

Round Lake Elementary School Mount Dora, FL

DRAFT

June 2013





A SAFE SCHOOLS TRANSPORTATION STUDY

Round Lake Elementary School

Round Lake Elementary School Snapshot

May 2, 2013

Grades: Pre-K – 5th

Total Students: 895

- Provided Bus Transportation : 403
- Not Provided Bus Transportation: 492
- Buses Assigned to School (8 reg, 2 ESE) 10

Students Living within the “Walk Zone”: 151

- Provided Bus Transportation: 64
- Not Provided Bus Transportation: 87

Observation Day (Rainy)

- Walkers: 0
- Bike Riders: 0



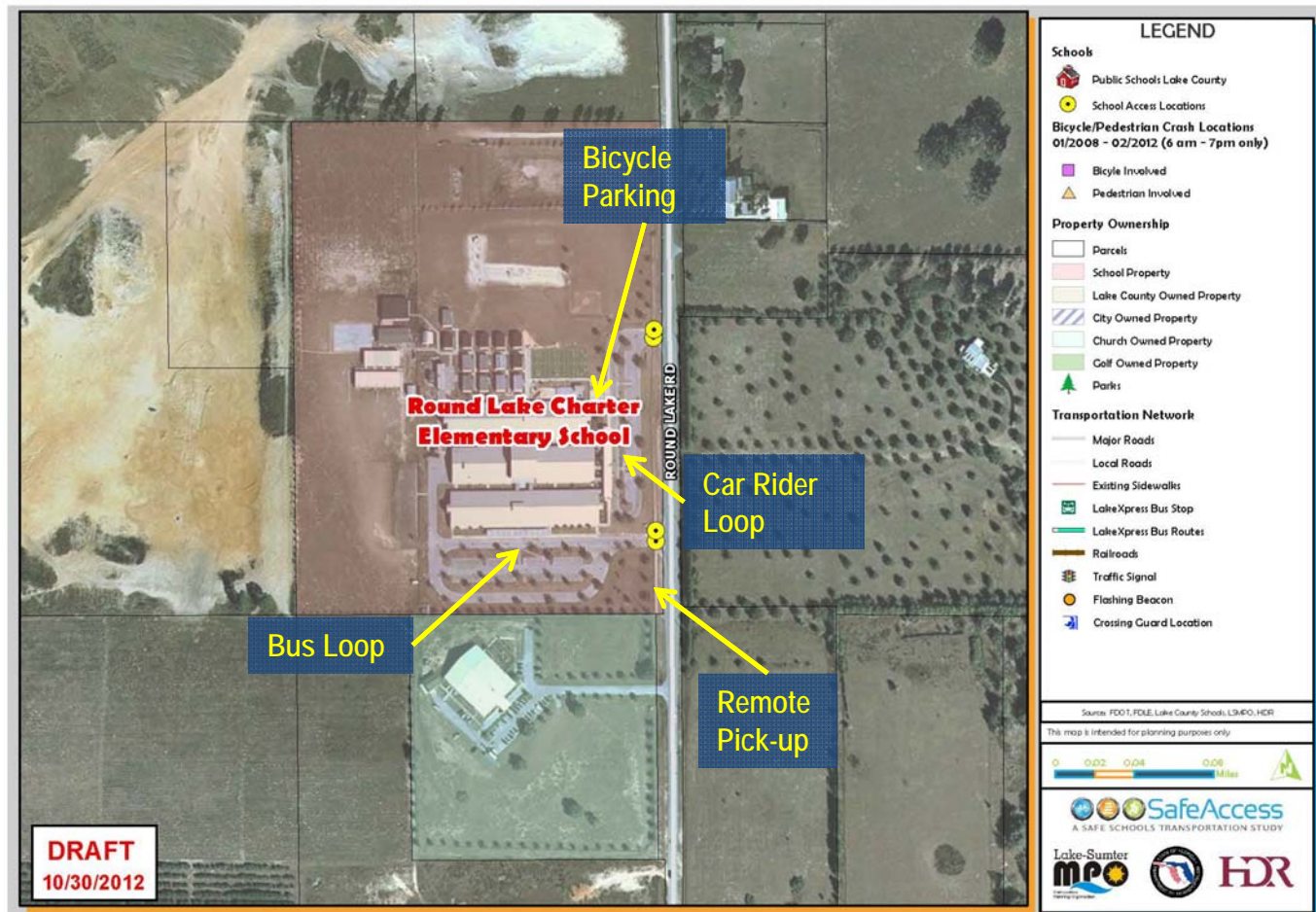
- ✓ Round Lake Elementary School website – Click [here](#)
- ✓ City of Mt. Dora website – Click [here](#)
- ✓ Lake County Schools website – Click [here](#)

Round Lake Elementary School

Findings:

