

3

Existing Conditions



Existing Conditions

Introduction	27
Physical Features	28
Park Usage	32
Corridor-wide Topics	33
Mobility and Access	34
Natural Resources	37
Cultural Resources	38

Introduction

The existing conditions phase of the action plan was both robust and thorough, involving a comprehensive inventory of physical features and extensive data collection on park usage through pedestrian and bike counters, direct observation of park spaces, and the use of big data analysis. This review revealed that the path system is as heavily used as some of the most trafficked paths in the metropolitan Boston area. The existing bike path, currently functioning as a shared-use path, is insufficient for the volume and diversity of users, with its 8 to 10-foot width unable to accommodate the mode split, necessitating a separation of uses. Additionally, the Southwest Corridor Park (SWCP) boasts excellent connectivity to transit, bike lanes, and other greenways but lacks a consistent identity, which could be addressed by implementing a unified signage system.

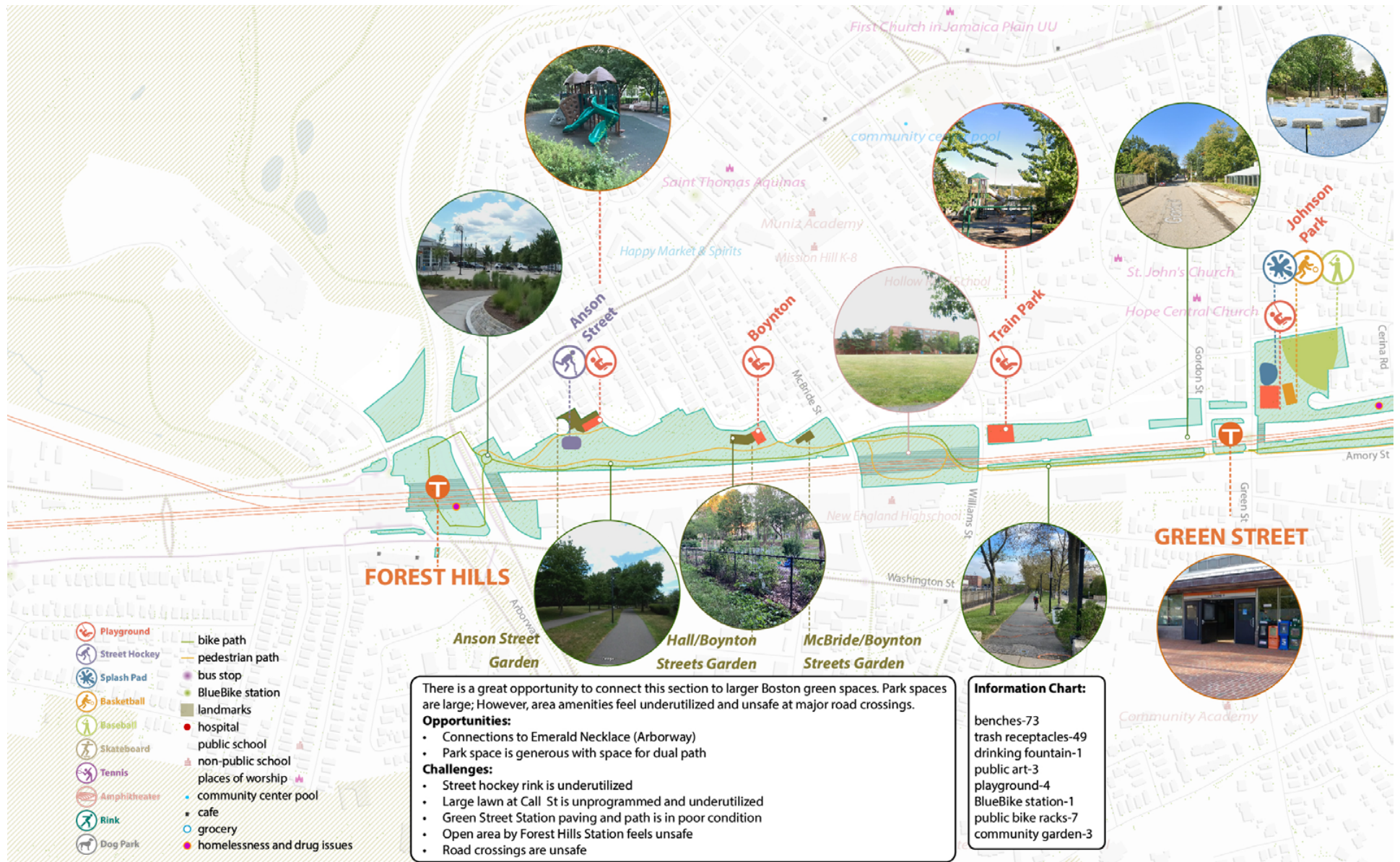
Deferred maintenance poses a significant challenge throughout the park, with aging infrastructure in need of replacement and renewal. Operations staffing has decreased substantially, forcing the team to prioritize what can be maintained and what must be deferred. Constructed prior to the American with Disabilities Act (ADA), many areas of the park are not compliant with current accessibility standards. Moreover, the demographics and population density of the

surrounding communities have changed considerably, necessitating that the park adapt to meet both current and future community needs. A focus on climate resiliency is also crucial, as the park must better respond to increasingly frequent and intense storms while providing much-needed shade and cooling for vulnerable communities.

