I-90 ALLSTON INTERCHANGE

PLACEMAKING STUDY

Boston Redevelopment Authority

The Cecil Group Stantec Nelson/Nygaard

Task Force Presentation – December 17, 2015

Agenda for tonight

- BRA Introduction
- Consultant Team Introduction
- Placemaking Analysis and Discussion
- Review of Next Steps

Goals for tonight

- Define placemaking and its role in this process
- Share the methodology we are undertaking
- Describe the anticipated outcome of the work
- Explain the analysis of the area
- Review the key issues that are emerging
- Make sure we are asking the right questions before developing alternative scenarios for the district
- Request additional Task Force input beyond monthly meetings

Study Scope and Schedule

Phase 1

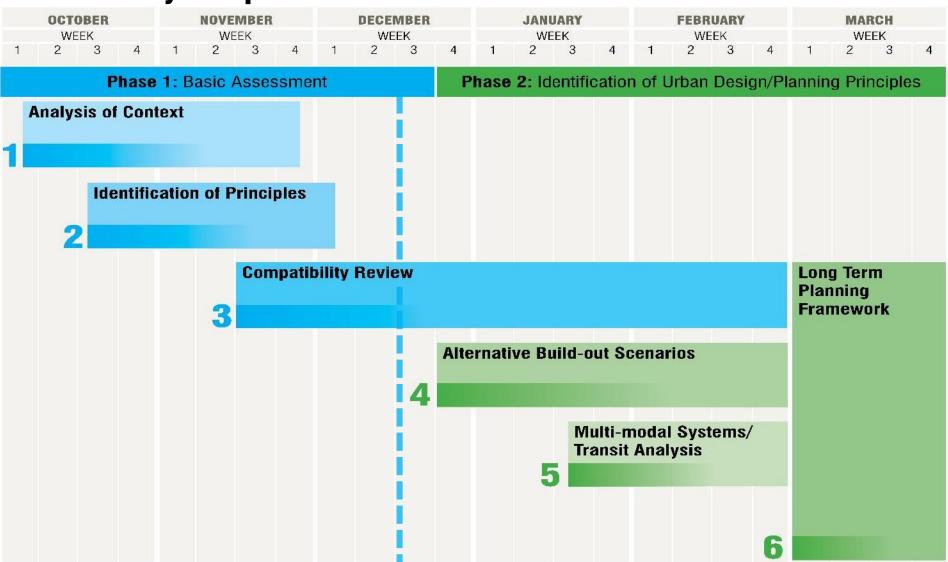
- **Task 1:** Analysis of existing planning and development context
- Task 2: Identification of urban design and planning principles
- Task 3: Compatibility of current MassDOT design with placemaking principles and economic opportunities

Phase 2

- Task 4: Creation and testing of alternative build-out scenarios
- **Task 5**: Analysis of multi-modal systems and connections to transit
- **Task 6:** Creation of long term planning framework diagrams

"Provide a critical evaluation of the proposed MassDOT I-90 roadway and transit infrastructure to ensure that it does not preclude a range of successful urban design, economic development and neighborhood planning outcomes in the future."

Study Scope and Schedule



Outcomes of the study

- Detailed urban design and planning analysis
- Identification of multiple strategies for the future
- Recommendations for the short term (MEPA filing)
- Recommendations for the long term (2030 and beyond)
- "Tool kit" of framework diagrams

Example of Long Term Planning Framework Diagrams

PLAN: South Boston Dorchester Avenue Preserve. Enhance. Grow.

RECAP

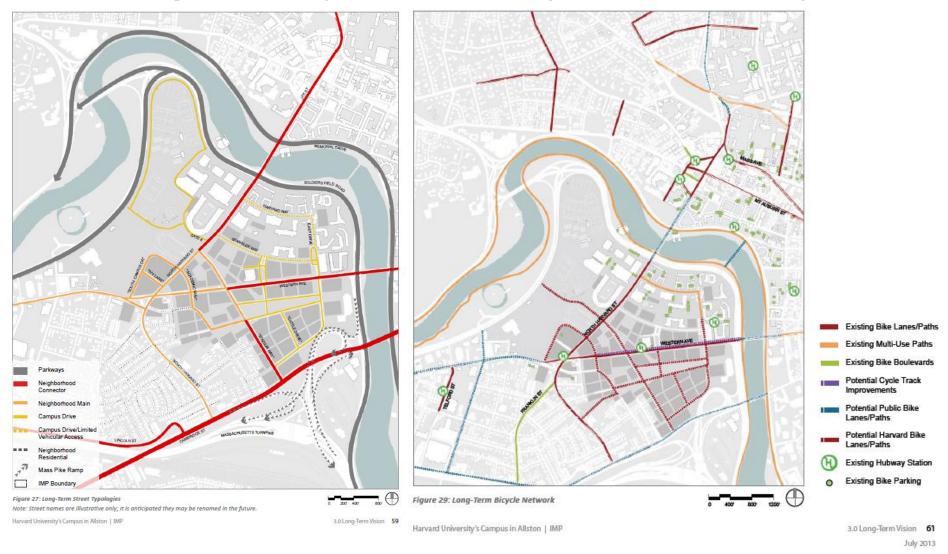


OPEN SPACE CONCEPTS





Example of Long Term Planning Framework Diagrams



Consultant Team Introduction

The Cecil Group

- Urban Design
- Planning
- Landscape Architecture
- Visualization

Stantec

- Real Estate
- Transportation Planning
- Transit Facility Planning
- Highway Design

