W6**

ITEM NUMBER AND DESCRIPTION	ESTIMATED QUANTITY	COMPUTED TOTALS
304.0900 WATER BOX ADJUST TO GRADE, RIGID BASE		
_____ Dollars	5.00	\$ _____
(\$ _____) EA		
304.1000 LOWER STREET SERVICE BOX		
_____ Dollars	313.00	\$ _____
(\$ _____) EA		
309.2000 Service Box and Curb Stop		
_____ Dollars	27.00	\$ _____
(\$ _____) EA		
309.3000 Service Box and Cut-in Curb Stop (3/4" - 1")		
_____ Dollars	220.00	\$ _____
(\$ _____) EA		
309.4000 Service Box and Cut-in Curb Stop (1 1/4" - 2")		
_____ Dollars	7.00	\$ _____
(\$ _____) EA		
310.3000 Hydrant Removed and Stacked		
_____ Dollars	9.00	\$ _____
(\$ _____) EA		
310.4000 Hydrant Removed and Reset		
_____ Dollars	5.00	\$ _____
(\$ _____) EA		
310.5000 Install new City supplied hydrant		
_____ Dollars	9.00	\$ _____
(\$ _____) EA		
312.0600 6" Tie-in		
_____ Dollars	9.00	\$ _____
(\$ _____) EA		
313.2000 Thrust Block		
_____ Dollars	9.00	\$ _____
(\$ _____) EA		

**Water Services & Hydrants #231-16
Bid # 6626-W6**

ITEM NUMBER AND DESCRIPTION	ESTIMATED QUANTITY	COMPUTED TOTALS
314.3000 Dig and Plug Existing connection up to 2" in size		
_____ Dollars	21.00	\$ _____
(\$ _____) EA		
314.3500 Dig and Plug connection larger than 2"		
_____ Dollars	4.00	\$ _____
(\$ _____) EA		
314.6000 Dig & Backfill Hole for City supplied Tap or Insertion		
_____ Dollars	10.00	\$ _____
(\$ _____) EA		
315.1000 Indicator Post		
_____ Dollars	5.00	\$ _____
(\$ _____) EA		
436.0000 RESURFACE TRENCHES TEMPORARY		
_____ Dollars	1,750.00	\$ _____
(\$ _____) LF		
436.0100 RESURFACE TRENCHES PERMANENT		
_____ Dollars	500.00	\$ _____
(\$ _____) LF		
438.5000 BITUMINOUS CONCRETE BERM REPAIR		
_____ Dollars	100.00	\$ _____
(\$ _____) LF		
442.0000 CONCRETE SIDEWALK REPAIR		
_____ Dollars	200.00	\$ _____
(\$ _____) SY		
480.1000 Street Sweeping		
_____ Dollars	10.00	\$ _____
(\$ _____) HR		
485.1000 EXCAVATABLE CONTROL DENSITY FILL (CDF)*		
_____ Dollars	50.00	\$ _____
(\$ _____) CY		

Water Services & Hydrants #231-16
Bid # 6626-W6

ITEM NUMBER AND DESCRIPTION	ESTIMATED QUANTITY	COMPUTED TOTALS
900.0000 Lump Sum Reserve		
<u>one hundred thousand and xx / 100</u>	Dollars	\$ <u>100,000.00</u>

Water Services & Hydrants #231-16
Bid # 6626-W6

TOTAL BID PRICE INCLUDING CONTINGENCY

_____ Dollars and _____ Cents
(amount in words)

\$ _____
(amount in figures)

Proposed Starting Date: _____

Number of Calendar Days to Complete Project _____

This proposal is based on provisions of the following addenda:

No. _____

No. _____

No. _____

No. _____

All amounts and totals given above will be subject to verification by the City. In case of variation between Unit Bid Price and Totals shown by the Bidder, the Unit Price written in words will be considered to be the bid.

The City reserves the right to reject any and all bids, wholly or in part, and to make awards in a manner deemed in the best interests of the City.

The above estimated quantities form an approximate statement of the extent of the work to be done, based upon the estimate of the Contracting Officer. The City does not expressly or by implication agree that the actual quantity of work will correspond therewith, but reserves the right to increase or decrease the quantity of any class or portion of the work, as may be deemed necessary by the Contracting Officer.

