

Safe Routes to School

2014 Infrastructure Plans



WORK ORDER #V-25

FINAL REPORT



Kimley»Horn

August 2015

Safe Routes to School 2014 Infrastructure Plans

Prepared for:

Miami-Dade County Metropolitan Planning Organization



Prepared by:

Kimley-Horn and Associates, Inc.



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August 2015

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1.0 INTRODUCTION

This report summarizes the development of Safe Routes to School (SRTS) infrastructure improvement plans for select K-8 public schools in Miami-Dade County. These improvement plans were developed as part of an ongoing effort by Miami-Dade County Public Schools (MDCPS), in coordination with the Miami-Dade County Public Works and Waste Management Department (PWWMD) and the Miami-Dade Metropolitan Planning Organization (MPO) to encourage children, especially in grades K-8, to walk and bike to school by making walking and biking to school safer and more appealing.

The SRTS programs also address the safety needs of children who are already walking or biking in less than ideal conditions. Additional benefits of the SRTS program include reducing traffic congestion near schools and reducing childhood obesity and inactivity. The SRTS improvements can also improve safety, mobility options, and provide opportunities for healthy lifestyles not only for children but also for communities in general. The infrastructure improvements are supplemented by the efforts of the University of Miami's WalkSafe™ program and MDCPS that focus on student education on the benefits and encouragement of walking and biking to school. Miami-Dade County's comprehensive SRTS program utilize a combination of education, encouragement, engineering, and enforcement strategies to achieve program benefits.

There are approximately 220 elementary public schools in Miami-Dade County. Every year, the MDCPS develops SRTS plans and seeks funding for over 10 schools. Since the inception of the County's SRTS program in the early 2000s, SRTS infrastructure improvement plans have been developed for over 85 elementary and K-8 schools. These plans are at various stages of implementation (see Appendix A).

The *Safe Routes to School 2014 Infrastructure Plans* study developed SRTS infrastructure plans for a total of 12 priority K-8 schools. These priority schools were selected by MDCPS Community Traffic Safety Team (CTST) based on a county-wide prioritization of K-8 schools, which ranked schools with the greatest need based on several factors including the number of bicycle-pedestrian crashes, the number of juvenile bicycle-pedestrian crashes, the percent of students already walking to school, and the vehicle counts in the immediate area. The SRTS infrastructure improvement plans for the 12 priority schools were submitted for Transportation Alternatives Program (TAP) funding. The TAP funding is distributed through a competitive process managed by the Florida Department of Transportation's (FDOT).

1.1 Study Goals

The goals of the *Safe Routes to School 2014 Infrastructure Plans* study are listed below:

- Develop SRTS infrastructure improvement plans for 10 priority schools; and,
- Prepare the FDOT Infrastructure Funding Application for the priority schools.

1.2 Priority Schools

Table 1 lists the schools selected for SRTS improvements. The approximate locations of the schools are depicted in Figure 1. Overall, six selected schools are located within the City of Miami, two in Miami Gardens and one each in North Miami and Sweetwater. Nine are elementary schools, one is a K-8 community school and two are middle schools that were added due to their proximity to selected elementary schools. Sample photos illustrating pedestrian facilities in the vicinity of the schools are illustrated in this section.

Table 1: Selected Schools for SRTS Improvements

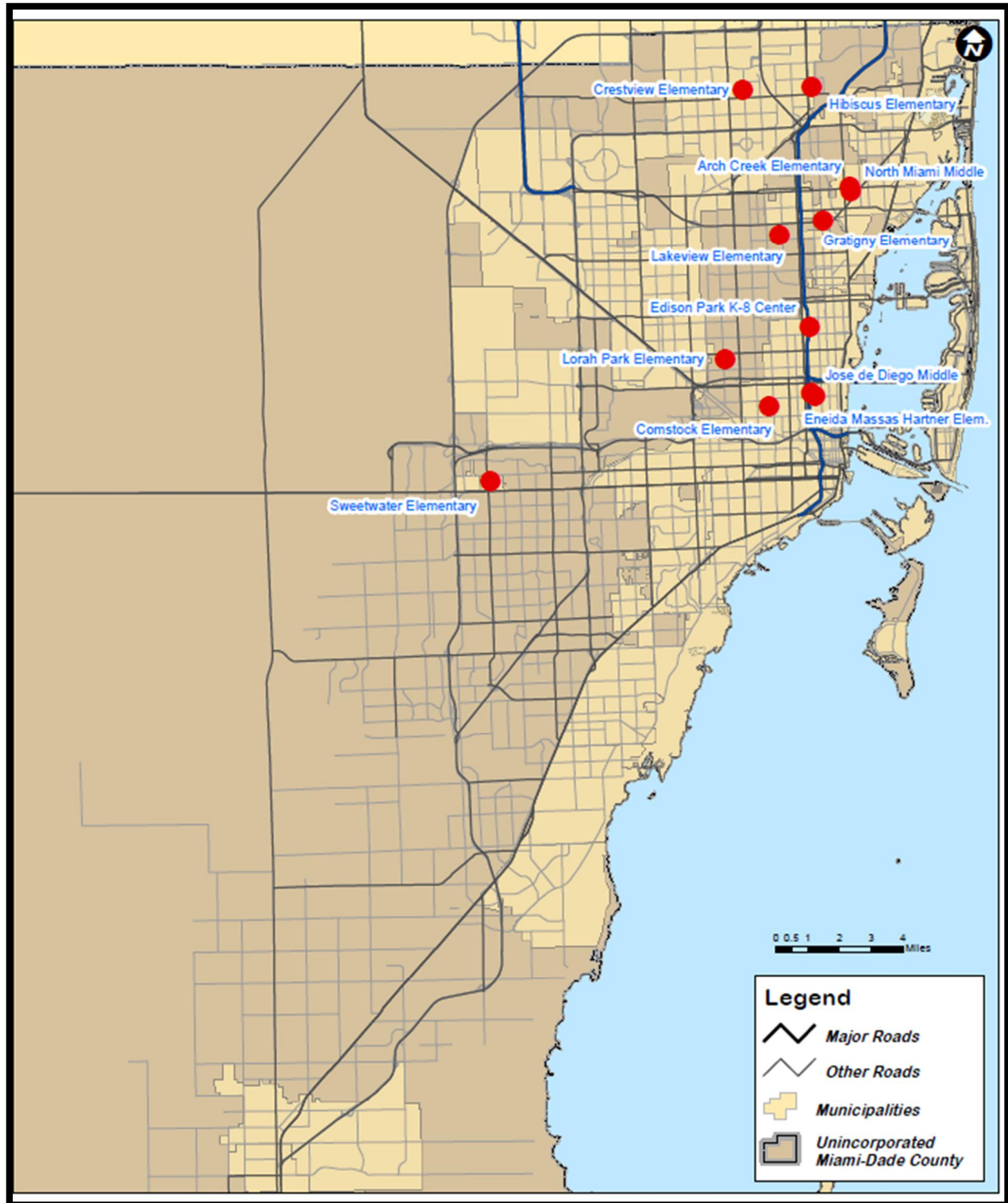
School	Address	Municipality
Arch Creek Elementary (including North Miami Middle School)	702 NE 137 Street	North Miami
Comstock Elementary	2420 NW 18 Avenue	Miami
Crestview Elementary	2201 NW 187 Street	Miami Gardens
Edison Park K-8 Center	500 NW 67 Street	Miami
Eneida Massas Hartner Elementary (including Jose De Diego Middle School)	401 NW 29 Street	Miami
Gratigny Elementary	11905 N Miami Avenue	Miami
Hibiscus Elementary	18701 NW 1 Avenue	Miami Gardens
Lakeview Elementary	1290 NW 115 Street	Miami
Lorah Park Elementary	5160 NW 31 Avenue	Miami
Sweetwater Elementary	10655 SW 4 Street	Sweetwater

1.3 Study Process

The study results are documented under the following chapters:

- Chapter 2 documents the development of SRTS recommendations;
- Chapter 3 documents the preparation of funding applications; and,
- Chapter 4 provides a summary of the study.

Figure 1: Location Map of Selected Schools



2.0 DEVELOPMENT OF SAFE ROUTES TO SCHOOL RECOMMENDATIONS

This chapter explains the development of SRTS plans for the selected schools. In general, street network within 0.5 miles of a school was evaluated to identify the SRTS improvements. While SRTS funding guidelines allow improvements within two miles of a school, improvements closer to a school generally have a greater benefit than improvements farther away from a school. Where needed, the study area was expanded beyond 0.5 miles.

The main steps involved in the identification of safe routes and infrastructure improvements are listed below.

- Develop study area maps depicting school location, attendance boundary, 0.5-mile radius, pedestrian and bicycle crashes, and signal locations.
- Review previously developed SRTS plans by PWWMD.
- Conduct field reviews to observe existing infrastructure, determine safe routes, and identify improvements.
- Meet with school staff to obtain input on the infrastructure improvement needs and routes used by student pedestrians and bicyclists.
- Submit preliminary improvements to MDCPS, PWWMD, FDOT, WalkSafe, and Miami-Dade MPO for review and input.

To develop SRTS infrastructure improvements, guidelines developed by the Miami-Dade MPO, FDOT, and National Committee for Safe Routes to School (NCSRTS) were reviewed. The documents referenced during the development of SRTS recommendations include:

- *Safe Routes to School Guide*, Pedestrian and Bicycle Information Center and National Center for Safe Routes to School, 2007;
- *Safe Ways to School Tool Kit*, University of Florida and Florida Department of Transportation;
- *Manual on Uniform Traffic Control Devices (MUTCD)*, Federal Highway Administration (FHWA), 2009;
- *FDOT's Safe Routes to School application and guidelines*;
- *PEDSAFE Guidelines by Pedestrian and Bicycle Information Center (PBIC) and FHWA*; and,
- *Pedestrian Safety Audit Guidelines by FHWA*.

2.1 Stakeholder Coordination

Meetings were conducted with school staff and stakeholder agencies to obtain input for the study and review draft recommendations. Miami-Dade Public School's CTST sub-committee served as the primary review and advisory committee for this study. The CTST consists of staff from prominent stakeholder agencies of the SRTS program, including the Miami-Dade MPO, MDCPS, PWWMD, University of Miami's

WalkSafe, and FDOT. Coordination with the Study Advisory Committee (SAC) included presentations and conference calls. Miami-Dade County's PWWMD staff reviewed draft recommendations and cost estimates, since the County is primarily responsible for the implementation of SRTS improvements.

Table 2 summarizes stakeholder coordination activities. Copies of PowerPoint presentations made during the CTST's meetings are included in Appendix B.

Table 2: SRTS Stakeholder Coordination

Date	Stakeholder(s)	Summary
9/17/2014	MDPS Community Traffic Safety Team Sub-Committee.	Approval of priority schools for 2014/15 funding applications.
10/28/2014	Meeting with school staff at Hibiscus Elementary and Edison Park K-8 Center.	Provide an overview SRTS program; obtain input on infrastructure improvement needs.
11/03/2014	Meeting with school staff at Crestview Elementary and Eneida Massas Hartner Elementary.	Provide an overview SRTS program; obtain input on infrastructure improvement needs.
11/13/2014	Meeting with school staff at Lorah Park Elementary and Comstock Elementary.	Provide an overview SRTS program; obtain input on infrastructure improvement needs.
11/17/2014	Meeting with school staff at Arch Creek Elementary and Gratigny Elementary.	Provide an overview SRTS program; obtain input on infrastructure improvement needs.
11/18/2014	Meeting with school staff at Sweetwater Elementary and Lakeview Elementary.	Provide an overview SRTS program; obtain input on infrastructure improvement needs.
1/14/2015	MDCPS Board Meeting.	Approval of priority schools for 2014/15 funding applications.
3/12/2015	MDCPS Community Traffic Safety Team Sub-Committee.	Review of draft SRTS recommendations.

2.2 Site Assessment and Proposed Safe Routes

The consultant performed field reviews to assess existing pedestrian facilities and potential unsafe conditions for student pedestrians in the vicinity of selected schools. These field reviews also included the identification of residential areas within the attendance boundary to determine the most logical safe routes. Where necessary, the field review boundary was extended beyond the typical 0.5-mile radius to address the need for improvements in areas with a concentration of residential developments or student walkers. Such areas were identified based on the input provided by school staff. The five-year pedestrian and bicycle crash data (2009-2013), 'where students live' information provided by MDCPS, locations of traffic control devices, traffic counts, aerial photography, and Miami-Dade County's SRTS maps were also used to identify potential safe routes. The maps used during the site assessment are included as Appendix C.

