





Universal Boulevard Pedestrian Safety Action Plan

Study Purpose

The Universal Boulevard Pedestrian Safety Action Plan is a comprehensive review of the Universal Boulevard corridor to provide recommendations for a safe integration of pedestrian and bicycle activity with other modes of transportation.



Agenda



Project Overview



Discussion of Alternatives



Stakeholder Coordination



Next Steps



Data Collection



Needs/Gaps based on Data Collected and Field Observations

Universal Boulevard Pedestrian Safety Action Plan

Stakeholder Meetings

02/08/2018 International Drive CRA Advisory Board

02/12/2018 Universal Representative

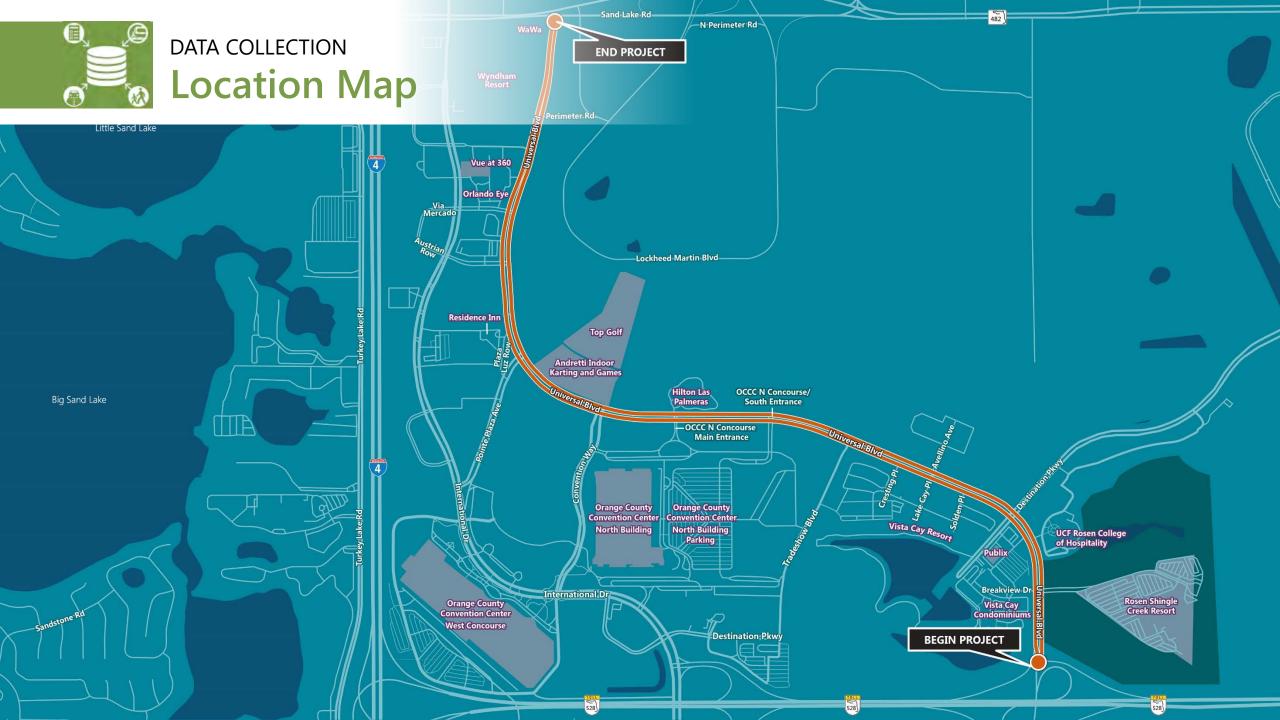
02/22/2018 University of Central Florida Rosen College

02/27/2018 Universal Boulevard POA

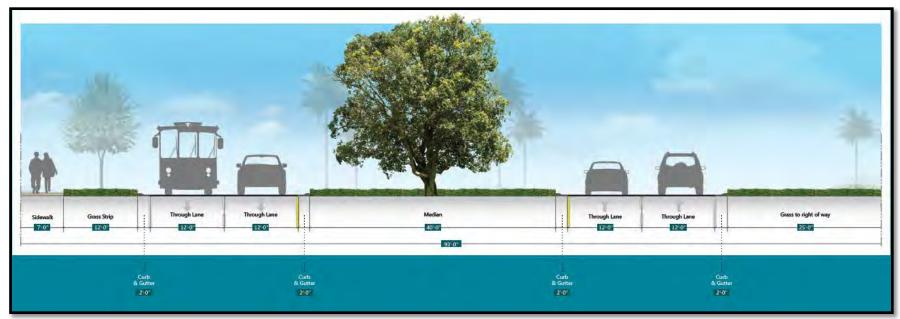
03/02/2018 Representative for Property Owners
North of Pointe Plaza

03/28/2018 Universal Boulevard Joint Stakeholders Meeting

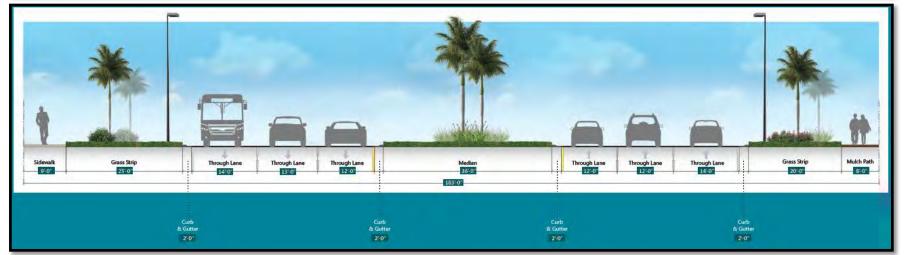
04/2018 International Drive Chamber







North Section (North of Austrian Row)



South Section(North of Destination Parkway)



2 Transit Providers

LYNX

9 stops south of Convention Way

I-Ride Trolley

• 6 stops north of Pointe Plaza Avenue



I-Ride Trolley Stop in front of Fairfield Inn (Northbound)



I-Ride Trolley Stop in front of La Quinta (Southbound)



LYNX Bus Stop South of UCF Rosen College Driveway (Northbound)





Sidewalks and Mulch Path

Southbound

 Continuous sidewalk – 10-feet wide south of Plaza Luz Row and varies from 5 to 7-feet wide north of Plaza Luz Row