Nelson/Nygaard

- Transportation Planning
- Multi-modal Strategies
- Complete Streets













Compelling Visions Exist



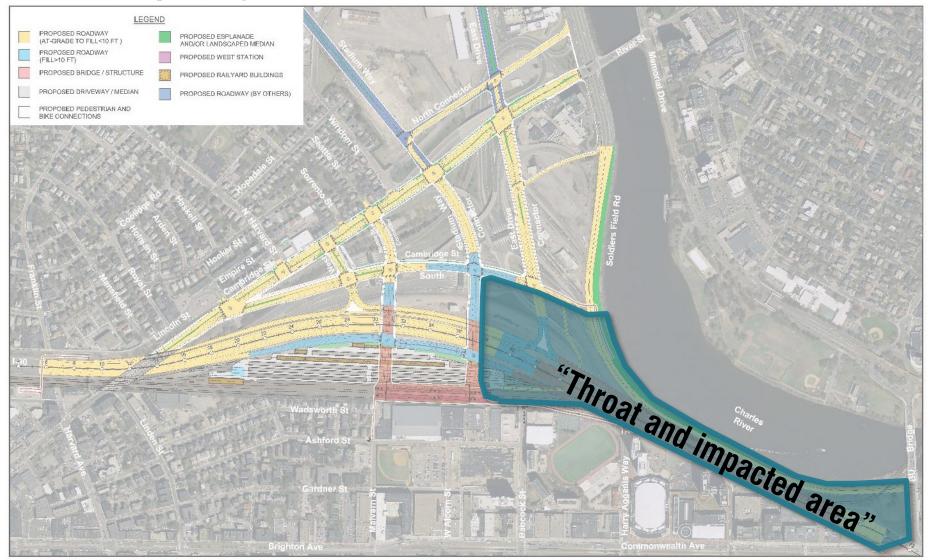


Varanasi Team

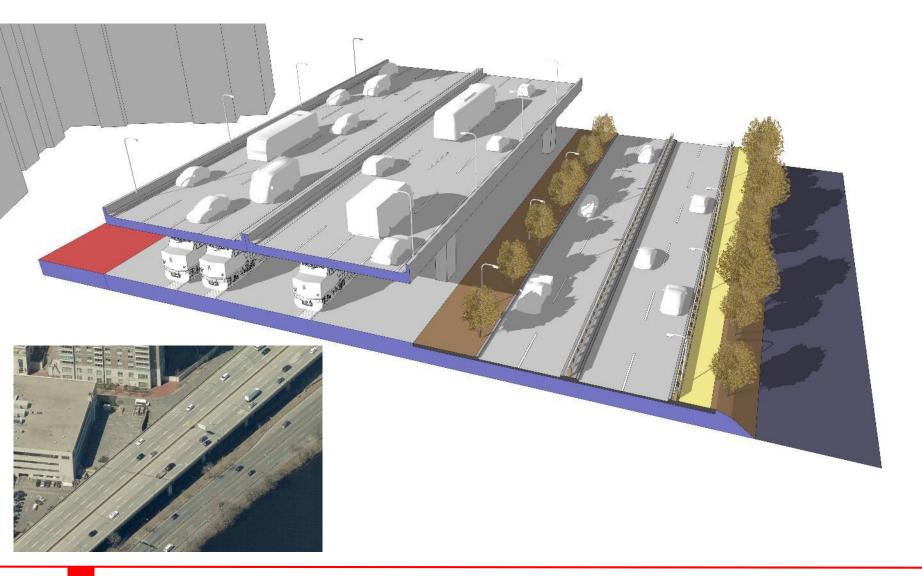
Krieger/Mountjoy Team



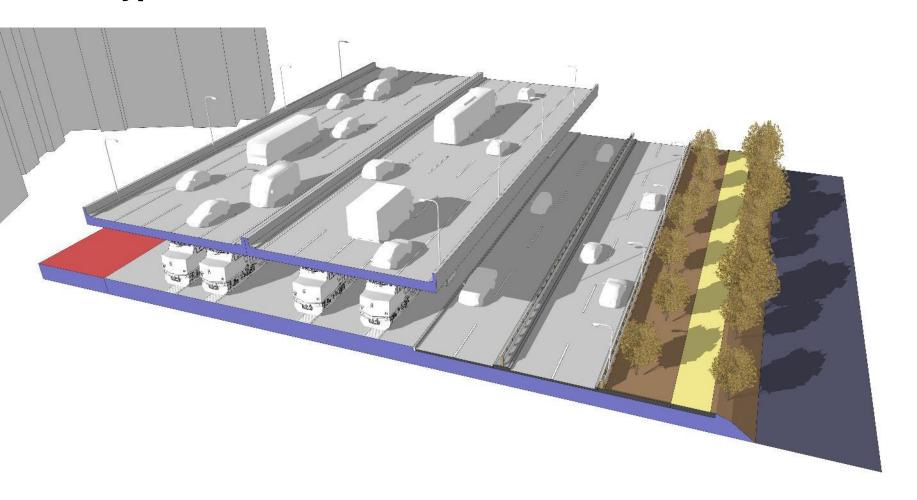
Compelling Infrastructure Alternatives



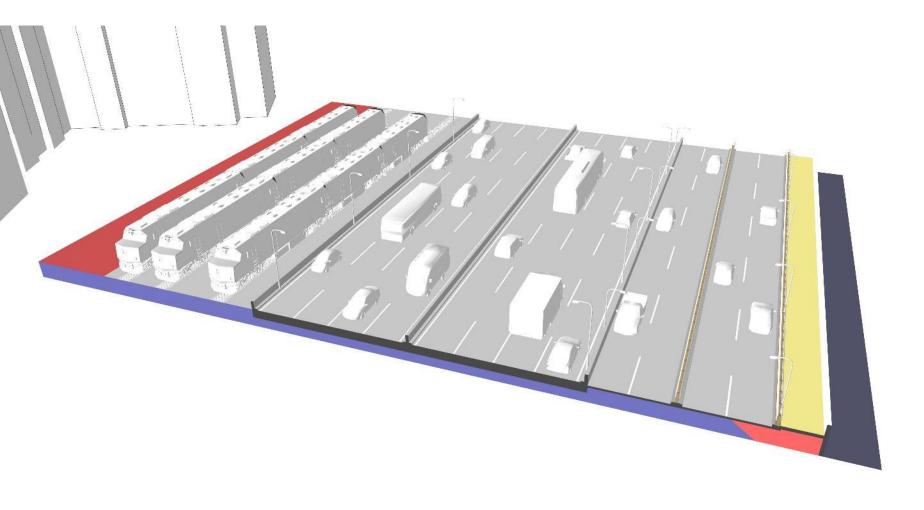
Typical "Throat" Condition – Existing Configuration



