PAC Meeting #10

February 25, 2016

84 Meeting Purpose

The I-84 Hartford Project Team is refining alternatives and continuing the conversation on eliminating some from further consideration. The purpose of today's meeting is to present our latest findings and get your feedback.

Meeting Agenda

1. Alternatives Analysis Update

- a. General Overview
- b. Lowered Alternative revisions
- c. Tunnel Alternative discussion
- d. Bicycle, pedestrian and public transportation
- e. Urban design opportunities
- 2. I-84 / I-91 Interchange Study
- 3. 2016 Year at a Glance
 - a. Major milestones
 - b. Public Involvement Activities

4. Next steps

Major PI Events in Fall 2015

- October 20-29 Public Meetings Manchester, Hartford and West Hartford
- November 2 Agency Coordination Meeting
- November 10 Freight Round Table
- November 16 OPS @ Hartford Public Library Mark Twain Branch
- November 17 PAC meeting
- December 2 East Hartford Public Meeting
- December 10 OPS @ Conference of Churches

Alternatives Update

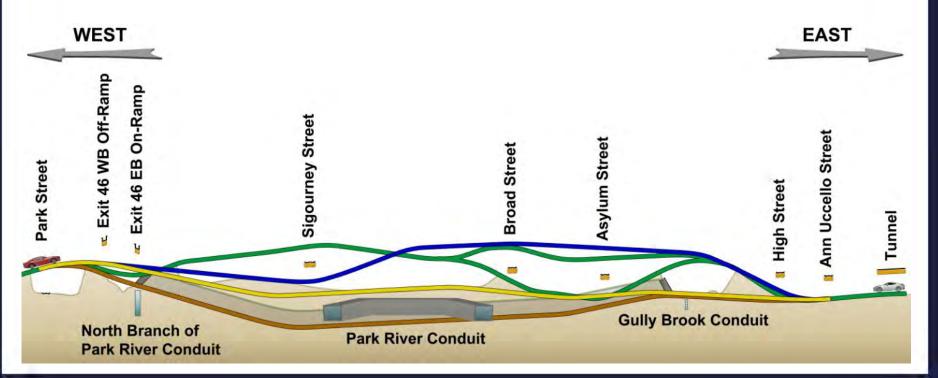
A look back...

- Over 150 alternatives
- Alternative 2 (Elevated Highway) does not satisfy Purpose & Need
- Alternative 4 (Tunneled Highway) has heavy impacts and prohibitively high costs
- About a dozen 'favorable' alternatives remain

Mainline Alternatives

- Alternative 1(No-Build)
- Alternative 2 (Elevated)
- Alternative 3 (Lowered)
- Alternative 4 (Tunnel)

Green Blue Yellow Brown

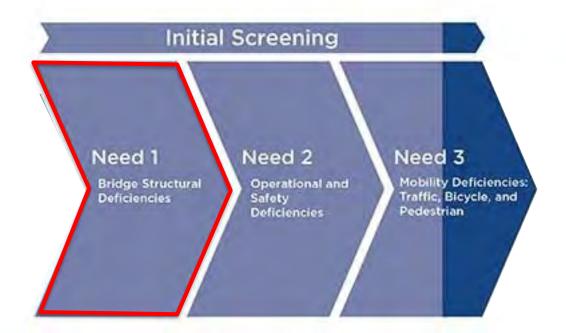


Various Ramp Options



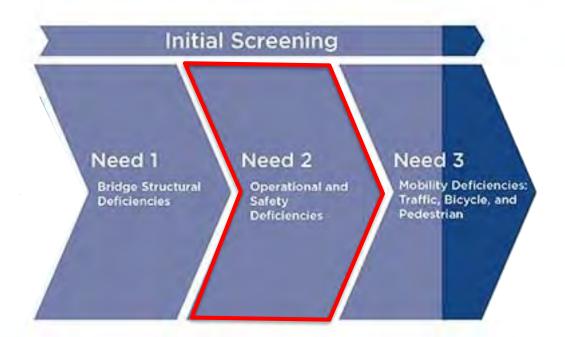
Initial Screening

1. Does the option address *bridge structure deficiencies*?



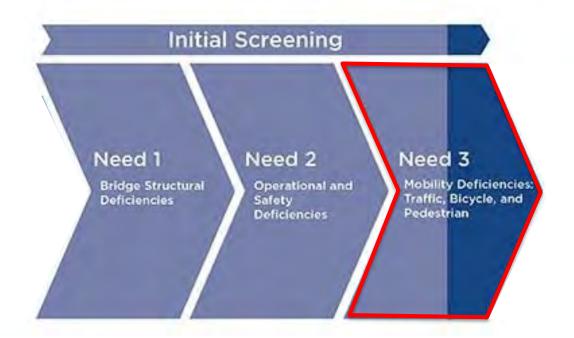
Initial Screening

2. Does the option address *operational and safety deficiencies*?



Initial Screening

3. Does the option address *mobility deficiencies*, including *traffic performance and bicycle and pedestrian accommodations*?



