# **Spring Hill Sewer Separation**

Community Meeting – Design Overview and Streetscape Workshop

Mayor Joseph A. Curtatone Councilor Ben Ewen-Campen Councilor Mark Niedergang

Feb 3<sup>rd</sup>, 2020



# Introduction

## What we're covering tonight

- Introductions
- Project overview
- Streetscape improvements
- Breakout activity
  - Central St (Somerville Ave to Highland Ave)
  - Highland Avenue (Central St to McGrath Hwy)
  - School Street (Somerville Ave to Highland Ave)
  - Summer Street (Belmont St to Bow St)
  - Sewer separation and infrastructure upgrades

#### Project Guiding Principles and Goals SOMERVISION2040 Sustainability • Diversity • Opportunity • Connectivity • Community



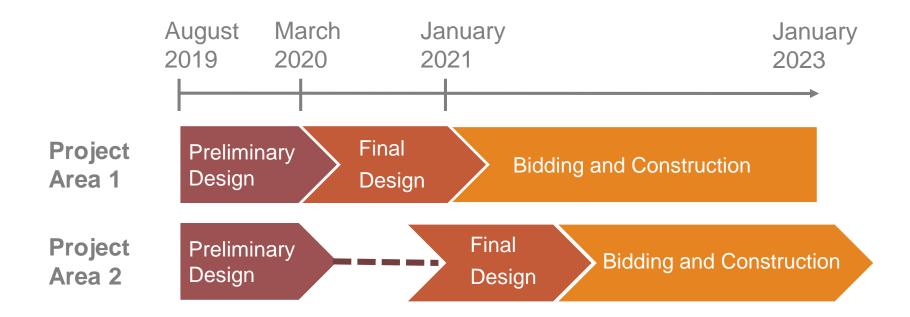


## Project Limits

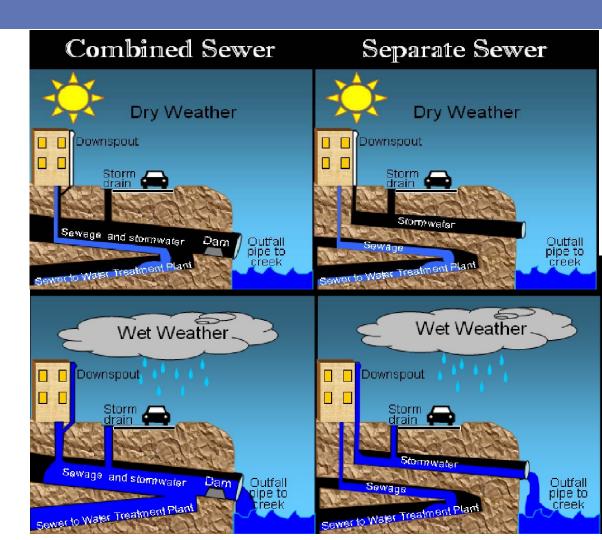


#### Spring Hill Project Areas

### Schedule



Storm drains, sanitary sewers and combined systems





#### Requires suite of targeted control measures



## **Union Square Program locus**



## Redesigning the sub surface

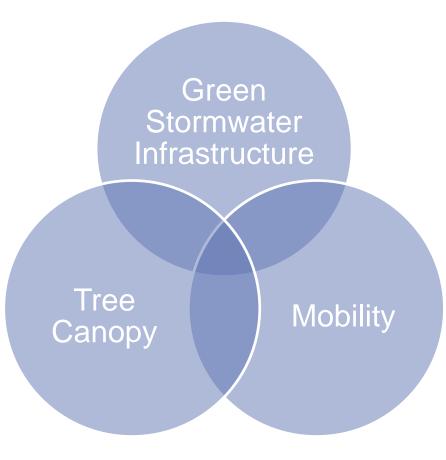
- Sewer rehabilitation (separation and conveyance benefits)
- Water main upgrades
- Coordination with gas main, other utility upgrades





