

THE I-84 HARTFORD PROJECT

Open Planning Studio PAC Meeting

April 27, 2015

INTERSTATE 84

THE I-84 HARTFORD PROJECT







U.S. Department of Transportation

Federal Highway Administration







Agenda

1. Introduction

- What is the Open Planning Studio?
- Defining the Preliminary Alternatives
- How we determined the alignment options?
- What we will do this week

2. Alternative Interchange Options

Quick preview of many options

3. Enhanced Visualizations

- A few examples of context sensitive design options
- Images of potential street views



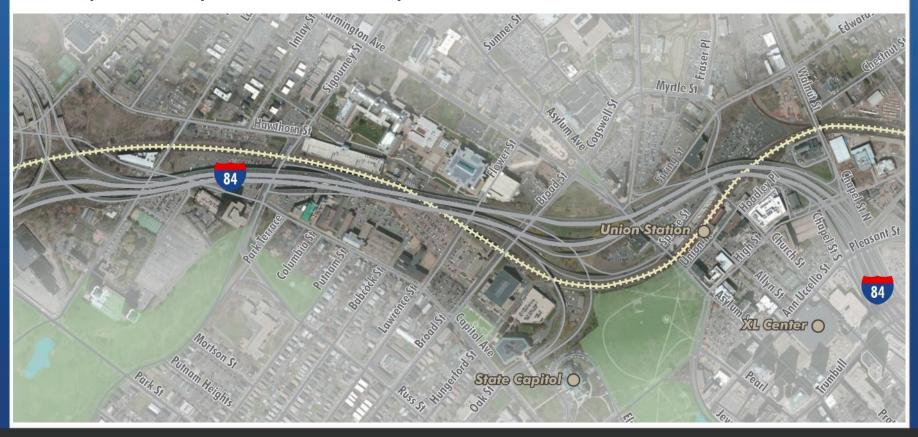
The I-84 Open Planning Studio

- Make the development of alternatives transparent and inclusive
- Build support as the Project progresses for the ultimate identification of a preferred alternative
- Fully identify and respond to concerns from a broad range of stakeholders and attempt to address those concerns in the alternatives
- Engage community groups that have been historically disenfranchised in the process of selecting transportation alternatives



Defining the I-84 Alternatives

We began with identifying corridor options that addressed the interrelationship between I-84 and the railroad, as first explored by the HUB Study





Defining the I-84 Alternatives

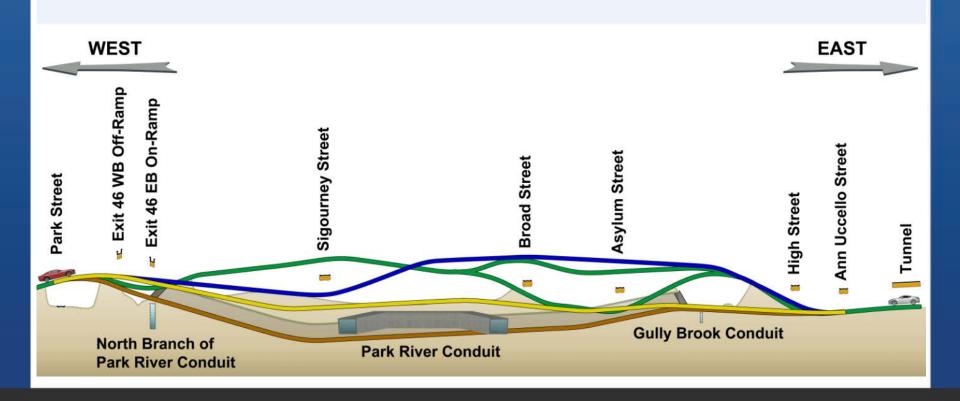
We studied various horizontal and vertical configurations, using the latest highway and railroad design standards and safety criteria

		Alternative							
		Α	В	C	D	E	F1	F2	
Key Characteristics	Future Alignment of Rail Infrastructure				0	750	125/1/1	1,500	Tolonia Stolonia
	Maintenance of Existing Rail Infrastructure	✓							E S
	Reconstruction of Rail Infrastructure		~						hapel
	Rail Relocation South of I-84			✓			1	3901	
	Rail Relocation North of I-84								ST.
	Vertical Alignment of Future I-84						- 15	White	FO
	I-84 remains in place (elevated)	✓	✓	✓		0	Y Y	FZA Signer	
	I-84 rebuilt at or below ground level (open cut)				Summers			a James	
	I-84 rebuilt at least partially in a tunnel			✓				aswo s	Church si
Physical Attributes	Track and Rail Operations					A-n	-	\$ 51	
	Number of tracks	1	2	2	Lis Jum Ave		84 PAllyn Si		
	Gauntlet track for oversize freight trains		√	✓			Union		
	Rail service maintained during construction	✓	~	✓	day be	Farming	on Ave	Spoo	
	Future connection to Griffin Line possible			✓	10 23	· il.	ā /	E C	Asylum Si
	Station Infrastructure						ower		B
	Renovation to current station building	✓	√				_		
	New station building location			✓	The same		13		
	Platform location relative to ground	Above	Above	Above	FIF	To		ALL PROPERTY OF THE PARTY OF TH	Bushnell Park
	Longer platform than existing		✓	✓	THE TIME	- parties		NO.	
						///	1000	14.05	154