The findings from this existing conditions phase, coupled with insights from community engagement, have significantly informed the recommendations outlined in this action plan.

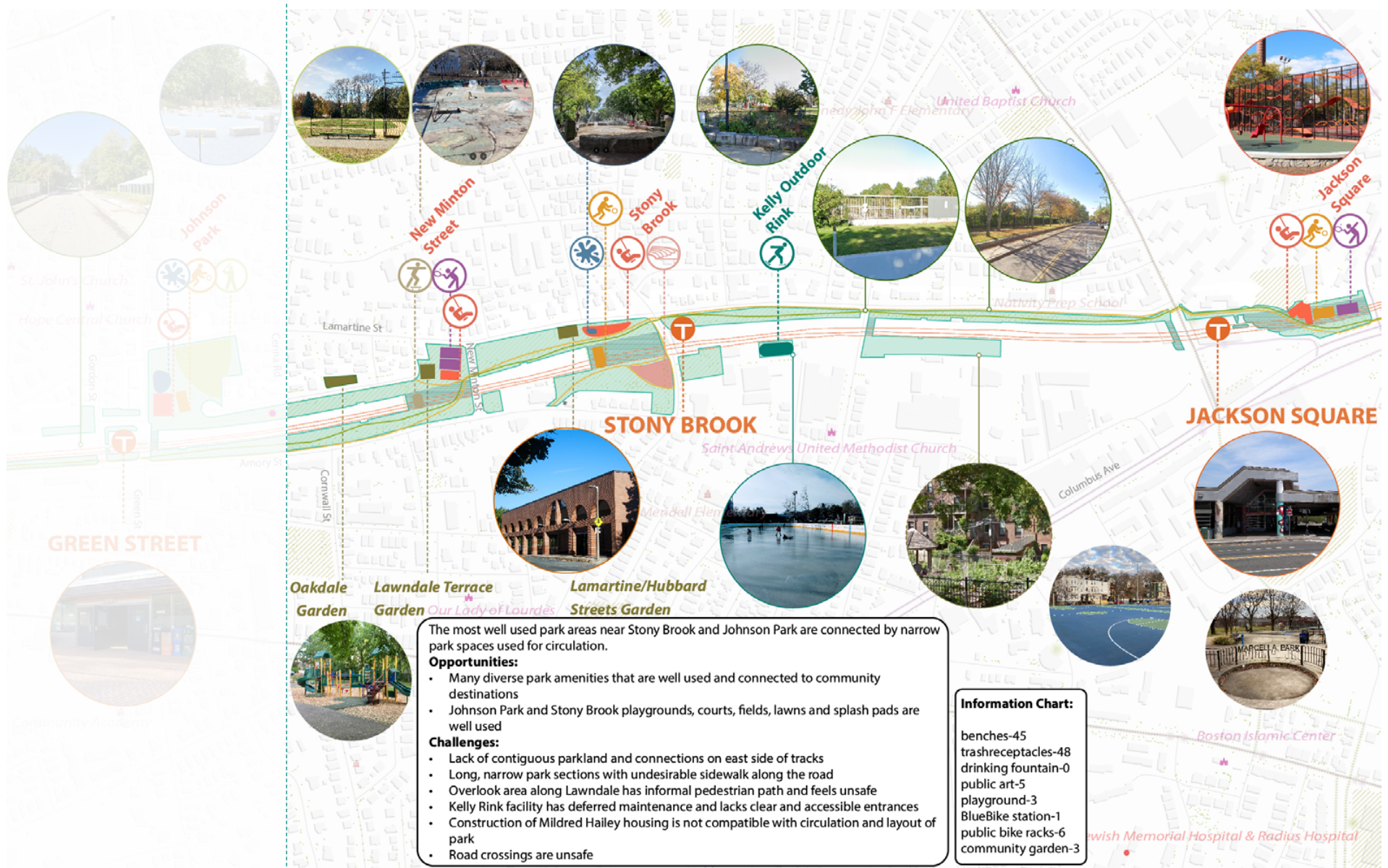
Physical Features

Forest Hills to Green Street



Physical Features

Green Street to Jackson Square



Physical Features

Heath Street to Ruggles



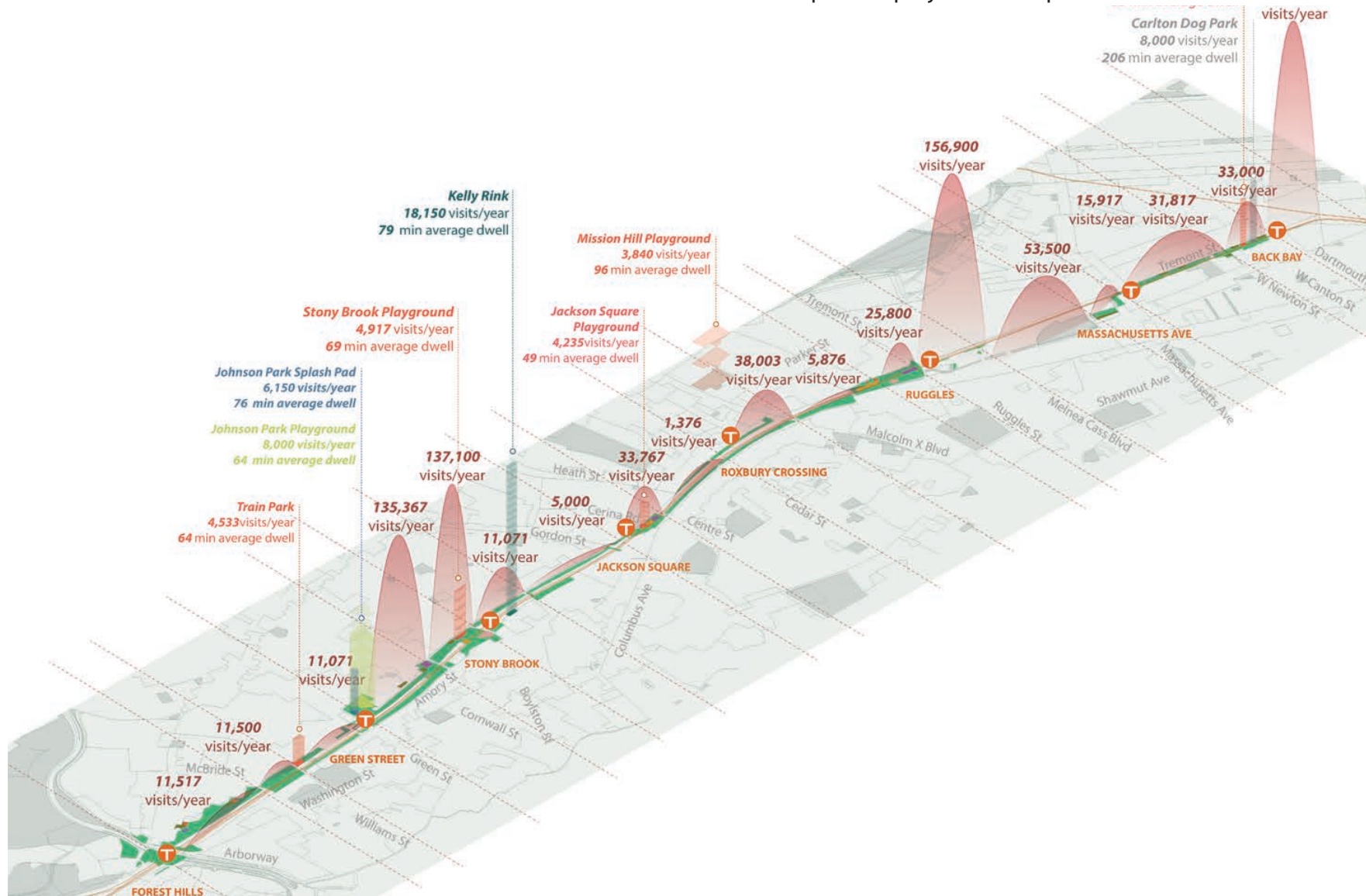
Physical Features

Ruggles to Back Bay



