

# PRINCIPLES PLANNING APPROACH DESIGN CONCEPTS PRACTICES

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#### **ENVISION VALUES**

#### **Vision and Core Values**

The Envision Cambridge team worked with the community through workshops, one-on-one discussion, surveys, and more to craft a vision statement for the city.

Following extensive community outreach, the plan identified six core values expressed by the Cambridge community that shape the plan's goals and recommendations. The vision and core values together form the foundation upon which the plan's recommendations for the evolution of Cambridge are built.

#### Vision

"Cambridge is a forward-thinking, welcoming, and diverse city. We enjoy a high quality of life and thrive in a sustainable, inclusive, and connected community."

#### **Core Values**



#### Livability

We value a vibrant built and natural environment and support sustainable transportation with affordable and convenient access to daily needs and recreational resources.



#### **Diversity and Equity**

We are a welcoming community that celebrates our diversity and ensures access to affordable housing choices and opportunities to succeed.



#### **Economic Opportunity**

We provide opportunity and stability through access to quality jobs, workforce development and training, and livable wages that support economic security for residents.



#### Sustainability and Resilience

We take responsible action to reduce our impact on the environment and build a resilient city and strong community.



#### Community Health and Wellbeing

We promote healthy and active lifestyles in a supportive, safe community with diverse opportunities to connect with our neighbors and nature and to engage in civic life.



#### Learning

We embrace lifelong learning and celebrate art and creativity in our culturally rich community.

## Core Concepts

To maintain, plan, build, and sustain a healthy, connective urban forest at a time when the urban forest is more important than ever before. 1

Value the forest as a public resource

2

Invest in canopy in the public realm

3

Share responsibility for a healthy forest

### Value the forest as a public resource

The urban forest is a public resource and has MEASURABLE VALUE AND IMPACTS

EVERYONE. It provides shade to cool our environment, gives scale and character to our streets, provides habitat for diverse species, improves our air quality, reduces stormwater impacts, and improves our health and well-being.

To shift the trend from increasing loss to sustainable growth, we must manage the urban forest as **URBAN INFRASTRUCTURE** (like water, sewer, power) investing for the long term, managing resources collectively, and understanding the value (i.e., ecosystem services) of the canopy.

To balance the value of the forest with the complex needs of the city, we should focus on the performance of the FOREST AS A SYSTEM over the specific value of individual trees.

### Invest in canopy in the public realm

The urban forest is felt most strongly in our public realm and common spaces (sidewalks, parks, schoolyards, and commercial and institutional campuses).

Enhancing the canopy within the public realm, where the impact of loss is felt most strongly and the significance of gain is most equitably distributed, deserves our primary attention and investment.

#### SPECIFICALLY PRIORITIZE →

#### **Canopy corridor**

A resilient, connected ecosystem that enhances shading and cooling along networks and connects green spaces across the City, which relies on thriving trees within the public right of way, publicly accessible spaces, and front yards and private lands that front on the public realm.

### Areas of canopy deficit and inequity

A more evenly distributed forest increases equity in the distribution of canopy cover, reduces disproportionate impacts from urban heat island effects, and increases the well-being of vulnerable populations.

### Share responsibility for a healthy forest

A thriving urban forest requires the MUTUAL CARE OF MANY PARTIES, including city government, homeowners, businesses, developers, local organizations, institutions and state agencies.

Policy should be BALANCED AND FAIR, linking the interests of all parties around smart solutions that encourage tree preservation, planting of new trees, and effective maintenance.

The city should support **EDUCATION**efforts as a catalyst for **PARTNERSHIPS**between interest groups to encourage stewardship of the urban forest.

#### Enact values through a multi-pronged approach

#### **Curb loss**

- Enhance management practices, especially around soil health, that improve tree vitality and longevity
- Protect exceptional trees of unique age and size
- Increase the cost of removals for large projects (de-incentivize removal and increase mitigation when retention is not possible)
- Enhance the city permitting and review process to track and seek alternatives to tree removals
- Educate residents on the value of their canopy as an important ecological/health resource for themselves and their community

#### **Grow canopy**

- Increase rate of planting within the public realm
- Enhance soil specifications and planting details to improve establishment and long-term success
- Develop alternative approaches to public realm design that increase opportunities, expand plantable areas, and enhance viability
- Provide resources for planting and maintenance to private landowners, especially in front yards
- Educate the public about the resources that are available and increase trust within the community
- Partner with local institutions and landowners to make commitments, set internal targets, and support community-wide goals
- Implement comprehensive zoning guidelines that represent the value of trees
- Modify recommended species and diversify forest to respond to a changing climate and increased risks of pests and diseases

## Encourage alternative approaches that advance the goals of the Urban Forest Master Plan

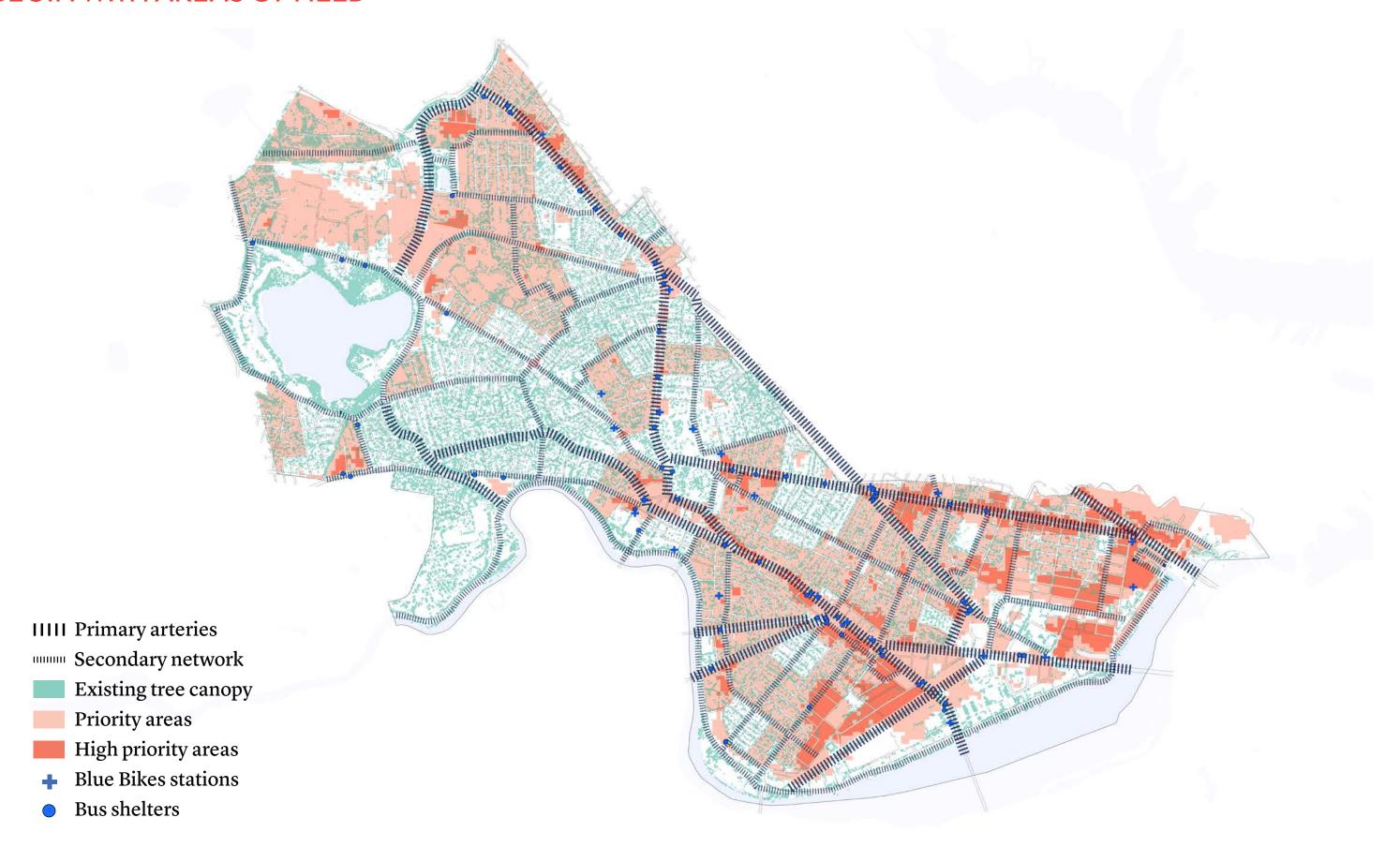
- De-pave and enhance permeability
- Implement green roofs and living structures
- Encourage alternative shade structures where trees are not viable

# PRINCIPLES PLANNING APPROACH DESIGN CONCEPTS PRACTICES

#### WHERE TO APPLY THE STRATEGIES?

AIEGII	LJ:	STRATEGIES																
			Policy			Planning/Design					Practices				Outreach/Other			
		Enhance Current Tree Protection Ordinance	Formalize City Practices	Clarify Planning and Zoning	Leverage Envision Cambridge and CCPR planning studies	Restrict Street Tree Planting to Only Suitable Areas	Create New Typologies for Street Tree Planting	Implement City-Wide Planting Plan to Focus Efforts	Site New Parks/Open Spaces Strategically	Improve City Planting Practices	Improve City Maintenance and Care Practices	Implement Soils Management Program	Monitor Tree Canopy and Adapt	Invest in Educational Programs	Build Community Partnerships	Seek Alternative Green Strategies		
ACTION	in response to	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Curb loss	Mature canopy decline	•													•			
	Land conversion	•		•	•							•			•			
	Residential removals	•		•										•	•			
	Poor tree condition	•	•	•		•				•	•	•		•	•			
	Narrow sidewalks			•		•										•		
	Inadequate soil volume			•		•				•		•						
	Understanding the value of trees													•	•			
Grow canopy	Equity in distribution of canopy cover	•	•	•	•		•	•	•	•	•	•	•	•	•			
	Shading and cooling / pedestrian thermal comfort	•	•	•	•		•	•	•	•	•	•	•		•			
	Environmental quality / wellbeing and public health	•	•	•	•		•	•	•	•	•	•	•		•	•		
	Ecological connectivity	•		•	•		•	•	•	•	•	•	•			•		
	Diversity of forest composition						•	•		•			•					
	Disaster response preparedness				•			•		•			•	•	•	•		

#### **BEGIN WITH AREAS OF NEED**



#### PRIORITY AREA CRITERIA



#### ENVIRONMENTALLY VULNERABLE POPULATIONS

Minority populationLow income populationNon English speaking population

#### **HEAT ISLAND HOT SPOTS**

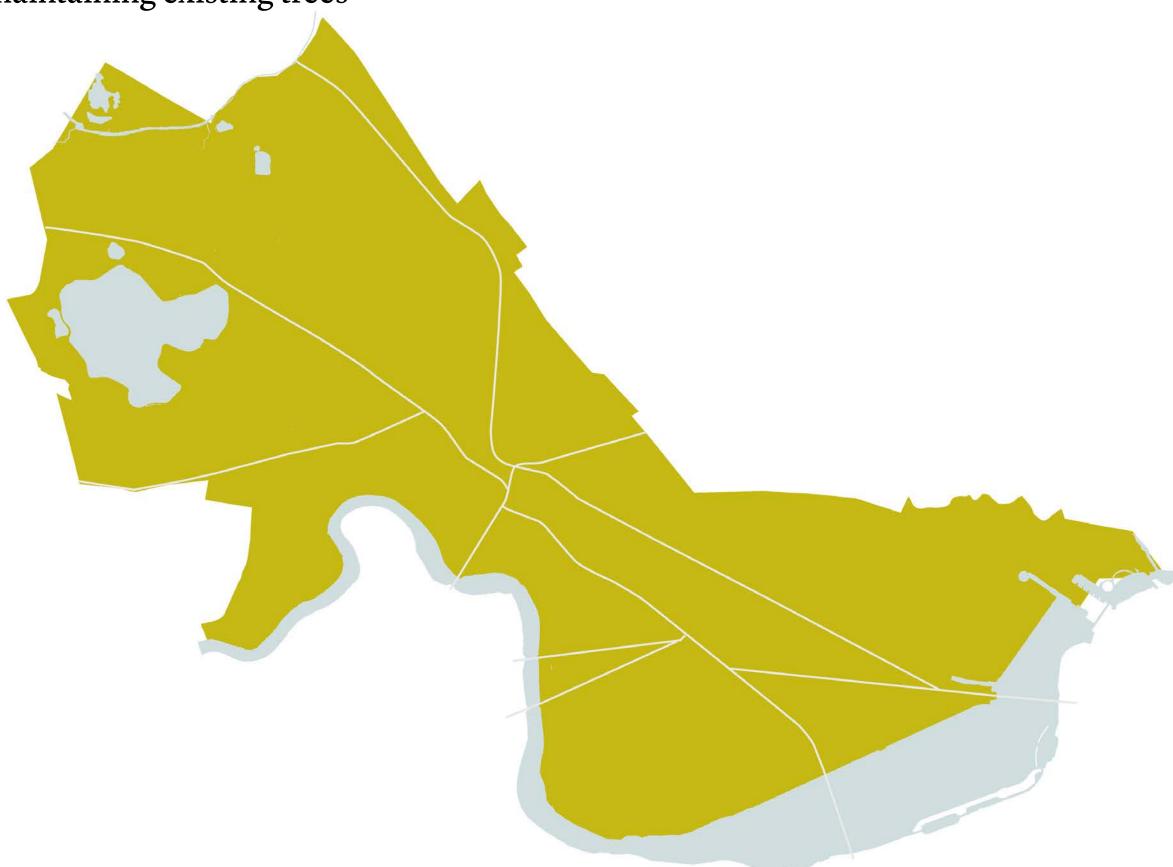
Greater than 92 degrees
on a 90 degree day
as modeled by KLF for 2030
ambient air temperature

