



OLD COLONY
PLANNING COUNCIL

Route 18 Corridor Study Update East Bridgewater Bridgewater

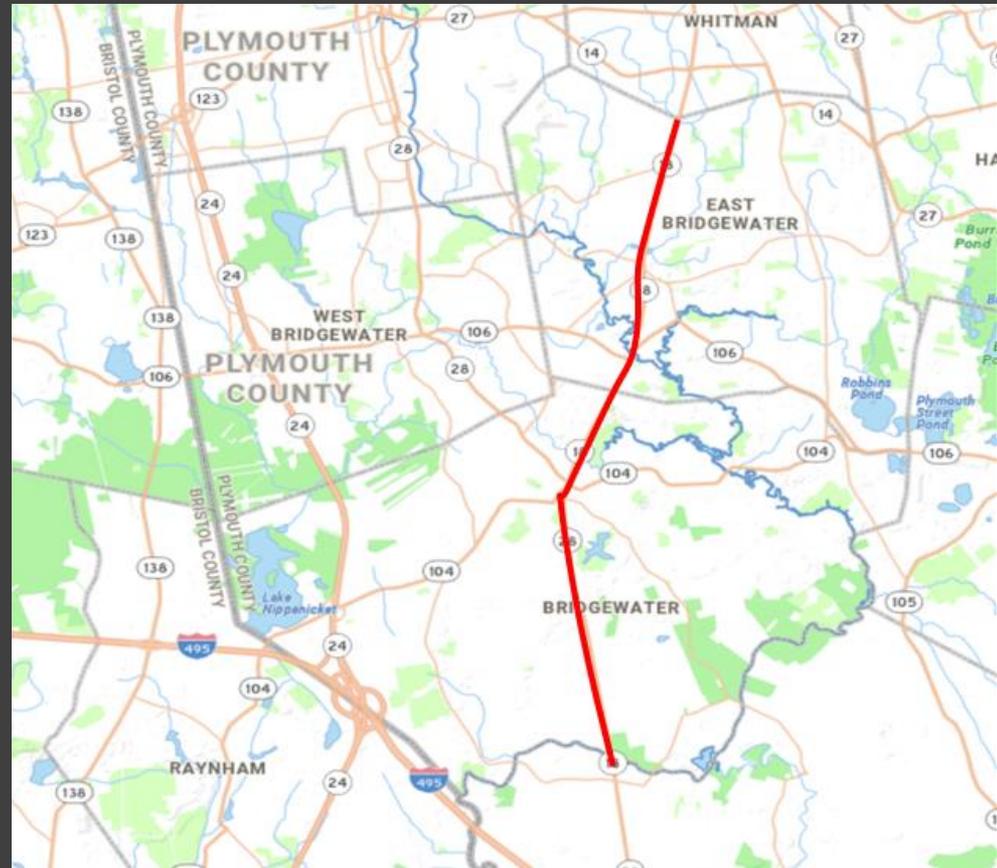
MPO Item 7 – Feb 21, 2023

Route 18 Corridor Study Scope

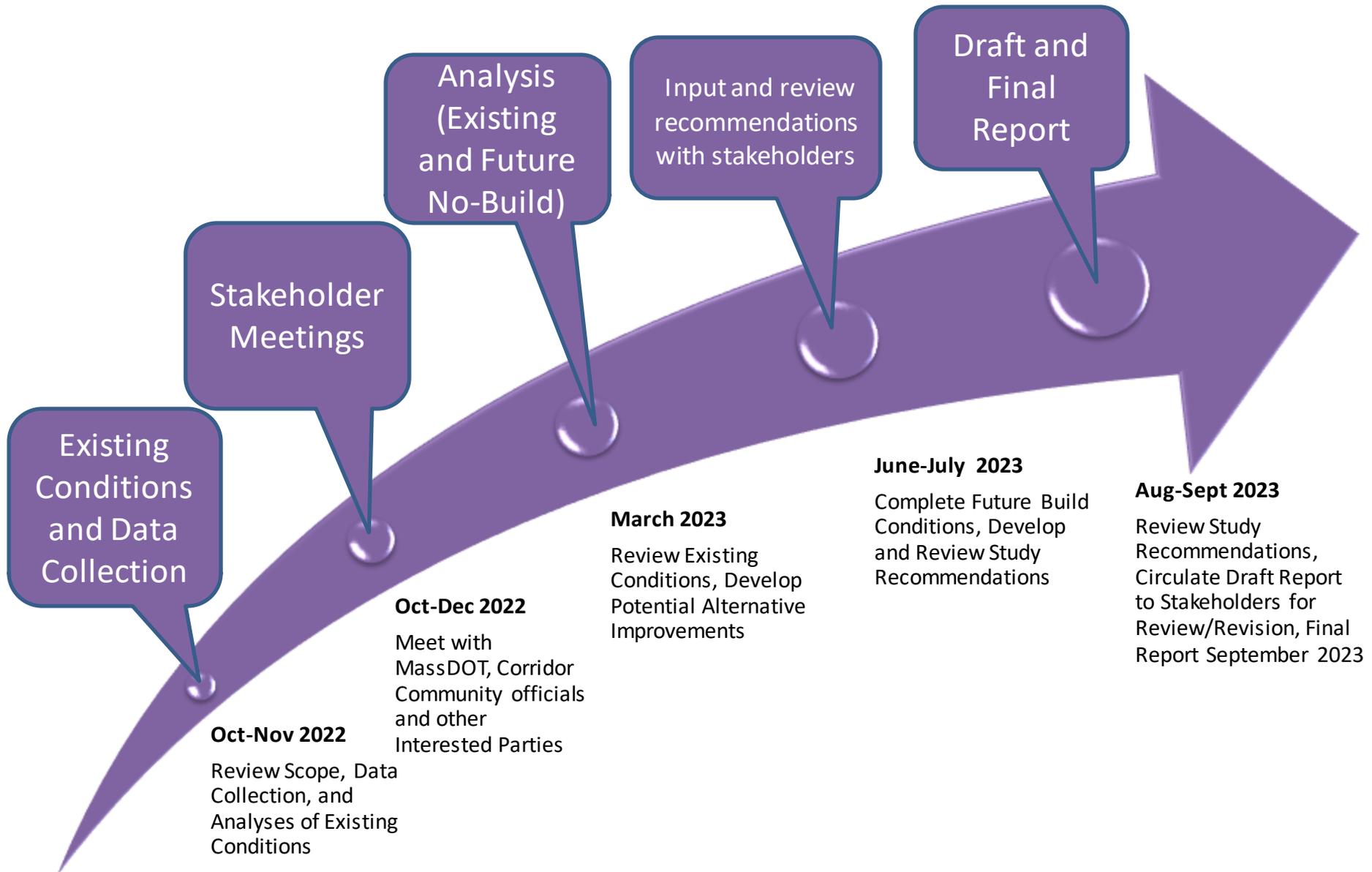
The study focuses on:

- **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**

Study Purpose: Address traffic congestion and improve safety and mobility for all road users (bicyclists and walkers), coordinate planned projects and planned development and land use changes. Develop short-term and long-term improvements.



