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



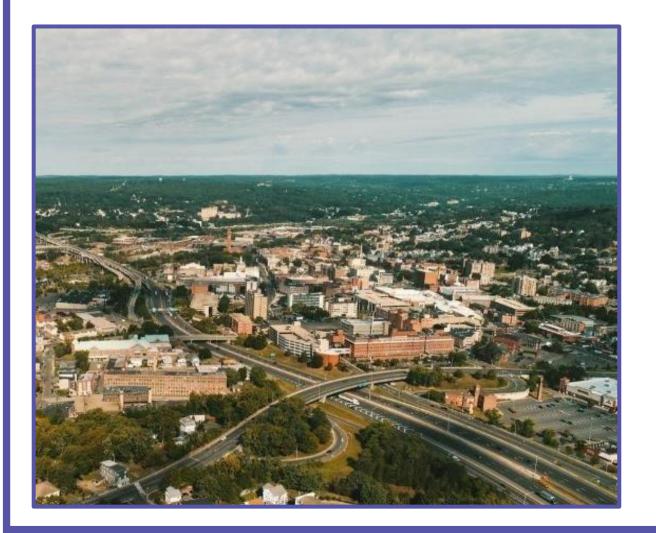
March 23, 2023

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.

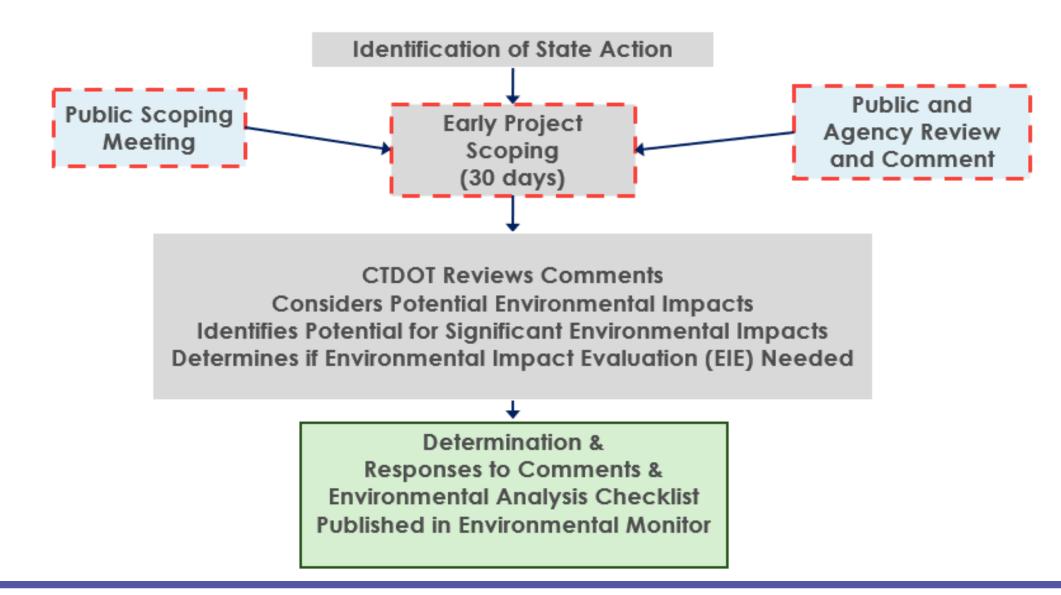
Public Scoping Process

- 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.

