

# CIVIC OPPORTUNITIES MASTER PLAN

## NORTH HOUSTON HIGHWAY IMPROVEMENT PROJECT

swa  
APRIL 2019



# Infrastructure Connectivity Projects

Approach

**Bring communities together rather than divide them by:**

- Facilitating **multi-modal linkages** between the city's districts, neighborhoods and public spaces
- Improving the quality of life for its citizens by ensuring that all have access to **vibrant public open spaces**
- Creating a sense of community by restoring **neighborhood connections**



# *Infrastructure Connectivity Projects*



*Chicago 606*



*5th Street Bridge Atlanta*



*Atlanta Beltline*



*Klyde Warren Park Dallas*



*The Highline NYC*

# North Houston Highway Improvement Project

## Total Project Area

The NHHIP is divided into 3 Segments:

- **Segment 1:** I-45: Beltway 8 to I-610 (9 mi)
- **Segment 2:** I-45: I-610 to I-10 (3 mi)
- **Segment 3:** Downtown Loop System (12.3 mi)
- **Total: 24 miles**



Segments 1, 2 & 3



Segment 3

# North Houston Highway Improvement Project

Segment 3 – January 2018

## OPPORTUNITY SITES

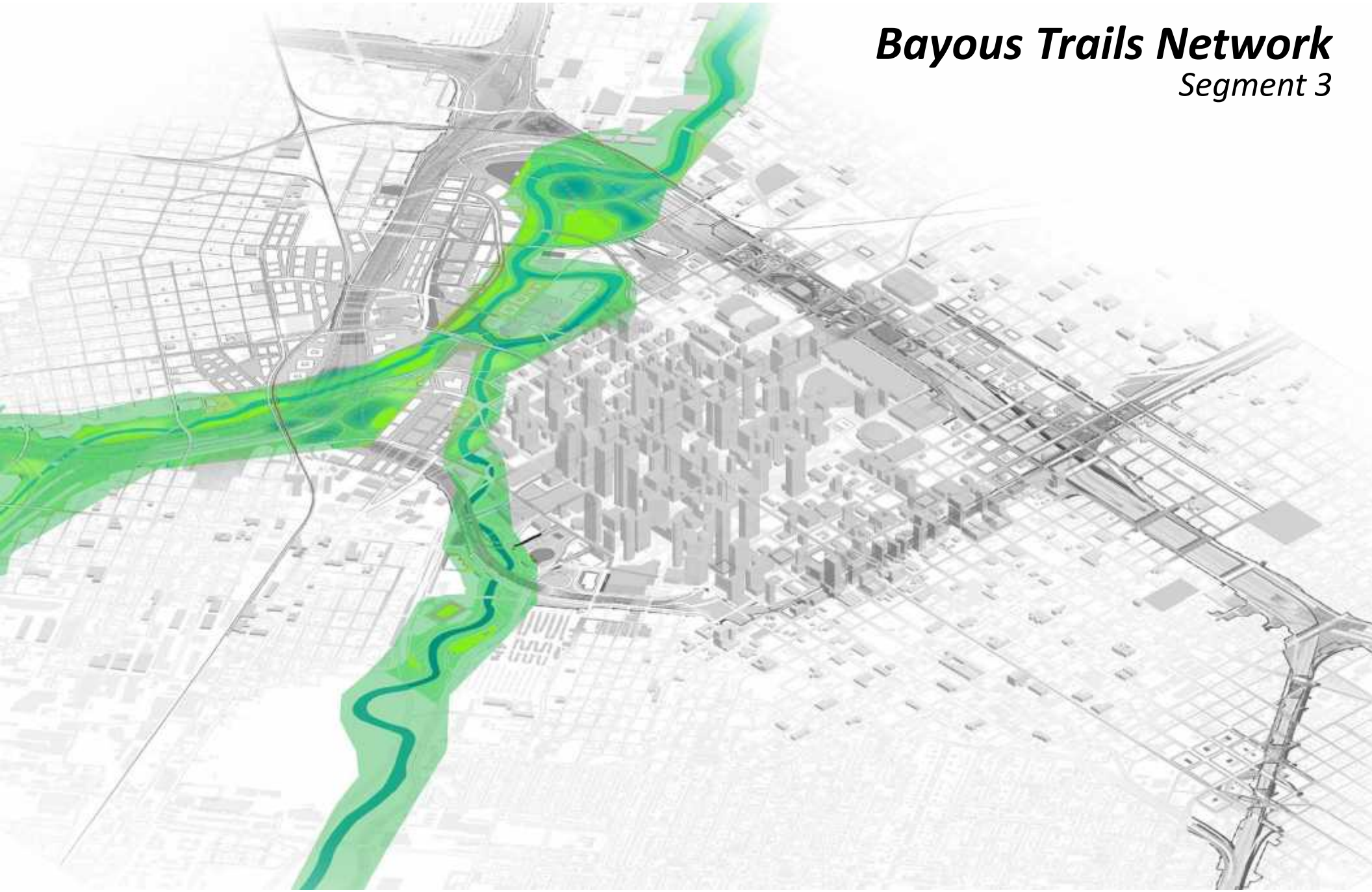
- 01 Midtown / Museum District Caps
- 02 Midtown and Third Ward Bridges
- 03 EaDo Greenway
- 04 EaDo Cap
- 05 Buffalo Bayou Wetland Park
- 06 Warehouse District
- 07 UH Downtown Campus / White Oak Bayou Park
- 08 Post Office and City Campus
- 09 Buffalo Bayou Gateway
- 10 Fourth Ward Connection
- 11 Pierce Street Redevelopment / Linear Park
- 12 North Main Cap
- 13 Little White Oak Bayou