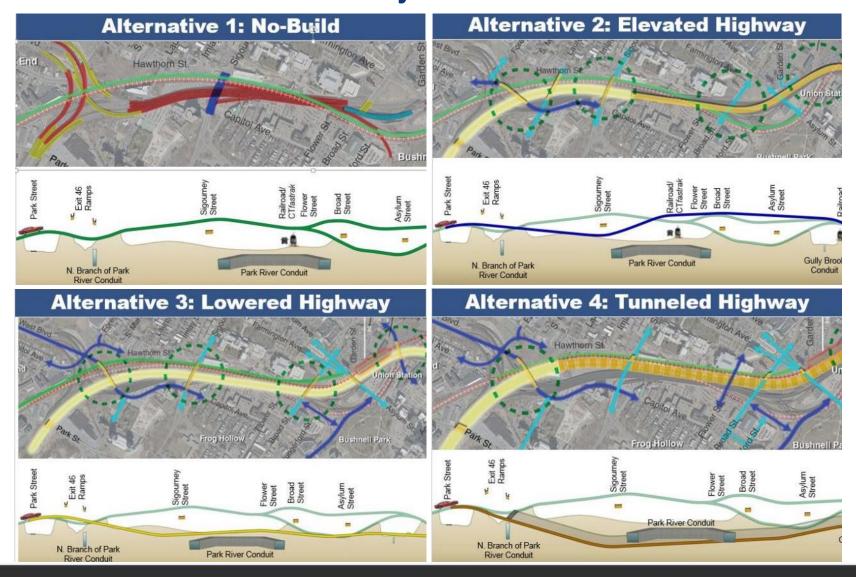
Defining the I-84 Alternatives

We presented these Preliminary Alternatives ("No Build", "Elevated", "Lowered" and "Tunnel") in late January at the Public Scoping Meeting





Preliminary Alternatives





Alternatives 2 and 3



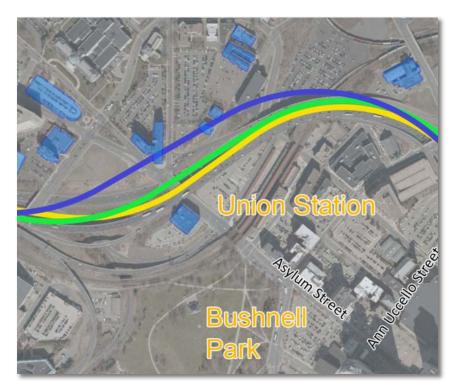


Alternative 4



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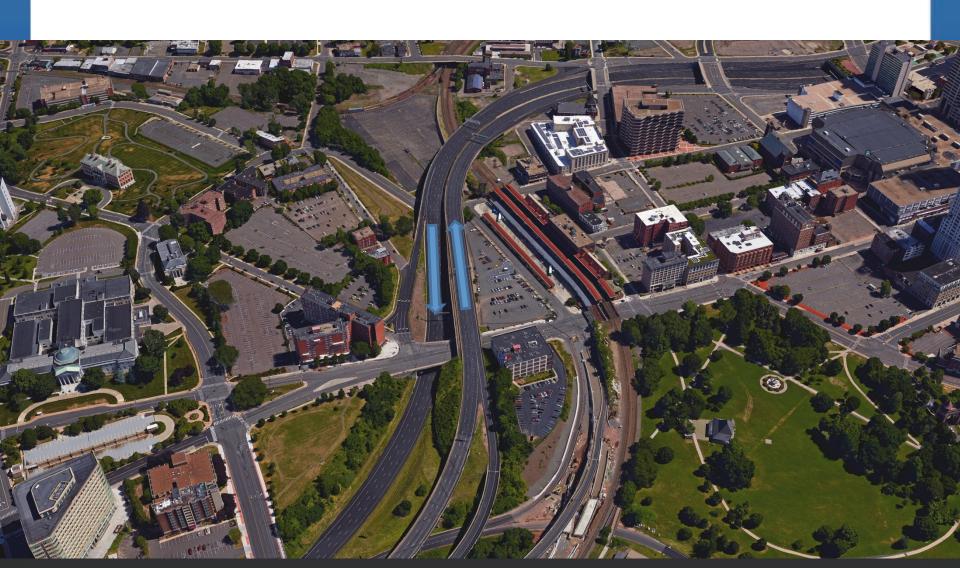
How we determined the alignment options



