



Manage our Resources



Explore Innovative Solutions



Protect our Environment



Preserve our Community

CITY OF PORTSMOUTH WASTEWATER DIVISION

PARKING, TRAFFIC AND SAFETY COMMITTEE

MARCH 3, 2016

## Topics for Discussion

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- Project Information & Status
- Vehicle Description
- Construction Access Routes
- Estimated Frequency
- Downtown Locations
- Peirce Island Temporary Staging Areas
- Questions & Answers



## Project Information & Status

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- Major upgrade of Peirce Island WWTF mandated by EPA
- 100% Design Complete
- Construction between July 2016 and September 2020



# Anticipated Construction Vehicles

- Pickup Trucks
- Delivery Trucks
- Concrete Trucks
- Dump Trucks
- Tractor Trailers
- “Low-Boy” Trailers
- Cranes
- Others



# Construction Vehicles

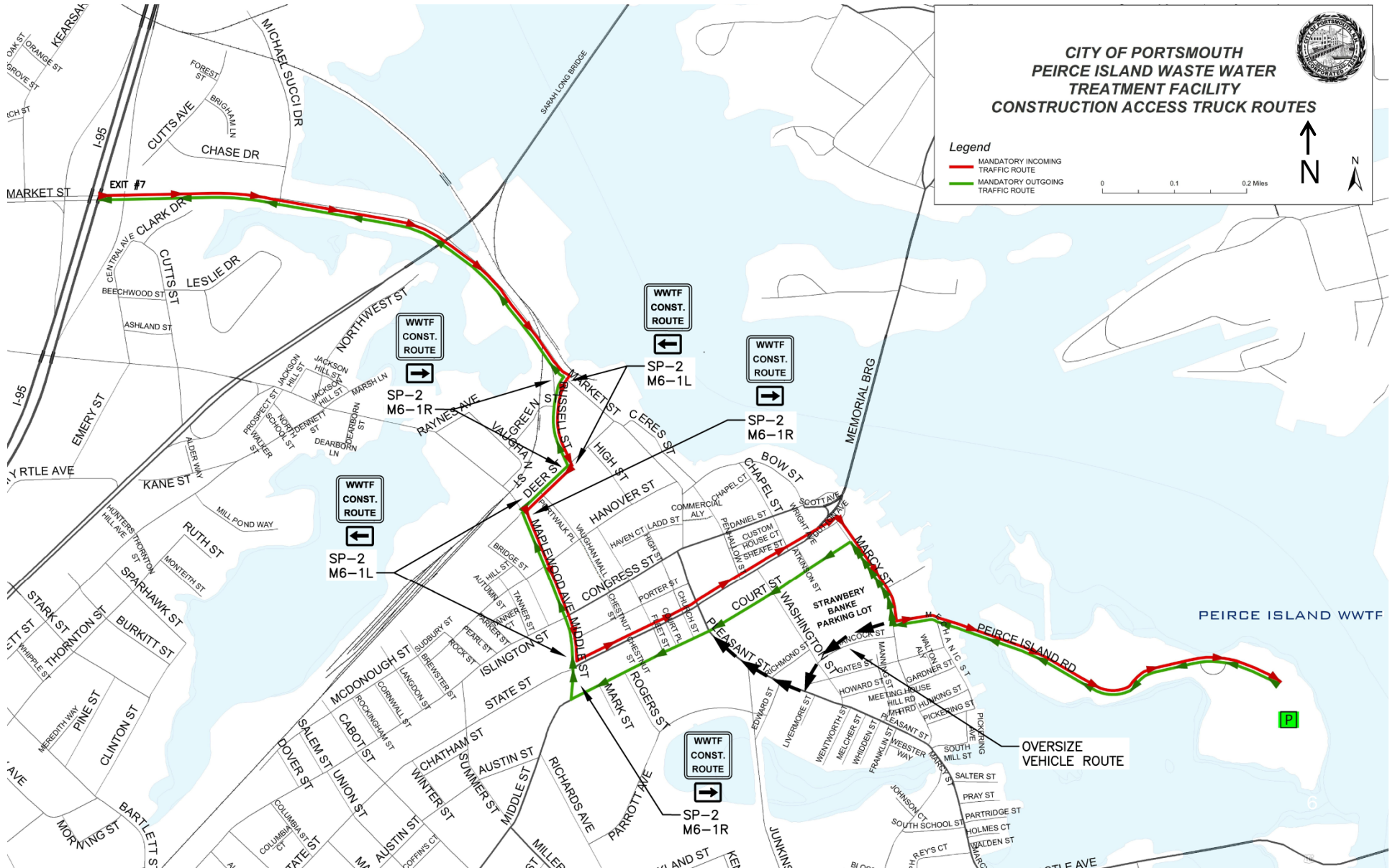
- “Design” Vehicles
  - WB-50
    - 42.5 ft. Trailer
    - Short Cab



- WB-67
  - 53 ft. Trailer
  - Extended Cab



# Construction Access Routes



# Estimated Construction Vehicle Frequency

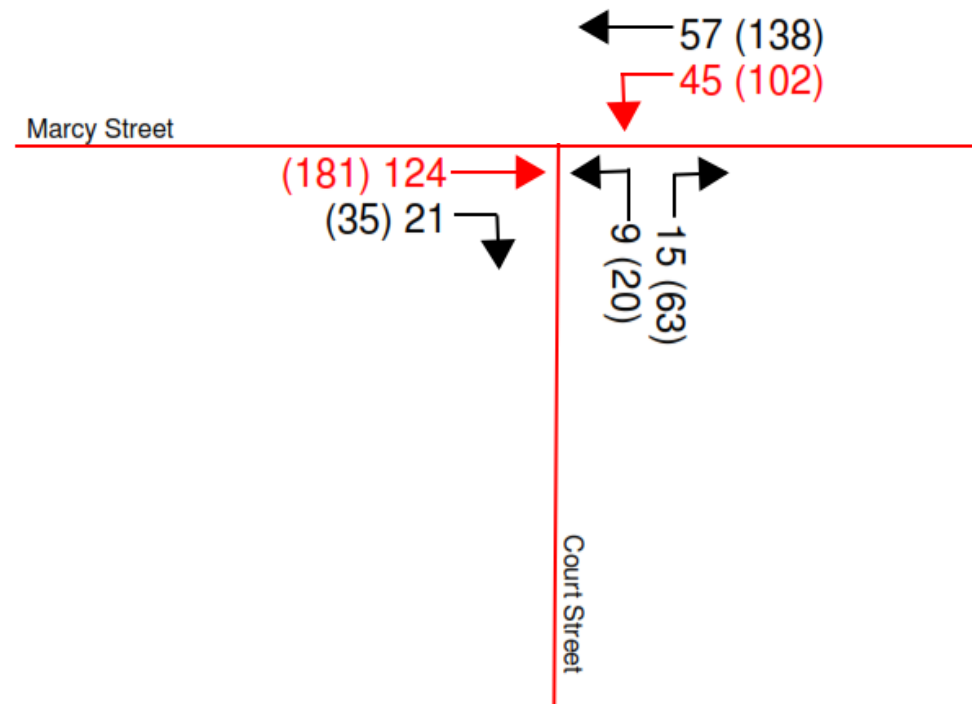
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Total One-Way Trips Over 51 Months	Average Daily One-Way Trips Per Month	Peak Daily One-Way Trips Per Month	Peak One-Way Trip Frequency (min)
20,000 - 25,000	5 - 91	8 - 137	3 - 53



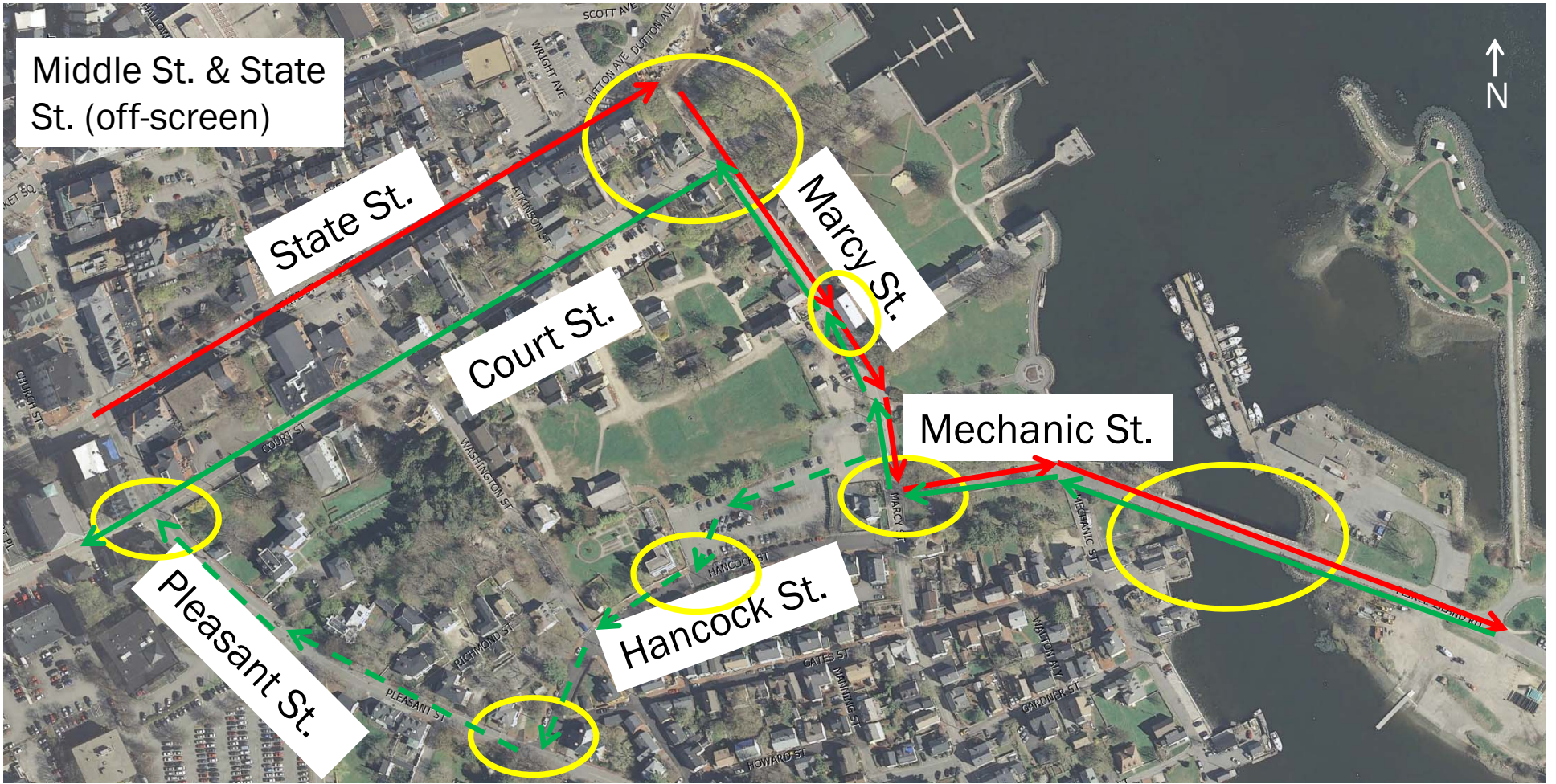
# Traffic Counts at Court St. and Marcy St.