#### **COMMUNITY INFRASTRUCTURE**

Public Schools and Hospitals

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PLANNING APPROACH
Curb loss by maintaining existing trees



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#### PLANNING APPROACH

Grow canopy by planting trees in areas of canopy deficit

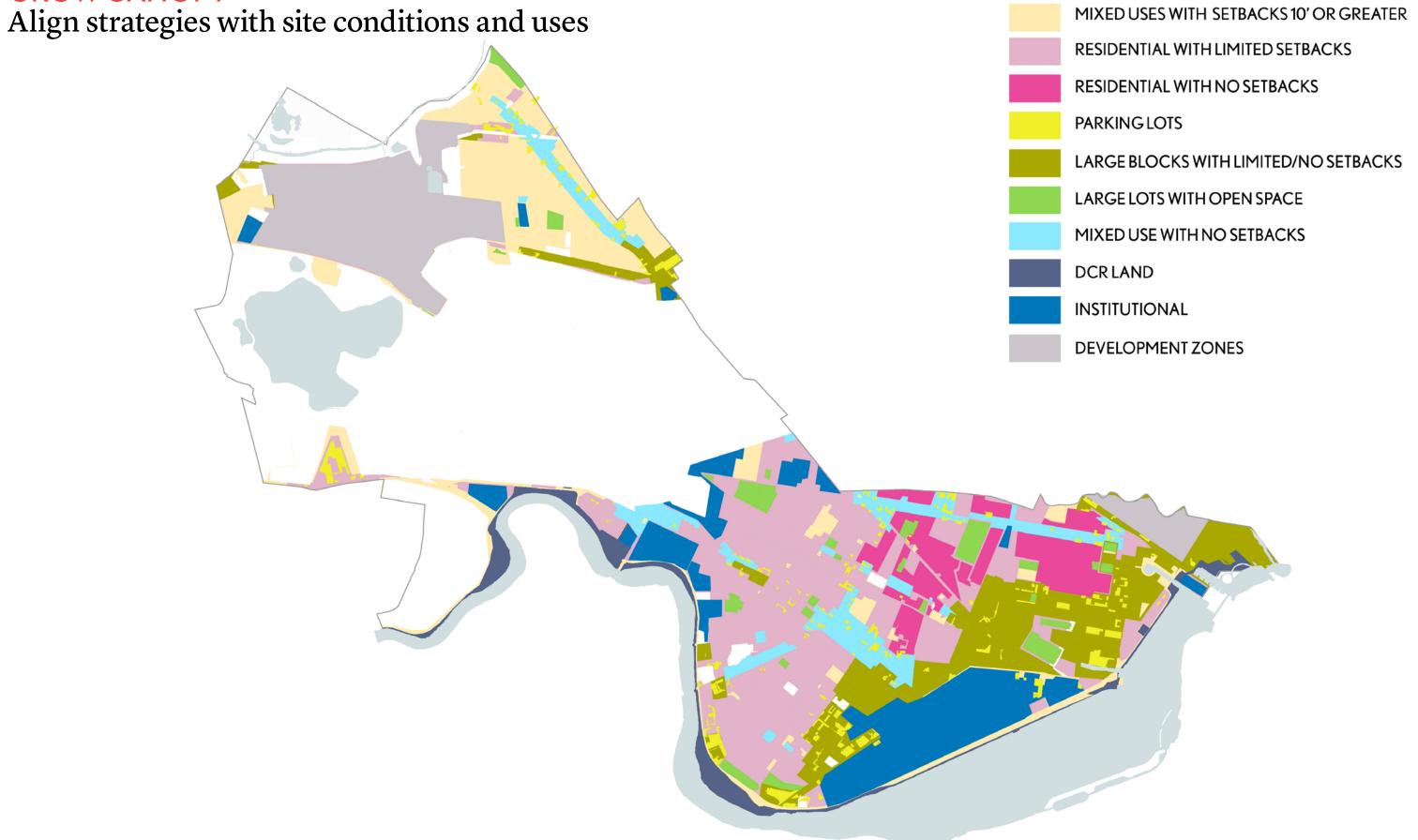


#### PLANNING APPROACH

Focus on creating robust canopy corridors



#### **GROW CANOPY**



#### MIXED USE WITH SETBACKS GREATER THAN 10'



#### RESIDENTIAL WITH LIMITED SETBACKS



#### RESIDENTIAL WITH NO SETBACKS



#### LARGE BLOCKS WITH LIMITED OR NO SETBACKS



#### MIXED USE WITH NO SETBACKS



#### LARGE LOTS WITH OPEN SPACE



#### **INSTITUTIONAL**



#### **DEVELOPMENT ZONES**

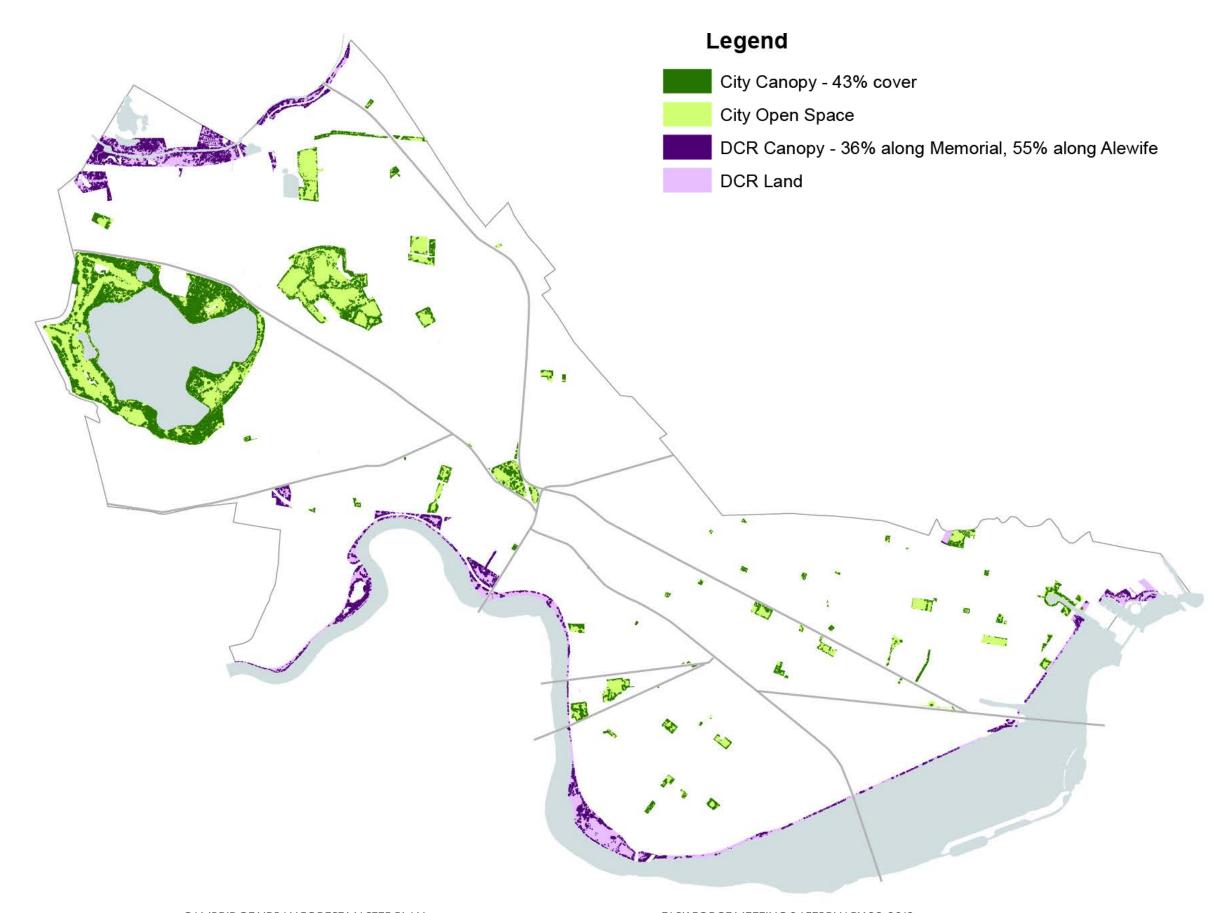


#### **DCR LAND**



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#### **OPEN SPACE**



#### PRIORITIZE STRATEGIES BY CONDITION

		STRATEGIES														
		Policy	У		Planı	ning/I	esign			Prac	tices		Outreach/Other			
		Enhance Current Tree Protection Ordinance	Formalize City Practices	Clarify Planning and Zoning	Leverage Envision Cambridge and CCPR planning studies	Restrict Street Tree Planting to Only Suitable Areas	Create New Typologies for Street Tree Planting	Implement City-Wide Planting Plan to Focus Efforts	Site New Parks/Open Spaces Strategically	Improve City Planting Practices	Improve City Maintenance and Care Practices	Implement Soils Management Program	Monitor Tree Canopy and Adapt	Invest in Educational Programs	Build Community Partnerships	Seek Alternative Green Strategies
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	Residential removals	•		•										•	•	
	Poor tree condition	•	•	•		•				•	•	•		•	•	
	Narrow sidewalks			•		•										•
	Inadequate soil volume			•		•				•		•				
	Understanding the value of trees													•	•	
Grow canopy	Equity in distribution of canopy cover	•	•	•	•		•	•	•	•	•	•	•	•	•	
	Shading and cooling / pedestrian thermal comfort	•	•	•	•		•	•	•	•	•	•	•		•	
	Environmental quality / wellbeing and public health	•	•	•	•		•	•	•	•	•	•	•		•	•
	Ecological connectivity	•		•	•		•	•	•	•	•	•	•			•
	Diversity of forest composition						•	•		•			•			
	Disaster response preparedness				•			•		•			•	•	•	•

