Appendix A
Public Involvement
PUBLIC INVOLVEMENT PLAN

Waterford Lakes Small Area Study

Orange County, Florida

This Public Involvement Plan is submitted to the Orange County Public Works Department for review and approval.

Submitted by: David Dangel, PE
Project Manager
Inwood Consulting Engineers, Inc.

Date: 7/11/12

Approved: Christy Lofye, PE
Project Manager
Orange County Public Works Department

Date: 2/11/12

July 2012
PUBLIC INVOLVEMENT PLAN
Waterford Lakes Small Area Study
Orange County, Florida

Orange County recognizes that the success of this study is dependent upon a successful public outreach effort. As such, the County is committed to conducting a Public Involvement Plan (PIP) that focuses on soliciting community interaction throughout the entire study. It is believed that the positive value of implementing a strong public involvement effort will result in public awareness of and support for the project.

The purpose of this PIP is to assist in providing information to and obtaining input from concerned citizens, agencies, private groups (residential/business), and governmental entities. The overall goal of this plan is to help ensure that the study reflects the values and needs of the community it is designed to benefit. A schedule of events and list of documentation exhibiting compliance with these procedures are included. The PIP will be updated and amended throughout the study process, as necessary.

I. DESCRIPTION OF THE PROJECT

Project Name: Waterford Lakes Small Area Study

Project Area: The study will evaluate approximately 8 square miles of Waterford Lakes, including the Waterford Lakes Community Association and the Eastwood Community Association. The Waterford Lakes Study Area is shown in Figure 1.

Proposed Activity: The Waterford Lakes area has experienced increased congestion with an increase in residential and commercial development over the last several years. In addition, citizens have voiced concerns related to the safety of vehicles, pedestrians, and bicyclists versus traffic flow, especially near the neighborhood schools. Orange County is addressing these congestion issues and safety concerns by evaluating the overall safety and performance of the roadway and multimodal network within the Waterford Lakes study area in a comprehensive manner. This study will result in a traffic report containing a prioritized list of recommended improvements.

Project Contact Information
For additional information regarding this project contact:

Christy Lofye, PE
Orange County Project Manager
4200 S. John Young Parkway
Orlando, Florida 32839-9205
(407) 836-8682
Christine.Lofye@ocfl.net

David Dangel, PE
Consultant Project Manager
3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
(407) 971-8850
ddangel@inwoodinc.com

Laura Clark, AICP
Consultant Assistant Project Manager
3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
(407) 971-8850
lclark@inwoodinc.com
Waterford Lakes Small Area Study

Legend
- Study Intersections
- Study Roads
- Streets
- Study Area
- Public Schools (OCPS)
  - Elementary School
  - Middle School
- Community Organizations
- Neighborhood Organizations

Figure 1
II. IDENTIFICATION OF AGENCIES AND AFFECTED PUBLIC

The state and local agencies having a concern in this project are listed below. These agencies have been identified and will be contacted by the Project Team via mail or e-mail as part of the stakeholder outreach program. Other concerned public agencies will be listed and contacted as they are identified throughout the study.

STATE:
• Florida Department of Transportation, District Five

REGIONAL:
• East Central Florida Regional Planning Council (ECFRPC)
• METROPLAN Orlando

The following local elected officials and public interest groups having a direct or expressed interest in the project study will be contacted by the Project Team.

Local elected and appointed officials:

• Orange County:
  ➢ Commissioner Scott Boyd District 1
  ➢ Commissioner Fred Brummer District 2
  ➢ Commissioner John M. Martinez District 3
  ➢ Commissioner Jennifer Thompson District 4
  ➢ Commissioner Ted Edwards District 5
  ➢ Commissioner Tiffany Moore Russell District 6
  ➢ Teresa Jacobs Mayor
  ➢ Ajit Lalchandani County Administrator
  ➢ Jerry L. Demings Sheriff
  ➢ Joseph Washington Fire Marshal/ Division Chief
  ➢ Barbara Jenkins Superintendent of Schools
  ➢ Bill Sublette School Board Chair
  ➢ Daryl Flynn School Board, District Two

• Regional:
  ➢ Interim Executive Director Hugh Harling East Central Florida Regional Planning Council
  ➢ Executive Director Harold W. Barley
  ➢ BPAC Member Mighk Wilson METROPLAN Orlando

• Public Interest Organizations
  ➢ Orange County Environmental Protection Division (EPD)
  ➢ Orange County Parks and Recreation
  ➢ East Orlando Chamber of Commerce
  ➢ LYNX Central Florida Regional Transportation Authority
  ➢ Orlando-Orange County Expressway Authority (OOCEA)
  ➢ University of Central Florida (UCF)
III. Public Notification

The following techniques will be employed to notify the public of the project and to solicit public input into the study process:

- Invitational postcards
- HOA informational newsletters
- News releases to the media
- Public notices - display ads for community meetings
- Public announcements on the County web site, Commissioner Jennifer Thompson’s Facebook account, HOA web sites, and other related sites
- Project web site
- Direct mailing list - A direct mailing list will be established and updated throughout the project. Orange County will prepare and distribute postcards for notification of community meetings to all homeowners/property owners and other interested parties, organizations, agencies or businesses that request to be placed on the mailing list for this project.

All public notification documents will be submitted to the Orange County Project Manager for review and approval.

PROJECT WEB SITE:

A project web site will be created for this project. This site will be hosted within the Orange County web site. The web site will provide an overview of the project, notification of upcoming events, an online comment form, project updates and contact information. Limited graphics will be available due to the size and downloading time for many graphical applications. The site will serve as a “central hub” for those involved in the study process and will allow for interested parties to provide input via an online comment form or by directly contacting members of the Project Team. The web site will include information in Spanish and a Spanish speaking contact. The web site will be updated as needed throughout the study process.

PROJECT NEWSLETTERS AND POSTCARDS:

Newsletters will be prepared at various key points during the study and will be distributed to the area HOA representatives and major stakeholders. The newsletters will be distributed at least two weeks prior to the scheduled meetings. Those newsletters not mailed shall be distributed as needed through the HOA representative meetings. Four (4) newsletters are anticipated for this project.

Orange County will prepare and distribute postcards for notification of community meetings to all homeowners/property owners and other interested parties prior to each community meeting.
IV. COMMUNITY MEETINGS

The following public informational meetings will be held to involve the public, local officials and interested agencies in the study process, to glean input, and to inform the interested parties of the project’s current status:

A. Community Workshop – A project kick-off community workshop will be held at two different locations throughout the Waterford Lakes Study Area to collect citizen feedback.

B. Agency Coordination Meetings – Coordination meetings will be held with the Florida Department of Transportation (FDOT), Orange County Public Schools (OCPS) and LYNX to inform them of the project and solicit their input.

C. HOA Representative Meetings – Two HOA representative meetings will be held to engage HOA representatives in the study process.

D. Community Meeting – A community meeting will be held at two different locations throughout the Waterford Lakes Study Area to present the study results to date and to collect additional citizen feedback.

E. BOCC Presentation – An overview of the project and the results of the study will be presented to the Orange County BOCC toward the end of the project.

VI. PROJECT SCHEDULE

The anticipated schedule of activities for the Waterford Lakes Small Area Study is included on the following pages.
<table>
<thead>
<tr>
<th>Task</th>
<th>Start</th>
<th>Finish</th>
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<tbody>
<tr>
<td>Task 9 - Signal Warrants (Optional Services)</td>
<td>Mon 8/6/12</td>
<td>Fri 4/13/13</td>
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<tr>
<td>Task 10 Deliverables</td>
<td>Mon 9/17/12</td>
<td>Fri 4/13/13</td>
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<td>Task 11 - Report Preparation</td>
<td>Thu 6/14/12</td>
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Waterford Lakes
Small Area Study

Purpose Of The Study
Orange County Traffic Engineering is conducting a comprehensive traffic and safety review for the Waterford Lakes area. The study will include the collection of vehicle, pedestrian and bicycle traffic counts on several major roadways and intersections, an assessment of school pedestrian safety, an evaluation of existing and future transit service and related mobility concerns, an inventory of traffic control devices, striping and roadway infrastructure, and an analysis of intersection and roadway capacity. The study will result in a list of low, medium and high priority improvements that are ranked in order based on need and cost.

HOA Representatives Meeting Scheduled
A meeting has been scheduled with the homeowners association (HOA) representatives for neighborhoods within the study area. This meeting will be held on Monday, August 13, 2012 at the Discovery Middle School cafeteria from 6:30 pm to 7:30 pm. A project overview presentation will be given at 6:30 pm followed by a discussion and information sharing. The purpose of the meeting is to discuss issues within the study area with each HOA representative that need to be evaluated as part of this study. Please be prepared to discuss issues related to traffic congestion, pedestrian and bicyclist safety, and roadway safety. Please note that this meeting is for HOA representatives only. Community meetings will be held in September for the general public.