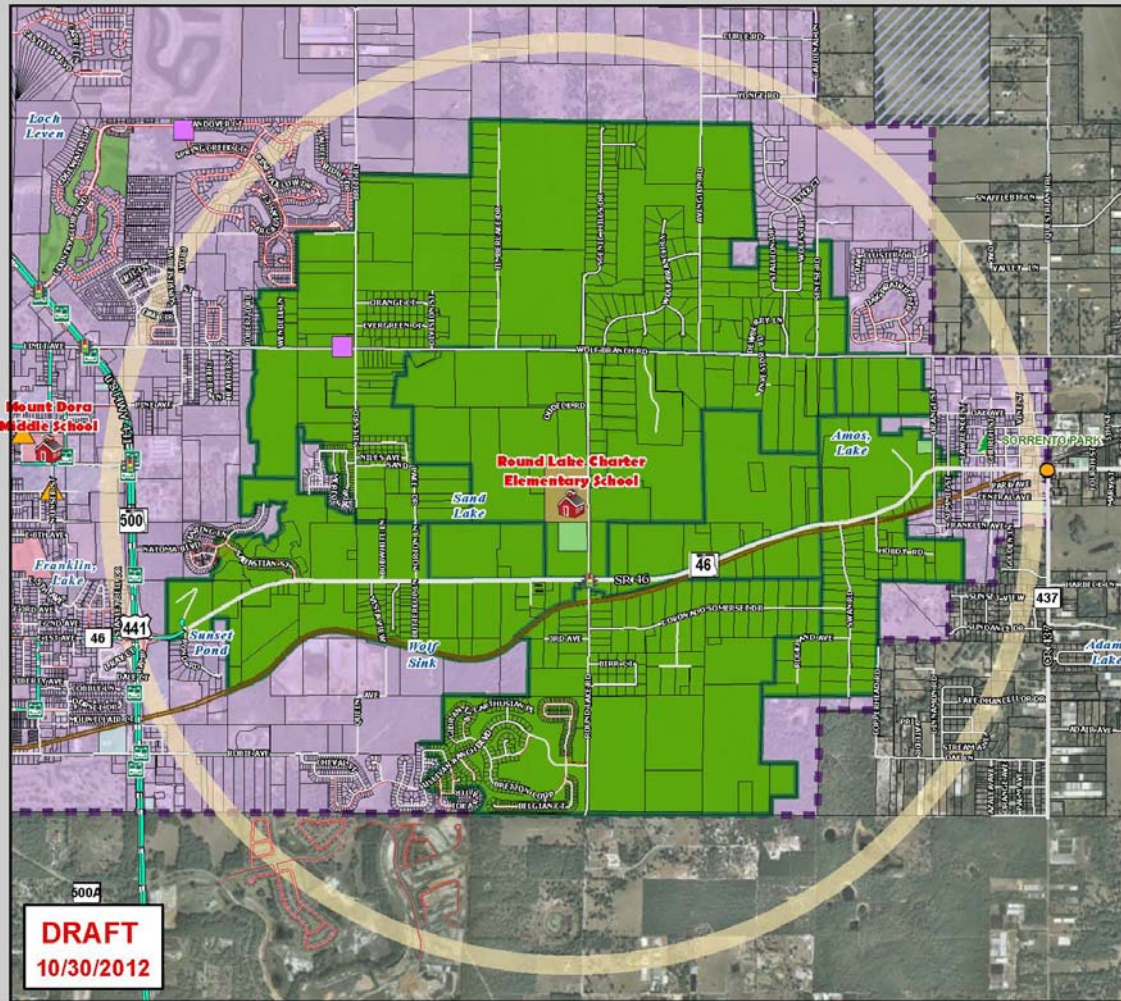
- ✓ Bus loop separated from drop-off/pick-up
- ✓ Remote drop-off/pick-up allowed between bus loop and church
- ✓ 4 daycare buses/vans use car loop; 2 use bus loop
- ✓ Campus gates open at 8:00 AM
- ✓ 10-12 staff members monitor arrival / dismissal

Round Lake Charter Elementary School: Student Access Location Map



Attendance and 2-Mile "Walk" Zone Map

Round Lake Charter Elementary School: Attendance and 2-Mile "Walk" Zone Map



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LEGEND

Schools

- Public Schools Lake County
- 2-Mile Buffer of Round Lake Charter ES
- Parent Responsibility Zone
- Special Exception Areas
- Round Lake Charter ES Attendance Zones (2010-2011)

Bicycle/Pedestrian Crash Locations 01/2008 - 02/2012 (6 am - 7pm only)

- Bicycle Involved
- Pedestrian Involved

Property Ownership

- Parcels
- Parks

Transportation Network

- Major Roads
- Local Roads
- Existing Sidewalks
- LakeXpress Bus Stop
- LakeXpress Bus Routes
- Railroads
- Traffic Signal
- Flashing Beacon

Source: FDOT, FCLE, Lake County Schools, LMDO, HDR

This map is intended for planning purposes only.

