Route 39 Transit Priority Corridor Project

Evaluated Concepts

City of Boston Transportation

Evaluation Criteria

Reach	How many riders will be impacted by this concept? Concepts that improve service where many riders are on the bus, at high ridership stops, or at stops with high transfer activity should be prioritized.
Safety	Does the concept improve safety, particularly at high crash locations?
Accessibility & Passenger Experience	Does the concept improve access to or at the stop for riders boarding or alighting? Does the concept improve the passenger waiting experience?
Reliability & Time Savings	Does this concept help reduce delay and/or increase reliability, especially where many riders are on the bus?

STRATEGY TYPES

BUS LANE/
QUEUE JUMP

Bus lanes decrease delay and improve reliability and have already improved Route 39 service along Huntington Avenue. **Queue jumps** reduce transit delay by allowing buses to bypass queues at signalized intersections.

TRANSIT SIGNAL
PRIORITY

Transit Signal Priority (TSP) gives special treatment to buses at signalized intersections and can either give the bus a head start in front of general traffic, extend a green light, or shorten a red light.

CONSOLIDATE/
MOVE STOP

Consolidating closely spaced stops can increase speed and reliability with little to no impact on pedestrian walk times. **Relocating stops** to far side can reduce intersection delay and increase pedestrian safety due to increased visibility.

BUS STOP
CURB EXTENSION

Bus stop curb extensions extend the curb of a bus stop to be in line with the bus travel lane, rather than the parking lane. This allows buses to stop in-lane to pick up riders, increasing access, safety, and reliability.

PEDESTRIAN
IMRPOVEMENTS

Pedestrian improvements like daylighting (which improve visibility), closing slip lanes (which reduce high vehicle speeds), and sidewalk, crosswalk, and curb improvements make walking to and from the bus safer and more accessible.

ADD SHELTER

Adding shelters based on MBTA ridership threshold improves the rider experience while waiting for the bus.
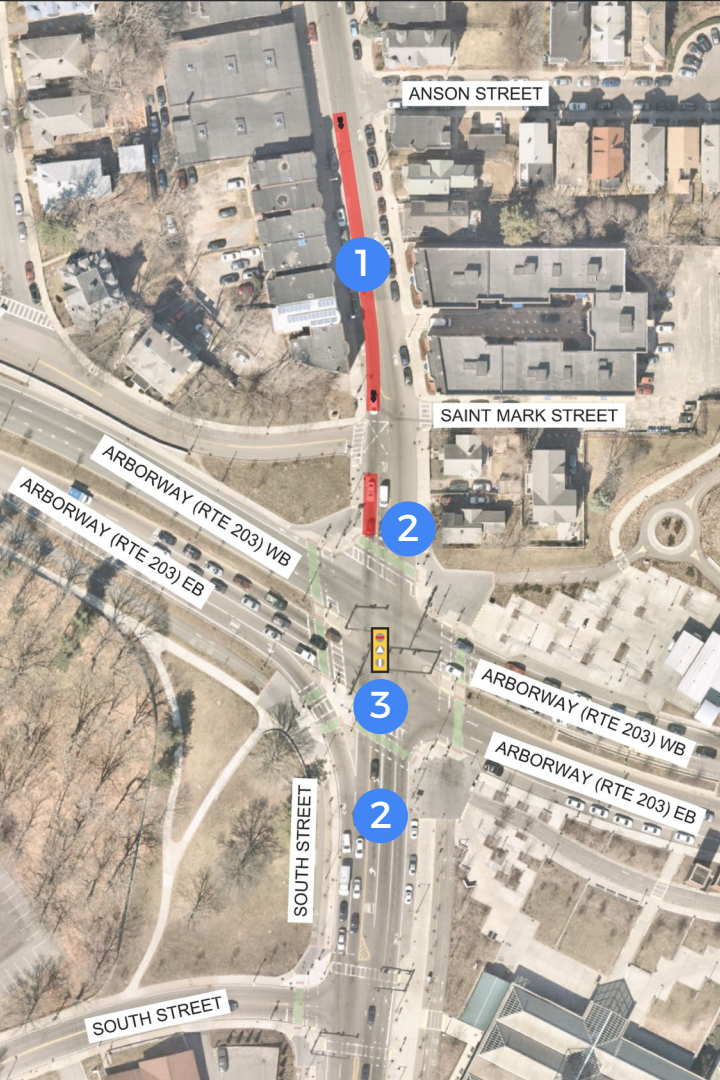
1-1 Arborway @ South St

