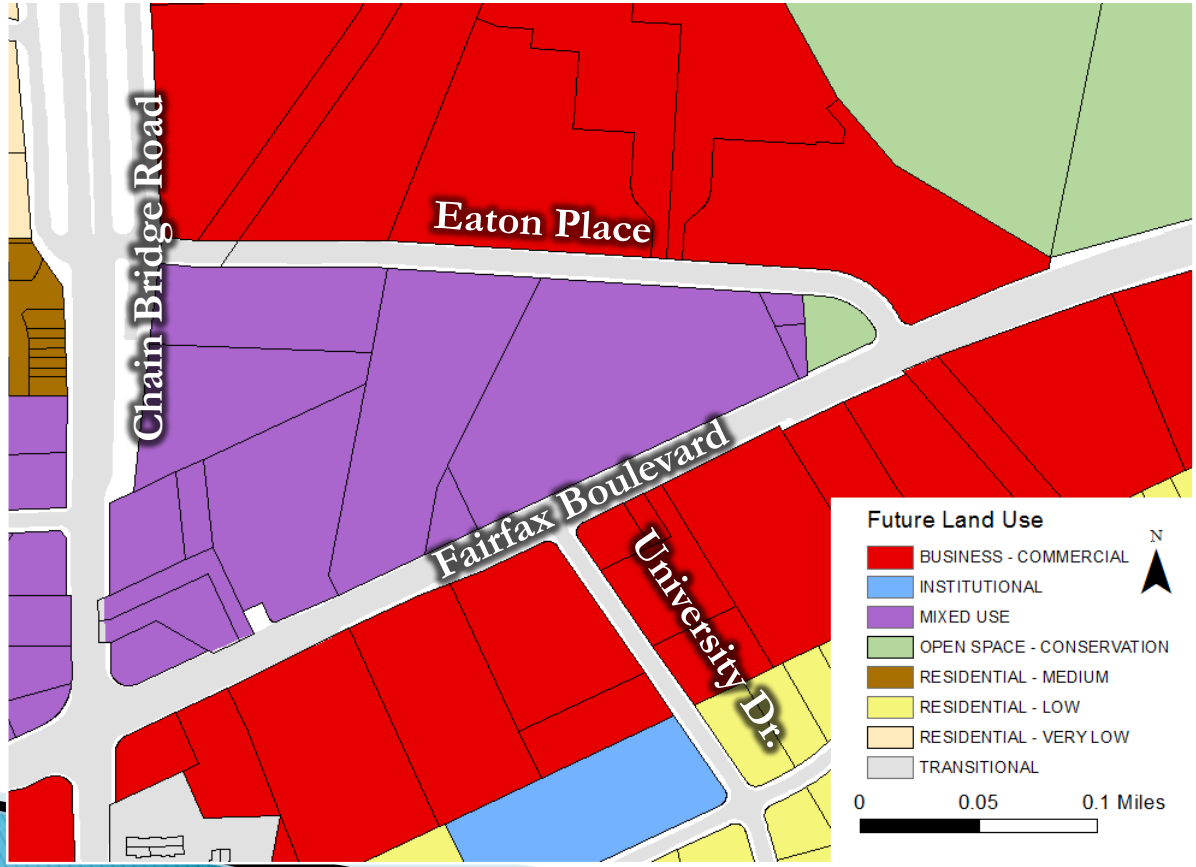
University Drive Extension

Public Outreach Meeting
November 1, 2016

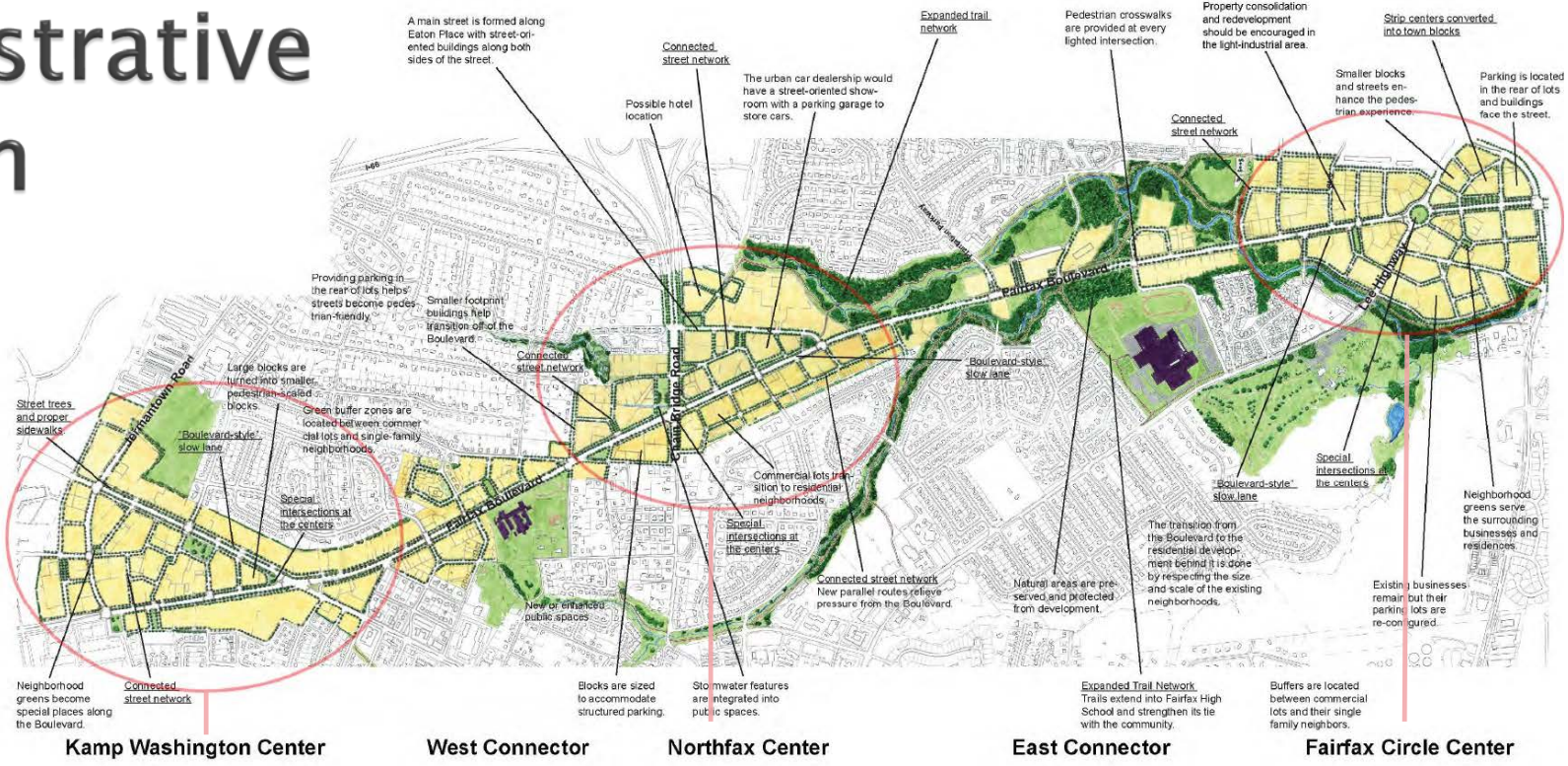
University Drive Extension

- Comprehensive Plan recommends a connected street network in the Northfax area
- The Fairfax Boulevard Master Plan Vision and Summary depicts an extension of University Drive between Fairfax Boulevard and Eaton Place
  - New vehicular access way between Fairfax Boulevard and Eaton Place
  - Connection to an internal east-west street through to Chain Bridge Road
- A connected street network supports additional capacity for vehicles while creating greater accessibility for other modes of transportation

