



OLD COLONY
PLANNING COUNCIL

Route 18 Corridor Study Update East Bridgewater Bridgewater

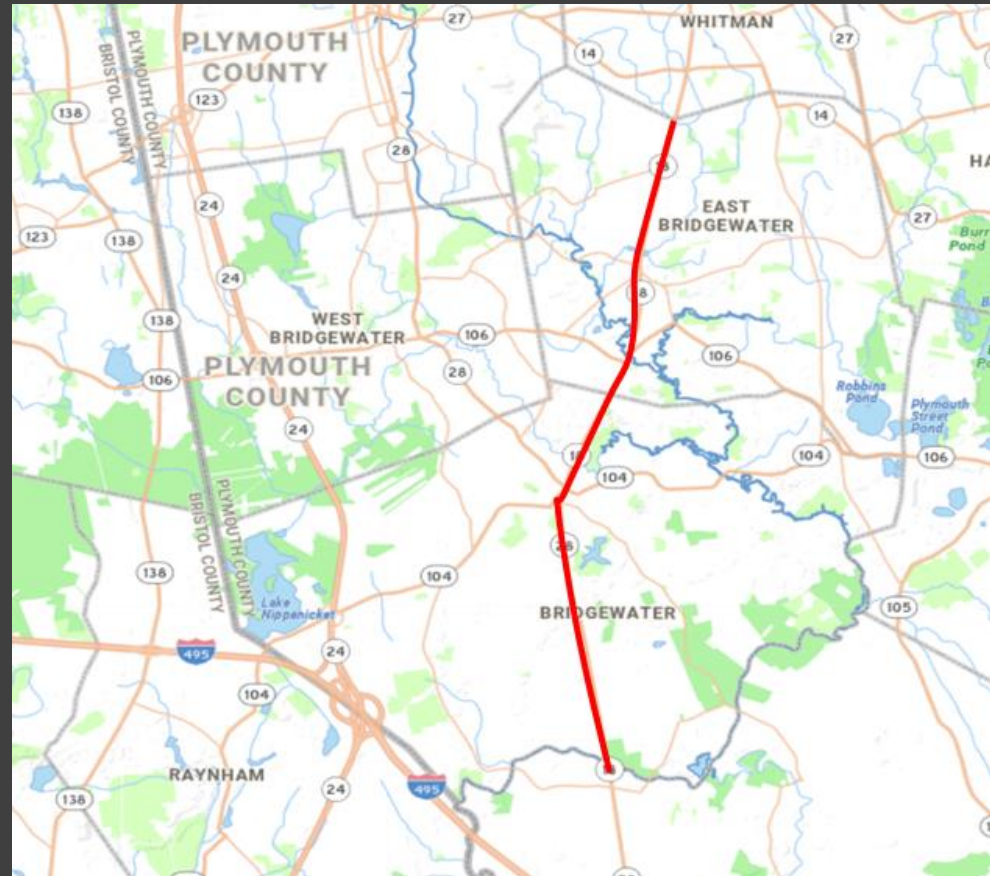
MPO Item 8 – April 18, 2023

Route 18 Corridor Study Scope

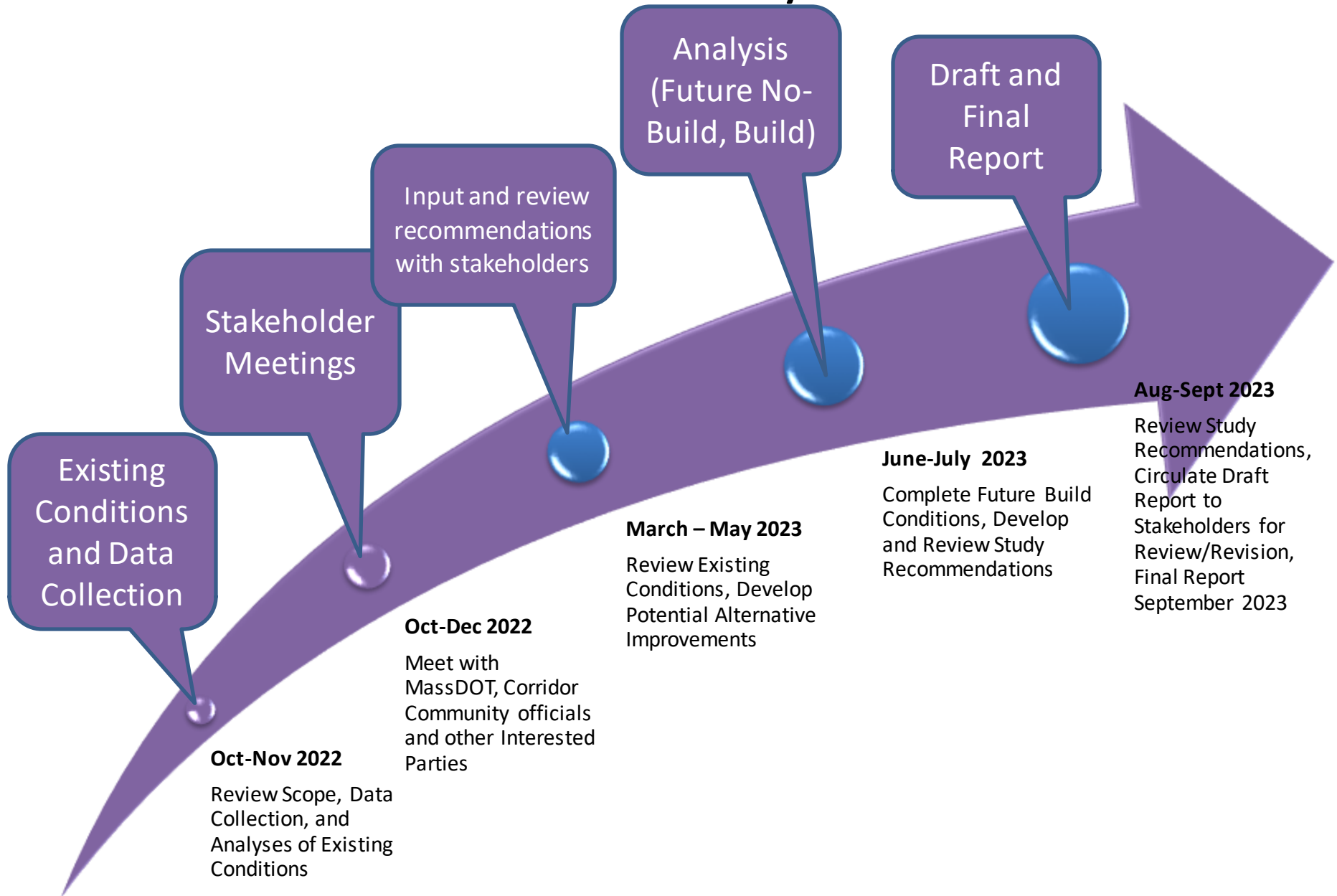
The study focuses on:

- **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



Route 18 Corridor Survey

(Closes out the
end of June 2023)

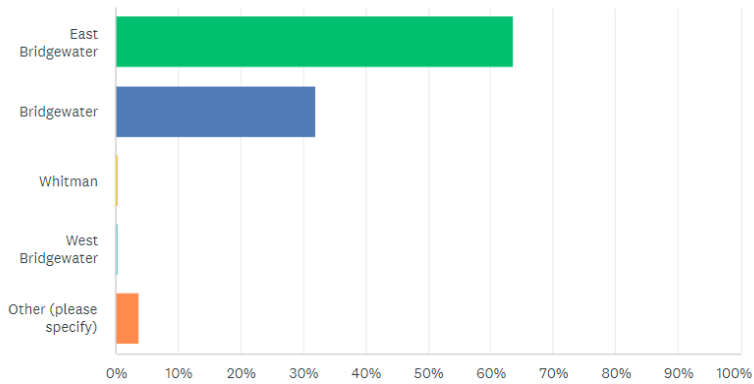
1. What city/town are you currently living in?
2. Is your trip destination located along the Route 18 Corridor or are you passing through?
3. Why do you travel along Route 18 (select all that apply)?
4. What mode do you use to travel along Route 18 (select all that apply)?
5. What time periods do you think the most congested time occur along Route 18 Corridor?
6. Do you feel Route 18 is a congested corridor?
7. Do you feel Route 18 is a dangerous corridor?
8. If available, would you consider the other modes to travel along Route 18?
9. Do you find yourself seeking alternate routes to avoid Route 18 congestion on a regular basis?
10. What would you like to see for the future of Route 18 Corridor?
11. What are your main concerns for Route 18 Corridor?
12. Which infrastructure investments do you think should be considered to improve access and mobility along Route 18?
13. Would you like to participate future meetings for Route 18 Corridor Planning Study?

- ENGLISH
- FRENCH
- HAITIAN CREOLE
- PORTUGUESE
- SPANISH

- TOWN WEBSITES
- OCPC WEBSITE NEWSLETTER
- SOCIAL MEDIA

Which city/town are you currently living in?

Answered: 327 Skipped: 0

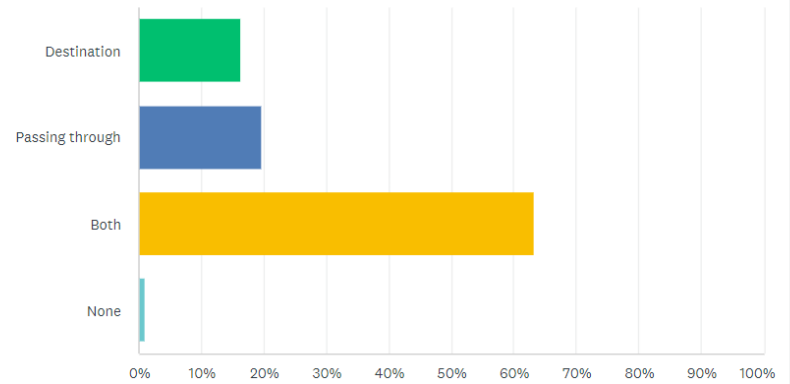


Route 18 Corridor (Bridgewater and East Bridgewater) Survey



Is your trip destination located along the Route 18 Corridor or are you ...

Answered: 326 Skipped: 1

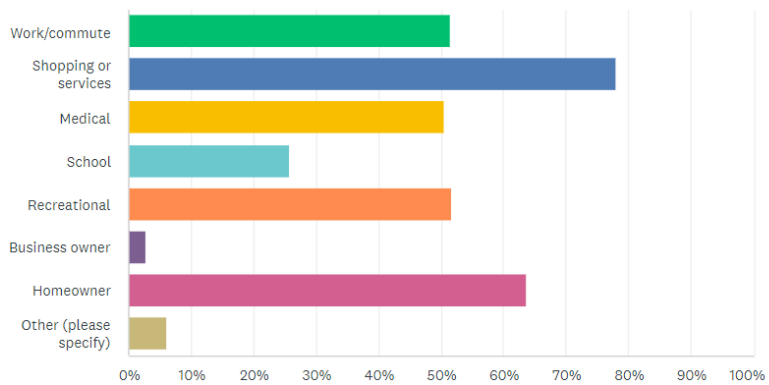


Route 18 Corridor (Bridgewater and East Bridgewater) Survey



Why do you travel along Route 18 (select all that apply)?