Inbound ●
Outbound ●

1. Install bus bike lane

2. Reconfigure turning lanes

3. Implement transit signal priority

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

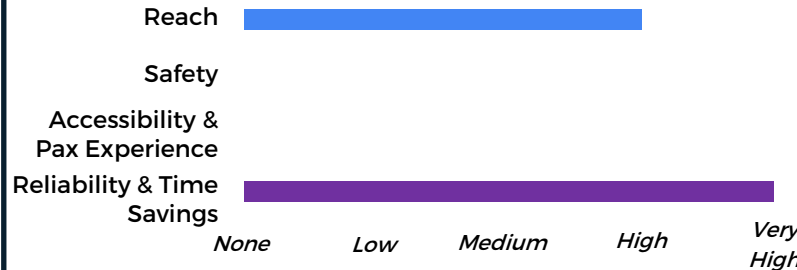Consolidate/ Move Stop

Curb Extension

Pedestrian Improvements

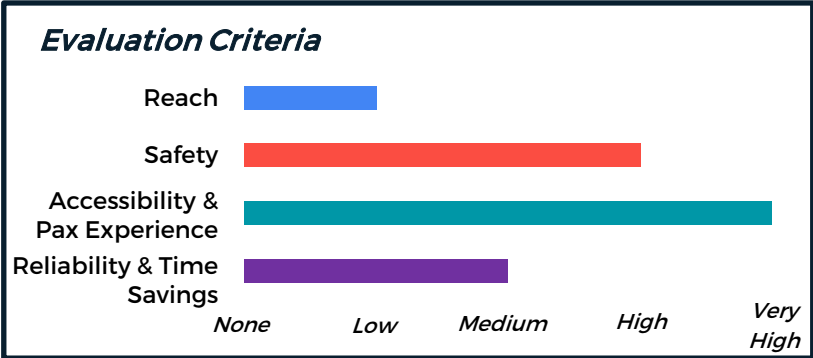Add/Improve Shelter

Evaluation Criteria

	None	Low	Medium	High	Very High
Reach					
Safety					
Accessibility & Pax Experience					
Reliability & Time Savings					

1-2 South St @ Rosemary St

1. Relocate inbound bus stop at Spalding St to Rosemary St farside

2. Install curb extension

3. Install shelter

4. Install curb extension and curb ramp
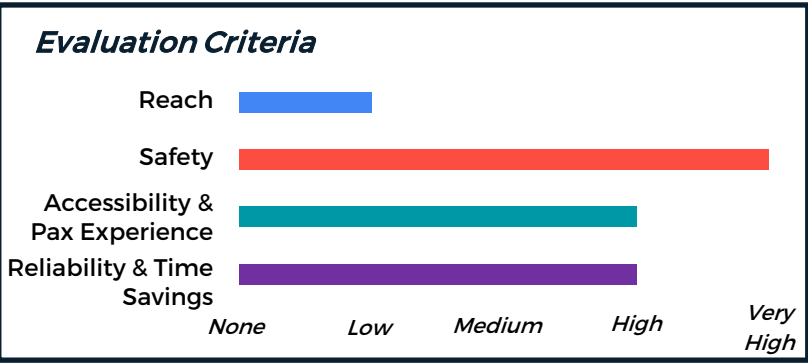
Improvement Strategies

Bus Lane/ Queue Jump	Transit Signal Priority
Consolidate/ Move Stop	Curb Extension
Pedestrian Improvements	Add/Improve Shelter

Evaluation Criteria

Reach

Safety

Accessibility & Pax Experience

Reliability & Time Savings

None   Low   Medium   High   Very High

1-3 South St @ Jamaica St

1. Remove parking for queue jump lane
2. Relocate crosswalk and curb ramps
3. Install daylighting and flexposts
4. Implement transit signal priority

Evaluation Criteria

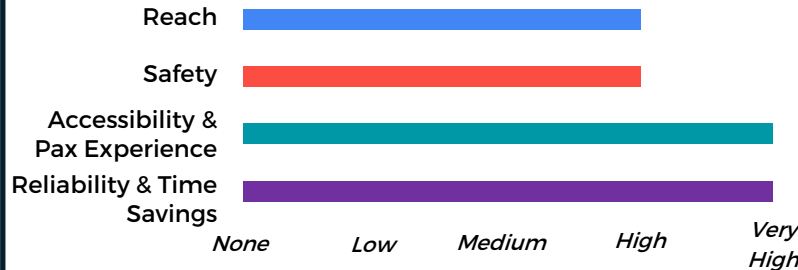| Criteria	Rating
Reach	Low–Medium
Safety	Very High
Accessibility & Pax Experience	High
Reliability & Time Savings	High

