

# MORGAN-SULLIVAN BRIDGE REPLACEMENT PROJECT

NORTHERN CONSTRUCTION SERVICE, LLC



## Public Meeting

October 2, 2018  
West Springfield  
Town Hall

Bridge Replacement Br. No. A-05-002=W-21-014  
Springfield Street (Route 147) over Westfield River  
Project File No. 605384

# AGENDA

- Welcome & Introductions
- Project Overview
- Project Goals & Benefits
- Construction Schedule
- Traffic Management
- Public Outreach
- Questions

# PROJECT TEAM



- **Owner:** Massachusetts Department of Transportation (MassDOT) – Highway Division



- **Design Consultant:** Alfred Benesch & Company



- **General Contractor:** Northern Construction Service, LLC



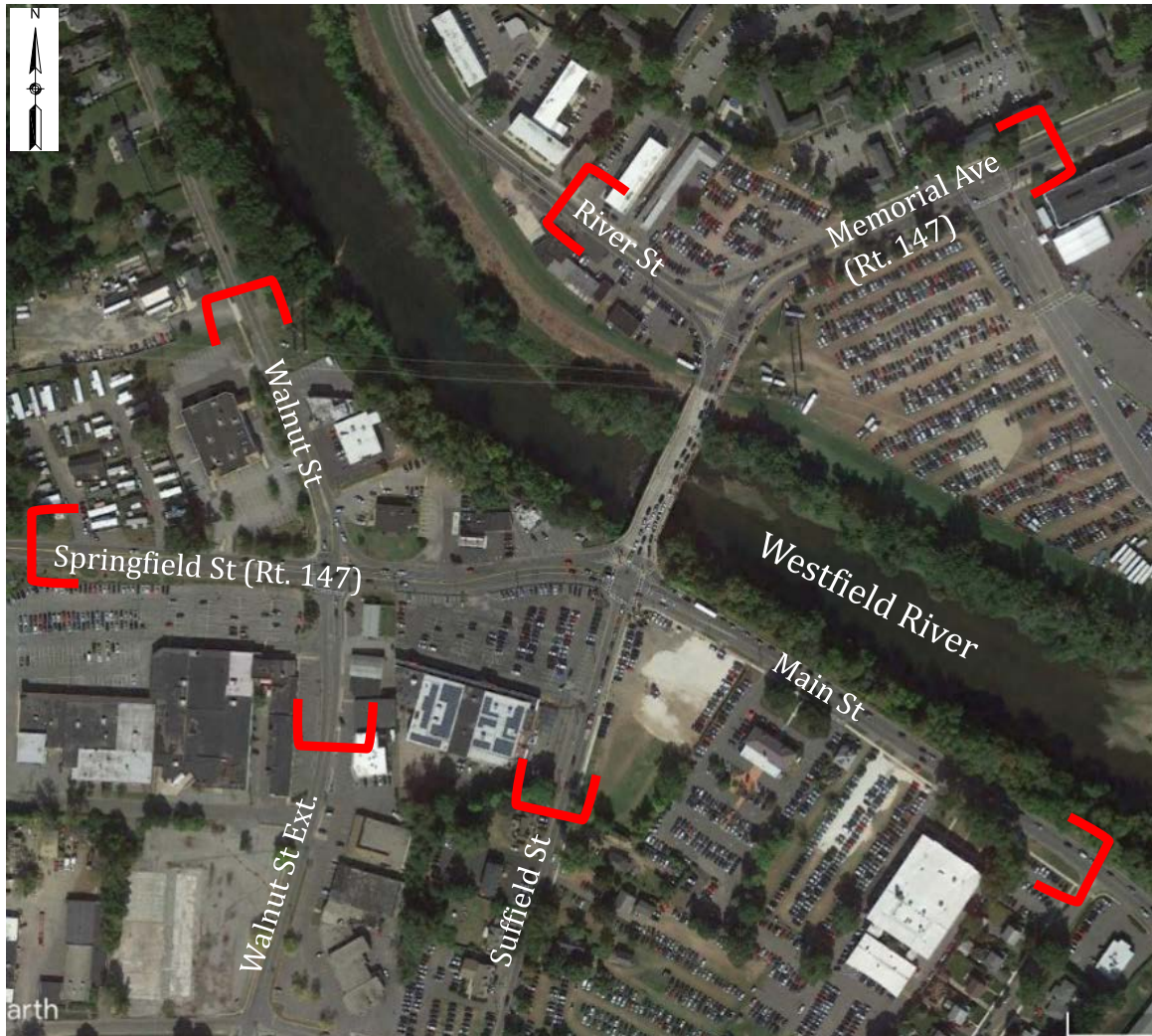
- **Public Outreach:** Regina Villa Associates (RVA)



# PROJECT OVERVIEW



# PROJECT LOCATION



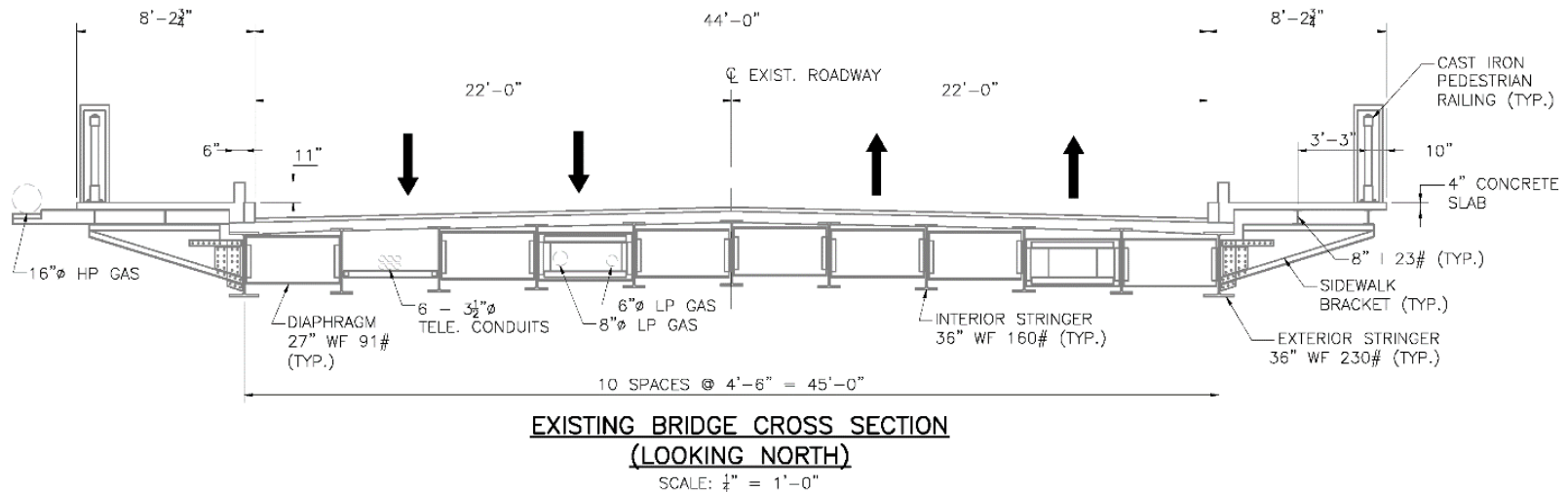
## Morgan-Sullivan Bridge

- Carries Route 147 over Westfield River between West Springfield and Agawam

# ENVIRONMENTAL PERMITTING

- 408 US Army Corps (Levee Safety)
- 404 US Army Corps (PCN General Permit)
- 401 MA DEP (Water Quality Certificate)
- NEPA – CE Determination (FHWA)
- Section 106 Process – Section 4(f) Evaluation
- NHESP – National Heritage Endangered Species Program
- MESA – Protects Endangered Species
- Agawam Conservation Commission – Order of Conditions

