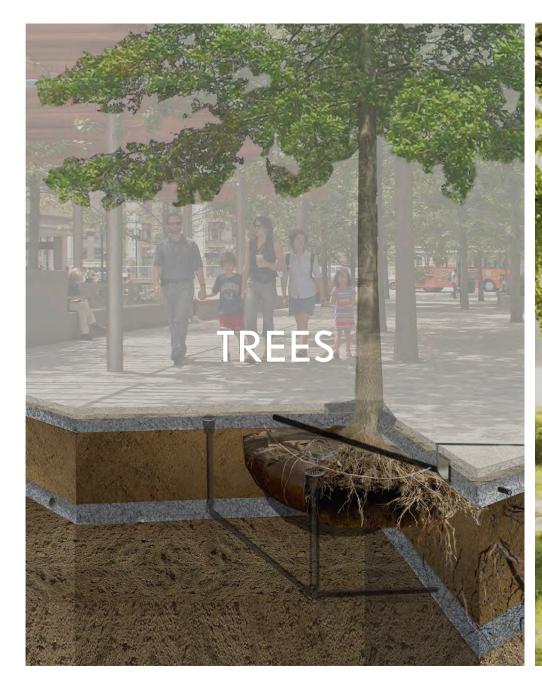


INTRODUCTION PRACTICE / ARBORICULTURE ADVOCACY / REGULATION DISCUSSION AND QUESTIONS **PUBLIC COMMENTS**

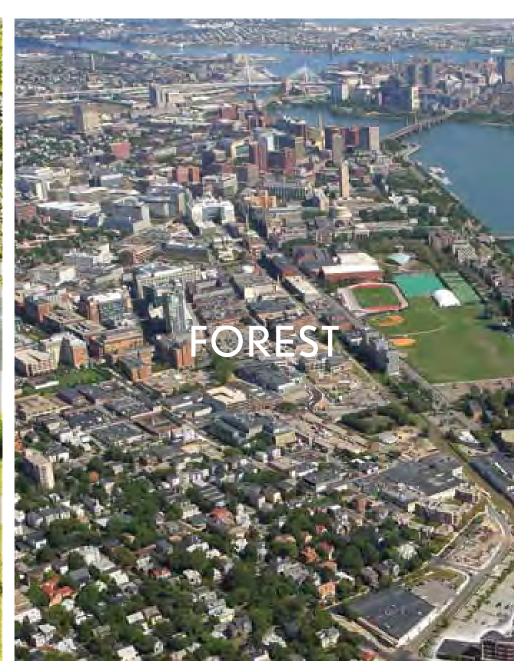
To maintain, plan, build, and sustain a healthy, connective urban forest at a time when the urban forest is more important than ever before.

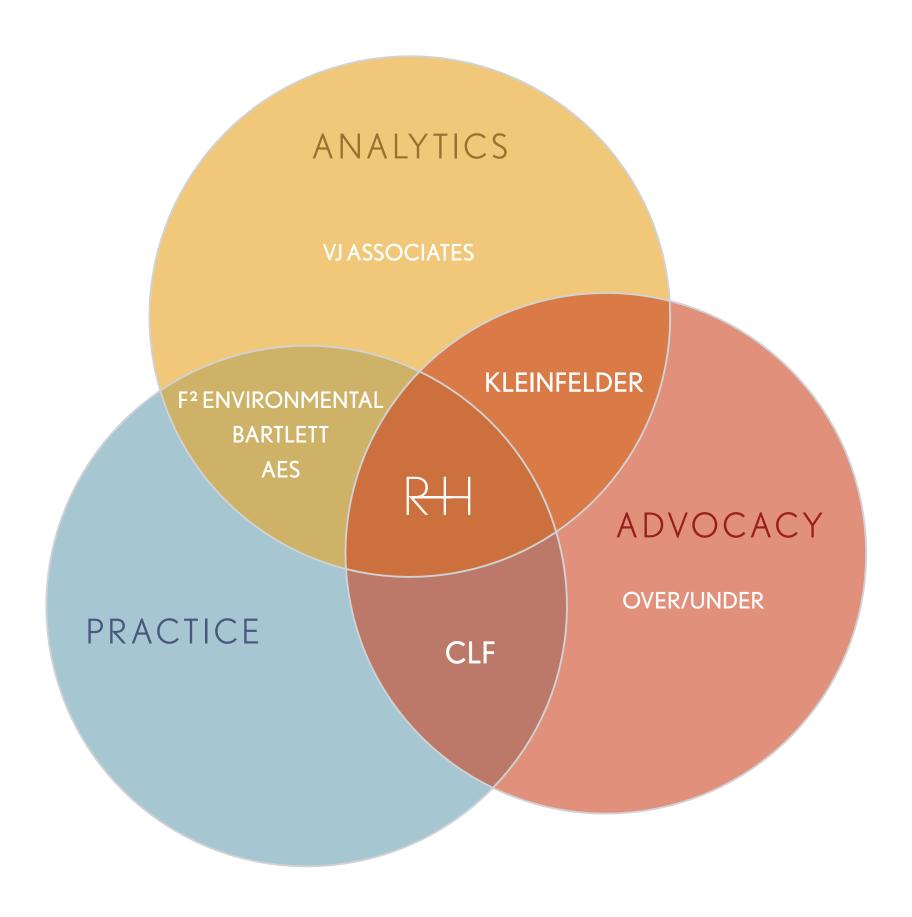
How do we measure success?