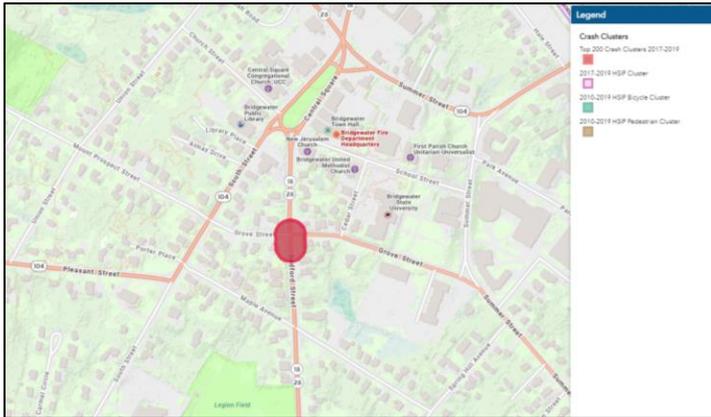
Route 18 Corridor Study Area Timeline



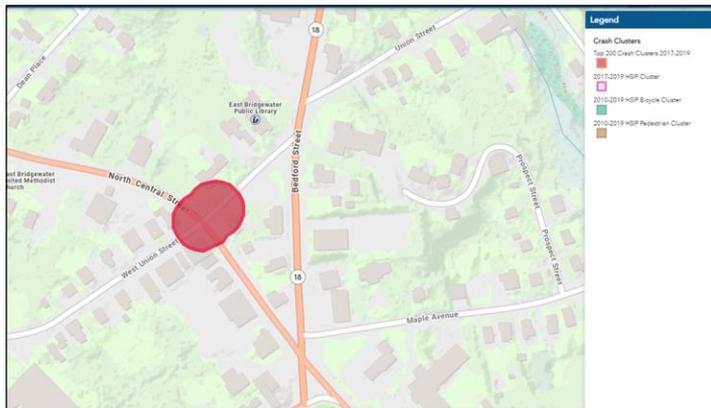
SAFETY

MassDOT,
Top 200 Crash Location 2017 to 2019

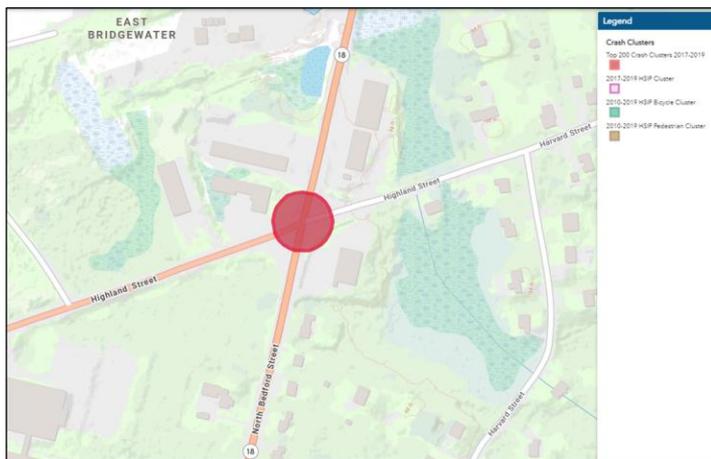
Route 18 Bedford Street at Grove Street, Bridgewater



