



Route 18 Corridor Study Update East Bridgewater, Bridgewater

JTC Item 7B – Oct 6, 2022



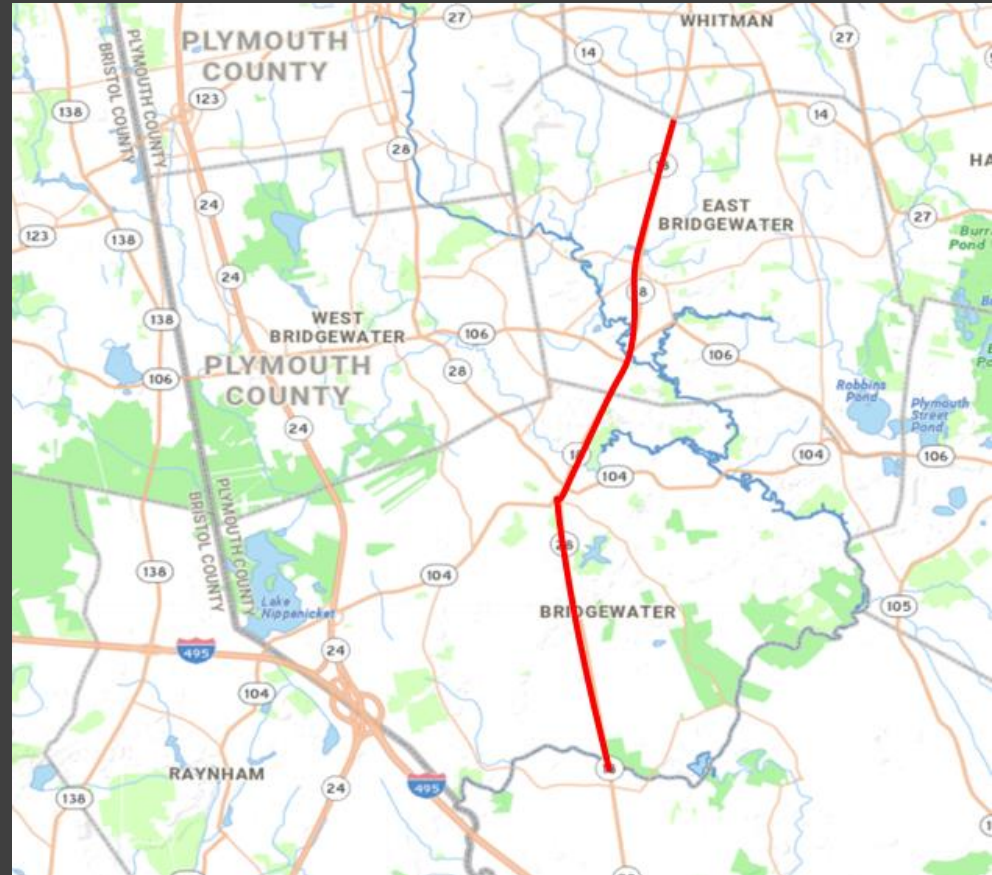
Route 18 Corridor Study Purpose and Scope

Develop short-term and long-term recommendations (specific improvement projects) to decrease traffic congestion and improve safety, circulation, and mobility for all road users (including bicyclists and walkers), as well as coordinate planned transportation improvements with planned economic development and land use changes.