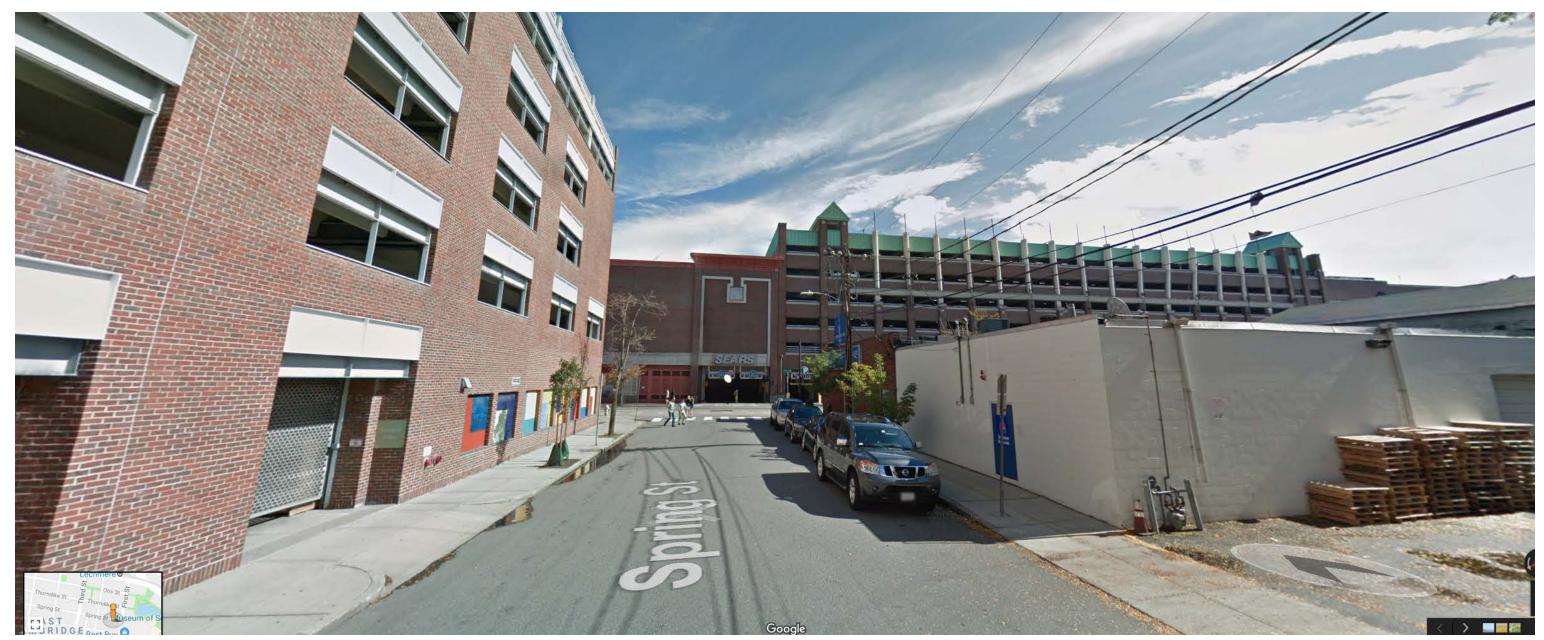
# PRINCIPLES PLANNING APPROACH DESIGN CONCEPTS PRACTICES

#### **BUILD ROBUST CANOPY CORRIDORS**



#### TREES IN THE RIGHT OF WAY

#### Existing street trees often have limited resources

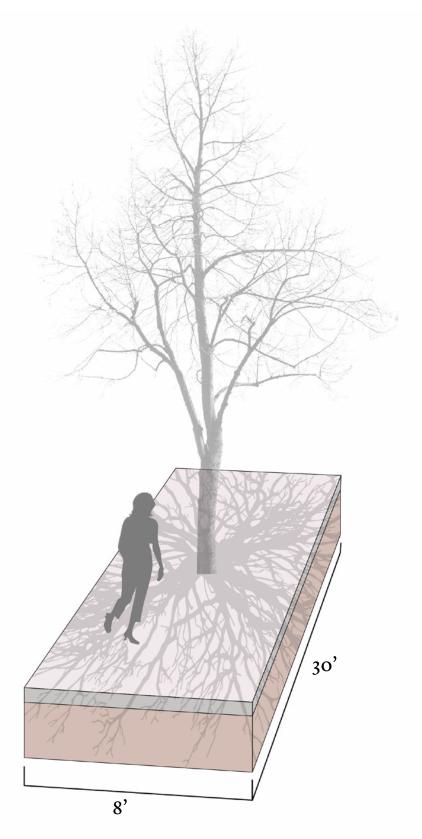


EAST CAMBRIDGE

Image from Google Street View

CONDITIONS THAT SUPPORT A THRIVING FOREST Adequate soil volume

Soil volume: 750 cu ft

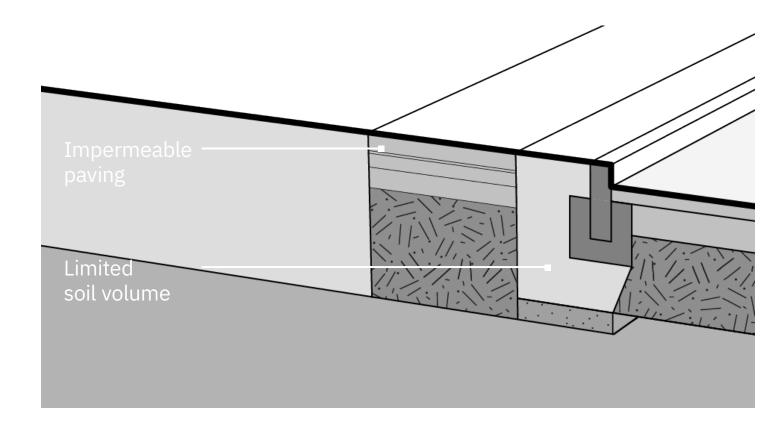


Soil volume: 750 cu ft

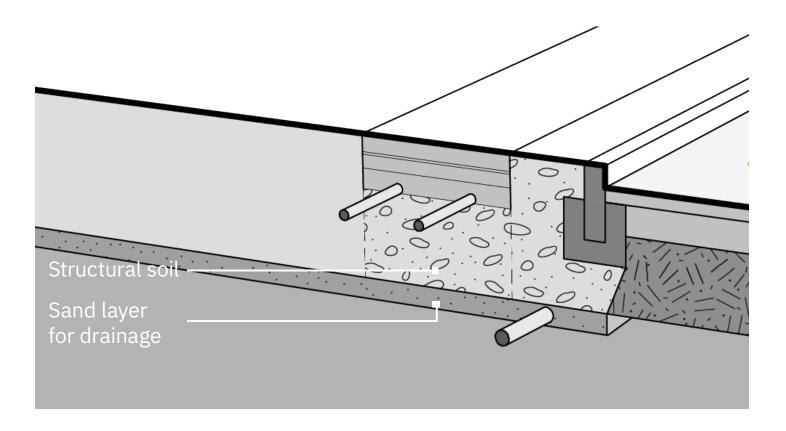
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#### CONDITIONS THAT SUPPORT A THRIVING FOREST

#### Adequate soil volume



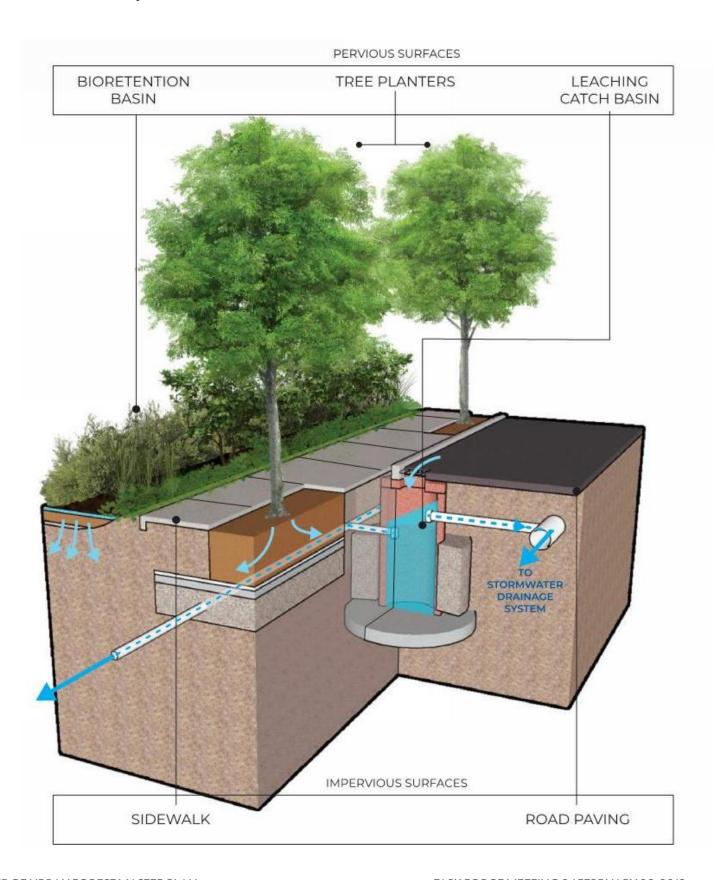
**EXISTING STREET TREE SOIL CONDITION** 



STRUCTURAL SOIL SECTION

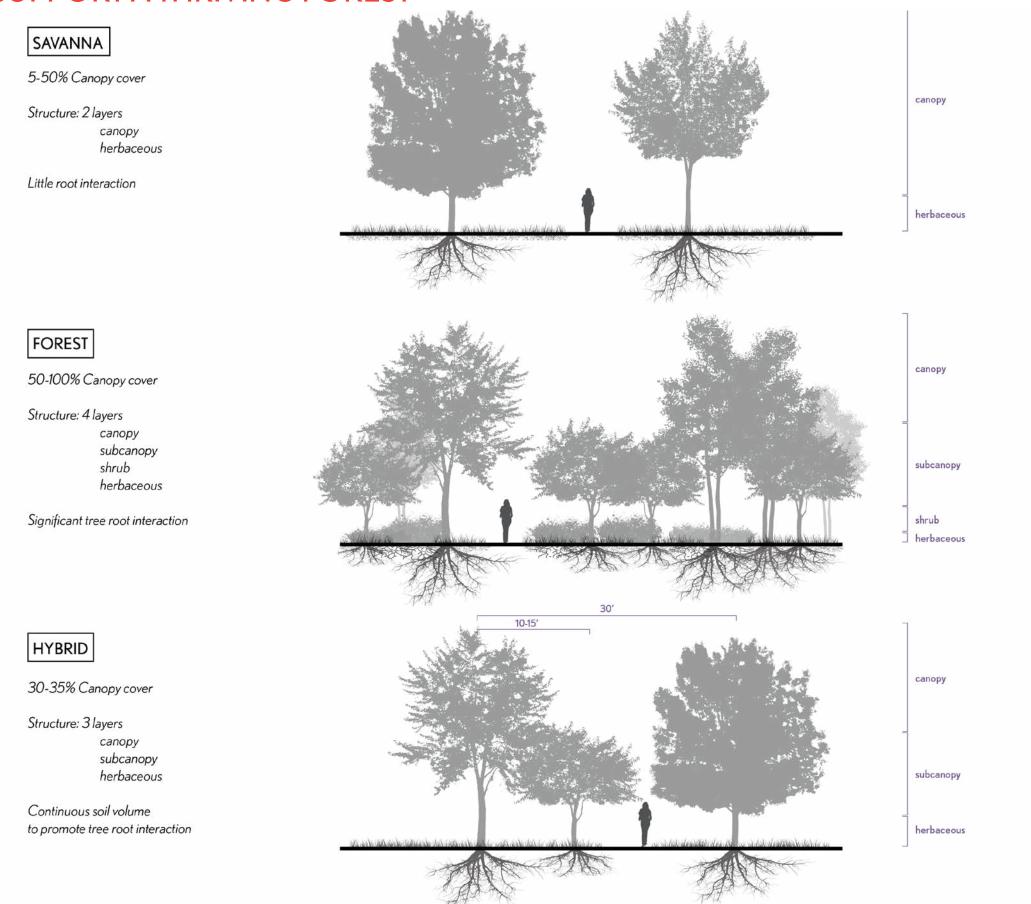
#### CONDITIONS THAT SUPPORT A THRIVING FOREST

