#### Removal of the Exit 21 Off-Ramp on Interstate 84 Eastbound (EB) in Waterbury

#### State Project No. 151-340







Conceptual Public Information Meeting/CEPA Scoping Meeting



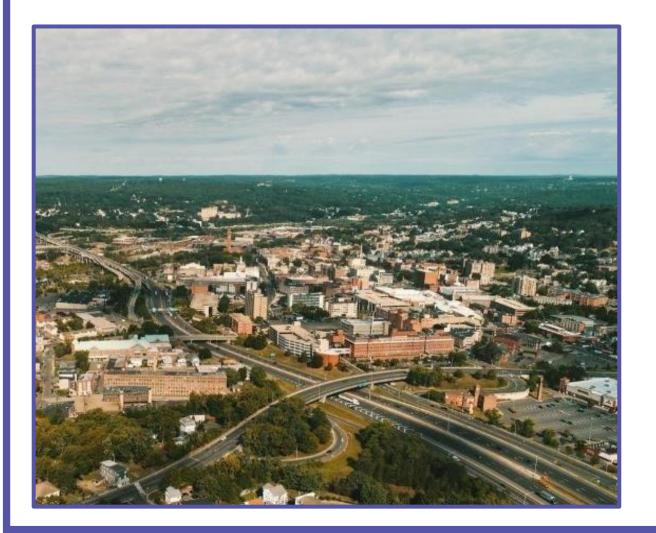
March 23, 2023

# Welcome!



### Removal of the Exit 21 Off-Ramp on Interstate 84 EB in Waterbury

#### **Project Leadership Team**



#### **Connecticut Department of Transportation**

- Michael N. Calabrese, PE, Division Chief
- Nilesh Patel, PE, Principal Engineer
- Jonathan Dean, PE, Project Manager
- Joe Belrose, EIT, Project Engineer

#### **HNTB Corporation**

- Rudy Franciamore, PE, Project Manager
- David Schweitzer, PE, Technical Advisor
- Anna Mariotti, Public Information & Involvement





- Connecticut Environmental Policy Act (CEPA)
- > The New Mix: Overview & Breakout Projects
- > Removal of Exit 21 Off-ramp on I-84 Eastbound (EB) in Waterbury
  - ✤ Need
  - Purpose & Components
  - ✤ Benefits
- Next Steps & How to Stay Involved
- > Question & Answer Session



### **Connecticut Environmental Policy Act (CEPA)**

#### **CEPA Core Purpose**

- Identify and assess potential environmental impacts
- Evaluate alternatives to avoid or minimize such impacts
- Public Involvement

CEPA review required for any State action that could have major impact on the environmental, social, and/or economic resources









### CEPA

#### **Physical**

- Air Quality & Greenhouse Gas Emissions
- Noise
- Traffic
- Utilities & Services
- Stormwater
- Solid & Hazardous Waste
- Aesthetics & Scenic Resources
- Cultural Resources
- Energy Use

#### <u>Natural</u>

- Erosion or Sedimentation
- Surface Water
- Groundwater
- Floodplains
- Wetlands
- Fisheries
- Plants & Wildlife/ State Listed Species
- Changing Climate/Resilience

#### <u>Socioeconomic</u>

- Land Use & Zoning
- State, Regional and Local Land Use Planning
- Public Health & Safety
- Recreational Resources
- Environmental Justice
- Plan of Conservation & Development





### CEPA

### What is CEPA Scoping?

 Gathering and analysis of information that a state agency will use to establish the breadth of environmental review of a proposed project.

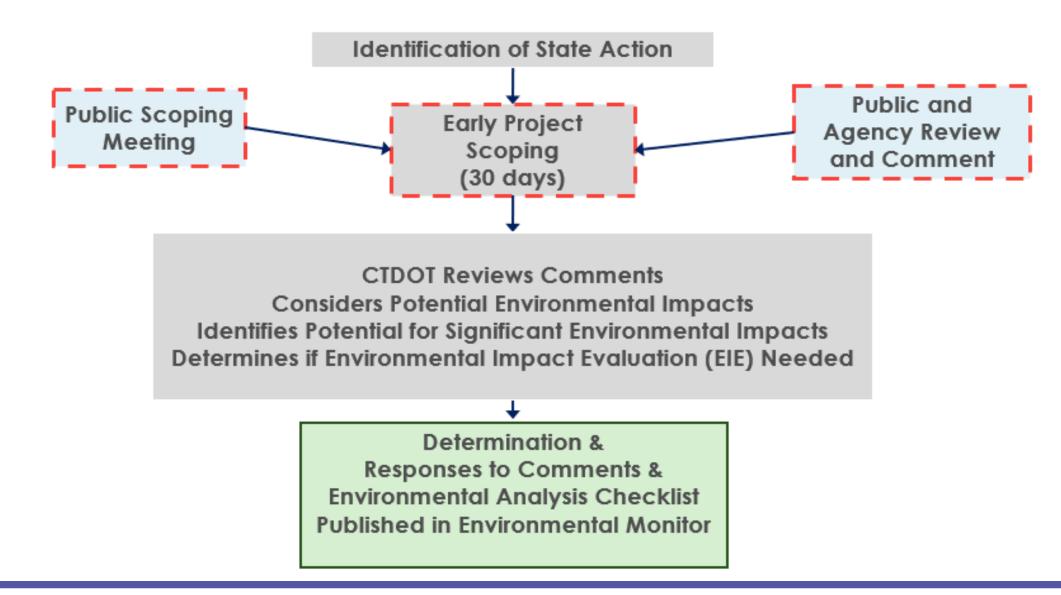
#### **Public Scoping Process**

- Publish Notice of Project in Environmental Monitor
- Minimum 30-day public comment period
- Identify environmental concerns / potential alternatives
- Public Scoping Meeting
- Determine if an Environmental Impact Evaluation (EIE) is needed

https://portal.ct.gov/CEQ/Environmental-Monitor/Environmental-Monitor/Environmental-Monitor---Current-Issue



### **CEPA Process**



### To Summarize, CEPA:

- Identifies & evaluates project's potential impacts the environment.
- Enables project team to judge the appropriateness of proceeding with the action
- Provides opportunity for public review & comment through an early scoping process and later review of any Environmental Impact Evaluations (EIE), if one is produced.