LIQUIDATED DAMAGES
(CONTRACTS OF \$100,000 OR MORE)

It is expressly understood and agreed, by and between the Contractor and the City, that the time for the completion of the of the work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and usual industrial and/or residential conditions prevailing in the locality. If the said Contractor shall neglect, fail or refuse to complete the work within the time herein specified, or any proper extension thereof requested in writing by the Contractor and granted in writing by the Contracting Officer, then the Contractor does hereby agree, as a part consideration for the awarding of this contract, to pay to the City the amount of \$500.00 per day, not as a penalty but as liquidated damages for such breach of contract, for each and every calendar day that the contractor shall be in default after the time stipulated for completing the work. The said amount of \$500.00 per day is fixed and agreed upon by and between the Contractor and the City because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the City would in such event sustain, and the said amount shall be deducted by the City from periodic payments.

It is understood that the winter months of December, January, February and March shall be excluded from the Liquidated Damages and the Contractor shall not suffer any penalty for not working during that period.

REFERENCES

The bidder is requested to state below what work of a similar character to that included in the Proposal Contract he/she has done, and give references that will enable the City to make inquiries and to judge of his/her experience, skill, available financial resources, credit and insurance standing.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

Service Worksheet

Street(limits): Blaine Ave. (Main St. to Stafford St.)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions				
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.1 L.B.
1305 Main St.	24551	1"	plastic	1983					1
1317 Main St.	30805	3/4"	copper	1936				1	1
1	19433	1"	plastic	1983				1	1
2	12772	3/4"	copper	1966				1	1
3	12838	3/4"	plastic	1970				1	1
5	16856	1"	plastic	1971				1	1
6	10386	1"	plastic	1970				1	1
7	16606	3/4"	copper	1965				1	1
9	13679	3/4"	plastic	1966				1	1
10	19970	1"	plastic	1990					1
11	14065	1"	plastic	1971				1	1
12	12843	1"	plastic	1978					1
13	34456	3/4"	copper	1948				1	1
14	16711	1"	plastic	1991					1
15	17846	1"	plastic	1990					1
16	21368	1"	plastic	1978					1
17	16333	1"	plastic	1982					1
19	23648	1"	plastic	1982					1
20	25881	1"	plastic	1985					1
23	16334	1"	plastic	1983					1
24	28582	1"	plastic	1979					1
25 A	49729	1"	plastic	1992					1
25 B	49730	1"	plastic	1992					1
26 A	53942	1"	plastic	2008					1
26 B	53943	1"	plastic	2008					1
27	32867	1"	plastic	1996					1
28	32944	1"	plastic	1992					1
29	32868	1"	plastic	2010					1
30	32945	1"	plastic	1988					1

NOTES

box on Blaine Ave.
on Blaine Ave, plas. on owner

iron on owner side

no work

no work

no work

no work

no work

no work

Service Worksheet

Street(limits): Blaine Ave. (Main St. to Stafford St.)

Address	Service No.	Size	Material	Year	CofS(ft.)	Item Numbers & Descriptions				
						301.1	314.3	309.2	309.3 & .4	314.1
						Abandon	C.S.	C.I.C.S.	L.B.	
31	32869	1"	plastic	1993						1
32	32946	3/4"	copper	1955				1		1
33	32870	1"	plastic	2001				1		1
34	32947	1"	plastic	2005						1
35	32948	1"	plastic	1993						1
36	40507	3/4"	copper	1960				1		1
37	32949	1"	plastic	1992						1
38	40578	3/4"	copper	1960				1		1
39	33006	3/4"	iron	1943	14		1			
41	33007	3/4"	iron	1943	13		1			
144 Stafford St.	46238	2"	copper	1985						
Totals					27	0	2	14	31	

NOTES

iron on owner side

3" plas. @ main, replace all
On Blaine Ave., no work

NOTES:

CofS(ft.) - Change of Service on City Property(estimated footage)