Northbound (missing gaps)

- Sidewalk segment south of Destination Parkway (8 to 10-feet wide)
- Mulch path between Destination Parkway and Convention Way (8 to 10-feet wide)
- Sidewalk segment north of Convention Way to Pointe Plaza Avenue (5 to 7-feet wide)
- Missing gap between Pointe Plaza Avenue and north of Perimeter Road
- Sidewalk segment north of Perimeter Road to Sand Lake Road (5 to 7-feet wide)







Traffic, Pedestrian and Bicycle Count Data

Turning movement counts – 17 signalized and unsignalized intersections

Driveway counts – 12 locations

Unsignalized crosswalk counts – 3 locations (2 are midblock)

72-hour bi-directional classification counts – 4 locations

Sidewalk screenline counts – 8 locations

Field review/observations including ADA



Lighting/Luminosity Measurements for Pedestrians

- At signalized and unsignalized intersections needs to be improved
- At midblock crosswalks needs to be improved
- At transit Stops
 - LYNX stops needs to be improved
 - I-Drive stops OK

Speed and Pedestrian Gap Studies (4 locations)

- 45 mph speed limit for 6-lane section
- 40 mph speed limit for 4-lane section
- 85th percentile speeds
 - 6-lane section between 43 to 51 mph
 - 4-lane section between 43 to 49 mph

Traffic Signal Warrant Studies

- Shingle Creek
- Lake Cay Place
- OCCC North Concourse Main Entrance
- Via Mercado
- Austrian Row
- Perimeter Road (part of I-Drive Transit Lanes Project)







SUMMARY OF NEEDS/GAPS

Ped Safety Action Plan

- Reduce traffic speeds
- Traffic signals (if warranted)
- Sidewalk continuity
- Enhanced/modified pedestrian crossings
- Transit amenities
- Lighting
- Signage









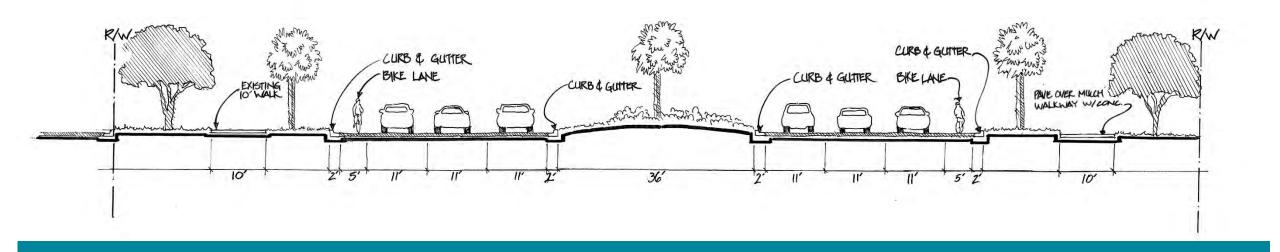
- Uniform lane widths throughout the corridor
 - 6-lane vs 4-lane sections
- Reduced curb radii
- Continuous sidewalk network
- Bicycle lanes
- Consistent and updated signage
- Improve lighting at pedestrian crossing locations