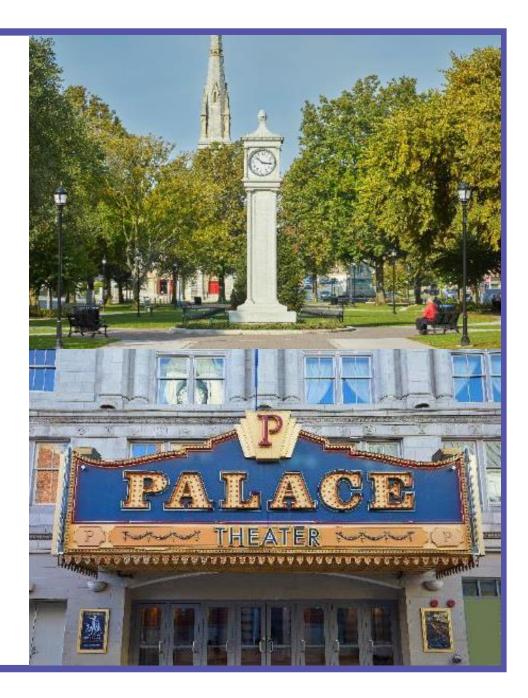




## The New Mix: Overview & Breakout Projects

### The New Mix Project: Overview

- Long-term plan for the future of the Mixmaster
- Analyze rehabilitation and replacement options that:
  - o Modernize
  - Improve safety & functionality
  - Improve function of local roadway network & the interchange
  - Reduce congestion
  - Align with economic development & community plans
- Projects will occur over time



### **Breakout Projects to Occur Over Time**





#### **Early Action Projects**

Standalone improvements to the highway and local roadway network

#### **Near-Term Projects**

Improvements to highway approaching Mixmaster compatible with Long-Term Projects



Reconstruction of core interchange structures



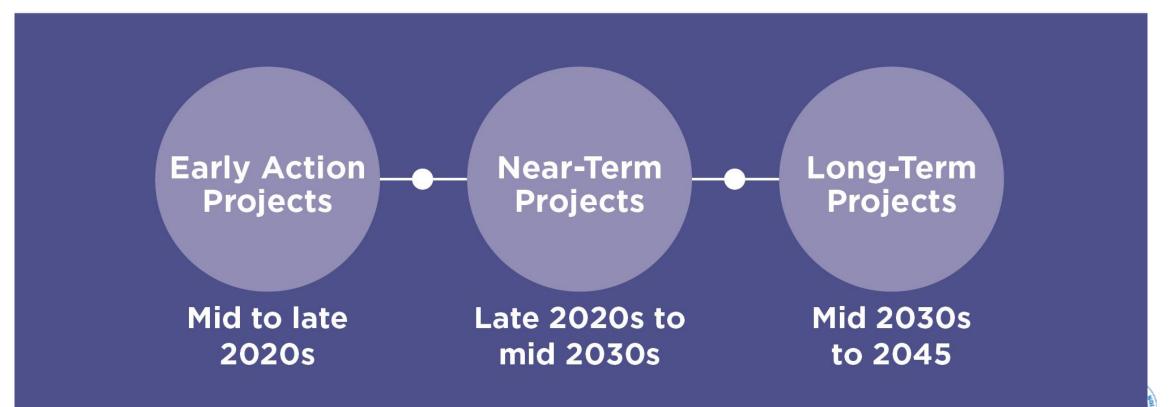




### **Breakout Projects Timeline**



Projects for the short- and long-term future of the Mixmaster Interchange.



Incremental Improvements. Increased Functionality. Enhanced Safety.

### **Early Action Projects**

- Smaller, standalone improvements to the highway & local roadway network
- Intended to improve safety & traffic operations
- Done in coordination with the City of Waterbury
- Review process separate from the New Mix