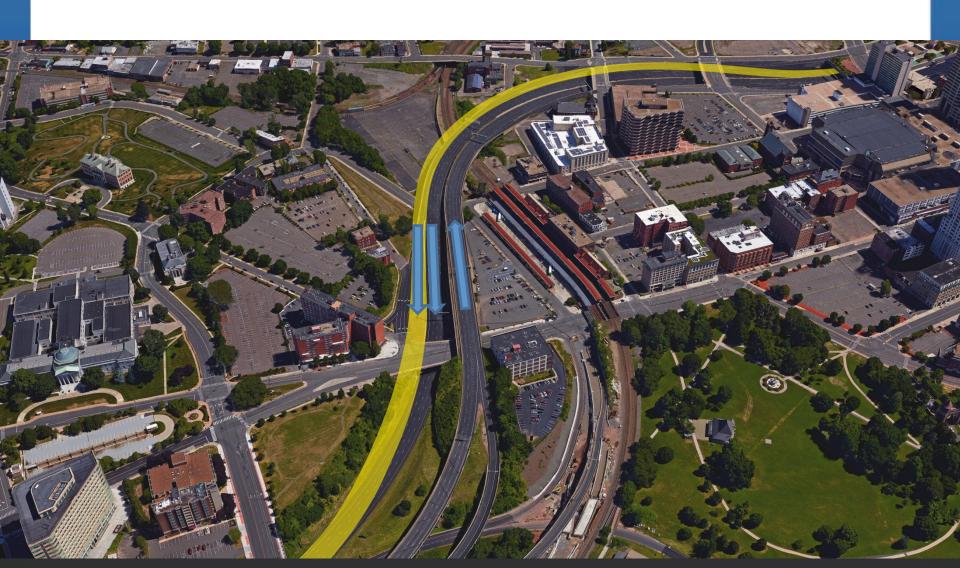
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- Minimum Alignment Shift for Stage Construction
- Minimize Property Impacts