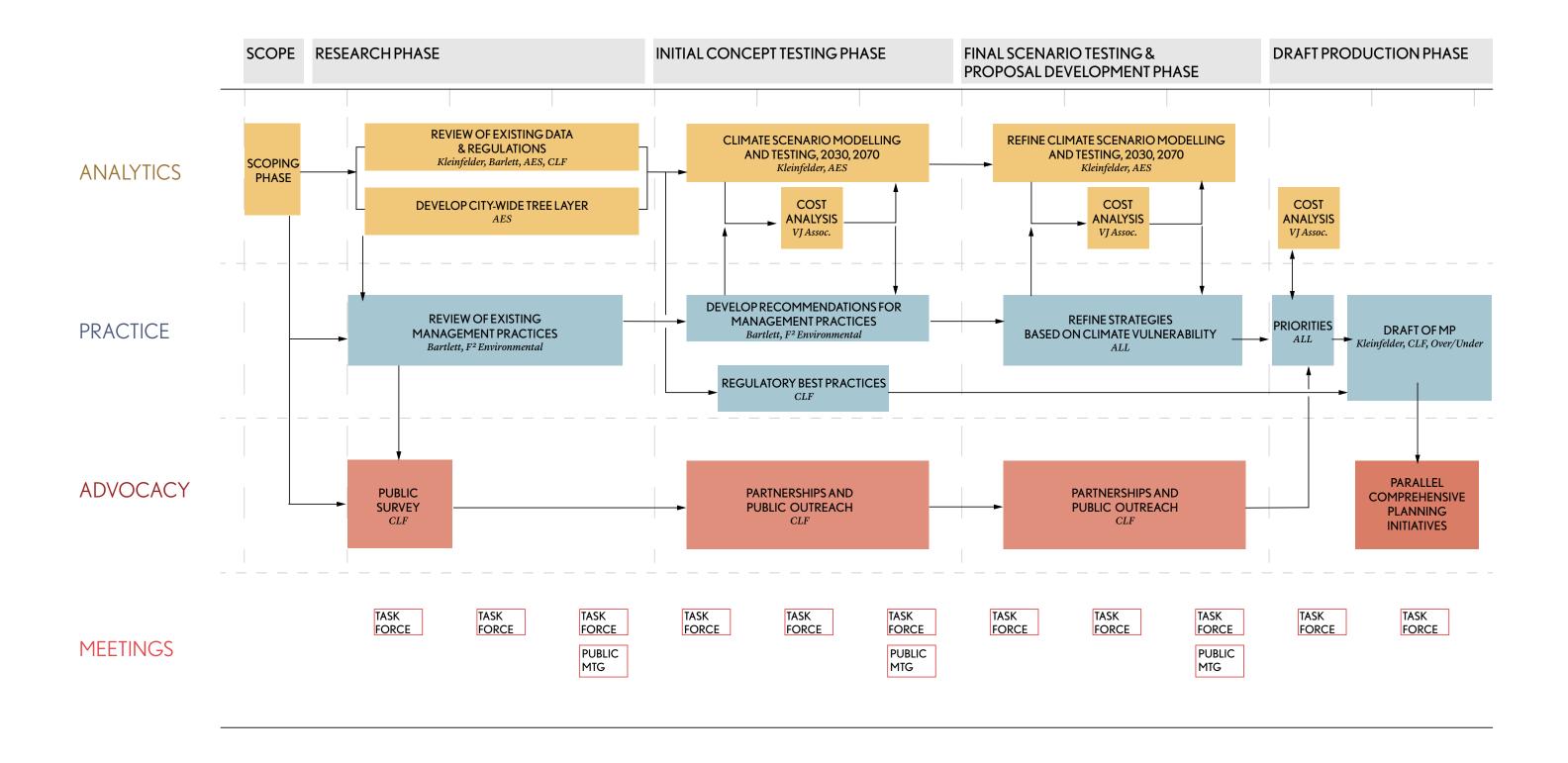
THINKING TELESCOPICALLY | MANAGING HEALTHY AND CONNECTED SYSTEMS

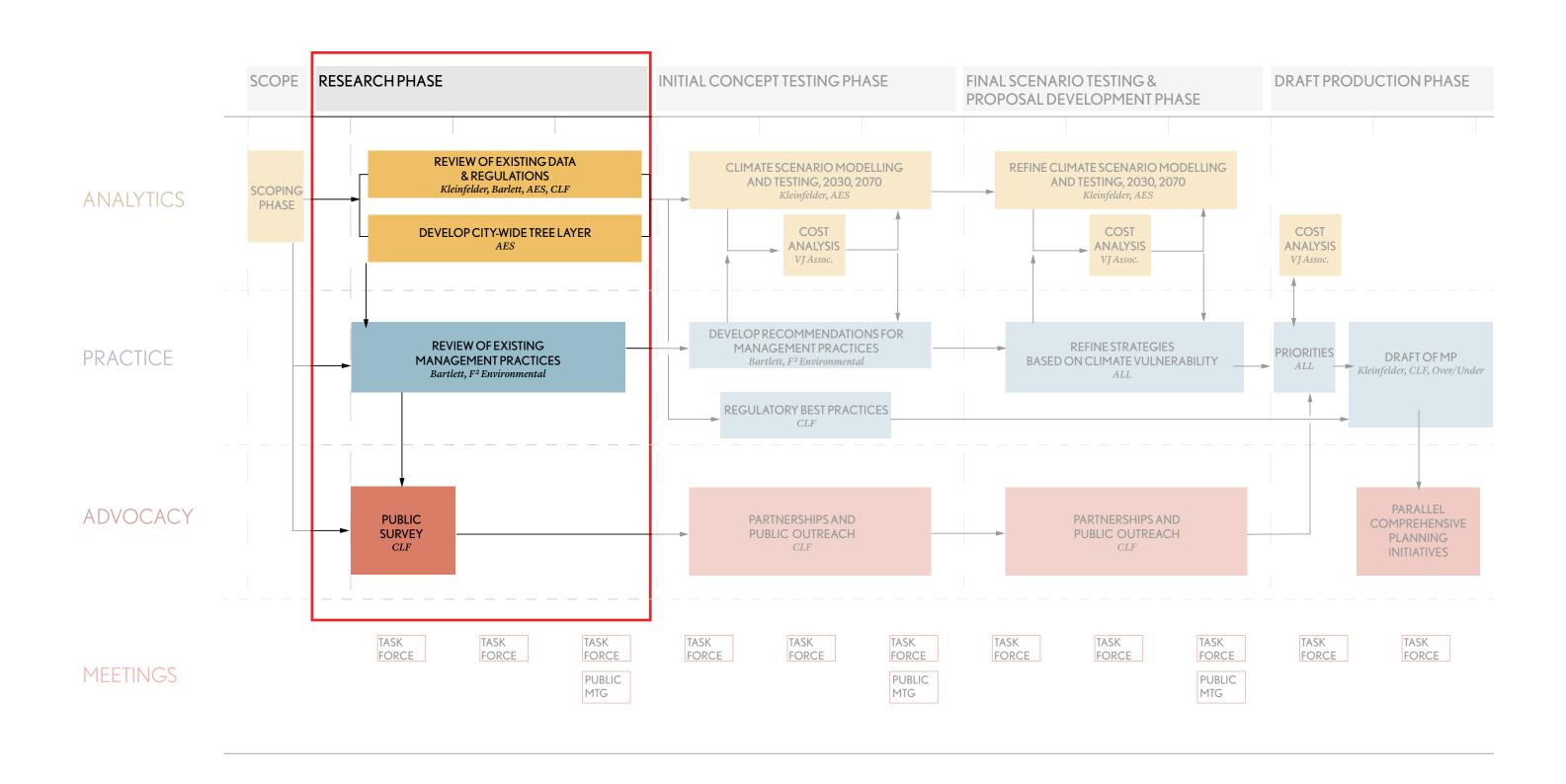








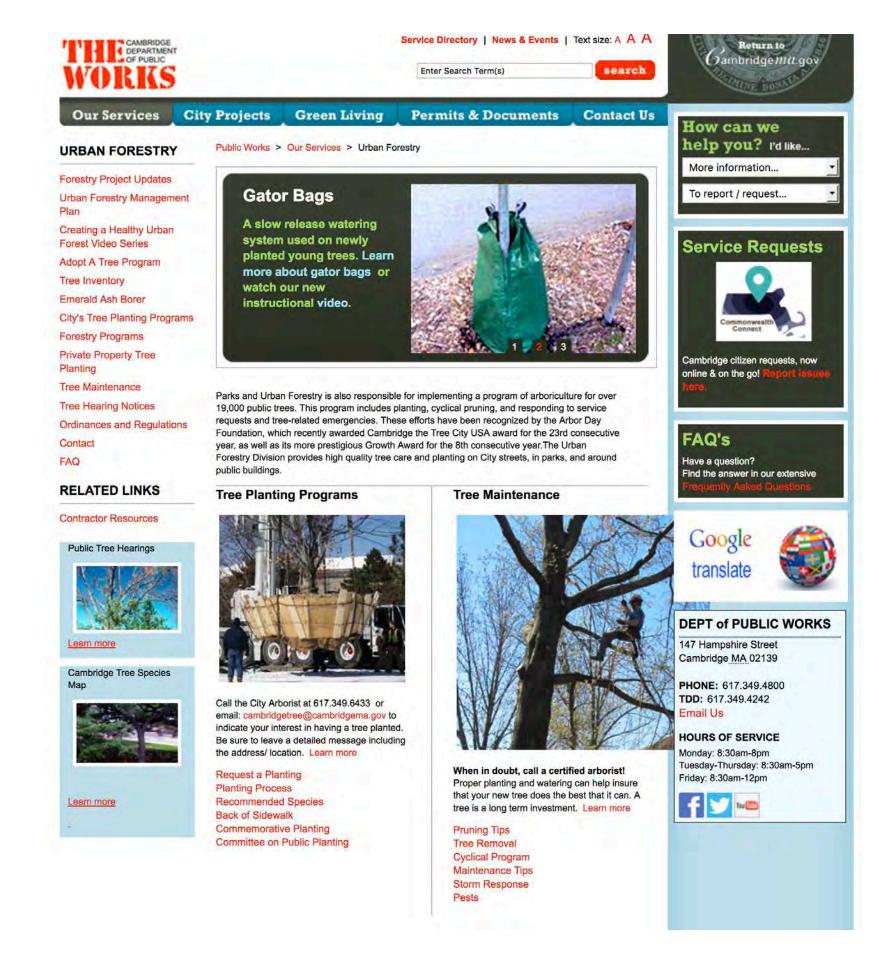




PRACTICE

ARBORICULTURE ABOVE AND BELOW GROUND

PRACTICE | URBAN FORESTRY Public Identity



PRACTICE | URBAN FORESTRY

Cambridge has a strong and growing department

- Forestry Budget: \$18 per capita in 2016 and \$19.75 per capita 2017. (Compare with \$7.30 average per capita spending for other Tree Cities in MA)
- Today the average municipal expenditure on tree planting in U.S. is \$5.83 per capita (Nature Conservancy report)
- 6 out of 8 forestry staff are certified arborists
- Forestry division growing
- Cartegraph, new Tree tracking system



PRACTICE | URBAN FORESTRY

Tree performance depends on management above grade and below



CURRENT PRACTICES
CHALLENGES
ADDITIONAL RESEARCH
BEST MANAGEMENT PRACTICES
OPEN QUESTIONS / NEXT STEPS

Above Ground

- Species Selection
- Pruning
- Pests & Diseases
- Tree Removal

ABOVE GROUND | SPECIES SELECTION

City of Cambridge recommends select species for new planting

Ornamental Tree (overhead wires present)	Height (feet)
Amur maackia (Maackia amurensis)	20-30
Accolade cherry (Prunus 'Accolade')	20
Akebono cherry (Prunus x yedoensis 'Akebono')	25
Autumn cherry (Prunus subhirtella 'Autumnalis')	25-40
Crabapple spp (Malus sp.)	15-25
Eastern redbud (Cercis canadensis)	20-30
Hedge Maple (Acer campestre)	25-30
Japanese tree lilac (Syringa reticulata)	20-30
Kwanzan cherry (Prunus serrulata 'Kwanzan')	25
Okame cherry (Prunus x incam 'Okame')	15-25
Paperbark maple (Acer griseum)	30
Sargent cherry (Prunus sargentii)	25-40
Serviceberry (Amelanchier sp.)	20-30
Snowgoose cherry (Prunus serrulata 'Snowgoose')	20

Shade Tree (no wires present)	Height (feet)
American elm (Ulmus americana)	50-70
Armstrong Red maple (Acer x freemanii)	50-70
Black oak (Quercus velutina)	50-60
Black tupelo (Nyssa sylvatica)	30-50
Dawn redwood (Metasequoia glyptostroboides)	75
Elm cultivars (Ulmus sp.)	40-60
Ginkgo (Gingko biloba)	40-80
Golden raintree (Koelreuteria paniculata)	30-40
Hackberry (Celtis occidentalis)	60
Honeylocust (Gleditsia triacanthos)	45-50
Hombeam (Carpinus caroliniana)	35
Katsuratree (Cercidiphyllum japonicum)	50
Kentucky coffeetree (Gymnocladus dioicus)	75
Littleleaf linden (Tilia cordata)	45-60
London planetree (Platanus x acerifolia)	80
Pear spp (Pyrus sp.)	30-40
Pin oak (Quercus palustris)	75
Red maple (Acer rubrum)	40-70
Red oak (Quercus rubra)	75
River birch (Betula nigra)	50-70
Silver linden (Tilia tormentosa)	30-40
Sophora (Sophora (Styphnolobium) japonica)	50
Swamp White oak (Quercus bicolor)	45
Sweetgum (Liquidambar styraciflua)	65
Tuliptree (Liriodendron tulipifera)	70-90
Zelkova (Zelkova serrata)	50-70

ABOVE GROUND | PRUNING

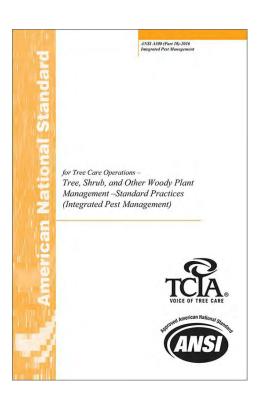
Approach is proactive and reactive

Proactive

- 6 year street tree/8 year municipal tree rotation scheduled under contract
- Pruning contract follows American National Standard for Tree Care Operations
- Pruning around utilities Eversource relationship

Reactive

- Hazard
- Storm damage
- Public notice





http://www.reddeer.ca/city-services/electric-light-and-power/electrical-safety-information/trees-and-power-lines/

ABOVE GROUND | PESTS + DISEASES

Existing threats are managed pro-actively



EMERALD ASH BORER

https://www.constructionspecifier.com/seeing-the-urban-forests-for-the-trees-secondary-benefits-of-our-cities-wood-2/



DUTCH ELM DISEASE

http://hvphc.com/wp/wp-content/uploads/2012/03/Dutch_Elm_Disease.jpg

ABOVE GROUND | PESTS + DISEASES

Existing threats are managed pro-actively

—Pest treatment at Fresh Pond



HEMLOCK WOOLY ADELGID

https://en.wikipedia.org/wiki/Adelgidae

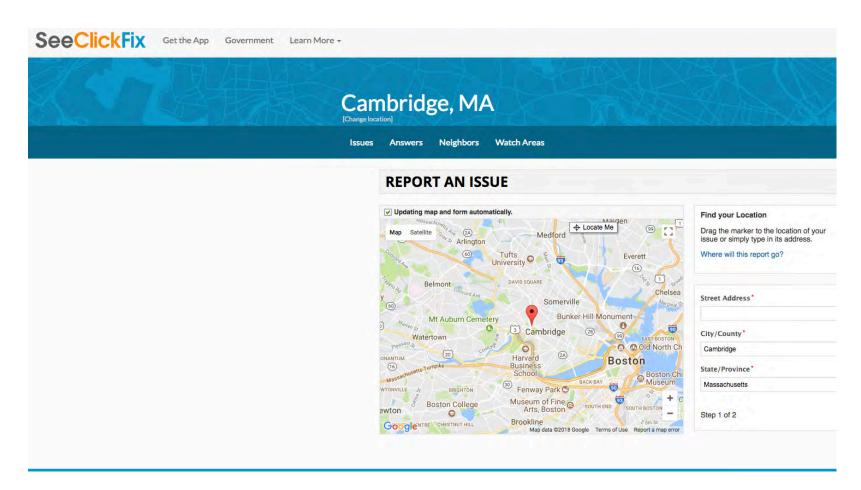


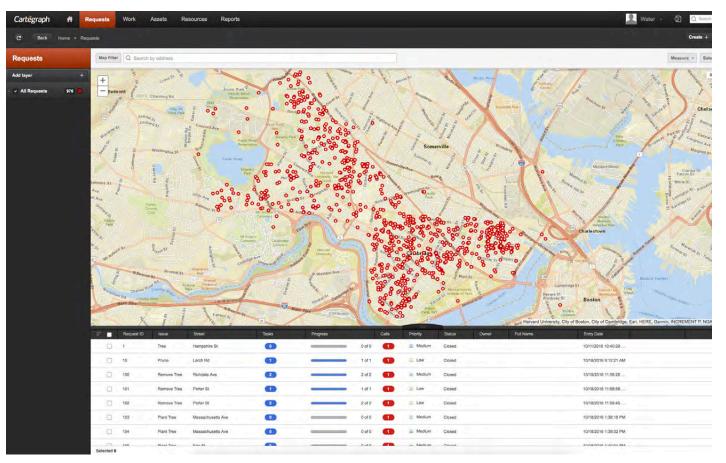
WINTER MOTH

https://www.cedarlawn.com/plant-health-care/winter-moth-control/

ABOVE GROUND | TREE REMOVALS

Removals are identified and tracked electronically





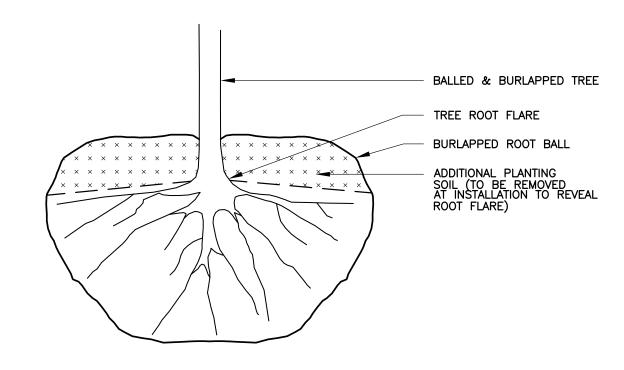
CLICK-FIX

CARTEGRAPH

Below Ground

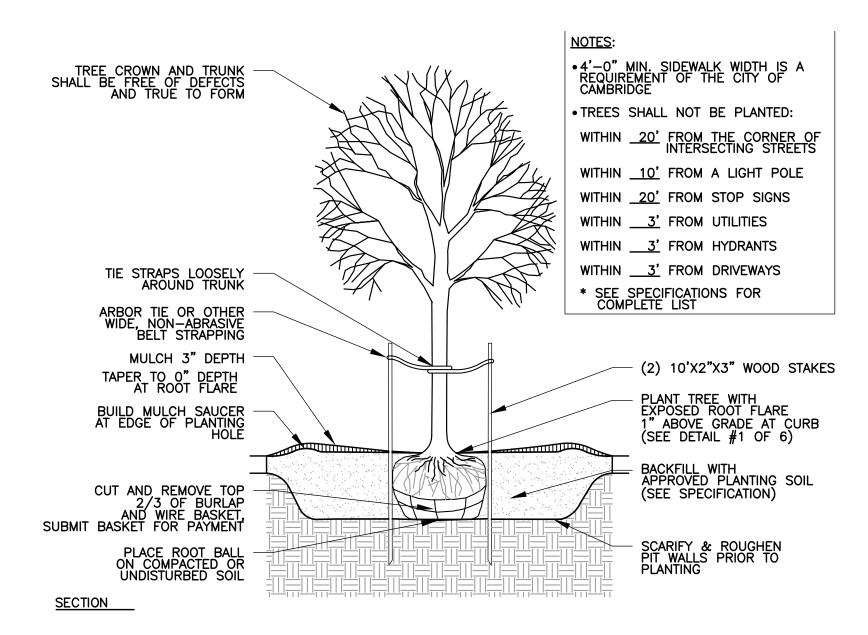
- Planting Details
- Irrigation
- Mulching
- Soil Details

