

Resurfacing and Road Diet Pilot Project

#### **Public Meeting Notes and Procedures**



#### **Notification of Recording**

This virtual public meeting will be recorded. The Massachusetts Department of Transportation may choose to retain and distribute the video, still images, audio, and/or chat transcript. By continuing attendance with this virtual public meeting, you are consenting to participate in a recorded event.

If you are not comfortable being recorded, please turn off your camera, keep your microphone muted, and refrain from chatting in the transcript box.

#### **Other Important Notes**

Please note that you are automatically muted upon entering the meeting. The meeting will be open to questions and answers at the end of the presentation. Submit your questions and comments using the chat panel or "raise your hand" to be unmuted for verbal questions.



#### **Agenda**





1. Refresher: Project Overview & Schedule



2. Pilot Evaluation

A. Community Feedback and Adjustments

B. Data Analysis



3. South Main Street Design



4. Next Steps

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#### **Project Purpose and Need**



Average Crash Rate 3.23



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Main Street Crash Rate **8.17** 





#### **Project Goals**





Maintain a state of good repair along Route 28



Improve safety for people using Main Street



Calm vehicle traffic



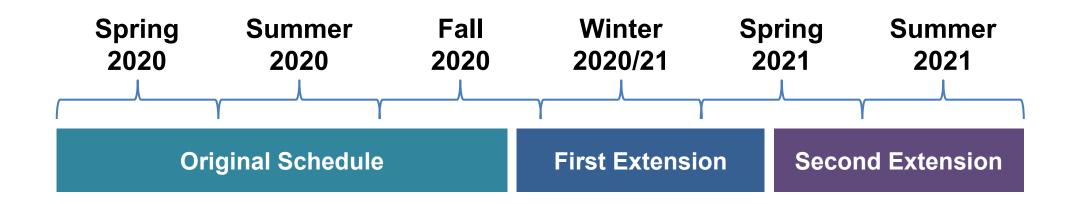
Improve accessibility for pedestrians



Meet MassDOT Complete Streets and Healthy Transportation policies

#### Pilot Schedule Adjustments





- In September 2020, MassDOT extended the pilot through March 2021 due the impact of COVID-19 on traffic patterns and volumes
- In January 2021, MassDOT extended the pilot again after receiving requests from Town staff and members of the public

#### Data Quality vs. Pavement Service



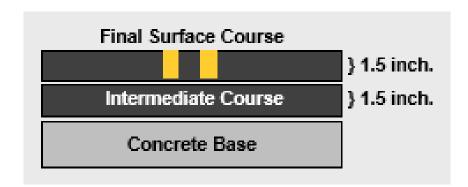
- MassDOT conducted the pilot to test the new pavement markings in "typical conditions"
- We want to have as much data as possible before making any final decisions
- The project team analyzed extending the pilot to gather more data



#### **Data Quality vs. Pavement Service**



- Resurfacing the roadway requires two layers of asphalt:
  - One Intermediate Course (1 ½ inches)
  - One Surface Course (1 ½ inches)
- Delaying the Surface Course increases the risk of reflective cracking associated with the underlying concrete base
  - Reflective cracking would reduce the service life of the completed pavement





#### **Updated 2021 Schedule**

**Gathering Public Input** 



	MAY	JUNE	JULY	AUG	SEPT	ОСТ	NOV	
<b>North</b> Main St.	Prepare a Adjust Stru		Pave and Paint with Abutter Coordination					
<b>South</b> Main St.	Collect T	raffic Data	Conclude Evaluation	Prepare and Adjust Structures	Pave a with Abutte			
Public Outreach	Public Meeting	Updat Town St (PTTTI	taff	Tonight: Announce South Main Pavement Markings	Construction Updates and Project Completion			
	Continue Meeting and Coordinating with Town Staff							

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#### **Pilot Outreach Before and During Pilot**



- Door-to-door flyering and outreach at businesses along project area
- Business Breakfast and Info Session
- MassDOT and Town of Reading project webpages
  - Project information
  - Road Diet guides
  - Project team contact info
- PIMA online comment map
- Informational video presentation
  - 1,000+ views on YouTube
  - Rebroadcasted on RCTV