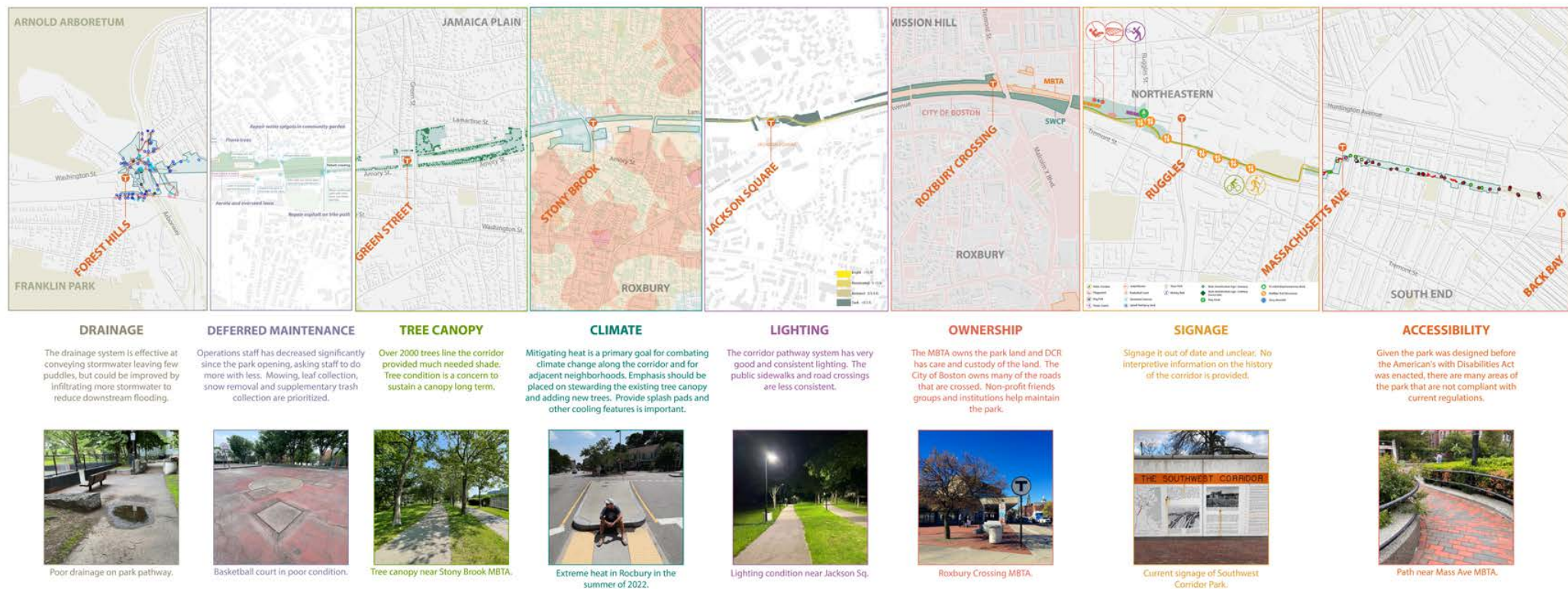
Park Usage

Also utilizing cell phone location data, we can analyze what parts of the park are used more heavily. Use by park segment is noted to the right, summary of usage of park features i.e. playgrounds, courts, etc. is shown on the left. Cell phone location data should be thought of relatively and not in the absolute. Visitation numbers are based on an estimated 10% of cell phones projected to represent 100% of use.



