# Central Artery Ramp Parcels Cover Study

**Public Meeting #2** 

September 30, 2014

Consultants: HDR Engineering, Inc. Utile, Inc.

# Introductions

# Who We Are

### MassDOT

John Romano, Legislative Affairs William Tuttle, Director of Projects

### **Boston Redevelopment** Authority

Lauren Shurtleff, Senior Planner Lara Merida, Deputy Director for Community Planning

### **Consultant Team**

HDR Engineering, Inc. Roch Larochelle, P.E., Project Manager

**Utile, Inc.** Matthew Littell, Principal Central Artery Ramp Parcels Cover Study

# Agenda

- I. Introductions
- II. Purpose of the Study Why are we here
- **III.** Overview of Sites

#### IV. General Design Elements – per parcel

- a. Tunnel & Ramp Configurations
- b. Underground Utilities
- c. Structural Design Considerations

#### V. Urban Design Analysis

- a. Connectivity along the Greenway
- b. Greenway Cross-connections

#### VI. Addressing Individual Ramp Parcels (18, 12 & 6)

- a. Overall Character & Current Parcel Uses
- b. Circulation, Active Edges & Desire Lines
- c. Cover Options
- d. Potential View Corridors

#### **VII.** Discussion

VIII.Next Meetings – Wednesday, October 29th & Thursday, January 8th

# **Purpose of the Study**

# What we're trying to accomplish

MassDOT environmental commitment is about visual and aesthetic impacts. <u>Not</u> about noise or air quality – the CA/T meets all noise and air quality standards without covers.



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#### Purpose of Study

# What we need to do to define "cover."

The commitment is about visual and aesthetic impacts. Not about noise or air quality – the CA/T meets all noise and air quality standards without covers.

**Original permit for CA/T Project was for buildings** atop the ramps on Parcels 6 and 12 and open space on Parcel 18.

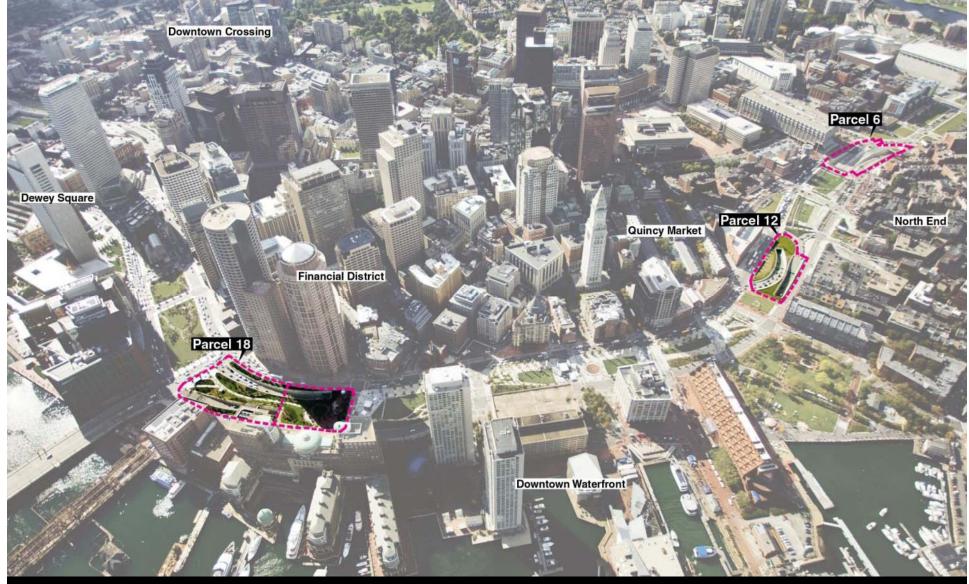
Now to provide "cover," MassDOT needs to **propose how to cover the ramp parcels.** This process—with MassDOT, the BRA, and the community—will determine the approach.

The goal is to submit **Notice of Project Change** to MEPA and receive approval for all three ramp parcels, and **complete Parcel 12 cover by November 2017**.



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#### Purpose of the Study Location of the Ramp Parcels



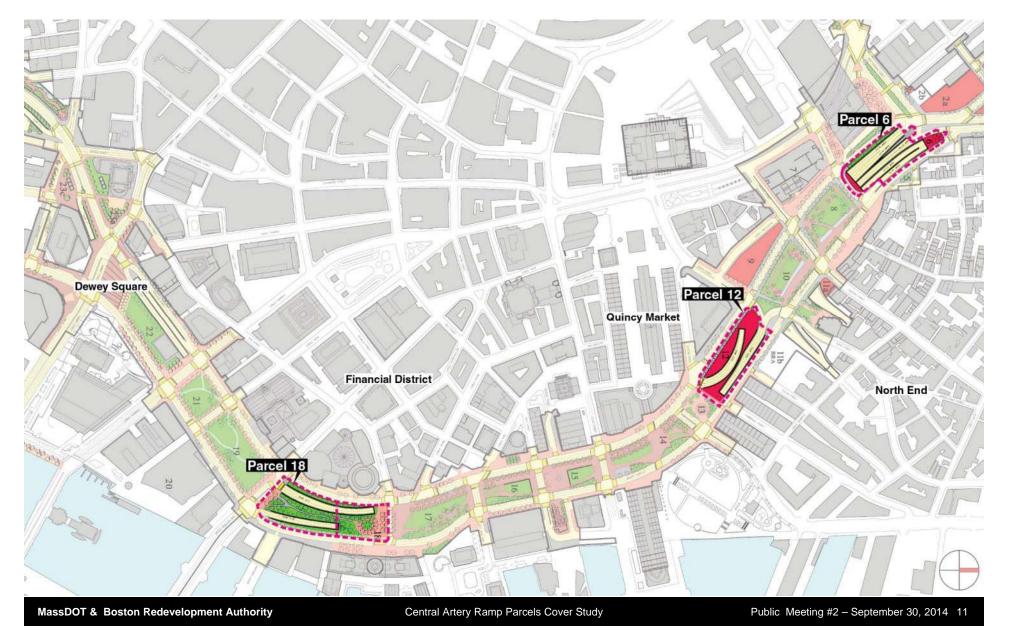
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# **Zoning** Article 49, Central Artery Special District

			Dimensional Restrictions		
		Use	Height	Lot Coverage	FAR
Parcel 6		Recreation Open Space (OS- RC) Subdistrict, Community Uses	55 feet Above the top of the ramp structure	-	4
Parcel 12		Residential Uses, Community Uses, Cultural Uses, and Local Retail/Service Uses	55 feet	-	4
Parcel 18	Parcel 18N	Urban Plaza Open Space (OS-UP) Subdistrict, Seasona and Festival Uses, Cultural Uses, and Restaurant Uses	35 feet	Max. Lot Coverage: 15% Max. building footprint for any individual buildings: 1,200 square feet	FAR shall be determined by the lot coverage and height restrictions
	Parcel 18S	Parkland Open Space (OS- P) Subdistrict, Arboretum, Community Uses, and Restaurant Uses.	35 feet Building height shall be mea- sured from grade unless the building is located on a raised landscaped terrace, in which case the building shall be measured from the terrace.	individual buildings: 6,000 square feet	

# **Overview of Sites**

#### Overview of Sites Location of the Ramp Parcels



Overview of the Sites

### Parcel 18



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Overview of the Sites

### Parcel 12



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#### Overview of the Sites

## Parcel 6



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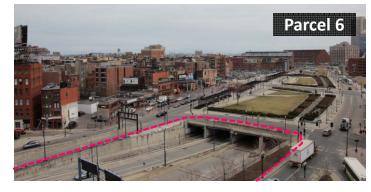
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# **Key Considerations During Design**







- Article 49 Zoning / Allowable Uses
- Pedestrian Access & Connectivity
- Vertical Clearances (14'-6")
- Air Quality, Lighting, Ventilation
- View Corridor Locations
- Location of Major Utility Corridors, Service Connections & Access
- Allowable Loading over Existing Tunnels & Ramps
- Drainage of Proposed Sites
- Sight Distance along Ramps
- Signing/IPCS System
- Resiliency Planning
- Economic Sustainability

Future Discussion Topics

# Surface Artery Configuration - Parcel 18

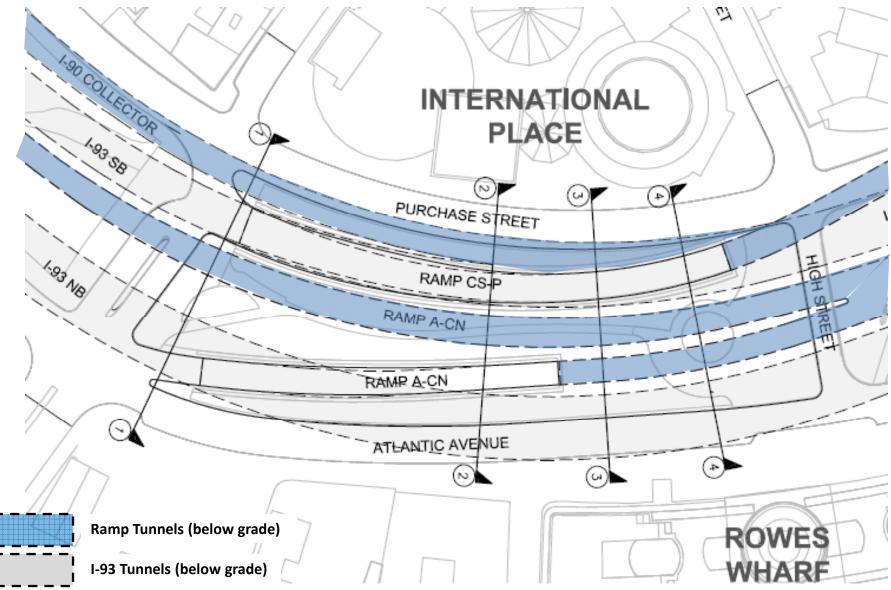


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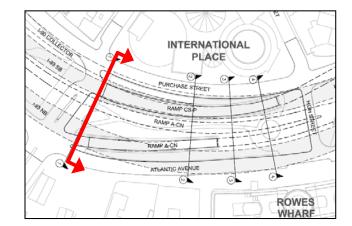
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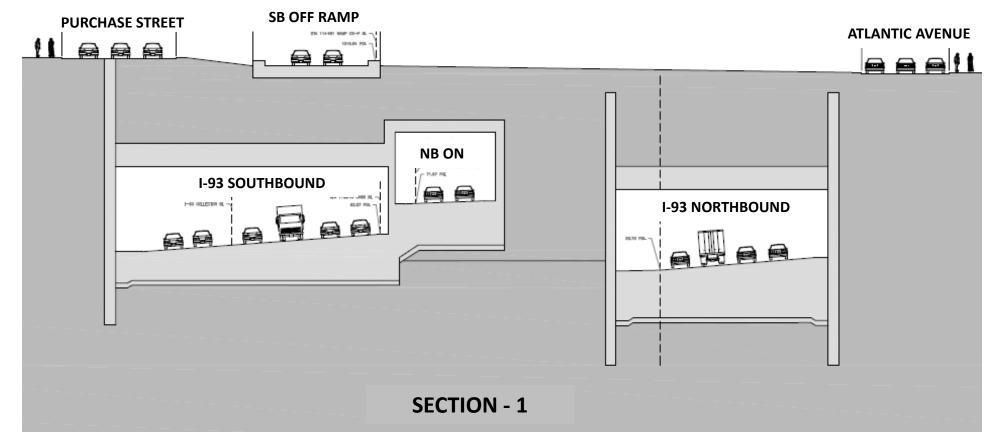
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# **Tunnel & Ramp Configuration -** *Parcel* 18

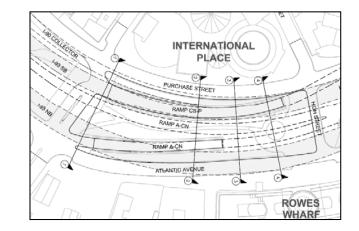


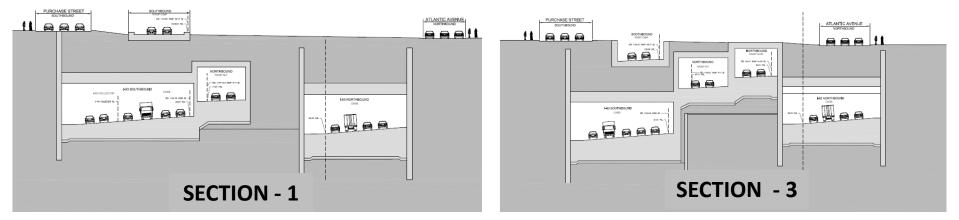
### **Tunnel Sections** – Parcel 18

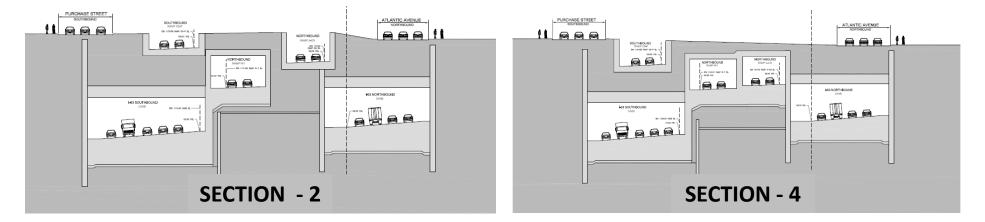




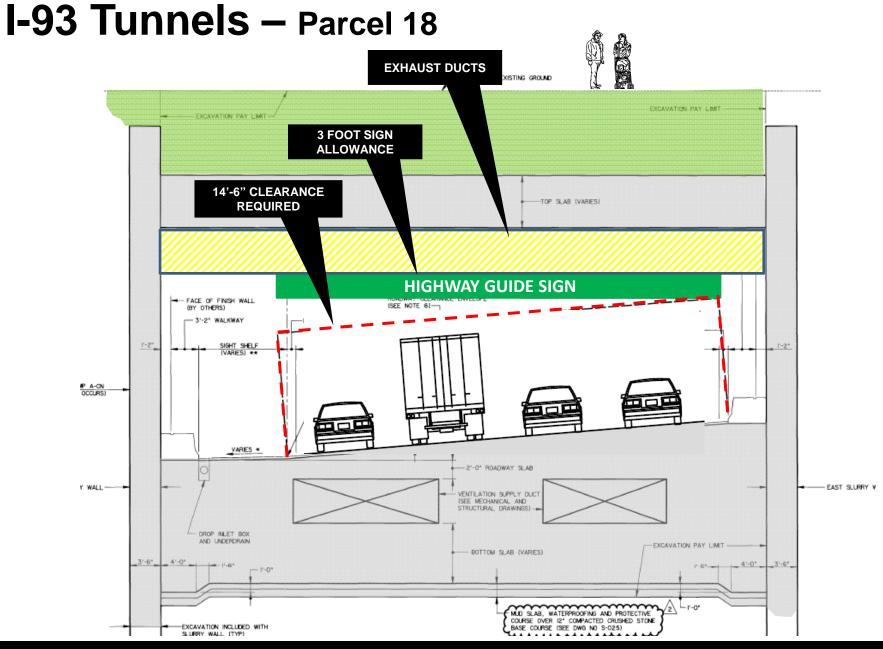
### **Tunnel Sections – Parcel 18**



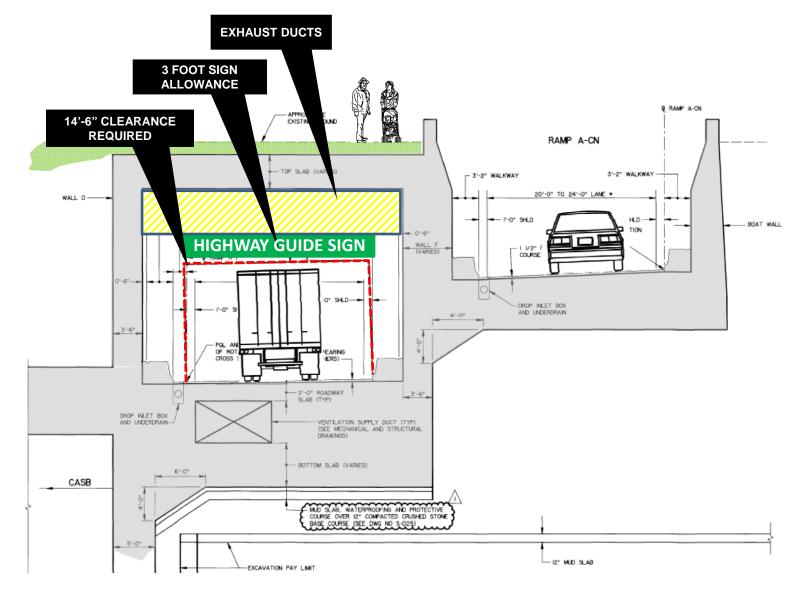




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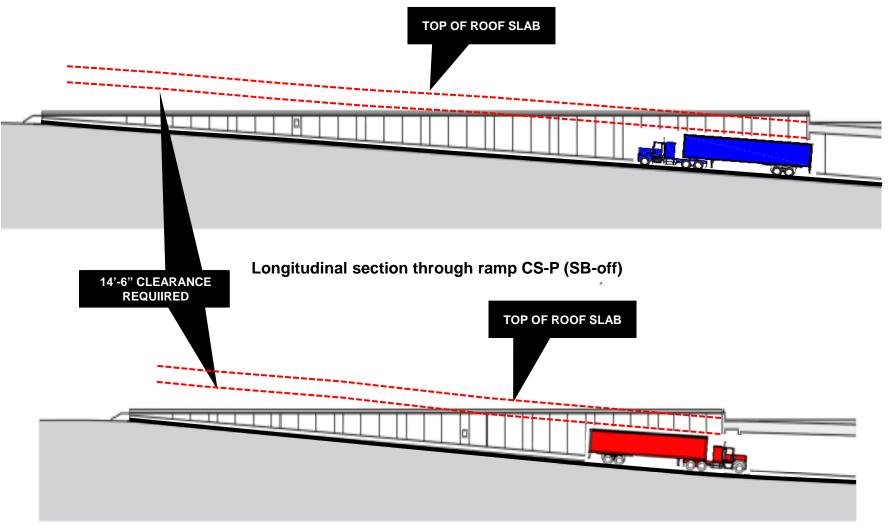


### **Typical Ramps –** Parcel 18



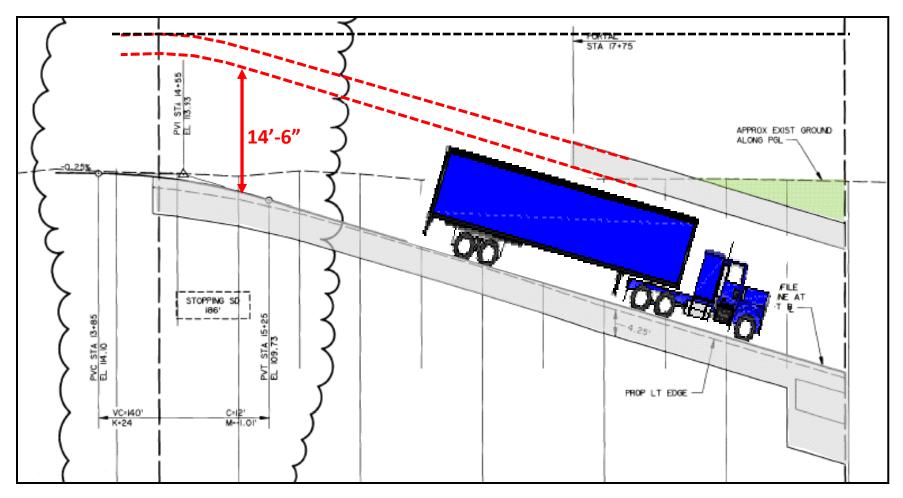
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# Ramp Tunnel Profiles – Parcel 18



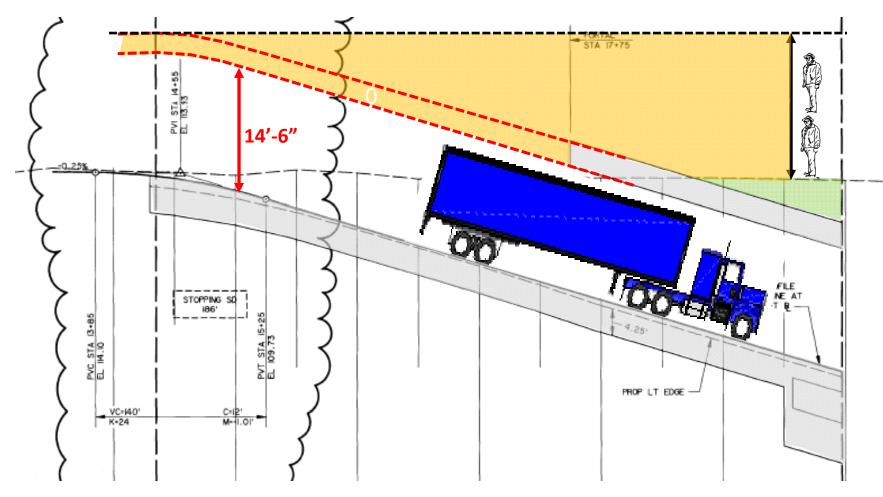
Longitudinal section through ramp A-CN (NB-on)