Universal Boulevard south of Sand Lake Road



North of Destination Parkway





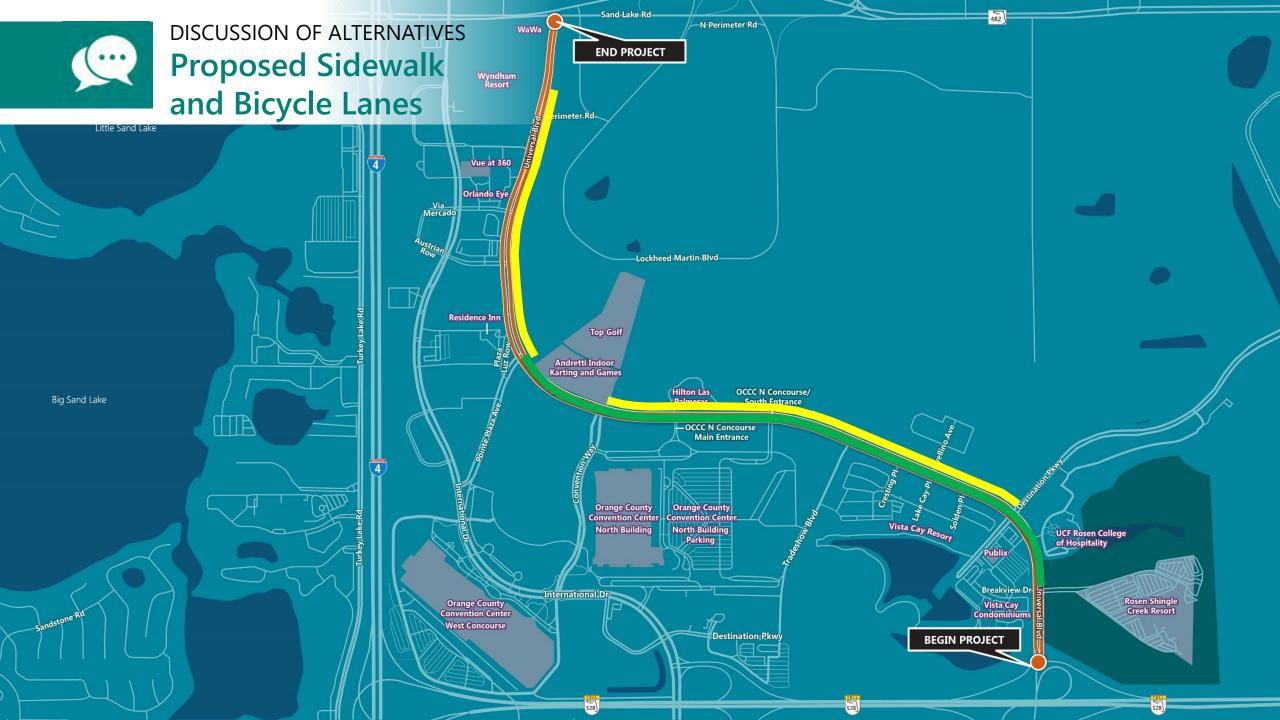
Pedestrian and Bicycle Facilities

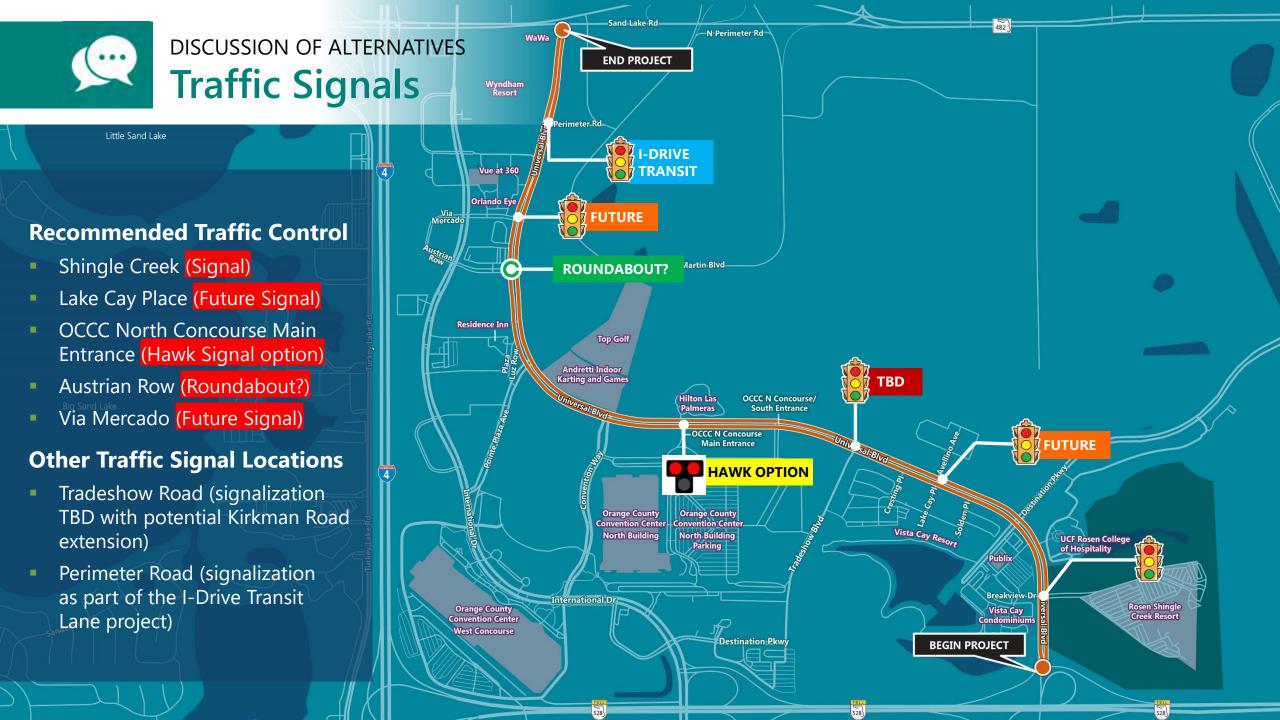
- With the reduced lane widths, there is enough room for a 5' bicycle lane in both directions
 - 6-lane section only, from Shingle Creek Resort to Pointe Plaza Avenue
- Sidewalk continuity
 - 10' multi-use sidewalk
 - From Destination Parkway to Convention Way
 - Pave over mulch path and tie into sidewalks at Mario Andretti/Top Golf
 - From Mario Andretti/Top Golf to north of Perimeter Road
- ADA upgrades
 - Repair/update sidewalk at key locations
 - Alignment of pedestrian crosswalks with sidewalk connections at key locations
 - Push button access

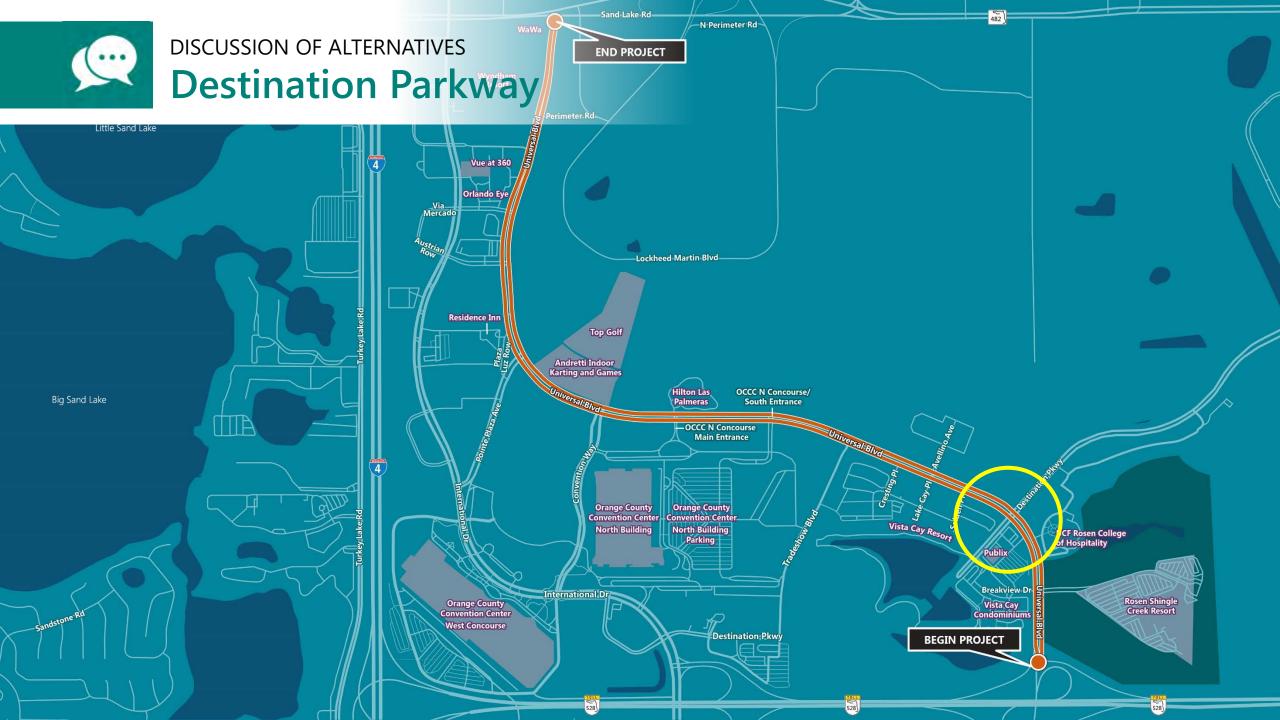














South of Destination Parkway– Midblock Crosswalk

- Pedestrian-vehicle conflicts
 - Cross six lanes of traffic along Universal Boulevard
 - High speeds and high traffic volumes
 - Proximity to traffic signal