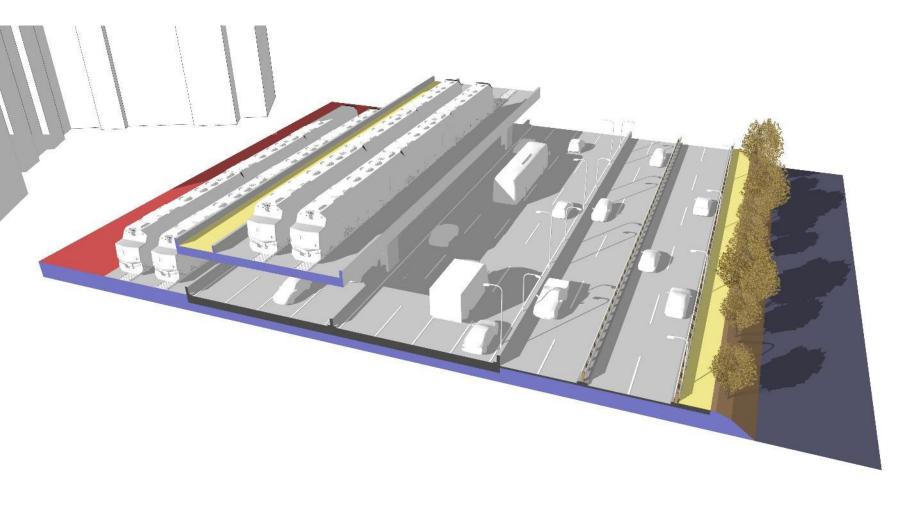
Typical "Throat" Condition – 3K-4



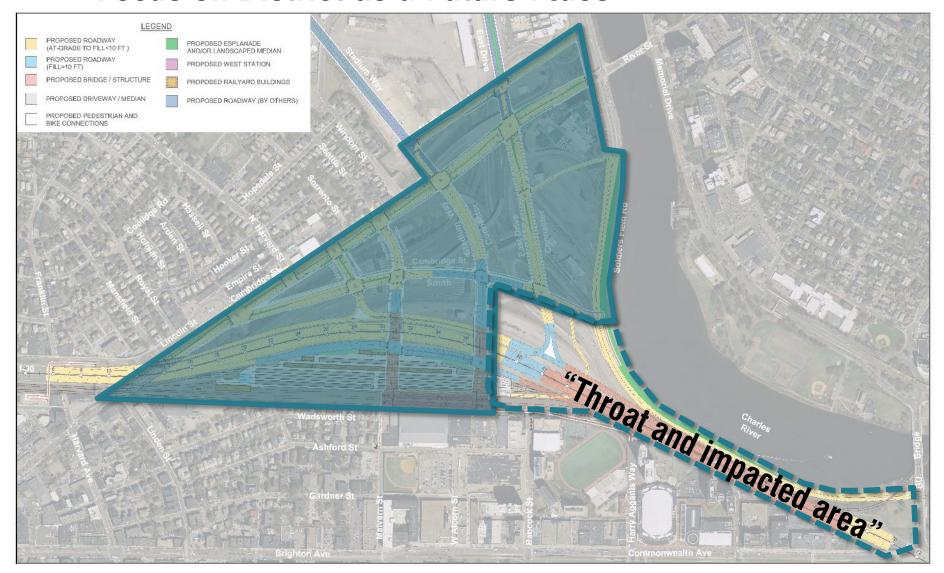
Typical "Throat" Condition – ABC Alternative



Typical "Throat" Condition – Amateur Planner



Focus on District as a Future Place



Key Community Issues

- A Integrated open space network with expanded riverfront park
- Shared use path connection to Charles River, Cambridge, Memorial Drive via Grand Junction Bridge
- Quality of West Station as a landmark and transit-oriented district center with safe and inviting access from all directions
- At-grade alternatives for highway/rail alignments constraints at "throat"
- Walkability and pedestrian environment relative to roadway width
- Unite Allston's north and south neighborhoods by connecting Cambridge Street and Commonwealth Avenue
- Decking over the highway and railyards to reduce noise and air pollution and create a place for buildings, parks and connections
- Transformation of Cambridge Street into a vibrant neighborhood street with protected bike lanes
- Interim conditions and phasing of infrastructure and development