Answered: 327 Skipped: 0

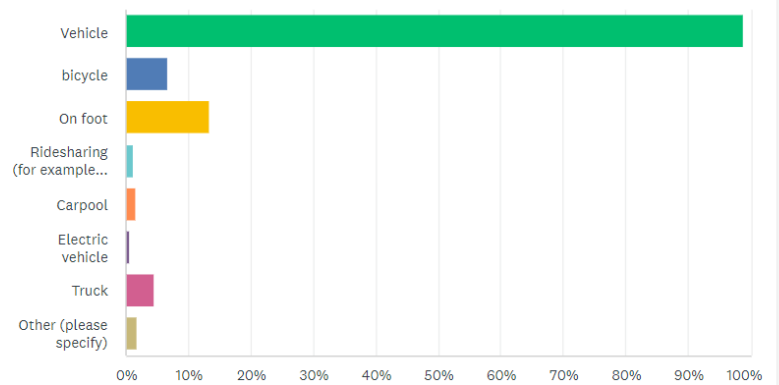


Route 18 Corridor (Bridgewater and East Bridgewater) Survey



What mode do you use to travel along Route 18 (select all that apply)?

Answered: 327 Skipped: 0

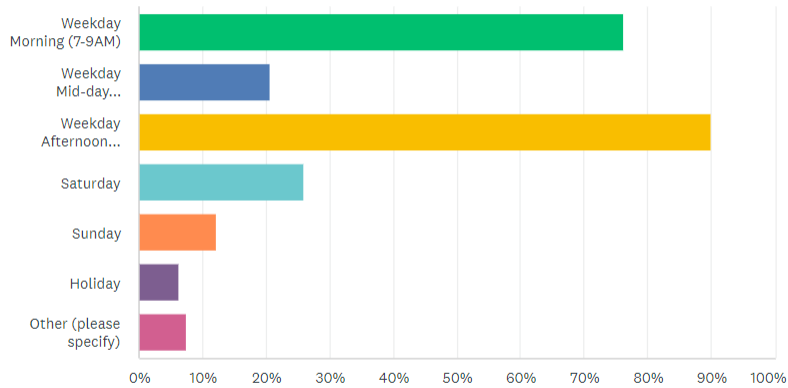


Route 18 Corridor (Bridgewater and East Bridgewater) Survey



What time periods do you think the most congested time occur along ...

Answered: 189 Skipped: 138

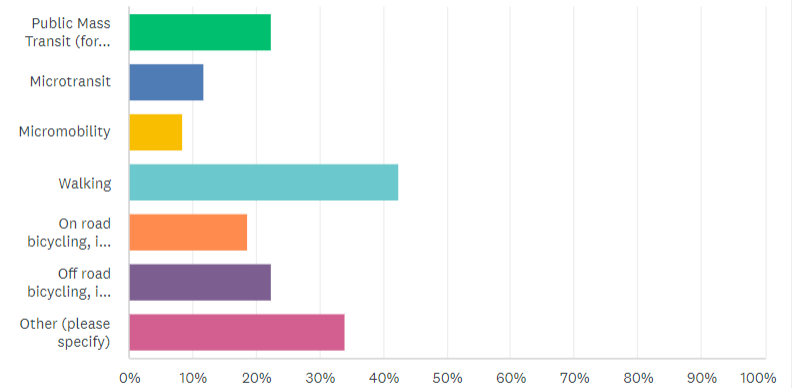


Route 18 Corridor (Bridgewater and East Bridgewater) Survey



If available, would you consider the following modes to travel along R...

Answered: 236 Skipped: 91

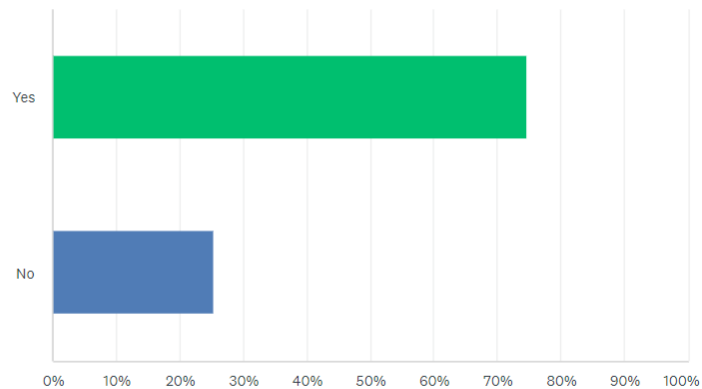


Route 18 Corridor (Bridgewater and East Bridgewater) Survey



Do you find yourself seeking alternate routes to avoid Route 18 conges...