- Two Reverse 9-1-1 Calls
  - "Code Red" calls to 20,000 residents
- Project information included in Town Water Bill
- September virtual public meeting
- Two presentations to Select Board
- Developed How To Use A Center Turn Lane Info Guide and shared it on social media and with Pleasant Street Center
- Press releases at key milestones
- Periodic social media posts

#### **Project Feedback**



340+

Comments Submitted by

230+

Residents and Neighbors

200+

Requested and Received Written Responses

#### **Major Themes**

- Anticipated traffic impacts
- Anticipated diversions
- Impacts of COVID-19 on pilot
- Intersection configurations
- Access to businesses
- Less speeding on Main Street
- Improper use of Center Turn Lane
- Increased safety for people walking and biking
- Longer wait times to exit side streets
- Emergency response vehicles

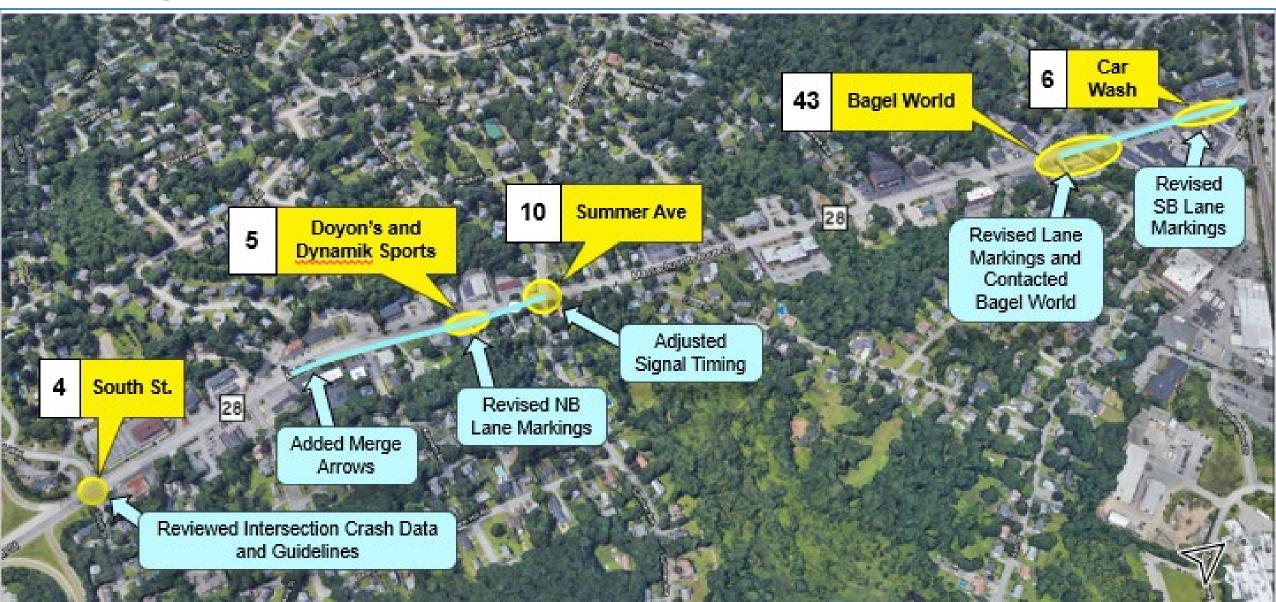
## South Main Street Comment Clusters during pilot period





## South Main Street Adjustments during pilot period





## North Main Street Comment Clusters during pilot period





## North Main Street Adjustments during pilot period & final design

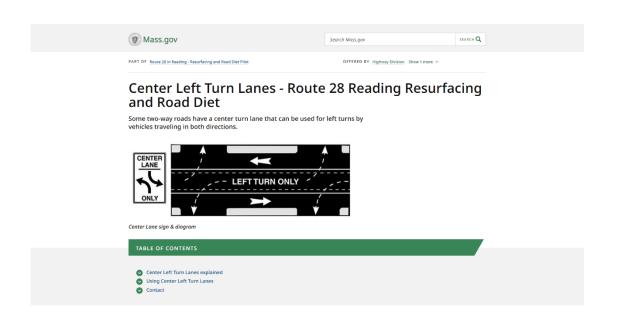




#### **Theme Highlight: Need for Education**



- Early on, reports of people improperly using the turn lanes to travel, speed, and pass
- Made design adjustments to reduce transitions, and people got used to the new markings
- MassDOT developed educational resources: website page, instructional handout



