I-84 Hartford Project Public Advisory Committee Meeting #17

March 27, 2018



New PAC Members

- Tony Cherolis Center for Latino Progress
- John Walsh alternate to Aetna representative Mike Marshall
- Julio Concepción, MetroHartford Alliance replacing Oz Griebel
- Mike Kolonauski, Amtrak replacing Earl Watson
- Chris Hansen, FHWA replacing Eloise Powell



Meeting Agenda

- 1. Multimodal station planning (25 minutes)
- 2. Local road network (15 minutes)
- 3. CT*fastrak* alignment (15 minutes)
- 4. Environmental documentation (15 minutes)
- 5. Next steps (5 minutes)



Today's Objectives

- Recommend multimodal station concept
- Discuss on-going local road planning work
- Share latest thinking on CT fastrak
- Highlight progress on environmental documentation
 - Include Section 106/4(f) processes



Multimodal Station Planning



Where We Left Off (November 2017 Meeting)

- Reviewed five concepts
- Discussed multimodal functionality
- Reviewed site topography
- Defined evaluation criteria





Considerations

Urban design

Visibility

TODOpen spaceNeighborhood connectivity

Mobility and safety for all users

- Traffic / access management
- Bicycle / pedestrian
 Transit

Multimodal functionality

Engineering

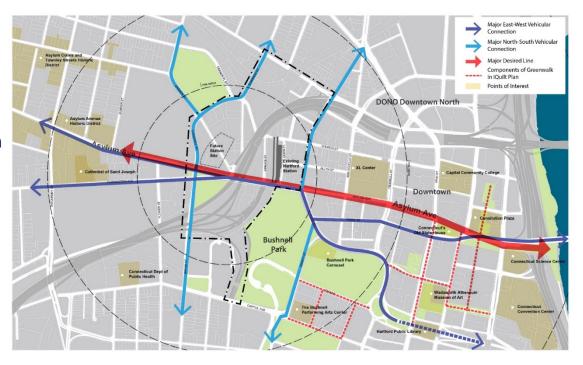
Staging / phasing
Costs
Operations / maintenance



Guiding Principles of the Capital Gateway Concept Plan

1. Improve connectivity

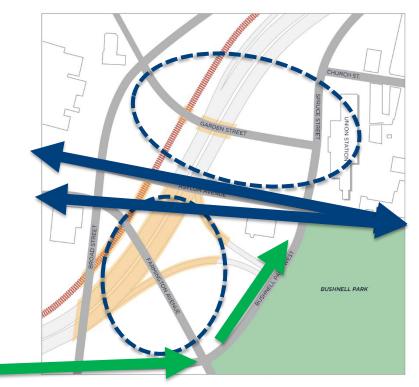
- Establish an urban grid
- Strengthen the east-west pedestrian and bike connection
- 2. Create a district and strengthen sense of place
 - Create clear economic anchors
 - Create a strong open space strategy
- 3. Set the stage for economic development
 - Optimize development potential





Multimodal Station Overview

- Study area
- Transit integration
- Five representative concepts
- Considerations



First Representative Concept (Concept J)

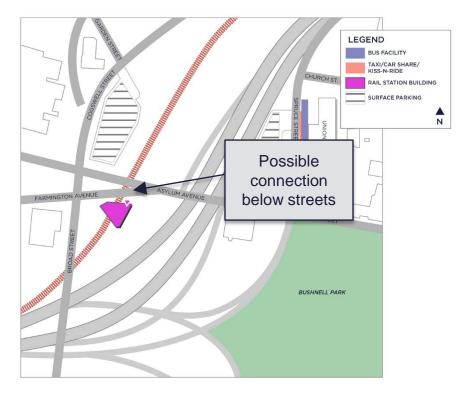
- Rail station anchors Asylum Ave / Farmington Ave intersection
- Defines Farmington Ave extension by bus station & parking
- Lack of strong open space linkage
- Access management / staging concerns