Key Community Issues Mapped B

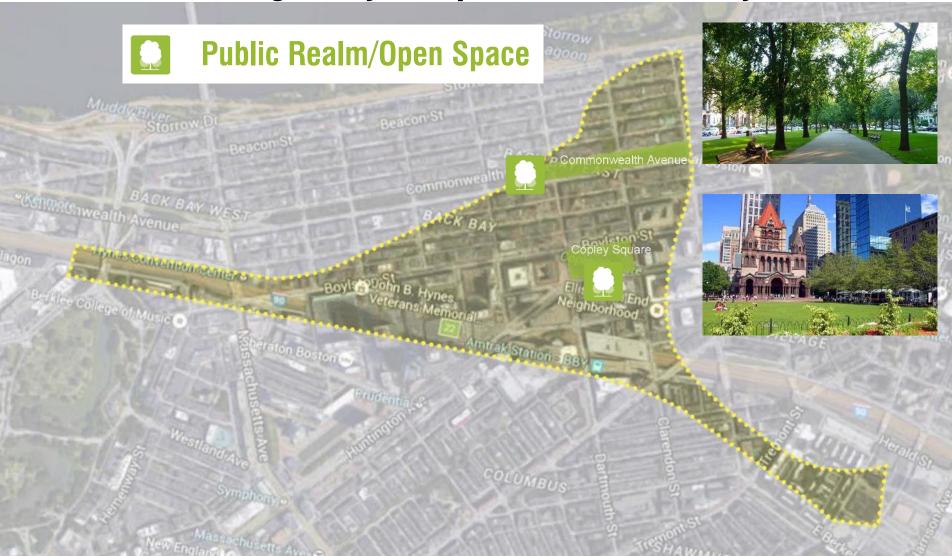
Framework of a Future District

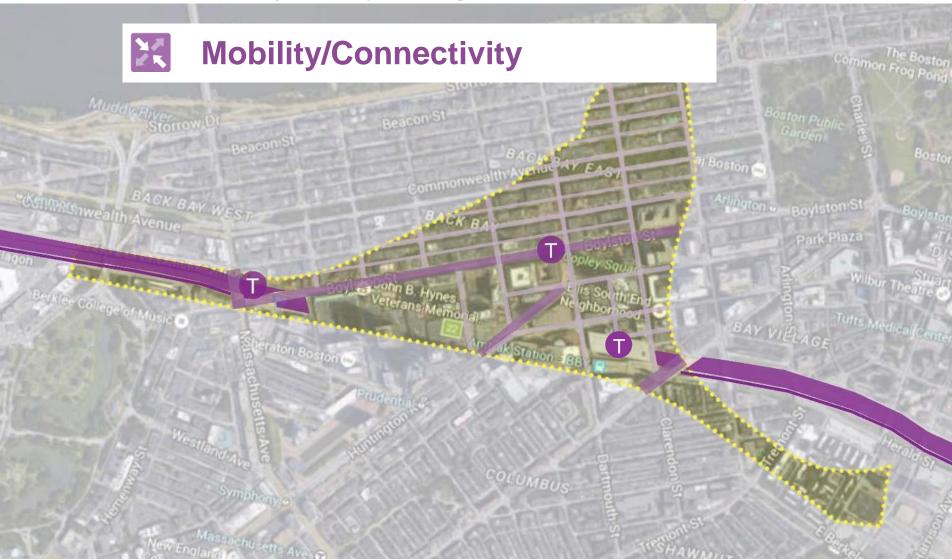
- Public Realm/Open Space
- **Mobility/Connectivity**
- **Development Potential/Flexibility**
- **P** Distinctive Place/Context Sensitive
- Energy Efficiency/Sustainability

Easier to Focus on Existing Places







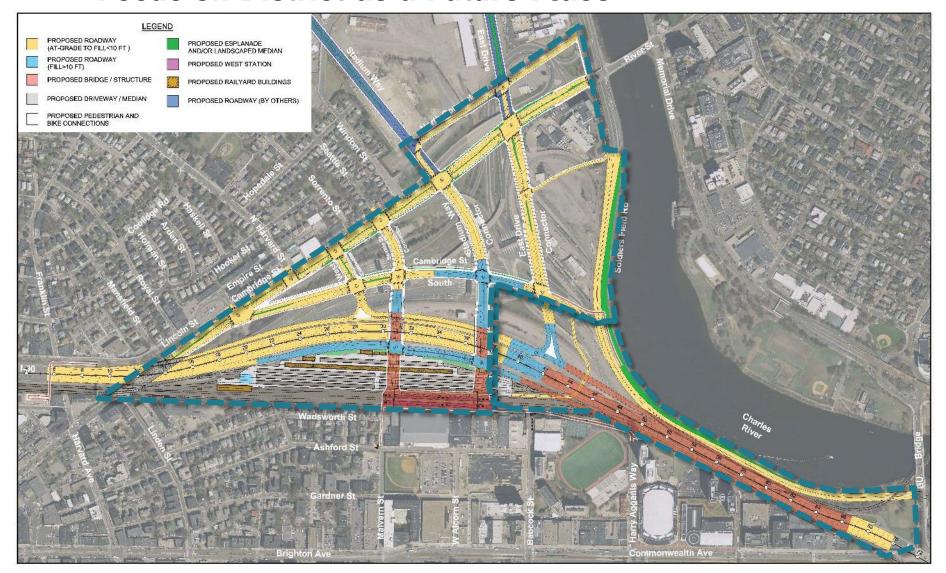








Focus on District as a Future Place



Placemaking Study Analysis

Framework for Analysis and Evaluation

- Public Realm/Open Space
- Mobility/Connectivity
- Development Potential/Flexibility
- **P** Distinctive Place/Context Sensitive
- Energy Efficiency/Sustainability

Placemaking Study Analysis

Framework for Analysis and Evaluation

CATEGORY



Public Realm/Open Space

Open space types and typical dimensions; frequency and distribution of open space; average distance to open space; characteristics of public realm conditions; width of public realm



PROCESS

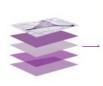






Mobility/Connectivity

Street types and characteristics; pedestrian circulation network; bicycle circulation network; transit network and access; vehicular circulation network







Development Potential/Flexibility

Building typologies and dimensions; block size/geometry; air rights block size/geometry; block access/flexibility; location desirability



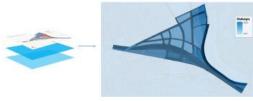




Distinctive Place/Context Sensitive

Placemaking character/features; land use and building typologies; block size and geometry; street typologies and transit nodes; elevation of roadways







Energy Efficiency/Sustainability

Utilities and district-wide infrastructure; solar orientation, wind, shadow; resiliency/flood considerations

Placemaking Study Analysis

Placemaking Principles



Public Realm/Open Space

- Enhance access to useable open space
- Reinforce connections to existing resources Charles River
- Provide active and generous street edges



Mobility/Connectivity

- Reinforce walkable and pedestrian friendly scale
- Enhance multi-modal connections and convenience
- Strengthen connections between adjacent neighborhoods and districts



Development Potential/Flexibility

- Maintain flexible accommodation of a wide variety of building types
- Integrate old and new with context-sensitive, compatible approach with transitions
- Strengthen ability to deck over the highway and rail yards



Distinctive Place/Context Sensitive

- Destination with range of uses and densities
- Maximize opportunities to extend Boston's urban fabric
- Define a network of recognizable places and centers of activity



Energy Efficiency/Sustainability

- Enhance the ability for energy efficient and sustainable district design
- Anticipate climate change, sea-level rise and infrastructure needs



