



A SAFE SCHOOLS TRANSPORTATION STUDY

EUSTIS HIGH SCHOOL

Eustis High School Eustis, FL

Eustis HIGH school



PANTHERS

December 2011



Eustis High School



Reviewed: May 16, 2011

Grades: 10th - 12th

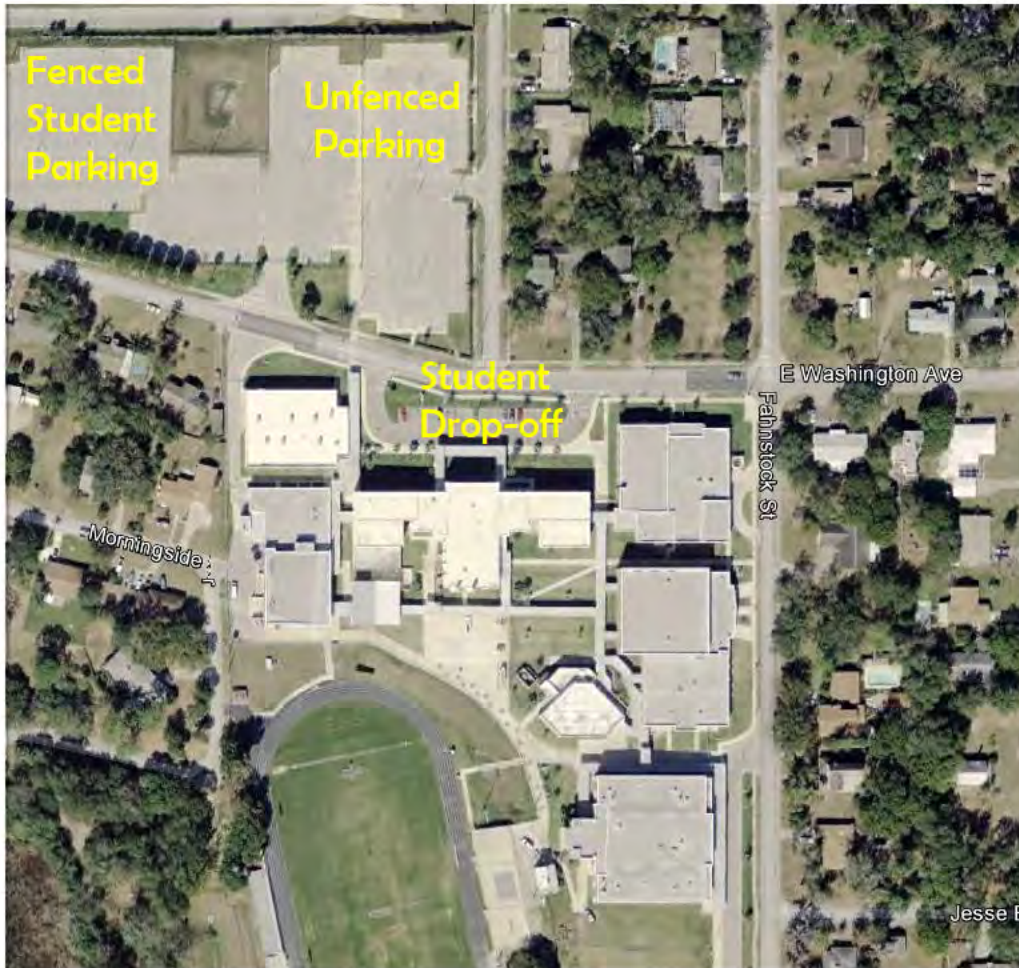
- Total Students:** 887
- **Provided Bus Transportation:** 177
 - **Buses Operating:** 17
 - **Shuttle Buses Between Main Campus and Curtright Center:** 3 twice a day
 - **Transportation Not Provided:** 541

- Students Living Within the "Walk Zone":** 337
- **Provided Transportation :** 67
 - **Transportation Not Provided:** 270
 - **Walkers/Bike Riders :** 50*
 - **Car Drop-off/Pick-up:**
 - **Self-Drive**

*Estimated



- ✓ Eustis High School (Main Campus) – Click [here](#)
- ✓ City of Eustis website – Click [here](#)
- ✓ Lake County Schools website – Click [here](#)



General Findings:

- ✓ This school is centrally located and over one-third of the students live within the two mile radius.
- ✓ This site is land-locked, resulting in off-site parking for staff and student drivers.
- ✓ Lake County Schools has eliminated (with some exceptions) courtesy busing for high school students living within the 2-mile Parent Responsibility Zone.

Neighborhood- centered schools have reduced transportation costs.



Car riders/pedestrians using the front central entrance are greeted by Principal Larry

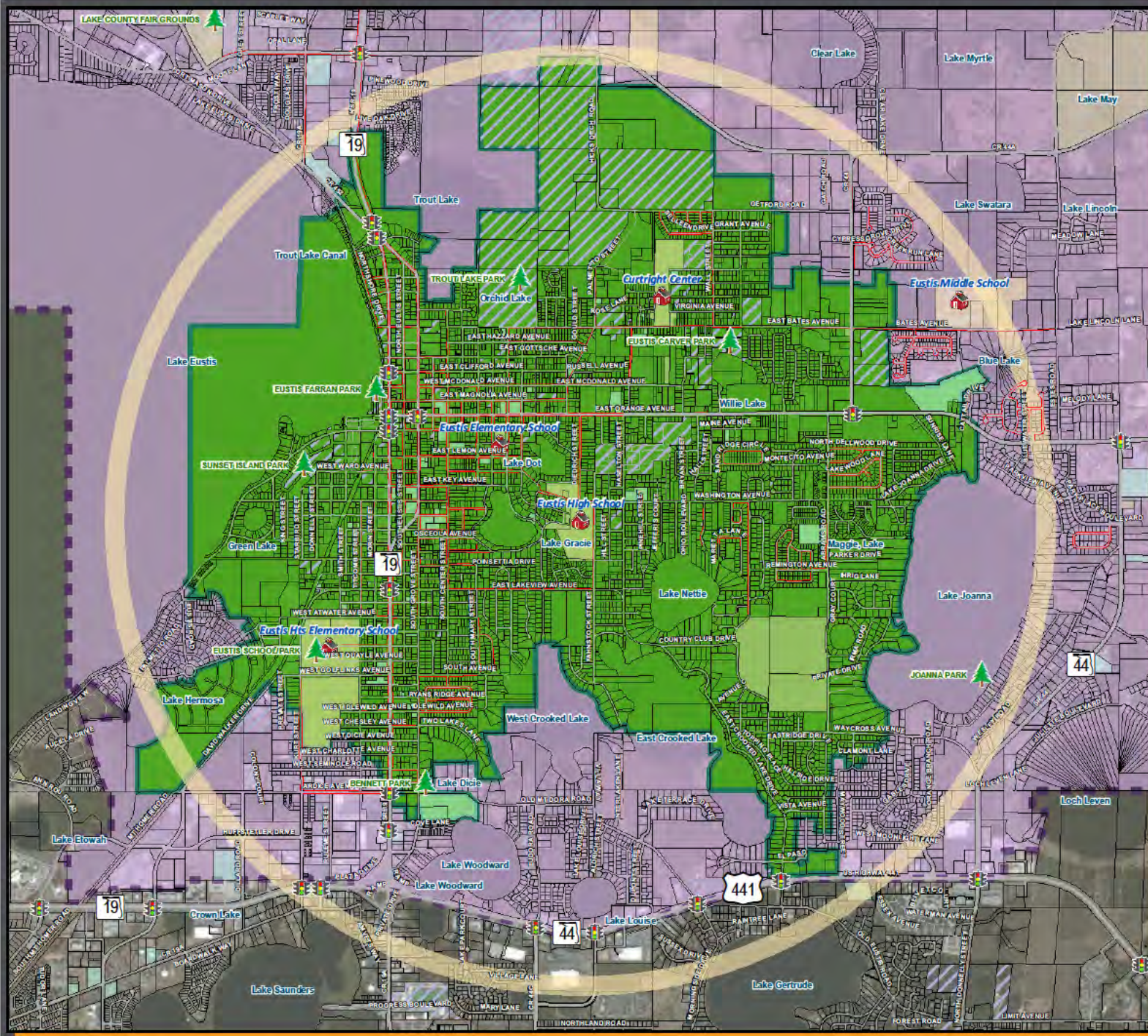
Findings:

- ✓ Since this building has multiple access points, students cross Washington Avenue at numerous places.