First Representative Concept (Concept J) - Phase 1

- Not all rail station can be built
- Parking across Farmington Ave and Asylum Ave
- Farmington Ave extension constructed after Lowered Highway Alternative
- In-place 4 6 years





Second Representative Concept (Concept K)

- Rail station anchors Asylum Ave / Farmington Ave intersection
- Synergy between bus and rail components
- Broad St defined by bus station
- Cost / staging concerns

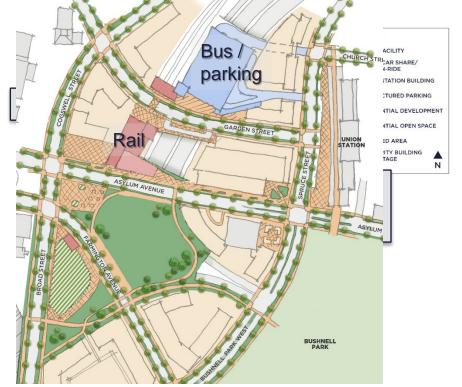
Bus facility / parking structure





Third Representative Concept (Concept E1)

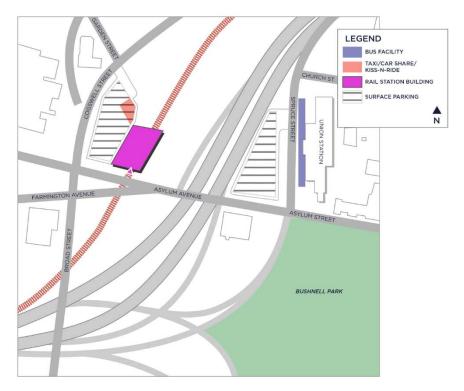
- Rail station anchors Asylum Ave edge
- Strong rail / bus connection
- New "Station Green" open space
- Significant capping / cost





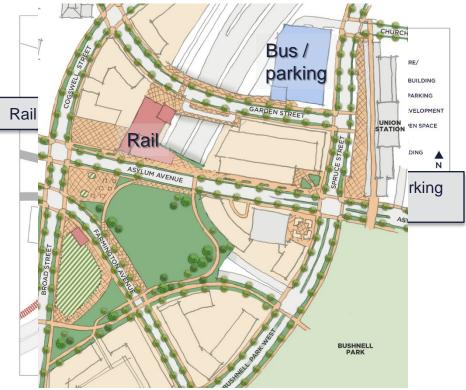
Third Representative Concept (Concept E1) - Phase 1

- Rail station operational
- Bus services remain at Union Station
- Independent functionality required
- Surface parking



Fourth Representative Concept (Concept E2)

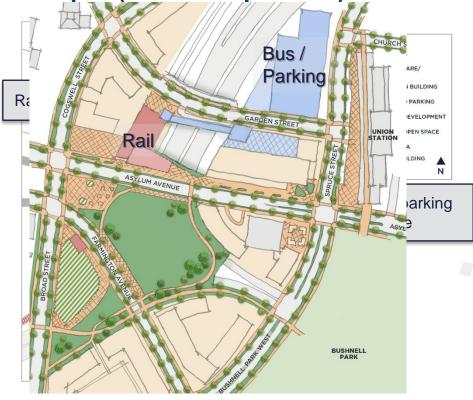
- Rail station anchors Asylum Ave edge
- Bus station separate from rail
- New "Station Green" open space
- Lower cost due to less vertical construction on cap and less capping





Fifth Representative Concept (Concept E3)

- Rail station anchors Asylum Ave edge
- New "Station Green" open space
- Comprise on multimodal functionality / capping



Fifth Representative Concept (Concept E3)

- Rail station anchors Asylum Ave edge
- New "Station Green" open space
- Compromise on multimodal functionality / capping

Project Team recommends this concept





Conclusion and Next Step

Conclusion

- 1. E3 recommended best satisfies criteria
 - Advantages of northern concepts
 - Staging, traffic / access, potential development / open space
 - Balance cost / multimodal functionality