Standard replanting: expose root flare



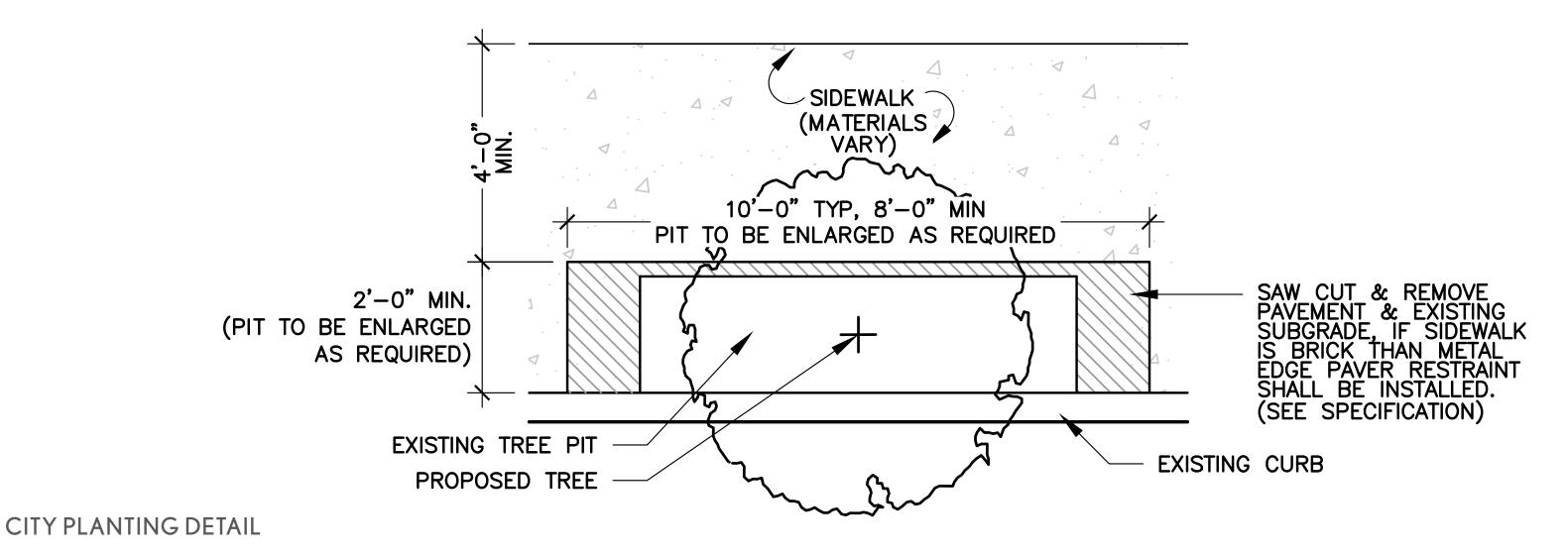
NOTE: TREE TO BE PLANTED WITH EXPOSED ROOT FLARE 1" ABOVE GRADE AT CURB

CITY PLANTING DETAIL

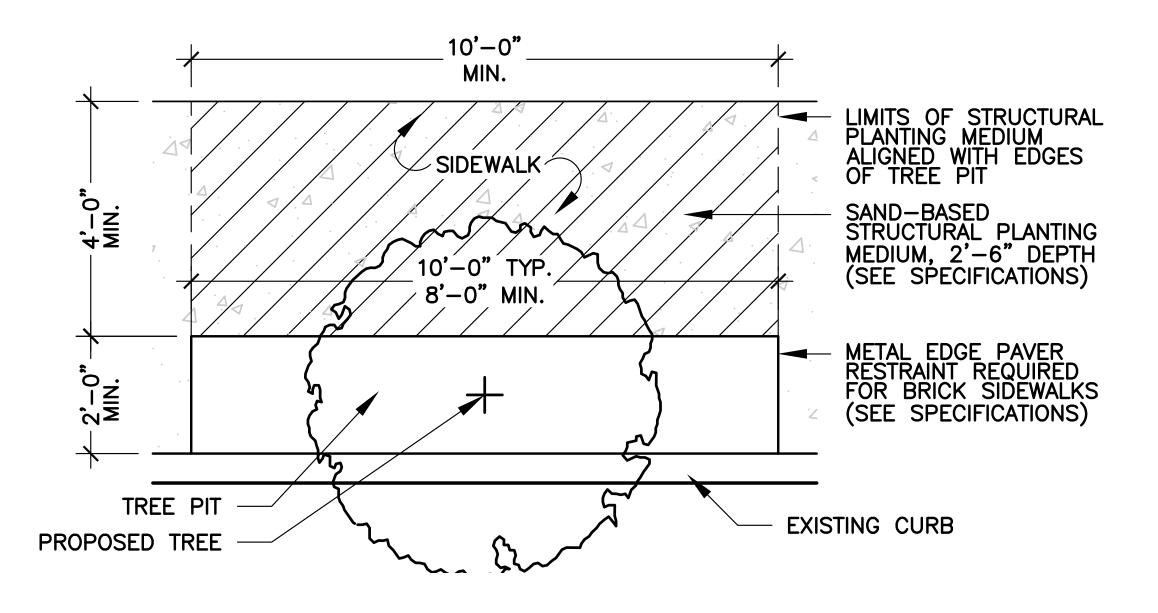


Standard replanting: mininum soil area, 48 cu ft New standard for fall plantings

ADAAG R301.3.1 (recommended) min sidewalk pinch point of 4'