Corridor-wide Topics

Many aspects of the project span the entire corridor effecting all adjacent neighborhoods and park users.



Mobility and Access

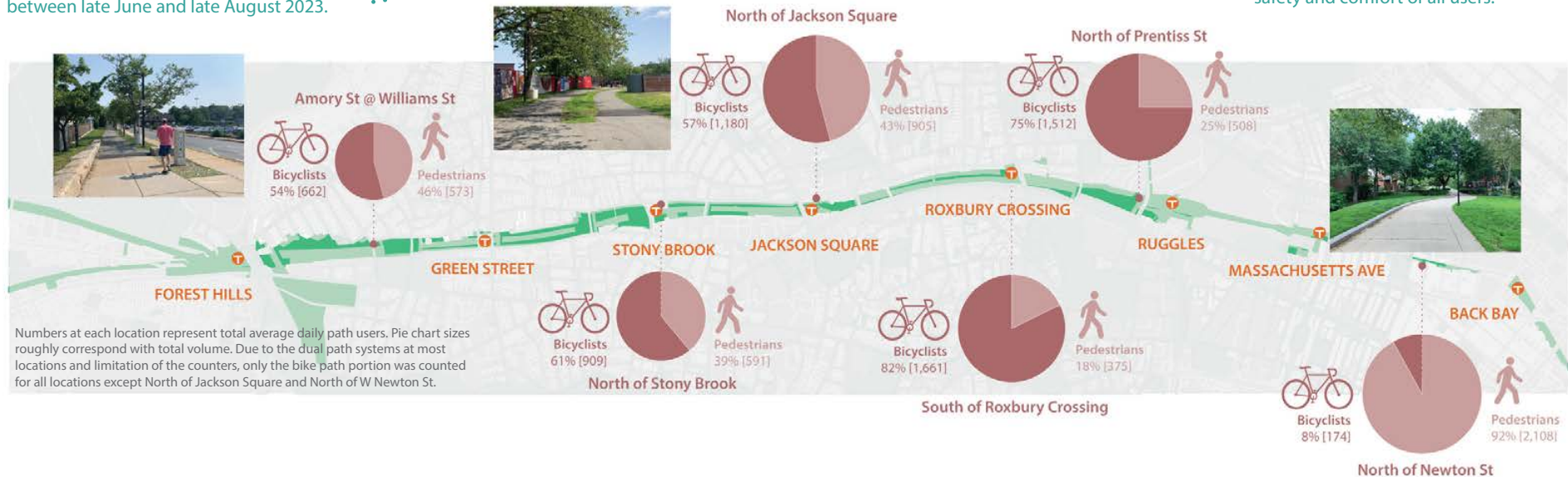
Path Use

The number of path users affects how wide a path should be for comfort and safety. To count path users on the Southwest Corridor, three trail counters were installed across six different locations between late June and late August 2023.