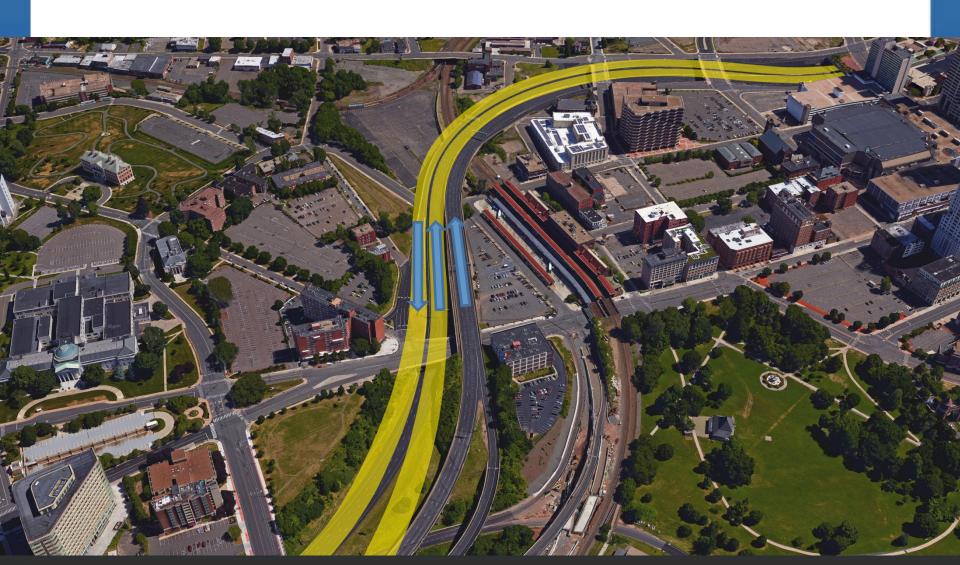








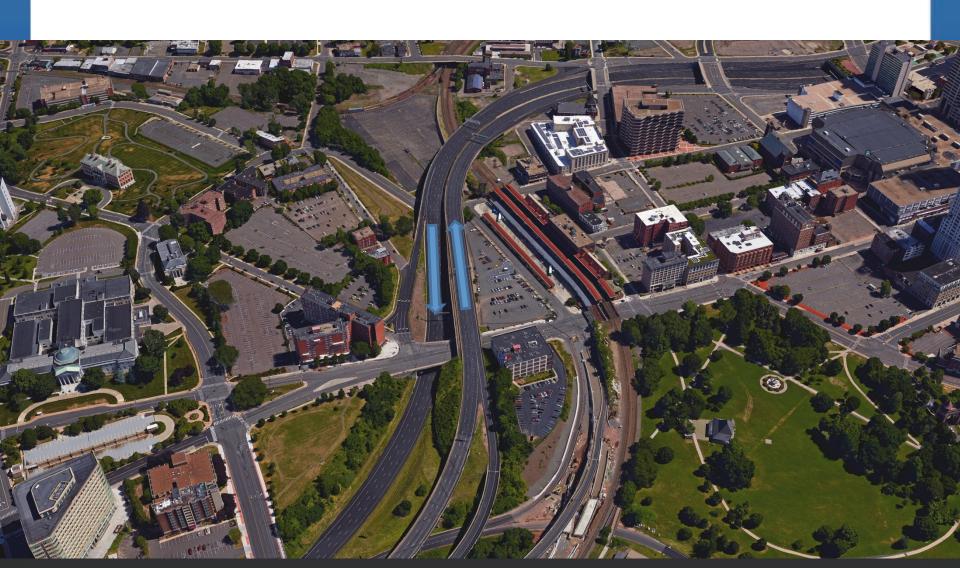




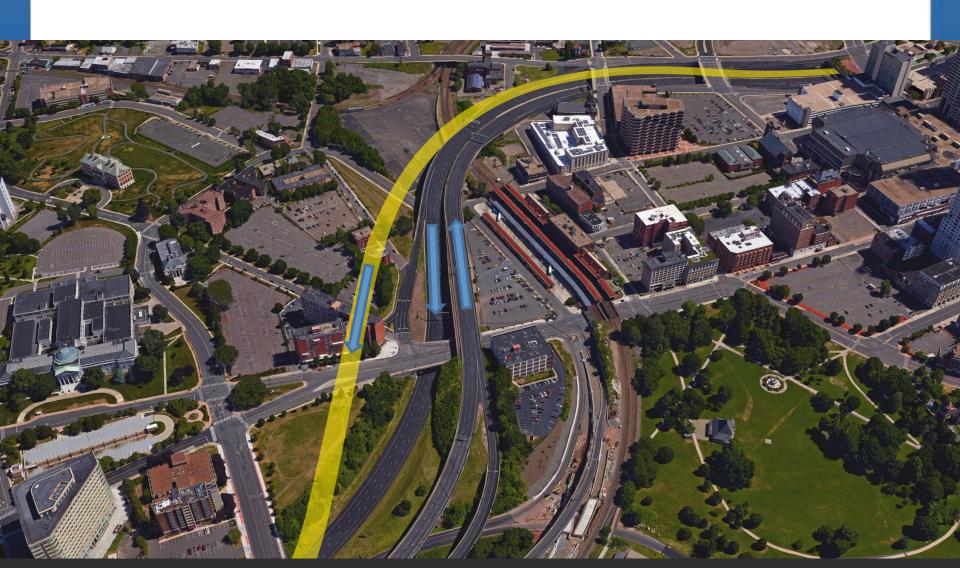
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- Revised Alignment to fix deficient horizontal curve
- Stage Construction Advantages
- Creates better opportunities for interchange development

