

Re-Designing Endicott & Bigelow Streets

Your Streets Designed for All Users

Community Meeting #3

Thursday, May 11, 2023, 5:30 pm

Green Island Neighborhood Center

Introductions - Meet Our Team



- ▶ John Odell, Chief
- ▶ Department of Sustainability & Resilience
- ▶ City of Worcester



- ▶ Gregory J. Baker, Director
- ▶ Neighborhood Development Division
- ▶ City of Worcester



- ▶ Stephen S. Rolle, P.E. Commissioner
- ▶ Department of Transportation and Mobility
- ▶ City of Worcester



- ▶ Todd M. Kirrane, Assistant Director
- ▶ Department of Transportation and Mobility
- ▶ City of Worcester



- ▶ Luba Zhaurova, Director of Projects
- ▶ Department of Sustainability & Resilience
- ▶ City of Worcester



- ▶ Matthew Soule, Senior Project Manager
- ▶ Weston & Sampson

- ▶ Department of Public Works and Parks (Engineering; Parks Division)

Topics to Cover

1. Why This Project?
2. Project Summary
3. Why Green Island Neighborhood?
4. Summary of CDBG Investments in the Neighborhood
5. Why Endicott & Bigelow Streets?
6. What are “Complete Streets?”
7. Complete Streets Re-Design
8. Survey Results
9. Comments and Questions
10. Raffle!

Why this Project?

Why This Project?

1. Safety
2. Sustainability
3. Accessibility
4. Resilience
5. Equity
6. Neighborhood Improvement
7. Template for Future Projects!

Project Summary

Project Summary

- Wider sidewalks on both sides of Endicott Street
- Separate bike path adjacent to sidewalk along Crompton Park
- ADA Compliant
- Improved / safer pedestrian crossings
- Traffic calming bump outs and tabled intersection to reduce speeding
- Environmental elements - increased number of trees for shade/cooling
- Connectivity to surrounding areas and attractions



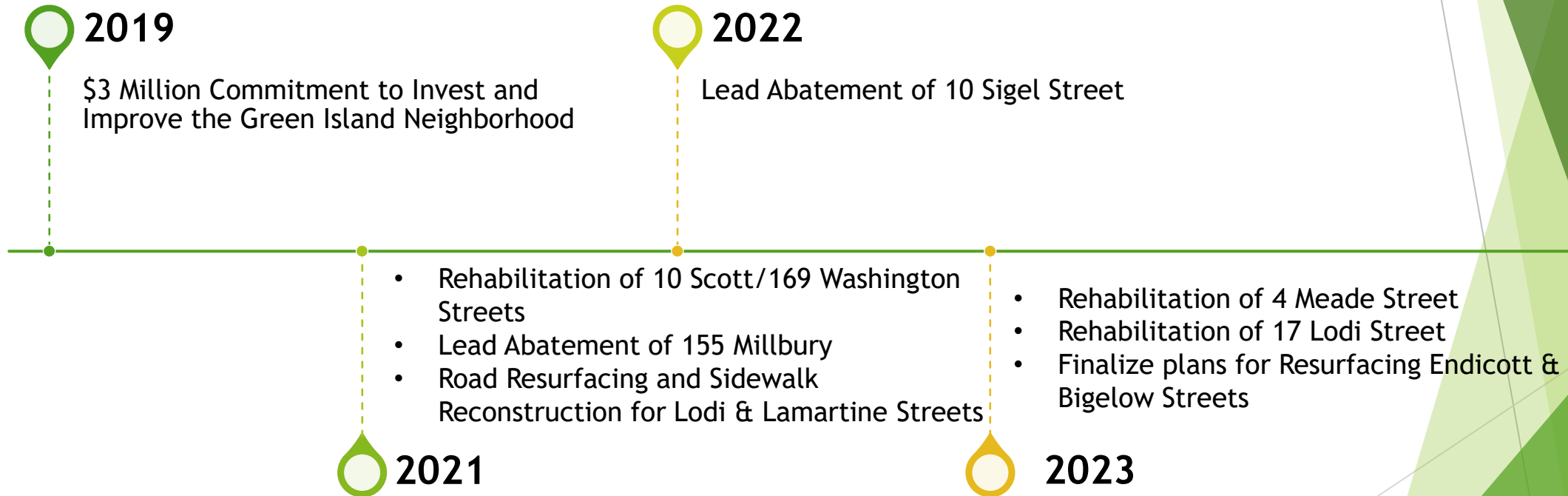
Why Green Island Neighborhood?