# BRIDGE EXISTING CONDITIONS



- Built in 1946 – 72 years old
- Substandard design geometry
- Structurally deficient/functionally obsolete
  - Bridge rating of 4 (poor) for deck, 5 (fair) for superstructure, 5 (fair) for substructure
- No bicycle accommodations





# ROADWAY EXISTING CONDITIONS

- Missing or deficient sidewalks or bicycle accommodations
- No right-turn lane onto the Big E
- Inadequate shoulder width for Rt 147 (Memorial Ave)
- Non-ADA/AAB compliant wheelchair ramps
- Inadequate lane storage & configuration
- Deficient traffic signs and pavement markings







# PROJECT GOALS & BENEFITS

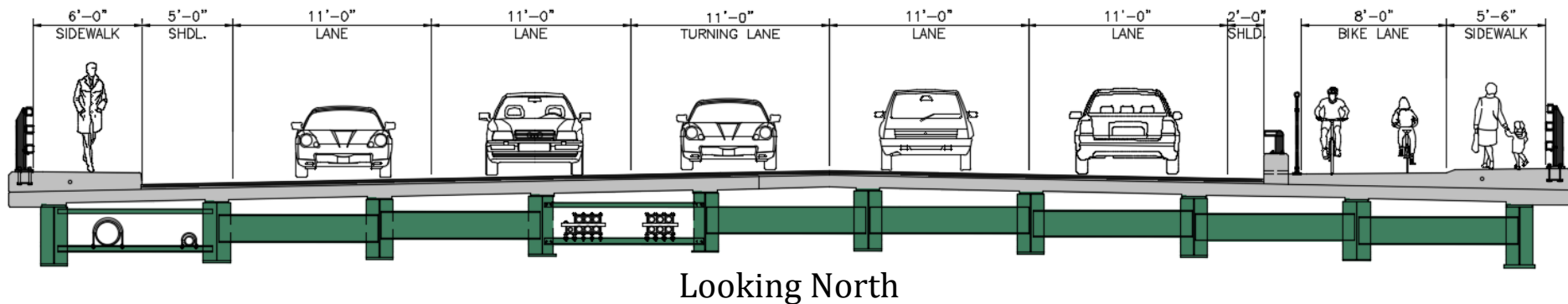


# PROJECT GOALS

- **Replace the Bridge** | Meet current design standards and provide wider structure to accommodate additional turning lanes and separated bike lane.
- **Improve Traffic** | Improve geometrics & provide for existing and future traffic volumes across the bridge and at the 3 intersections.
- **Pedestrian Accommodation** | Provide sidewalks on both sides of all project roadways, and provide wider sidewalks where feasible.
- **Bicycle Accommodation** | Provide “separated bike lanes” where feasible.
- **Minimize Impacts to Abutters** | Minimize permanent and temporary impacts to abutters and business. Coordination with abutters through Municipal Officials.
- **Coordinate Utility Relocations** | Minimize construction schedule impacts.



# NEW BRIDGE CROSS SECTION & IMPROVEMENTS



- Replace existing structurally deficient bridge.
- Add turning lane at intersections on both ends of bridge.
- Add separated (and crash protected) two-way bike lane on east side of the bridge.
- Add queuing space for vehicles on both sides of the bridge to ease traffic congestion.