- Design Hour Construction Analysis
  - Normal Traffic Growth
  - Assumes 15 Construction Vehicles Per Hour (One Every 4 Minutes)
- Performed Queue Analysis
  - Used 100 Pedestrians Crossing Each Leg Per Hour
  - Maximum Queue: 145 Feet on the Marcy St. Northbound Approach



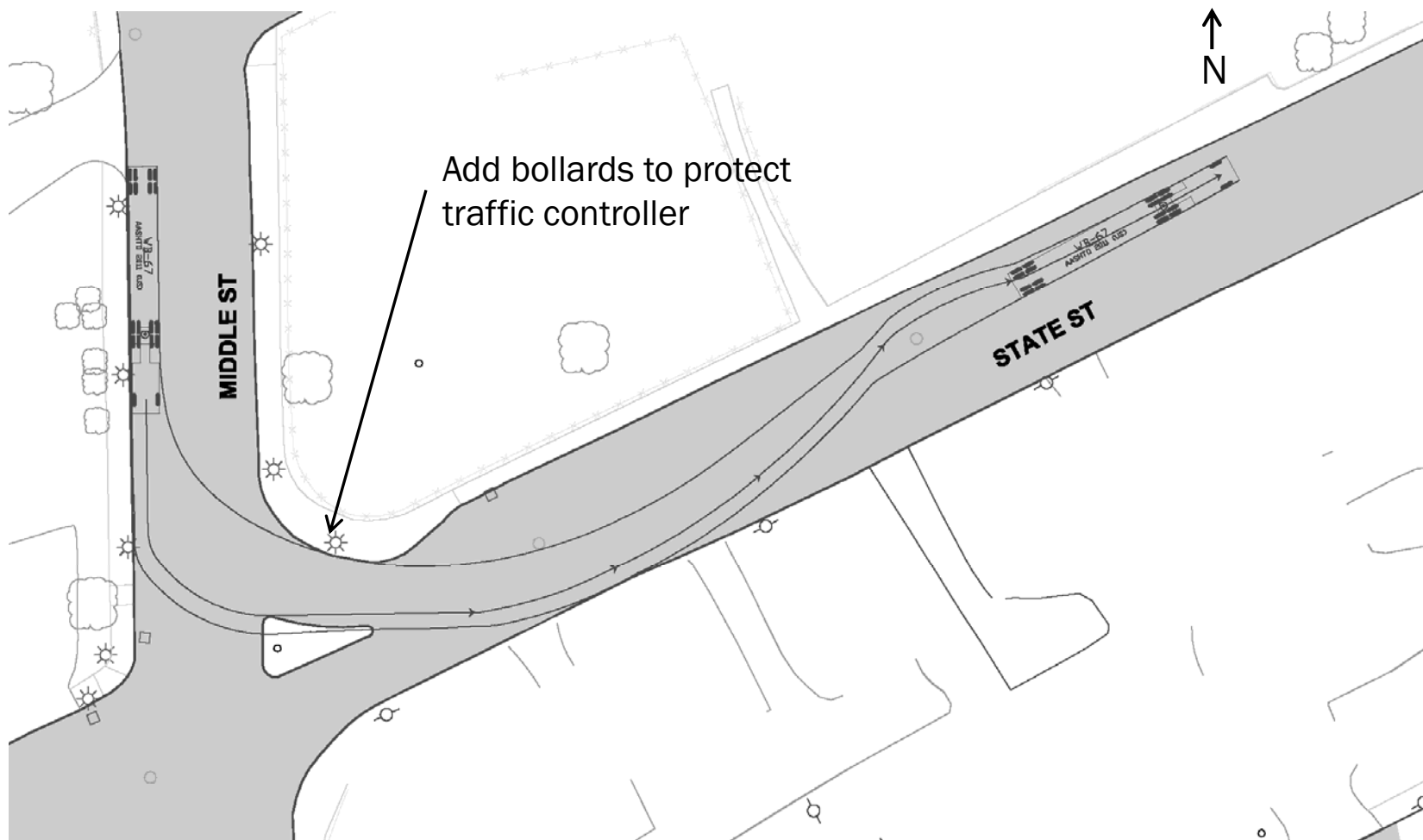


# Downtown Locations



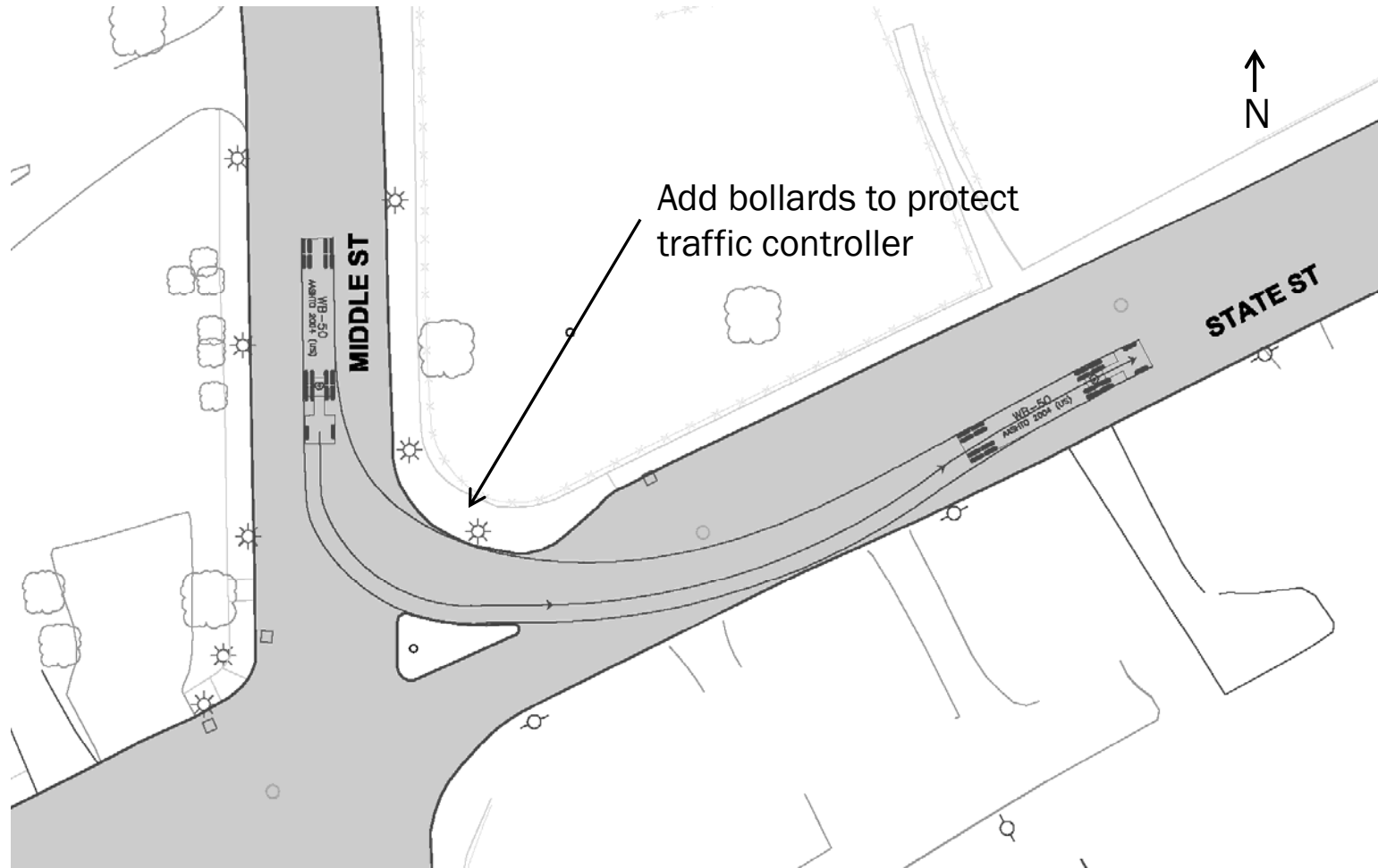
## Downtown Locations – Middle St. & State St.