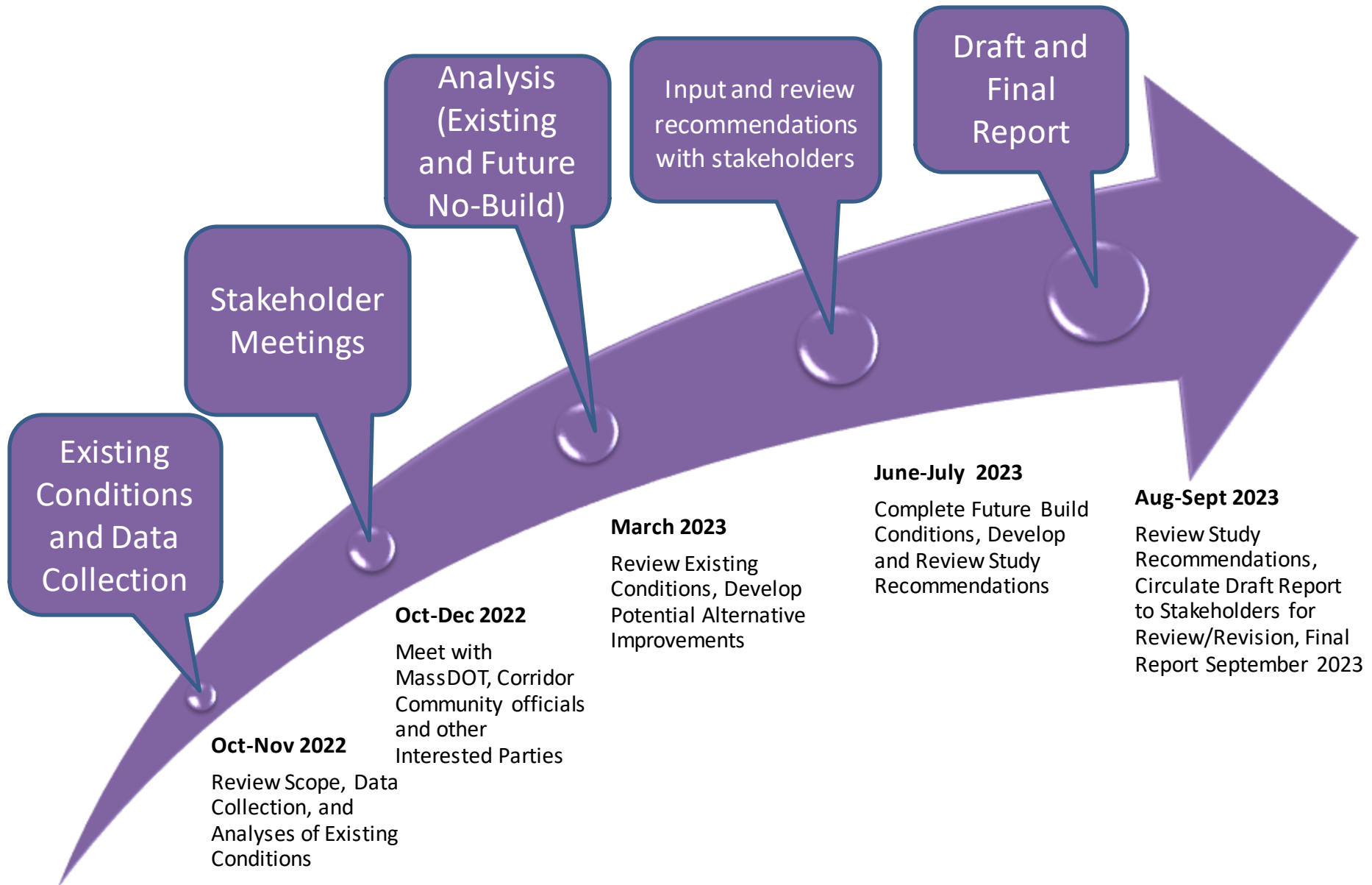
Route 18 Corridor Study Geographic Scope

The study focuses on:

- *Traffic volumes, average daily traffic (24-hour), speeds, heavy vehicle volumes, and peak hour intersection turning movement volumes and intersection congestion*
- *Bottlenecks*
- *Peak Hour levels-of-service at key intersections (delay measurement, LOS A to F)*
- *Safety - Number and types of crashes and crash rates, problematic locations*
- *The condition of the built environment including pavement, sidewalks, pavement markings, traffic control devices and signage*
- *Transit operations*
- *Bicycle and pedestrian safety and accommodations (and access to transit)*
- *Truck operations and constraints (turning radii, height and weight restrictions)*
- *Changing land use and zoning and the potential impacts of land use on traffic and transportation*
- *Environmental conditions (wetlands, flooding)*
- *The study's final report will be completed in September 2023*



