



A SAFE SCHOOLS TRANSPORTATION STUDY

Eustis Middle School

Eustis, FL

EUSTIS
MIDDLE
SCHOOL

EUSTIS MIDDLE SCHOOL

District
Champions

November 2011

TranSystems

Lake-Sumter
mpo
Metropolitan
Planning Organization

Eustis Middle School

Eustis Middle School Snapshot



June 7, 2011

Grades: 6th, 7th, and 8th

Total Students: 991

- Provided Bus Transportation : 694
- Not Provided Bus Transportation: 297

Students Living within 2-Mile Radius: 268

- Provided Bus Transportation: 163
- Not Provided Bus Transportation: 105

Observation Day (Light Rain)

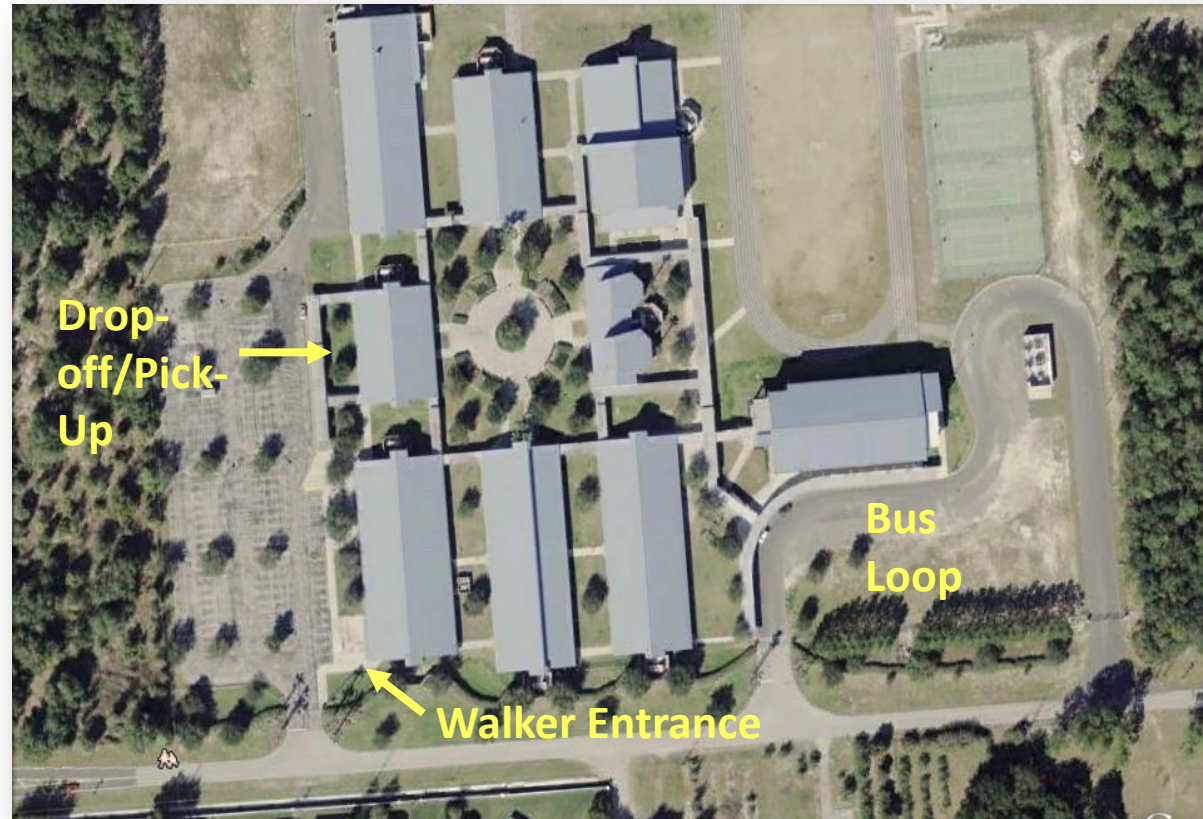
- Walkers: 32
- Bike Riders: 1



- ✓ Eustis Middle School website – Click [here](#)
- ✓ City of Eustis website – Click [here](#)
- ✓ Lake County School District website – Click [here](#)

Findings:

1. The school is located within a residential area with some sidewalks and bike lanes.
2. Bates Avenue sidewalks provide the primary walking route.
3. Traffic volume increases at school arrival and dismissal.



Attendance and 2-Mile “Walk” Zone

Findings and Recommendations – On Campus

- ✓ Campus Access Overview
- ✓ Arrival and Dismissal Schedule
- ✓ Bus/Transit/Access
- ✓ Student Drop-off and Pick-Up
- ✓ Bicycle/Pedestrian “Walker” Access

Findings and Recommendations - Off Campus

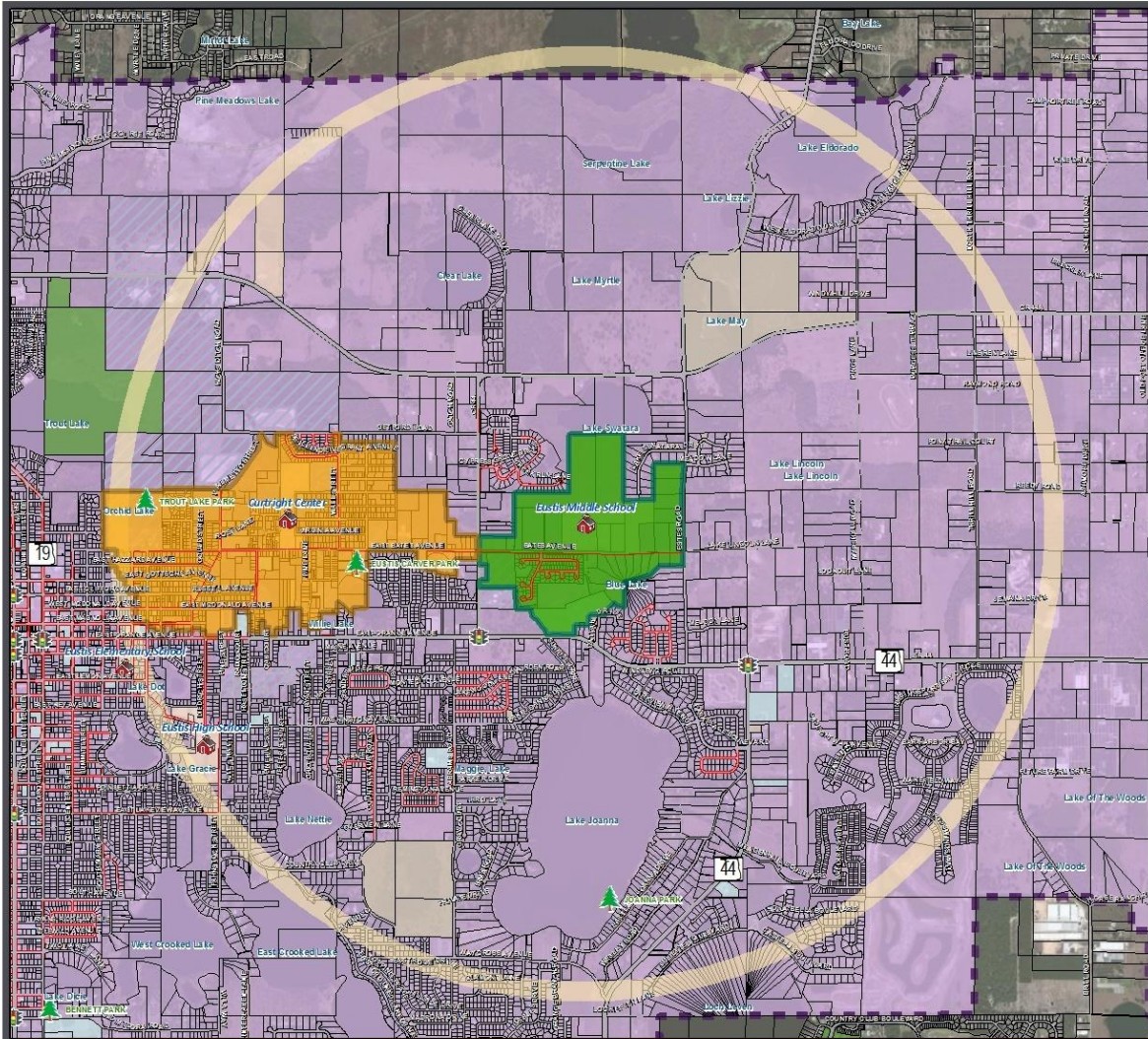
- ✓ Existing Conditions
- ✓ Planned Projects
- ✓ SSATS Transportation Access Master Plan
- ✓ SSATS Priority Projects