None | Low | Medium | High | Very High

Improvement Strategies

Bus Lane/ Queue Jump — ONLY BUS

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension

Pedestrian Improvements

Add/Improve Shelter

1-4 South St @ Carolina Ave

Inbound ●
Outbound ●

1 Implement transit signal priority

2 Implement curb extensions at restriped crosswalks

CAROLINA AVENUE
CUSTER STREET
SOUTH STREET
ATWOOD SQUARE

Evaluation Criteria

Reach
Safety
Accessibility & Pax Experience
Reliability & Time Savings

None | Low | Medium | High | Very High

Improvement Strategies

Bus Lane/ Queue Jump
Transit Signal Priority
Consolidate/ Move Stop
Curb Extension
Pedestrian Improvements
Add/Improve Shelter

1-5 South Street / Centre Street from Bardwell to Elliot

Inbound ●
Outbound ●

1. Create shared bus and bike lane

2. Consolidate outbound stops to Monument Square

3. Implement transit signal priority

4. Add a floating bus stop (with bike lane) and shelter

5. Implement loading zone

Evaluation Criteria

Criteria	Rating
Reach	High
Safety	High
Accessibility & Pax Experience	Very High
Reliability & Time Savings	Very High

None — Low — Medium — High — Very High

Improvement Strategies

Bus Lane / Queue Jump

Transit Signal Priority

Consolidate / Move Stop

Curb Extension
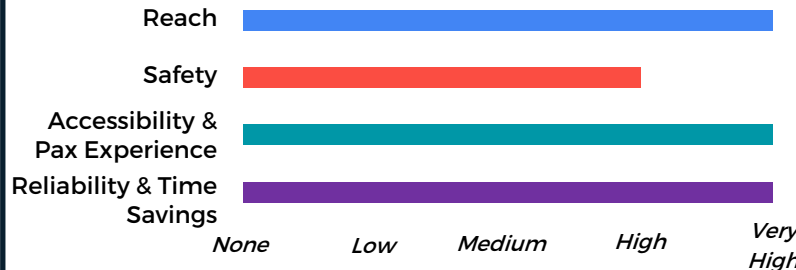
Pedestrian Improvements

Add / Improve Shelter
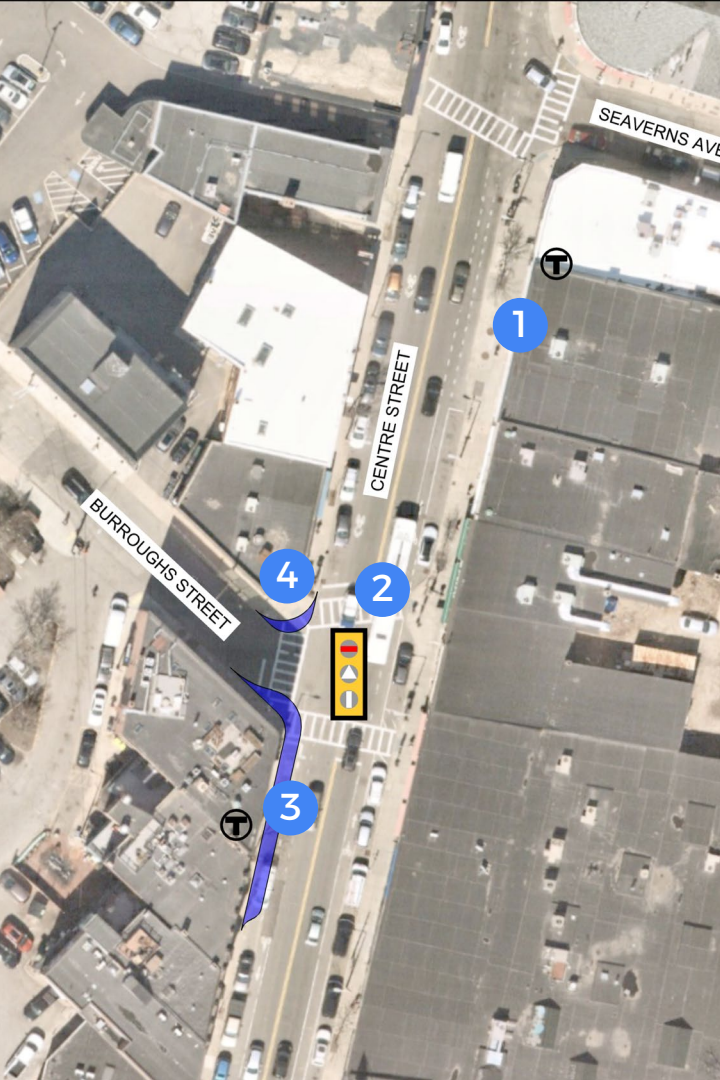
1-6 Centre Street @ Borroughs & Seaverns

Inbound ●
Outbound ●

1. Install inbound bus shelter
2. Implement transit signal priority
3. Create outbound curb extension
4. Install new curb ramps

Evaluation Criteria

Criteria	Rating
Reach	Very High
Safety	High
Accessibility & Pax Experience	Very High
Reliability & Time Savings	Very High

