UCF/Alafaya Trail Pedestrian Safety Study & Campus Development Agreement

BCC Public Hearing

November 29, 2016
Presentation Overview

- UCF/Alafaya Trail Pedestrian Safety Study
- Campus Master Plan
- Campus Development Agreement
- Action Requested
Goal

Identify bike/pedestrian safety enhancements/improvements

- Public involvement
- Data collection and analysis
- Vision for Corridor
- Recommendations for Improvements
Public Involvement

UCF/Alafaya Trail Pedestrian Safety Study

Knights Circle
Northview
University Apartments
Plaza on University
The Edge Orlando
UCF/Alafaya Trail
The Edge

Logos:
- Orange County Government
- FDOT
- LYNX
- Highway Patrol
- Bike/Walk Central Florida
- Central Florida Research Park
- Metroplan Orlando
## Data Collection and Analysis

### Crash History (2006-2014)
- Total Crashes: 259

<table>
<thead>
<tr>
<th>Highest location frequency</th>
<th>Alafaya Tr (74%)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Crashes w/ Injuries</th>
<th>207 (80%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 59% Bikes</td>
<td></td>
</tr>
<tr>
<td>• 41% Ped</td>
<td></td>
</tr>
</tbody>
</table>

| Crashes w/ Fatalities      | 8 (.03%)         |

Alafaya Tr 4 times Statewide Pedestrian Crash Average (crash rate per 100 MVM)

### Pedestrian/Bicycle Volume Observations (24 Zones over 3 days)

<table>
<thead>
<tr>
<th>All Locations</th>
<th>All 3 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td># Cross Street Peds</td>
<td>291</td>
</tr>
<tr>
<td># Cross Driveway Peds</td>
<td>12,094</td>
</tr>
<tr>
<td># Cross Street Bikes</td>
<td>9,967</td>
</tr>
<tr>
<td># Cross Driveway Bikes</td>
<td>2,240</td>
</tr>
<tr>
<td>% Violation Cross Street Bikes &amp; Peds</td>
<td>36.6%</td>
</tr>
<tr>
<td>% Violation Cross Driveway Bikes &amp; Peds</td>
<td>1.1%</td>
</tr>
</tbody>
</table>

### Posted Speed vs. Actual Speed

<table>
<thead>
<tr>
<th>Posted Speed vs. Actual Speed</th>
<th>Observed vehicle speeds (in mph) 85% Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Days</td>
</tr>
<tr>
<td>Alafaya</td>
<td>53</td>
</tr>
<tr>
<td>University</td>
<td>49</td>
</tr>
<tr>
<td>McCulloch</td>
<td>53</td>
</tr>
</tbody>
</table>

Average: 4 to 9 mph over posted speed
UCF/Alafaya Trail Pedestrian Safety Study

Crashes Involving Pedestrians Or Bicyclists (Jan '06 - July '14)

- <25 crashes / mile
- 26 - 40 crashes / mile
- >40 crashes / mile

Site of fatal pedestrian crash (no fatal bicyclist crashes during study period)

1 91 months / about 7½ Years

High Observed Pedestrian Volume
Pedestrian Safety Focus Areas

- This area experiences high volumes of pedestrians and bicycles, combined with higher occurrences of crashes.
- The land uses on both sides of the street encourage cross-street flow of pedestrians and bicycles.
- The area surrounds the primary UCF entryways.
Pedestrian Fencing in medians

Comfortable, wide sidewalks

Pedestrian-scale lighting

Mid-block crosswalks & textured pavement

Smaller turn radii and larger ped. landings

Wider and marked bike lanes
UCF/Alafaya Trail Pedestrian Safety Study

Recommended Improvements

• Enhancements at 5 Major Intersections
• Signalized Midblock Crosswalks
• Enhancements at Minor Roads/Driveways
• 10’ Pedestrian/Bike Path
• General Safety Enhancements
  o Pedestrian fencing
  o Pedestrian-scale lighting
  o Landscaping
  o UCF Branding/Signage
  o Wider sidewalks
UCF/Alafaya Trail Pedestrian Safety Study