Recommendation:

- ✓ See Washington Avenue Concept Plan.

Eustis High School: Attendance and 2-Mile "Walk" Zone Map



LEGEND

- SAS Schools Studied
- Parks
- Existing Sidewalks and Trails
 - Existing Sidewalks
 - Existing Trails
- Road System
 - Major Roads
 - Local Roads
- Other Layers
 - Eustis High School Attendance Zone
 - Parent Responsibility Zone
 - 2-Mile Buffer of Eustis High School
 - Parcels
 - School Property - Public
 - Church Owned Property
 - County Owned Property
 - City Owned Property
 - Railroad
 - LakeXpress Bus Route
 - Traffic Signal

Source: FDOT, Lake County Schools, Hoke Design, Inc, and TranSystems

This map is intended for planning purposes only



SafeAccess
A SAFE SCHOOLS TRANSPORTATION STUDY

Map Date: December 2011

Arrival and Dismissal Schedule

Start Time: 7:20 am

Release Time: 2:26 pm

Note: Students are released one (1) hour early on Wednesdays



Findings:

- ✓ There are 16 buses in the morning and 17 buses in the afternoon.
- ✓ Three shuttle buses transport students between the Main Campus and the Curtright Center (9th Grade) twice a day.
- ✓ Buses briefly block traffic along Fahnstock Street.
- ✓ The bus loading area is approximately 350 feet long and can accommodate approximately ten buses at one time.



A motorist tries to maneuver past the bus queue on Fahnstock Street.

Recommendations:

- ✓ Consider having the buses arrive in two shifts.



Findings:

- ✓ The area allowed for the car line is too short and motorists extend into Washington Avenue during peak arrival and dismissal times.
- ✓ Pedestrians from the unfenced parking area and walkers from Diedrich Street cross through the car line to reach school destination points.



Findings (Continued):

- ✓ **Motorists release students on Washington Avenue to avoid the car line. This practice may reduce safety for the student released unpredictably. Motorists may miss seeing these students when they visually scan the sidewalks and crosswalks.**



Recommendations:

- ✓ **Emphasize safety education in school newsletters.**
- ✓ **Consider relocating the drop-off/pick-up area to the staff parking lot (see the Washington Avenue Concept Plan).**



School Access General Findings:

- ✓ Student/staff parking is separated from the high school campus by Washington Avenue.
- ✓ Students/staff cross Washington Avenue using three crosswalks and occasionally cross outside of the crosswalk area.
- ✓ Students access the front of the school at three points.
- ✓ The student drop-off/pick-up line extends into Washington Avenue during peak times.
- ✓ Lake County Sheriff's Department staff assists with student crossing during arrival and dismissal
- ✓ The principal noted that sun glare created problems for the motorists along Washington Avenue and resulted in one student crash and one staff crash.
- ✓ The parking lot was approximately 1/3 full on observation day.



Eustis High School

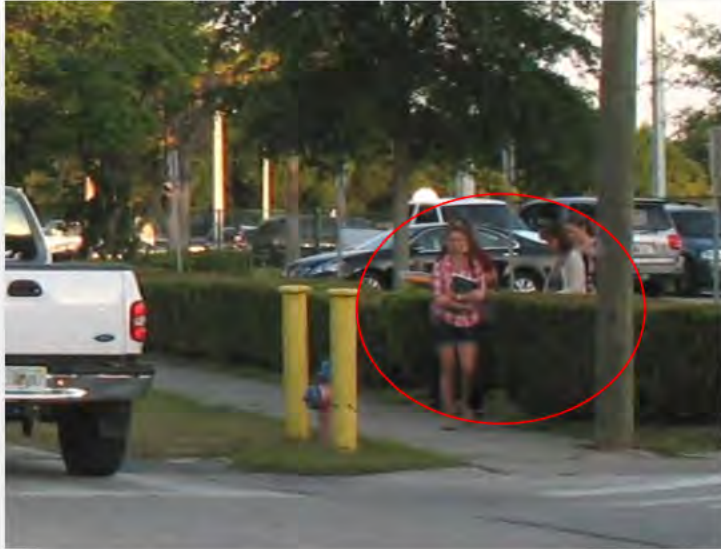
Student Self-Parking



Findings:

- ✓ The student/staff parking is separated from the high school campus by Washington Avenue. This results in high pedestrian volumes crossing Washington Avenue.
- ✓ A sidewalk is located in the fenced parking area and aligns with the staffed crosswalk that leads to the most heavily-used school entrance. A fence installed along the sidewalk prevents use by pedestrians who park in the unfenced parking area.





Findings (continued):

- ✓ Pedestrians cut through the shrubs from the unfenced parking area to find the shortest route to their destination.
- ✓ Most of the accessible parking is located off campus.

Recommendations:

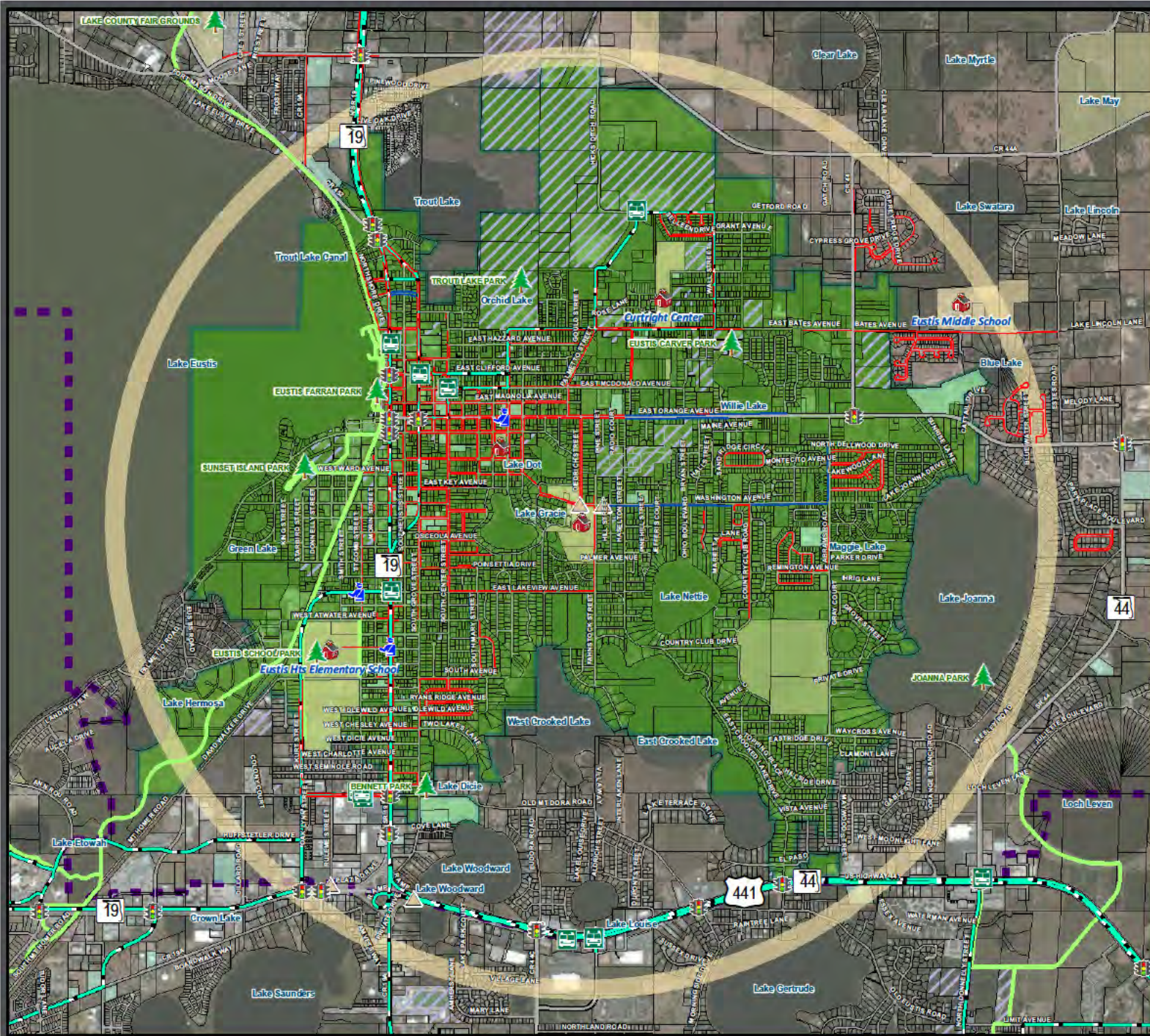
- ✓ Consider removing the existing divider fence and using the sidewalk to collect pedestrians from both parking areas (See the Washington Avenue Concept Plan).
- ✓ Consider shifting one or more accessible parking spaces to the parking area in front of the school (See the Washington Avenue Concept Plan)