Scale: None — Low — Medium — High — Very High

Improvement Strategies

Bus Lane/Queue Jump — ONLY BUS

Transit Signal Priority

Consolidate/Move Stop

Curb Extension

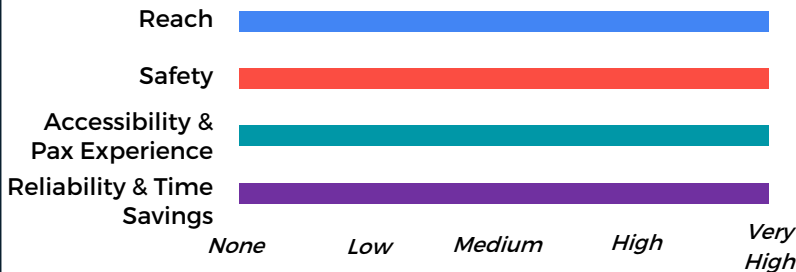Pedestrian Improvements

Add/Improve Shelter

1-7 Centre Street @ Myrtle Street

Inbound ●
Outbound ●

1. Create curb extension

2. Implement transit signal priority

3. Reconstruct curb ramps and straighten crosswalk

Improvement Strategies

Bus Lane/ Queue Jump	Transit Signal Priority
Consolidate/ Move Stop	Curb Extension
Pedestrian Improvements	Add/Improve Shelter

Evaluation Criteria

Reach — Very High

Safety — High

Accessibility & Pax Experience — High

Reliability & Time Savings — High

None   Low   Medium   High   Very High

1-8 Centre Street between Beaufort Rd and Moraine St

Inbound ●
Outbound ●

1 Remove parking to create bus and bike lane

2 Add shelter at inbound stop

Evaluation Criteria

Reach — Medium
Safety — None
Accessibility & Pax Experience — Low
Reliability & Time Savings — High

None | Low | Medium | High | Very High

Improvement Strategies

Bus Lane/ Queue Jump
ONLY BUS

Transit Signal Priority

Consolidate/ Move Stop

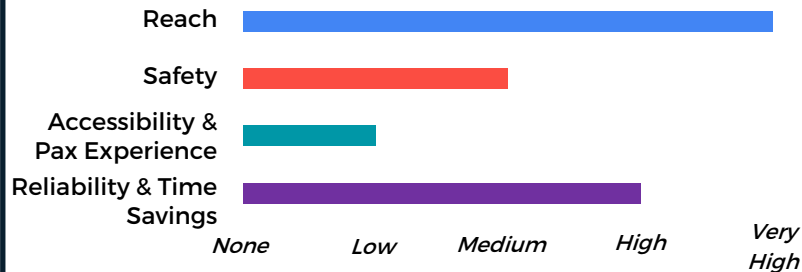Curb Extension

Pedestrian Improvements

Add/Improve Shelter

1 Remove slip lane

2 Implement transit signal priority

3 Revise Moraine Street pedestrian crossing signal phasing to be concurrent with South Huntington Avenue crossing

Evaluation Criteria

Criteria	None	Low	Medium	High	Very High
Reach					
Safety					
Accessibility & Pax Experience					
Reliability & Time Savings					

Improvement Strategies

Bus Lane / Queue Jump

Transit Signal Priority

Consolidate / Move Stop

Curb Extension
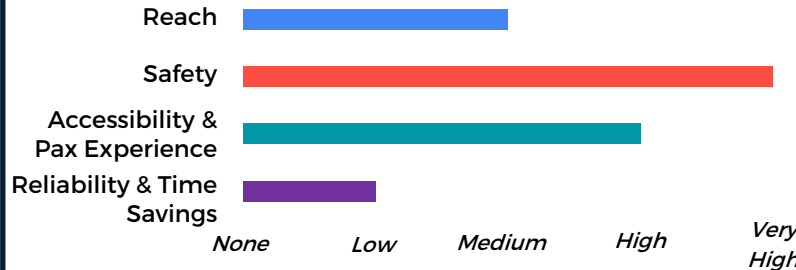
Pedestrian Improvements

Add / Improve Shelter

1-10 South Huntington Ave @ Bynner St

Inbound ●
Outbound ●

1. Implement transit signal priority

2. Reconstruct sidewalk and fill in tree pits

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension
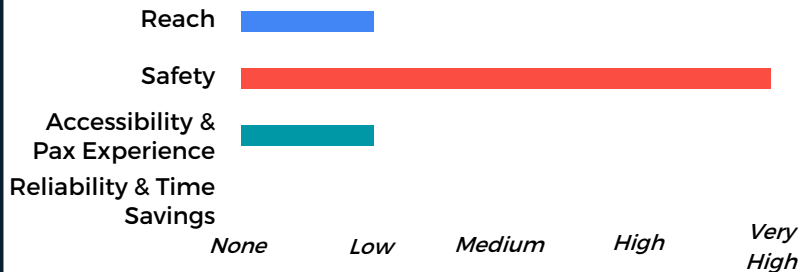
Pedestrian Improvements