Recommended Improvements Plan – Phasing Plan

Phase I (Along UCF Frontage)
- UCF Branding, Signage and Way finding
- Pedestrian fencing (based on Design/Engineering)
- Landscaping between sidewalk and edge of curb
- Intersection enhancements (Alafaya Trl at University Bv)
- Pedestrian-scale lighting
- 10-foot pedestrian/bicycle path (east side of Alafaya Trail)
- Signalized mid-block crosswalks with textured /colored pavement
- Safety education (e.g. UCF Student Orientation)

Phase II
- 8’ sidewalks along the roadway
- Textured crosswalks at minor roadways and driveways
- Additional landscaping (outside UCF area)
- Intersection enhancements at remaining Major Intersections
- Pedestrian Lighting outside of UCF area
University of Central Florida
Campus Master Plan 2015-2025

- Required by Section 1013.30, F.S.
- Adopted November 2010
- 17 Elements
- Requires Campus Development Agreement (CDA)
  - Two public hearings required (per s. 163.3225, F.S.)
Impacts: Alafaya Trail and University Blvd.

Improvements to Eliminate Deficiencies: Partnership Projects

Duration: Effective upon execution and shall remain in effect for 5 years, unless extended by mutual consent

September 22, 2016

Mr. Christopher R. Testerman, AICP
Orange County Government
Assistant County Administrator
201 S. Rosedale Ave., 5th Floor
Orlando, FL 32802-1393

RE: Campus Development Agreement

Dear Mr. Testerman:

Enclosed are two copies of the Campus Development Agreement between The University of Central Florida Board of Trustees and Orange County.

If you find this document to be in accordance with your understanding, please have both copies executed by the appropriate parties, and return one copy to my attention at 3528 North Pershing Loop, Orlando FL 32816-3630.

Sincerely,

Lee Kernek
Associate Vice President for Administration and Finance

Enclosures
## Partnership Projects: UCF Study Phase I

<table>
<thead>
<tr>
<th>Partnership Projects from Safety Study</th>
<th>Est. Cost*</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Provide a 5-foot right-of-way beyond existing FDOT right-of-way</td>
<td>$286,867</td>
<td>Agreement in place no later than Design</td>
</tr>
<tr>
<td>2. Design/construct first phase of Gateway Project at entrance to campus at University By and Alafaya Tr (consistent with Study recommendations for signage, lighting, pedestrian landing areas, turn radii, and landscaping)</td>
<td>$1,900,000</td>
<td>Designed/constructed concurrent to County Capital Improvement Schedule</td>
</tr>
<tr>
<td>3. Pay for installation of 2 signalized mid-block crossings (one on Alafaya Tr near Salon and one on University By near Turbine)</td>
<td>$517,000</td>
<td>Funded upon completion of Design</td>
</tr>
<tr>
<td>4. Install pedestrian-scale lighting within right-of-way along UCF frontage of Alafaya Tr</td>
<td>$75,000</td>
<td>Funded as invoiced by Duke Energy</td>
</tr>
<tr>
<td>5. Contribute funds to traffic signalization changes at Alafaya Tr and University By</td>
<td>Not to Exceed (NTE) $100,000</td>
<td>Funded upon completion of Design</td>
</tr>
<tr>
<td>6. Provide way-finding and signage on Alafaya Tr and University By that UCF determines desirable for branding (with County and FDOT approval for content and stylization)</td>
<td>NTE $50,000</td>
<td>Funded upon completion of Design</td>
</tr>
<tr>
<td>7. Develop/provide Educational Programs related to pedestrian safety</td>
<td>NTE $167,000 per year</td>
<td>Funded yearly as needed (recurring)</td>
</tr>
<tr>
<td>8. Pay monthly rental lease to Duke Energy (maintenance/utilities of lighting)</td>
<td>NTE $25,000 per year</td>
<td>Funded as invoiced by Duke Energy (recurring)</td>
</tr>
</tbody>
</table>

* Estimated Totals: $2,928,867 (one time) and $192,000 (annual recurring)
- Request approval of the UCF/Alafaya Trail Pedestrian Safety Study findings and a finding of consistency of the study recommendations with the Comprehensive Plan

- Request approval of the UCF Campus Development Agreement entered into pursuant to Section 1013.30, Florida Statutes