



# Town of Hudson

## Downtown Rotary Improvement Plan

Hudson Planning and Community  
Development Department &  
Department of Public Works

BSC Group, Inc.

**December 4, 2019**  
Public Meeting





# Meeting Agenda

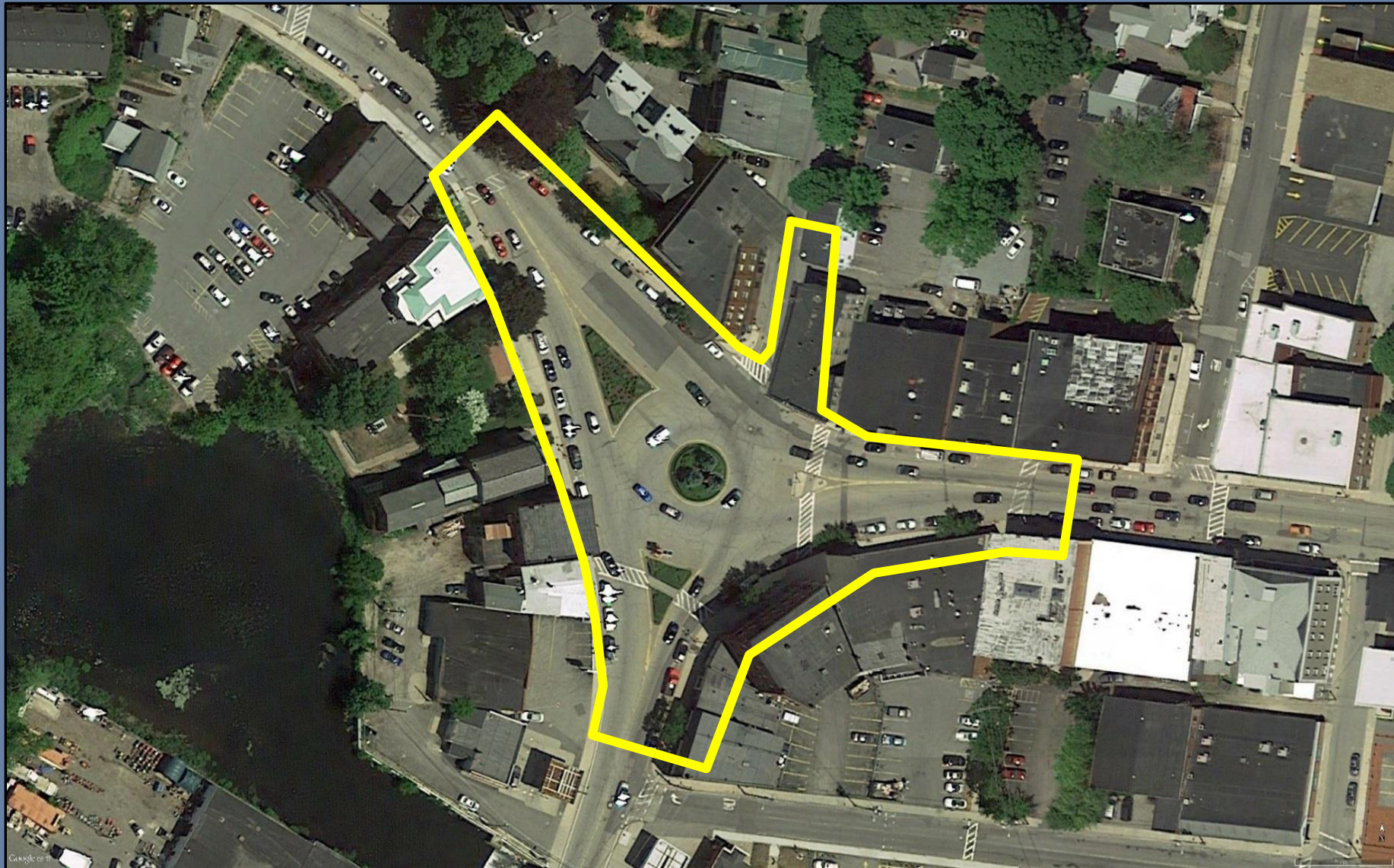
1. Introductions
2. History of the project
3. Funding for Project
4. Design and Outreach
5. Engineering
6. Construction expectations
7. Communication
8. Questions?

