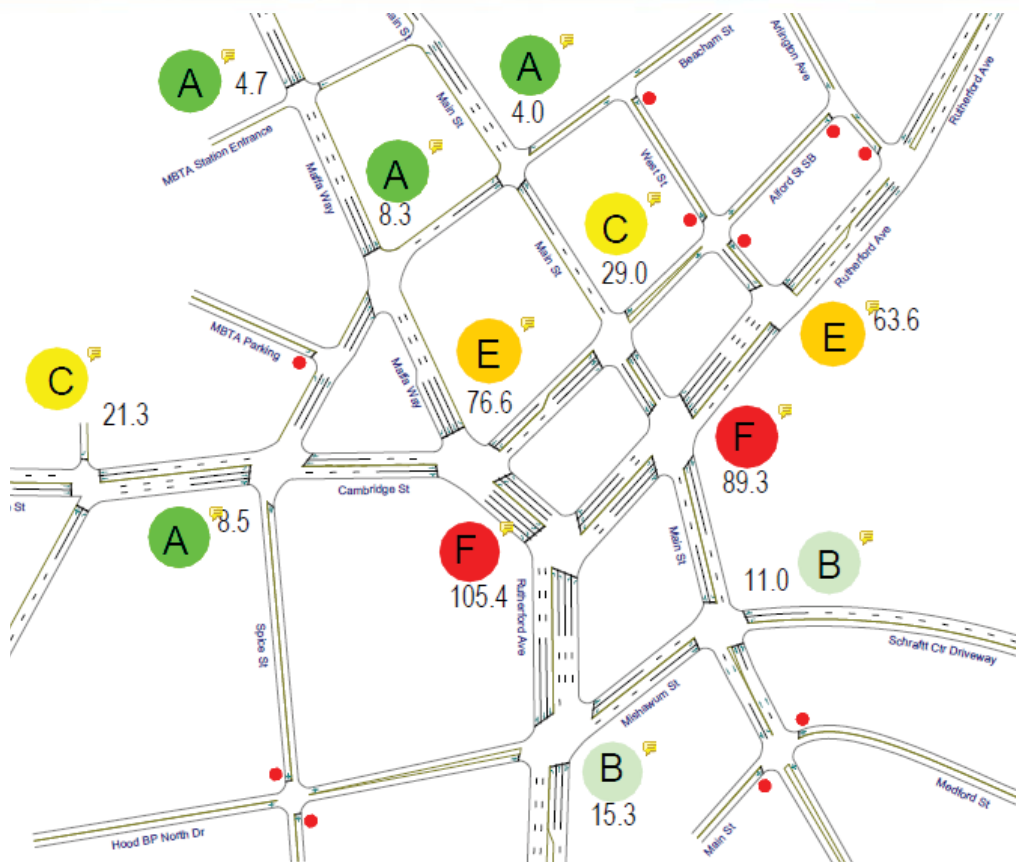# CITY of BOSTON

TRANSPORTATION

TRAFFIC ANALYSIS RESULTS – AM Peak - Tt

AT-GRADE CONCEPT

SYNCHRO Performance Measures

UNDERPASS CONCEPT

DRAFT

CITY *of* **BOSTON**