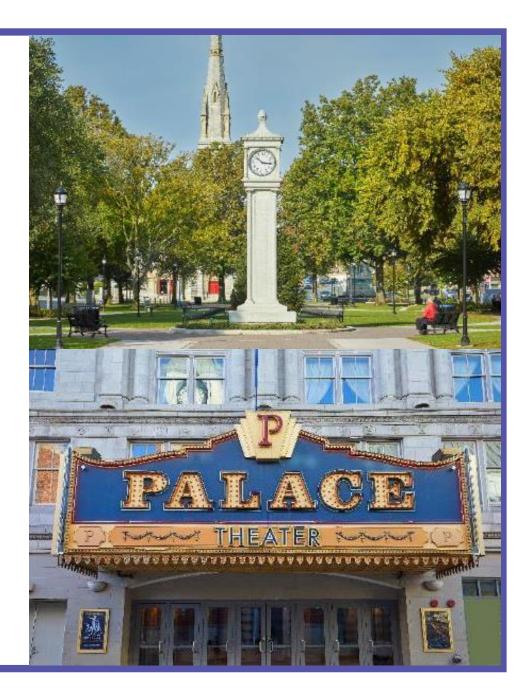




The New Mix: Overview & Breakout Projects

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



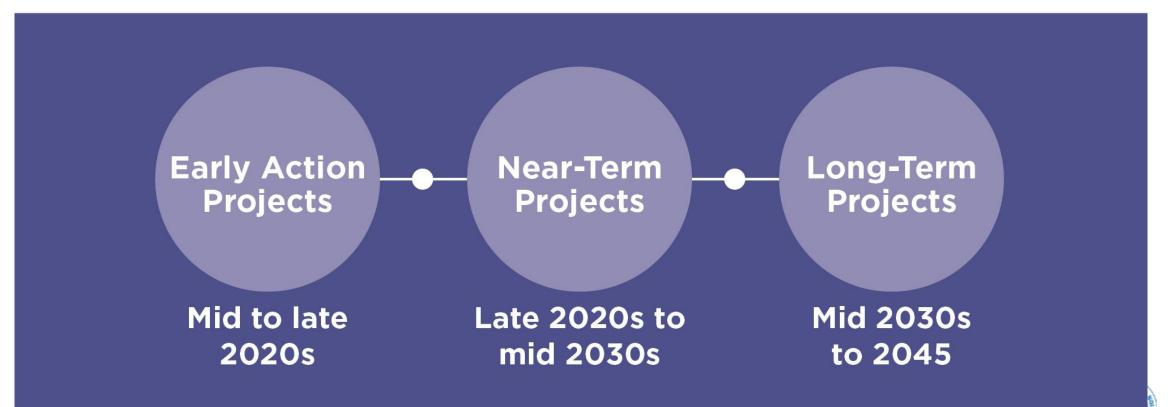




Breakout Projects Timeline



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

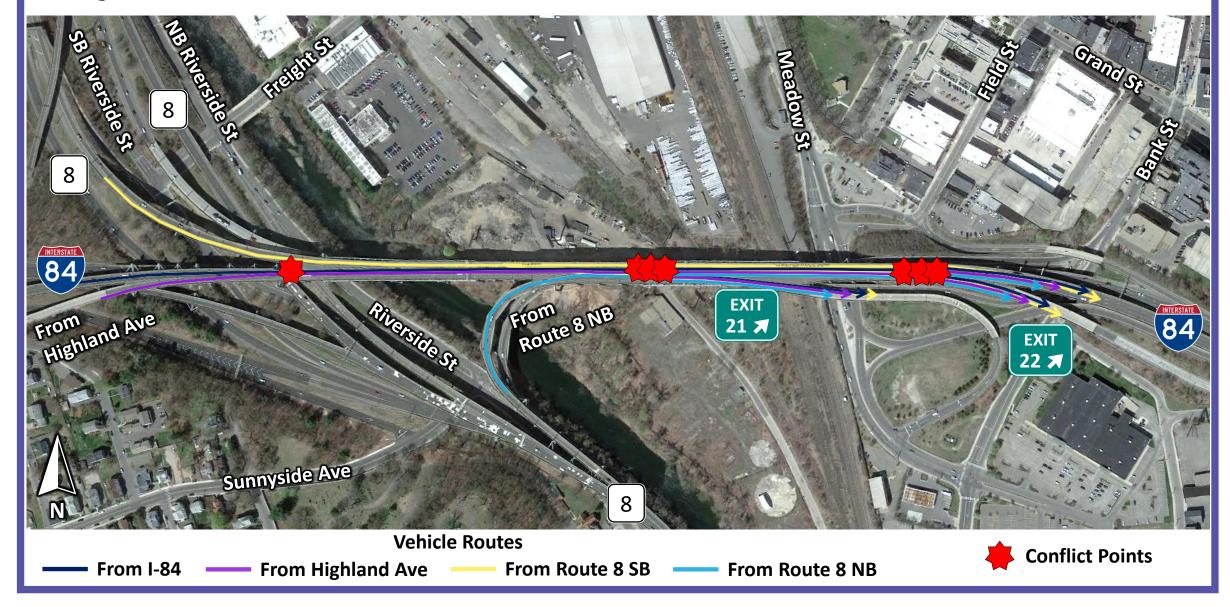




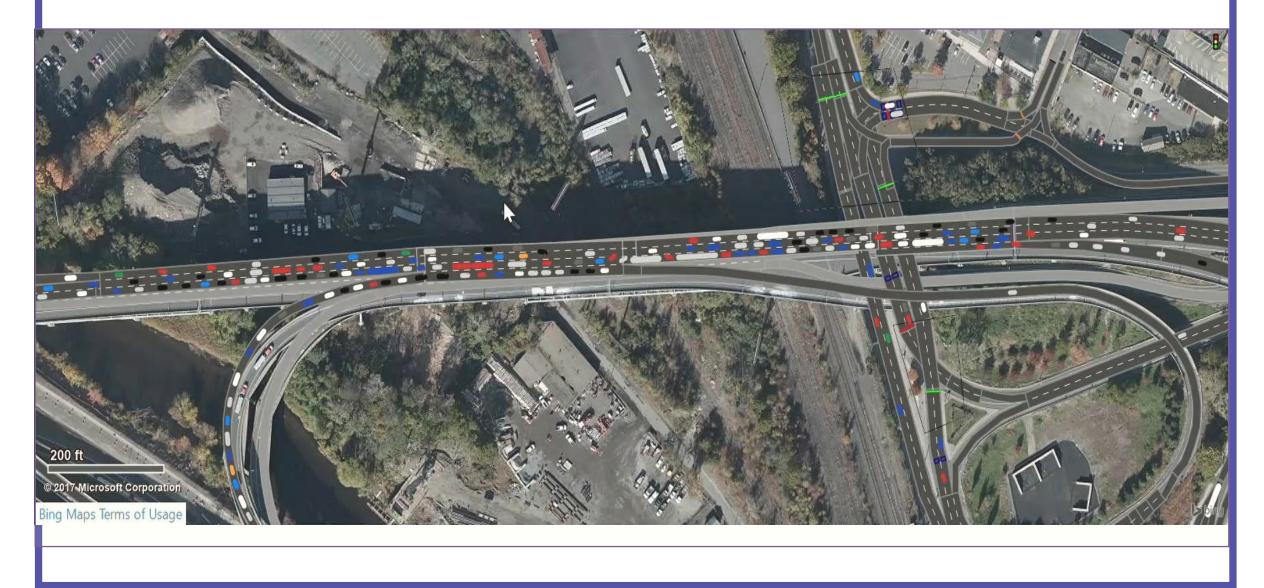
Removal of the Exit 21 Off-Ramp on Interstate 84 EB in Waterbury:

Project Need

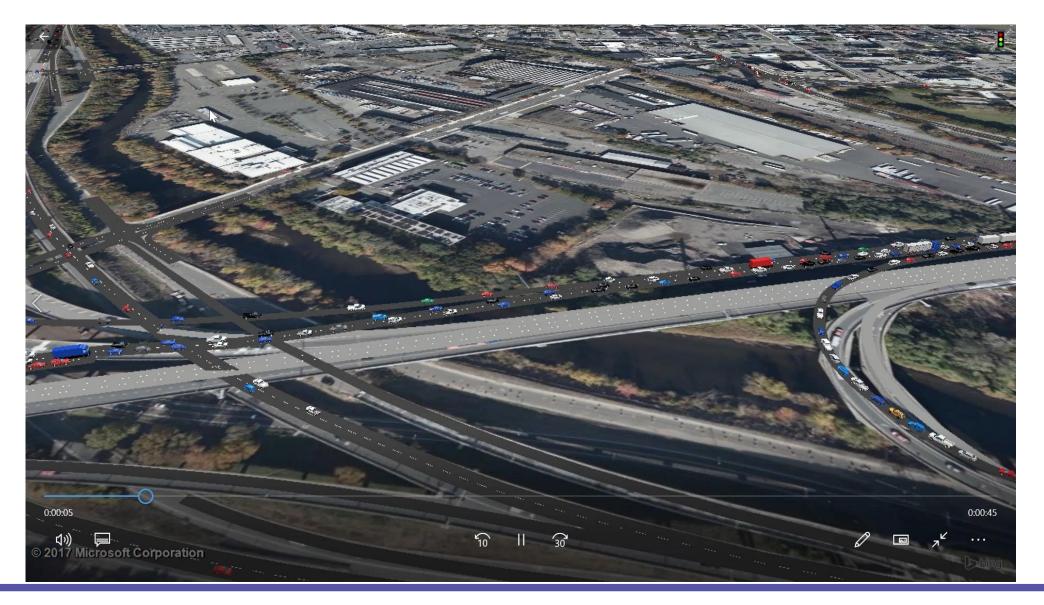
Project Need: Current Issues



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

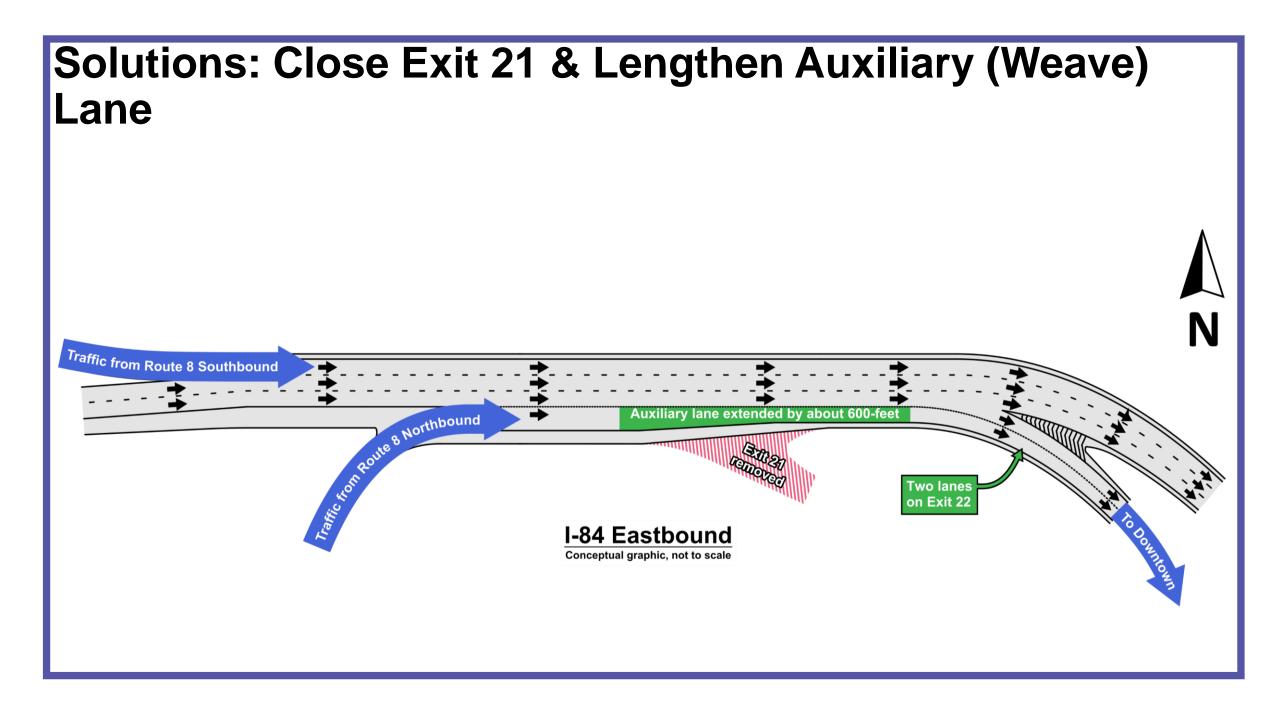
Solutions: Project Purpose & Components

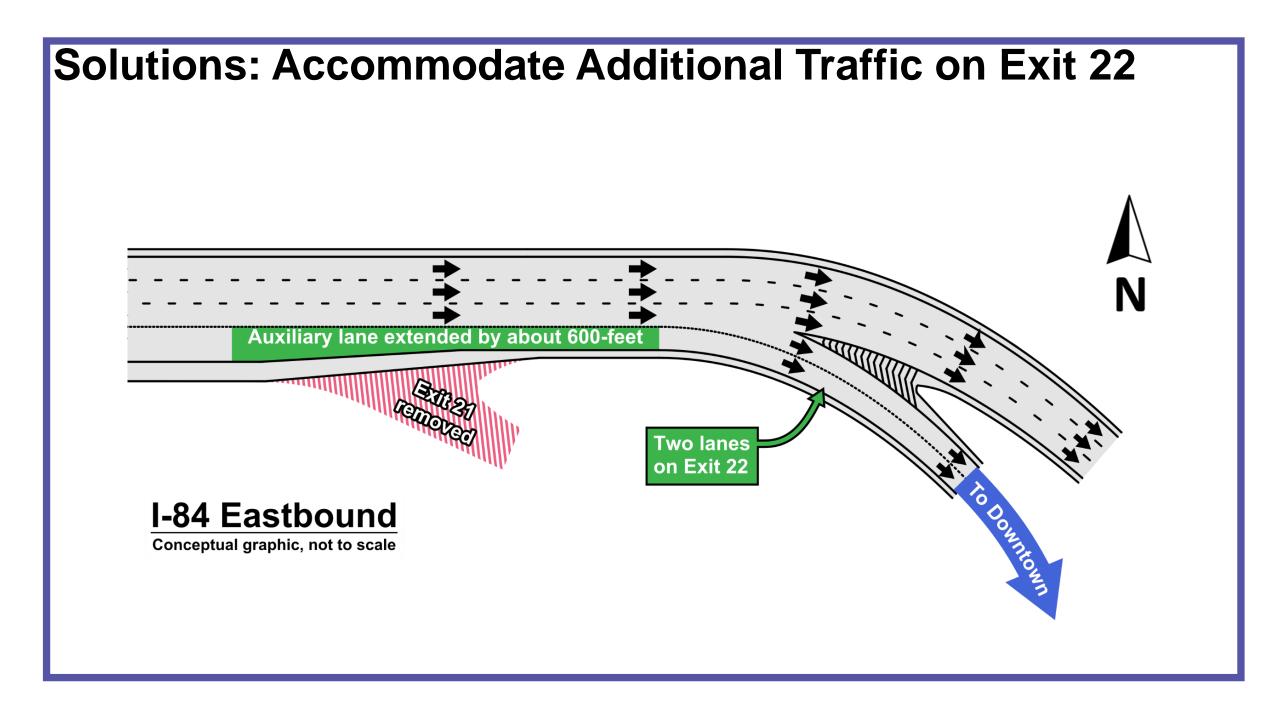
Project Purpose