0 0.2 0.4 0.8 Miles

SafeAccess
A SAFE SCHOOLS TRANSPORTATION STUDY

Lake-Sumter
MPO

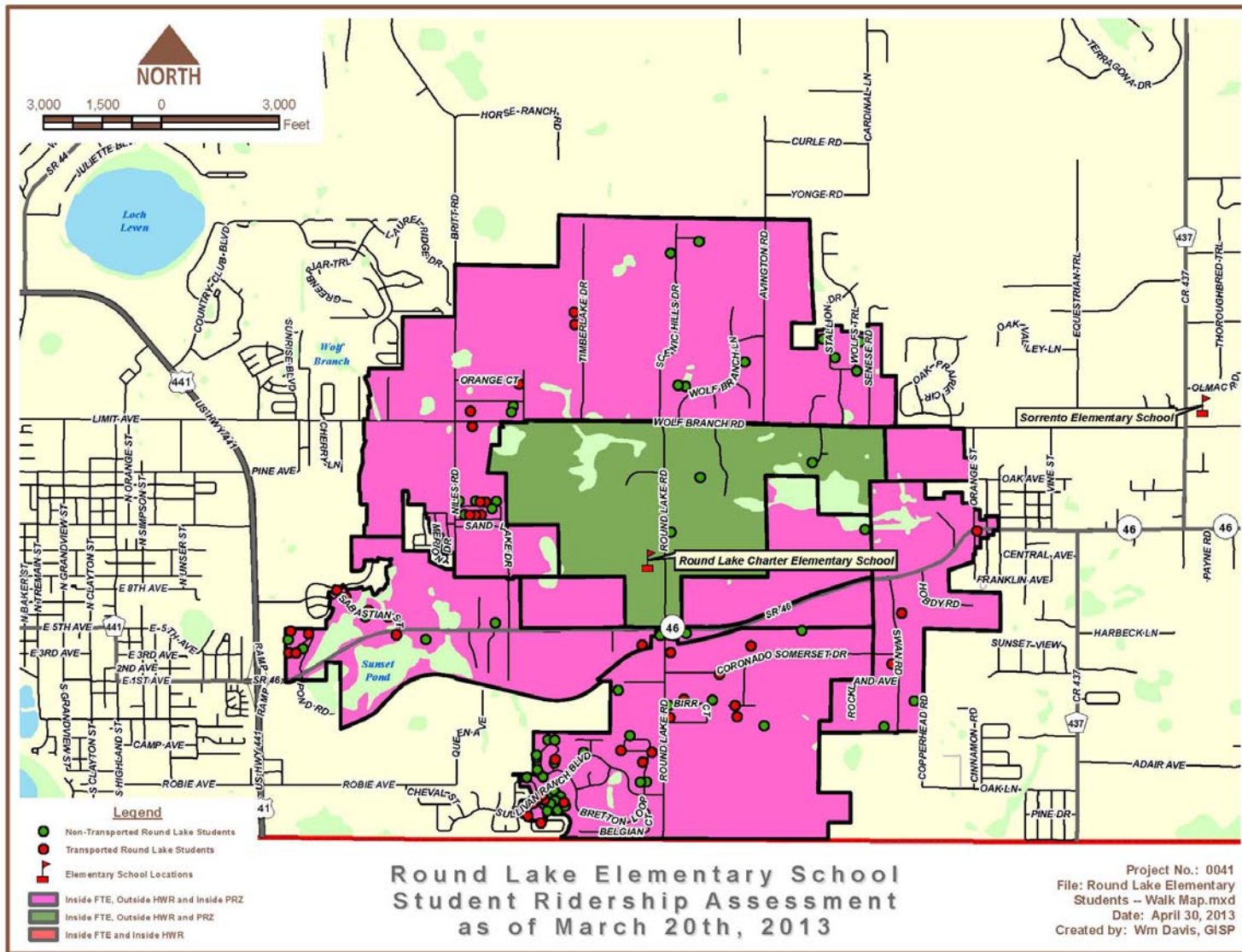
HDR



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Round Lake Elementary School

Attendance and 2-Mile "Walk" Zone Map



Arrival and Dismissal Schedule

- 7:00 am: ELC starts
- 7:15 am: Music program starts
- 8:00 am: Gates are opened;
Supervision for student arrival starts
- 8:35 am: School start time
- 11:00 am: Morning pre-K pick-up
- 11:45 am: Afternoon pre-K drop-off
- 2:55 pm: School end time; Bus riders released as buses arrive



Note: Students are released one hour early on Wednesdays



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Round Lake Elementary School

Bus Access



Afternoon Bus Staging

Findings:

- ✓ 8 regular service buses and 1 ESE buses (9 total)
- ✓ Bus riders are released as buses arrive; Maximum of 3 buses loading at any time (observed and confirmed by staff)
- ✓ Issue with parents using bus loop for student pick-up
- ✓ Bus operations were observed to be well-run and efficient



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Round Lake Elementary School

Student Drop-off & Pick-up

Findings:

- ✓ Significant queuing observed and reported for both directions on Round Lake Rd; School reported back up has reached Wolf Branch Rd
 - ✓ School staff noted 46 rear end collisions associated with queuing issue
 - ✓ School no longer marks students tardy as long as there are still cars in the queue
 - ✓ Queue extends beyond turn lane to north, existing hill may create site distance problems
- ✓ Police officer directs car loop exit / entrance for both drop-off and pick-up
- ✓ 7 – 8 staff members assist with car loop operations
- ✓ Student names are displayed in car windows to assist with dismissal car loading efficiency
- ✓ No car loops gates
- ✓ No sidewalk provided for visitor parking



Afternoon Pick-up



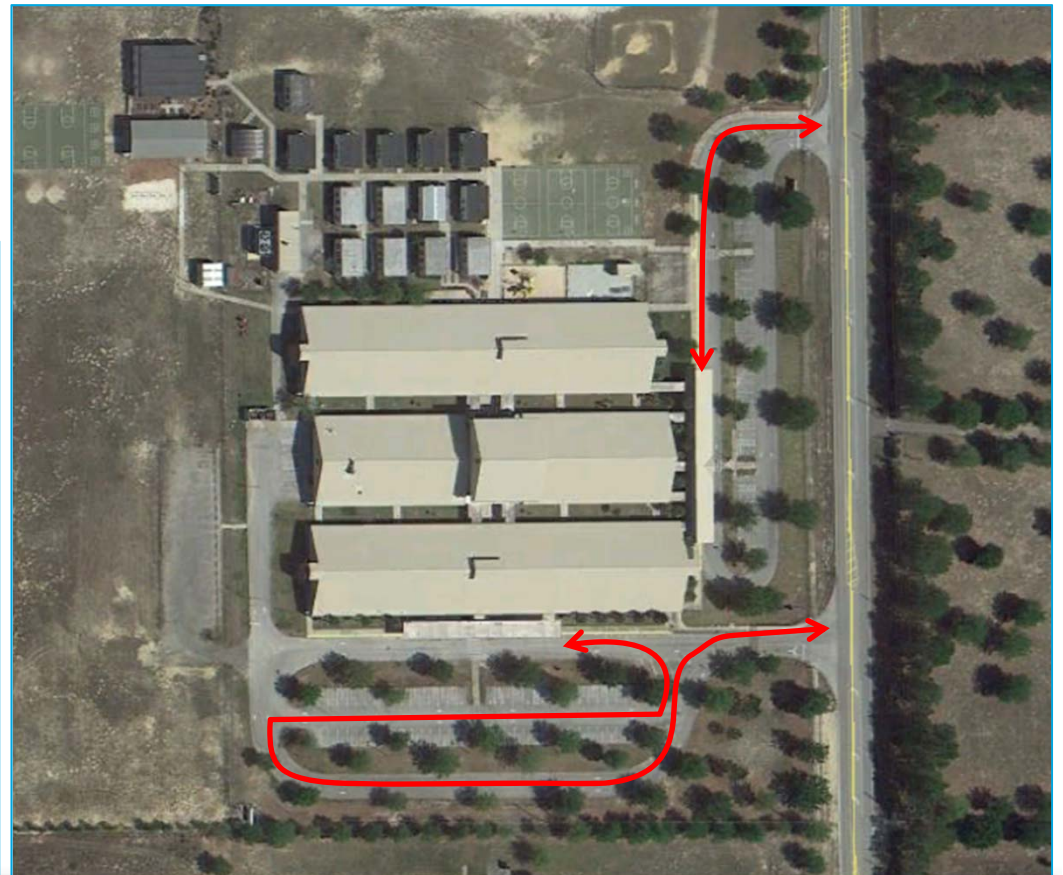
Queuing on shoulder



Police Directing Car Loop Exit

Recommendations:

- ✓ Investigate switching bus loop and car loop to extend car queuing area, or add additional driveway loop
- ✓ Install gates to assist with loading / unloading
- ✓ Install new visitor parking sidewalk