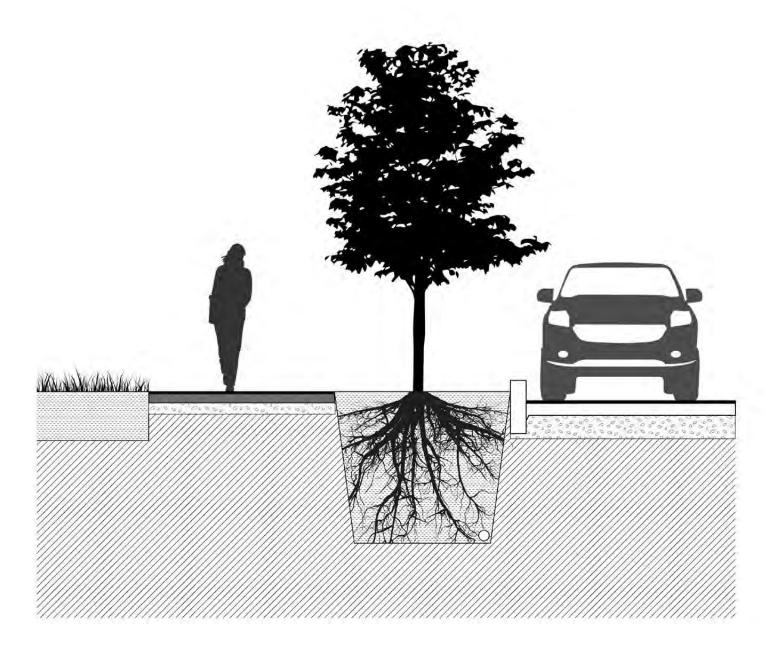


New Plantings with rebuilt sidewalk: mininum soil area 144 cu ft +

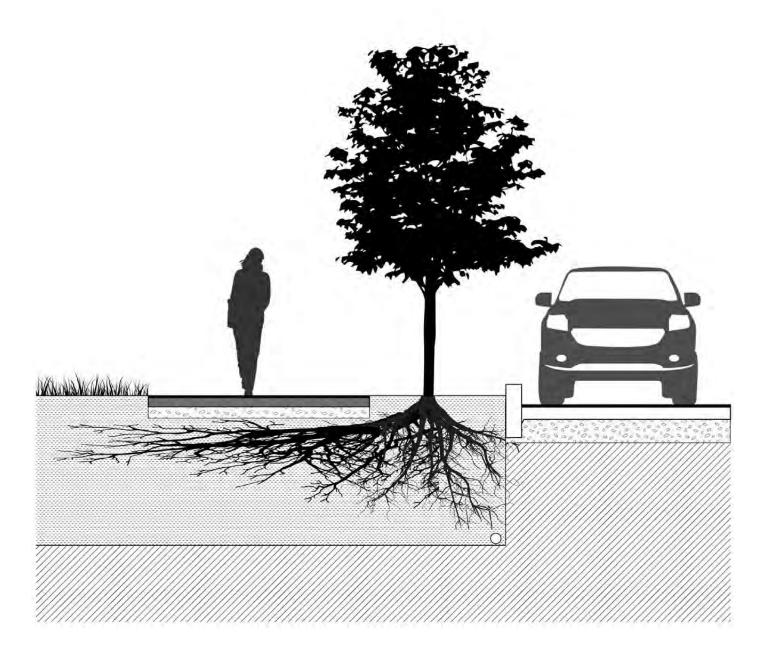


CITY PLANTING DETAIL

Strategies maximize soil volumes

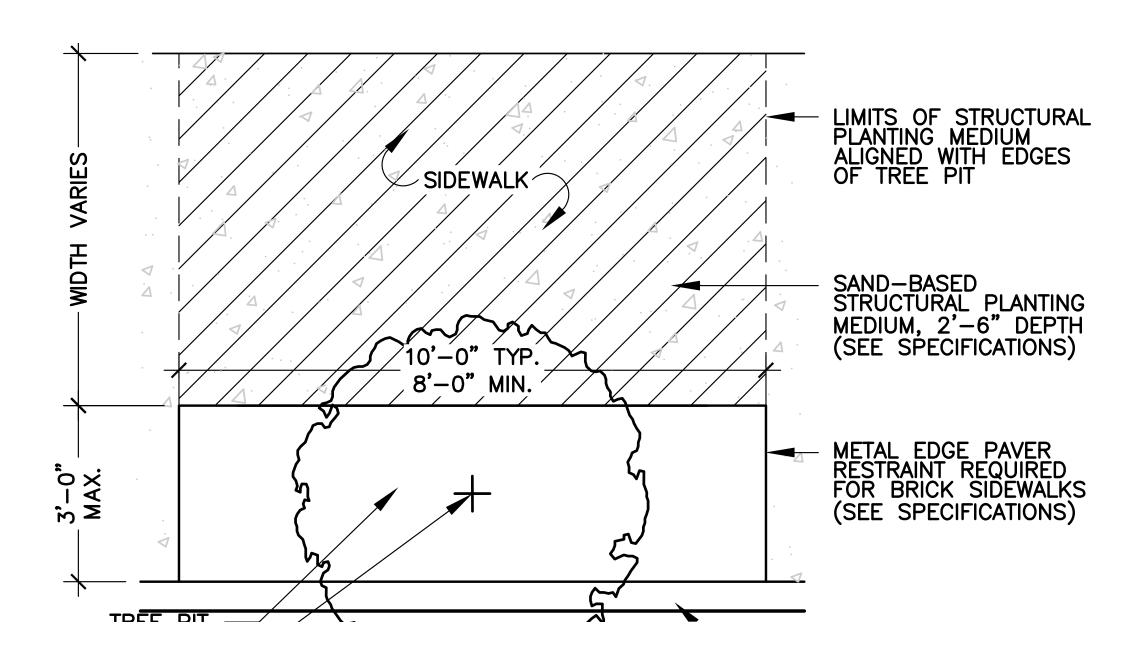


TREES CONFINED IN PITS



TREEWAYS WITH STRUCTURAL SOIL UNDER SIDEWALKS

New Plantings with rebuilt sidewalk: SBSS extent grows as sidewalk widens



CITY PLANTING DETAIL

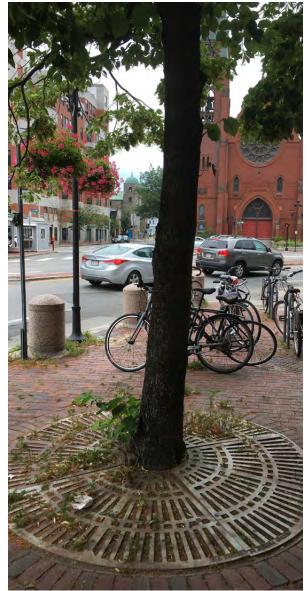
PRACTICE | PLANTING DETAILS – SURFACE TREATMENT

Strategies for managing access and limiting compaction











OPEN PIT PLANTING BED

MULCH TREE GI

TREE GRATE FLEXIPAVE

PRACTICE | IRRIGATION

For establishment and maintenance



GATOR BAGS

http://www.homegardeningproducts.com/Treegator-Original-Slow-Release-Watering-Bag-98183-R_p_3.html



WATER BY BIKE PROGRAM

REED HILDERBRAND CAMBRIDGE URBAN FOREST MASTER PLAN TASK FORCE MEETING 2 | JUNE 28, 2018 27

PRACTICE | MULCH

Performance Mulch with Organic Compost - Park trees

2.05 MULCH

- A. Mulch shall be high quality, shredded or double-ground, premium bark mulch consisting of clean, organic plant material.
- B. Shall be uniform in color, a good brown color. The composition of the shredded pine bark material shall not exhibit a noticeable degree of any color change characteristics when wet.
- C. The mulch must be free of dirt, insects, disease and extraneous debris that would be harmful to all trees being installed.
- D. The shredded pine bark mulch material shall not have an unpleasant odor.
- E. Bark Mulch shall be a well-graded material conforming to the following:
 - 1. pH between 4.0 8.0
 - 2. Particle size 100% passing a 50mm (2 inch) screen
 - 3. Soluble salt content < 4.0 mmhos/cm
- F. Prior to the Contractor ordering shredded pine bark mulch material, the Contractor shall submit to the City Arborist, at the Contractor's expense, one cubic foot sample of the shredded pine bark mulch material. The Contractor shall not order any delivery of the shredded pine bark mulch material until the Contractor's sample has been inspected and approved by the City Arborist.
- G. If the City Arborist disapproves of the sample submitted by the Contractor, then the Contractor shall continue at no expense to the City, to obtain other sources of pine bark mulch material as specified until the Contractor's sample of such material, meets with the City Arborist's approval.

2017 Delivered Prices

Jan- March	April - June
\$ Per Yard	\$ Per Yard
\$29.50	\$30.00
\$26.50	\$27.00
\$27.00	\$28.50
\$26.25	\$26.75
\$24.25	\$24.75
\$27.50	\$28.50
\$24.25	\$24.75
\$22.00	\$22.50
\$25.00	\$26.00
\$29.00	\$30.00
\$20.00	\$21.00
	\$ Per Yard \$29.50 \$26.50 \$27.00 \$26.25 \$24.25 \$27.50 \$24.25 \$22.00 \$25.00 \$29.00

SPECIAL

7 6/compost

7 instead of

10/solids

50/50

Call 207-232-3329

930 CUYD DELLVERED

Loads must be delivered on or before March 31st to receive early season price.

Prices are based on full trailer loads.

COD or Terms based on credit approval. We accept Visa and MasterCard. Past due balances over agreed terms are subject to a 1.5% per month late fee. A fuel surcharge may apply if diesel prices reach \$3.00 per gallon.

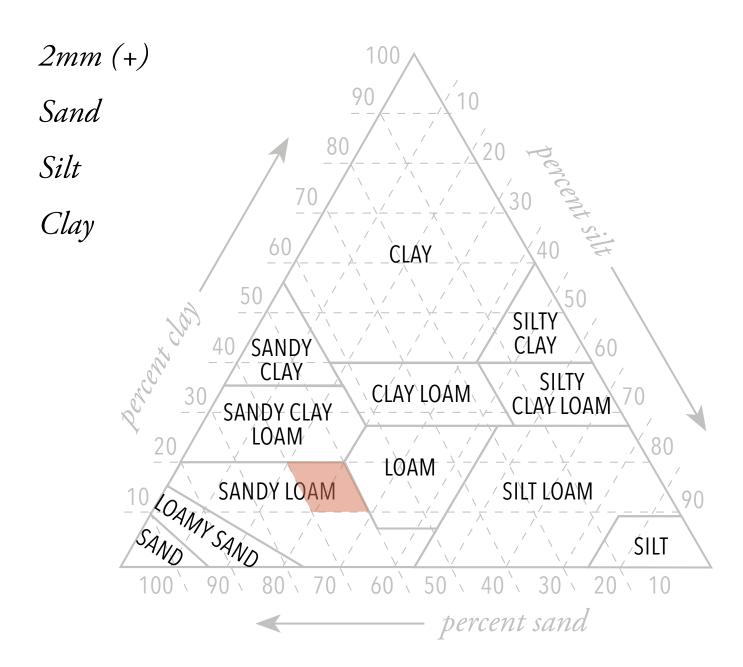
Performance Mulch w/ Organic Compost 50/50

REED HILDERBRAND TASK FORCE MEETING 2 | JUNE 28, 2018

Traditionally uses compost/biosolids (sludge)

PRACTICE | SOILS

Characterizing standard re-planting soils



2.01 PLANTING SOILS

- A. Contractor shall provide all planting soil required to complete the planting operation. Planting soil shall be a natural, fertile, friable loam typical of cultivated planting soil of the locality, containing at least 10% and not more than 20% decayed organic matter (humus). Planting soil shall be free of subsoil, stones greater than one and one-quarter inches, earth clods, sticks, stumps, clay lumps, roots, or other objectionable, extraneous matter or debris. Planting soil shall not be by test either excessively acid or alkaline nor contain toxic substances. Planting soil shall not be delivered or used for planting while in a frozen or muddy condition.
- B. Soil for planting trees shall be one of the following sandy loams; "course sandy loam", "sandy loam", and "fine sandy loam": determined by mechanical analysis (ASTM D 422) and based on the "USDA Classification System" and as defined in this Section. It shall be of uniform composition, without admixture of subsoil. Planting soil for trees shall have the following grain size distribution for material passing the #10 sieve:

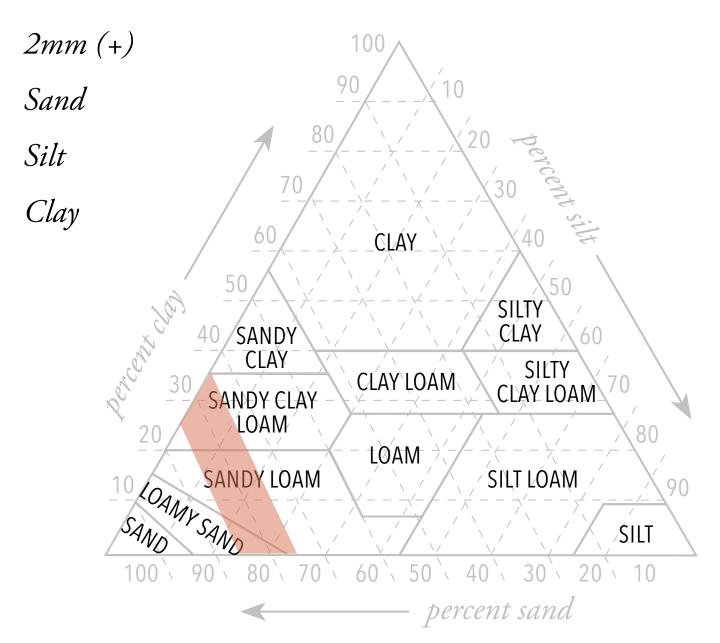
Millimeter	Percent Passing by Weight		
	Maximum	Minimum	
2		100	
1	100	80	
0.5	87	67	
0.25	78	48	
0.10	68	30	
0.05	55	22	
0.002	7	2	

- 1. Maximum size shall be one and one quarter inches largest dimension. The maximum retained on the #10 sieve shall be 25% by weight of the total sample.
- 2. The ratio of the particle size for 80% passing (D₈₀) to the particle size for 30% passing (D₃₀) shall be 6.0 or less. (D₈₀/D₃₀ < 6.0)
- C. Name of planting soil supplier and sample to be approved by the City Arborist.

City of TREE PLANTING CONTRACT - SPECIFICATIONS Cambridge 3

PRACTICE | SOILS

Characterizing sand-based structural soils



2.02 STRUCTURAL PLANTING MEDIUM ("SPM")

- A. In specific areas designated in the Contract Documents the soil underlying the pavement cross section and the granular base material will be replaced with a material designed to structurally support the pavement slab and promote the root growth of street trees. This soil will be called Structural Planting Medium in this Section and shall be a mixture of Sand, Base Loam and Compost. Structural Planting Medium shall be the manufactured product of a commercial processing facility specializing in the production of manufactured soils and loam borrow. Structural Planting Medium shall be manufactured from sands, loams and compost, in accordance with the requirements of this Section. Structural Planting Medium shall be manufactured outside the Project limits and transported onto the Project for placement.
- B. The Structural Planting Medium shall consist of a blend of four parts by volume of Sand, one part by volume of Planting Soil and one part by volume of Compost. Blending of the components shall be carried out with earth moving equipment prior to placement. The components shall be blended to create a uniform mixture as determined by the Owner's Representative.
- C. Structural Planting Medium gradation shall be determined by the Soil and Plant Tissue Laboratory, University of Massachusetts, Amherst, using H₂O₂ to destroy organic matter. Structural Planting Medium shall conform to the following grain size distribution for material passing the #4 sieve:

U.S. Sieve No.	Percent Passi	ng by Weight
	Maximum	Minimum
#4		100
#10	81	100
#20	57	88
#40	27	57
#100	11	24
#200	08	12
.002mm	01	02

- D. Structural Planting Medium shall not contain less than 1.5 percent nor more than 3.0 percent organic matter as determined by the loss on ignition of oven-dried samples passing #10 sieve (Muffle furnace temperature: 450 +/- 10 degrees C for 8 hours).
- E. The acidity range of the Structural Planting Medium shall be pH 5.5 to 6.5. Structural Planting Medium shall have a starting pH of no lower than 5.0 at the manufacturing site.
- F. Structural planting medium shall be pH adjusted as required for planting of trees and shall be adjusted prior to delivery to the Project sites in accordance with recommendations by UMASS Soil & Plant Tissue Laboratory.
 - When pH of loam borrow is equal to or greater than 7 use aluminum sulfate to adjust pH downward to required levels.
 - When pH of loam borrow is less than 7 use either sulphur or ferrous sulfate to adjust pH downward to required levels.
 - 3. When pH of loam borrow must be raised to the required levels use limestone.