Other Recommendations



Attendance and 2-Mile "Walk" Zone Map

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



LEGEND

- SSATS Schools Studied
- Parks
- Road System**
 - Major Roads
 - Local Roads
- Other Layers**
 - Eustis Middle School Attendance Zone
 - Parent Responsibility Zone
 - Middle School Special Exception Area
 - 2-Mile Buffer of Eustis Middle School
 - Parcels
 - School Property - Public
 - Church Owned Property
 - County Owned Property
 - City Owned Property
 - Railroad
 - LakeXpress Bus Route
 - Traffic Signal

Source: FDOT, FDLE, Lake County Schools, Hobe Design, Inc, and TransSystems
 This map is intended for planning purposes only

0 0.2 0.4 0.8 Miles

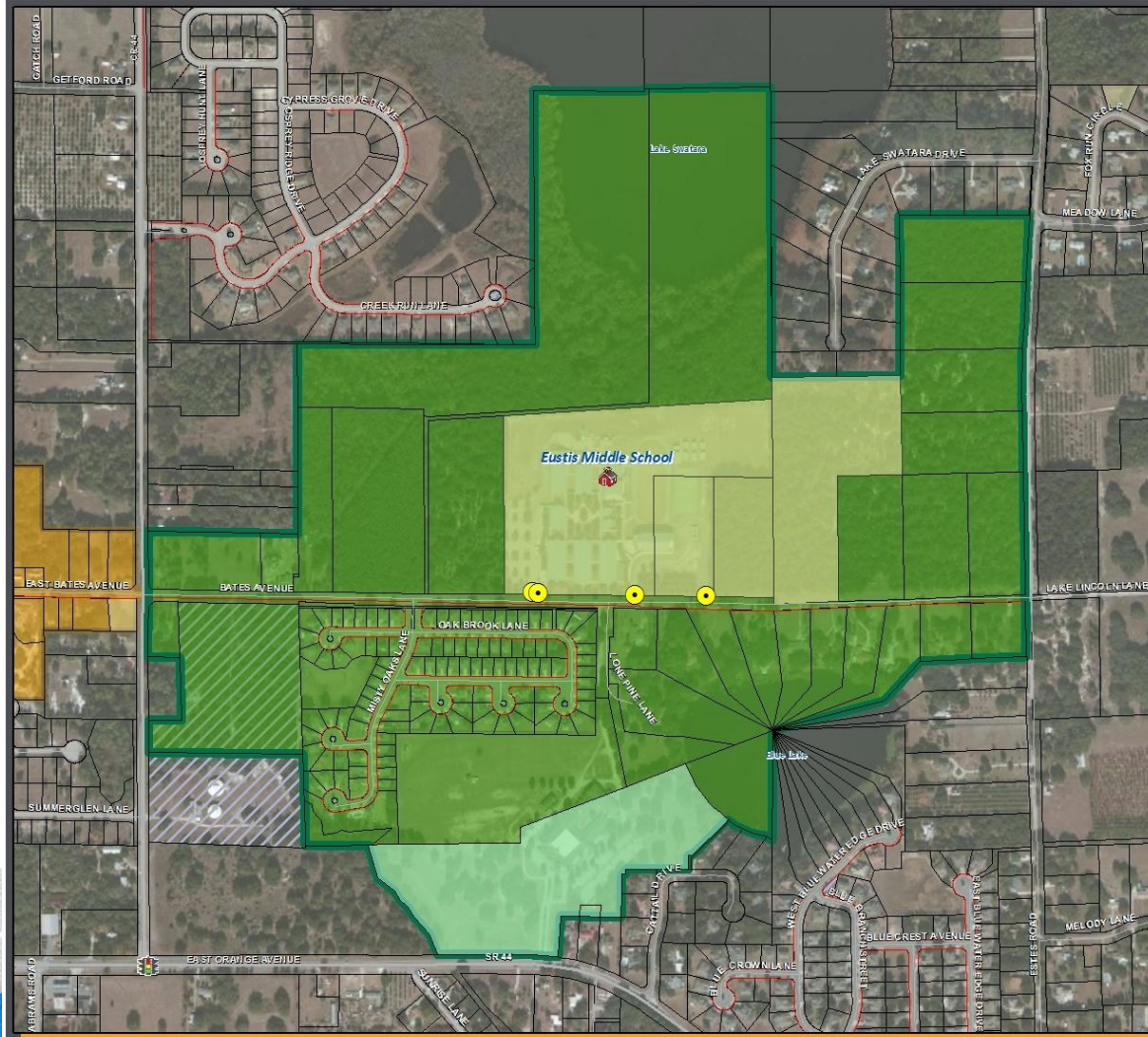
SafeAccess
A SAFE SCHOOLS TRANSPORTATION STUDY

Lake-Summer **mco** **TransSystems**

Map Date: August 2011

Eustis Middle School

Eustis Middle School: Student Access Location Map



LEGEND

- School Access Locations
- Eustis Middle School
- Parks
- Road System**
 - Major Roads
 - Local Roads
- Other Layers**
 - Parent Responsibility Zone
 - Middle School Special Exception Area
 - Parcels
 - School Property - Public
 - Church Owned Property
 - County Owned Property
 - City Owned Property
 - Railroad
 - LakeXpress Bus Route
 - Traffic Signal

Source: FDOT, Lake County Schools, Hobe Design, Inc., and TransSystems
 This map is intended for planning purposes only.

0 0.045 0.09 0.18 Miles

SafeAccess
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Lake-Summer
mco

TransSystems

Map Date: August 2011

8:30-9:00 am: Arrival – Staggered in 4 Tiers, 28 Buses Total

8:45 am: Breakfast - Students waiting at bus loop are released for breakfast, 125 students attend breakfast on average

3:55- 4:01 pm: Release – Staggered for Bus Transported Students

4:00 pm: Walkers and Car Riders Released

Note: Students are released one hour early on Wednesdays





Findings:

- ✓ The bus loading and unloading is very organized and efficient.
- ✓ Groups of buses arrive in four (4) tiers to accommodate the many bus riders and to reduce student group size.