Eustis High School



Eustis High School: Existing Conditions Map

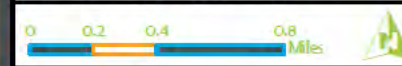


LEGEND

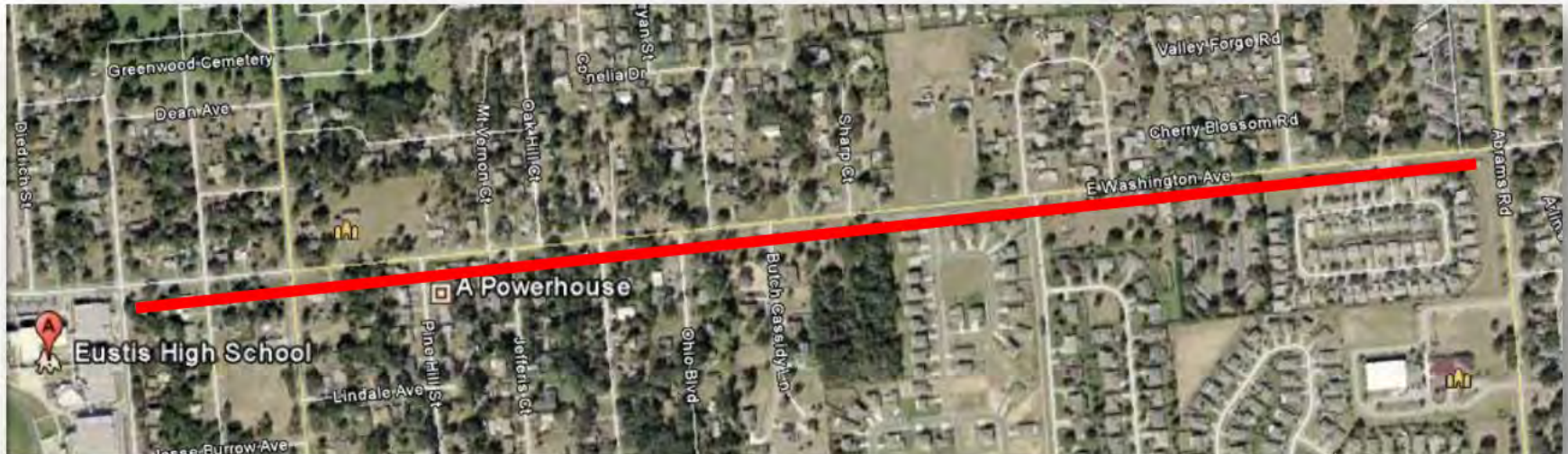
- SAS Schools Studied
- Library
- Crossing Guard Location
- 2008 - December 2011 Bicycle/Pedestrian Involved Crash Locations During School Pickup & Dropoff Times (6:50-7:20 AM & 2:26-3:00 PM)
 - Bicyclist Involved
 - Pedestrian Involved
- Existing Sidewalks and Trails
 - Existing Sidewalks
 - Existing Trails
 - Planned Sidewalks (Funded)
- Road System
 - Major Roads
 - Local Roads
- Other Layers
 - Eustis High School Attendance Zone
 - 2-Mile Buffer of Eustis High School
 - Parcels
 - School Property - Public
 - Church Owned Property
 - County Owned Property
 - City Owned Property
 - Railroad
 - LakeXpress Bus Route
 - Traffic Signal

Source: FDOT, Lake County Schools, Holte Design, Inc. and TranSystems

This map is intended for planning purposes only



Map Date: December 2011



Findings:

- ✓ Using Safe Routes to Schools (SRTS) funding, the City of Eustis recently constructed a sidewalk along the south side of Washington Avenue from Fahnstock Street to Abrams Road. This needed facility will serve many students and area residents.
- ✓ The addition of this sidewalk may increase the frequency of students crossing Washington Avenue at various locations to reach the new sidewalk.

Recommendations:

- ✓ Construct a sidewalk on the north side of Washington Avenue from Fahnstock Street to Abrams Road (see Priority Project #7 under Eustis Middle School).

Planned (Funded) Projects

Abrams Road Sidewalk (West Side)



Findings:

- ✓ Lake County plans to construct a sidewalk along the west side of Abrams Road from Washington Avenue to near Joleen Drive. There is an existing two-way stop condition at Abrams Road and Washington Avenue, with through travel on Abrams Road. Sidewalks were recently constructed along the south side of Washington Avenue from Abrams Road to Fahnstock Street.

Recommendations:

- ✓ Continue to pursue the eventual connection of the sidewalk to Orange Avenue (further north).
- ✓ Review motorist and pedestrian sight distance when placing crossings over Abrams Road.
- ✓ Construct a sidewalk on the east side of Abrams Road from Orange Avenue to Washington Avenue to collect students living east of Abrams Road. Provide a four-way stop at Abrams Road and Washington Avenue (with crosswalks) to provide a crossing over Abrams Road.