North Central Street at Union Street, East Bridgewater



North Bedford Street Route 18 at Highland Street,
East Bridgewater



SAFETY

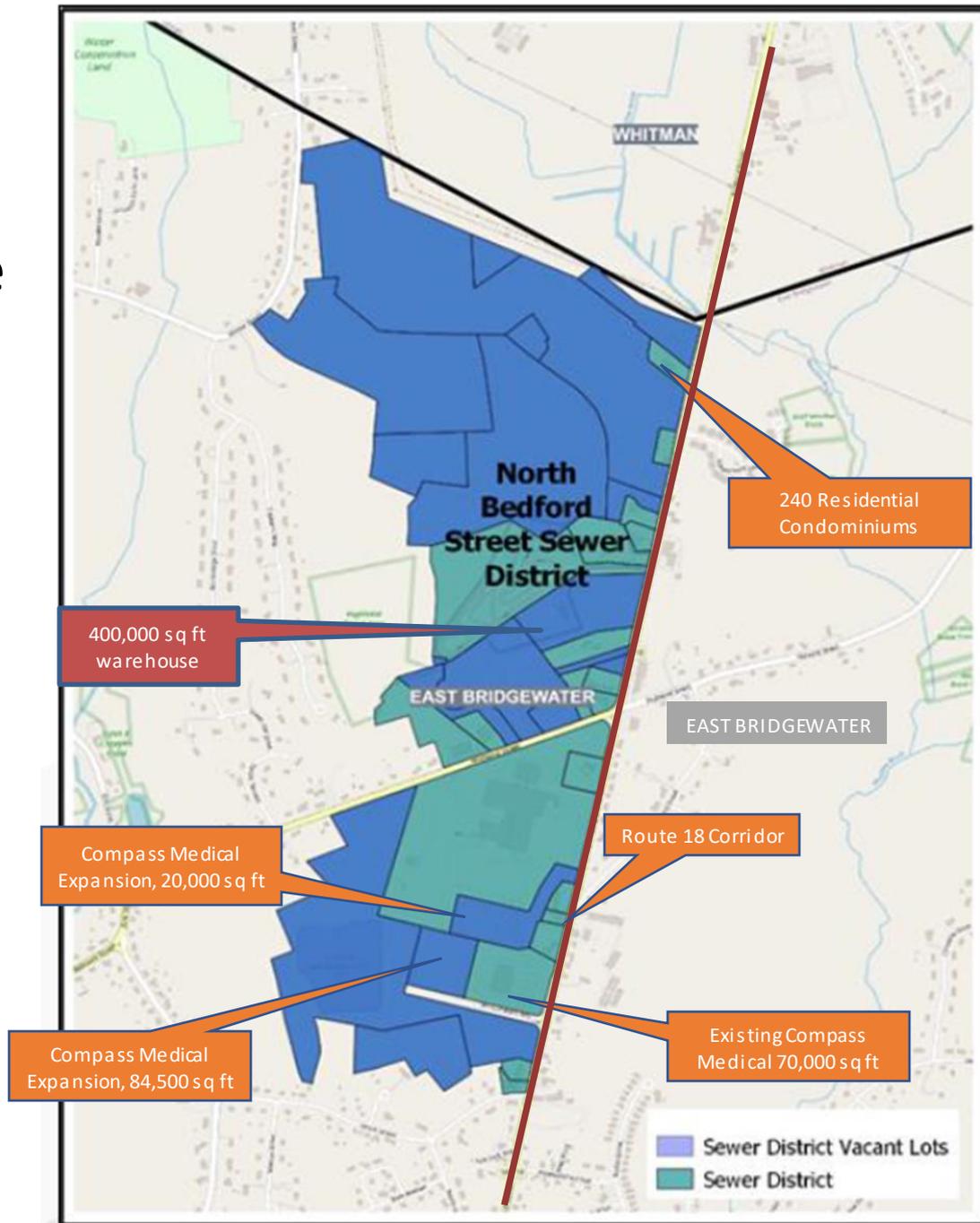
	INTERSECTION	Fatal	Personal Injury Crashes	Prop Damage Only	Total	Crash Rate
1	North Bedford Street (Route 18) at Highland Street at Harvard Street	0	13	23	36	1.54
2	North Bedford Street (Route 18) at Compass Way	0	1	2	3	0.17
3	North Bedford Street (Route 18) at Union Street (North Intersection)	0	3	14	17	0.89
4	North Bedford Street (Route 18) at Union Street (South Intersection)	0	0	3	3	0.16
5	Bedford Street (Route 18) at Spring Street/Central Street/Maple Avenue	0	8	58	66	2.41
6	Bedford St at EB High School	0	1	4	5	0.37
7	Bedford Street (Route 18) at Whitman Street (Route 106)	0	1	17	18	0.76
8	Bedford Street (Route 18) at West Street (Route 106) and East Street	0	9	33	42	1.54
9	Union Street at Central Street	0	4	32	36	1.85
10	Broad Street (Route 18) at High Street	0	3	6	9	0.45
11	Broad Street (Route 18) at Roche Brothers plaza north	0	1	3	4	0.23
12	Broad Street (Route 18) at Roche Brothers plaza south	0	0	2	2	0.12
13	Broad Street (Route 18) Spring Street	0	2	9	11	0.59
14	Main Street (Route 28) at Broad Street (Route 18)/Central Square/Summer Street (Route 104)	0	1	25	26	0.79
15	Central Square at South Street Church Street/School Street/Bedford Street (Route 18 and 28)	0	2	7	9	0.71
16	Bedford Street (Route 18 and 28) at Grove Street	0	7	6	13	1.04
17	Bedford Street (Route 18 and 28) at Maple Avenue	0	2	0	2	0.13
18	Bedford Street (Route 18 and 28) at Cottage Street	0	1	1	2	0.12
19	Bedford Street (Route 18 and 28) at Winter Street	0	1	3	4	0.19
20	Bedford Street (Route 18 and 28) at Flagg Street	0	5	4	9	0.50

