



# **Intersection Improvements and Related Work (Including Signals) at Kelley Square along Madison and Adjacent Streets**

**HSI-003S(284) & STP-003S(284)**

**Project File No. 609226**

**Contract No. 108887**

**Presentation to  
MassDOT Capital Program Subcommittee  
September 11, 2019**

# Project Limits



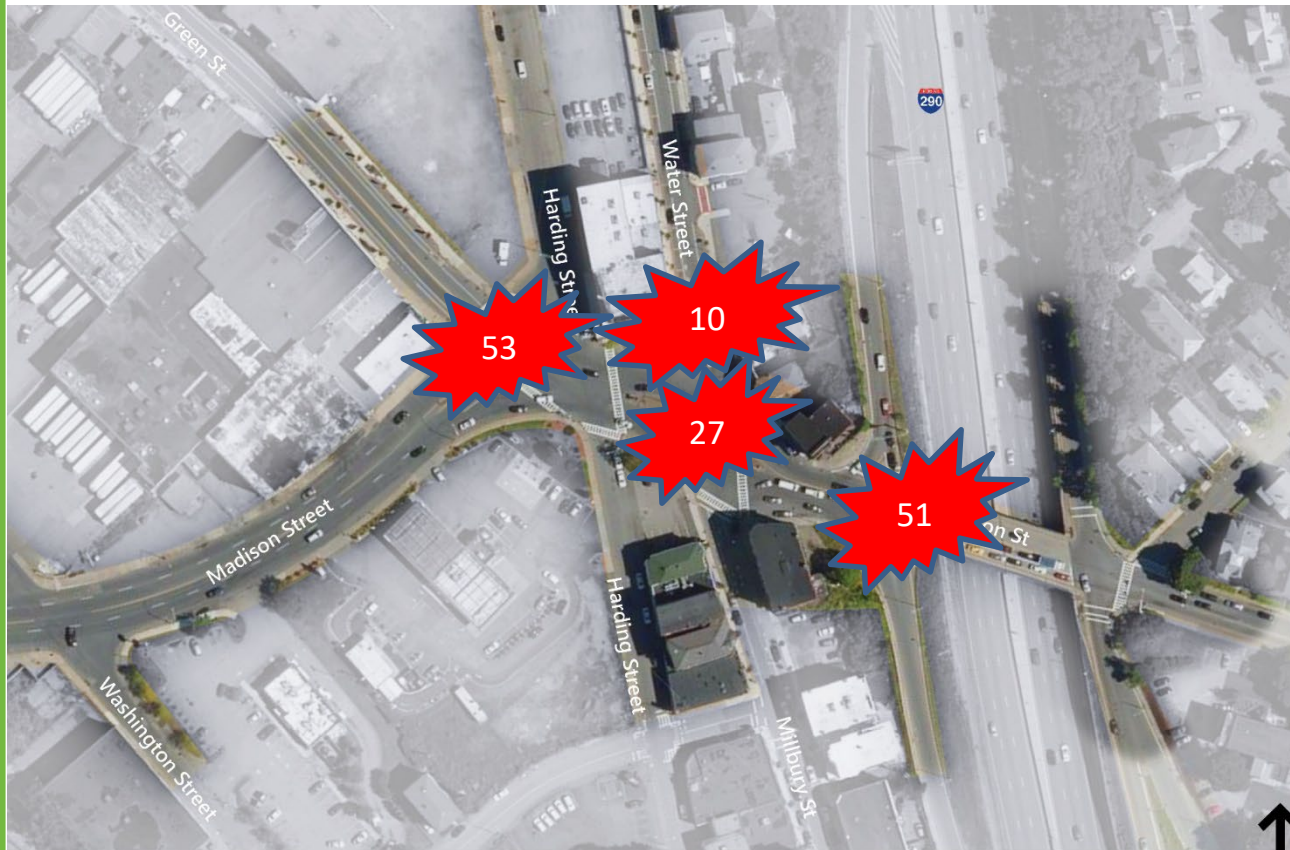


## Crash Summary (2013–2016)

Collision Type	Madison St. Washington to Green	Kelley Square	I-290 Interchange	Other	Total
Angle	49	80	61	0	190
Head-On	0	0	0	1	1
Rear-End	13	49	32	0	94
Sideswipe (Opp. Direct.)	3	1	4	0	8
Sideswipe (Same Direct.)	6	27	34	0	67
Single Vehicle	6	25	12	0	43
Non Motorist (Bike/Pedestrian)	4	13	5	0	22*
<b>Total</b>	81	195	148	1	<b>403</b>

\* The non-motorist crashes are also accounted for in the crash totals.

## Crash Summary (2013-2016)



**Left-turn crashes**  
I-290 WB on/off-ramps

**Angle collisions**  
Millbury/Water/Vernon St

**Angle collisions**  
Harding/Green/Madison St

**Side-swipe /  
backing maneuvers**

## Existing Operations – PM Conditions





## Project Need & Goals

- Improve safety for all users
- Improve mobility for all users
- Enhance neighborhood connectivity
- Create a walkable & bikeable Kelley Square
- Support existing businesses and economic growth

# Public Outreach

- **Outreach to Date**
  - Numerous meetings with community/business/stakeholder groups
  - MassDOT 1<sup>st</sup> Public Workshop – Oct 10, 2018
  - MassDOT 2<sup>nd</sup> Public Workshop – Oct 24, 2018
  - MassDOT Public Information Meeting – Dec 5, 2018
  - MassDOT 3<sup>rd</sup> Public Workshop – Jan 23, 2019
  - MassDOT 25% Design Public Hearing – February 27, 2019
  - City of Worcester sponsored Landscape meeting – May 6, 2019
  - MassDOT Public Information Meeting - May 22, 2019
- Participation of City staff in weekly meetings was critical to the successful design and public support of the project
- Additional public meetings continuing through construction