#### Tree plantings as part of stormwater system



#### CONDITIONS THAT SUPPORT A THRIVING FOREST

#### Plant communities

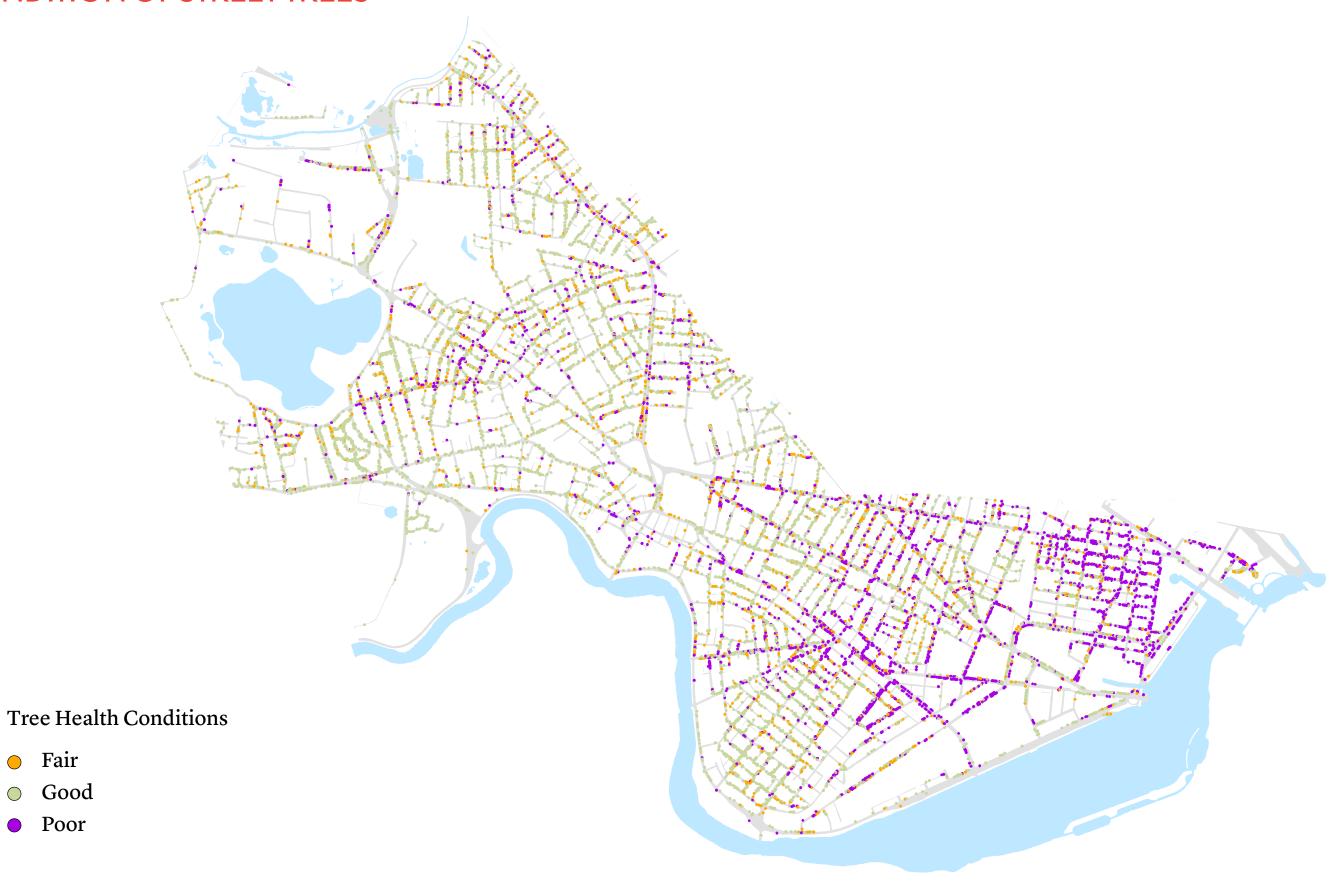


#### CONDITION OF STREET TREES

Fair

Good

Poor



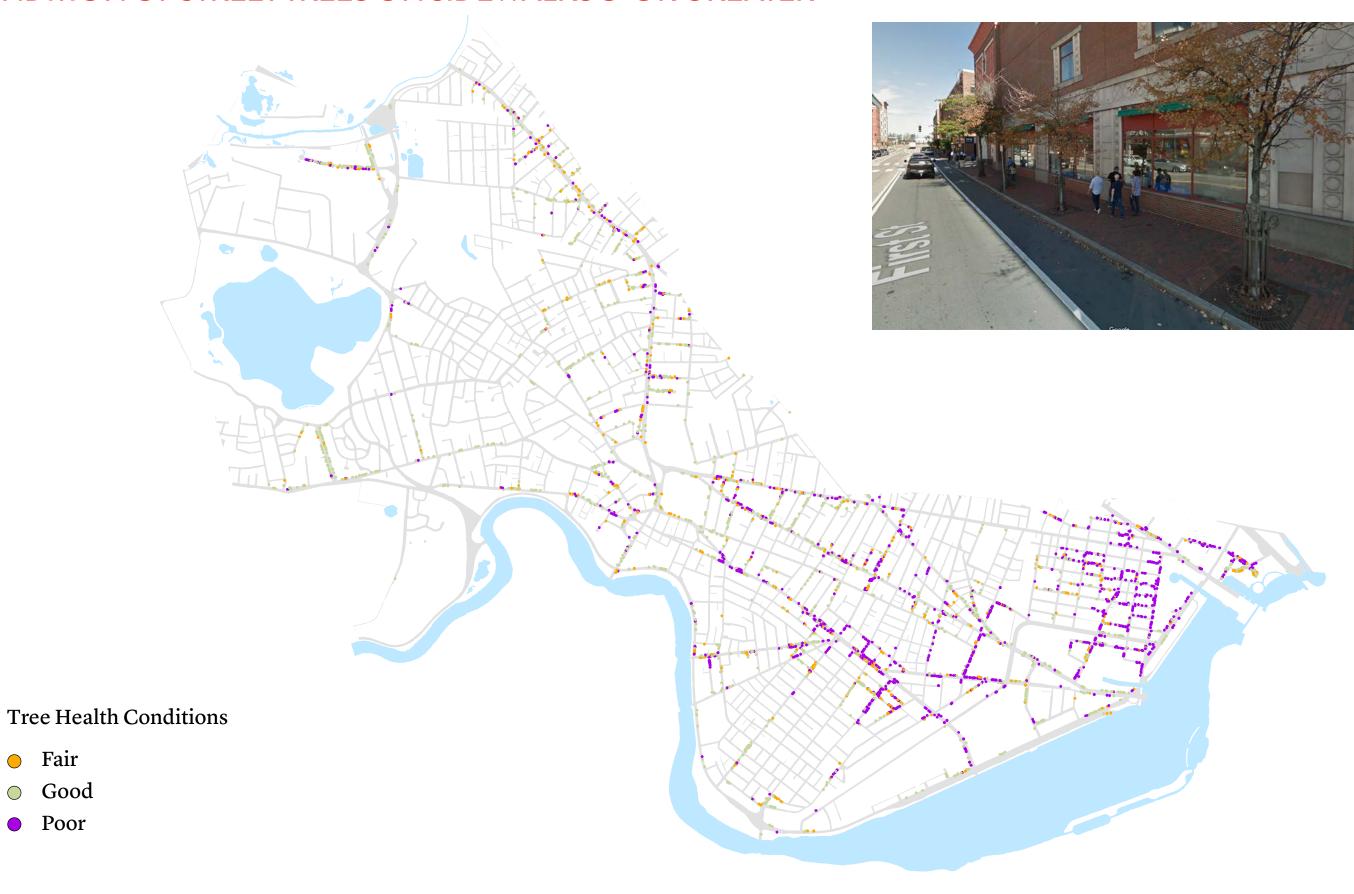
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#### CONDITION OF STREET TREES ON SIDEWALKS 8' OR GREATER

Fair

Good

Poor



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#### SIDEWALKS LESS THAN 6' WIDE



#### SIDEWALKS BETWEEN 6' AND 8'



#### SIDEWALKS 8' OR GREATER



#### ON SIDEWALKS WITH....

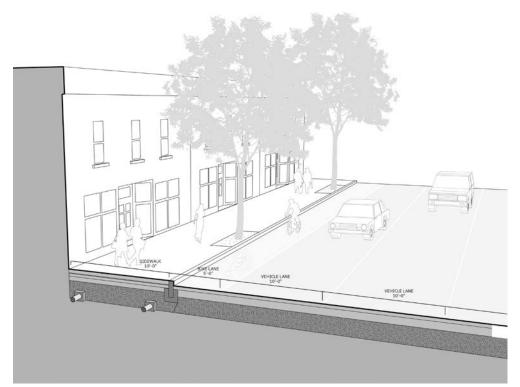
SIDEWALK	SUFFICIENT FRONT YARD		INSUFFICIENT FRONT YARD SETBACK			
WIDTH	SETBACK					
	ENCOURAGE FRONT YARD PLANTINGS	NEW STREET TREES SHOULD FOCUS ON PRACTICES	NO NEW STREET TREE PLANTINGS	ALTERNATIVE STREET DESIGN	ALTERNATIVE STRATEGIES	FOCUS ON PRACTICES
< 6' WIDE	<b>✓</b>		<b>✓</b>	<b>✓</b>	<b>√</b>	
6' to 8'	<b>✓</b>	<b>✓</b>		<b>✓</b>	<b>√</b>	<b>✓</b>
> 8'	<b>✓</b>	<b>✓</b>		<b>✓</b>	<b>√</b>	<b>\</b>

#### **R.O.W. CANOPY**

#### Areas without front yard setbacks rely on street trees for canopy



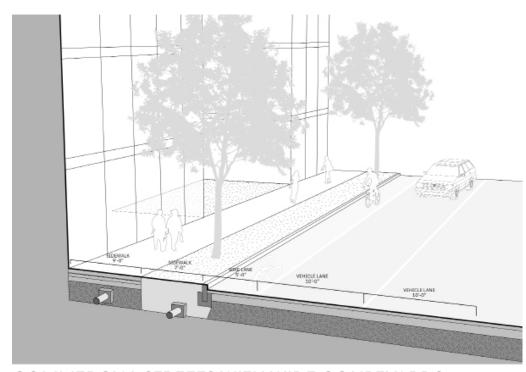
#### CONSTRAINTS REQUIRE INNOVATIVE APPROACHES