- WB-67



# Downtown Locations – Middle St. & State St.

- WB-50



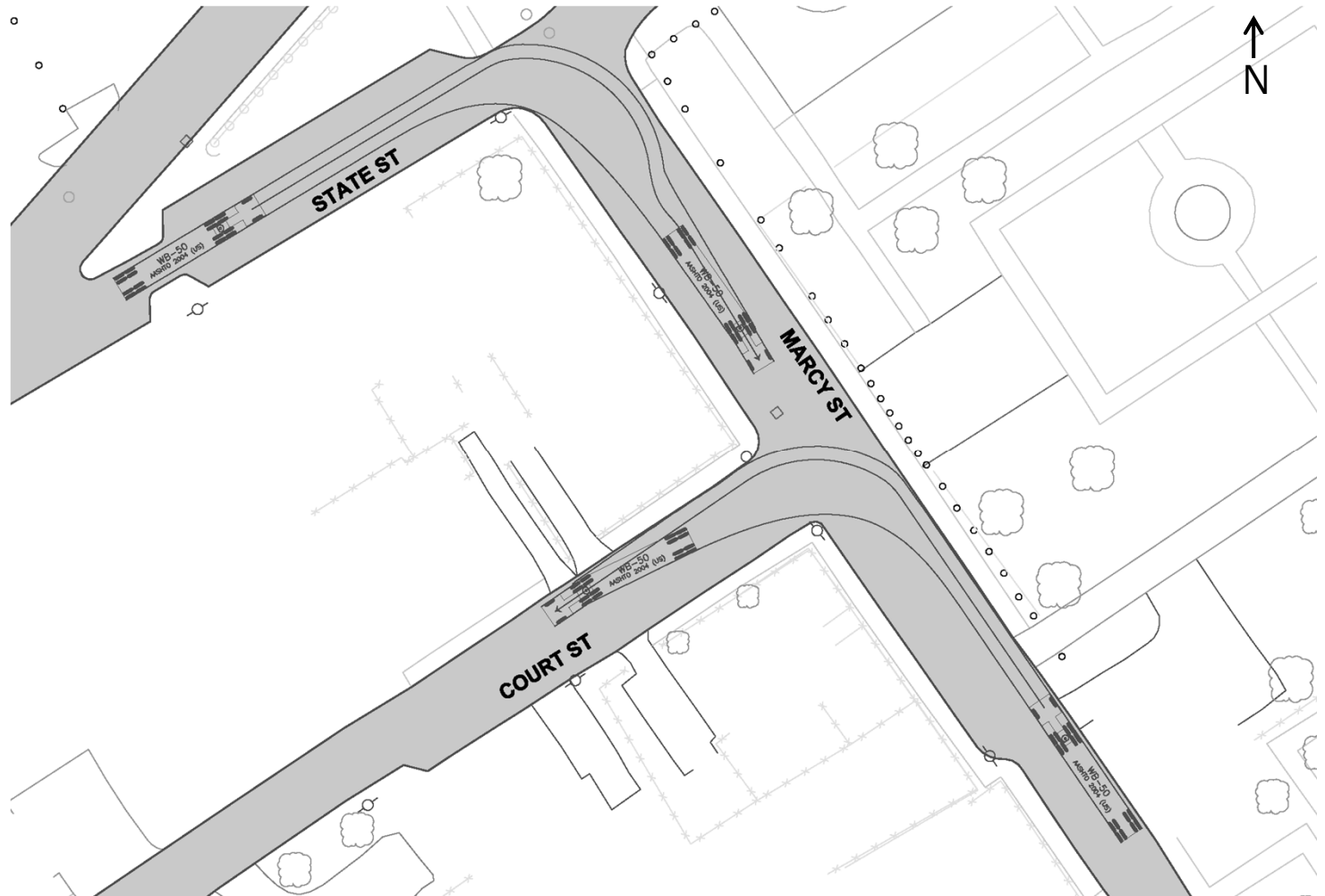
# Downtown Locations – State St., Court St. & Marcy St.