C.S. - Curb Stop Installed during CofS

C.I.C.S. - Cut-in Curb Stop

L.B. - Lower Street Box

Service Worksheet

Street(limits): Blossom St. (Russell St. to Hudson St.)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions					
					301.1 Cofs(ft.)	314.3 Abandon	309.2 C.S.	309.3 & 4 C.I.C.S.	314.1 L.B.	
1	5559	3/4"	plastic	1974				1		1
2	3538	1"	plastic	1997				1		1
7	4624	1"	plastic	2003				1		1
8	4320	3/4"	plastic	1969				1		1
9-11	12208	3/4"	copper	1963				1		1
13-15	12209	3/4"	copper	1956						1
16	15531	1"	plastic	2001						1
19	26443	1"	plastic	2010						1
new 20	15532	1"	plastic	1992				1		1
old 20	15532	3/4"	iron	1906		1				
22	17921	3/4"	plastic	1974				1		1
25	6616	1"	plastic	2009						1
26	7559	1"	plastic	2009						1
27	3533	3/4"	copper	1965				1		1
28	13584	3/4"	copper	1965				1		1
31	4576	1"	plastic	1972				1		1
32	7797	1"	plastic	2009						1
36	19060	1"	plastic	1973				1		1
37	18996	1"	plastic	2010						1
40	18856	1"	plastic	2008						1
41	7188	1"	plastic	1971				1		1
44	4980	1"	plastic	2001						1
45	17277	1"	plastic	1972				1		1
48	5647	3/4"	plastic	1974						1
24 Hudson St.	4451	3/4"	plastic	1978						1
Totals					0	1	0	13	0	23

NOTES
 iron on owner
 tree in way in 2003 ?
 curb stop in 2013
 may be gone already

no work, tap on Hudson St.
 tap on Blossom St.

NOTES:
 Cofs(ft.) - Change of Service on City Property(estimated footage)
 C.S. - Curb Stop Installed during Cofs
 C.I.C.S. - Cut-In Curb Stop
 L.B. - Lower Street Box

Service Worksheet

Street(limits): Caroline St. (Grafton St. to Plantation St.)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions				
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.10 L.B.
4	6960	3/4"	iron	1884		1			
4	21278	2"	Galv.	1923	14		1		
4	39045	4"	C.I.	1956					
4	21049	3/4"	iron	1916	15		1		
4	F.P. 25527	4"	C.I.	1924					
6	11315	3/4"	copper	1964				1	1
1 Caroline Terrace	21747	1"	plastic	1987					
7	17640	3/4"	iron	1911	24		1		
9	21311	1"	plastic	1968				1	1
11	20179	1"	plastic	1970				1	1
12	12886	3/4"	iron	1899	13		1		
14	11582	3/4"	copper	1957				1	1
15	20026	1"	plastic	1977				1	1
17	19615	1"	plastic	1995					
Totals					66	1	4	4	5

NOTES

might be already gone
abandon if not in use
School, no work
abandon if not in use
convent, no work

Box on Caroline St., no work

tap on Plantation St., no work

NOTES:

- CofS(ft.) - Change of Service on City Property(estimated footage)
- C.S. - Curb Stop Installed during CofS
- C.I.C.S. - Cut-In Curb Stop
- L.B. - Lower Street Box

Service Worksheet

Street(limits): Denny St. (Dix St. to Highland St.)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions					
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.10 L.B.	
1	5259	1"	plastic	1974				1		1
3	5351	1"	plastic	1974				1		1
4	15154	3/4"	plastic	1974				1		1
5	4840	1"	plastic	1992				1		1
6	4086	1"	plastic	1974				1		1
8	15135	1"	plastic	1974				1		1
9	46745	1 1/4"	copper	1984						
10	6019	3/4"	copper	1958				1		1
12	3907	1"	plastic	1974				1		1
14	7552	1"	plastic	1974				1		1
18	40384	2"	copper	1960				1		
95 Highland St.	28003	3/4"	copper	1974				1		1
Totals					0	0	0	0	11	10

NOTES

no work

box on Denny St.