Why Green Island Neighborhood?

- Correcting historic disinvestments
- Improve infrastructure
- Bring neighborhood improvements with multiple co-benefits
- Improve resilience to extreme summer heat and flooding caused by intense rain events (trees & green infrastructure)
- Provide safer accommodations for all street and park users - walkers, bikers, wheelchair users, drivers, etc.
- 2019 - \$3 Million Commitment to Invest and Improve the GI Neighborhood during Former City Manager Augustus' Administration
- Special opportunity for this neighborhood to bring more “Green into Green Island”
- *Primary Source of Funds: CDBG (Community Development Block Grant)*

Summary of CDBG Investments in the Neighborhood

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Summary of CDBG Investments in the Neighborhood

Type of Work	Location	CDBG Funding	Completed
Housing Rehabilitation			
	169 Washington Street /	\$ 200,000	2021
	4 Meade Street	\$ 95,000	2023
	17 Lodi Street	\$ 100,000	2023
Lead Abatement			
	155 Millbury St	\$ 6,700	2021
	10 Siegel Street	\$ 14,280	2022
Street Resurfacing & Sidewalk Reconstruction			
	Lodi Street	\$ 99,113	2021
	Lamartine Street	\$ 234,231	2021
		\$ 749,324	

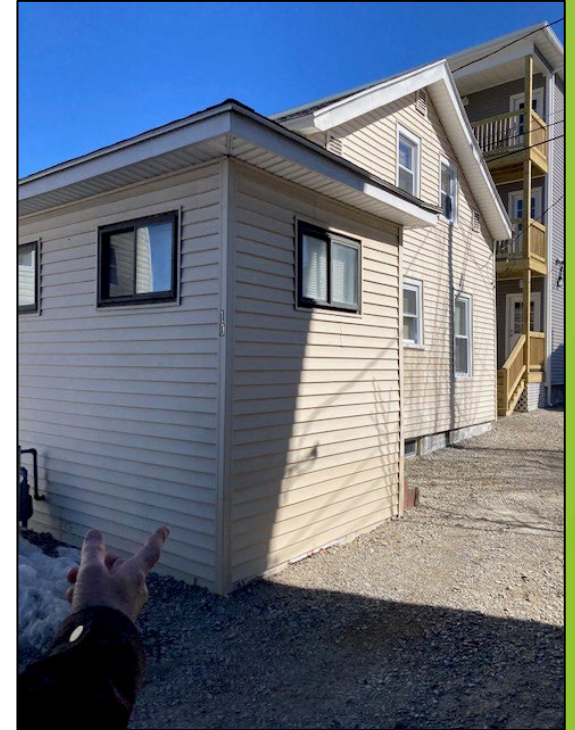
Summary of CDBG Investments in the Neighborhood

► Before



Summary of CDBG Investments in the Neighborhood

► After



Summary of CDBG Investments in the Neighborhood

► Before



Summary of CDBG Investments in the Neighborhood

► After



Why Endicott and Bigelow Streets?

Before



After



Why Endicott & Bigelow Streets?

Infrastructure:

- ▶ Poor pavement condition
- ▶ Vegetation and signage obstructions in sidewalks
- ▶ Deteriorated, narrow sidewalks that are not ADA compliant
- ▶ Excessively wide street (Endicott) with no traffic calming
- ▶ Lack of accommodations for nonmotorized users
- ▶ Deteriorated and limited crosswalk painting

Safety:

- ▶ Need to safely accommodate residents and park users
- ▶ 24 crashes on Endicott St since 2016
- ▶ Crash rate are 4 times the state average for urban local streets
- ▶ 3 of 24 crashes included pedestrians and/or cyclists
- ▶ 14 of 24 crashes since 2016 parking related

Why Endicott & Bigelow Streets?

