



Accredited Tree Care by Certified Arborists

Malik Drayton
City of Somerville
93 Highland Ave
Somerville, MA 02145

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February 15, 2023
Proposal #: 65981

Job Site: 18
Malik Drayton
IFB 23-26 Parks Tree Health Program
City Hall and High School
Somerville, MA 02143

Phone:
Email:
Alt Phone:

Tree and Shrub Care Recommendations on 1/31/2023

Description of Services

- Work Plan for City Hall/High School Pruning/Removal and Soil Work April 17-19 2023

- This work will require temporarily closing some sidewalk areas, parking spaces, and monuments while work is being done on the trees directly over them. See attached map for parking restrictions. Work to be performed during school vacation to minimize foot and vehicle traffic impacted.

- Pruning on 53 Mature shade and ornamental trees throughout the park. Individual tree specs listed on the attached spreadsheet.

Structural Pruning - Selective pruning to improve branch architecture; select, develop and maintain strong, properly spaced scaffold branches by reducing or removing interfering, overextended, defective and poorly attached limbs as specified

Canopy Cleaning - Selective pruning to remove declining, dead and broken branches as specified

Canopy Raising - Selective pruning to provide and envelope of clearance of walkways, roadways, utilities, structures, as specified.



- Select Trees along Highland

Root Pruning: prune visible girdling roots smaller than 1" in diameter, etc.



This proposal is valid for 45 days, assuming there are no changes to the site (driveway, plantings, buildings etc. remain unchanged). All work performed in accordance with ANSI A300 Standards.

Payment due upon completion of work. 1 1/2% per month, 18% per year on unpaid balances.



Tree and Shrub Care Recommendations on 1/31/2023

Description of Services

- Select trees along Highland

Bio-stimulant Application - Early season. Treat soils within the critical root zone (typically within the dripline) with an organic liquid blend of humic acids, kelp extract and natural compounds to enhance soil structure, microbial activity and nutrient availability.

[Redacted]

- 9" diameter Stump in front of City Hall

Stump Grinding - Grind stump and exposed flare Deep below grade for replant; backfill and remove excess grinding debris. Machine will grind up to 4-6" from adjacent immobile objects.

[Redacted]

- Cable: 16.9" diameter Austrian Pine #41058

Supplemental Cable System - Install hardware with anchors to provide additional support of leader(s) utilizing drop forged closed eyebolts, washers, thimbles, dead-end grips and 1/4" EHS 7 strand galvanized wire rope.

[Redacted]

- Posting No Parking Permits.

[Redacted]

- Additional pruning hours removing lights (if needed) [Redacted]

- Police Detail

3 Days [Redacted]

- Debris Disposal: Costs include removal and disposal of brush, logs and chipped debris generated from tree care operations.

[Redacted]

Thank you for considering Barrett Tree Service East, Inc. Sincerely,

Alden Johnson
Certified Arborist



This proposal is valid for 45 days, assuming there are no changes to the site (driveway, plantings, buildings etc. remain unchanged). All work performed in accordance with ANSI A300 Standards.

Payment due upon completion of work. 1 1/2% per month, 18% per year on unpaid balances.



Site ID	Species	DBH	Park Name	TRAQ-Risk Rat Recommendations		Units	Cost
Column1	Column14	Column15	Column17	Column33	Column48	Column49	Column50
40938	stump (Stump)	5	CITY HALL	N/A	none		
40928	stump (Stump)	7	CITY HALL	N/A	none		
41022	stump (Stump)	4	CITY HALL	N/A	none		
41071	stump (Stump)	14	CITY HALL	N/A	none		
41063	stump (Stump)	15	CITY HALL	N/A	none		
41130	stump (Stump)	9	CITY HALL	N/A	Grind deep for replant		
40986	stump (Stump)	5	CITY HALL	N/A	none		
40974	stump (Stump)	4	CITY HALL	N/A	none		
41081	stump (Stump)	9	CITY HALL	N/A	none		
40947	dogwood: flowering (Cornus florida)	0.6	CITY HALL	Low	YTTP		
40966	arborvitae: eastern (Thuja occidentalis)	5.8	CITY HALL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		
40992	arborvitae: eastern (Thuja occidentalis)	5.6	CITY HALL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		