What Is The Schedule?
The Waterford Lakes Small Area Study began in May of 2012 and is scheduled to be complete in May of 2013. Following this HOA meeting, a series of community meetings will be held to gather information from the residents within the study area. Early in 2013, a second series of HOA and community meetings will be held to present the draft results of the study with recommendations for review prior to finalizing the study.

Project Schedule

Orange County Mayor
Teresa Jacobs

District 4 Commissioner
Jennifer Thompson

= Community Meeting
= HOA Meeting
= HOA Newsletters
= Orange County BCC Presentation
= Community Meeting Flyers
= Orange County BCC Presentation

Data Collection
Engineering Analysis
Report Preparation
Public Involvement

2012
May June July Aug Sept Oct Nov Dec
Jan Feb Mar Apr May June

2013
Apr May Jan Feb Mar

= Community Meeting
= HOA Meeting
= HOA Newsletters
= Orange County BCC Presentation
= Community Meeting Flyers
= Orange County BCC Presentation
What Area Does The Study Include?

The study area is generally south of E. Colonial Drive (SR 50), east of Alafaya Trail, north of Golfway Boulevard, and west of Avalon Park Boulevard. The study area includes the entire Waterford Lakes Master Community Association and the Eastwood Master Community Association.

How You Can Help

We encourage you to participate in the Waterford Lakes Small Area Study and invite your questions and comments. As part of this study, Orange County staff and District 4 Commissioner Jennifer Thompson, will host meetings within the community. These will include meetings with homeowners association representatives, as well as community meetings. All property owners within the study area will receive meeting notices. The purpose of these meetings will be to gather information from the community to assist in the identification of issues and then to present the findings of the study to the community.

Save The Date

The first series of community meetings will be held on Monday, September 24, 2012 and Wednesday, September 26, 2012 at the Waterford Lakes Elementary School cafeteria from 6:30 pm to 7:30 pm.

Contact Us

If you have questions regarding this project, please contact the Orange County Project Manager, Ms. Christy Lofye, at (407) 836-8682 or by e-mail at Christine.Lofye@ocfl.net. Written comments and questions can be mailed to:

Waterford Lakes Small Area Study
Attention: Christy Lofye, P.E.
Orange County Public Works
Traffic Engineering Division
4200 S. John Young Parkway
Orlando, Florida 32839-9205

Para hablar con alguien en español por favor contacte Mayda Leon al 407-836-7890.

Visit Us On The Web!

You may also stay involved in the study process by visiting the project web site. The web site provides additional information and the latest updates on the project. Moreover, you will have the opportunity to submit your comments and questions to the study team. Directions on how to navigate to the project web site are provided below.

www.orangecountyfl.net

From the “Residents” tool bar --> Pick “Traffic and Transportation” --> Then “Waterford Lakes Small Area Study”
HOA Representatives Meeting #1 - Monday, August 13, 2012

**Study Area:**

- Generally south of SR 50 (E. Colonial Drive), east of Alafaya Trail, north of Golfway Boulevard, west of Avalon Park Boulevard
- Includes all of Waterford Lakes Community Association and Eastwood Community Association

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**Waterford Lakes Small Area Study**

**Legend**
- Study Intersections
- Study Roads
- Streets
- Study Area

**Public Schools (OCPS)**
- Elementary School
- Middle School

**Community Organizations**
- Neighborhood Organizations

**Figure 1**

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*Orange County Mayor*
Teresa Jacobs

*District 4 Commissioner*
Jennifer Thompson
**Study Elements**

- Collection of Traffic Counts
- School Safety Review
- Pedestrian and Bicycle Safety Review
- Transit Evaluation
- Assessment of Existing Traffic Control Devices and Infrastructure
- Intersection Capacity Analysis
- Roadway Corridor Analysis
- Speed Studies
- Traffic Signal Warrants
- Review of Access Management
- Public Involvement
- Report Preparation

**Public Involvement**

- HOA Representative Meetings
  - First – August 13, 2012
  - Second – January 2013
- Community Meetings
  - First – September 24 and 26, 2012
  - Second – February 2013
- Agency Coordination Meetings
  - LYNX – July 9, 2012
  - OCPS – July 16, 2012
  - FDOT – July 24, 2012
- BCC Presentation
  - May 2013
- Study Web Page
  - www.orangecountyfl.net
  - From the “Residents” tool bar --> Pick “Traffic and Transportation” --> Then “Waterford Lakes Small Area Study”

**Study Product**

The product of the study is a comprehensive report with a prioritized list of safety and capacity improvements comprised of low-cost short-term improvements, mid-range improvements, and long-term higher-cost capital improvements.
Study Roadways

1. Alafaya Trail – SR 50 to Mark Twain Boulevard
2. Avalon Park Boulevard – SR 50 to Waterford Chase Parkway
3. Lake Underhill Road – Alafaya Trail to Waterford Chase Parkway
4. Mark Twain Boulevard – Alafaya Trail to Lake Underhill Road
5. Waterford Chase Parkway – Lake Underhill Road to Avalon Park Boulevard
6. Waterford Lakes Parkway – Alafaya Trail to Woodbury Road
7. Woodbury Road – SR 50 to Golfway Boulevard
8. Waterford Chase Parkway at Avalon Park Boulevard
9. Waterford Lakes Parkway at Alafaya Trail
10. Waterford Lakes Parkway at Woodbury Road
11. Woodbury Road at SR 50
12. Woodbury Road at Lake Underhill Road
13. Woodbury Road at Golfway Boulevard

Key Intersections

1. Alafaya Trail at SR 50
2. Avalon Park Boulevard at SR 50
3. Avalon Park Boulevard at Castle Creek Elementary
4. Lake Underhill Road at Alafaya Trail
5. Lake Underhill Road at Mark Twain Boulevard
6. Lake Underhill Road at Waterford Chase Parkway
7. Waterford Chase Parkway at Avalon Park Boulevard
8. Waterford Lakes Parkway at Alafaya Trail
9. Waterford Lakes Parkway at Woodbury Road
10. Waterford Lakes Parkway at Alafaya Trail
11. Waterford Lakes Parkway at Woodbury Road
12. Woodbury Road at SR 50
13. Woodbury Road at Lake Underhill Road
14. Woodbury Road at Golfway Boulevard

Schools

1. Waterford Lakes Elementary School
2. Discovery Middle School
3. Castle Creek Elementary School
4. Camelot Elementary School
5. Sunrise Elementary School
Thank you for attending this meeting!

Project Schedule
Waterford Lakes Small Area Study

Data Collection
Engineering Analysis
Report Preparation
Public Involvement

Project Contact Information
Christy Lofye, P.E.
Orange County Project Manager
Orange County Public Works
Traffic Engineering Division
4200 S. John Young Parkway
Orlando, FL 32839-9205
Phone: 407-836-8682
E-mail: christine.lofye@ocfl.net

Para hablar con alguien en español por favor contacte Mayda Leon al 407-836-7890.
Waterford Lakes Small Area Study

HOA Representatives Meeting No. 1

Commission District 4
August 13, 2012

Presentation Outline

- Purpose of the Study
- Study Area
- Study Area Roadways, Intersections and Schools
- Study Elements
- What We Have Completed
- Public Involvement
- Study Schedule
- What We Need From You
**Purpose of the Study**

The purpose of the Waterford Lakes Small Area Study is to take a comprehensive, proactive look at the area and develop a prioritized list of safety and capacity improvements made up of low cost, short term improvements, mid-range improvements and higher-cost capital improvements.

**Study Area**

[Map of Waterford Lakes Small Area Study]
Study Area Roadways

- Alafaya Trail - SR 50 to Mark Twain Blvd.
- Avalon Park Blvd. - SR 50 to Waterford Chase Pkwy.
- Lake Underhill Rd. - Alafaya Trail to Waterford Chase Pkwy.
- Mark Twain Blvd. - Alafaya Trail to Lake Underhill Rd.
- Waterford Chase Pkwy. - Lake Underhill Rd. to Avalon Park Blvd.
- Waterford Lakes Pkwy. - Alafaya Trail to Woodbury Rd.
- Woodbury Rd. - SR 50 to Golfway Blvd.