NOTES:

- CofS(ft.) - Change of Service on City Property(estimated footage)
- C.S. - Curb Stop Installed during CofS
- C.I.C.S. - Cut-In Curb Stop
- L.B. - Lower Street Box

Service Worksheet

Street(limits): Ellsmere St. (entire)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions				
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.10 L.B.
41 Adams St.	50720	1"	plastic	1998					
5	39497	3/4"	copper	1957				1	1
6	24931	1"	plastic	1975				1	1
7	21137	3/4"	cop/iron	1916	30		1		
lot 43	24424	3/4"	iron	1923		1			
8 A	51146	1"	plastic	2000					
8 B	51147	1"	plastic	2000					
9	24362	3/4"	copper	1952				1	1
10	36193	3/4"	copper	1951				1	1
12	24970	1"	plastic	1970				1	1
13	46515	1"	plastic	1986					
14	32291	3/4"	copper	1941				1	1
15	32066	3/4"	copper	1940				1	1
16	26047	3/4"	iron	1925	16		1		
17	25822	1"	plastic	1974				1	1
19	38663	3/4"	copper	1955				1	1
21	19564	3/4"	plas/iron	1913	30		1		
22	25278	3/4"	copper	1932					1
23	51355	1"	plastic	2000					
25	51356	1"	plastic	2000					
Totals					76	1	3	9	11

NOTES
 tap on Ellsmere St., no work
 change all on city
 shut 1938
 no work
 no work
 may have meter pit in yard
 1949 copper on owner
 change all on city, owner 2011
 c.s. in 2009, owner side iron
 no work
 no work

NOTES:
 CofS(ft.) - Change of Service on City Property(estimated footage)
 C.S. - Curb Stop Installed during CofS
 C.I.C.S. - Cut-In Curb Stop
 L.B. - Lower Street Box

Service Worksheet

Street(limits): Greendale Ave. (W. Boylston St. to end)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions				
					301.1 Cofs(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4	314.10 L.B.
496 W. Boylston St.	12950	3/4"	iron	1899		1			
500 W. Boylston St.	43572	1 1/2"	copper	1970			1		
4 contemplated #2	16101	1"	plastic	1969					
6 contemplated #1	12971	3/4"	copper	1930		1			
7	31587	1"	plastic	2015					1
8	12972	3/4"	copper	1930					
9	21442	3/4"	copper	1939			1		1
10	10866	3/4"	copper	1968			1		1
11	21069	1"	plastic	1973			1		1
12	10876	1"	plastic	1973			1		1
13	21596	1"	plastic	1973			1		1
14	10867	3/4"	plastic	1973			1		1
15	21276	1"	copper	1965			1		1
16	10868	1"	plastic	1973			1		1
17	21415	1"	plastic	1973			1		1
contemplated #3		3/4"	plastic	1973			1		1
contemplated #4		3/4"	copper	1930			1		1
contemplated #5		3/4"	copper	1930			1		1
19	40947	1"	copper	1961				1	1
20	40653	3/4"	copper	1960				1	1
22	13256	1"	plastic	1967				1	1
23	20724	1"	plastic	1973				1	1
108 Leeds St.	15807	1"	plastic	1971				1	1
contemplated #7		3/4"	copper	1930				1	1
24	13034	1"	plastic	1994					1
26	20470	1"	plastic	1973				1	1

NOTES
 on Greendale Ave. shut 1964
 on Greendale Ave.
 also rear # 11 Airlie St.
 abandon if not in use
 owner side iron
 abandon if not in use

owner side iron

owner side iron

abandon if not in use
 abandon if not in use
 abandon if not in use

owner side iron
 on Greendale Ave. Dom. & F.P.
 abandon if not in use

Service Worksheet

Street(limits): Greendale Ave. (W. Boylston St. to end)