Need 3: Mobility

- Project Team is currently working on ideas to improve bicycling, walking, and transit service
- Urban Design is tightly interrelated to this effort and also ongoing
- The Project will provide significant opportunity to change the way local streets look, feel, and become part of the community over time

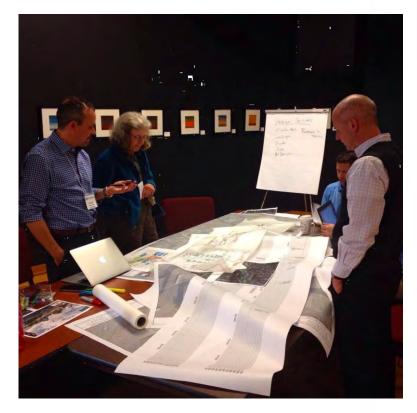
34 The Lowered Highway- Updates and Revisions



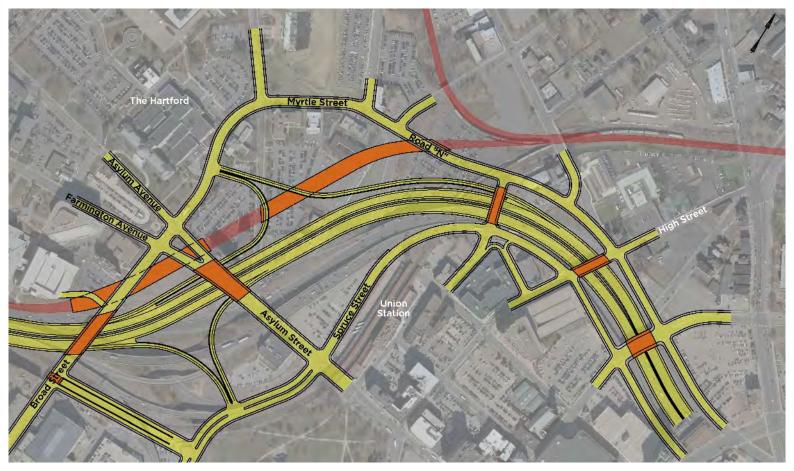
Refinements to the Lowered Highway

We wanted to explore options that...

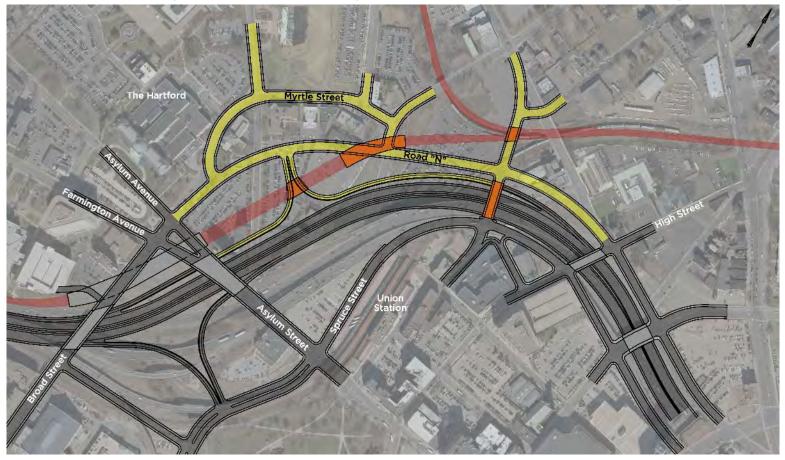
- Add more local streets to the network
- Create larger development
 parcels
- Move the RR closer to Union Station
- Locate ramp termini away from The Hartford's main entrance

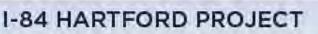


Eastern Option 3B-E2(S) As Originally Presented

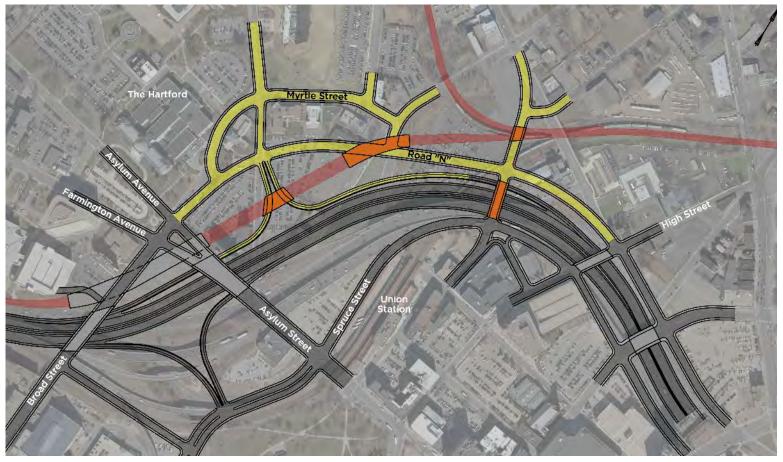


Eastern Refinement 1 Realign Frontage Road and Ramps

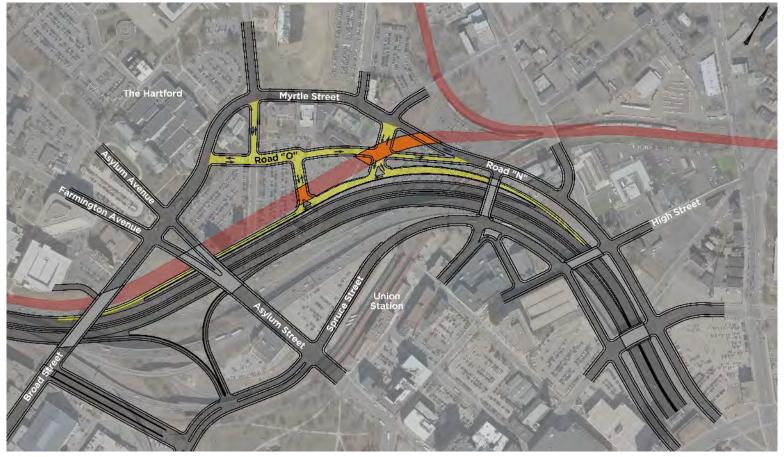




Eastern Refinement 2 Align Ramps with Garden St.