Study Area Intersections

- Alafaya Trail @ SR 50
- Avalon Park Blvd. @ SR 50
- Avalon Park Blvd. @ Castle Creek Elem.
- Lake Underhill Rd. @ Alafaya Trail
- Lake Underhill Rd. @ Mark Twain Blvd.
- Lake Underhill Rd. @ Waterford Chase Pkwy.
- Waterford Chase Pkwy. @ Avalon Park Blvd.
- Waterford Lakes Pkwy. @ Alafaya Trail
- Waterford Lakes Pkwy. @ Woodbury Rd.
- Woodbury Rd. @ SR 50
- Woodbury Rd. @ Lake Underhill Rd.
- Woodbury Rd. @ Golfway Blvd.
**Study Area Schools**

- Waterford Lakes Elementary
- Castle Creek Elementary
- Camelot Elementary
- Sunrise Elementary
- Discovery Middle

**Study Elements**

- Traffic Counts
- School Safety Review
- Pedestrian and Bicycle Safety Review
- Crash Analysis
- Transit Evaluation
- Assess Existing Traffic Control and Infrastructure
- Intersection Capacity Analysis
**Study Elements**

- Roadway Corridor Analysis
- Speed Studies
- Traffic Signal Warrants
- Review Access Management
- Public Involvement

**What We Have Completed**

- Existing traffic counts
- Existing pedestrian and bicyclist counts
- Existing intersection capacity analyses
- Crash analysis for study area intersections
- Initial school safety reviews
- Data collection of existing conditions of roadway and intersection infrastructure

Waterford Lakes Small Area Study
Public Involvement

- Agency Meetings
  - LYNX
  - OCPS
  - FDOT
- HOA Rep. Meetings
- Community Meetings
- Study Web Page
- BCC Presentation

Waterford Lakes Small Area Study

Public Involvement

- Agency Meetings
  - LYNX - July 9, 2012
    - Discussed existing and future transit
  - OCPS - July 16, 2012
    - Discussed school safety issues
  - FDOT - July 24, 2012
    - Discussed SR 50 improvements

Waterford Lakes Small Area Study
Public Involvement

- HOA Rep. Meetings
  - First - August 13, 2012
  - Second - January 2013
- Community Meetings
  - First - September 24 & 26, 2012
  - Second - February 2013
- BCC Presentation
  - May 2013

Public Involvement

- Study Web Page
  - [www.orangecountyfl.net](http://www.orangecountyfl.net)
  - Once there, select the Residents tab at the top of the page.
  - Next, click on the Traffic and Transportation link near the bottom of the page
  - Finally, select the Waterford Lakes Small Area Study link
Help with getting the word out:

- reminders at HOA meetings
- email blasts
- direct to webpage
What We Need From You

- Traffic congestion concerns
- Safety concerns (vehicles, pedestrians, bicyclists)
- School safety concerns
- Maintenance issues

Contact Information

Christy Lofye, P.E.

Orange County Public Works Department
Traffic Engineering Division
4200 S. John Young Parkway
Orlando, FL 32839-9205

Phone: 407-836-8682
E-mail: christine.lofye@ocfl.net
Waterford Lakes
Small Area Study

Community Meetings

Commission District 4
September 24 and 26, 2012

Presentation Outline

- Purpose of the Study
- Study Area
- Study Area Roadways, Intersections and Schools
- Study Elements
- What We Have Completed
- Public Involvement
- Study Schedule
- What We Need From You
Purpose of the Study

The purpose of the Waterford Lakes Small Area Study is to take a comprehensive, proactive look at the area and develop a prioritized list of safety and capacity improvements made up of low cost, short term improvements, mid-range improvements and higher-cost capital improvements.

Study Area

Waterford Lakes Small Area Study
Study Area Roadways

- Alafaya Trail - SR 50 to Mark Twain Blvd.
- Avalon Park Blvd. - SR 50 to Waterford Chase Pkwy.
- Lake Underhill Rd. - Alafaya Trail to Waterford Chase Pkwy.
- Mark Twain Blvd. - Alafaya Trail to Lake Underhill Rd.
- Waterford Chase Pkwy. - Lake Underhill Rd. to Avalon Park Blvd.
- Waterford Lakes Pkwy. - Alafaya Trail to Woodbury Rd.
- Woodbury Rd. - SR 50 to Golfway Blvd.

Study Area Intersections

- Alafaya Trail @ SR 50
- Avalon Park Blvd. @ SR 50
- Avalon Park Blvd. @ Castle Creek Elem.
- Lake Underhill Rd. @ Alafaya Trail
- Lake Underhill Rd. @ Mark Twain Blvd.
- Lake Underhill Rd. @ Waterford Chase Pkwy.
- Waterford Chase Pkwy. @ Avalon Park Blvd.
- Waterford Lakes Pkwy. @ Alafaya Trail
- Waterford Lakes Pkwy. @ Woodbury Rd.
- Woodbury Rd. @ SR 50
- Woodbury Rd. @ Lake Underhill Rd.
- Woodbury Rd. @ Golfway Blvd.
Study Area Schools

- Waterford Lakes Elementary
- Castle Creek Elementary
- Camelot Elementary
- Sunrise Elementary
- Discovery Middle

Study Elements

- Traffic Counts
- School Safety Review
- Pedestrian and Bicycle Safety Review
- Crash Analysis
- Transit Evaluation
- Assess Existing Traffic Control and Infrastructure
- Intersection Capacity Analysis
Study Elements

- Roadway Corridor Analysis
- Speed Studies
- Traffic Signal Warrants
- Review Access Management
- Public Involvement

What We Have Completed

- Existing traffic counts
- Existing pedestrian and bicyclist counts
- Existing intersection capacity analyses
- Crash analysis for study area intersections
- Initial school safety reviews
- Data collection of existing conditions of roadway and intersection infrastructure
Public Involvement

- Agency Meetings
  - LYNX
  - OCPS
  - FDOT
  - HOA Rep. Meetings
  - Community Meetings
  - Study Web Page
  - BCC Presentation

Waterford Lakes Small Area Study

Public Involvement

- Agency Meetings

  - LYNX - July 9, 2012
    - Discussed existing and future transit

  - OCPS - July 16, 2012
    - Discussed school safety issues

  - FDOT - July 24, 2012
    - Discussed SR 50 improvements

Waterford Lakes Small Area Study
Public Involvement

- HOA Rep. Meetings
  - First - August 13, 2012
  - Second - January 2013
- Community Meetings
  - First - September 24 & 26, 2012
  - Second - February 2013
- BCC Presentation
  - May 2013

Waterford Lakes Small Area Study

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Public Involvement

- Study Web Page
  - [www.orangecountyfl.net](http://www.orangecountyfl.net)
  - Once there, select the Residents tab at the top of the page.
  - Next, click on the Traffic and Transportation link near the bottom of the page
  - Finally, select the Waterford Lakes Small Area Study link

Waterford Lakes Small Area Study
**Project Schedule**

**What We Need From You**

- Traffic congestion concerns
- Safety concerns (vehicles, pedestrians, bicyclists)
- School safety concerns
- Maintenance issues
Contact Information

Christy Lofye, P.E.

Orange County Public Works Department
Traffic Engineering Division
4200 S. John Young Parkway
Orlando, FL 32839-9205

Phone: 407-836-8682
E-mail: christine.lofye@ocfl.net
Waterford Lakes Small Area Study – Waterford Elementary Meeting Minutes

**Mtg. Date:** August 16, 2012

**Time:** 9:00 am

**Location:** Waterford Elementary School

**Project:** Waterford Lakes Small Area Study

**Attendees:**
- David Dangel – Inwood
- Laura Clark – Inwood
- Charles Lindlau – Principal – Waterford Elementary

David began the meeting by introducing the study team and providing an overview of the project. He indicated that the study team has conducted preliminary safety studies at the five schools within the study area, including Waterford Elementary. David pointed out that there were no real safety issues identified at Waterford Elementary School and asked Principal Lindlau if he was aware of any issues that the study needed to address. Principal Lindlau stated that the only issue that he was aware of is where kids have to cross where neighborhood streets intersect with Woodbury Road when walking to school because there are no crossing guards at those locations.

David stated that an HOA stakeholder meeting was held on Monday, August 13 at 6:30 PM at the Discovery Middle School cafeteria. He also noted that community meetings are scheduled for Monday, September 24 and Wednesday, September 26 in the Waterford Elementary School cafeteria.

The meeting adjourned at 9:15 am.

cc: Christy Lofye (via e-mail)

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**Note:** The above reflects the writer’s understanding of the contents of the meeting. If any misinterpretations or inaccuracies are included, please contact David Dangel at (407) 971-8850 as soon as possible for resolution and revisions if necessary.
Waterford Lakes Small Area Study – Camelot Elementary Meeting Minutes

Mtg. Date: August 8, 2012
Time: 10:00 am
Location: Camelot Elementary School
Project: Waterford Lakes Small Area Study

Attendees:
- Christy Lofye – OCPW Traffic
- Kevin Miller – OCPW Traffic
- David Dangel – Inwood
- Laura Clark – Inwood
- Curry Aldridge – Principal – Camelot Elementary

Christy began the meeting by introducing the study team and providing an overview of the project. She indicated that the study team has conducted preliminary safety studies at the five schools within the study area, including Camelot Elementary. Laura pointed out that there were no real safety issues identified at Camelot Elementary School and asked Principal Aldridge if she was aware of any issues that the study needed to address. Most of the issues at the school are related to internal circulation and pedestrian cross walks on the school campus. She did say that some parents park at the Walgreens across the road from the school to pick up their kids in the afternoon. This does not seem to be a problem because the kids can cross Avalon Park Boulevard at a traffic signal with a crossing guard.