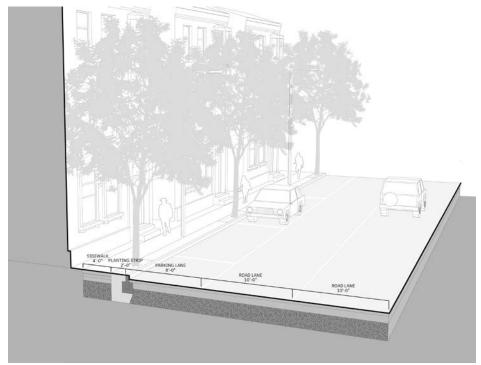
COMMERCIAL STREETS WITH NARROW SIDEWALK



COMMERCIAL STREETS WITH WIDE SIDEWALK



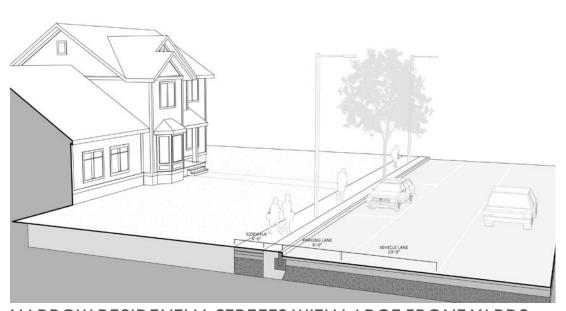
COMMERCIAL STREETS WITH WIDE COURTYARDS



NARROW RESIDENTIAL STREETS WITH NO SETBACK



NARROW RESIDENTIAL STREETS WITH FRONT YARDS



NARROW RESIDENTIAL STREETS WITH LARGE FRONT YARDS

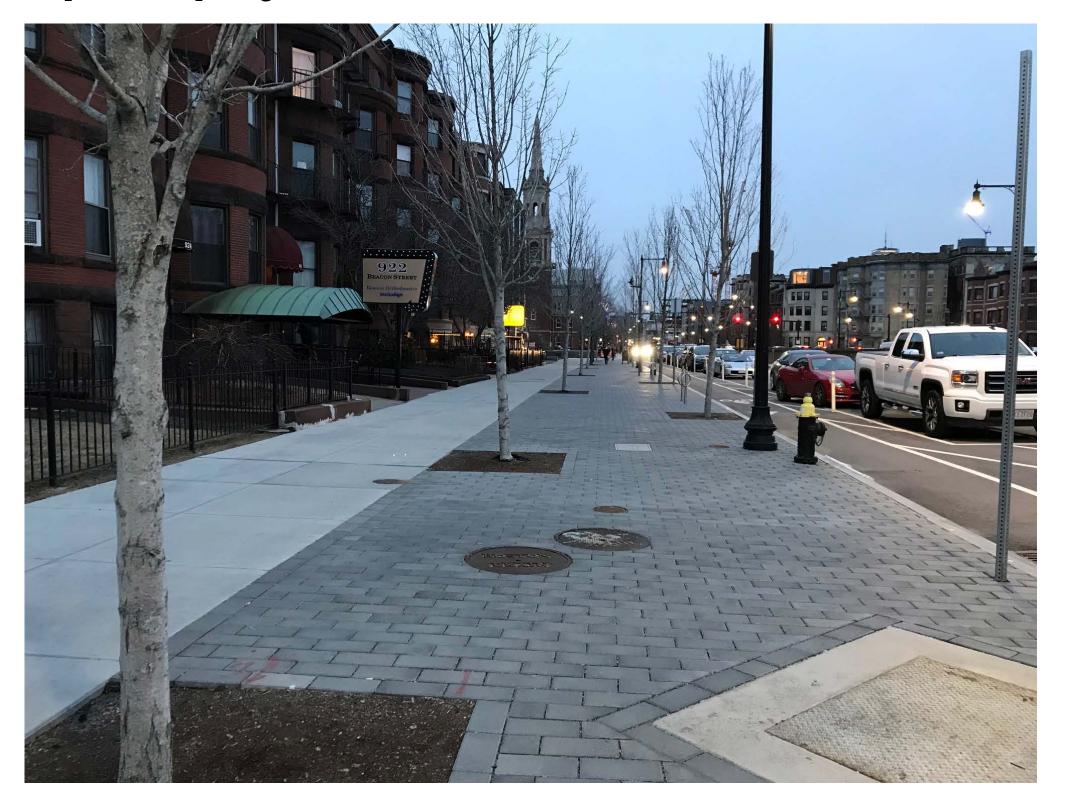
Existing conditions







Double row of trees with permeable paving



Boston

Double row of trees with permeable paving



Passeig de Sant Joan, Barcelona



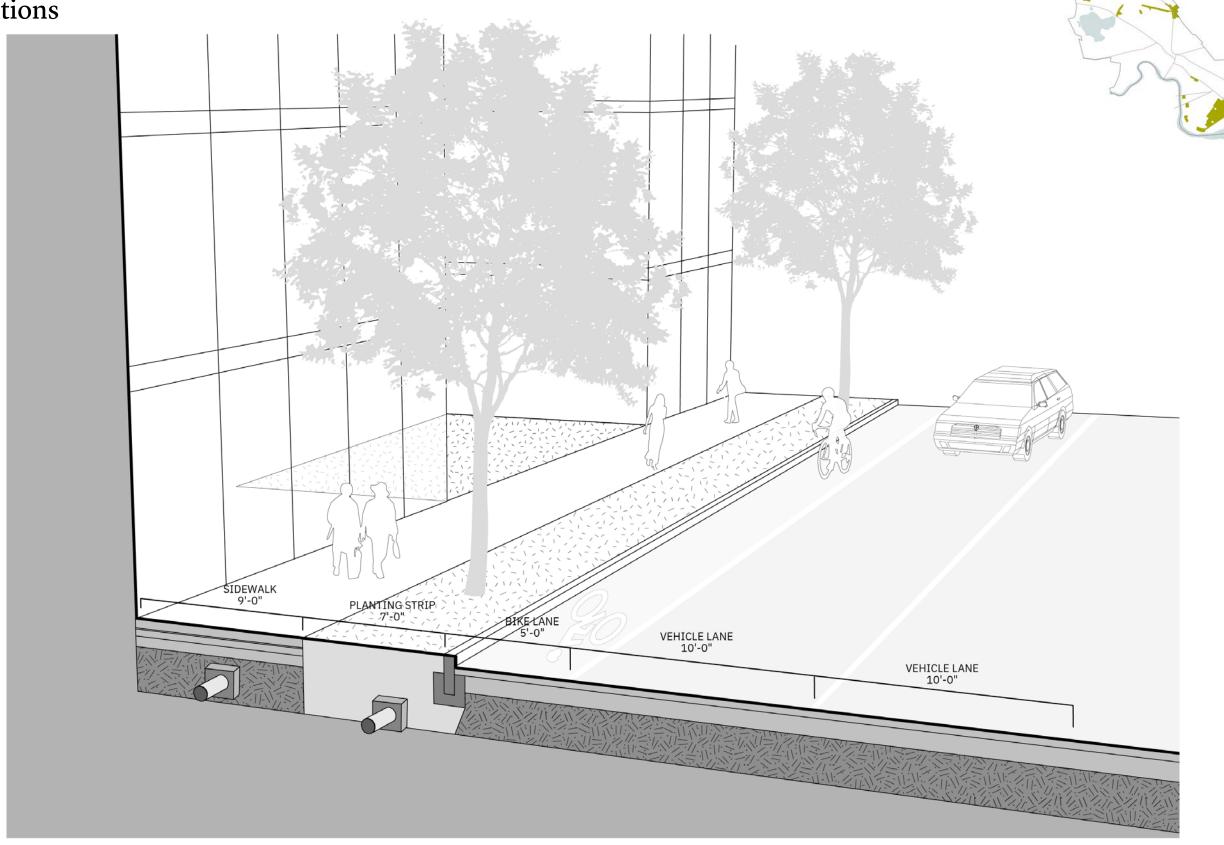


#### MAJOR STREETS, NARROW SIDEWALKS



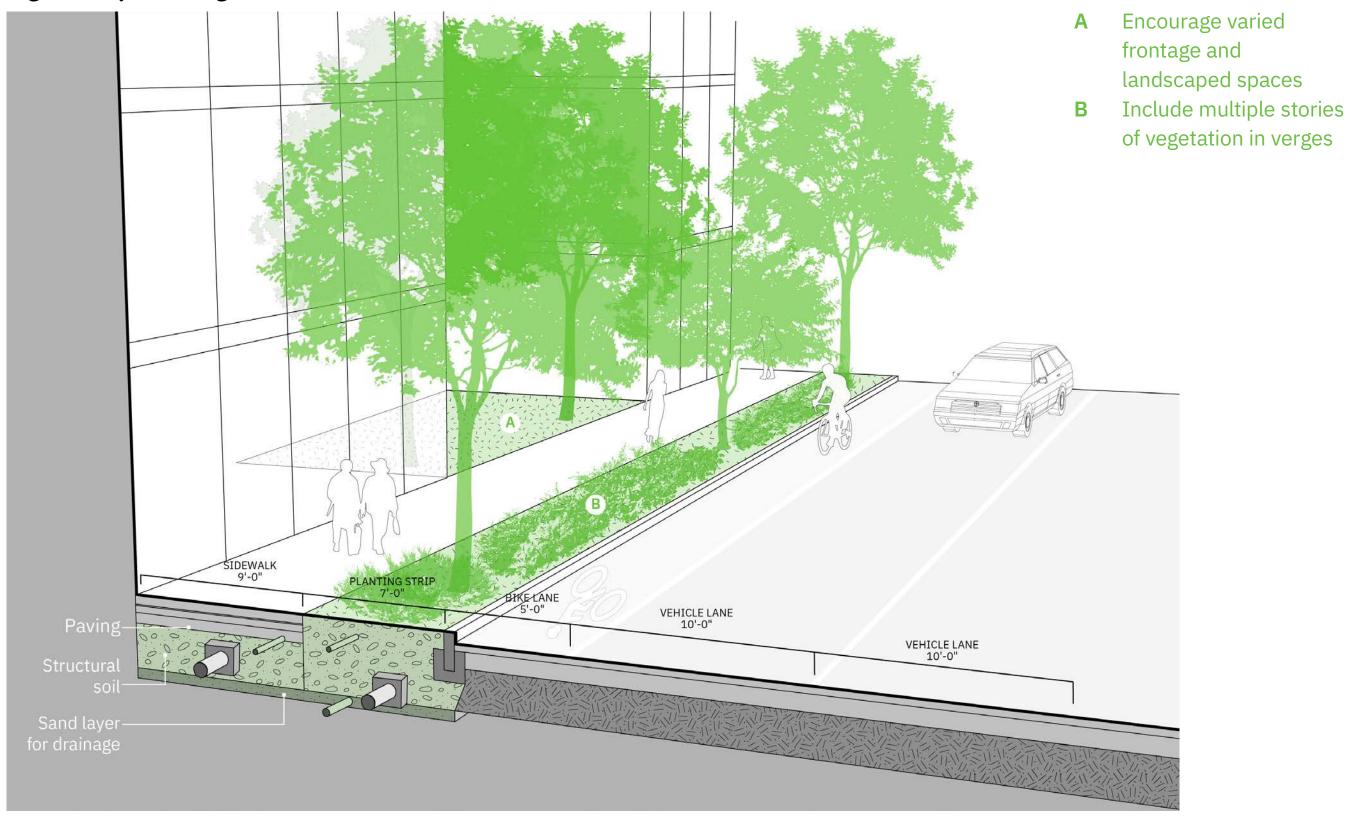
#### MAJOR STREETS WITH COMMERICAL BUILDINGS

Existing conditions



#### MAJOR STREETS WITH COMMERICAL BUILDINGS

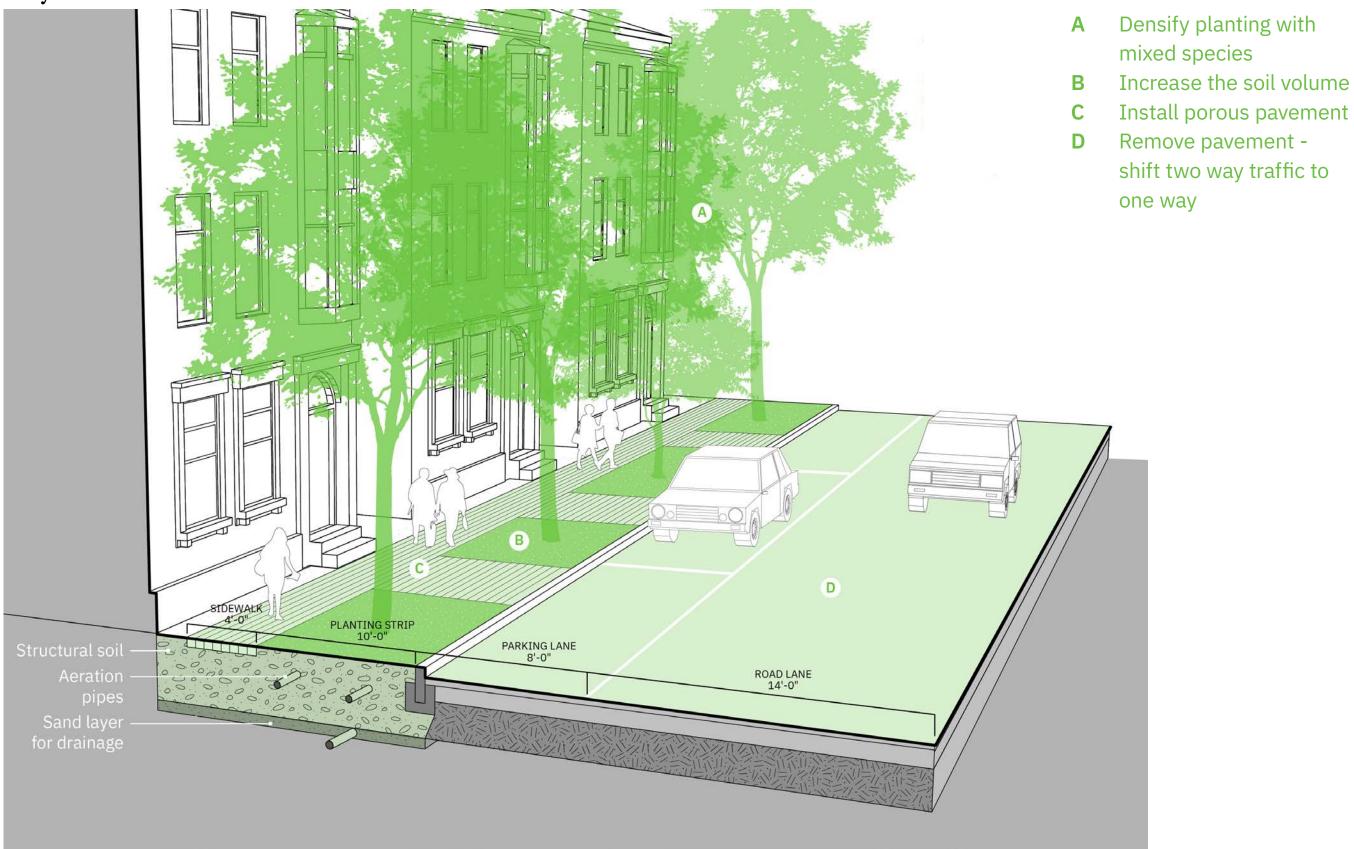
Frontage planting and layered vegetation