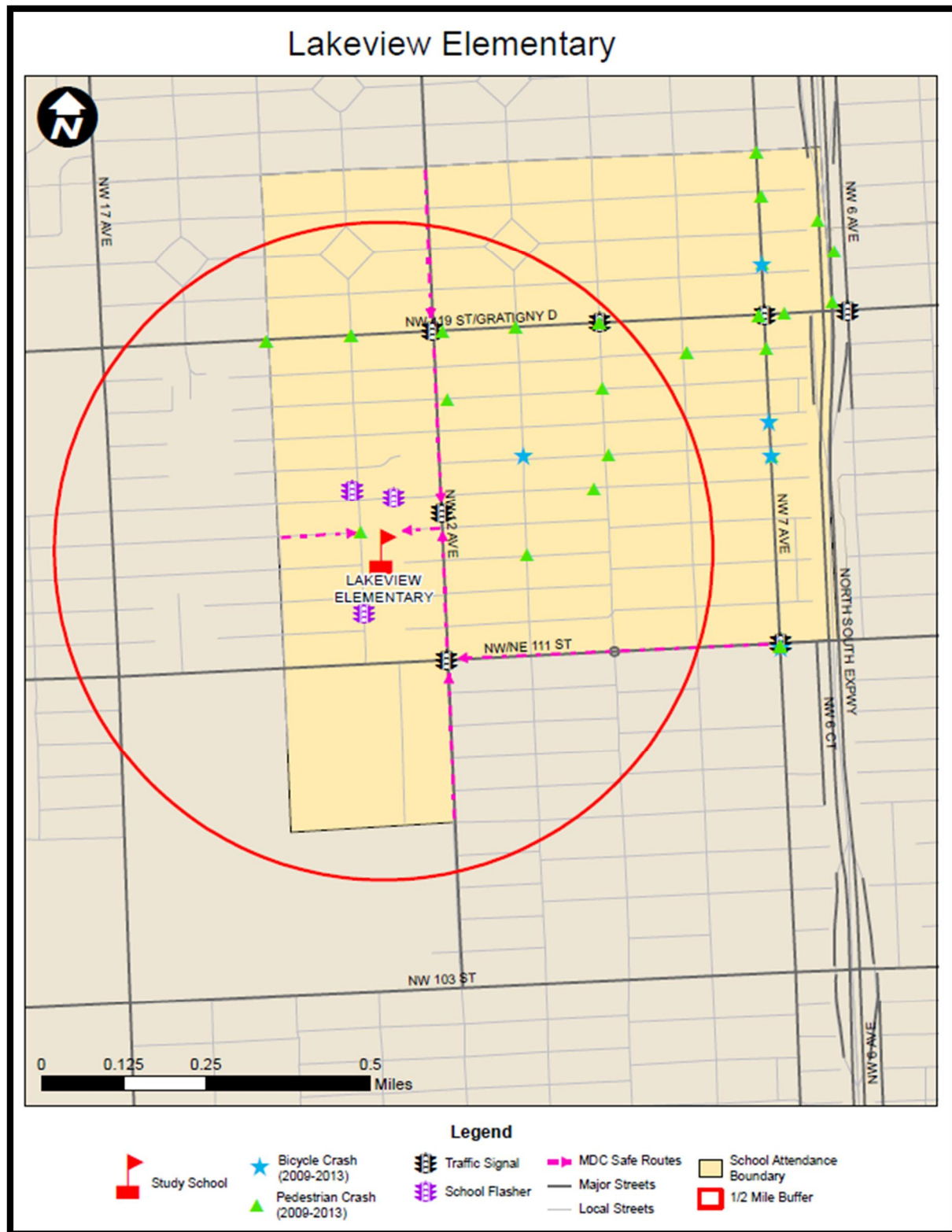
Some of the factors considered when identifying safe routes include:

- Route Directness – safe routes that provide the most direct (shortest) connections between the origins and destinations are preferable since distance is a major factor in the determination of walking versus other travel modes;
- Potential Student Population Served – to increase the return on investment, safe routes were typically identified to serve large residential areas;
- Input from School Staff;
- Existing Traffic Control Devices – to provide safe crossing of streets, existing signalized crossings were taken into consideration;
- Traffic Volume, Number of Lanes, and Speed Limit – where possible, an attempt was made to keep the safe routes away from major, high speed arterials;
- Crash Data – used to identify roadways with a history of safety risks for pedestrians and bicyclists;
- Surrounding Land Uses and Potential Risk Elements – when safe routes were identified, an attempt was made to address pedestrian facility needs of nearby pedestrian trip generators, such as public parks where feasible; on the contrary, safe routes were generally not recommended along streets where predominant land uses are light industrial, auto repair stores, and the like; and,
- Right-of-Way Availability – because right-of-way acquisition is not typically funded through SRTS grants, safe routes were not proposed along streets where right-of-way acquisition is needed.

In addition to the pedestrian specific improvements, the need for on-site bike racks was identified based on the conversations with school staff.

The proposed SRTS plans and type of infrastructure improvement needs are included in Appendix D.

Figure 2: Example of Existing Conditions Data Mapping



Arch Creek Elementary

Location: NE 6 Avenue and NE 131 Street



Improvement: Restripe worn pavement markings.

Location: NE 7 Avenue and NE 136 Street



Improvement: Install ladder type crosswalk markings.

Location: NE 6 Avenue and NE 131 Street



Improvement: Upgrade pedestrian signal features.

Location: NE 7 Avenue and NE 136 Street



Improvement: Upgrade curb ramps to meet ADA requirements.

Comstock Elementary

Location: NW 17 Avenue and NW 24 Street



Improvement: Convert existing standard crosswalk to ladder type crosswalk on the east leg.

Location: NW 23 Street between NW 18 Court and NW 18 Avenue



Improvements: Upgrade pedestrian signal features and pedestrian ramps.

Location: NW 17 Avenue and NW 21 Street



Improvements: Install ladder type crosswalk and upgrade curb ramps to meet ADA requirements.

Location: NW 18 Avenue and NW 23 Street



Improvements: Install new curb ramp with detectable warning surface; install crosswalk pavement markings.

Crestview Elementary

Location: NW 19 Avenue and NW 187 Street



Improvements: Add ladder type crosswalks and detectable warning surfaces.

Location: NW 22 Avenue and NW 193 Terrace



Improvements: Add ladder type crosswalks and detectable warning surfaces.

Location: NW 22 Avenue between NW 187 Street and NW 188 Terrace



Improvements: Replace school crossing signs at the signalized crossing with fluorescent green signs.

Location: NW 22 Avenue and NW 195 Street



Improvements: Add detectable warning pads at NW, SW, and NE corners; add ladder type crosswalk on the east and west legs.

Edison Park K-8 Center

Location: NW 62 Street and NW 2 Avenue



Improvements: Replace existing school crossing signs with fluorescent green signs on the NE, NW, and SE corners.

Location: N 67 Street and N Miami Avenue



Improvements: Upgrade pedestrian signal features and crosswalks.

Location: NW 64 Street and NW 2 Place



Improvement: Reconstruct pedestrian access ramps.

Location: NW 71 Street and NW 5 Place



Improvements: Add detectable warning surfaces and refurbish crosswalks.

Eneida Massas Hartner Elementary

Location: NW 5 Avenue and NW 31 Street



Improvements: Refurbish crosswalk on the east leg; replace existing school crossing signs with fluorescent green signs.

Location: NW 2 Avenue between NW 31 Street and NW 32 Street



Improvements: Replace existing overhead school crossing signs with fluorescent green signs; install no parking signs to prohibit parking near crosswalk.

Location: NW 5 Avenue and NW 29 Street



Improvements: Refurbish curb ramps to ADA standard.

Location: NW 2 Avenue and NW 39 Street



Improvements: Refurbish crosswalk pavement markings.

Gratigny Elementary

Location: NE 2 Avenue and NE 122 Street



Improvements: Add detectable warning pads at all corners; add ladder type crosswalk at east and west legs.

Location: NE 2 Avenue and NE 121 Street



Improvements: Add detectable warning pads at NW and SW corners; replace school crossing sign with fluorescent green sign.

Location: NW 5 Avenue and NW 133 Street



Improvement: Provide paved pedestrian access ramps from sidewalk to crosswalks.

Location: NW 5 Avenue and NW 134 Street



Improvement: Add pedestrian ramp and detectable warning surface to sidewalk at all corners.

Hibiscus Elementary

Location: N Miami Avenue north of NE 185 Terrace



Improvements: Replace sign panels on school speed zone flasher with fluorescent green signs; trim overgrown tree.

Location: N Miami Avenue and NW 192 Street



Improvement: Add a crosswalk on the west leg.

Location: NE 188 Street between NW 1 Avenue and N Miami Avenue



Improvement: Install ladder type crosswalk pavement markings.

Location: N Miami Avenue north of NE 185 Terrace



Improvement: Replace the school speed zone sign per current MUTCD.

Lakeview Elementary

Location: NW 13 Avenue and NW 114 Street



Improvement: Add detectable warning pads.

Location: NW 12 Avenue and NW 115 Street



Improvements: Add detectable warning pads at all corners; refurbish crosswalk markings.

Location: NW 12 Avenue and NW 113 Terrace



Improvements: Add detectable warning pads at all corners; add ladder type crosswalks at east and west legs.

Location: NW 12 Avenue and NW 117 Street



Improvements: Add detectable warning pads at all corners; add ladder type crosswalk at east and west legs.

Lorah Park Elementary

Location: NW 52 Street and NW 31 Avenue



Improvements Refurbish crosswalk markings and add detectable warning pads at NW, SW, and NE corners.

Location: NW 51 Terrace and NW 31 Avenue



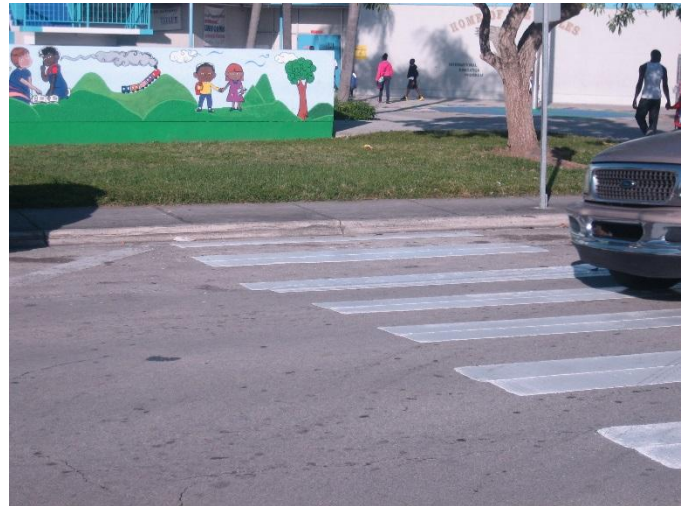
Improvements: Convert existing standard crosswalk to ladder type at east leg; add detectable warning pads.

Location: NW 30 Avenue and NW 57 Street



Improvements: Add detectable warning pads at all corners; add ladder type crosswalks at east and west legs.

Location: NW 31 Avenue and NW 51 Terrace



Improvement: Add a pedestrian ramp at NW corner.

Sweetwater Elementary

Location: W Flagler Street and W 107 Avenue



Improvement: FDOT to upgrade crosswalks with ladder type markings.

Location: W Flagler Street and NW 108 Place



Improvements: Add detectable warning pads at NE and NW corners; convert existing standard crosswalk to ladder type at north leg.

Location: W Flagler Street and SW 104 Court



Improvements: Add detectable warning pad at SW corner; convert existing standard crosswalk to ladder type at south leg.

Location: SW 102 Avenue and SW 4 Street



Improvements: Convert existing standard crosswalk to ladder type at north leg; add detectable warning pads at NW and SW corners; add ladder type cross at south leg.

2.3 Summary of Recommendations

While the infrastructure improvement needs vary by school, the most common recommendations include new or improved sidewalks, crosswalks with ladder type markings, school crossing signs with fluorescent green background, countdown signals at signalized intersections, prohibition of on-street parking near crosswalks, and bike racks within school premises. In addition, recommendations were made for new or upgraded facilities to accommodate pedestrians with disabilities. Existing signs and pavement markings that do not meet the current MUTCD standards were recommended for replacement. Maintenance issues such as overgrown landscaping that reduces visibility of signs and signals, and damaged signs were also identified for notification to the appropriate agencies.

The preliminary construction cost estimates were developed based on unit cost information provided by PWWMD. Miami-Dade County is the implementation agency for these SRTS projects. Preliminary engineering (PE), construction engineering inspection (CEI), maintenance of traffic (MOT), mobilization, and contingency costs were estimated based on the methodology outlined in the SRTS cost estimation spreadsheets that were provided by FDOT during the prior grant application cycles.

The detailed improvements and cost estimates are included in Appendix E.

The following fact sheets provide a summary of the SRTS recommendations by school.

Figure 3: Summary of SRTS Improvements – Arch Creek Elementary

School	Arch Creek Elementary
Address	702 NE 137 Street, North Miami
Enrollment	540
Estimated students living within 0.5 miles	183
Estimated percent of students walking/biking	35%
Recommendations	Sidewalks, crosswalks, signage, bike racks, and ADA improvements
Cost	\$272,600

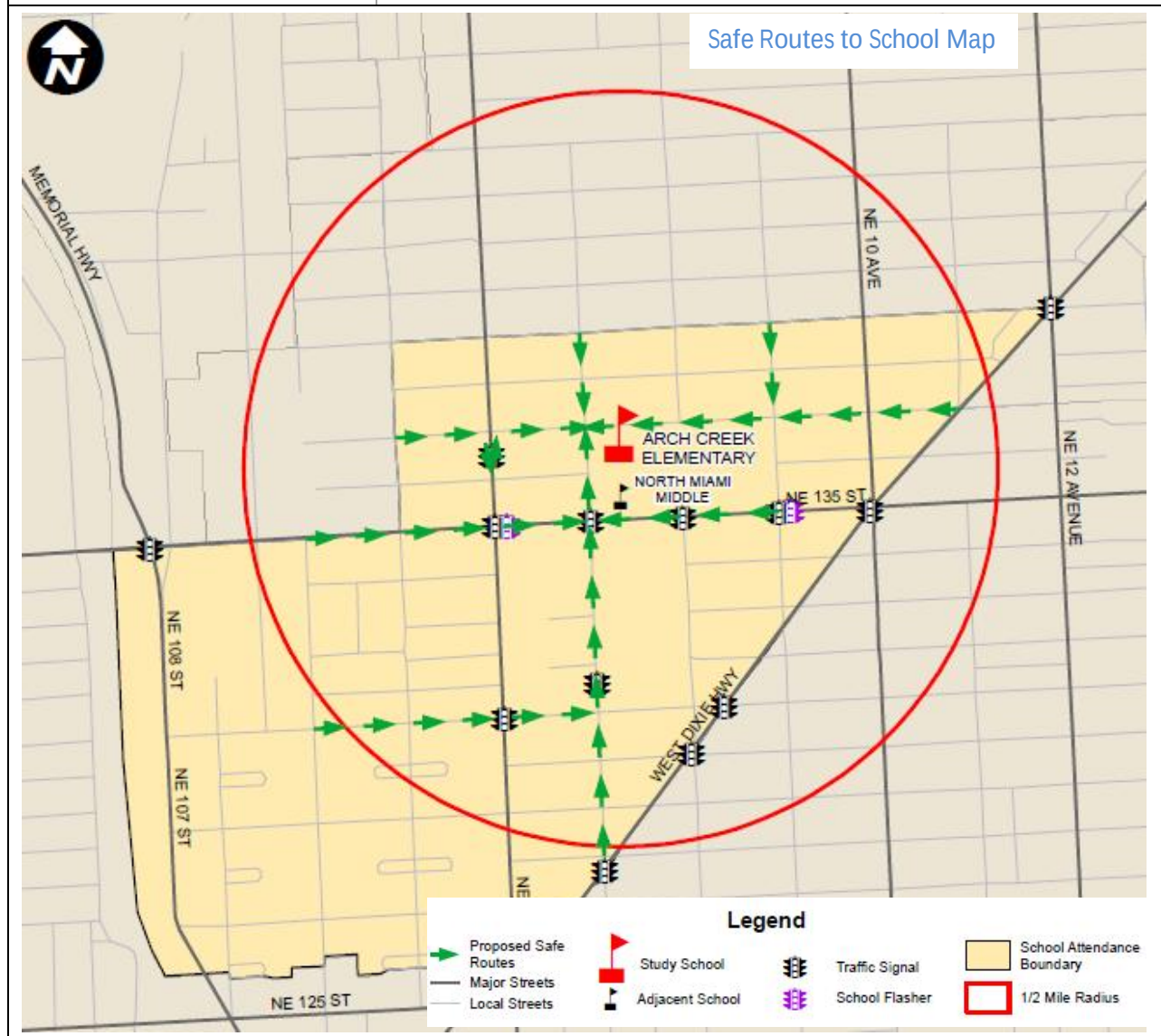


Figure 4: Summary of SRTS Improvements – Comstock Elementary

School	Comstock Elementary
Address	2420 NW 18 Avenue, Miami
Enrollment	522
Estimated students living within 0.5 miles	188
Estimated percent of students walking/biking	9%
Recommendations	Countdown pedestrian signals, sidewalks, crosswalks, signage, bike racks, and ADA improvements
Cost	\$214,400