Laura pointed out that it appeared that some parents park in front of the houses on the road across from the school when picking up their kids in the afternoon. Kevin stated that Orange County cannot install no parking signs on private property unless the residents agree to it. Principal Aldridge said that some of the people who park on the street are the residents of the houses and it would be hard to tell if cars belong to residents or parents. Laura also noted that the sidewalk from Crystal Bay Lane terminates in a ramp that does not line up with the cross walk across Waterford Chase Parkway. Finally, Laura pointed out that some cars heading westbound on Waterford Chase Parkway get into the eastbound lane to go around through and right turning traffic to get into the left hand turn lane at Avalon Park Boulevard.

Christy stated that an HOA stakeholder meeting is scheduled for Monday, August 13 at 6:30 PM at the Discovery Middle School cafeteria. She also noted that community meetings are scheduled for Monday, September 24 and Wednesday, September 26.

The meeting adjourned at 10:30 am.

cc: Christy Lofye (via e-mail)

Note: The above reflects the writer’s understanding of the contents of the meeting. If any misinterpretations or inaccuracies are included, please contact David Dangel at (407) 971-8850 as soon as possible for resolution and revisions if necessary.
Waterford Lakes Small Area Study – OCPS Meeting Minutes

Mtg. Date: July 16, 2012

Time: 11:00 am

Location: Orange County Public Schools – 8th Floor Conference Room

Project: Waterford Lakes Small Area Study

Attendees:
- Christy Lofye – OCPW Traffic
- Kevin Miller – OCPW Traffic
- Tyrone Smith – OCPS
- Jason Loomis – OCPS
- Michael Ganio – OCPS
- Kyle Wilkes – OCPS
- Jessma Lambert – OCPS
- Julie Salvo – OCPS
- David Dangel – Inwood Consulting Engineers
- Laura Clark – Inwood Consulting Engineers

Christy began the meeting by introducing the study team and providing an overview of the project. She then turned the meeting over to David. David asked everyone to introduce themselves. He then explained that the study team conducted a safety review at each of the five schools within the study area on May 31st. Next, David gave an overview of the review conducted at Discovery Middle School and Waterford Elementary School. No sight distance issues related to pedestrians were noted at the Lake Underhill Road/Woodbury Road intersection. However, it was noted that the northbound left turn queue on Woodbury Road extends beyond the entrances to Discovery Middle School and Waterford Lakes Elementary for a short period and the westbound through traffic queue blocks the westbound to southbound vehicles from the left turn lane. David reported seeing some middle school children crossing diagonally through the intersection instead of using the crosswalk because the all-red phase is not enough time to cross two separate legs, and most likely because it is a shorter distance. Kevin noted that the County has received a lot of complaints regarding the all way pedestrian phase at the intersection of Lake Underhill Road and Woodbury Road. David reported that the all red ped phase is 30 seconds long and can only be actuated from 8:00 am to 9:45 am and from 2:45 pm to 4:35 pm. The crossing guards typically activate the all red ped phase every other cycle, not excessively.

Laura then provided an overview of the safety review conducted at Castle Creek Elementary. She reported that the pick-up and drop-off at Castle Creek Elementary functioned very well. Most of the children that walked or rode their bikes came from the north and used the wide sidewalk at the north end of the parking lot to access the school and; therefore, didn’t need to use the crosswalk. Queuing was not an issue in the AM or PM. Tyrone stated that they have received some requests for a speed reduction on Avalon Park Boulevard, near Castle Creek Elementary, due to the perception of the road safety. Laura stated that it seemed as though more children were dropped off in a vehicle instead of walking or riding their bikes.

Laura then discussed the issues noted during the review of Camelot Elementary. She indicated that one curb ramp is needed at the intersection of Crystal Bay Lane and Waterford Chase Parkway. The existing
curb ramp does not line up with the crosswalk on Waterford Chase Parkway. Kevin asked if the reviewer noticed any indication that the crosswalk is part of the Best Foot Forward campaign. Laura and David said they will look into this. In addition, on-street parking was observed in the afternoon on Waterford Chase Parkway, east of Crystal Bay Lane, across from the school. Kevin noted that the school can request a no parking sign, but depending on the location of the on-street parking, they may also need to get buy-in from the neighborhood residents. Cars were also observed jumping out of line on Waterford Chase Parkway into the opposing traffic lane to access the left turn lane on Waterford Chase Parkway at the intersection with Avalon Park Boulevard.

Next, David provided a brief overview of the review conducted at Sunrise Elementary. He reported that some cars rolled through the stop sign to turn right off of Lone Palm Drive onto Golfway Boulevard; however, no major issues were observed at this school.

Kyle stated that he will obtain the number of buses for each school and provide this information to the group.

Tyrone asked if the study team could make any recommendations at this point. David stated that recommendations won't be developed until later; however, it might be beneficial to install a flashing signal on Avalon Park Boulevard near Camelot and Castle Creek Elementary. Kevin reported that flashers are typically not installed at a school if there is a signalized intersection.

Next, Jessma provided an overview of the planned improvements to Waterford Elementary. The improvements include replacing the portables with buildings, renovations to the core buildings, and the addition of retention across the street. The construction is expected to begin next fall and should be complete in 2015.

Christy stated that an HOA stakeholder meeting is currently scheduled for Monday, August 13 at 6:30 PM at the Discovery Middle School cafeteria. She also noted that community meetings are scheduled for Monday, September 24 and Wednesday, September 26.

The meeting adjourned at 12:00 noon.

cc: Christy Lofye (via e-mail)

Note: The above reflects the writer's understanding of the contents of the meeting. If any misinterpretations or inaccuracies are included, please contact David Dangel at (407) 971-8850 as soon as possible for resolution and revisions if necessary.
OCPS Sign In  
Waterford Lakes Small Area Study  
11:00 AM  

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>e-mail</th>
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<tbody>
<tr>
<td>David Dangel</td>
<td>Inwood</td>
<td><a href="mailto:ddangel@inwood-inc.com">ddangel@inwood-inc.com</a></td>
</tr>
<tr>
<td>Laura Clark</td>
<td></td>
<td><a href="mailto:lclark@inwood-inc.com">lclark@inwood-inc.com</a></td>
</tr>
<tr>
<td>Jessica Lambert</td>
<td>OCPS</td>
<td><a href="mailto:lamberje@ocps.net">lamberje@ocps.net</a></td>
</tr>
<tr>
<td>Jason Lemons</td>
<td>OCPS</td>
<td><a href="mailto:Jason.Lemons@ocps.net">Jason.Lemons@ocps.net</a></td>
</tr>
<tr>
<td>Julie Salvo</td>
<td>OCPS</td>
<td><a href="mailto:julie.sabo@ocps.net">julie.sabo@ocps.net</a></td>
</tr>
<tr>
<td>Kevin M. Lee</td>
<td>OC Traffic</td>
<td><a href="mailto:kevin.m.lee@ocps.net">kevin.m.lee@ocps.net</a></td>
</tr>
<tr>
<td>Tyrone Smith</td>
<td>OCPS</td>
<td><a href="mailto:tyrone.smith@ocps.net">tyrone.smith@ocps.net</a></td>
</tr>
<tr>
<td>Christy Lofya</td>
<td>OC Police Traffic</td>
<td><a href="mailto:christine.lofya@ocps.net">christine.lofya@ocps.net</a></td>
</tr>
<tr>
<td>Michael Gario</td>
<td>OCPS</td>
<td><a href="mailto:michael.gario@ocps.net">michael.gario@ocps.net</a></td>
</tr>
<tr>
<td>Kyle Wilkes</td>
<td>OCPS Transportation</td>
<td><a href="mailto:kyle.wilkes@ocps.net">kyle.wilkes@ocps.net</a></td>
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</table>
Waterford Lakes Small Area Study – LYNX Meeting Minutes

Mtg. Date: July 9, 2012
Time: 2:00 pm
Location: LYNX – 455 N. Garland Avenue
Project: Waterford Lakes Small Area Study

Attendees: Christy Lofye – OCPW Traffic
Kevin Miller – OCPW Traffic
Jeff Reine – LYNX
Andrea Ostrodka – LYNX
David Dangel – Inwood Consulting Engineers
Laura Clark – Inwood Consulting Engineers

Christy began the meeting by introducing the study team and providing an overview of the project. She then turned the meeting over to David. David asked about the existing routes and bus stops shown on the LYNX Existing and Future Transit Map. Jeff confirmed that the existing route surrounding the Waterford Town Center is the Knight LYNX service that only runs Friday and Saturday from 8:00 am to 3:00 pm. He also reported that the existing LYNX Bithlo Pick-up Line, currently referred to as the LYNX Neighborhood Link, is also available in the Waterford Lakes area. Riders may call in advance and reserve a pick-up time. The goal of the service is to provide a two-hour window to get riders to a fixed bus route.