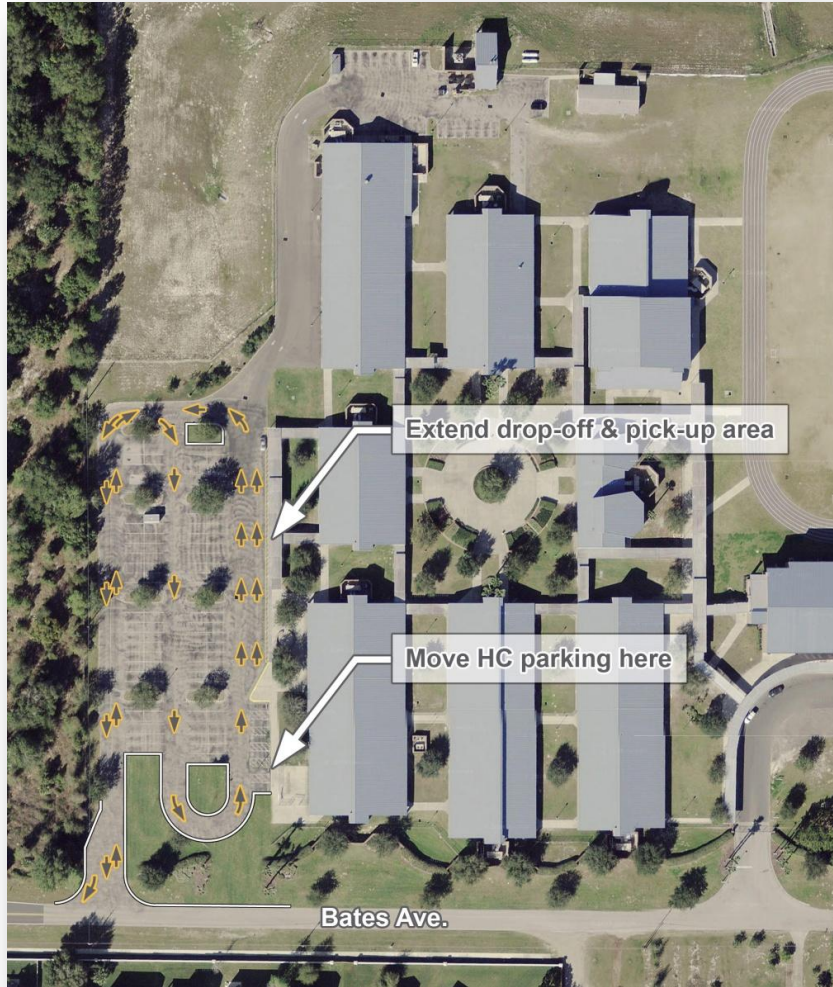


Findings:

- ✓ Cones are placed to direct motorist through car line.
- ✓ Car line extends into Bates Avenue at various times.
- ✓ Distance from school entrance to pick-up/drop-off area is short.
- ✓ Pick-up/Drop-off area is short in length.



Student Drop-off and Pick-up Recommendations



Recommendations:

- ✓ Relocate parking lot entrance to the west
- ✓ Add a right turn lane
- ✓ Revise and sign parking lot to include permanent one-way circulation as shown.
- ✓ Extend car drop-off and pick-up area
- ✓ Relocate accessible parking
- ✓ Review the need for a right turn lane on Bates Ave for west-bound traffic (avoid crosswalk area)

Potential Modified Car Line Exhibit



Findings:

- ✓ Several students walked to off-campus areas to be picked-up in order to avoid the car line.
- ✓ There is no supervision of students off campus.
- ✓ There are potential safety issues and traffic disruptions when loading or unloading into traffic.

Recommendations:

- ✓ Making recommended changes to the drop-off/pick-up area may increase efficiency and reduce remote drop-off and pick-up.
- ✓ Consider partnering with the church property across from Bates Avenue to see if a pedestrian connection can be developed. Include a remote drop-off and pick up area that is accessible from Orange Avenue.



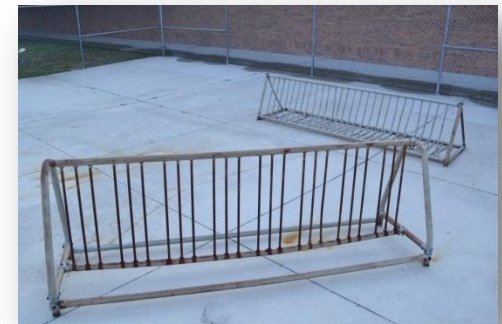
School Existing Conditions and Procedures:

- ✓ A new wide sidewalk promotes walking and bicycle riding to school and increases safety.
- ✓ The new sidewalk connects the bicycle parking area to the new crosswalk over Bates Avenue.
- ✓ All walkers cross Bates Avenue.
- ✓ Staff crosses students in small groups, frequently stopping traffic along Bates Avenue.



Recommendations:

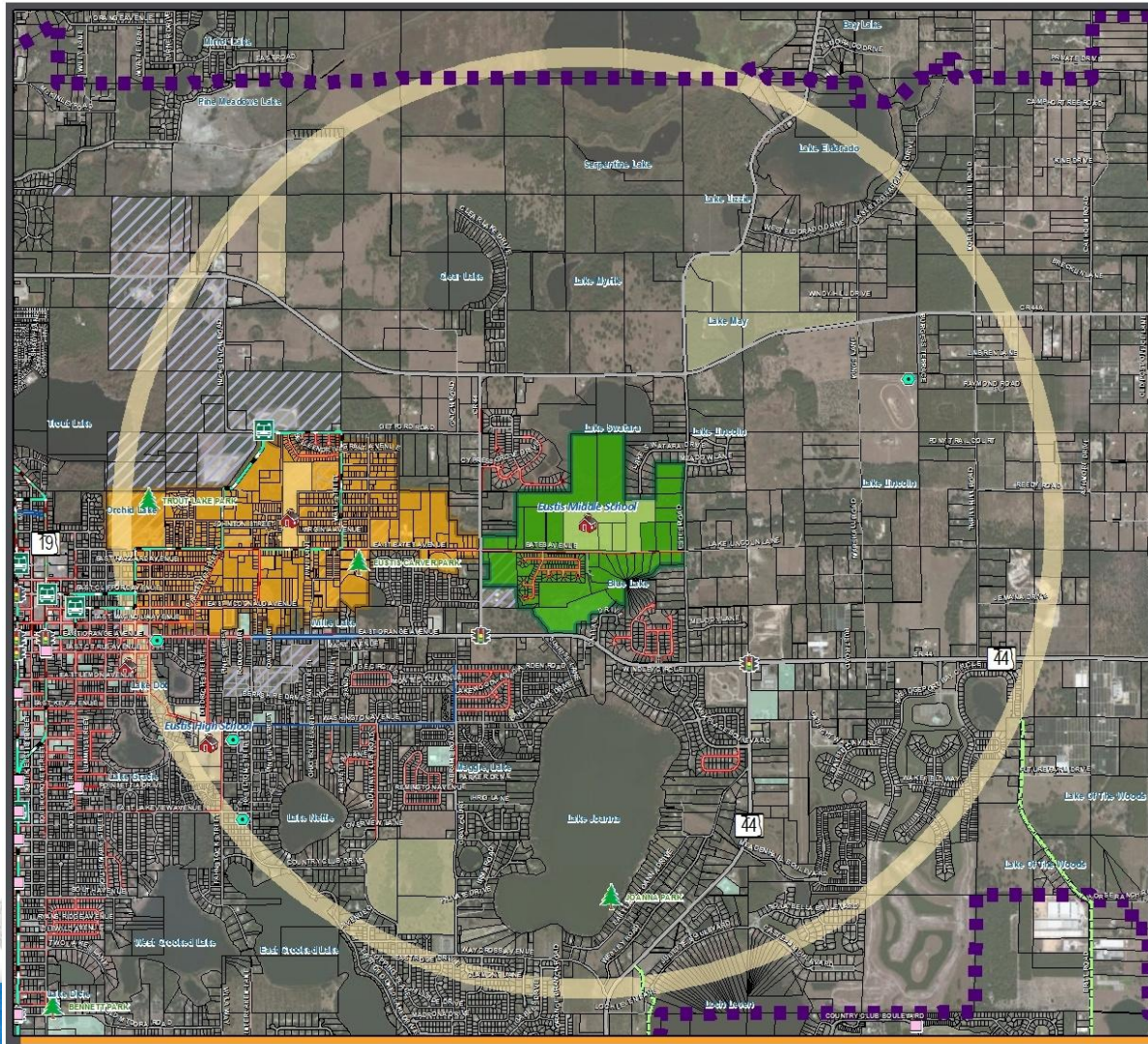
- ✓ Dismiss walkers first or hold to cross in one group if possible.
- ✓ Request new bike racks from FDOT (pending).