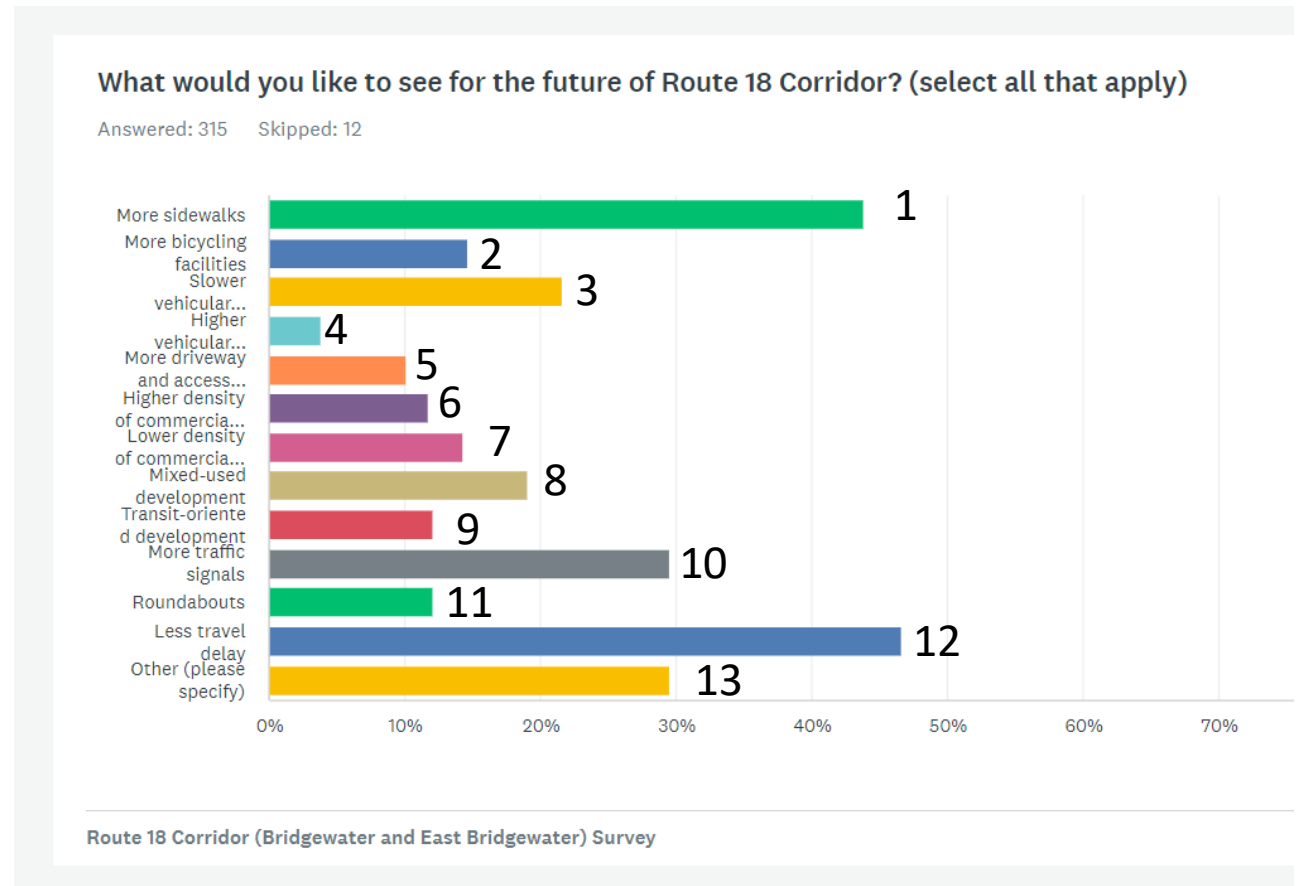
Answered: 327 Skipped: 0



Route 18 Corridor (Bridgewater and East Bridgewater) Survey



1. More Sidewalks
2. More Bicycling Facilities
3. Slower vehicular traveling speed
4. Higher vehicular traveling Speed
5. More driveway and access management
6. Higher density of commercial development
7. Lower density of commercial development
8. Mixed-used development
9. Transit-oriented development
10. More traffic signals
11. Roundabouts
12. Less travel delay
13. Other (please specify)



What are your main concerns for Route 18 Corridor?



Answered: 278 Skipped: 49

Drivers going through red lights well after it has turned red.

East Bridgewater center light is dangerous, union street at central 4 way stop constantly has accidents and is congested.

Traffic and kids safety with lack of sidewalks in East Bridgewater

It's so crowded and congested

Center of EB by the schools and to Spring St. is always congested. Many intersections like the one at Highland have no dedicated left lanes or signals. I see people all the time taking a left from the right lanes or a right from the left lanes. And I have heard many, many accidents there too. When accidents happen by Highland, people cut through on Old Harvard to Harvard. There are lots of kids and pedestrians on that road and there is a speed limit but people coming from 18 just fly down that street. I live on Harvard and I am gravely concerned for my neighborhood.

It's dangerous trying to leave businesses to access rt. 18 or Spring St.

Too many traffic lights and there should be 2 lanes going north and south

Route 18 Corridor (Bridgewater and East Bridgewater) Survey



Which infrastructure investments do you think should be considered t...



Answered: 248 Skipped: 79

Left turn only lane traveling North at Rt 18 and Central St.

I'm not sure. I think there should be a turn signal for east street and west street (18/106) intersection.

Multiple lanes

Add more lights and lanes

Dedicated left lanes, lights, 2 lanes if possible, maybe preventing cut thru traffic on normally quiet neighborhood streets.

Sidewalks on North Bedford St., better stop lights

Widen the lanes.

left arrow coming from Bridgewater in EB center lights at Flagg/Rte. 18 or at least a safety feature for those crossing to Prisco's