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)







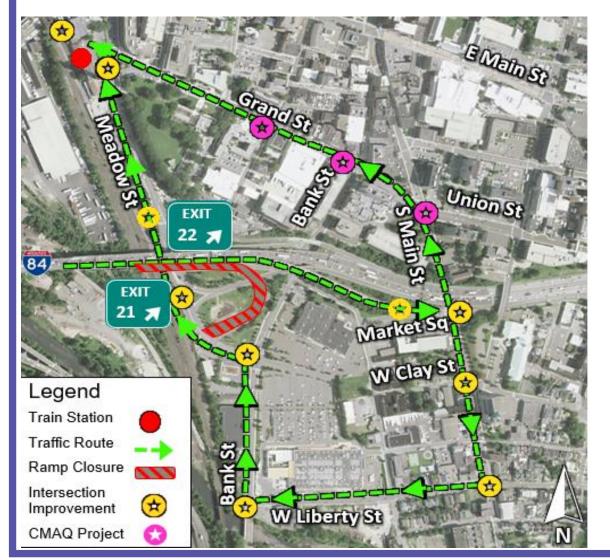
2031: Conditions with Exit 21 Closed (Build)





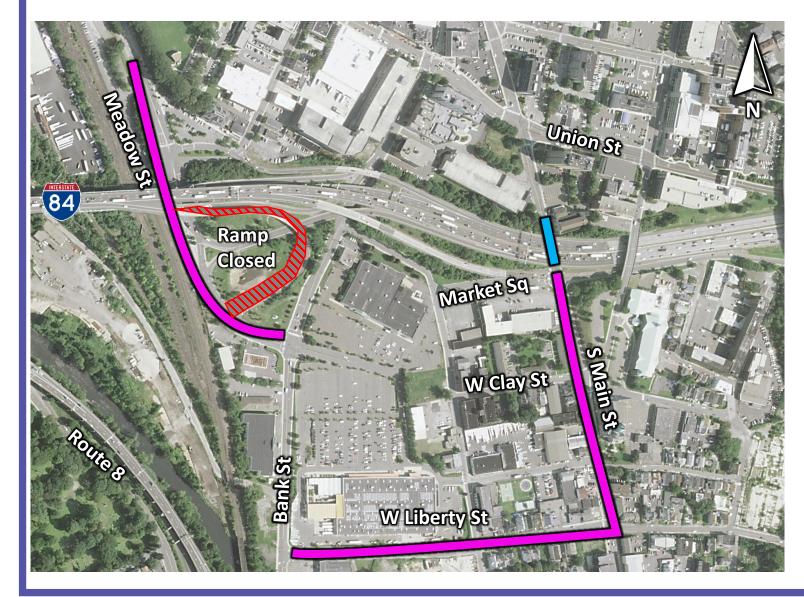


Project Solutions: Improvements to Local Roadway Network to Accommodate Additional Traffic