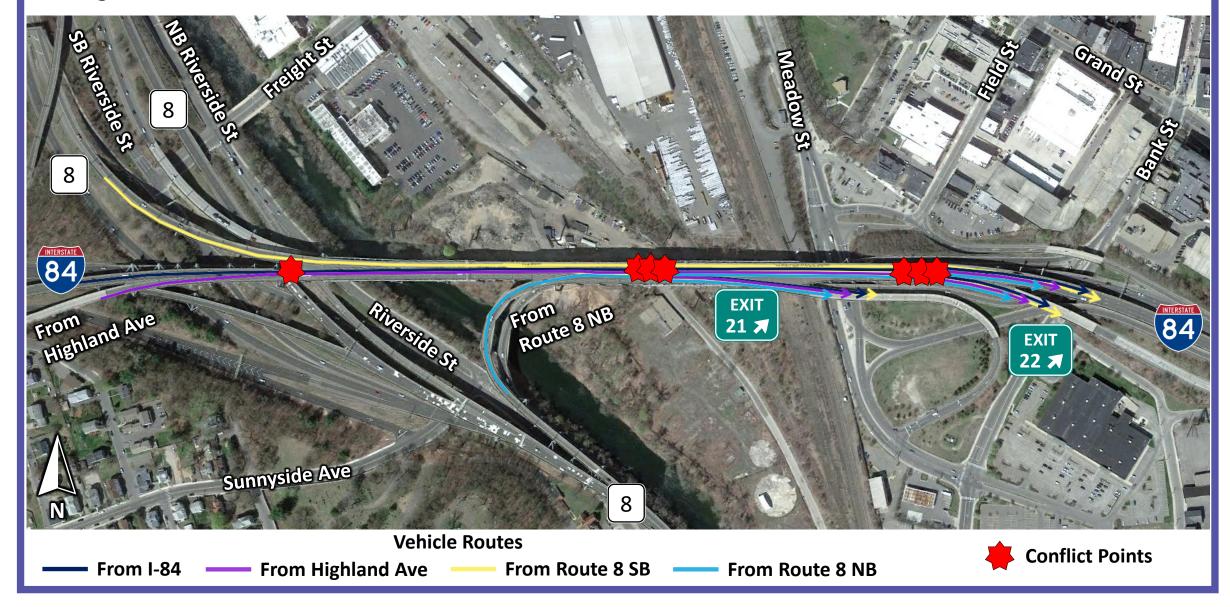




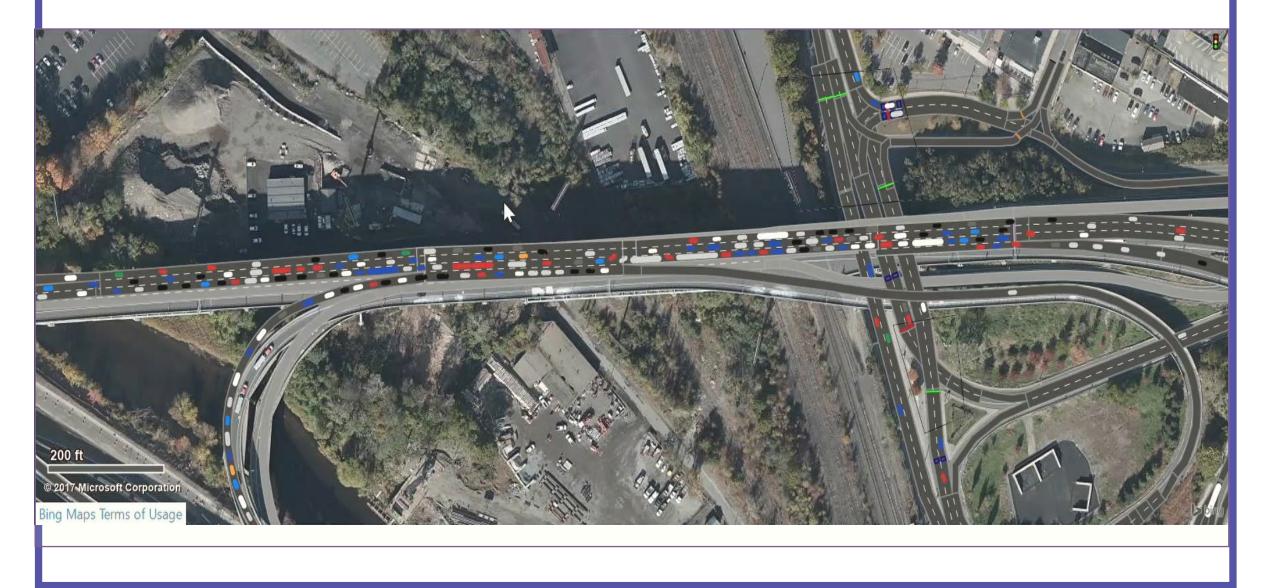
# Removal of the Exit 21 Off-Ramp on Interstate 84 EB in Waterbury:

**Project Need** 

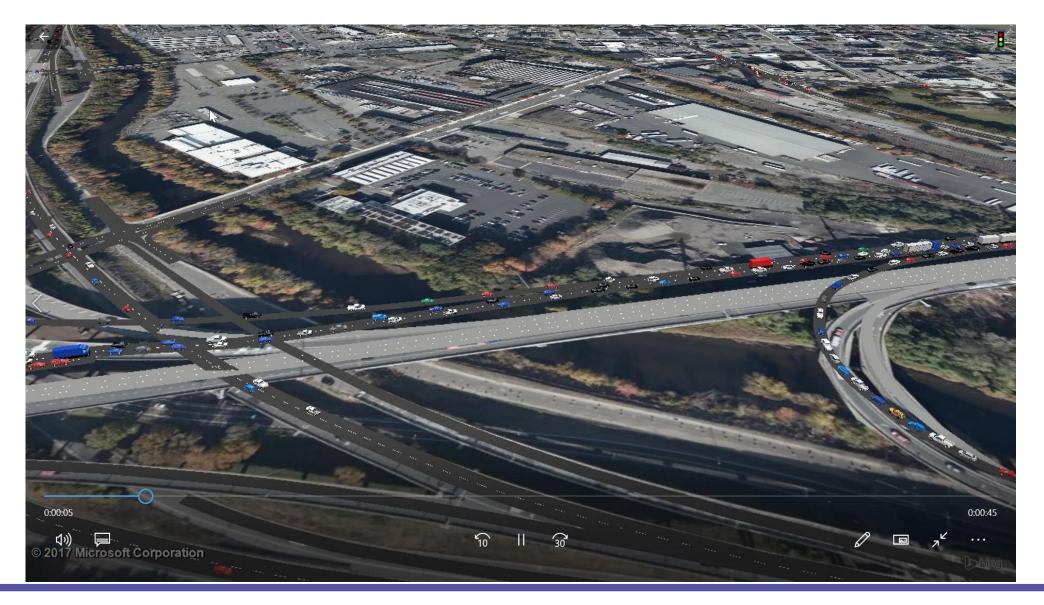
### **Project Need: Current Issues**



### **Project Need: Congestion (2017)**



### 2031: Conditions with Exit 21 Off-ramp Open (No Build)



### **Project Need: Summary**



- Substandard distances for Ramp Merges/ Weaves/ Diverges
- High Crash Location
- Recurring congestion
- Deficient Traffic Operations
- Bridge in poor condition

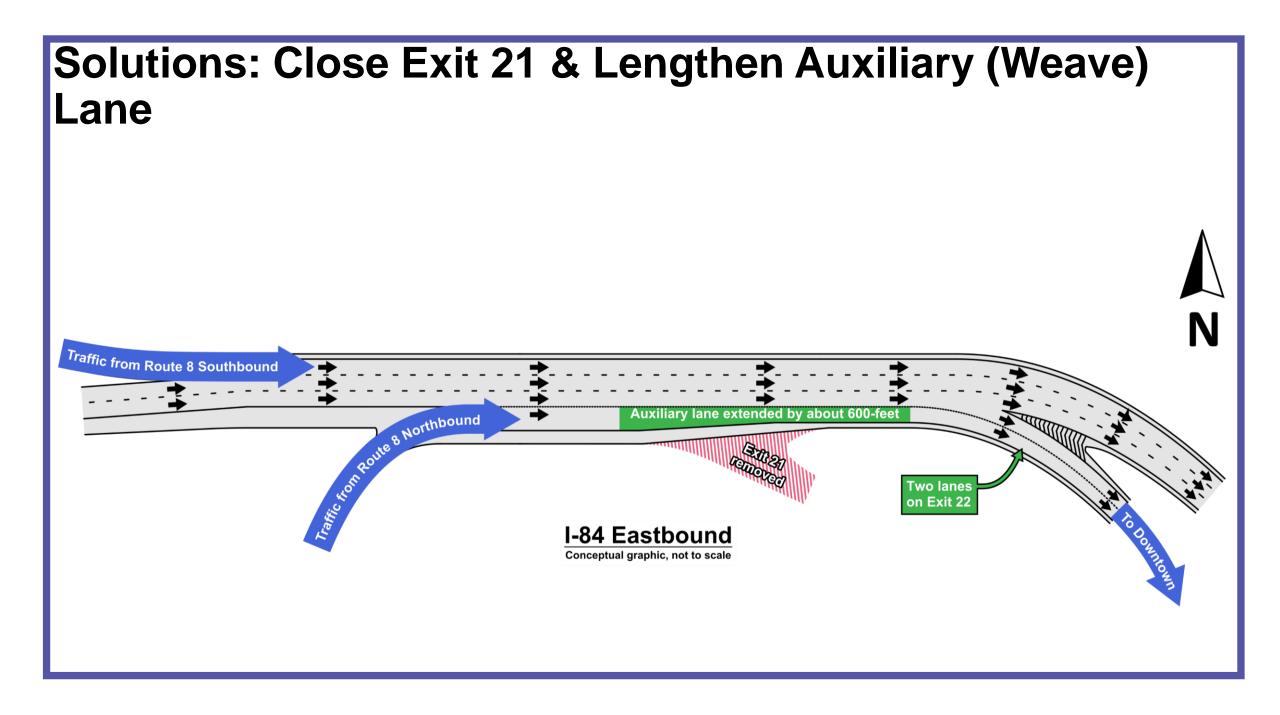
# Solutions: Project Purpose & Components