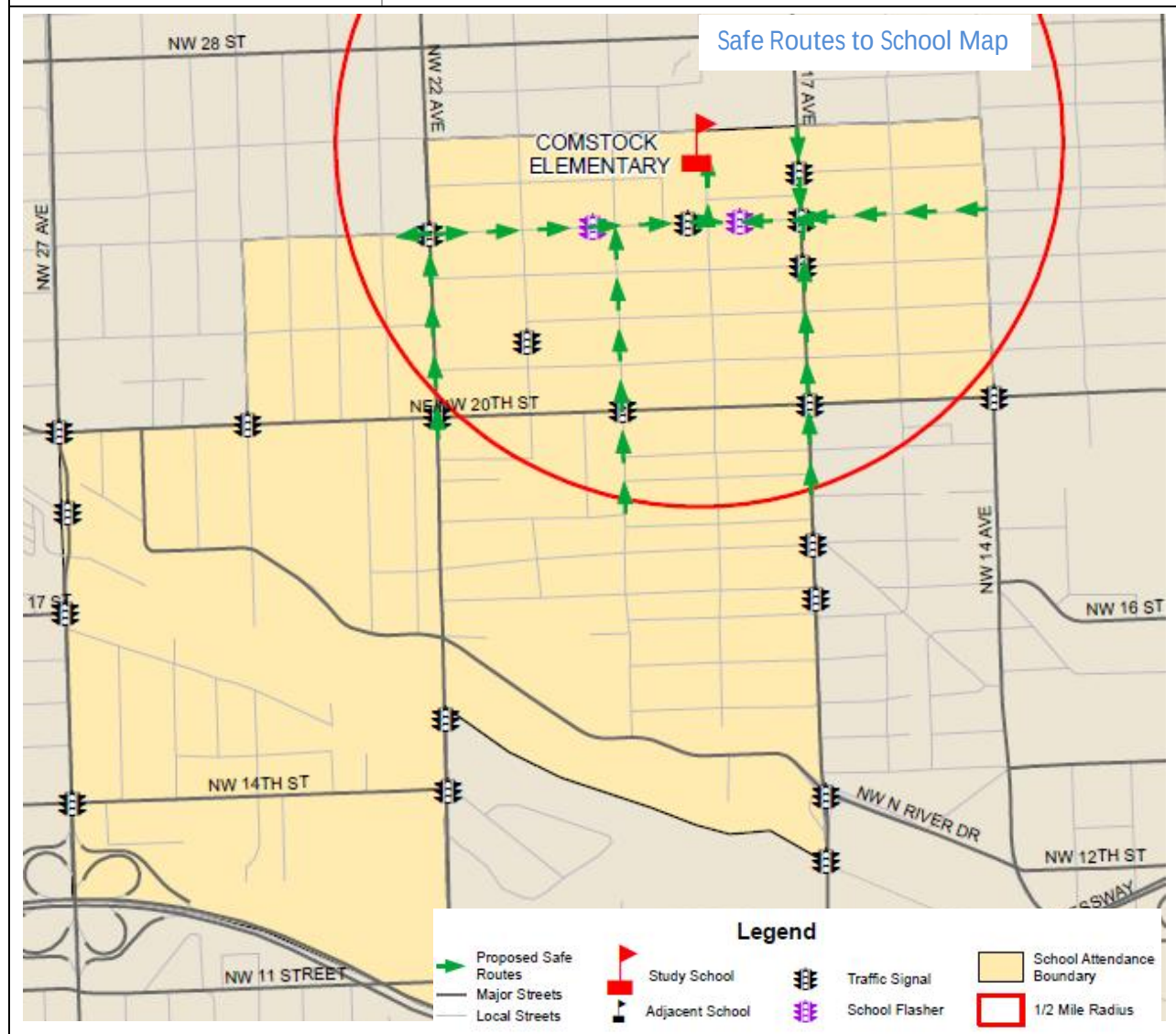


Figure 5: Summary of SRTS Improvements – Crestview Elementary

School	Crestview Elementary
Address	2201 NW 187 Street, Miami Gardens
Enrollment	427
Estimated students living within 0.5 miles	163
Estimated percent of students walking/biking	17%
Recommendations	Crosswalks, signage, relocate bus stop, bike racks, and ADA improvements
Cost	\$171,300

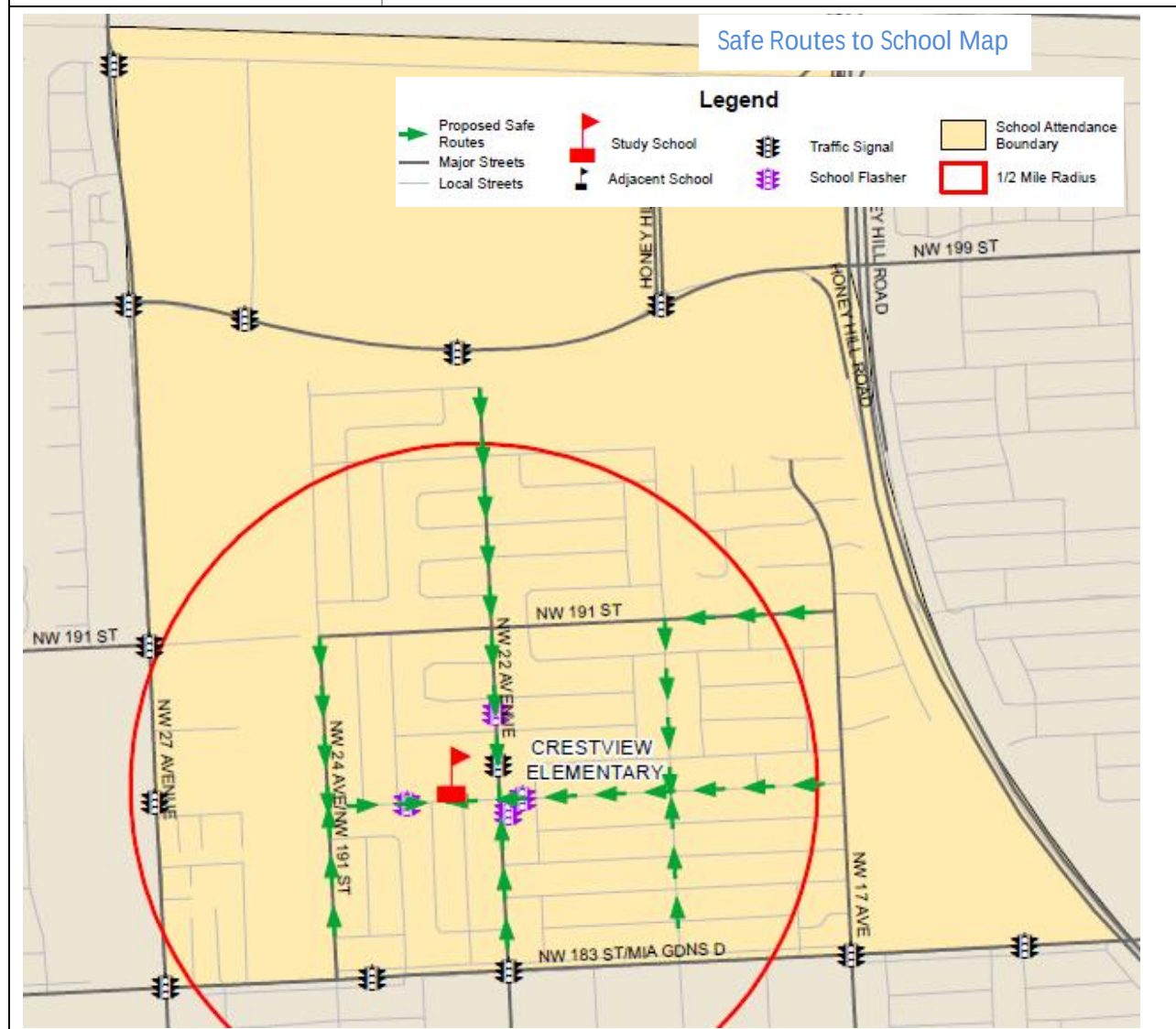


Figure 6: Summary of SRTS Improvements – Edison Park K-8 Center

School	Edison Park K-8 Center
Address	500 NW 67 Street, Miami
Enrollment	500
Estimated students living within 0.5 miles	256
Estimated percent of students walking/biking	54%
Recommendations	Crosswalks, signage, bike racks, and ADA improvements
Cost	\$251,200

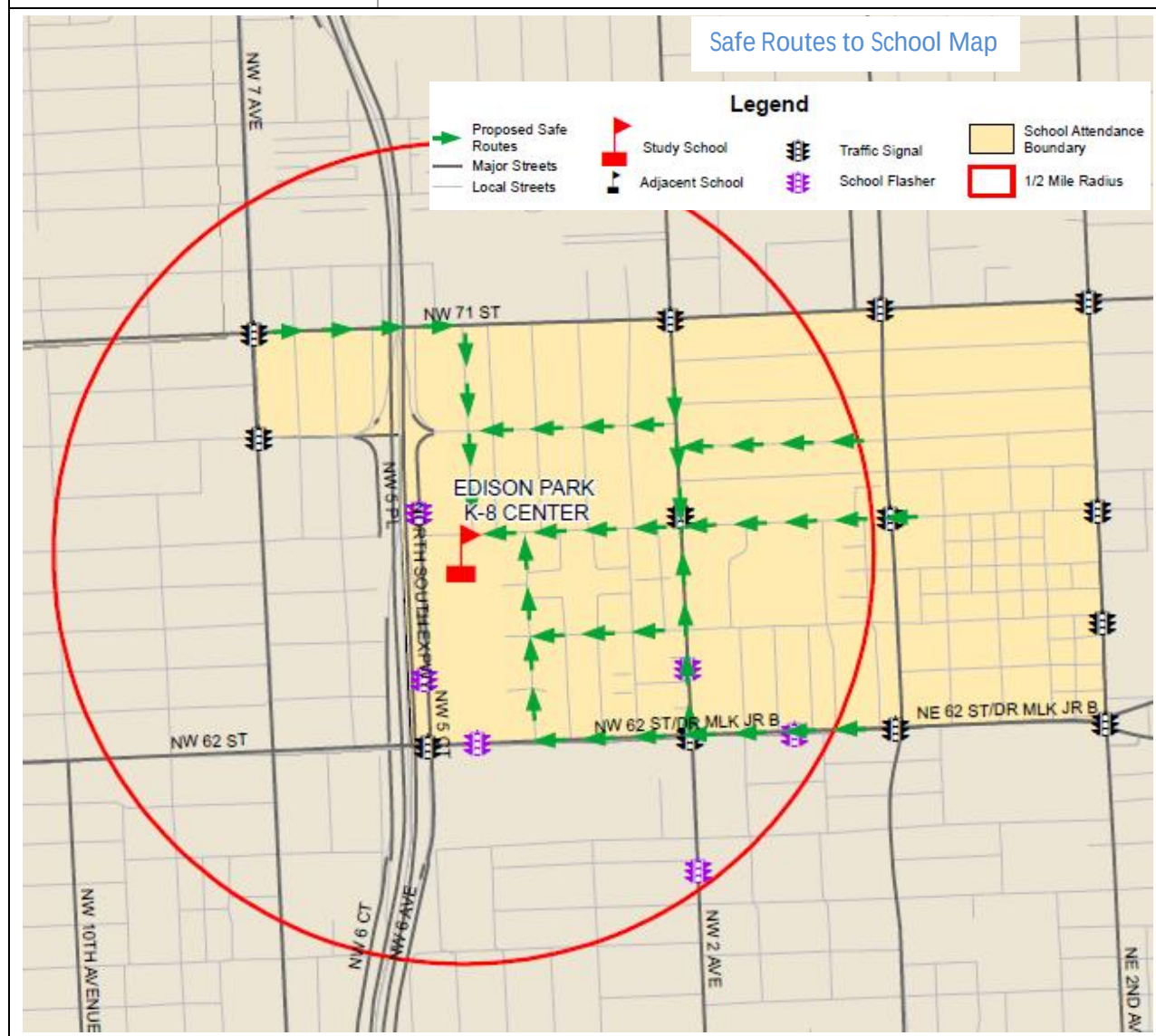


Figure 7: Summary of SRTS Improvements – Eneida Massas Hartner Elementary

School	Eneida Massas Hartner Elementary
Address	401 NW 29 Street, Miami
Enrollment	550
Estimated students living within 0.5 miles	287
Estimated percent of students walking/biking	18%
Recommendations	Countdown pedestrian signals, crosswalks, signage, bike racks, and ADA improvements
Cost	\$214,900