- Through landscaping and control devices, redirect pedestrians to Destination Parkway
 - Remove crosswalk
 - Covered sidewalk on campus
 - Redirect to signalized intersection
 - Pedestrian channelization barrier in median
 - Landscaping along sidewalk path on Destination Parkway



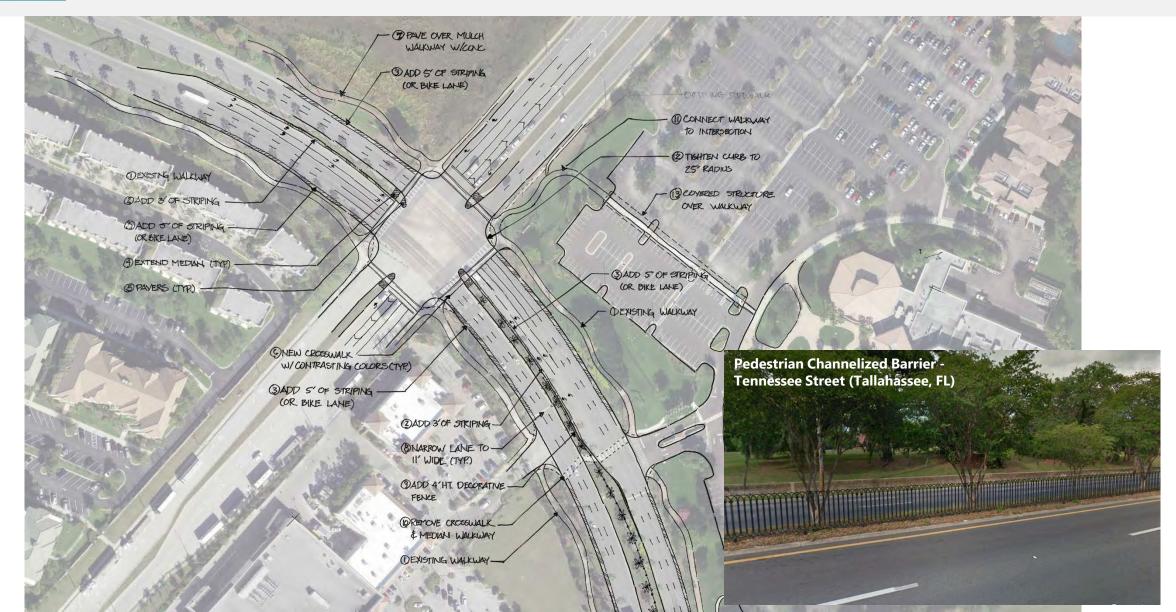
Destination Parkway Intersection

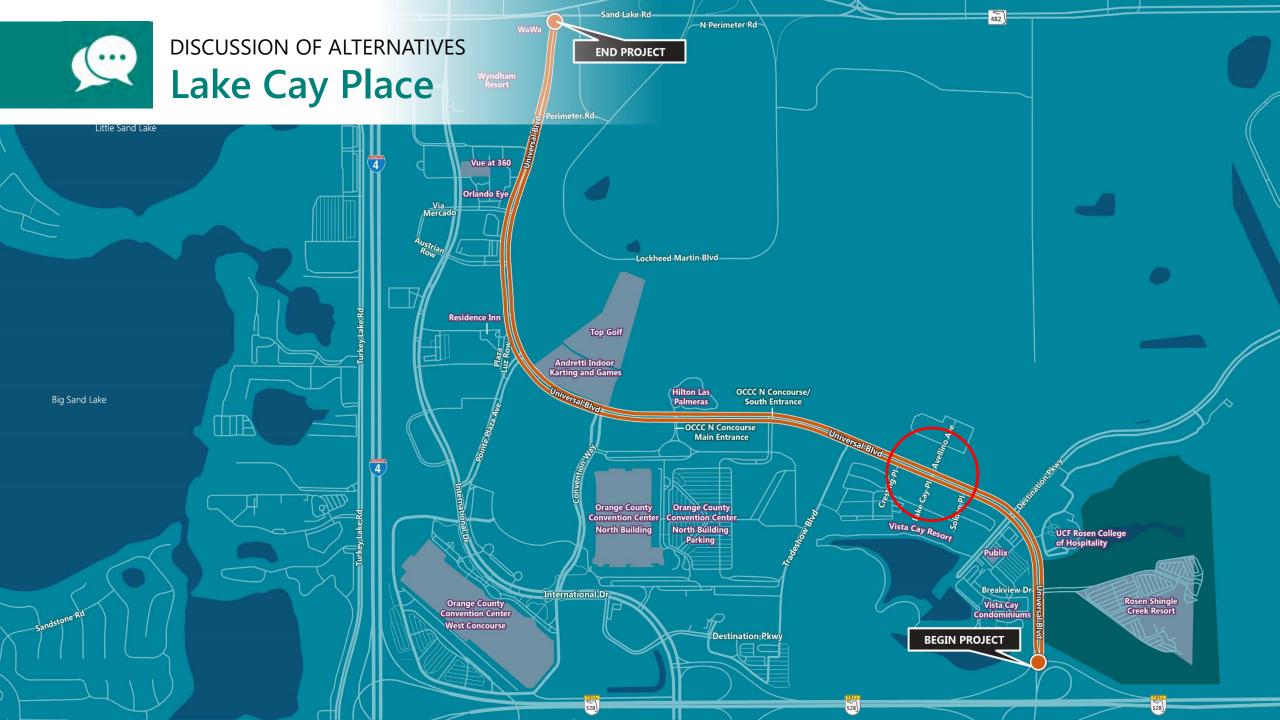
- Long crossing distances for pedestrians crossing Universal Boulevard (~140 feet)
- Wide radii at intersections

- Shorten pedestrian crossing distances
 - Extend medians
 - Reduce curb radii
- Add WBL turn lane (part of Destination Parkway extension project)