- Current Conditions

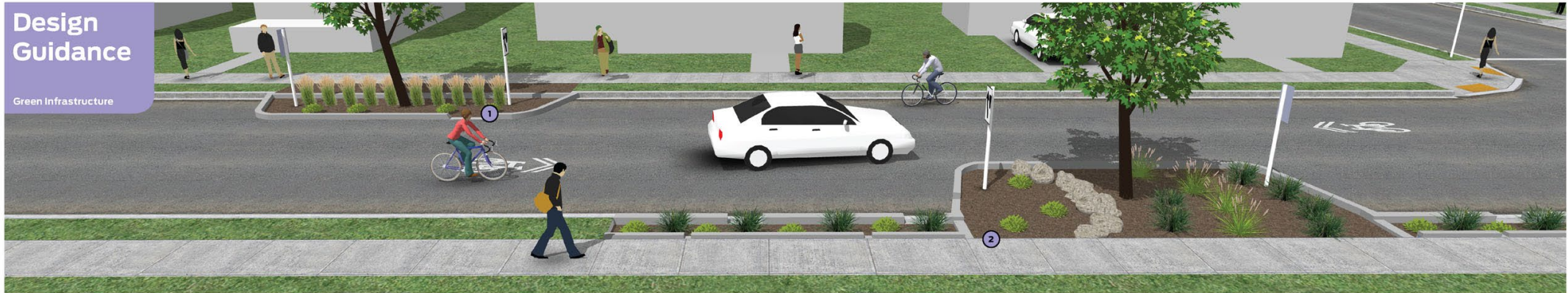


What are “Complete Streets?”

Complete Streets are Green Streets

Design Guidance

Green Infrastructure



Required Features

1 Plantings shall not impede sightlines or block signs or other traffic control devices.

Optional Features

4 Neighborhood associations or community groups may assist with maintenance.

Recommended Features

2 Infiltration basins should drain a storm event within 30 hours and may not be appropriate in areas with high water tables.

3 Some green street features, such as pervious pavers, may not be appropriate along bicycle boulevards.



Chicane BERKELEY, CA



Neighborhood Traffic Circle TUCSON, AZ



Diagonal Diverter PORTLAND, OR



Neckdown PALO ALTO, CA



Curb Extension Bioswale Retrofit PORTLAND, OR



Median Refuge Island DAVIS, CA

What are Complete Streets?

❖ Complete Streets are for all users

- ❖ Complete Streets collectively accommodate all travel modes, including walking, cycling, micro-mobility, motor vehicles, transit, delivery services, and emergency responders.
- ❖ Complete Streets provides for the safe, comfortable and convenient use by people of all ages, economic status and abilities.

❖ Complete Streets benefits:

- ❖ Improve safety for all roadway users
- ❖ Expand travel choices that are accessible to all
- ❖ Health benefits
- ❖ Contributes positively to economic prosperity of neighborhoods
- ❖ Improve the livability of an area by reducing heat island effect and other climate change threats including severe flooding.



Incorporating Complete Streets on Endicott & Bigelow



Incorporating Complete Streets on Endicott & Bigelow

❖ Traffic Calming

- ❖ “Right-size” travel lanes and eliminate excess paved areas
- ❖ Demarcate travel lanes with Lane Markings
- ❖ Curb extensions (“bump outs”) at intersections.
- ❖ Tabled intersection at Endicott and Bigelow St.