- WB-67

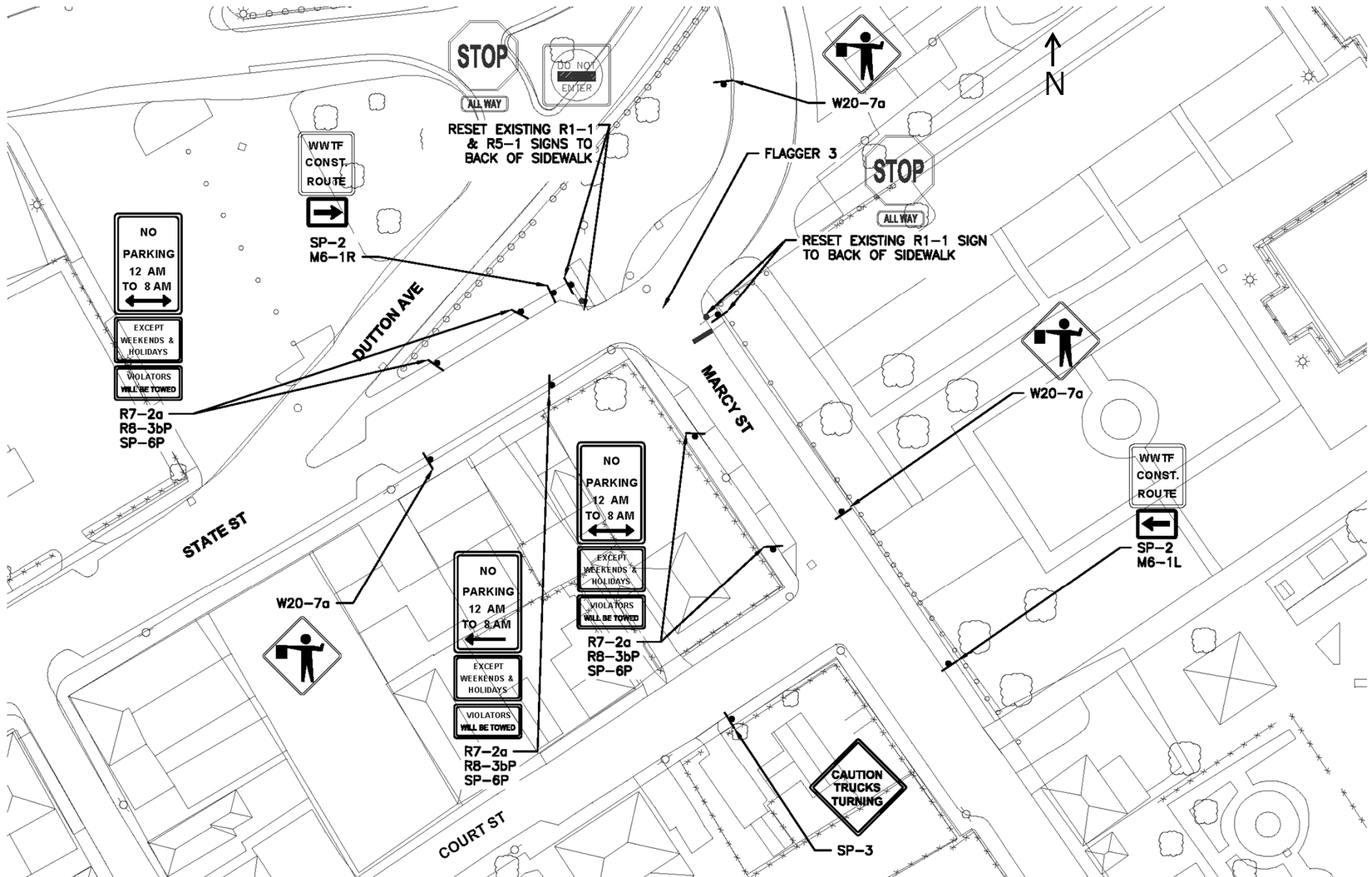


# Downtown Locations – State St., Court St. & Marcy St.

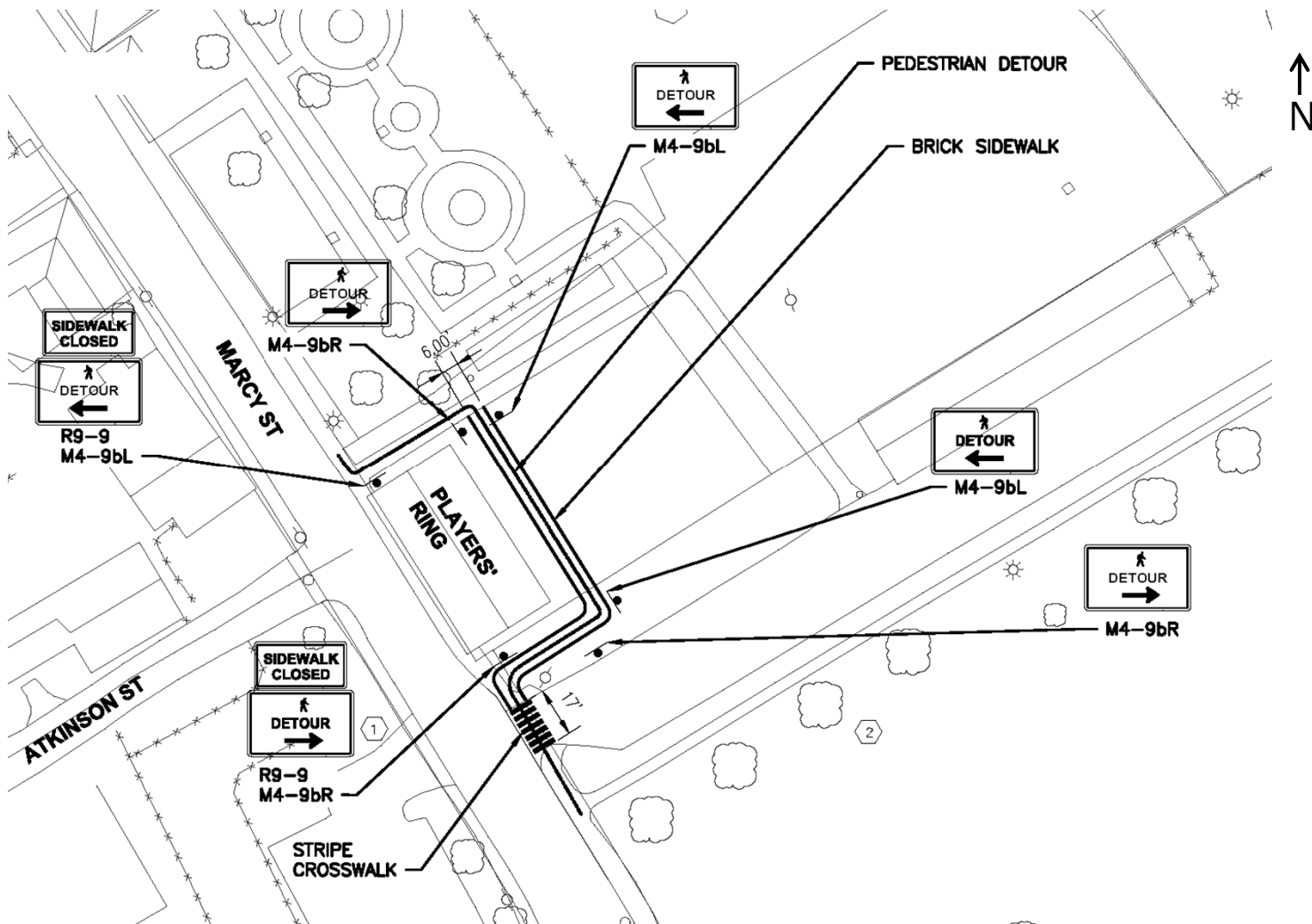
- WB-50 ◦



# Downtown Locations – State St., Court St. & Marcy St.

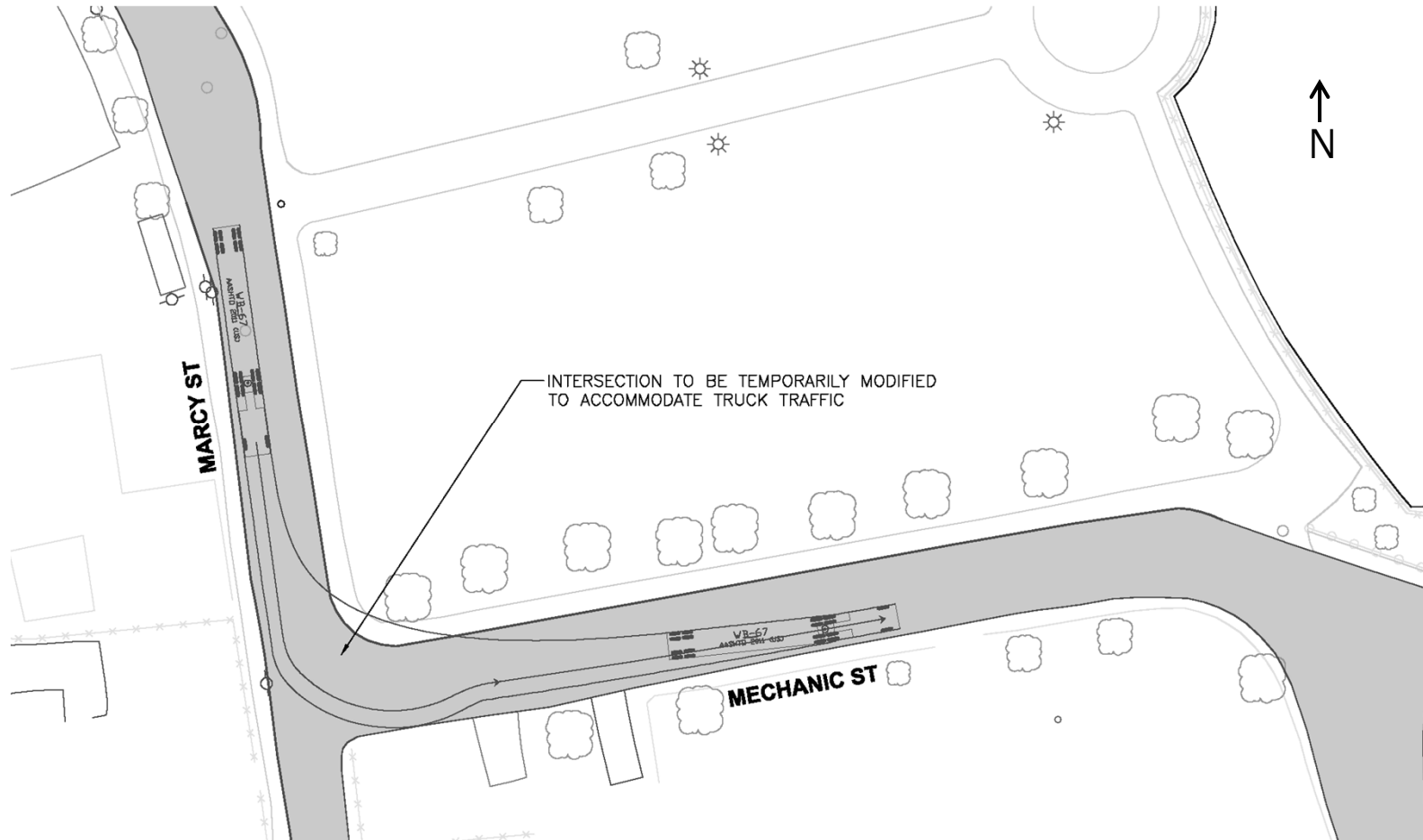