Route 18 Corridor Study Area Timeline



Turning Movement Count Locations

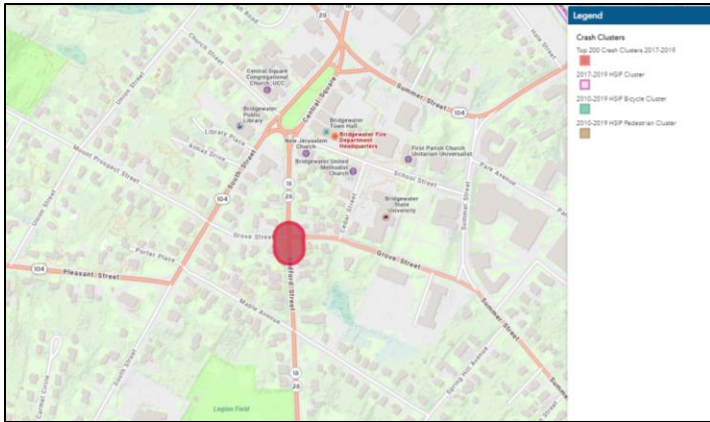
NUM	INTERSECTION	TOWN	Traffic Control
1	North Bedford Street (Route 18) at Highland Street at Harvard Street	East Bridgewater	Signal
2	North Bedford Street (Route 18) at Compass Way	East Bridgewater	Stop Sign
3	North Bedford Street (Route 18) at Union Street (North Intersection)	East Bridgewater	Stop Sign
4	North Bedford Street (Route 18) at Union Street (South Intersection)	East Bridgewater	Stop Sign
5	Bedford Street (Route 18) at Spring Street/Central Street/Maple Avenue	East Bridgewater	Signal
6	Bedford St at EB High School	East Bridgewater	
7	Bedford Street (Route 18) at Whitman Street (Route 106)	East Bridgewater	Signal
8	Bedford Street (Route 18) at West Street (Route 106) and East Street	East Bridgewater	Signal
9	Union Street at Central Street	East Bridgewater	Stop Sign
10	Broad Street (Route 18) at High Street	Bridgewater	Signal
11	Broad Street (Route 18) at Roche Brothers plaza north	Bridgewater	Stop Sign
12	Broad Street (Route 18) at Roche Brothers plaza south	Bridgewater	Stop Sign
13	Broad Street (Route 18) Spring Street	Bridgewater	Stop Sign
14	Main Street (Route 28) at Broad Street (Route 18)/Central Square/Summer Street (Route 104)	Bridgewater	Signal
15	Central Square at South Street Church Street/School Street/Bedford Street (Route 18 and 28)	Bridgewater	Yield
16	Bedford Street (Route 18 and 28) at Grove Street	Bridgewater	Stop Sign
17	Bedford Street (Route 18 and 28) at Maple Avenue	Bridgewater	Stop Sign
18	Bedford Street (Route 18 and 28) at Cottage Street	Bridgewater	Stop Sign
19	Bedford Street (Route 18 and 28) at Winter Street	Bridgewater	Signal
20	Bedford Street (Route 18 and 28) at Flagg Street	Bridgewater	Stop Sign

ATR Locations

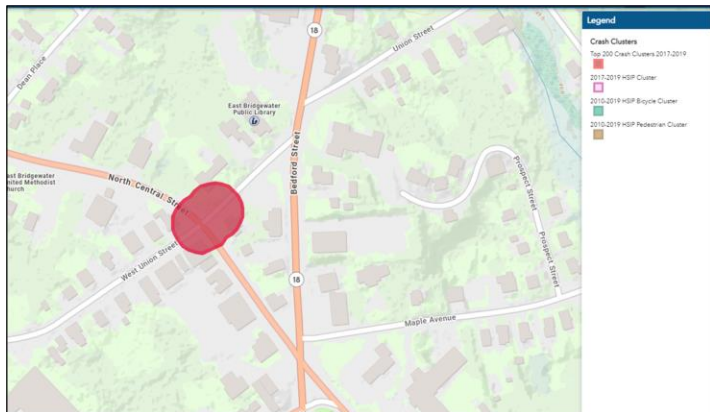
NUMBER	ATR LOCATION	TOWN
1	North Bedford Street (Route 18) at Whitman Line	East Bridgewater
2	Union Street east of North Bedford Street (Route 18)	East Bridgewater
3	Union Street west of North Bedford Street (Route 18)	East Bridgewater
4	North Bedford Street (Route 18) north of Maple Avenue	East Bridgewater
5	Bedford Street (Route 18) north of Whitman Street (Route 106)	East Bridgewater
6	Bedford Street (Route 18) north of East Street and West Street	East Bridgewater
7	Bedford Street (Route 18) at the Bridgewater line	East Bridgewater
8	Broad Street (Route 18) north On Main Street/Summer Street/Central Square	Bridgewater
9	Bedford Street (Route 18/28) south of Central Square	Bridgewater
10	Bedford Street (Route 18/28) at the Middleboro Town Line	Bridgewater

