CITY OF FRANKLIN, TENNESSEE

Columbia Avenue

Widening & Improvements Project

Public Meeting | May 16, 2017





Agenda

6:00 - 6:30

Formal Presentation

6:30 - 8:00

Town Hall Forum



Project Timeline

Planning

October 2005

Nashville Area Metropolitan Planning Organization Adopts 2030 Long Range Transportation Plan

January 2008

Public Meeting Held for Columbia Avenue Project

November 2010

Approval of
Transportation
Planning Report
(TPR) for
Columbia Avenue
Project

June 2014

TDOT Agrees to
Participate in
Columbia Avenue
Project by
Contributing State
Funds as 20%
Match (80% from
Federal Sources)

July **201**5

BOMA Approves Local Agency Project Agreement

Project Timeline

Planning, continued

Preliminary Design

September 2015

TDOT Notice to Proceed for Preliminary Engineering (Environmental) Phase

May 2016

Public Meeting #1: Corridor Visioning

January 2017

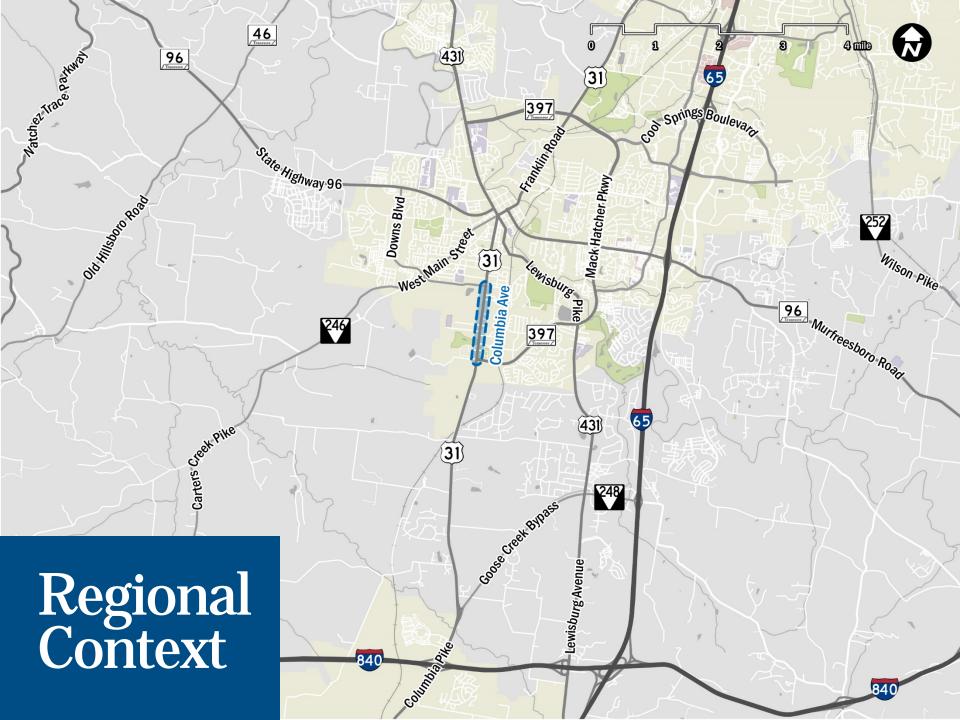
Public Meeting #2: Concept Layout

May 2017

Public Meeting #3: Concept Analysis (today!) Plus meetings with BOMA and property owners

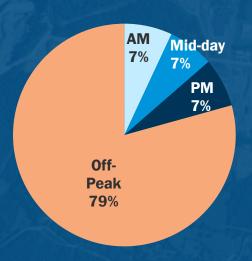
Next Step:

BOMA selects preferred concept to bring forward to detailed design

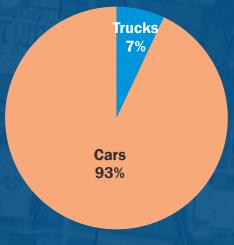


May 2016 18,900 vehicles/day

DAILY TRAFFIC



TRAFFIC COMPOSITION



11% Peak





April 2016 travel time

from Battle Avenue to Winstead Elementary School, in minutes.

3:10
with no traffic

5:10 average day

10:20 longest recorded

Future Growth

2016

EXISTING CONDITIONS

based on data from City and TDOT count stations

18,900

vehicles/day

2021

BUILD YEAR

forecast conditions at project completion

19,800

vehicles/day

2041

DESIGN YEAR

improvements are designed to accommodate 20 years of growth

25,400

vehicles/day



Operations

Safety

Physical Impact

Corridor Concepts

Example: Columbia Avenue at Southeast Parkway







Operations

Anticipated Travel Time and Average Speed, 2041 Volumes (Columbia Avenue)