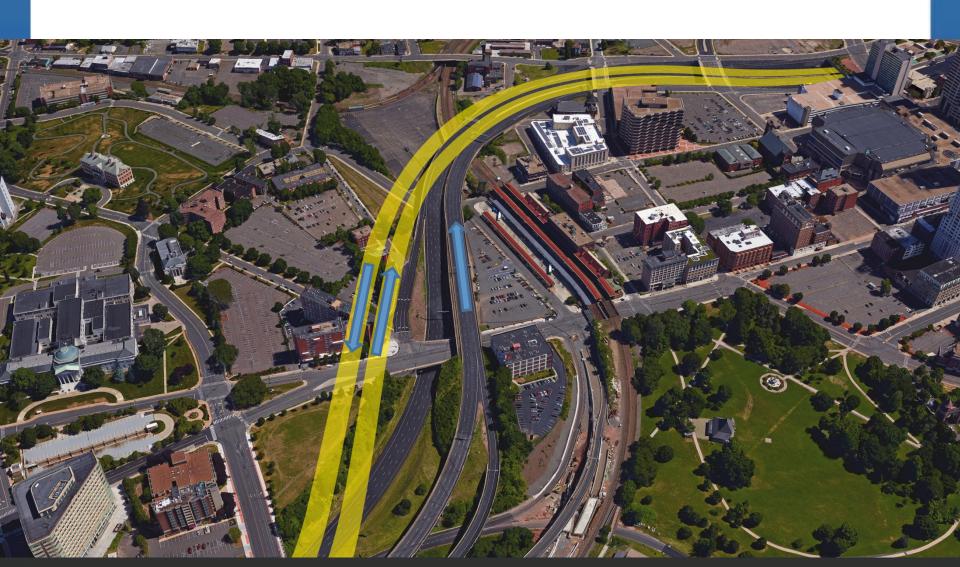








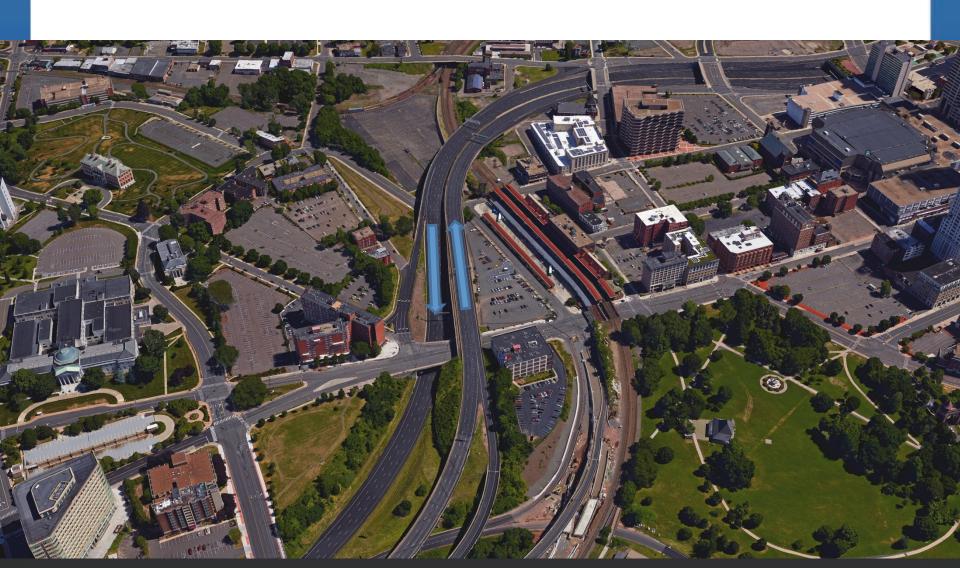




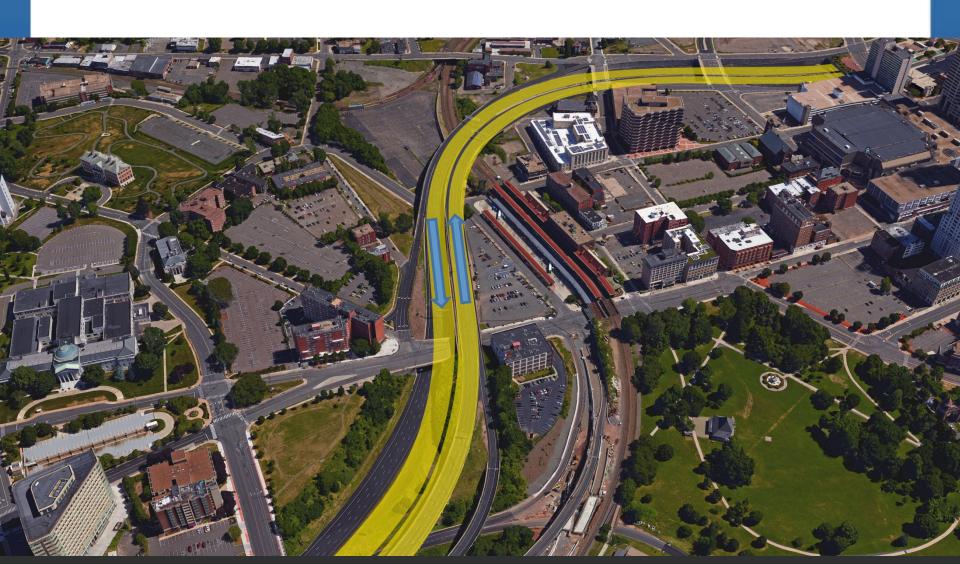
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- Effort to minimize/eliminate property impacts
- No consideration for stage construction











Alternative 4A

- Stage Construction to the north
- Easiest to build = shortest construction duration
- No relocation of the Park River Conduit
- Significant Property Impacts