Next, there was a discussion of the future planned routes in the Waterford Lakes study area. Jeff noted that the future park and ride location shown on the map provided is subject to change. It’s possible that the site may be relocated to the area south of Lake Underhill Road and west of Alafaya Trail. Andrea suggested that the study team review the 2013 Transit Development Plan (TDP) for future planned routes. She noted that the TDP is a ten-year needs-based analysis that is based on demand; therefore, the routes may not be funded. Christy stated that the County would like to see a route along Woodbury Road, and the Commissioner would like a line to serve apartments in the area along Woodbury. Jeff explained that there are currently no stops on Woodbury Road as far as he knows, but he will confirm this. Andrea offered to do a site visit, if necessary. She noted that there is a planned express bus service coming from the east on SR 50 (E. Colonial Drive) that would turn left onto Woodbury Road and right onto Lake Underhill Road.

David asked about the process to determine where bus stops are located. Jeff indicated that, per the Florida Administrative Code (FAC), they are not required to coordinate with the County for the location of bus stops. However, LYNX typically coordinates with addressing, building and right-of-way. He added that they will typically look for transit generators, or look at an area based on phone call requests. Stops are generally located approximately every quarter of a mile and it is preferred that stops are located directly across the street from stops in the opposing direction. Bus stops cannot block an intersection and a far side stop at a school may be a safety concern. Jeff added that the study team is welcome to suggest bus stop locations as part of this project and LYNX staff would be happy to coordinate.
Christy stated that the study team will provide all transit related questions and comments to the LYNX staff. She added that Jeff, Andrea and Laura Minns will be included on the mailing list so they will receive notification of upcoming community meetings.

Jeff said that he will provide ridership data for the existing Knight LYNX route through the Waterford Town Center.

Andrea added that Metroplan Orlando recently completed a study including a summary of the most dangerous pedestrian intersections, which may be worth reviewing for this project.

The meeting adjourned at 3:00 pm.

cc: Christy Lofye (via e-mail)

Note: The above reflects the writer’s understanding of the contents of the meeting. If any misinterpretations or inaccuracies are included, please contact David Dangel at (407) 971-8850 as soon as possible for resolution and revisions if necessary.
Waterford Lakes Small Area Study – FDOT Meeting Minutes

Mtg. Date: July 24, 2012

Time: 2:30 pm

Location: FDOT D-5 DeLand – Live Oak Conference Room

Project: Waterford Lakes Small Area Study

Attendees:
- Christy Lofye – OCPW Traffic
- Hazem El-Assar – OCPW Traffic
- Rick Morrow – FDOT
- Chris Cairns - FDOT
- Joan Carter - FDOT
- Chris Dabson – FDOT
- Susan Makowski – Commissioner Thompson’s Aide
- David Dangel – Inwood Consulting Engineers
- Laura Clark – Inwood Consulting Engineers
- Vinod Vishwantha - GMB

Christy began the meeting by asking everyone to introduce themselves. She then gave an overview of the project and turned the meeting over to Vinod for a discussion of the intersection capacity analyses conducted by GMB at the intersections of Alafaya Trail, Woodbury Road and Avalon Park Boulevard with SR 50. Vinod reported that existing signal timings were used for the analysis. Christy noted that there isn’t much that can be done at the intersection of Alafaya Trail and SR 50; however, the intersection of Woodbury Road and SR 50 is at capacity with the existing counts. Vinod reported that the WB left movement in the PM Peak hour is at the brink of failure. Christy asked if there is an opportunity to add dual lefts at this intersection. She noted that a Publix and a hotel are also planned along Woodbury Road. Rick reported that 100% plans are scheduled for November of this year, although the intersection is designed for future additional turn lanes. The design team will need to review the implications of making this change before a determination can be made. Chris Dabson said it would be easier to include this change if the project goes to design/build; otherwise it’s a quick turnaround. He added that the production date is May 1, 2013 and the letting date is May 4th, 2014. Vinod agreed to develop a separate memo for the intersection of SR 50 and Woodbury Road to provide to DOT within the next couple of weeks.

Christy noted that the HCS analysis at SR 50 and Avalon Park Boulevard assumed only one NB left lane. This is an issue with the latest versions of HCS and Synchro. Vinod reported that he will try analyzing the intersection by removing the through lanes. Hazem asked if it could be a dual left. Rick stated that the existing geometry would need to be modified.

Christy stated that the crash data showed a couple of bike crashes at the intersection of SR 50 and Woodbury Road. She asked about providing MUTCD signage to increase awareness at this intersection. Rick indicated that is not something that would be provided as part of the SR 50 improvements. The issue is cars rounding right turns on red; it’s not really a signage issue. Joan added that those signs are generally not used because they may imply that people don’t need to yield to bicyclists elsewhere. A less aggressive radius would force people to slow down.
Joan noted that, according to the Safe Routes to Schools projects, a high volume of traffic is picking up and dropping off kids. This could be resolved by making opportunities to connect neighborhoods and schools. Rick added that school traffic is a big complaint, but neighborhoods are closed off and connectivity is an issue. Joan indicated that foreclosures in the area may provide opportunities to purchase key property for a “pass through” or a pocket park.

Christy reported that two community meetings are planned for the end of September. Property owners north of Lake Underhill Road are encouraged to attend a meeting on September 24th and those who live south of Lake Underhill are encouraged to attend a meeting on September 26th. Both meetings will be held at the Waterford Lakes Elementary School cafeteria. The results of this study will be presented at two community meetings tentatively scheduled for February of 2013.

The meeting adjourned at 3:30 pm.

cc: Christy Lofye (via e-mail)

*Note: The above reflects the writer’s understanding of the contents of the meeting. If any misinterpretations or inaccuracies are included, please contact David Dangel at (407) 971-8850 as soon as possible for resolution and revisions if necessary.*
<table>
<thead>
<tr>
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<th>Name</th>
<th>Business or Group</th>
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</thead>
<tbody>
<tr>
<td>C.L.</td>
<td>Christy Lofye</td>
<td>Orange County</td>
<td><a href="mailto:christine.lofye@ocfl.net">christine.lofye@ocfl.net</a></td>
<td>407-836-8682</td>
</tr>
<tr>
<td>H.E.</td>
<td>Hazem El-Assar</td>
<td>Orange County</td>
<td><a href="mailto:hazem.el-assar@ocfl.net">hazem.el-assar@ocfl.net</a></td>
<td>407-836-7866</td>
</tr>
<tr>
<td>R.E.H.</td>
<td>Rick Morrow</td>
<td>FDOT</td>
<td><a href="mailto:rick.morrow@dot.myflorida.com">rick.morrow@dot.myflorida.com</a></td>
<td>386-943-5309</td>
</tr>
<tr>
<td>C.C.C.</td>
<td>Chris Cairns</td>
<td>FDOT</td>
<td><a href="mailto:christopher.cairns@dot.myflorida.com">christopher.cairns@dot.myflorida.com</a></td>
<td>386-943-5328</td>
</tr>
<tr>
<td></td>
<td>Joan Carter</td>
<td>FDOT</td>
<td><a href="mailto:joan.carter@dot.myflorida.com">joan.carter@dot.myflorida.com</a></td>
<td>386-943-5335</td>
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<td></td>
<td>Chris Dabson</td>
<td>FDOT</td>
<td><a href="mailto:chris.dabson@dot.myflorida.com">chris.dabson@dot.myflorida.com</a></td>
<td>386-943-5321</td>
</tr>
<tr>
<td>D.D.</td>
<td>David Dangel</td>
<td>Inwood</td>
<td><a href="mailto:ddangel@inwoodinc.com">ddangel@inwoodinc.com</a></td>
<td>407-971-8850</td>
</tr>
<tr>
<td>L.C.</td>
<td>Laura Clark</td>
<td>Inwood</td>
<td><a href="mailto:lclark@inwoodinc.com">lclark@inwoodinc.com</a></td>
<td>407-971-8850</td>
</tr>
<tr>
<td>V.V.</td>
<td>Vinod Vishwanatha</td>
<td>GMB</td>
<td><a href="mailto:vvviswanatha@gmb.cc">vvviswanatha@gmb.cc</a></td>
<td>407-898-5425</td>
</tr>
<tr>
<td>Phone</td>
<td>Susan Mckowski</td>
<td>Commissioner</td>
<td>Commissioner Nova’s Office</td>
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The table includes information about attendees at a FDOT Stakeholder Meeting, including their initials, names, affiliations, email addresses, and phone numbers.
STUDENT / PEDESTRIAN SAFETY COMMITTEE MEETING
(MEETING MINUTES)

Meeting Date: November 15, 2012

Time: 10:00 A.M.