No-Build Conditions

5:40

14.9 mph

Four-Lane Median Divided Concept

5:30

15.4 mph

Five-Lane Signalized Concept

4:50

17.5 mph

Roundabout Concept

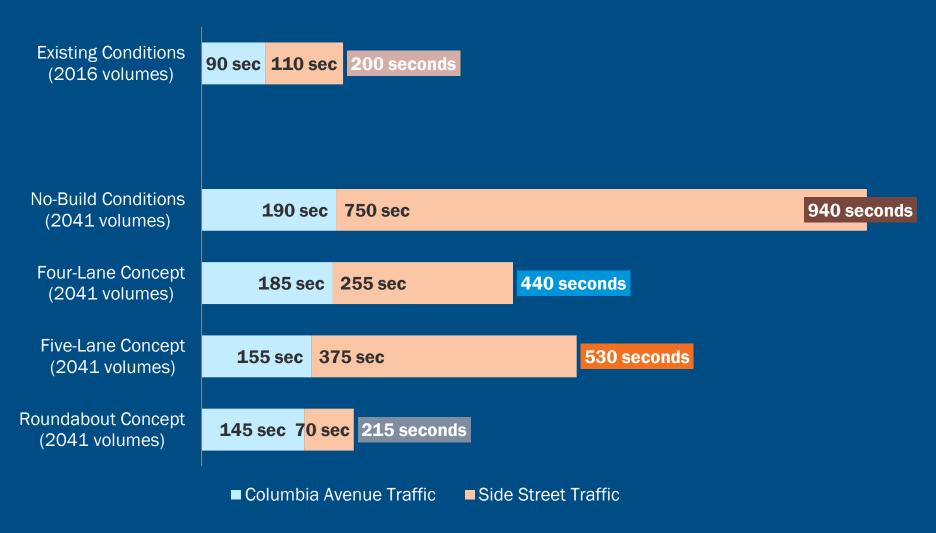
4:35

18.2 mph

Average of 35,000+ simulated vehicles between Fairground Street and Winstead Hill Park

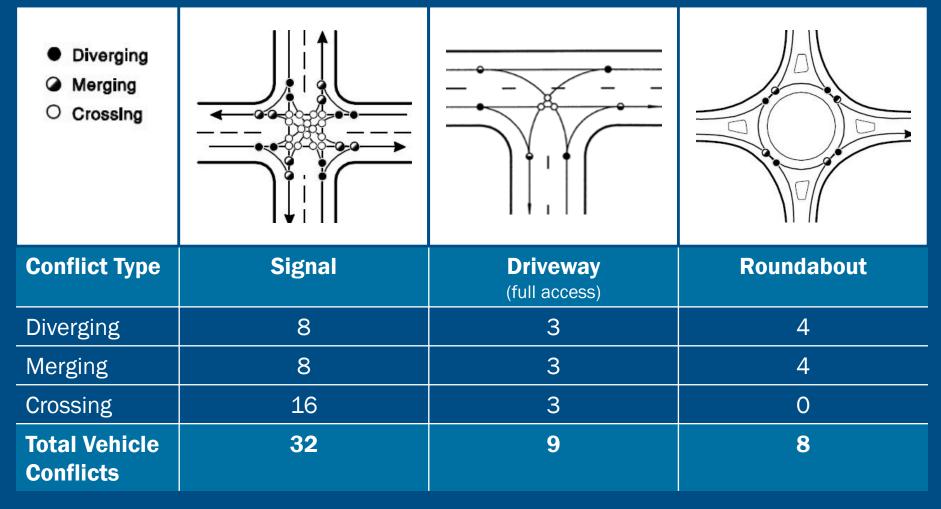
Operations

Corridor Delay



Vehicle Conflict Points (Potential for Collision)

Source: FHWA



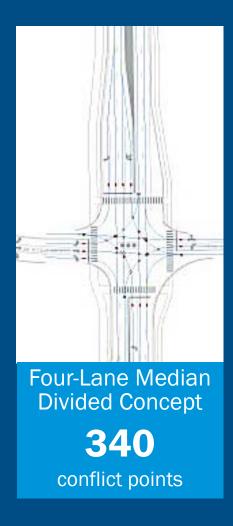
Pedestrian-Vehicle Conflict Points (Potential for Collision)

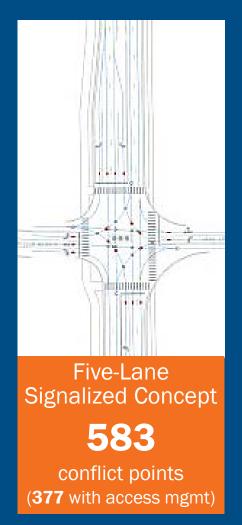
Pedestrian-Vehicle Conflict Point Comparison

Right turn on green conflict
Red light running conflict
Left turn on green conflict
Red light running or right turn on red conflict
Source: NCHRP Report 672 Exhibits 5-7 and 5-8