City of TREE PLANTING CONTRACT - SPECIFICATIONS Cambridge 4

CURRENT PRACTICES CHALLENGES ADDITIONAL RESEARCH BEST MANAGEMENT PRACTICES OPEN QUESTIONS / NEXT STEPS

PRACTICE | CHALLENGES

Conditions that limit health / increase mortality

Urban pressures

- Soil volume
- Utility conflicts
- Soil Compaction
- Fertility / nutrient cycling
- Gas Leaks
- Raised Fences
- Deicing Salts and Contaminants

Climate

- Moisture / drought
- Salt / pH
- Pests and Diseases



PRACTICE | BELOW GRADE - CHALLENGES

Conditions that limit health / increase mortality



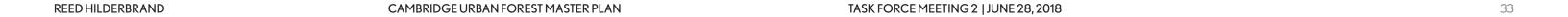
MASS AVE BETWEEN HUDSON ST AND SHEPARD ST



MASS AVE BETWEEN MARTIN ST AND HUDSON ST







PRACTICE | BELOW GRADE – CHALLENGES

Conditions that limit health / increase mortality



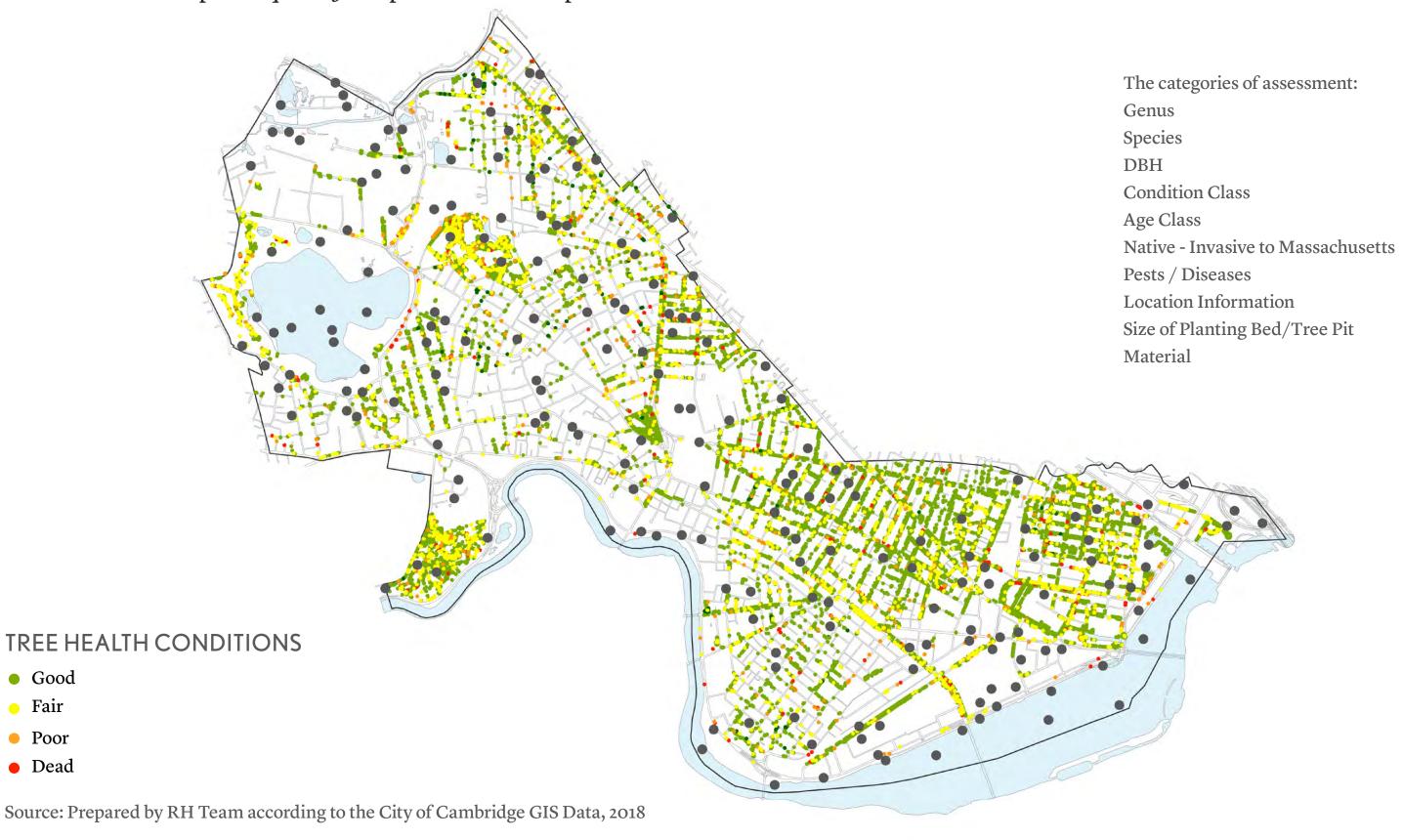


MASS AVE BETWEEN EXETER PARK AND FOREST ST

CURRENT PRACTICES CHALLENGES ADDITIONAL RESEARCH BEST MANAGEMENT PRACTICES OPEN QUESTIONS / NEXT STEPS

RSEARCH ABOVE GROUND | SURVEY OF CURRENT CONDITIONS

200 random 1 acre plots equal a 5% representative sample



RESEARCH ABOVE GROUND | SURVEY OF CURRENT CONDITIONS

Standard health metrics will be used

	Dead	Poor	Fair	Good
Tree Condition	tree is completely dead	Most of the canopy is affected with dieback undesirable leaf color, leaf size and new growth. Parts of the tree are in the process of failure.	Parts of the canopy undesirable leaf color, leaf size and new growth. Tree or parts of the tree are likely to fail.	Tree health and condition is acceptable

EXAMPLES OF TREE CONDITIONS:



CITY CURRENTLY COLLECTS

- Genus/ Species/Common Name
- Diameter (diameter at breast height, DBH)
- Tree Condition
- Neighborhood
- Created
- Creator

BARTLETT NEEDS AS REQUIRED

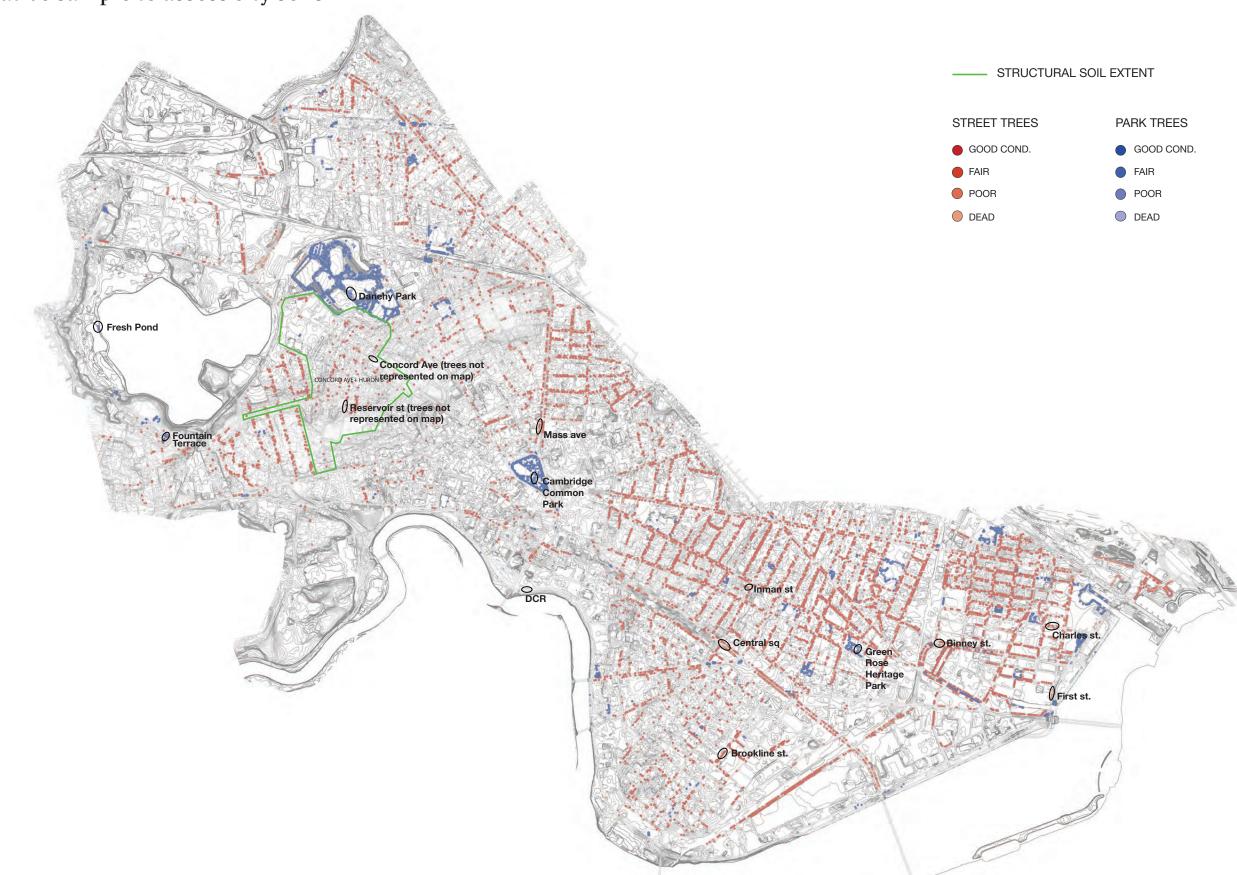
- Species Code
- Native to Massachusetts
- Invasive to Massachusetts
- Pests / Diseases

BARTLETT RECOMMENDS

- Location
- -Street Name
- Street Number
- Diameter Measurement Height
- Trunks
- —Age Class
- Canopy Radius
- Height Class
- Root Zone Infringement
- Tree Maintenance Activities and Priorities
- Tree Risk Assessment
- Tree Defects / Concerns
- Modified Date
- Planting Date
- Ecosystem Services Quantification

RESEACH PRACTICE | SOIL SURVEY

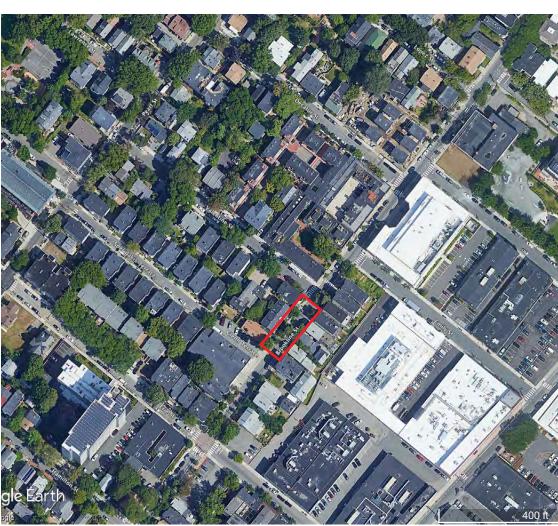
A representative sample to assess city soils