## Ramp Tunnel Profiles – Parcel 18



Longitudinal section through ramp A-CN (NB-on)

## Ramp Tunnel Profiles – Parcel 18



Longitudinal section through ramp A-CN (NB-on)

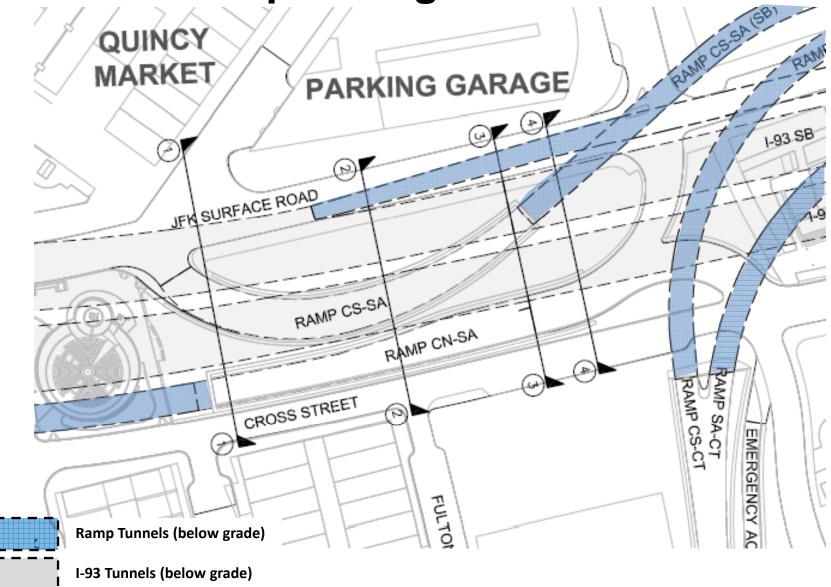
## Surface Artery Configuration - Parcel 12

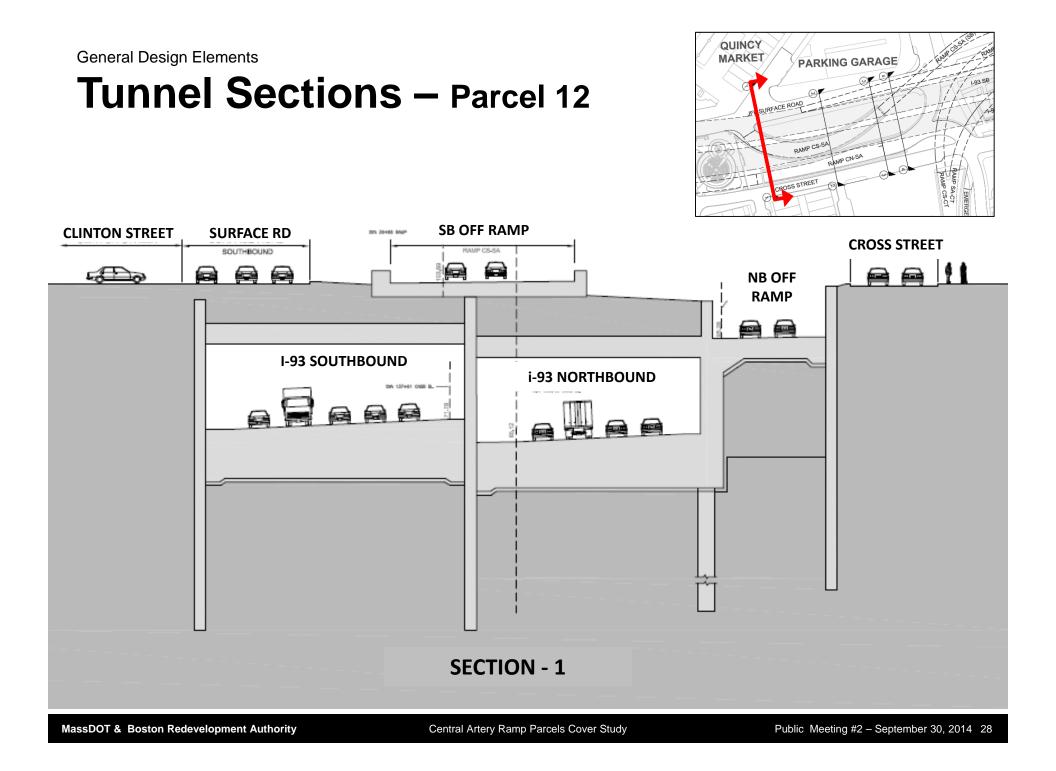


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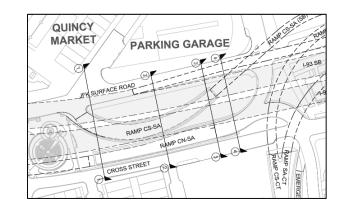
**General Design Elements** 

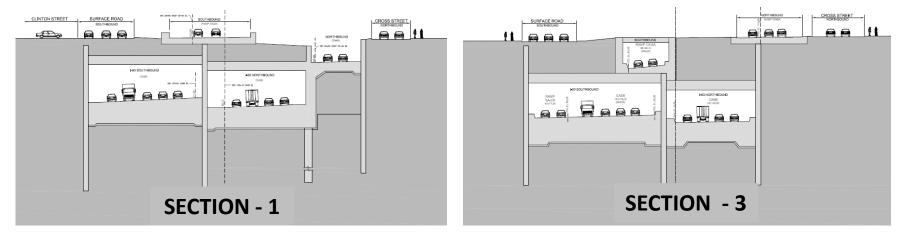
# Tunnel & Ramp Configuration - Parcel 12

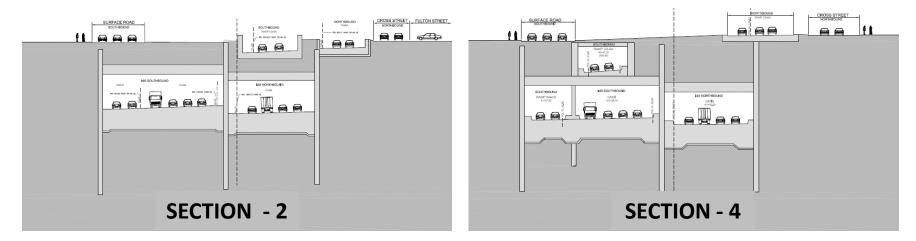




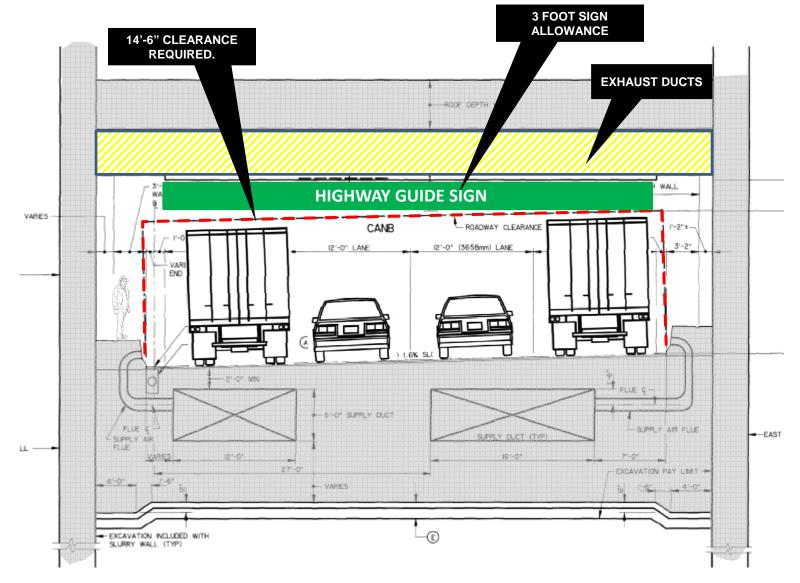
### **Tunnel Sections –** Parcel 12



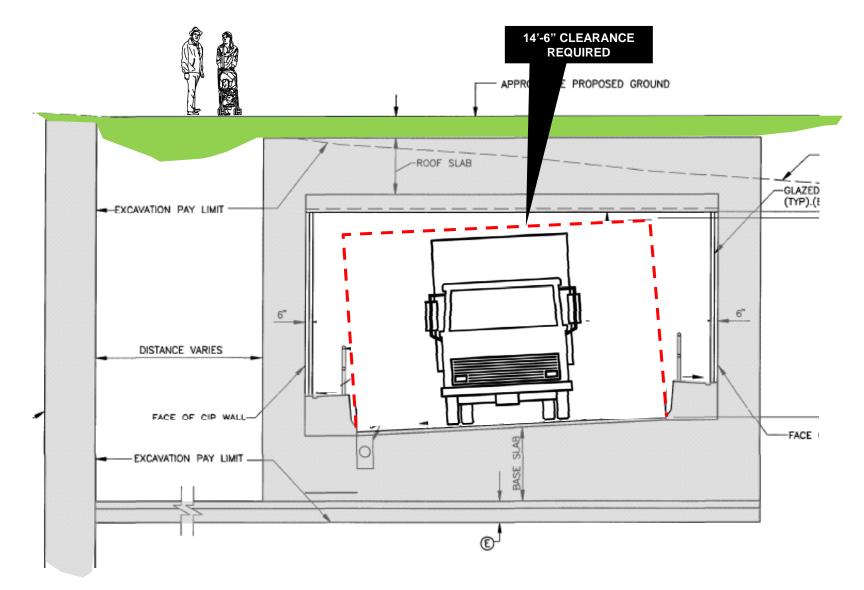




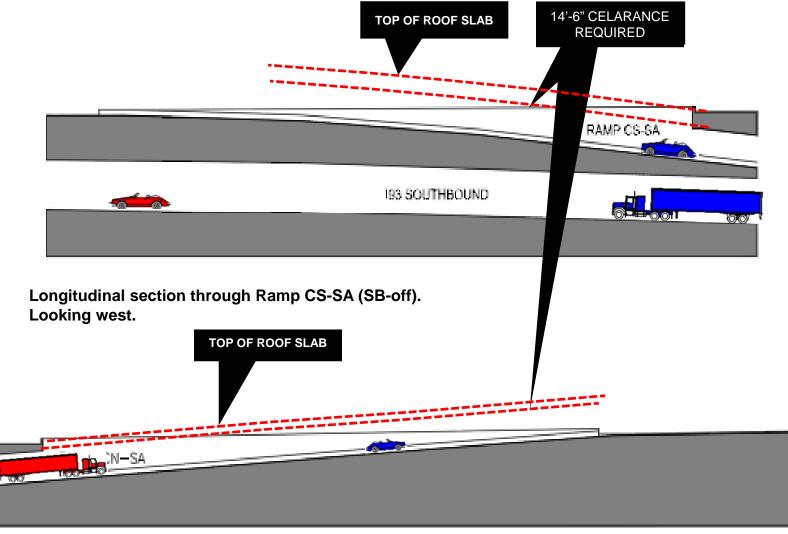
### I-93 Tunnels – Parcel 12



# **Typical Ramps –** Parcel 12



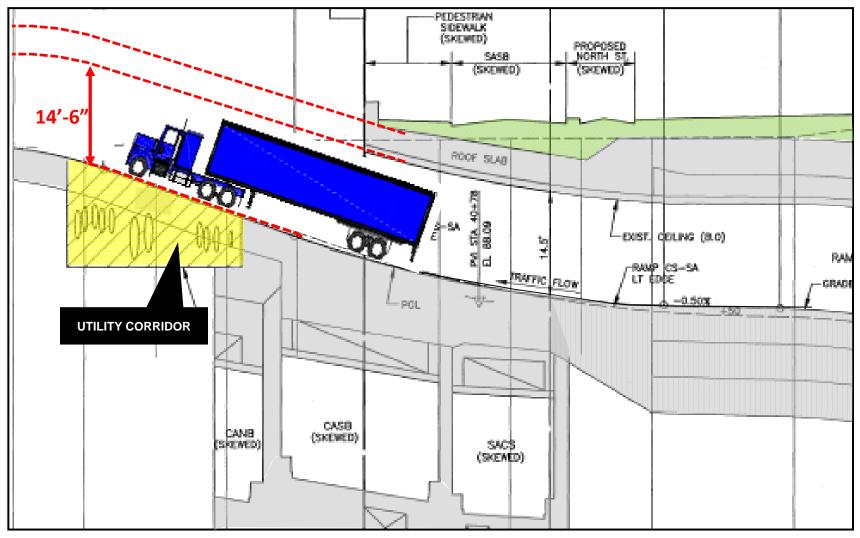
# Ramp Tunnel Profiles – Parcel 12



Longitudinal section through Ramp CN-SA (NB-off). Looking east.

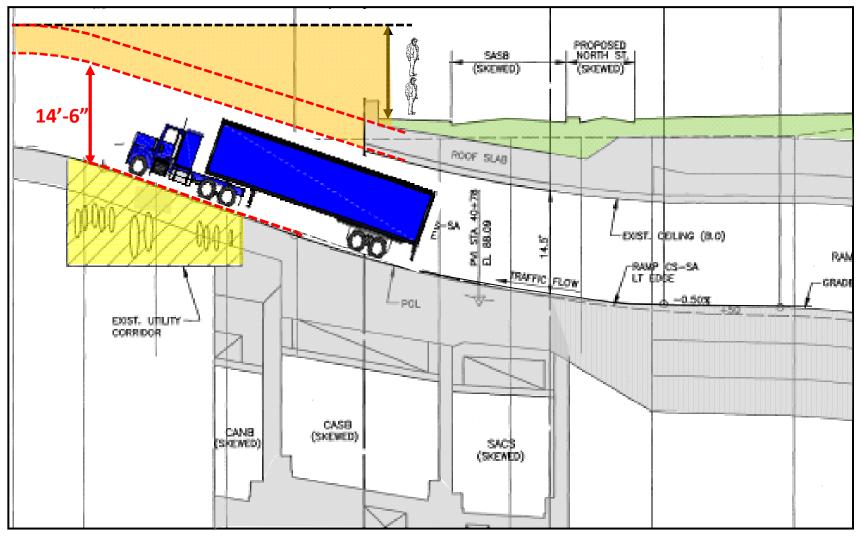
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## Ramp Tunnel Profiles – Parcel 12



Longitudinal section through Ramp CS-SA (SB-off) Looking west.

## Ramp Tunnel Profiles – Parcel 12

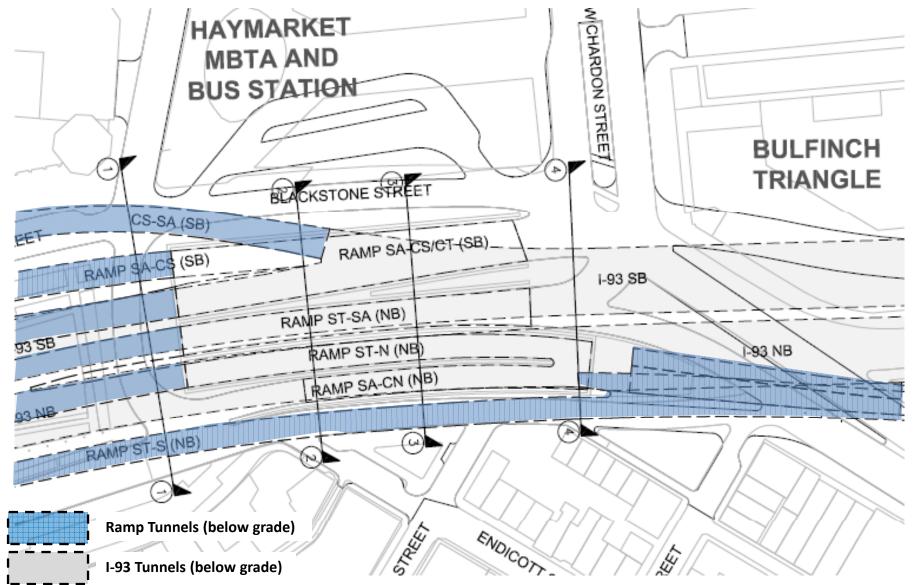


Longitudinal section through Ramp CS-SA (SB-off) Looking west.

# General Design Elements Surface Artery Configuration - Parcel 6

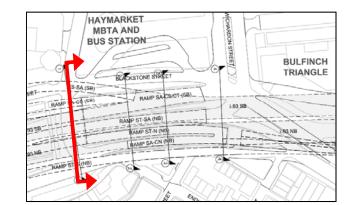


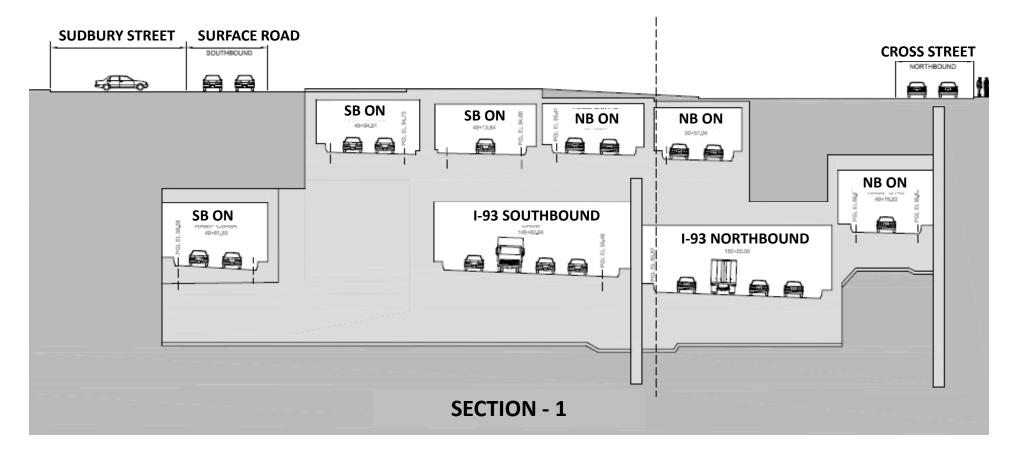
# **Tunnel & Ramp Configuration - Parcel 6**



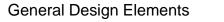
**General Design Elements** 

## **Tunnel Sections –** Parcel 6

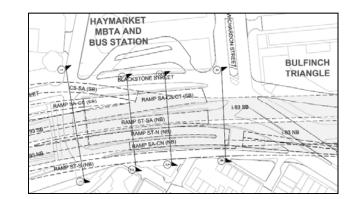


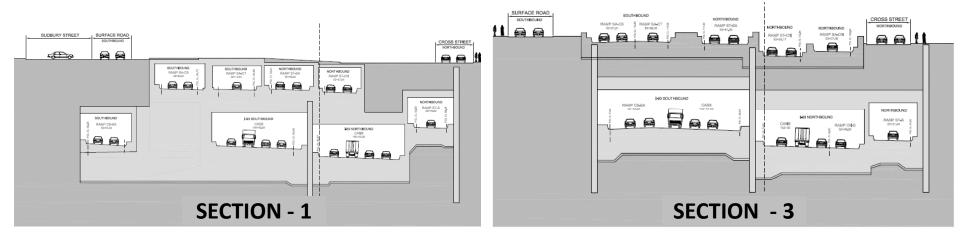


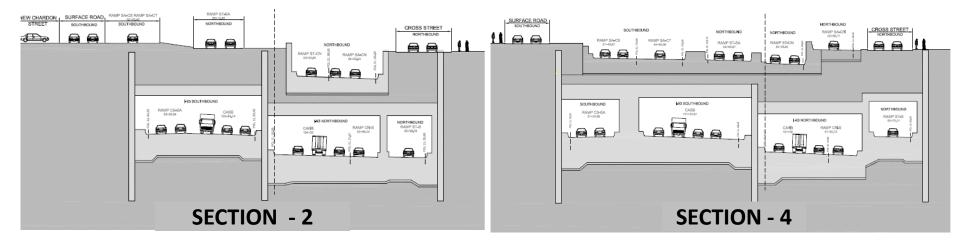
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## **Tunnel Sections** – Parcel 6