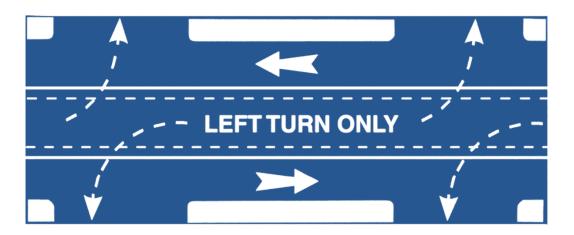


#### **Reminder on How to Use Center Turning Lanes**



- Drivers may not travel in a center turning lane
- Never use the center left turn lane as an ordinary traffic lane or for passing other vehicles
- Center left turn lanes should only be used when:
  - Making a left turn or a U-turn from the roadway when permitted
  - Making a left turn from a side street or driveway





#### **Turning Left From the Center Lane**





1. Plan for the turn.



2. Signal your turn at least 100 feet before making the turn.On a highway, signal at least 500 feet before a turn.



5. Watch out for oncoming vehicles that may be using the center turn lane.



6. When it is safe and the center turn lane is clear, enter the center turn lane.



3. Reduce your speed.



7. Make sure no part of your vehicle is blocking through traffic.



4. Check your mirrors for traffic behind you and check the blind spot on your turning side.



8. Wait in the center left turn lane until it is safe to turn left across the oncoming traffic lane.

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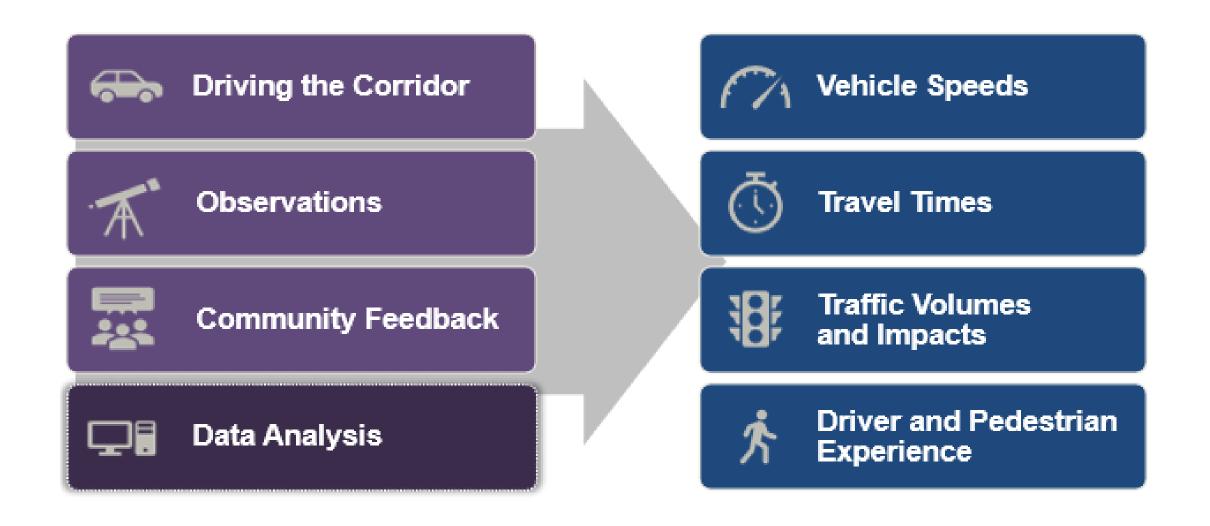
3. South Main Street Design