Eustis Middle School



Eustis Middle School: Existing Conditions Map



LEGEND

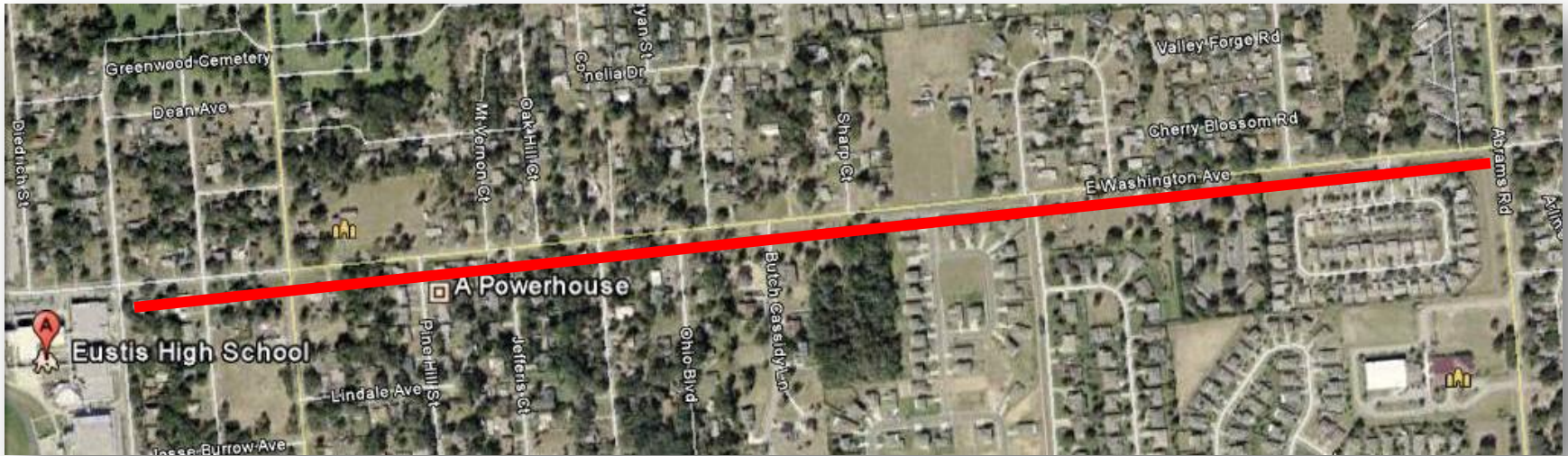
- SSATS Schools Studied
- Library
- 2008- March 2011 Pedalcycle/Pedestrian Crash Locations (School Pickup/Dropoff Times)
Note: No Crashes Occur within the Eustis Middle School 2-Mile Buffer
- Bicyclist Involved
- Pedestrian Involved
- Road System**
 - Major Roads
 - Local Roads
- Other Layers**
 - Existing Sidewalks
 - LakeXpress Bus Route
 - Eustis Middle School Attendance Zone
 - Middle School Special Exception Area
 - Parent Responsibility Zone
 - 2-Mile Buffer of Eustis Middle School
 - Parcels
 - School Property - Public
 - Church Owned Property
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Source: FDOT, FDLE, Lake County Schools, Hobe Design, Inc, and TransSystems
This map is intended for planning purposes only



Planned (Funded) Projects

Washington Ave Sidewalk (South Side)



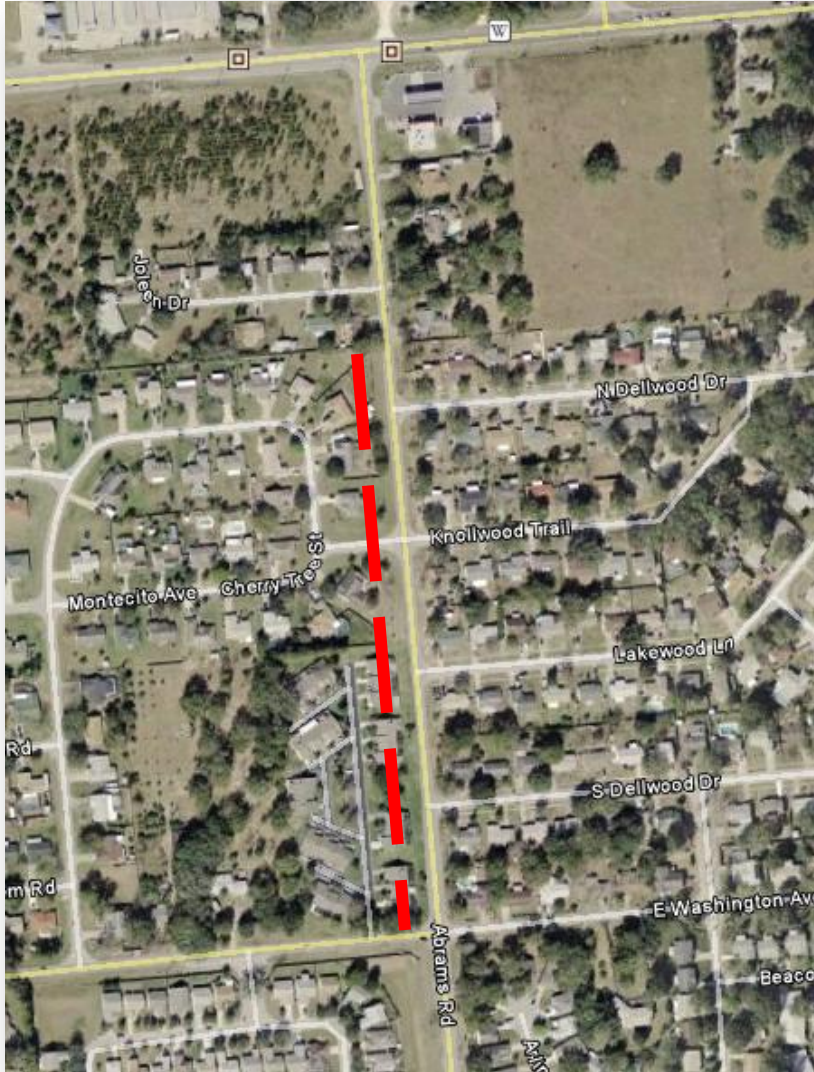
Project Details:

Using SRTS funding, the City recently constructed a sidewalk along the south side of Washington Avenue from the high school to Abrams Road. This needed facility will serve many students and area residents.