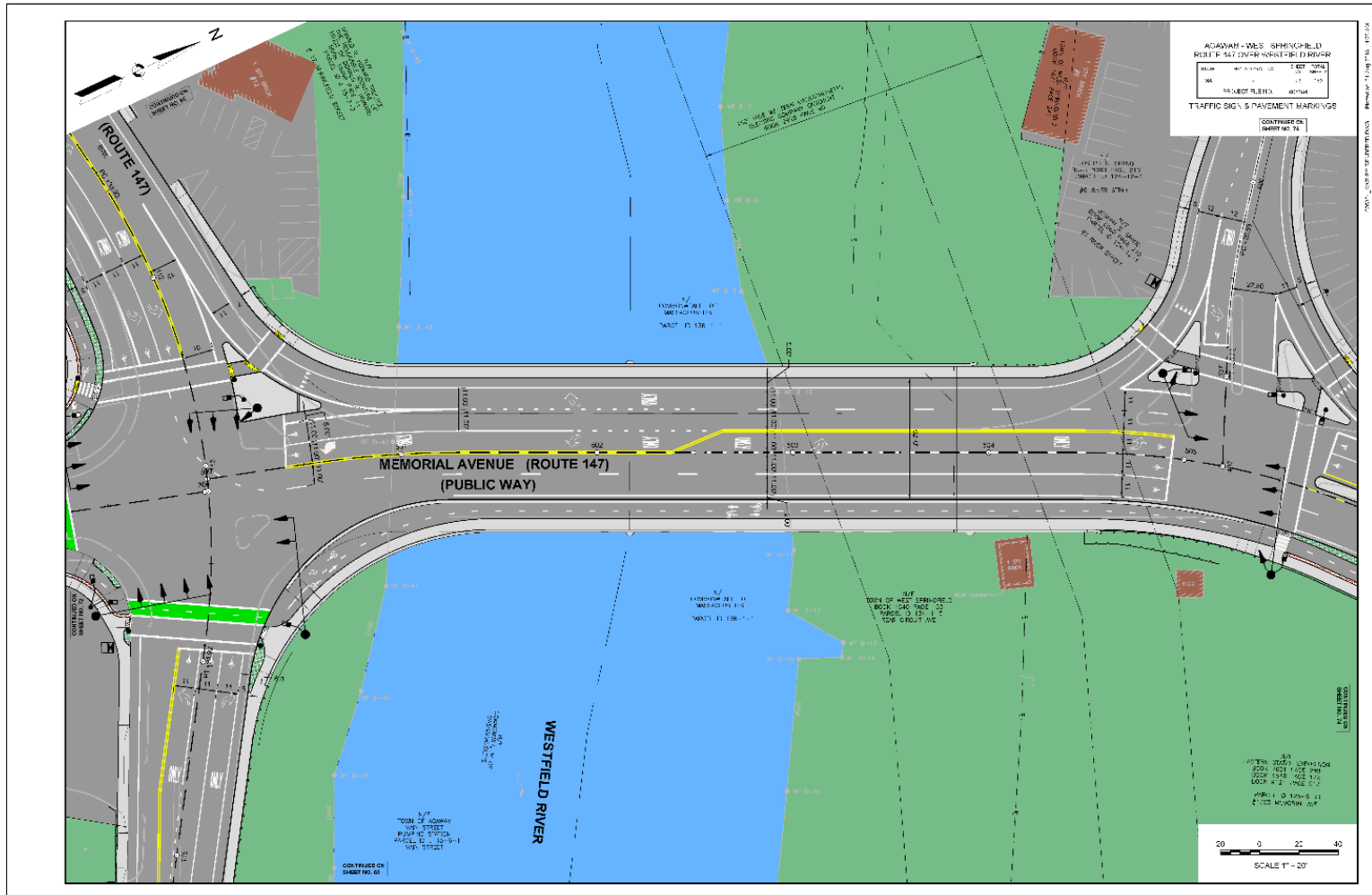
# COMPLETE STREETS IMPROVEMENTS

- Separated two-way bike lane & sidewalk throughout most of the project.
  - Extends to Doering Middle School and across the bridge to the Big E.
- Two designated bike crossings provided at the Route 147/75/159 intersection.
- New sidewalks added in several locations where currently none exist.

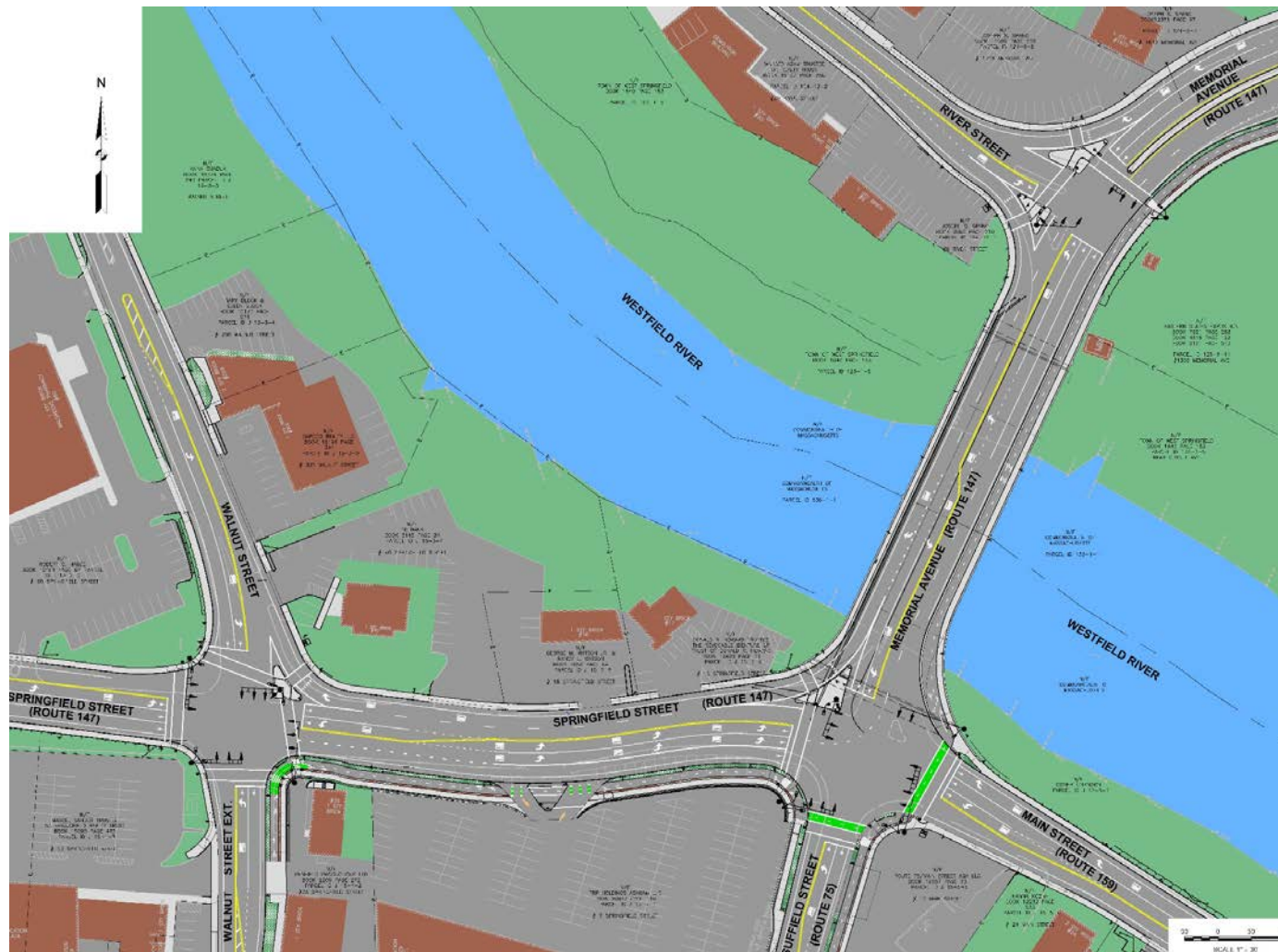


Memorial Avenue (Route 147) & River Street

# COMPLETE STREETS IMPROVEMENTS – ON BRIDGE



# COMPLETE STREETS IMPROVEMENTS – PROJECT EXTENTS





# TRAFFIC SIGNAL, ROADWAY & SAFETY IMPROVEMENTS

- Three traffic control signal intersections will be widened and reconstructed (*see next slide*).
- New traffic signal interconnection system will synchronize all three intersections.
- Box widening throughout project limits provides added turn-lanes at signals.
- Drainage system modifications with deep sump catch basins for water quality.

# INTERSECTION RECONSTRUCTION

1. Memorial Avenue (Route 147) at River Street in West Springfield
2. Springfield Street (Route 147) at Main Street/Suffield Street in Agawam
3. Springfield Street (Route 147) at Walnut Street/Walnut Street Extension in Agawam







# CONSTRUCTION SCHEDULE





# PHASED CONSTRUCTION SCHEDULE

Milestone	Date
Preliminary Work	October 2018
Road Work, Stage 1	October 2018 to November 2018
Bridge Work, Stage 1 Road Work, Stage 2A – 2D	November 2018 to Fall 2020
Complete West Side of Bridge, Open to Traffic	Fall 2020
Bridge Work, Stage 2 Road Work, Stage 3A – 4	Fall 2020 to Spring 2022
Complete East Side of Bridge, Open Full Bridge to Traffic	Spring 2022
Full Beneficial Use	Spring 2022
Project Completion	Summer 2022



# CONSTRUCTION STAGING



# PRELIMINARY WORK

## Beginning October 2018

- Install traffic management signs.
- Complete tree clearing and vegetation management.
- Install erosion & sediment controls.
- Perform temporary deck improvements, including concrete chipping and patching.

