

FY24 STREETS AND SIDEWALKS RECONSTRUCTION BOND REQUEST

Finance Committee

Mayor Katjana Ballantyne

Brian C. Postlewaite, PE

Director of Engineering

06 November 2023



Primary Goals

- Traffic Calming / Safety
 - Bike Lanes
 - Speed Humps
- ADA Accessibility



FY 2024 Proposed Streets

Complete Intersections

Sidewalks

Partial Paving

Complete Intersections (5)

- Cameron Ave. at Tannery Brook
 - raised intersection
- Somerville Ave. at Central St.
 - floating bus stops
 - pedestrian crossing safety
- Bow St. at Walnut St.
 - slow turning traffic speeds
 - new pedestrian crossing
- Broadway at Boston Ave.
 - reconstruct crosswalk to meet ADA
 - slow turning traffic speeds
- Washington St. from Washington Ter.
 - new pedestrian crossing



Sidewalks

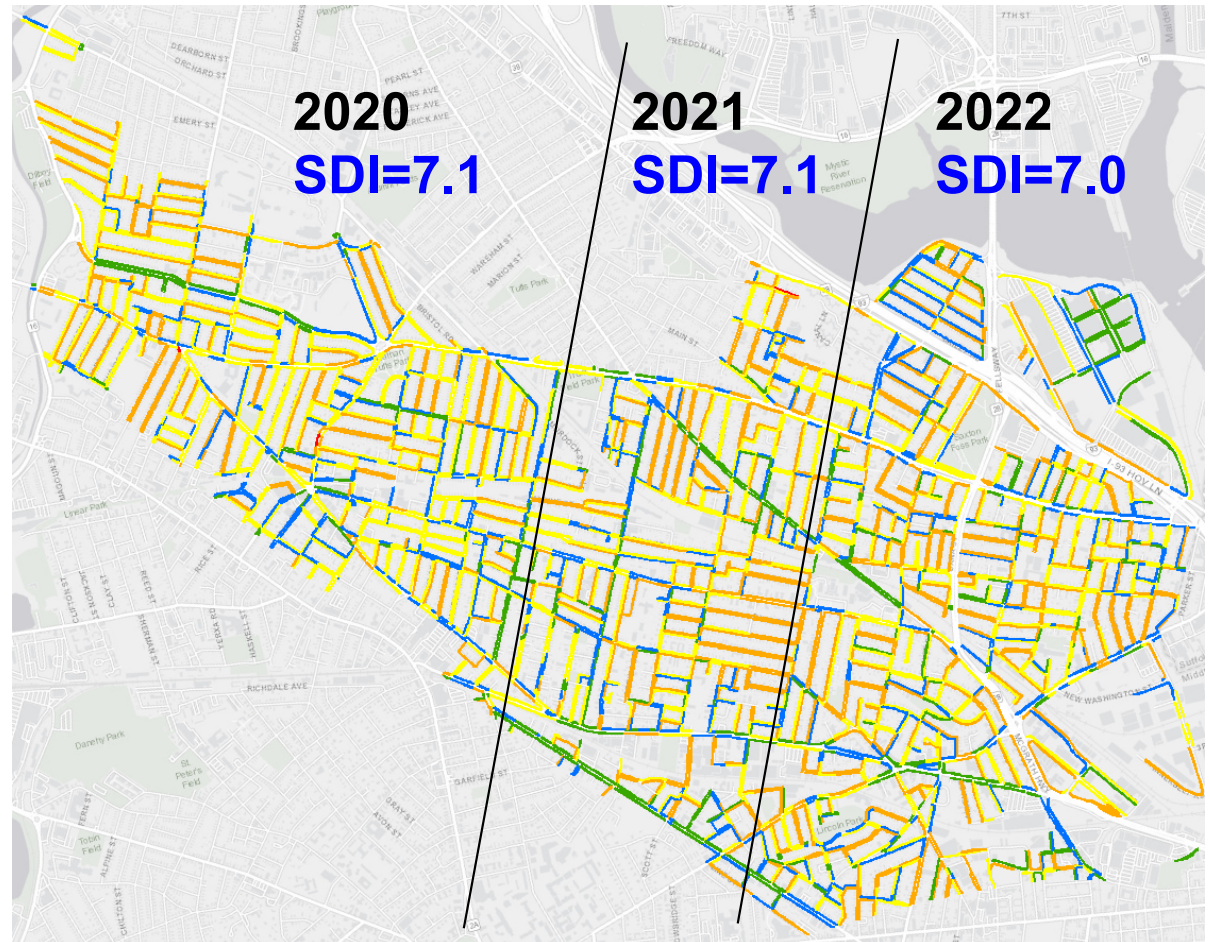
- Construct ADA sidewalks
- Construct ADA crosswalks
- Increase pedestrian safety
- Increase street tree health



Sidewalk Condition Index

SDI Range	Prescribed Activity
9 ≤ SDI ≤ 10	Do-Nothing
8 ≤ SDI < 9	Monitor/Field Inspection
5 ≤ SDI < 8	Develop Maintenance Program
2 ≤ SDI < 5	Develop a Rehabilitation (Combined Maintenance/Replacement) Program
0 ≤ SDI < 2	Develop Replacement Program

**Weighted Average by
sidewalk Area**



Sidewalk Functional Classifications

Priority Factors:

- Schools
- Libraries
- Bus Stops
- Open Space
- Steep Slopes
- Neighborways
- Transit Stations
- Health Facilities
- Neighborhood Services
- Environmental Justice Communities



Sidewalk Prioritization Algorithm

$$\text{NPR} = (0.40 * (100 - \text{SCI})) + (0.60 * \text{SCP})$$

Network Priority Ranking (NPR)

- Sidewalk Condition Index (SCI)
- Sidewalk Classification Priority (SCP)

Route Classification	RCP Value
4 – Business District	100
3– Dense Neighborhood	90
2– Side Street	80
1– Calm Street	70

Partial Paving

- Repave travel way
- Protect roadway investment
- Install speed humps
- Coordinate with sidewalk reconstruction



Partial Paving Prioritization

Partial Paving Prioritization

- Pavement Condition Index (PCI)
- Construction Logistics:
 - municipal utility construction
 - private utility construction
 - coordinate with sidewalk priorities in the same 5-year plan
 - consolidate streets geographically.

FY 2024 Funding

FY 2024 Proposed Funding

Complete Intersections	\$1,250,000	5 Complete Intersections
Sidewalk Only	\$2,715,440	Pedestrian ADA & Safety Improvements
Partial Paving	\$2,715,440	Includes Speed Humps & Temporary Highland Ave. Partial Paving (\$375,000)
Full Street	\$1,000,000	Sidewalk + Partial Paving
Total	\$7,680,881	
Chapter 90	\$1,219,113	No increase in state funding (no Council action required)
FY 2024 General Fund	\$900,000	Approved in FY2024 City Budget
FY 2024 City Bond	\$5,561,768	Funding Authorization Request for this year.

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