Proposed Concept





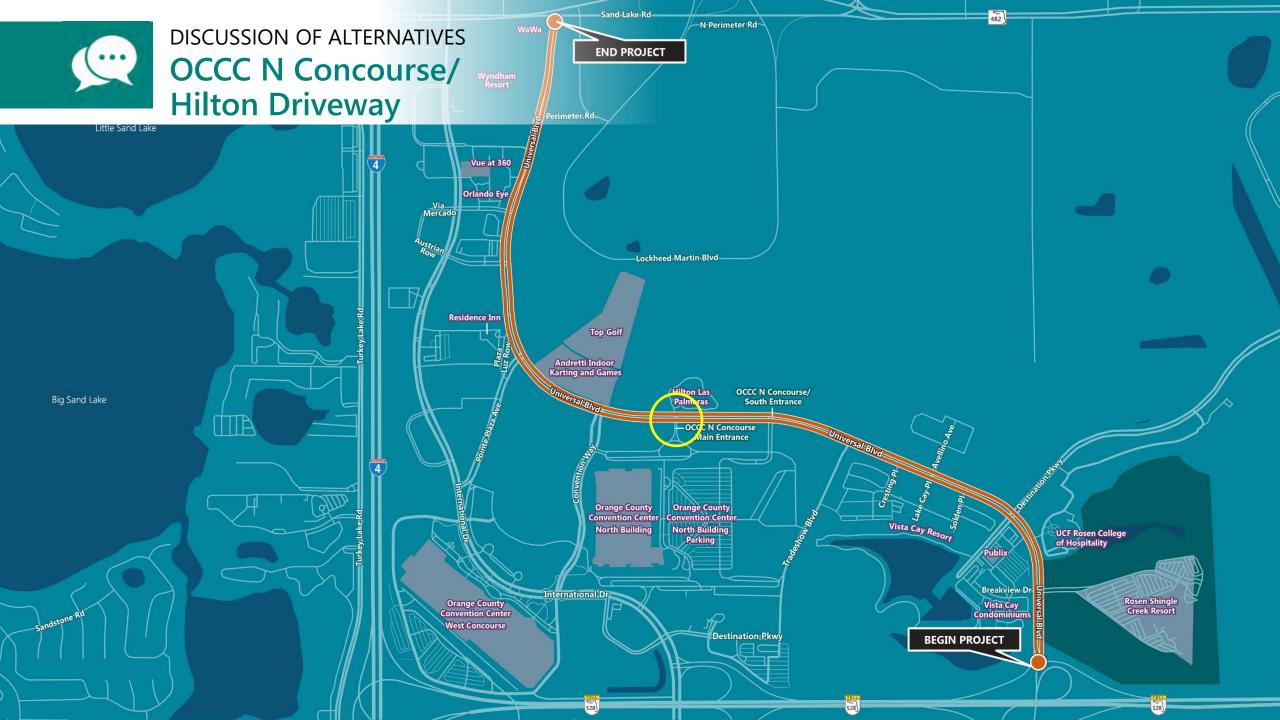


Lake Cay Place

- Future development
 - New attraction sites on north side of Universal Boulevard
 - Promote pedestrian activity
- High observed through vehicle speeds

- Future traffic signal
 - Including pedestrian crosswalks and reduced curb radii