- 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

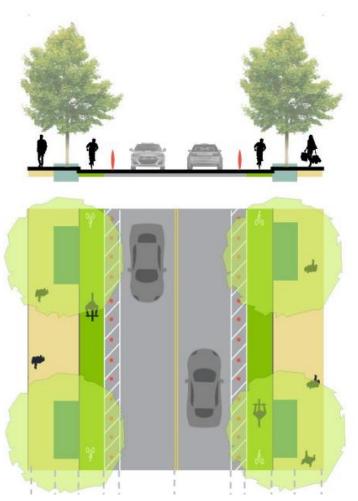
- Closing Exit 21 Off-ramp results in safety benefits to drivers
- Increased safety & potential 9-10% reduction in crashes in vicinity of Exit 22
- Improved traffic operations on highway, potentially improving air quality

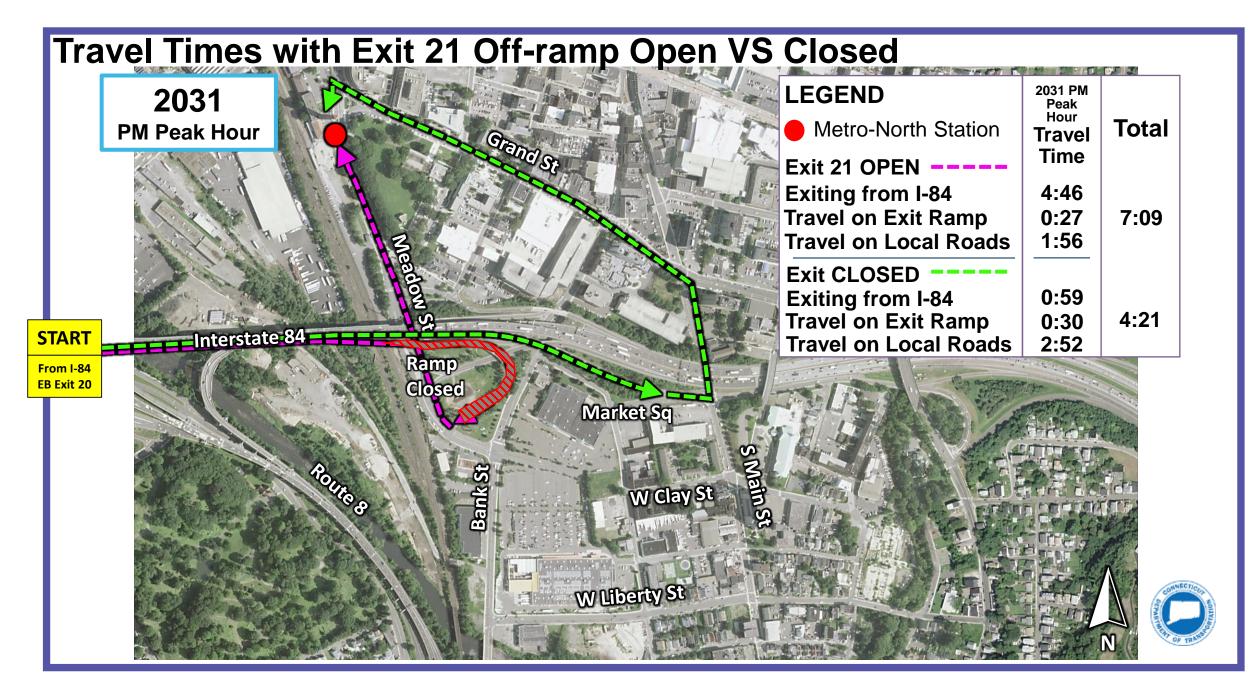


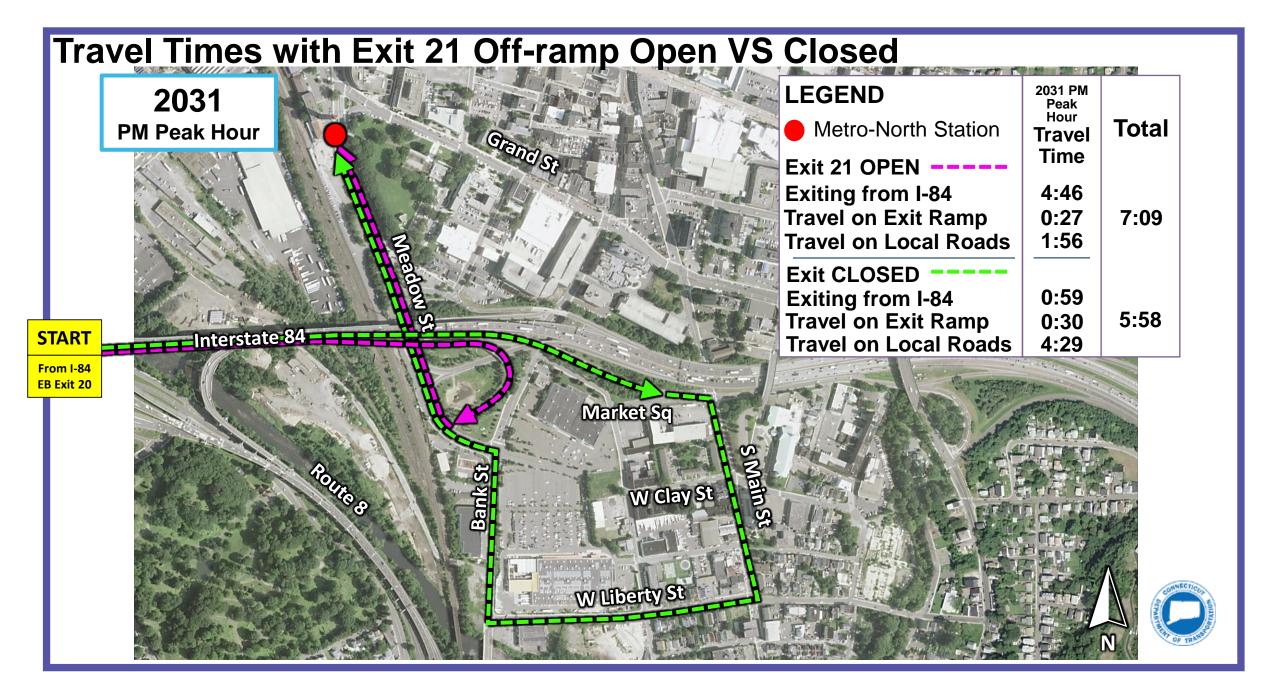


Summary of Expected Benefits to Local Roadway Network

- 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