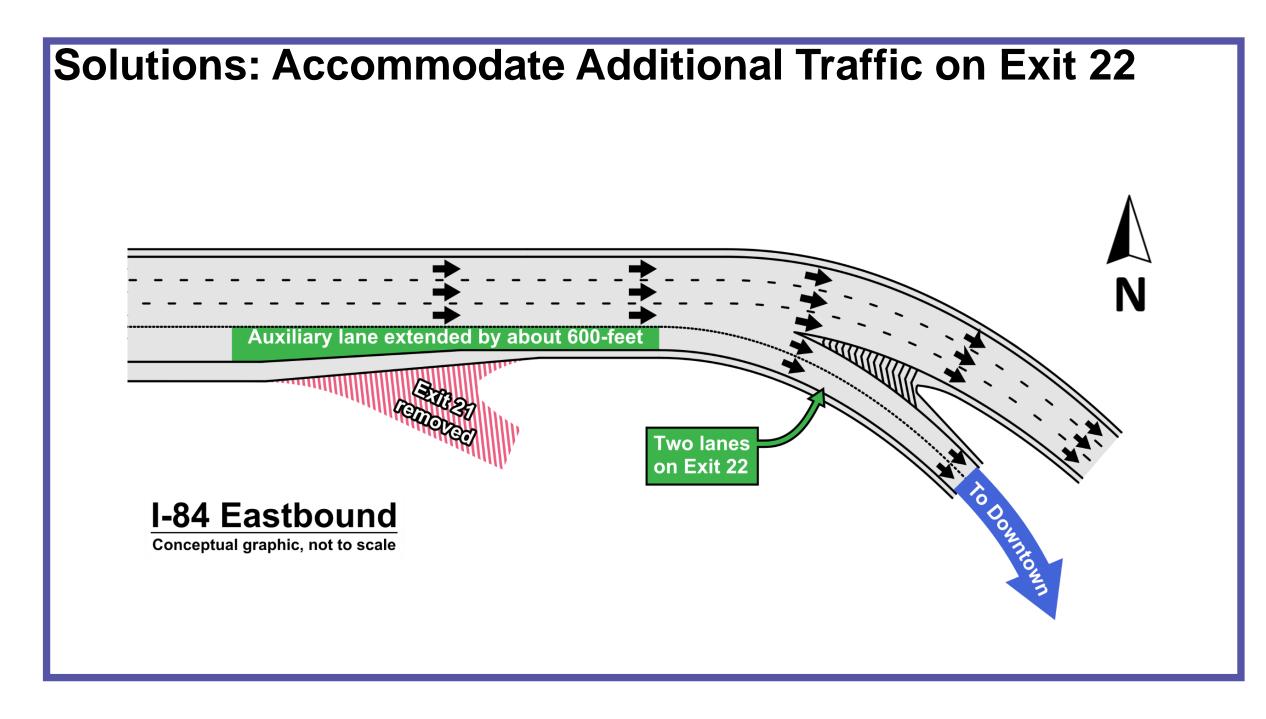
### **Project Purpose**

#### Improve:

- **Safety** on I-84 EB in the vicinity of Exits 19-22
- Traffic Operations on I-84 EB in the vicinity of Exits 19-22
- Air Quality (Reduction of idling cars)







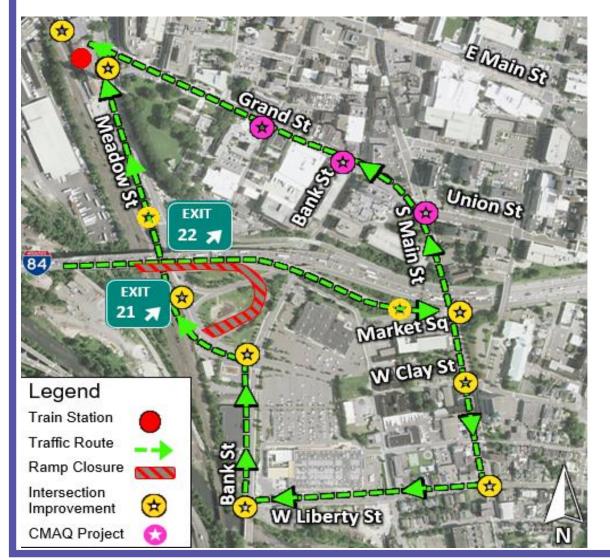
### 2031: Conditions with Exit 21 Closed (Build)





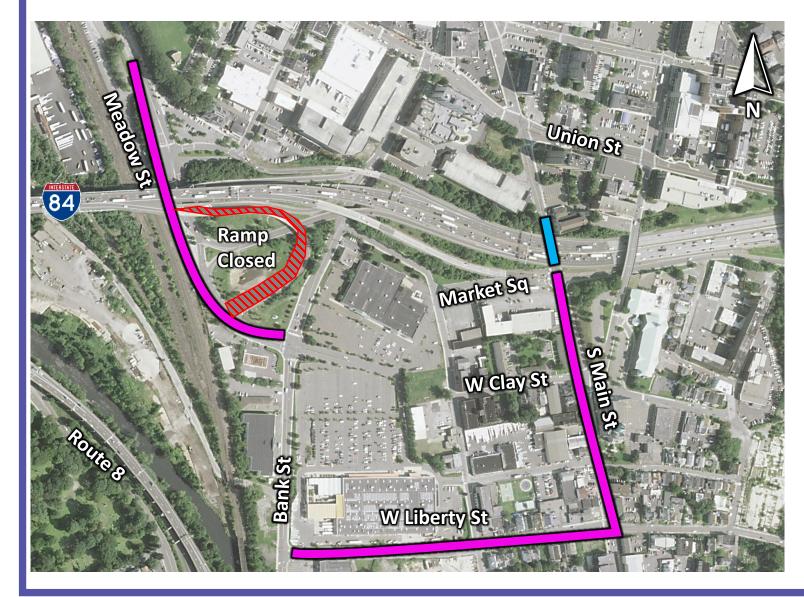


### Project Solutions: Improvements to Local Roadway Network to Accommodate Additional Traffic



- New traffic signal controls
- Signal phasing and timing improvements
- Pavement marking repositioning

### **Project Solutions: Urban Design Opportunities**





- Bike and Pedestrian
   Improvements
- Aesthetic Improvements (such as public art)
- Landscaping
- Wayfinding signage
- Lighting
- Formalized Parking
- Bus Shelters

### **Project Solutions: Urban Design Opportunities**

#### **Decorative Plantings**



Decorative plantings can bring life to the street, providing aesthetic interest and a buffer between vehicles and pedestrians.