Address	Service No.	Size	Material	Year	CofS(ft.)	Item Numbers & Descriptions						
						314.3	309.2	309.3 & .4	314.10	L.B.		
27	13902	1"	plastic	1982								1
28	18927	1"	plastic	1999								1
contemplated #6		3/4"	copper	1930				1				
30	19254	1"	plastic	2013								1
31	27182	3/4"	iron	1926	13		1					
32	18928	1"	plastic	1970					1			1
33	17881	1"	plastic	1999					1			1
34	19255	1"	plastic	1985								1
36	18929	1"	plastic	1979								1
contemplated #8		3/4"	copper	1930				1				
37	16703	3/4"	copper	1961						1		1
38	40025	3/4"	copper	1958					1			1
39	16704	3/4"	plastic	1978								
40	13780	1"	plastic	1976						1		1
42	25912	3/4"	plas/iron	1925	29				1			
43	13778	1"	plastic	2000								1
44	13779	3/4"	copper	1965						1		1
contemplated #9		3/4"	copper	1930				1				
45	35867	3/4"	cop/iron	1950	10				1			
46	35868	1"	plastic	2012								1
46A	50616	1"	plastic	1998								1
47	35896	3/4"	cop/iron	1950	11				1			
48	17214	3/4"	copper	1965						1		1
49	35870	3/4"	cop/iron	1950	9				1			
51	36919	3/4"	copper	1952						1		1
53	37471	3/4"	copper	1953						1		1
55	37472	3/4"	copper	1953						1		1
59	43851	1"	plastic	1973						1		1

NOTES

abandon if not in use
? maybe lowered already

? maybe lowered already
abandon if not in use

no work

change entire city side

abandon if not in use
change entire city side

? maybe lowered already
change entire city side

change entire city side

Service Worksheet

Street(limits): Greendale Ave. (W. Boylston St. to end)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions				
					301.1	314.3	309.2	309.3 & .4	314.10
					CofS(ft.)	Abandon	C.S.	C.I.C.S.	L.B.
Totals					72	9	5	29	38

NOTES

NOTES:

- CofS(ft.) - Change of Service on City Property(estimated footage)
- C.S. - Curb Stop Installed during CofS
- C.I.C.S. - Cut-In Curb Stop
- L.B. - Lower Street Box

Service Worksheet

Hermon Street - Southbridge St to Lamartine St

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions						
					301.01 CofS(ft.)	314.3 Abandon ≤ 2"	314.5 Abandon ≥ 3"	309.2 C.S.	309.3 3/4"-1" CICS	309.4 1 1/4"-2" CICS	304.10 L.B.
105 Madison St	FP # 573	6"	DI	1976			1				
Totals					0	0	1	0	0	0	0

NOTES
Abandon at
valve in
Hermon St

NOTES:

- CofS(ft.) - Change of Service on City Property (estimated footage)
- C.S. - Curb Stop Installed during CofS
- C.I.C.S. - Cut-In Curb Stop
- L.B. - Lower Street Box

Service Worksheet

Lamartine St - Hermon St to Quinsigamond Ave

Address	Service No.	Size	Material	Year	CofS(ft.)	Item Numbers & Descriptions					L.B.	
						314.3	314.5	309.2	309.3	309.4		304.10
90	659	2"	copper	1961								
100	20568	2"	iron	1915		1					1	
100	FP # 631	6"	DI	1979			1					
115	4024	3/4"	iron	1873		1						
@ Quinsigamond Ave	35695	2"	copper	1951							1	
Totals					0	2	1	0	0	2	0	0

NOTES

abandon 6" at valve in street

auto parts warehouse

NOTES:

- CofS(ft.) - Change of Service on City Property (estimated footage)
- C.S. - Curb Stop Installed during CofS
- C.I.C.S. - Cut-In Curb Stop
- L.B. - Lower Street Box

Service Worksheet

Street(limits): Longmeadow Ave. (Clark St. to 200' s of Monomoy St.)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions					
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	L.B. 314.10	
2	31094	1"	plastic	1974				1		1
5	29821	1"	plastic	1987						1
6	30653	1"	plastic	1978						
7	29700	3/4"	cop/iron	1930	16		1			
8	24177	1"	plastic	2013						1
9	32538	1"	plastic	1993						1
10	26915	1"	plastic	1980						1
12	26821	1"	plastic	1972				1		1
14	24652	1"	plastic	1996						1
15	34241	3/4"	copper	1948						1
16	26118	3/4"	cop/iron	1925	28		1			
17	42263	3/4"	copper	1965					1	1
19	21334	1"	plastic	1975				1		1
20	34484	3/4"	copper	1948				1		1
21	32796	1"	plastic	2004						1
23	32797	1"	plastic	1984						1
27	40566	3/4"	copper	1960					1	1
28	32892	1"	plastic	1994					1	1
29	35206	3/4"	copper	1949					1	1
30	32893	3/4"	cop/iron	1942	20		1			
32	41114	3/4"	copper	1962						1
34	22430	3/4"	iron	1920	20		1			
37	37682	3/4"	copper	1953					1	1
39	37614	3/4"	copper	1953					1	1
40	41114	3/4"	copper	1962					1	1
42	33700	3/4"	copper	1947					1	1
44	53874	1"	plastic	2007						
45	38025	3/4"	copper	1954					1	1