Principles

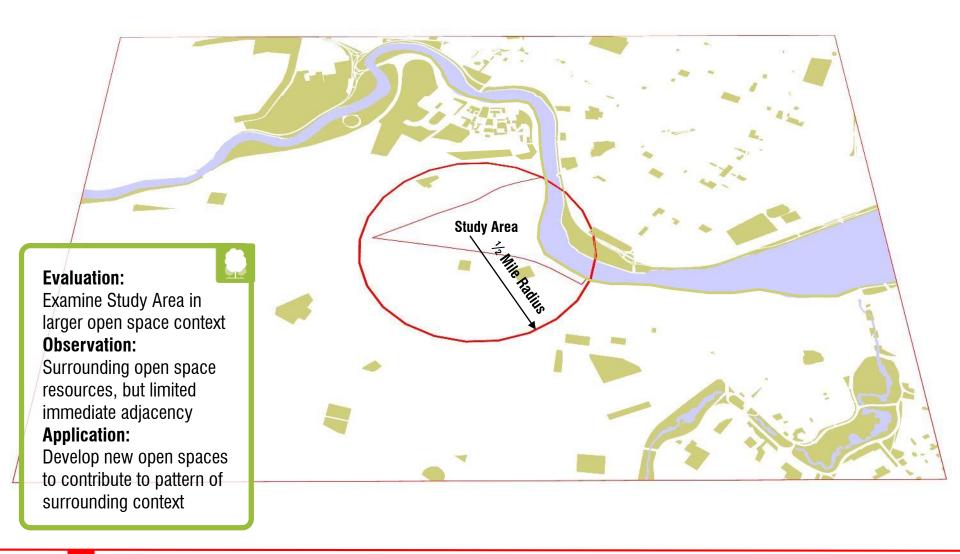
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- Provide active and generous street edges

Focus of Analysis

- Open space types and typical dimensions
- Frequency and distribution of open space
- Average distance to open space
- Characteristics of public realm conditions
- Width of public realm



Existing Open Space Context





Existing Open Space Context

(Open Space & Recreation Plan 2015-2021)



Open Space Types

Malls, Squares & Plazas

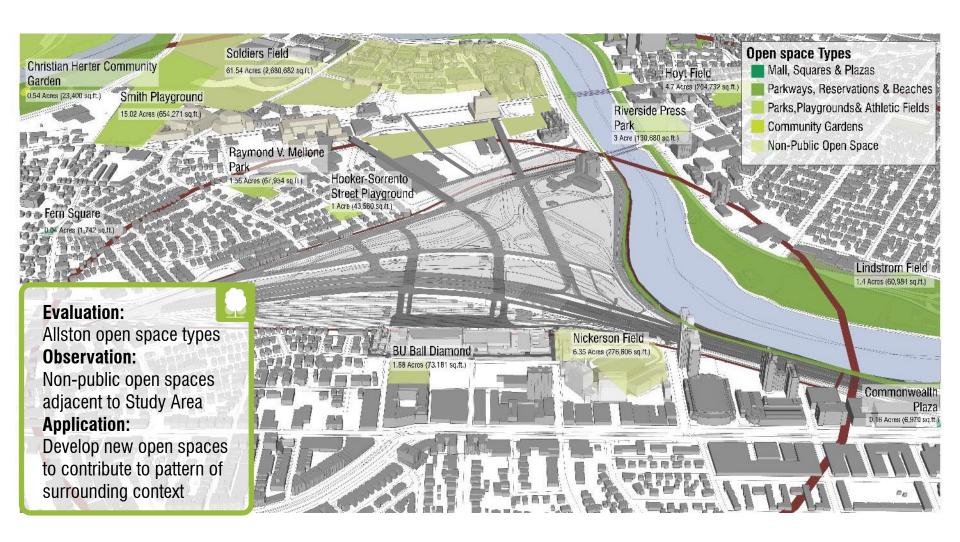
Parkways, Reservations & Beaches Parks, Playgrounds & Athletic Fields Cemeteries & Burying Grounds

Non-Public Open Spac

Neighborhood



Existing Open Space Context





Open Space Types



Evaluation:

Typical open space types

Observation:

Service areas relative to park type and size

Application:

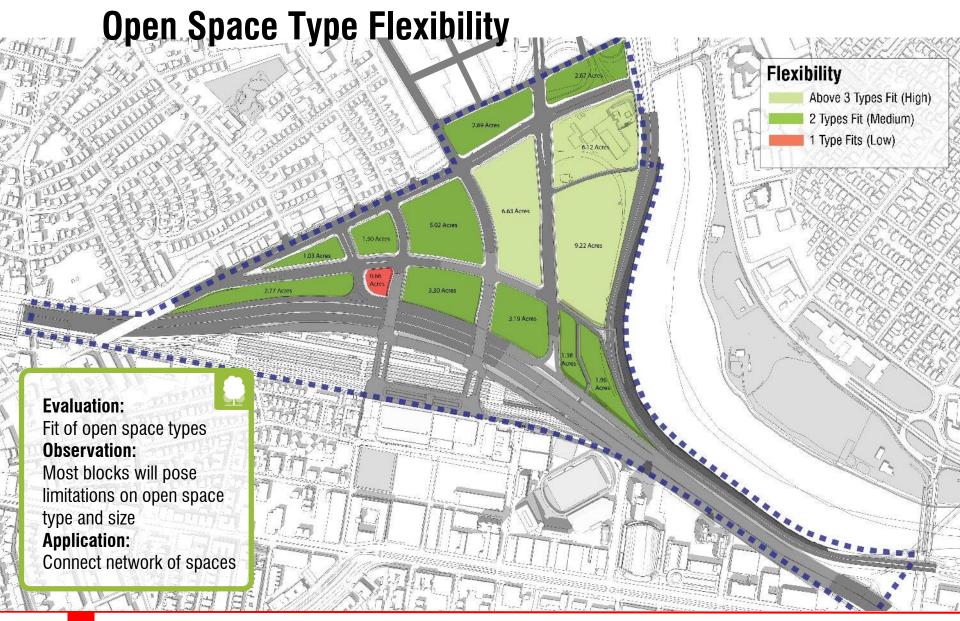
Open space type and service area contribute to calculation of access













Access to Open Space

(Open Space & Recreation Plan 2015-2021)