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Round Lake Elementary School

Remote Drop-off & Pick-up

Findings:

- ✓ School allows remote drop-off/pick-up between bus loop and church on shoulder; Sidewalk provided on school property
 - ✓ 23 vehicles observed at peak; vehicles were starting to use church driveway
- ✓ Issue with parents using bus loop for pick-up; Parents will park and walk to front

Recommendations:

- ✓ Install sidewalk along west side of Round Lake Rd from Wolf Branch Rd to County Line; Portion in front of school and remote pick-up area should be constructed with 8' width



Permitted Remote Pick-up near Bus Exit



Remote Pick-up Observed in Bus Loop



Remote Pick-up Sidewalk



Bike Rack

Findings:

- ✓ Currently no students walk or ride a bike to the school
 - ✓ School does have designated bicycle parking on-site
 - ✓ Most of the area around school lacks sidewalks
- ✓ Sidewalk extends length of school property
- ✓ Proposed alignment for Round Lake Rd Trail on Round Lake Rd and Lake-Wekiva Trail (Ph1) south of school along SR 46

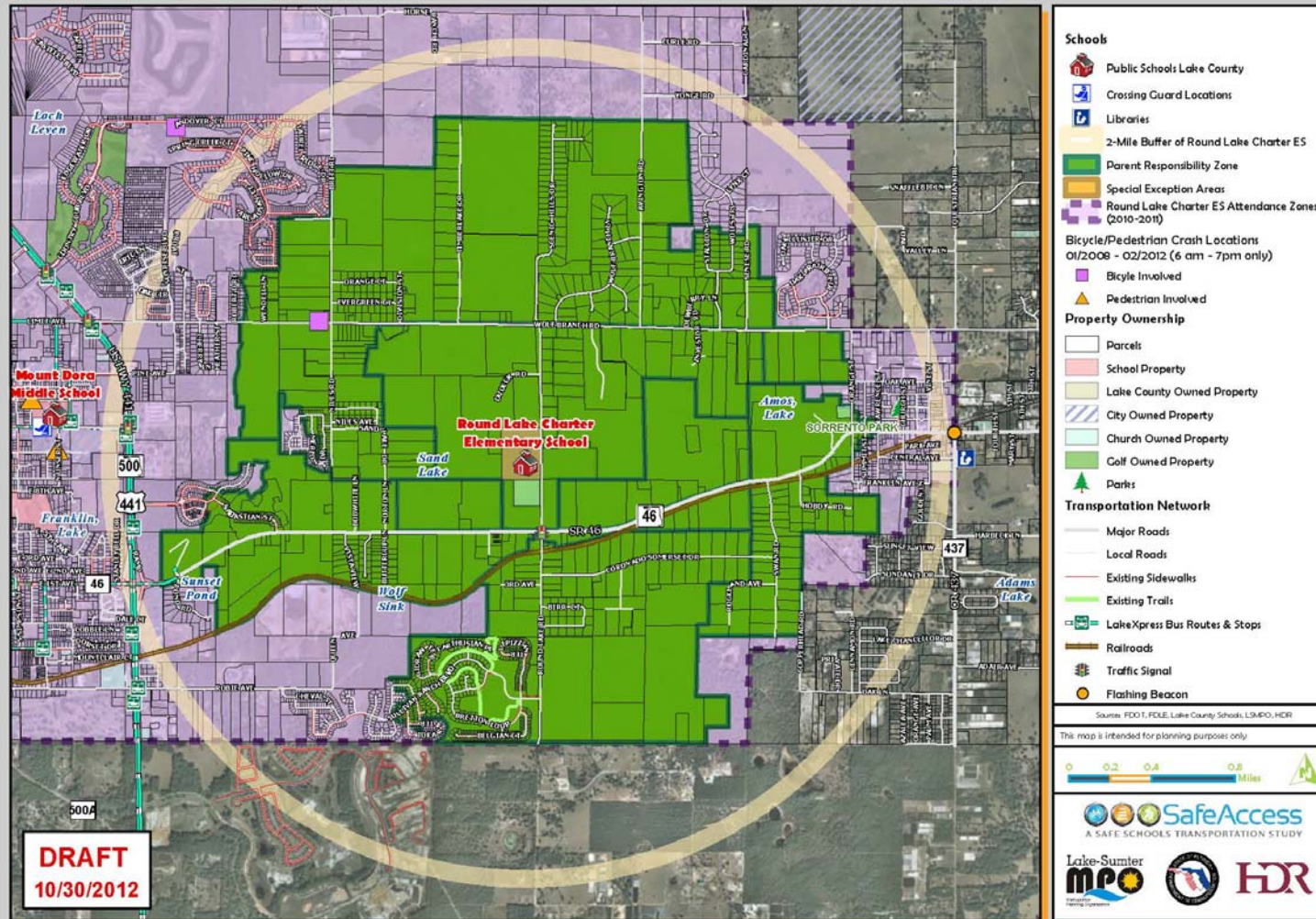


School Sidewalk n/o Car Loop

Recommendations:

- ✓ Provide area sidewalk connections with pedestrian connections to planned trail
 - ✓ SR 46 from US 441 to Orange Street
 - ✓ Orange Street from SR 46 to Wolf Branch Road
 - ✓ Round Lake Road from County Line to Wolf Branch Road; Crossing guard placement at Round Lake Road and SR 46
 - ✓ Wolf Branch Rd from Orange St to Washington Blvd
- ✓ Round Lake Road portion of trail project should be placed on school side
- ✓ Place new crossing guard at Round Lake Rd / SR 46 intersection

Round Lake Charter Elementary School: Existing Conditions Map



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Round Lake Elementary School

Recommended Project List

Project Number	Roadway	Location	Project
1	At School		Add additional vehicle queue space by a) switching bus loop and car loop or b) adding a loop driveway on the northwest part of the school property
2	At School	Car Loop	Install gates
3	At School	Visitor Parking	Install new sidewalk
4	Round Lake Rd	Wolf Branch Rd to County Line	Install new sidewalk on west side
5	SR 46	US 441 to Orange St	Install new sidewalk on both sides of road
6	Wolf Branch Rd	Orange St to Washington Blvd	Install new sidewalk on both or north side of road
7	Orange St	SR 46 to Wolf Branch Rd	Install new sidewalk on west side of road