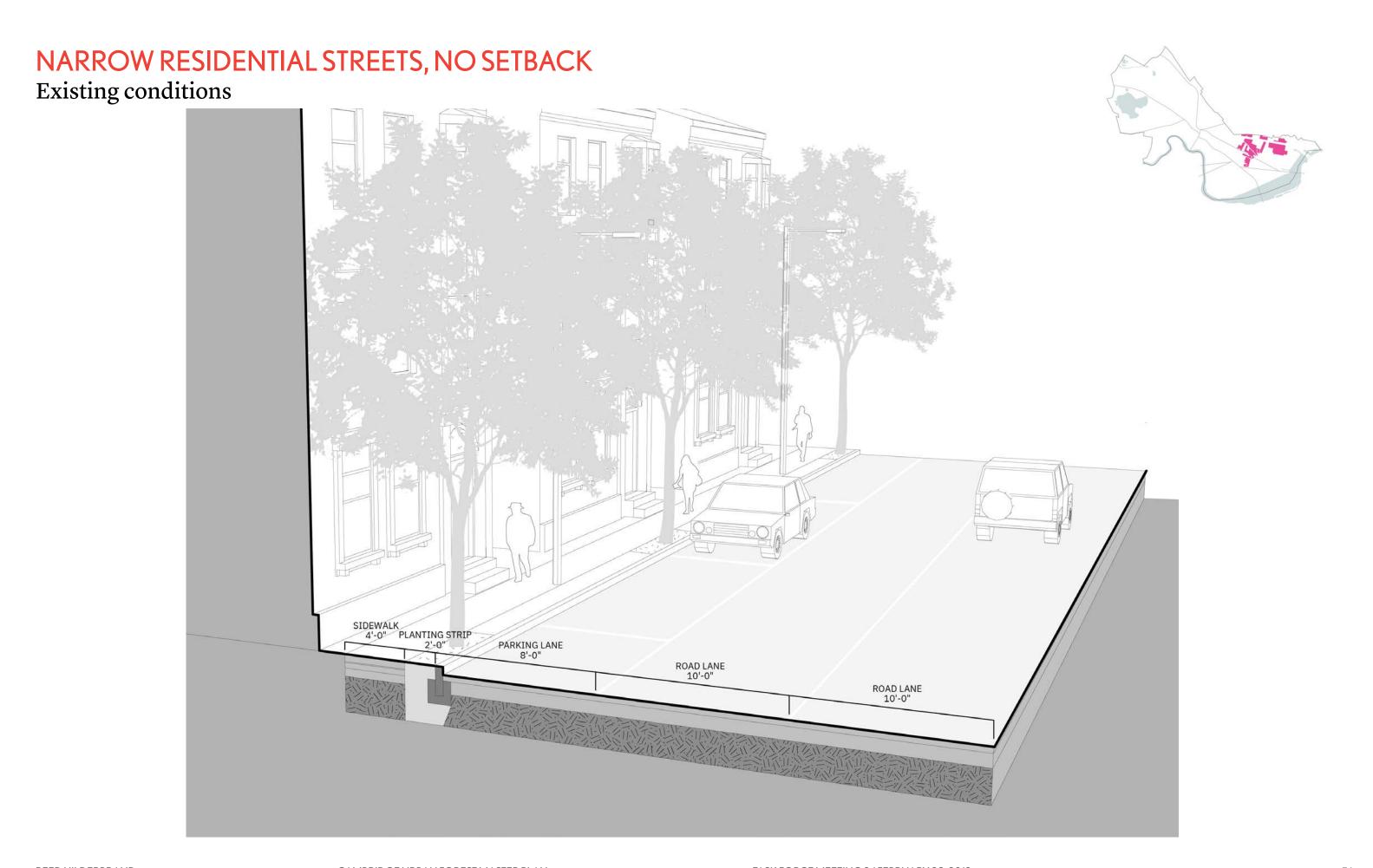




#### NARROW RESIDENTIAL STREETS, NO SETBACK

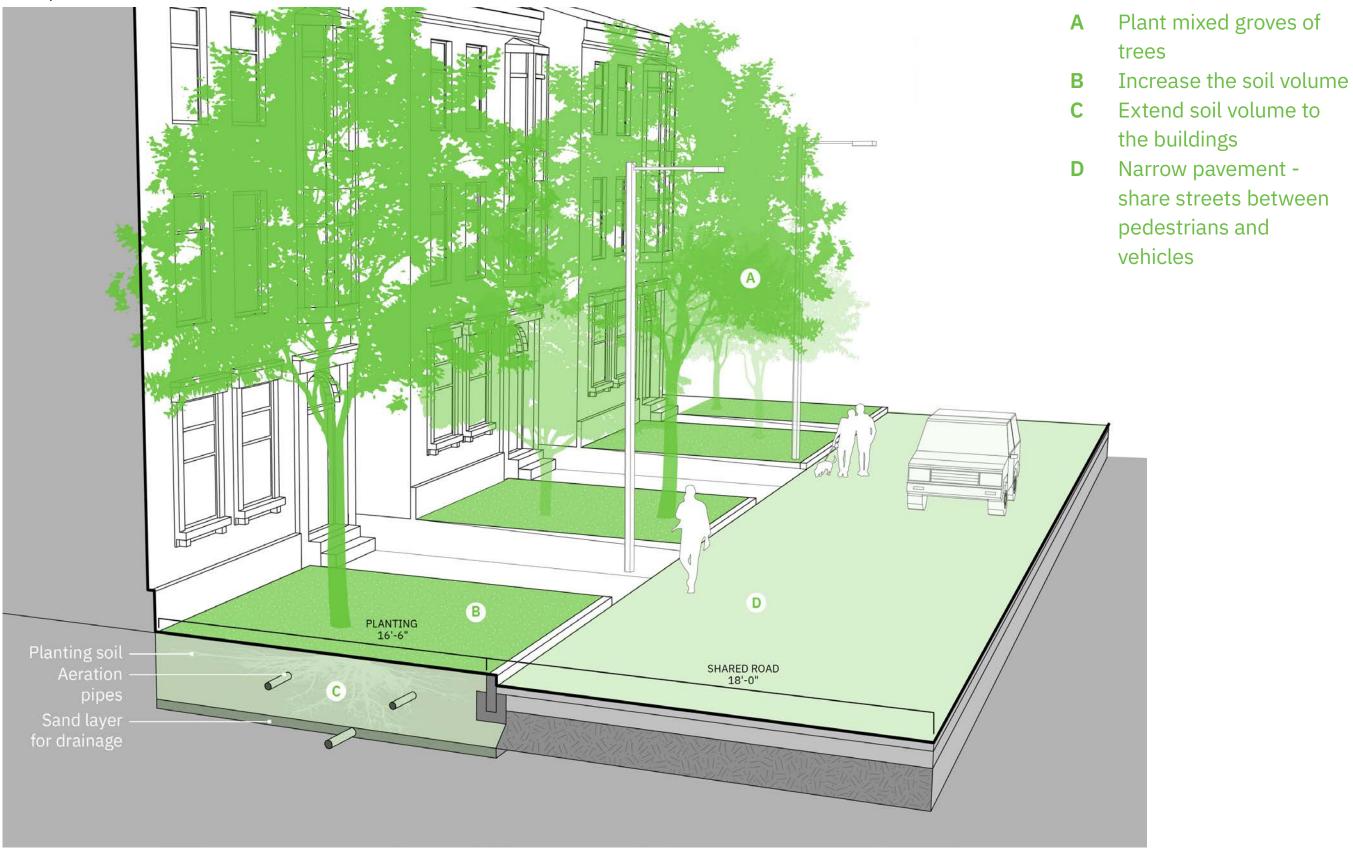
Lane diet, one-way travel





#### NARROW RESIDENTIAL STREETS, NO SETBACK

#### Pavement removal, shared street



#### NARROW RESIDENTIAL STREETS, NO SETBACK

#### Pavement removal, shared street





BEFORE

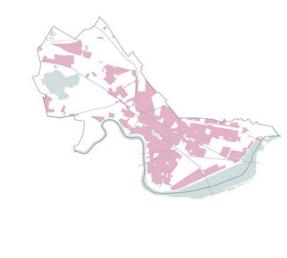
Image from Google Street View

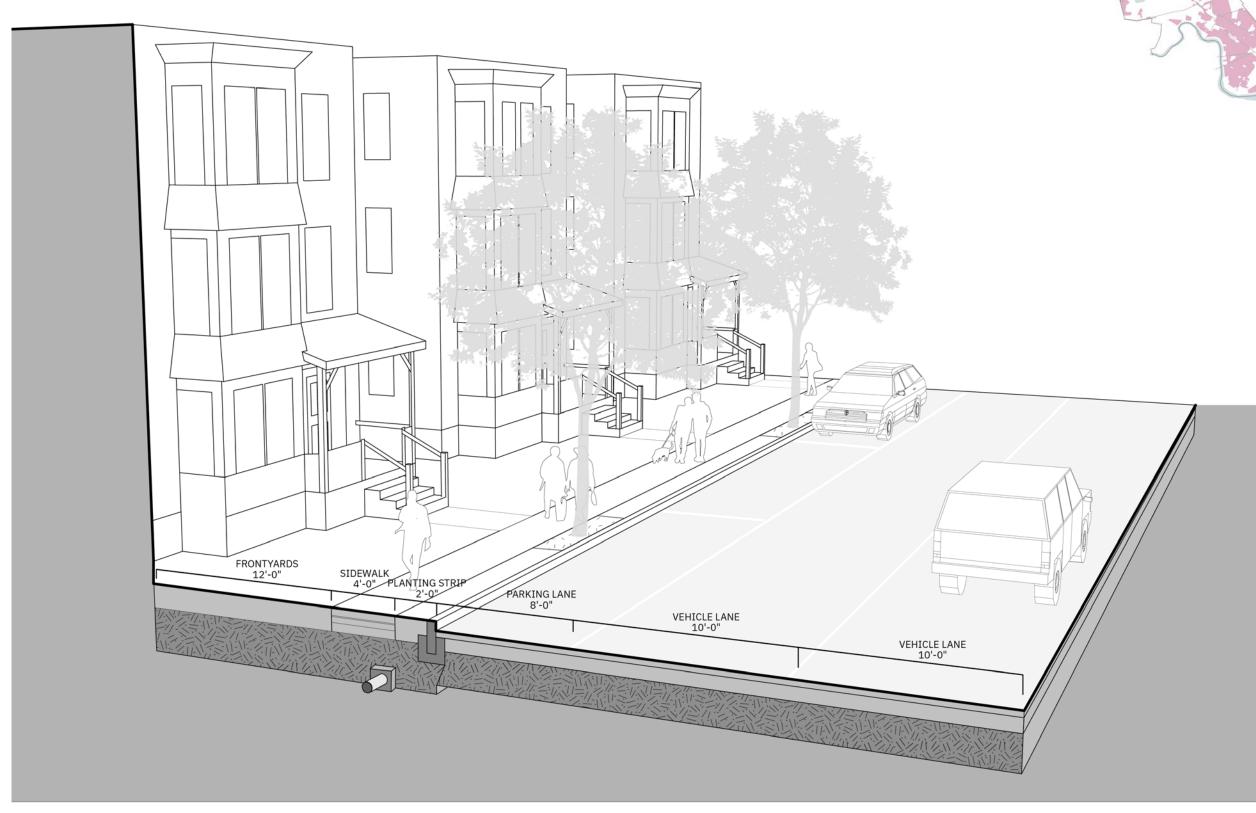
**AFTER** 

Image from Google Street View

LONGFELLOW ROAD, CAMBRIDGE

#### Existing conditions





De-paved and connected front yards



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Planting area fit into parking lane



#### Planting area fit into parking lane



Image from Google Street View



Image from Google Street View

### Chilton Street redesign as part of sewer separation project in Cambridge

Western Avenue redesign

#### Planting area fit into parking lane



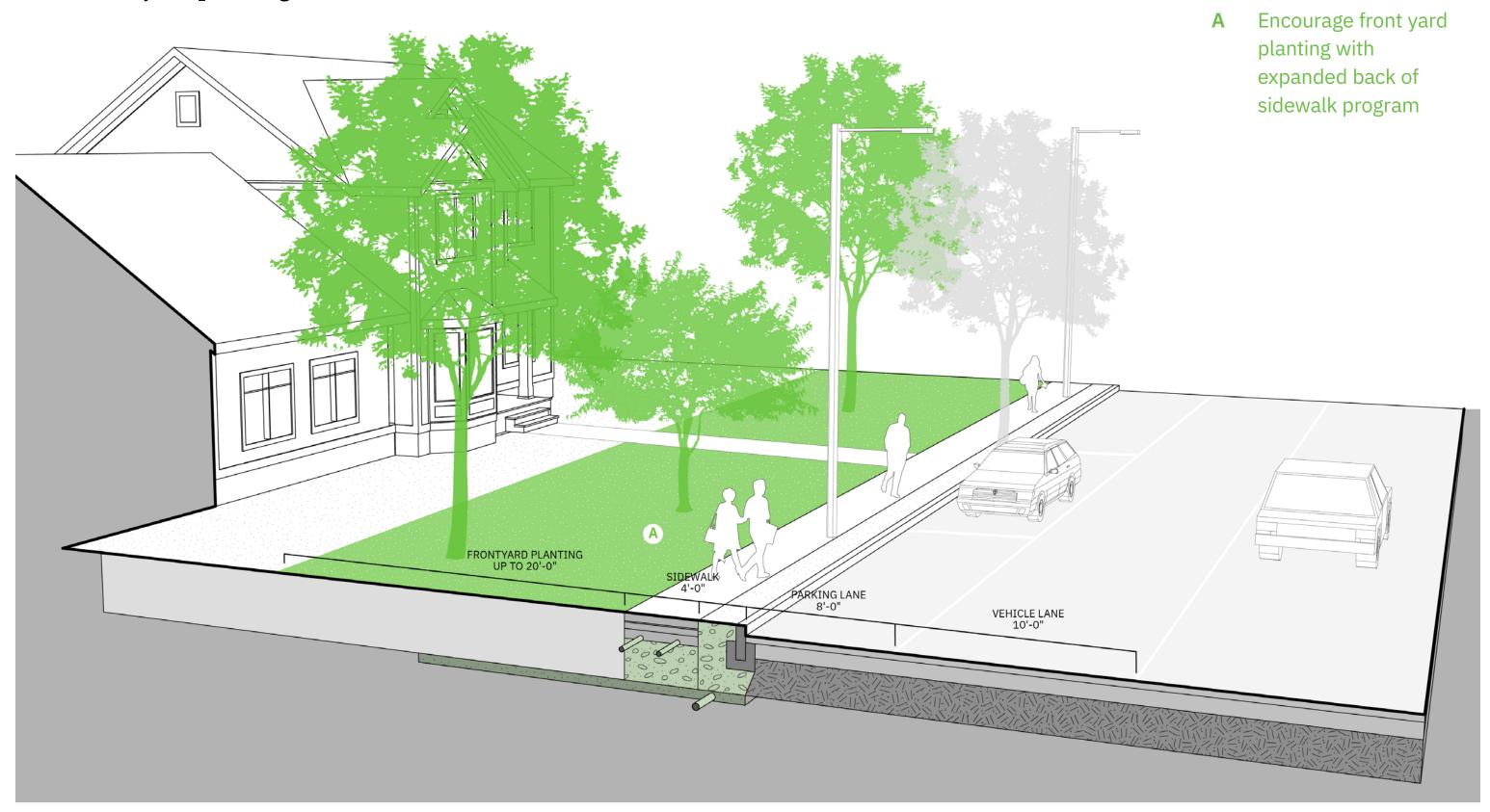


DOUBLE ROW OF TREES IN CURB BUMP OUTS IN SAN FRANCISCO

# RESIDENTIAL STREETS WITH LARGE FRONT YARDS Existing conditions SIDEWALK 4'-0" PARKING LANE 8'-0" VEHICLE LANE 10'-0"

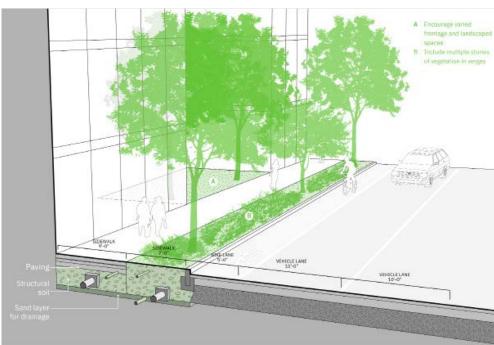
#### RESIDENTIAL STREETS WITH LARGE FRONT YARDS