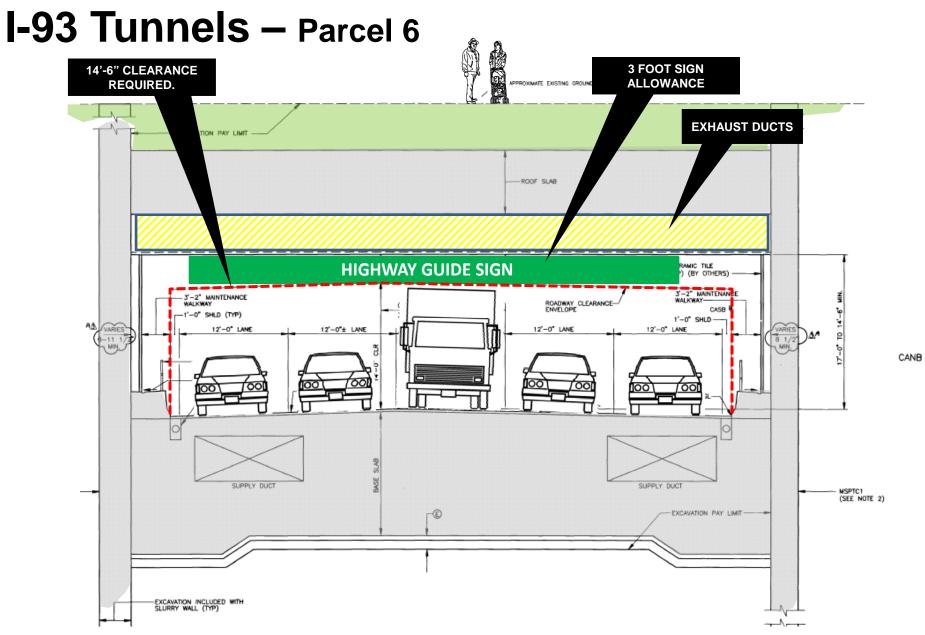






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**General Design Elements** 

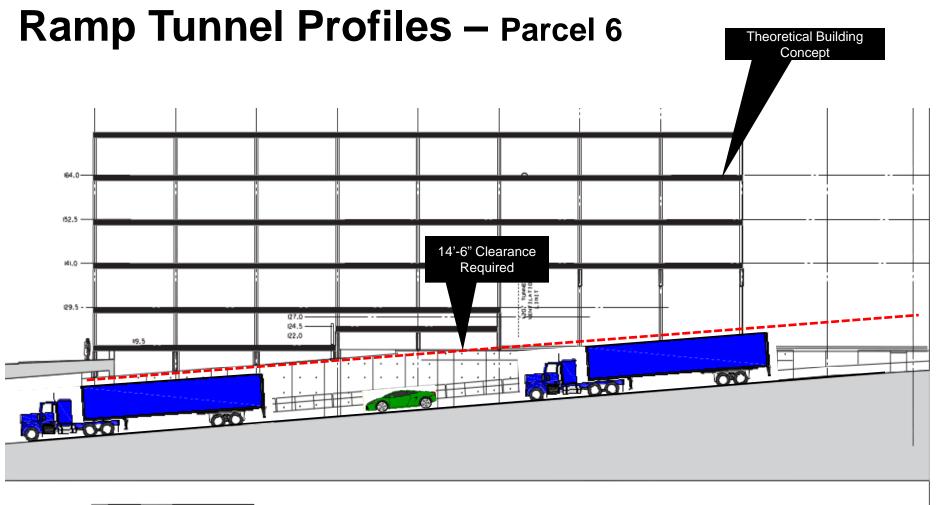


#### **General Design Elements Typical Ramps –** Parcel 6 14'-6" CLEARANCE REQUIRED. -ROOF SLAB SUSPENDED CEILING (BY OTHERS) EXCAVATION PAY LIMIT MAINTENANCE WALKWAY ١. SIGHT SHELF (VARIES) JET · 3'-2" MAINTEN CLEARANCE FAN (BY OTHERS) 1'-0" SHLD RAMP ST-SA RAMP ST-CN B -1'-0" SHLD GORE AREA VARIES TO 20'-0" MAX. 6" 6' 0 TO 10 ± -RAILING 3"--( (BY OTHERS) RAMP ST-CN JET : FAN (BY OTHERS) /FT (T YP) (BY OTHERS)--© 1/8\*/FT (TYP) SLOPE VARES PGL-CIP WALL BEGIN AT ST-SA STA, 49+904-DRAIN INLET BOX-

CASB

CANB





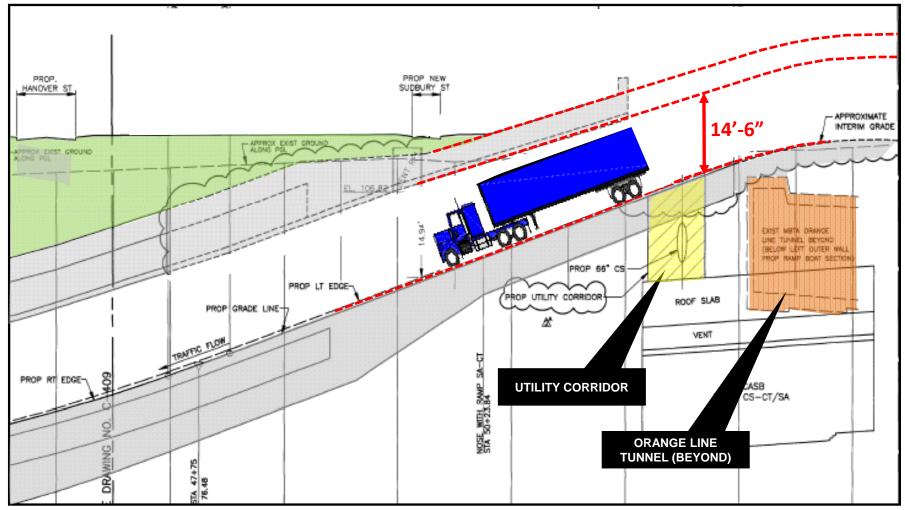
### Longitudinal Section through Ramp SA-CS (SC), looking west.

(With theoretical 5-story building concept)

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**General Design Elements** 

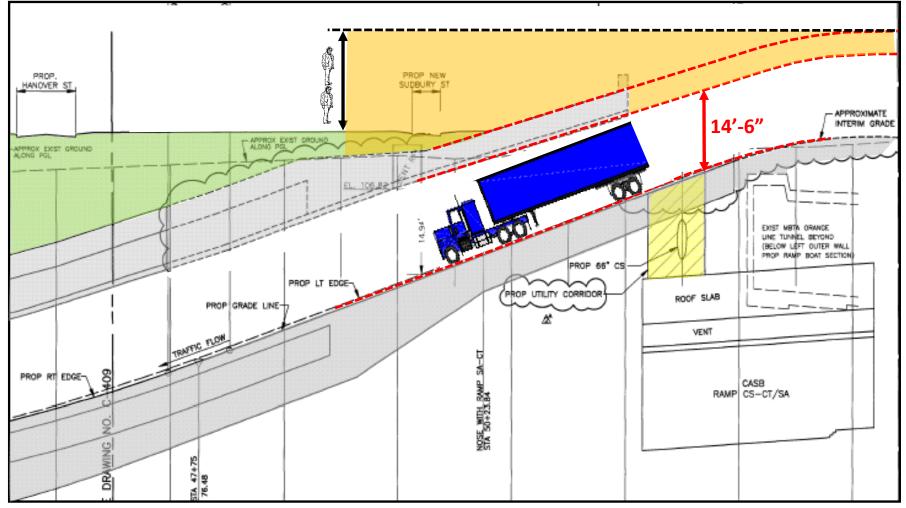
## **Ramp Tunnel Profiles –** Parcel 6



Longitudinal Section through Ramp SA-CS (SC), looking west.

**General Design Elements** 

## **Ramp Tunnel Profiles –** Parcel 6

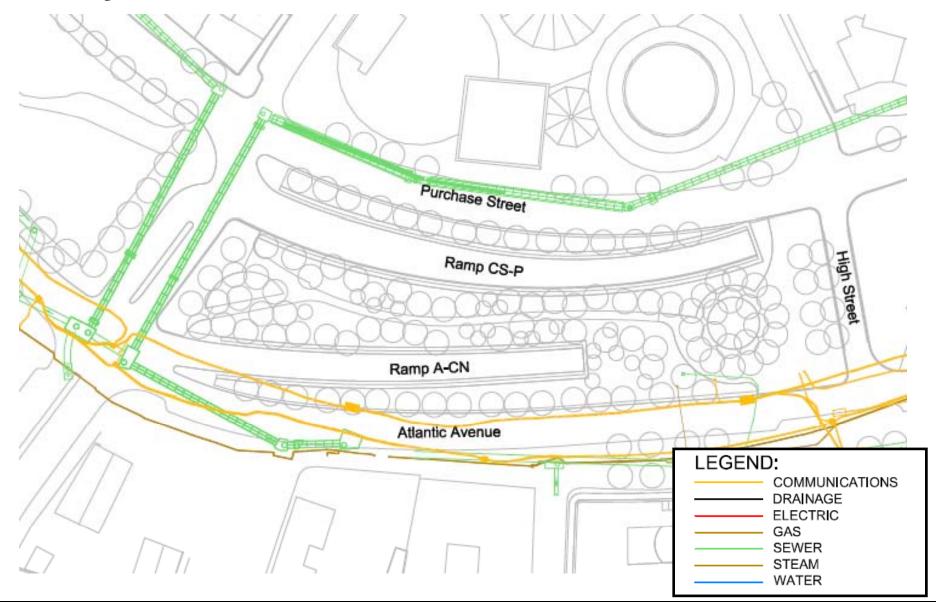


Longitudinal Section through Ramp SA-CS (SC), looking west.

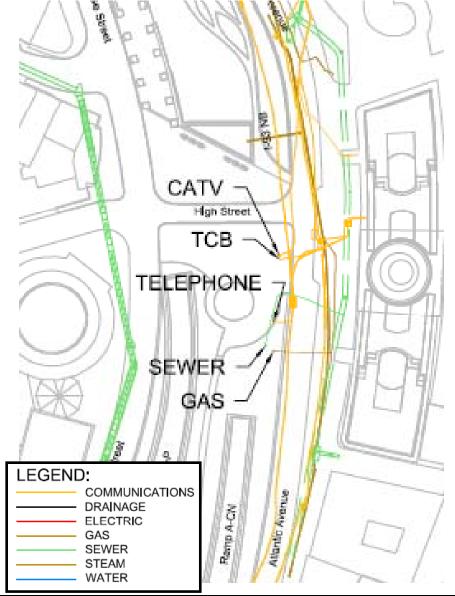
**General Design Elements** 

# **Underground Utilities**

# Utility Corridors – Parcel 18



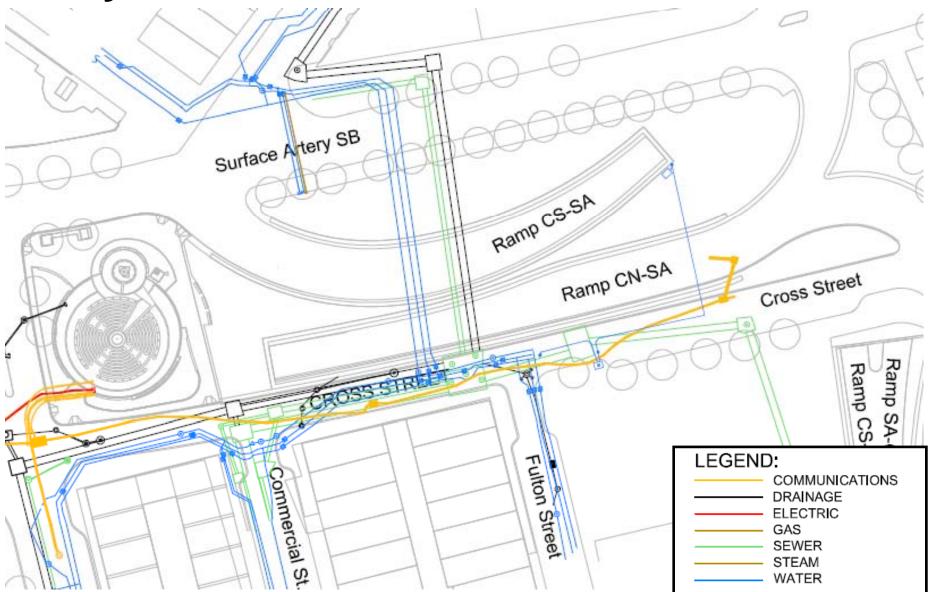
# Utility Service Connections – Parcel 18



Utility	Description	Remark
Drainage	N/A	No stub provided.
Electric	N/A	No stub provided.
Gas	4"	Gas stub located under NE area of the parcel, along Atlantic Ave.
Sanitary Sewer	8" DIP	Capped in NE corner of parcel adjacent to Atlantic Ave.
Telecomm.	2-4" CATV	Ducts capped under NE area of the site.
	2-4" TCB	Ducts capped under NE area of the site.
	2-4" TE	Ducts capped under NE area of the site.
Water	N/A	No stub provided.

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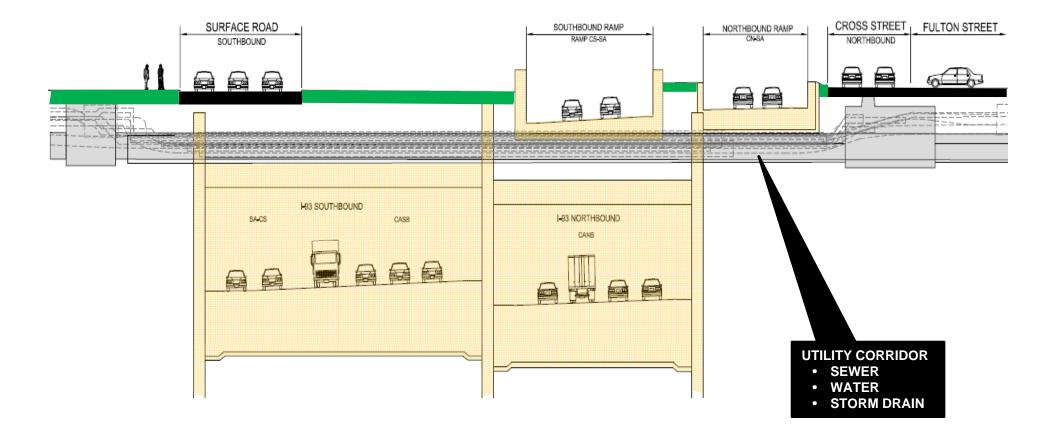
# Utility Corridors – Parcel 12



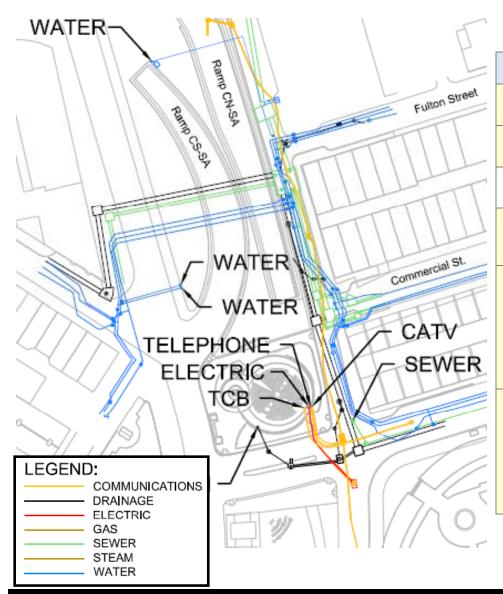
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### Underground Utilities Utility Corridors – Parcel 12

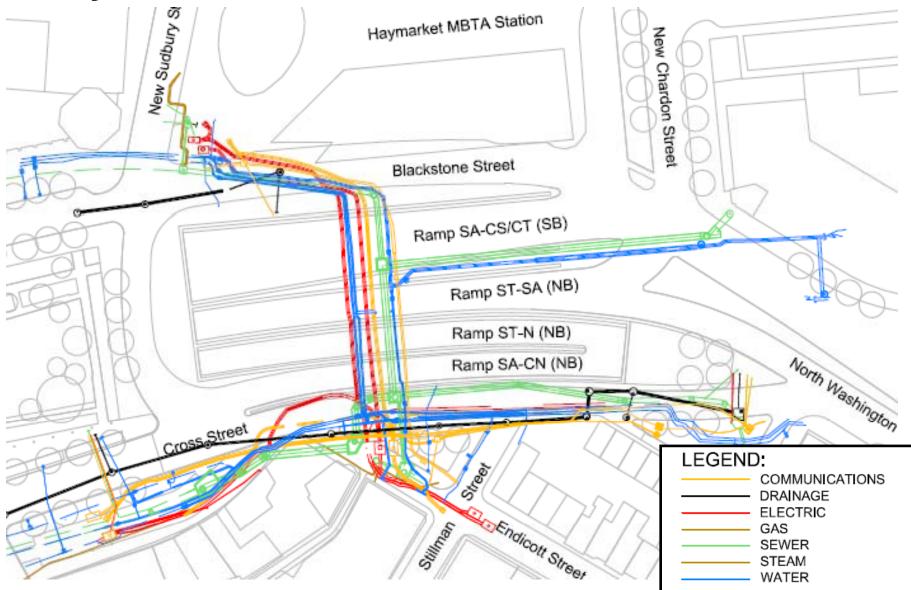


# Underground Utilities Utility Service Connections – Parcel 12

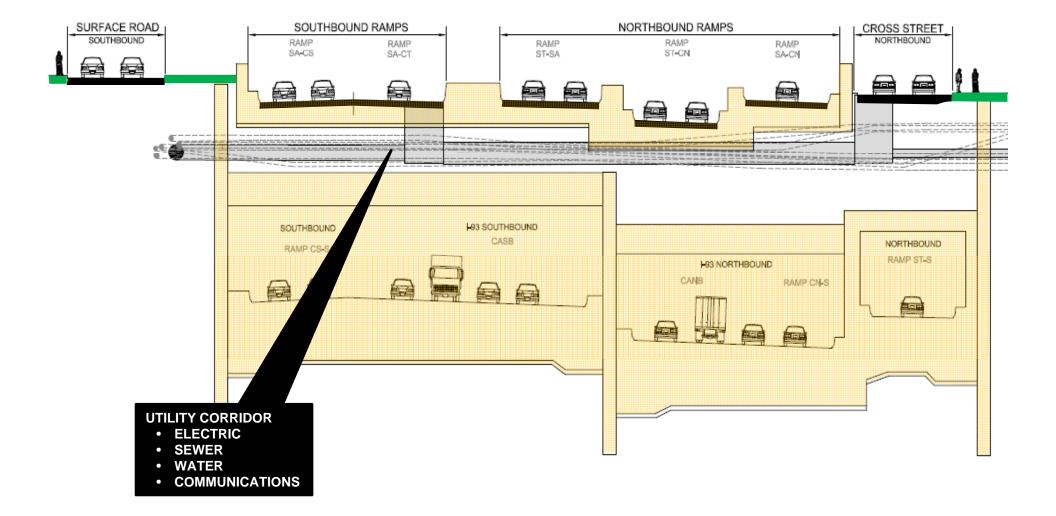


Utility	Description	Remark	
Drainage	15" RCP	Capped at the southern end of the parcel.	
Electric	8-5" ducts	Capped ducts provided under SE corner of parcel.	
Gas	N/A	No stub provided.	
Sanitary Sewer	10" PVC	Stubbed for future use under Atlantic Ave./Cross St.	
Telecomm	2-4" CATV	Ducts capped under SE area of the site.	
	2-4" TCB	Ducts capped under SE area of the site.	
	2-4" TE	Ducts capped under SE area of the site.	
Water	8" HS	Capped for future use on west side of parcel.	
	8" LS	Capped for future use on west side of parcel.	
	4" LS	For irrigation	

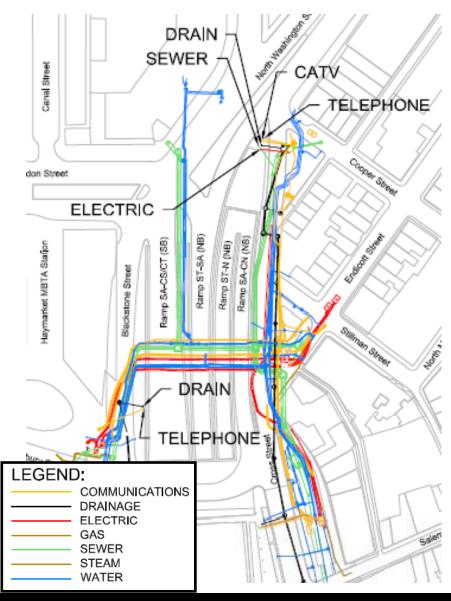
## **Utility Corridors - Parcel 6**



# Underground Utilities Utility Corridors - Parcel 6



# **Utility Service Connections - Parcel 6**



Utility	Description	Remark
Drainage	16" DIP	Located on the west side of the parcel adjacent to Blackstone Street.
	6" SD	Capped under the NE corner of the site
Electric	2-5" ducts	Capped under the NE corner of the site.
Gas	N/A	No stub provided.
Sanitary Sewer	6" SS	Capped under the NE corner of the site.
Telecomm.	2-4" CATV	Ducts capped under NE area of the site.
	2-4" TE	Ducts capped under NE area of the site.
	2-4" TE	Ducts capped under NE area of the site.
Water	N/A	No stub provided.