- **Bridge Work Stage 1 (Nov. 2018 to Fall 2020):** traffic on east side of bridge while west side is rebuilt

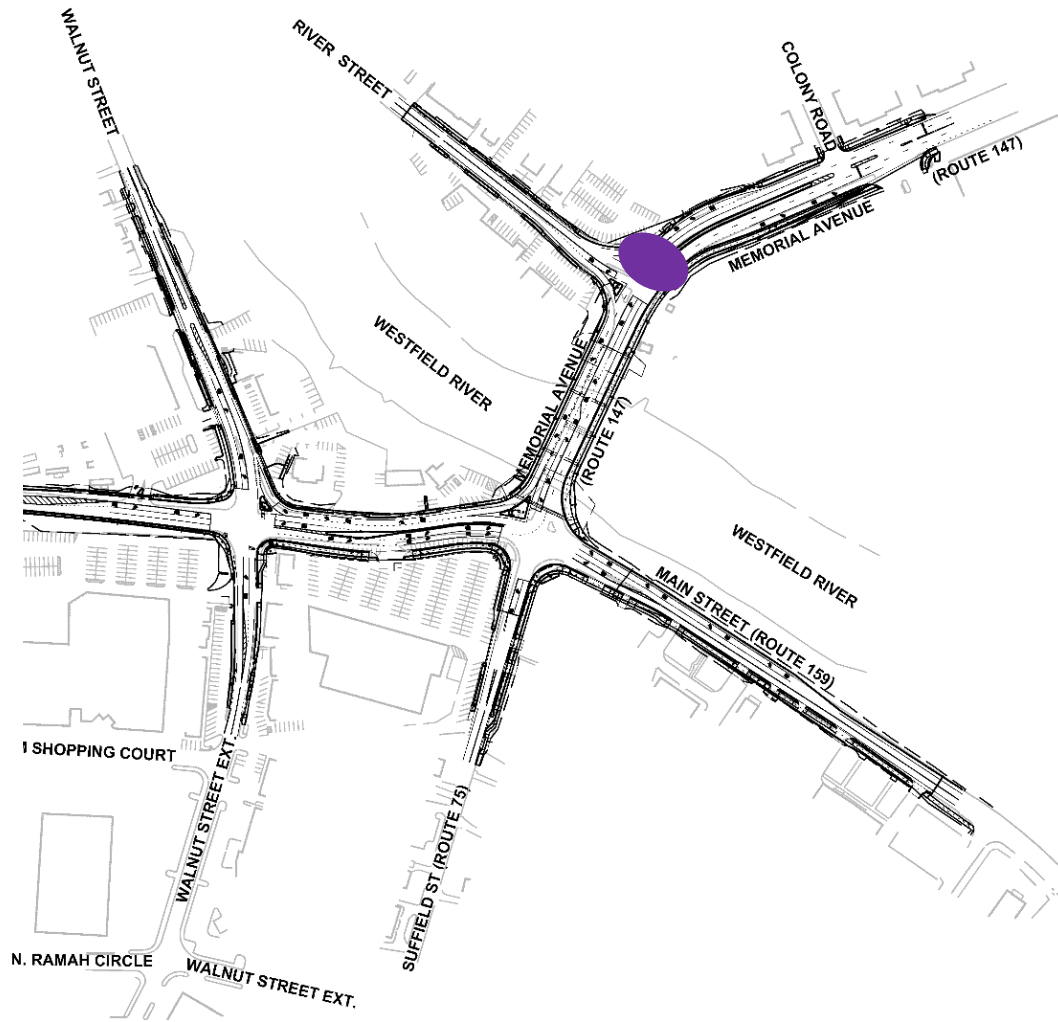
- 
- STAGE I (LOOKING NORTH)**  
SCALE: 1" = 1'-0"
- STAGE II (LOOKING NORTH)**

# CONSTRUCTION STAGING – ROAD WORK STAGE 1

## ROAD WORK STAGE 1:

October - November 2018

- Remove existing medians and pave with temporary asphalt.
- Install temporary traffic signals and pedestrian detours.
- Paint line striping for new traffic configuration.
- Install temporary barriers and fencing.
- Install drainage, water, electrical, and new permanent traffic signals.
- Relocate utility pole & overhead wires.