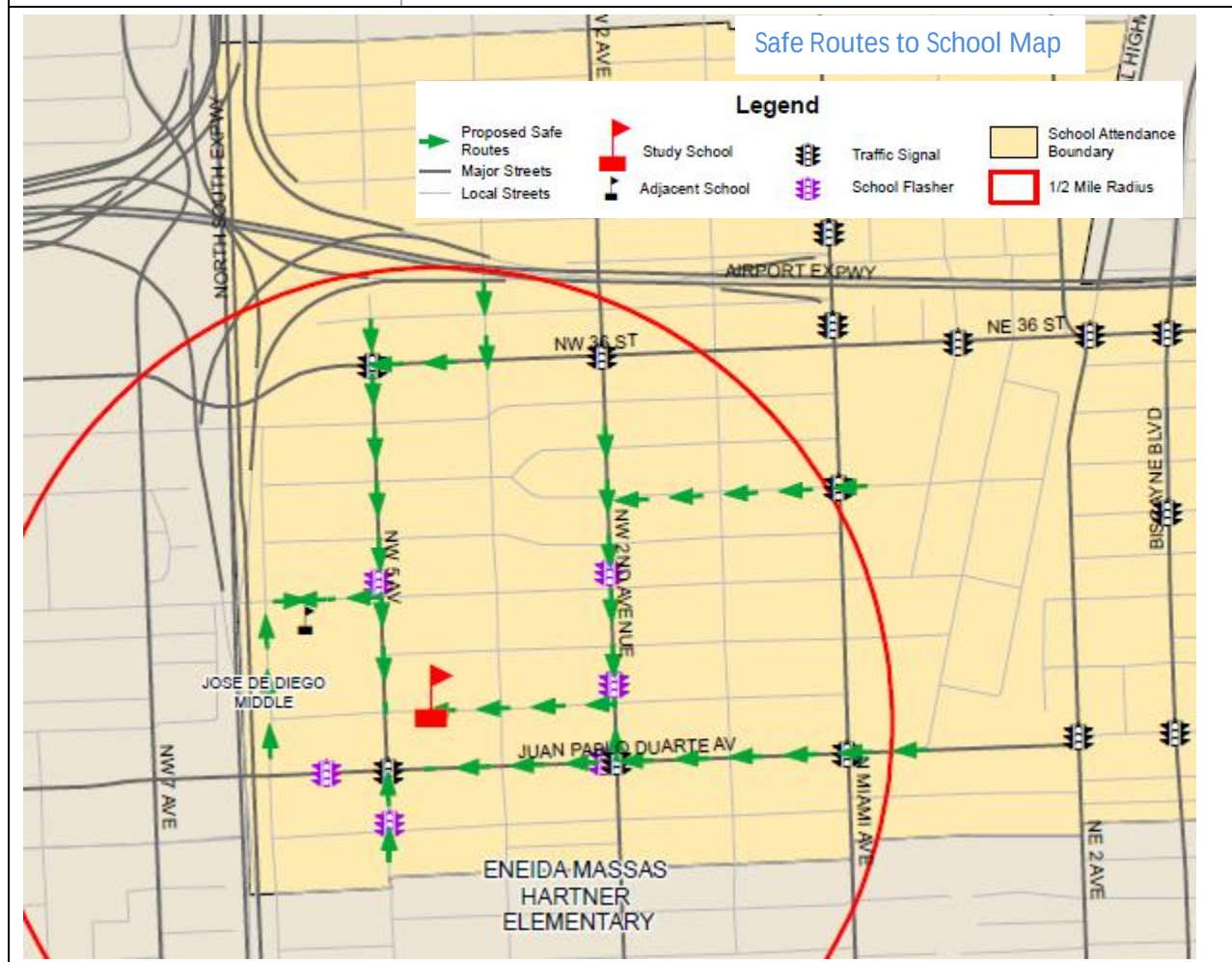


Figure 8: Summary of SRTS Improvements – Gratigny Elementary

School	Gratigny Elementary
Address	11905 N Miami Avenue, Miami
Enrollment	684
Estimated students living within 0.5 miles	180
Estimated percent of students walking/biking	20%
Recommendations	Countdown pedestrian signals, sidewalks, crosswalks, signage, bike racks, and ADA improvements
Cost	\$383,500

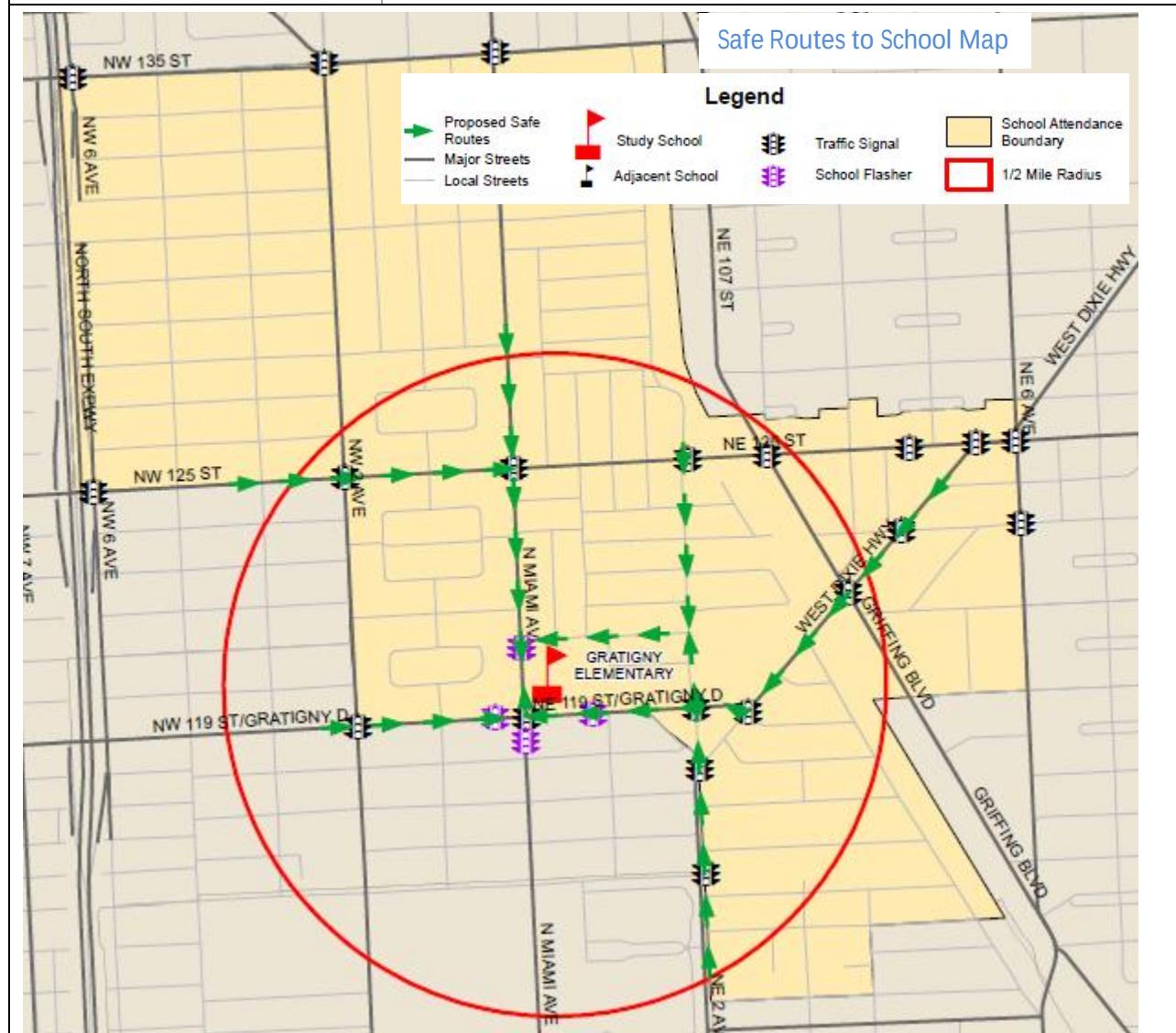


Figure 9: Summary of SRTS Improvements – Hibiscus Elementary

School	Hibiscus Elementary
Address	18701 NW 1 Avenue, Miami Gardens
Enrollment	480
Estimated students living within 0.5 miles	238
Estimated percent of students walking/biking	17%
Recommendations	Crosswalks, signage, bike racks, and ADA improvements
Cost	\$104,600

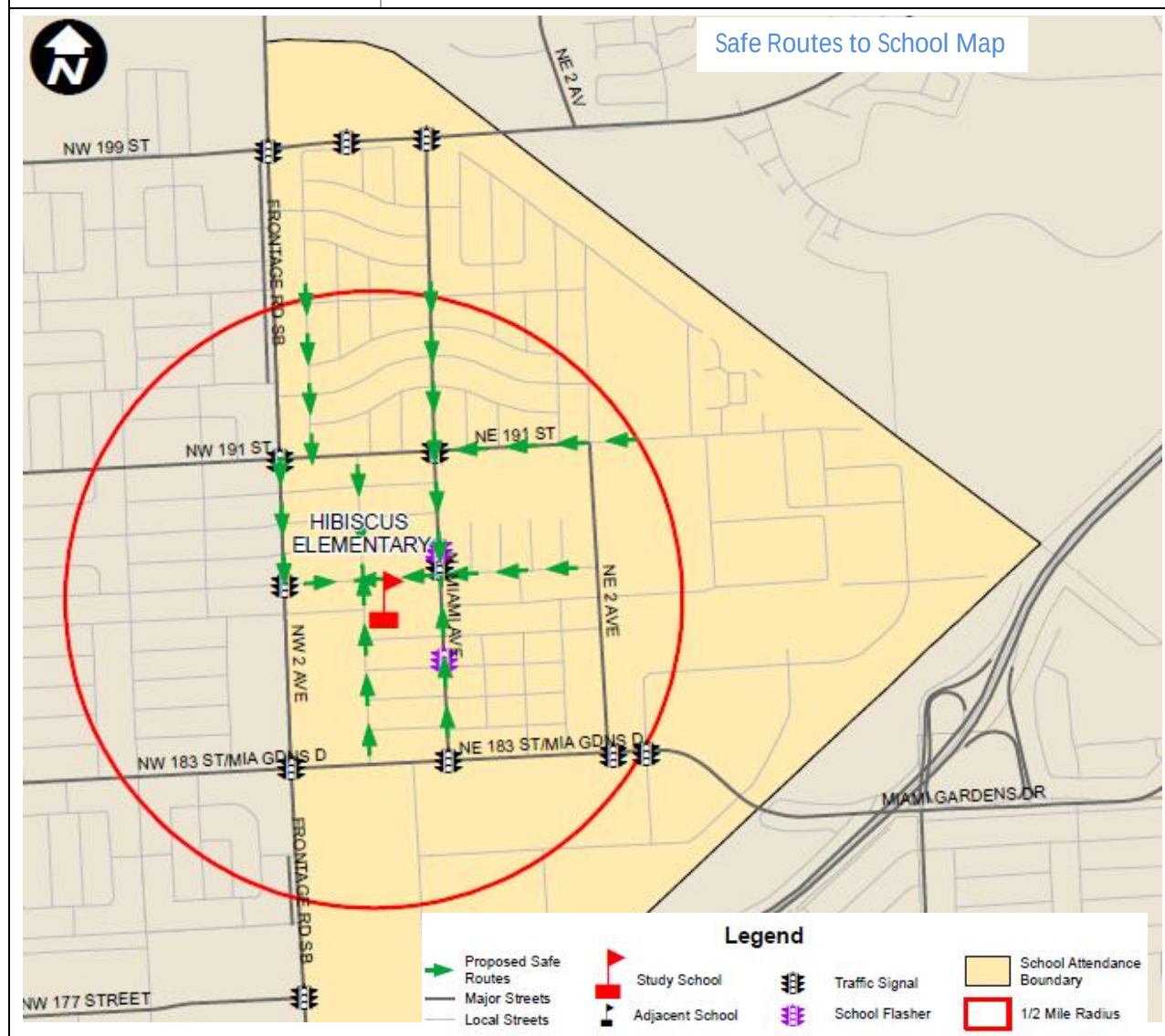


Figure 10: Summary of SRTS Improvements – Lakeview Elementary

School	Lakeview Elementary
Address	1290 NW 115 Street, Miami Gardens
Enrollment	450
Estimated students living within 0.5 miles	204
Estimated percent of students walking/biking	32%
Recommendations	Countdown pedestrian signals, crosswalks, signage, bike racks, and ADA improvements
Cost	\$257,200

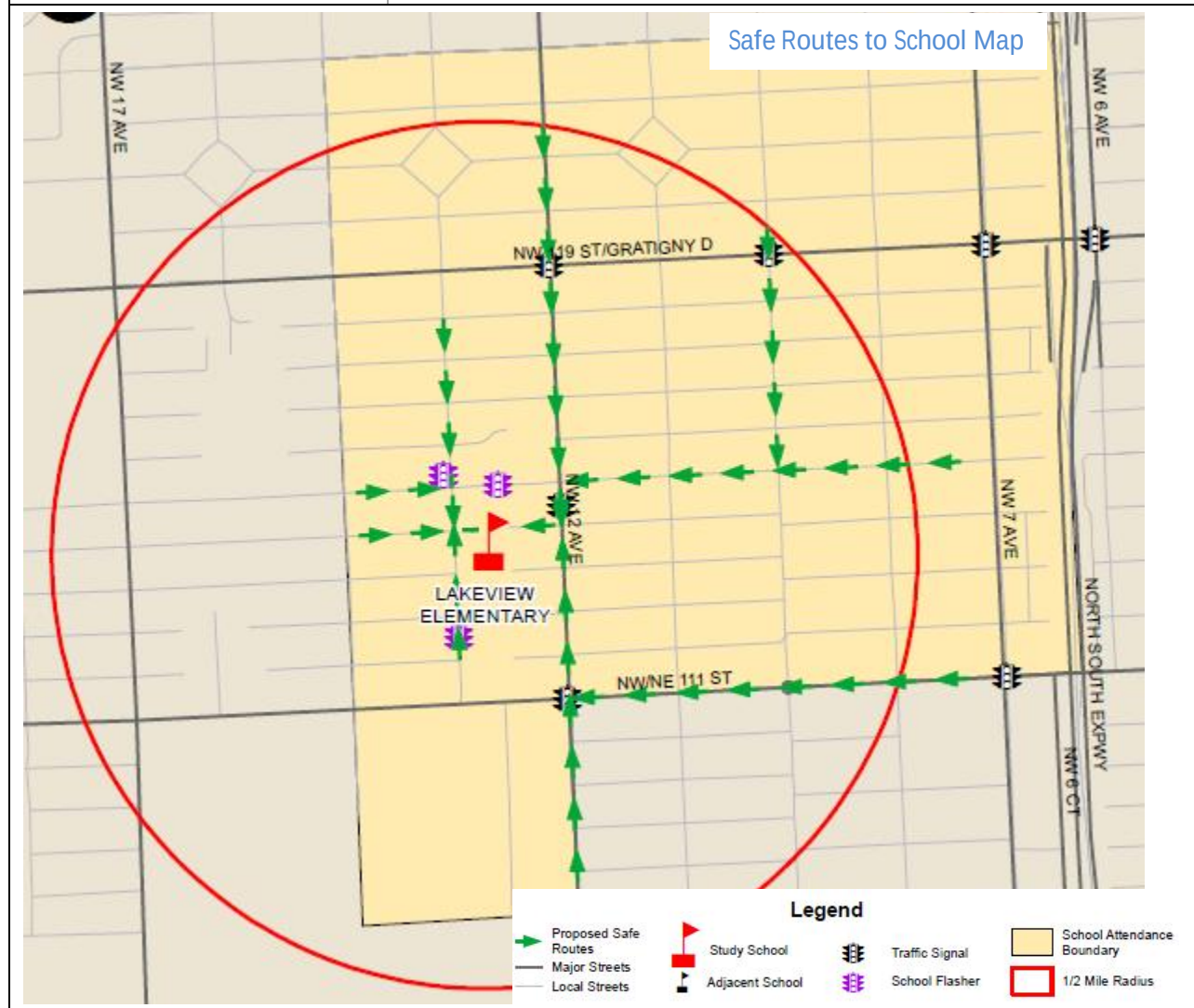


Figure 11: Summary of SRTS Improvements – Lorah Park Elementary

School	Lorah Park Elementary
Address	5160 NW 31 Avenue, Miami
Enrollment	461
Estimated students living within 0.5 miles	192
Estimated percent of students walking/biking	34%
Recommendations	Countdown pedestrian signals, crosswalks, signage, bike racks, and ADA improvements
Cost	\$222,100