# Project Purpose

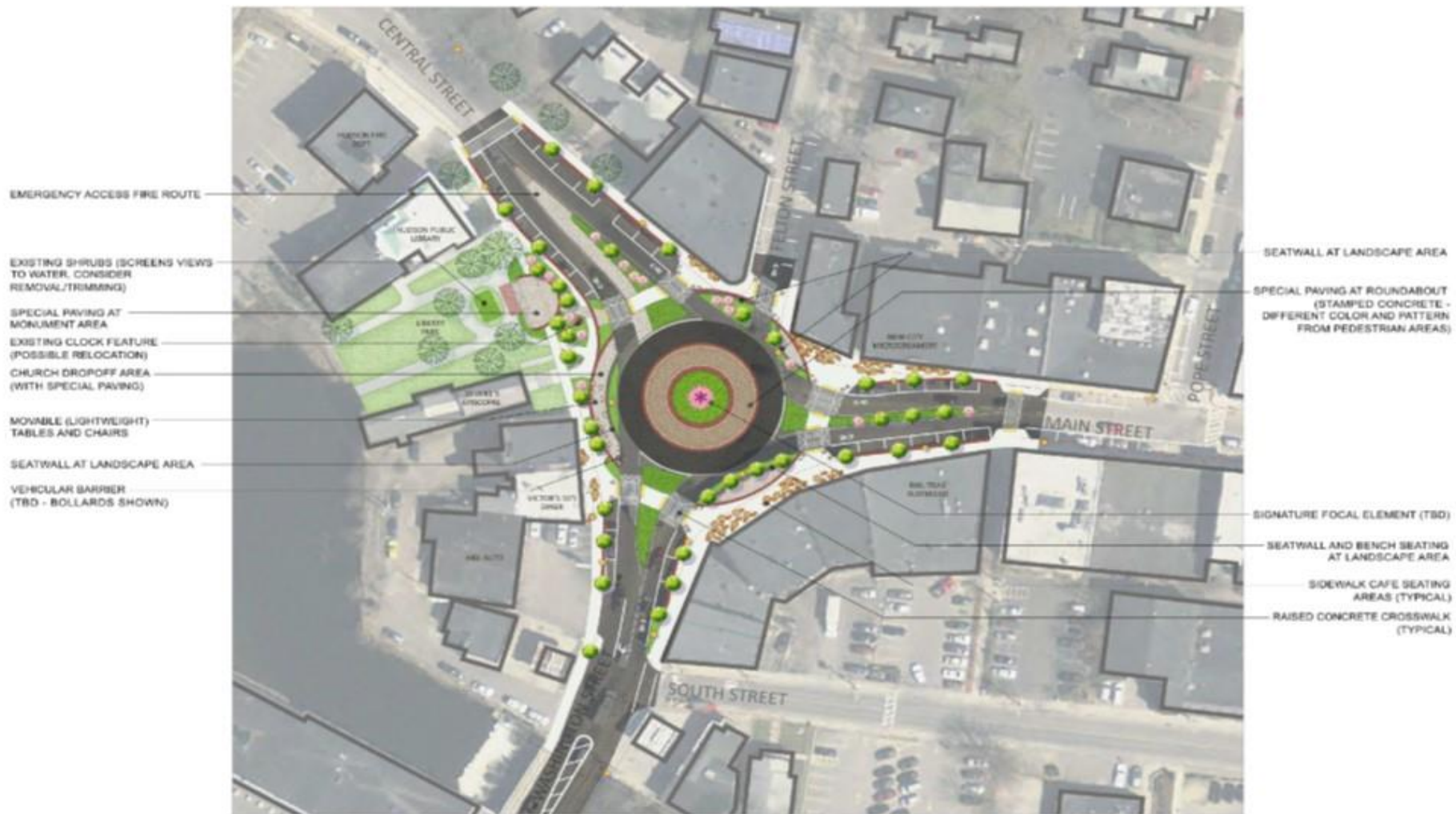
- **Increase public safety**
  - Safer vehicular and pedestrian circulation
  - Minimize pedestrian/vehicle conflicts
  - Better sight lines
- **Maintain on-street parking**
- **Enhance aesthetic charm – “Placemaking”**
- **Implement additional streetscape amenities**
- **Economic Development**



# Downtown Hudson Rotary Limit of Work



# Initial Project



EMERGENCY ACCESS FIRE ROUTE

EXISTING SHRUBS (SCREENS VIEWS TO WATER, CONSIDER REMOVAL/TRIMMING)

SPECIAL PAVING AT MONUMENT AREA

EXISTING CLOCK FEATURE (POSSIBLE RELOCATION)

CHURCH DROPOFF AREA (WITH SPECIAL PAVING)

MOVABLE (LIGHTWEIGHT) TABLES AND CHAIRS

SEATWALL AT LANDSCAPE AREA

VEHICULAR BARRIER (TBD - BOLLARDS SHOWN)

SEATWALL AT LANDSCAPE AREA

SPECIAL PAVING AT ROUNDABOUT (STAMPED CONCRETE - DIFFERENT COLOR AND PATTERN FROM PEDESTRIAN AREAS)

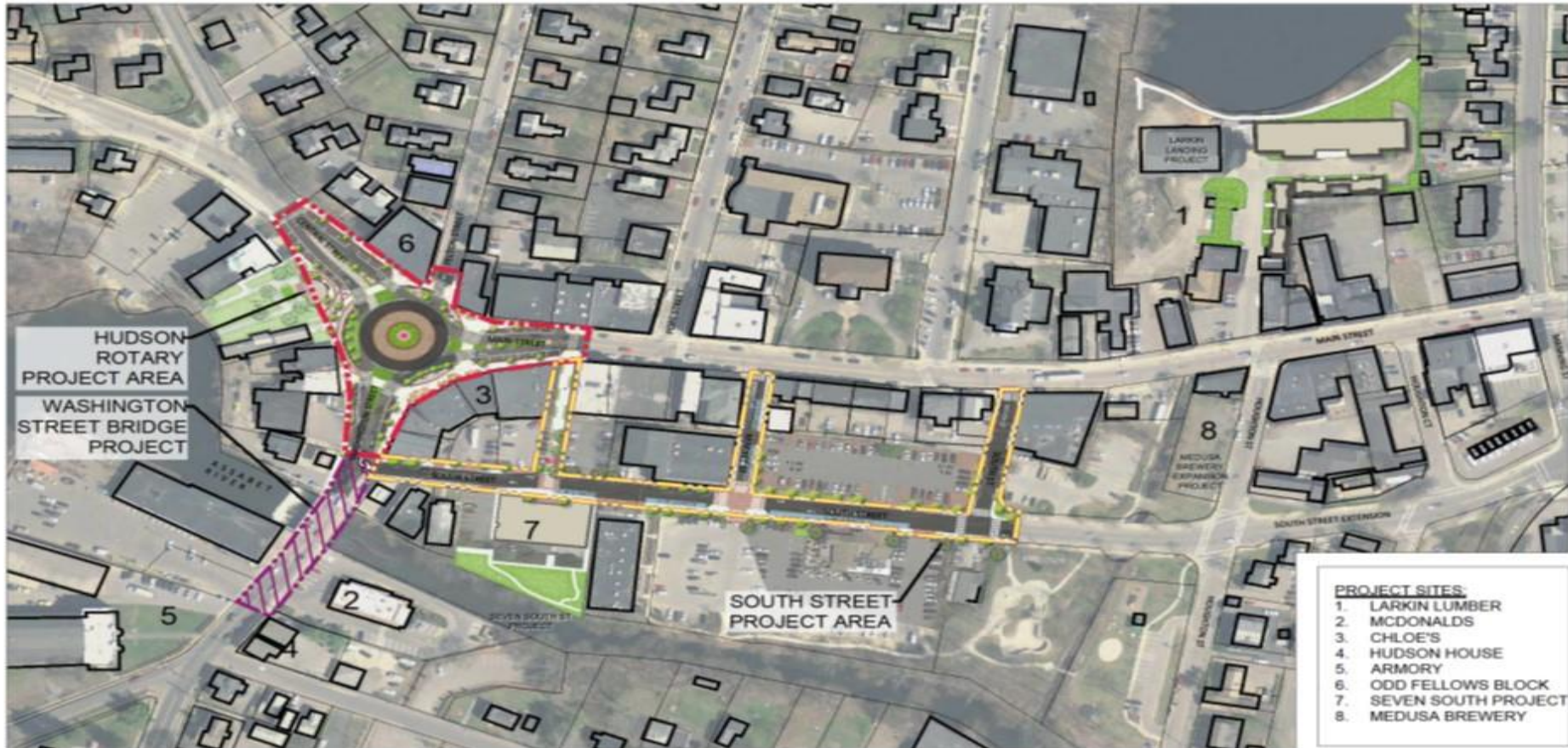
SIGNATURE FOCAL ELEMENT (TBD)