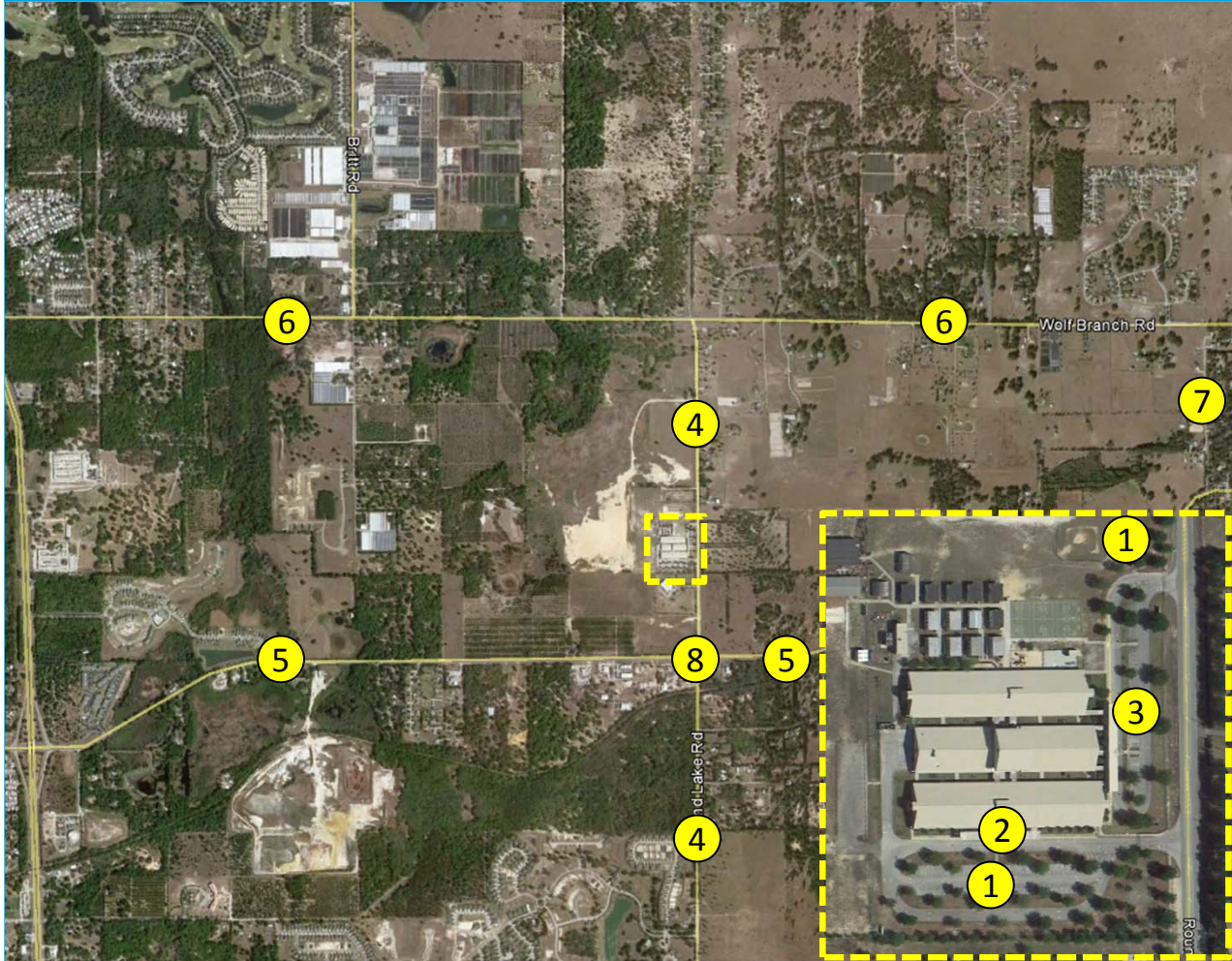


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Round Lake Elementary School

Recommended Priority Projects



Recommendations:

1. Add car queue space
2. Install car loop gates
3. Install visitor parking sidewalk
4. Install sidewalk on Round Lake Rd from Wolf Branch Rd to County Line
5. Install sidewalk on SR 46 from US 441 to Orange St
6. Install sidewalk on Wolf Branch Rd from Orange St to Washington Blvd
7. Install sidewalk on Orange St from SR 46 to Wolf Branch Rd
8. New crossing guard at Round Lake Rd / SR 46 intersection

Recommendation:

- ✓ Investigate switching bus loop and car loop
 - Used Microstation Autoturn 8.0 to analyze bus ability to make necessary turns at existing car loop; Used turning radius of a 2011 AASHTO S-Bus-36
 - Buses can only make turn if stacked in single queue; Also required to depart in order
- ✓ Have a bus driver test difficulty of turn over summer, indicate turn must be made from far right lane



Recommended Project #1

a) Swap Bus Loop and Car Loop

Cont:

- ✓ Length of existing car loop is 350 feet on campus, right turn lane storage is 460 feet, and left turn lane storage is 350 feet for a total of 1,160 feet of storage, new loop would be about 1,900 feet, with all the turn lanes reconstructed
- ✓ If swapped, a right turn lane would have to be added along the schools frontage with potential drainage improvements, or the roadway would have to be milled and resurfaced to shift the lanes and use the space from the existing left turn lane in front to the school as the right turn lane, the area of the left turn into the current bus lane would need to be redesigned to allow for the appropriate space to shift the lanes and would likely require a corner clip at the new car loop entrance
- ✓ The new loop would require driver side loading and unloading and would require a stop / yield condition to oncoming traffic at the queue entrance /exit

- ✓ Cars in the right turn lane north of the school may block the bus entrance
- ✓ Officer assistance would still likely be necessary