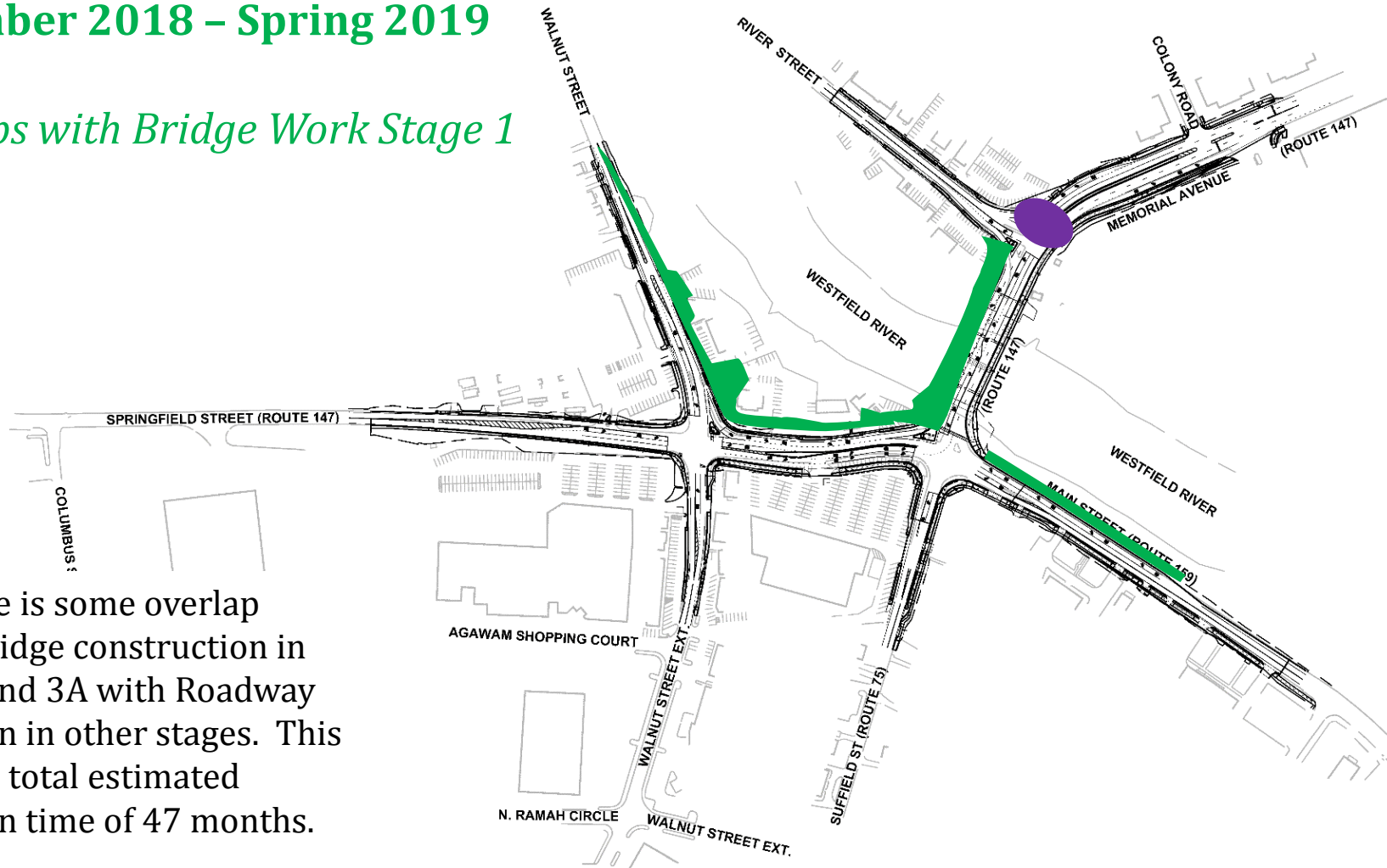




# CONSTRUCTION STAGING – ROAD WORK STAGE 2A

## ROAD WORK STAGE 2A: November 2018 – Spring 2019

*Overlaps with Bridge Work Stage 1*

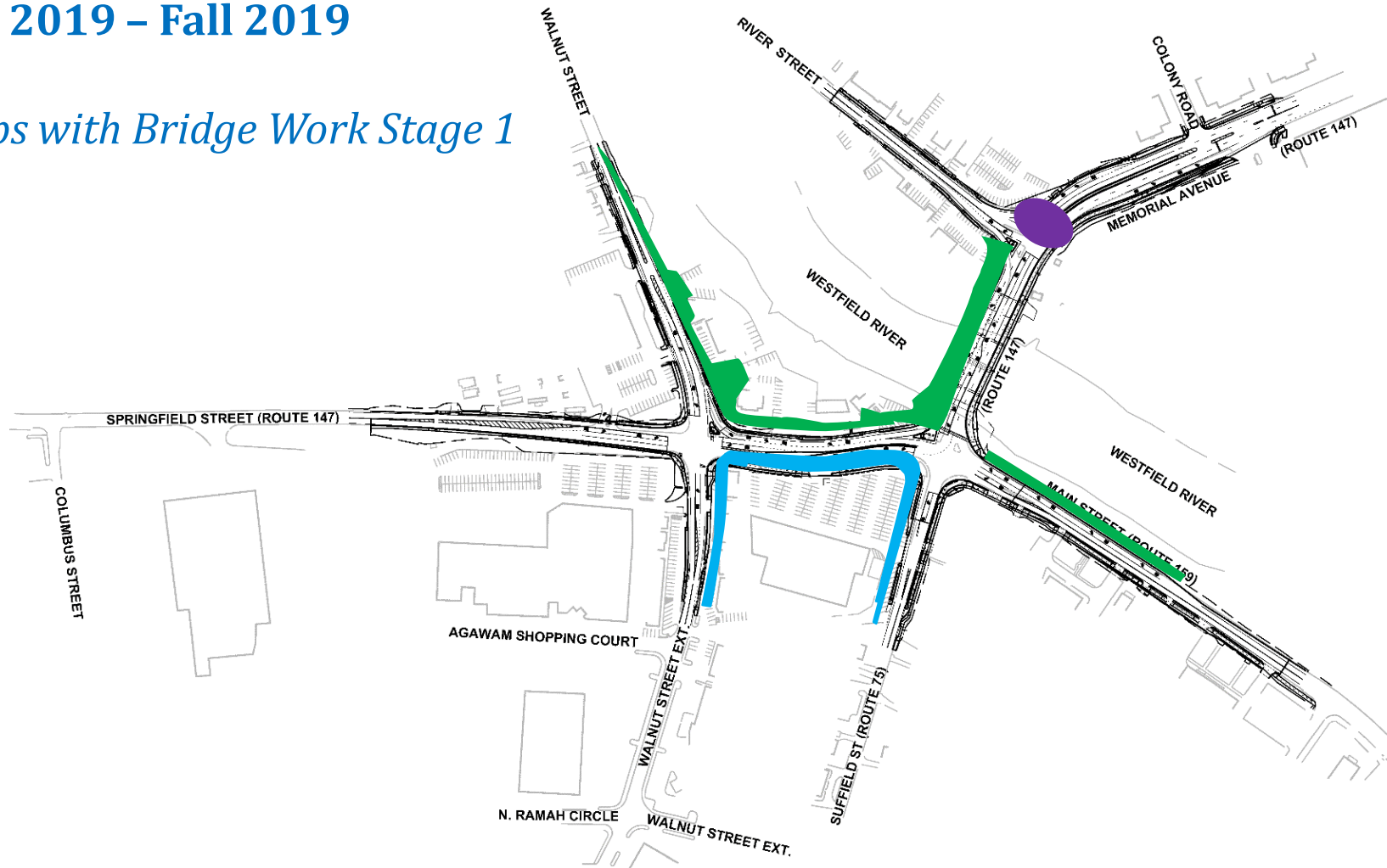


Note: There is some overlap between Bridge construction in Stages 2A and 3A with Roadway construction in other stages. This allows for a total estimated construction time of 47 months.