SEATWALL AND BENCH SEATING AT LANDSCAPE AREA

SIDEWALK CAFE SEATING AREAS (TYPICAL)

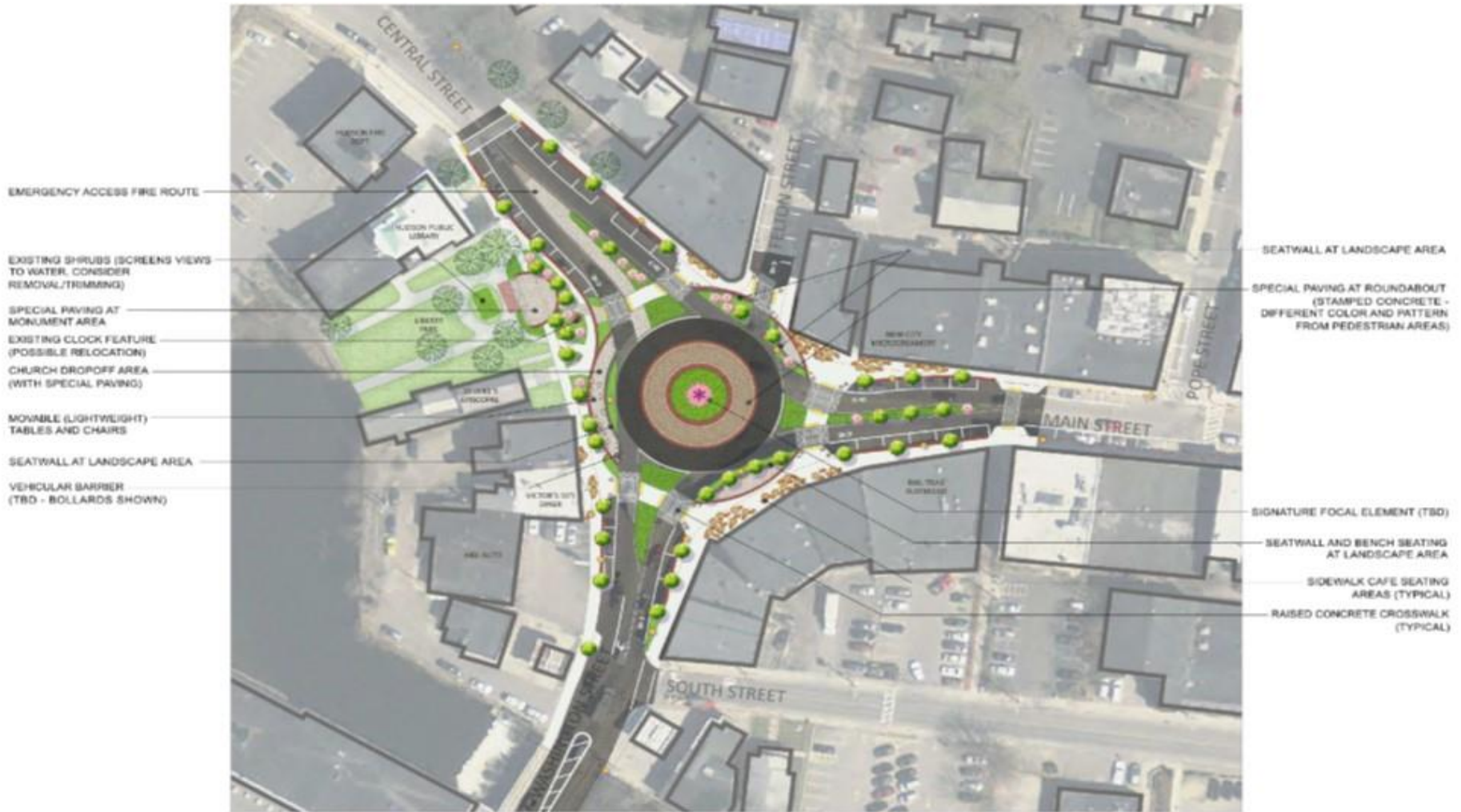
RAISED CONCRETE CROSSWALK (TYPICAL)

# Massworks 2017



APPROXIMATE PROJECT LIMITS  
HUDSON ROTARY + SOUTH STREET RENDERING  
HUDSON, MA  
JULY 17, 2018

# Massworks 2018





# Project Funding

Highland Commons -	\$ 391,436.22
Massworks 2018 -	\$ 650,000.00
<u>Capital 2019 Town Meeting -</u>	<u>\$ 800,000.00</u>
<b>Total</b>	<b>\$ 1,841,436.22</b>