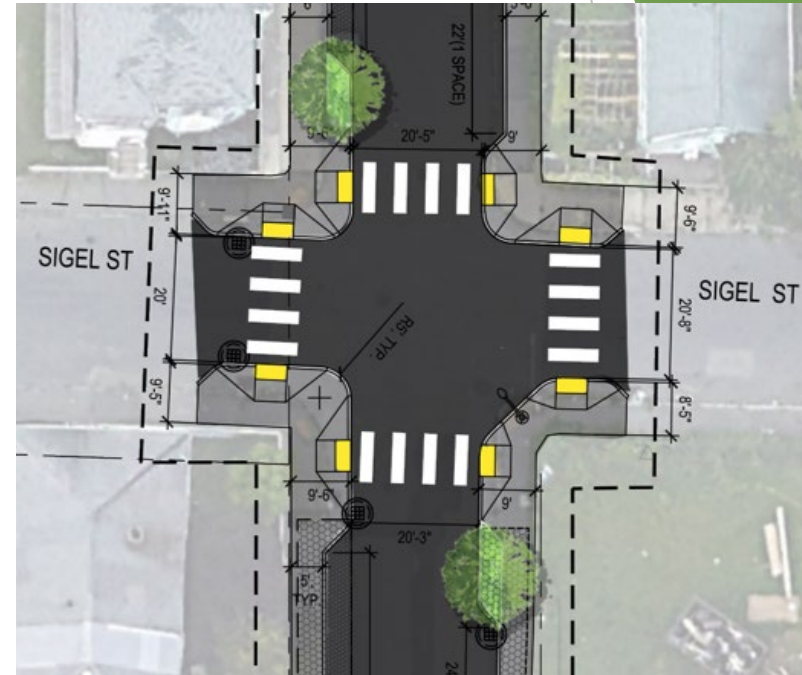
Incorporating Complete Streets on Endicott & Bigelow

❖ Pedestrians

- ❖ Wider & ADA Compliant sidewalks
- ❖ Street trees provide shading and buffers from traffic.
- ❖ Safer Crossings (Shorter, well defined, ADA compliant, raised intersection)

❖ Cyclists & Micro-Mobility Users

- ❖ Dedicated space for riders
- ❖ Safer street crossings



Incorporating Complete Streets on Endicott & Bigelow

▶ Motorists

- ▶ Create better separation from bicyclists and pedestrians
- ▶ Speed management
- ▶ Replace perpendicular parking with safer parallel parking
- ▶ Distribute parking more evenly around the perimeter of Crompton Park
 - ▶ Net gain of five parking spaces in the vicinity of Crompton Park accounting for changes on Harding St

Incorporating Complete Streets on Endicott & Bigelow

On-street Parking Before/After Project

	Before	After
Endicott Street	70	51
Harding Street	15	39
Total	85 spaces	90 spaces