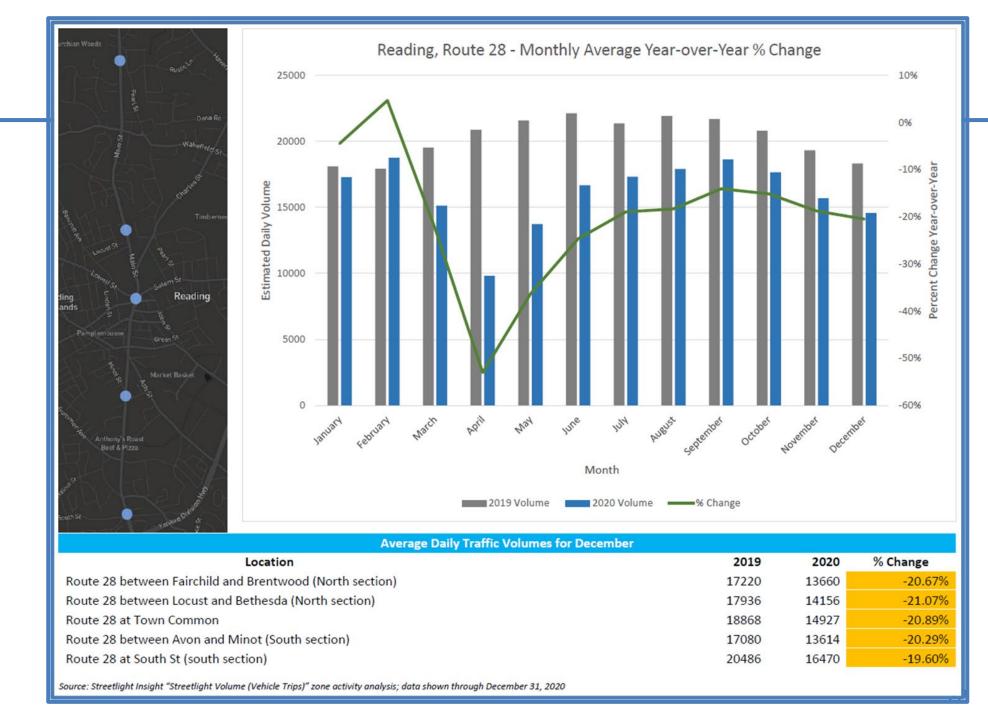
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#### **Pilot Evaluation: Data Analysis**





# Average Daily Volumes on Route 28/ Main Street



## Traffic Volumes At Additional Locations



#### **Percentage Change of Monthly Traffic Volumes**

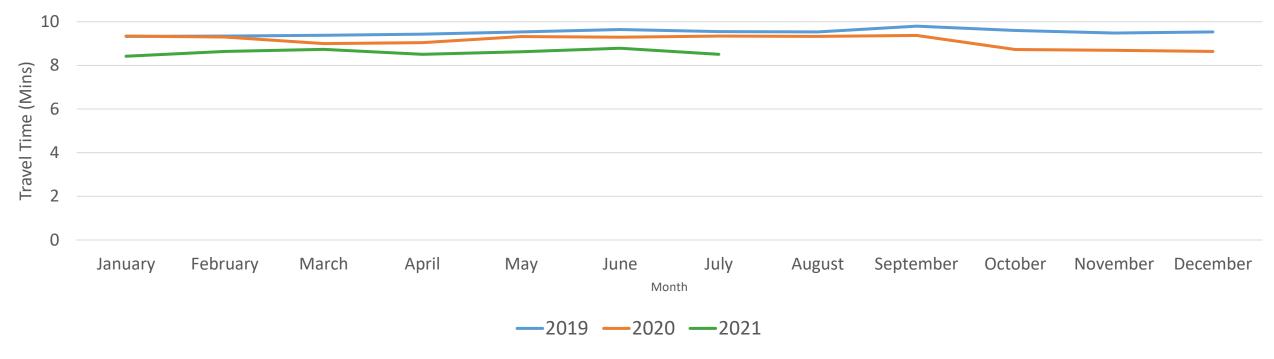


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#### **Average Travel Times**