EXISTING INTERSECTION LEVELS-OF-SERVICE

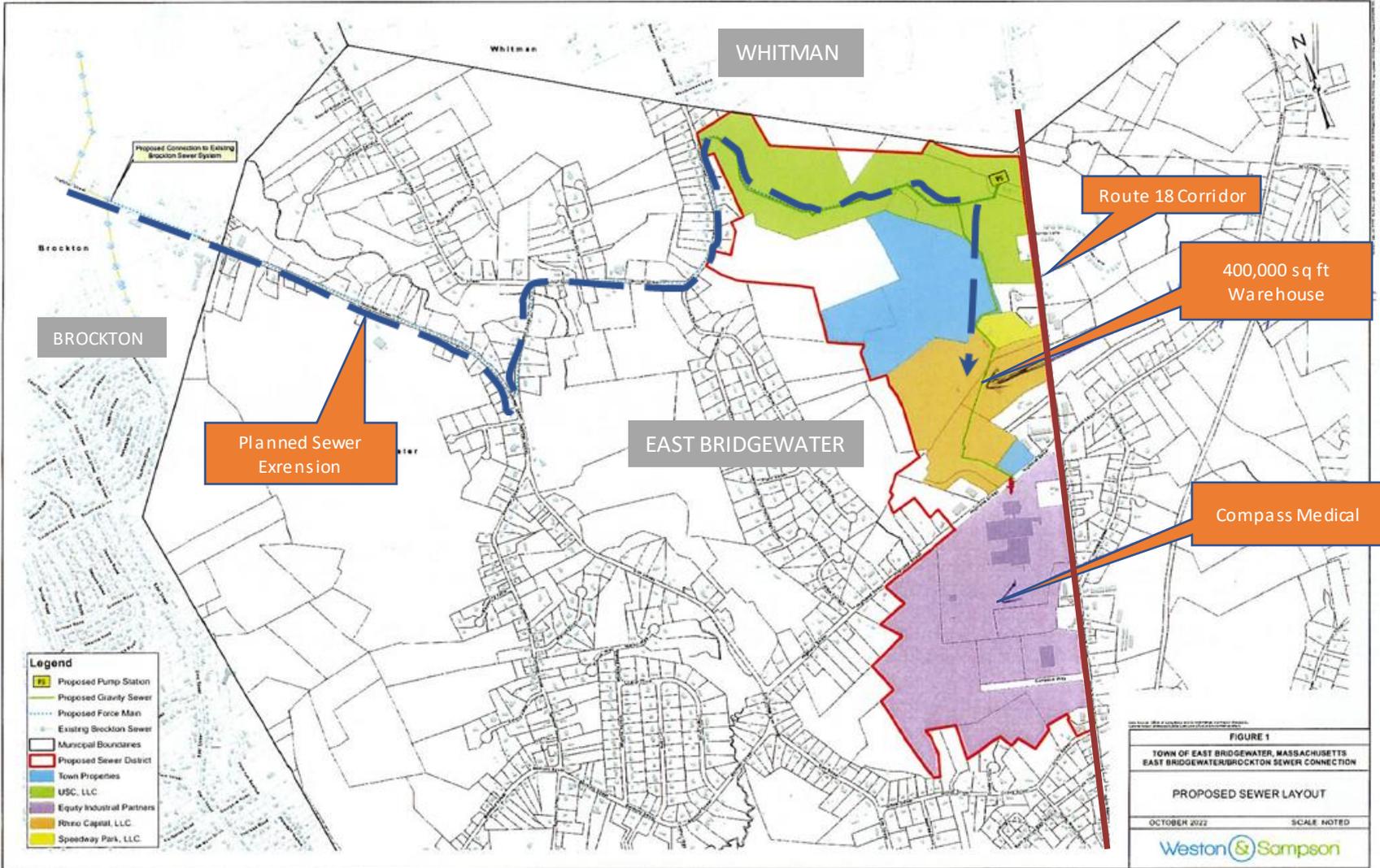
INTERSECTION	Traffic Control	AM Peak	PM Peak
1 North Bedford Street (Route 18) at Highland Street at Harvard Street	Signal	B	C
2 North Bedford Street (Route 18) at Compass Way	Stop	D	E
3 North Bedford Street (Route 18) at Union Street (North Intersection)	Stop	F	F
4 North Bedford Street (Route 18) at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