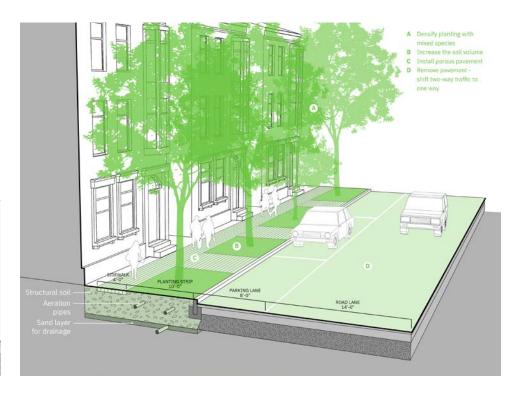
More front yard planting



#### CONSTRAINTS REQUIRE INNOVATIVE APPROACHES













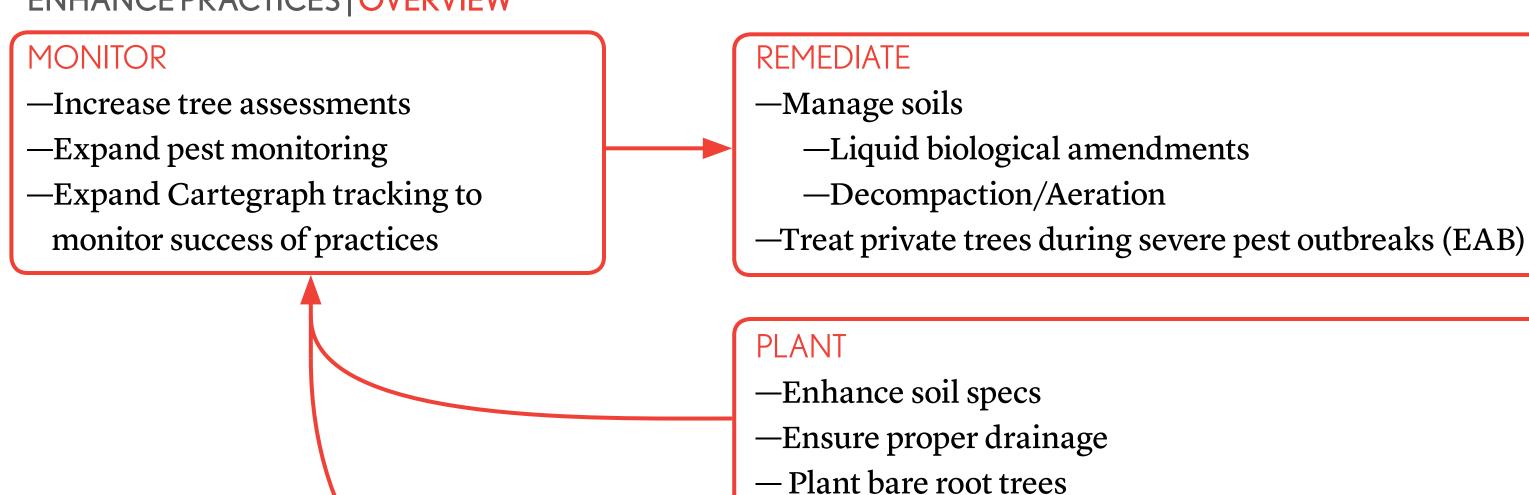
# PRINCIPLES PLANNING APPROACH DESIGN CONCEPTS PRACTICES

## The City of Cambridge forest management practices are generally aligned with best industry practices.

To curb loss and grow canopy, enhanced practices fall into four categories:

improve monitoring and responsiveness remediate causes of decline improve planting and soils details expand routine maintenance

#### ENHANCE PRACTICES | OVERVIEW



#### MAINTAIN

- —Formalize a City-wide management plan
- —Manage soils
  - —Mulching
  - —Liquid biological amendments
- —Structural pruning for young trees
- —Expand watering program

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#### Increase frequency of city-wide tree assessments.

#### **BENEFITS**

Allows identification of stressed trees for remediation practices

#### **SCOPE OF WORK**

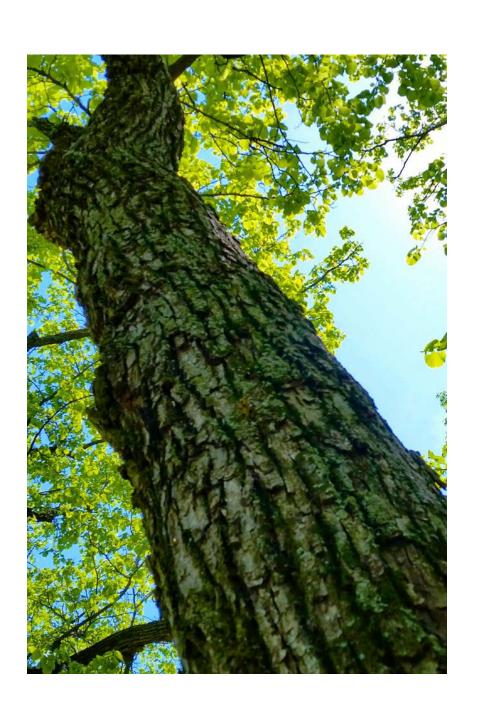
High: 3 zones for annual assessment cycle

Low: 5 zones for annual assessment cycle

#### **FREQUENCY**

High: Survey trees on a 3 year cycle

Low: Survey trees on a 5 year cycle



#### Expand pest/disease monitoring.

#### **BENEFITS**

Allows treatment at start of outbreak

#### **SCOPE OF APPLICATION**

Monitor specifically for pests/diseases that are systemic city-wide threat Formalize coordination protocols with surrounding municipalities



Emerald Ash Borer trap

#### **SCOPE OF WORK**

High: Traps and tree assessments

Low: Traps

Track all treatments (ie., soil management) in Cartegraph (City inventory software).

#### **BENEFITS**

Ability to assess success of treatments

#### **SCOPE OF APPLICATION**

All trees when pruned by contractors
All trees treated with liquid biological amendments and decompaction measures

#### **SCOPE OF WORK**

Record treatment in Cartegraph through mobile device at time of treatment Follow up inspection to assess efficacy of treatment

### Treat private trees during city-wide pest/disease outbreaks.

#### **BENEFITS**

In the case of Emerald Ash Borer (EAB) the City is currently treating 883 City trees, approx. 2% of City canopy

LiDAR survey indicates there are 1,536 Ash in the City, approx. 4% of the City canopy

Expanding EAB treatment to private trees could save additional 2% of canopy

#### **SCOPE**

Treat approx. 650 private trees with TreeAzin injections per City spec 650 trees x 12" DBH avg x \$15/caliper inch = approx. \$117,000/year



### Treat underperforming trees with liquid biological amendments.

#### **BENEFITS**

Improve nutrient availability Reduce compaction

#### **SCOPE OF APPLICATION**

High: all publicly owned trees showing signs of fair-poor condition

Medium: all publicly owned trees showing signs of poor condition Low: 1/2 publicly owned trees showing signs of poor condition

#### **SCOPE OF WORK**

Soil injections of 10 gallon liquid (compost tea) @ 4 points per tree Approximately 10 minutes per tree

#### **FREQUENCY**

High: yearly, half of the trees in spring and half in fall

Low: 1/3 of trees each year, 3 year cycle of treatment



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### Treat compacted soil through mechanical decompaction.

#### **BENEFITS**

Reduce compaction Enhance moisture retention

#### **SCOPE OF APPLICATION**

High: All publicly owned non-street trees

Low: Park trees in areas of high use

#### **SCOPE OF WORK**

Treat zones with Aera-vator within dripline of each tree or group of trees
Incorporate high-quality compost during treatment
Approximately 60 minutes per tree



#### **FREQUENCY**

High: each tree every year, half of the trees in spring and half in fall

Medium: each tree every two years, a quarter of the trees in spring and quarter in fall

Low: once, half the trees in the spring, half in the fall

PLANT | DRAINAGE DRAFT

### Incorporate drainage measures in new plantings.

#### **BENEFITS**

Prevent roots from potentially sitting in water and dying

#### **SCOPE OF APPLICATION**

Test all new plantings, remediate where needed

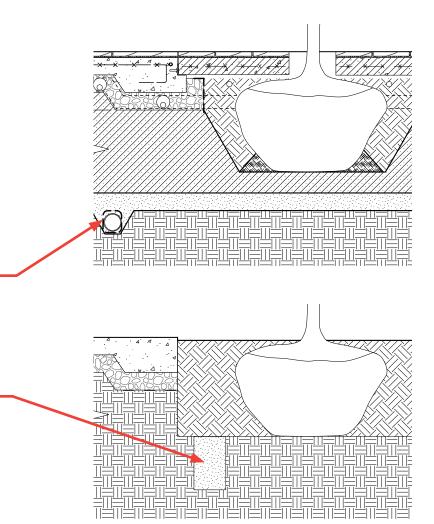
#### **SCOPE OF WORK**

High: Underdrains at bottom of pits for

new trees associated with large projects

Low: Augur sand wicks at bottom of pit

for tree pits with poor drainage



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### Enhance soil specifications.

#### **BENEFITS**

- A) Improve tree health and root capacity
- B) Improve survival rates and growth rates

#### **SCOPE OF APPLICATION**

A) High: All publicly planted trees

B) Low: All publicly planted street trees

#### **SCOPE OF WORK**

- A) Develop multiple soils blends to respond to specific conditions
  - i. Structural soils
  - ii. Suspended pavements
  - iii. Parkland Turf
  - iv. Beds and mixed planting



- B) Incorporate biological guidelines into soil specification
- C) Continue to incorporate biochar within soils
- D) Measure compaction by standard proctor
- E) Require compliance testing by contractor

PLANT | NEW PLANTINGS

### Plant bare root trees and manage a gravel bed nursery.

#### **BENEFITS**

Increase survival rates
Increase species selection
Lower installation costs
Expand season for planting

#### **SCOPE OF WORK**

Manage a gravel bed nursery on city-owned land

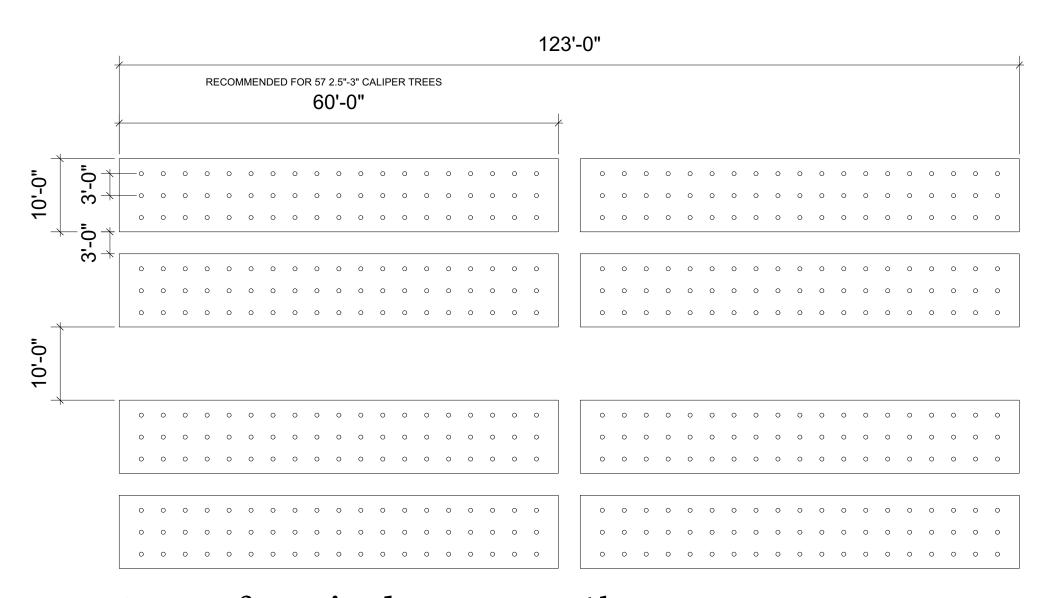








### Manage a gravel bed nursery.



8,200 sf required to store 456 bare root trees.