MassDOT, Top 200 Crash Location 2017 to 2019

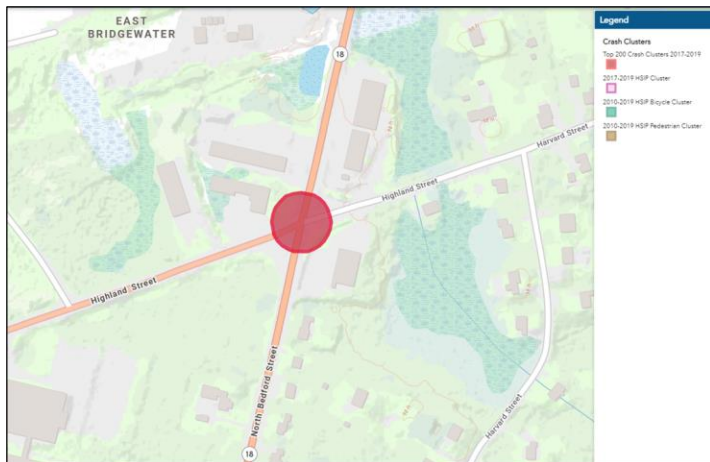
Route 18 Bedford Street at Grove Street, Bridgewater

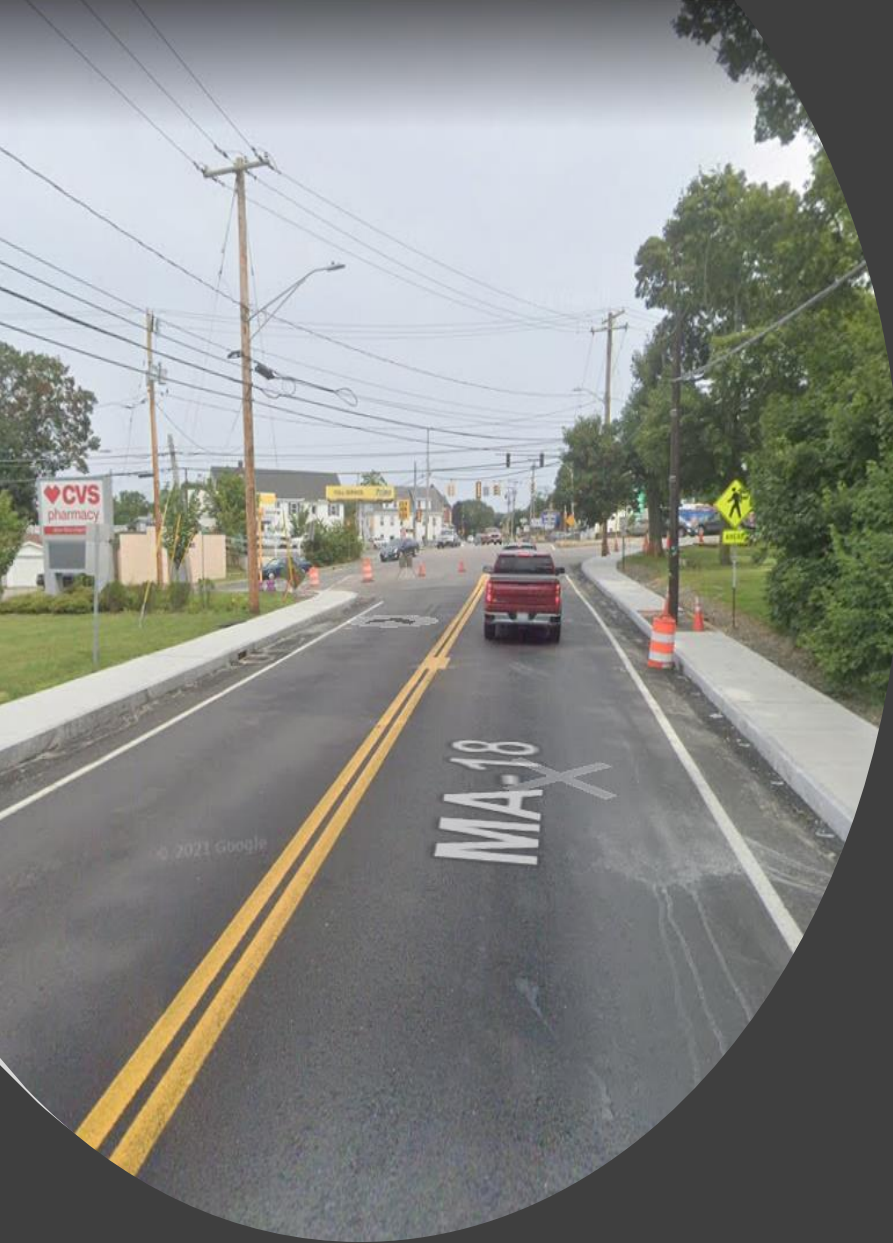


North Central Street at Union Street, East Bridgewater



North Bedford Street Route 18 at Highland Street, East Bridgewater





Previous Study

- OCPC 2009 Route 18 Corridor Study - Abington, Whitman, East Bridgewater, Bridgewater
 - Route 18 Bedford Street at Central Street/Maple Street (East Bridgewater Center) The intersection at the East Bridgewater Center is a major bottleneck along the Route 18 corridor. Improvements included widen the Route 18 northbound approach to the intersection to two lanes and Improve pedestrian safety and amenities at the intersection.

Projects

- **MassDOT 109470 East Bridgewater** Resurfacing Route 18 and Sidewalk Construction from Route 106 to Central Street. Under Construction.
- **MassDOT 611968 East Bridgewater** Intersection Improvements at Route 18 West Street (Route 106) and East Street. Approved by PRC.
- **MassDOT 611976 East Bridgewater** Intersection Improvements at Highland Street and Route 18. Approved by PRC.



Previous Study

- OCPC 2009 Route 18 Corridor Study - Abington, Whitman, East Bridgewater, Bridgewater