TRANSPORTATION
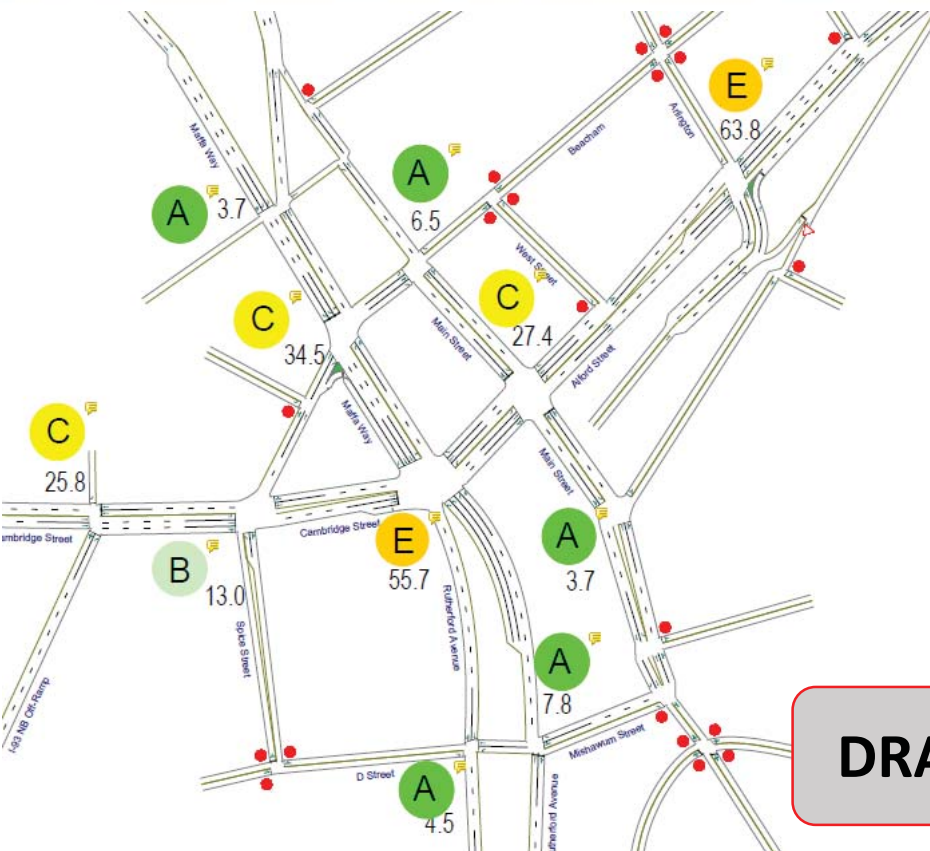
TRAFFIC ANALYSIS RESULTS – PM Peak - Tt

AT-GRADE CONCEPT

SYNCHRO Performance Measures
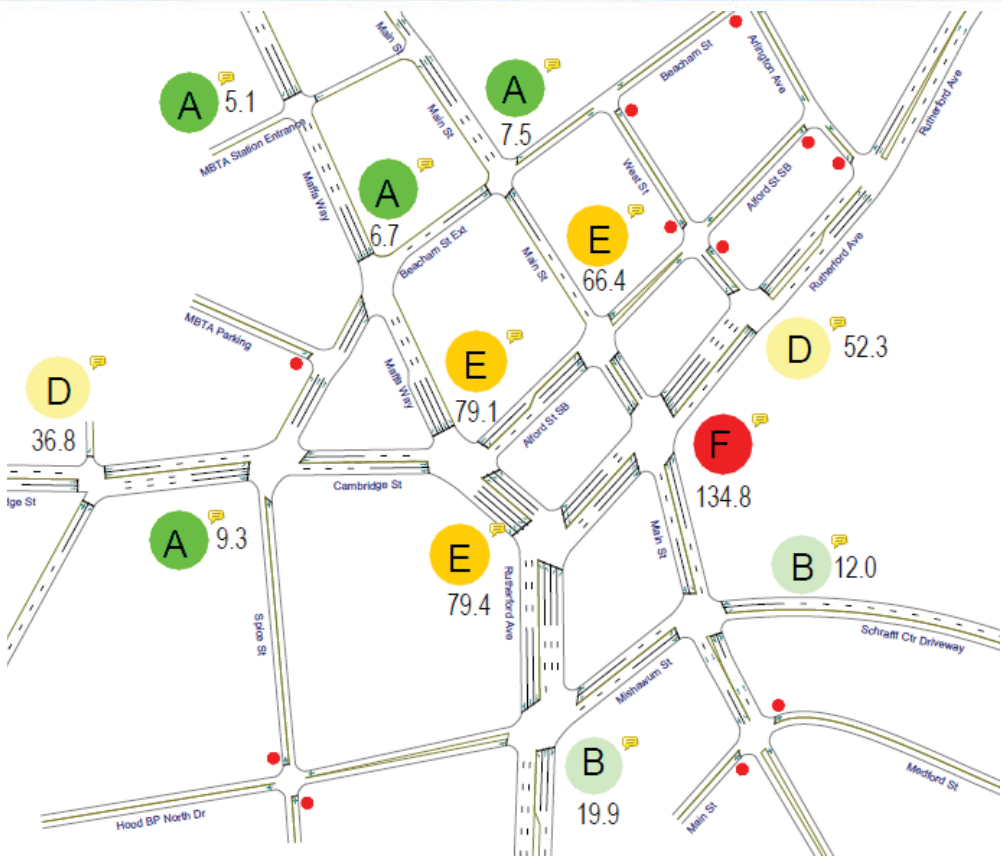
UNDERPASS CONCEPT