Open Space Composite Heat Map Riverside Press Park Alberico Park Constrained scale of llone Park blocks and proportions Challenges limits the types of open MORE ooker-Sorrento Playground spaces Pocket park or linear LESS types of open space Substantial should be studied opportunities for both new open space and access Wide range of types Transit and transportation should be investigated infrastructure limits ability to create open space Focus on enhanced open space connections



Principles

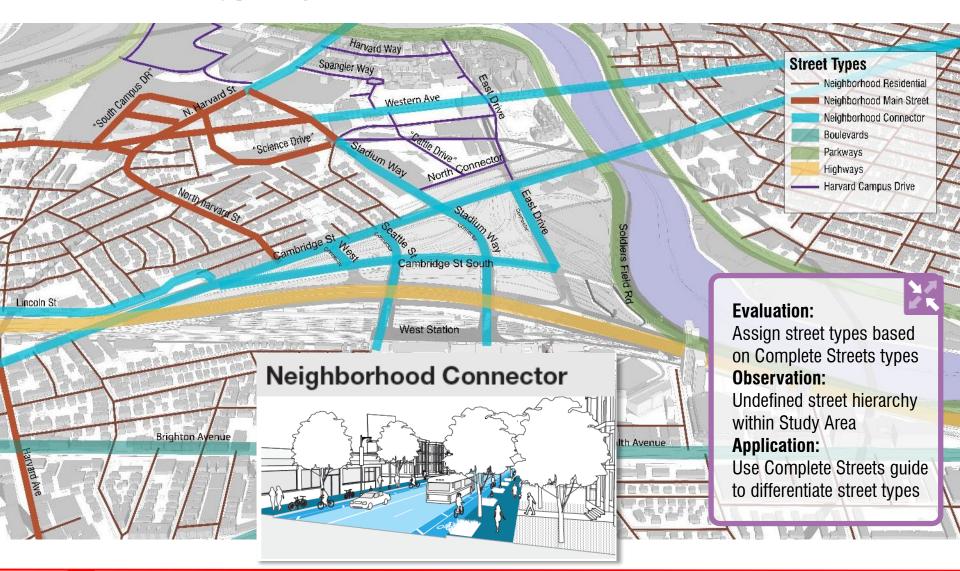
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Focus of Analysis

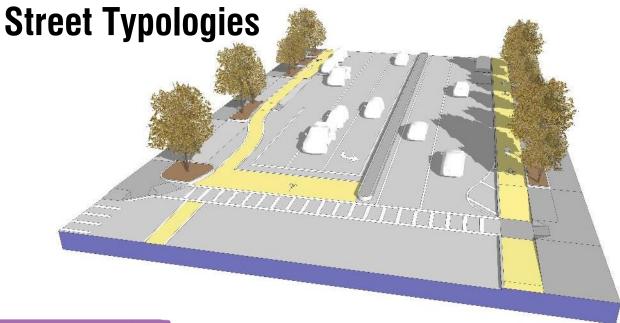
- Street types and characteristics
- Pedestrian circulation network
- Bicycle circulation network
- Transit network and access
- Vehicular circulation network

Mobility/Connectivity

Street Typologies







Evaluation:

Illustrate and clarify placemaking characteristics of proposed streets

Observation:

Undefined street hierarchy with similar street widths throughout district

Application:

Use Complete Streets guide to differentiate street types

Neighborhood Connector

Downtown Commercial Downtown Mixed-use Neighborhood Main Street Neighborhood Connector Neighborhood Residential

Proposed

Cambridge Street

Industrial Shared Stree Parkways



Street Type identifying Cambridge Street (Allston/Brighton) as example street **Composite Heat Map**

Edge and center of block structure provide choice/ connections for all modes

Study improvements to pedestrian environment and street width

Infrastructure edge is barrier to north-south connections (in plan and section)

Investigate alignments vehicular and/or transit connections/options

undifferentiate

Street hierarchy is undifferentiated and large in scale

Challenges

Variation and/or reduced scale should be investigated

SFR is visual and mental barrier to river access

Study opportunities for crossings and iconic features

Height above grade detracts from ped/bike experience

Investigate ways to enhance quality of crossing

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Development Potential/Flexibility

Principles

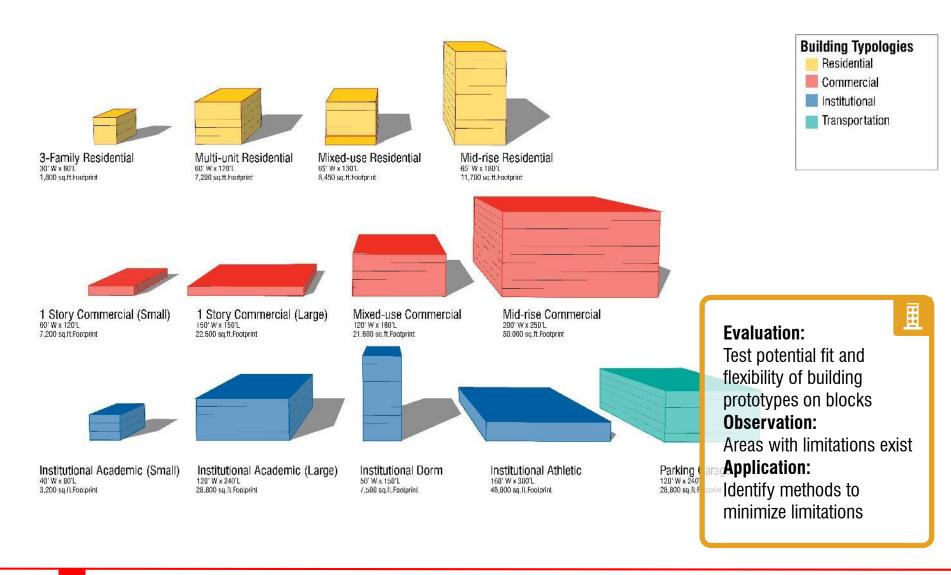
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- Integrate old and new with context-sensitive, compatible approach with transitions
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Focus of Analysis

- Building typologies and dimensions
- Block size/geometry
- Air rights block size/geometry
- Block access/flexibility
- Location desirability