Eastern Refinement 3 Frontage Road



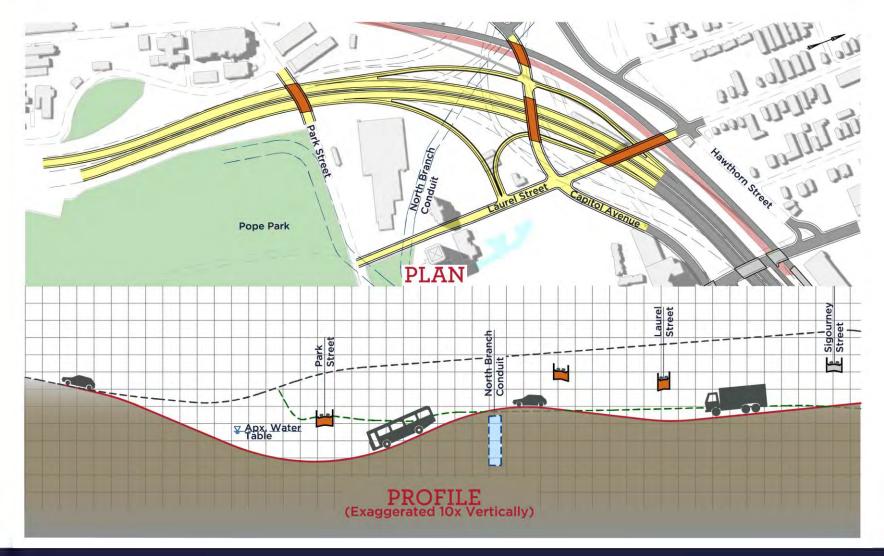
Refinements to western alignment

- Existing I-84 bridge over Park Street creates an unpleasing gateway to Pope Park
- Design team investigated lowering the highway under Park Street



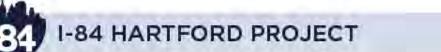
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Western Refinement



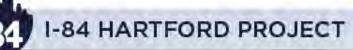


Park Street looking east towards I-84 overpass: Existing





Park Street looking east towards I-84 overpass: Potential





Park Street looking east towards I-84 overpass: Potential

Refinements to western alignment

- Profile is challenging and would not provide clearance for widened Park Street bridge
- Lowering highway below ground water table and adjacent Park River would be undesirable
- Other treatments may provide a more 'open' feel traveling under the bridge on Park Street

84 The Tunnel- Updates and Revisions

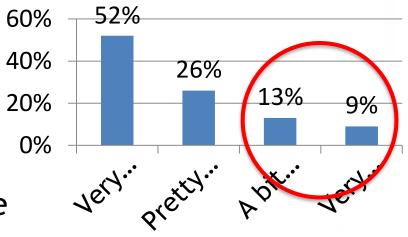


Tunnel Discussion

How comfortable do you feel about removing Alternative 4 (Tunnel) from further consideration?

- Very comfortable
- Pretty comfortable
- A bit uncomfortable
- Very uncomfortable

About 1/4 of PAC uncomfortable with removing tunnel

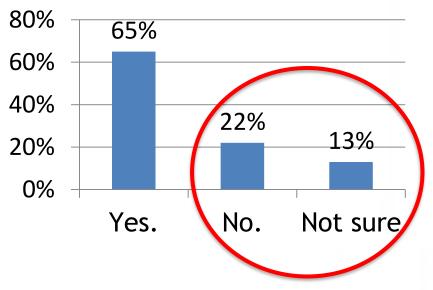


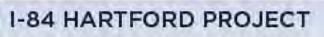
Tunnel Discussion

Do you feel that we have done enough to communicate both the benefits and the limitations of a tunnel option?

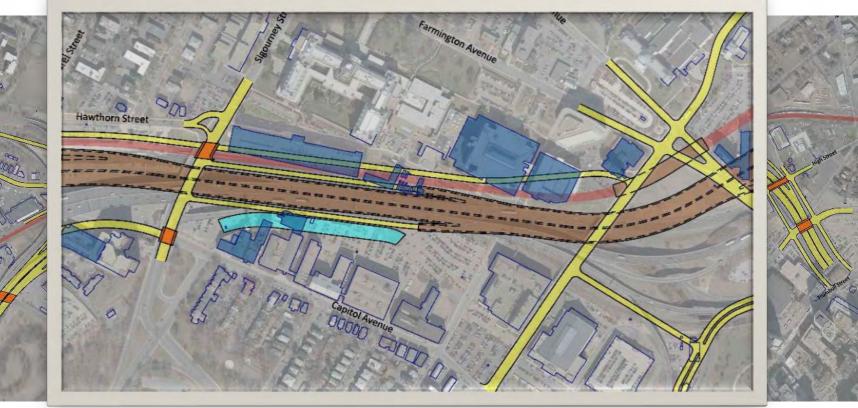
- Yes
- No
- Not sure

About a third of PAC feel that more discussion is needed





Tunnel Alternative 4C-2(S)



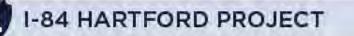
- Interchange ramps at Sigourney Street
- Acceptable traffic operations
- Significant property impacts