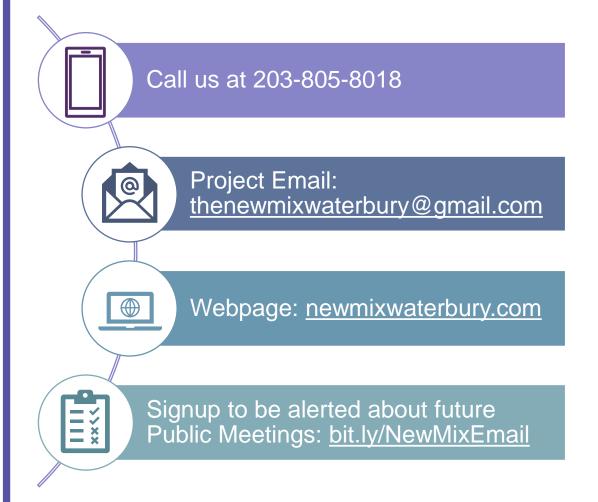
Topics: Overall Project Update, Urban Design Discussion & Feedback, Overview of CEPA Public Comments Received, Next Steps, Q&A



Question & Answer Session

State Project # 151-340

Share your feedback, input and ask questions:











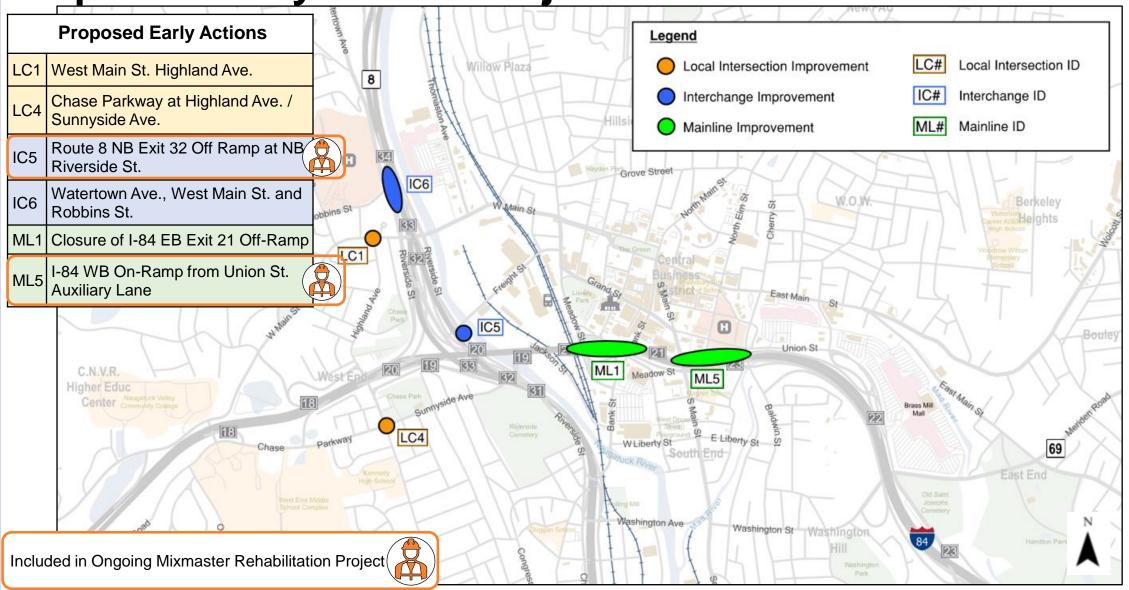
Thank you.



EXTRA SLIDES



Proposed Early Action Projects



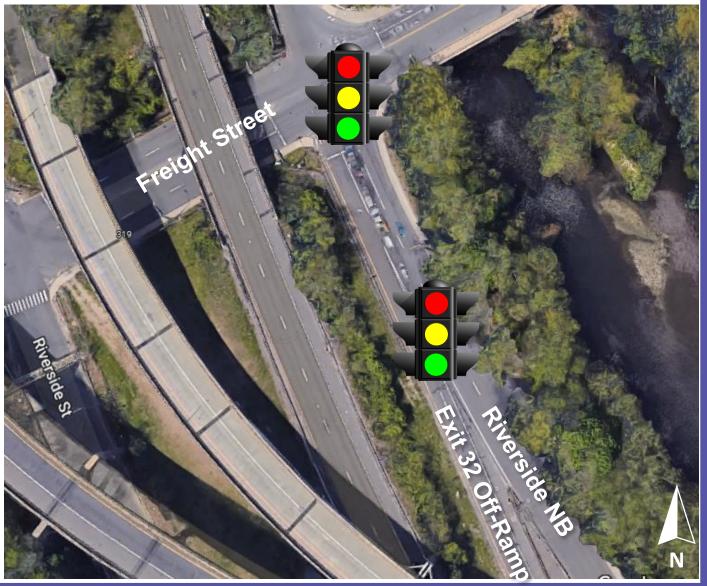
Early Action Project Example – Local Road