Better sidewalks

Route 18 Corridor (Bridgewater and East Bridgewater) Survey



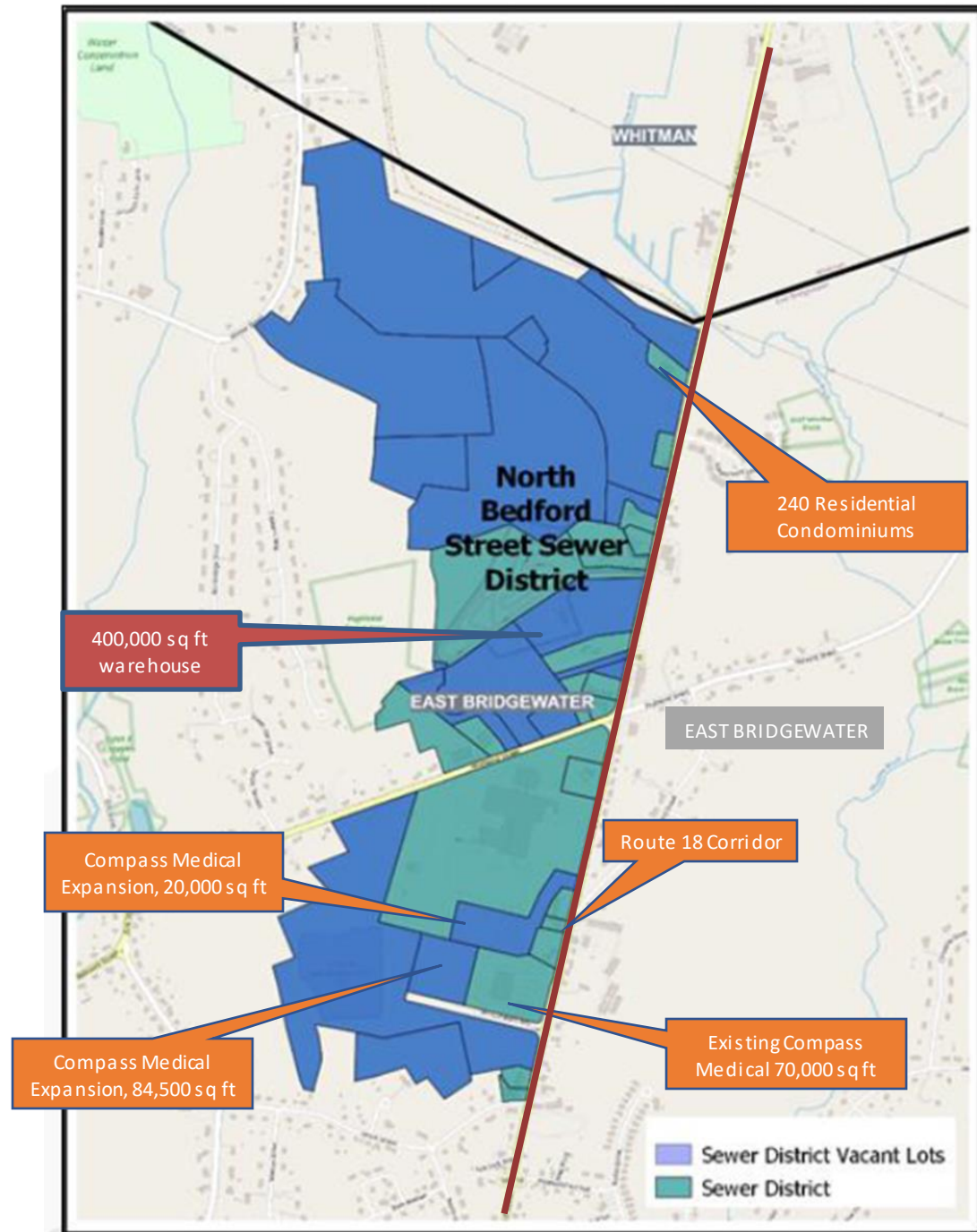
EXISTING INTERSECTION LEVELS-OF-SERVICE

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

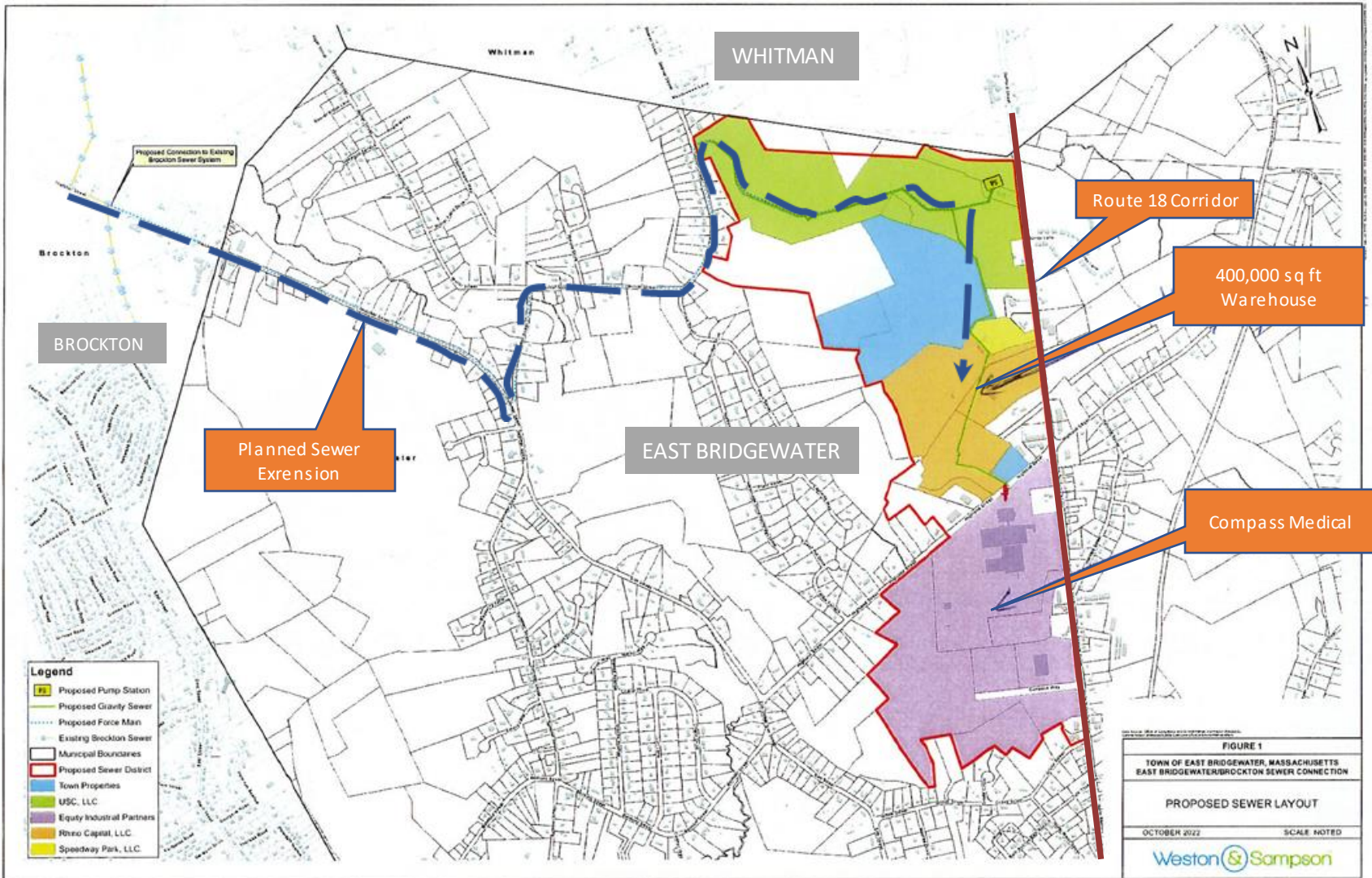
NO – BUILD

Potential for Future Development

North Bedford Sewer District



NO-BUILD Sewer Extension