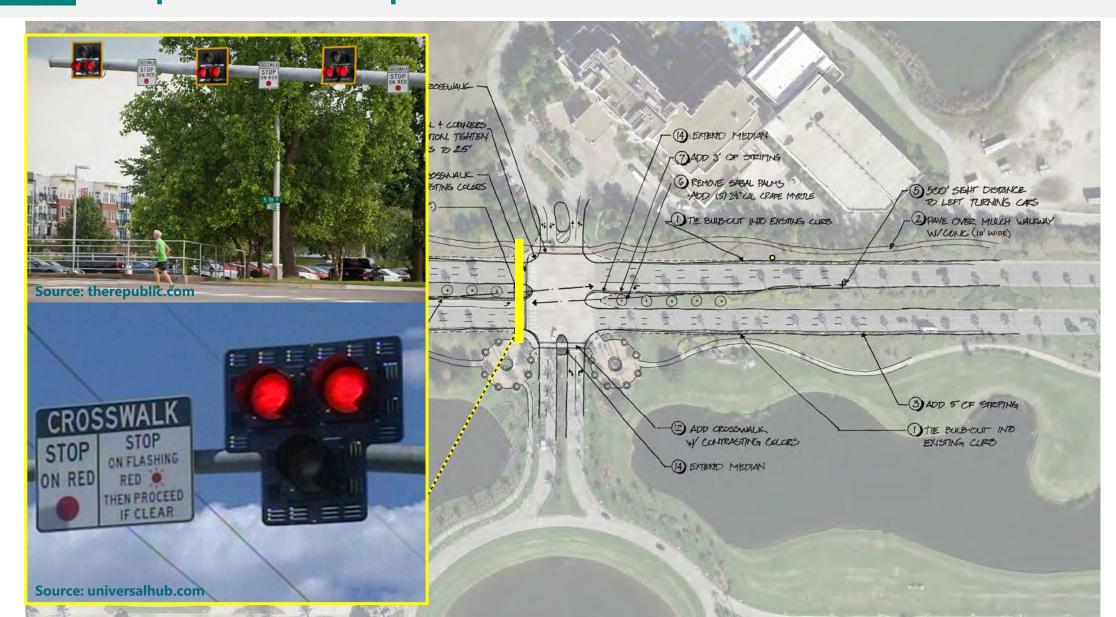
OCCC North Concourse/Hilton Driveway

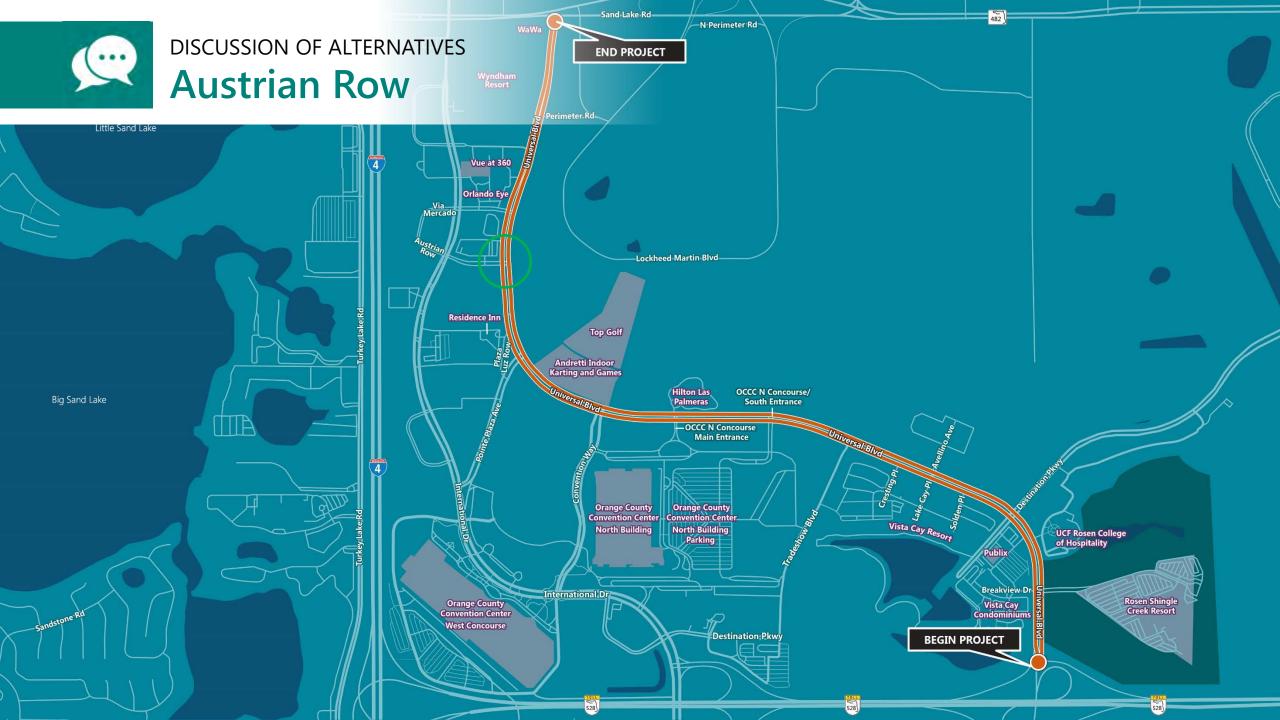
- 150' pedestrian crossing distance
- Highest speeds along corridor
- Vehicles tend to slow at last minute when a pedestrian is in crosswalk

- Crosswalk improvements
 - "Bulb-out" with bicycle lane to reduce pedestrian crossing distance by 30'
 - Align crossing with median and add storage in median
- Add beacon in median and add coordinated beacons upstream and downstream; OR
- Install a HAWK signal