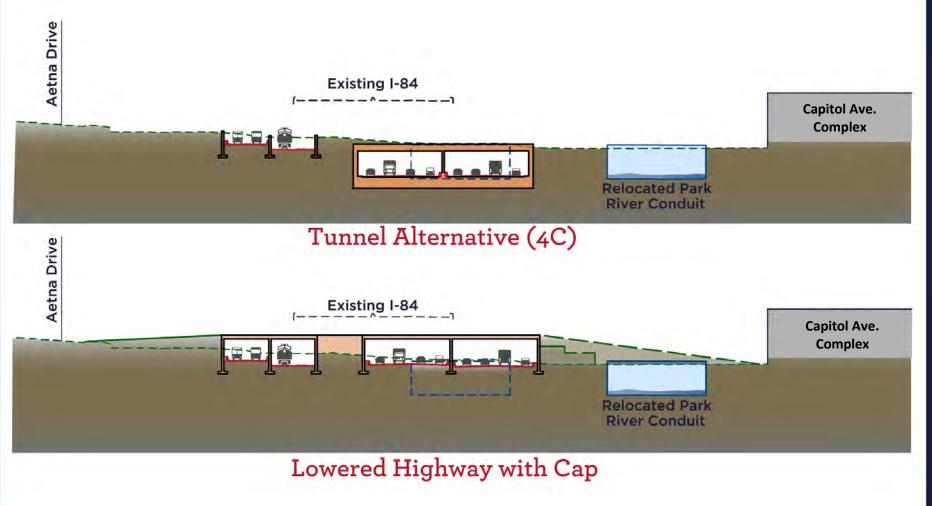
Urban Design Assessment

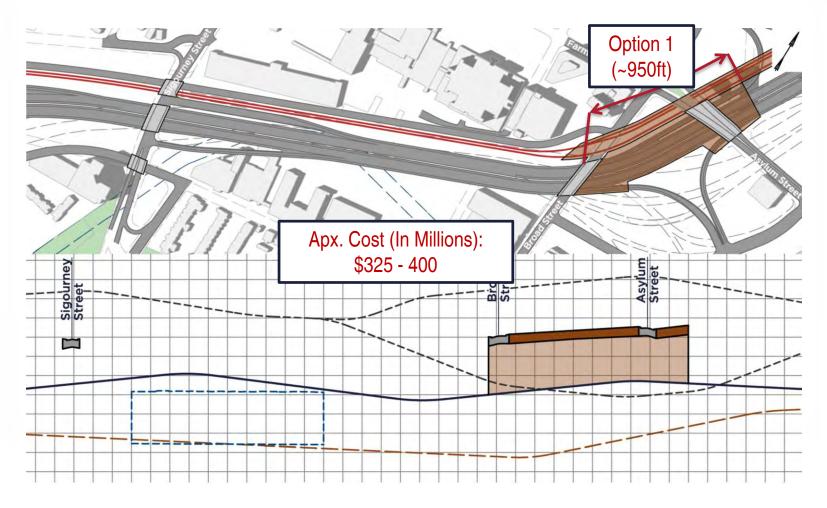
- Land over the highway not well-suited to support future development:
 - Behind buildings and adjacent to the rail line
 - Poor access and visibility
 - Cost premiums a major financial obstacle
- Well-suited for a linear park / open space
- Could also accommodate parking
- Potentially mitigates noise / visual impacts

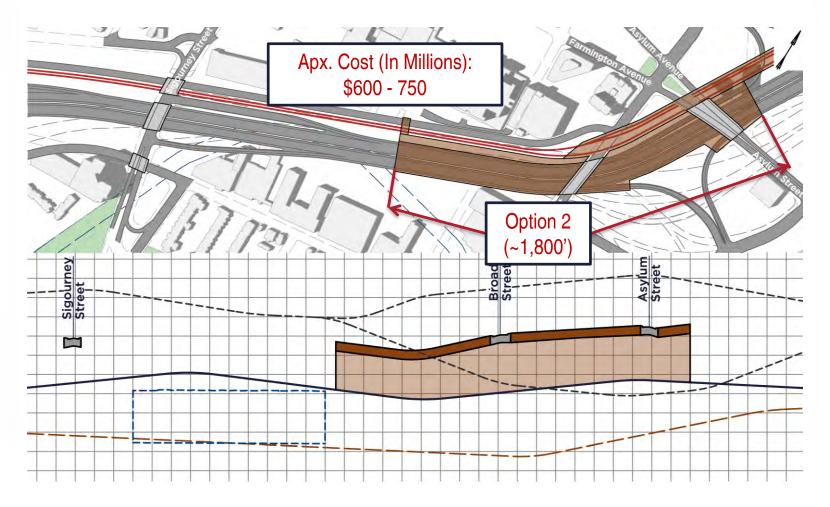
New Alternative: Capped Highway

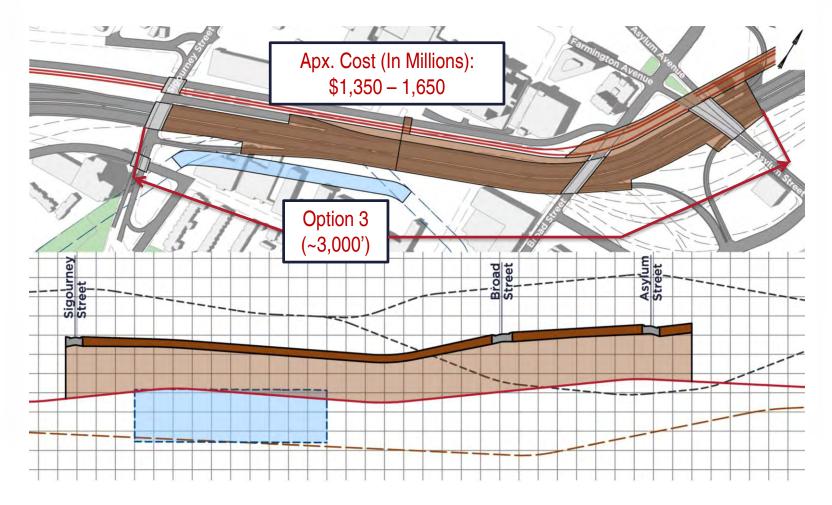
With continued input from the community, we looked for solutions to provide the benefits of a tunnel at a lower cost. The new alternative that we are presenting today is a result of that effort.