# Downtown Locations– Marcy St.



# Downtown Locations– Marcy St. & Mechanic St.

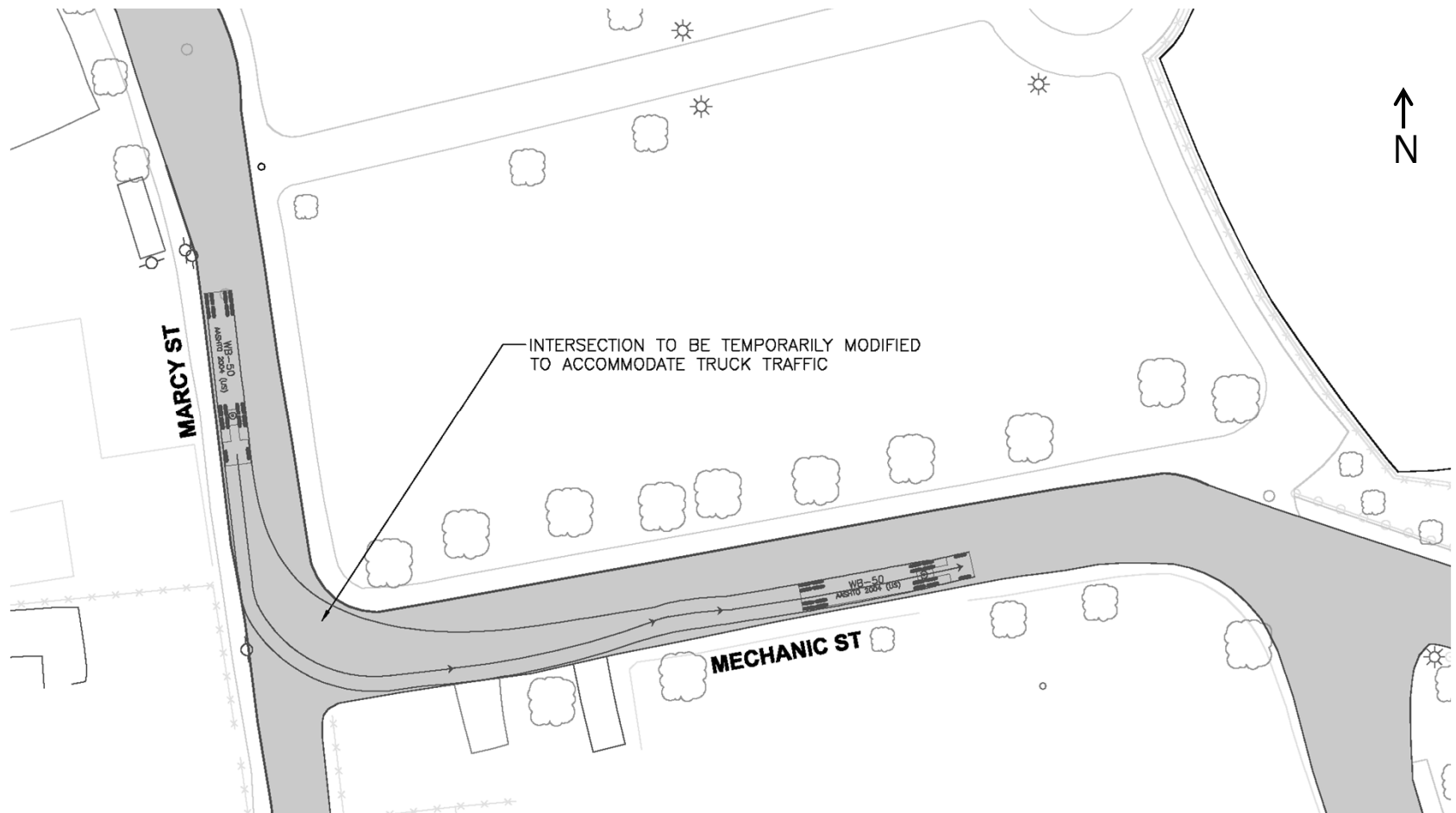
- Incoming WB-67





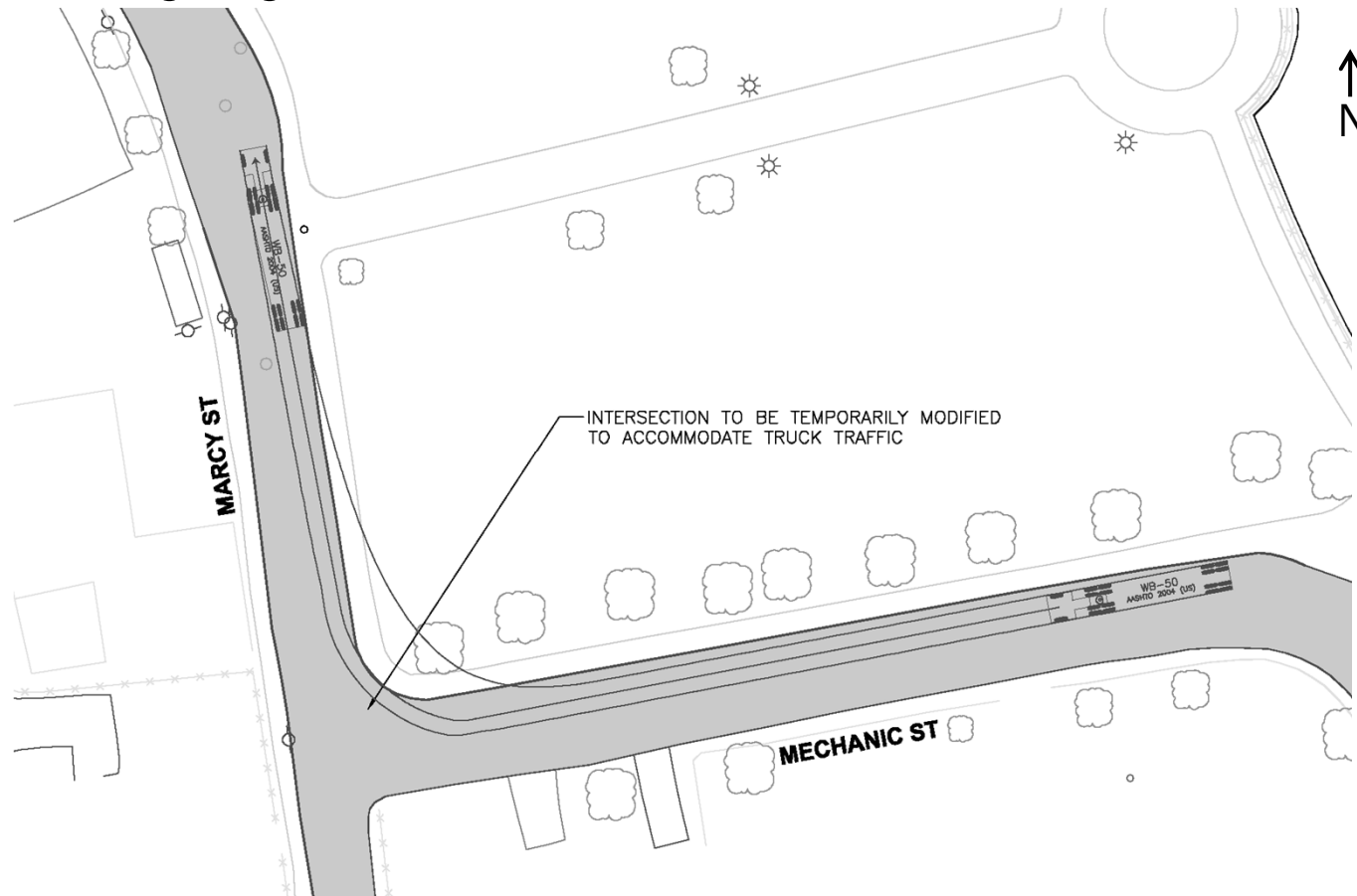
# Downtown Locations– Marcy St. & Mechanic St.