Planned (Funded) Projects

Abrams Rd 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.
- ✓ Plans indicate several crossings to connect to the neighborhood on the east side of Abrams Road.
- ✓ Abrams Road has a 30 MPH speed limit.
- ✓ The terrain creates areas of reduced vertical sight distance near some of the planned crossings.
- ✓ Most students living north of Washington Avenue and west of Abrams Road will exit their neighborhood onto the north side of Washington Avenue.
- ✓ There is a 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.

Planned (Funded) Projects

Abrams Rd Sidewalk (West Side)



Recommendations:

- ✓ Continue to pursue the eventual connection of the sidewalk to Orange Avenue (Priority Project).
- ✓ 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 (potential right of way limitations in some areas, see Recommended Project listings).





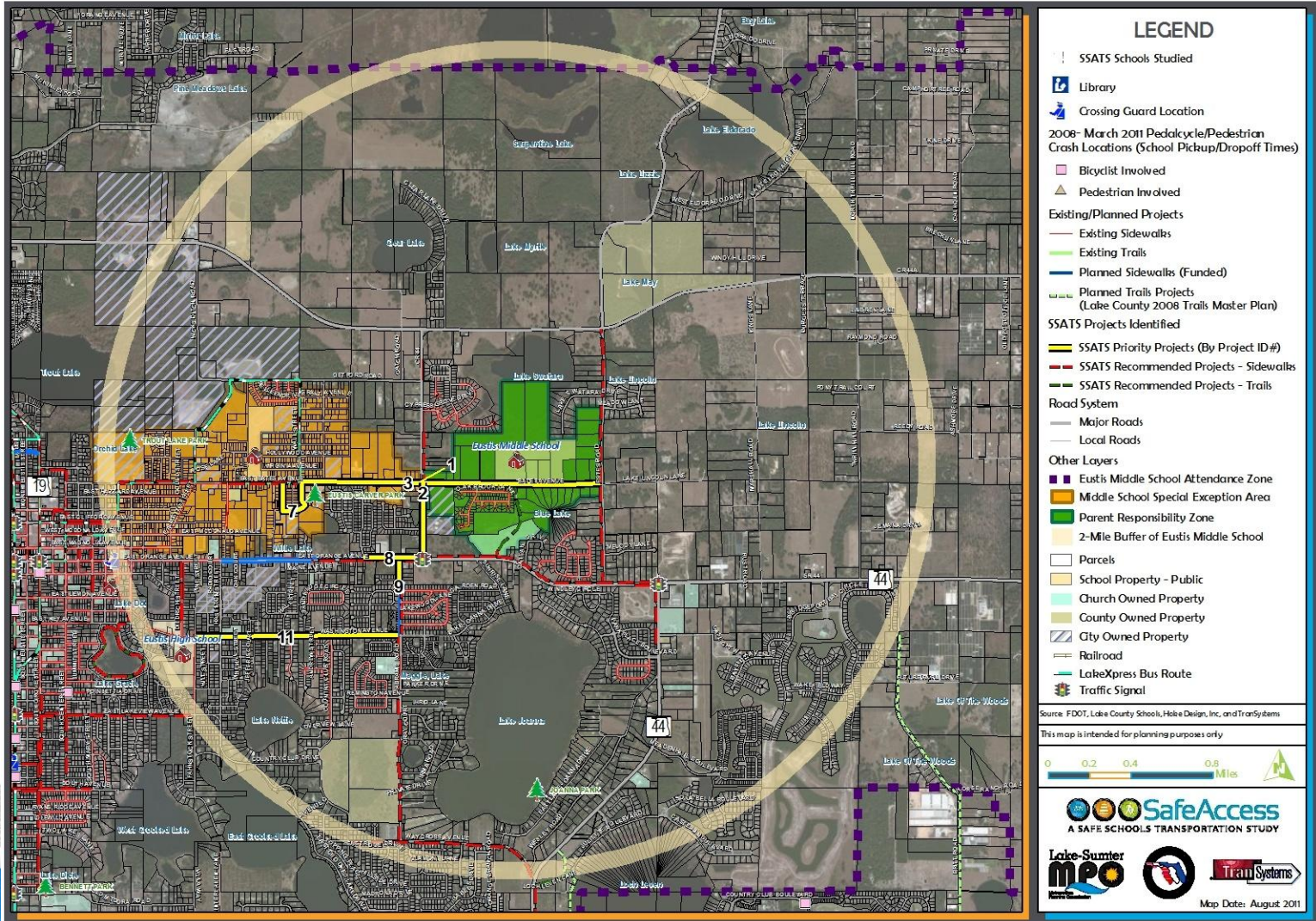
Findings:

- ✓ 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.
- ✓ Many high school students were observed crossing Orange Avenue at Diedrich Street.

Recommendations:

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

Eustis Middle School: Transportation Access Master Plan



Eustis Middle School (SSATS Recommended Projects)

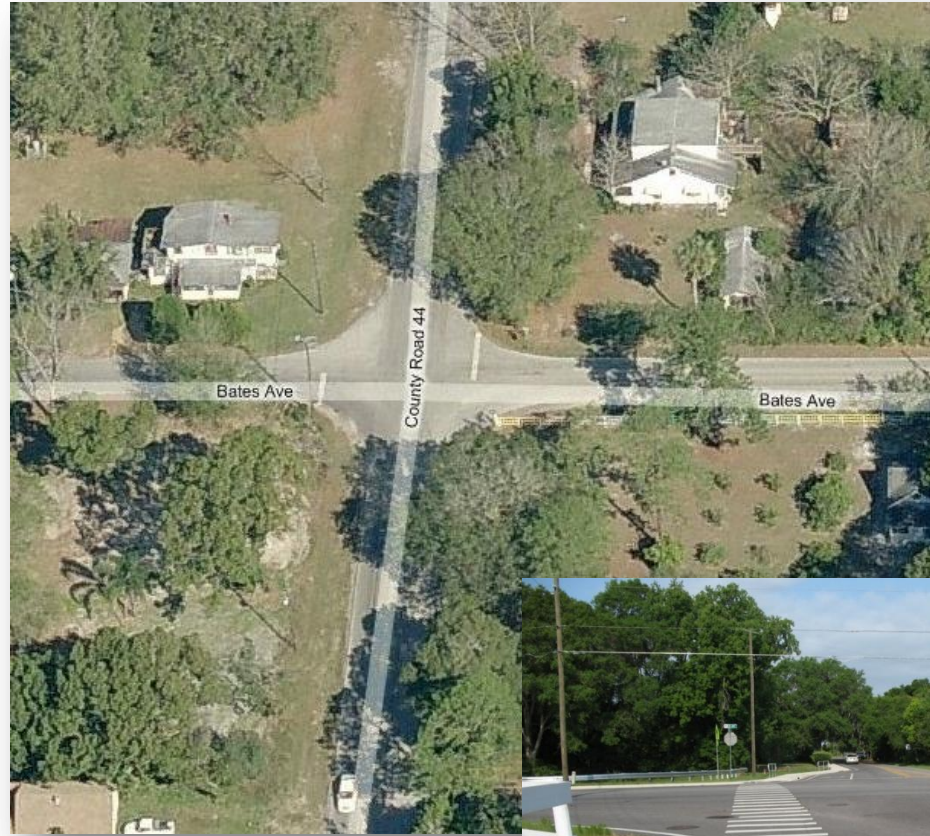
PROJECT MAP ID#	Project Type	Street Name / Title	Side	Starting Point	Stopping Point	Status	Eustis Middle
1	Streetscape Improv.	Bates Ave. / C.R 44 Crosswalk	Intersection	n/a	n/a	Priority	PRIORITY #1
3	Sidewalk Placement	Bates Ave.	North	Estes Road	Wall Street	Priority	PRIORITY #2
7	Sidewalk Connection	Carver Park Connection	n/a	n/a	n/a	Priority	PRIORITY #3
2	Sidewalk Placement	C.R 44	East	Bates Ave.	Orange Ave.	Priority	PRIORITY #4
8	Sidewalk Placement	Orange Ave.	North	Cricket Hollow Lane	C.R 44	Priority	PRIORITY #5
9	Sidewalk Placement	Abrams Road	West	Orange Ave.	Joleen Drive	Priority	PRIORITY #6
11	Sidewalk Placement	Washington Ave.	North	Fahnstock St.	Abrams Road	Priority	PRIORITY #7