Next step

1. Advance to 15% architectural design

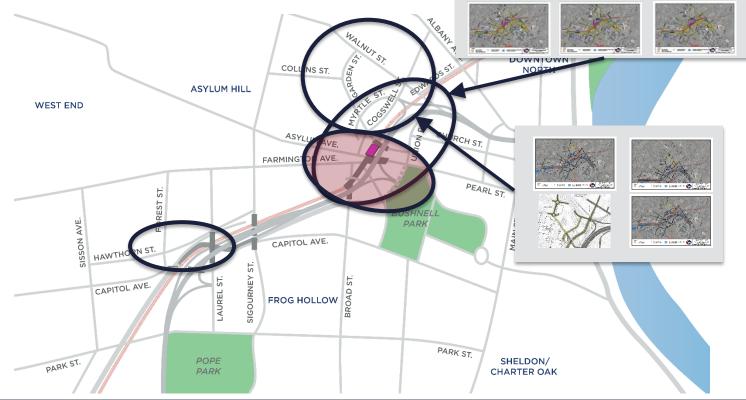


84 Local Road Network





Recent Focus Areas

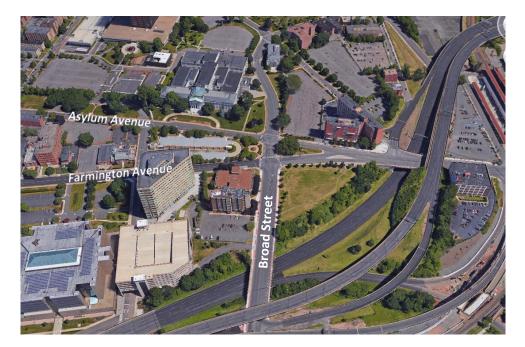




The Trident

Opportunities:

- Reimagine street character in vicinity of Trident (Farmington Ave, Broad St, and Asylum Ave)
- Improve mobility between Downtown and west neighborhoods
- Enhance pedestrian and bicycle mobility