# Public Comment Samples

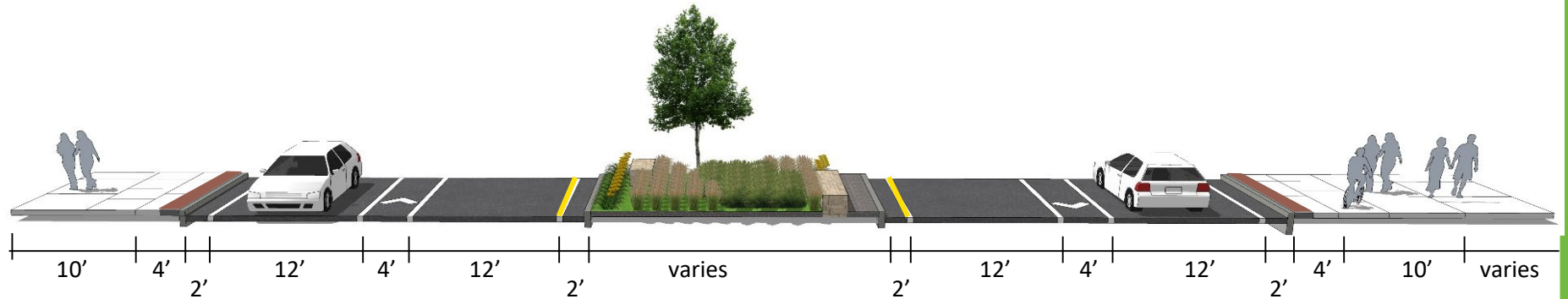
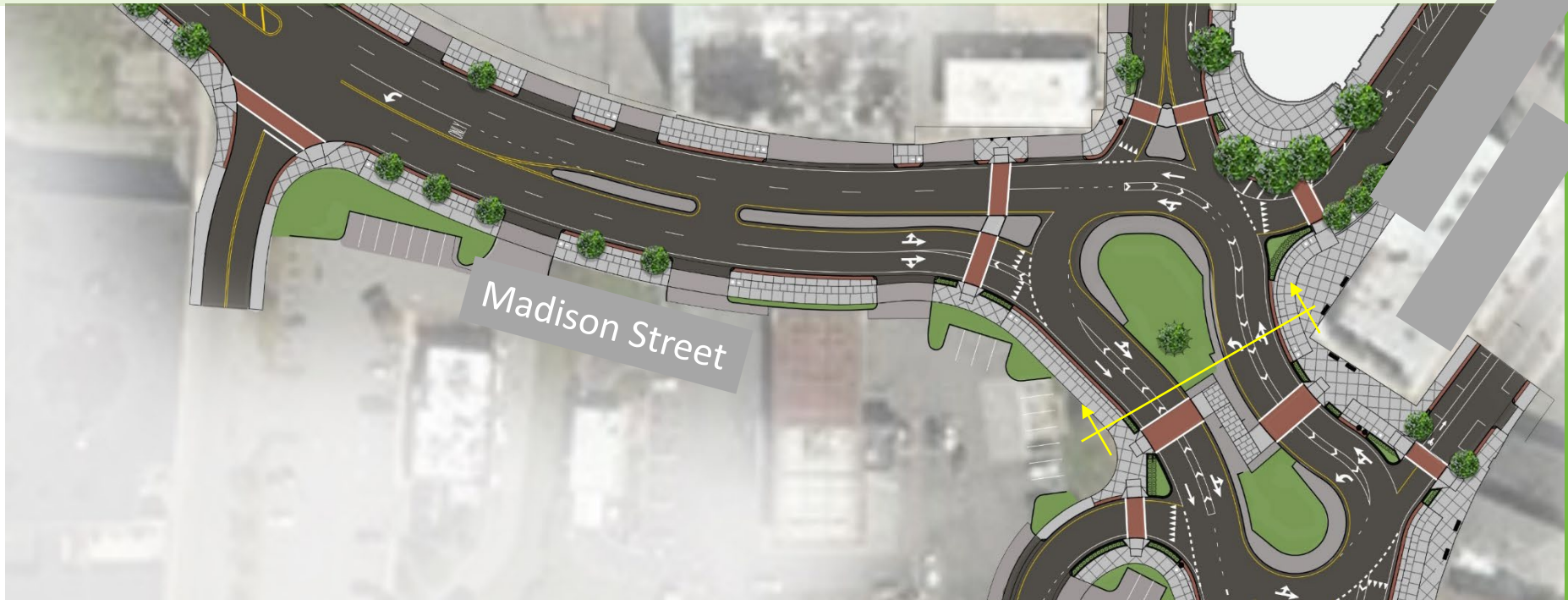
- *Parking on Madison St*
- *Shared-use Path*
- *Landscaping*
- *Street Lighting*
- *Bicycle treatments*
- *Bike route wayfinding signage*