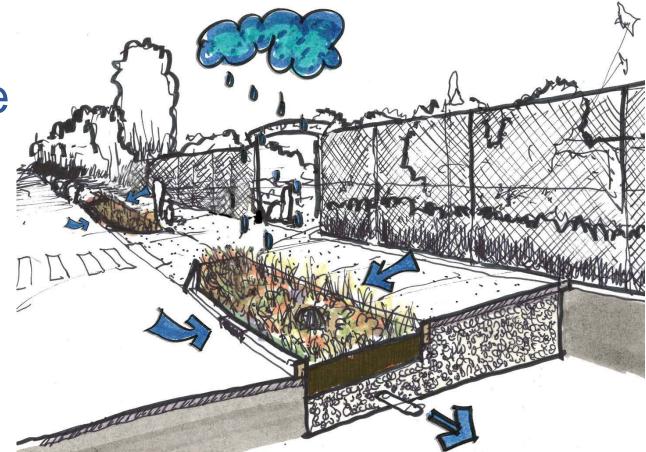
# Streetscape Improvements

## Streetscape Factors



Green Stormwater Infrastructure (GSI)

- Definition
- City Goals
- Co-benefits



## Stormwater Planter

- Benefits
- Design
  Considerations
- Installation and Cost



### Bumpout/ Curb Extension





## **Tree Canopy**

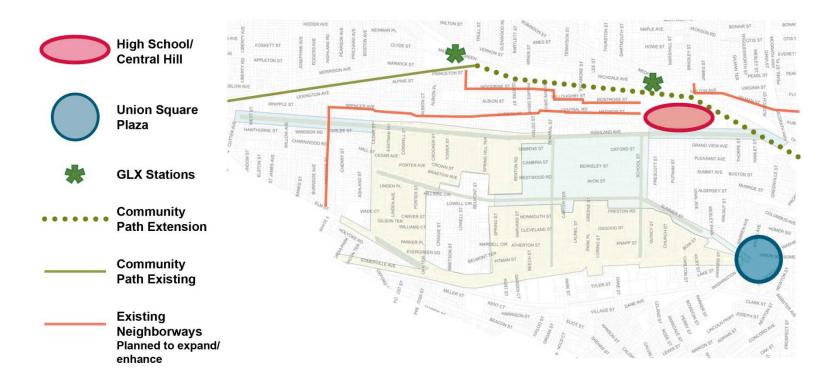
- Urban Forestry guiding principles and goals
  - Proactively manage and expand the City's public tree canopy
  - Harness maximum ecosystem services in order to:
    - reduce and prevent air and water pollution
    - cool temperatures and decrease energy demands
    - support wildlife habitat
    - increase value of businesses and residences
    - contribute to safer streets