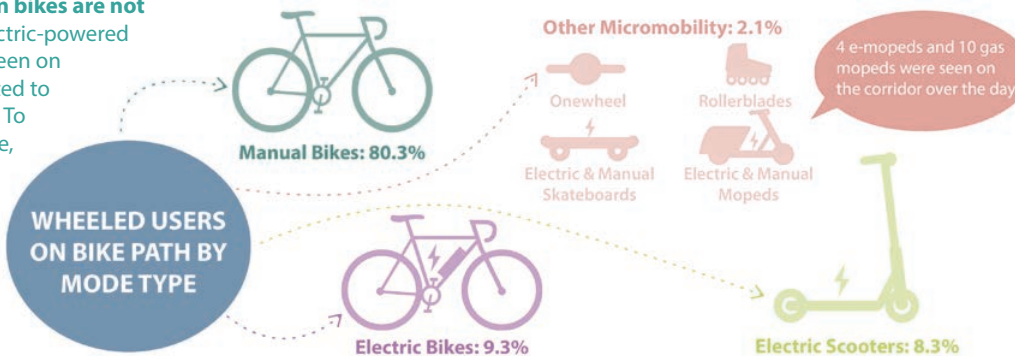
Given the number of pedestrians using the bike path in lieu of the sidewalk, the **existing bike path operates as a shared use path.**

The path ranges from **8 to 10 feet wide, which is insufficient** for a shared use path with the volume and mode split of users counted.

In most locations, the volume of people walking and biking also calls for the **separation of modes on parallel paths** for the safety and comfort of all users.



Pedestrians & people on bikes are not the only path users. Electric-powered modes are increasingly seen on the SWCP and are expected to drive growth in path use. To gain a fuller picture of use, a manual 12-hour count of all wheeled users on the bike path was conducted in fall 2023.



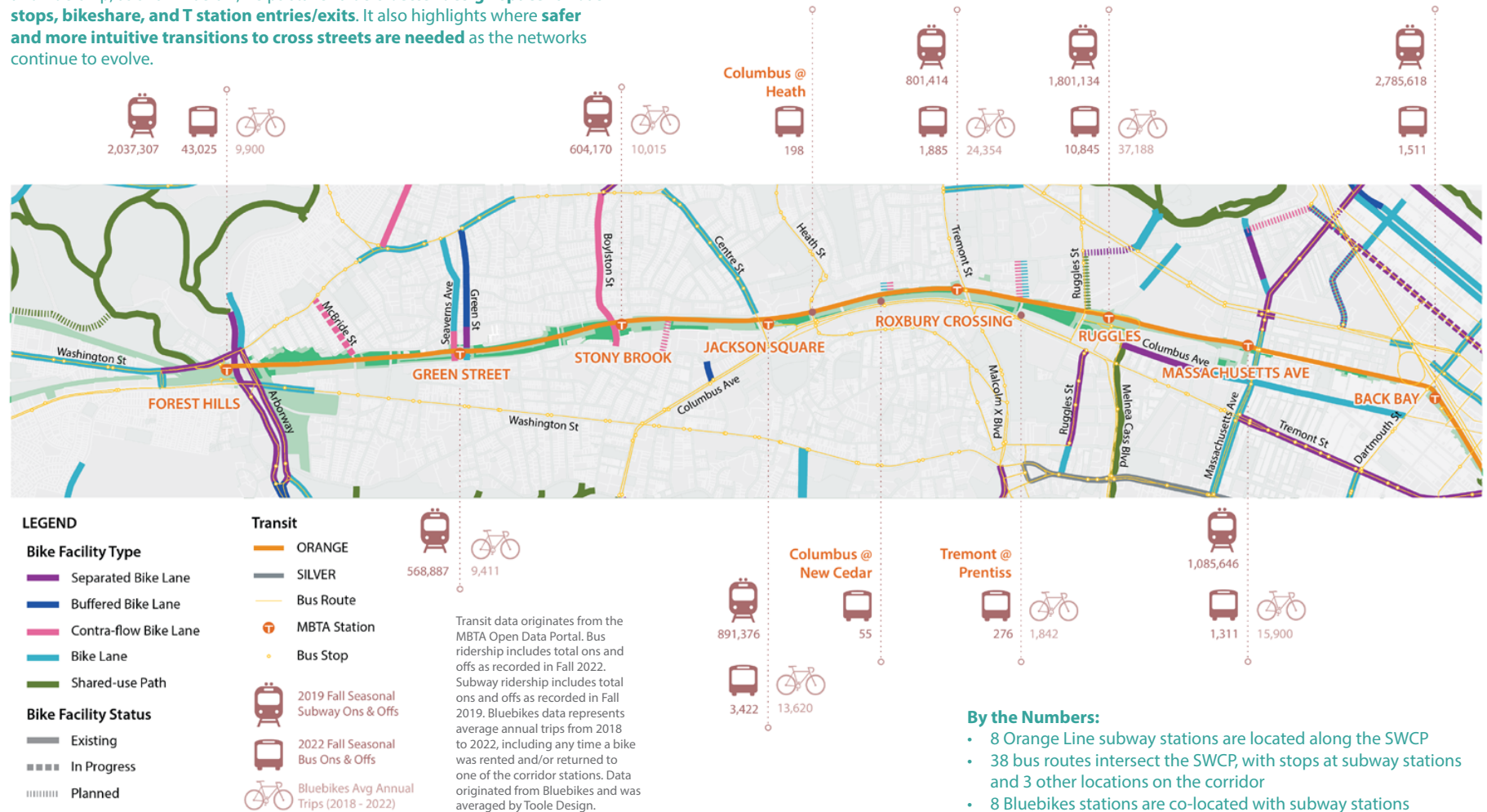
After manual bikes, people on e-bikes and e-scooters made up most path users. Some mopeds were also observed, which are prohibited on the corridor.