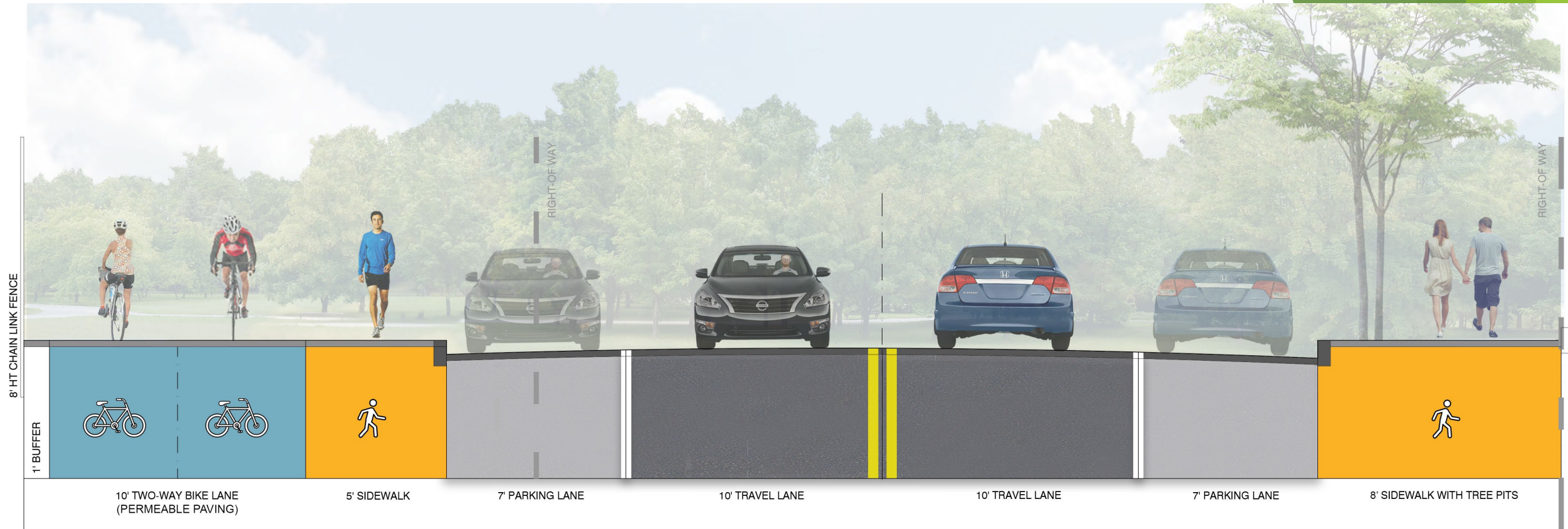
Complete Streets Re-Design

Overall Plan for Endicott Street

Complete Streets Re-Design



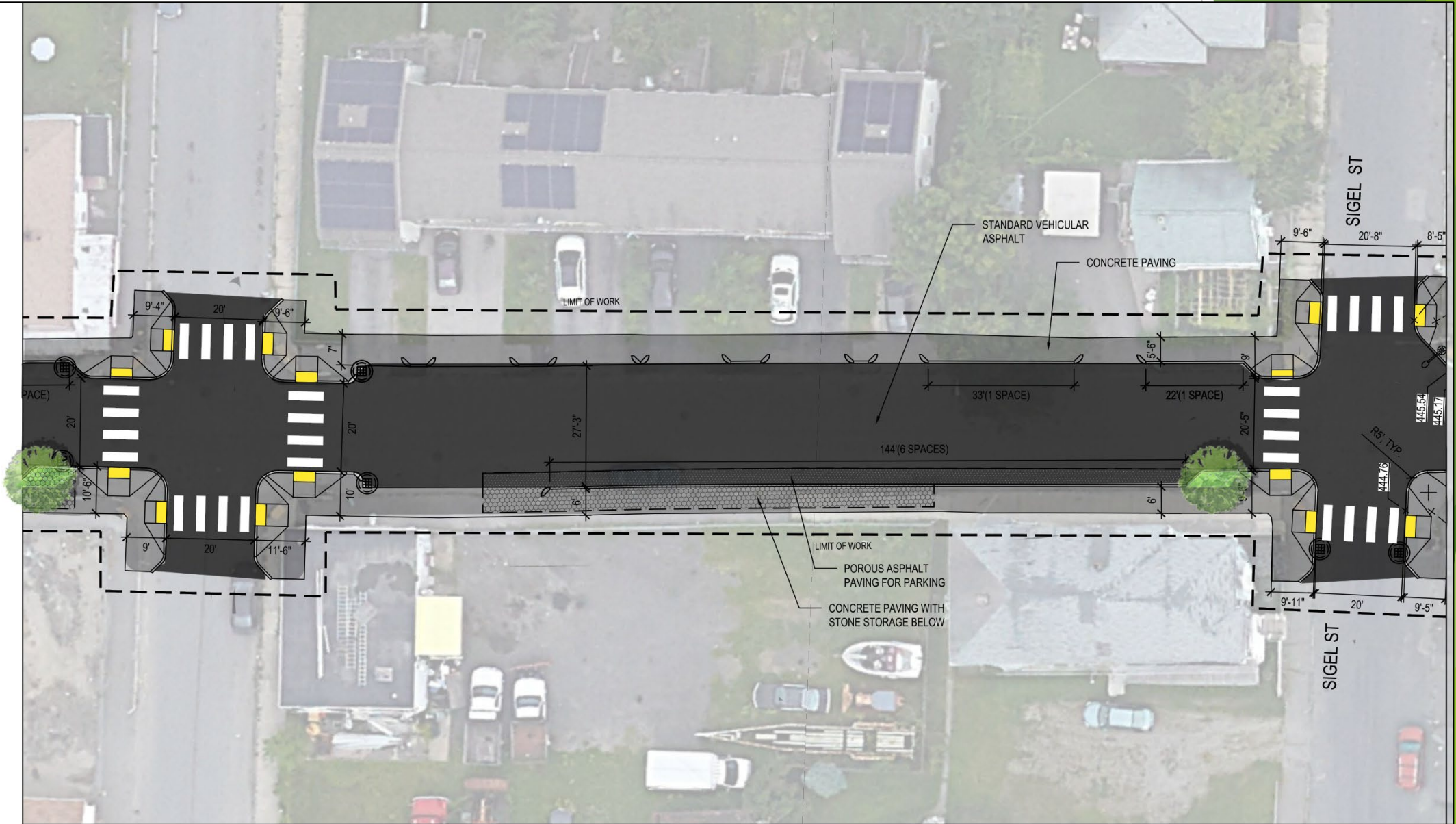
Complete Streets Re-Design



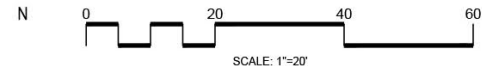
Complete Streets Re-Design

Plan for Bigelow Street

Complete Streets Re-Design



BIGELOW ST - MIDDLE BLOCK PLAN



Complete Streets Re-Design



RIGHT OF WAY



PERMEABLE
PAVING



RIGHT OF WAY

Complete Streets Re-Design

Harding Street

- ▶ Harding Street - switching parallel parking to the opposite side
 - ▶ Improve safety
 - ▶ Increase number of parking spaces, to compensate for loss on Endicott Street
- ▶ Total of 39 spaces, over 3 blocks (25 directly adjacent to the Park)



Complete Streets Re-Design



Complete Streets Re-Design



Stormwater

Conservative estimate - 52% capture of rainfall from a 1 year storm event from pervious pavement and bioswales (not counting trees)