Future Land Use



Fairfax Boulevard Vision and Summary Illustrative Plan



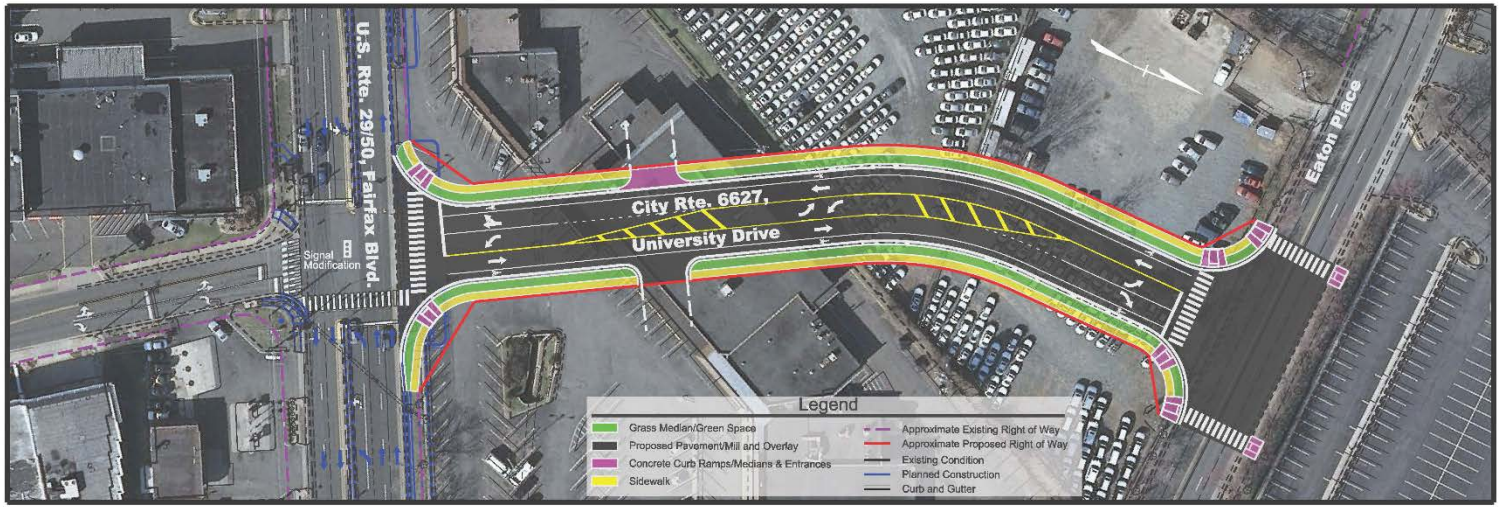
Northfax Center

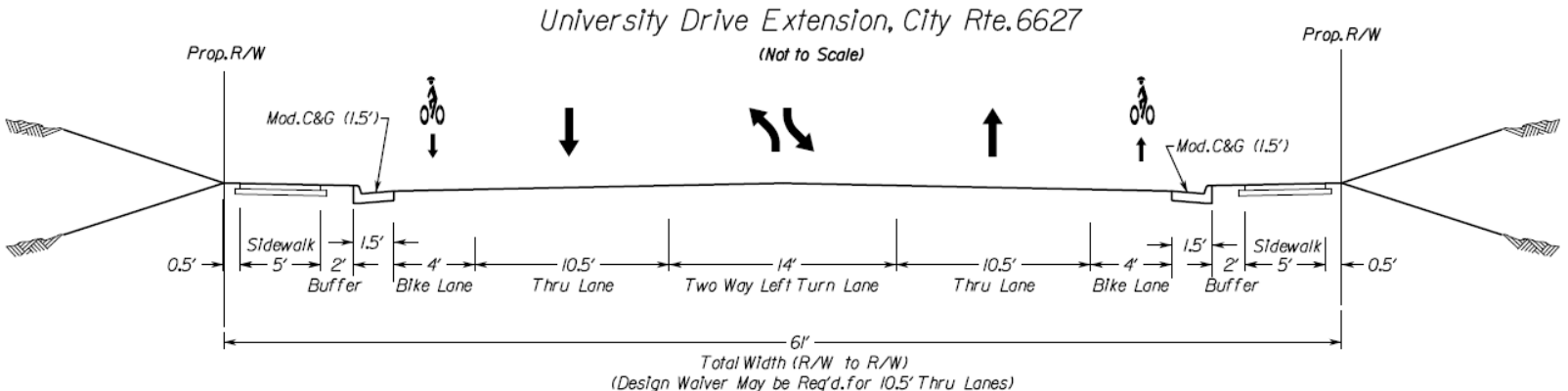
- Connected street network
- Strip centers converted into town blocks


Eaton Place
Chain Bridge Road
Fairfax Boulevard
University Drive
Fairfax Boulevard