Knowing the range of use allows us to design a better path and parking for different modes, plus determine how best to manage the trail.

Mobility and Access

Network Connections & Ridership

The SWCP is a primary commuting and recreational corridor. Understanding use and ridership, as shown below, helps stakeholders **better design space for bus stops, bikeshare, and T station entries/exits**. It also highlights where **safer and more intuitive transitions to cross streets are needed** as the networks continue to evolve.



Mobility and Access

Destinations

The **Southwest Corridor Park** connects people walking, riding bikes, and taking **micromobility** to many destinations, including housing, healthcare, groceries, shops, libraries, schools, and more. The map below shows land use and destinations within approximately a quarter mile - about a 5 minute walk - from the corridor. The large open spaces of the Emerald Necklace are also major destinations located near the Southwest Corridor.

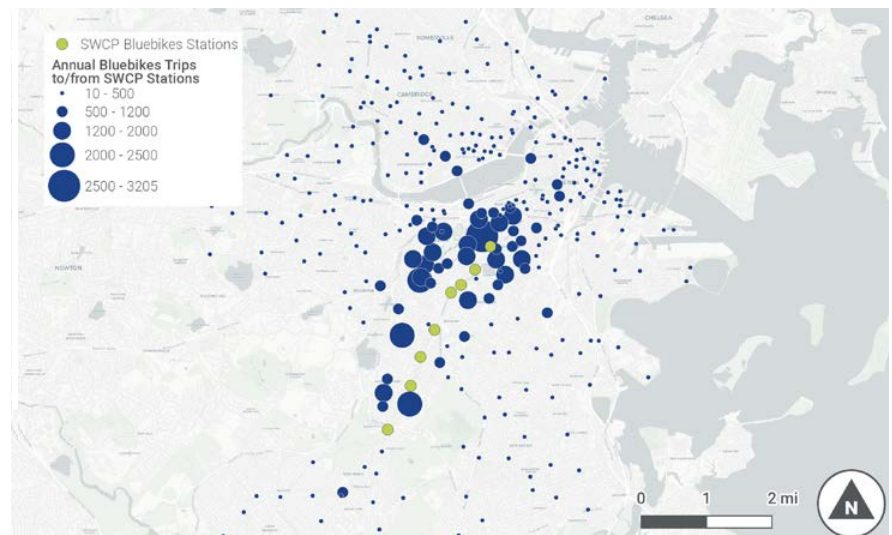


LEGEND

- Commercial
- Mixed-Use
- Boston Housing Authority
- Long-Term Care Facility
- Small-Scale Retail
- Health Care
- Library
- Supermarket
- Schools
- Community Health Center

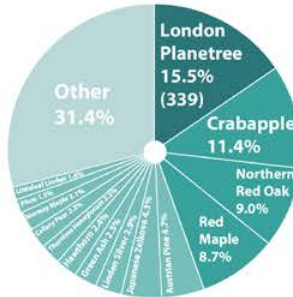
People use Bluebikes stations on the SWCP to access Greater Boston.

The map at right shows the relative number of Bluebikes trips starting from and/or ending at Bluebikes stations along the Southwest Corridor Park. Station pairs close to the park are the most popular, but other well-traveled origins and/or destinations can be seen in Mattapan, Hyde Park, Oak Square, Brookline, Cambridge, and Somerville.