# Community Engagement



# Community Engagement

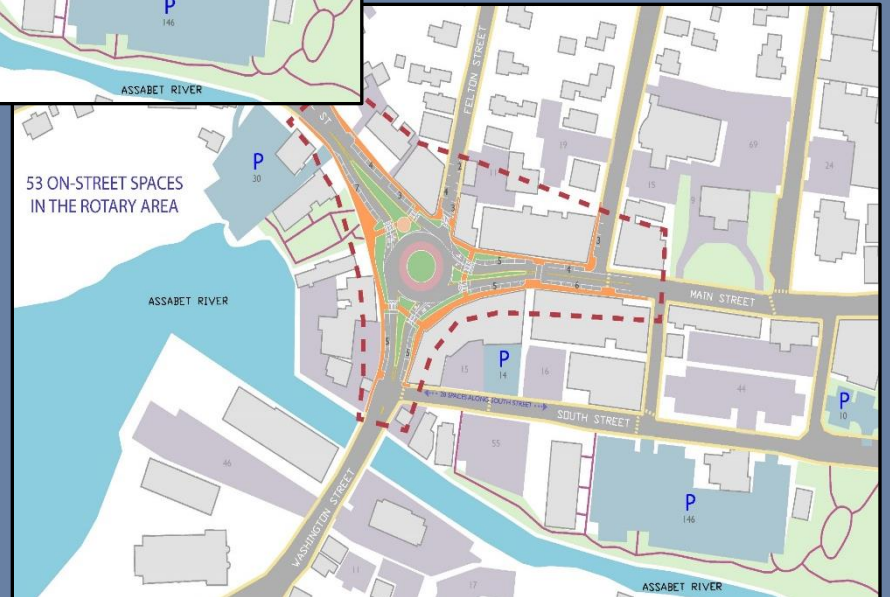
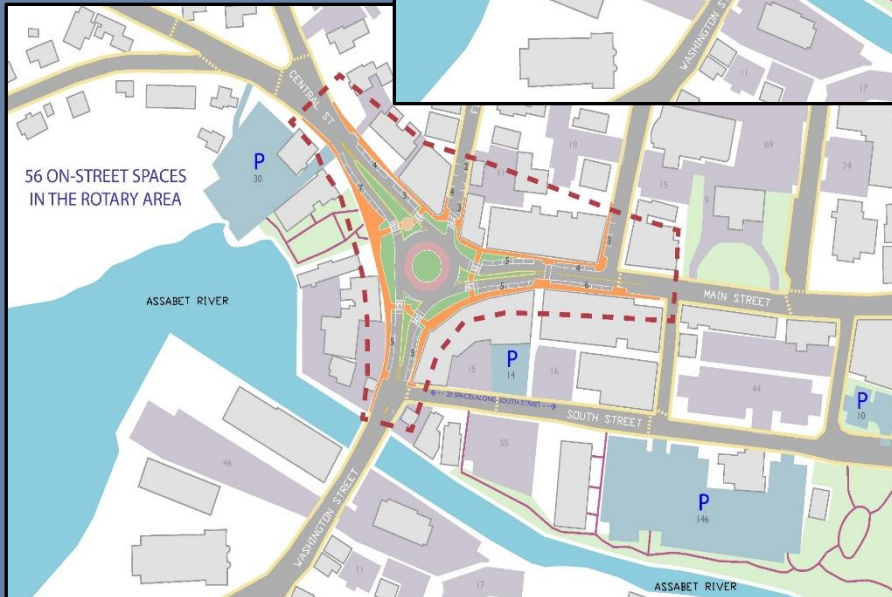
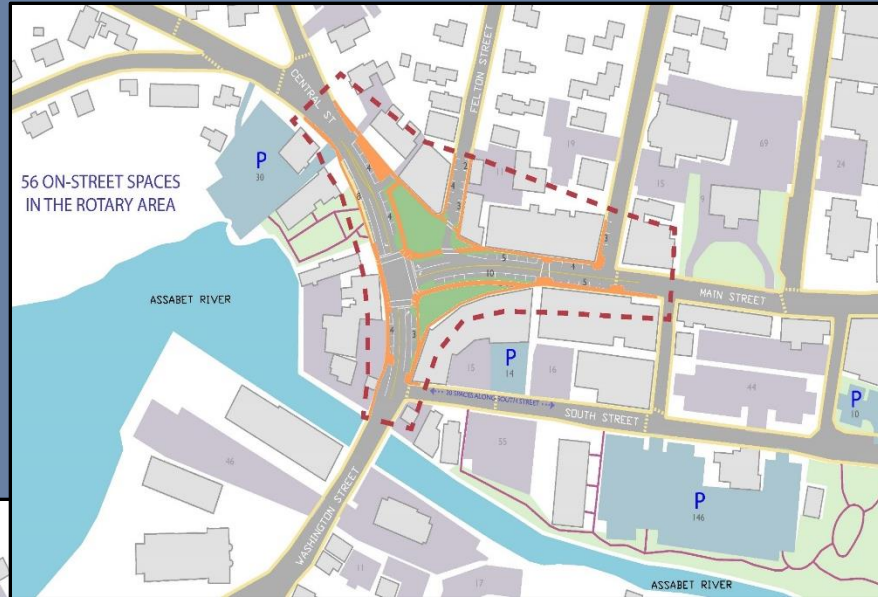


Rotary  
Hudson

Landmark Long  
Bare great Traffic  
Center Congested active Boring  
Definer Attractive Walkable buildings  
Tree-less Inviting Becoming Alive Getting Noisy  
Busy Quaint Competitive Challenging Entertaining coming  
Competitive Traditional Historic  
Upbeat living



# Design Options Considered



# Arriving at the Preferred Design Concept

Select your favorite concept design!