Alternative 4A





Alternative 4A



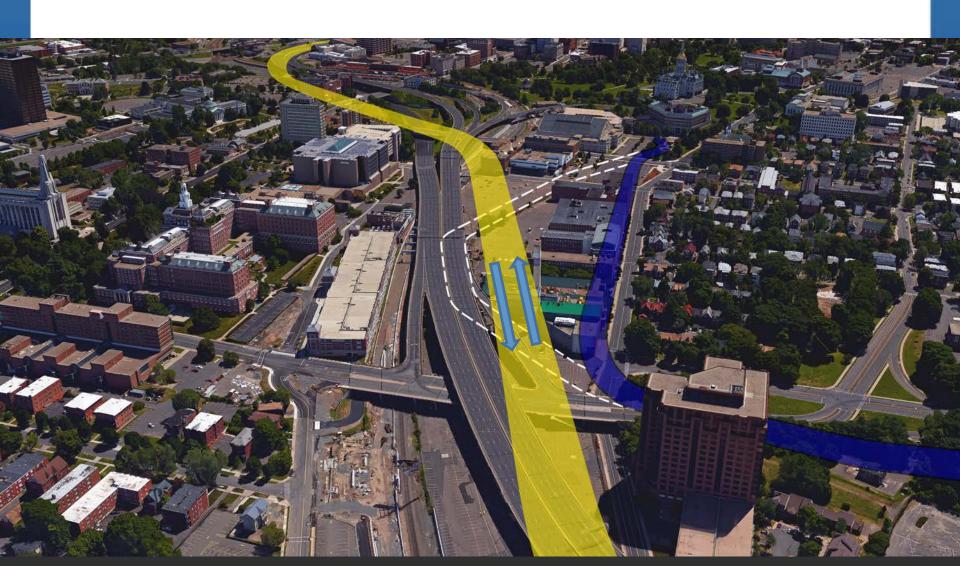


- Stage Construction to the south
- More complicated to build = longer construction duration
- Relocation of the Park River Conduit
- Significant Property Impacts











Alternative 4C

- On existing highway alignment
- Most difficult to build = longest construction duration
- Least amount of property impacts for tunnel alternatives



Alternative 4C





Alternative 4C





3B - E4 (S)



3B - E4 (S)

Alternative (Mainline Alignment)



B - E4 (S)

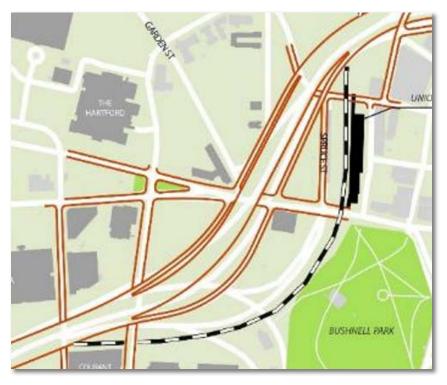
Eastern
Interchange Option



3B - E4 (S)
Sigourney Street
Ramps

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The options...and what we expect from you





This week...

We want to spent the next several days working with you to understand which alternatives and options are most desirable in terms of balancing benefits and impacts





Many Alignment Options

Options developed so far...

- Elevated Highway: 3 options
- Lowered Highway (east): 9 options
- Lowered Highway (west): 6 options
- Tunnel: 3 options



Quick Score

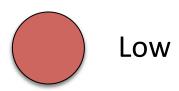
Basic Criteria

Highway Benefit – Impact to highway operations and safety

Local Street Benefit – Impact local street operations, multimodal integration, and connectivity

Property Impacts – Impact to existing property

Relative Performance



















































































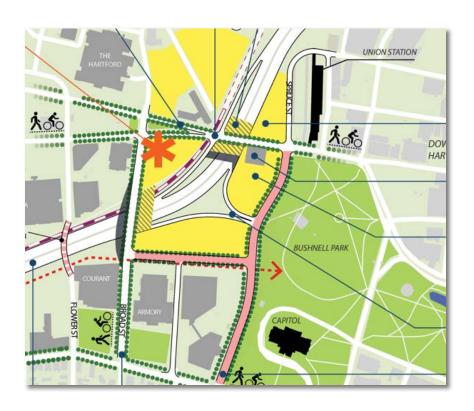








Urban opportunities



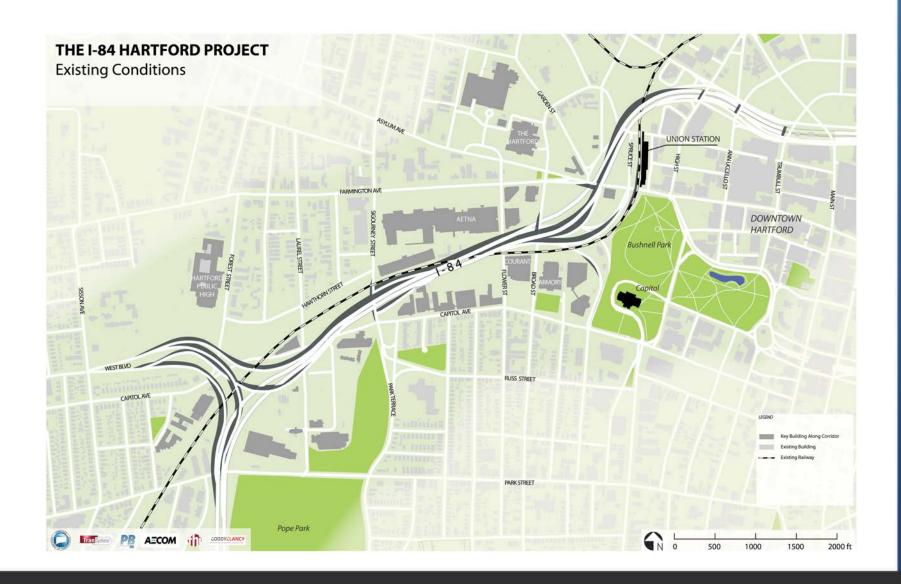


Urban Context

- We have selected a combination of different Mainline and Interchange Options to analyze as part of the Open Planning Studio
- These are not our "final" or "preferred" options but rather a variety of ways to look at the benefits and impacts to the City and to gather your input and feedback