NOTES

no work
change all on city side
iron on owner

curb stop in 2013
change all on city side

iron on owner

check, may have curb stop ?
tap on top of main
change all on city side

no work

Service Worksheet

Street(limits): Longmeadow Ave. (Clark St. to 200' s of Monomoy St.)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions					
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.10 L.B.	
85	34156	3/4"	copper	1947				1		1
88	31148	3/4"	copper	1938						
92	27252	1"	plastic	2001						1
93	38457	3/4"	copper	1955				1		1
97	38602	3/4"	copper	1955				1		1
98	48533	1"	plastic	1988						1
100	30620	3/4"	iron	1935	15		1			
101	44698	1"	plastic	1980						
102	48241	1"	plastic	1988						1
Totals					99	0	5	17	28	

NOTES

may be shallow
no work, on Squantum St.
iron on owner

no work, on Monomoy St.

NOTES:

- CofS(ft.) - Change of Service on City Property(estimated footage)
- C.S. - Curb Stop Installed during CofS
- C.I.C.S. - Cut-In Curb Stop
- L.B. - Lower Street Box

Service Worksheet

Main Street (Hancock St to Beaver St)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions							
					301.01	314.3	314.5	309.2	309.3	309.4	304.1	
910	FP #287	6"	iron	1963								
912	FP #1152	6"	iron	2002								
918	FP #917	6"	iron	1990								
918	23551											
921	7050	1"	plastic	1970								
923	3602	3/4"	copper	1958		1						
925	3910	3/4"	copper	1938								
927	3375	3/4"	copper	1947					1			
926-928	FP #26004	4"	iron	1925								
926-928	145	1 1/2"	iron	1925	40				1			
929	38848	1 1/2"	copper	1956								
930	22370	1 1/2"	copper	1963								
931	24720	1"	plastic	1987								
934	FP #1151	4"	iron	2002								
934	18014	3/4"	copper	1945								
936	5587	3/4"	iron	1881		1						
939	3775	3/4"	iron	1873		1						
939	FP #1545	6"	iron	2015								
939	54694	4"	iron	2015								
940-948	9622	1"	iron	1890		1						
940-948	16612	3"	iron	1909				1				
940-948	16614	1"	copper	1942					1			
941	3794	3/4"	iron	1873		1						
955	11169	6"	iron	1894				1				
Totals					40	5	2	1	2	2	2	0

NOTES
 No work, tap on Hawthorne St
 No work, tap on Hawthorne St
 No work
 No work
 No work
 No work

replace old iron w/1-1/2" copper
 No work, tap on Wyman St
 No work, tap on Grand St
 No work, tap on Downing St
 No work, tap on Downing St

tap on top of 40" main
 No work, tap on Grand St
 No work, tap on Grand St

valve and mueller shut,
 disconnect pipe and cap

old connection for University
 Park

NOTES:
 CofS(ft.) - Change of Service on City Property(estimated footage)
 C.S. - Curb Stop Installed during CofS
 C.I.C.S. - Cut-in Curb Stop
 L.B. - Lower Street Box