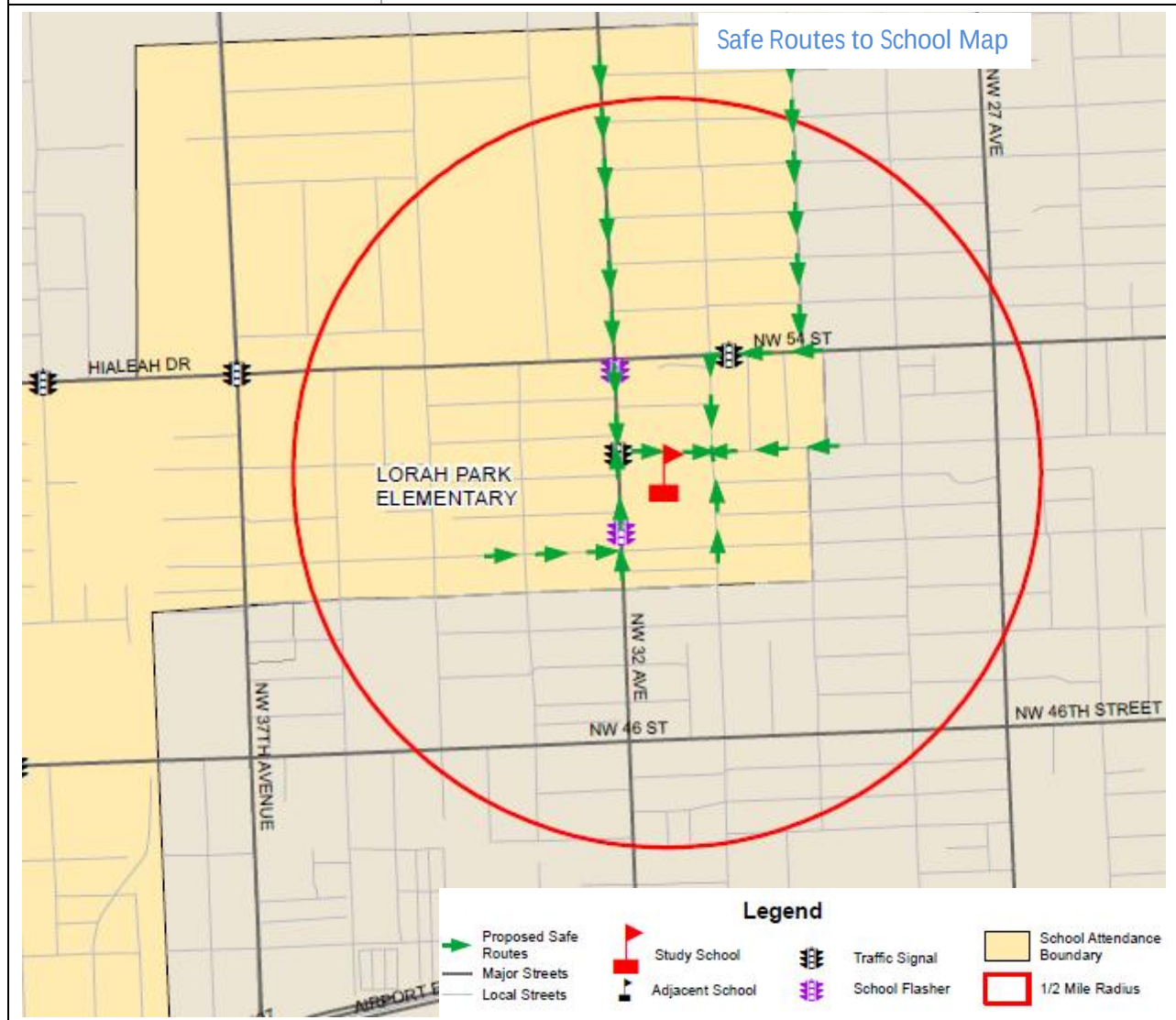


Figure 12: Summary of SRTS Improvements – Sweetwater Elementary

School	Sweetwater Elementary
Address	10655 SW 4 Street, Sweetwater
Enrollment	806
Estimated students living within 0.5 miles	272
Estimated percent of students walking/biking	2%
Recommendations	Countdown pedestrian signals, crosswalks, signage, bike racks, and ADA improvements
Cost	\$230,300



3.0 SRTS GRANT APPLICATIONS

The SRTS program under MAP-21 is eligible for Transportation Alternatives Program (TAP) funding. TAP funds are administered by the FDOT at the district level. The application guidelines for SRTS projects under MAP-21 are similar to FDOT guidelines established when projects were funded through a dedicated funding source under SAFETEA-LU.

3.1 SRTS Grant Applications

Ten grant applications were submitted to FDOT District Six requesting funding for the proposed SRTS infrastructure improvements. As summarized in Table 3, the total funding request of the 10 applications is approximately \$2.1 million. Please note that contingency funds are not a reimbursable expense through TAP grants. Therefore, the estimated contingency requirements were not included in the funding request.

In addition to the infrastructure improvements, the grant applications also identified education, encouragement, and enforcement strategies, which could complement engineering improvements, to implement a comprehensive SRTS program.

Table 3: Summary of SRTS Grant Request

School	Funding Request ¹	Contingency ²	Total ³
Arch Creek Elementary (including North Miami Middle School)	\$244,400.00	\$28,200.00	\$272,600.00
Comstock Elementary	\$192,200.00	\$22,200.00	\$214,400.00
Crestview Elementary	\$153,600.00	\$17,700.00	\$171,300.00
Edison Park K-8 Center	\$225,200.00	\$26,000.00	\$251,200.00
Eneida Massas Hartner Elementary (including Jose De Diego Middle School)	\$192,700.00	\$22,200.00	\$214,900.00
Gratigny Elementary	\$343,800.00	\$39,700.00	\$383,500.00
Hibiscus Elementary	\$93,800.00	\$10,800.00	\$104,600.00
Lakeview Elementary	\$230,600.00	\$26,600.00	\$257,200.00
Lorah Park Elementary	\$199,100.00	\$23,000.00	\$222,100.00
Sweetwater Elementary	\$206,500.00	\$23,800.00	\$230,300.00
Total	\$2,081,900.00	\$240,200.00	\$2,322,100.00

1. Rounded to the nearest \$100.

2. Assumed to be 15 percent of construction cost (excluding design and construction engineering and inspection).

3. Due to rounding, the total cost estimate may be different from the detailed estimates included in Appendix E.

4.0 SUMMARY

The *Safe Routes to School 2014 Infrastructure Plans* study was conducted to develop SRTS infrastructure plans and grant applications for 10 priority K-8 schools in Miami-Dade County. These schools were selected based on the prioritized list of schools developed by the Miami-Dade MPO. The SRTS improvements were developed in coordination with PWWMD, MDCPS, school staff, and WalkSafe™. The primary focus area of infrastructure improvements is a 0.5-mile radius surrounding the school. Typical SRTS recommendations include new or improved sidewalks, crosswalks with ladder type pavement markings, school crossing signs with fluorescent green background, countdown signals at signalized intersections, prohibition of on-street parking near crosswalks, and bike racks within school premises.

The SRTS grant applications were submitted to FDOT District Six requesting funding for the proposed infrastructure improvements through TAP. The total value of the proposed SRTS improvements is approximately \$2.1 million with individual applications ranging between \$94,000 and \$344,000. Further, opportunities for education, encouragement, and enforcement strategies, which could complement engineering improvements, were also identified.

Safe Routes to School

2014 Infrastructure Plans



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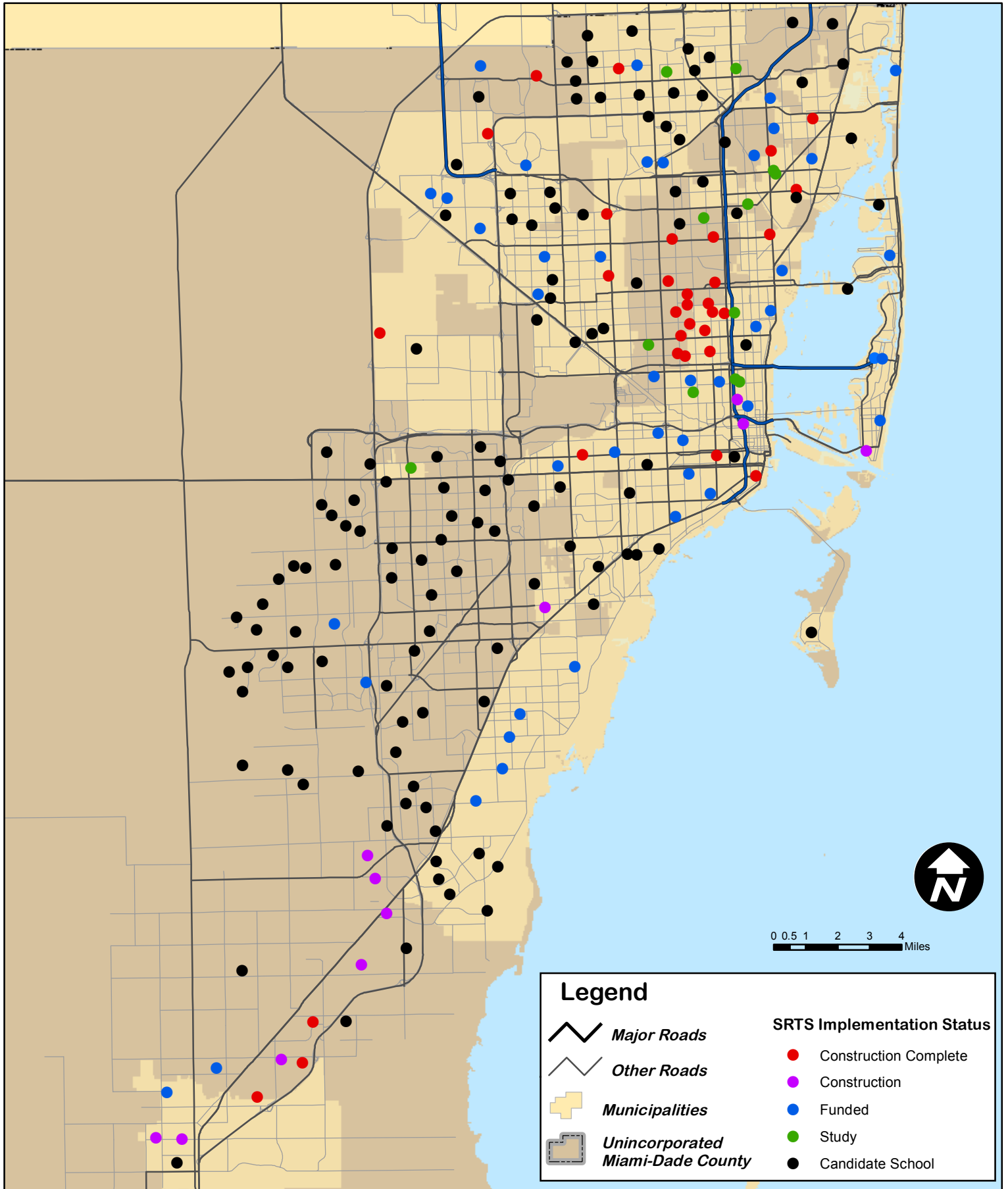


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APPENDICES

SRTS INFRASTRUCTURE PROGRAM STATUS



APPENDIX B
SAC PRESENTATIONS

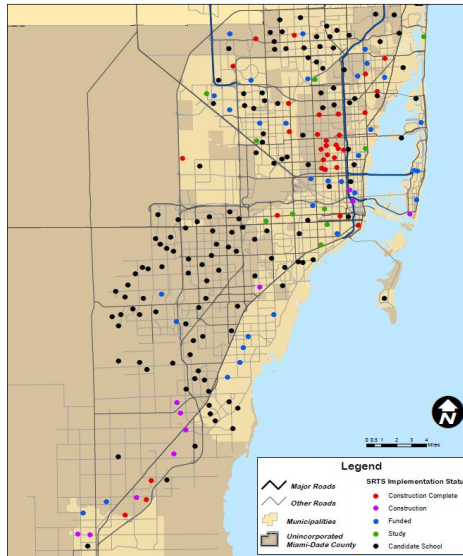


WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Purpose of Today's Discussion

- Identify 10 schools from the 12 shortlisted candidate schools to develop Safe Routes to School (SRTS) infrastructure improvements.

SRTS Program Status



- SRTS plans have been developed for over 85 K-8 schools.
- 43 projects are complete or in construction phase.

Status as of mid/late 2013.

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School Selection Process

- Quantitative prioritization of eligible schools.
- MDPS, MPO and WalkSafe staff reviews prioritization results and develops a shortlist.
- Additional reviews of shortlisted schools by the consultant.