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**General Design Elements** 

# **Structural Design Considerations**

# **Design Phase Studies**

**Prototype Study (1990):** 

**Defined Needed Analysis to Support Building Development** 

Base Case Study (1990):

Defined allowable Building Loads (with no tunnel modifications)

**1991 Joint Development Parcel Study:** 

Defined Structural Modifications & Costs to support allowable Building Types

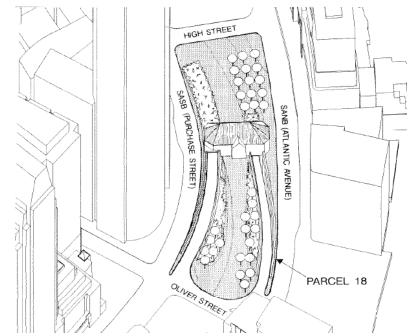
Parcel 6 Cover Study (1998):

Defined Specific Building and Cover Loading Conditions for potential Parcel 6 Developments

### Parcel Development-Design Accommodations Parcel 18

- Parcel Area: 85,000 SF +/-
- Joint Development Study: Assumed 2-story pavilion with partial cover planned (35'h max/1200 sf)
- Assumed loading on Tunnel walls (line loads) and ceilings (distributed loads)
- Allowable Tunnel Cover Limits:

Parcel 18 Ramp	Descr.	Allowable Cover
A-CN	NB-on	Not Studied
CS-P	SB-off	40'



1991 Joint Development Parcel Study



<sup>2003</sup> RFQ - Center For the Arts

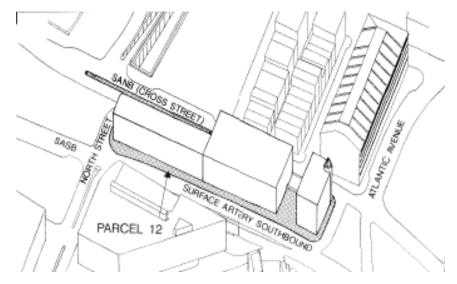
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## Parcel Development-Design Accommodations Parcel 12

- Parcel Area: 51,000 SF +/- (FAR 4)
- Joint Development Study: Assumed 5story building (55'h max/258k gsf)
- Assumed loading on Tunnel walls (line loads) and ceilings (distributed loads)
- SB off-ramp walls not designed to accept building loads (next slide)
- Access to Utility corridor required.
- Allowable Tunnel Cover Limits:

Parcel 12 Ramp	Descr.	Allowable Cover
CS-SA	SB-off	300'
CN-SA	NB-off	360' *

\*Ventilation Modifications May be Required.

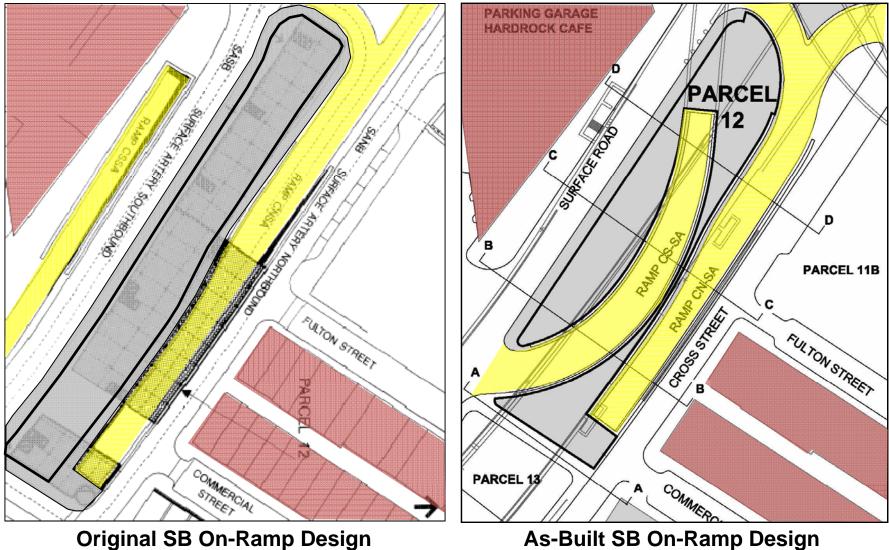


1991 Joint Development Parcel Study



2004 RFQ - Boston Museum

### **Parcel Development-Design Accommodations – Parcel 12**



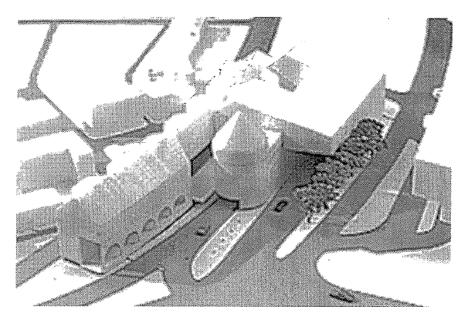
### **Original SB On-Ramp Design**

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## Parcel Development-Design Accommodations Parcel 6

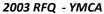
- Parcel Area: 40,000 SF +/- (FAR 4)
- Parcel 6 Cover Study: Redesigned for total 5-story building (55'h max/140k gsf)
- Assumed loading on Tunnel walls
- Allowable Tunnel Cover Limits:

Parcel 6 Ramp	Descr.	Allowable Cover
SA-CN	NB-on	75'
ST-CN	NB Thru (Sumner)	Entire Ramp
ST-SA	NB-off (Sumner)	265'
SA-CS/CT	SB-on (Callahan)	120'



1998 Parcel 6 Cover Study

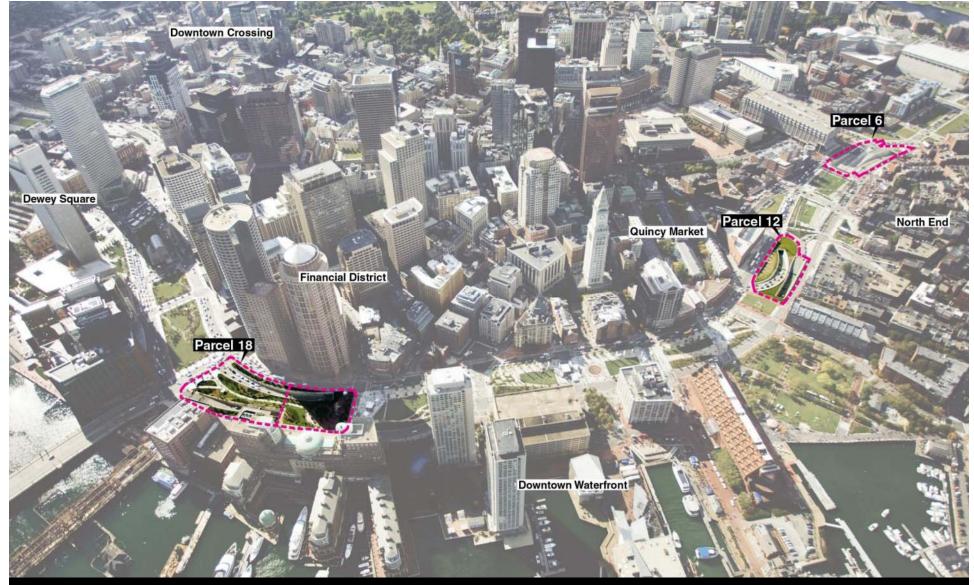




Central Artery Ramp Parcels Cover Study

# **Urban Design Analysis**

# Addressing the Ramp Parcels

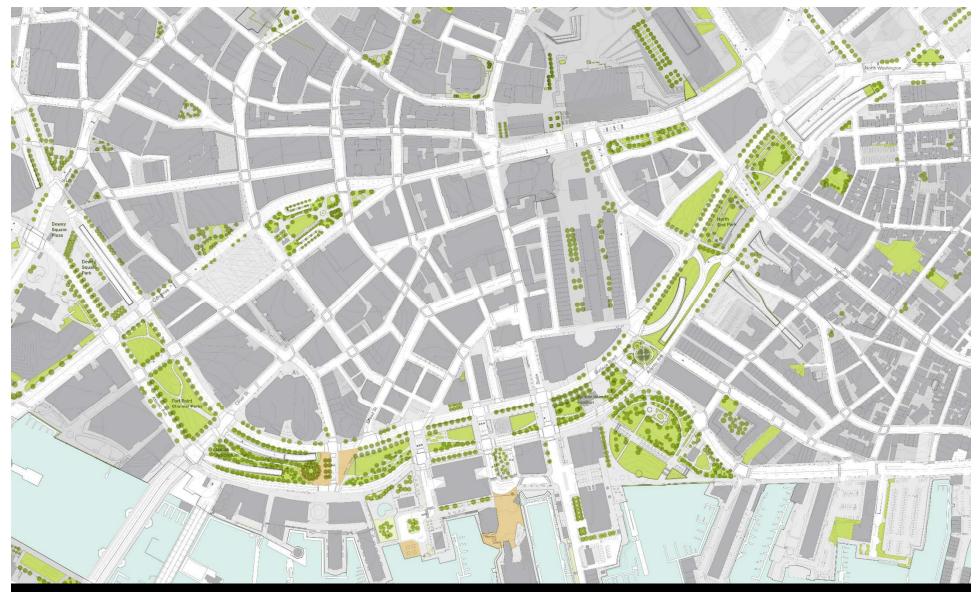


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# Addressing the Ramp Parcels

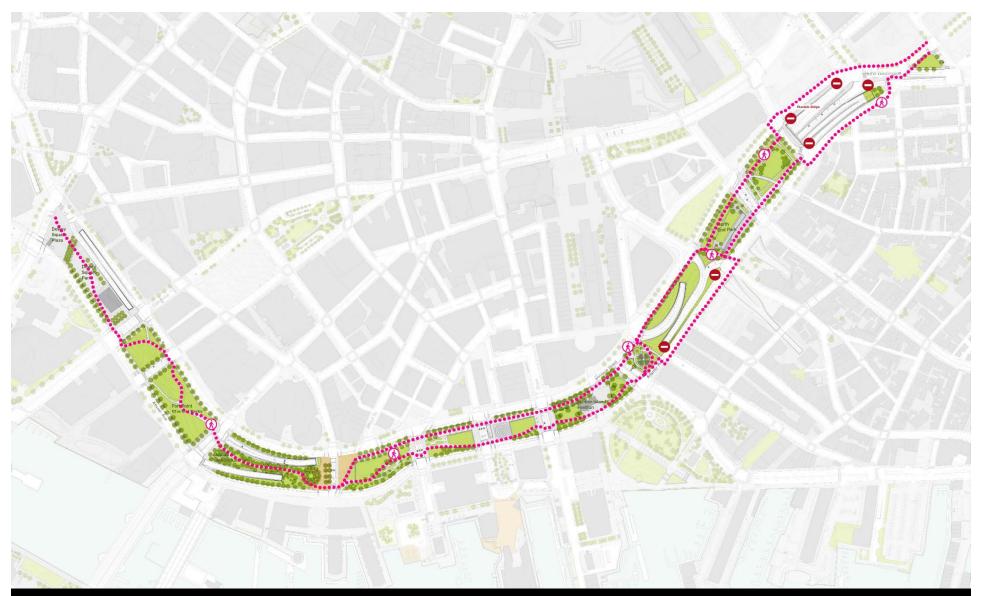


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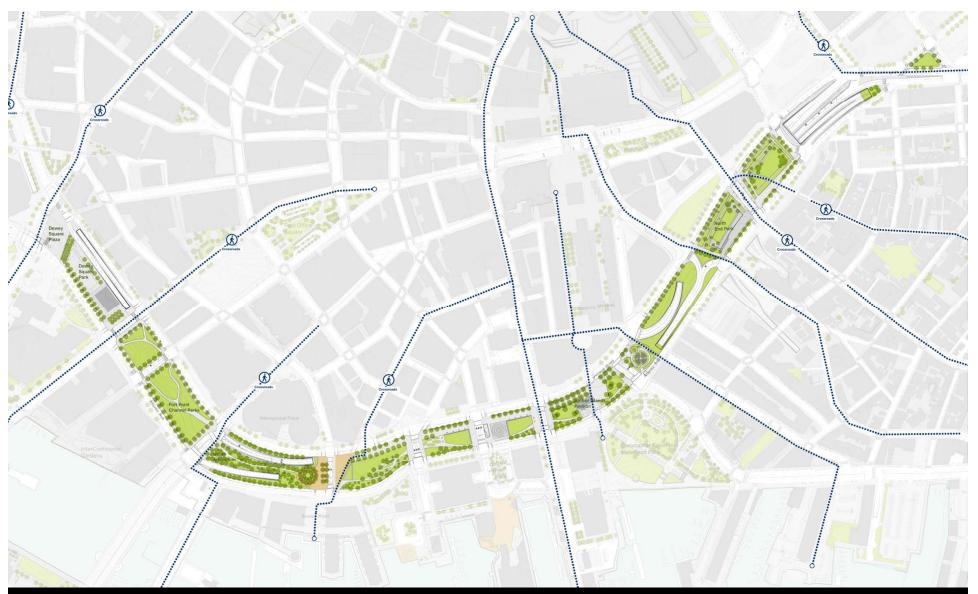
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### Purpose of the Study Continuity along Greenway



Purpose of the Study

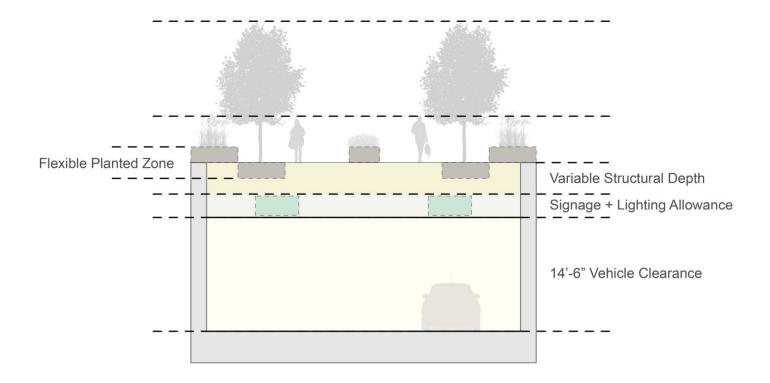
# **Cross-Connections**



Central Artery Ramp Parcels Cover Study

# **Individual Ramp Parcels**

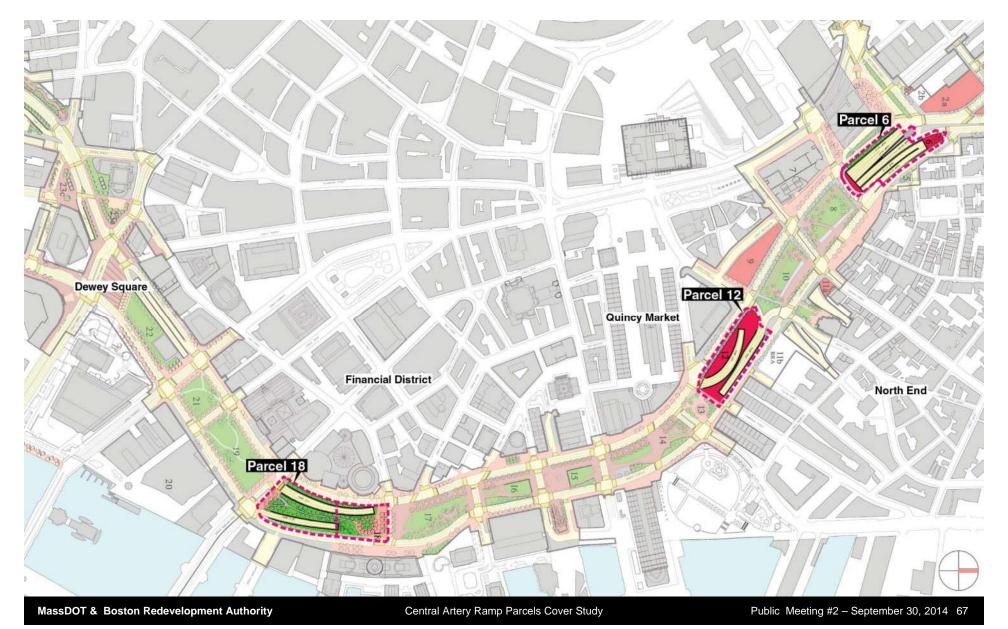
## **Typical Ramp Design Parameters**



# **Methodology and Variations**

- Option A Screening (Vertical)
  - Fencing
  - Vegetation
  - Art/mural
- Option B Cover (Horizontal)
  - Open air
  - Fully enclosed
  - Accessible deck
  - Bridge
  - Green roof
- Option C Building Concept
  - Pavilion/Kiosk/Vending
  - Building corresponding to zoning use

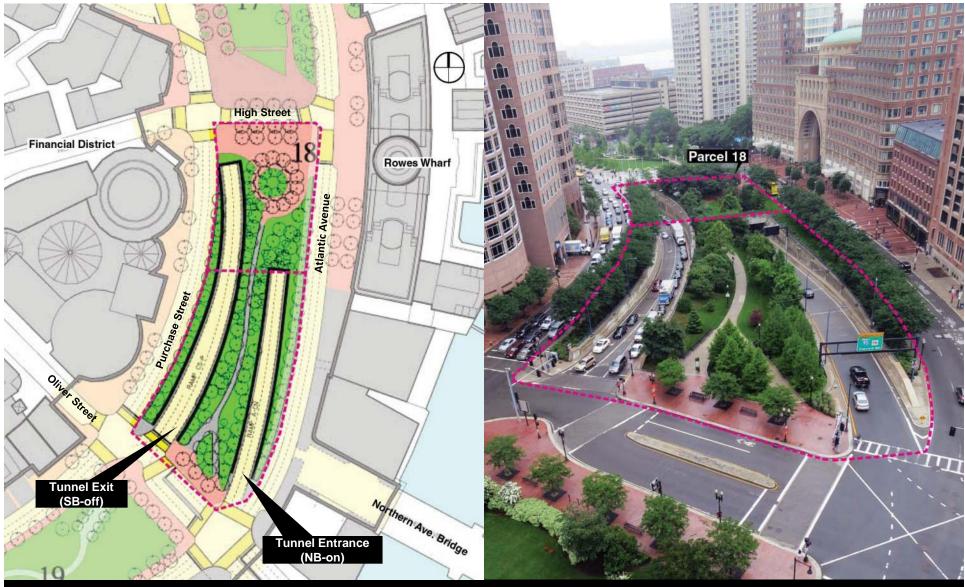
# Addressing the Ramp Parcels



# Individual Ramp Parcels Parcel 18







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# Parcel 18 Overall Character

- Robust, inviting, and well-landscaped.
- Ramps are not visible from pedestrian walkways, but:
  - Additional screening could better shield the ramps.
  - Ramps are not well screened facing the street.

## **Parcel 18 Uses**





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# **Parcel 18 Potential View Corridors**

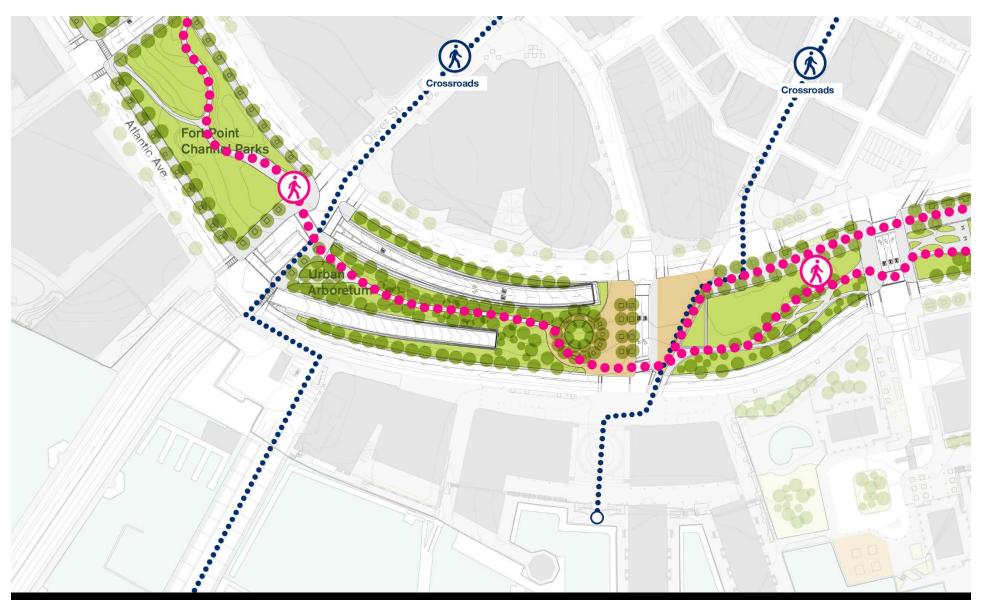


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#### **Parcel 18 Circulation**



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### **Parcel 18 Perspective**



# **Parcel 18 Active Edges**

Active Edges: Publicly accessible uses



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### **Parcel 18 Perspective**





# **Parcel 18 Perspective**





# Parcel 18: Option A - Screening



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# Parcel 18: Option A - Screening