#### Underpass Lighting



Well lit underpasses offer safe and inviting passage for all users.

#### Wayfinding Signage



Signage can help orient travelers and give an identity or brand to a city or neighborhood.

#### Pedestrian & Bicyclist Friendly Intersections



Pedestrian and bicyclist friendly intersections include safety features to make nonmotorized travel a more inviting and comfortable choice.

#### Public Art



Public art can help enliven a space and create a recognizable or meaningful landmark in a city.

#### **Bus Shelters**



Bus shelters protect transit riders from the elements. They can help improve the safety and comfort of bus patrons.

#### **Benches**



Public seating invites neighbors to enjoy the streetscape. Benches can encourage active street life, by offering respite or opportunities to gather. **Project Benefits** 

### Project Benefits: Improved Safety & Reduced Crash Rate on I84 EB

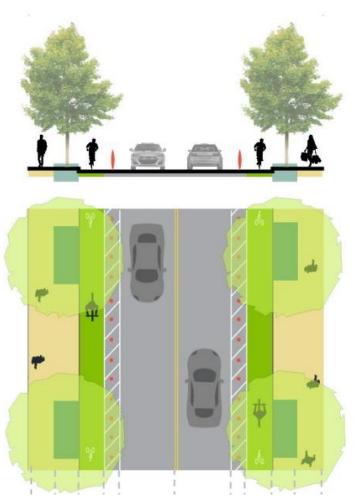
- Closing Exit 21 Off-ramp results in safety benefits to drivers
- Increased safety & potential 9-10% reduction in crashes in vicinity of Exit 22
- Improved traffic operations on highway, potentially improving air quality