***New Highway Alignment***  
*Segment 3*

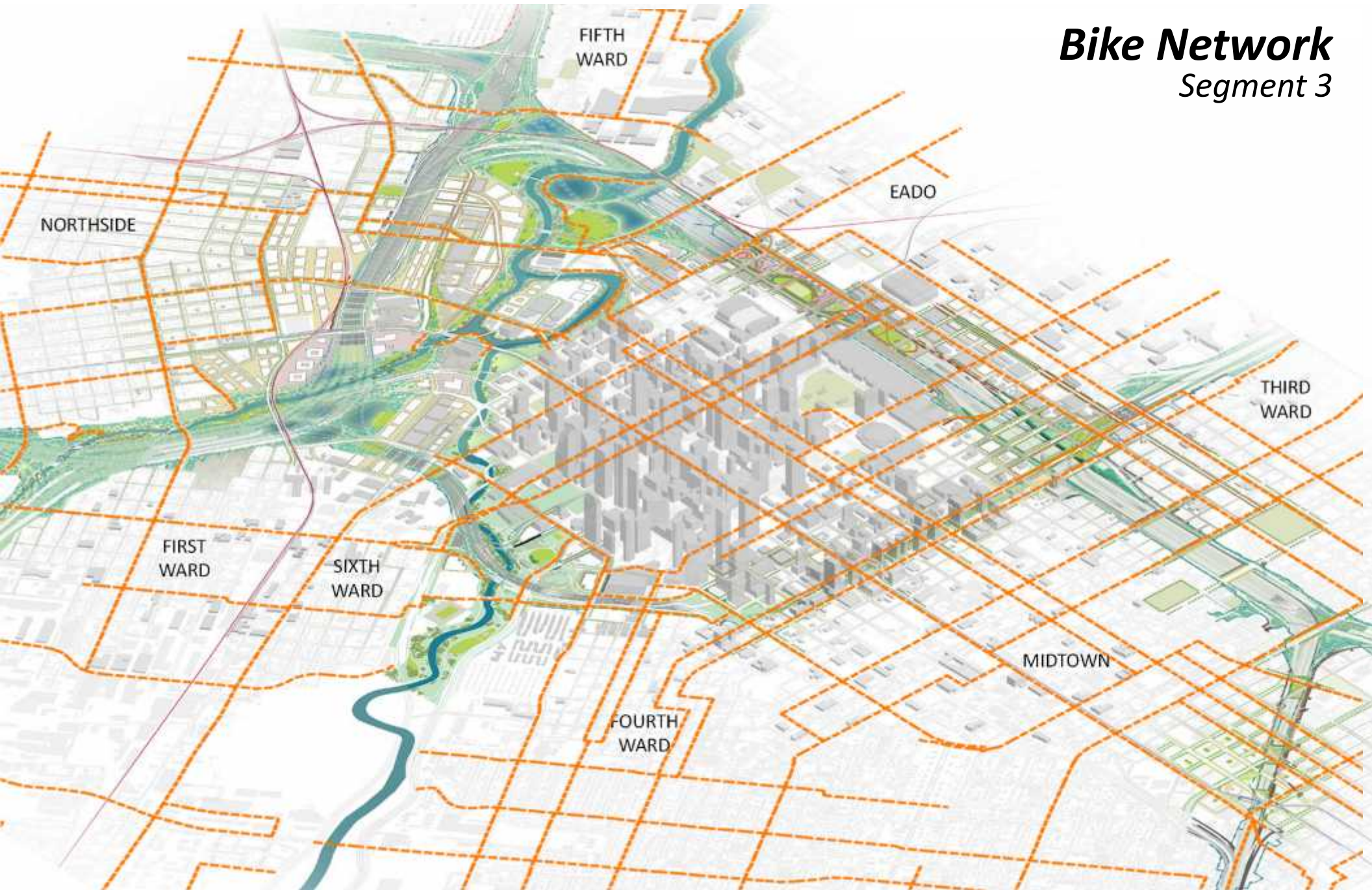


***Bayous Trails Network***  
*Segment 3*



# ***Bike Network***

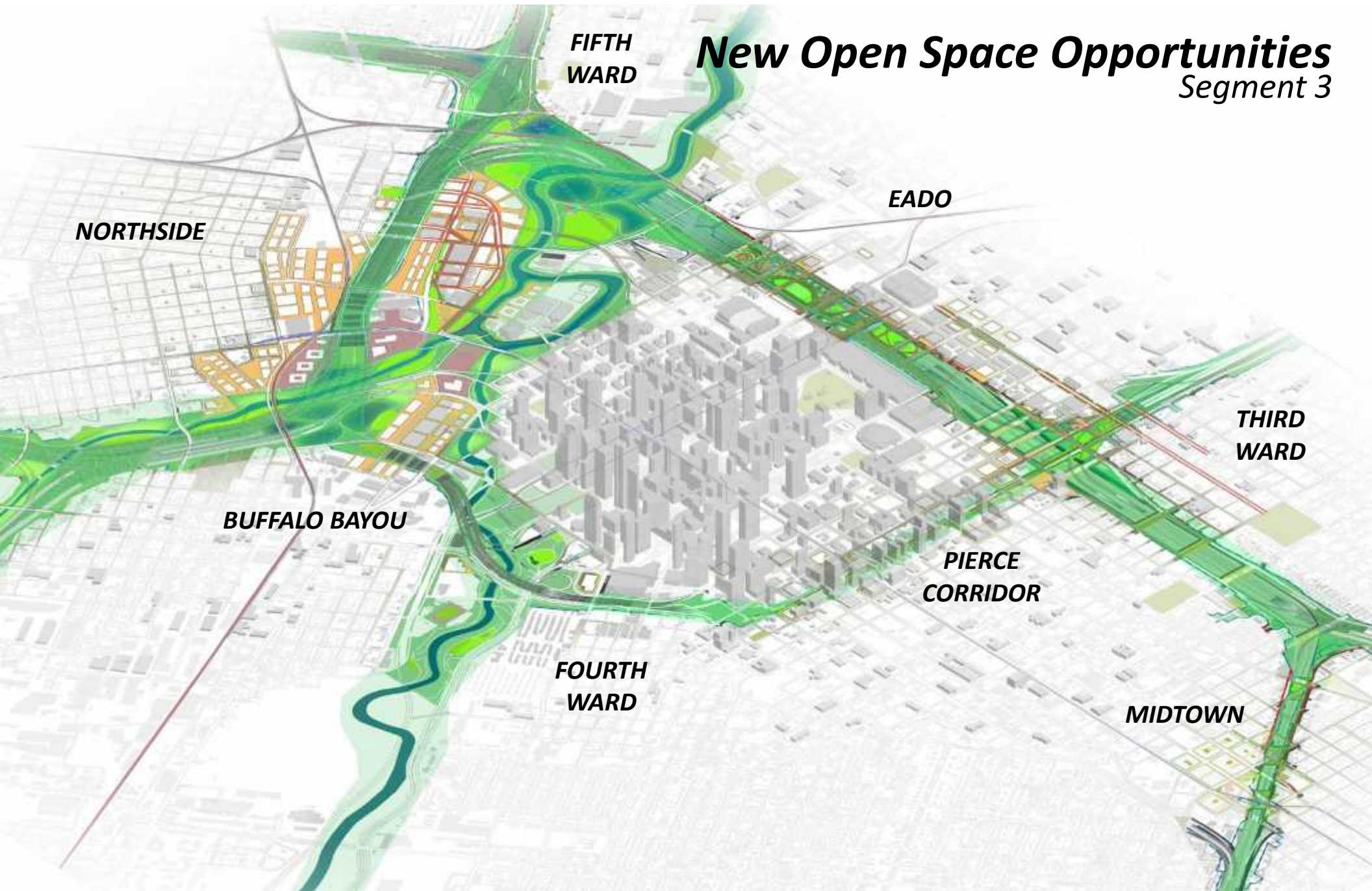
## *Segment 3*





# *New Open Space Opportunities*

*Segment 3*



**NORTHSIDE**

**FIFTH  
WARD**

**EADO**

**THIRD  
WARD**

**BUFFALO BAYOU**

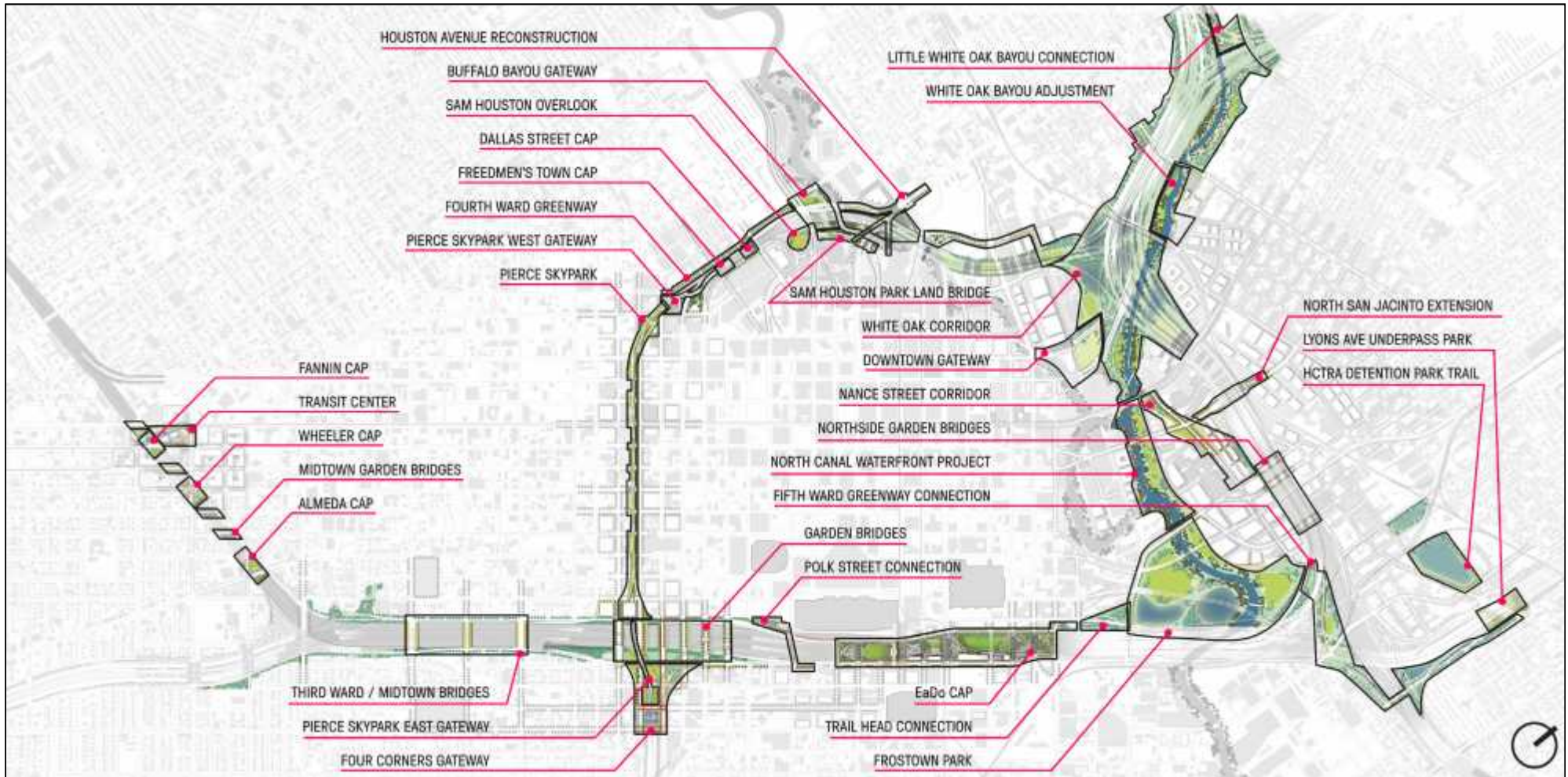
**PIERCE  
CORRIDOR**

**FOURTH  
WARD**

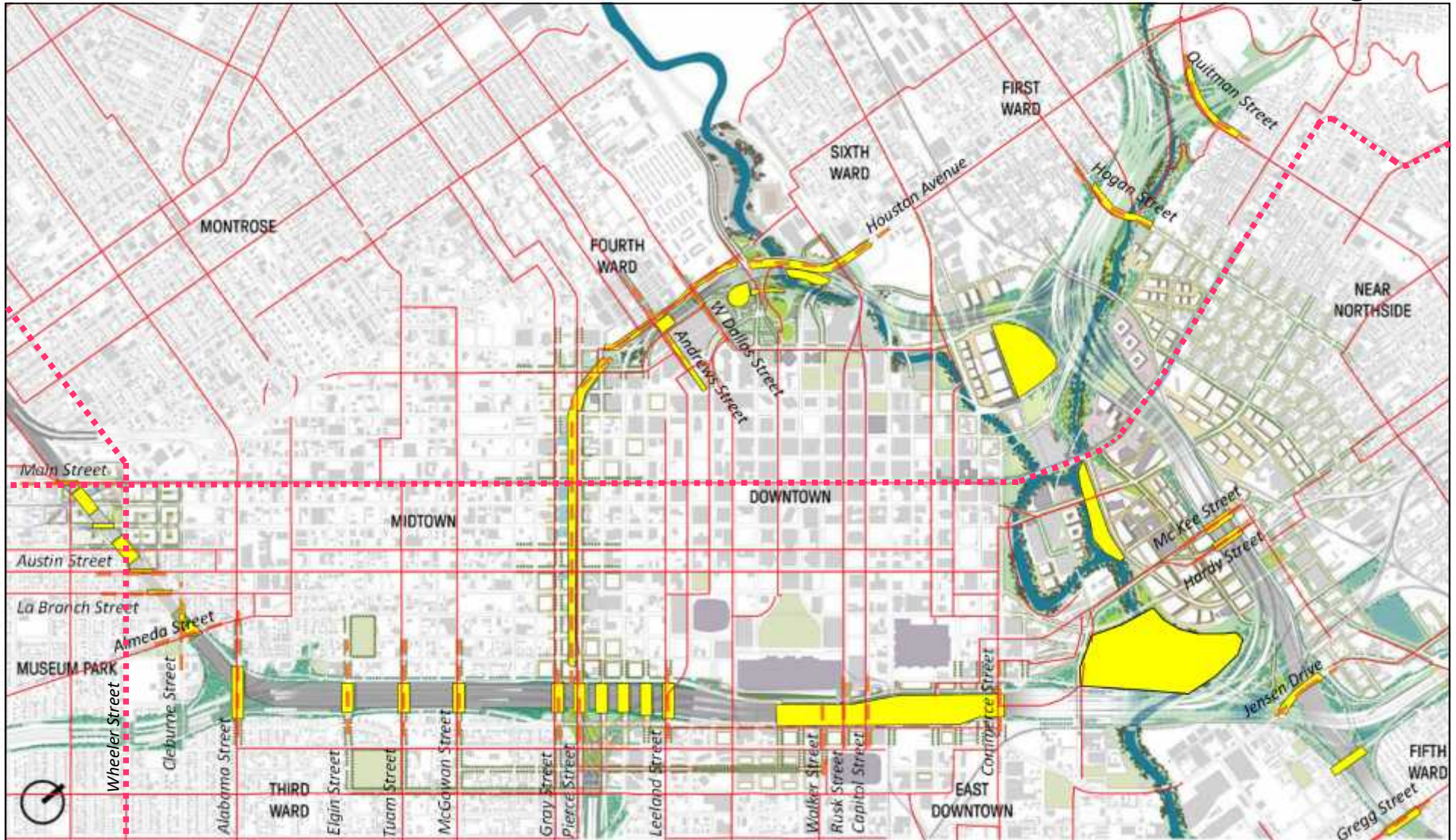