BUILD Scenario East Bridgewater

Route 18 at Highland Street Future analysis

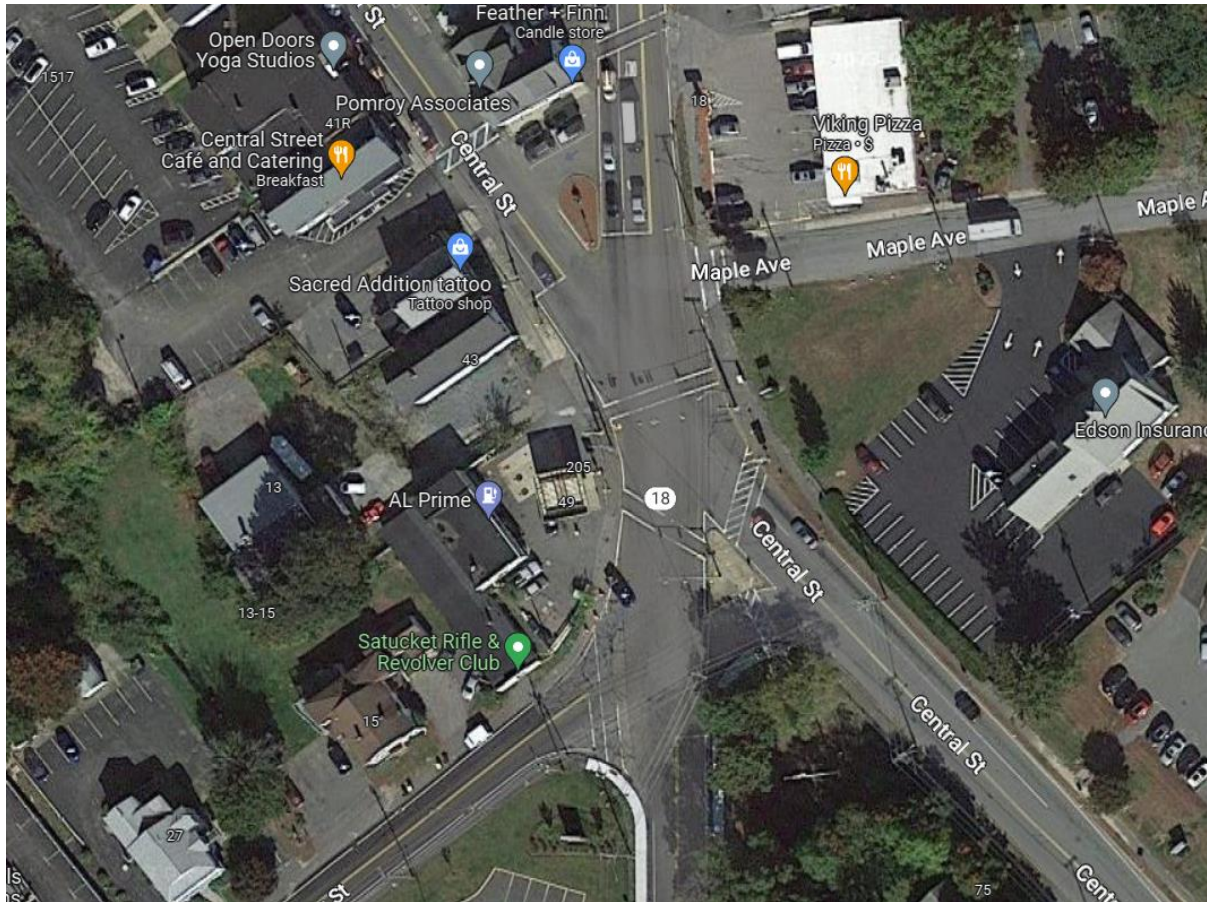
1. Skewed intersection needs realignment if possible (ROW?)
2. Long Peak Hour Queues (additional turning lanes)
3. Additional traffic impact from sewer extension
4. Updated signal timing and phasing over existing fixed phasing/timing