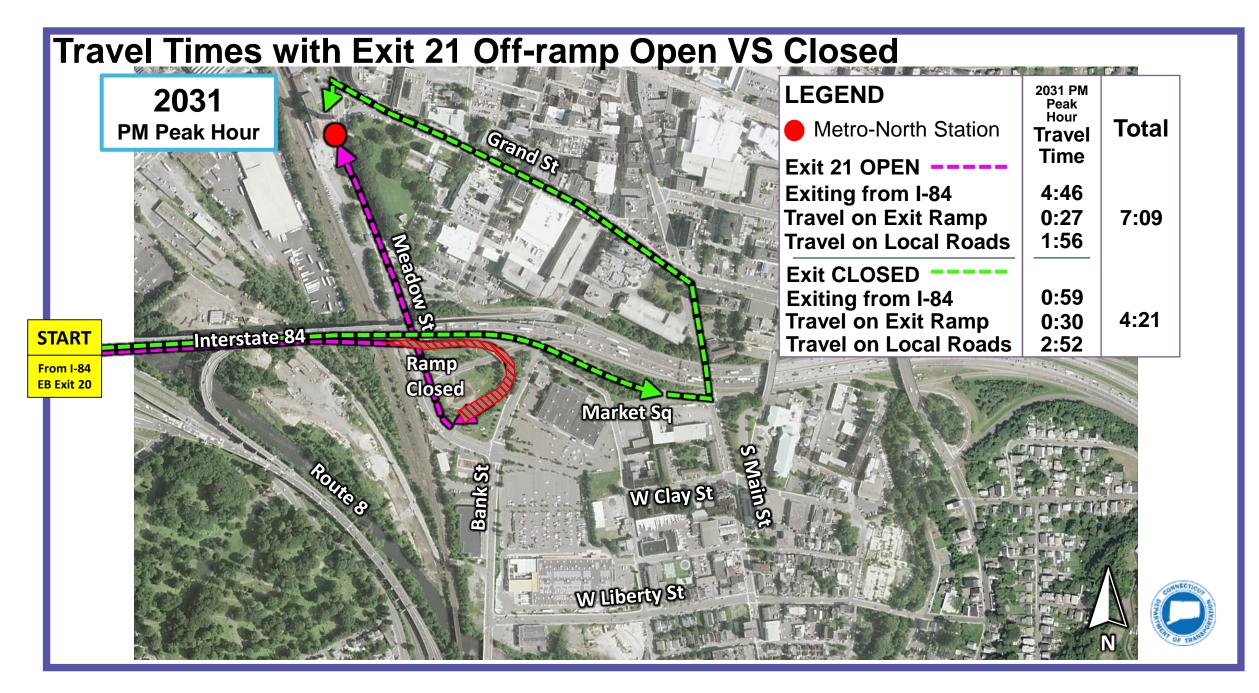


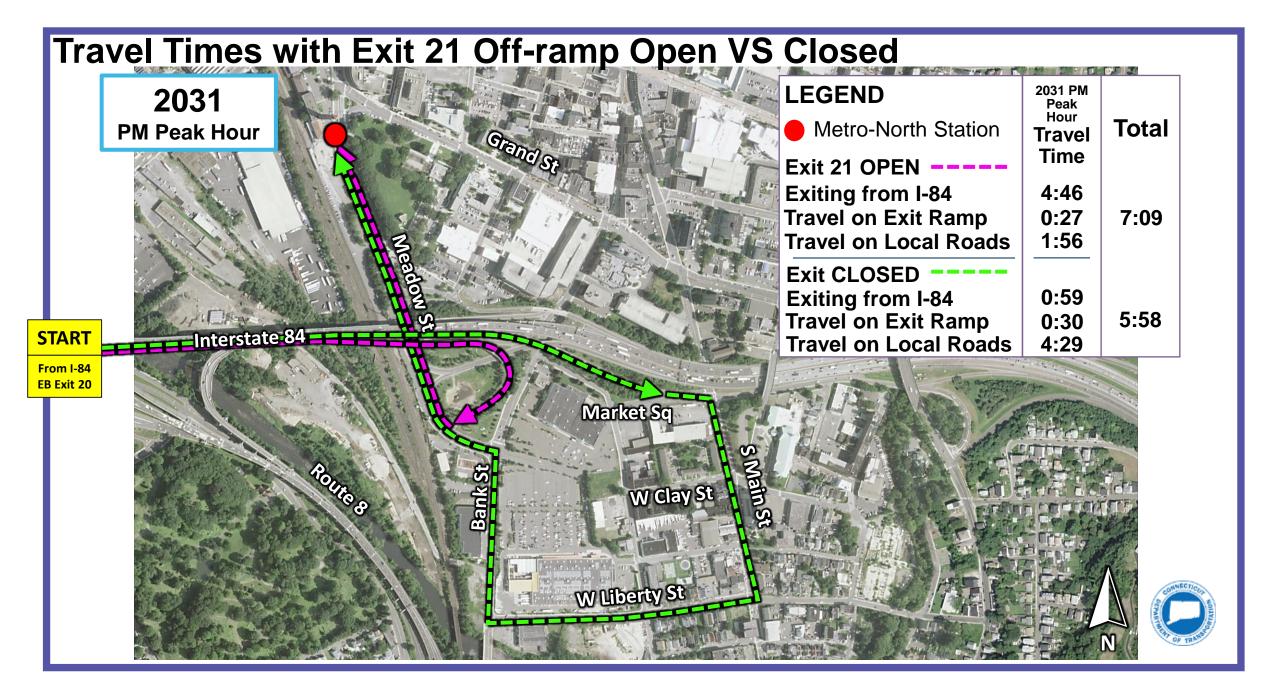


# Summary of Expected Benefits to Local Roadway Network

- Improved traffic operations
- Streetscape and urban design for safer & welcoming streets for bicyclists & pedestrians
- Improved safety for pedestrians & bicyclists
- Beautification of area with Urban Design elements such as public art, decorative plantings, wayfinding signage
- Improved Travel Times to Key Destinations







### **Anticipated Project Cost & Timeline**



#### Anticipated cost \$20 - \$25M

# Next Steps & How to Stay Involved

### Don't forget to share your input!

For consideration under CEPA scoping, please share your input by the close of business on Monday, April 10, 2023, using any of the methods below.

- On the New Mix website's comment form, found at: <u>https://bit.ly/NewMixInput</u>
- Leaving a voice message on the New Mix Project's comment line at 203-805-8018
- Emailing <u>TheNewMixWaterbury@gmail.com</u>
- Mailing comments to: New Mix Project CEPA Comments, Attn: Jonathan Dean, Project Manager, 2800 Berlin Turnpike, PO Box 317546, Newington, CT 06131-7546





### **Next Public Meeting**

Anticipated in June/July 2023

Where: Maloney Magnet School

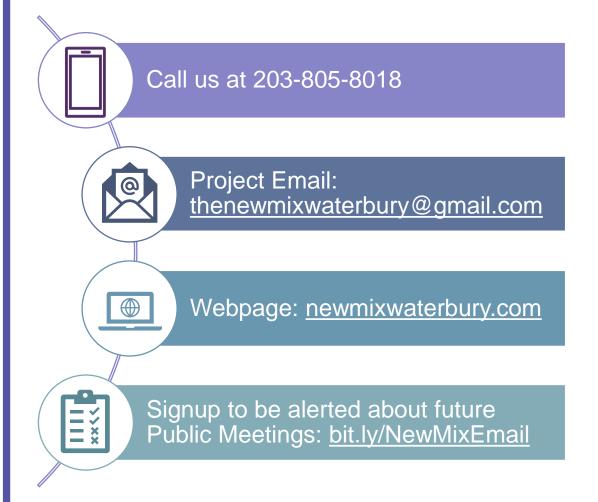
**Topics:** Overall Project Update, Urban Design Discussion & Feedback, Overview of CEPA Public Comments Received, Next Steps, Q&A



# **Question & Answer Session**

State Project # 151-340

Share your feedback, input and ask questions:











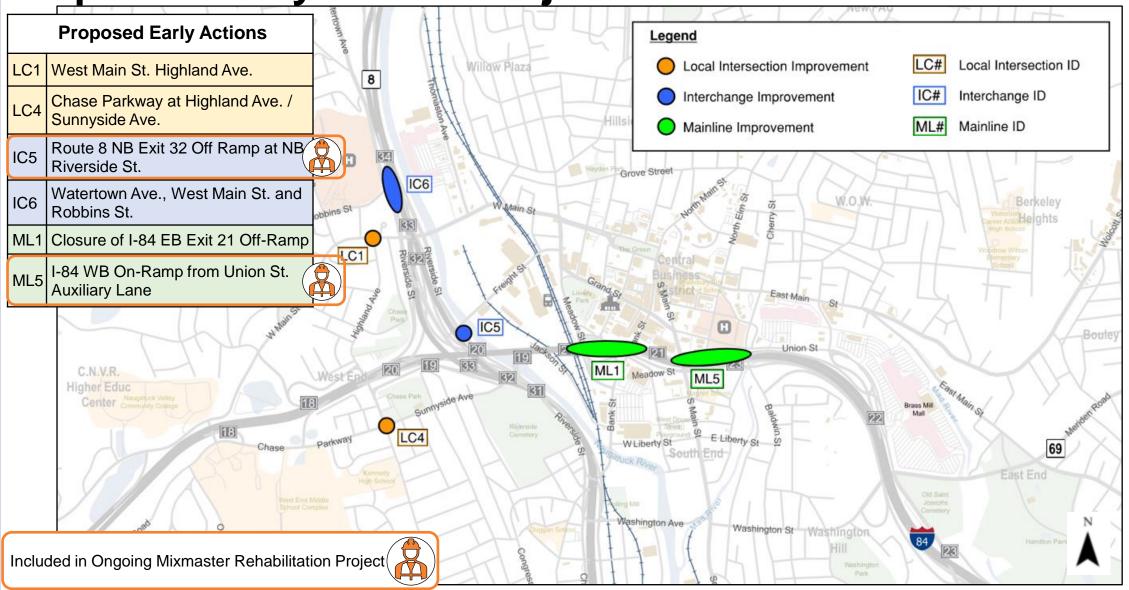
# Thank you.