## FEEDBACK ON DESIGN OPTIONS Single Lane Option (RI)

Description: The rotary is converted into a single lane roundabout with a larger central island compared with today. This results in a single lane entry at all legs and one circulatory lane. Traffic travels counterclockwise around a central island and entering traffic must yield to circulating traffic.

### Key Features Include:

- 53 on-street parking spaces
- Opportunities for streetscape beautification and landscaping
- Improved pedestrian conditions
- Maintaining the Rotary within the Downtown

### Advantages:

- enhances pedestrian safety by minimizing the number of travel lanes and reducing the overall crossing distance
- increases pedestrian visibility with raised crosswalks and well-defined pedestrian spaces
- provides opportunities to use rotary as a way to make Downtown unique
- provides opportunities for landscaping and other attractive features
- reduces travel speeds through and into the intersection
- improves intersection safety by reducing conflict points and crash severity
- reduces vehicle delay, even in night time conditions
- additional traffic "islands" will result in traffic calming

### Disadvantages:

- results in long queues during portions of the peak hour as a result of a single travel lane
- queuing of vehicles extends past Fire Station in AM and PM
- potential for sign pollution from pedestrian crossing signs and rotary directional signs
- no large contiguous pedestrian/green space

### OTHER KEY FEATURES



### OTHER ADVANTAGES

Yes, Best

Some people are saying they like the roundabout design.

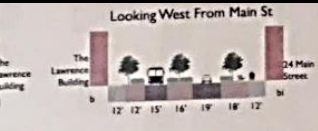
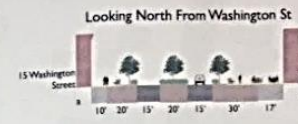
### OTHER DISADVANTAGES

Left turn at intersection

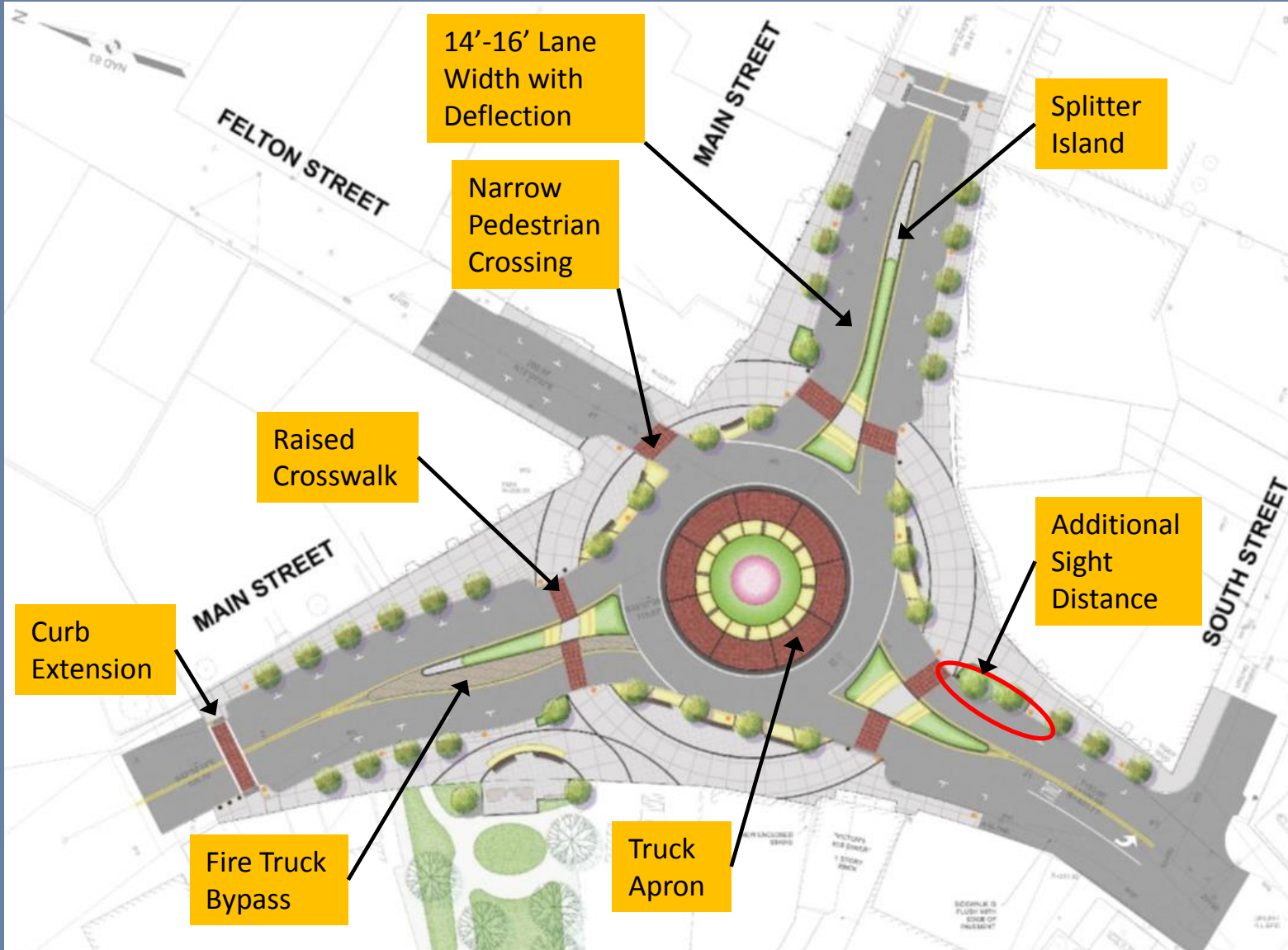
Bikes have to enter traffic lane as it narrows and is not clearly marked for bikes.

Fell St not wide enough for the roundabout.