Kimley»Horn

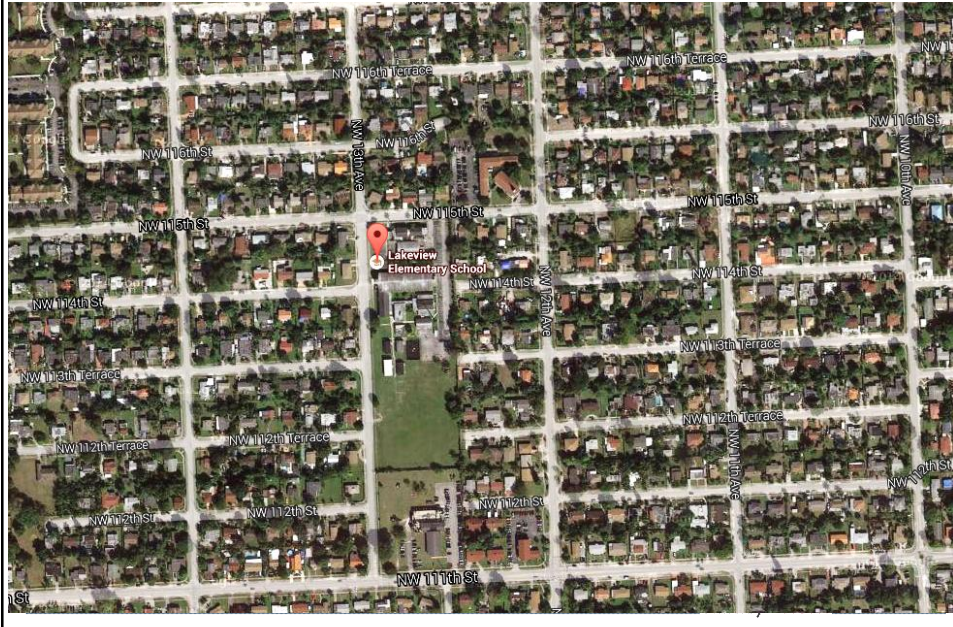
Map of the City of New York showing the locations of 11 elementary schools. The schools are marked with red dots and labeled: Orchardview Elementary, Myrtle Grove Elementary, Lakeview Elementary, Lorah Park Elementary, Eneida Massas Harmer Elementary, Sweetwater Elementary, Halseus Elementary, Arth Creek Elementary, Crofton Elementary, Edison Park Elementary, and Shawanaw Elementary. A scale bar at the bottom right indicates distances from 0 to 4 miles.

-
- Kimley-Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

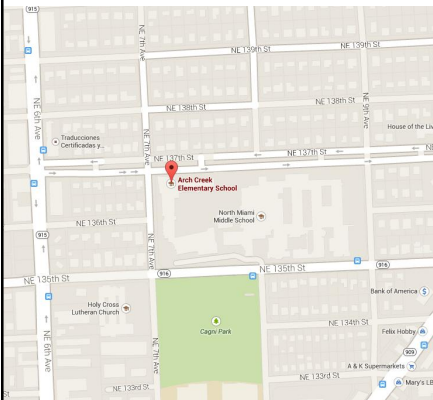
[illegible]

Lakeview Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Arch Creek Elementary (Including North Miami Middle School)

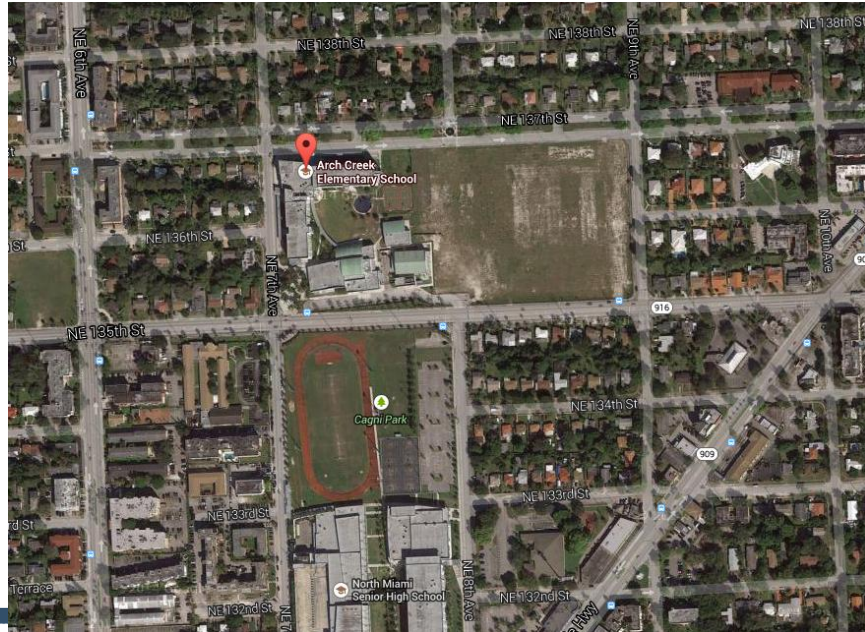


Information

- School requested for sidewalk and ADA improvements on NE 3 Court.
- History of juvenile pedestrian crashes.

Kimley»Horn

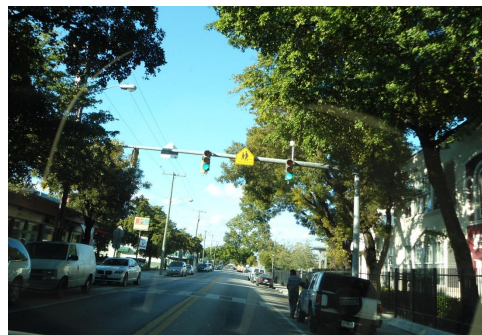
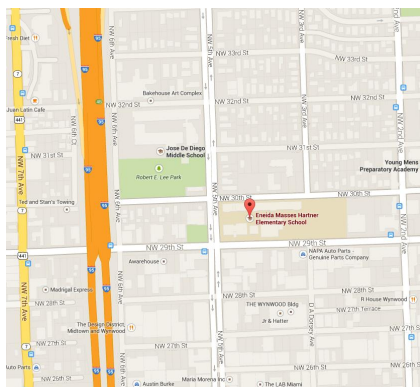
Arch Creek Elementary



WORK ORDER #V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Eneida Massas Hartner Elementary

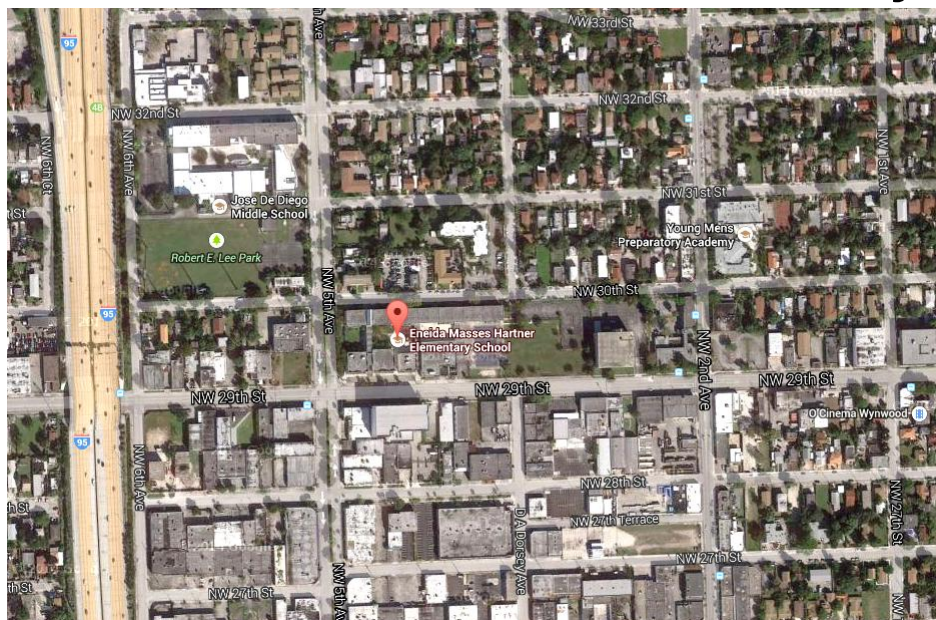
(Including Jose De Diego Middle School)



Information

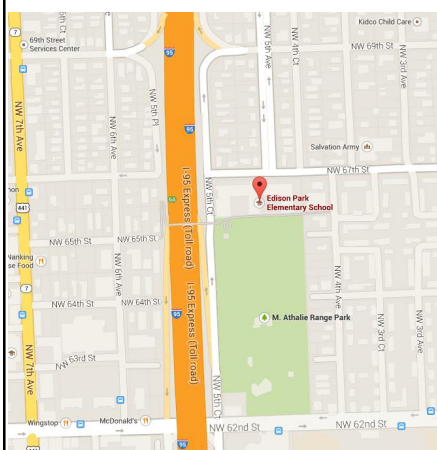
- History of juvenile pedestrian crashes.
- On-Street parking near school crossing.

Eneida Massas Hartner Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Edison Park K-8 Center

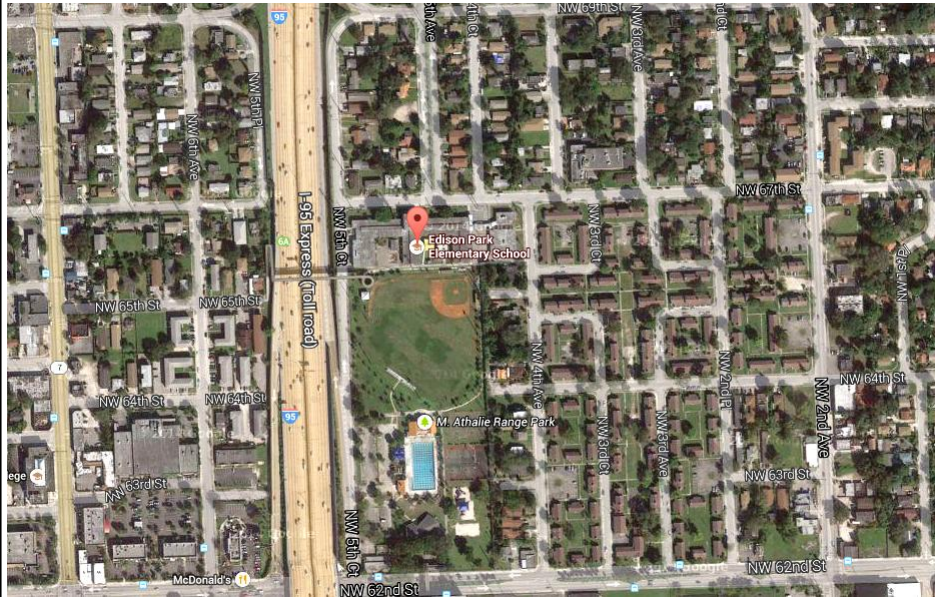


Information

- History of juvenile pedestrian crashes.
- High percentage of students walking to school per WalkSafe.

Kimley»Horn

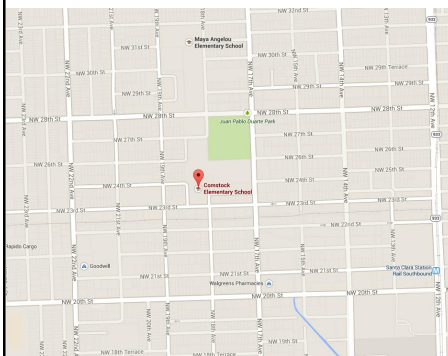
Edison Park K-8 Center



Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Comstock Elementary

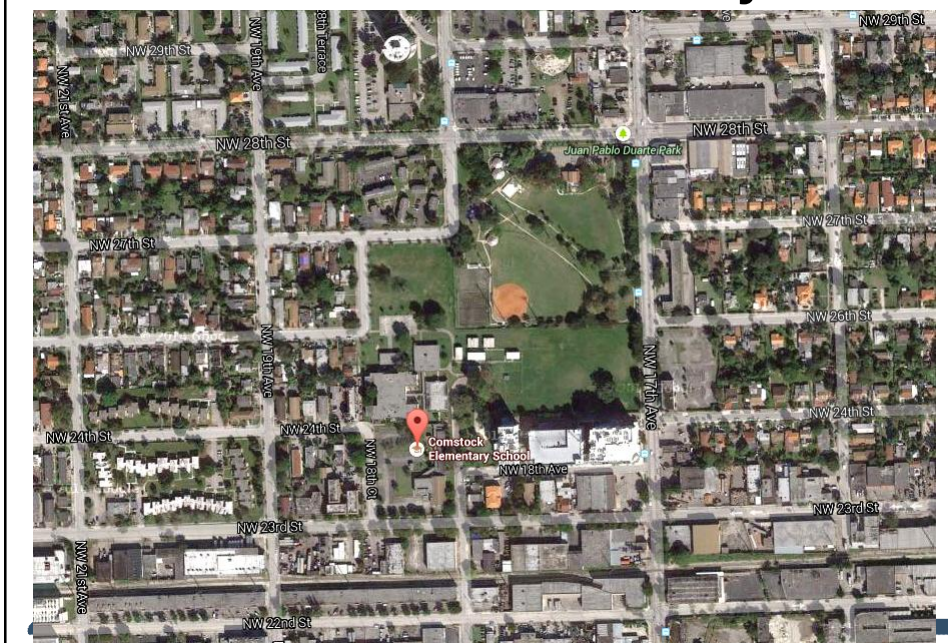


Information

- History of pedestrian crashes.
- Aerials show the need for sidewalk improvements.