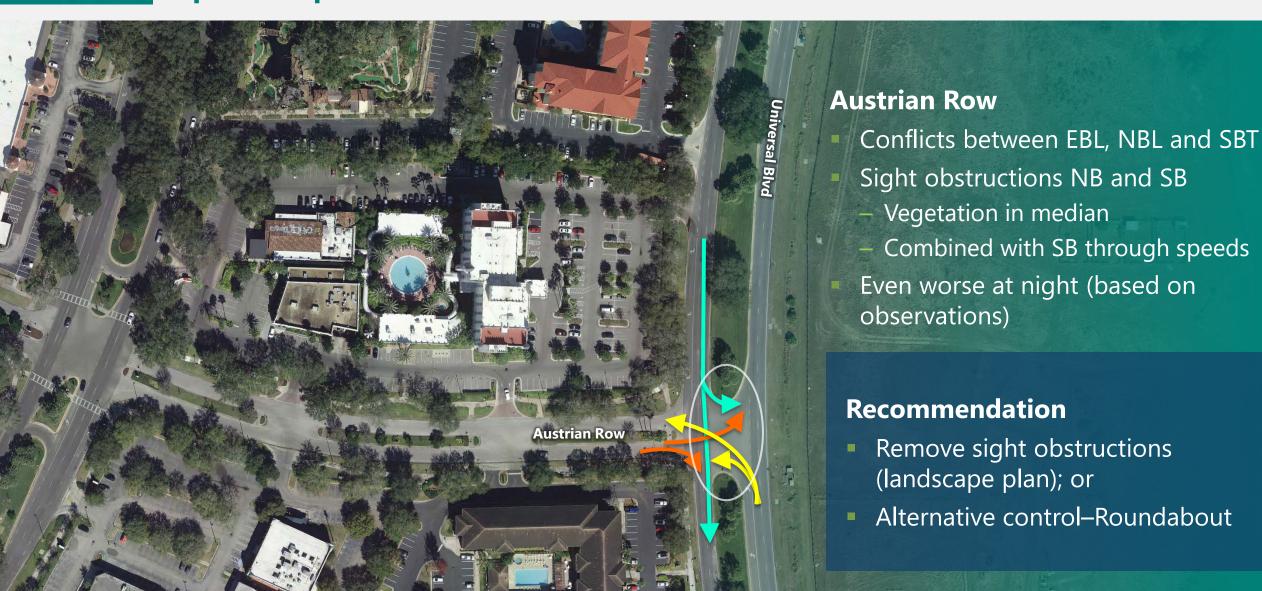


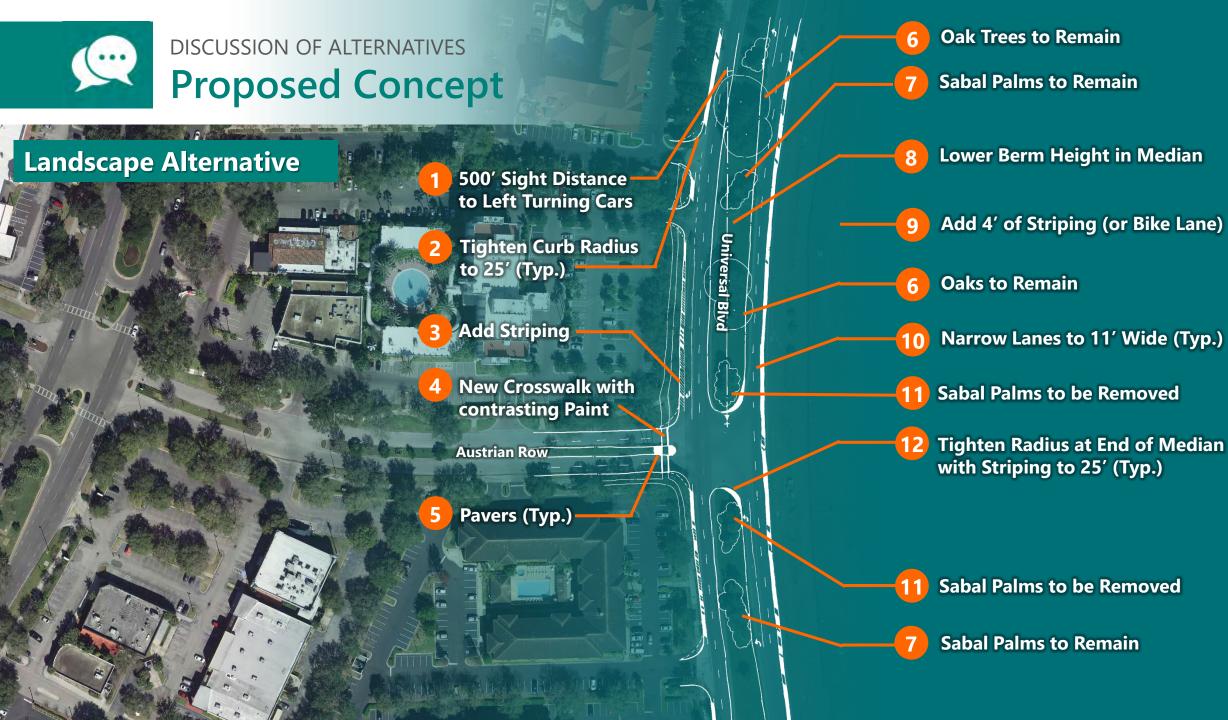
Universal Boulevard at OCCC North Concourse/Hilton Driveway