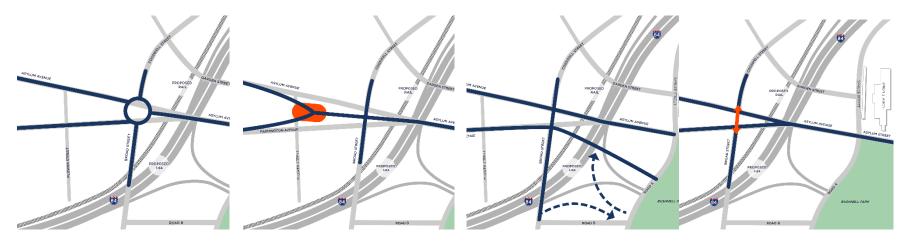


Many Concepts Evaluated





Options Presented at November PAC Meeting



Roundabout

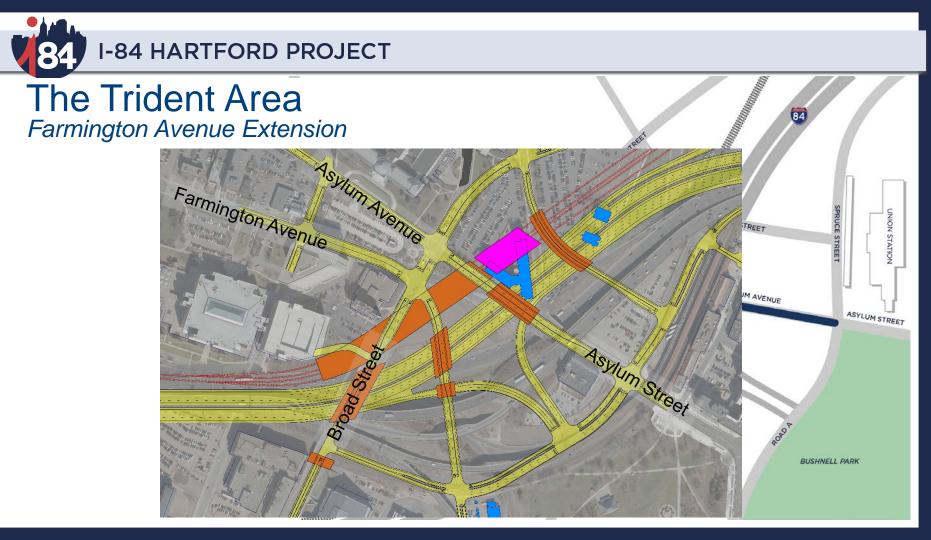
Western Shift

Farmington Ave Extension

Discontinuous Broad St

The Trident Area Discontinuous Broad St







Conclusions and Next Step

Conclusions

- 1. Adopt Farmington Ave extension
- 2. Continued evaluation of both remaining concepts

Next step

1. Level 3 Screening

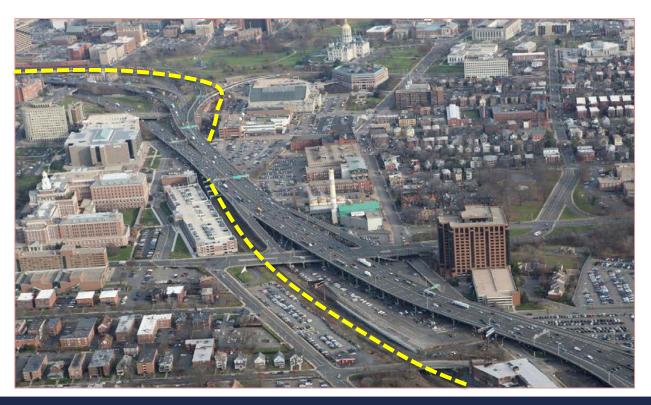


CT*fastrak* Alignment





Why Relocate CT*fastrak*?





Where We Left Off (February 2016 Meeting)

Sigourney St to Broad St tunnel





Where We Left Off (February 2016 Meeting)

Sigourney St to Broad St tunnel





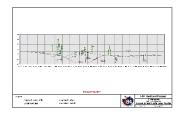
Sigourney St to Broad St Tunnel

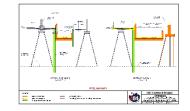
- Significant challenges / fatal flaws
 - Cost
 - Construction duration





Many Alternatives Developed



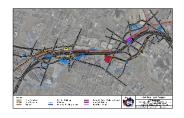
























Considerations

- Accessibility to central business district and Downtown
- Service goals permanent and temporary
- Building / property impacts
- Cost



Latest Thinking

Cross beneath I-84 and rail near Laurel St





Crossing Near Laurel St

retained Urel Stree ourney Guideway spur to existing station Capitol Avenue Potential new Sigourney St south station Crossing beneath highway

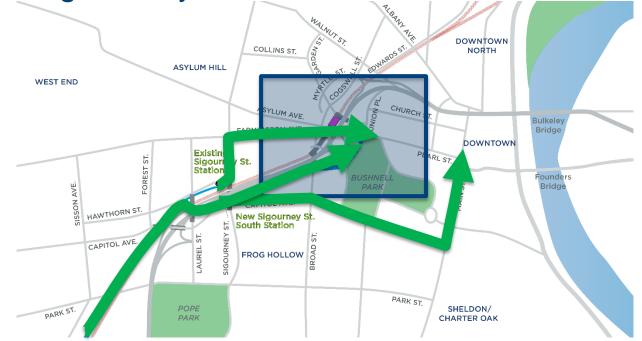
Existing station could be

CT*fastrak* Station ST ASYLUM AVE. SIGOURNEY FARMINGTON AVE. **Existing** Sigourney St. **Station** ST. K BROAD CAPITOL AVE. New Sigourney St. South Station