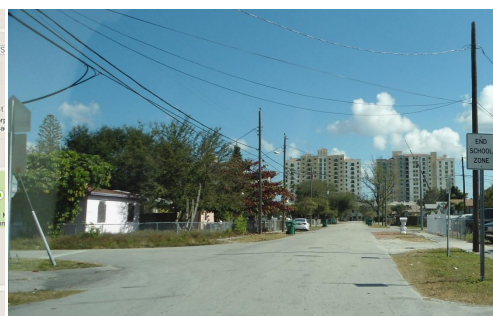
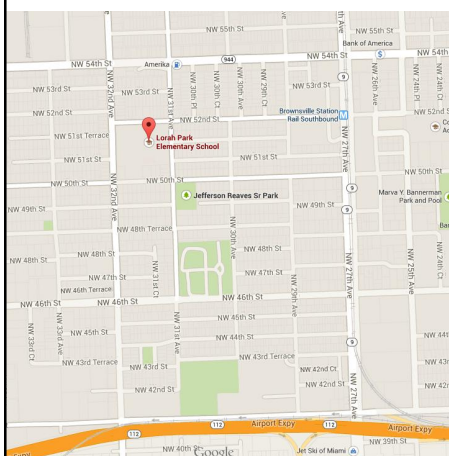
Kimley»Horn

Comstock Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

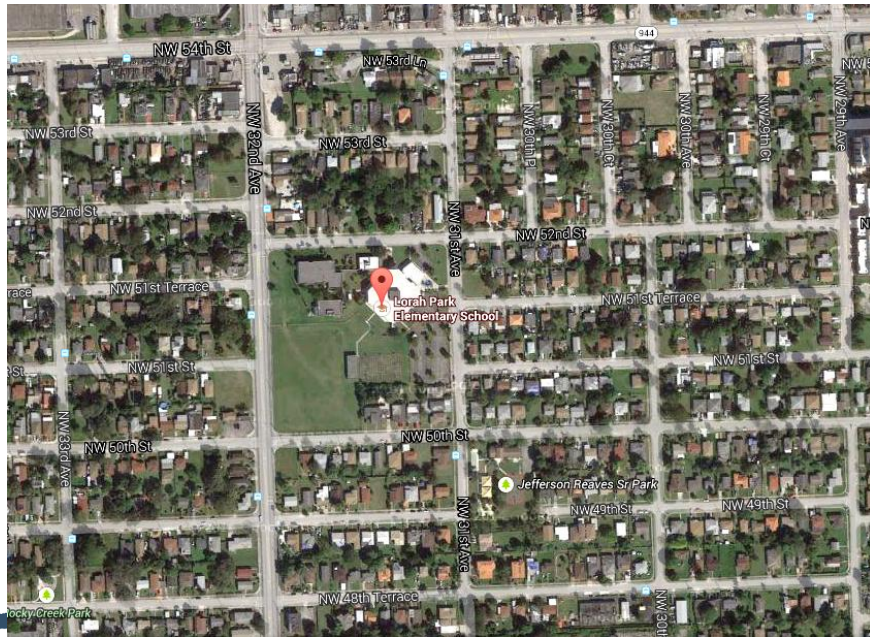
Lorah Park Elementary



Information

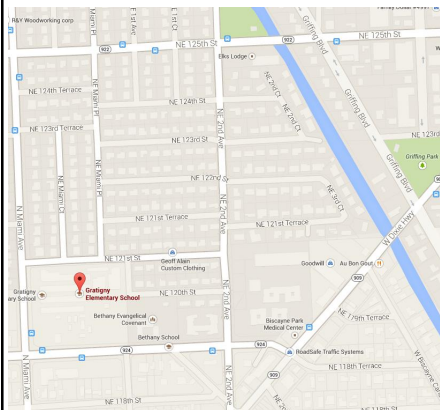
- Potential need for sidewalk and ADA improvements.

Lorah Park Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

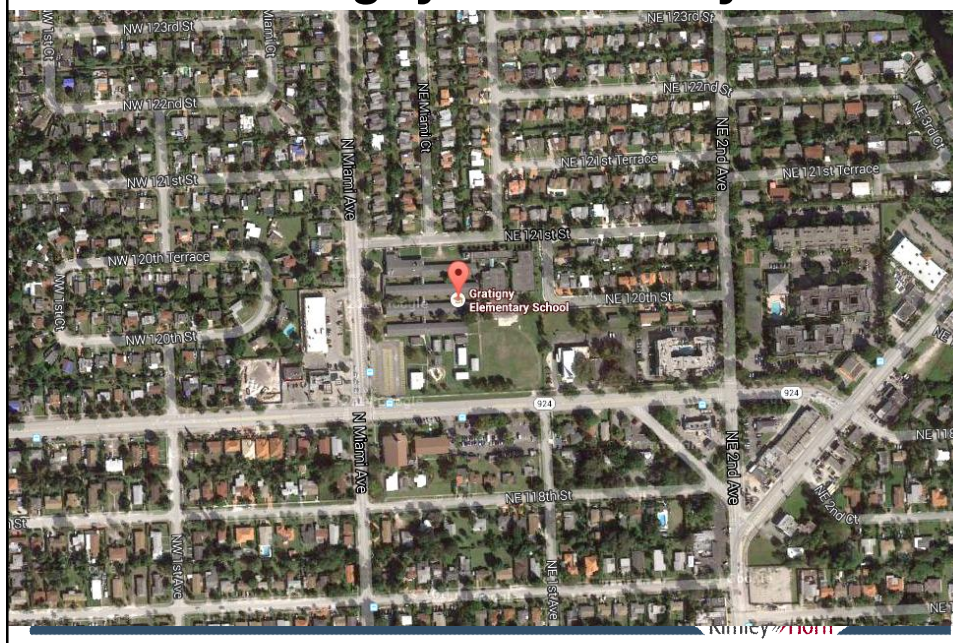
Gratigny Elementary



Information

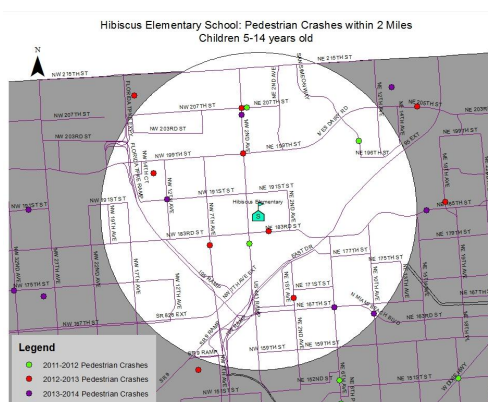
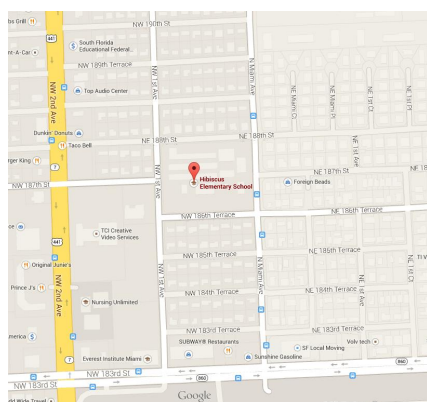
- Potential need for crosswalk, signage and ADA improvements.

Gratigny Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Hibiscus Elementary



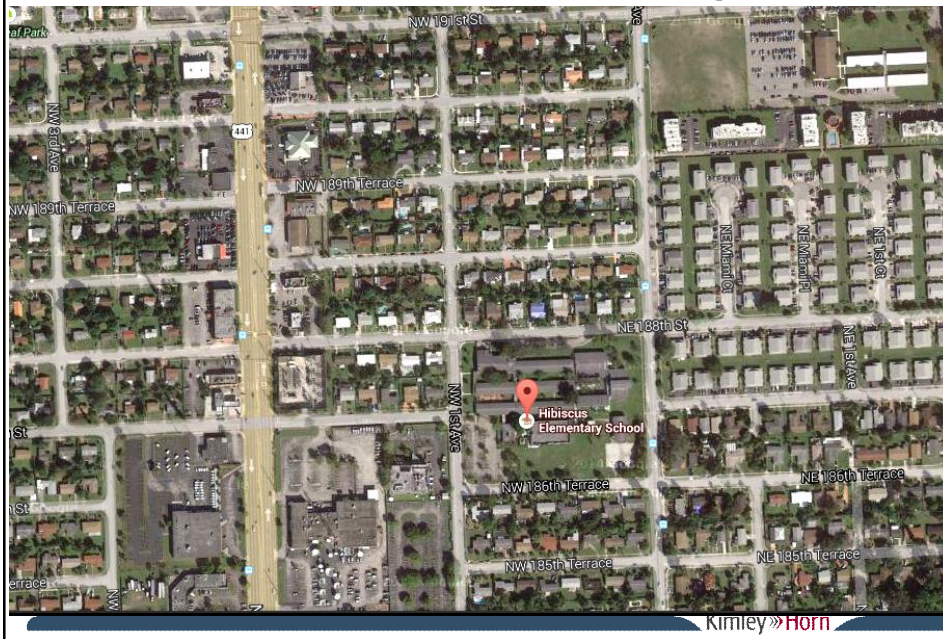
Map provided by WalkSafe.

Information

- History of juvenile pedestrian crashes.
- Located in proximity of two major streets.

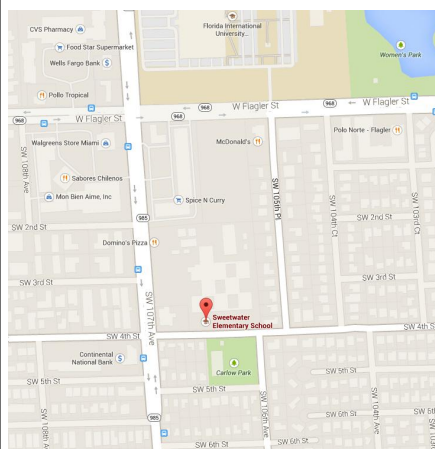
Kimley-Horn

Hibiscus Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

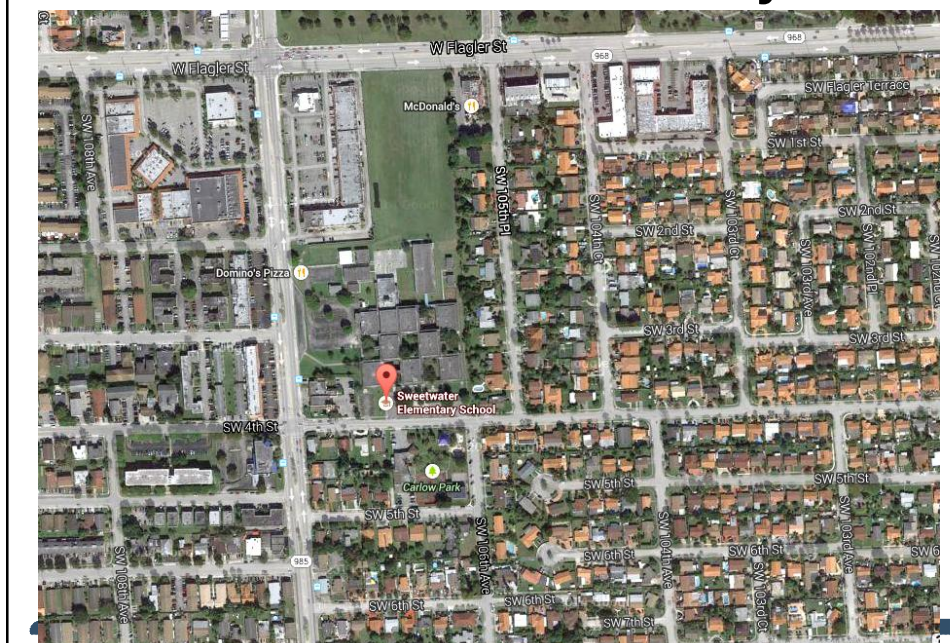
Sweetwater Elementary



Information

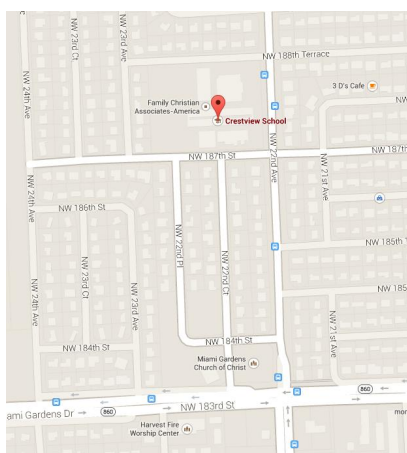
- Potential conflicts between student drop off traffic and crosswalk.
- FDOT input needed.

Sweetwater Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

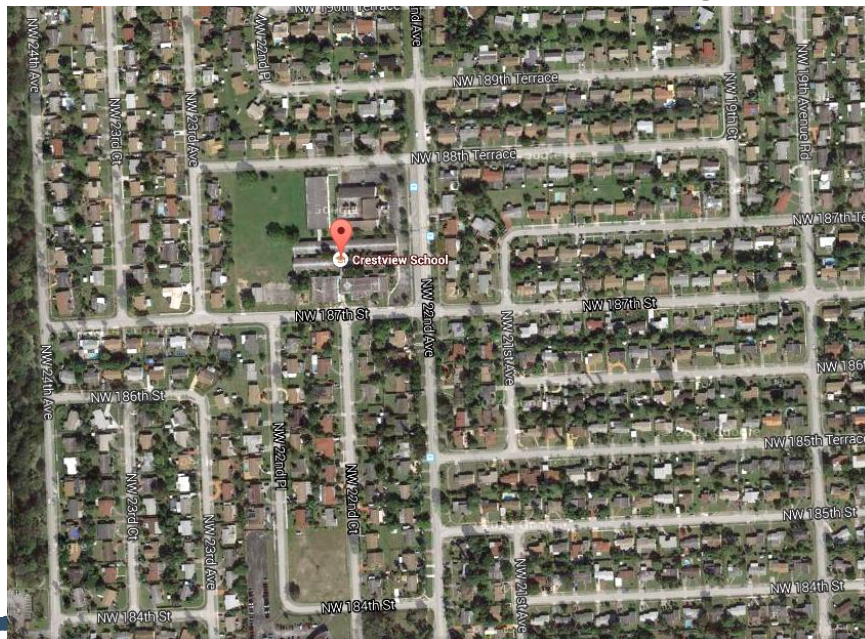
Crestview Elementary



Information

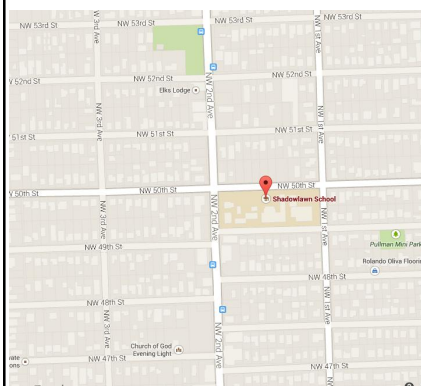
- Two crosswalks on NW 22 Avenue near the school.