Service Worksheet

Street(limits): Palisades St. (Hamilton St. to end)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions				
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.10 L.B.
489	36460	3/4"	copper	1951				1	1
501	31113	3/4"	copper	1937				1	1
1	31061	3/4"	copper	1937				1	1
3	24870	3/4"	copper	1937				1	1
4	35218	3/4"	copper	1949				1	1
6	24875	1"	plastic	1973				1	1
7	24876	1"	plastic	1974				1	1
9	34451	3/4"	copper	1948				1	1
11	40252	3/4"	copper	1959				1	1
12	22404	1"	plastic	1998				1	1
15	24210	1"	plastic	1976				1	1
16	23197	1"	plastic	1976				1	1
17	24961	3/4"	plastic	1969	39		1		
18	37977	3/4"	copper	1954				1	1
19	24337	1"	plastic	1972				1	1
20	23198	1"	plastic	1993				1	1
22	22124	3/4"	copper	1968				1	1
23	23245	1"	plastic	1992				1	1
24	23244	1"	plastic	1976					
25	23116	1"	plastic	1988					
26	33754	3/4"	copper	1947					
29	24328	1"	plastic	1976				1	1
30	21215	1"	plastic	1976				1	1
31	39416	3/4"	copper	1957				1	1
32	38973	3/4"	copper	1956				1	1
35	45895	1"	plastic	1985					
36	38039	3/4"	copper	1954				1	1
38	46465	1"	plastic	1986					
39	38935	3/4"	copper	1956				1	1
50 Nonquit St.	44159	1"	plastic	1974					
40	46466	1"	plastic	1986					
41	48233	1"	plastic	1988					

NOTES

tap on Palisades St.
tap on Palisades St.

curb stop in 1995

repair in 2008

no work

no work, tap on Touraine St.
no work, tap on Touraine St.

may be shut in street ?

tap on Palisades St.

Service Worksheet

Street(limits): Palisades St. (Hamilton St. to end)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions					
					301.1	314.3	309.2	309.3 & .4	314.10	
42	46467	1"	plastic	1986	CofS(ft.)	Abandon	C.S.	C.I.C.S.	L.B.	1
43	48234	1"	plastic	1988						1
44	46468	1"	plastic	1986						1
Totals					39	0	1	19		31

NOTES

NOTES:

- CofS(ft.) - Change of Service on City Property(estimated footage)
- C.S. - Curb Stop Installed during CofS
- C.I.C.S. - Cut-In Curb Stop
- L.B. - Lower Street Box

Service Worksheet

Street(limits): Robin Rd. (entire)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions					
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.10 L.B.	
3	54342	1"	plastic	2011						
5	45101	1"	plastic	1983						
10	42490	3/4"	plastic	1966				1		1
14	42345	3/4"	copper	1965				1		1
15	42346	3/4"	copper	1965				1		1
18	42491	3/4"	plastic	1966				1		1
22	42393	3/4"	copper	1965				1		1
23	42394	3/4"	copper	1965				1		1
26	42344	3/4"	copper	1965				1		1
27	42395	3/4"	copper	1965				1		1
30	42343	3/4"	copper	1965				1		1
31	42396	3/4"	copper	1965				1		1
34	42486	3/4"	plastic	1966				1		1
35	42397	3/4"	copper	1966				1		1
38	42492	3/4"	plastic	1966						1
39	42493	3/4"	plastic	1966						1
42	42494	3/4"	plastic	1966						1
43	42398	3/4"	copper	1966				1		1
Totals					0	0	0	13	16	

NOTES
no work
no work

curb stop in 1986
curb stop in 1985
curb stop in 1986

NOTES:
CofS(ft.) - Change of Service on City Property(estimated footage)
C.S. - Curb Stop Installed during Cofs
C.I.C.S. - Cut-In Curb Stop
L.B. - Lower Street Box

Service Worksheet

Street(limits): Sever St. (Elm St. to Highland St.)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions				
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.1 L.B.
87 Elm St.	9610	1"	plastic	1971			1		1
25	24048	1"	plastic	2000					1
26	6584	3/4"	copper	1934			1		1
27	5488	1"	plastic	2012					1
28	8339	1"	plastic	1975			1		1
30	6140	1"	plastic	1999					1
52 Cedar St.	7287	1"	plastic	2005					1
54 Cedar St.	42161	1"	plastic	1975			1		1
54 Cedar St.	6156	1"	plastic	1975			1		1
54 Cedar St.	FP#1211	2"	copper	2004					
36	7234	1"	plastic	1970					
38	9499	1"	plastic	1975					1
41	14959	1 1/4"	copper	1968					
41	FP#1210	2"	copper	2004					
62-64 Williams St.	FP#1212	2"	copper	2004					
47	16476	1"	plastic	1976			1		1
48	7987	1"	plastic	1976			1		1
51	17325	1"	plastic	1976		1			
51	FP#1081	8"	D.I.	1999					
7 Martson Way	10092	1"	plastic	2003					1
7 Martson Way	FP#1021	2"	copper	1996					
54	9026	1"	copper	1976			1		1
61	FP#265	6"	C.I.	1961					
62	14592	1"	copper	1976			1		1
64	14806	1"	plastic	2015					1
24 Hampden St.	3829	1"	plastic	1976					1
69	15604	2"	copper	1976					
78	8373	1"	copper	1976			1		1