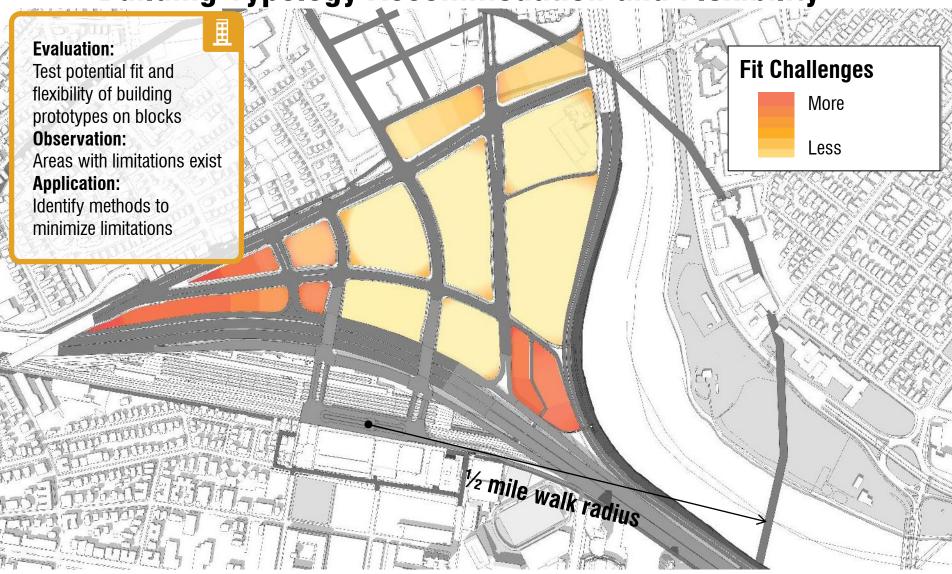


Building Typology Accommodation and Flexibility





Building Typology Accommodation and Flexibility





Development Potential/Flexibility

Composite Heat Map

Center of district is adaptable to many scales and types of development

Investigate how flexibility may benefit open space network and placemaking

Development potential is highly dependent on approach to air rights

Studies should include combining sliver parcels and air rights parcels



"Throat" condition limits development flexibility at corner

Study alternatives and air rights combinations in more detail



Principles and Focus

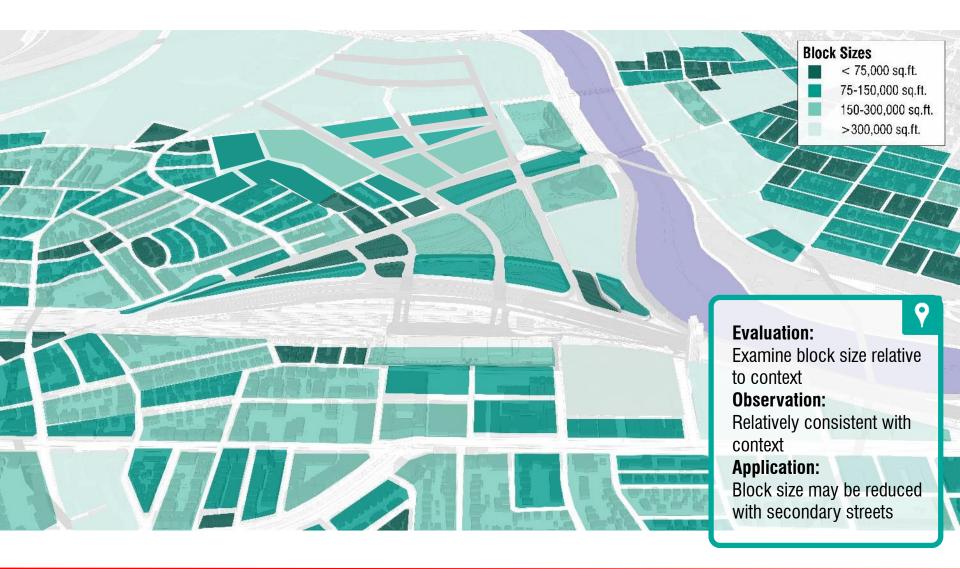
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Focus of Analysis

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- Elevation of roadways

Distinctive Place/Context Sensitive

Distinct Placemaking Components in Context



9

Distinctive Place/Context Sensitive

Composite Heat Map

The center of district and neighborhood edge have few constraints to creating distinctive places

Number, type and distribution of landmarks or places to be studied

Placemaking will be constrained by the special conditions imposed by the transportation infrastructure

Identify elements of successful models of development

West Station provides a key opportunity to define a significant place in the district

Highlight techniques to take advantage of this

Flexibility for integration with Enterprise Research Campus

Explore elements of transition

Street hierarchy is more undifferentiated and large in scale

Variation and/or reduced scale should be investigated

The district corner is highly constrained by the infrastructure and shape of available land

Study alternatives relative to improvement of this riverfront parcel



Principles

- Enhance the ability for energy efficient and sustainable district design
- Anticipate climate change, sea-level rise and infrastructure needs