# Hybrid Roundabout

Green Street

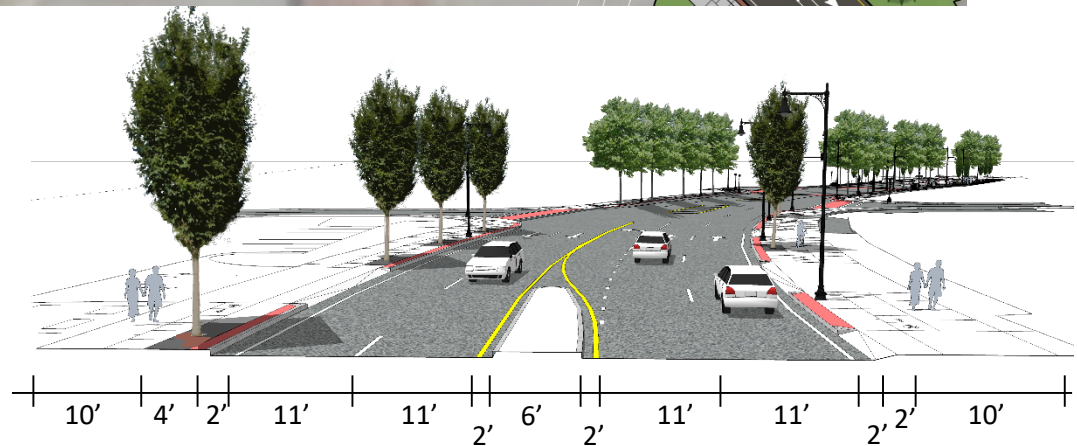
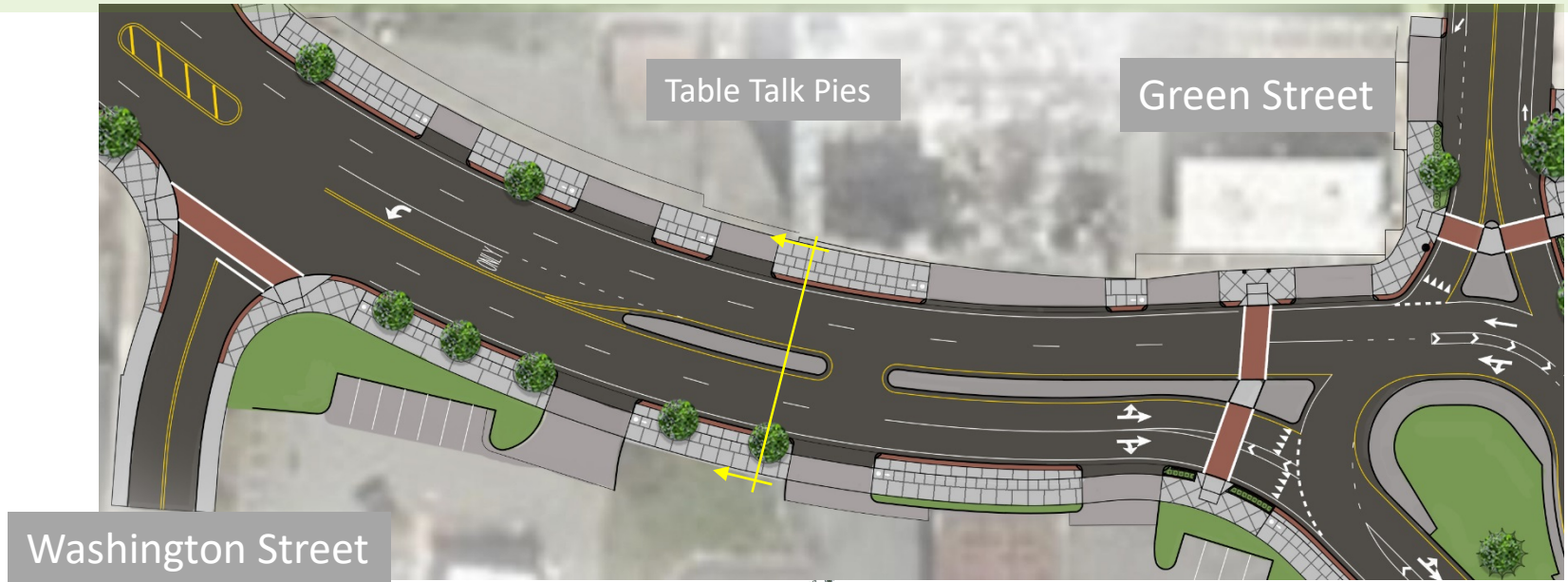