**MIDTOWN**

# North Houston Highway Improvement Project

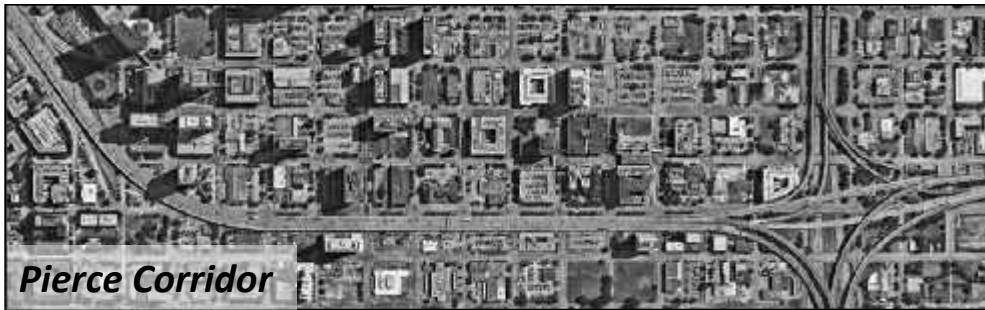
Segment 3 – January 2019



# NHHIP – Master Plan Segment 3



# ***NHHIP – Existing Highways***



# ***NHHIP – Civic Opportunities***



## *Fourth Ward - Andrews St Cap*



## *Pierce Corridor – Pierce Skypark*



# ***EaDo – EaDo Cap Park***





# *Fifth Ward - Frostown Crossing*



# *Buffalo Bayou – Market Place*



## *Midtown - Alameda