BUILD Scenario East Bridgewater

Bridgewater Center

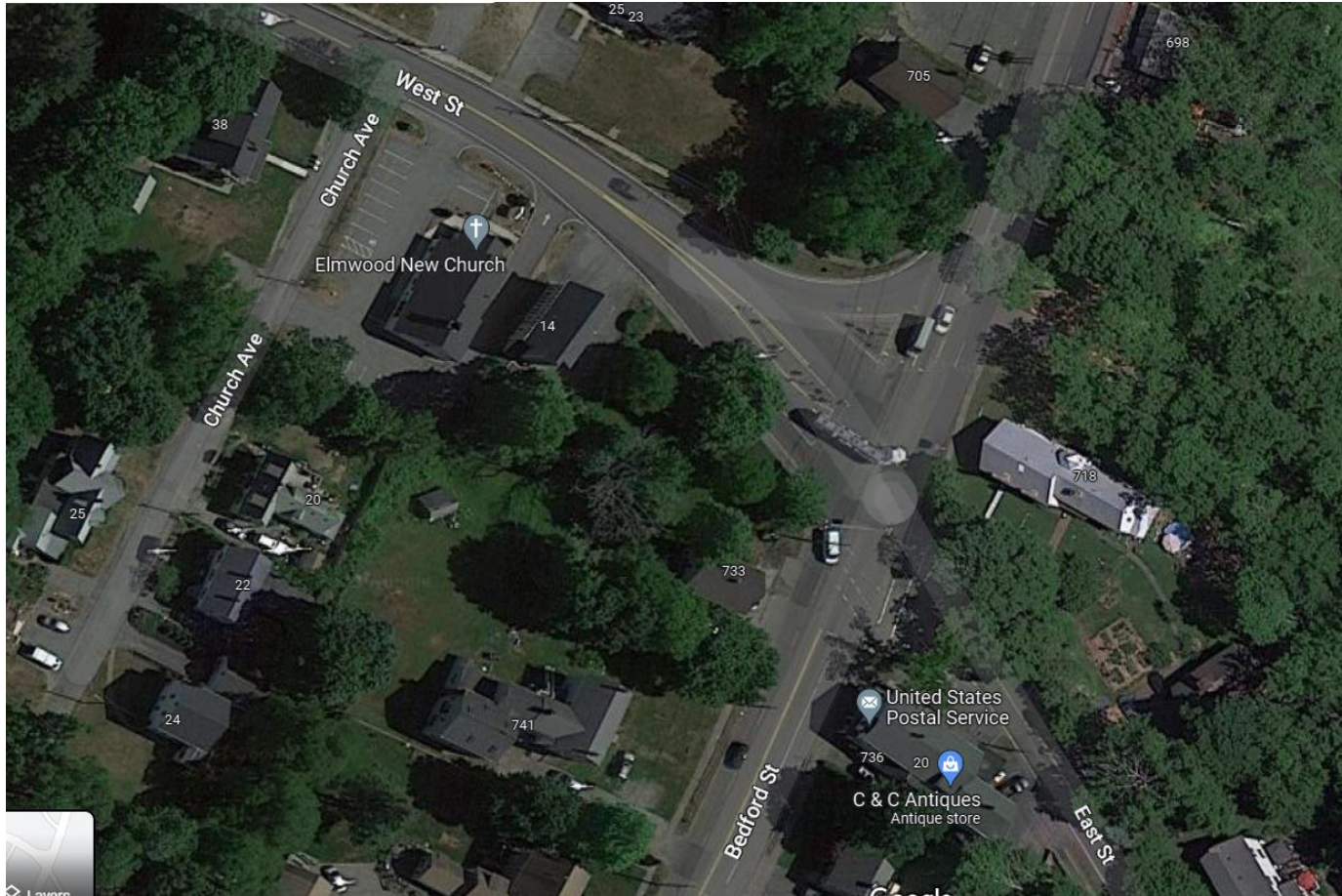
1. Long Delays LOS “F” (non-conventional 5-way turning movements)
2. Long Peak Hour Queues (Central Street)
3. Pedestrian and bicycle accommodation poor
4. Updated signal timing and phasing and lane use



BUILD Scenario East Bridgewater

Route 18 at East Street Route 106/West Street

1. High number of crashes due to alignment and weaving
2. Long term fix realignment
3. Updated signal timing and phasing and lane use