Location: PUBLIC WORKS BUILDING
Traffic Engineering Conference Room – 3rd Floor
4200 South John Young Parkway, Orlando, Florida 32839

Attendees: Kevin Miller, Orange County School Safety Coordinator (Meeting Facilitator)
Bertis Negron, OCSO
Danielle Khoso, OPD
Tyrone Smith, OCPS
Jay Davoll, City of Apopka
Joan Carter, FDOT
Jeremy Crowe, City of Orlando
Mike Barnett, OCPS
Christine Loyfe, P.E., Engineer, OCFL

REVIEW & APPROVAL OF MINUTES:

Motion was made by Jay Davoll and seconded by Bertis Negron to approve the minutes.

ORANGE COUNTY TRAFFIC ENGINEERING:

Kevin Miller reports:

- Review and approval of minutes
- Waterford Lakes small area study discussion of items in report, Woodbury/Lake Underhill issues, Lexingdale Drive, Sherborne Ct, Golfway/Woodbury (guard parking)

"RIGHT FOOT, LEFT FOOT, REPEAT AS NEEDED!"
Pedestrian Safety Committee Meeting
Meeting Minutes
November 15, 2012
Page 2 of 4

ORANGE COUNTY TRAFFIC ENGINEERING: Continued:

- Audubon Park Elementary – Old Cheney / Beach add “End School Zone” signs.
- Shenandoah Elementary – Conway Road citizen request 20 mph flasher forward to FDOT
- Bridgewater Middle – produce walking route map for middle school students
- Oakridge High School conduct signal warrant study to install signal
- Castle Creek Elementary part of Waterford study conduct new vehicle/ped counts
- Rolling Hills Elementary request for 20 mph flasher for Londonderry Road. Denied sidewalk on both sides marked crossing with guard already installed
- Pedestrian Study – Clarcona Ocoee Road & Lancaster Road study
- Commissioner Brummer article in Apopka Chief on pedestrian safety

ORANGE COUNTY ENGINEERING DIVISION - DESIGN SECTION:

Cathy Evangelo not present to report.

CITY OF APOPKA:

Jay Davoll states that all is good in Apopka and He suggests to Sherry Pettis that she use the E-work order to have trees trimmed. Kevin Miller asks if that would work in Orange County.

FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT):

Joan Carter discussion of Volusia County pedestrian safety issues. Greg Aiken, Director of Transportation has created a spreadsheet with all pedestrian crashes in a matrix for discovery of common items on crashes. Over represented by middle school kids.

Discussion: Crash Information, Mapping, Spreadsheets.

ORANGE COUNTY PUBLIC SCHOOLS (OCPS):
Mike Barnett has nothing to report. Tyrone Smith discussion of Oakridge High School signal request information discussed on possible timeline and alignment issues. Tyrone asks about ongoing enforcement on Goldenrod Road / Nolton Road at the midblock crosswalk. Bertis says this is part of the ongoing sting operation.

**Pedestrian Safety Committee Meeting**
Meeting Minutes
November 15, 2012
Page 3 of 4

**ORANGE COUNTY SHERIFFS OFFICE (OCSO):**

*Bertis Negron* reports that there are 15 vacancies with no substitutes. She is presently conducting hiring and training actively trying to fill the vacancies. Bertis requests information on Hazardous Walking Conditions so this can be added to budget to full vacancies. Mike Barnett says there will be no changes this year except opening of Rock Springs Elementary.

Discussion of texting while driving. The Children’s Safety Village conducted a “Mock Texting Crash”.

**CITY OF ORLANDO:**

*Jeremy Crowe* reports study complete at All American / OBT signs are installed and 2 guards have been hired. John Young / LB McCloud don’t need a crossing due to zoning. No student should be crossing there. Radebough / Millennia conducted study on Vineland and on Millennia students are walking but aren’t sure if a crossing is warranted. Bertis used to have a crossing on both Vineland Road and Millennia Bv. Tyrone congratulated Jeremy on a good job at Hillcrest Elementary School.

Jeremy asks Tyrone Smith about Dowden Elementary placement of parent loop. Tyrone says this is already set as the pad has been poured. Jeremy says there could be problems as the parent loop with cross the path of the walkers.

**CITY OF ORLANDO POLICE DEPARTMENT (OPD):**
Danielle Khoso reports that there is 1 vacancy, but it is filled with a temporary guard.

CITY OF OCOEE POLICE DEPARTMENT (OCOEE PD):

Michelle Tillman not present.

Meeting Adjourned at 11:25 A.M.
Next Meeting Scheduled for: December 20, 2012 at 10:00 A.M.
Student / Pedestrian Safety Committee

November 15, 2012

Agenda

10:00  Orange County Traffic Engineering Division
   •  Review and approval of minutes
   •  Dr Phillips Elem – request school speed – denied (signalized)
   •  Bumby / Grant traffic signal request
   •  Union Park Middle – Econ/Torrington Utilities missing cover

10:20  Orange County Engineering Division – Design Section

10:30  City of Apopka

10:40  Florida Department of Transportation

10:50  Orange County School Board

11:00  Orange County Sheriff’s Office

11:10  City of Orlando

11:20  City of Ocoee

12:00  Meeting complete

Next Meeting – January 16, 2012

Left foot, Right foot, repeat as needed!
Waterford Lakes Small Area Study

Castle Creek Elementary SAC Meeting

Commission District 4
October 15, 2012

Presentation Outline

- Purpose of the Study
- Study Area
- Study Area Roadways, Intersections and Schools
- Study Elements
- Study Schedule
- Initial School Safety Review
**Purpose of the Study**

The purpose of the Waterford Lakes Small Area Study is to take a comprehensive, proactive look at the area and develop a prioritized list of safety and capacity improvements made up of low cost, short term improvements, mid-range improvements and higher-cost capital improvements.

**Study Area**

[Map of Waterford Lakes Small Area Study]
Study Area Roadways

- Alafaya Trail - SR 50 to Mark Twain Blvd.
- Avalon Park Blvd. - SR 50 to Waterford Chase Pkwy.
- Lake Underhill Rd. - Alafaya Trail to Waterford Chase Pkwy.
- Mark Twain Blvd. - Alafaya Trail to Lake Underhill Rd.
- Waterford Chase Pkwy. - Lake Underhill Rd. to Avalon Park Blvd.
- Waterford Lakes Pkwy. - Alafaya Trail to Woodbury Rd.
- Woodbury Rd. - SR 50 to Golfway Blvd.

Study Area Intersections

- Alafaya Trail @ SR 50
- Avalon Park Blvd. @ SR 50
- Avalon Park Blvd. @ Castle Creek Elem.
- Lake Underhill Rd. @ Alafaya Trail
- Lake Underhill Rd. @ Mark Twain Blvd.
- Lake Underhill Rd. @ Waterford Chase Pkwy.
- Waterford Chase Pkwy. @ Avalon Park Blvd.
- Waterford Lakes Pkwy. @ Alafaya Trail
- Waterford Lakes Pkwy. @ Woodbury Rd.
- Woodbury Rd. @ SR 50
- Woodbury Rd. @ Lake Underhill Rd.
- Woodbury Rd. @ Golfway Blvd.
Study Area Schools

- Waterford Lakes Elementary
- Castle Creek Elementary
- Camelot Elementary
- Sunrise Elementary
- Discovery Middle

Study Elements

- Traffic Counts
- School Safety Review
- Pedestrian and Bicycle Safety Review
- Crash Analysis
- Transit Evaluation
- Assess Existing Traffic Control and Infrastructure
- Intersection Capacity Analysis
Study Elements

- Roadway Corridor Analysis
- Speed Studies
- Traffic Signal Warrants
- Review Access Management
- Public Involvement

Project Schedule

Waterford Lakes Small Area Study

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<tr>
<th>2012</th>
<th>2013</th>
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- Data Collection
- Engineering Analysis
- Report Preparation
- Public Involvement

* KDA Newsletters  * KDA Meeting  * Community Meeting Flyers  * Community Meeting  * Orange County BCC Presentation

Waterford Lakes Small Area Study
**Safety Features Provided**

- Sidewalk and bike lanes both sides of Avalon Park Boulevard
- Advance “SCHOOL” pavement markings
- School crosswalk signing and crosswalk pavement markings
- Signalized intersection w/ pedestrian signal and countdown timer
- 2 School crossing guards

**Results of Initial Safety Review**

- Crosswalk timing is adequate
- Left turn storage of vehicles is sufficient
- Adequate gaps in traffic to make turns in/out of school
- Crossing guards don’t unnecessarily delay traffic
**Safety Measures**

1) Avalon Park Boulevard is scheduled to be resurfaced. Fresh pavement markings including crosswalks and bike lanes.