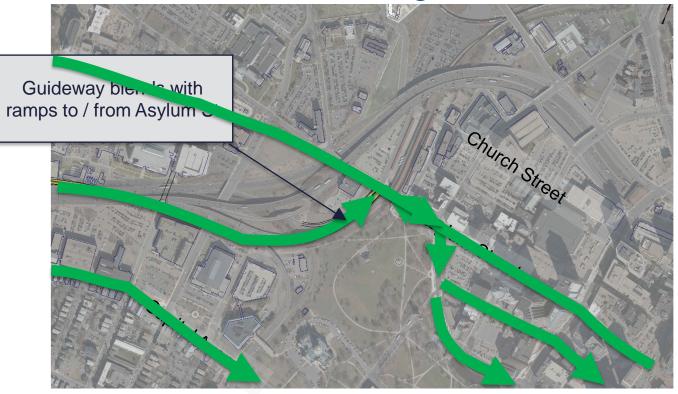
Latest Thinking

Eastern guideway terminus

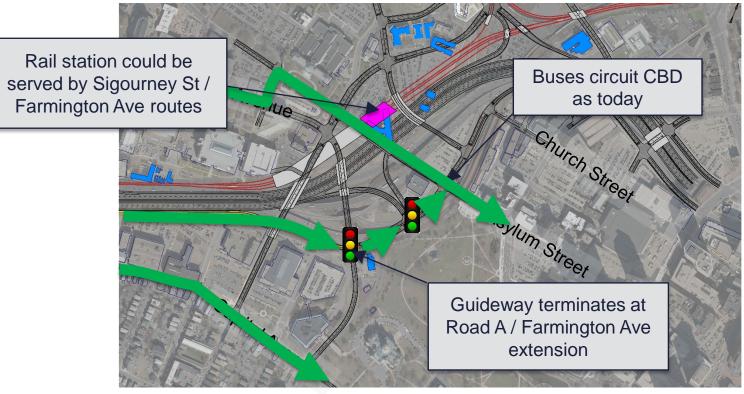




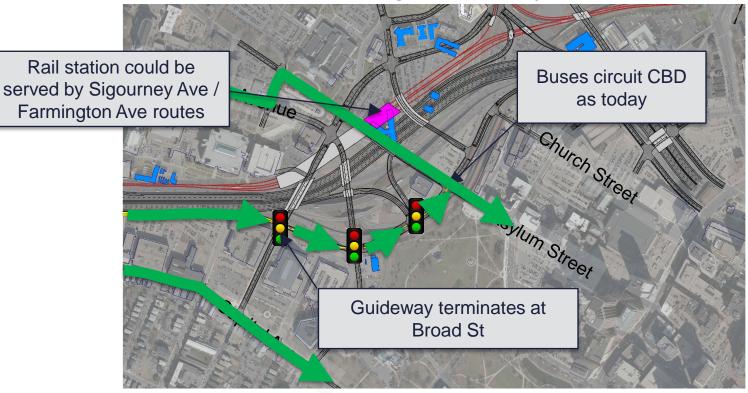
Eastern Terminus – Existing



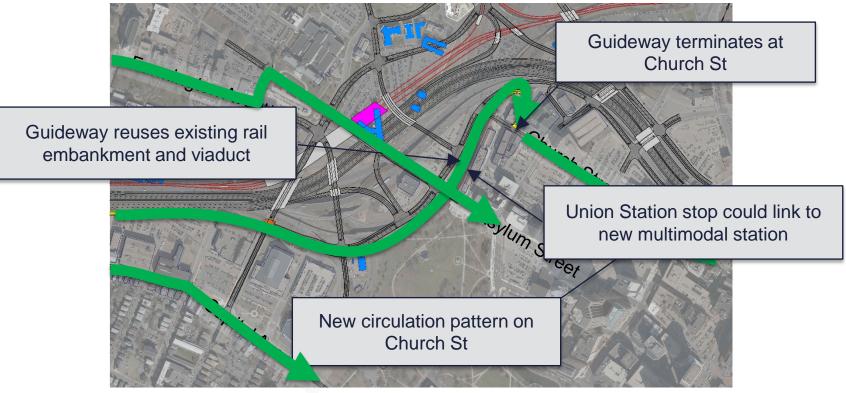
Eastern Terminus – Option 1 (Under Broad St)