Cap/Bridge*



# *Midtown – Civic Opportunities*

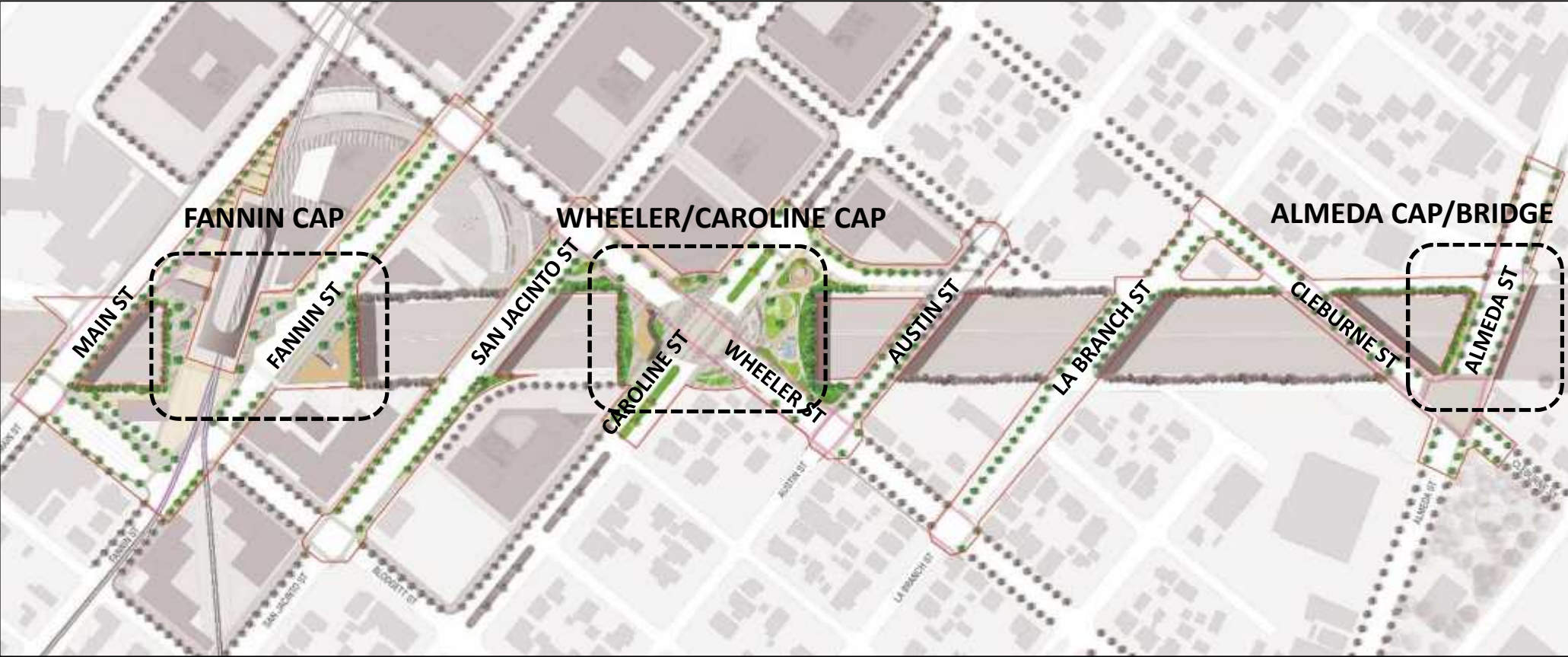


*Midtown Aerial - Before*



*Midtown Aerial - After*

# Midtown – Cap Parks



# Midtown – Fannin Cap



*Gathering Space  
Over Cafe*

*Multi-modal  
Connections*

*Walkable, Active  
Spaces*

# *Midtown – Wheeler/ Caroline Cap*

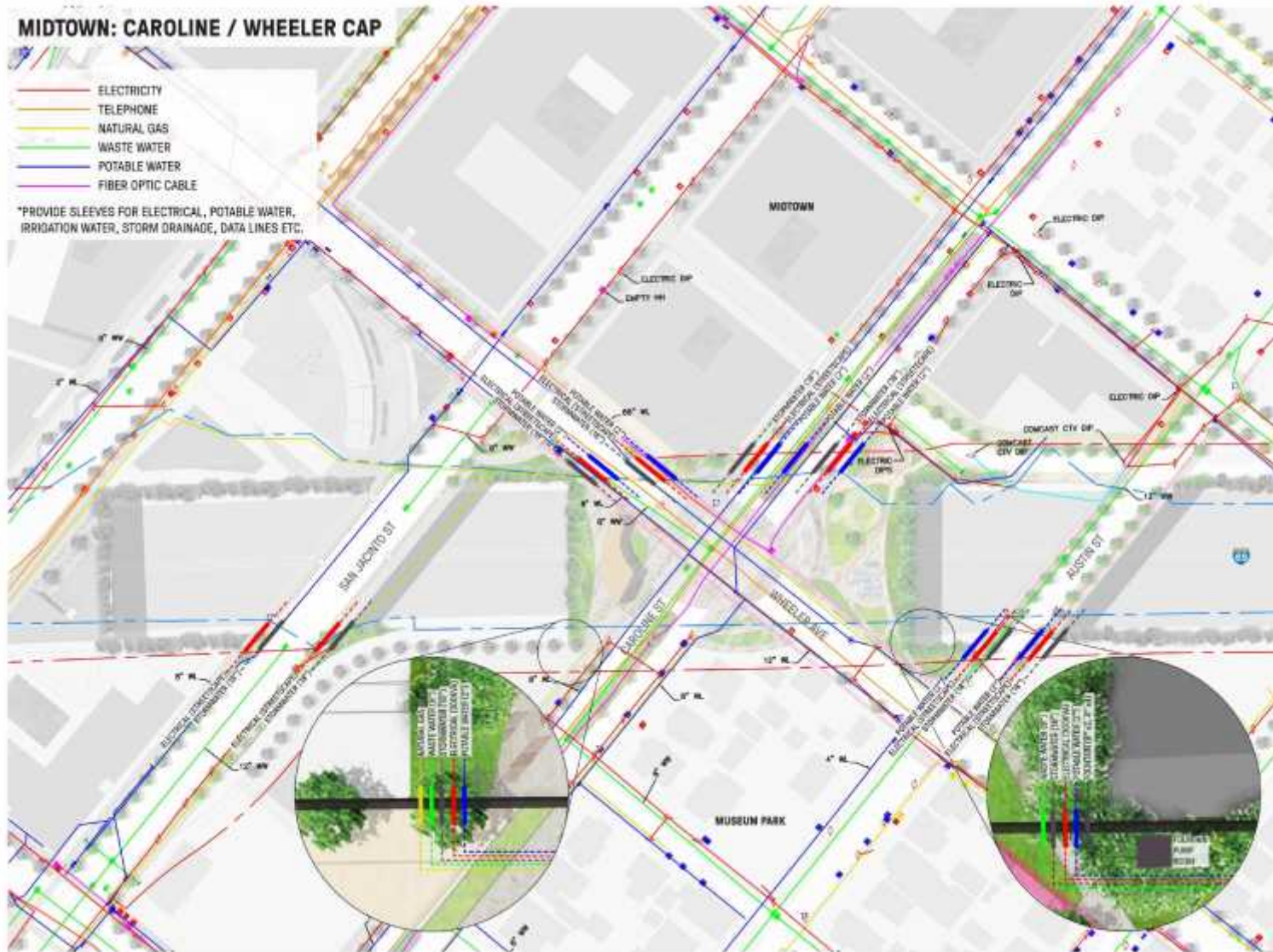


*Art, Cultural Plaza*

*Walkable, Active Spaces*

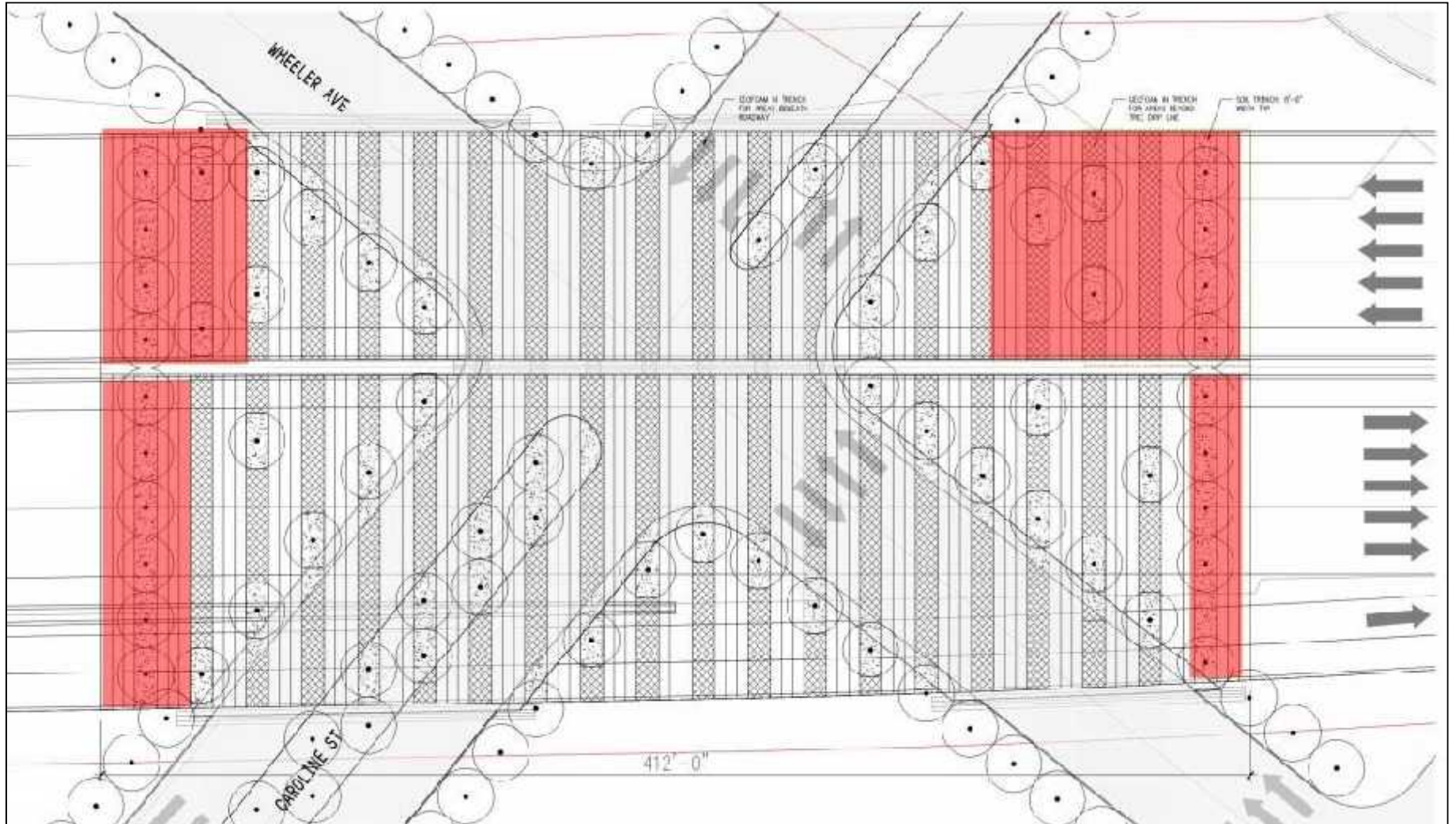