Add/Improve Shelter

Evaluation Criteria

Criterion	Rating
Reach	Very High
Safety	Low
Accessibility & Pax Experience	Low
Reliability & Time Savings	High

None — Low — Medium — High — Very High

1-11 Centre St @ Pond St

Inbound ●
Outbound ○

1. Install daylighting

2. Add northbound left turn pocket lane

3. Remove parking on southbound lane

4. Construct new curb ramps and realign crosswalks

Evaluation Criteria

Criteria	Rating
Reach	Medium
Safety	Very High
Accessibility & Pax Experience	High
Reliability & Time Savings	Low

None · Low · Medium · High · Very High

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension
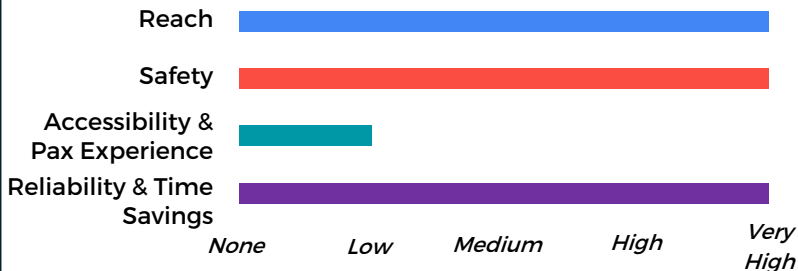
Pedestrian Improvements

Add/Improve Shelter

2-2 Craftson Way @ South Huntington Ave

1 Reconstruct sidewalk and ramp to reduce driveway opening

2 Make Craftson into a one-way

3 Install daylighting on South Huntington

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension

Pedestrian Improvements

Add/Improve Shelter

Evaluation Criteria

Reach

Safety

Accessibility & Pax Experience

Reliability & Time Savings

None | Low | Medium | High | Very High

2-4 Huntington Ave @ Brigham Circle

Inbound ●
Outbound ●

1. Restripe right turn lane as shared bus/bike right turn lane
2. Close slip lane
3. Install "DO NOT BLOCK INTERSECTION" markings
4. Construct curb extensions at Fenwood Road
5. Implement transit signal priority
6. Pedestrian phasing improvements

Evaluation Criteria

Criteria	Rating
Reach	Very High
Safety	Very High
Accessibility & Pax Experience	Low
Reliability & Time Savings	Very High

None — Low — Medium — High — Very High

Improvement Strategies

Bus Lane/ Queue Jump — ONLY BUS

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension

Pedestrian Improvements

Add/Improve Shelter
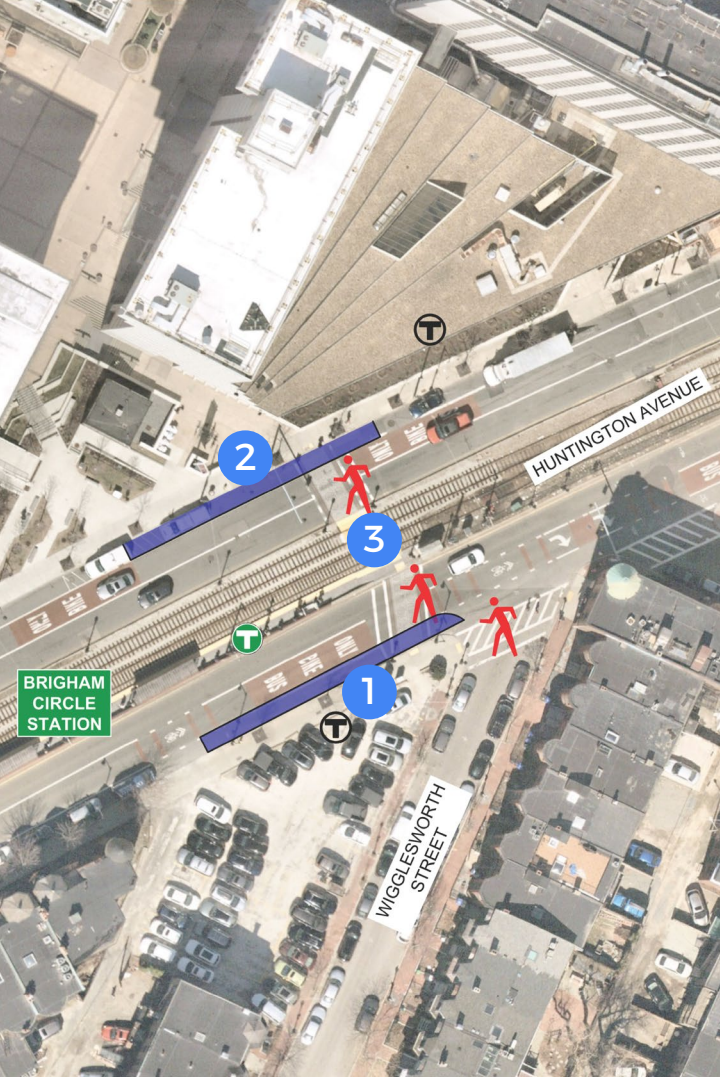
2-5 Wigglesworth St @ Huntington Ave