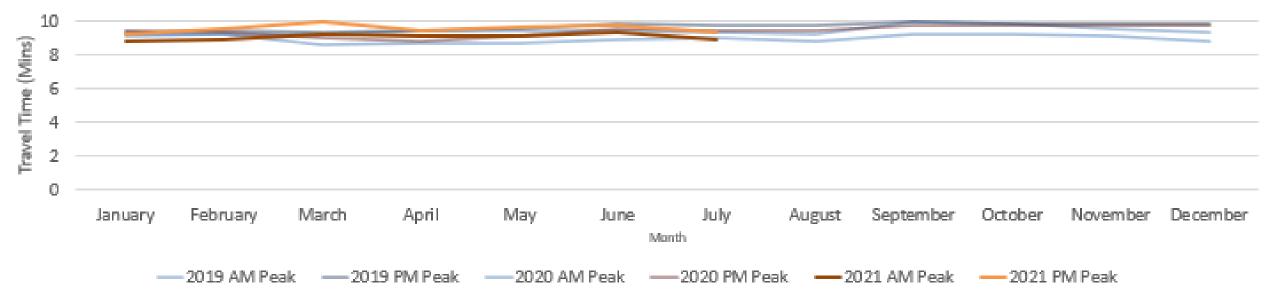




#### Average Travel Times: Morning (8-9 AM) and Afternoon (4-5 PM) Peaks





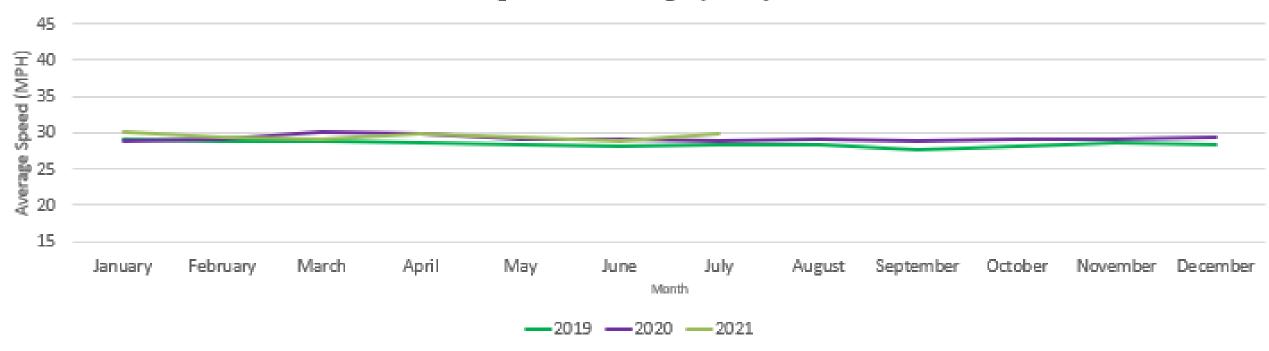


Source: RITIS Probe Data Analytics (INRIX); data shown through July 31, 2021. "AM Peak" is assumed to be 8-9AM; "PM Peak" is assumed to be 4-5PM.