# CONSTRUCTION STAGING – ROAD WORK STAGE 2B

## ROAD WORK STAGE 2B: Spring 2019 – Fall 2019

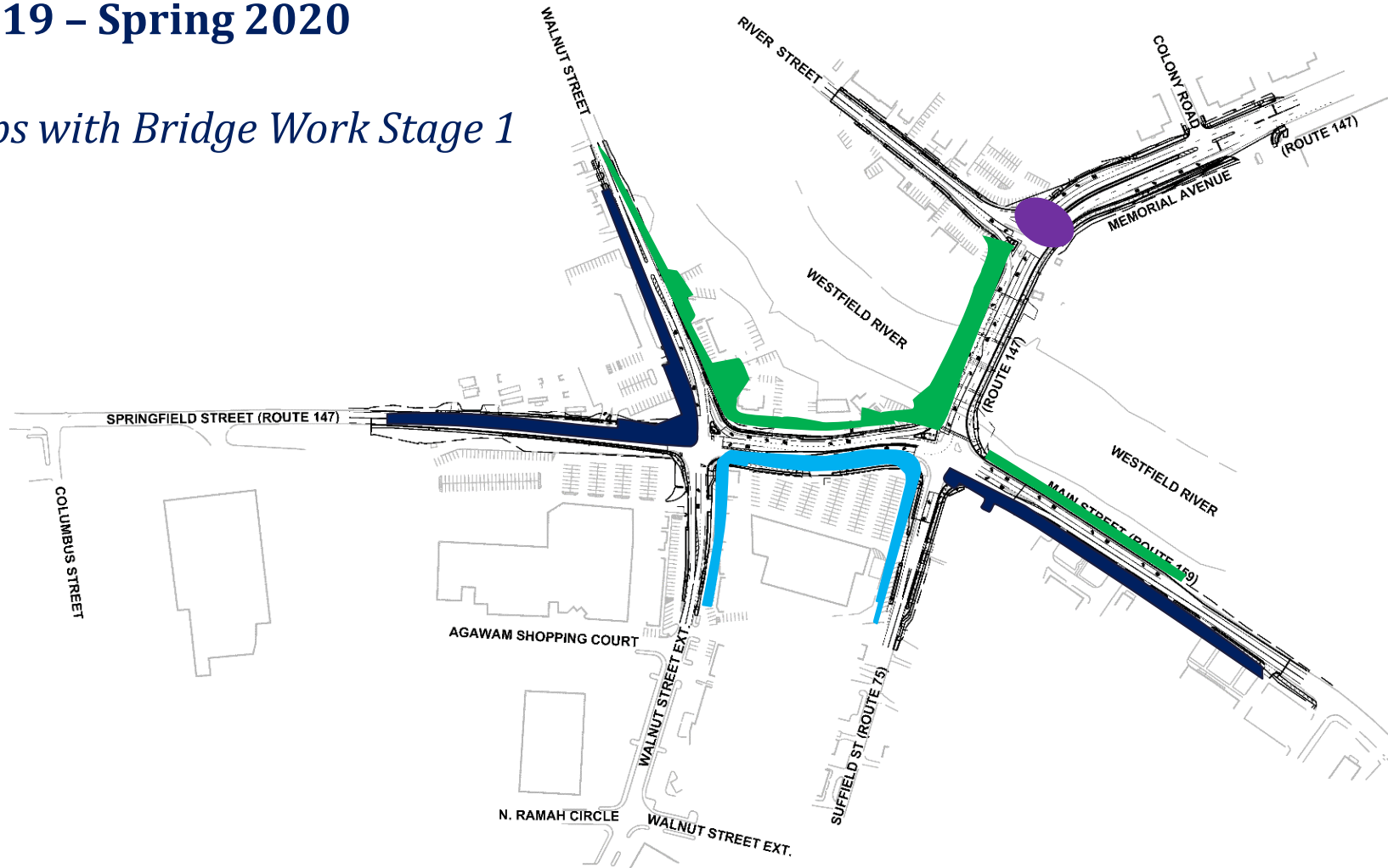
*Overlaps with Bridge Work Stage 1*



# CONSTRUCTION STAGING – ROAD WORK STAGE 2C

## ROAD WORK STAGE 2C: Fall 2019 – Spring 2020

*Overlaps with Bridge Work Stage 1*

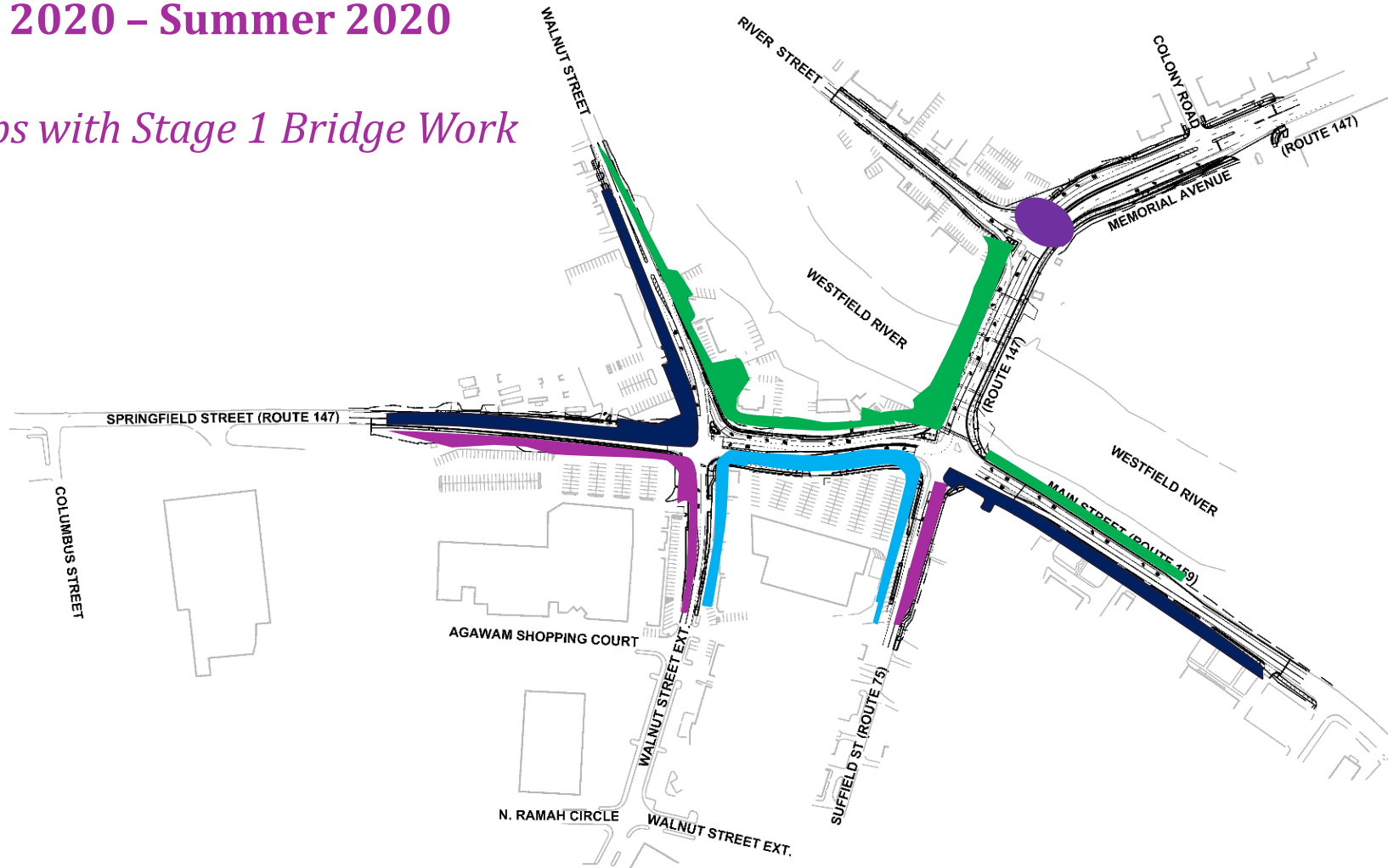




# CONSTRUCTION STAGING – ROAD WORK STAGE 2D

## ROAD WORK STAGE 2D: Spring 2020 – Summer 2020

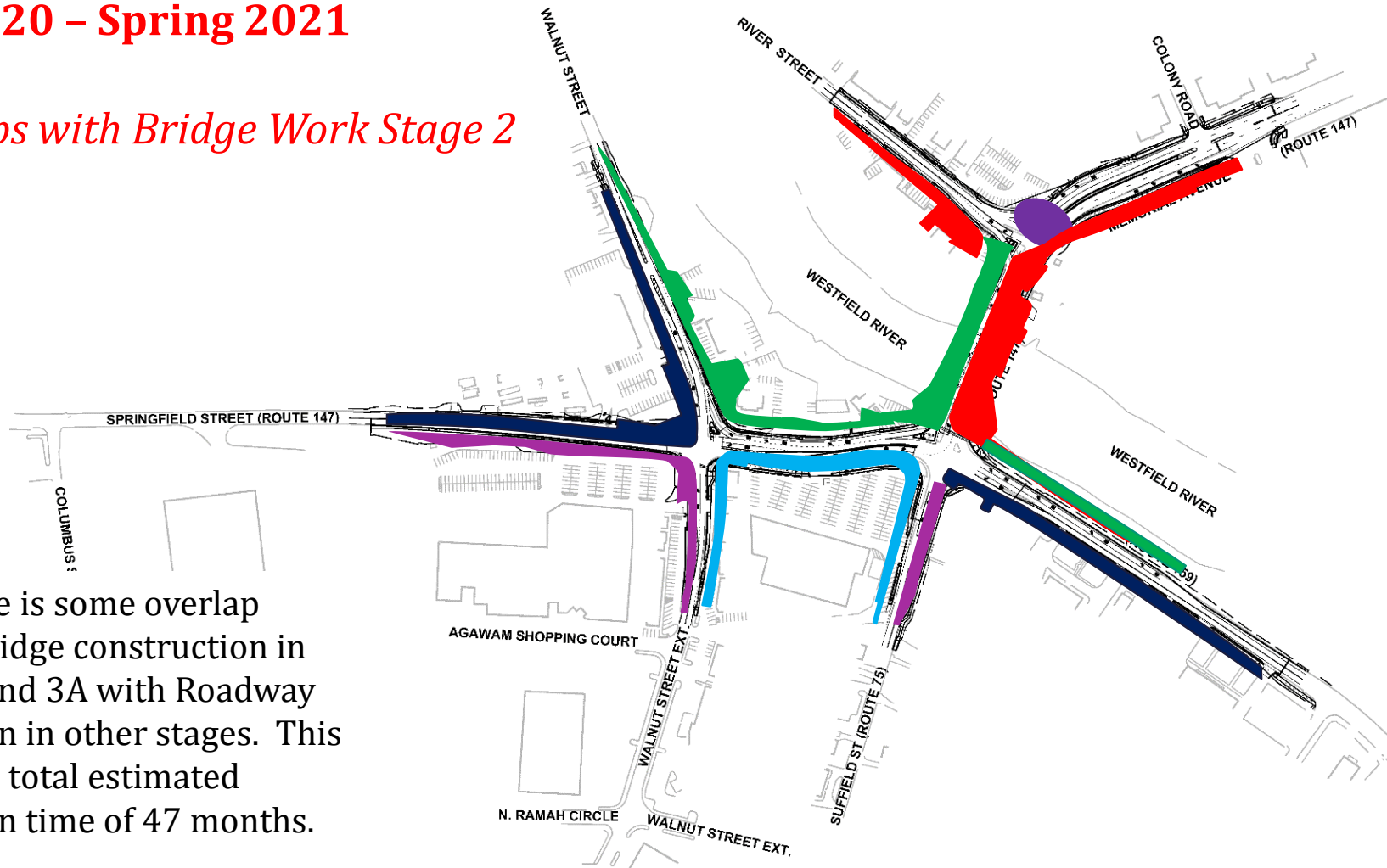
*Overlaps with Stage 1 Bridge Work*



# CONSTRUCTION STAGING – ROAD WORK STAGE 3A

**ROAD WORK STAGE 3A:**  
**Fall 2020 – Spring 2021**

*Overlaps with Bridge Work Stage 2*

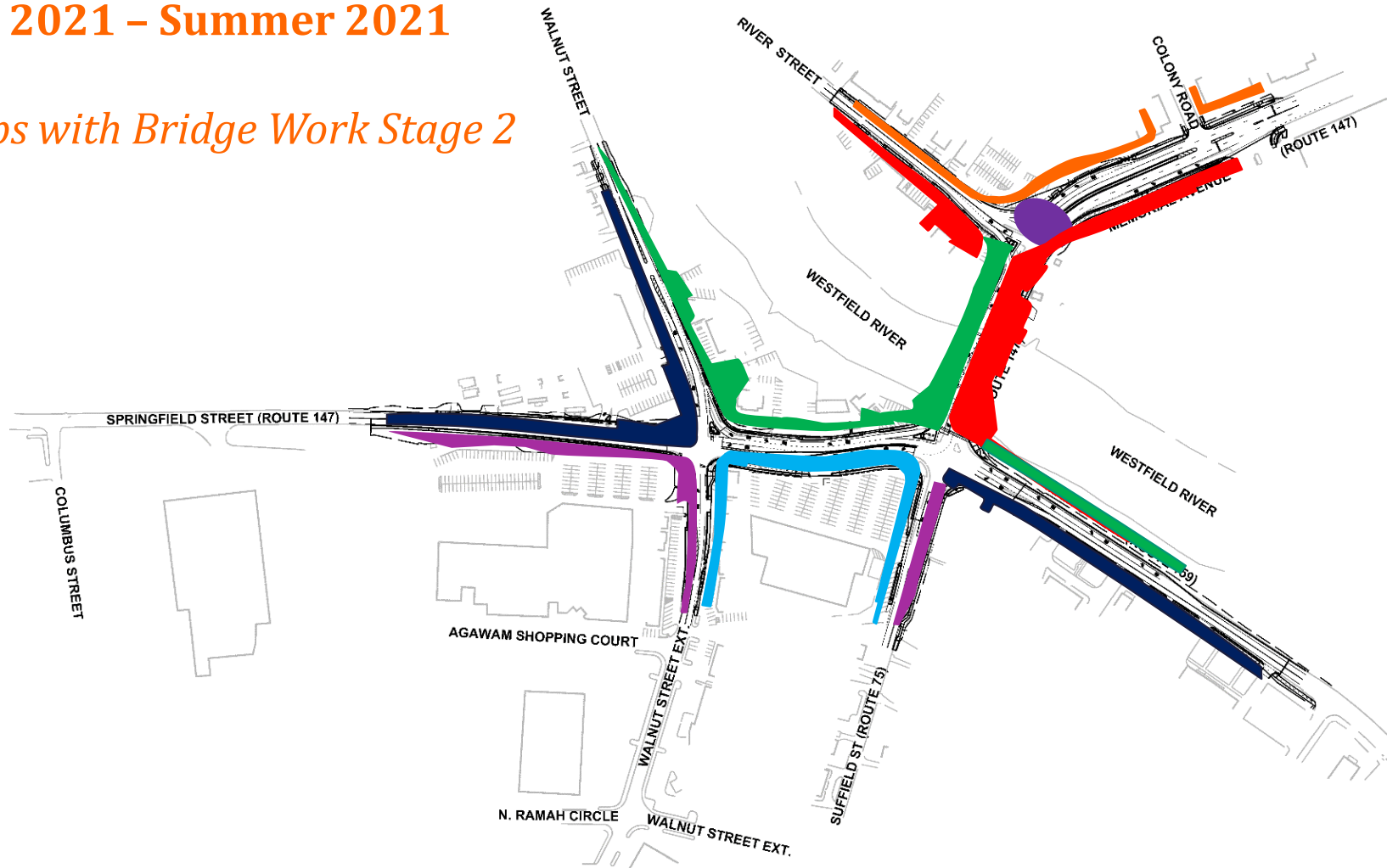


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# CONSTRUCTION STAGING – ROAD WORK STAGE 3B

**ROAD WORK STAGE 3B:**  
**Spring 2021 – Summer 2021**

*Overlaps with Bridge Work Stage 2*