# Madison Street



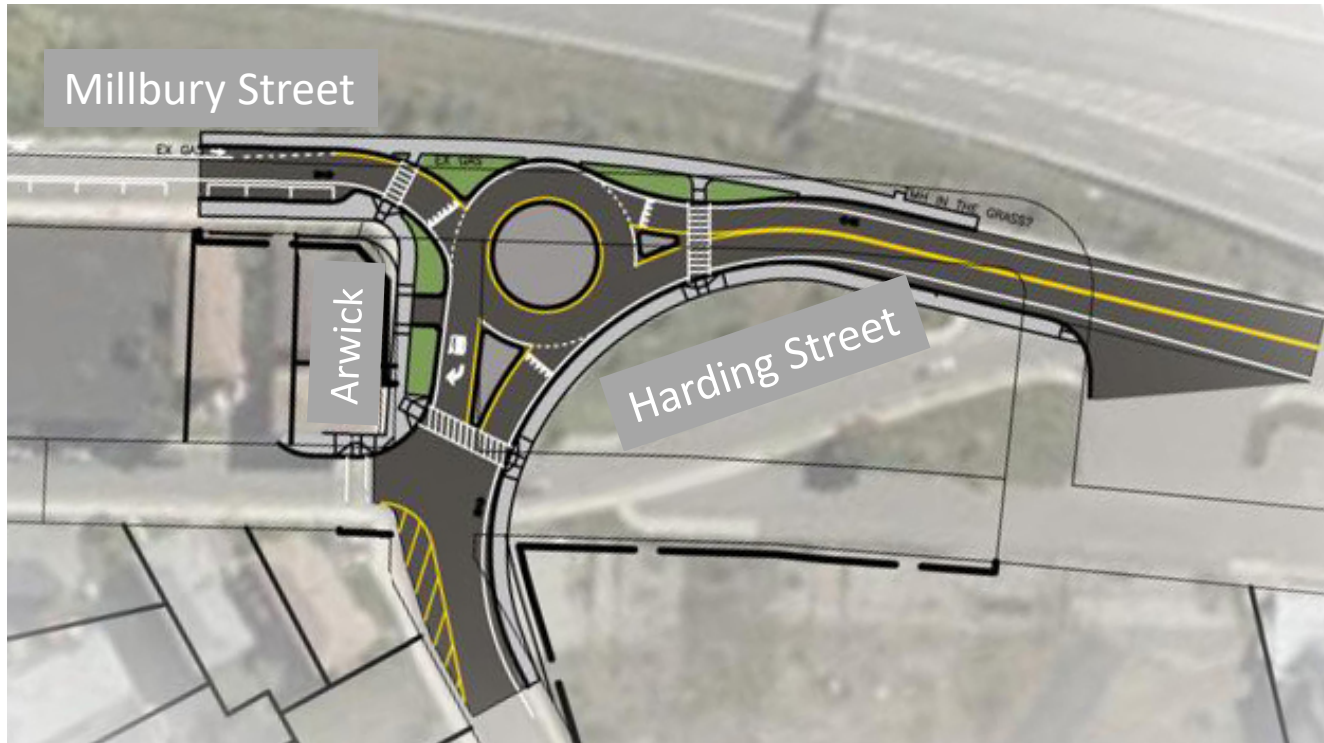


# Madison Street





# Arwick Ave/Millbury St/ Harding St



# Project Schedule

Construction Starts  
Oct 2019

Milestone No. 3  
Kelley Square  
Oct 23, 2020

Milestone No. 2  
Madison St  
Dec 1, 2020

Substantial  
Completion  
March 26, 2021



# Total Project Costs

<b>Bid Amount:</b>	<b>\$14,683,748.25</b>
<b>Traffic Police</b>	<b>\$1,364,860.00</b>
<b>Trainees</b>	<b>\$3,000.00</b>
<b>Railroad Flaggers</b>	<b>\$500.00</b>
<b>Incentive</b>	<b>\$377,700.00</b>
<b>Utility Reimbursement</b>	<b>\$468,270.72</b>
<b>Contingencies (15%)</b>	<b>\$2,202,562.23</b>
<b><u>5% Construction Engineering</u></b>	<b><u>\$734,187.41</u></b>
<b>Total</b>	<b>\$19,834,828.61</b>