DRAFT

18

CITY of BOSTON

TRANSPORTATION
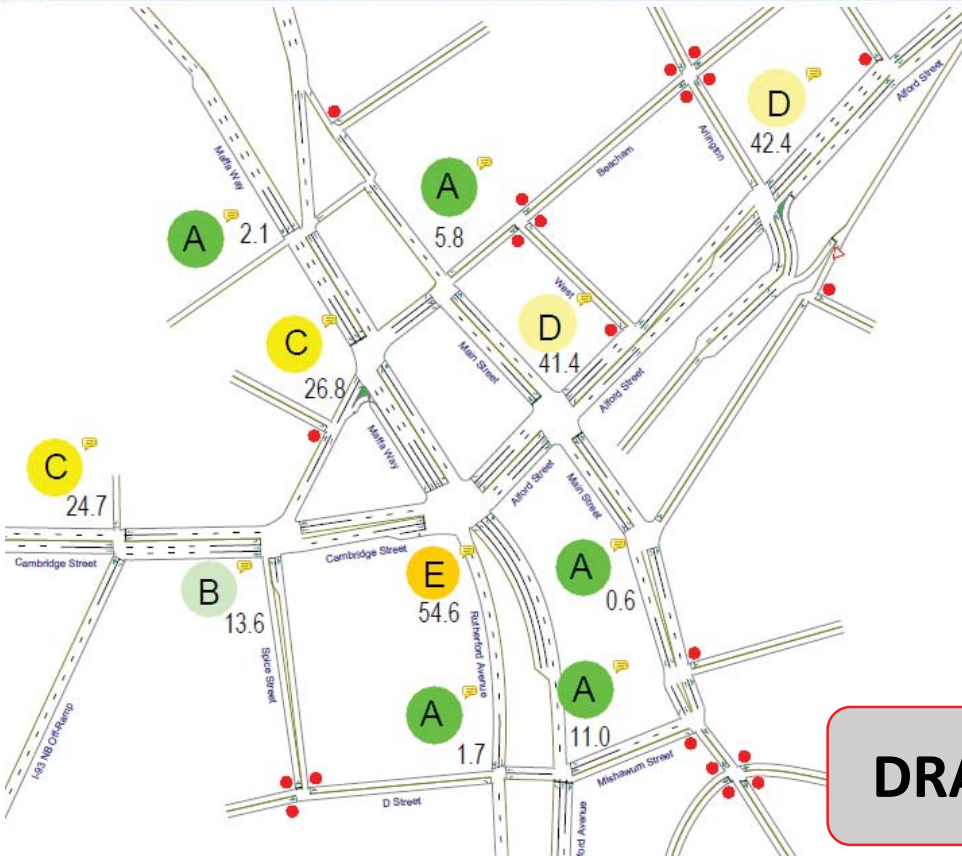
LOWER MYSTIC WORKING GROUP

LOWER MYSTIC REGIONAL WORKING GROUP

MassDOT | CTPS | MAPC | City of Boston | City of Everett | City of Somerville

CTPS Model Output - January 23, 2017 - Surface vs. Underpass

INT #	Intersection	City	AM Peak Hour Delay (Seconds)			PM Peak Hour Delay (Seconds)		
	Regional Location		2040 Surface	2040 Underpass	More Favorable	2040 Surface	2040 Underpass	More Favorable
32	Sullivan Square (Route 99 @ Mystic/Main/Cambridge)	Charlestown	106	65	Underpass	52	33	Underpass
31	Rutherford Ave @ Austin St/Gilmore Bridge	Charlestown	95	38	Underpass	115	67	Underpass
30	Rutherford Ave @ Rt 1 Ramps	Charlestown	75	31	Underpass	42	23	Underpass
29	City Square (Chelsea St @ Rutherford/No. Washington)	Charlestown	73	41	Underpass	92	51	Underpass
56	Main @ Austin St	Charlestown	36	18	Underpass	82	46	Underpass