#### Areas of Tree Concentration

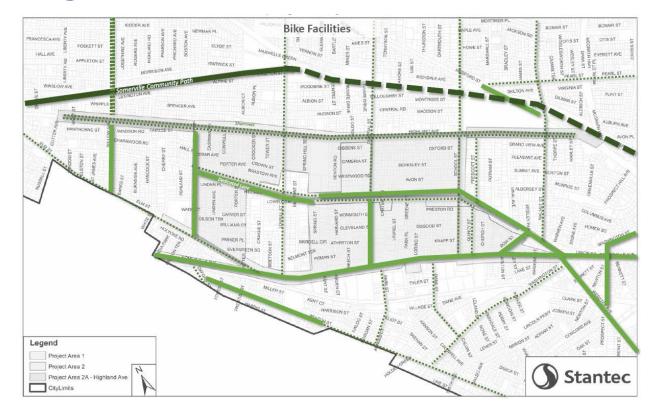


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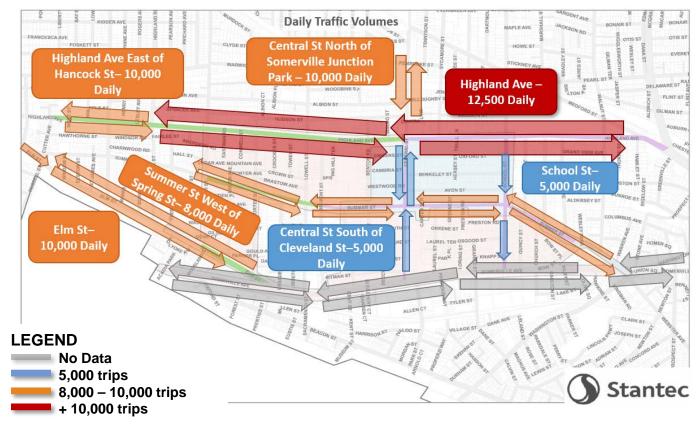
## Mobility In and Around Spring Hill



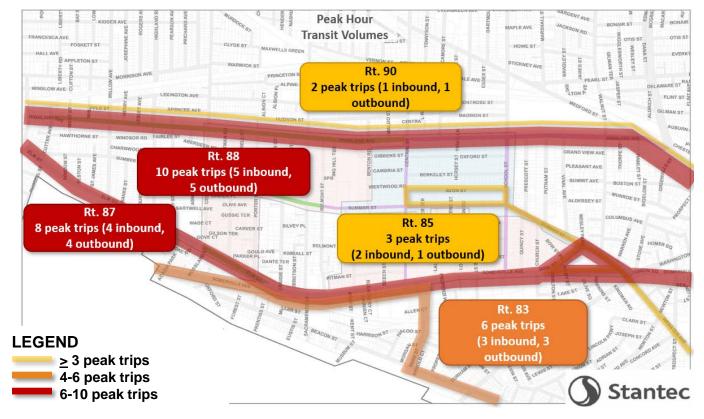
### Existing Bike Facilities - Mobility



## Existing Traffic Volumes - Mobility



#### Existing Peak Hour Transit Volumes - Mobility

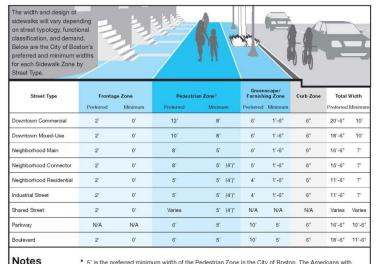


#### Sharing the Road – Things to Consider



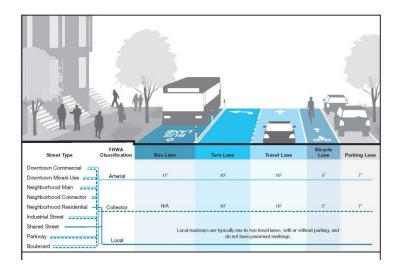
#### Sharing the Road – Things to Consider

#### Preferred and Minimum Widths for Sidewalk Zones



5' is the preferred minimum width of the Pedestrian Zone in the City of Boston. The Americans with Disabilities Act (ADA) minimum 4' wide Pedestrian Zone can be applied using engineering judgement when reforting 7' wide existing sidewalks where widening is not feasible.

#### **Minimum Widths for Roadway Lanes**



From Boston Complete Streets Guidelines

## **Possible Improvements**

#### **Bike Improvements**

- Raised cycle track (one- or two-way)
- Buffered / parking-protected street-level cycle track (one- or two-way)
- "Copenhagen" style half-raised bike lane

#### **Bus Improvements**

- Transit-friendly lane (minimum 11')
- Bus pull-out
- In-lane / floating bus stop

#### Walking Improvements

- Curb extensions (bump-outs)
- Raised crossings
- Crossing island
- Multi-use sidewalk

#### Traffic Improvements

- Shared street markings (sharrows)
- Curb extensions (bump-outs)
- Parking / Travel chicane















## **Break Out Activities**

## **Breakout Session**

- 1. Streets needs and wants
  - What isn't working on this street? What improvements could it use?
- 2. Function of the street
  - To which users is this street oriented? Should it change?
- 3. Potential street changes
  - Is the current cross-section of this street meeting its desired function? What changes can we make?

## **Existing Cross Sections**

Summer Street, Belmont Street to Bow Street