 - Central Square Bridgewater – Represents a major bottleneck in the Route 18 corridor. Improvements included prohibit left turns from Route 28 to Route 18 north, extend lane markings for left turns from Central Square to Route 28 north, and improve pedestrian safety in the Square, including update signs and pavement markings.
- Road Safety Audit Bedford Street (Route 18/28) at Grove Street Intersection 2022, Reverse the Grove Street westbound one-way designation to eastbound , Add flashing beacons and warning signs, improve pedestrian amenities (bump-outs).

Projects

- **MassDOT 603385** **Bridgewater/Middleboro** Bridge Replacement over the Taunton River Route 18/28. Completed.
- **MassDOT 603568 Bridgewater** Intersection Improvements at Route 18/28 at Winter Street, Signalization and reconstruction. Completed.
- **MassDOT 603660 BRIDGEWATER** Intersection Improvements at Broad Street Rte 18 at High Street Signalization. Completed.

Route 18 Corridor Study

Next Steps

- ❖ Existing Conditions Analysis
- ❖ Stakeholder Input
- ❖ Discern potential traffic from future development, and potential needs for changing development?
- ❖ Develop future scenarios and analysis
- ❖ Development of Improvements
- ❖ Improvements finalized
- ❖ OCPC Completes draft report (review and comments from Stakeholders)
- ❖ Final report

THANK YOU!

Questions / Comments?

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