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

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

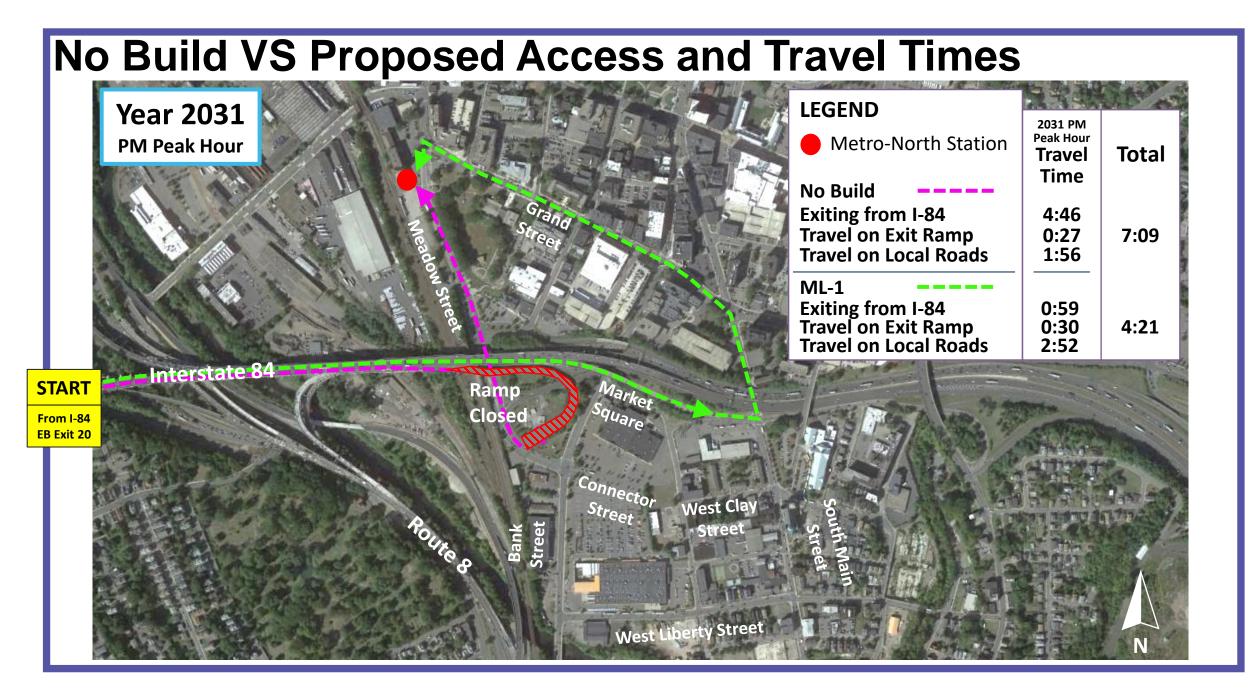
Intended Outcomes

- •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)