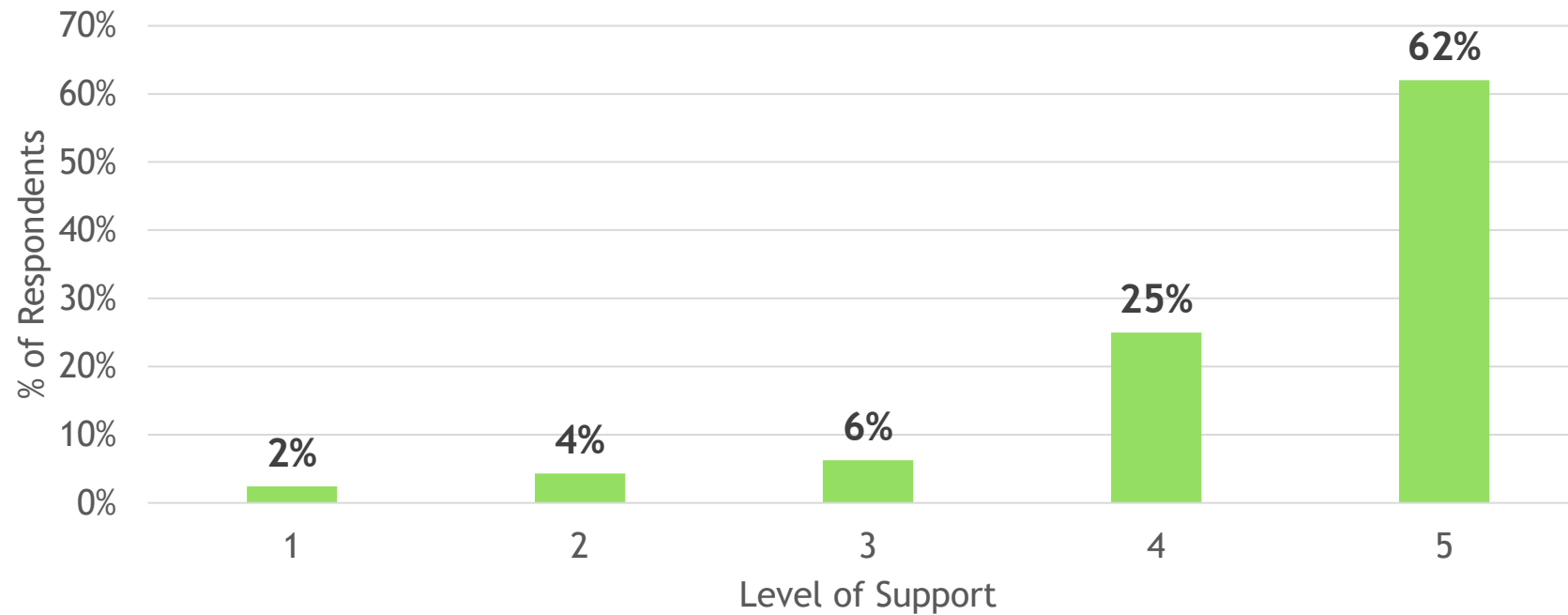
Tree Canopy Increased by 35 trees

- ▶ Bigelow and adjacent streets - 17 new trees
- ▶ Endicott Street - 7 trees removed and 25 new trees proposed
- ▶ Tree Stewards will received training from city staff and community volunteers

Survey Results

Survey Results - Support for Design

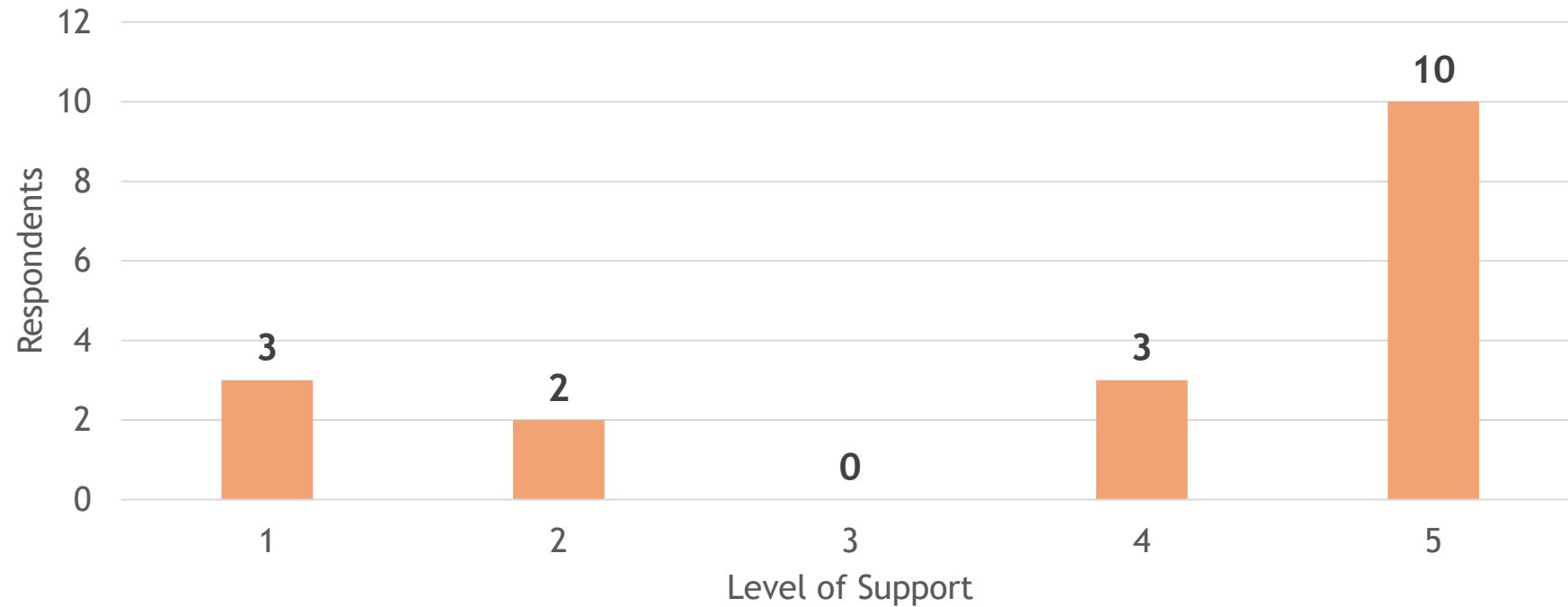
After reading about this project, how much would you say you support the project's design?
[208 Respondents, %]