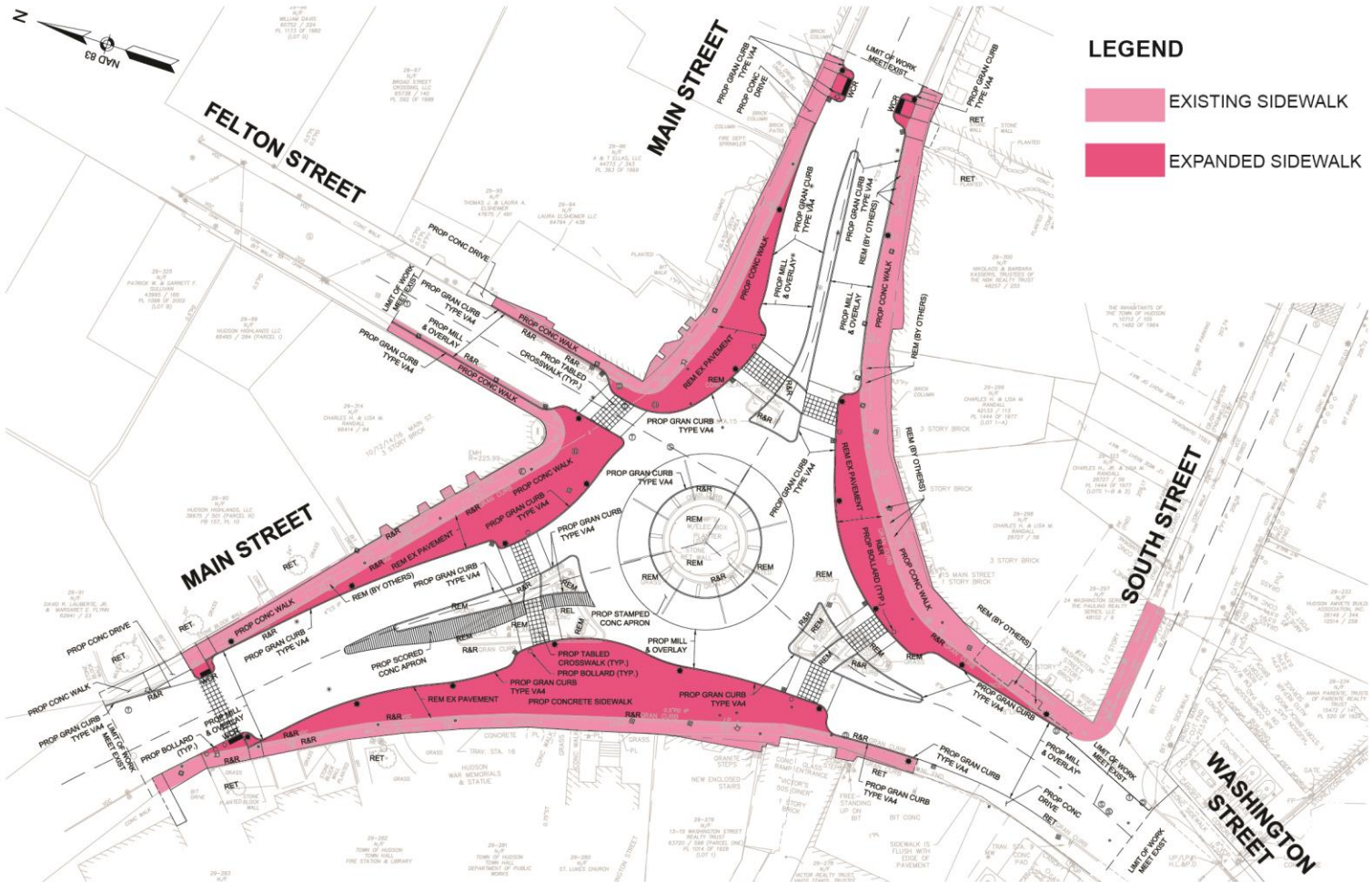
Release Rotary complete design.