Recommended Project #1

b) Add additional driveway

Recommendation

- ✓ Add an additional 16 foot wide one way car loop.
- ✓ Length of existing car loop is 1,160 feet with turn lanes, additional loop is approximately 2,500 feet
- ✓ There are no turn lanes at this entrance, shifting the pavement markings for the existing right turn may allow for the continuation of the existing left turn but additional space may be needed at new driveway.
- ✓ Additional right of way to the north may be needed for a small right turn lane
- ✓ Current entrance would need to be coned or have a gate during arrival and dismissal
- ✓ New fencing would be needed along loop and a gate might be needed at the new driveway and connection to existing loop



New car drive location

Recommended Project #2

Install Car Loop Gates

Recommendation:

- ✓ Install car loop gates once car loop location has been determined



Recommended Project #3

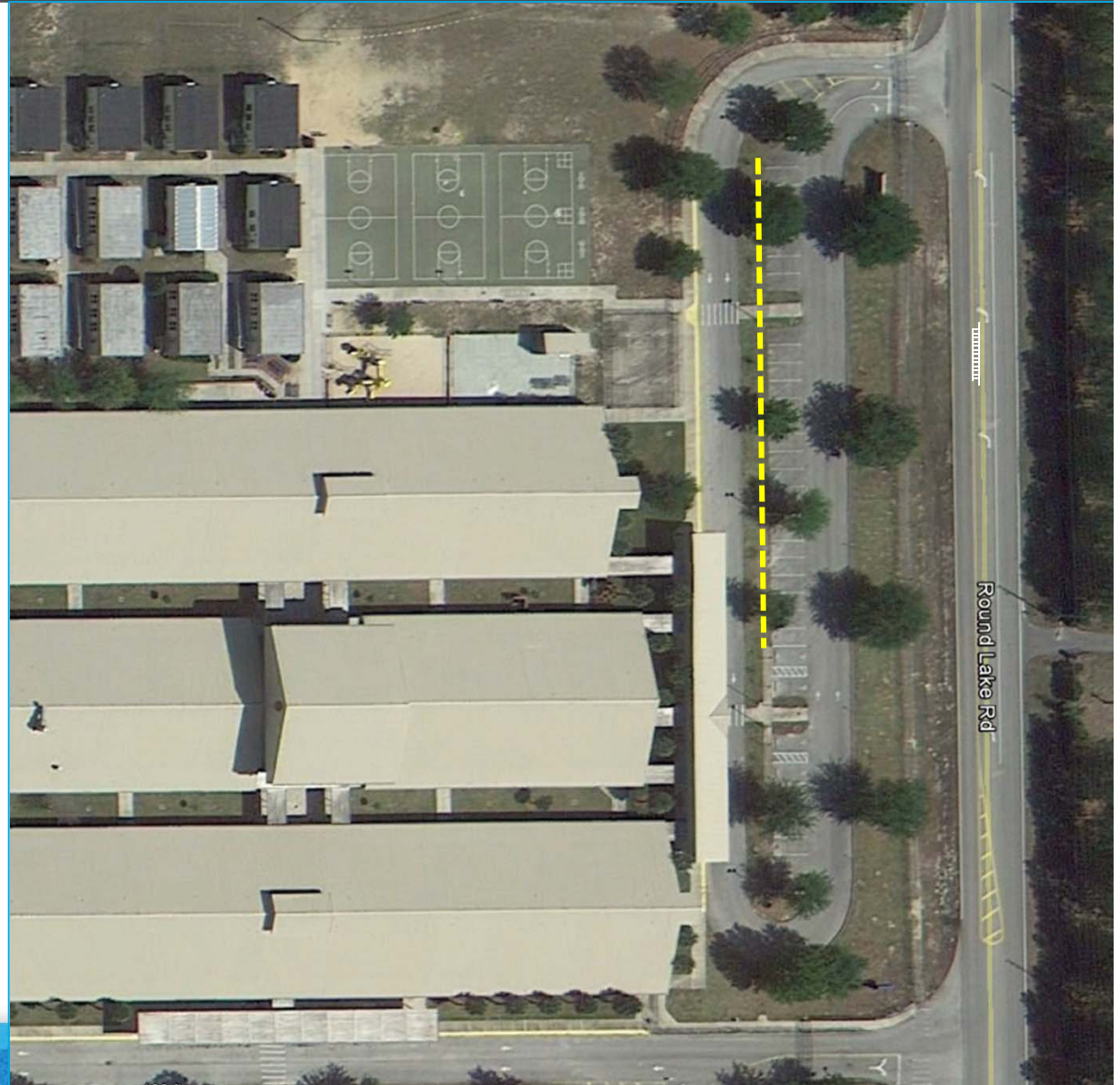
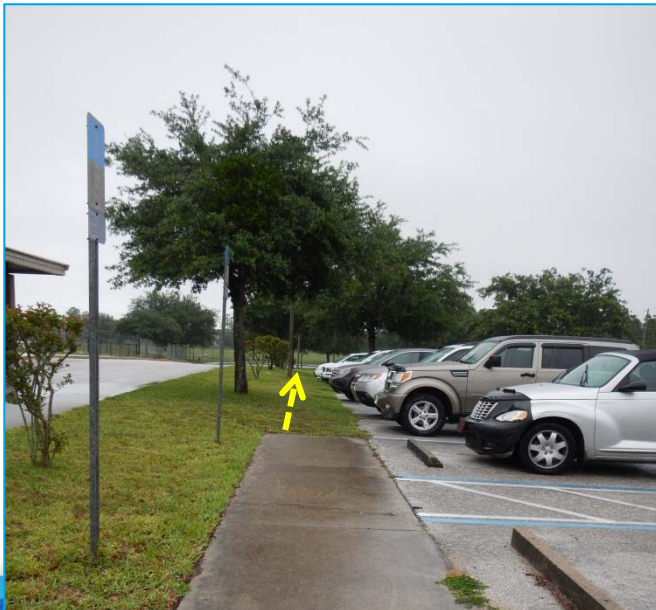
Install Visitor Parking Sidewalk

Findings:

- ✓ Sidewalk is missing for most of the visitor parking forcing visitors and / or staff to walk in the driving lanes

Recommendation:

- ✓ Install / extend visitor parking sidewalk along entire length of grassy area



Recommended Project #4

Construct Sidewalk on Round Lake Road

Finding:

- ✓ There is no sidewalk in the vicinity of the school except at the school
- ✓ The nearest concentration of students is in the Sullivan Ranch Development, south of the school on Round Lake Rd
- ✓ The Wekiva Project section 3a will include widening SR 46 to six (6) lanes and includes intersection improvements at Round Lake Rd

Recommendation:

- ✓ Coordinate with FDOT and the Lake~Sumter MPO to have sidewalk on the west side of Round Lake Road from SR 46 to the school included with the Wekiva Project
- ✓ Install new sidewalk on the west side of Round Lake Rd from Wolf Branch Rd to County line;
 - It is recommended the sidewalk be 8' wide (preferred if space allows) or 6' to allow bi-directional pedestrian traffic in front of school; Existing sidewalk should be reconstructed to match new width and Both sidewalks should be constructed 6" thick to avoid damage in the event a vehicle drive onto/over sidewalk
- ✓ A crossing guard will be needed to safely cross students at SR 46 once it is 6 lanes, and there is a sidewalk connection

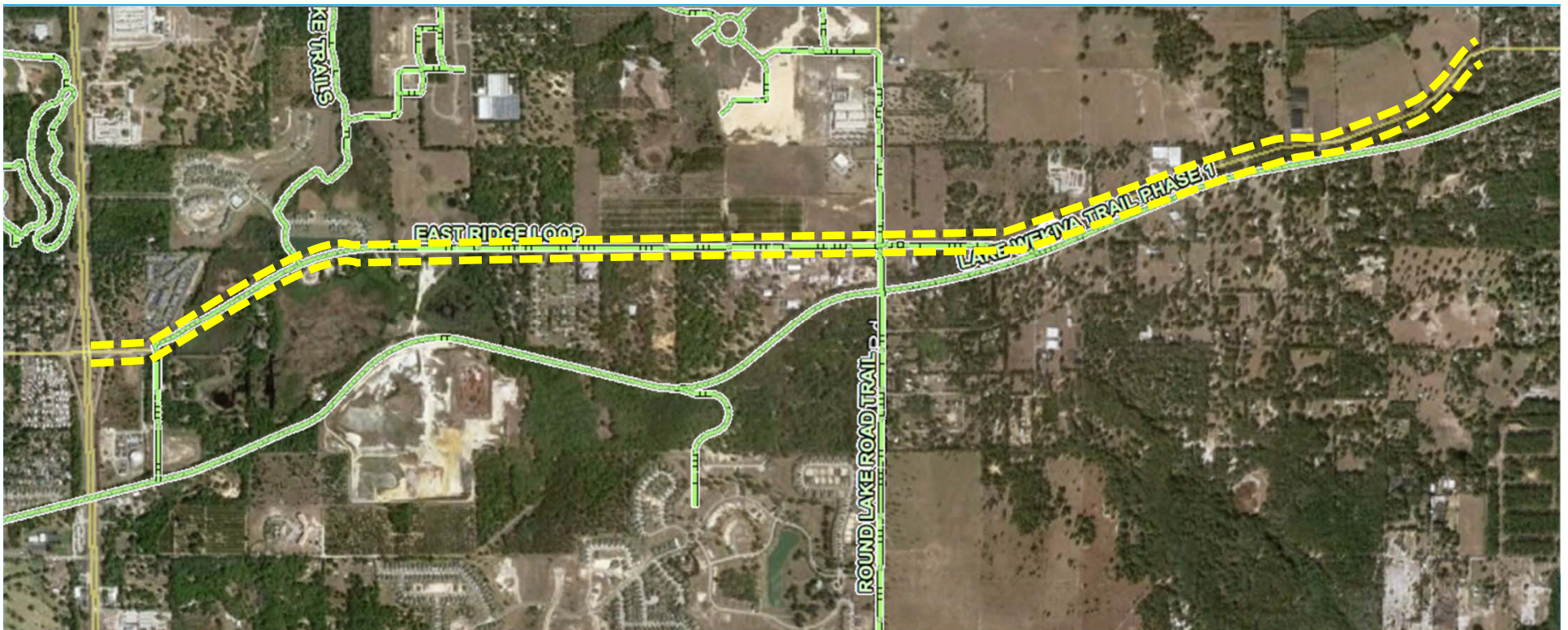


Findings:

- ✓ SR 46 is planned for 6-lane widening as part of Wekiva Parkway project
- ✓ Lake-Wekiva Trail Phase 1 and East Ridge Loop Trail alignments have been identified along SR 46

Recommendation:

- ✓ Install new sidewalk on both sides of SR 46 from US 441 to Orange St (part of Wekiva Project 3A)