RESEACH PRACTICE | SOIL SURVEY

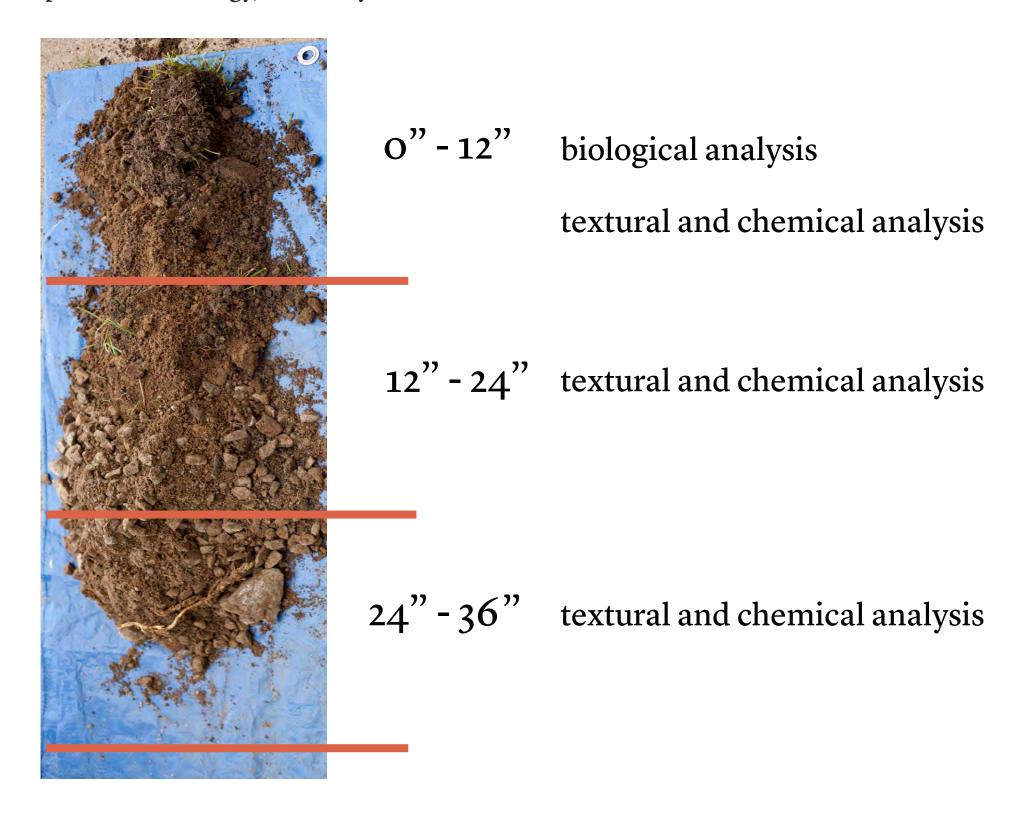
A representative sample to assess city soils





RESEARCH PRACTICE | SOIL SURVEY

A protocol that tests at three depths and for biology, chemistry and texture



CURRENT PRACTICES
CHALLENGES
ADDITIONAL RESEARCH
BEST MANAGEMENT PRACTICES
OPEN QUESTIONS / NEXT STEPS

TREE SUPPORT SYSTEMS

—are used to help support defects or certain tree conditions that could lead to failure.

ROOT DEFECTS

— proactive response to potential long-term issues

LIGHTNING PROTECTION

—a preferred path to the ground for lightning (parks, cemeteries)

PROACTIVE PEST MANAGEMENT

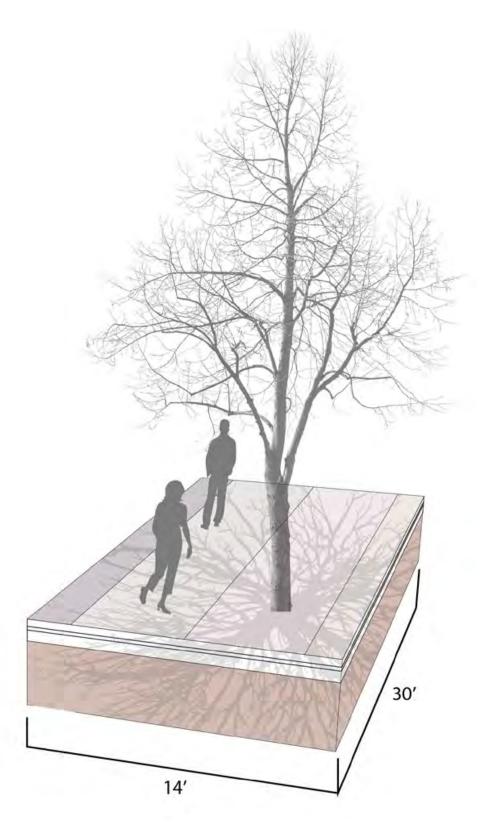
—regular monitoring including pest identification, pest population level, life stages, and techniques like regular visual inspections, using traps, phenology calendars to track life stages, monitoring key trees, etc.

RISK ASSESSMENT

—a windshield assessment for all trees once a year and after large storm events

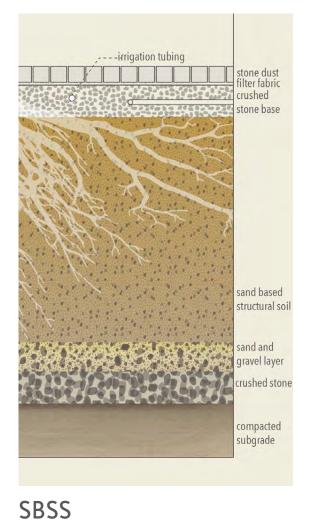
BEST PRACTICES | SOILS DETAILS

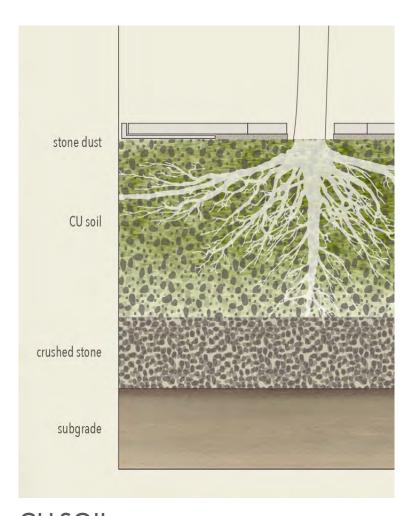
Recommended Soil Volume - 1250 cu ft per tree