American Apparel

University Drive Extension





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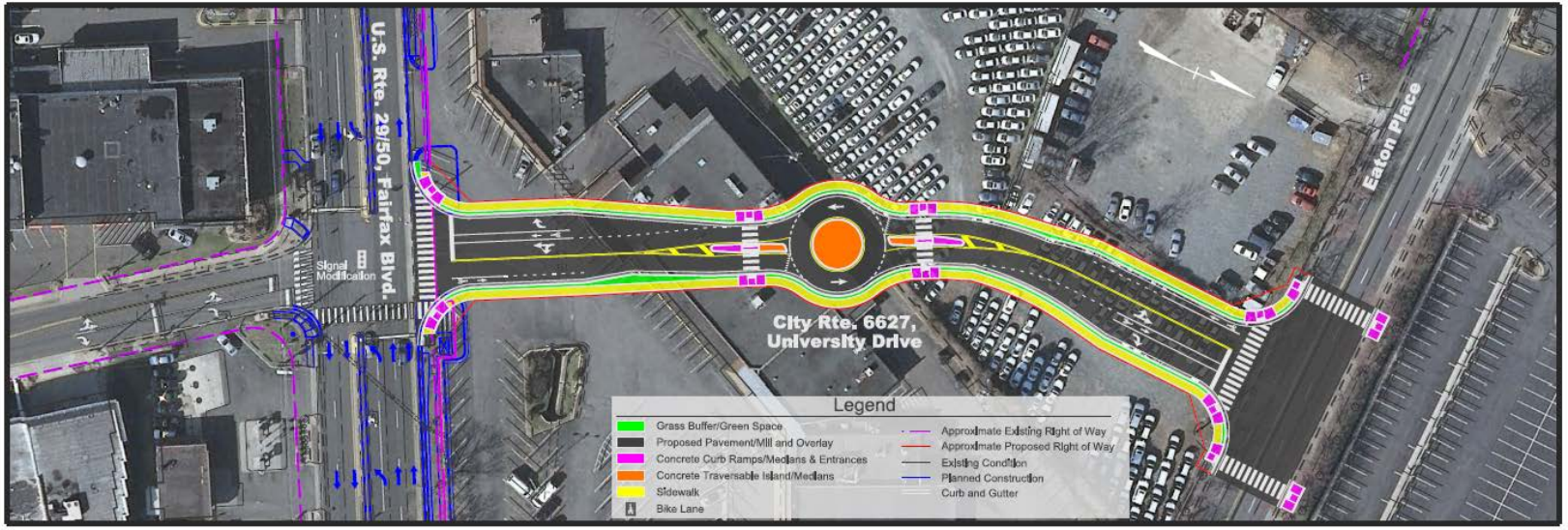
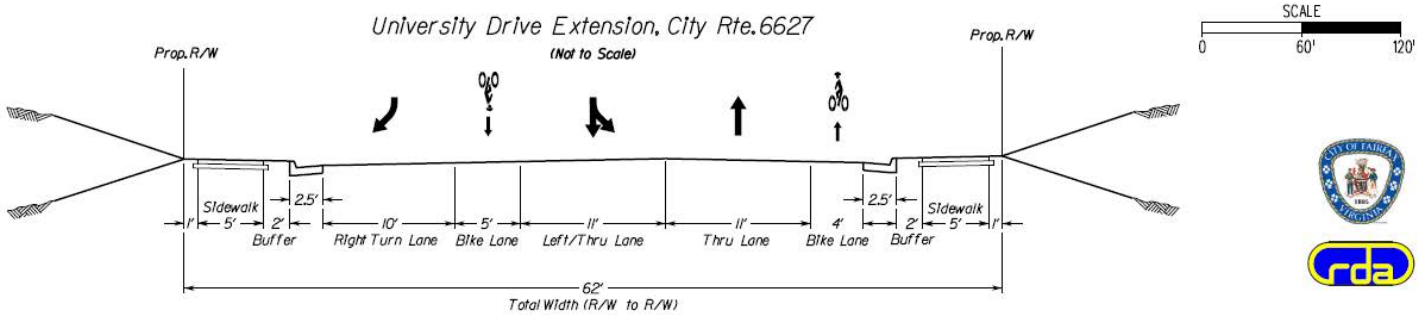




University Drive Extension

- Traffic study based on 2018 traffic volume forecasts
  - Baseline condition
  - Roadway extension condition
- Traffic diversion forecasts based on existing patterns
- Land use approvals will influence future traffic patterns and equilibrium

University Drive Extension

- Roadway achieves connectivity/ Comp Plan goals
- Level of Service remains unchanged at most intersections
- Project slightly improves delay at Chain Bridge Road/Fairfax Boulevard intersection
- Vehicle delay and queues expected to increase on Fairfax Blvd, Eaton Place, and University Drive Extension

University Drive Extension

- Eaton Place/University Drive intersection is proposed as stop-sign controlled
- Intersection capacity constraints at CBR/Eaton will contribute to elevated congestion for traffic using University Drive extension
- Significant intersection modifications at CBR/Eaton Place are necessary to provide additional capacity and improve operations

University Drive, South of Fairfax Blvd.