80

SIGOURNEY STREET

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SIGOURNEY STREET

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SIGOURNEY STREET

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PARI

SIGOURNEY STREET

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New Alternative: Capped Highway

New Alternative: Capped Highway

- Capping the highway will give the appearance of a tunnel at a lower cost
- Various options for capping including length and use
- Benefits vs. costs/building impacts will be assessed
- Much still needs to be learned

Questions/Next Steps

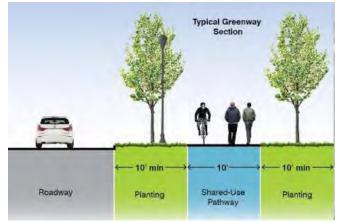
- Are you comfortable having the Team continue to develop this new alternative?
- Are you still concerned with eliminating Alternative 4 from further consideration?
- Next Steps:
 - Continued coordination with City
 - Monthly meetings with Urban Design WG
 - Continued concept development



Mobility Screening





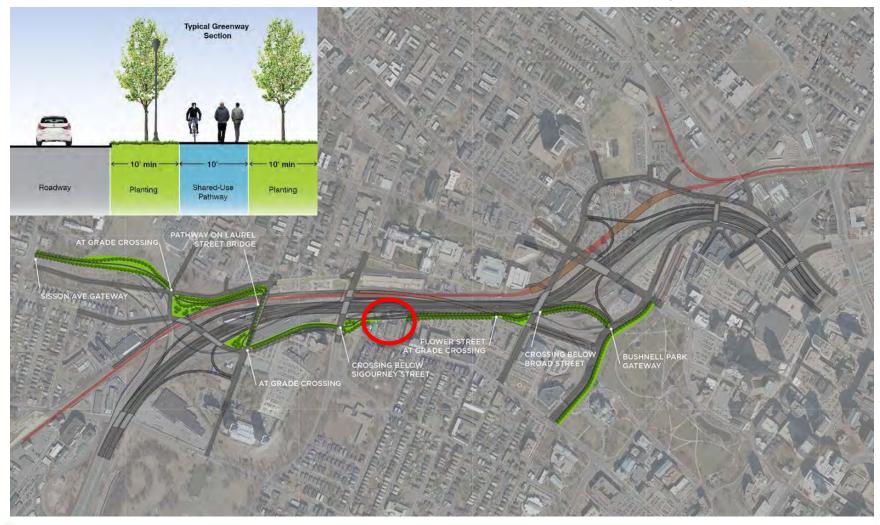




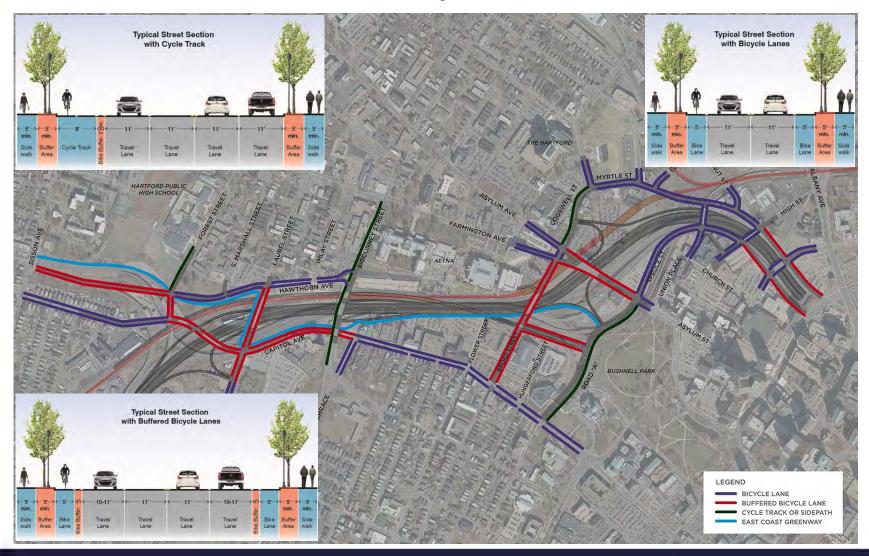
Continued Mobility Screening

- East Coast Greenway
- On-street bicycle accommodation and Complete Streets
- Hartford Line and CTfastrak integration
- Potential development opportunities
- Urban design opportunities