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# "Screening": Examples

**Trees and hedges** 













#### **Public Art**









# Parcel 18: Option B – Cover

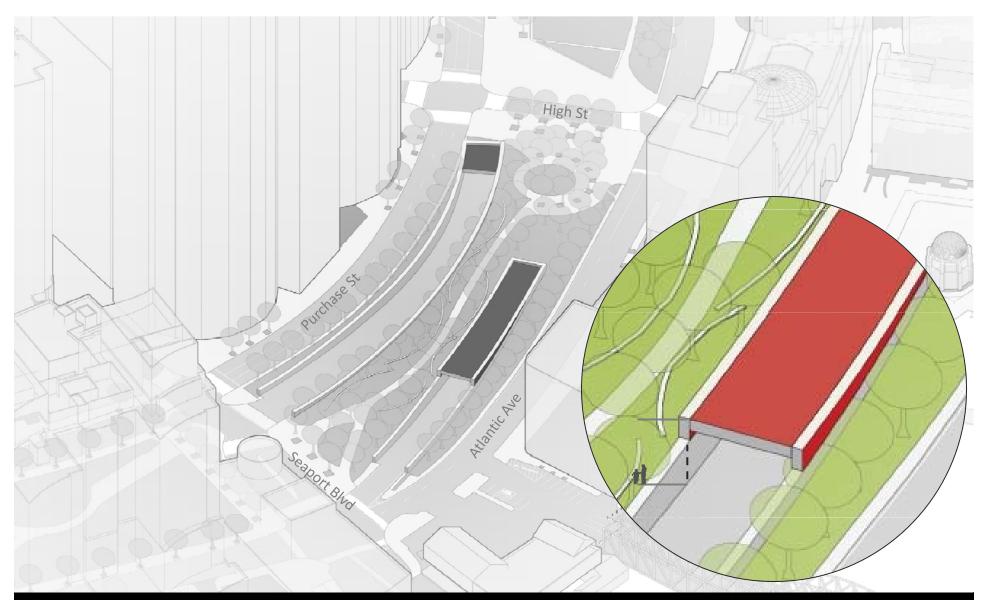


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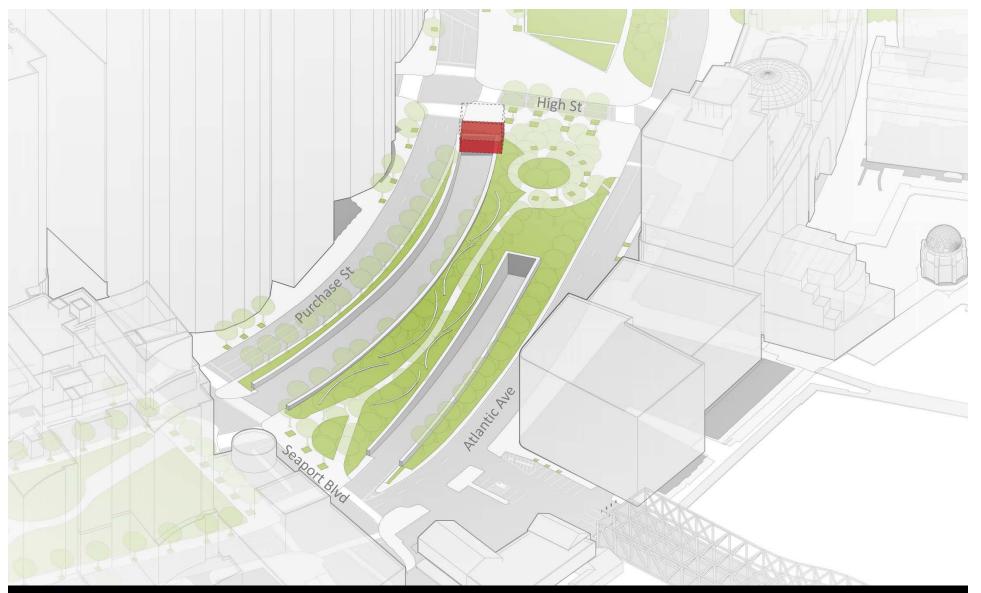
Central Artery Ramp Parcels Cover Study



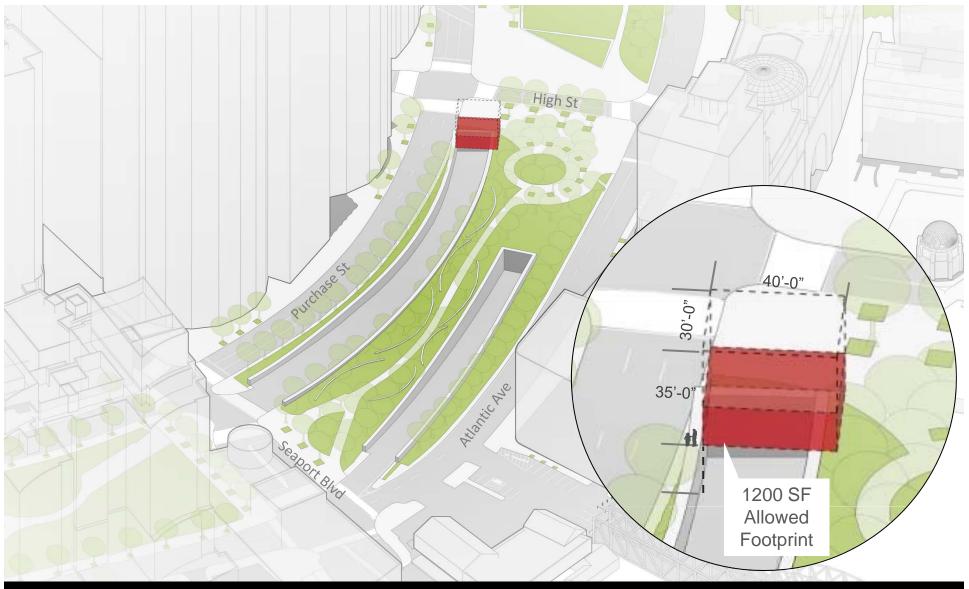




# Parcel 18: Option C – Building Concept



# Parcel 18: Option C – Building Concept



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Central Artery Ramp Parcels Cover Study



# **Parcel 18: Option D – No Alterations**

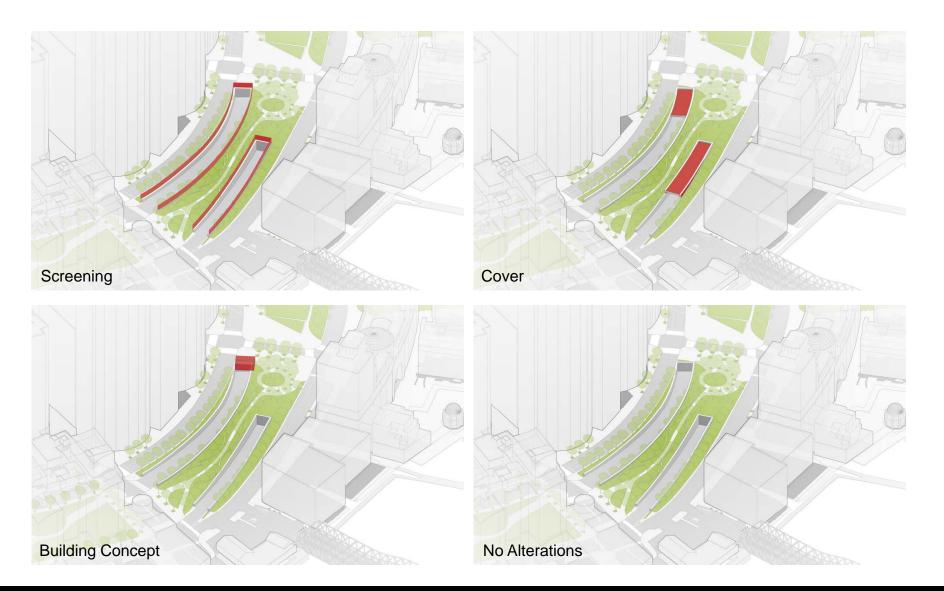


MassDOT & Boston Redevelopment Authority

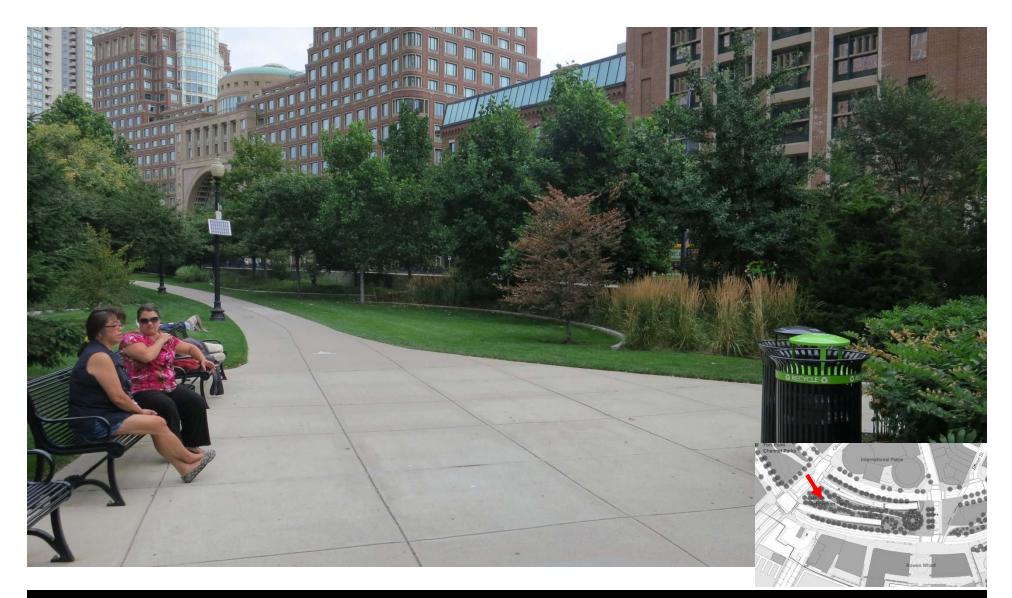
Central Artery Ramp Parcels Cover Study

# **Parcel 18: Options**





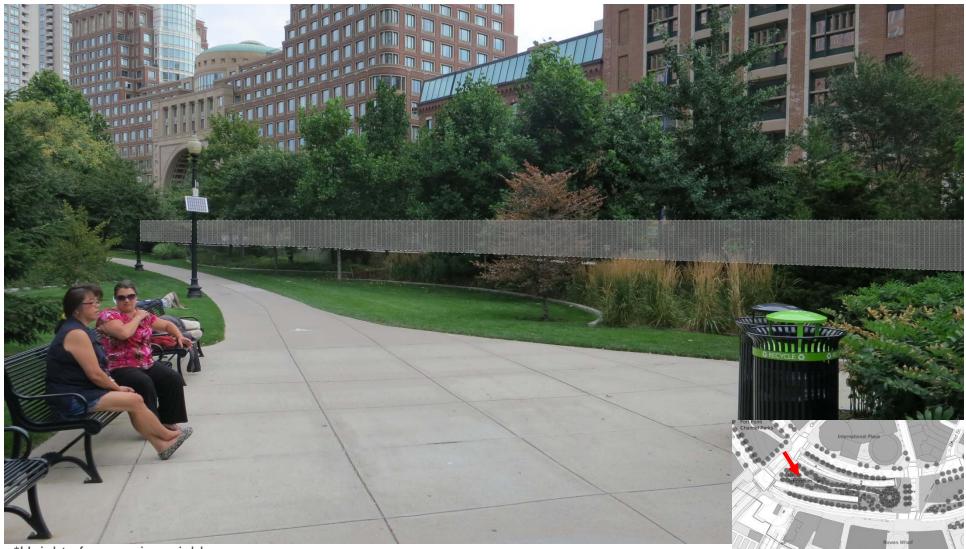
#### **Parcel 18: Existing Eye-Level Perspective**



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Central Artery Ramp Parcels Cover Study

### **Parcel 18: Screening**

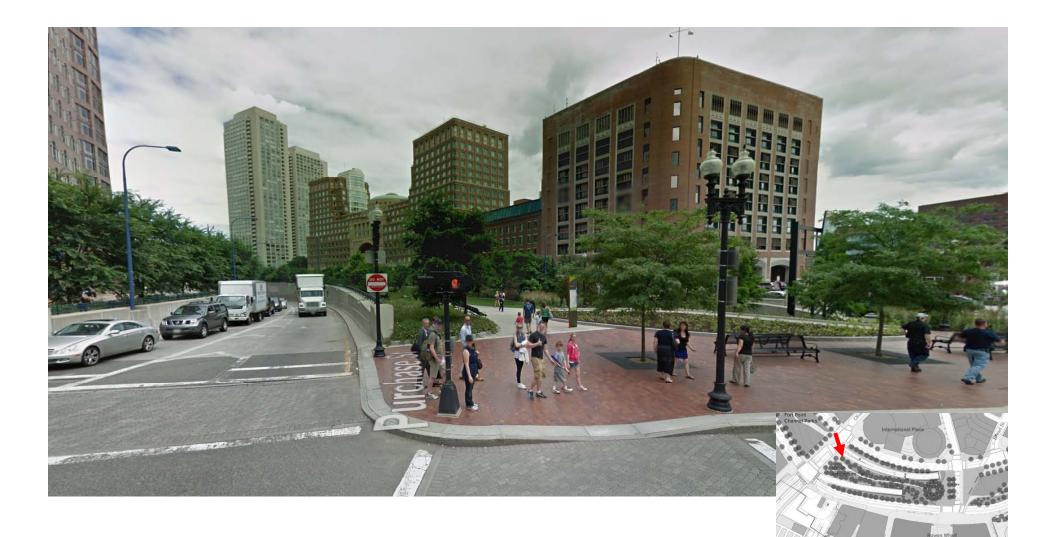


\*Height of screen is variable

MassDOT & Boston Redevelopment Authority

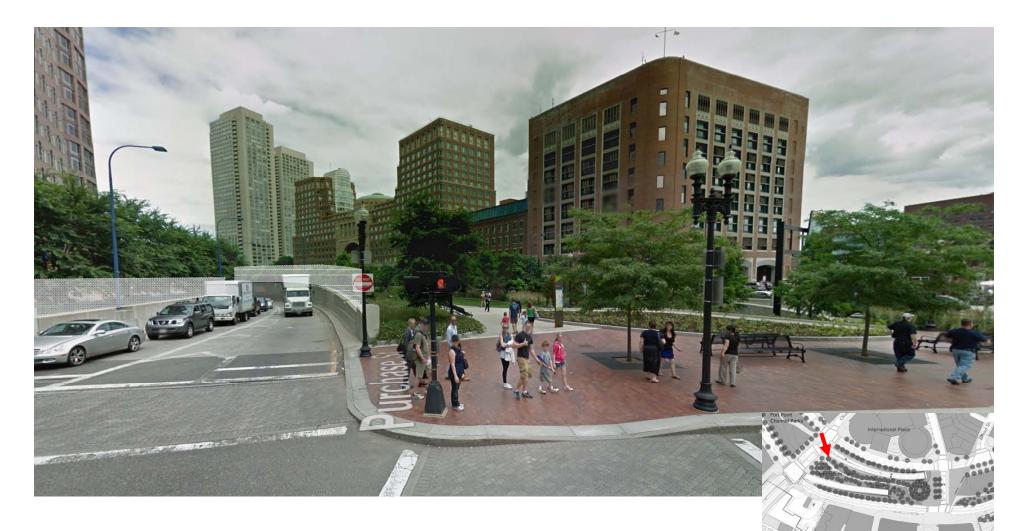
Central Artery Ramp Parcels Cover Study

# **Parcel 18: Existing Perspective**



Central Artery Ramp Parcels Cover Study

### **Parcel 18: Screening**



\*Height of screen is variable

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Central Artery Ramp Parcels Cover Study

# **Parcel 18: Existing Perspective**



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Central Artery Ramp Parcels Cover Study

#### **Parcel 18: Existing Perspective**



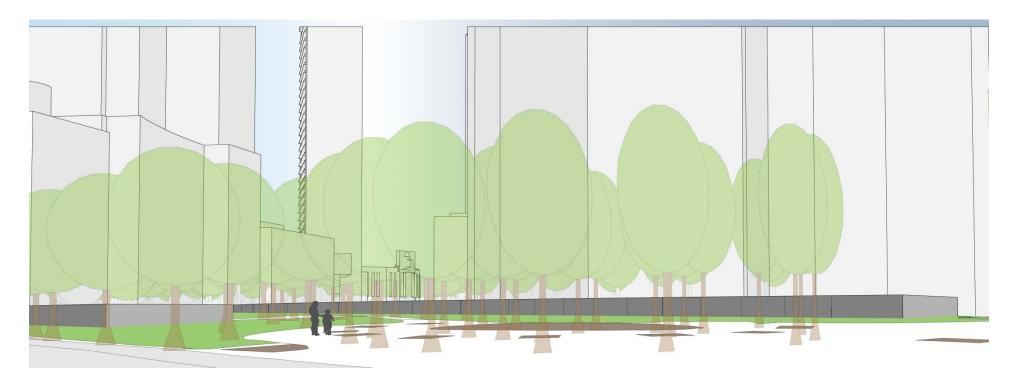
MassDOT & Boston Redevelopment Authority

Central Artery Ramp Parcels Cover Study

# **Parcel 18: Existing Perspective**



# **Parcel 18: Existing Perspective**

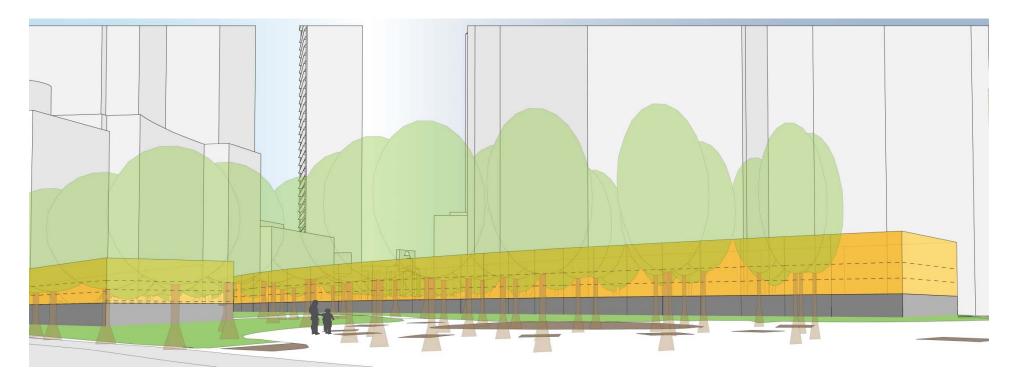




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### Parcel 18: Option A - Screening



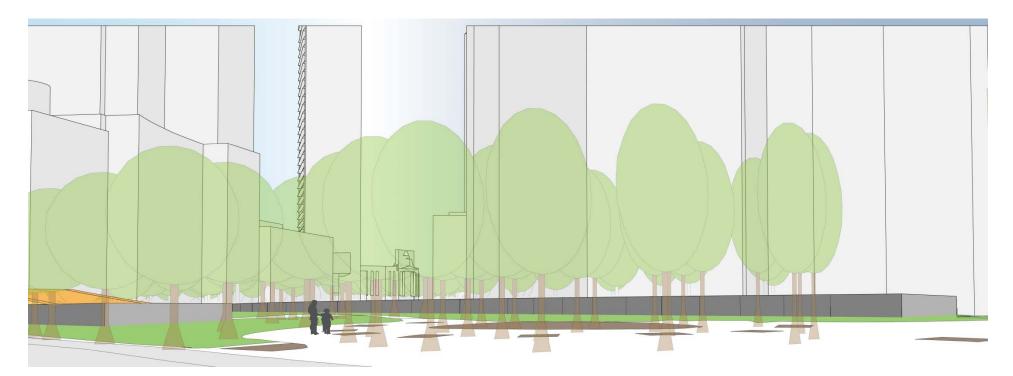


\*Height of screen is variable

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### Parcel 18: Option B - Cover

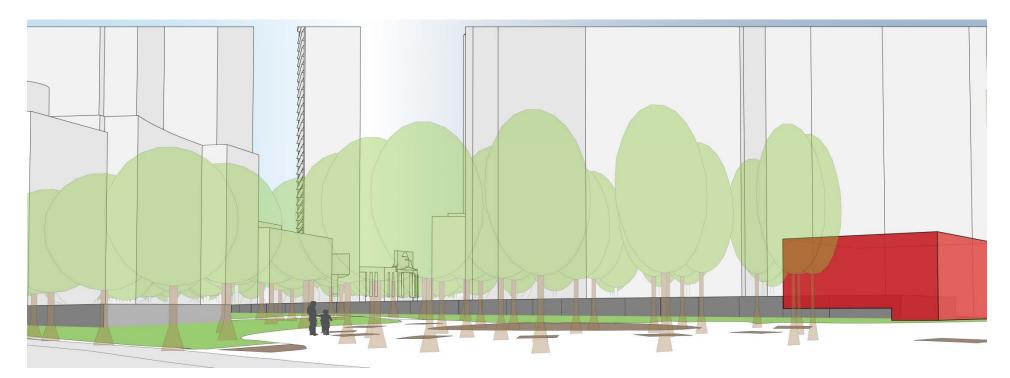




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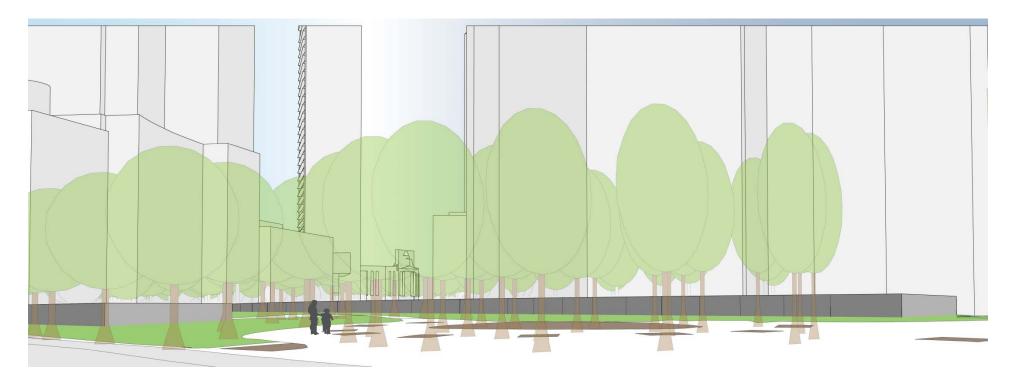
#### Parcel 18: Option C - Building Concept