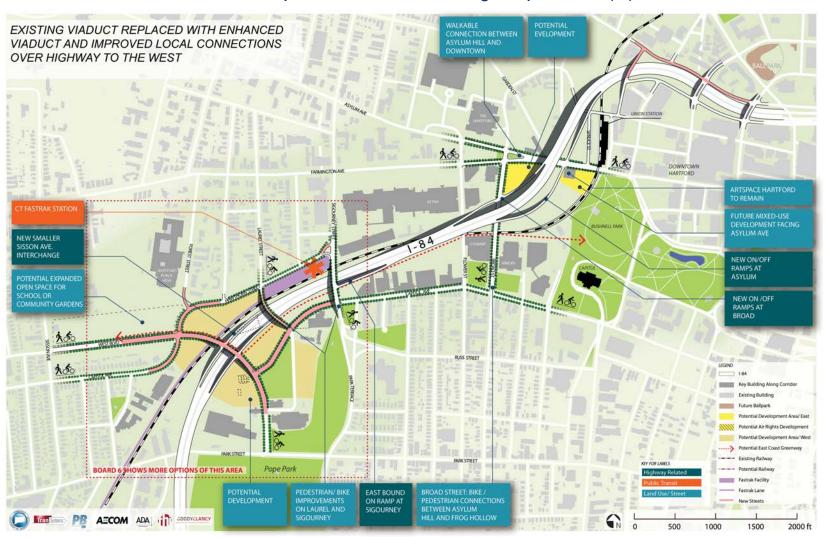


Existing Conditions



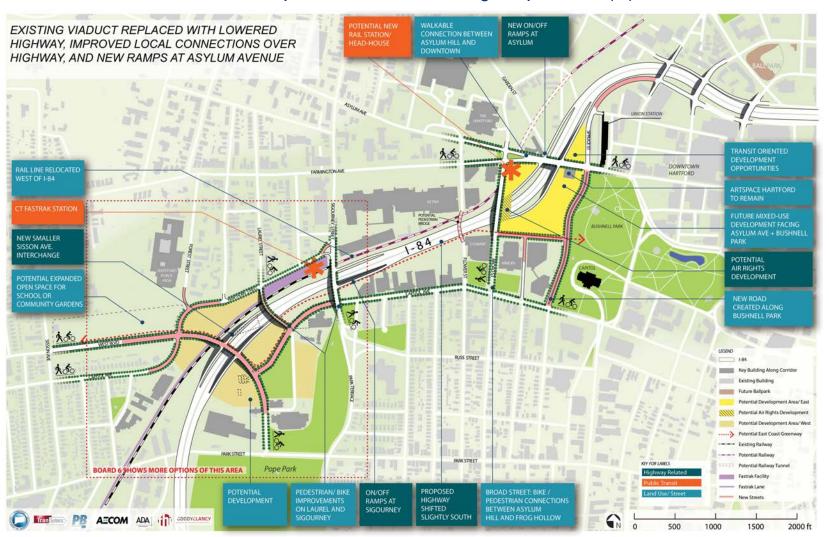


Mainline Option 2A – Interchange Option E3(S)



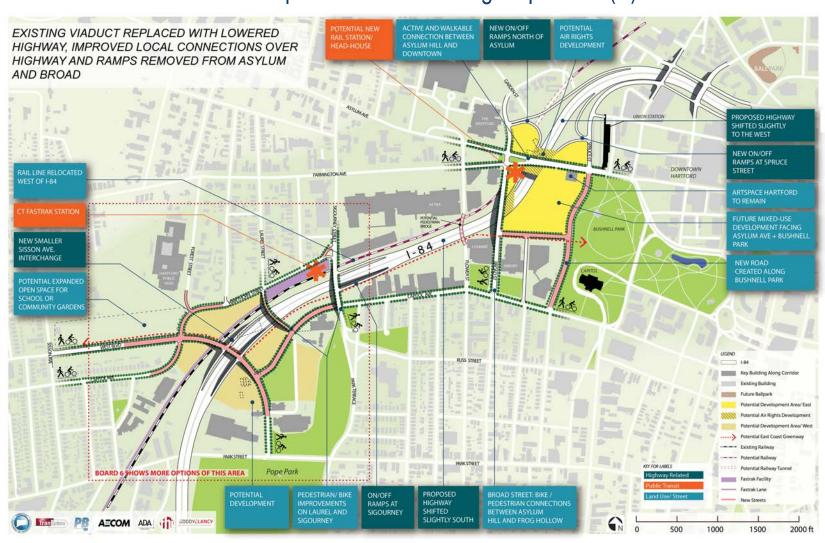


Mainline Option 3A – Interchange Option E2(S)