NOTES

on Sever St., 1" F.P. Tee inside

no work, on Cedar St.
box on Sever St.

on Sever St., 1 1/4" cop. Owner
on Sever St. AB if not in use

on Sever St., no work
2008 curb stop, no work

curb stop in 2015
no work, on Williams st.

no work
on Sever St., no work

3/4" copper on owner
demo in 1999

no work, includes 4" dom.
on Sever St.,AKA 52 Sever St.

on Sever St., no work
some is 3/4" copper

no work, includes 2" dom.

on Sever St., iron on owner
no work, curb stop in 2007

3/4" copper on owner

Service Worksheet

Street(limits): Westborough St. (Sunderland Rd to Pinecrest Dr)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions					
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.10 L.B.	
4	31350	3/4"	copper	1938				1		1
6	48323	1"	plastic	1988						1
61	43148	1"	plastic	1969				1		1
62	39671	3/4"	copper	1957				1		1
66	38885	3/4"	copper	1956				1		1
67	38969	3/4"	copper	1956				1		1
69	36189	1"	plastic	1997						1
70	38886	3/4"	plastic	1972				1		1
71	54634	1"	plastic	2015						1
73	36153	3/4"	copper	1951				1		1
74	38887	3/4"	copper	1956				1		1
74A	55057	1"	plastic	1999						
75	36154	1"	cop/iron	1951	20		1			
76	36155	1"	plastic	1992						1
79	36190	1"	cop/iron	1950	20		1			
80	36156	3/4"	copper	1951				1		1
81	36191	1"	plastic	1989						1
83	37222	3/4"	copper	1952				1		1
84	36157	3/4"	copper	1951				1		1
88	36568	1"	plastic	2015						1
89	37606	3/4"	copper	1953				1		1
92	36569	1"	cop/iron	1951	19		1			
95	37223	3/4"	copper	1952				1		1
96	36570	1"	cop/iron	1951	21		1			1
99	37479	3/4"	copper	1953						1
100	36895	1"	iron	1952	15		1			1
103	37480	3/4"	copper	1953				1		1
104	36829	3/4"	copper	1952				1		1

NOTES

1956 copper on owner
no work

no work
change all on city side

change all on city side

iron on owner

change all on city side

change all on city side

change all on city side

Service Worksheet

Street(limits): Westborough St. (Sunderland Rd to Pinecrest Dr)

Address	Service No.	Size	Material	Year	Item Numbers & Descriptions				
					301.1 CofS(ft.)	314.3 Abandon	309.2 C.S.	309.3 & .4 C.I.C.S.	314.10 L.B.
107	37607	3/4"	copper	1953					1
108	36830	3/4"	copper	1952				1	1
111	37785	3/4"	copper	1954				1	1
112	37141	3/4"	copper	1952				1	1
115	37608	3/4"	copper	1953				1	1
116	37142	3/4"	copper	1952				1	1
119	38153	3/4"	copper	1954				1	1
120	37609	3/4"	copper	1953				1	1
123	38159	3/4"	copper	1954				1	1
124	37786	3/4"	copper	1954				1	1
131	37879	1 1/2"	copper	1954		1			
Totals					95	1	5	25	31

NOTES
curb stop in 2002

check if not in use first

NOTES:
 CofS(ft.) - Change of Service on City Property(estimated footage)
 C.S. - Curb Stop Installed during CofS
 C.I.C.S. - Cut-In Curb Stop
 L.B. - Lower Street Box