Central Artery Ramp Parcels Cover Study

#### Parcel 18: Option D – As Is





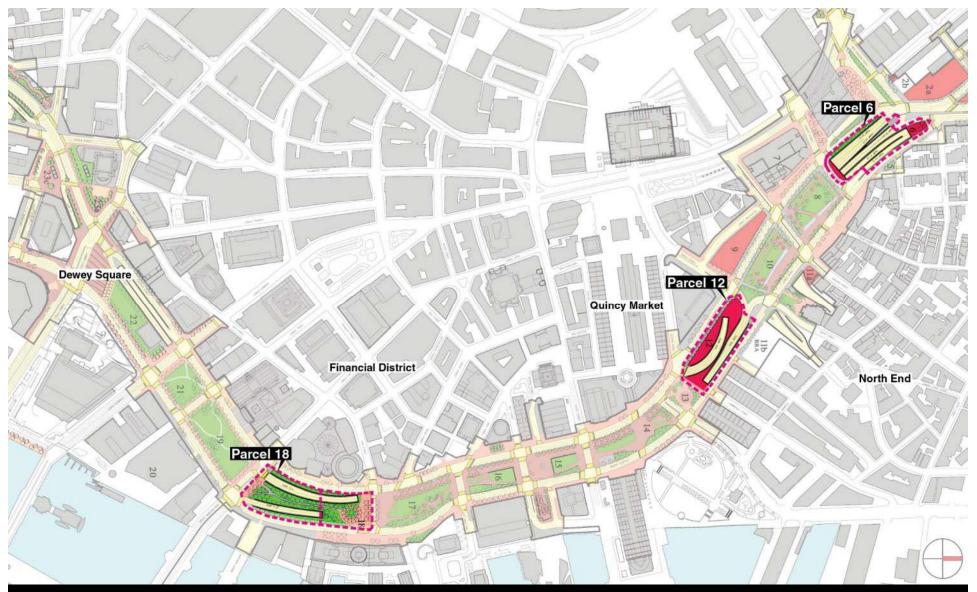
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Central Artery Ramp Parcels Cover Study

# Individual Ramp Parcels Parcel 12







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Central Artery Ramp Parcels Cover Study

#### Parcel 12



MassDOT & Boston Redevelopment Authority

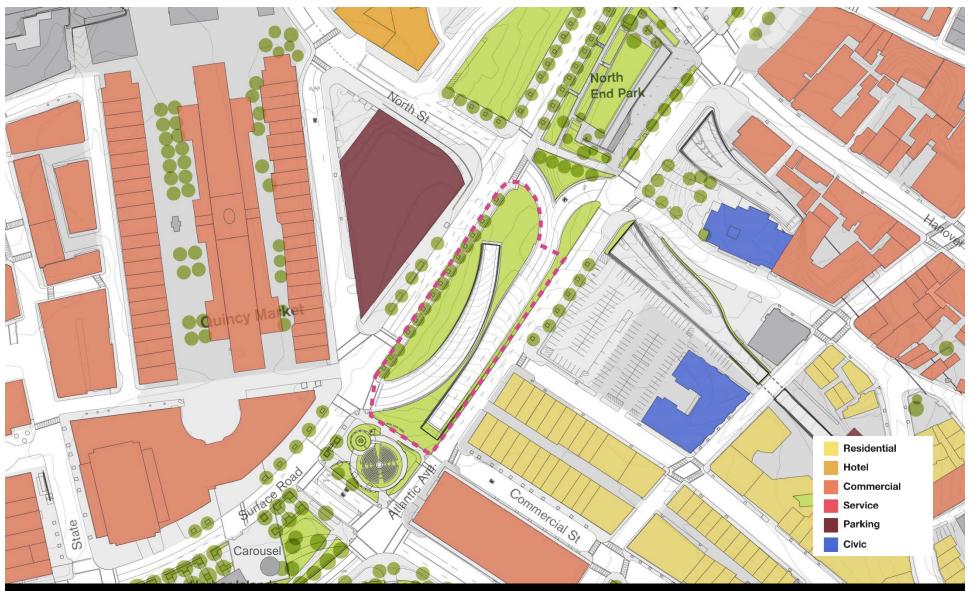
Central Artery Ramp Parcels Cover Study

# Parcel 12 Overall Character

- Open space exists, but is neither inviting or landscaped.
- Ramps shunt pedestrians around the parcel.

#### Parcel 12 Uses





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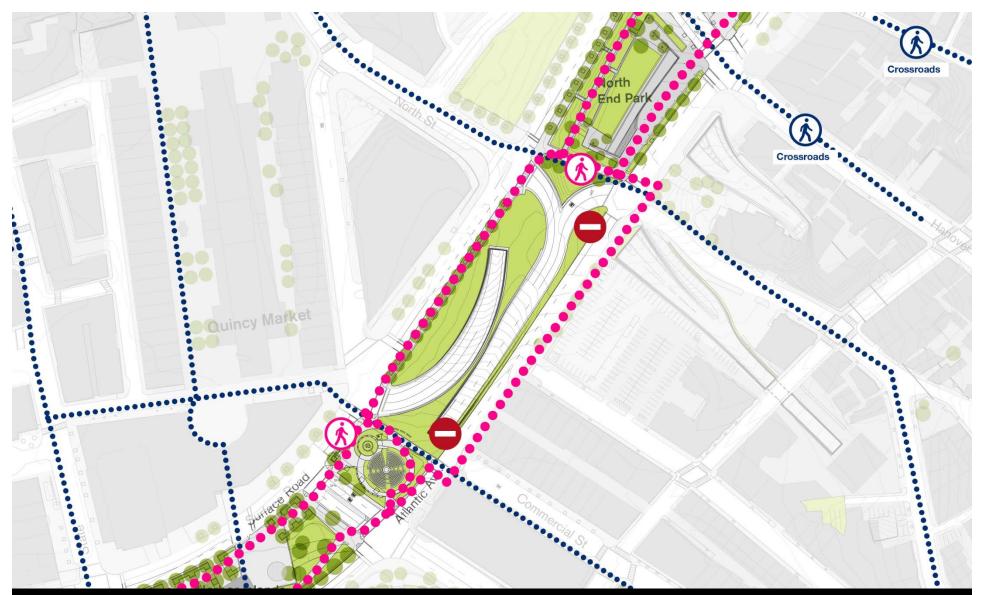


# **Parcel 12 Potential View Corridors**



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#### **Parcel 12 Perspective**



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Central Artery Ramp Parcels Cover Study

### **Parcel 12 Active Edges**

Active Edges: Publicly accessible uses

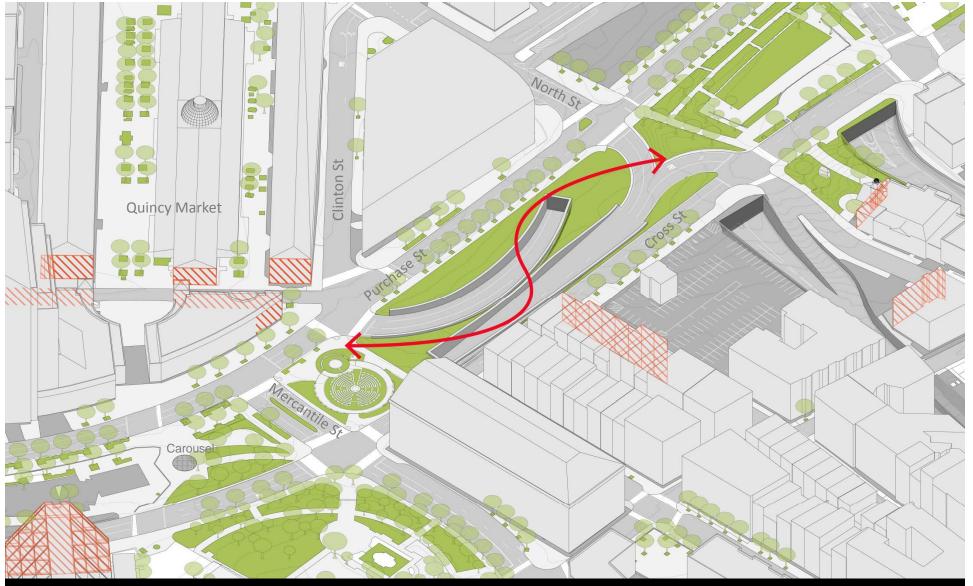


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Central Artery Ramp Parcels Cover Study





### **Parcel 12 Perspective**



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Central Artery Ramp Parcels Cover Study



# Parcel 12: Option A - Screening

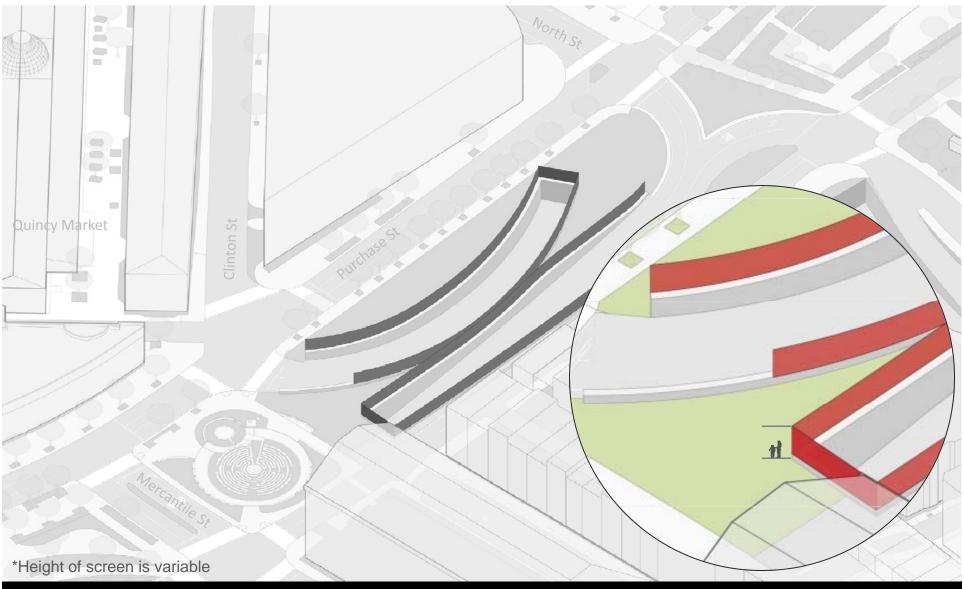


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Central Artery Ramp Parcels Cover Study



# Parcel 12: Option A - Screening



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Central Artery Ramp Parcels Cover Study

# "Screening": Examples

**Trees and hedges** 













#### **Public Art**







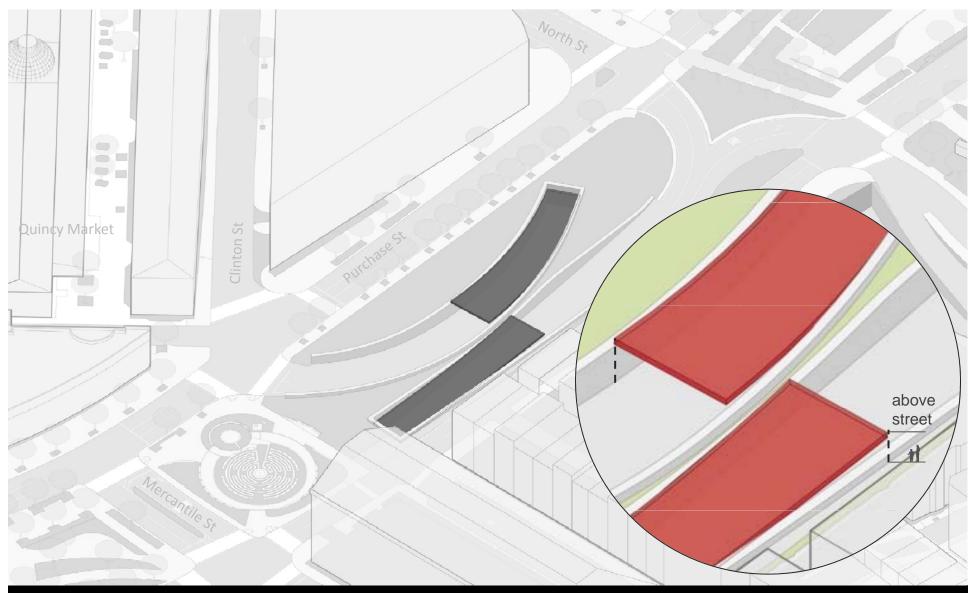


# Parcel 12: Option B – Cover





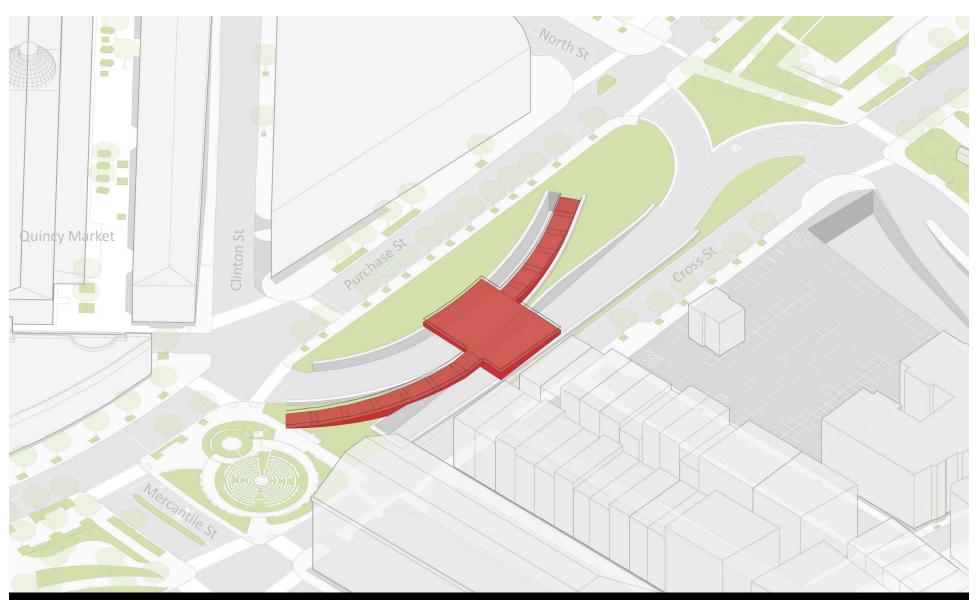




Central Artery Ramp Parcels Cover Study

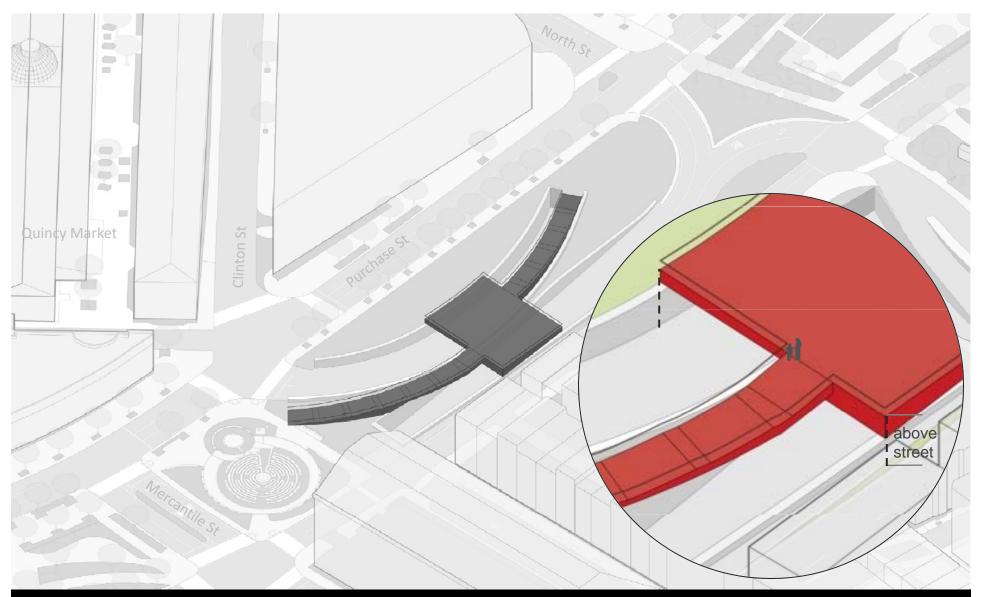


# Parcel 12: Option B – Cover









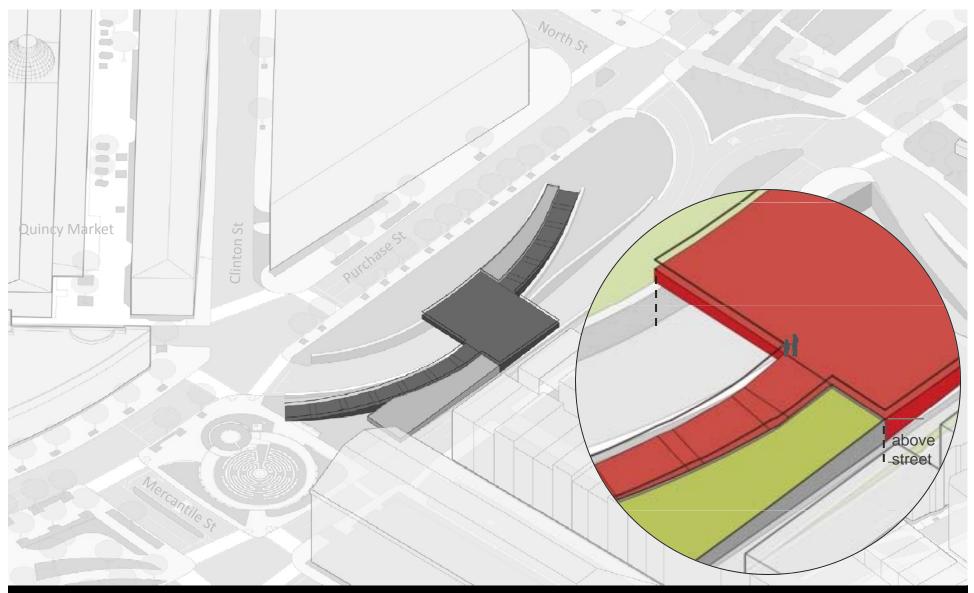


# Parcel 12: Option B – Cover

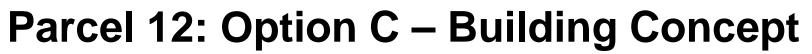


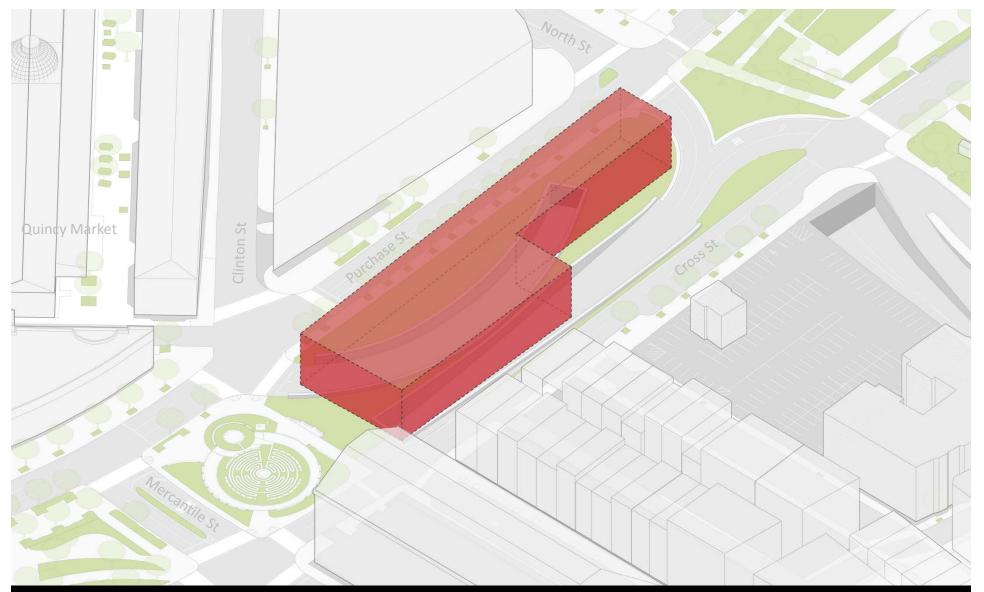




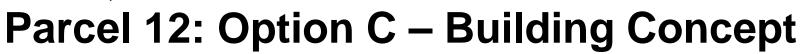


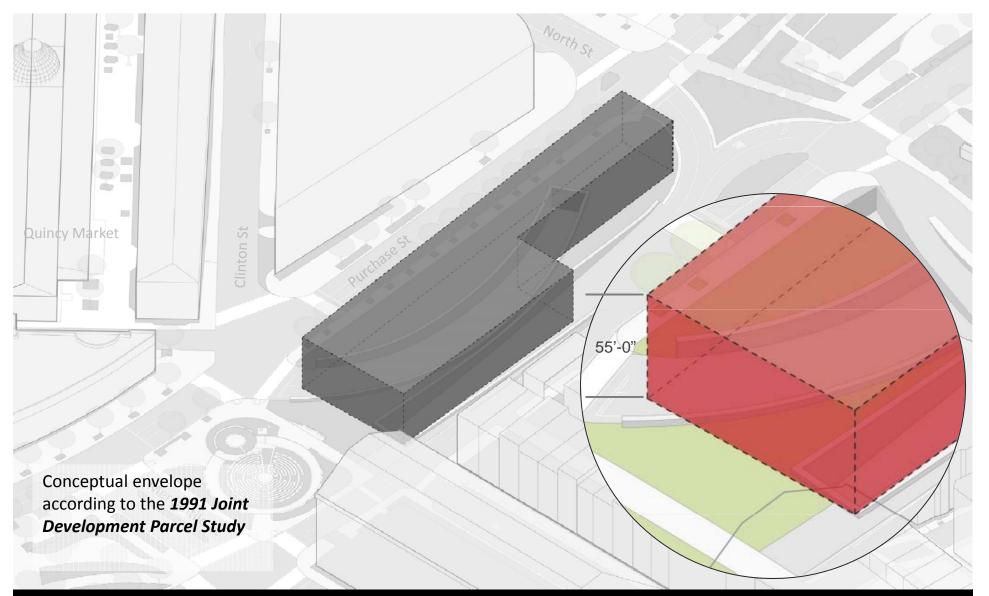
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### **Parcel 12: Options**