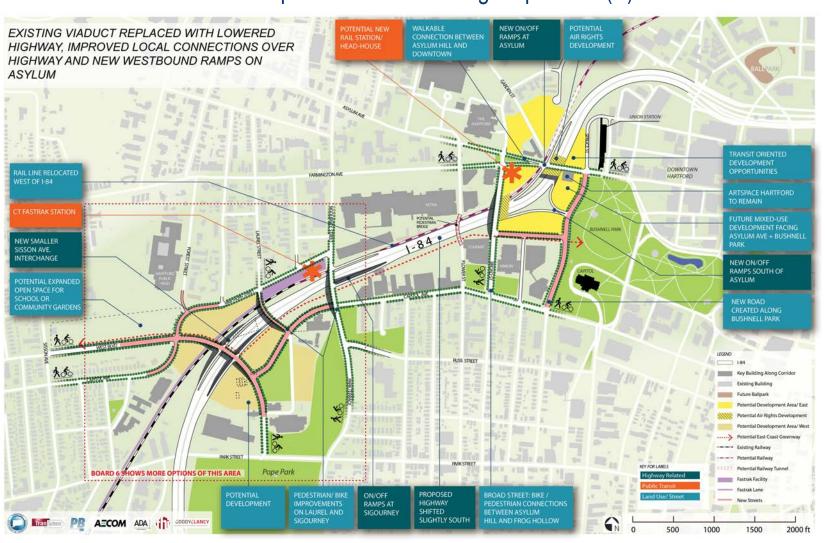


Mainline Option 3B – Interchange Option E4(S)





Mainline Option 3C – Interchange Option E1(S)





Mainline Option 4C





West Options

SISSON AVENUE RAMPS REPLACED WITH SMALLER RAMPS THAT TAKE UP LESS LAND AREA AND A VARIETY OF OPTIONS AND OPPORTUNITIES FOR LOCAL STREET CONNECTIONS







WEST BLVD TO PARK ST (2/3 W1)

- · Existing Sisson ramps removed
- · Replaced with smaller diamond interchange
- · West Blvd continuous over I-84 to Pope Park
- · Capitol Ave west of I-84 connects to Hawthorn
- · Capitol Ave east of I-84 ends at West Blvd

CAPITOL AVE THROUGH STREET (2/3 W3-1)

son ramps removed

- neplaced with smaller on/off ramps
- · Capitol Ave continuous over I-84 from west to east
- · West Blvd ends at Forest Street
- · Park Street goes over I-84

WEST BLVD THROUGH STREET (2/3 W5)

- Existing Sisson rar
- · Replaced with smaller diamond interchange
- West Blvd continuous over I-84 connecting to Capitol Ave
- Capitol Ave west of I-84 connects to Forest







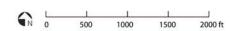














Asylum Avenue – Existing view looking east towards Downtown





Asylum Avenue – Potential view looking east towards Downtown





Broad Street – Existing view looking south towards Armory





Broad Street – Potential view looking south towards Armory





Sigourney St. – Existing view looking south to Park Terrace





Sigourney St. – Potential view looking south to Park Terrace





Capitol Ave. – Existing view looking east towards Sigourney





Capitol Ave. - Potential view looking east towards Sigourney





Aerial View

Sisson ramps – Existing aerial view looking north





Aerial View

Sisson ramps – Potential aerial view with lowered highway





Addressing Purpose & Need

Improve traffic operations and safety Address structural deficiencies Reduce congestion

	portation modes
	Create connections to transportation modes
	Create con

Goals and Objectives

Utilize cost effective solutions

Sequence staged construction to minimize impact on Reduce maintenance and operating costs

traveling public/local community

Reconfigure I-84 in a manner that increases opportunities for economic development Reduce the physical impact by reducing the I-84 footprint

Repair the visual and physical connectedness of the areas that are divided

Create aesthetically pleasing spaces for highway areas adjacent to local streets/properties

Support the City's urban design goals

No Build

Alternative

Elevated Highway (2A)

Purpose/Need

Lowered Highway (3A)

Lowered Highway (3B)

Lowered Highway (3C)

Tunnel (4A)



What we know so far...

- Many of the alternatives and options address a majority of the Purpose and Need (P/N) – some fall short
- Many P/N objectives achieved: a safer highway, better access to and from Downtown, walkable and bikable streets, transit-oriented development opportunities, opening up Bushnell Park, removing physical and visual barriers, and reconnecting City neighborhoods and people
- But no perfect solutions: there are unavoidable impacts



Thank You!

Thank you for coming. We deeply appreciate your time and 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



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