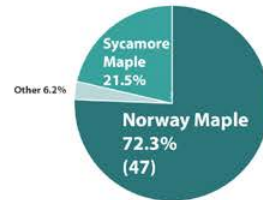


Natural Resources- Trees

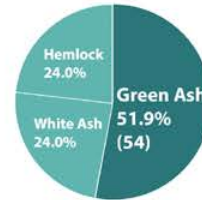
**SPECIES COMPOSITION
OF 2098 TREES**



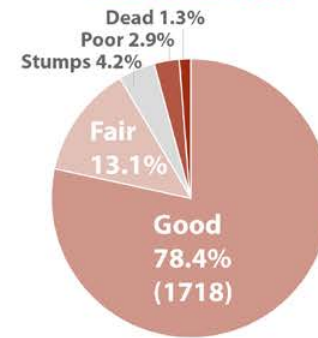
**INVASIVE SPECIES
2.8% (65) OF THE TOTAL**



**SPECIES WITH PEST AND DISEASE CONCERN
4.7% (104) OF THE TOTAL**



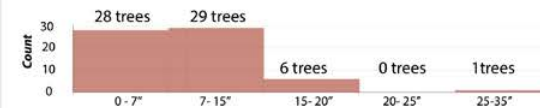
TREE CONDITION



99 TREE SPECIES

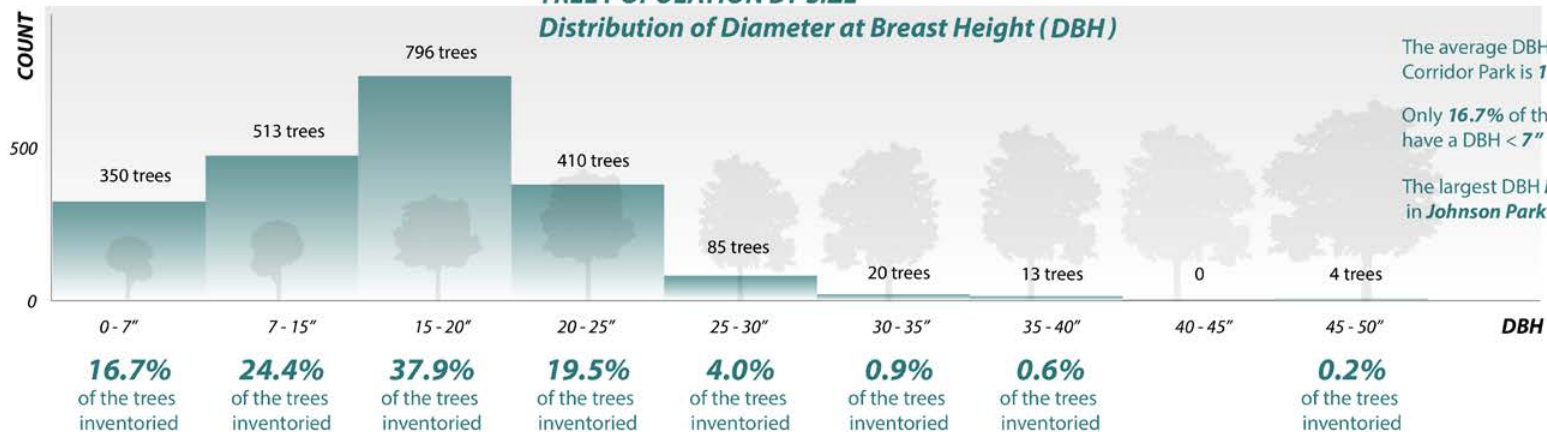
Planetree, London 15.5% (339)	Linden, Silver 2.9% (64)	Redcedar, Eastern 0.7% (16)	Hornbeam, Japanese 0.4% (9)	Pine, Japanese White 0.1% (3)	Cherry, Black 0.1% (2)	Magnolia, Star 0.0% (1)
Crabapple 11.4% (249)	Ash, Green 2.5% (54)	Spruce, Blue 0.7% (16)	False Cypress, Sawara 0.4% (8)	Serviceberry, Eastern 0.1% (3)	Cottonwood, Eastern 0.1% (2)	Maple, Hedge 0.0% (1)
Oak, Northern Red 9.0% (197)	Hawthorn 2.4% (53)	Maple, Sycamore 0.6% (14)	Mulberry, White 0.4% (8)	Sumac, Skunkbush 0.1% (3)	False Cypress, Hinoki 0.1% (2)	Mulberry, Paper 0.0% (1)
Maple, Red 8.7% (190)	Honeylocust, Thornless 2.3% (50)	Dogwood, Kousa 0.5% (12)	Oak, Black 0.4% (8)	Sweetbay 0.1% (3)	Goldenrain Tree 0.1% (2)	Pawpaw 0.0% (1)
Pine, Austrian 4.7% (104)	Pear, Callery 2.2% (49)	Katsura Tree 0.5% (11)	Peach 0.3% (7)	Yew 0.1% (3)	Larch, European 0.1% (2)	Pear 0.0% (1)
Zelkova, Japanese 4.3% (95)	Maple, Norway 2.1% (47)	Spruce, White 0.5% (11)	Cedar, Northern White 0.3% (6)	Buckeye, Red 0.1% (2)	Mulberry, Red 0.1% (2)	Pine, Japanese Umbrella 0.0% (1)
	Plum 1.5% (32)	Dogwood, Flowering 0.4% (9)	Cherry, Japanese Flowering 0.3% (6)	Cedar, Atlas 0.1% (2)	Olive, Autumn 0.1% (2)	Pine, Red 0.0% (1)
	Spruce, Serbian 1.0% (23)	Elm, American 0.3% (6)	Maple, Freeman 0.2% (4)	Willow, White 0.1% (2)	Fir, Blue Chinese 0.0% (1)	Pine, Sweet Mountain 0.0% (1)
	Ginkgo 1.3% (28)	Lilac, Japanese Tree 0.3% (6)	Beech, European 0.1% (3)	Birch, European White 0.0% (1)	Golden Chain/Rain Tree Hybrid 0.0% (1)	Pine, Swiss stone 0.0% (1)
	Ash, White 1.1% (25)	Magnolia, Chinese; Saucer 1.0% (21)	Oak, Sawtooth 0.1% (3)	Birch, River 0.0% (1)	Hackberry, Northern 0.0% (1)	Smoke tree 0.0% (1)
	Hemlock, Eastern 1.1% (25)	Locust, Black 0.9% (19)	Oak, White 0.1% (3)	Cedar, 0.0% (1)	Holly, American 0.0% (1)	Tulip Tree 0.0% (1)
	Redwood, Dawn 1.1% (24)	Cedar, Western Red 0.7% (16)	Linden, Littleleaf 'Greenspire' 0.2% (4)	Chestnut, American 0.0% (1)	Magnolia, Southern 0.0% (1)	Tupelo, Black 0.0% (1)
	Fir, White 1.0% (23)	Maple, Sugar 0.7% (16)				Walnut, Black 0.0% (1)
	Pagodatree, Japanese 1.0% (23)					Yellowwood 0.0% (1)