2) Missing 45 mph speed limit sign replaced.

3) New 45 mph speed limit sign to be installed.

4) Missing sidewalk connections to be constructed at Pellicer Drive and Perdido Drive.

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**Principal Daub’s Requests**

Comment: Sidewalk needed on SR 50 for students walking from Deerwood Park

Response: Sidewalks are being provided by FDOT as part of the SR 50 widening project.

Comment: School Zone is needed

Response: It is Orange County policy (and FDOT policy) not to install a reduced speed school zone where students cross at a signalized intersection with a crossing guard.
Any Questions?

CONTACT INFORMATION
Christy Lofye, P.E., Project Manager
Christine.Lofye@ocfl.net

Kevin Miller, School Safety Coordinator
Kevin.Miller@ocfl.net

Orange County Public Works Department
Traffic Engineering Division
4200 S. John Young Parkway
Orlando, FL 32839-9205

Waterford Lakes Small Area Study
Second HOA Representatives Meeting Scheduled

The second meeting with the Home Owner Association (HOA) representatives for neighborhoods within the study area has been scheduled. This meeting will be held on Wednesday, January 23, 2013 at the Waterford Elementary School cafeteria from 6:30 pm to 7:30 pm. This meeting is for HOA presidents and/or property managers only. Meetings for all residents will follow in February. A presentation on the results of the study will be given by Orange County beginning at 6:30 pm. The purpose of the meeting is to present a summary of the public comments received during the study, issues identified by the study team and recommendations for improvements within the study area.

What’s Next?

The Waterford Lakes Small Area Study began in May of 2012 and is scheduled to be complete in May of 2013. After the two community meetings, the study team will finalize the study recommendations, complete the report for the study and present the findings of the study to the Orange County Board of County Commissioners at project completion.
**Project Location**

The study area is generally south of E. Colonial Drive (SR 50), east of Alafaya Trail, north of Golfway Boulevard, and west of Avalon Park Boulevard. The study area includes the entire Waterford Lakes Master Community Association and the Eastwood Master Community Association.

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**Speed Limit Enforcement**

As a result of input received from the public during this study, speed trailers have been placed on several area roadways to help remind drivers of the posted speed limits. Over the next several weeks, Orange County Sheriff’s Office will be enforcing speed limits on these roadways.

- Alafaya Trl – SR 50 to Mark Twain Blvd – 45 mph
- Avalon Park Blvd – SR 50 to Waterford Chase Pkwy – 45 mph
- Lake Underhill Rd – Alafaya Trl to Waterford Chase Pkwy – 35 mph
- Mark Twain Blvd – Lake Underhill Rd to Alafaya Trl – 25 mph
- Waterford Chase Pkwy – Lake Underhill Rd to Avalon Park Blvd – 25 mph
- Waterford Lakes Pkwy – Alafaya Trl to Woodbury Rd – 30 mph
- Woodbury Rd – SR 50 to Lake Underhill Rd – 40 mph
- Woodbury Rd – Lake Underhill Rd to Golfway Blvd – 30 mph

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**Mark Your Calendar**

A second series of community meetings will be held to present the study results to the property owners within the study area. These meetings are scheduled for February 20th and 27th, 2013 at 6:30 pm at the Waterford Elementary School cafeteria.

Best Foot Forward, a community-wide pedestrian safety coalition formed to make streets safer for walkers and drivers, will speak at 7:15 pm immediately following the Orange County presentation. Stick around to learn tips to improve safety for your family and your community! You can also visit the Best Foot Forward website at iyield4peds.org.

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**Contact Us**

If you have questions regarding this project, please contact the Orange County Project Manager, Ms. Christy Lofye, at (407) 836-8682 or by e-mail at Christine.Lofye@ocfl.net. Written comments and questions can be mailed to:

**Waterford Lakes Small Area Study**

Attention: Christy Lofye, P.E.
Orange County Public Works
Traffic Engineering Division
4200 S. John Young Parkway
Orlando, Florida 32839-9205

Para hablar con alguien en español por favor contacte Mayda Leon al 407-836-7890.

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**Check Out Our Web Site**

[www.orangecountyfl.net](http://www.orangecountyfl.net)

Directions on how to navigate to the project web site.
Waterford Lakes
Small Area Study

HOA Representatives Meeting No. 2

Presentation Outline

- Purpose of the Study
- Study Area
- Summary of Public Input
- Summary of Field Reviews
- Planned Projects
- Intersection Improvements
- Safety Improvements
- Other Improvements
- Study Schedule
- What Can You Do?
**Purpose of the Study**

The purpose of the Waterford Lakes Small Area Study is to take a comprehensive, proactive look at the area and develop a prioritized list of safety and capacity improvements made up of low cost, short term improvements, mid-range improvements and higher-cost capital improvements.

**Study Area**

[Map of Waterford Lakes Small Area Study]
Summary of Public Input

- Received over 160 comments at the meetings
- Received over 25 e-mail and website comments
- All comments will be included in the final report with responses
- Many comments resulted in recommendations for improvements

Summary of Field Reviews

- Signs
- Pavement markings
- Sight distance restrictions
- Pavement condition
- Condition of sidewalks and gaps in sidewalks
- Traffic patterns
- Infrastructure (curbs, inlets, headwalls, guardrail)

Waterford Lakes Small Area Study
Planned Projects

- There are several projects that have recently been completed or are already planned independent of this study
  - Orange County Projects
  - Developer Funded Projects
  - FDOT Projects

Orange County Planned Projects

- Widening Alafaya Trail 2 to 4 lanes
  - Mark Twain Boulevard to Avalon Park Boulevard
  - Scheduled Completion May 2014
- Sidewalk repairs on Lake Underhill Road
  - Alafaya Trail to Waterford Chase Parkway
  - Completed in 2012
Orange County Planned Projects

- Reconstruction of sections of Lake Underhill Road
  - Alafaya Trail to Waterford Chase Pkwy.
  - Construction began in Dec. 2012
  - Repaving Avalon Park Boulevard
    - Timber Creek High School to SR 50
    - Scheduled for 2013/2014

Orange County Planned Projects

- Repaving Waterford Lakes Parkway
  - Alafaya Trail to Woodbury Road
  - Scheduled for 2013
  - Woodbury Road Roadway Conceptual Analysis (RCA) Transportation Study
    - SR 50 to Lake Underhill Road
    - Study scheduled to begin in 2013
    - Design and Construction not funded
Orange County Planned Projects

• Traffic Signal on Alafaya Trail at Ashton Manor Way

Developer Planned Projects
**Developer Planned Projects**

- Median Opening Modification on Alafaya Trail at Iroquois Trail
  
  ![Alafaya Trail at Iroquois Trail Map](image)

- Waterford Lakes Small Area Study

**FDOT Planned Projects**

- SR 50 from Dean Rd. to Old Cheney Highway
  - Widening from 4 to 6-lanes
  - Construction to begin in 2013
  - 3-year construction project

![SR 50 from Dean Rd. to Old Cheney Highway Map](image)
**Recommendations**

- Several recommendations are being made as a result of this study
  - Intersection improvements
  - Safety improvements
  - Sidewalk improvements
  - Requests for Speed Limit Enforcement
  - Infrastructure repairs

**Intersection Improvements**

- Woodbury Road @ Lake Underhill Road
  - Add a Second Left Turn Lane in the Northbound and Southbound Directions
Intersection Improvements

- Waterford Lakes Parkway @ Lake Cypress Circle
  - Construct Westbound Left Turn Lane
  - Convert Full Median Opening to Directional Median Opening

- SR 50 @ Woodbury Road
  - Construct Second Eastbound Left Turn Lane
  - Construct Second Westbound Left Turn Lane
**Intersection Improvements**

- Southbound right turn lane on Woodbury Rd. at Waterford Lakes Pkwy.

**Construct Southbound Right Turn Lane**

Waterford Lakes Parkway

- Alafaya Trail @ Waterford Lakes Pkwy.