41002	arborvitae: eastern (Thuja occidentalis)	7.6	CITY HALL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		
41012	arborvitae: eastern (Thuja occidentalis)	5.5	CITY HALL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		
41030	pear: callery (Pyrus calleryana)	12.9	CITY HALL	Low	None. Gone		
41031	arborvitae: eastern (Thuja occidentalis)	6.8	CITY HALL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		
41041	zelkova: Japanese (Zelkova serrata)	16.5	CITY HALL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights		
41042	maple: red (Acer rubrum)	11.3	CITY HALL	Low	None. Gone		
41047	maple: red (Acer rubrum)	12.2	CITY HALL	Low	None. Gone		
41052	zelkova: Japanese (Zelkova serrata)	14.7	CITY HALL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights		
41076	ash: green (Fraxinus pennsylvanica)	17	CITY HALL	Low	None. Gone		
41082	oak: pin (Quercus palustris)	15.5	CITY HALL	Low	None. Gone		
41093	ash: green (Fraxinus pennsylvanica)	14	CITY HALL	Low	None. Gone		

41102	ash: green (Fraxinus pennsylvanica)	12.9	CITY HALL	Low	None. Gone		
41122	crabapple: flowering (Malus spp.)	5.5	CITY HALL	Low	Prune to remove deadwood cankered and blighted branches greater than 2" in diameter		
41155	pear: callery (Pyrus calleryana)	17	CITY HALL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 4-6' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Prune to limit weight and leverage over the streer thru a series of (8-10) 1-4" cuts. Lights. detail		
41091	mulberry: white (Morus alba)	8.3	CITY HALL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground. Prune to improve structure, remove crossing limbs. Lights		
41109	crabapple: flowering (Malus spp.)	10.2	CITY HALL	Low	Prune to remove deadwood cankered and blighted branches greater than 2" in diameter, thin low waterspouts. Lights		
40958	zelkova: Japanese (Zelkova serrata)	17.3	CITY HALL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights		
41120	crabapple: flowering (Malus spp.)	9.1	CITY HALL	Low	Prune to remove deadwood cankered and blighted branches greater than 2" in diameter, thin low waterspouts. Lights		
41112	crabapple: flowering (Malus spp.)	10.4	CITY HALL	Low	Prune to remove deadwood cankered and blighted branches greater than 2" in diameter		
41101	crabapple: flowering (Malus spp.)	8.8	CITY HALL	Low	Prune to remove deadwood cankered and blighted branches greater than 2" in diameter, thin low waterspouts. Lights		
41145	pear: callery (Pyrus calleryana)	18.3	CITY HALL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 4-6' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Prune to limit weight and leverage over the streer thru a series of (8-10) 1-4" cuts. Lights. detail		

18528	maple: Norway (Acer platanoides)	15.9	N/A	Moderate	Removal. City arranging on separate contract		
18495	honeylocust: thornless (Gleditsia triacanthos inermis)	7.4	N/A	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding utilities, 8-10' of ground and sidewalk, 14' off of street. City arranging on separate contract		
18564	honeylocust: thornless (Gleditsia triacanthos inermis)	12.8	N/A	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding utilities, 8-10' of ground and sidewalk, 14' off of street. City arranging on separate contract		
18570	honeylocust: thornless (Gleditsia triacanthos inermis)	12	N/A	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding utilities, 8-10' of ground and sidewalk, 14' off of street. City arranging on separate contract		
18494	honeylocust: thornless (Gleditsia triacanthos inermis)	12.2	N/A	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding utilities, 8-10' of ground and sidewalk, 14' off of street. City arranging on separate contract		
40989	stump (Stump)	13	SOMERVILLE HIGH SCHOOL	N/A	none		
40999	stump (Stump)	12	SOMERVILLE HIGH SCHOOL	N/A	none		
41108	stump (Stump)	8	SOMERVILLE HIGH SCHOOL	N/A	none		
40925	stump (Stump)	6	SOMERVILLE HIGH SCHOOL	N/A	none		
41058	pine: Austrian (Pinus nigra)	16.9	SOMERVILLE HIGH SCHOOL	Moderate	Prune to remove low deadwood greater than 2" in diameter. Cable. Lights.		
40932	elm: hybrid (Ulmus x)	4.9	SOMERVILLE HIGH SCHOOL	Low	Prune to improve structure. Raise 8' off of ground, 2-3' off of the monument.		