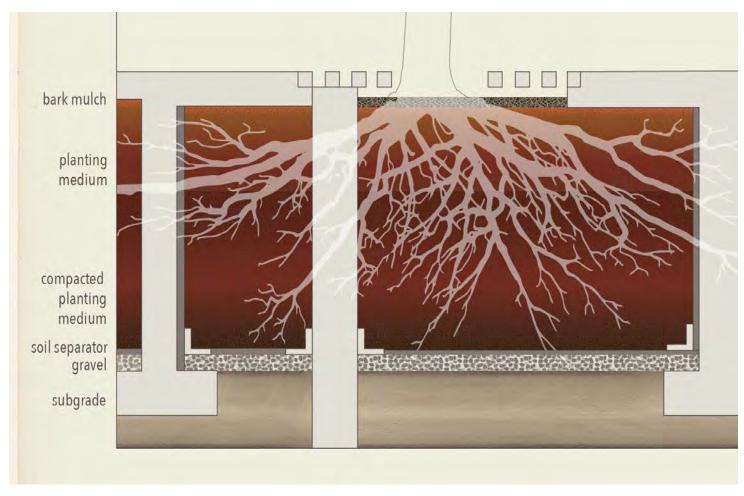


BEST PRACTICES | SOILS SPECIFICATIONS

Engineered Soils — the right system in the right place





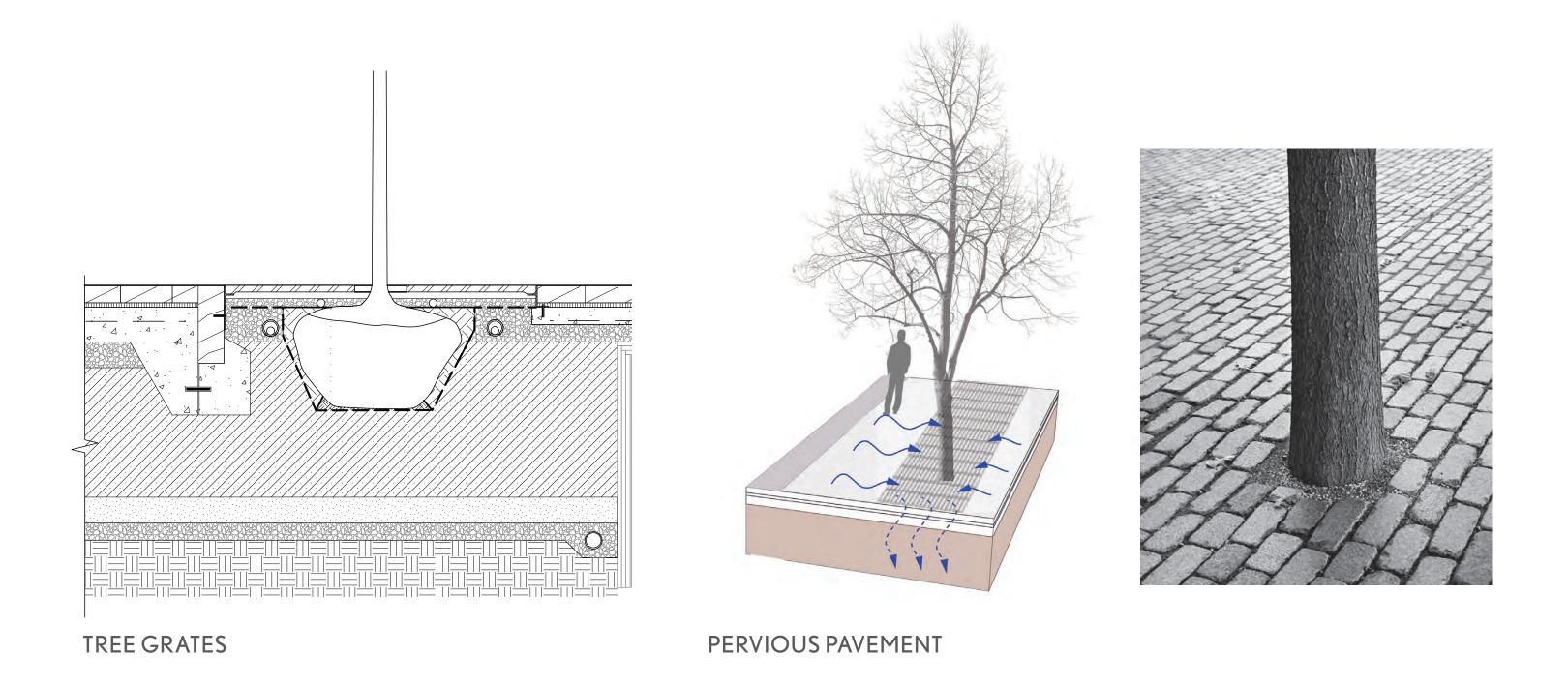


CU SOIL

SUSPENDED PAVEMENT SYSTEMS

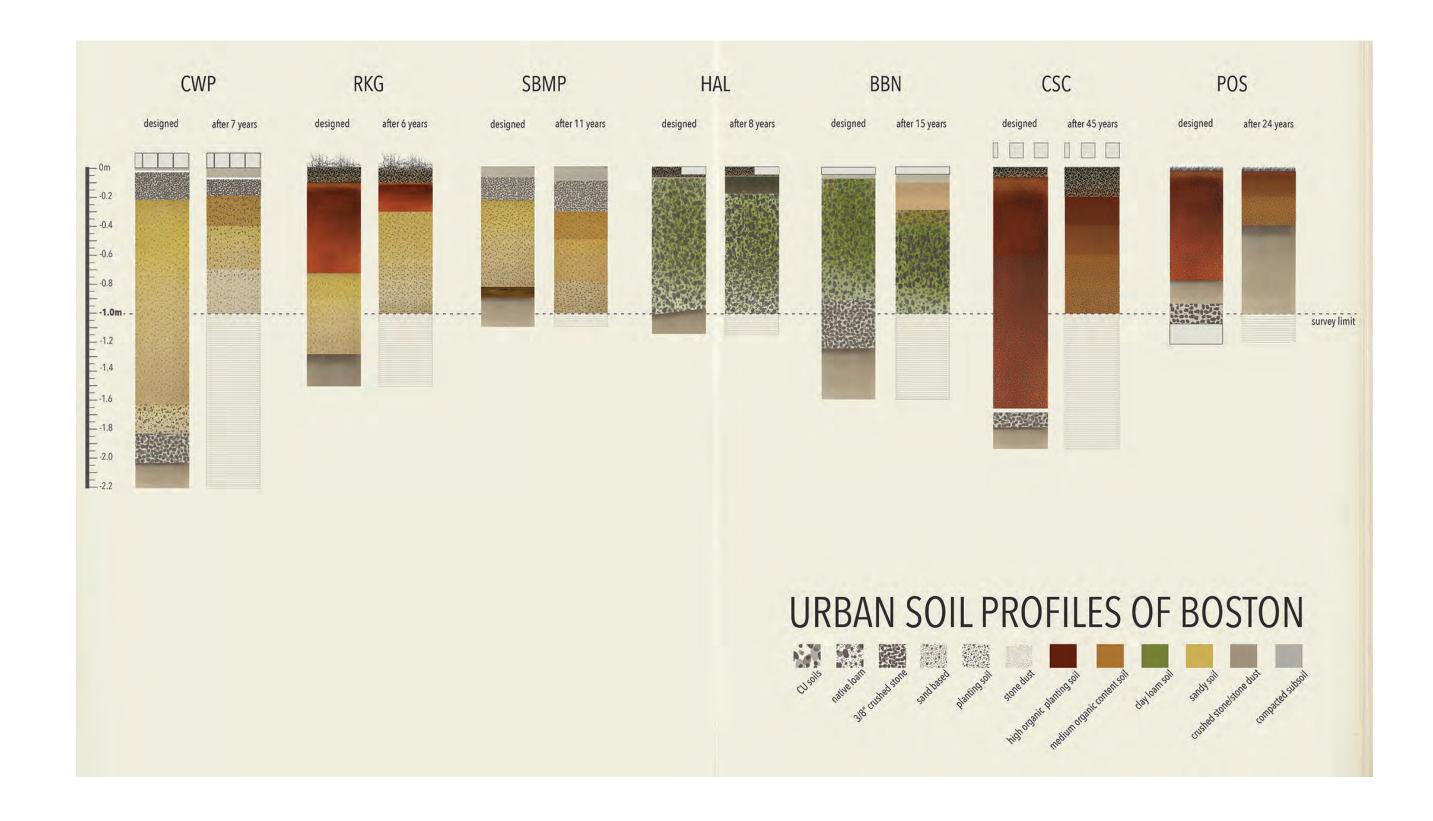
BEST PRACTICES | SOILS DETAILS

Absorptive ground plane

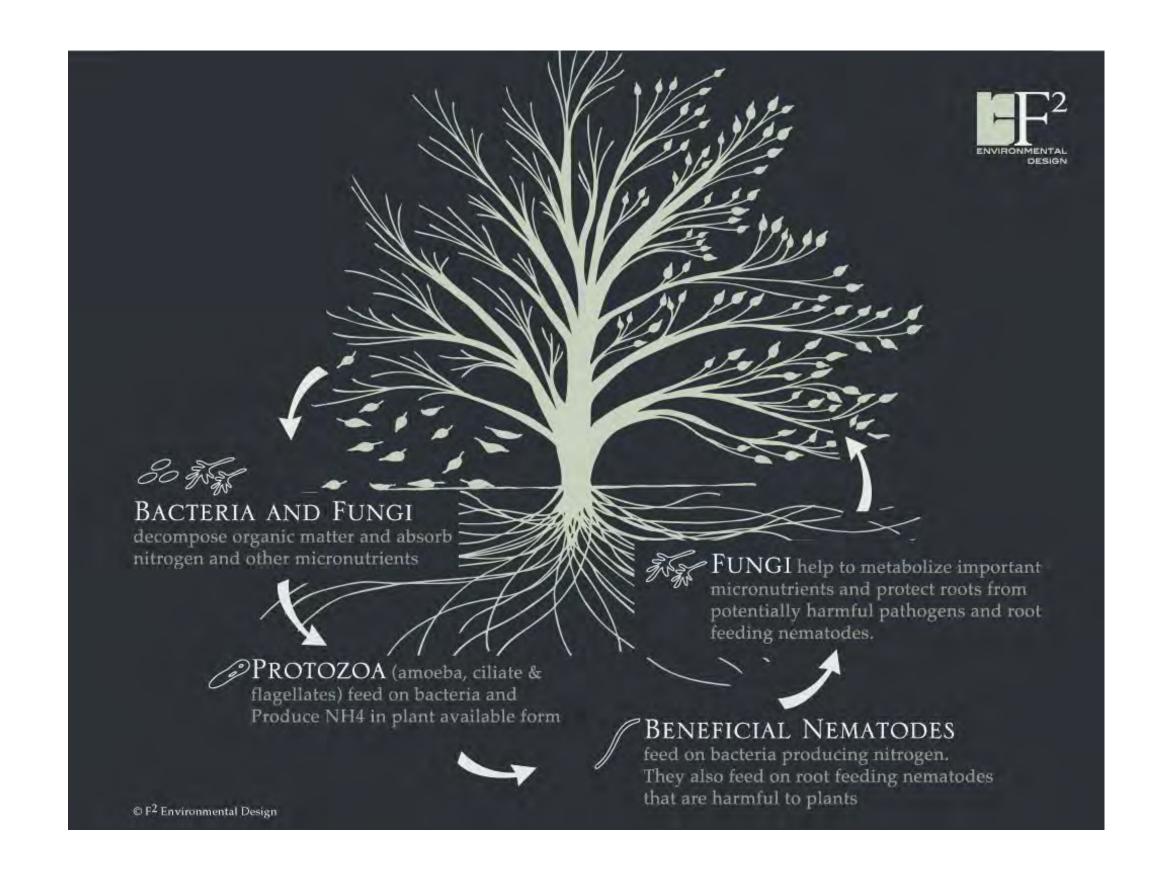


BEST PRACTICES | SOILS DETAILS

Managing moisture, compaction, and drainage



BEST PRACTICES | SOILS MANAGEMENT Nutrient cycling



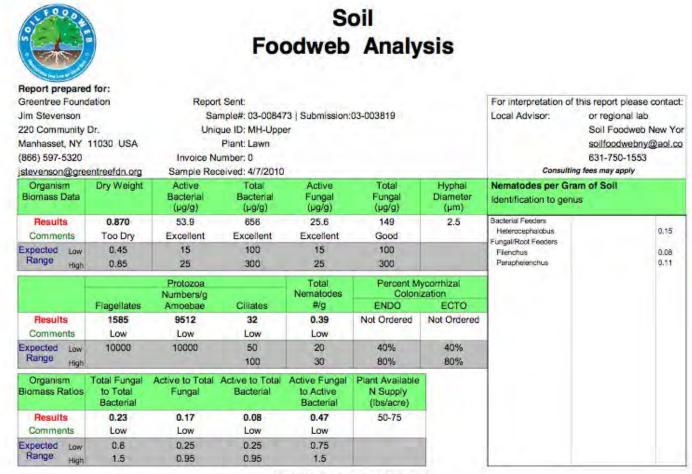
Large scale compost systems





BATTERY PARK, NYC

BEST PRACTICES | SOILS MANAGEMENT Soil Testing



1645 Washington Ave. Bohemia, NY 11716 USA 631-750-1553 | solfoodwebny@aoi.com www.solfoodweb.com

03-008473: Page 1 of 2

Compost Foodweb Analysis

Report prepared for: BPCPC Eileen Calvanese 2 South End Ave New York, NY 10280 USA (212) 267-9707

Report Sent: Sample#: 03-006485 | Submission:03-002798 Unique ID: 3 Plant:

Invoice Number: 0

calvanese@bpcparks.org		Sample Rec	elved: 3/15/200	1		
Organism Biomass Data	Dry Weight	Active Bacterial (µg/g)	Total Bacterial (µg/g)	Active Fungal (µg/g)	Total Fungal (µg/g)	Hyphal Diameter (µm)
Results Comments	0.340 Too Wet	105 Excellent	1413 Good	148 Excellent	1204 Excellent	2.25
xpected Low	0.45	15	100	15	100	

	Protozoa Numbers/g			Total Nematodes	Percent Mycorrhizal Colonization	
	Flagellates	Amoebae	Ciliates	#/g	ENDO	ECTO
Results	133696	167007	0	12.6	Not Ordered	Not Ordered
Comments	High	High	Low	Low	1	
Expected Low	10000	10000	50	20		
Range High			100	30		

Range	High			100	30	
Organism Biomass Ratios		Total Fungal Active to Total to Total Fungal Bacterial		Active to Total Bacterial	Active Fungal to Active Bacterial	Plant Available N Supply (lbs/acre)
Results	1	0.85	0.12	0.07	1,41	300+
Commen	ts	Good	High	Good	Good	
Expected	Low	0.75	0.01	0.01	0.75	
Range	High	1.5	0.1	0.1	1.5	

555-7 Hallock Ave Port Jefferson Station, NY 11776 USA (631) 474-8848 | solfcodwebny@aol.com www.salfoodweb.com

For interpretation of this report please contact:

Consulting fees may apply

Nematodes per Gram of Soll

Identification to genus

or regional lab

(631) 474-8848

Soil Foodweb, Inc.

soilfoodwebny@aol.co

4.25

Local Advisor:

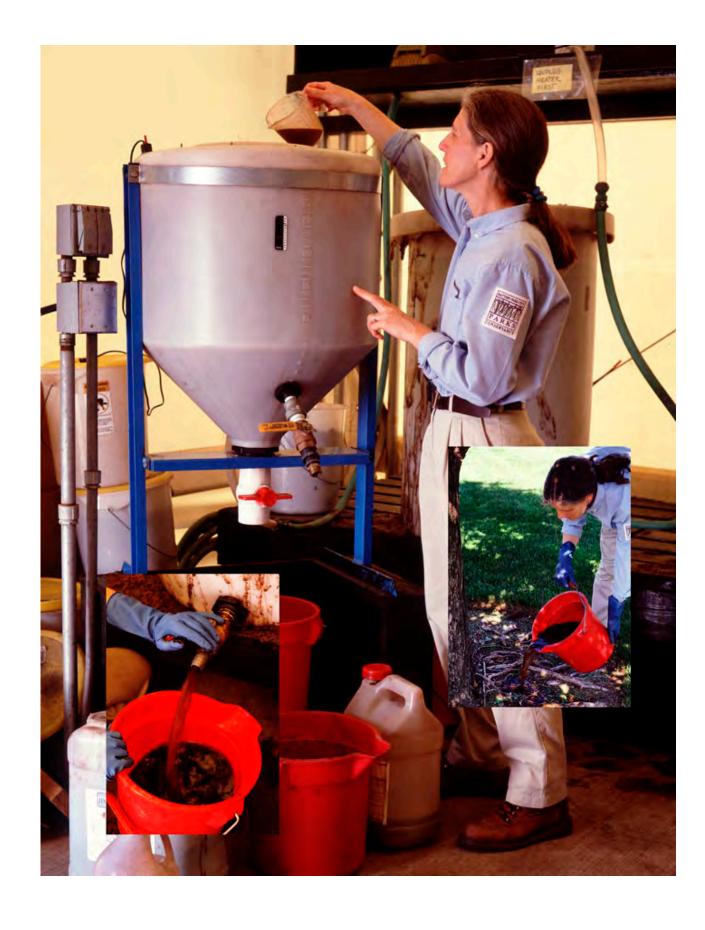
Bacterial Feeders

Rhabdris

03-006485; Page 1 of 2

REED HILDERBRAND CAMBRIDGE URBAN FOREST MASTER PLAN TASK FORCE MEETING 2 | JUNE 28, 2018 50

Soil Amendments - compost tea, biochar, humate, etc.