# **Parcel 12 Eye-Level Perspective**



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Central Artery Ramp Parcels Cover Study

### **Parcel 12 Existing Eye-Level Perspective**



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Central Artery Ramp Parcels Cover Study

### Parcel 12: Option A - Screening



\*Height of screen is variable

MassDOT & Boston Redevelopment Authority

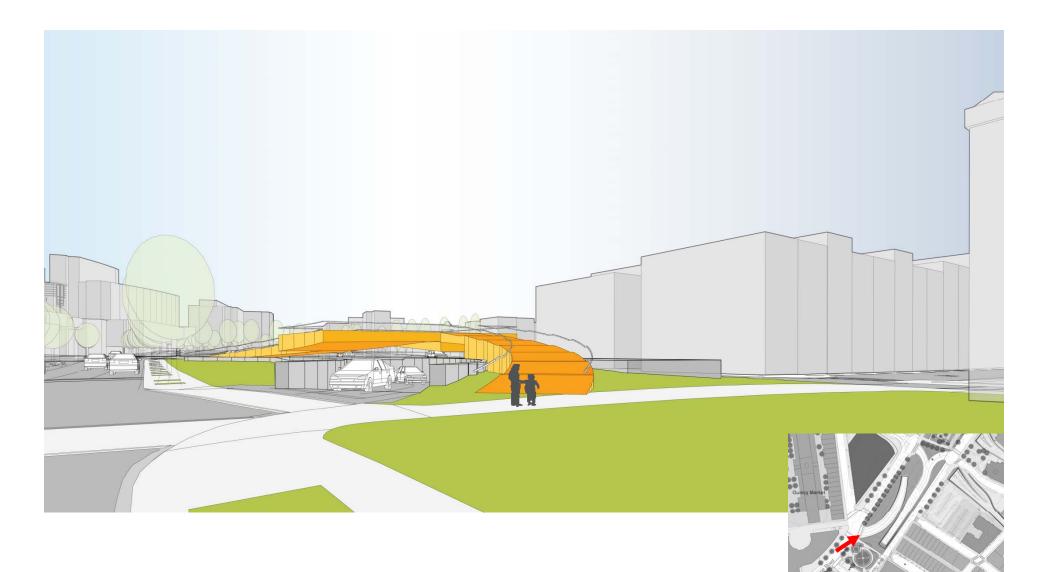
Central Artery Ramp Parcels Cover Study

### Parcel 12: Option B - Cover



Central Artery Ramp Parcels Cover Study

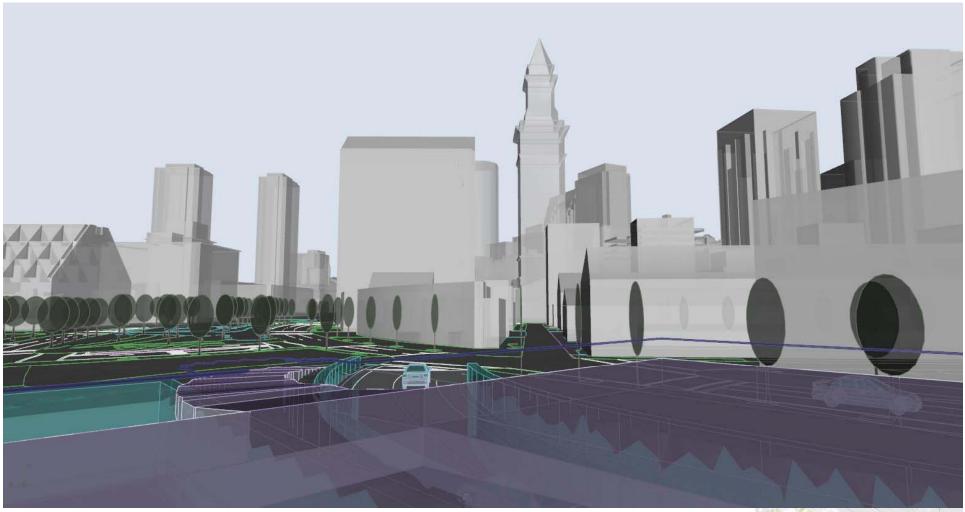
### Parcel 12: Option B – Cover Accessible



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Central Artery Ramp Parcels Cover Study

# Parcel 12: Option B (Looking South)





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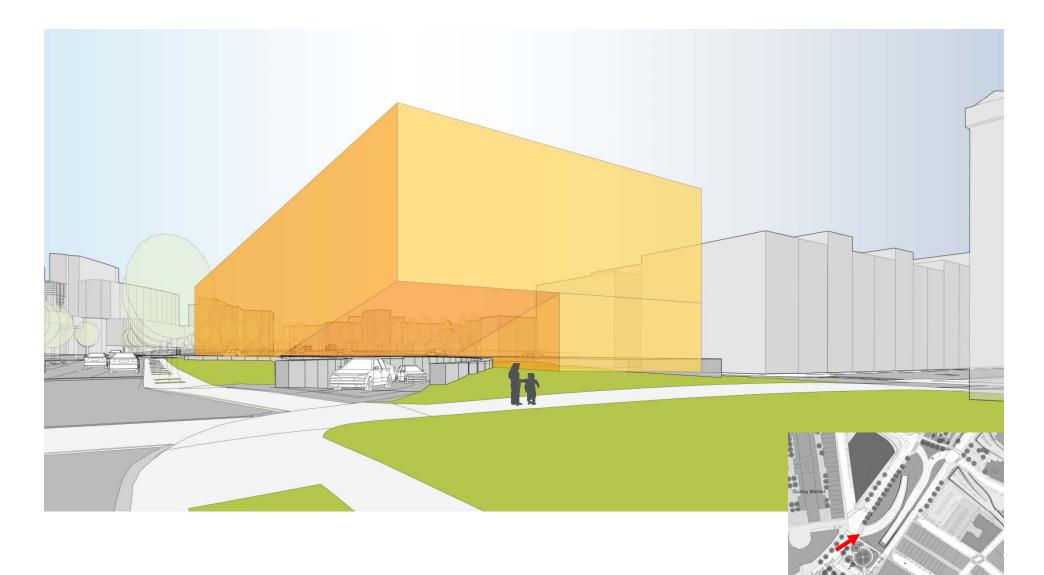
Central Artery Ramp Parcels Cover Study

### Parcel 12: Option B – Cover Accessible



Central Artery Ramp Parcels Cover Study

### Parcel 12: Option C – Building Concept



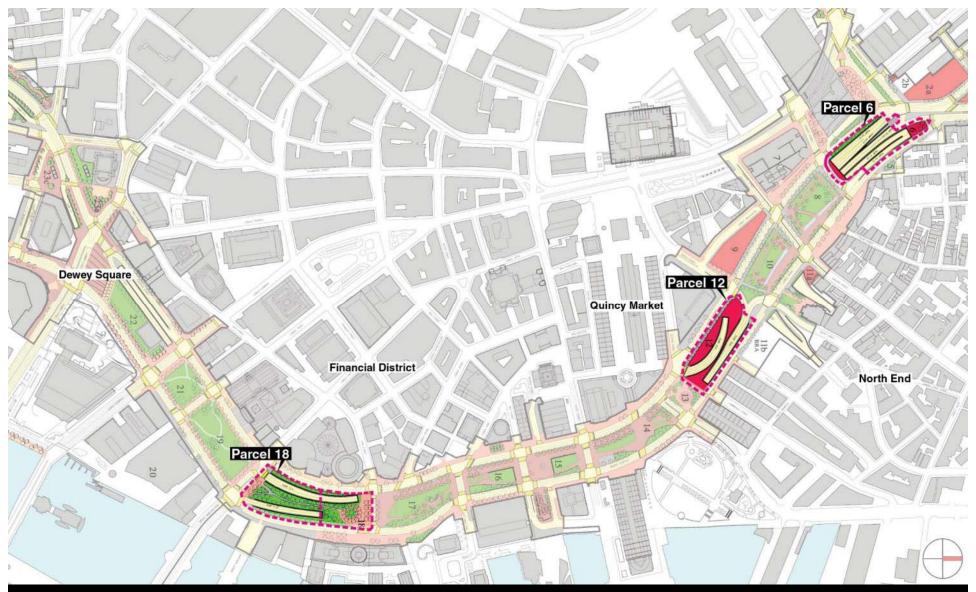
MassDOT & Boston Redevelopment Authority

Central Artery Ramp Parcels Cover Study

# Individual Ramp Parcels Parcel 6





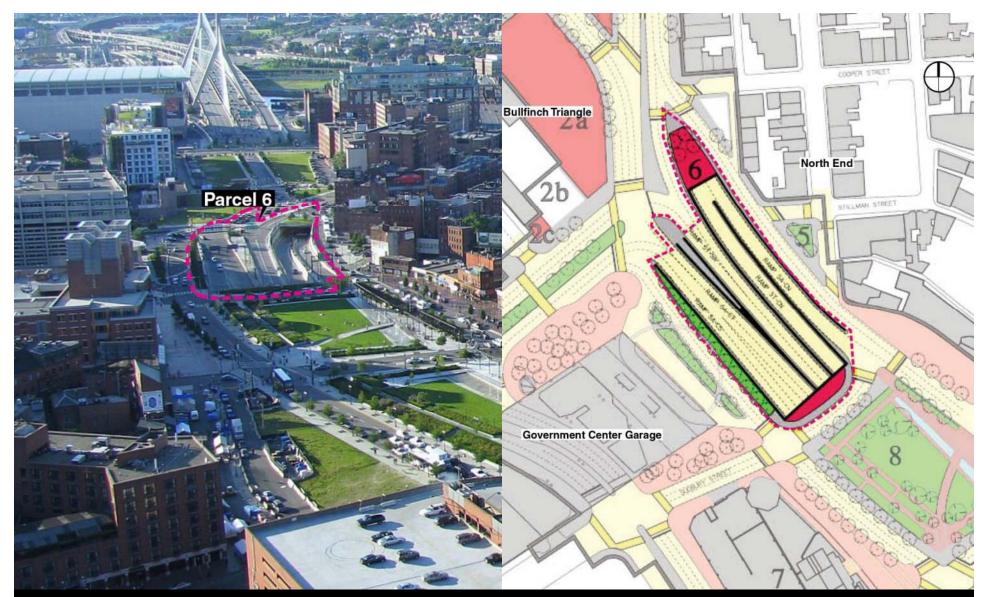


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Central Artery Ramp Parcels Cover Study

#### Parcel 6





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Central Artery Ramp Parcels Cover Study

### Parcel 6 Overall Character

- Parcel is almost entirely taken up by ramps.
- The parcel feels like (and is) a highway overpass.
- Any pedestrian motion will require new spanning structures.

### **Parcel 6 Uses**



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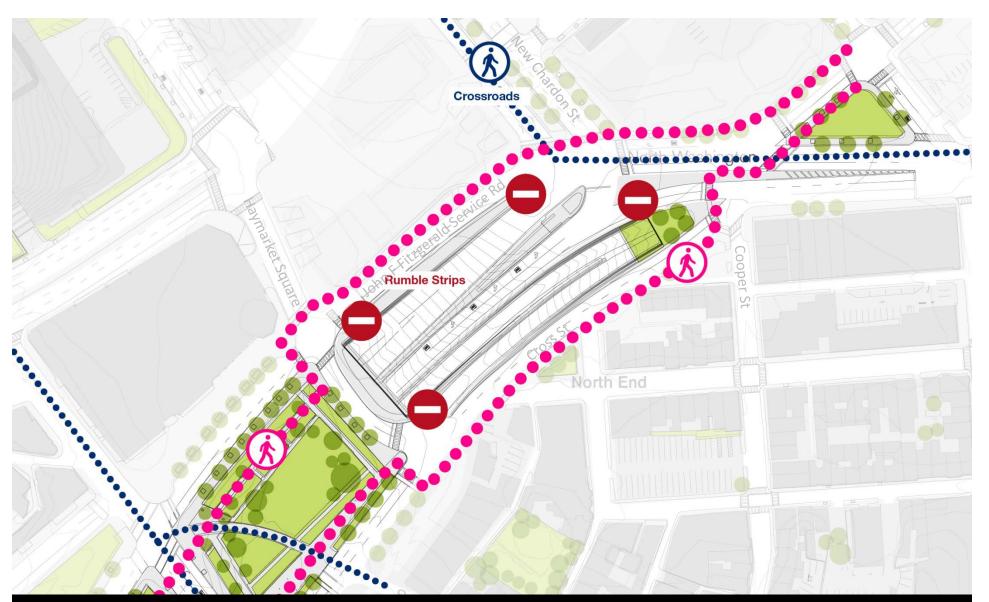


### **Parcel 6 Potential View Corridors**



#### **Parcel 6 Circulation**





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### **Parcel 6 Perspective**



# **Parcel 6 Active Edges**

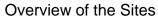
Active Edges: Publicly accessible uses



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Central Artery Ramp Parcels Cover Study







### **Parcel 6 Desire Line**



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Central Artery Ramp Parcels Cover Study



### **Parcel 6 Perspective**



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Central Artery Ramp Parcels Cover Study



### **Parcel 6 Perspective**

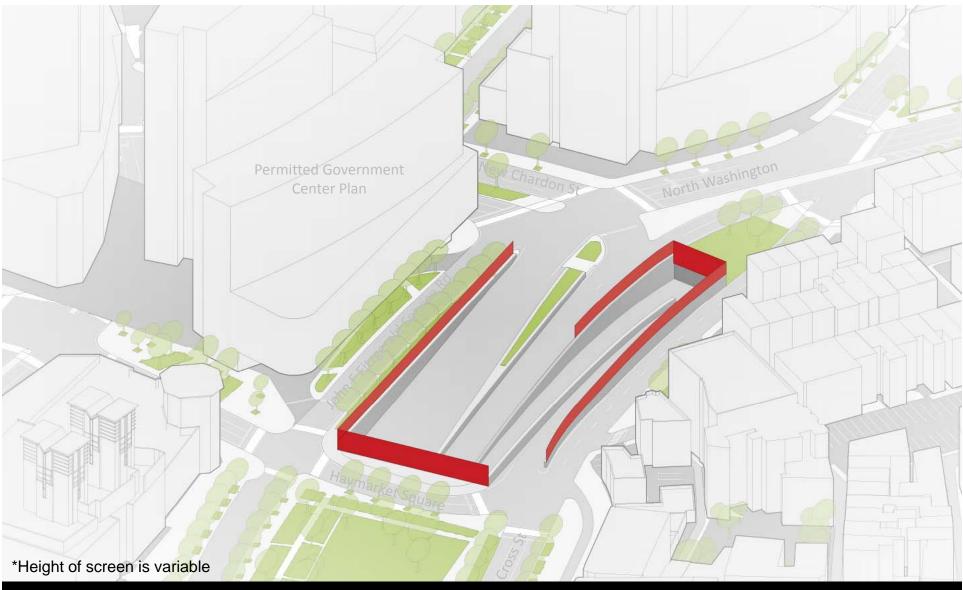


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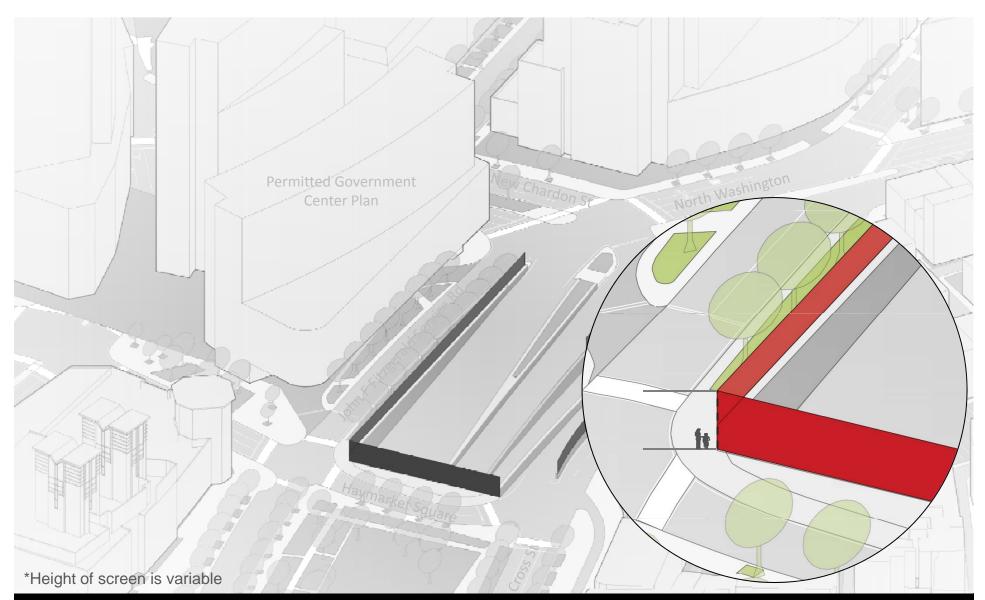
# **Parcel 6: Option A - Screening**



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# **Parcel 6: Option A - Screening**



MassDOT & Boston Redevelopment Authority

# "Screening": Examples

**Trees and hedges** 













#### **Public Art**



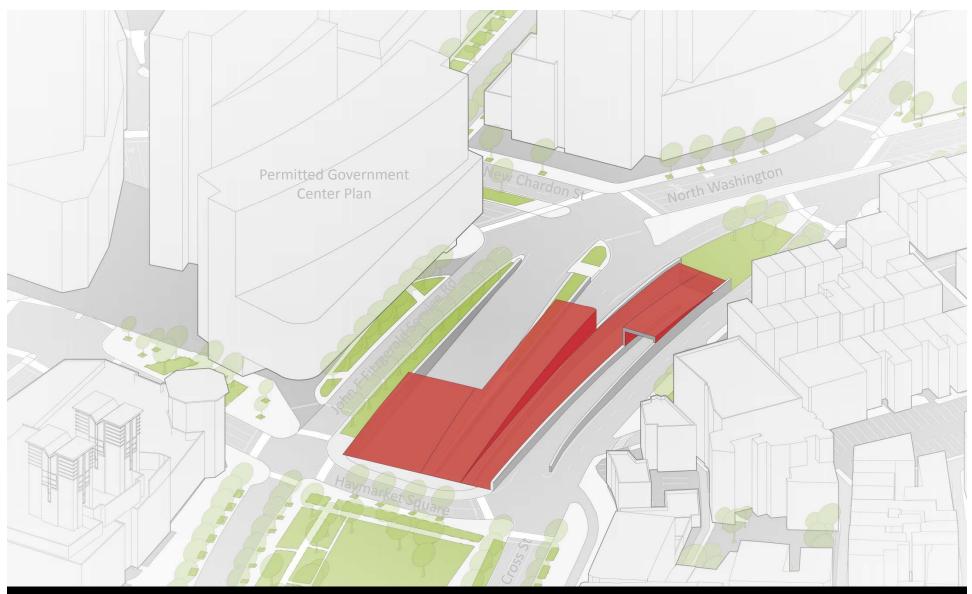




Central Artery Ramp Parcels Cover Study



## Parcel 6: Option B – Cover

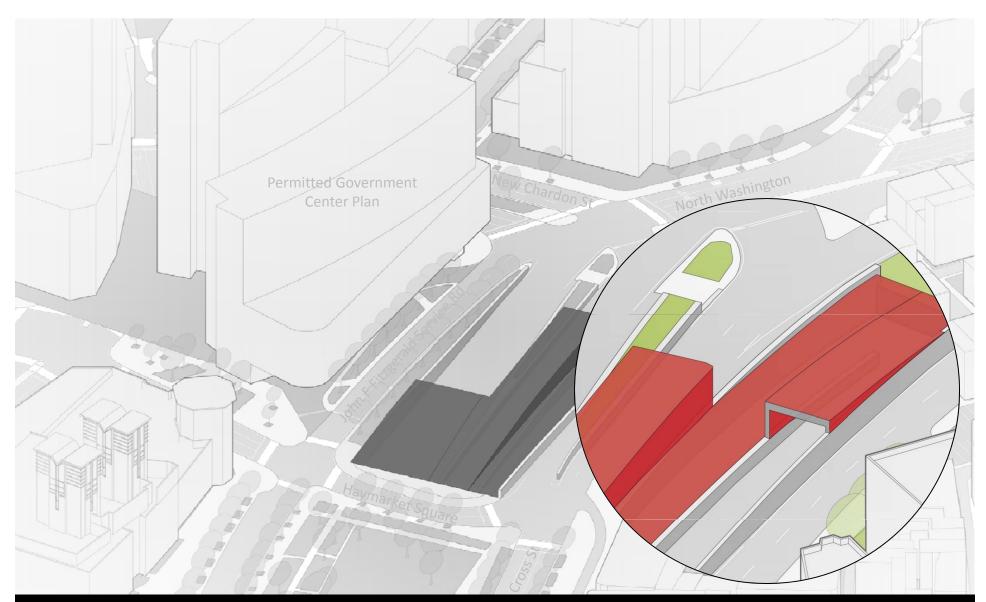


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Central Artery Ramp Parcels Cover Study