Peak Hour Traffic Volume on University Drive, south of Fairfax Boulevard (vehicles per hour)

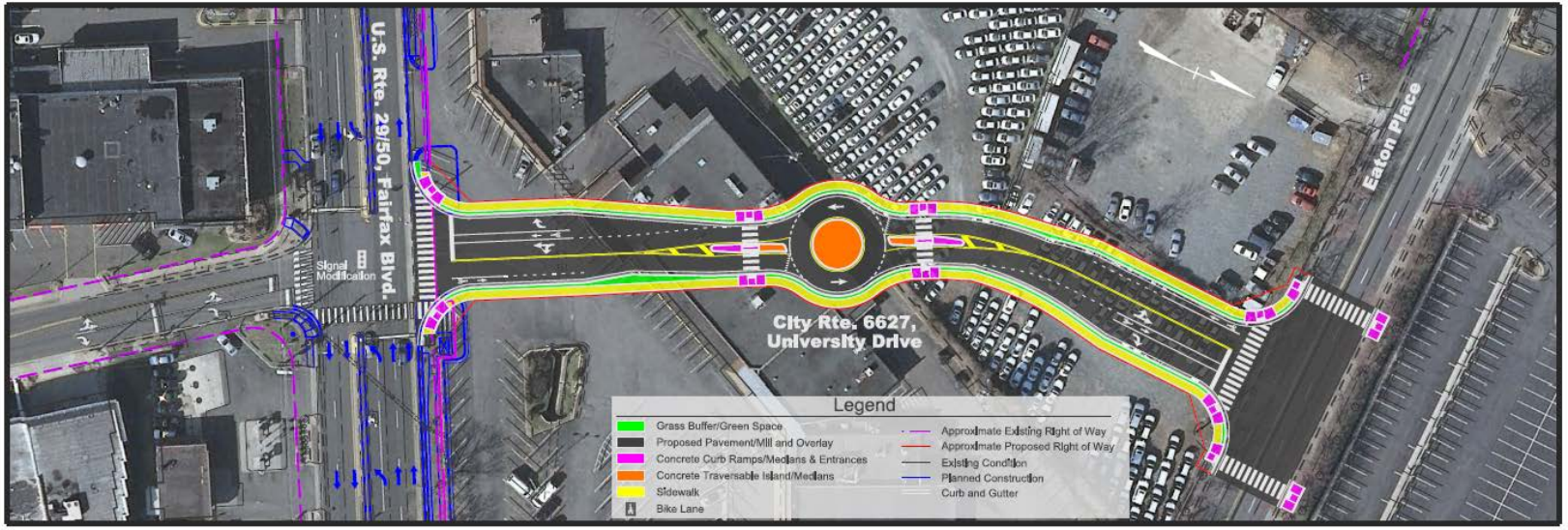
	2018 Baseline Condition		2018 University Drive Extension Condition		Traffic Volume Increase	
Direction	Weekday AM Peak	Weekday PM Peak	Weekday AM Peak	Weekday PM Peak	Weekday AM Peak	Weekday PM Peak
Northbound	369	392	433	456	+64	+63
Southbound	118	324	198	382	+80	+58
Total	**487**	**716**	**631**	**838**	**+144**	**+121**