Eastern Terminus – Option 2 (To Broad St)



Eastern Terminus – Option 3 (Church St)





Conclusion and Next Steps

Conclusion

1. Utilize new crossing location near Laurel St

- 1. Further analyze and refine Sigourney St station / eastern terminus
- 2. Document preferred alignment



Environmental Documentation



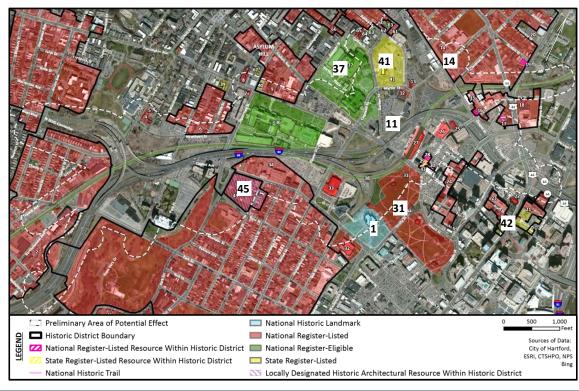


Technical Report Updates

- Cultural Resources (March 2018)
- Air Quality (January 2018)
- Noise and Vibration (April 2018)
- Land Use and Socioeconomic Impacts (April 2018)



52 Known Identified Architectural Resources



Resource Types <u>NHL</u> 1: Connecticut State Capitol

NR-Listed

11: Apartment at 49-51 Spring Street14: Clay Hill Historic District31: Bushnell Park

NR-Eligible 37: The Hartford Insurance Company

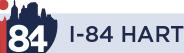
SR-Listed

41: Connecticut Mutual Life Insurance Building

42: Main Street Historic District No. 1

Locally Designated

45: George Keller Historic District



16 Recommended National Register – Eligible



- Determined National Register-Eligible by SHPO in Accordance with Section 106 for Project
- Park River Conduit Non-Contributing Resource

Sources of Data: City of Hartford, ESRI, CTSHPO

Key:

10: 70 Farmington Avenue 36A: Atrium Building- Aetna Life Insurance Company, 155 Farmington Avenue 46: Capitol Records - 133 Laurel Street 47: 39-45 Spring Street 48: 87-101 Spring Street 49: Park River Conduit 53: 69-73 Myrtle Street 54: 79 Myrtle Street 55: 165-171 Walnut Street 56: 48-60 Union Place 57: 64-84 Union Place 58: Artspace, 545-555 Asylum Avenue 59: 28-30 Laurel Street 66A: 132 Collins Street 66B: 156-160 Collins Street 69: Gallaudet Square



Architectural Resources Affected by Reasonable Range of Alternatives

Impacted Resource	Direct Impact	Indirect Impact
Parkville Industrial Historic District, 760 Capitol Ave	Alternative W3-3	
Frog Hollow Historic District, 470 Capitol Avenue	Alternatives E3(S), E5(S), E6(S)	
49-51 Spring Street	Alternatives E3(S), E5(S), E6(S)	
NHHS Rail Line Historic District	Alternatives W3-3, E3(S), E5(S), E6(S)	
Connecticut Mutual Life Insurance Building	Alternative E6(S)	
Capitol Records, 133 Laurel Street	Alternative W3-3	
39-45 Spring Street	Alternatives E3(S), E5(S), E6(S)	
87-101 Spring Street	Alternatives E3(S), E5(S), E6(S)	
69-73 Myrtle Street	Alternative E6(S)	Alternatives E3(S), E5(S), E6(S)
Hartford Union Station		Alternatives E3(S), E5(S), E6(S)
The Hartford Insurance Company		Alternatives E3(S), E5(S), E6(S)
79 Myrtle Street		Alternatives E3(S), E5(S), E6(S)

For the most part the reasonable range of alternatives have the same direct and indirect impacts to historic architectural resources except that Alternative E6(S) has additional direct impacts to two resources (Connecticut Mutual Life Insurance Building and 69-73 Myrtle Street)