Distribution of DBH of Poor Condition Trees



TREE POPULATION BY SIZE

Distribution of Diameter at Breast Height (DBH)



The average DBH in Southwest Corridor Park is **13.4"**

Only **16.7%** of the trees have a DBH < 7"

The largest DBH **Northern Red Oak** in **Johnson Park** measures **47.9"**

Cultural Resources- Historical Timeline



**3,000-400 BP
Woodland Period**
Agriculture and pottery begin in this period which, in turn, allows a less nomadic culture



**9,000-3,000 BP
Archaic Period**
First known inhabitation of Charles River watershed



**12,000-10,000 BP
PaleoIndian Period**
Significant sites found in Saugus and Canton but not in Boston

**Native People history
(Pre-European)
(10,000 BP-1500)**



1658
Fulfilling mill in Roxbury



1631
Weir established along Stony Brook
1632
Roxbury meetinghouse constructed



1620
the Mayflower arrives, stating the first northern English settlement in the 'New World'



1524
Giovanni Verrazzano sails north along today's New England coastline

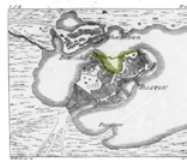
**Contact period & European
settlement (1500-1750)**



1880-1885
Stony Brook culverted



1835
Boston & Providence RR established along Stony Brook from Back Bay to Forest Hills



1819
Railroad tracks laid out across cove



1793
First stagecoach between Boston and Cambridge

**Industrial history
(1750-1914)**



1956
The Federal Highway Act is established under which the Southwest Expressway ballooned to include a five-story interchange in the South End

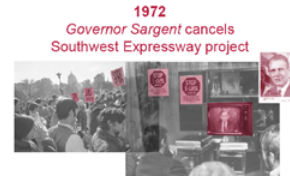


Rapid transit elevated line fosters expansion of neighborhoods along Washington Street from Dudley to Forest Hills



1948
The master highway plan for the Boston metropolitan area which proposes Southwest Expressway

**Neighborhood development
(1915-1960)**



1972
Governor Sargent cancels Southwest Expressway project

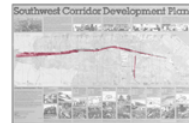
Early 1970
Representative Michael Dukakis submitted a bill for moratorium on highways 80% of the land required for the Southwest Expressway, has been acquired by the City



1969
"People Before highways Day" at State House Mayor White calls for moratorium



1966
The clearing of homes and businesses begins along the highway corridor "Stop the Southwest Expressway" protest



1962
Plans for the Southwest Expressway 2,100 families & 200 business had to be relocated, 823 homes removed

**Highway proposal and protests
(1960-1972)**



2003
MDC and MA DEM merge to form Department of Conservation and Recreation



1990
Southwest Corridor Park opens Metropolitan District Commission (MDC) manages park



1987
new Orange Line opens



1983
South End Landmark District includes the Southwest Corridor as a Protection Area

1978
South Cove Tunnel of Southwest Corridor Rapid Transit under Mass Turnpike



1974
Expressway fund were reallocated to public transit: Relocation of Orange Line; Relocation and extension of Red Line

**Design and development of
Southwest Corridor
(1973-2003)**