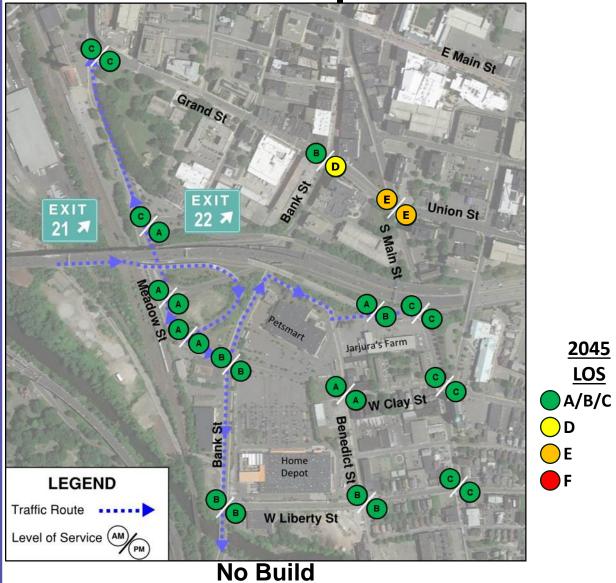
Proposed Early Actions: Exit 21

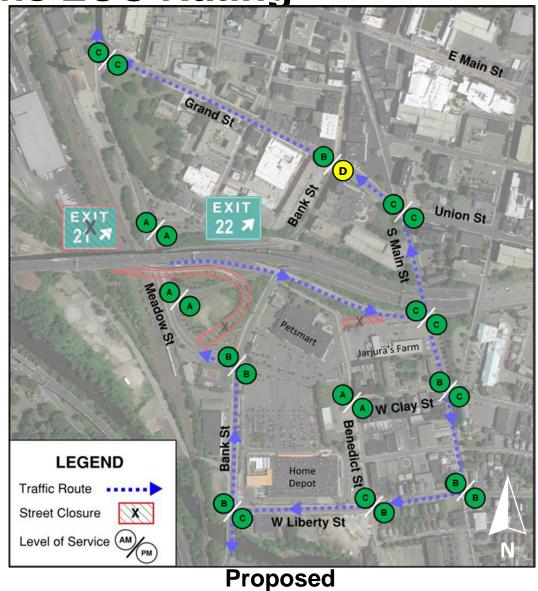




No-Build VS Proposed Conditions LOS Rating

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





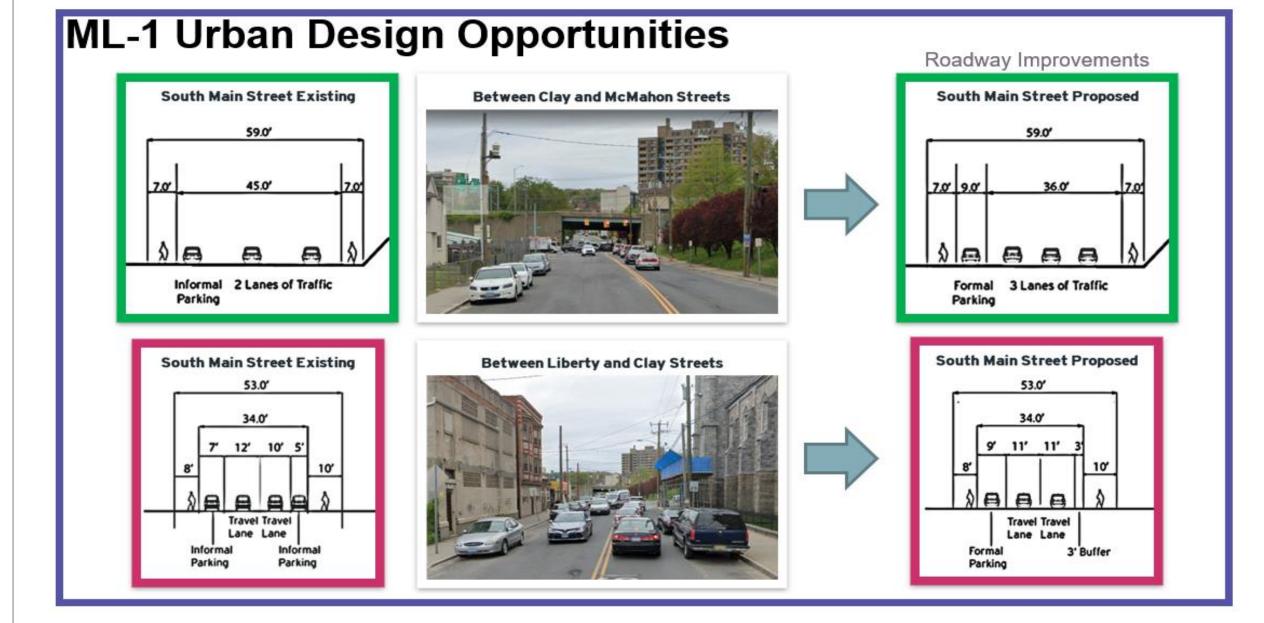
Solutions: Urban Design Opportunities



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)		
 Allow for connections to the Naugatuck River and Greenway; Enhance mobility equity and safety for bicyclists and pedestrians; Integrate the Project with ongoing City projects; 	 Improve system performance; Reduce congestion; Reduce crash rates; 	
 Improve access to Downtown and key destinations; Strengthen surrounding neighborhoods as gateways to the City's Central Business District (CBD); 	 Maintain critical system linkages in Connecticut and the Northeast; Facilitate connectivity with Waterbury through the local road network including multimodal travel; 	

- 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;

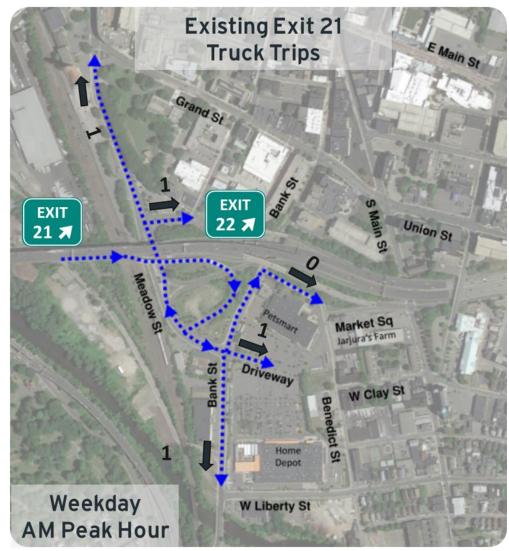
May be further refined to incorporate issues and data identified during stakeholder and public involvement processes including coordination with project partners and the public.

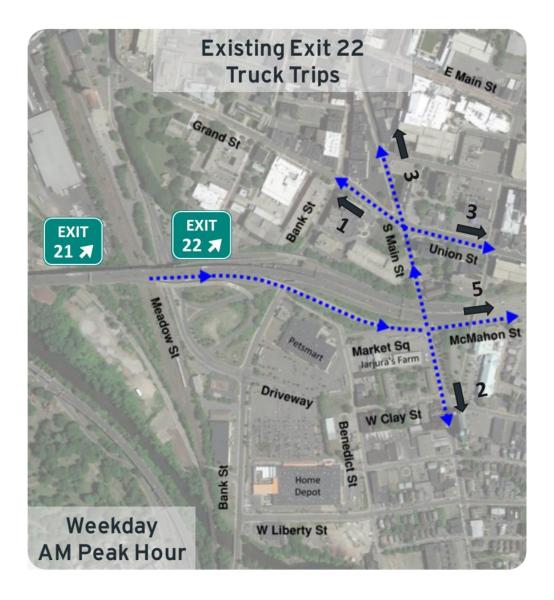


Large Truck Data

- 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