**Open Right Turn Lane at Old Post Office Down to Waterford Lakes Parkway**

Alafaya Trail
Intersection Improvements

- Alafaya Trail @ Lake Underhill Road

Open Right Turn Lane at Walgreens
Down to Lake Underhill Road

- Woodbury Road @ Golfway Boulevard
**Safety Improvements**

- **Lake Underhill Rd. @ Waterford Chase Parkway**
  - Install OM1-1 Object Markers
  - Install Right Turn Arrow And ONLY Pavement Markings

- **Waterford Chase Parkway @ the sharp curve**
  - Existing Sign with Solar Powered Warning Light
  - Install OM2-1V Type 2 Object Markers in Front of Existing Light Poles
**Safety Improvements**

- Avalon Park Boulevard @ Old Cheney Highway

  - Install lane call sign and Only pavement markings

**Safety Improvements**

- Avalon Park Boulevard @ Waterford Chase Parkway
  - Revise signal timing to include a Leading Pedestrian Interval
  - A “head start” for pedestrians to cross the intersection
  - This would be a Pilot location to test the effectiveness and safety benefits
Safety Improvements

- Pedestrian Crossing on Mark Twain Boulevard & Waterford Chase Parkway at Recreation Centers

Safety Improvements

- Trim vegetation to help improve sight distance
Safety Improvements

- Add Backplates to Signal Heads to increase visibility of signal indications

Waterford Lakes Small Area Study

Safety Improvements

- Adding speed limit signs
  - Waterford Lakes Parkway
  - Woodbury Road
  - Avalon Park Boulevard
  - Alafaya Trail
- “Share the Road” signs
  - Lake Underhill Road
  - Avalon Park Boulevard

Waterford Lakes Small Area Study
**Enforcement Issues**

- Speed trailers and message boards
- Enforcement by Orange County Sheriff’s Office
- No Parking
- Aggressive driving
- Improper turns

**Sidewalk Improvements**

- New sidewalks connections
  - Perdido Dr. @ Avalon Park Blvd.
  - Pellicer Dr. @ Avalon Park Blvd.
  - Cave Hollow Dr. @ River Delta Dr.
  - Alafaya Tr. (West side) from Lake Underhill Rd. to SR 408
Sidewalk Improvements

- New curb cut ramp and crosswalk to serve Camelot Elementary School

Traffic Signal Warrant Study

- Mark Twain Boulevard @ Alafaya Trail intersection
  - Not warranted at this time
  - Will re-study after Alafaya construction complete

Waterford Lakes Small Area Study
Infrastructure Repairs

- Repair broken sidewalk
  - Alafaya Trail
  - Woodbury Road
  - Avalon Park Boulevard
  - Waterford Lakes Parkway

Infrastructure Repairs

- Repair pedestrian push buttons & replace pedestrian push button signs
  - Alafaya Trail, Lake Underhill Road
**Infrastructure Repairs**

- Repair/replace damaged signs
  - Poor reflectivity
  - Vandalized signs/stickers
  - Sign supports

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**Infrastructure Repairs**

- Extend fence
  - Woodbury Road adjacent to canal

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*Waterford Lakes Small Area Study*
**Infrastructure Repairs**

- Refresh pavement markings/install new pavement markings
  - Alafaya Trail
  - Woodbury Road
  - Avalon Park Boulevard

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**Project Schedule**

![Project Schedule Diagram]

- Data Collection
- Engineering Analysis
- Report Preparation
- Public Involvement

Today

Waterford Lakes Small Area Study
What Can You Do?

- Re-Think Your Commute
  - Carpool/ Vanpool
  - Park & Ride
  - Telecommute/ Flex Time
  - Adjust Work Hours
  - Combine trips
  - Bike
  - Walk

Contact Information

Christy Lofye, P.E.
Orange County Public Works Department
Traffic Engineering Division
4200 S. John Young Parkway
Orlando, FL 32839-9205

Phone: 407-836-8682
E-mail: christine.lofye@ocfl.net
Waterford Lakes
Small Area Study

Community Meeting No. 2

Commission District 4
February 20th and 27th, 2013

Orange County Mayor
Teresa Jacobs
District 4 Commissioner
Jennifer Thompson

Presentation Outline

- Purpose of the Study
- Study Area
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Orange County Planned Projects

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  - Design and Construction not funded
Orange County Planned Projects

Traffic Signal on Alafaya Trail at Ashton Manor Way

Developer Planned Projects

- Traffic Signal on Alafaya Trail at Ashton Manor Way

Under Construction
**Developer Planned Projects**

- Median Opening Modification on Alafaya Trail at Iroquois Trail
  
  ![Diagram of Median Opening Modification](image1)

**Under Construction**

**FDOT Planned Projects**

- SR 50 from Dean Rd. to Old Cheney Highway
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![Diagram of SR 50 Widening](image2)
**Recommendations**

- Several recommendations are being made as a result of this study
  - Intersection improvements
  - Safety improvements
  - Sidewalk improvements
  - Requests for Speed Limit Enforcement
  - Infrastructure repairs

**Intersection Improvements**

- **Woodbury Road @ Lake Underhill Road**

  - Add a Second Left Turn Lane in the Northbound and Southbound Directions
**Intersection Improvements**

- **Waterford Lakes Parkway @ Lake Cypress Circle**
  - Construct Westbound Left Turn Lane
  - Convert Full Median Opening to Directional Median Opening

- **SR 50 @ Woodbury Road**
  - Construct Second Eastbound Left Turn Lane
  - Construct Second Westbound Left Turn Lane
Intersection Improvements

- Southbound right turn lane on Woodbury Rd. at Waterford Lakes Pkwy.

- Alafaya Trail @ Waterford Lakes Pkwy.
Intersection Improvements

- Alafaya Trail @ Lake Underhill Road
  
  Open Right Turn Lane at Walgreens Down to Lake Underhill Road

- Woodbury Rd. @ Golfway Blvd.
  
  Channelized Median Opening
**Orange County Planned Projects**

- Installation of CCTV for Traffic Management Center to monitor signalized intersections
  - Avalon Park Boulevard at Waterford Chase Parkway - installed
  - Lake Underhill Road at Woodbury Road
  - Alafaya Trail at Lake Underhill Road
  - Alafaya Trail at Curry Ford Road/ River Delta Drive

**Safety Improvements**

- Lake Underhill Rd. @ Blue Water Circle

Extend Raised Median to Blue Water Circle
**Safety Improvements**

- **Lake Underhill Rd. @ Waterford Chase Parkway**
  
  - Install OM1-1 Object Markers
  
  - Install Right Turn Arrow And ONLY Pavement Markings

- **Waterford Chase Parkway @ the sharp curve**
  
  - Existing Sign with Solar Powered Warning Light
  
  - Install OM2-1V Type 2 Object Markers in Front of Existing Light Poles
Safety Improvements

- Avalon Park Boulevard @ Old Cheney Highway

- Install lane call sign and Only pavement markings

Safety Improvements

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  - Revise signal timing to include a Leading Pedestrian Interval
  - A “head start” for pedestrians to cross the intersection
  - This would be a Pilot location to test the effectiveness and safety benefits
Safety Improvements

- Pedestrian Crossing on Mark Twain Boulevard at the park

Safety Improvements

- Trim vegetation to help improve sight distance
**Safety Improvements**

- Add signs on River Delta at White River Drive to warn of hidden driveway

-Waterford Lakes Small Area Study

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**Safety Improvements**

- Add Backplates to Signal Heads to increase visibility of signal indications

-Waterford Lakes Small Area Study
Safety Improvements

- Adding speed limit signs
  - Waterford Lakes Parkway
  - Woodbury Road
  - Avalon Park Boulevard
  - Alafaya Trail
- “Share the Road” signs
  - Lake Underhill Road
  - Avalon Park Boulevard
- Turning Vehicles Yield to Pedestrians
  - At intersections

Enforcement Issues

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- Enforcement by Orange County Sheriff's Office
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Sidewalk Improvements

- New sidewalks connections
  - Perdido Dr. @ Avalon Park Blvd.
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  - Cave Hollow Dr. @ River Delta Dr.
  - Alafaya Tr. (West side) from Lake Underhill Rd. to SR 408

Sidewalk Improvements

- New curb cut ramp and crosswalk to serve Camelot Elementary School
**Bicycle Facility Improvements**

- Lake Underhill Road striping
  - Old - Two, 12-foot wide lanes
  - New - 11-foot wide inside lane and 13-foot wide outside lane
- Avalon Park Boulevard striping
  - Old - Two, 12-foot wide lanes and a 4-foot bike lane separated by a 6-inch white stripe
  - New - Two, 11-foot wide lanes and a 6-foot bike lane separated by an 8-inch white stripe

**Traffic Signal Warrant Study**

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Infrastructure Repairs

- Repair/ replace damaged signs
  - Poor reflectivity
  - Vandalized signs/ stickers
  - Sign supports

Infrastructure Repairs

- Extend fence
  - Woodbury Road adjacent to canal

Before

After

Gap in fence

Waterford Lakes Small Area Study
**Infrastructure Repairs**

- Refresh pavement markings/ install new pavement markings
  - Alafaya Trail
  - Woodbury Road
  - Avalon Park Boulevard

**Project Information**

- Project documents that have been completed are on the project web site
  - Traffic Report
  - Traffic Signal Warrant Analysis Study for Mark Twain @ Alafaya Trail

- [www.orangecountyfl.net](http://www.orangecountyfl.net)
**Project Schedule**

Waterford Lakes Small Area Study

**What Can You Do?**

- Re-Think Your Commute
  - Carpool/ Vanpool
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  - Adjust Work Hours
  - Combine trips
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  - Walk
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