#### **Average Vehicle Speeds**





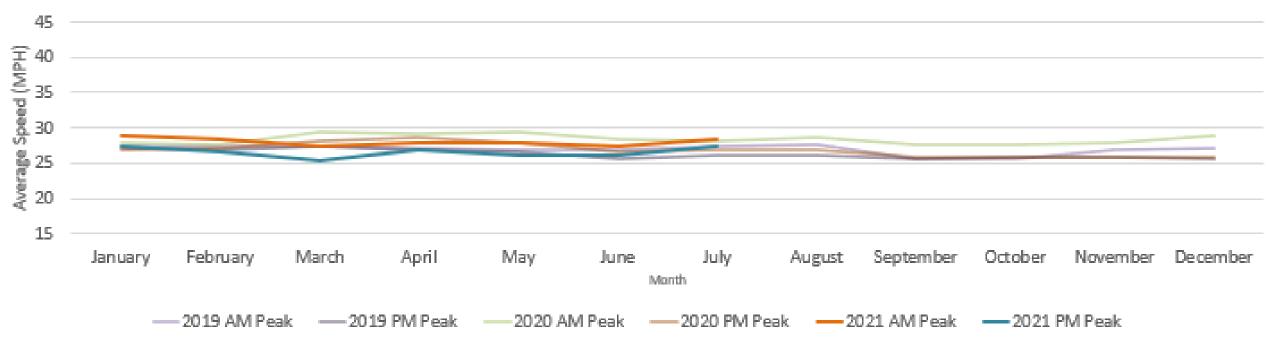


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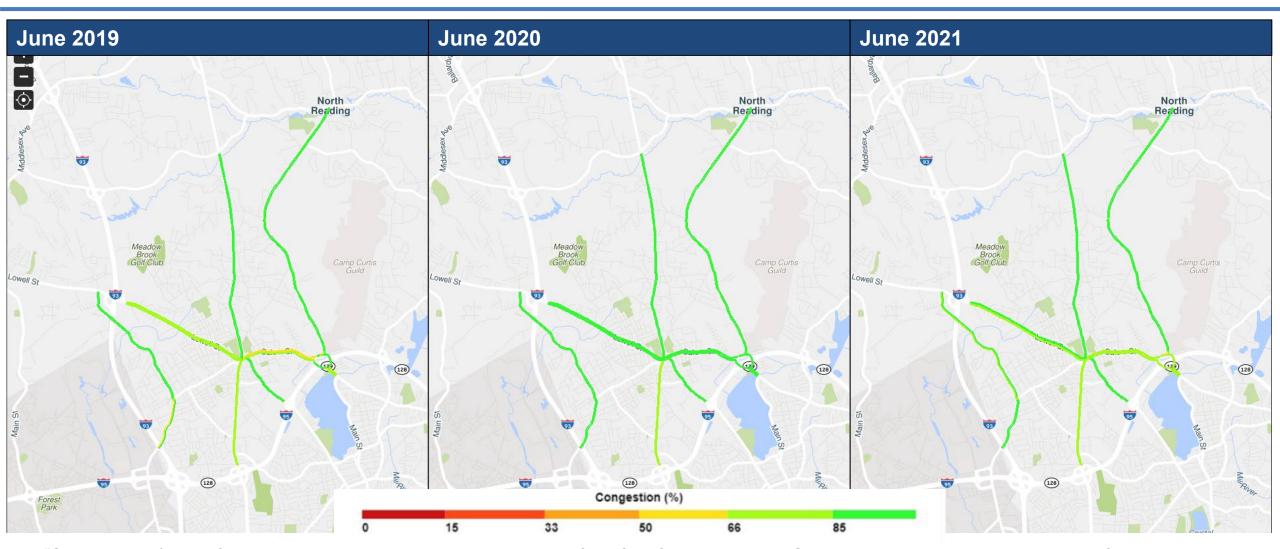




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#### Morning (8 – 9 a.m.) Congestion Percentages