Inbound ●
Outbound ●

1. Construct inbound curb extension for bus stop

2. Construct outbound curb extension for bus stop with shelter

3. Pedstrian phasing improvements

Evaluation Criteria

	None	Low	Medium	High	Very High
Reach					
Safety					
Accessibility & Pax Experience					
Reliability & Time Savings					

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension

Pedestrian Improvements

Add/Improve Shelter

BRIGHAM CIRCLE STATION

HUNTINGTON AVENUE

WIGGLESWORTH STREET

3-1 Longwood Ave @ Saint Alphonsus Street

1. Close right turn slip lane on to St Alphonsus Street

2. Reconstruct median and intersection

3. Pedestrian phasing improvements

Improvement Strategies

Bus Lane/Queue Jump

Transit Signal Priority

Consolidate/Move Stop

Curb Extension

Pedestrian Improvements
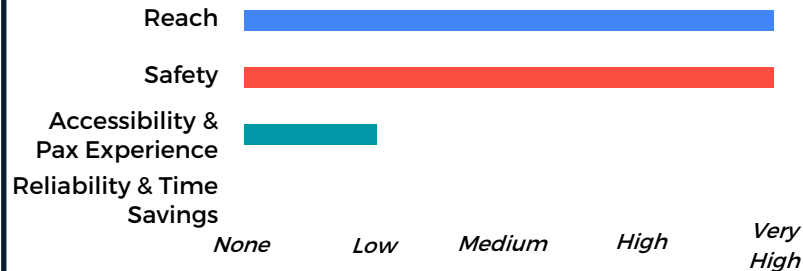
Add/Improve Shelter

Evaluation Criteria

Criteria	Rating
Reach	Very High
Safety	Very High
Accessibility & Pax Experience	Low
Reliability & Time Savings	None

None | Low | Medium | High | Very High

① Construct a bus shelter at Saint Alphonsus Street where sidewalk widens

Evaluation Criteria

	None	Low	Medium	High	Very High
Reach					
Safety					
Accessibility & Pax Experience					
Reliability & Time Savings					

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension

Pedestrian Improvements

Add/Improve Shelter

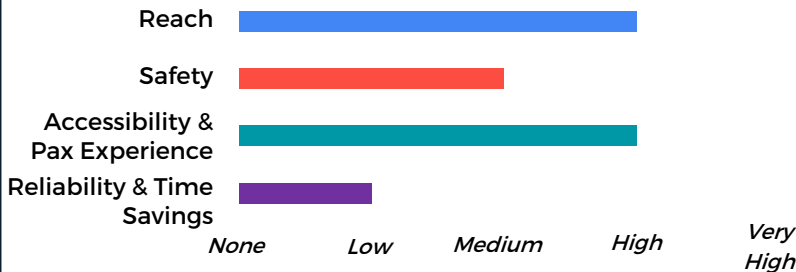# 3-3 Huntington Ave @ Forsyth Way

Inbound ○
Outbound ●

1 Relocate outbound stop from Nearside to Farside

2 Construct a bus shelter

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension

Pedestrian Improvements

Add/Improve Shelter

Evaluation Criteria

- Reach — High
- Safety — Medium
- Accessibility & Pax Experience — High
- Reliability & Time Savings — Low

None | Low | Medium | High | Very High
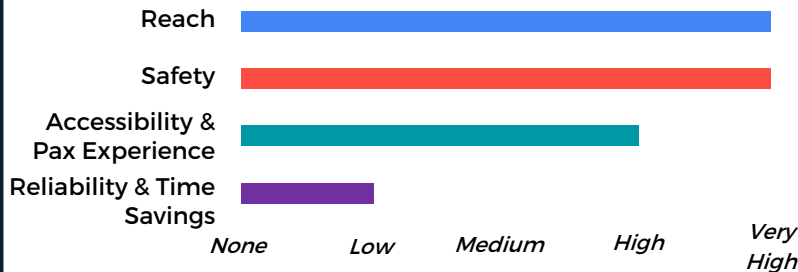
1 Install curb extension at outbound with striping improvements