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



Findings:

- ✓ The County recently constructed sidewalk along the south side of Bates Road that included a crosswalk over C.R. 44.
- ✓ C.R. 44 has a posted speed limit of 55 mph with a speed limit of 25 mph during school travel times.
- ✓ The crosswalk location may give the impression that there is a four-way stop at this intersection.
- ✓ Sidewalk users may feel that they are safe in a crosswalk.
- ✓ Due to crosswalk location (including turn lanes), sidewalk users are exposed to traffic for a long period of time.



Recommendations:

- ✓ Review crossing safety of the C.R. 44 and Bates Avenue intersection to see if a signal with pedestrian features is warranted.
- ✓ If a signal is not warranted, consider the use of a motion activated warning system.
www.crossalert.com

Interim measures:

- ✓ Reduce speed limit on C.R. 44.
- ✓ Relocate crosswalk to allow for shorter pedestrian exposure.
- ✓ Relocate crosswalk to allow for shorter pedestrian exposure.
- ✓ Add stop signs/caution signs for sidewalk users.



Findings:

- ✓ Curtright 9th Grade Campus and Eustis Middle School are both located on the north side of Bates Avenue.
- ✓ Sidewalks are located along the south side of Bates Avenue from Estes Road to Wall Street. There are no sidewalks on the north side of the road in this section.
- ✓ This section of Bates Avenue is maintained by the County.

Recommendation:

- ✓ Construct sidewalks on the north side of Bates Avenue from Estes Road to Wall Street.





Bates Avenue Right of Way (ROW)

Potential Opportunities:

- ✓ Sidewalk infill will encourage students to cross at designated crossings.
- ✓ Will also serve Curtright Center students.
- ✓ Improved streetscape may encourage walkers and feelings of safety.
- ✓ Increased access to parks and community connectivity.
- ✓ Better access to public transportation.

Potential Constraints:

- ✓ Narrow right-of-way and potential difficult title documentation.
- ✓ Need to determine community buy-in.

Potential Construction Costs:

LONG RANGE ESTIMATE - BATES AVENUE SIDEWALK, EUSTIS FLORIDA

3. FROM ESTES RD TO WALL ST.

7723

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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	\$37,978.33	\$37,978.33	\$40,834.88	\$40,834.88
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$25,000.00	\$25,000.00	\$28,750.00	\$28,750.00	\$28,822.50	\$28,822.50	\$30,826.08	\$30,826.08	\$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	\$1,225.04	\$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)	4.291	SY	\$27.50	\$117,990.28	\$29.43	\$128,249.80	\$31.48	\$135,087.07	\$33.69	\$144,543.16	\$36.05	\$154,861.19
110-1-2	CLEARING & GRUBBING	0.89	AC	\$13,269.00	\$11,761.80	\$14,196.78	\$12,595.12	\$15,190.53	\$13,466.08	\$16,253.87	\$14,408.71	\$17,391.64	\$15,417.31
120-1	REGULAR EXCAVATION	1,430	CY	\$7.43	\$10,828.28	\$7.95	\$11,370.12	\$8.51	\$12,166.02	\$9.10	\$13,017.64	\$9.74	\$13,928.88
120-8	EMBANKMENT	1,430	CY	\$10.38	\$14,845.32	\$11.11	\$15,884.49	\$11.88	\$18,098.41	\$12.72	\$18,186.16	\$13.61	\$19,458.19
570- 1	SODDING	4.291	SY	\$2.50	\$10,728.39	\$2.68	\$11,477.24	\$2.88	\$12,280.64	\$3.08	\$13,140.29	\$3.28	\$14,060.11
	SUB- TOTAL				\$237,950.06		\$254,606.56		\$272,429.02		\$291,499.06		\$311,903.99
	CONTINGENCY (15%)				\$35,692.51		\$38,190.98		\$40,864.35		\$43,724.86		\$46,785.60
	DESIGN FEES (10%)				\$27,364.26		\$29,279.75		\$31,329.34		\$33,522.39		\$35,868.96
	CEI FEES (10%)				\$30,100.88		\$32,207.73		\$34,462.27		\$36,874.63		\$39,455.85
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$273,642.57		\$292,797.55		\$313,293.38		\$335,223.91		\$358,689.59

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 is no pedestrian connection between the Cricket Hollow neighborhood and Bates Avenue.
- ✓ Planned sidewalks on Orange Avenue will provide an indirect travel route, if constructed.
- ✓ The City of Eustis has constructed boardwalks on Willie Lake and plans to continue enhancing connectivity.



Recommendations:

- ✓ The City should continue to review the potential to link this neighborhood to Carver Park and Curtright 9th Grade Center.
- ✓ Using public right of way, a student living at the back of the subdivision would need to walk over 1.5 miles to school. A cut-through using the park would shorten the trip to just over 0.5 miles.