- Incoming WB-50

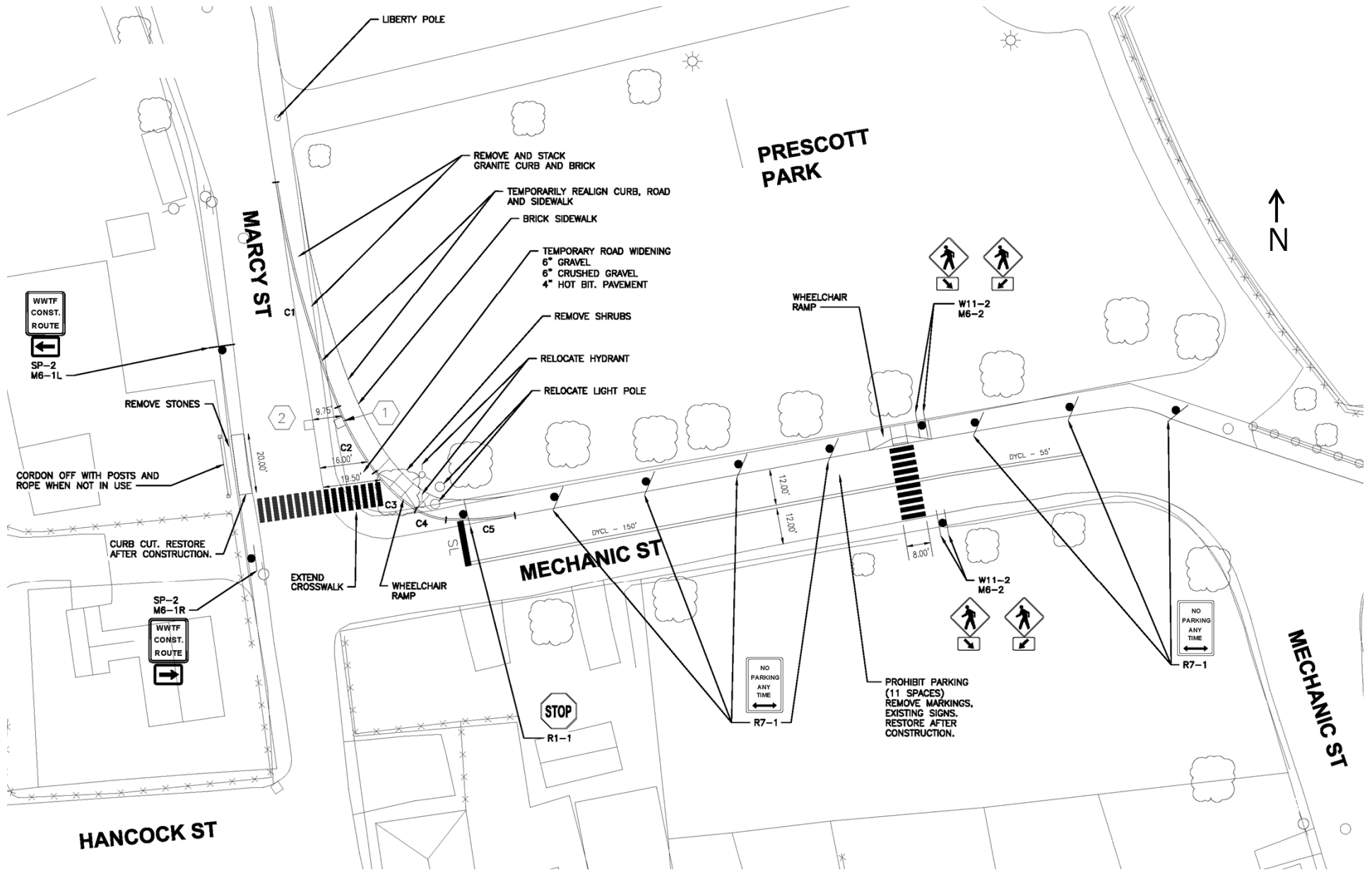


# Downtown Locations– Marcy St. & Mechanic St.

- Outgoing WB-50

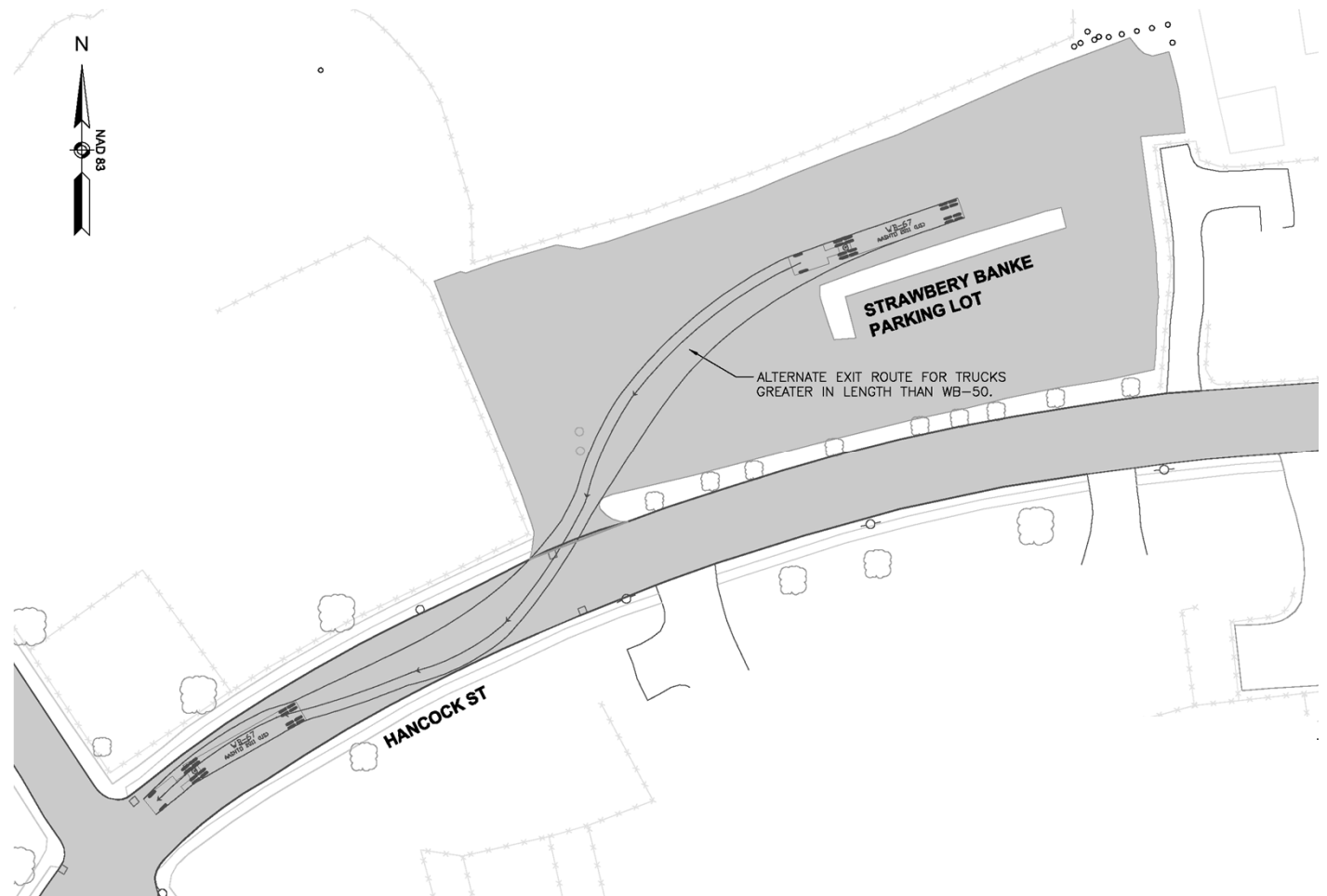


# Downtown Locations– Marcy St. & Mechanic St.

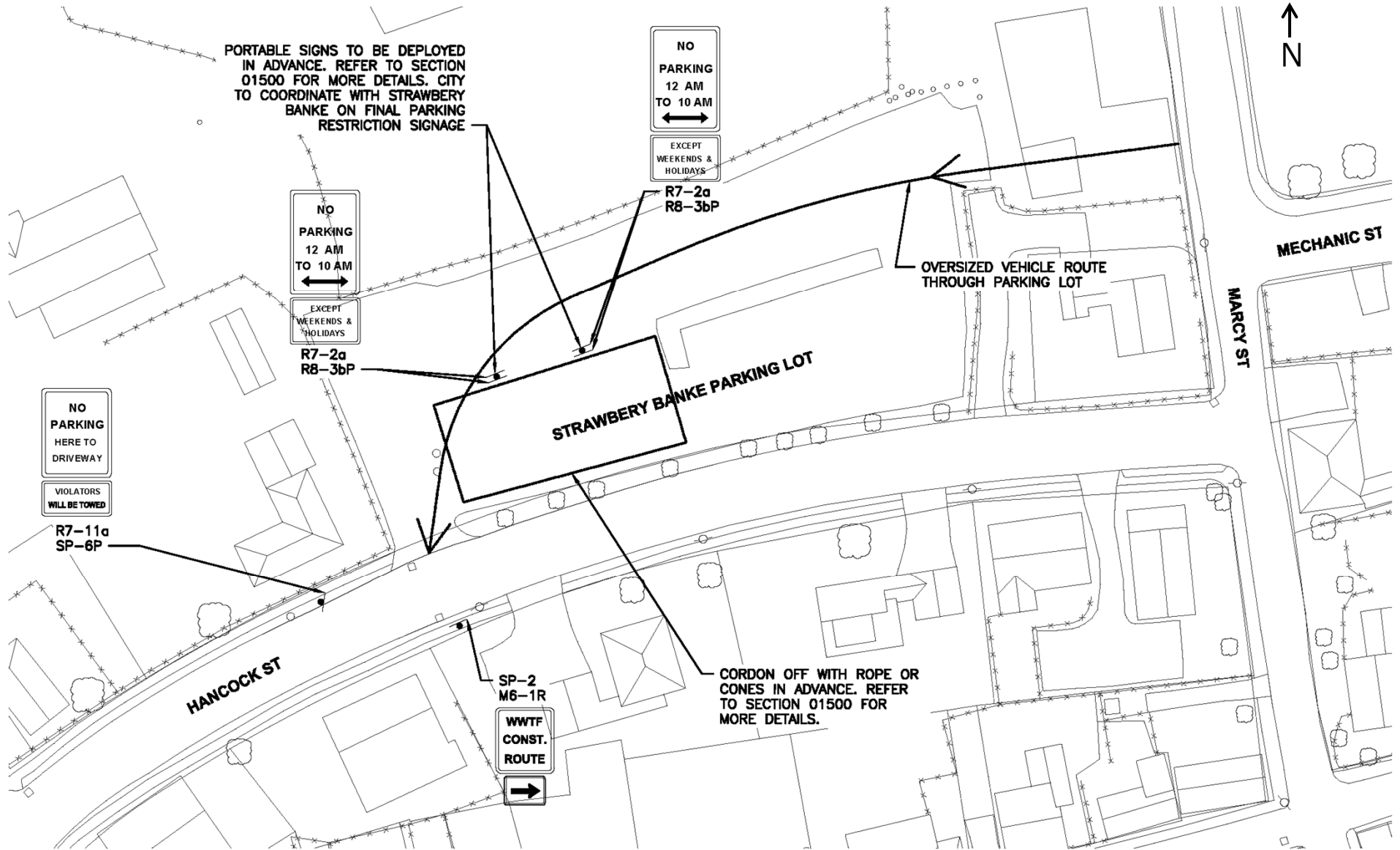


# Downtown Locations– Strawberry Banke

- Outgoing WB-67