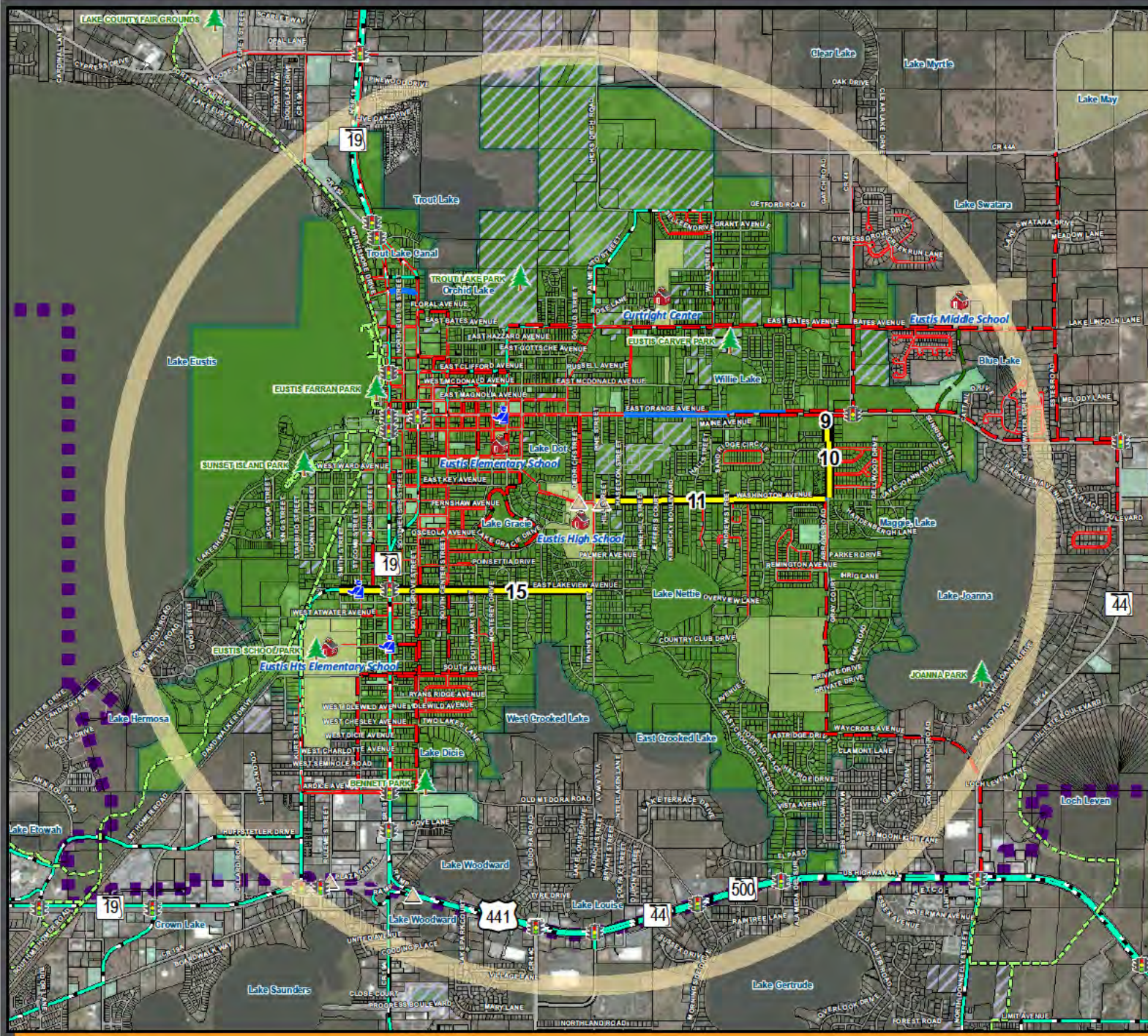
Findings:

- ✓ The City of Eustis has applied for SRTS funding for sidewalks along Orange Avenue. Funding is pending.
- ✓ The City of Eustis has added the Orange Avenue Traffic Calming project to their Capital Improvements Plan (CIP).
- ✓ Orange Avenue narrows to two lanes at Haselton Street.

Recommendations:

- ✓ Review the possibility of providing signalized pedestrian crossings at Diedrich Street and Abrams Road (or C.R. 44).

Eustis High School: Transportation Access Master Plan



LEGEND

- SAS Schools Studied
- Library
- Crossing Guard Location
- 2008 - December 2011 Bicycle/Pedestrian Involved Crash Locations During School Pickup & Dropoff Times (6:50-7:20 AM & 2:26-3:00 PM)
 - Bicyclist Involved
 - Pedestrian Involved
- Existing/Planned Projects
 - Existing Sidewalks
 - Existing Trails
 - Planned Sidewalks (Funded)
 - Planned Trails Projects (Lake County 2008 Trails Master Plan)
- SAS Projects Identified - Eustis High School
 - SAS Priority Projects (By Project ID#)
 - SAS Recommended Projects - Sidewalks
 - SAS Recommended Projects - Trails
- Road System
 - Major Roads
 - Local Roads
- Other Layers
 - Eustis High School Attendance Zone
 - 2-Mile Buffer of Eustis High School
 - Parcels
 - School Property - Public
 - Church Owned Property
 - County Owned Property
 - City Owned Property
 - Railroad
 - LakeXpress Bus Route
 - Traffic Signal

Source: FDOT, Lake County Schools, Hoke Design, Inc, and TranSystems

This map is intended for planning purposes only



SafeAccess
A SAFE SCHOOLS TRANSPORTATION STUDY



Map Date: December 2011

Eustis High School - Main Campus (Recommended Projects)

PROJECT MAP ID#	Project Type	Street Name / Title	Side	Starting Point	Stopping Point	Status	Eustis High (Main Campus)
11	Sidewalk Placement	Washington Ave.	North	Fahnstock St.	Abrams Road	Priority	PRIORITY #1
15	Sidewalk Placement	Lakeview Ave.	South	Fahnstock St.	South St.	Priority	PRIORITY #2
9	Sidewalk Placement	Abrams Road	West	Orange Ave.	Joleen Drive	Priority	PRIORITY #3
10	Sidewalk Placement	Abrams Road	East	Orange Ave.	Washington Ave.	Priority	PRIORITY #4

*Note: Please see full project list for all Eustis Area Schools by clicking [here](#)



Findings:

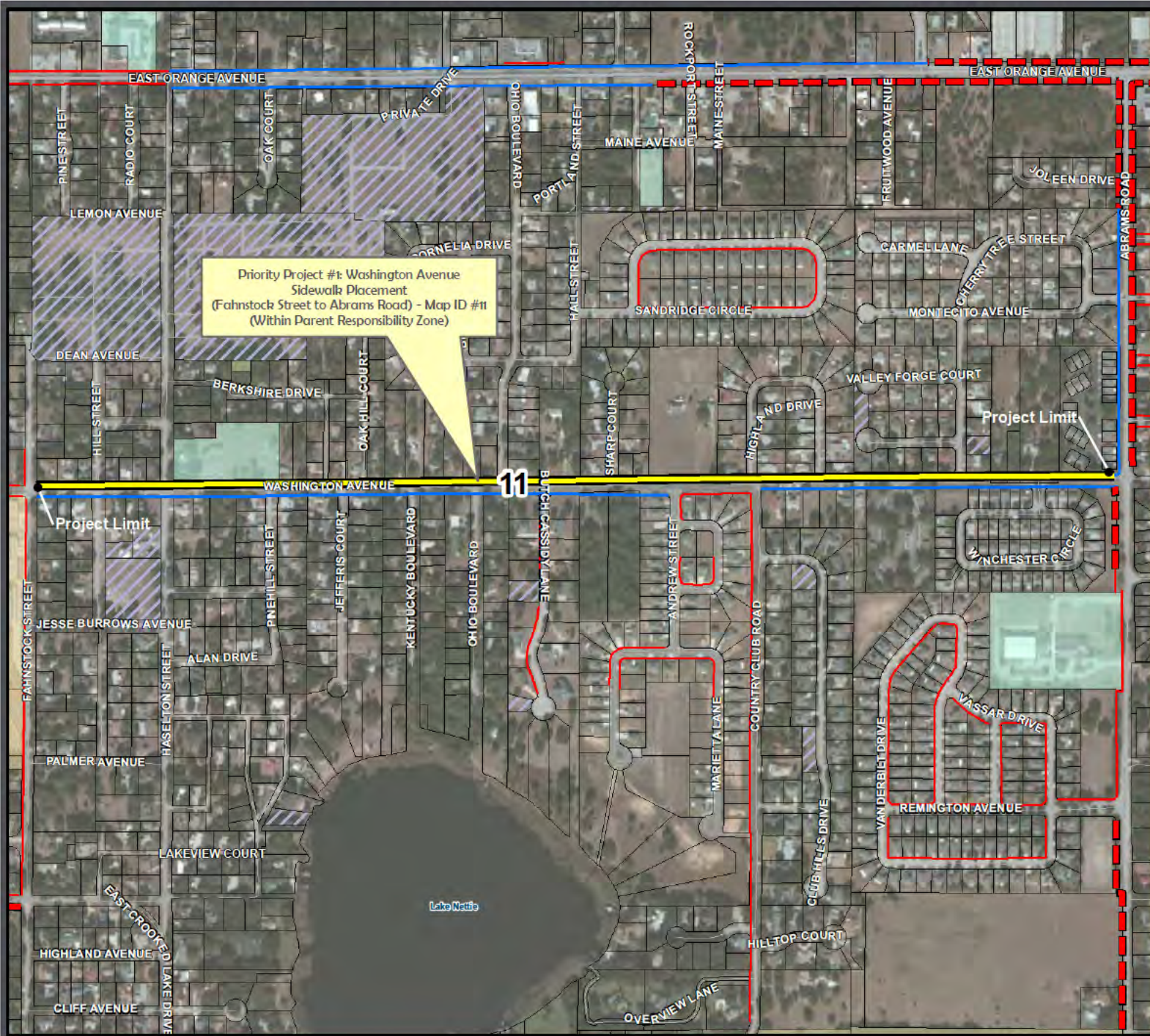
- ✓ Students living north of Washington Avenue may cross Washington Avenue at various locations to reach the newly constructed sidewalk on the south side of the street.
- ✓ The intersection of Washington Avenue and Fahnstock Street has a two-way stop condition with stop conditions on Fahnstock Street.