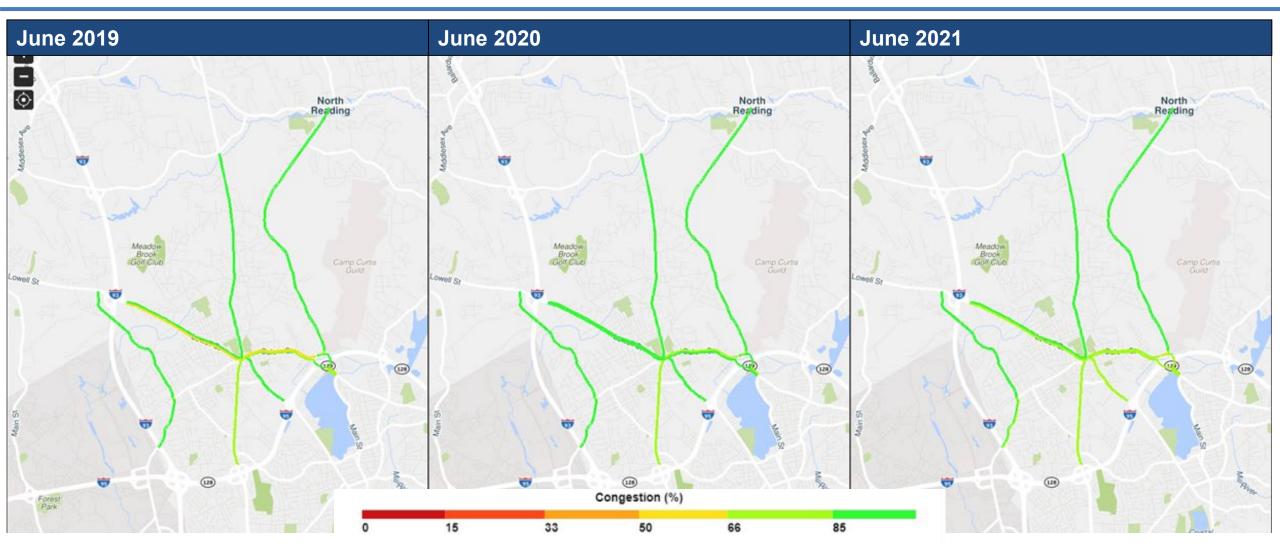




"Congestion %" is defined as measured speed as a percentage of the free flow speed. RITIS does not have complete coverage of all roadways within Reading. 2019 data includes segments (grey) with insufficient data coverage to display the congestion metric.

#### Afternoon (4 – 5 p.m.) Congestion Percentages





"Congestion %" is defined as measured speed as a percentage of the free flow speed. RITIS does not have complete coverage of all roadways within Reading. 2019 data includes segments (grey) with insufficient data coverage to display the congestion metric.

#### **Key Findings**



- Traffic volumes have stabilized at around 80% of what they were before the COVID-19 pandemic
- Average vehicle speeds on Main Street have stayed relatively consistent while other roadways in the region have seen an increase in speeding
- Average and peak travel times have stayed relatively consistent

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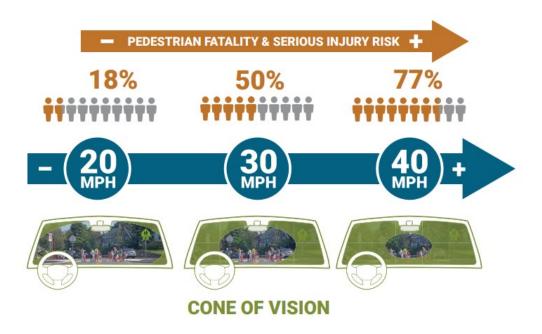


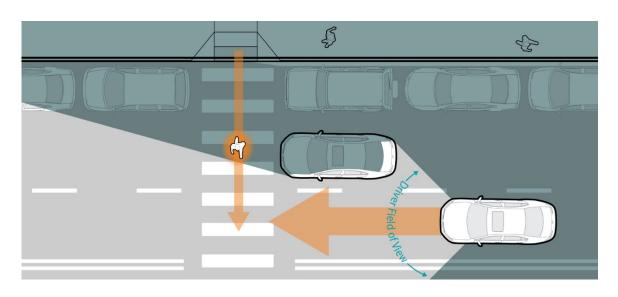
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#### **Pilot Conclusions – South Main Street**



- Based on our findings, we believe the pilot lane configurations have reduced vehicle speeding and improved pedestrian safety
- North of Summer St: two-way left turn lane
- South of Summer: (towards interchange) returned to 2-and-2





## South Main Street – Design Overview Interchange to Summer Ave





### **South Main Street – Design Overview**Summer Ave to Town Center





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Continue Meeting and Coordinating with Town Staff										

#### **Monitoring After Project Completion**



- MassDOT will continue to monitor available safety, speed, and crash data over the life of the pavement
- We will continue to review public inquiries submitted to MassDOT District 4
- Ongoing communication and routine coordination with Town of Reading staff

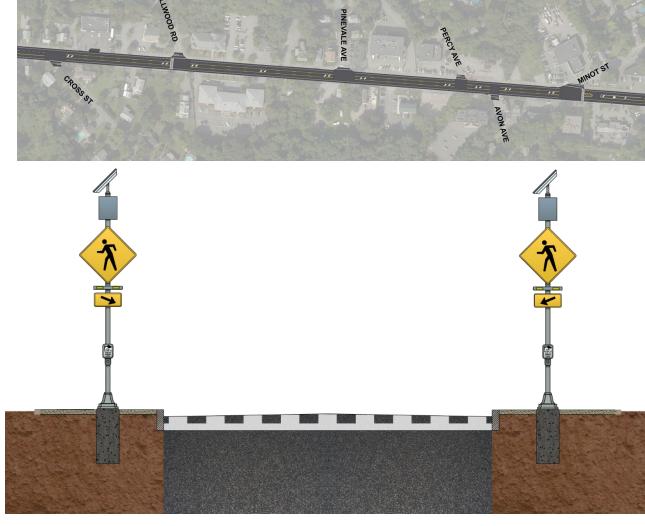


#### **Related Project Updates:**

#### Pedestrian Crossings at Knollwood and Minot



- Town asked MassDOT to assess ways to improve crossing safety at Knollwood Road and Minot Street
- These crossings may be appropriate for RRFBs
- MassDOT will evaluate both locations post construction to confirm feasibility/appropriateness
- Appropriate enhancements can be implemented using available on-call pedestrian safety contracts