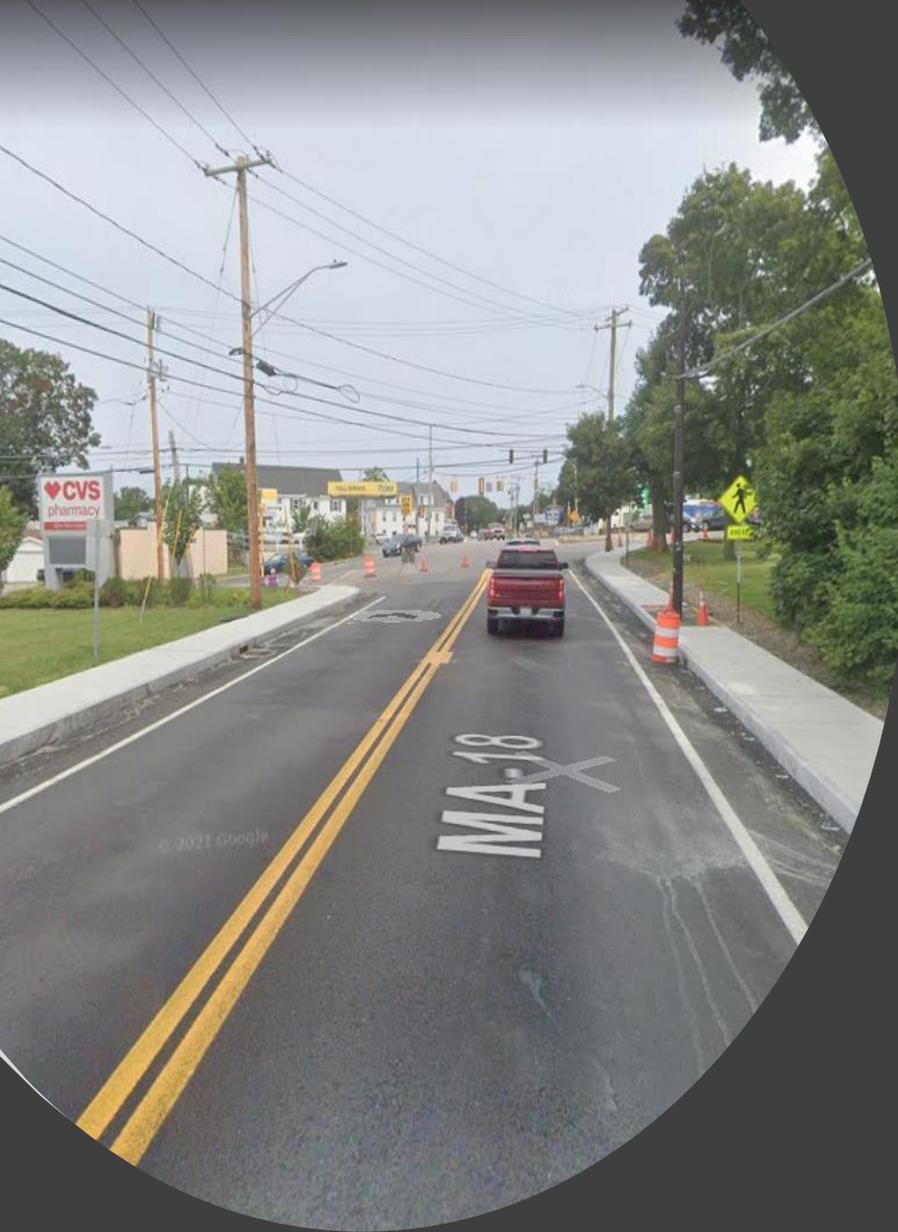
Potential for Future Development

North Bedford Sewer District



Sewer Extension





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.