*Water Feature as a Play Feature*

# Midtown – Wheeler / Caroline Cap Deck Construction – Utilities

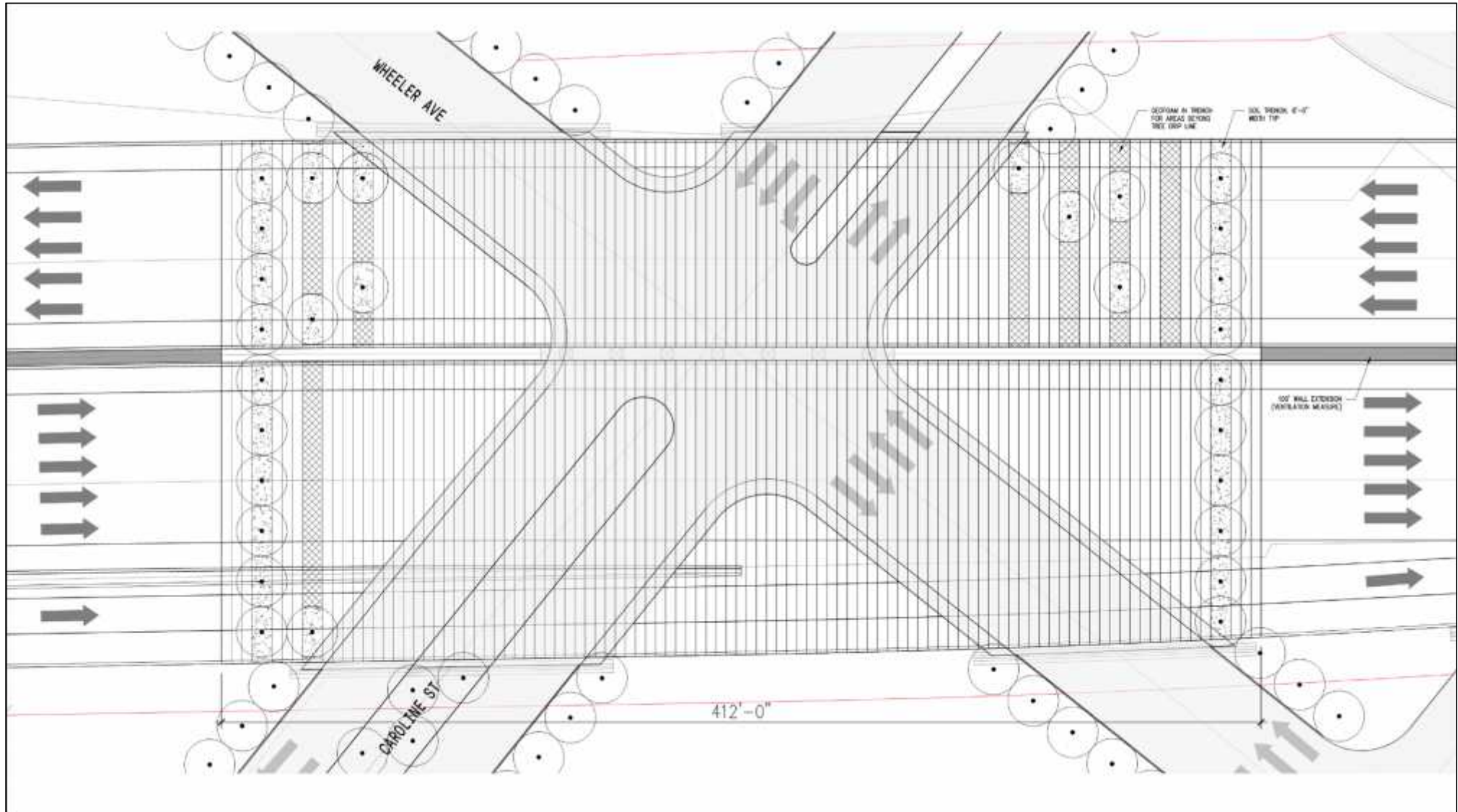




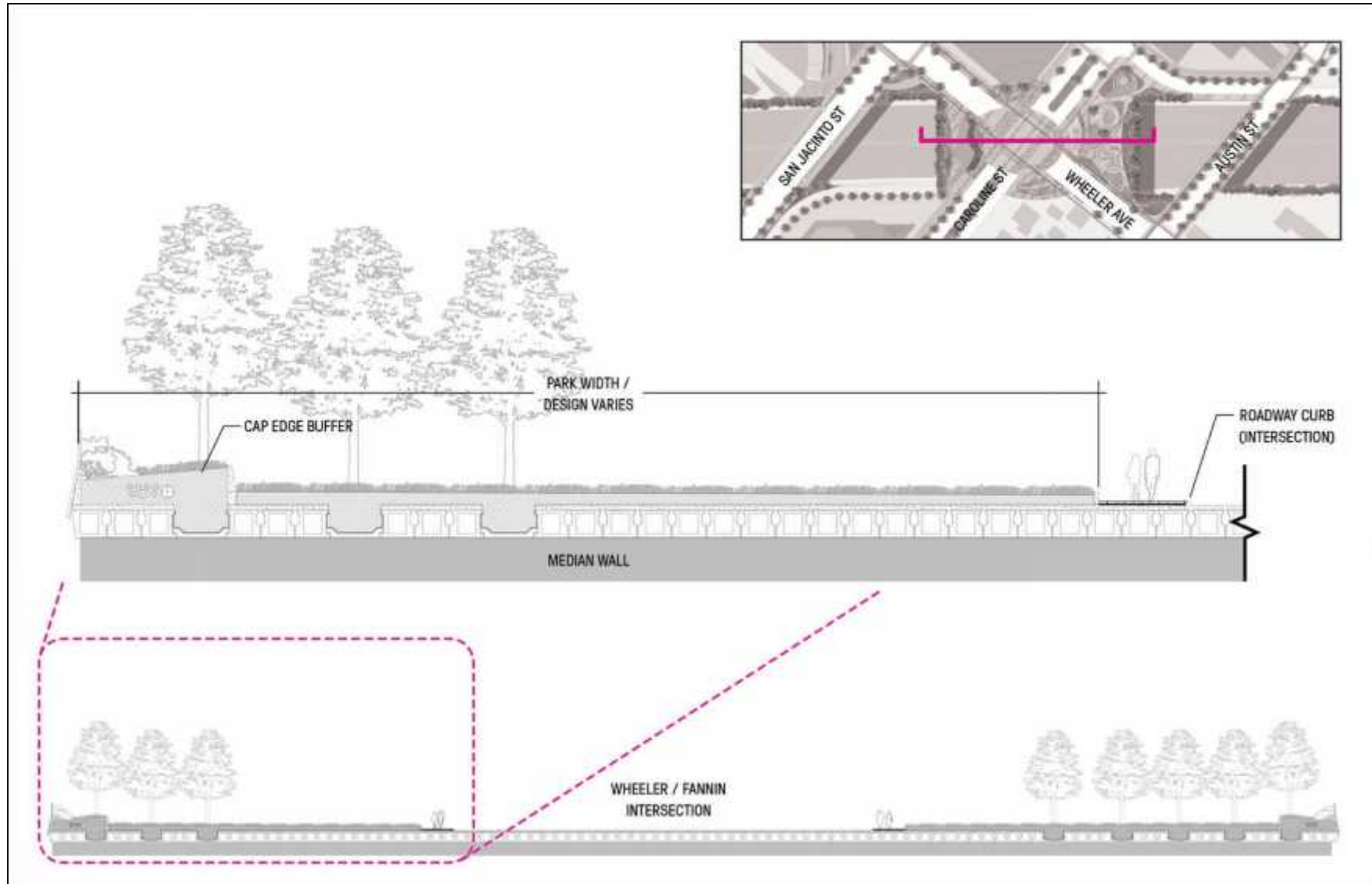
# Midtown – Wheeler / Caroline Cap Deck Construction – Box Beam Plan



# Midtown – Wheeler / Caroline Cap Deck Construction – Box Beam Plan



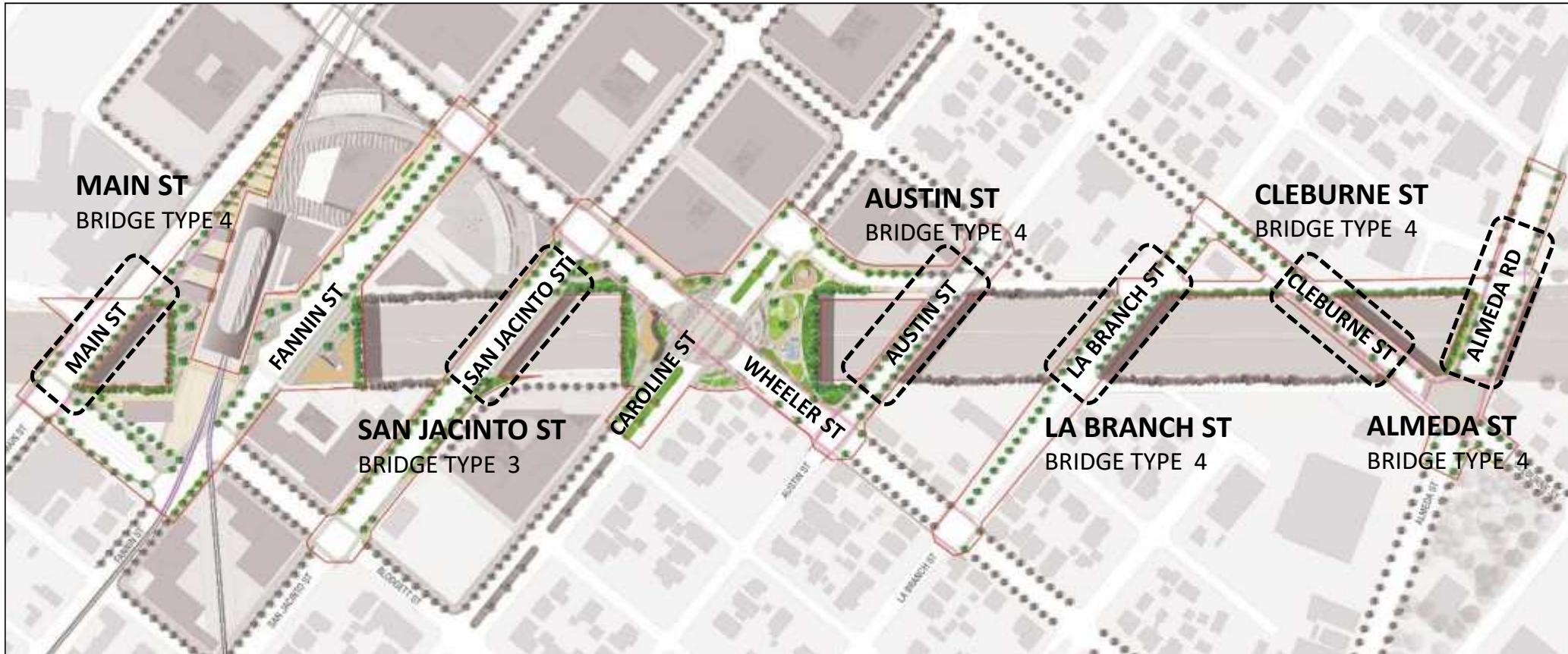
# Midtown – Wheeler / Caroline Cap Deck Construction – Box Beam Section