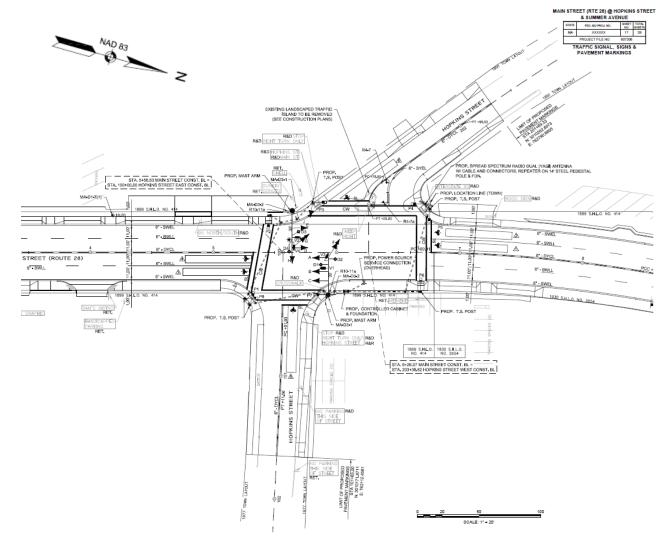


#### **Related Project Updates:**

**Hopkins Street Intersection Construction** 



- Project scope: add traffic signals, crosswalks, rebuild intersection, replace signals at Summer Street
- Timing is being coordinated between projects, including matching to Rt. 28 final design
- Utility relocation expected to start within a few weeks
- Full construction starting next spring 2022

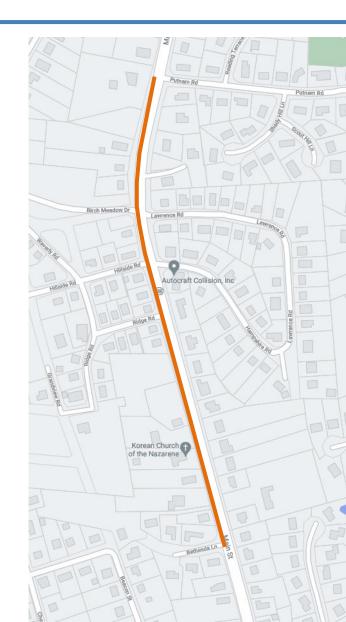


#### **Related Project Updates:**

#### **National Grid Utility Repairs**



- This spring, National Grid notified MassDOT of water intrusion and damage to ~2,100 ft. of gas line on North Main Street from Bethesda Lane to just north of Birch Meadow (including some side streets)
- Spot repairs performed, trench restored and repaved
- National Grid believes that it has addressed the water intrusion and damage without requiring full replacement
- If any further work is required, MassDOT District 4 will require National Grid to obtain an Access Permit. When intrusive work is completed, they would be required to:
  - Install a permanent patch where the utility work takes place
  - If substantial, mill and resurface the roadway and restore all sidewalks and pavement markings throughout the affected area





#### **THANK YOU**

#### LEARN MORE

**Visit:** mass.gov/route-28-in-reading-resurfacing-and-road-diet-pilot

**Search:** 'Route 28 Road Diet Pilot'

#### **CONTACT US**

Email MassDOT and District 4 Staff: dot.feedback.highway@state.ma.us

#### **Q&A Guidelines**





"Raise your hand" to be unmuted for verbal questions



Submit your questions and comments using the chat panel



Please state your name before your question



• Please share only **1** question or comment at a time and limit your time to no more than **2** minutes to allow others to participate.



• To ask a question via phone, dial \*9 and the moderator will call out the last 4-digits of your phone number and unmute your audio when it is your turn.



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