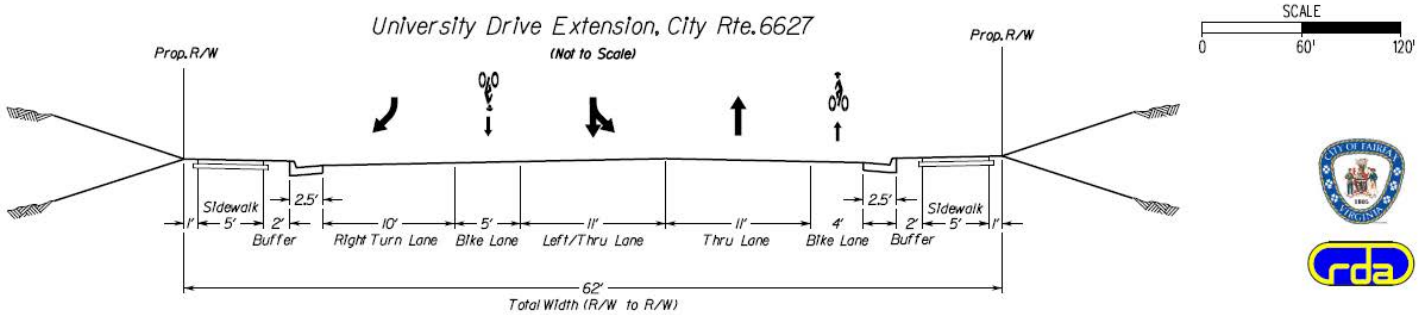
- Daily volume increase: 1,000–1,500 vehicles per day
  - Approximately 1 vehicle per minute in each direction during peak hours
- Low existing daily volume and future volume remains well below maximum roadway capacity

University Drive Extension Alternative Design Options

- Consider roundabout design to slow traffic
  - This design also adds mid-block crosswalks

University Drive Extension





University Drive Extension Lane Configuration

- Provide dedicated right turn lane onto Fairfax Blvd to facilitate that movement
- Provide shared left turn/through lane to slow/meter the through movement

Neighborhood Traffic Calming

- Potential options to be considered
  - Curb extensions to narrow crossing distances
  - Striping to reduce lane widths
  - Sidewalks in locations where missing
  - Residential traffic circle
  - Other measures to be discussed with the neighborhood
- These would be implemented separately from road project

Project Funding

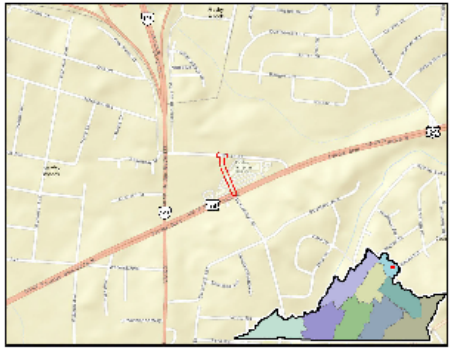
- City endorsed project application to VDOT
- City applied and received $9,994,370 in Federal Smart Scale Funds
- VDOT seeking City confirmation on project

PROJECT SCORECARD — **HB2 Funding the Right Transportation Projects**

University Drive Extension — App Id: 633

Project extends University Drive from Fairfax Boulevard to Eaton Place.

Project Location	Fairfax
HB2 Area Type	A
Submitting Entity	Fairfax City
Total Project Cost	$9,994,370
HB2 Request	$9,994,370
Preliminary Engineering	Underway
Right of Way	Not Started
Construction	Not Started
Expenditures to Date	N/A
Key Fund Sources	N/A
Administered By	Locality
Eligible Funding Program(s)	Both



Performance	Project Benefit Score		HB2 COST	TOTAL COST
VTrans Need: NOVA Regional Network	4.7	Final Score	4.7	4.7
Click for details		Statewide Rank	93/287	84/287
		District Rank	13/45	12/45

Congestion Mitigation		Safety		Accessibility			Environment		Economic Development			Land Use
45% of score		5% of score		15% of score			10% of score		5% of score			20% of score
50%	50%	50%	50%	60%	20%	20%	50%	50%	60%	20%	20%	100%
Increase in Daily Person Throughput	Decrease in Person Hours Delay	Reduction in Fatal and Severe Injury	Reduction in Fatal and Severe Injury Rate	Increase in Access to Jobs	Increase in Access to Jobs for Disadvantaged Populations	Improved Access to Multimodal Choices (Users Benefit Value)	Air Quality (Total Benefit Value)	Acres of Natural/Cultural Resources Potentially Impacted	Economic Development Support (Sq. ft.)	Intermodal Access Improvements (Tons Benefit Value)	Travel Time Reliability Improvement	Transportation Efficient Land Use
1.9	2.4	1.5	0.1	0.1	0.3	0	0	0.7		0.4	58.6	15.2

Next Steps

- Public Input Tonight
- City Council Discussion November 8

Questions / Comments?