	Signal	Roundabout
Total Ped/Bike Conflicts	16	8

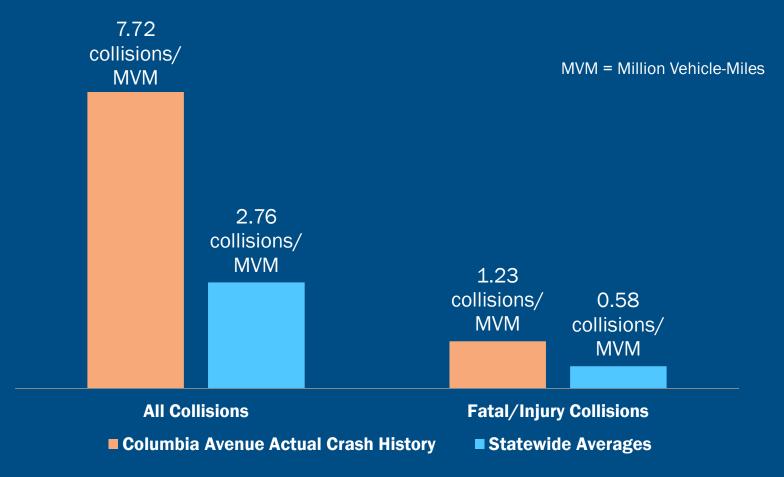
Columbia Avenue Conflict Points



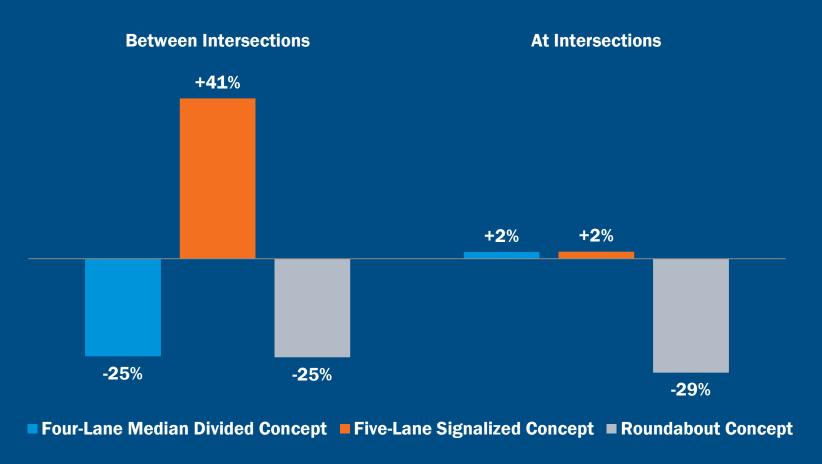




Collision Data (2013-2016)



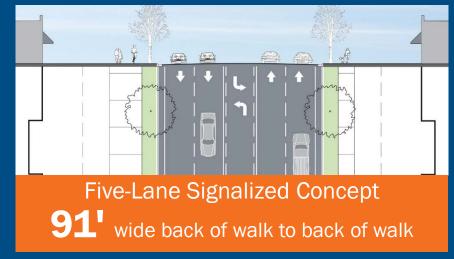
2041 Anticipated Change in Traffic Collisions

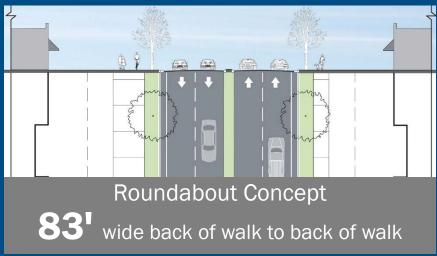


Physical Impact

Typical Sections







Physical Impact



Five-Lane Signalized Concept



Data Summary

		Four-Lane Median Divided Concept	Five-Lane Signalized Concept	Roundabout Concept
Operational Performance	Thru Traffic Delay	185 sec/veh	155 sec/veh	145 sec/veh
	Side Street Delay	255 sec/veh	375 sec/veh	70 sec/veh
	Average Travel Time	5:30	4:50	4:35
Safety Performance	Between Intersections	-25% fewer collisions	+41% more collisions	-25% fewer collisions
	At Intersections	+2% more collisions	+2% more collisions	-29% fewer collisions
Physical Impact	Between Intersections	95' total width	91' total width	83' total width
	At Intersections	AVERAGE footprint	AVERAGE footprint	INCREASED footprint

next step

BOMA selects

preferred concept

to bring forward to detailed design.

Schedule



Thank you for coming!

Please visit the website

Questions?

franklintn.gov/columbiaavenue

Construction Concerns

What can be done to mitigate disruption to local businesses during construction?

- **INCENTIVE** Offer incentive to contractor to complete construction early.
- NIGHT WORK Perform as much work as possible at night (e.g. during off-peak traffic) to minimize disturbance to surrounding properties.
- HOUSEKEEPING Include items such as frequent street sweeping in the construction contract to minimize dust and debris in the roadway during construction.
- <u>INFORMATION</u> Develop and maintain dedicated website to provide *up-to-date* project information to the public and business owners (Example: www.cumberlandconnect.com)
- PARTNERSHIP Partner will willing local businesses to reach-out to customers and promote area business (i.e. City-sponsored giveaways, etc.)

How can we focus on making this project a "win-win" for all involved?