Potential Construction Costs (Option A):

LONG RANGE ESTIMATE - CARVER PARK CONNECTION (OPTION A), EUSTIS FLORIDA

7A

1341

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	\$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
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$11,000.00	\$11,000.00	\$11,770.00	\$11,770.00	\$12,593.90	\$12,593.90	\$13,475.47	\$13,475.47	\$14,418.76	\$14,418.76
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	\$5,360.00	\$5,360.00	\$5,724.50	\$5,724.50	\$6,126.22	\$6,126.22	\$6,553.98	\$6,553.98
522-1	CONCRETE SIDEWALK, 4" THICK (5' WIDE)	745	SY	\$81.33	\$60,590.85	\$87.02	\$64,832.21	\$93.11	\$69,370.46	\$99.83	\$74,226.40	\$106.81	\$79,422.24
110-1-2	CLEARING & GRUBBING	0.15	AC	\$13,266.00	\$2,042.20	\$14,196.76	\$2,185.25	\$15,190.53	\$2,338.21	\$16,253.87	\$2,501.99	\$17,391.84	\$2,677.02
120-1	REGULAR EXCAVATION	248	CY	\$7.43	\$1,845.12	\$7.95	\$1,974.27	\$8.51	\$2,112.47	\$9.10	\$2,260.35	\$9.74	\$2,418.57
120-6	EMBANKMENT	248	CY	\$10.38	\$2,577.70	\$11.11	\$2,758.14	\$11.88	\$2,951.21	\$12.72	\$3,157.79	\$13.81	\$3,378.84
570- 1	SODDING	745	SY	\$5.00	\$3,725.00	\$5.35	\$3,985.75	\$5.72	\$4,264.75	\$6.13	\$4,563.29	\$6.55	\$4,882.72
	SUB- TOTAL				\$112,780.95		\$120,675.62		\$129,122.91		\$138,161.52		\$147,832.82
	CONTINGENCY (15%)				\$16,917.14		\$18,101.34		\$19,368.44		\$20,724.23		\$22,174.92
	DESIGN FEES (10%)				\$12,969.81		\$13,877.70		\$14,849.13		\$15,888.57		\$17,000.77
	CEI FEES (10%)				\$14,266.79		\$15,265.47		\$16,334.05		\$17,477.43		\$18,700.85
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$129,698.09		\$138,776.96		\$148,491.35		\$158,885.74		\$170,007.74

ESTIMATE BASIS AND ASSUMPTIONS:

- Estimate does not include utility relocation costs.
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- 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

Potential Construction Costs (Option B):

LONG RANGE ESTIMATE - CARVER PARK CONNECTION (OPTION B), EUSTIS FLORIDA

7b

566

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	\$7,000.00	\$7,000.00	\$7,490.00	\$7,490.00	\$8,014.30	\$8,014.30	\$8,575.30	\$8,575.30	\$9,175.57	\$9,175.57
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$4,000.00	\$4,000.00	\$4,280.00	\$4,280.00	\$4,579.60	\$4,579.60	\$4,900.17	\$4,900.17	\$5,243.18	\$5,243.18
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)	314	SY	\$81.33	\$25,573.77	\$87.02	\$27,363.93	\$93.11	\$29,279.41	\$99.83	\$31,328.96	\$106.81	\$33,521.99
110-1-2	CLEARING & GRUBBING	0.06	AC	\$13,268.00	\$881.99	\$14,196.76	\$922.33	\$15,190.53	\$988.90	\$16,253.87	\$1,055.98	\$17,391.84	\$1,129.90
120-1	REGULAR EXCAVATION	105	CY	\$7.43	\$778.77	\$7.95	\$833.29	\$8.51	\$891.82	\$9.10	\$954.03	\$9.74	\$1,020.81
120-8	EMBANKMENT	105	CY	\$10.38	\$1,087.98	\$11.11	\$1,164.14	\$11.88	\$1,245.83	\$12.72	\$1,332.82	\$13.81	\$1,426.12
570- 1	SODDING	314	SY	\$5.00	\$1,572.22	\$5.35	\$1,682.28	\$5.72	\$1,800.04	\$6.13	\$1,926.04	\$6.55	\$2,060.88
	SUB-TOTAL				\$56,874.73		\$60,855.97		\$65,115.88		\$69,674.00		\$74,551.17
	CONTINGENCY (15%)				\$8,531.21		\$9,128.39		\$9,767.38		\$10,451.10		\$11,182.68
	DESIGN FEES (10%)				\$6,540.59		\$6,998.44		\$7,488.33		\$8,012.51		\$8,573.39
	CEI FEES (10%)				\$7,194.65		\$7,698.28		\$8,237.16		\$8,813.76		\$9,430.72
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$65,405.94		\$69,984.36		\$74,883.27		\$80,125.09		\$85,733.85

ESTIMATE BASIS AND ASSUMPTIONS:

- Estimate does not include utility relocation costs.
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- 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 along C.R. 44 from Orange Avenue to Bates Avenue.

Recommendations:

- ✓ Construct a sidewalk on the east side of C.R. 44 from Orange Avenue to Bates Avenue with a crosswalk over C.R. 44 at Orange Avenue.
- ✓ If possible, extend this sidewalk north across Bates Avenue to C.R. 44A to serve students living in the subdivision on the east side of the road.



Potential Construction Costs:

LONG RANGE ESTIMATE - C.R. 44 (EAST SIDE), EUSTIS FLORIDA

2. FROM BATES AVE TO ORANGE AVE.

1912

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	\$24,500.98	\$24,500.98	\$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	\$18,375.65	\$18,375.65	\$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	\$6,125.22	\$6,125.22	\$6,553.98	\$6,553.98
522-1	CONCRETE SIDEWALK, 4" THICK (5' WIDE)	1,062	SY	\$81.33	\$86,390.53	\$87.02	\$92,437.87	\$93.11	\$98,908.52	\$99.63	\$105,832.12	\$106.61	\$113,240.37
110-1-2	CLEARING & GRUBBING	0.22	AC	\$13,268.00	\$2,911.69	\$14,198.76	\$3,115.73	\$15,190.53	\$3,333.83	\$16,253.87	\$3,567.19	\$17,391.84	\$3,816.90
120-1	REGULAR EXCAVATION	354	CY	\$7.43	\$2,630.77	\$7.95	\$2,814.92	\$8.51	\$3,011.97	\$9.10	\$3,222.51	\$9.74	\$3,448.40
120-6	EMBANKMENT	354	CY	\$10.38	\$3,675.29	\$11.11	\$3,932.56	\$11.88	\$4,207.84	\$12.72	\$4,502.39	\$13.61	\$4,817.55
570- 1	SODDING	1,062	SY	\$5.00	\$5,311.11	\$5.35	\$5,682.89	\$5.72	\$6,080.89	\$6.13	\$6,506.34	\$6.55	\$6,961.79
	SUB- TOTAL				\$151,919.60		\$162,563.97		\$173,932.75		\$186,108.04		\$199,135.60
	CONTINGENCY (15%)				\$22,787.94		\$24,383.10		\$26,089.91		\$27,916.21		\$29,870.34
	DESIGN FEES (10%)				\$17,470.75		\$18,693.71		\$20,002.27		\$21,402.42		\$22,900.59
	CEI FEES (10%)				\$19,217.83		\$20,563.08		\$22,002.49		\$23,542.67		\$25,190.65
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$174,707.54		\$186,937.06		\$200,022.66		\$214,024.24		\$229,005.94

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 along Orange Avenue from Cricket Hollow Lane to C.R. 44.
- ✓ The City has submitted an application for SRTS funding for sidewalks that, if constructed, will end at the west terminus of Cricket Hollow Lane.

Recommendations:

- ✓ This project should be constructed after the sidewalk along the east side of C.R. 44 between Orange Avenue and Bates Avenue is constructed (Project 2).
- ✓ If warranted, a signalized crossing at Abrams Road and Orange Avenue would provide a crossing for students living on the south side of Orange Avenue.