Project Support - Survey Respondents

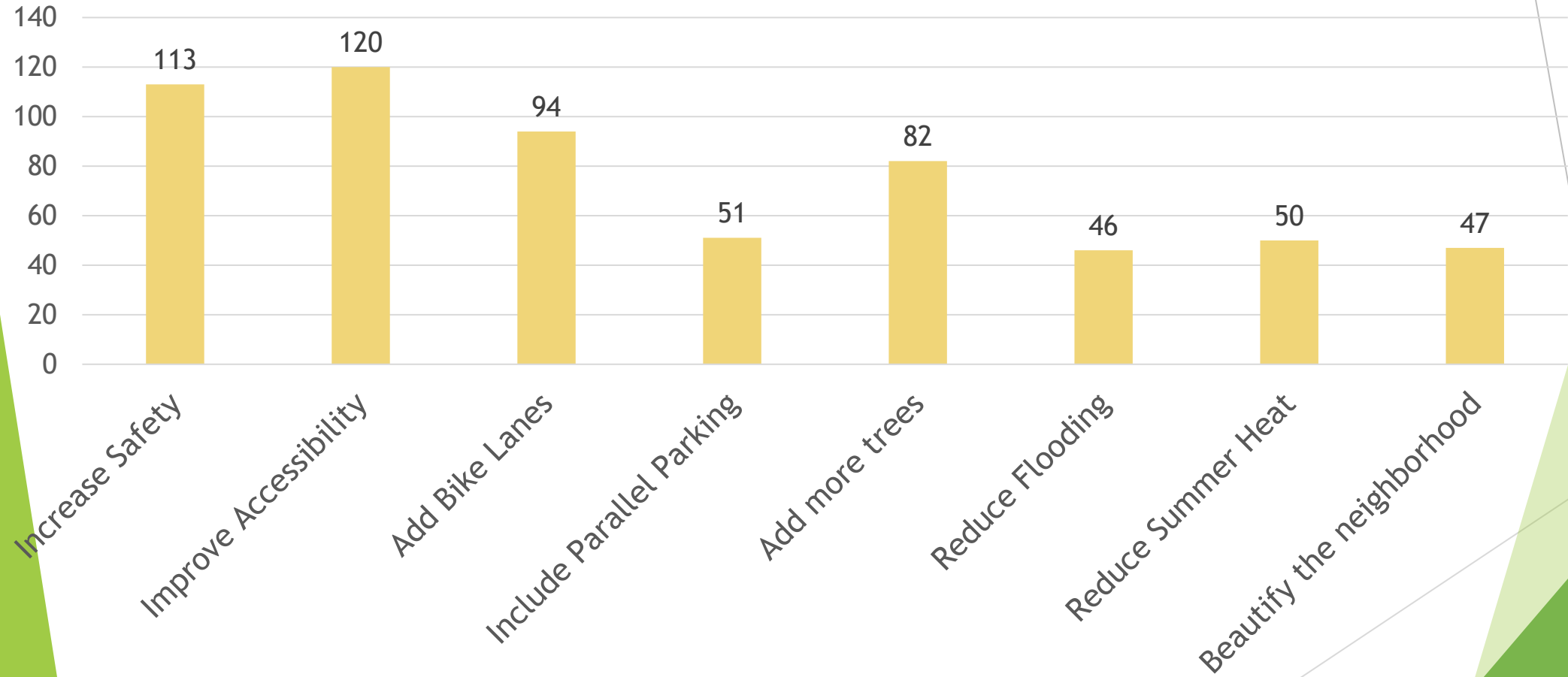
After reading about this project, how much would you say you support the project's design?

[Green Island Respondents, zip code 01610]



Project Support - Survey Benefits

How important are the following benefits to you when streets are redesigned



How can I follow this project's progress?

www.worcesterma.gov/mobility/planning

Comments and Questions

Raffle Winner!