### Create City-wide Management Plan

#### **BENEFITS**

Clarity of annual goals, ability to track performance

#### **SCOPE OF WORK**

Formalize management goals and objectives

Documentation of all aspects of tree management practices

Institute annual assessment of progress

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### Implement structural pruning for young trees.

#### **BENEFITS**

Improve storm resiliency and life span of trees

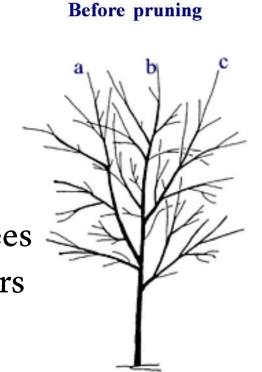
#### **SCOPE OF APPLICATION**

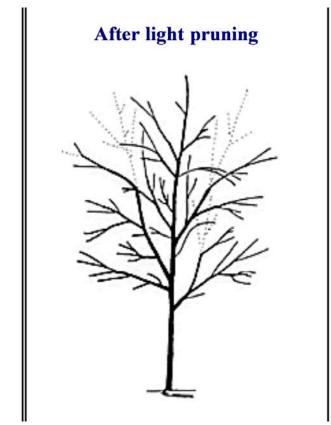
High: All new City plantings +

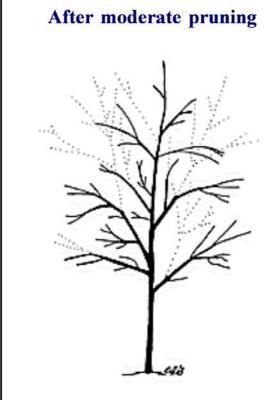
Require structural pruning of new trees

planted under Special Permits for 6 yrs

Low: All new City plantings







Graphic from "Structural Pruning of Shade Trees," Gilman and Eisner

#### SCOPE OF WORK

Selectively prune branches and stems larger than about half the diameter of the trunk.

#### **FREQUENCY**

High: Prune young trees on 3 year pruning cycle for first 6 years after planting (two visits), 5 year cycle for next 15 years (three visits)

Low: Prune young trees on 3 year pruning cycle for first 9 years after planting (three visits)

MAINTAIN | WATERING DRAFT

### Expand watering program

#### **BENEFITS**

Improve resistance to pests and disease

#### **SCOPE OF APPLICATION**

High: all publicly owned trees

Medium: all publicly owned trees under 20 years of age

(where impacts are believed to be highest)

Low: Trees in high risk areas

#### **SCOPE OF WORK**

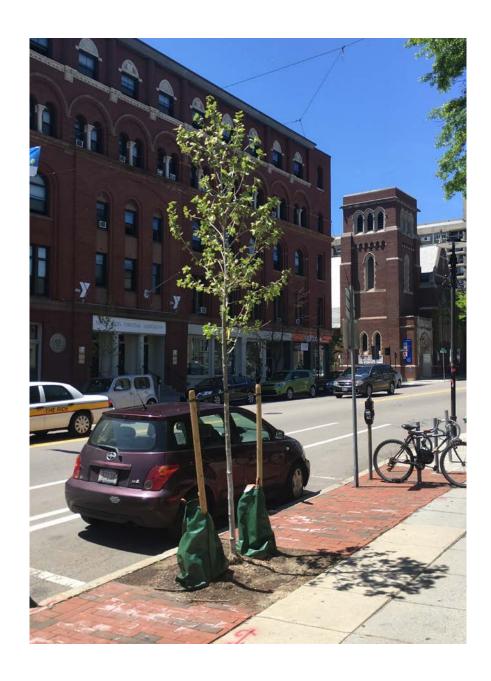
Soak soil around tree

Approx. 10 mins per tree

#### **FREQUENCY**

High: Irrigate each tree in scope once per month during June-August

Low: Irrigate trees when showing signs of stress



### Expand mulching program

#### **BENEFITS**

Improve soils and tree health

#### **SCOPE OF APPLICATION**

High: all publicly owned trees with exposed soil (NIC flexipave, tree grates, etc) (use Bartlett's

survey to make an estimate of % bare soil trees)

Medium: all publicly owned non-street trees

Low: all trees showing signs of stress (per yearly city-wide tree assessment)

#### **SCOPE OF WORK**

Spread mulch on exposed soil areas

Approximately 15 minutes per tree

#### **FREQUENCY**

High: Each tree every year in spring

Med: 1/4 of trees per year in spring

Low: Adopt-a-tree mulching with mulch barrels

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### Liquid biological amendments

#### **BENEFITS**

Improve nutrient availability Reduce compaction

#### **SCOPE OF APPLICATION**

High: all publicly owned trees

Low: all publicly-owned trees under 20 years of age

#### **SCOPE OF WORK**

Soil injections of 10 gallon liquid (compost tea) @ 4 points per tree Approximately 10 minutes per tree

#### **FREQUENCY**

High: yearly, half of the trees in spring and half in fall

Low: 1/3 of trees each year, 3 year cycle of treatment

MAINTAIN | SOILS HEALTH

**DRAFT** 

### De-icing

#### **SCOPE OF WORK**

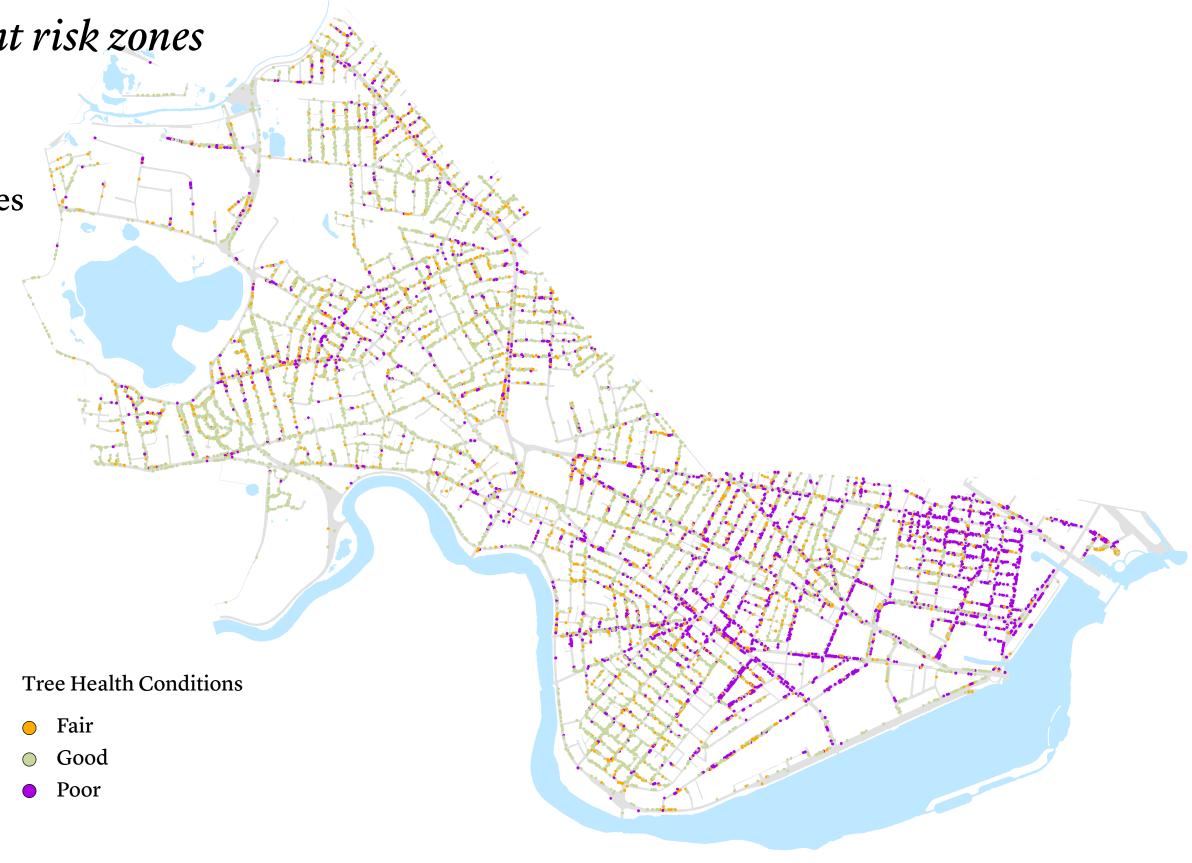
Continue to investigate alternative deicing methods, e.g. brine treatments on sidewalks. After winters with heavy deicer use, flush tree pits in spring

### MAINTAIN | RISK ZONES

Create management risk zones

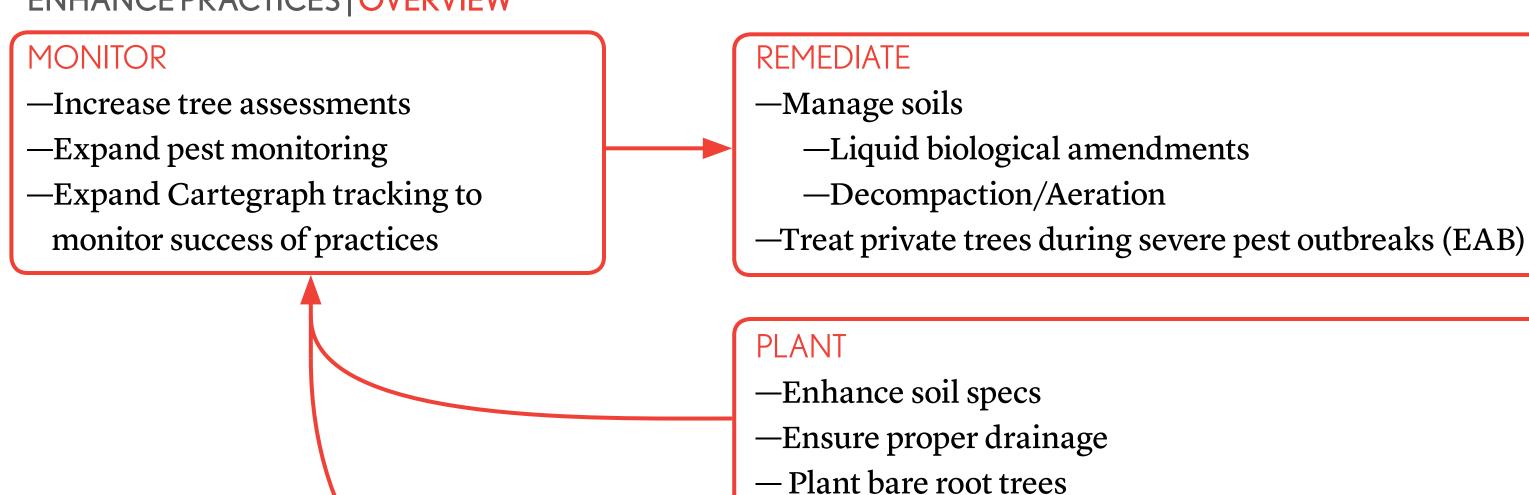
#### **BENEFITS**

Improve efficiency by tracking most at-risk trees



REED HILDERBRAND

#### ENHANCE PRACTICES | OVERVIEW



#### MAINTAIN

- —Formalize a City-wide management plan
- —Manage soils
  - —Mulching
  - —Liquid biological amendments
- —Structural pruning for young trees
- —Expand watering program

## PUBLIC COMMENT

www.cambridgema.gov/ufmp

#### TASK FORCE MEETING SCHEDULE

JUNE 12	Introduction	NOVEMBER 29	TESTING: Baseline Change Model
JUNE 28	RESEARCH: Regulation and Management	DECEMBER 20	DRAFT: Policy
JULY 26	RESEARCH: Goal Setting	JANUARY 31	DRAFT: Policy
AUGUST 30	RESEARCH: Ongoing Analysis + Climate Modeling	FEBRUARY 28	DRAFT: Planning and Practice
SEPTEMBER 27	RESEARCH: Summary of Findings	MARCH 28	DRAFT: Outreach, Cost / Benefit
OCTOBER 25	Cancelled	APRIL 25	DRAFT: Prioritization

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