# ***Midtown – Wheeler / Caroline Cap*** *Deck Construction – Above Deck Plan*



# Midtown – Bridges



## *Midtown – Montrose Bridge*



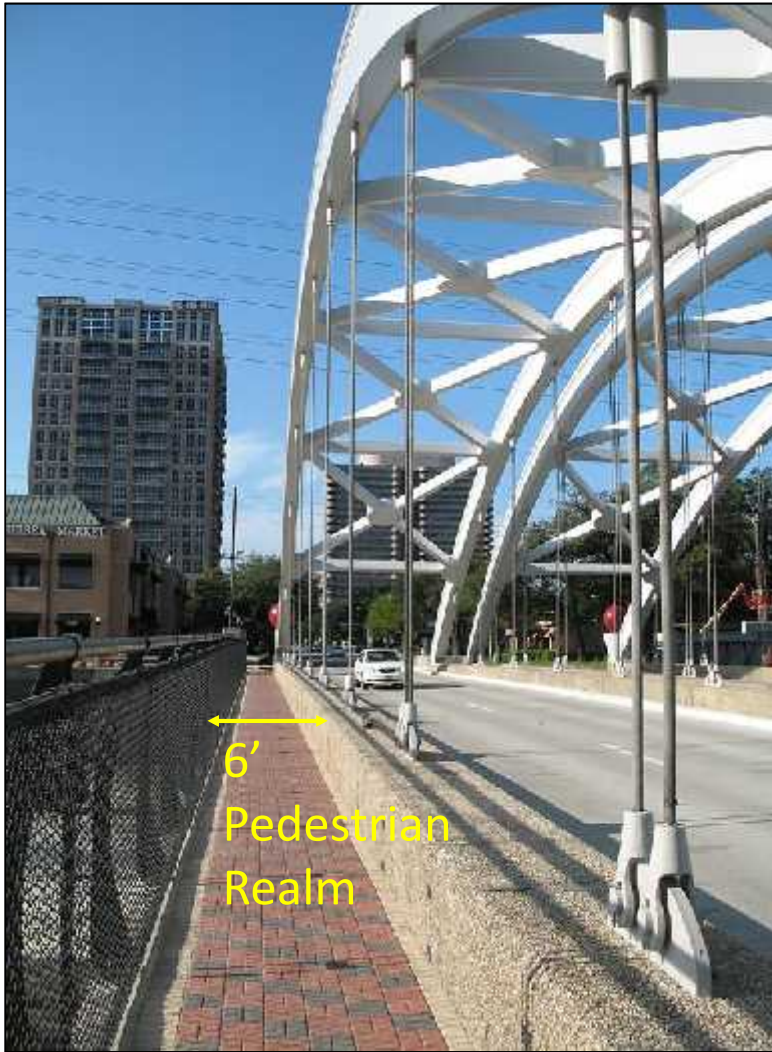
*Montrose Underpass - Before*



*Montrose Bridge - After*

# Midtown - Montrose Bridge

## Lesson Learned



## *Midtown - Garden Bridge*





## *Midtown - Garden Bridge*



# City of Houston Street Crossings

## Coordination with TxDOT

### NHHIP SEGMENT 3 CITY STREET CROSSINGS

STREET NAME	ELEVATION REL. TO FREEWAY (OVER/UNDER)	ON CAP (YES/NO)	# OF THROUGH LANES	TURN LANES	WIDTH PER LANE (FT)	COB BIKE PLAN DESIGNATION	BIKE LANE PROPOSED (YES/NO)	NORTH OR EAST PED REALM				SOUTH OR WEST PED REALM			
								TOTAL PED REALM WIDTH NORTH OR EAST SIDE (FT)	PED REALM: SIDEWALK NORTH OR EAST SIDE (FT)	BIKE LANE NORTH OR EAST SIDE (FT)	TREE/FURNITURE ZONE NORTH OR EAST SIDE (FT)	TOTAL PED REALM WIDTH SOUTH OR WEST SIDE (FT)	PED REALM: SIDEWALK SOUTH OR WEST SIDE (FT)	PED REALM: BIKE LANE SOUTH OR WEST SIDE (FT)	PED REALM: TREE/FURNITURE ZONE SOUTH OR WEST SIDE (FT)
MAIN (I-69)	OVER	NO	4		11	SHARED	YES	17	7	5	5	17	7	5	5
FANNIN	OVER	YES	3		11	NONE	NO	15	10	0	5	15	10	0	5
SAN JACINTO (I-69)	OVER	NO	4		11	NONE	NO	15	10	0	5	15	10	0	5
CAROLINE	OVER	YES	2		11	NONE	NO	10	5	0	5	10	5	0	5
WHEELER	OVER	YES	4		11	NONE	NO	15	10	0	5	15	10	0	5
AUSTIN	OVER	NO	2		11	DEDICATED	YES	17	7	5	5	17	7	5	5
LA BRANCH	OVER	NO	2		11	DEDICATED	YES	17	7	5	5	17	7	5	5
CLEBURNE (I-69)	OVER	NO	2		11	DEDICATED	YES	17	7	5	5	17	7	5	5
ALMEDA	OVER	NO	4	1 left turn	11	DEDICATED	YES	17	7	5	5	17	7	5	5
ALABAMA	OVER	NO	4		11	DEDICATED	YES	17	7	5	5	10	5	5	0
CLEBURNE (SH 288)	UNDER	NO	2		11	NONE	YES	17	7	5	5	17	7	5	5
ELGIN	OVER	NO	5		11	NONE	YES	17	7	5	5	17	7	5	5
TIJAM	OVER	NO	3		11	SHARED	YES	17	7	5	5	17	7	5	5
MCGOWEN	OVER	NO	5		11	DEDICATED	YES	17	7	5	5	17	7	5	5
GRAY	OVER	NO	3		11	DEDICATED	YES	17	7	5	5	12	7	0	5
PIERCE	OVER	NO	3		11	DEDICATED	YES	12*	7	0	5	17	7	5	5
ST. JOSEPH	OVER	NO	3		11	NONE	NO	12	7	0	5	12	7	0	5
JEFFERSON	OVER	NO	4		11	NONE	NO	12	7	0	5	12	7	0	5
PEASE	OVER	NO	4		11	NONE	NO	12	7	5	5	12	7	0	5
LEELAND	OVER	NO	5	1 left turn	11	DEDICATED	YES	17	7	5	5	17	7	5	5
LAMAR	OVER	YES	1	1 left turn	11	NONE	NO	10*	5	0	5	0	0	0	0
MACKINNEY	OVER	YES	4		11	NONE	NO	10	5	0	5	10	5	0	5
WALKER	OVER	YES	N/A		N/A	DEDICATED	YES	17	7	5	5	17	7	5	5
RUSK	OVER	YES	3		11	DEDICATED	YES	12*	7	0	5	17	7	5	5
CAPITOL	OVER	YES	3		11	DEDICATED	YES	12*	7	0	5	12*	7	0	5
TEXAS	OVER	YES	5	2 left turn*	11	NONE	NO	15	10	0	5	15	10	0	5
PRESTON	OVER	YES	3	1 left turn	11	NONE	NO	15	10	0	5	15	10	0	5
CONGRESS	OVER	YES	3		11	NONE	NO	15	10	0	5	15	10	0	5
FRANKLIN	OVER	YES	4		11	NONE	NO	10	5	0	5	10	5	0	5
COMMERCE	OVER	YES	3		11	DEDICATED	YES	17	7	5	5	12*	7	0	5
BRIGG	UNDER	NO	5		11	DEDICATED	YES	17	7	5	5	17	7	5	5
MEADOW	OVER	NO	2		11	NONE	NO	10	5	5	5	10	5	0	5
JENSEN	UNDER	NO	5		11	DEDICATED	YES	17	7	5	5	17	7	5	5
NARDY	OVER	NO	2		11	DEDICATED	YES	17	7	5	5	17	7	5	5
MAKER	OVER	NO	2		11	DEDICATED	YES	12	7	0	5	17	7	5	5
SAN JACINTO (I-30) (FUT)	UNDER	NO	4		11	N/A	YES	17	7	5	5	17	7	5	5
BUNNELS (FUTURE)	UNDER	NO		4	11	N/A	YES	17	7	5	5	17	7	5	5
MAIN (I-30)	UNDER	NO	N/A		N/A	NONE	NO	N/A	5	5	N/A	N/A	7	5	N/A
HOGAN	OVER	NO	4		11	DEDICATED	YES	17	7	5	5	17	7	5	5
HOUSTON	OVER	NO	4		11	DEDICATED	YES	17	7	5	5	17	7	5	5
QUITMAN	UNDER	NO	4		11	DEDICATED	YES	17	7	0	5	17	7	5	5
ALLEN PARKY	UNDER	NO	7		11	DEDICATED	YES	10	5	5	5	10	5	0	5
WEST DALLAS	OVER	NO	4		11	DEDICATED	YES	17	7	5	5	17	7	5	5
ANDREWS	OVER	NO	N/A		N/A	DEDICATED	YES	17	7		5	17	7	5	5

# City of Houston Street Crossings

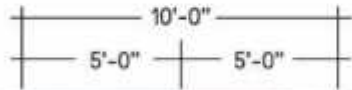
## Bridge Types

### TYPE 1 BRIDGE

5' WALK / 5' TREE ZONE / NO BIKE LANE = 10' - 0"

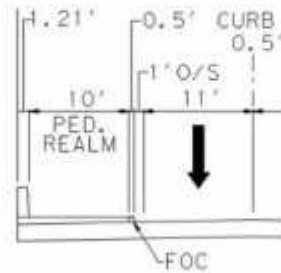
#### Applicable Bridges:

- Caroline Street (Cap)
- Franklin Street (Cap)
- Lamar Street (Cap)
- Meadow Street
- McKinney Street (Cap)



#### COH Streets and Crossings:

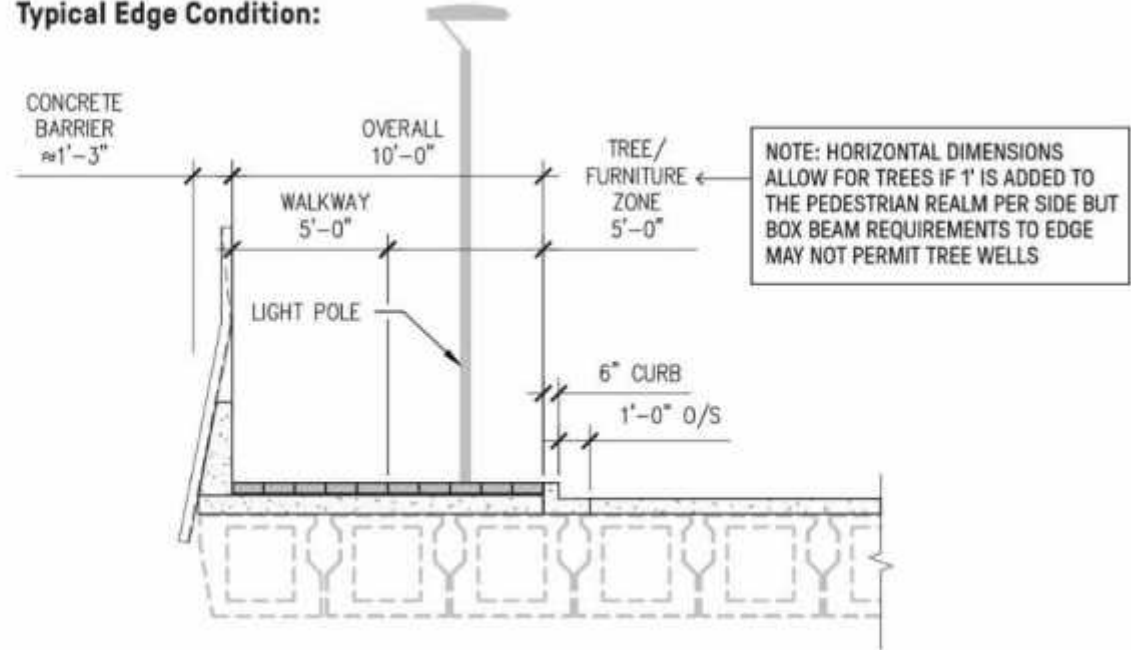
10' Pedestrian Realm = 10'-0"