# **EXTRA SLIDES**



### **Proposed Early Action Projects**



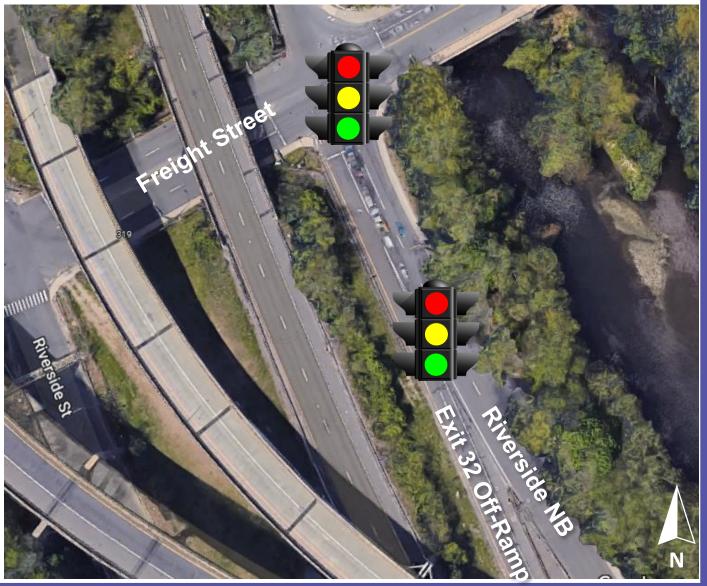
# Early Action Project Example – Local Road

Route 8 NB Exit 32 at Freight Street/Riverside Street NB

Deficiencies	Solutions
<ul> <li>High Crash Location</li> <li>Deficient Traffic Operations at West Main Street</li> </ul>	<ul> <li>Install offset traffic signal</li> <li>Clustered Control</li> <li>Optimize signal timing</li> <li>Modify approach alignments</li> </ul>

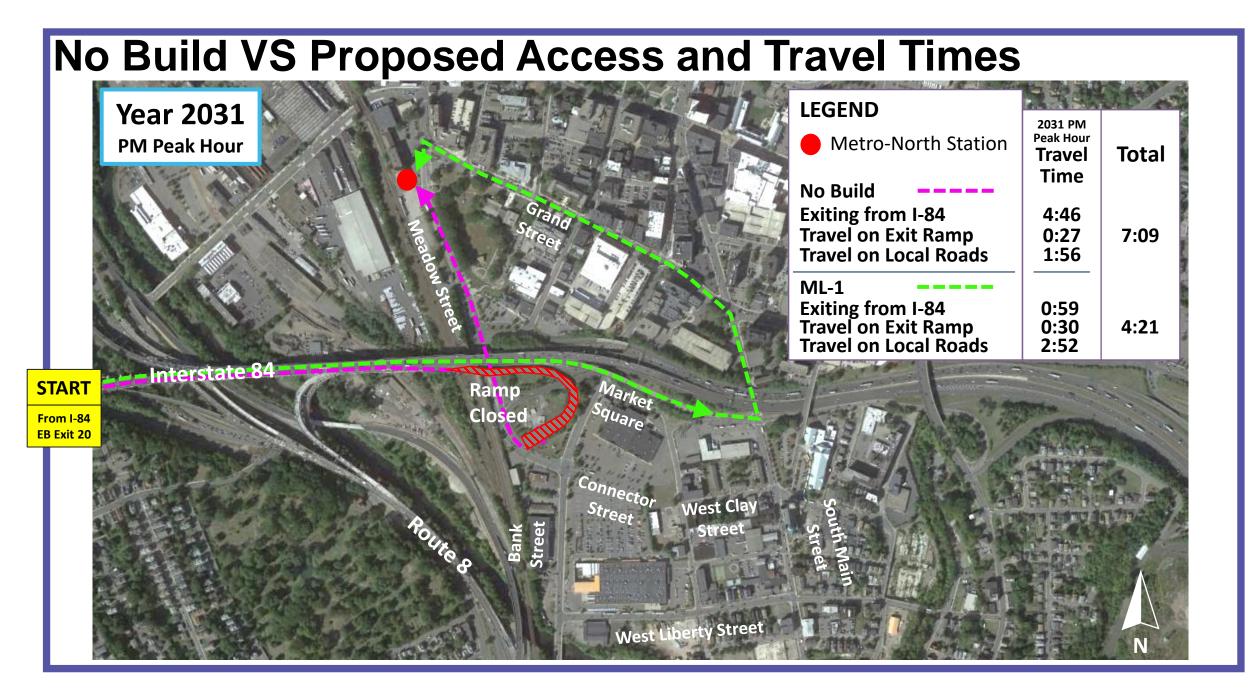
#### **Intended Outcomes**

- •Relieve pressure from West Main Street signal
- Improve traffic operations
- •Reduce congestion (improve air quality)
- •Reduce crash rate (improve safety)
- Low impact solution
- Included in rehabilitation project (reduces rework)