Potential Construction Costs:

LONG RANGE ESTIMATE - ORANGE AVE (SOUTHSIDE), EUSTIS FLORIDA

8. FROM CRICKET HOLLOW LANE TO C.R. 44

1540

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	\$18,000.00	\$18,000.00	\$17,120.00	\$17,120.00	\$18,318.40	\$18,318.40	\$19,600.89	\$19,600.89	\$20,972.74	\$20,972.74
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$12,000.00	\$12,000.00	\$12,840.00	\$12,840.00	\$13,738.80	\$13,738.80	\$14,700.52	\$14,700.52	\$15,729.55	\$15,729.55
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)	850	SY	\$91.33	\$69,682.33	\$97.02	\$74,453.10	\$93.11	\$79,864.81	\$96.83	\$85,241.35	\$106.81	\$91,208.24
110-1-2	CLEARING & GRUBBING	0.18	AC	\$13,286.00	\$2,345.35	\$14,198.76	\$2,509.53	\$15,190.53	\$2,685.20	\$16,253.87	\$2,873.16	\$17,391.64	\$3,074.28
120-1	REGULAR EXCAVATION	285	CY	\$7.43	\$2,118.93	\$7.95	\$2,267.25	\$8.51	\$2,425.96	\$9.10	\$2,595.78	\$9.74	\$2,777.48
120-6	EMBANKMENT	285	CY	\$10.38	\$2,980.22	\$11.11	\$3,167.44	\$11.88	\$3,389.16	\$12.72	\$3,626.40	\$13.61	\$3,880.25
570- 1	SODDING	850	SY	\$5.00	\$4,277.78	\$5.35	\$4,577.22	\$5.72	\$4,897.83	\$6.13	\$5,240.46	\$6.55	\$5,607.29
	SUB- TOTAL				\$125,284.61		\$134,054.54		\$143,438.35		\$153,479.04		\$164,222.57
	CONTINGENCY (15%)				\$18,792.69		\$20,108.18		\$21,515.75		\$23,021.86		\$24,633.39
	DESIGN FEES (10%)				\$14,407.73		\$15,416.27		\$16,495.41		\$17,650.09		\$18,885.60
	CEI FEES (10%)				\$15,848.50		\$16,957.90		\$18,144.95		\$19,415.10		\$20,774.16
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$144,077.30		\$154,162.72		\$164,954.11		\$176,500.89		\$188,855.96

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.
- ✓ 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 signal with pedestrian crossing features over Orange Avenue in this location.



Potential Construction Costs:

LONG RANGE ESTIMATE - ABRAMS (WEST), EUSTIS FLORIDA

9. FROM ORANGE AVE TO JOLEEN DR.

606

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	\$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	\$31,348.82	\$99.63	\$33,543.02	\$106.61	\$35,891.04
110-1-2	CLEARING & GRUBBING	0.07	AC	\$13,268.00	\$922.91	\$14,196.76	\$987.52	\$15,190.53	\$1,056.84	\$16,253.87	\$1,130.81	\$17,391.64	\$1,209.75
120-1	REGULAR EXCAVATION	112	CY	\$7.43	\$833.81	\$7.96	\$892.18	\$8.51	\$954.63	\$9.10	\$1,021.46	\$9.74	\$1,092.96
120-6	EMBANKMENT	112	CY	\$10.38	\$1,164.87	\$11.11	\$1,246.41	\$11.88	\$1,333.66	\$12.72	\$1,427.01	\$13.61	\$1,526.90
570- 1	SODDING	337	SY	\$5.00	\$1,683.33	\$5.36	\$1,801.17	\$5.72	\$1,927.25	\$6.13	\$2,062.16	\$6.55	\$2,206.51
	SUB- TOTAL				\$60,986.02		\$65,255.04		\$69,822.90		\$74,710.50		\$79,940.24
	CONTINGENCY (15%)				\$9,147.90		\$9,788.26		\$10,473.43		\$11,205.58		\$11,991.04
	DESIGN FEES (10%)				\$7,013.39		\$7,504.33		\$8,029.63		\$8,591.71		\$9,193.13
	CEI FEES (10%)				\$7,714.73		\$8,254.76		\$8,832.60		\$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:

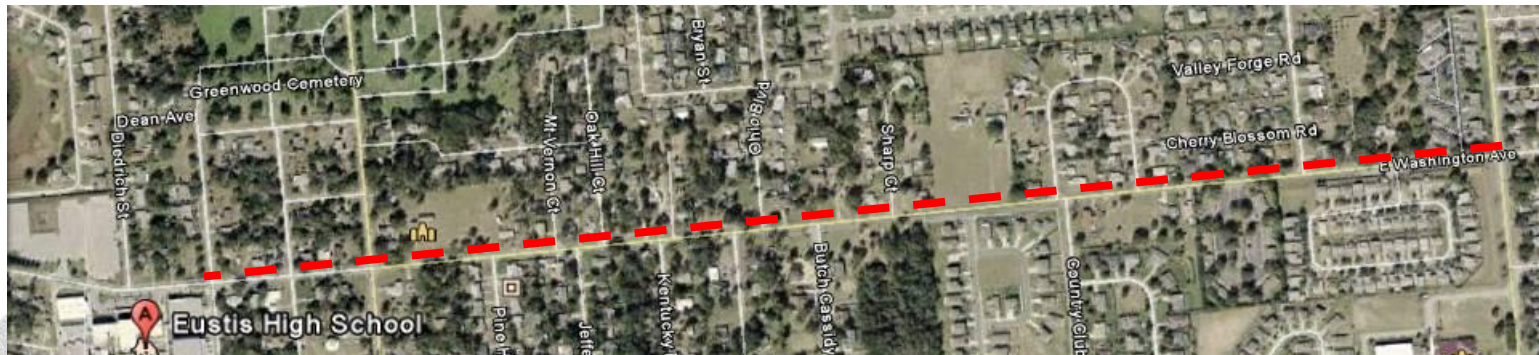
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Estimate includes maintenance of traffic costs (15% of construction costs).
- Regular excavation & embankment to 1 ft depth
- No R/W Impact
- No specialized landscaping (beyond sodding)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

Findings:

- ✓ Students living north of Washington Avenue may cross the 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 (5) 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.



SSATS Priority Project #7

Washington Avenue Sidewalk (North Side)

Fahnstock Street to Abrams Road - Project Detail

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	\$29,980.00	\$29,980.00	\$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	\$24,810.00	\$24,810.00	\$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	\$1,310.80	\$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	\$6,350.00	\$6,350.00	\$6,724.50	\$6,724.50	\$8,125.22	\$8,125.22	\$8,563.98	\$8,563.98
522-1	CONCRETE SIDEWALK, 4" THICK (5' WIDE)	2,888	SY	\$40.00	\$115,511.11	\$42.80	\$123,506.89	\$46.80	\$132,248.07	\$49.00	\$141,506.08	\$52.43	\$151,411.50
110-1-2	CLEARING & GRUBBING	0.60	AC	\$13,268.00	\$7,916.33	\$14,196.78	\$8,470.47	\$15,190.53	\$9,063.41	\$16,253.87	\$9,897.84	\$17,391.84	\$10,376.89
120-1	REGULAR EXCAVATION	963	CY	\$7.43	\$7,152.06	\$7.95	\$7,652.71	\$8.51	\$8,188.40	\$9.10	\$8,761.58	\$9.74	\$9,374.90
120-6	EMBANKMENT	963	CY	\$10.38	\$9,991.71	\$11.11	\$10,691.13	\$11.88	\$11,439.51	\$12.72	\$12,240.28	\$13.81	\$13,097.10
670- 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		\$266,665.45		\$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		\$29,463.86		\$31,526.34		\$33,733.18		\$36,094.50
	TOTAL ESTIMATED CONSTRUCTION COST (2011) :				\$250,330.20		\$267,853.32		\$286,603.05		\$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

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.

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