East Coast Greenway

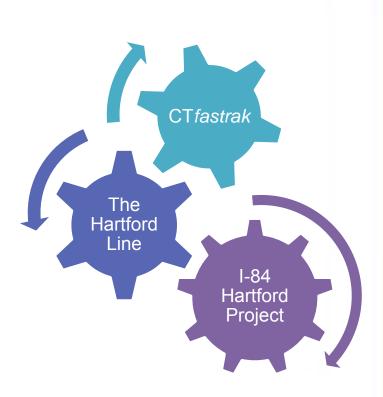


On-Street Bicycle Network

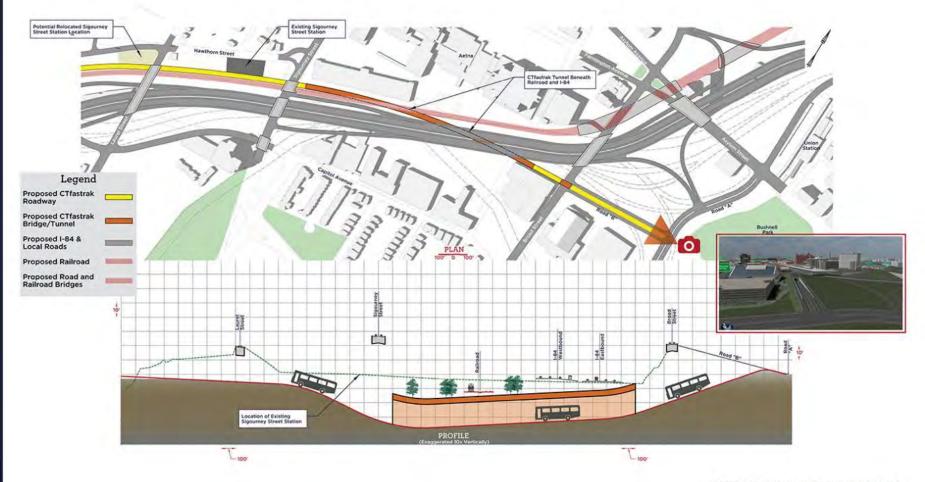


Public Transportation Integration

- Neither the highway nor the rail can be "solved" without the other
- CT fastrak and Hartford Line service will be important travel options that must be operational during construction



CT*fastrak* Modifications



Hartford Railroad Alternatives Study

- Assessed rail viaduct
- Examined a range of alignments
- Concluded that rail relocation is feasible AND preferred
- Will be incorporated into the I-84 Hartford Project moving forward

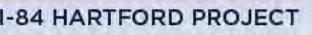






Development Opportunities



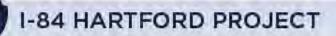


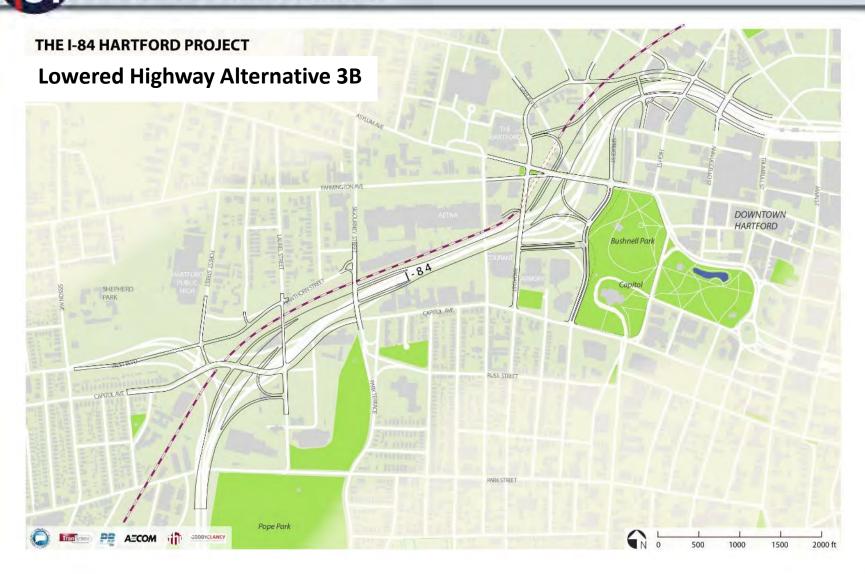
I-84 Urban Design Goals

- Reconnect the City across the highway
- Strengthen the character and functioning of districts on either side of the highway
- Promote TOD around Union Station
- Integrate highway access points within urban fabric













THE I-84 HARTFORD PROJECT

Potential Land Areas for Transit/TOD/Parking/Public Space





Asylum/Broad - Urban Design Analysis



Asylum/Broad – Air-Rights and Solid Ground Parcels

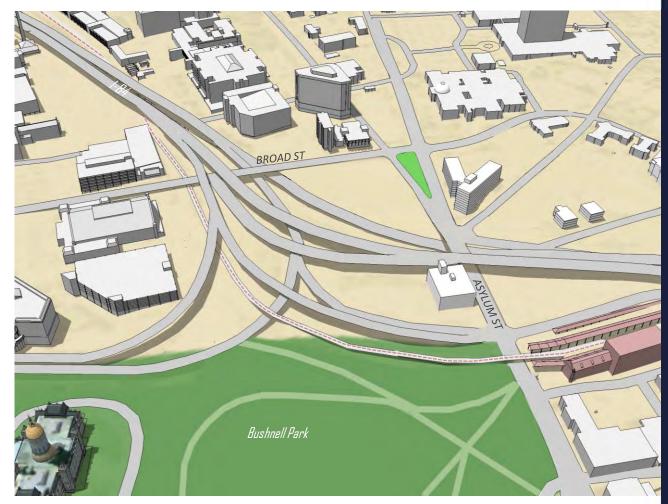


Asylum/Broad - Urban Design Analysis





Existing Conditions – Elevated Highway



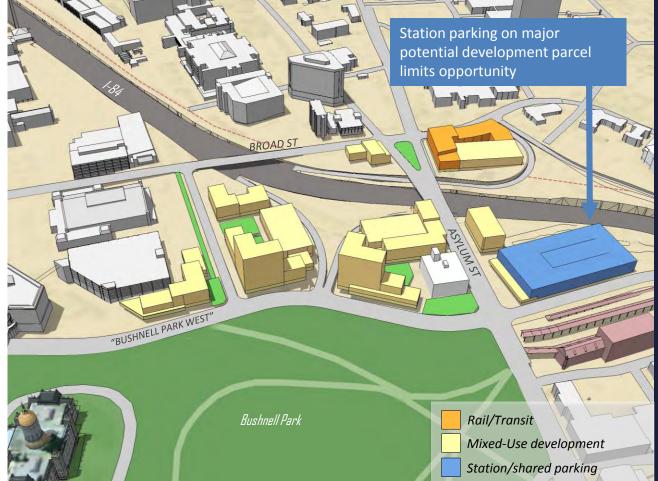
Base Scenario: Lowered Highway Alternative (No Cap)