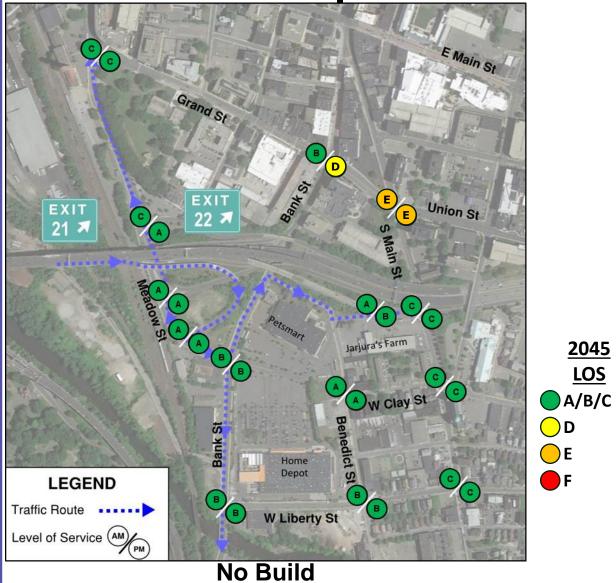
# **Proposed Early Actions: Exit 21**

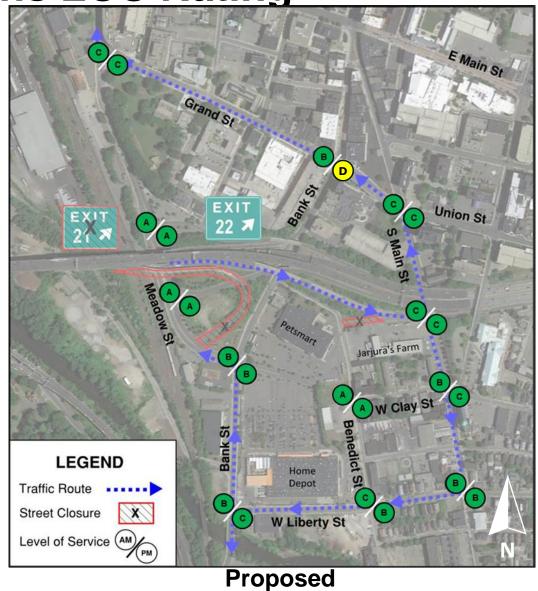




#### No-Build VS Proposed Conditions LOS Rating

<u>2045</u> <u>LOS</u>





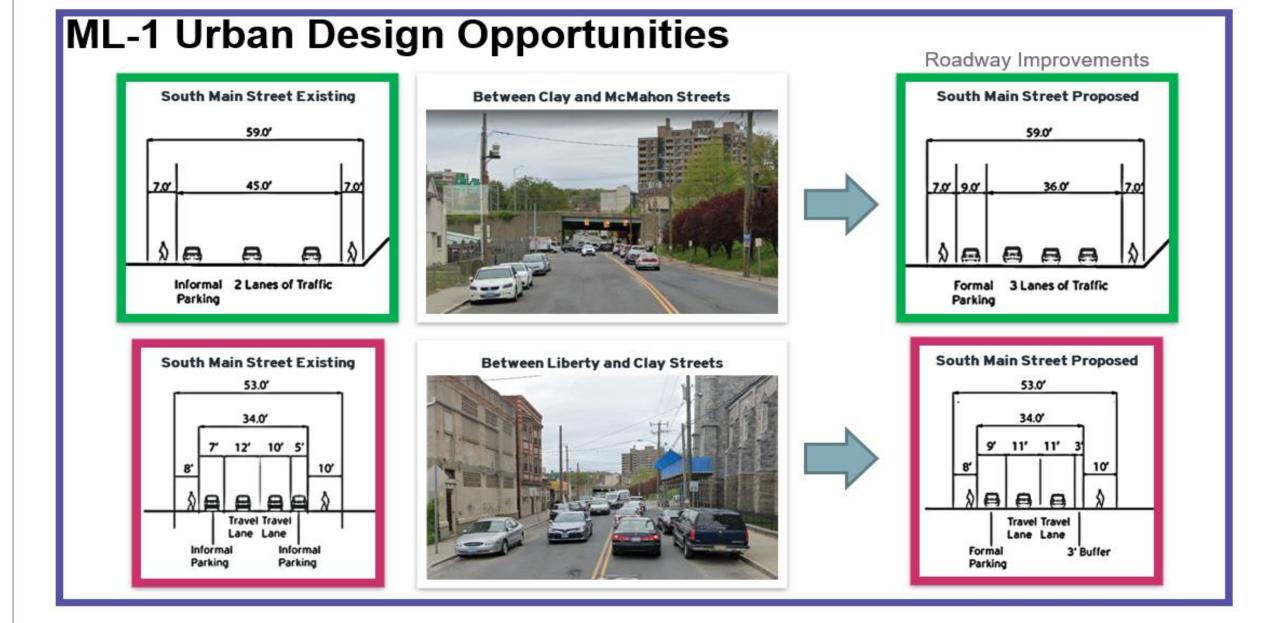
#### Solutions: Urban Design Opportunities



Needs and of PEL Study and Need a	Develop Evaluation Criteria and Conceptual Alternatives	
NEEDS (problems)	PURPOSE (solutions)	
Structural Deficiencies	To improve I-84/Route 8 bridge conditions.	
Geometric Deficiencies	To improve I-84/Route 8 roadway conditions.	
Operational (Traffic) Deficiencies (including congestion)	To improve the level of service of I-84/Route 8 and associated local road network.	
GOALS & OBJECTIVES (Intended Outcomes)		
<ul> <li>Allow for connections to the Naugatuck River and Greenway;</li> <li>Enhance mobility equity and safety for bicyclists and pedestrians;</li> <li>Integrate the Project with ongoing City projects;</li> </ul>	<ul> <li>Improve system performance;</li> <li>Reduce congestion;</li> <li>Reduce crash rates;</li> </ul>	
<ul> <li>Improve access to Downtown and key destinations;</li> <li>Strengthen surrounding neighborhoods as gateways to the City's Central Business District (CBD);</li> </ul>	<ul> <li>Maintain critical system linkages in Connecticut and the Northeast;</li> <li>Facilitate connectivity with Waterbury through the local road network including multimodal travel;</li> </ul>	

- Support City revitalizing goals of the CBD;
- Enhance access to multimodal facilities;
- Avoid, minimize or mitigate potential Project consequences to the environment;
- Improve the local roadway network;
- Reduce interchange complexity;

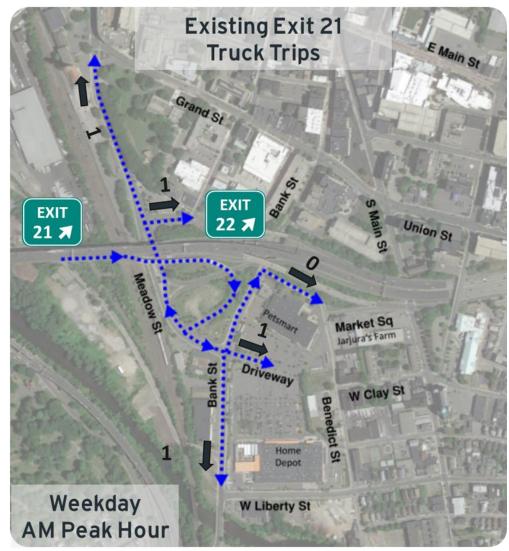
May be further refined to incorporate issues and data identified during stakeholder and public involvement processes including coordination with project partners and the public.

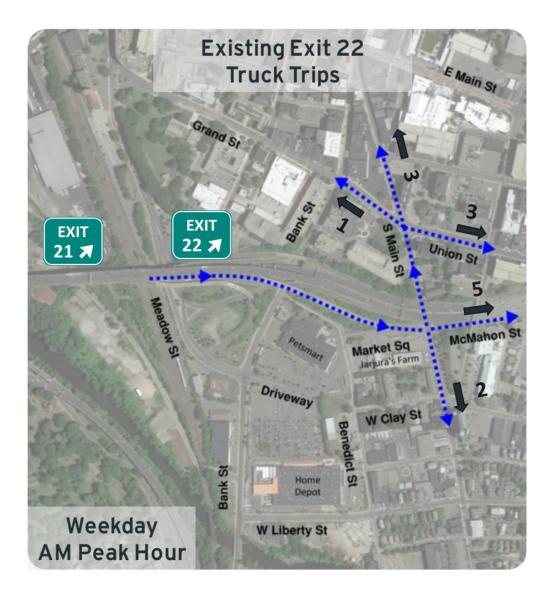


#### Large Truck Data

- Between 75 and 125 = Average daily trucks on I-84 Eastbound Exit 21
  - 48% traveling North and 52% traveling South
  - Typically less than 10 trucks during weekday peak hours
- Between 125 and 275 = Average daily trucks on I-84 Eastbound Exit 22
  - 41% traveling North and 14% traveling South
  - Typically less than 20 trucks during weekday peak hours
  - Assumed to increase by 50% after Exit 21 is eliminated
- Local road network improvements will be implemented between Exit 22 and Meadow/Bank Street intersection (apparent large truck destination) that should allay safety concerns

# Large Truck Data





### Large Truck Data