2 Install median refuge island

Evaluation Criteria

Criteria	None	Low	Medium	High	Very High
Reach					
Safety					
Accessibility & Pax Experience					
Reliability & Time Savings					

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension
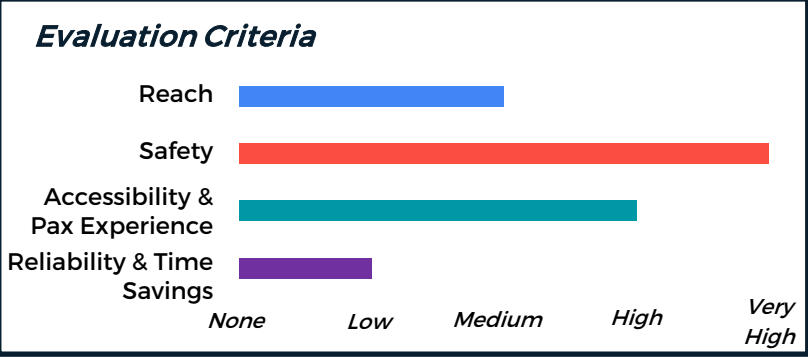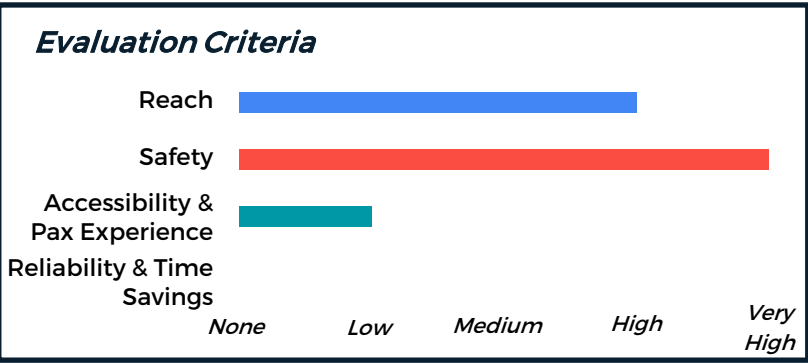
Pedestrian Improvements

Add/Improve Shelter

1 Construct medians at intersections to improve pedestrian refuge and define path of travel through intersection

2 Construct new curb ramps

PRUDENTIAL STATION (UNDERGROUND)

Evaluation Criteria

Reach	▇▇▇▇
Safety	▇▇▇▇▇
Accessibility & Pax Experience	▇▇
Reliability & Time Savings	