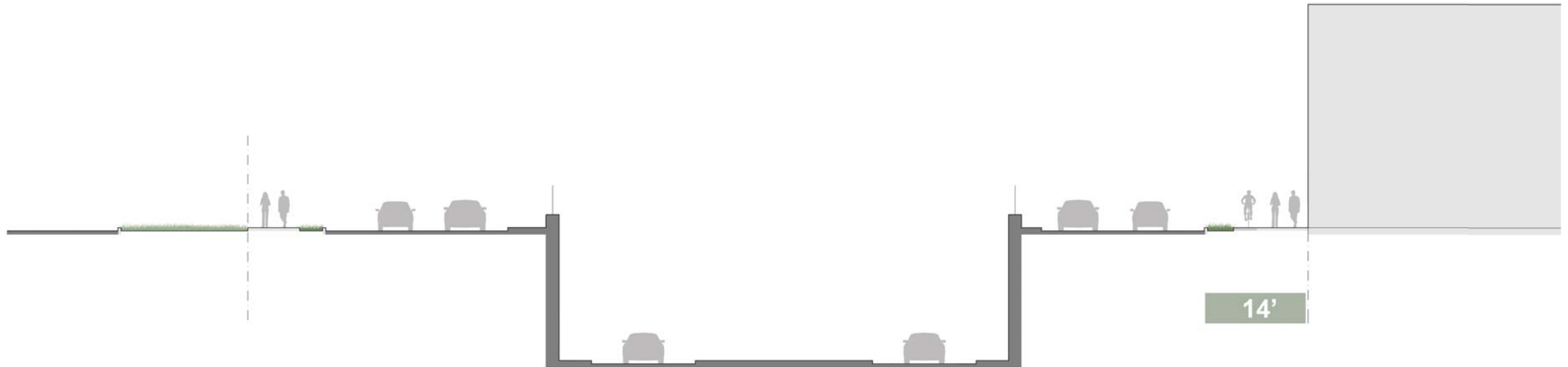Source: Lower Mystic Regional Working Group Final Presenation 1-23-2017

SYNCHRO Performance Measures

Rutherford Ave. Cross Section:
Existing at Mishawum St.

20'

RCIC
Rutherford Corridor Improvement Coalition
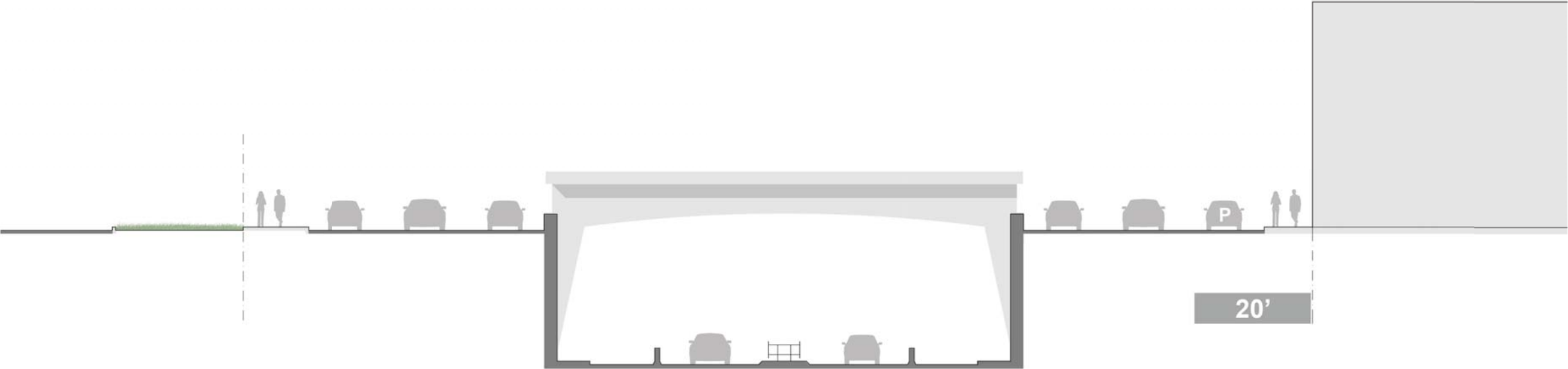
Rutherford Ave. Cross Section:
Underpass Option at Mishawum St.

14'

RCIC
Rutherford Corridor Improvement Coalition

Rutherford Ave. Cross Section:
Surface Option at Mishawum St.

50'+/- Neighborhood Buffer

RCIC
Rutherford Corridor Improvement Coalition

Rutherford Ave. Cross Section:
Surface Option at Mishawum St.