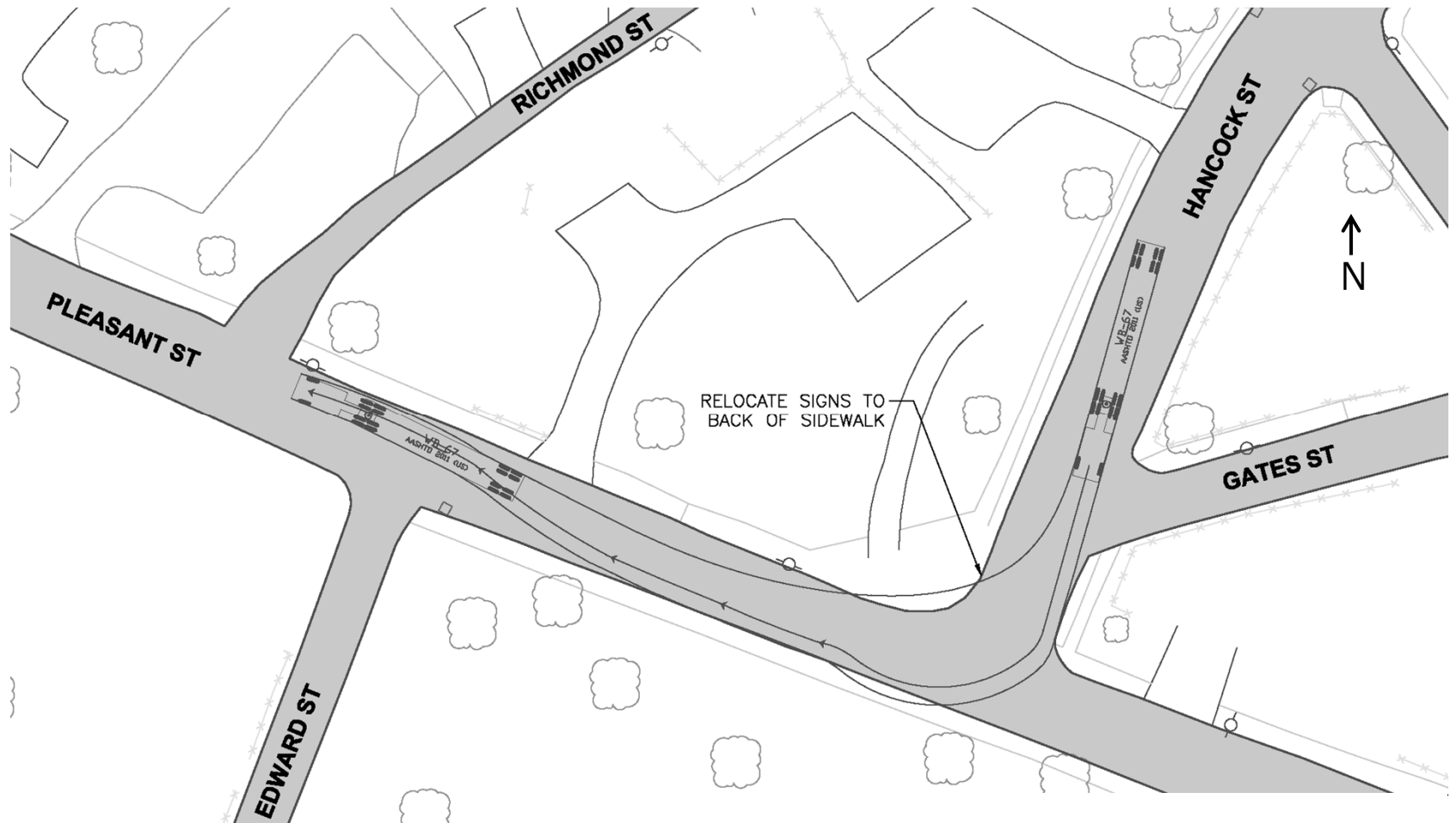


# Downtown Locations– Strawberry Banke

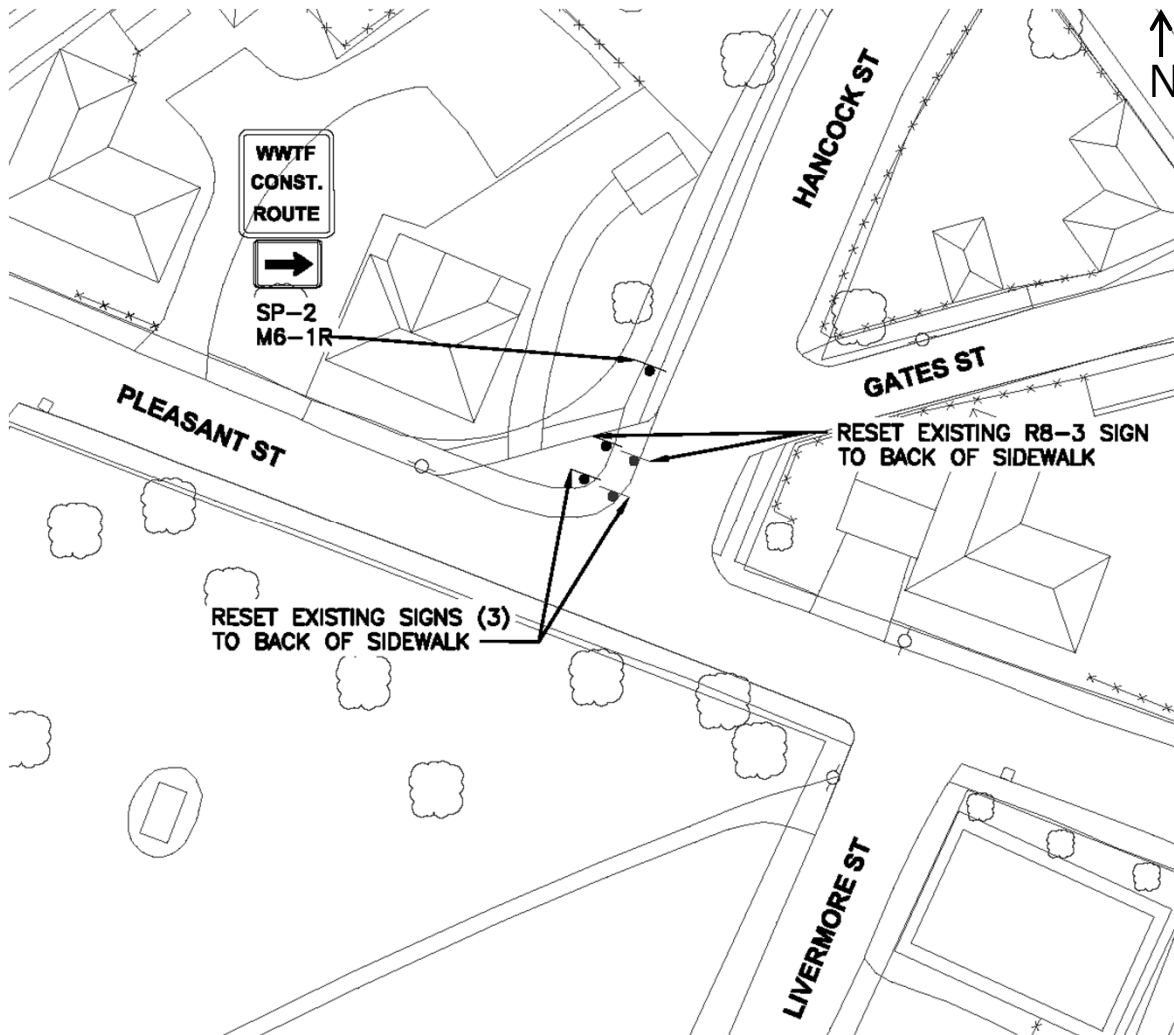


# Downtown Locations – Hancock St. & Pleasant St.

- Outgoing WB-67

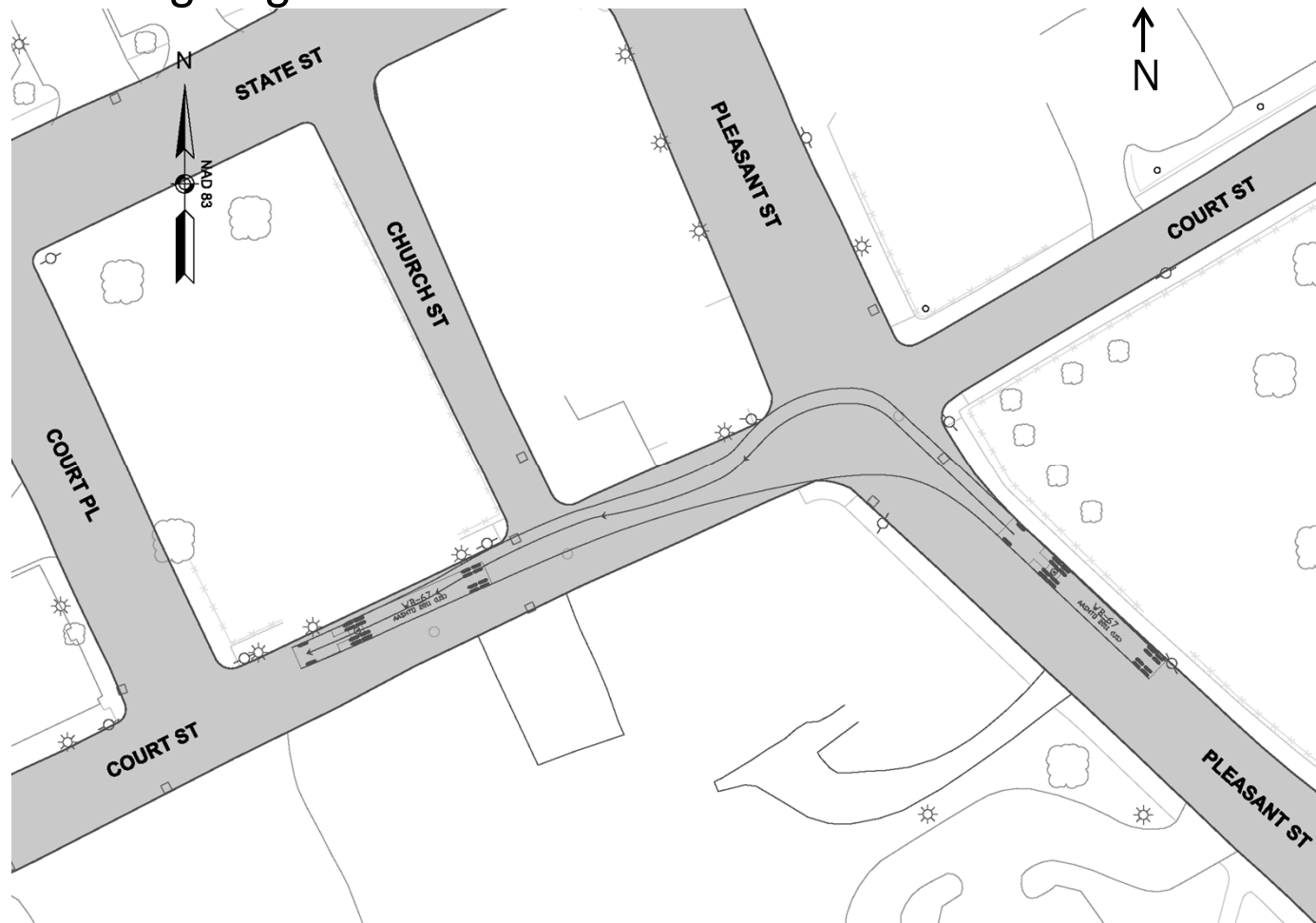


# Downtown Locations– Hancock St. & Pleasant St.



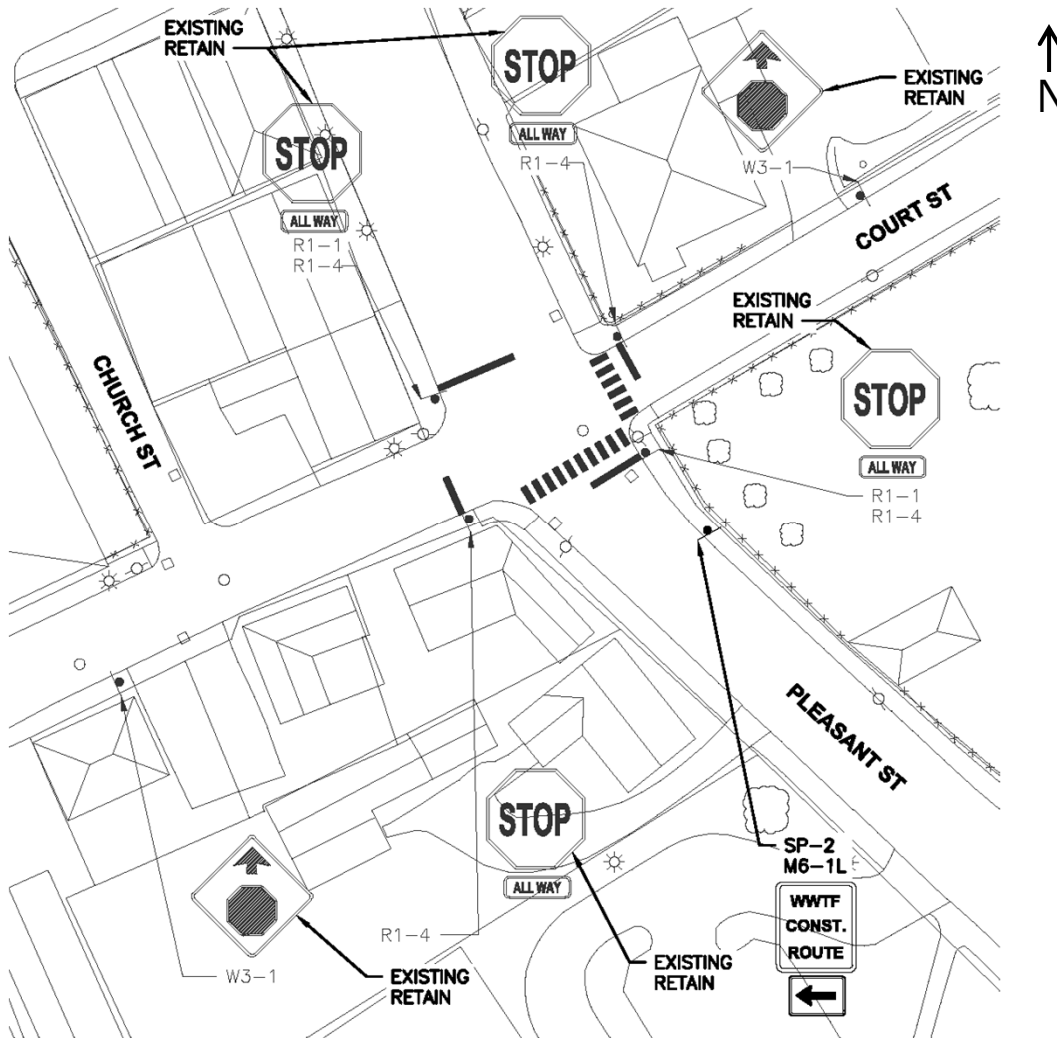