- Open land areas
- Bridges over highway at Broad and Asylum
- Rail moved west of I-84
- New park frontage road: "Bushnell Park West"



Scenario #1: Development on Solid Land Only

- Large gaps in Asylum/Broad corridors
- Fragmented urban fabric
- Challenging corner parcel at Farmington and Broad
- Noise impacts
- Good park frontage
- Missed opportunity to connect Asylum Hill to Downtown and Frog Hollow through continuous urban fabric



Scenario #2: Small Highway Decks

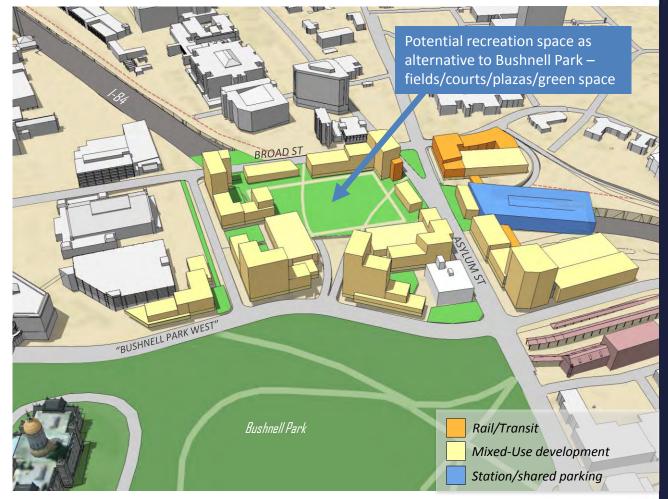
- Connects Asylum corridor
- Connects Broad corridor
- Overcomes sense of crossing a highway
- Provides continuous urban experience
- Open space, plazas, or rail station access on decks
- Good park frontage
- Improved conditions but not perfect



Scenario #3A: Asylum/Broad Cap

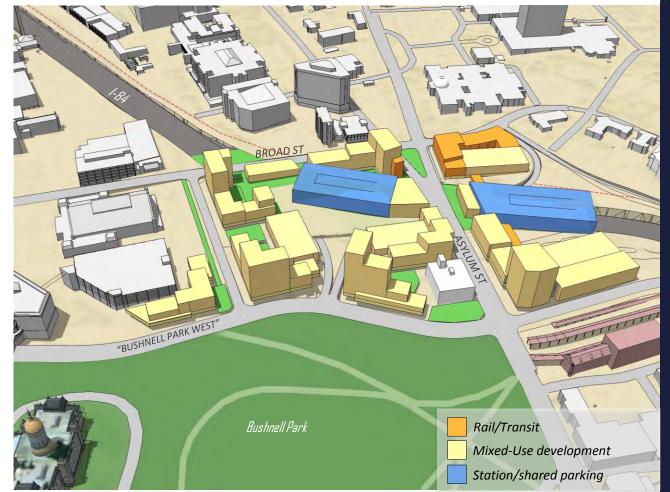
- Public garage directly linked to new rail annex
- Allows development flexibility on other parcels
- Allows flexibility on cap
- Parking shared with surrounding private development and transit

 Optimal enhancements for continuity of urban fabric, public space, parking, and development opportunity



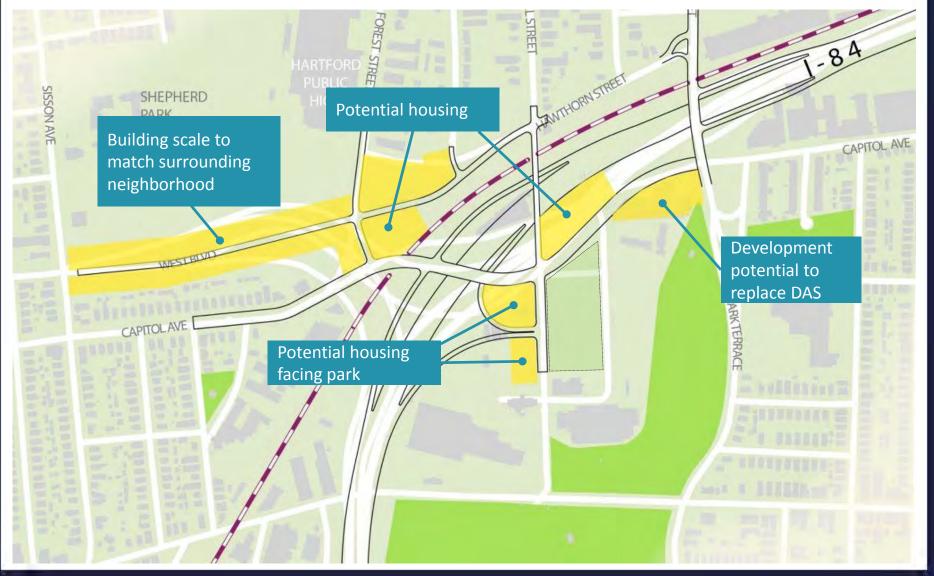
Scenario #3B: Asylum/Broad Cap

- Centralized public garages
- Allows development flexibility on other parcels
- Parking shared with surrounding private development and transit
- Optimal enhancements for continuity of urban fabric, public space, parking, and development opportunity