Recommendations:

- ✓ Construct a minimum five foot wide sidewalk on the north side of Washington Avenue from Fahnstock Street to Abrams Road.
- ✓ Consider a four-way stop condition at the intersection of Washington Avenue and Fahnstock Street.



Priority Project #1: Washington Ave (Fahnstock Street to Abrams Road) - ID #11



LEGEND

- SAS Schools Studied
- Library
- Crossing Guard Location
- Existing/Planned Projects**
 - Existing Sidewalks
 - Existing Trails
 - Planned Sidewalks (Funded)
 - Planned Trails Projects (Lake County 2008 Trails Master Plan)
- SAS Projects Identified - Eustis Heights Elementary School**
 - Priority Project #1 (Map ID #11)
 - SAS Recommended Projects - Sidewalks
 - SAS Recommended Projects - Trails
- Road System**
 - Major Roads
 - Local Roads
- Other Layers**
 - Eustis High School Attendance Zone
 - 2-Mile Buffer of Eustis High School
 - Parcels
 - School Property - Public
 - Church Owned Property
 - County Owned Property
 - City Owned Property
 - Railroad
 - LakeXpress Bus Route
 - Traffic Signal

Source: FDOT, Lake County Schools, Holte Design, Inc, and TranSystems

This map is intended for planning purposes only



Potential Construction Costs:

LONG RANGE ESTIMATE - WASHINGTON AVE (NORTH), EUSTIS FLORIDA

11 FROM FAHNSTOCK ST. TO ABRAMS ST

5196

Prepared by TranSystems

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	Fiscal Year 2011		Fiscal Year 2012		Fiscal Year 2013		Fiscal Year 2014		Fiscal Year 2015	
				UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$28,000.00	\$28,000.00	\$29,960.00	\$29,960.00	\$32,057.20	\$32,057.20	\$34,301.20	\$34,301.20	\$36,702.29	\$36,702.29
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$23,000.00	\$23,000.00	\$24,610.00	\$24,610.00	\$26,332.70	\$26,332.70	\$28,175.99	\$28,175.99	\$30,148.31	\$30,148.31
104- 20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00	\$1,070.00	\$1,070.00	\$1,144.90	\$1,144.90	\$1,225.04	\$1,225.04	\$1,310.90	\$1,310.90
	DESIGN SURVEY	1	LS	\$10,000.00	\$10,000.00	\$10,700.00	\$10,700.00	\$11,449.00	\$11,449.00	\$12,250.43	\$12,250.43	\$13,107.96	\$13,107.96
	SIGNING & PAVEMENT MARKING	1	LS	\$5,000.00	\$5,000.00	\$5,350.00	\$5,350.00	\$5,724.50	\$5,724.50	\$6,125.22	\$6,125.22	\$6,553.98	\$6,553.98
522-1	CONCRETE SIDEWALK, 4" THICK (5' WIDE)	2,888	SY	\$40.00	\$115,511.11	\$42.80	\$123,506.89	\$45.80	\$132,248.87	\$49.00	\$141,506.08	\$52.43	\$151,411.50
110-1-2	CLEARING & GRUBBING	0.60	AC	\$13,268.00	\$7,916.33	\$14,196.76	\$8,470.47	\$15,190.53	\$9,063.41	\$16,253.87	\$9,697.84	\$17,391.64	\$10,376.09
120-1	REGULAR EXCAVATION	993	CY	\$7.43	\$7,152.06	\$7.95	\$7,852.71	\$8.51	\$8,188.40	\$9.10	\$8,781.58	\$9.74	\$9,374.90
120-6	EMBANKMENT	993	CY	\$10.38	\$9,991.71	\$11.11	\$10,691.13	\$11.88	\$11,439.51	\$12.72	\$12,240.28	\$13.61	\$13,097.10
570- 1	SODDING	2,888	SY	\$3.50	\$10,107.22	\$3.75	\$10,814.73	\$4.01	\$11,571.76	\$4.29	\$12,381.78	\$4.59	\$13,248.51
	SUB- TOTAL				\$217,678.44		\$232,915.93		\$249,220.04		\$296,665.45		\$285,332.03
	CONTINGENCY (15%)				\$32,651.77		\$34,937.39		\$37,383.01		\$39,999.82		\$42,799.80
	DESIGN FEES (10%)				\$25,033.02		\$26,785.33		\$28,660.30		\$30,666.53		\$32,813.18
	CEI FEES (10%)				\$27,536.32		\$29,463.95		\$31,526.34		\$33,733.18		\$36,094.50
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$250,330.20		\$267,853.32		\$286,503.05		\$306,665.26		\$328,131.83

ESTIMATE BASIS AND ASSUMPTIONS:

- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Estimate includes maintenance of traffic costs (15% of construction costs).
- Regular excavation & embankment to 1 ft depth
- No R/W Impact
- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 7% Yearly Escalation

Findings:

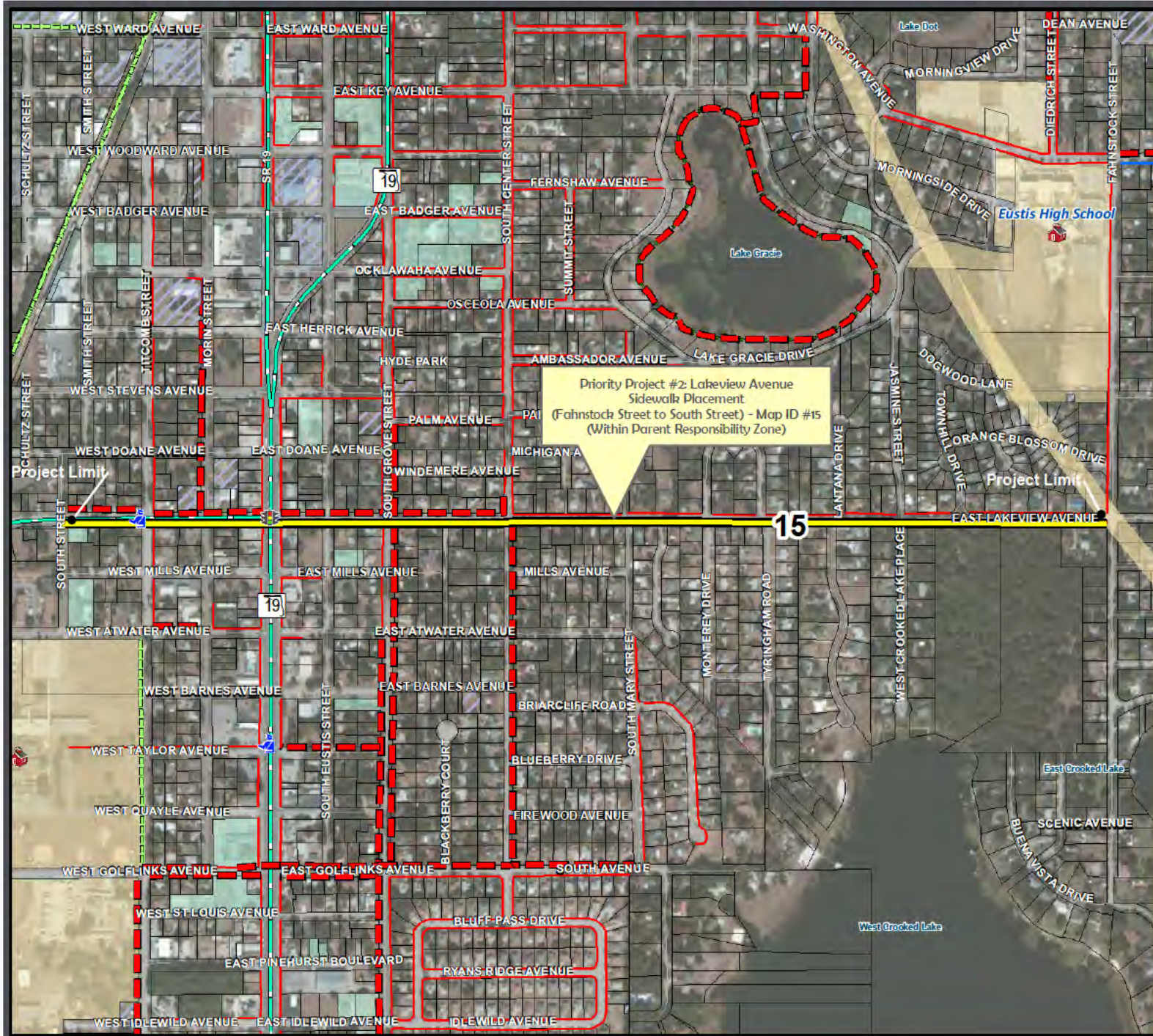
- ✓ There are no sidewalks on the south side of Lakeview Avenue from Fahnstock Street to South Street.
- ✓ There is a two-way stop condition at Lakeview Avenue and Fahnstock Street with the stop condition on Fahnstock Street.

Recommendations:

- ✓ Construct a five foot wide sidewalk on the south side of Lakeview Avenue from Fahnstock Street to South Street.
- ✓ Review the possibility of creating a 4-way stop condition at Fahnstock Street and Lakeview Avenue.



Priority Project #2: Lakeview Ave (Fahnstock Street to South Street) - ID #15



LEGEND

- SAS Schools Studied
- Library
- Crossing Guard Location
- Existing/Planned Projects**
 - Existing Sidewalks
 - Existing Trails
 - Planned Sidewalks (Funded)
 - Planned Trails Projects (Lake County 2008 Trails Master Plan)
- SAS Projects Identified - Eustis Heights Elementary School**
 - Priority Project #2 (Map ID #15)
 - SAS Recommended Projects - Sidewalks
 - SAS Recommended Projects - Trails
- Road System**
 - Major Roads
 - Local Roads
- Other Layers**
 - Eustis High School Attendance Zone
 - 2-Mile Buffer of Eustis High School
 - Parcels
 - School Property - Public
 - Church Owned Property
 - County Owned Property
 - City Owned Property
 - Railroad
 - LakeXpress Bus Route
 - Traffic Signal

Source: FDOT, Lake County Schools, Holte Design, Inc, and TranSystems

This map is intended for planning purposes only



SafeAccess
A SAFE SCHOOLS TRANSPORTATION STUDY

Lake-Sumter MPO
Metropolitan Planning Organization

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

TranSystems

Map Date: December 2011

Potential Construction Costs:

LONG RANGE ESTIMATE - LAKEVIEW AVE (SOUTH SIDE), EUSTIS FLORIDA

15 FROM FAHNSTOCK ST. TO SOUTH ST

5736

Prepared by TranSystems

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	Fiscal Year 2011		Fiscal Year 2012		Fiscal Year 2013		Fiscal Year 2014		Fiscal Year 2015	
				UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$31,000.00	\$31,000.00	\$33,170.00	\$33,170.00	\$35,491.90	\$35,491.90	\$37,976.33	\$37,976.33	\$40,634.66	\$40,634.66
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$25,000.00	\$25,000.00	\$26,750.00	\$26,750.00	\$28,622.50	\$28,622.50	\$30,626.08	\$30,626.08	\$32,769.90	\$32,769.90
104- 20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00	\$1,070.00	\$1,070.00	\$1,144.90	\$1,144.90	\$1,226.04	\$1,226.04	\$1,310.80	\$1,310.80
	DESIGN SURVEY	1	LS	\$10,000.00	\$10,000.00	\$10,700.00	\$10,700.00	\$11,449.00	\$11,449.00	\$12,250.43	\$12,250.43	\$13,107.96	\$13,107.96
	SIGNING & PAVEMENT MARKING	1	LS	\$5,000.00	\$5,000.00	\$5,350.00	\$5,350.00	\$5,724.50	\$5,724.50	\$6,125.22	\$6,125.22	\$6,563.98	\$6,563.98
622-1	CONCRETE SIDEWALK, 4" THICK (5' WIDE)	3,187	SY	\$40.00	\$127,486.67	\$42.80	\$136,389.33	\$46.80	\$146,936.59	\$49.00	\$156,152.15	\$52.43	\$167,082.80
110-1-2	CLEARING & GRUBBING	0.86	AC	\$13,288.00	\$8,735.68	\$14,198.76	\$9,347.18	\$15,190.53	\$10,001.48	\$16,253.87	\$10,701.58	\$17,391.84	\$11,450.70
120-1	REGULAR EXCAVATION	1,082	CY	\$7.43	\$7,892.31	\$7.95	\$8,444.77	\$8.51	\$9,035.91	\$9.10	\$9,668.42	\$9.74	\$10,346.21
120-6	EMBANKMENT	1,082	CY	\$10.38	\$11,025.87	\$11.11	\$11,797.88	\$11.88	\$12,623.51	\$12.72	\$13,507.16	\$13.61	\$14,452.86
670- 1	SODDING	3,187	SY	\$3.50	\$11,153.33	\$3.75	\$11,934.07	\$4.01	\$12,769.45	\$4.29	\$13,683.31	\$4.59	\$14,619.74
	SUB- TOTAL				\$238,273.86		\$254,953.03		\$272,799.74		\$291,895.72		\$312,328.42
	CONTINGENCY (15%)				\$35,741.08		\$38,242.95		\$40,919.96		\$43,784.36		\$46,849.26
	DESIGN FEES (10%)				\$27,401.49		\$29,319.60		\$31,371.97		\$33,568.01		\$35,917.77
	CEI FEES (10%)				\$30,141.64		\$32,251.56		\$34,509.17		\$36,924.81		\$39,509.55
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$274,014.94		\$293,195.98		\$313,719.70		\$335,680.08		\$359,177.69

ESTIMATE BASIS AND ASSUMPTIONS:

- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Estimate includes maintenance of traffic costs (15% of construction costs).
- Regular excavation & embankment to 1 ft depth
- No R/W Impact
- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 7% Yearly Escalation

Findings:

- ✓ Lake County plans to construct a sidewalk along the west side of Abrams Road from Washington Avenue to approximately 120 feet south of Joleen Drive. This will leave a sidewalk gap to Orange Avenue.
- ✓ The right of way may be constrained.