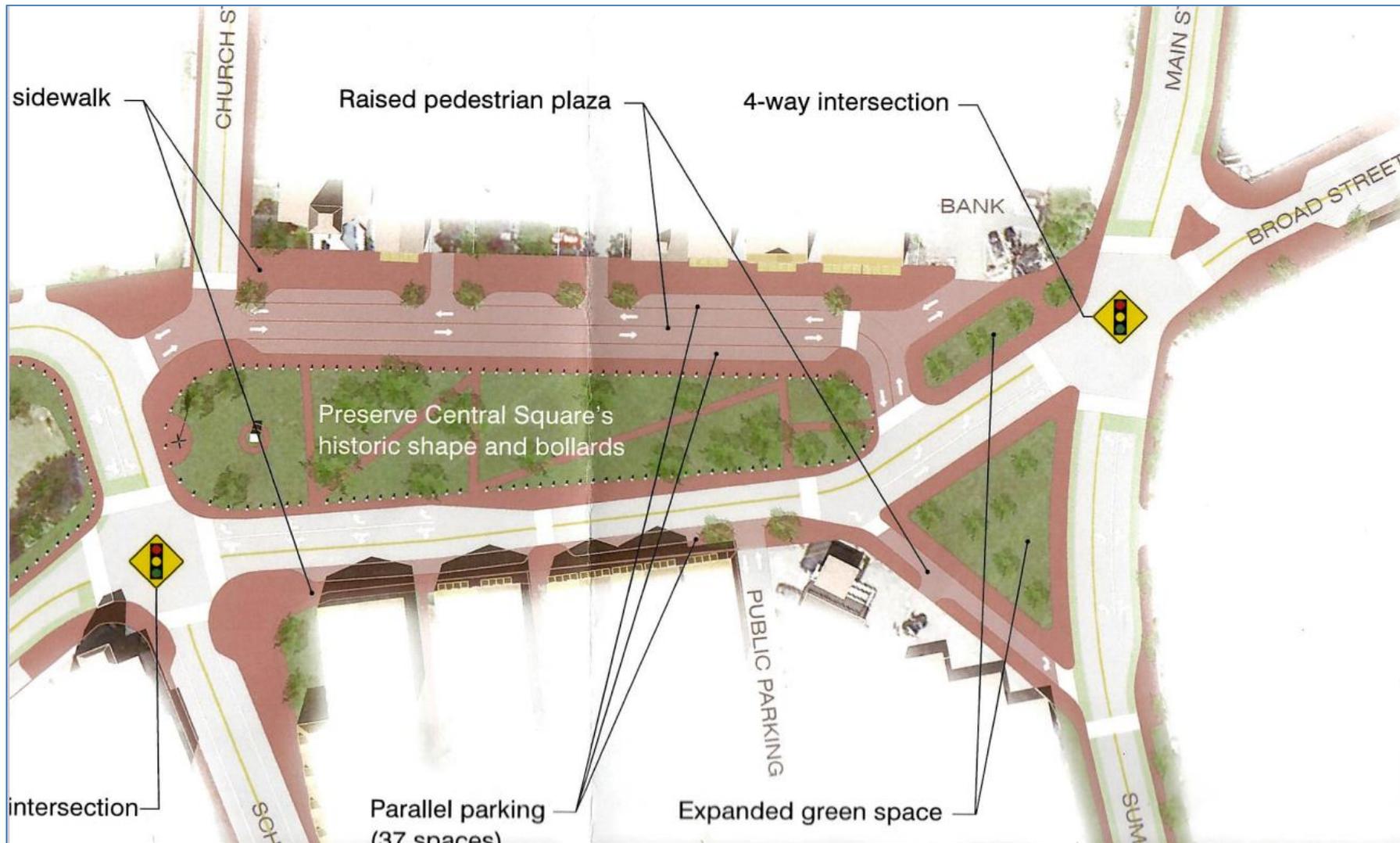
Previous Study

- 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.

Bridgewater Central Square Study 2020 – Purpose: evaluate traffic conditions (Existing and alternatives), analyze existing and proposed concepts to improve the overall transportation network and flow, prioritizing a more multimodal and pedestrian-focused design.



Route 18 Corridor Study

Next Steps

- ❖ Discern potential traffic from future development, and potential needs for changing development? (TransCAD Model)
- ❖ Develop future scenarios and analysis with alternatives in consultation with stakeholders
- ❖ Development and testing Potential Improvements
- ❖ Improvements finalized
- ❖ OCPC Completes draft report (review and comments from Stakeholders)
- ❖ Final report end of summer 2023

THANK YOU!

Questions / Comments?

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