40934	pine: Austrian (Pinus nigra)	14.2	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
40937	zelkova: Japanese (Zelkova serrata)	6.7	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
40941	maple: red (Acer rubrum)	17.3	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 4-6' off of the monument- includes removing several 2-4" low limbs, 8-10' of ground and sidewalk, 14' off of street. Lights		
40946	pine: Austrian (Pinus nigra)	18.4	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights. Root prune		
40949	zelkova: Japanese (Zelkova serrata)	6.9	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
40952	arborvitae: eastern (Thuja occidentalis)	5.6	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		
40962	arborvitae: eastern (Thuja occidentalis)	5.1	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		
40967	pine: Austrian (Pinus nigra)	18.3	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
40969	lilac: Japanese tree (Syringa reticulata)	9.1	SOMERVILLE HIGH SCHOOL	Low	none		
40971	arborvitae: eastern (Thuja occidentalis)	3.1	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		

40975	maple: red (Acer rubrum)	17.5	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		
40979	crabapple: flowering (Malus spp.)	11.2	SOMERVILLE HIGH SCHOOL	Low	none		
40983	arborvitae: eastern (Thuja occidentalis)	3.7	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		
40984	maple: red (Acer rubrum)	13.8	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		
41001	maple: Norway (Acer platanoides)	19.5	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights.		
41008	maple: red (Acer rubrum)	16	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		
41011	dogwood: Kousa (Cornus kousa)	12.3	SOMERVILLE HIGH SCHOOL	Low	Prune to remove deadwood, improve structure, limit encroachment onto surrounding buildings		
41018	maple: red (Acer rubrum)	16.3	SOMERVILLE HIGH SCHOOL	Low	Gone.		
41020	maple: red (Acer rubrum)	12.9	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		
41026	maple: red (Acer rubrum)	14.1	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		

41039	maple: red (Acer rubrum)	15.5	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		
41044	pine: Austrian (Pinus nigra)	17.6	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
41066	pine: Austrian (Pinus nigra)	15.2	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights root prune		
41141	maple: red (Acer rubrum)	13.1	SOMERVILLE HIGH SCHOOL	Low	Declining. Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		
41143	crabapple: flowering (Malus spp.)	13.9	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
41153	crabapple: flowering (Malus spp.)	13.1	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
41161	crabapple: flowering (Malus spp.)	11.3	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
41119	crabapple: flowering (Malus spp.)	7.7	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
41067	mulberry: white (Morus alba)	17.1	SOMERVILLE HIGH SCHOOL	Low	Gone.		
41129	crabapple: flowering (Malus spp.)	6.3	SOMERVILLE HIGH SCHOOL	Low	Prune to ground level		
40957	pear: callery (Pyrus calleryana)	6.8	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Prune to correct structure. Lights		

41100	crabapple: flowering (Malus spp.)	10.2	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
41089	zelkova: Japanese (Zelkova serrata)	10.3	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
41166	zelkova: Japanese (Zelkova serrata)	9.5	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
40960	zelkova: Japanese (Zelkova serrata)	6.6	SOMERVILLE HIGH SCHOOL	Low	Prune to remove low deadwood greater than 2" in diameter. Lights		
40995	linden: littleleaf (Tilia cordata)	29.3	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights.		
41150	birch: paper (Betula papyrifera)	17.4	SOMERVILLE HIGH SCHOOL	Low	Dead. Remove grind stump		
	Total Pruning				3 days, large crew		
	Root prune 7 trees				roots smaller than 1" in diameter		
	removing lights				Approx 40 trees are wrapped in lights. To cut out and remove lights would cost approx 1-2 pruning hrs additional per tree. \$7000 estimated		
	Cable				1 cable		
	Stump grinding				1 stump		
	Biostim 3000ft sq				Stressed red pines and zelcova along highland, zelcova in tree wells by old admin building		
	Police detail				3 days		
	Permits						