Recommendations:

- ✓ Construct a five foot wide sidewalk along the west side of Abrams Road from Orange Avenue to the terminus of the planned Lake County sidewalk project ending near Joleen Drive.
- ✓ Provide a crosswalk over Abrams Road at Orange Avenue to connect to the convenience store at this location.
- ✓ Review the possibility of constructing a signal with pedestrian crossing features over Orange Avenue in this location or on the east side of the roadway to provide connectivity to Eustis Middle and the Curtright 9th Grade Center.



Priority Project #3: Abrams Road (Washington Ave to Joleen Drive) - ID #9



LEGEND

- SAS Schools Studied
- Library
- Crossing Guard Location
- Existing/Planned Projects**
 - Existing Sidewalks
 - Existing Trails
 - Planned Sidewalks (Funded)
 - Planned Trails Projects (Lake County 2008 Trails Master Plan)
- SAS Projects Identified - Eustis Heights Elementary School**
 - Priority Project #3 (Map ID #9)
 - SAS Recommended Projects - Sidewalks
 - SAS Recommended Projects - Trails
- Road System**
 - Major Roads
 - Local Roads
- Other Layers**
 - Eustis High School Attendance Zone
 - 2-Mile Buffer of Eustis High School
 - Parcels
 - School Property - Public
 - Church Owned Property
 - County Owned Property
 - City Owned Property
 - Railroad
 - LakeXpress Bus Route
 - Traffic Signal

Source: FDOT, Lake County Schools, Hole Design, Inc, and TranSystems

This map is intended for planning purposes only



SafeAccess
A SAFE SCHOOLS TRANSPORTATION STUDY

Lake-Sumter MPO
Metropolitan Planning Organization

STATE OF FLORIDA

TranSystems

Map Date: December 2011

Potential Construction Costs:

LONG RANGE ESTIMATE - ABRAMS (WEST), EUSTIS FLORIDA

9. FROM ORANGE AVE TO JOLEEN DR.

606

Prepared by TransSystems

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	Fiscal Year 2011		Fiscal Year 2012		Fiscal Year 2013		Fiscal Year 2014		Fiscal Year 2015	
				UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$8,000.00	\$8,000.00	\$8,580.00	\$8,580.00	\$9,159.20	\$9,159.20	\$9,800.34	\$9,800.34	\$10,486.37	\$10,486.37
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$5,000.00	\$5,000.00	\$5,350.00	\$5,350.00	\$5,724.50	\$5,724.50	\$6,125.22	\$6,125.22	\$6,553.98	\$6,553.98
104- 20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00	\$1,070.00	\$1,070.00	\$1,144.90	\$1,144.90	\$1,225.04	\$1,225.04	\$1,310.80	\$1,310.80
	DESIGN SURVEY	1	LS	\$10,000.00	\$10,000.00	\$10,700.00	\$10,700.00	\$11,449.00	\$11,449.00	\$12,250.43	\$12,250.43	\$13,107.96	\$13,107.96
	SIGNING & PAVEMENT MARKING	1	LS	\$5,000.00	\$5,000.00	\$5,350.00	\$5,350.00	\$5,724.50	\$5,724.50	\$6,125.22	\$6,125.22	\$6,553.98	\$6,553.98
522-1	CONCRETE SIDEWALK, 4" THICK (5' WIDE)	337	SY	\$81.33	\$27,381.10	\$87.02	\$29,297.78	\$93.11	\$31,348.62	\$99.83	\$33,543.02	\$106.61	\$35,891.04
110-1-2	CLEARING & GRUBBING	0.07	AC	\$13,288.00	\$922.91	\$14,196.76	\$987.52	\$15,190.53	\$1,058.64	\$16,253.87	\$1,130.81	\$17,391.64	\$1,208.75
120-1	REGULAR EXCAVATION	112	CY	\$7.43	\$833.81	\$7.95	\$892.18	\$8.51	\$954.63	\$9.10	\$1,021.45	\$9.74	\$1,092.98
120-8	EMBANKMENT	112	CY	\$10.38	\$1,164.67	\$11.11	\$1,246.41	\$11.88	\$1,333.68	\$12.72	\$1,427.01	\$13.61	\$1,526.90
070- 1	SODDING	337	SY	\$5.00	\$1,683.33	\$5.35	\$1,801.17	\$5.72	\$1,927.20	\$6.13	\$2,062.16	\$6.55	\$2,206.51
	SUB- TOTAL				\$60,986.02		\$65,255.04		\$69,822.50		\$74,710.50		\$79,940.24
	CONTINGENCY (15%)				\$9,147.90		\$9,788.26		\$10,473.43		\$11,296.58		\$11,991.04
	DESIGN FEES (10%)				\$7,013.39		\$7,504.33		\$8,029.83		\$8,591.71		\$9,193.13
	CEI FEES (10%)				\$7,714.73		\$8,254.76		\$8,832.50		\$9,450.88		\$10,112.44
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$70,133.93		\$75,043.30		\$80,296.33		\$85,917.08		\$91,931.27


ESTIMATE BASIS AND ASSUMPTIONS:

- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Estimate includes maintenance of traffic costs (15% of construction costs).
- Regular excavation & embankment to 1 ft depth
- No R/W Impact
- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 7% Yearly Escalation

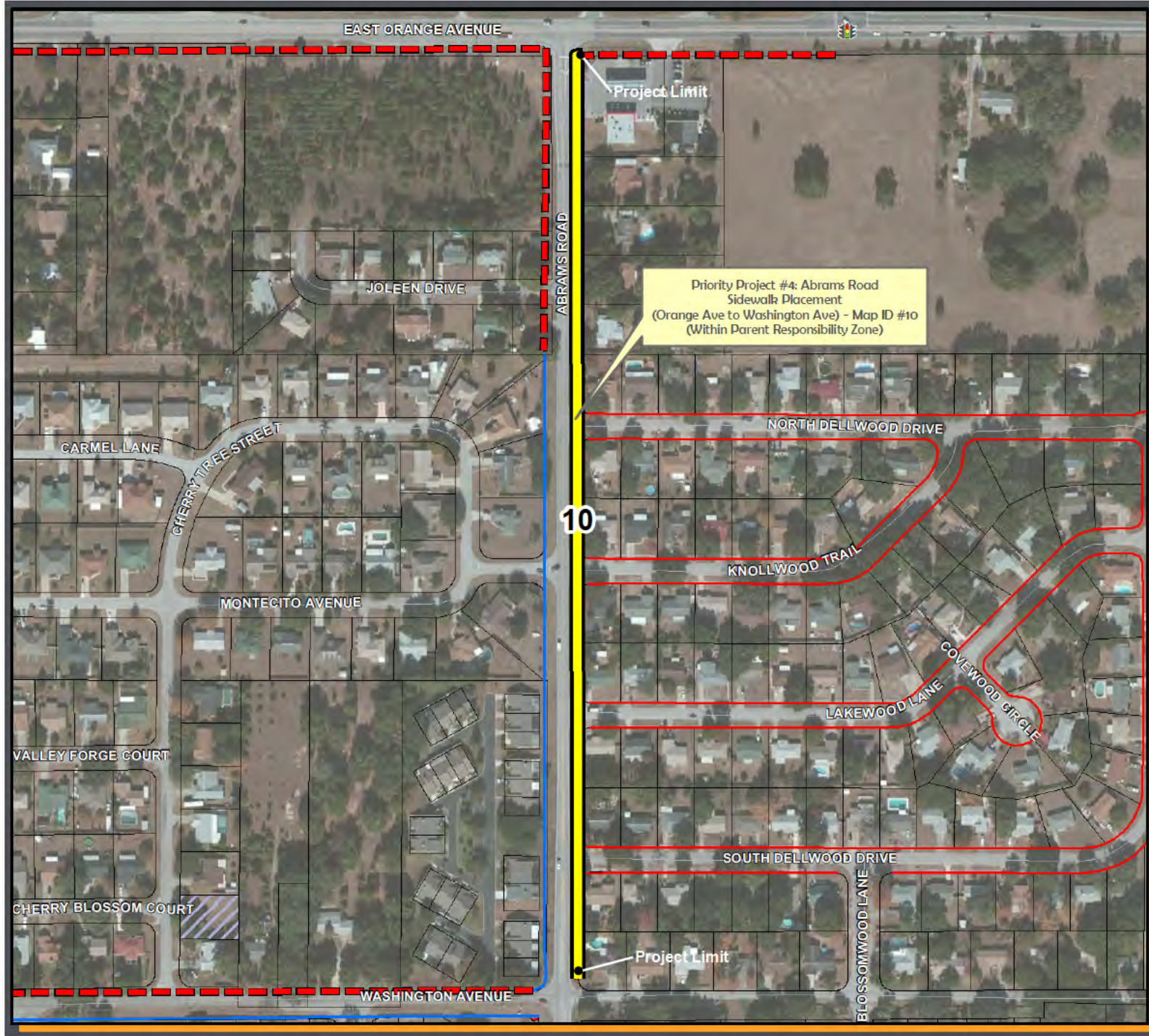
Findings:

- ✓ There are no sidewalks on the east side of Abrams Road and students living east of Abrams Road may cross Abrams Road at several locations to reach the sidewalk planned for construction on the west side.
- ✓ Abrams Road has a 30 MPH speed limit.
- ✓ The terrain creates reduced vertical sight distance in some areas.
- ✓ The County plans to construct a partial sidewalk along the west side of Abrams Road from Washington Avenue to near Joleen Drive (see Priority Project #3).

Recommendations:

- ✓ Review the possibility of providing a four-way stop condition at Abrams Road and Washington Avenue with crosswalk connections.
 - ✓ Review the possibility of providing a signal with pedestrian features over Orange Avenue to make the eventual connection to Eustis Middle and Curtright 9th Grade Center schools.
- 

Priority Project #4: Abrams Road (Orange Ave to Washington Ave) - ID #10



LEGEND

- SAS Schools Studied
- Library
- Crossing Guard Location
- Existing/Planned Projects**
 - Existing Sidewalks
 - Existing Trails
 - Planned Sidewalks (Funded)
 - Planned Trails Projects (Lake County 2008 Trails Master Plan)
- SAS Projects Identified - Eustis Heights Elementary School**
 - Priority Project #4 (Map ID #10)
 - SAS Recommended Projects - Sidewalks
 - SAS Recommended Projects - Trails
- Road System**
 - Major Roads
 - Local Roads
- Other Layers**
 - Eustis High School Attendance Zone
 - 2-Mile Buffer of Eustis High School
 - Parcels
 - School Property - Public
 - Church Owned Property
 - County Owned Property
 - City Owned Property
 - Railroad
 - LakeXpress Bus Route
 - Traffic Signal

Source: FDOT, Lake County Schools, Hole Design, Inc, and TranSystems

This map is intended for planning purposes only



SafeAccess
A SAFE SCHOOLS TRANSPORTATION STUDY

Lake-Sumter
Metropolitan Planning Organization

TranSystems

Map Date: December 2011

Potential Construction Costs:

LONG RANGE ESTIMATE - ABRAMS (EAST), EUSTIS FLORIDA

10. FROM ORANGE AVE TO WASHINGTON AVE.

1883

Prepared by TranSystems

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	Fiscal Year 2011		Fiscal Year 2012		Fiscal Year 2013		Fiscal Year 2014		Fiscal Year 2015	
				UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$20,000.00	\$20,000.00	\$21,400.00	\$21,400.00	\$22,898.00	\$22,898.00	\$24,500.86	\$24,500.86	\$26,215.92	\$26,215.92
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$15,000.00	\$15,000.00	\$16,050.00	\$16,050.00	\$17,173.50	\$17,173.50	\$18,375.85	\$18,375.85	\$19,661.94	\$19,661.94
104- 20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00	\$1,070.00	\$1,070.00	\$1,144.90	\$1,144.90	\$1,225.04	\$1,225.04	\$1,310.80	\$1,310.80
	DESIGN SURVEY	1	LS	\$10,000.00	\$10,000.00	\$10,700.00	\$10,700.00	\$11,449.00	\$11,449.00	\$12,250.43	\$12,250.43	\$13,107.96	\$13,107.96
	SIGNING & PAVEMENT MARKING	1	LS	\$5,000.00	\$5,000.00	\$5,350.00	\$5,350.00	\$5,724.50	\$5,724.50	\$6,126.22	\$6,126.22	\$6,563.98	\$6,563.98
522-1	CONCRETE SIDEWALK, 4" THICK (6' WIDE)	1.048	SY	\$81.33	\$85,090.22	\$87.02	\$91,035.93	\$93.11	\$97,403.34	\$99.83	\$104,226.92	\$106.81	\$111,622.81
110-1-2	CLEARING & GRUBBING	0.22	AC	\$13,268.00	\$2,887.73	\$14,196.78	\$3,068.47	\$15,190.53	\$3,283.26	\$16,253.87	\$3,513.09	\$17,391.84	\$3,759.01
120-1	REGULAR EXCAVATION	349	CY	\$7.43	\$2,580.87	\$7.95	\$2,772.23	\$8.51	\$2,968.29	\$9.10	\$3,173.93	\$9.74	\$3,396.10
120-6	EMBANKMENT	349	CY	\$10.38	\$3,619.54	\$11.11	\$3,872.91	\$11.88	\$4,144.02	\$12.72	\$4,434.10	\$13.81	\$4,744.48
570- 1	SODDING	1.048	SY	\$5.00	\$5,230.56	\$5.35	\$5,598.09	\$5.72	\$6,003.46	\$6.13	\$6,407.86	\$6.56	\$6,850.19
	SUB- TOTAL				\$150,388.91		\$160,916.14		\$172,180.27		\$184,232.89		\$197,129.19
	CONTINGENCY (15%)				\$22,558.34		\$24,137.42		\$25,827.04		\$27,634.93		\$29,569.38
	DESIGN FEES (10%)				\$17,294.72		\$18,505.36		\$19,800.73		\$21,186.78		\$22,669.86
	CEI FEES (10%)				\$19,024.20		\$20,355.89		\$21,780.80		\$23,305.46		\$24,936.84
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$172,947.26		\$185,053.56		\$198,007.31		\$211,867.82		\$226,698.57

ESTIMATE BASIS AND ASSUMPTIONS:

- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Estimate includes maintenance of traffic costs (15% of construction costs).
- Regular excavation & embankment to 1 ft depth
- No R/W Impact
- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 7% Yearly Escalation

Other Recommendations

Diedrich Street Sidewalk (West Side)



Findings:

- ✓ There is no sidewalk on the west side of Diedrich Street from the school property (parking area) to Orange Avenue. Students were observed walking in the grass on the west side of the road. A sidewalk exists on the east side of the street.

Recommendations:

- ✓ Plan for construction of a sidewalk along the west side of Diedrich Street from the school property to Orange Avenue. This sidewalk should be 6-8 feet wide to accommodate multiple users. This sidewalk has the potential to connect across Orange Avenue with a signalized crossing and continue as a trail connecting to McDonald Avenue (see the Transportation Access Master Plan)



Eustis High School



School Circulation Concept Plan

Recommendations:

- ✓ Consider options to eliminate or reduce the pedestrian/vehicle conflict on Washington Avenue.
- ✓ Review the possibility of using cones to close Washington Avenue to through traffic during arrival and dismissal times.
- ✓ Research the possibility of using the off-site parking area for two separate drop-off /pick-up lines with the existing sidewalk as a collector for both (remove fencing or add gates).
- ✓ Consider re-locating the accessible parking to the parking closest to the office. One space exists now, and four spaces are located across from Washington Avenue.

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



Doug Lynch, GISP

Consultant Project Manager

(407) 875-8938

dwlynch@transystems.com



*Promoting Regional
Transportation Partnerships*