HARVARD YARD

Management for inundation



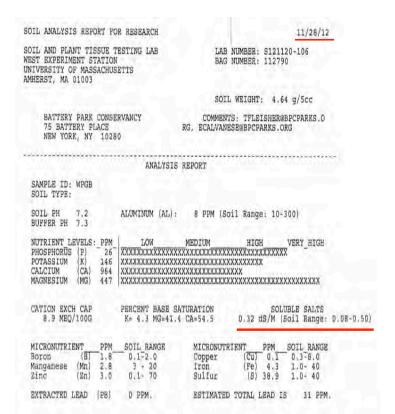




BATTERY PARK, NYC

Management for inundation

SOIL ANALYSIS REPORT FO	R RESEARCH	11/14/12
SOIL AND PLANT TISSUE T WEST EXPERIMENT STATION UNIVERSITY OF MASSACHUS AMHERST, MA 01003		LAB NUMBER: \$121106-125 BAG NUMBER: 112567
		SOIL WEIGHT: 4.95 g/5cc
BATTERY PARK CONSE 75 BATTERY PLACE NEW YORK, NY 1028	1,102,122	COMMENTS: TFLEISHER@BPCPARKS.Q RG, ECALVANESE@BPCPARKS.ORG
	ANALYSIS	REPORT
SAMPLE ID: WPSG SOIL TYPE:		
SOIL PH 6.4 BUFFER PH 6.9	ALUMINUM (AL): ORGANIC MATTER:	8 PPM (Soil Range: 10-300) 5.7 %. Desirable range 4-8%.
NUTRIENT LEVELS: PPM PHOSPHORŪS (P) 22 POTASSIUM (K) 139 CALCIUM (CA) 1047 MAGNESIUM (MG) 450	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MEDIUM HIGH VERY_RIGH XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CATION EXCH CAP 11.2 MEQ/100G	PERCENT BASE SA K= 3.2 MG=33.2	TURATION SOLUBLE SALTS CA=47.1 3.71 dS/M (Soil Range: 0.08-0.50)
MICRONUTRIENT PPM Boron (B) 1,1 Manganese (Mn) 2.0 Zinc (Zn) 3.1	0.1-2.0 3 - 20	MICRONUTRIENT PPM SOIL RANGE Copper (Cu) 0.3 0.3-8.0 Iron (Fe) 2.9 1.0-40 Sulfur (S) 80.9 1.0-40
EXTRACTED LEAD (PB)	O PPM.	ESTIMATED TOTAL LEAD IS 29 PPM.





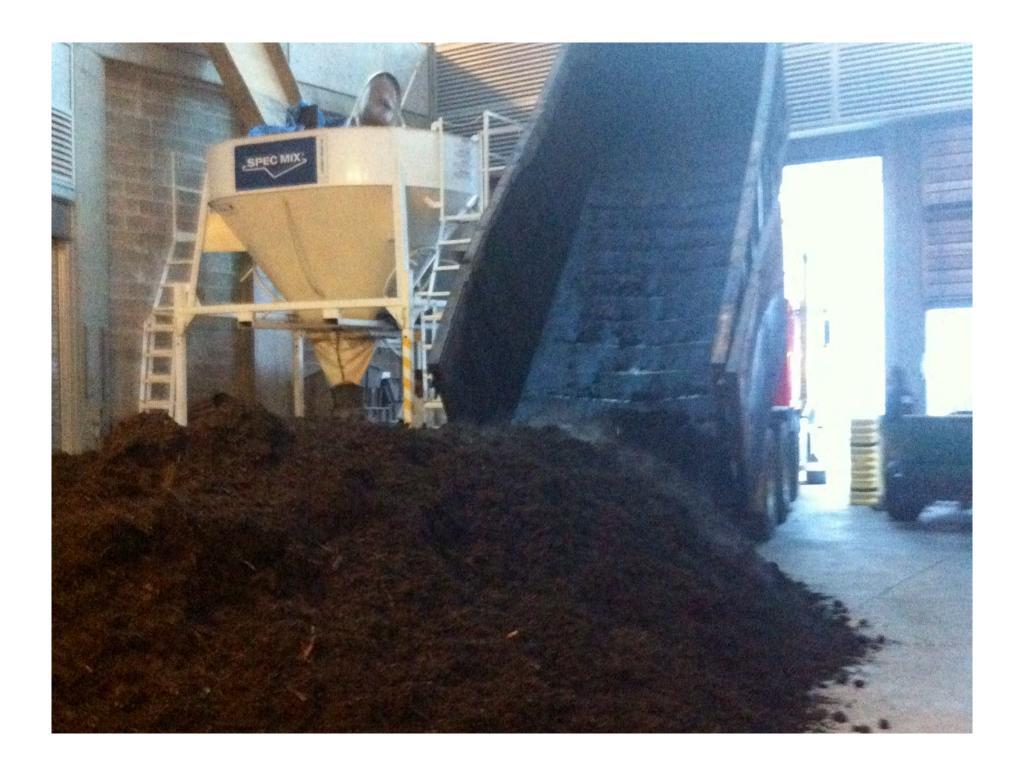
Growth medium





BROOKLYN BRIDGE PARK

Remediation for winter salt



CURRENT PRACTICES CHALLENGES ADDITIONAL RESEARCH BEST MANAGEMENT PRACTICES OPEN QUESTIONS

TREE DATABASE (Cartegraph)

- Analytics: evaluation of existing or best practices, performance over time, comparative analysis
- Feedback system for residents/ Proactive participation

FORMALIZE PRACTICES

- In house procedures
- Contracted work

OPEN QUESTIONS

BEFORE PLANTING

- Where should we plant trees? Are the conditions right? Are there alternative vegetative strategies?
- How can we manage barriers to planting? conflict with solar access, views, etc.
- When should we be replanting, is it worth planting in tree pits or wait until sidewalk repair?
- How can we align tree selection and conditions?

DURING PLANTING

— What conditions, elements, and soil system (currently one SBSS spec) influence success?

AFTER PLANTING

- How are trees managed for establishment?
- How are trees and soils protected and nurtured over time?
- How can we respond to changing conditions (pest outbreak/drought)?
- How can we share responsibility for the urban forest?
- How can we use technology to monitor and respond pro-actively?

DISCUSSION/QUESTIONS

ADVOCACY / REGULATIONS

Deanna Moran

Conservation Law Foundation

M.G.L. Chapter 87: Shade Trees

- Applies to trees within the public right of way or within 20 feet
 of the public right of way with Tree Warden and Owner's consent
- Establishes powers for tree wardens
- Removal of healthy public shade trees requires advertised public hearing
- Trees that pose immediate hazards do not require a hearing to be removed



City Tree Removal Policy

City Tree Protection Ordinance

- Tree Replacement Fund
- Enforcement

City Zoning Articles 5 & 19

- Tree Study
- Tree Protection Plan

City Zoning Article 20 (Overlay Districts)

- Parkway Overlay
- Prospect Street Overlay



https://www.urbanforestprofessionals.com/wp-content/uploads/UrbanForestPro-68.jpg

Committee on Public Planting

— Advises City Council, City Manager, Public Works Commissioner, and other department heads on public planting issues

Tree Ambassador/Water by bike

- Paid summer position inspect, weed, and water young street trees via bicycle and cargo trailer

Planting Requests

- If a tree was removed from an existing well and you would like a replacement there is no expense to you
- If you'd like to have a tree planted where no tree well currently exists, the City will inspect the area and determine if it is suitable

Back of Sidewalk Program

— If a tree cannot be planted within the public right of way, the City will plant trees along the back of the sidewalk (up to 20 feet from the public way) on private property of interested, eligible owners



Adopt-a-Tree Program

 Residents commit to water and tending a tree near a specific address (home, school, business, etc.)

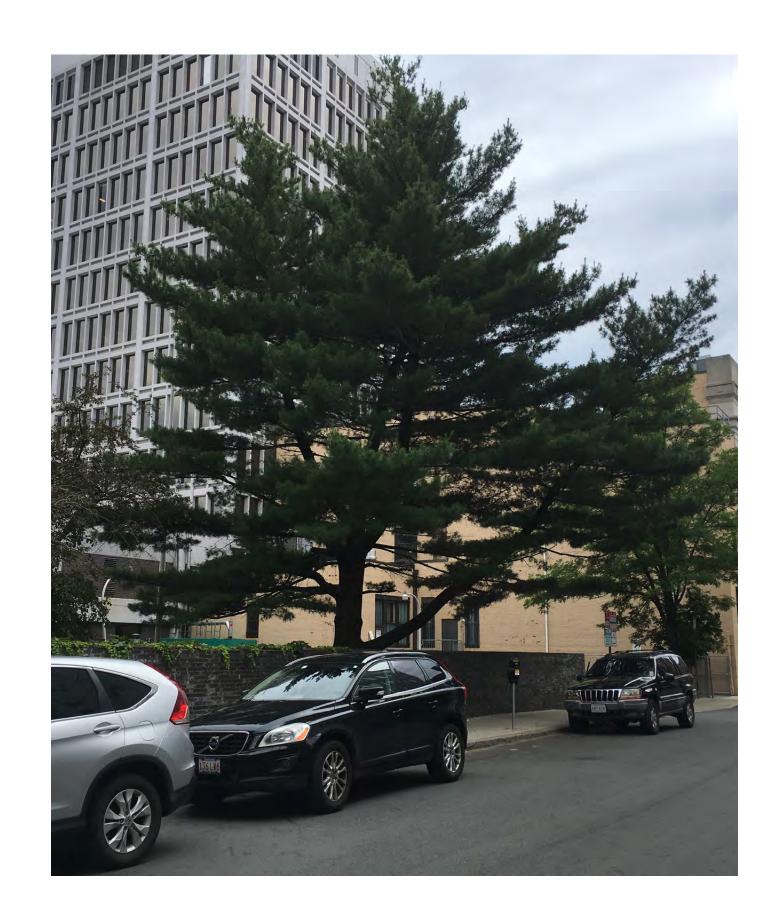
Commemorative Tree Program

— For cost of \$200 you can receive purchase a tree in remembrance of a loved one or important event



CHALLENGES AND OPPORTUNITIES

- Evaluting barriers to buy-in/participation developers
 small property owners
 large private land-owners
 quasi-public and state property owners
- Assessing formal vs. informal policies
- Relationship with the state
- Cross-departmental city coordination



SURVEY OF ATTITUDES

Feasibility Survey/Study

- Why are things working or not working
- Insights about what will be well-suited for Cambridge
- Narrowing the world of possibilities not supporting a particular policy or proposal



https://nexusofchange.wordpress.com/2012/04/08/occupy-atlanta-surveys-public-opinion-for-better-society/

BEST PRACTICES

Seattle, WA

- Tree protection code
- Green Factor

Atlanta, GA

Robust tree ordinance

Nashville, TN

— Protected trees and tree removal permits

Arlington, VA

— Subsidized plantings on private property

Dallas, TX

Flexibility of Tree Fund



UFAC Toolkit

UFAC has prepared a <u>Toolkit</u> to assist neighborhood associations and groups interested in organizing tree planting events that qualify for free trees that may be provided through the City of Dallas MOWmentum and for the Reforestation Fund. Trees from these programs are targeted for planting in City of Dallas street medians and in the "parkway", which in most neighborhoods is the strip of grassy area between the sidewalk and the street.

TOOLKIT

In the <u>Toolkit</u> Table 3.1 List of Sample Forms, Letters, and Checklist consists of examples of Forms/Letters/Checklist to assist Neighborhoods to organize a tree planting project, identify volunteers and supporters, obtain and plant trees, and follow-up after the tree-planting event. These sample documents are go-by's and can to altered for your specific Neighborhood Tree Planting Project needs. Below are links to editable versions of the examples shown in the <u>Toolkit</u> that you can download and modify.

Coming Events

- June 19, 2018
- UFAC Meeting at 6:00 pm

UFAC on Facebook



Helpful Links

- 1. Dallas City Arborist
- 2. TAMU Tree Guide
- 3. UFAC Tree Guide
- 4. MOWmentum Program
- 5. UFAC Bulletin
- 6. UFAC BOLETIN INFORMATIVO
- Planting & caring for trees in your yard
- Plantación y cuidado de los árboles de su jardín
- 9. Alliance for Community Trees
- 10. Turtle Creek Park Study
- 11. Texas Forest Service

DISCUSSION/QUESTIONS

PUBLIC COMMENT

TASK FORCE MEETING SCHEDULE

JUNE 12	Introduction	NOVEMBER 29	PROPOSAL DEVELOPMENT:TBD
JUNE 28	RESEARCH: Regulatory and Management Review	DECEMBER 20	PROPOSAL DEVELOPMENT:TBD
JULY 26	RESEARCH: Initial Data Analysis	JANUARY 31	PROPOSAL DEVELOPMENT:TBD
AUGUST 30	TESTING: Process and Key Questions	FEBRUARY 28	DRAFT DOCUMENTATION: TBD
SEPTEMBER 27	TESTING: Baseline	MARCH 28	DRAFT DOCUMENTATION: TBD
OCTOBER 25	TESTING: Findings	APRIL 25	DRAFT DOCUMENTATION: TBD

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