Phase 1B Archaeological Testing Proposed

- 54 properties to be tested
- Acquiring necessary permits and coordinating with property owners
- Spring 2018 start
- Summer 2018 completion

Type of Phase IB Testing	Acres	Type of Phase IB Testing	Acres
GeoProbe	7.89	STP	6.55
GeoProbe/Trench	1.96	STP/EU	6.69
STP/EU/Trenching	7.08	STP/Trenching	0.33
Trenching	21.12	Trenching/EU	10.52



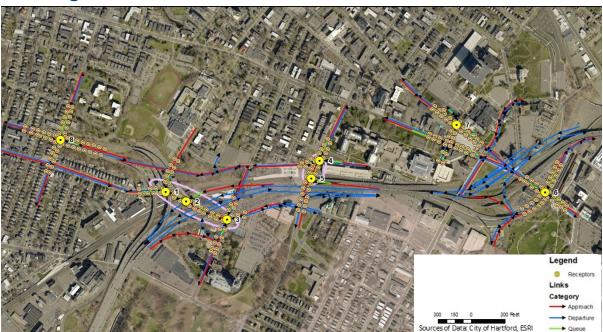
Phase 1B Testing Locations





Air Quality Technical Report CO Microscale Analysis for Eight Worst-Case Intersections

- Predicted CO levels well below NAAQS
- Localized CO and PM impacts are less than significant





Air Quality Technical Report

- Mobile Source Air Toxics (MSATs) analysis for corridor (9)
 - Compared to existing conditions: reductions of 70-99%
 - Compared to 2040 No Build conditions: reductions of 9-18%
 - Reasons: improved LOS and reduced congestion and VMT, cleaner burning vehicles
- Temporary, localized construction Impacts
 - No detailed modeling analysis warranted (no local site would experience more than five years of construction activities)



Noise and Vibration Technical Report

- Multimodal modeling: highway, bus, rail
- 17 baseline noise measurements
 - "Validate" future prediction models
- Alternatives evaluated
 - Existing, 2040 Build and No-build





Noise and Vibration Technical Report

- Lowered Alternative provides "shielding effects" from edge of roadway
- I-84 highway noise masks CT*fastrak* and commuter / freight rail noise
- 10 noise barriers evaluated according to CTDOT "feasible & reasonable" criteria.
 - "W3A" barrier westbound side of I-84 south of Park St recommended



Noise and Vibration Technical Report

- Vibration from diesel locomotives not predicted to exceed the FTA "annoyance" criteria at residences or sensitive receptors
- Vibration from diesel locomotives predicted to be well below the threshold of structural damage
- No vibration impacts from highway sources
 - Damped suspension of rubber-tired vehicles vs. steel-wheeled rail vehicles



Land Use and Socioeconomic Technical Report

Торіс	Contents	
Affected Environment	- Existing conditions: land use, demographic, socioeconomic, EJ populations	
Consequences	 Effects: Land use, activity patterns, housing/employment, neighborhood stability Consistency with State and Regional Plans 	
Mitigation	- Displacement/Relocation Plan (in progress)	djood by the 164 vialuet structure and related cooking elements. The study over a define@ in 2.500 feet in all elections from the project area limbs.

- Draft EIS out for public review early 2019
- Public Hearing spring 2019
 Final EIS / Record of Decision summer 2020

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			H٤	34 Hartford Project		
	ection Reporting		pment/Analysis			
			NEPA Documentatio	n / Record of Decision		
					Final Design	
					Con	struction Phase







- 1. Public forums late-spring / early-summer
 - Multimodal station
 - I-84 / I-91 Interchange Study
- 2. Advance station conceptual design
- 3. Identify CT*fastrak* alignment / Trident concepts to be evaluated in DEIS (Level 3 Screening)



Thank You!

Thank you for your time. We appreciate your commitment to helping us reach the best possible solution for the State of Connecticut, the Capitol Region, and the City of Hartford.

-Your I-84 Hartford Project Team