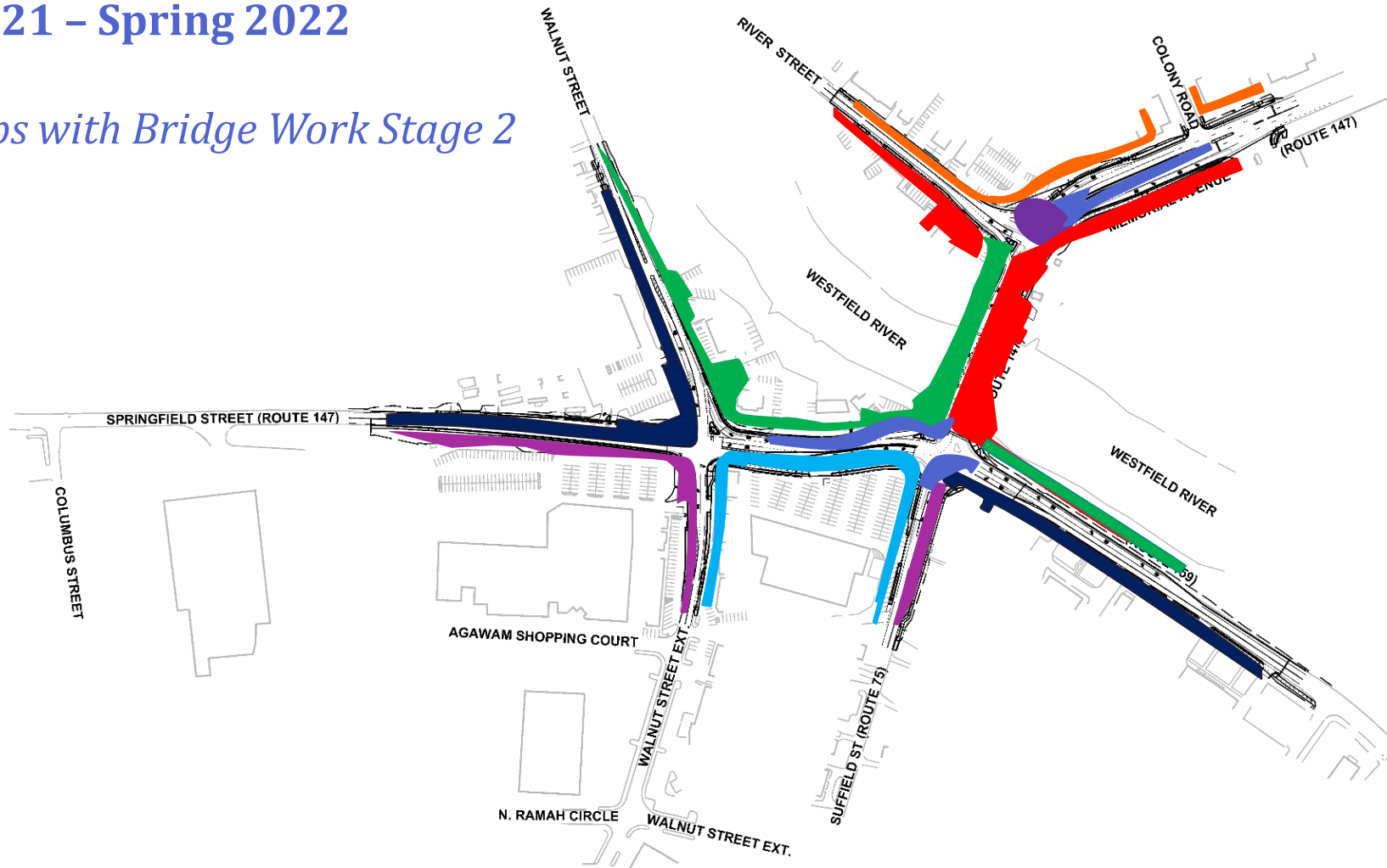




# CONSTRUCTION STAGING – ROAD WORK STAGE 4

## ROAD WORK STAGE 4: Fall 2021 – Spring 2022

*Overlaps with Bridge Work Stage 2*





# TRAFFIC MANAGEMENT

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- One lane of travel in each direction is expected to remain in place 24/7 starting in October 2018.
- The new bridge is projected to open to four lanes in late 2021.
- Regular work hours are 7:00 AM to 3:30 PM.
- Additional work on nights and weekends to avoid traffic impacts.
- Detours will be minimized
  - May be required for steel erection, demolition, and deck repairs.
  - During Bridge Work Stage 2: Detour for westbound **truck** traffic on Main St. (Rt. 159) wishing to turn right onto Memorial Ave. (Rt. 147).
  - Will be announced with email traffic advisories and press releases.



# TRAFFIC MITIGATION

- Traffic Mitigation Plans.
- Police details provided at critical intersections during peak periods, if needed.
- MassDOT will monitor traffic daily.
  - Also exploring a traffic monitoring system at Bridge St.
- Access to local businesses will be maintained at all times.



# PUBLIC OUTREACH

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- Regularly updated project website.
- Email advisories (with project updates, traffic changes, and press releases).
- Responses to inquiries.
- Translated materials and interpreters available upon request.



## CONTACT US

Email us your questions or comments at:  
**[MorganSullivanBridge@dot.state.ma.us](mailto:MorganSullivanBridge@dot.state.ma.us)**

**Subscribe to project emails for the latest  
project information on the website:**

**[www.mass.gov/morgan-sullivan-bridge-replacement-project](http://www.mass.gov/morgan-sullivan-bridge-replacement-project)**



Thank you for attending.  
QUESTIONS?