				Total: Lights removed prior			
	Reports			Before and After			

[REDACTED]

[REDACTED]

Soil Test Report

Prepared For:

Sonia Vivas
Barrett Tree Service East Inc
340 Middlesex Ave
Medford, MA 02155

svivas@barrettreeseast.com
617-616-5281

Sample Information:

Sample ID: H7174

Order Number: 64152

Lab Number: S230221-109

Area Sampled:

Received: 2/21/2023

Reported: 3/3/2023

Results

<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>	<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>
Soil pH (1:1, H ₂ O)	5.8		Cation Exch. Capacity, meq/100g	15.4	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	8.2	
<i>Macronutrients</i>			Base Saturation, %		
Phosphorus (P)	6.0	4-14	Calcium Base Saturation	38	50-80
Potassium (K)	98	100-160	Magnesium Base Saturation	7	10-30
Calcium (Ca)	1178	1000-1500	Potassium Base Saturation	2	2.0-7.0
Magnesium (Mg)	140	50-120	Scoop Density, g/cc	0.94	
Sulfur (S)	14.4	>10	Optional tests		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	6.8	
Boron (B)	0.1	0.1-0.5			
Manganese (Mn)	6.1	1.1-6.3			
Zinc (Zn)	11.3	1.0-7.6			
Copper (Cu)	2.0	0.3-0.6			
Iron (Fe)	10.3	2.7-9.4			
Aluminum (Al)	102	<75			
Lead (Pb)	25.5	<22			

* Micronutrient deficiencies rarely occur in New England soils; therefore, an Optimum Range has never been defined. Values provided represent the normal range found in soils and are for reference only.

Soil Test Interpretation

Nutrient	Very Low	Low	Optimum	Above Optimum
Phosphorus (P):				
Potassium (K):				
Calcium (Ca):				
Magnesium (Mg):				

Recommendations for Deciduous Trees, Shrubs & Vines-Maintenance

Limestone (Target pH of 6.0)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
10	.1 - .2	0.1	0.25

Comments:

-The lead level in this soil is elevated. It is recommended that soils with elevated levels of extractable lead (greater than 22 ppm) be tested for Total Sorbed Lead. The UMass Soil Lab offers a Total Sorbed Metals test that measures total lead and other heavy metals. Ordering information can be found on our website here: <https://soiltest.umass.edu/ordering-information>. For more information about lead levels in soil, see the fact sheet entitled "Soil Lead: Testing, Interpretation, & Recommendations," listed under General References at the end of this report. ATTN: The Total Sorbed Metals Test is currently unavailable. Please visit our website for more information. We apologize for any inconvenience.

-Do not topdress with more than 5 lb limestone per 100 sq ft at one time. Split the above application between early spring and mid-autumn.

*To supply Nitrogen, apply EITHER 1 - 1.5 lbs. Dried Blood (12-0-0) OR 0.2 - 0.4 lbs. Urea (45-0-0) per 100 square feet. Application should be split between early spring and mid-June.

*To supply Phosphorus, apply EITHER 0.8 lbs. Bone Meal (4-12-0) OR 0.2 lb. Triple Phosphate (0-45-0) per 100 square feet.

*To supply Potassium, apply 0.4 lbs. Potash (0-0-60) per 100 square feet.

-For instructions on converting nutrient recommendations to fertilizer applications in home gardens and landscapes, see Reference "Step-by-Step Fertilizer Guide for Home Grounds and Gardening" (listed below).

References:

Home Lawn and Garden Information <http://ag.umass.edu/resources/home-lawn-garden>

Step-by-Step Fertilizer Guide for Home Grounds and Gardening <https://ag.umass.edu/SPNTL-4>

General References:

Interpreting Your Soil Test Results <http://soiltest.umass.edu/fact-sheets/interpreting-your-soil-test-results>

Soil Lead: Testing, Interpretation & Recommendations <http://ag.umass.edu/soil-plant-nutrient-testing-laboratory/fact-sheets/soil-lead-fact-sheet>

For current information and order forms, please visit <http://soiltest.umass.edu/>

UMass Extension Nutrient Management <http://ag.umass.edu/agriculture-resources/nutrient-management>