#### Materials:



#### Typical Edge Condition:

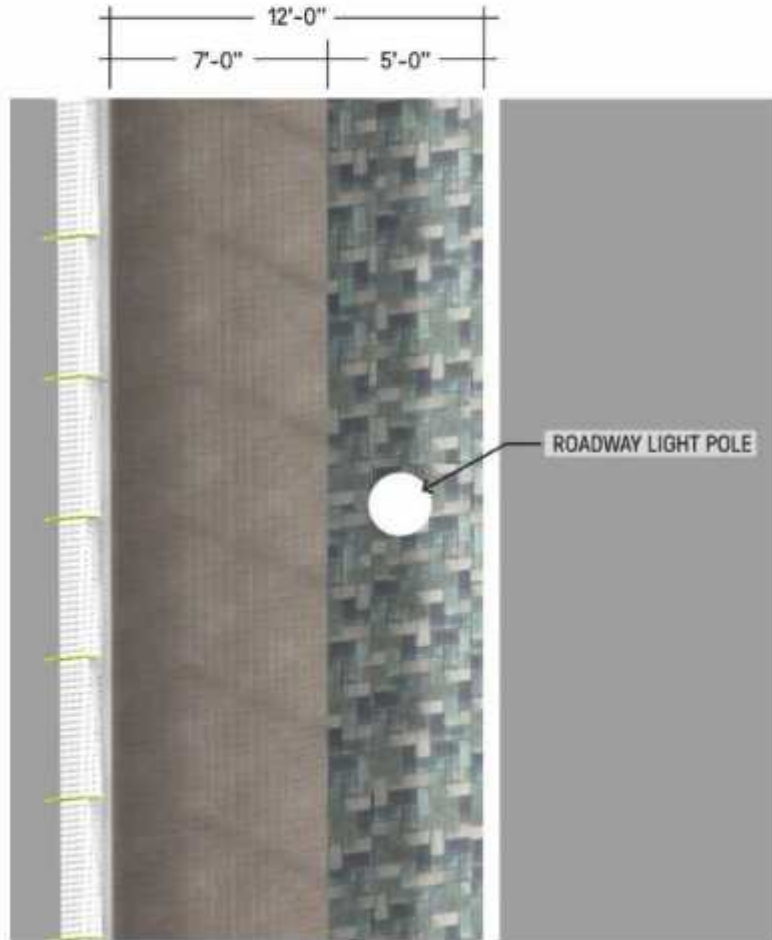


## TYPE 2 BRIDGE

7' WALK + 5' TREE ZONE = 12'-0"

### Applicable Bridges:

St. Joseph Pkwy  
Jefferson Street  
Pease Street

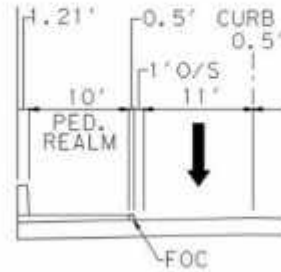


# City of Houston Street Crossings

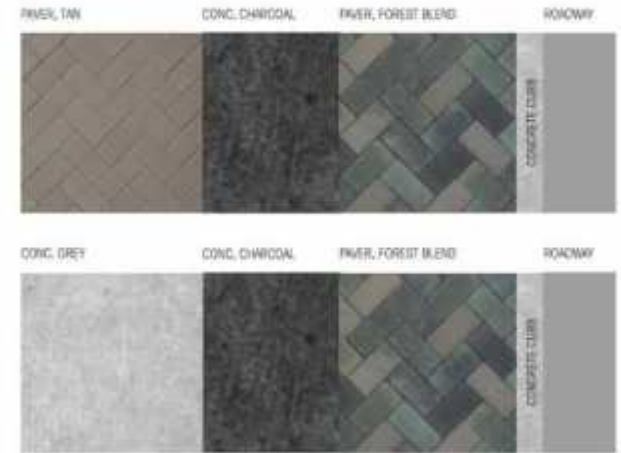
## Bridge Types

### COH Streets and Crossings:

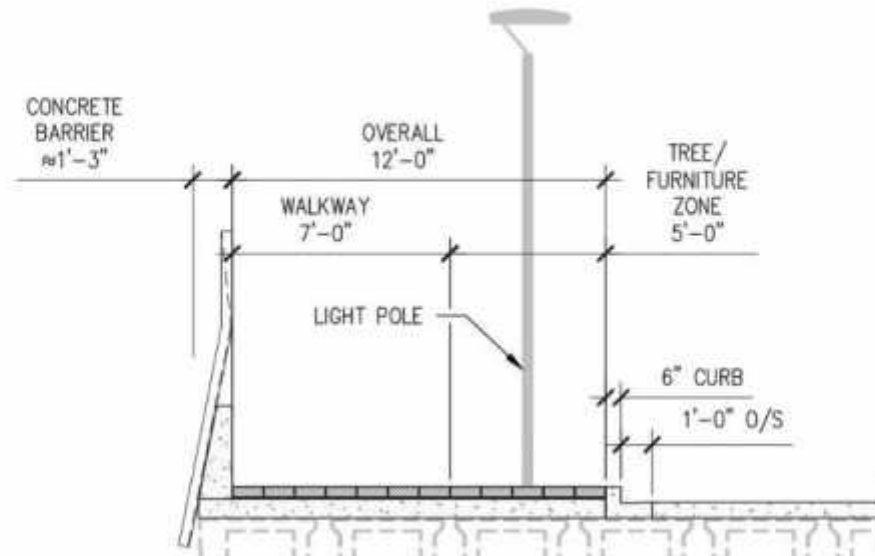
10' Pedestrian Realm = 10'-0"



### Materials:



### Typical Edge Condition:



# City of Houston Street Crossings

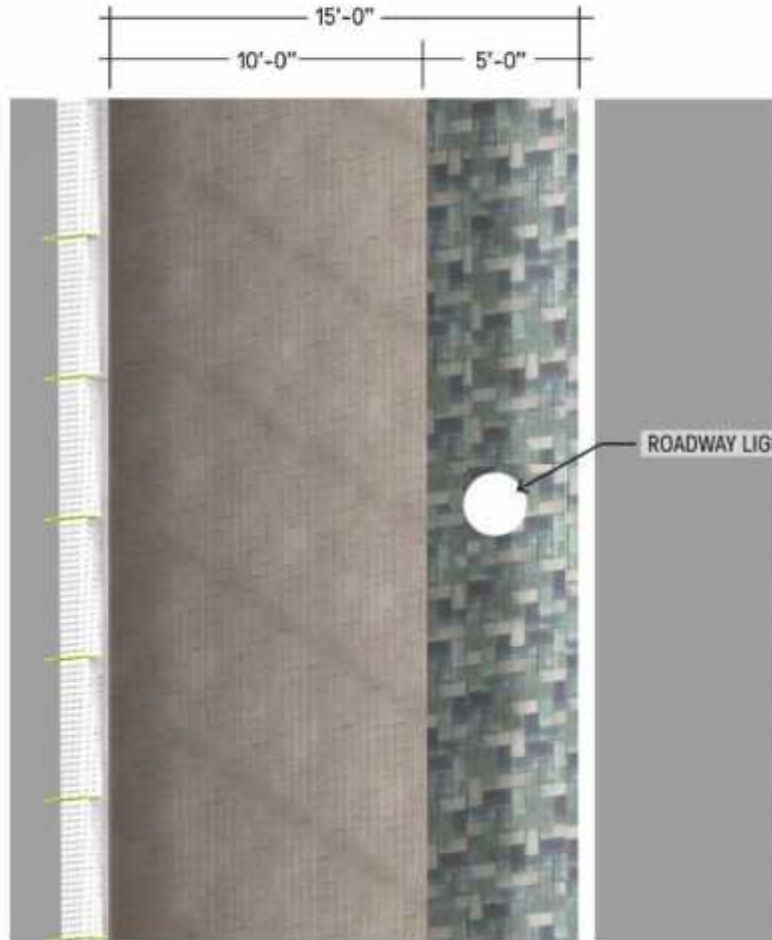
## Bridge Types

### TYPE 3 BRIDGE

10' WALK + 5' TREE ZONE = 15'-0"

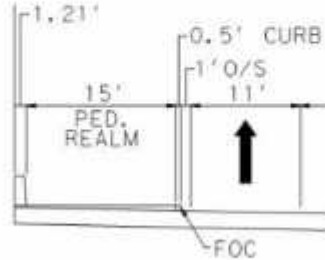
#### Applicable Bridges:

- Fannin Street (Cap)
- San Jacinto Street
- Wheeler Street (Cap)
- Texas Avenue (Cap)
- Preston Street (Cap)
- Congress Street (Cap)