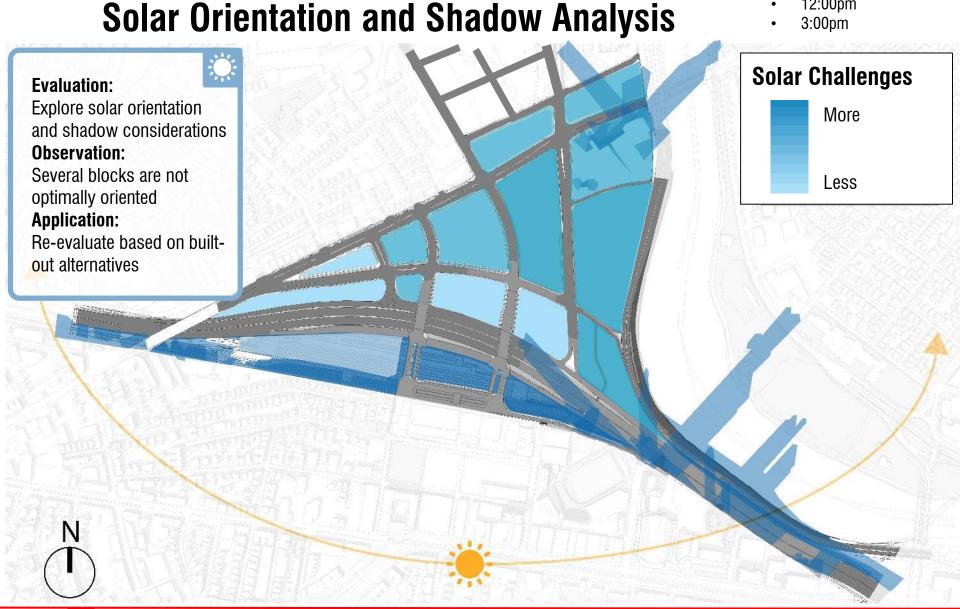
Focus of Analysis

- Utilities and district-wide infrastructure
- Solar orientation, shadow
- Resiliency/flood considerations



12/21 Composite of:

- 9:00am
- 12:00pm
- 3:00pm



Composite Heat Map

Limited challenges, but may have solar impacts on adjacencies

Assessment of district energy options should be undertaken

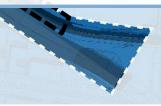
Underlying infrastructure places limitations on utility/sustainability options

Explore open space network as functional contributor to infrastructure



Most challenges occur near river – shade/ solar and sea-level rise

Explore impacts relative to development and open space





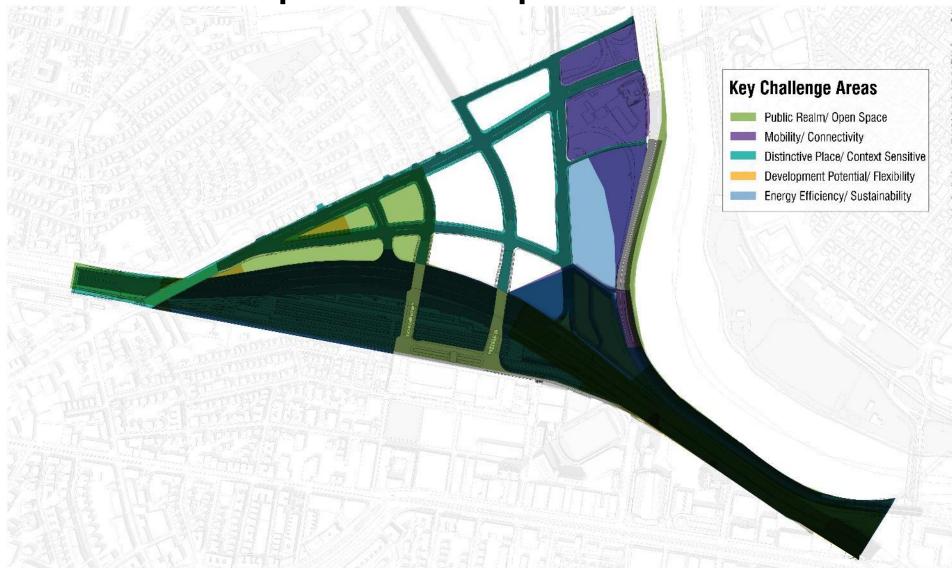








♥ **II Q X © Overall Composite "Heat Map"**





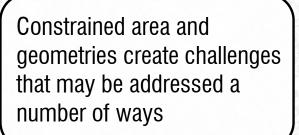








Overall Composite "Heat Map"



Key Challenge Areas

Public Realm/ Open Space

Mobility/ Connectivity

Distinctive Place/ Context Sensitive

Development Potential/ Flexibility

Energy Efficiency/ Sustainability

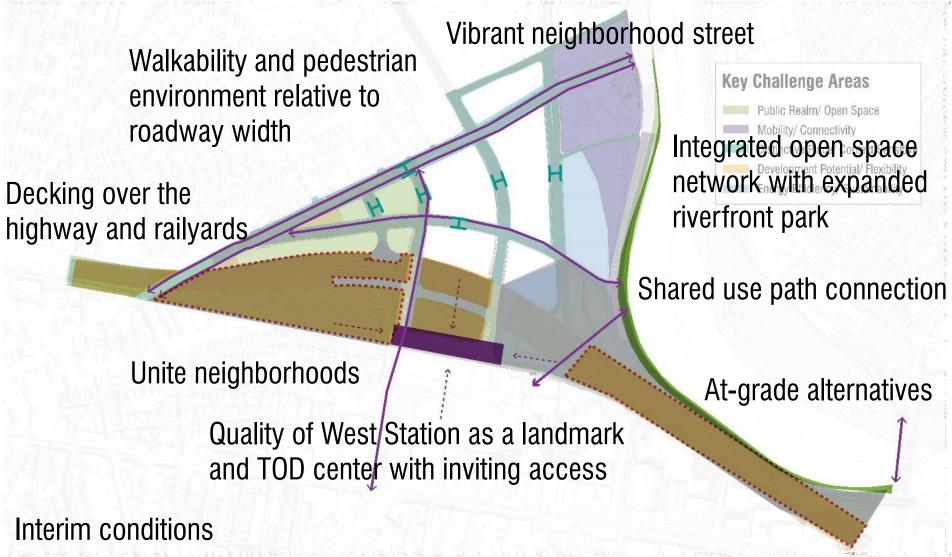
Transportation, infrastructure considerations, and SFR create challenges that may be addressed a number of ways

Significant challenges exist to integrate infrastructure areas into a "place" challenges will likely remain at southern edge, West Station connection provides opportunity for integration

Center of district provides wide range of flexible placemaking opportunities



Key Community Issues Overlay



I-90 Allston Interchange Placemaking Study

Next Steps

- Creation and testing of alternative build-out scenarios
- Analysis of multi-modal systems and connections to transit
- Presentation at January or February Task Force Meeting
- Creation of long term planning framework diagrams

I-90 Allston Interchange Placemaking Study

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- Define placemaking and its role in this process
- Share the methodology we are undertaking
- Describe the anticipated outcome of the work
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