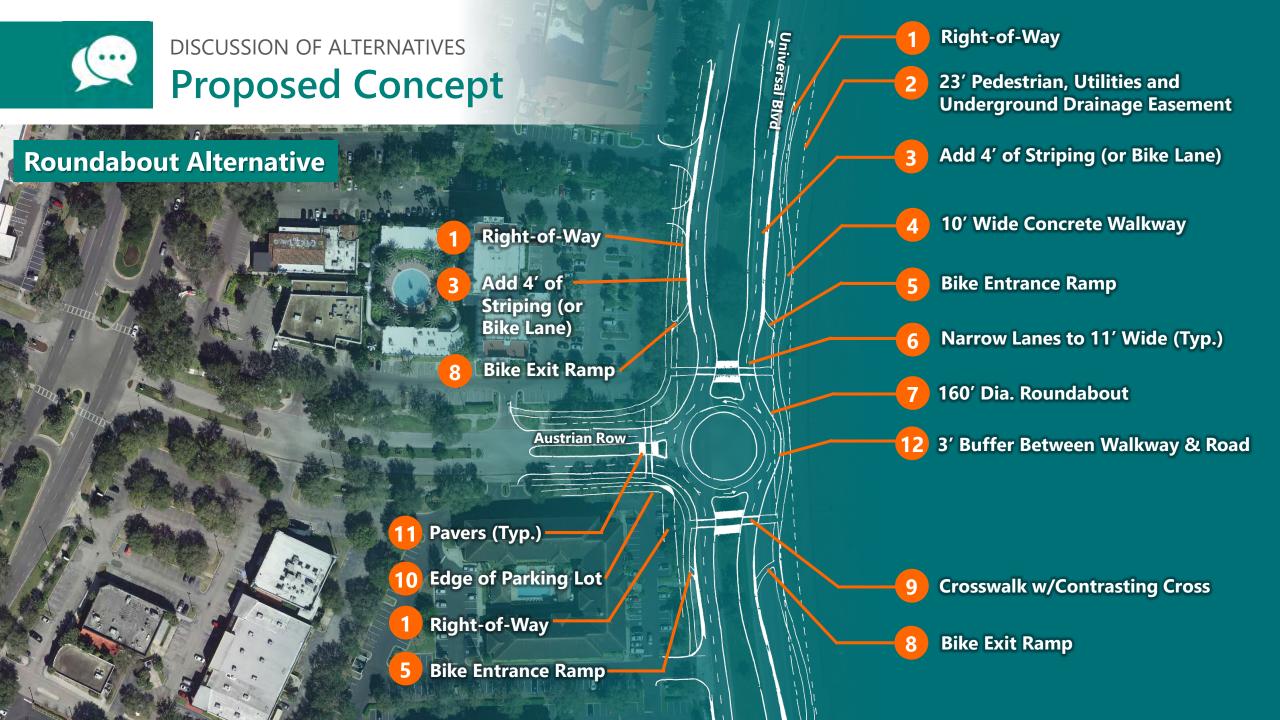


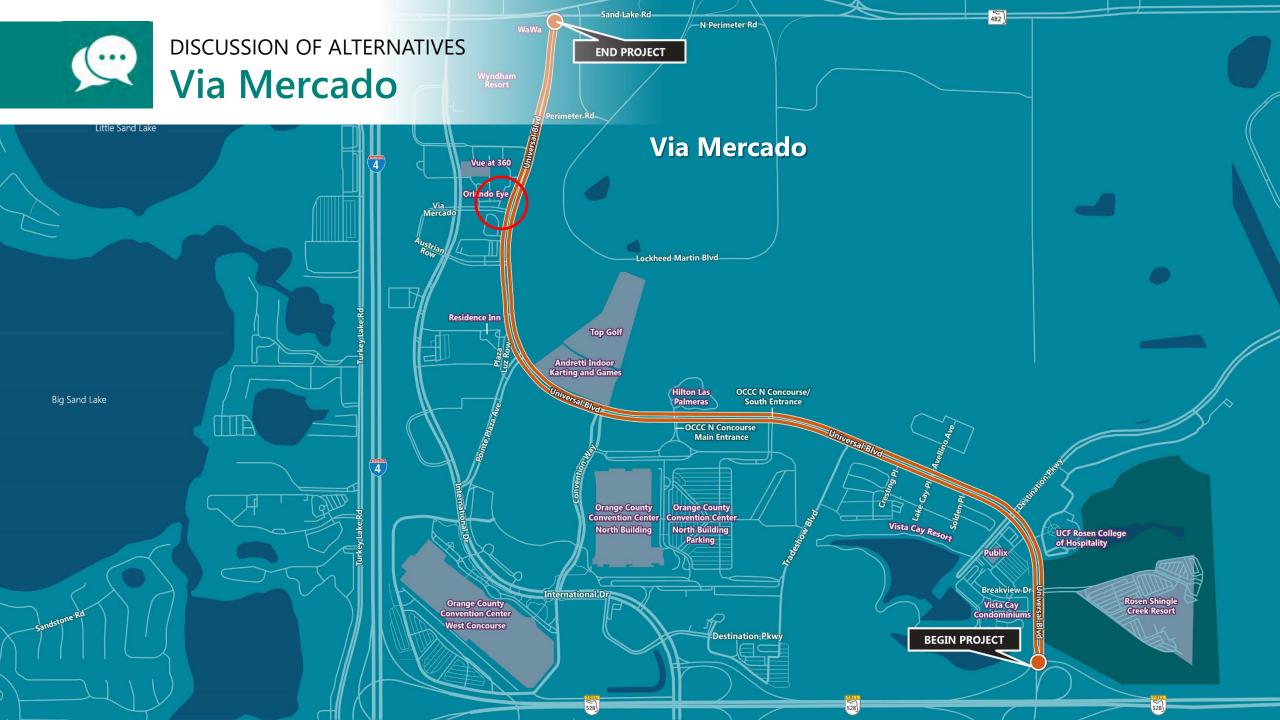




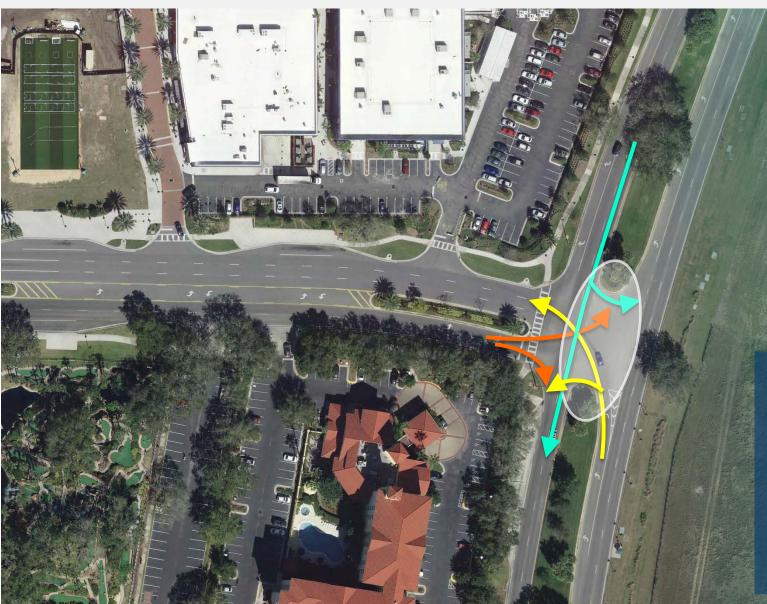










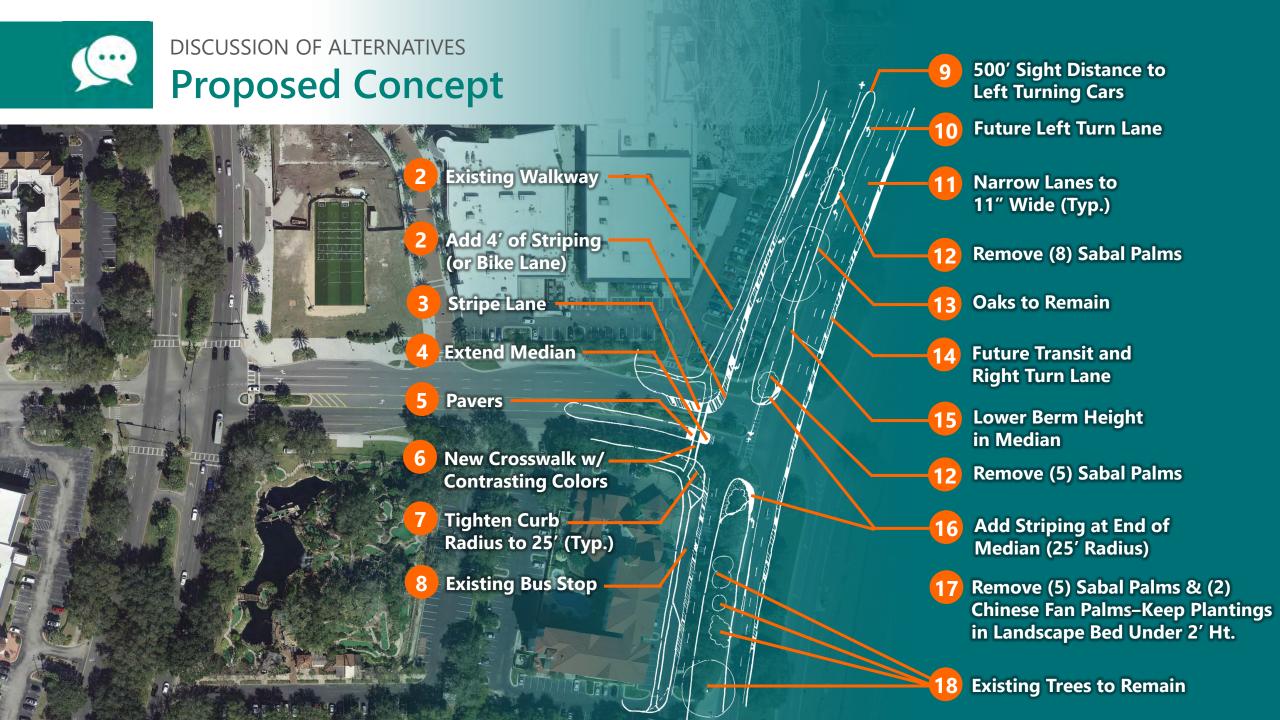


Via Mercado

- Conflicts between EBL, NBL and SBT Sight obstructions NB and SB
- Vegetation in median
- Elevated berm in SB median
- SB road curvature
- Combined with SB through speeds

Even worse at night (based on observations)

- Future traffic signal
 - Remove sight obstructions (landscape plan)
 - Pedestrian crosswalks





Universal Boulevard Pedestrian Safety Action Plan



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