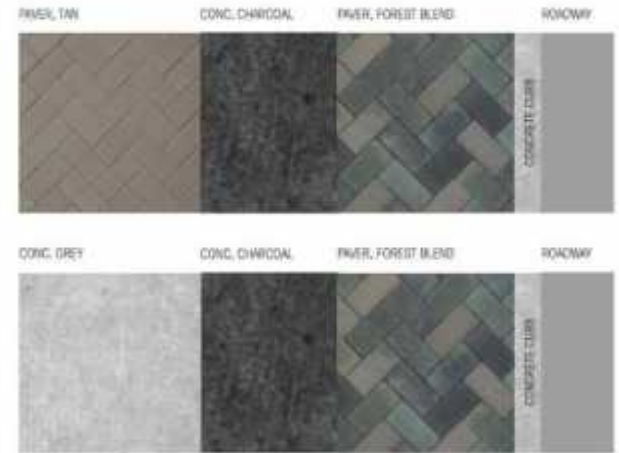


#### COH Streets and Crossings:

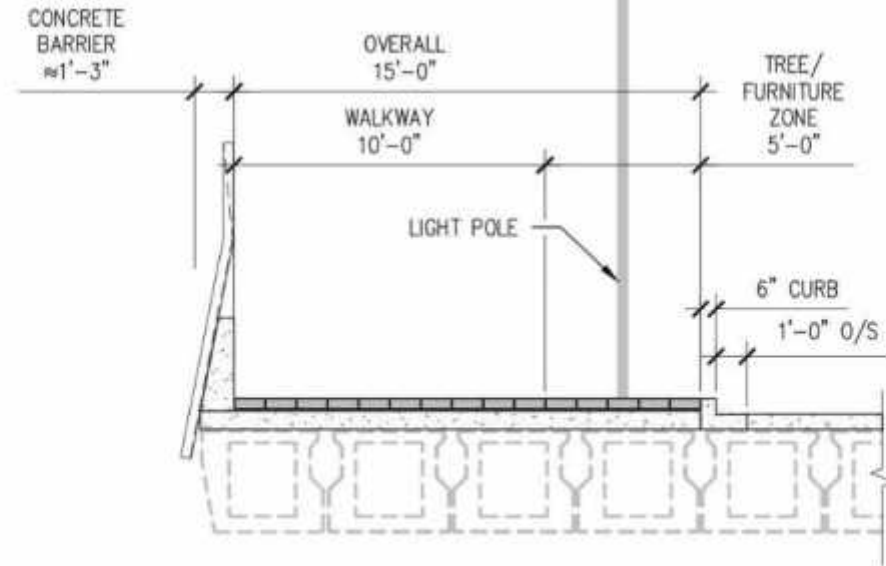
10' Pedestrian Realm = 10'-0"



#### Materials:



#### Typical Edge Condition:

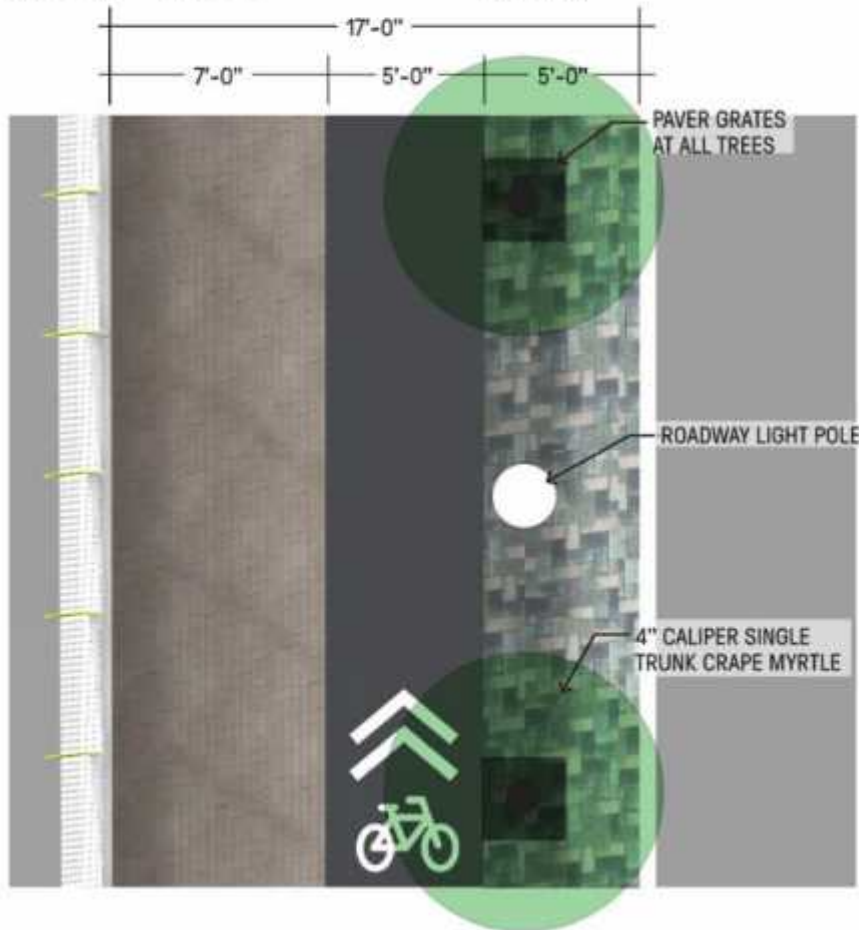


## TYPE 4B BRIDGE

7' WALK + 5' BIKE LANE + 5' TREE ZONE = 17'-0"

### Applicable Bridges:

Montrose St	Alabama St	Walker St	McKee St	West Dallas
Main St	Elgin St	Rusk St	N San Jacinto St (Future)	Andrews St
Austin St	Tuam St	Capitol St	Runnels St (Future)	Gregg St
La Branch St	McGowen St	Commerce St	Hogan St	Hardy St
Cleburne St	Gray St		Quitman St	
Almeda Rd	Pierce St		Allen Pkwy	

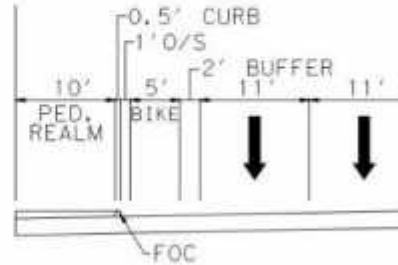


# City of Houston Street Crossings

## Bridge Types

### COH Streets and Crossings:

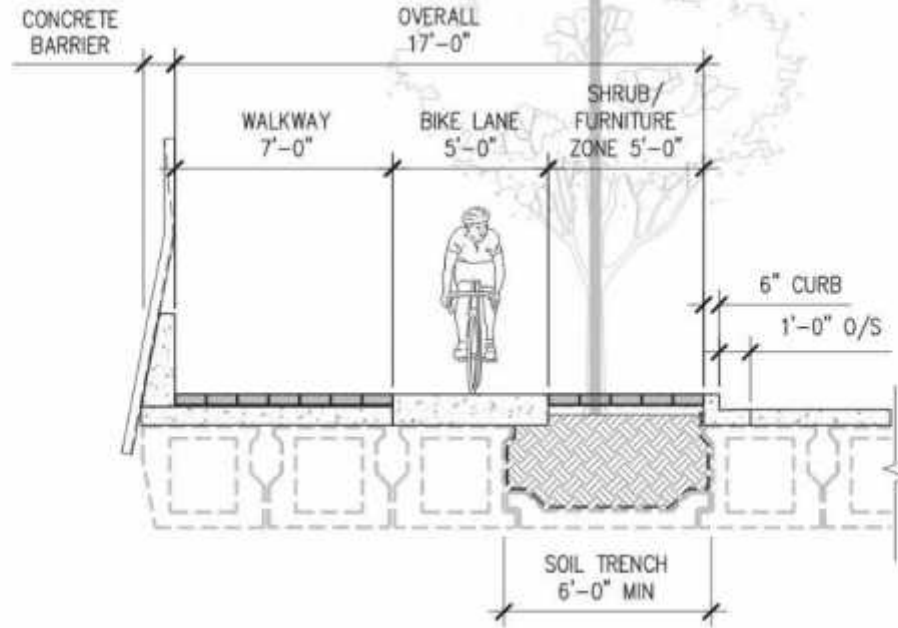
15' Pedestrian Realm = 15'-0"



### Materials:



### Typical Edge Condition:



*Midtown - Garden Bridge*



*Midtown - Garden Bridge*





# *Midtown - Garden Bridge*

## *Bridge Railing*



# TYPICAL GARDEN BRIDGE

AUSTIN ST



## ***TxDOT Design Build Schedule- Segment 3***

- |  |                    |              |
|--|--------------------|--------------|
| • <i>Request for Qualifications</i>        | <i>April</i>       | <i>2019</i>  |
| • <i>Short list proposers</i>              | <i>August</i>      | <i>2019</i>  |
| • <i>Issue Draft Request for Proposals</i> | <i>September</i>   | <i>2019</i>  |
| • <i>Final EIS/ ROD</i>                    | <i>Late</i>        | <i>2019</i>  |
| • <i>Issue Final Request for Proposals</i> | <i>March</i>       | <i>2020</i>  |
| • <i>(Design-Bid-Build project letting</i> | <i>August</i>      | <i>2020)</i> |
| • <i>Proposal Submissions to TxDOT</i>     | <i>September</i>   | <i>2020</i>  |
| • <i>Recommend Conditional Award</i>       | <i>October</i>     | <i>2020</i>  |
| • <i>Contract execution</i>                | <i>January</i>     | <i>2021</i>  |
| • <i>Early construction start</i>          | <i>Late spring</i> | <i>2021</i>  |