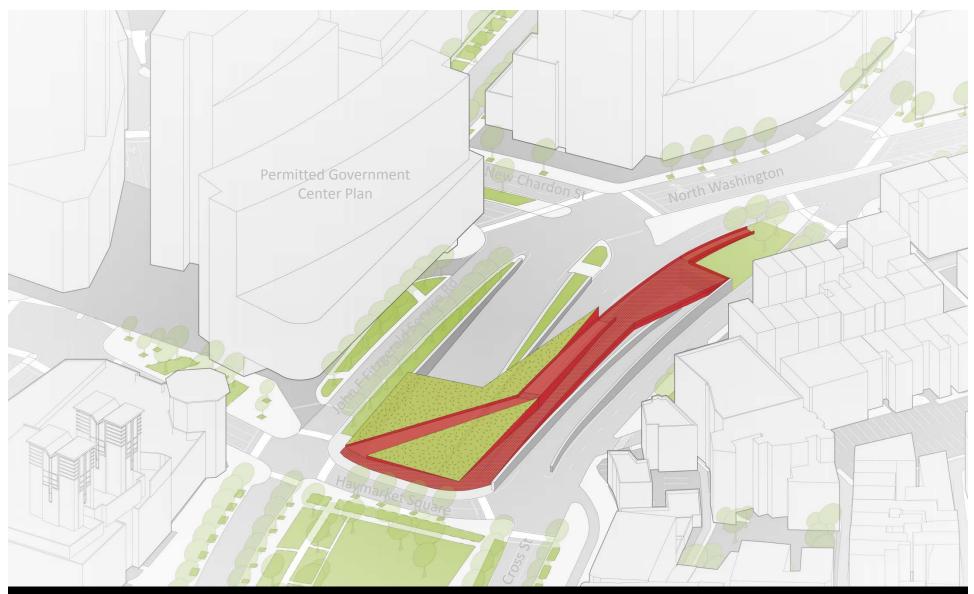


## Parcel 6: Option B – Cover





## Parcel 6: Option B – Cover

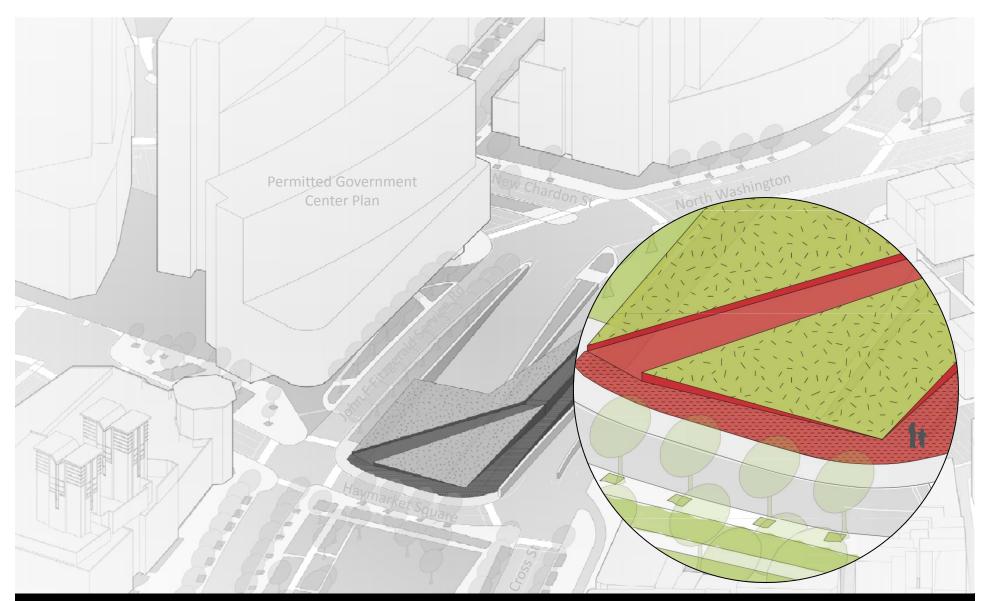


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Central Artery Ramp Parcels Cover Study



## Parcel 6: Option B – Cover

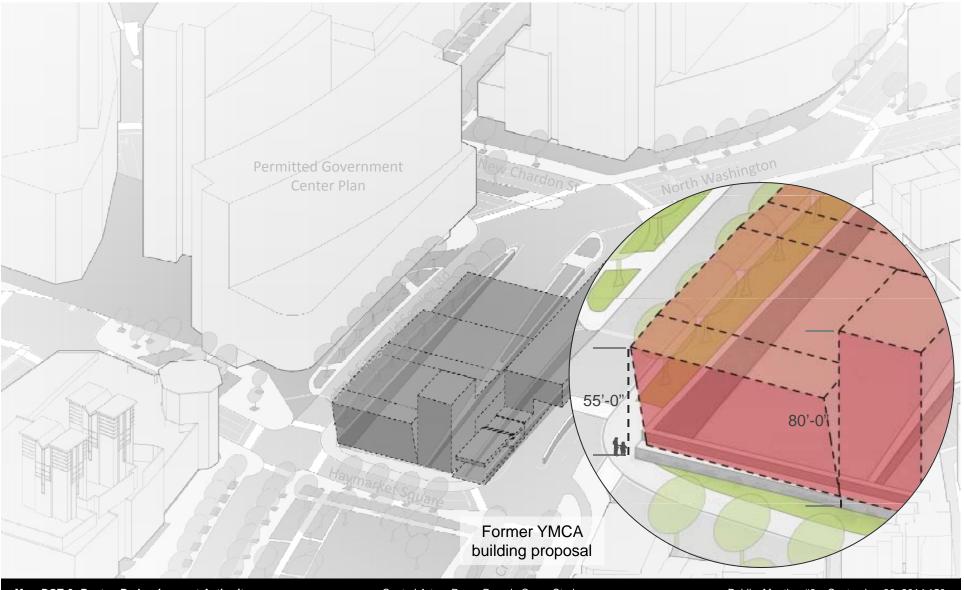


Central Artery Ramp Parcels Cover Study

## Parcel 6: Option C – Building Concept





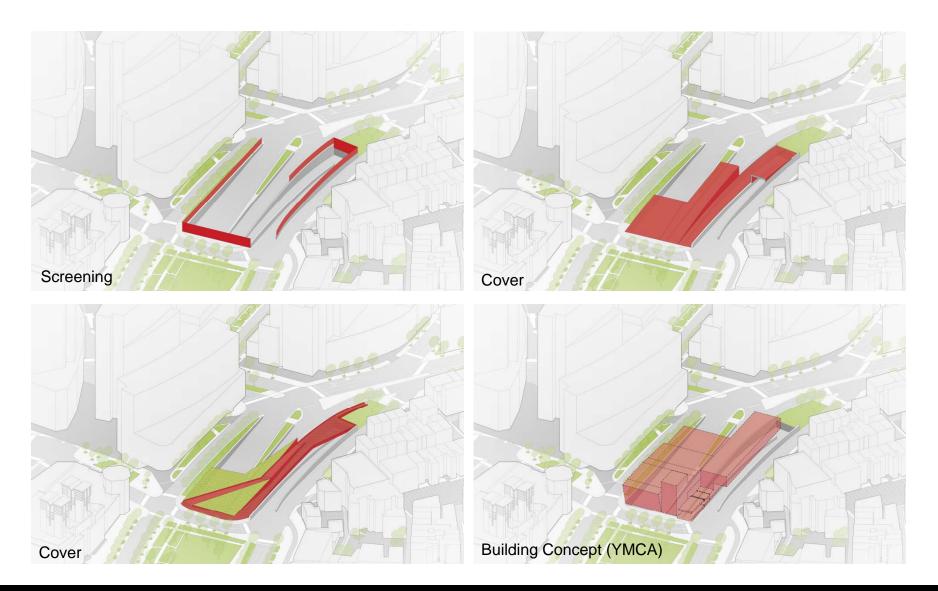


MassDOT & Boston Redevelopment Authority

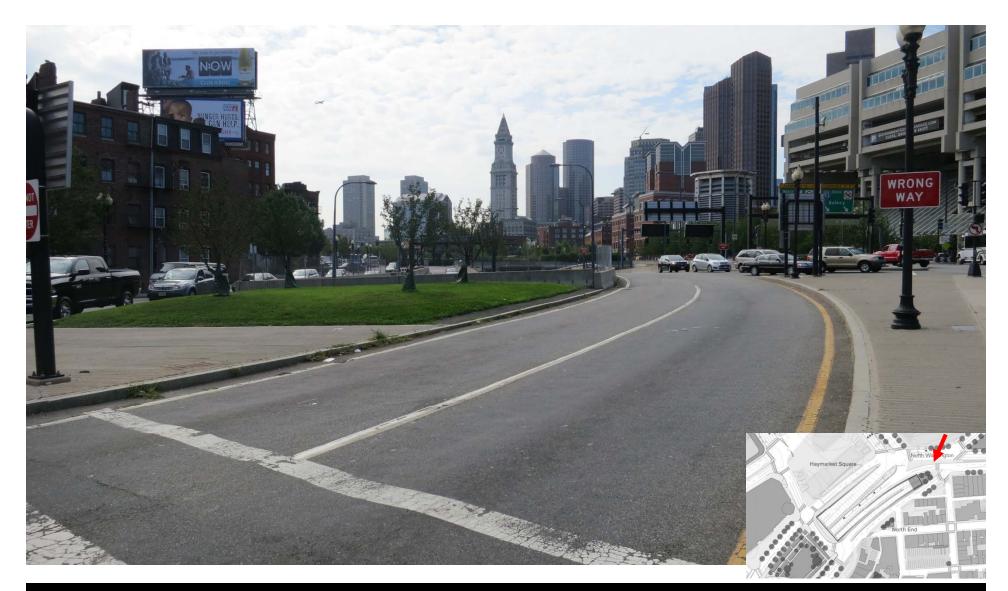
Central Artery Ramp Parcels Cover Study

#### **Parcel 6: Options**





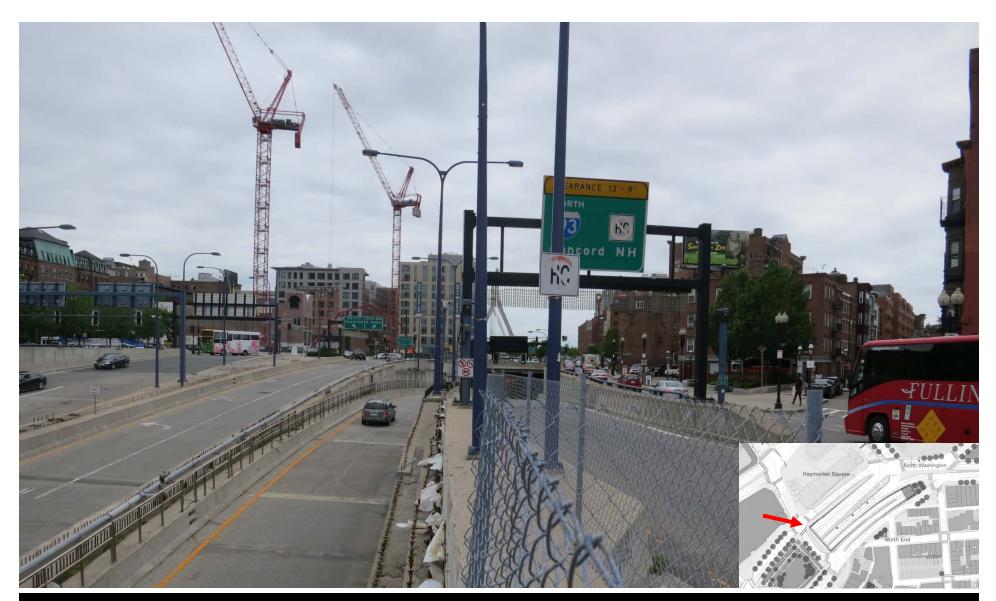
#### **Parcel 6: Existing Perspective**



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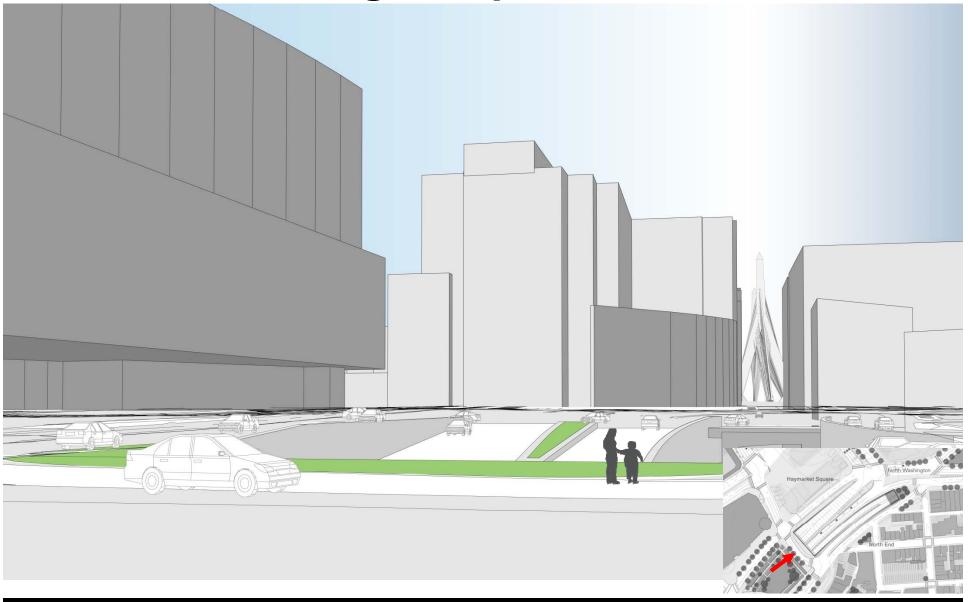
Central Artery Ramp Parcels Cover Study

#### **Parcel 6: Existing Perspective**



Central Artery Ramp Parcels Cover Study

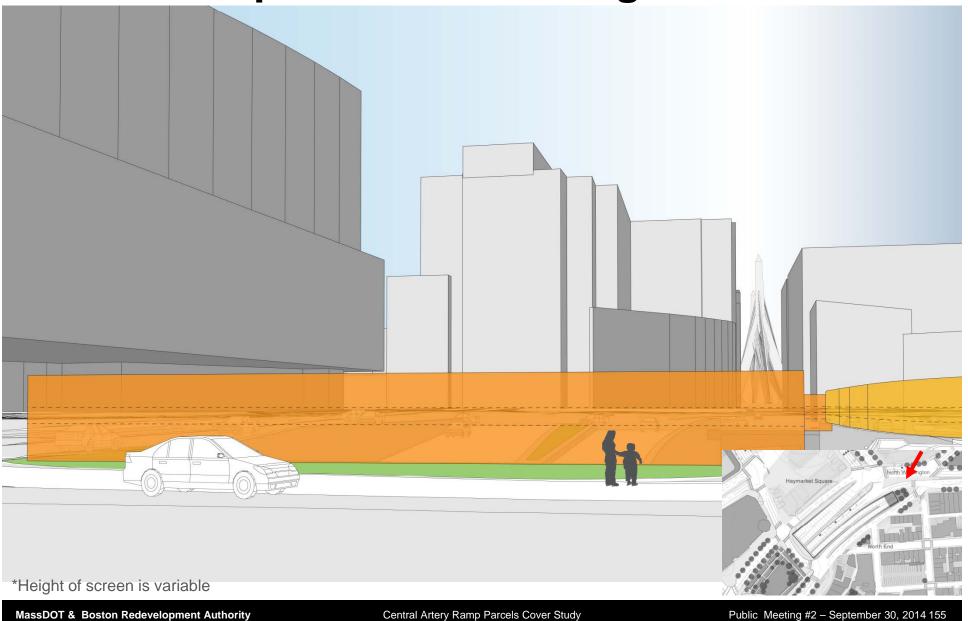
## **Parcel 6: Existing Perspective**



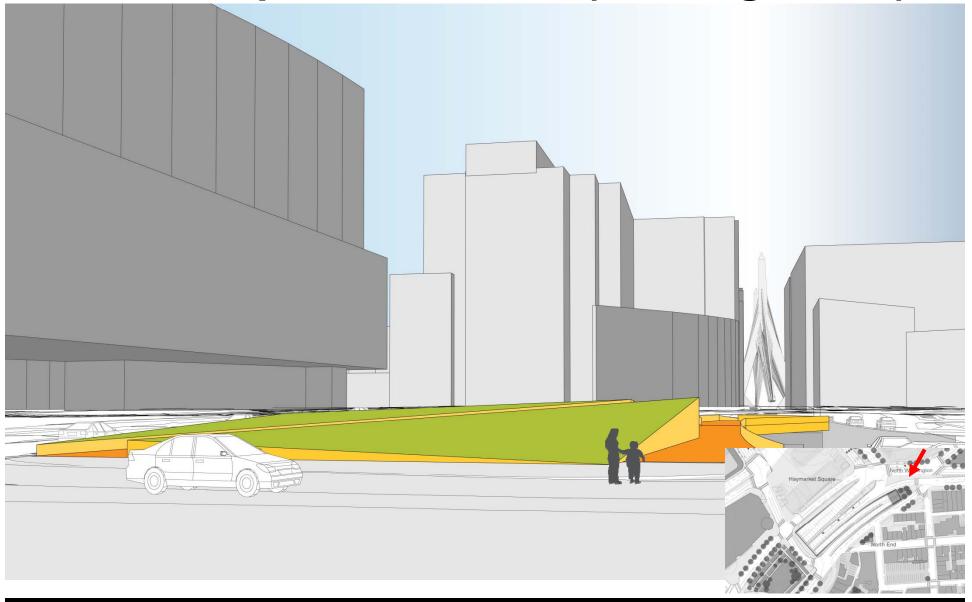
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Central Artery Ramp Parcels Cover Study

## Parcel 6: Option A - Screening



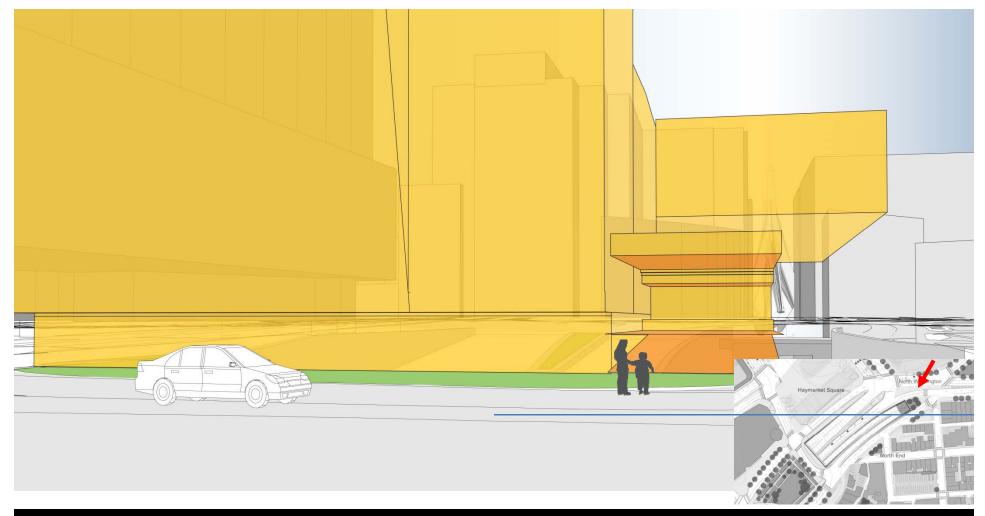
#### Parcel 6: Option B – Cover (Looking South)



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Central Artery Ramp Parcels Cover Study

#### Parcel 6: Option C – Built Concept (YMCA)



Central Artery Ramp Parcels Cover Study

# Corridor Fly Through Model Demonstration

Schedule Our Timeline

#### **Upcoming scheduled public meetings:**

October 29, 2014 BRA Board Room

January 8, 2015 BRA Board Room

# Public Comments & Discussion

# Thank you!

#### Keep in touch by checking

http://www.bostonredevelopmentauthority.org/planning /planning-initiatives/greenway-ramp-parcel-study (or http://tiny.cc/RampParcelStudy)

#### Send comments to

John Romano, john.romano@dot.state.ma.gov Lauren Shurtleff, lauren.shurtleff@boston.gov