# Safety Design Improvements



# Design Improvements – More Sidewalk Space



# Design Improvements

SITE FURNISHINGS



BENCH



LIGHTING

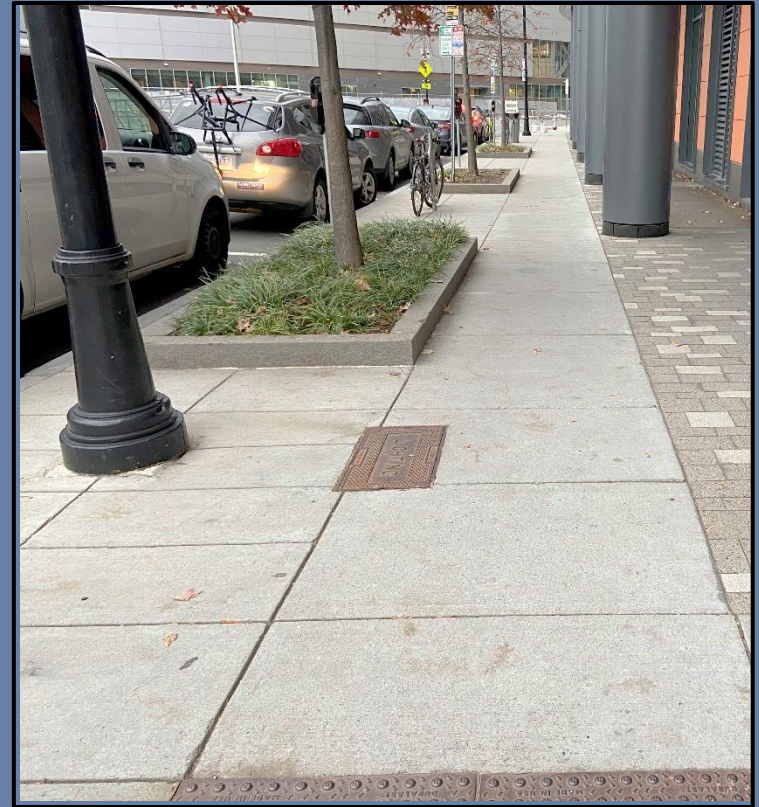


# Design Improvements

PAVING



PLANTER WITH RAISED CURB



SIDEWALK SCORING PATTERN

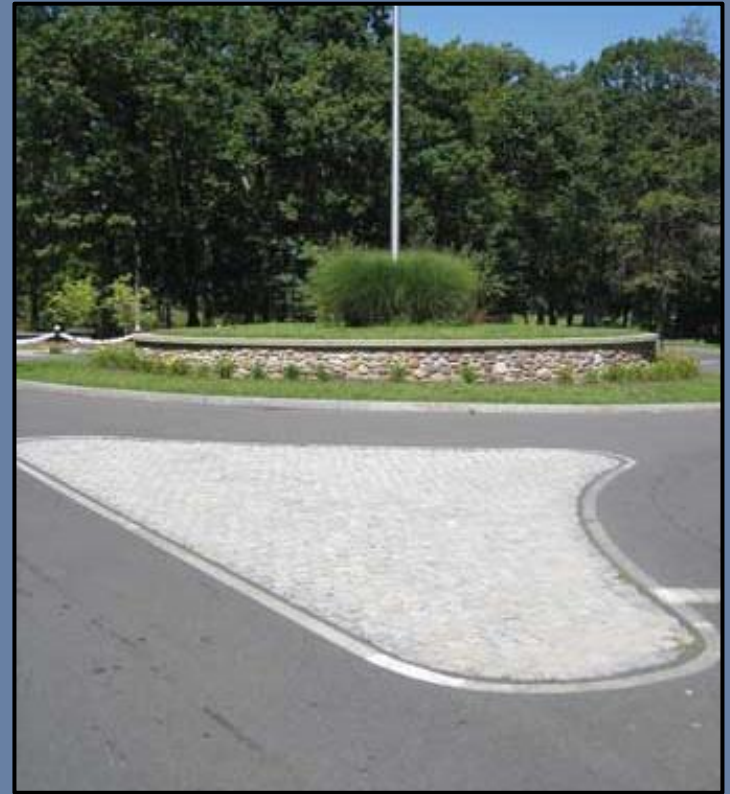


# Design Improvements

CROSSWALK AND MEDIAN



RAISED CROSSWALK



MEDIAN PAVING

# Design Improvements

CENTER OF ROTARY



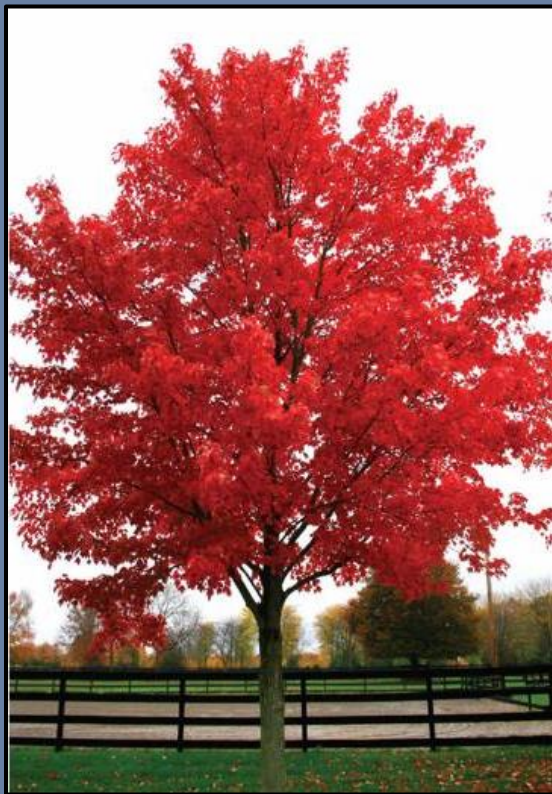
STAMPED COLORED PAVEMENT FOR TRUCK APRON