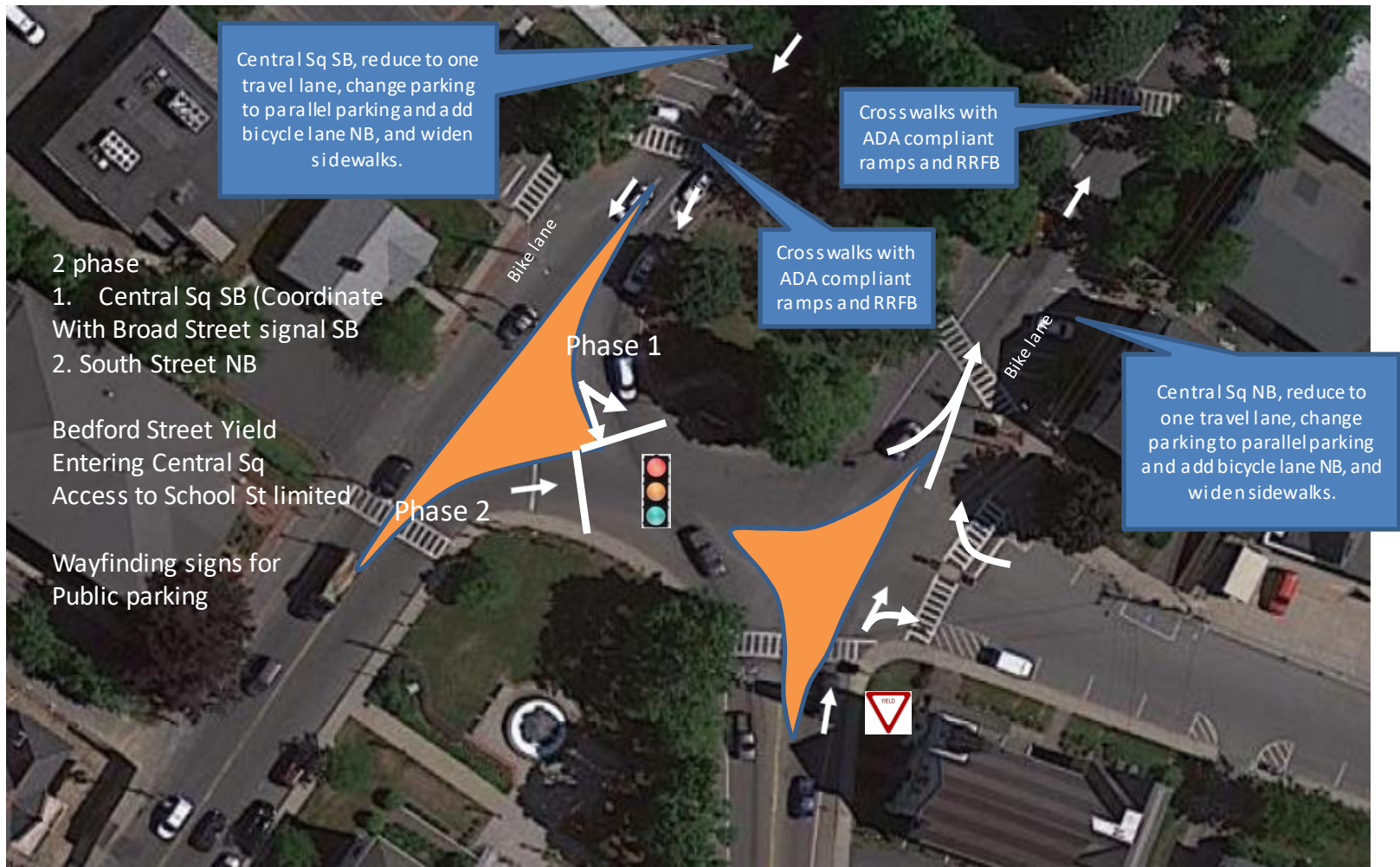
BUILD Scenario Bridgewater



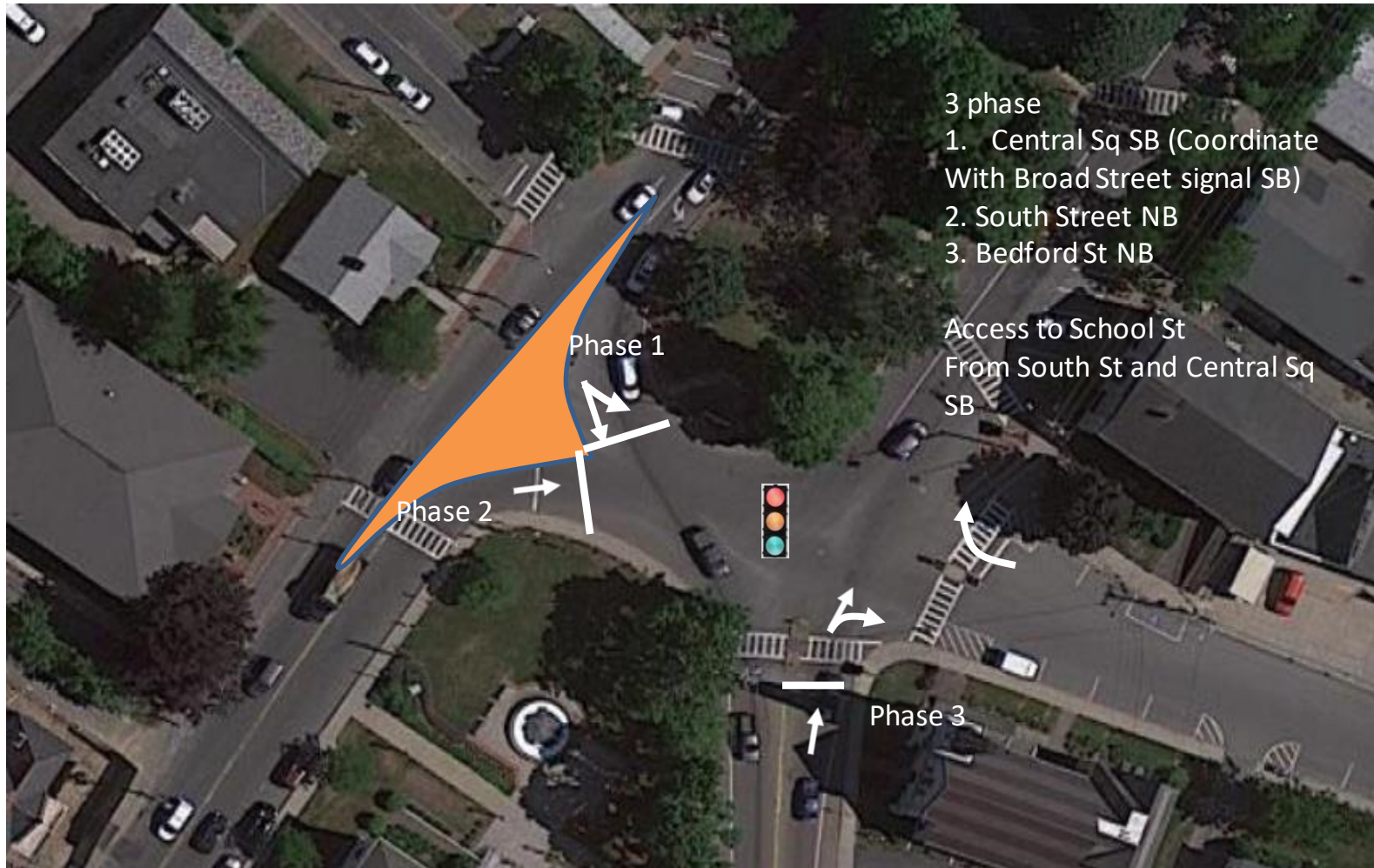
BUILD Scenario Bridgewater



BUILD Scenario Bridgewater



BUILD Scenario Bridgewater



Route 18 Corridor Study

Next Steps

- ❖ Discern potential traffic from future development, and potential needs for changing development (TransCAD Model)
- ❖ Analysis of future scenarios with alternatives based on 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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