# Downtown Locations–Pleasant St. & Court St.

- Outgoing WB-67

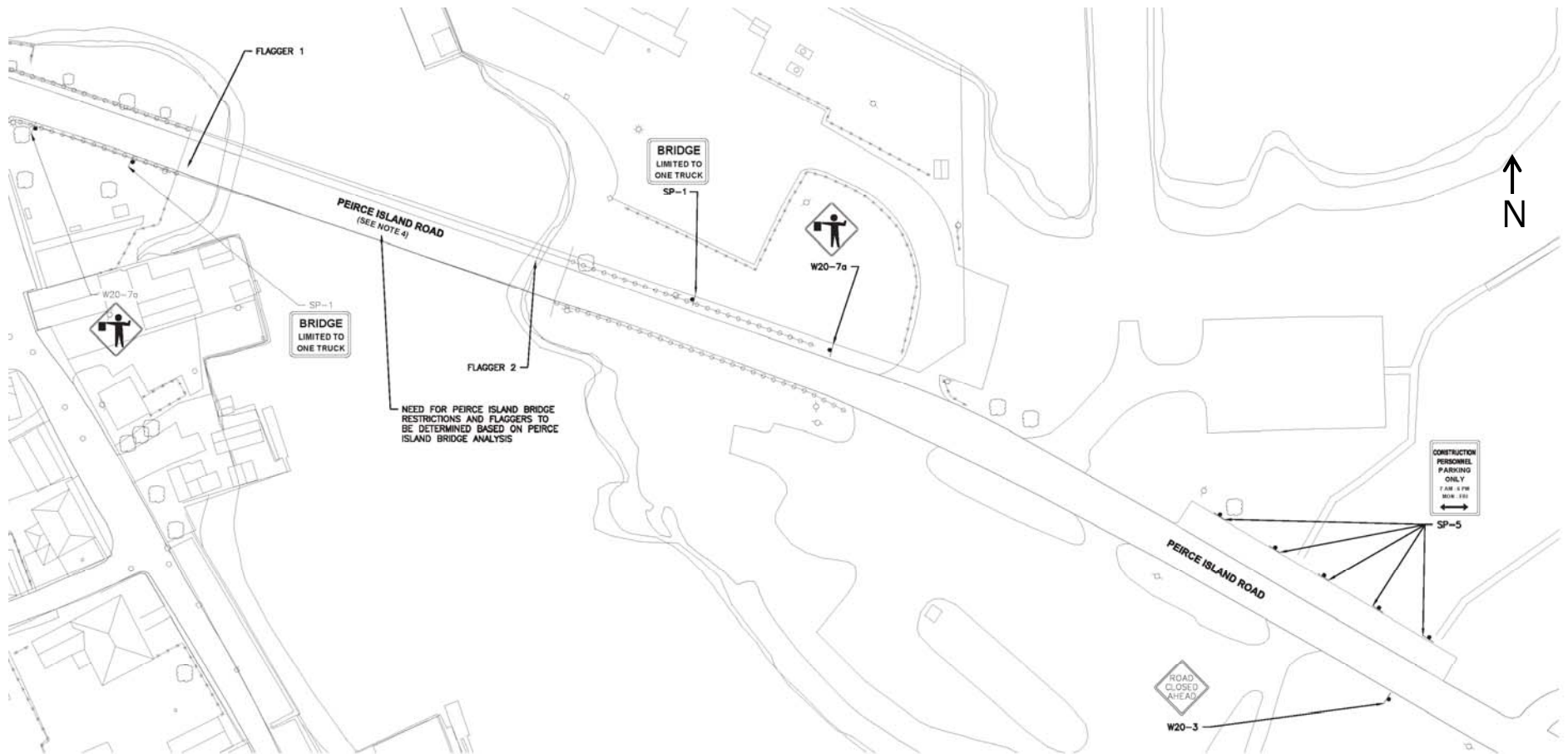




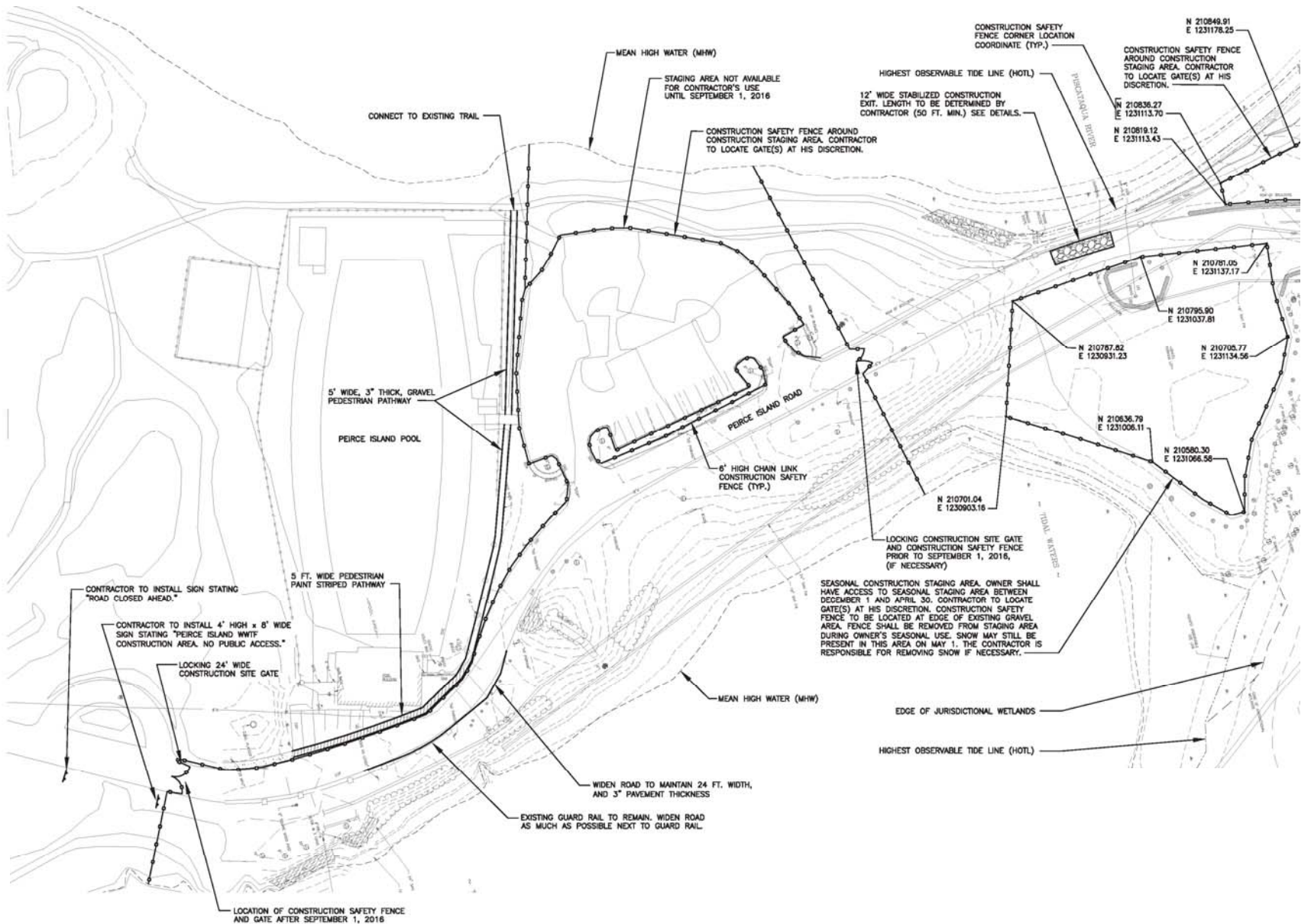
# Downtown Locations–Pleasant St. & Court St.



# Downtown Locations– Peirce Island Bridge



# Peirce Island Temporary Staging Areas



# Questions and Answers