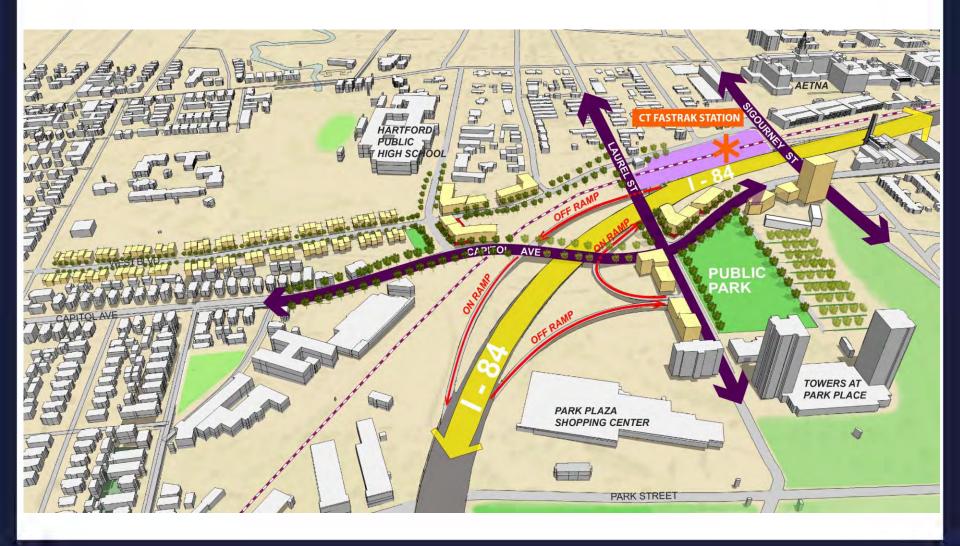
Sisson Avenue - Urban Design Analysis

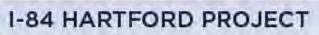
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Asylum/Broad - Urban Design Analysis

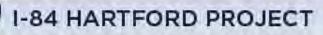




Street-view Visualizations



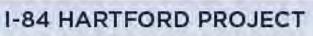
Pearl Spruce / Asylum intersection looking towards Capitol: Existing



Street-view Visualizations



Pearl Spruce / Asylum intersection looking towards Capitol: Potential



Street-view Visualizations



Asylum Street looking west towards rail viaduct: Existing

Street-view Visualizations



Street-view Visualizations



Asylum Street looking east towards rail viaduct: Existing

Street-view Visualizations



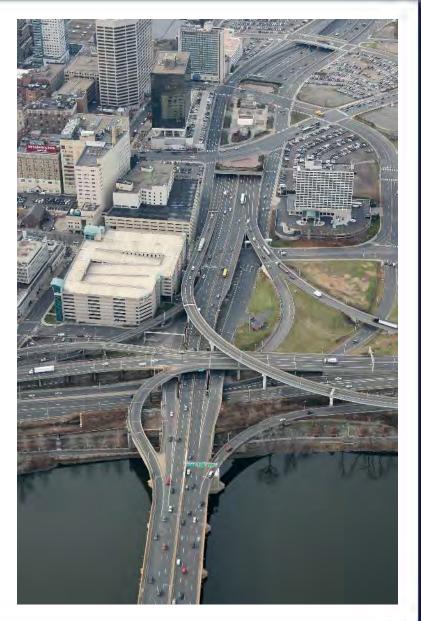
Asylum Street looking east towards rail viaduct: Potential

I-84/I-91 Interchange Study

Traffic analysis

18

- Congestion relief strategies
- Possible relocation of I-84



I-84 / I-91 Interchange Bottleneck

- Serves 275,000 vehicles / day
- I-84 has two through lanes in each direction
- I-91 has two through lanes in each direction



I-84 / I-91 Interchange Study

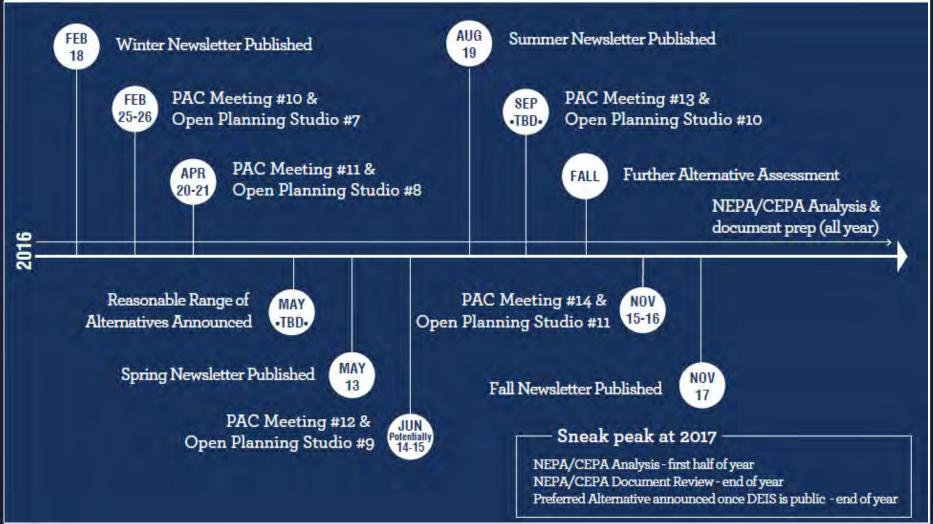


I-84 / I-91 Interchange Study



Potential repurposing of existing I-84 through Downtown Hartford

2016 - Year at a Glance







Thank you for your time! Your I-84 Hartford Project Team