50'+/- Neighborhood Buffer

RCIC
Rutherford Corridor Improvement Coalition

Rutherford Ave. Cross Section:
Existing at Austin St.

10'

RCIC
Rutherford Corridor Improvement Coalition
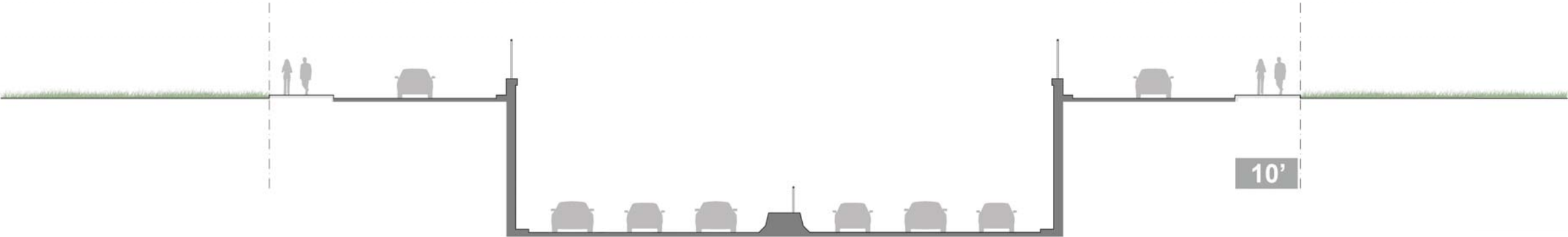
Rutherford Ave. Cross Section:
Underpass Option at Austin St.
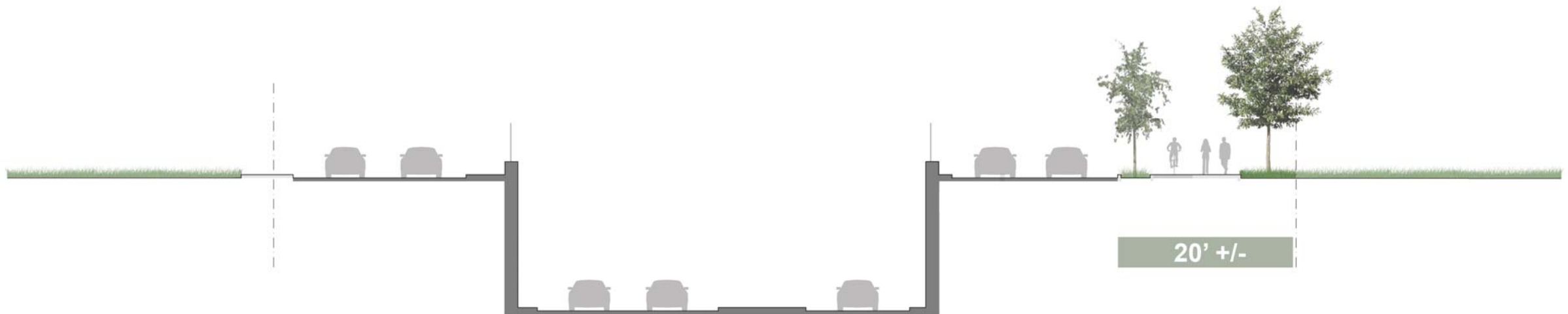
20' +/-

RCIC
Rutherford Corridor Improvement Coalition

Rutherford Ave. Cross Section:
Surface Option at Austin St.

50' +/- Neighborhood Buffer

RCIC
Rutherford Corridor Improvement Coalition

Rutherford Ave. Cross Section:
Surface Option at Austin St.

50' +/- Neighborhood Buffer

RCIC
Rutherford Corridor Improvement Coalition

1,260' x 50' = 63,000sf

1,260' x 15' = 18,900sf

600'

260'

400'

delta -44,100sf

TOTAL LOSS: 76,300sf

delta -32,200sf

920' x 50' = 46,000sf

920' x 15' = 13,800sf

CITY *of* BOSTON

SHARED-USE PA

Linear Park
Bike/Multi-use Path
Ramp Roadway

DRAFT

Linear Park
Bike/Multi-use Path

+50' Linear Park

+50' Linear Park

+50' Linear Park

ATTACHMENT E

Overlay and calculations prepared by RCIC.