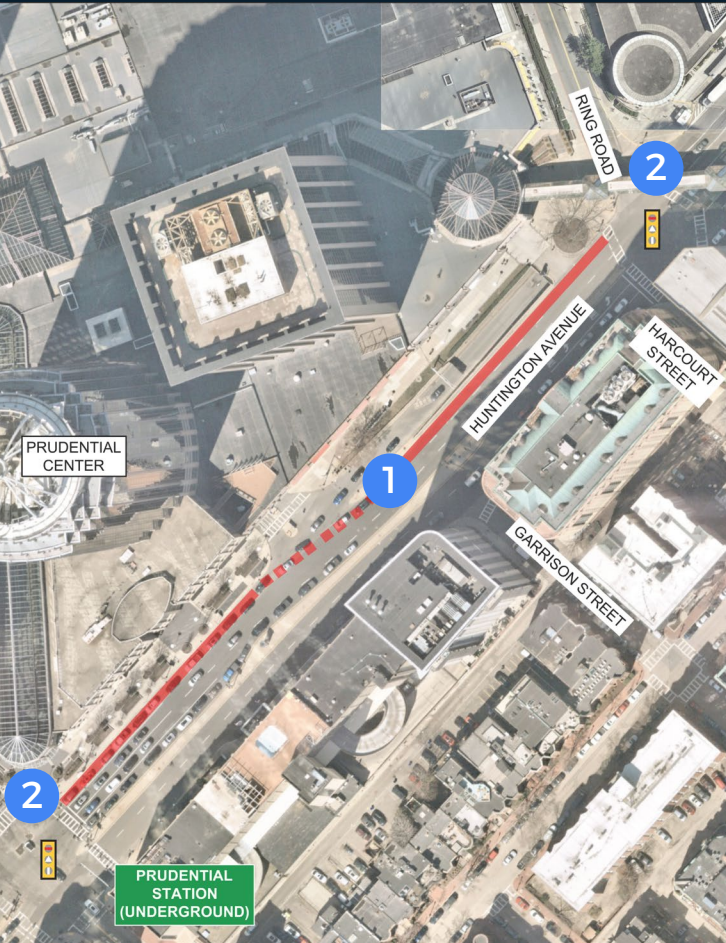None   Low   Medium   High   Very High

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension

Pedestrian Improvements

Add/Improve Shelter

BELVIDERE STREET

HUNTINGTON AVENUE

4-5 Huntington @ Ring Rd - Belvidere St

1. Convert right only lane to shared bus and right turn only lane

2. Implement transit signal priority

Improvement Strategies

Bus Lane / Queue Jump

Transit Signal Priority

Consolidate / Move Stop

Curb Extension

Pedestrian Improvements

Add / Improve Shelter

Evaluation Criteria

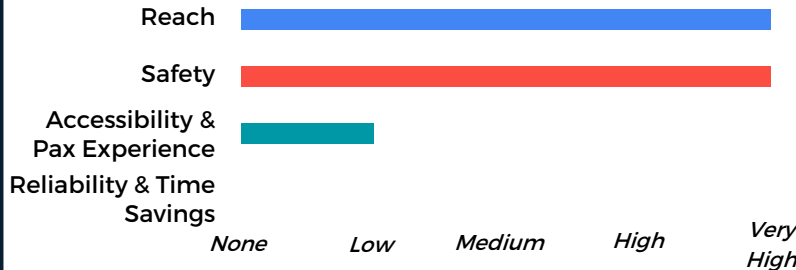| Criteria	None	Low	Medium	High	Very High
Reach					
Safety					
Accessibility & Pax Experience					
Reliability & Time Savings					

4-6 Huntington @ Ring Rd

1. Widen path of travel through refuge island

2. Reconstruct curb ramps

3. Reconfigure median refuge island

4. Straighten crosswalks

Evaluation Criteria

	None	Low	Medium	High	Very High
Reach					
Safety					
Accessibility & Pax Experience					
Reliability & Time Savings					

Improvement Strategies

Bus Lane/ Queue Jump

Transit Signal Priority

Consolidate/ Move Stop

Curb Extension

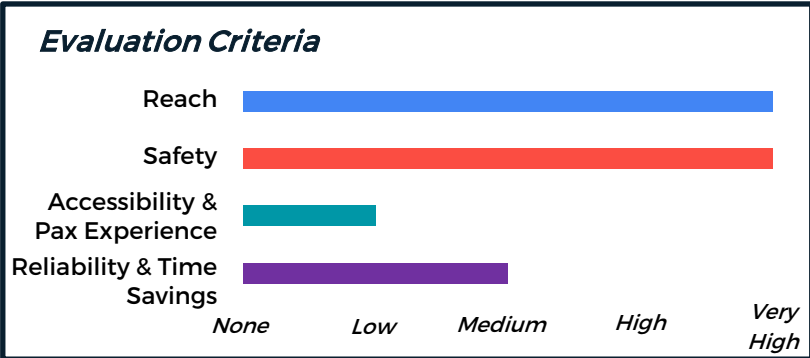**Pedestrian Improvements**

Add/Improve Shelter

1. **Implement transit signal priority**

2. **Install daylighting**

Evaluation Criteria

Criteria	Rating
Reach	Very High
Safety	Very High
Accessibility & Pax Experience	Low
Reliability & Time Savings	Medium

None — Low — Medium — High — Very High

Improvement Strategies

Bus Lane / Queue Jump

Transit Signal Priority

ONLY BUS

Consolidate / Move Stop
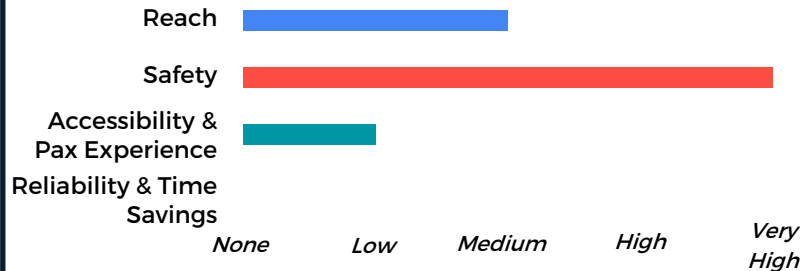
Curb Extension

Pedestrian Improvements

Add / Improve Shelter

5-5 Dartmouth St @ Huntington Ave

1. Close left slip lane from Dartmouth St northbound to Huntington Ave and install new curb ramps
2. Install curb extension and curb ramps
3. Straighten and relocate crosswalks
4. Reconstruct curb ramps

Evaluation Criteria

Criteria	Rating
Reach	Medium
Safety	Very High
Accessibility & Pax Experience	Low
Reliability & Time Savings	None

Scale: None — Low — Medium — High — Very High

Improvement Strategies

- Bus Lane / Queue Jump
- Transit Signal Priority
- Consolidate / Move Stop
- Curb Extension
- **Pedestrian Improvements**
- Add/Improve Shelter