MOUNTABLE CURB FOR TRUCK APRON

# Design Improvements

PLANT MATERIAL – TREES AND SHRUBS



ACER RUBRUM `OCTOBER GLORY`



ULMUS AMERICANA `PRINCETON`



JUNIPERUS HORIZONTALIS  
`BAR HARBOR`



ROSA X `FLOWER CARPET PINK`

# Design Improvements

PLANT MATERIAL – PERENNIALS AND GROUNDCOVERS



HEMEROCALLIS X `HAPPY RETURNS`

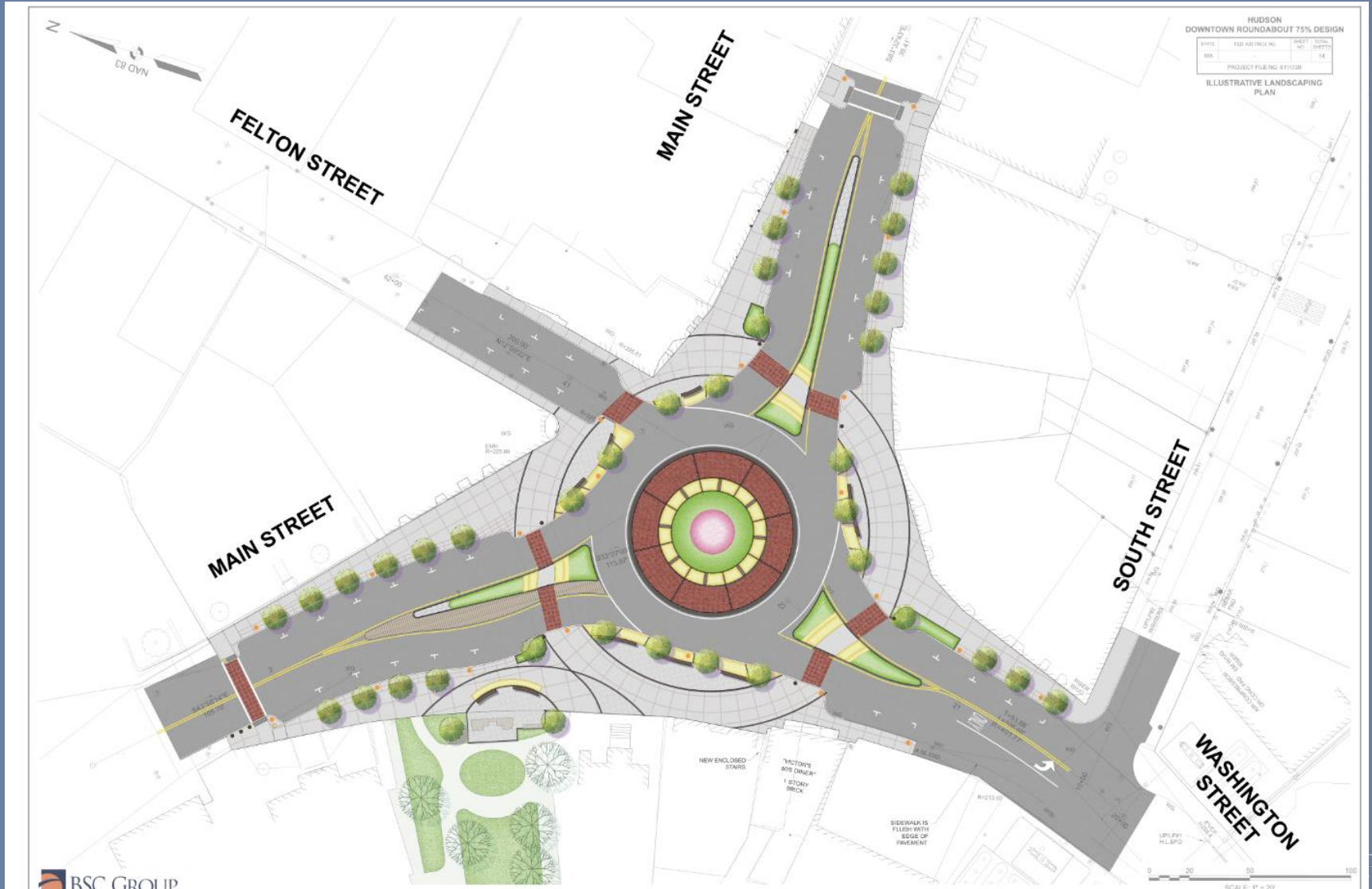


WALDSTEINIA TERNATA



CALAMAGROSTIS X ACUTIFLORA  
`KARL FOERSTER`

# Design Improvements



# Anticipated Project Schedule

## Milestone

## Month/Year

Design, Survey, Engineering

Fall 2019

Project Advertised

January 2020

Bid Opening

February 2020

Contract Awarded

March 2020

Anticipated Construction Start

May 2020

Anticipated Final Punchlist  
Project Completion

Summer 2021



# Typical Construction Sequencing



Phase 1: Utilities



Phase 2: Lighting/Signal



Phase 3: Curb



Phase 4: Driveway/Walks/ADA



Phase 5: Landscape



Final: Paving/Markings/Signs

# Managing the Construction Process -

- Coordinating pedestrian access to businesses
- Parking in the Project Area
- Potential water service disruptions
- Utility connections to buildings
- Construction management by quadrant
- Timely communication will be key





# Construction Communication

- Internal management team- DPW, Fire Police, Planning, and Town Administrator.
- Construction Staging will be done with extreme sensitivity
- Weekly construction progress meetings
  - Troubleshoot engineering issues
  - Review upcoming construction work
  - Review and discuss traffic management and police details
  - Discuss any issues raised by abutters

# Construction Communication



Town of Hudson Planning and Community Development



**Town of Hudson Planning and Community Development Department**



Published by Kristina Johnson [?]

Like This Page · October 29 · 🌐

Yes, we know; it's been a long time coming...the remaining paving of South Street Extension in front of the Skate Park will be completed today. At 1:00PM, paving crews will be out completing the work. South Street--between Medusa Brewery and Chubby's Liquors will be accessible and Houghton Street will not be affected. It is anticipated that this work will all be completed today. Thank you for your patience and understanding.

📍 Tag Photo   📍 Add Location   ✎ Edit

👍❤️ 19

3 Comments 8 Shares

👍 Like   💬 Comment   ➦ Share   🌐

Most Relevant ▾



Comment as Town of Hud...



# Construction Communication



Town of Hudson Planning and Community Development



**Town of Hudson**  
**South Streetscape Improvement Project**  
**Final Paving- Friday, November 16, 2018**



- South Street paving will occur on 11/16/2018 in two segments between 7:00 AM- 3:00 PM
- South Street Parking Lot will be accessible at all times
- Follow instructions of the Police Details on site



**Town of Hudson Planning and Community Development Department**

Published by Kristina Johnson [?]  
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Add a description

Tag Photo Add Location Edit

Like Comment Share



Comment as Town of Hud...    

# Construction Communication

## Front page of Town Website under Town News



### Hudson Adopts "Next Generation" Board Management Technology »

News Release

#### HUDSON ADOPTS "NEXT GENERATION" BOARD MANAGEMENT

TECHNOLOGY BoardDocs Solution Enables Organization...

### Conservation Commission Vacancies »

The Conservation Commission is responsible for enforcing Wetlands Protection law and for managing town conservation...

### Help Wanted - Housing Authority - Groundskeeper/Custodian »

For more information about the Housing Authority - Groundskeeper/Custodian Job Opening, please visit the ...

### South Street Riverwalk Guided Walks and Presentations »

Hudson is in the process of redesigning the South Street Riverwalk to create a more inviting and accessible space. ...

# Construction Communication

Via Partner Organizations...



**HUDSON MA**  
D O W N T O W N



# Contact Information

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