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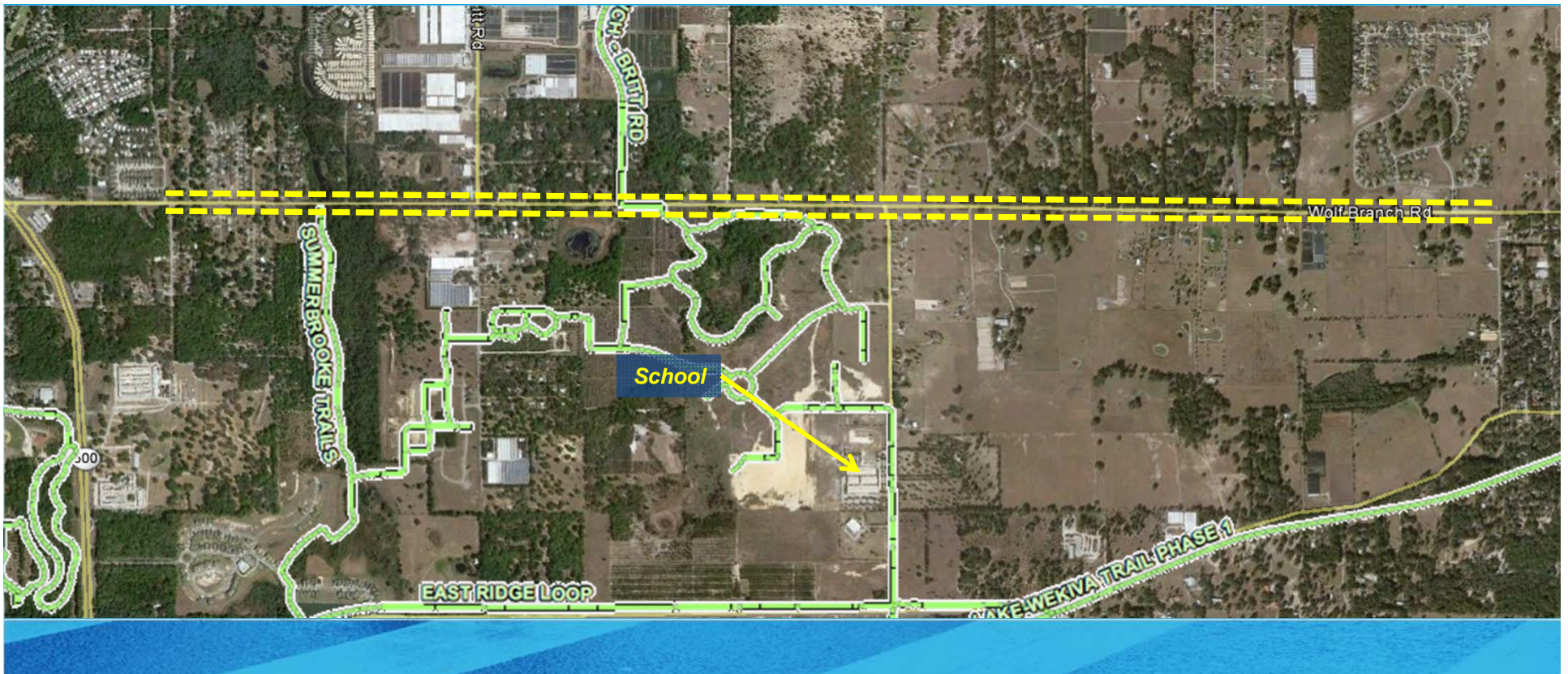
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Priority Project #6

Install New Sidewalk on Wolf Branch Road

Recommendations:

- ✓ Install new sidewalk on north or both sides of Wolf Branch Rd from Orange St to Washington Blvd





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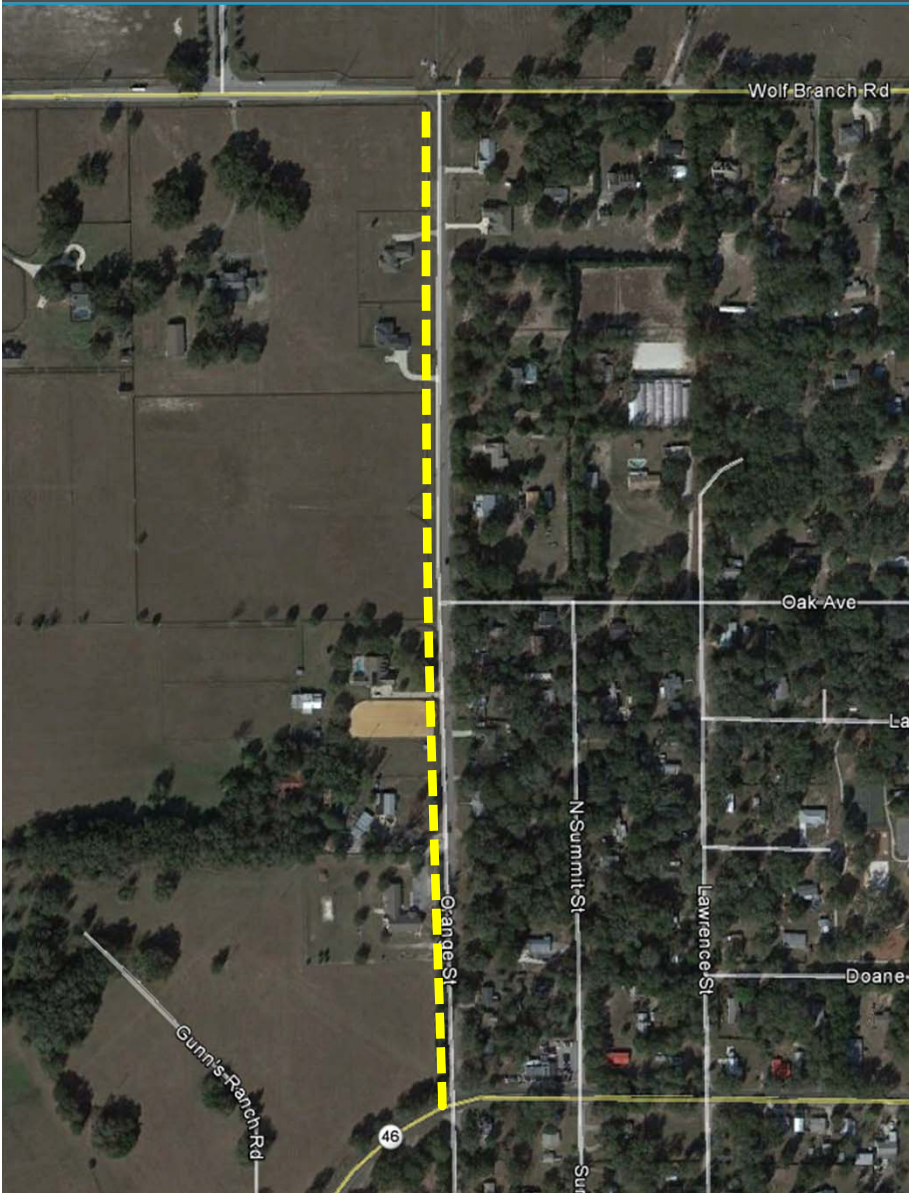
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Recommended Project #7

Install New Sidewalk on Orange Street

Recommendation:

- ✓ Install new sidewalk on west side of Orange St from SR 46 to Wolf Branch Rd





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Contact Information

This website represents an ongoing commitment to increase safe access to schools within the Lake~Sumter Metropolitan Planning Organization Planning Area.

Updates to data, and suggestions for programming and project ideas are welcome from all agencies and the general public.

Mike Woods

Project Manager, Transportation Planner

(352) 315-0170

mwoods@lakesumtermpo.com



Mindy Heath, AICP

Consultant Project Manager

(407) 420-4200

Mindy.heath@hdrinc.com



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Transportation Partnerships*