Crestview Elementary



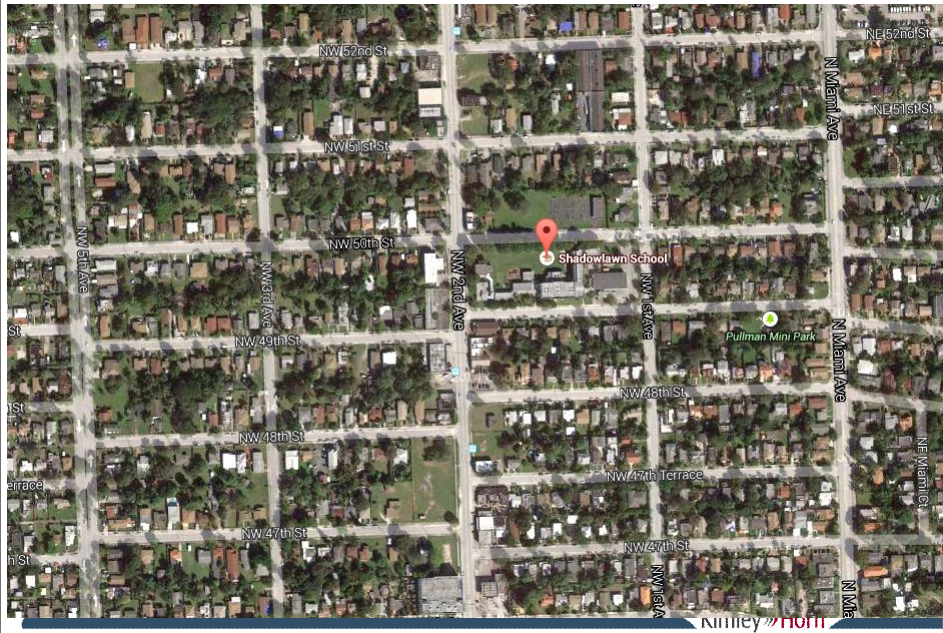
WORK ORDER #V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Shadowlawn Elementary

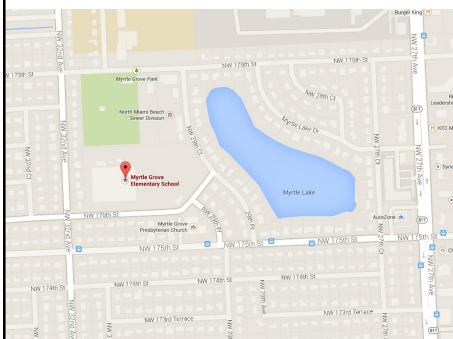


Information

- History of juvenile pedestrian crashes.
- Need input from City of Miami.

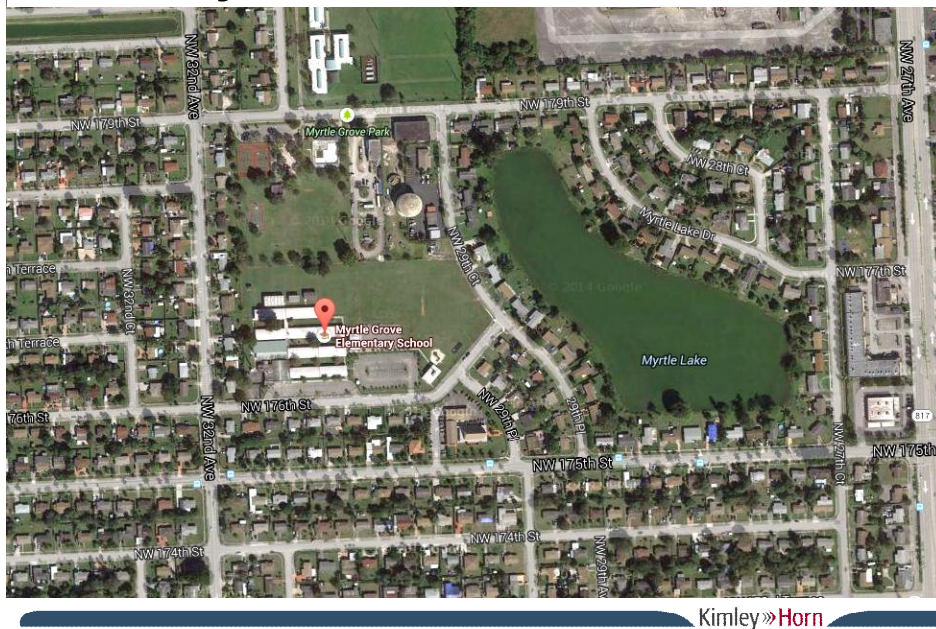


Myrtle Grove K-8 Center



- History of juvenile pedestrian crashes.
- Potential need for ADA and signage improvements.

Myrtle Grove K-8 Center



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Proposed Schedule

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Coordinate with Schools/Advance Notification								
Site Assessment/Data Collection/Plan Development								
Stakeholder Review of Draft SRTS Plans					★			
Finalize and Submit Applications								

★ Presentation to CTST

Kimley-Horn



WORK ORDER # V-25



Safe Routes to School

2014 Infrastructure Plans



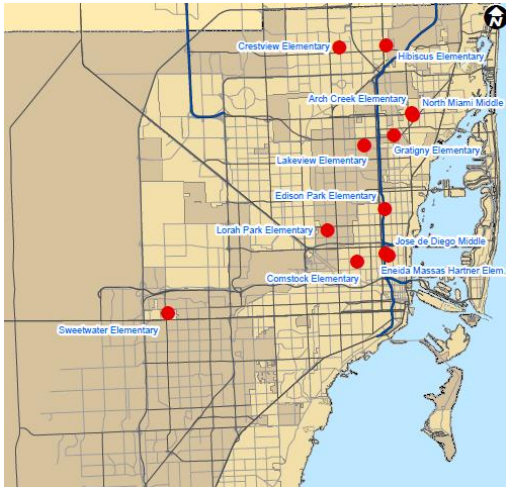


January 14, 2015

Kimley»Horn

WORK ORDER # V-25
SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Selected Schools for 2014



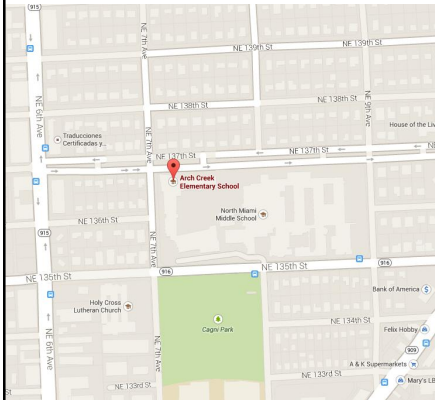
1. Arch Creek Elementary (including North Miami Middle)
2. Comstock Elementary
3. Crestview Elementary
4. Edison Park Elementary
5. Eneida Massas Hartner Elementary (including Jose De Diego Middle)
6. Lakeview Elementary
7. Lorah Park Elementary
8. Gratigny Elementary
9. Hibiscus Elementary
10. Sweetwater Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Arch Creek Elementary

(Including North Miami Middle School)



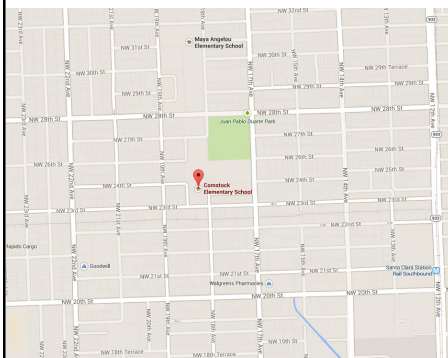
Information

- School requested for sidewalk and ADA improvements on NE 3 Court.
- History of juvenile pedestrian crashes.

Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Comstock Elementary



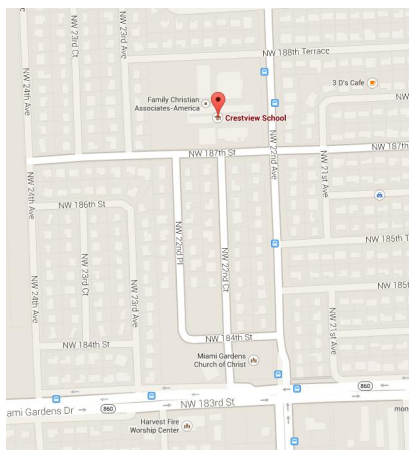
Information

- History of pedestrian crashes.
- Aerials show the need for sidewalk improvements.

Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Crestview Elementary



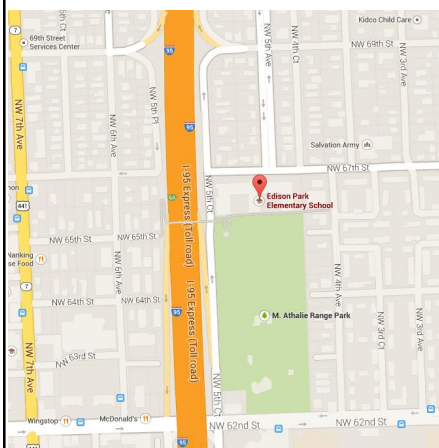
Information

- Two crosswalks on NW 22 Avenue near the school.

Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Edison Park Elementary



Information

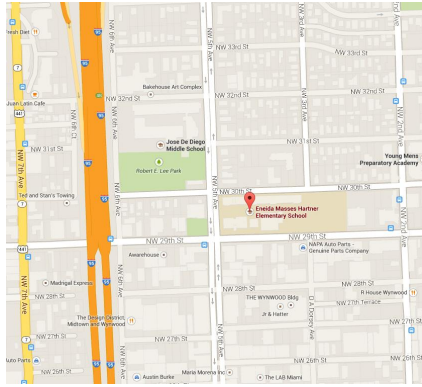
- History of juvenile pedestrian crashes.
- High percentage of students walking to school per WalkSafe.

Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Eneida Massas Hartner Elementary

(Including Jose De Diego Middle School)



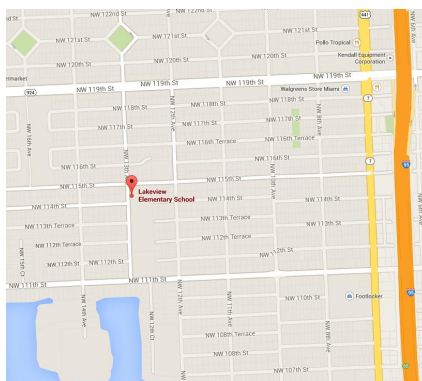
Information

- History of juvenile pedestrian crashes.
- On-Street parking near school crossing.

Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Lakeview Elementary



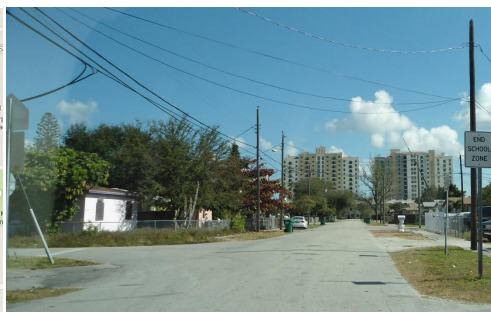
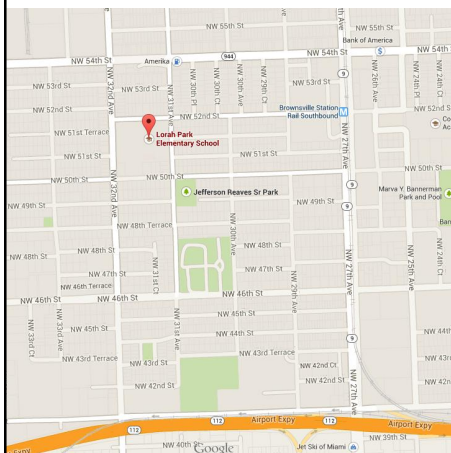
Information

- On-street parking conflicts with crosswalk.
- History of juvenile pedestrian crashes.

Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Lorah Park Elementary



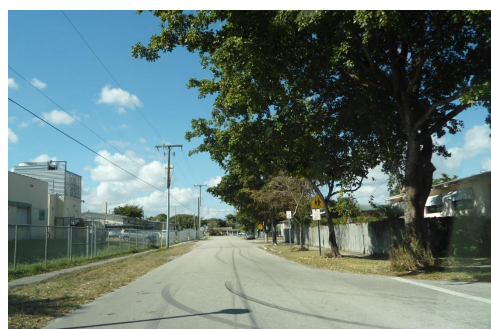
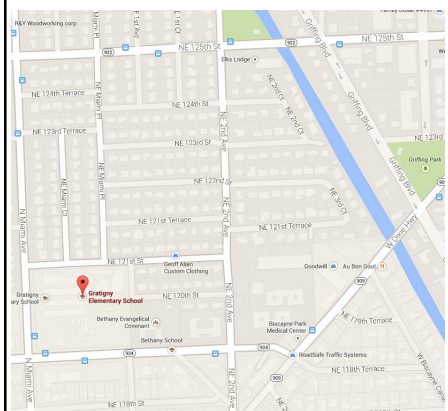
Information

- Potential need for sidewalk and ADA improvements.

Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Gratigny Elementary



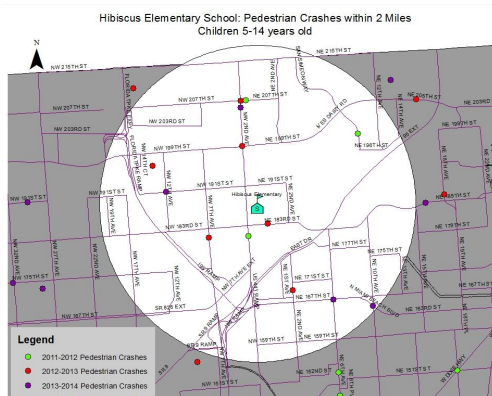
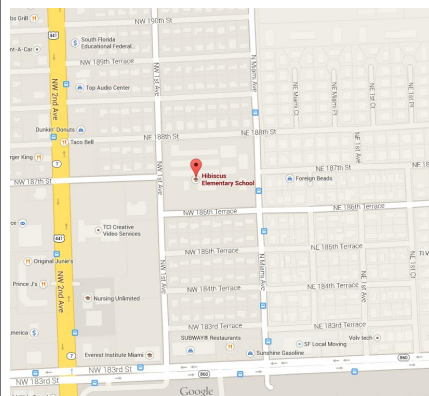
Information

- Potential need for crosswalk, signage and ADA improvements.

Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Hibiscus Elementary



Map provided by WalkSafe.

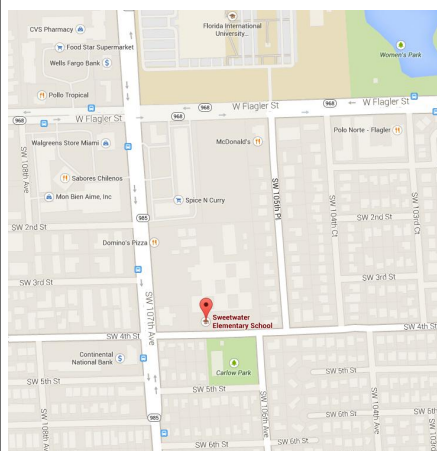
Information

- History of juvenile pedestrian crashes.
- Located in proximity of two major streets.

Kimley»Horn

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Sweetwater Elementary



Information

- Potential conflicts between student drop off traffic and crosswalk.
- FDOT input needed.

Kimley»Horn

Next Steps

	Jan	Feb	Mar	Apr	May	Jun
Stakeholder Review of Draft SRTS Plans						
Finalize Recommendations						
Submit Applications						
Prepare and Submit Report						



Safe Routes to School

2014 Infrastructure Plans



MIAMI-DADE METROPOLITAN PLANNING ORGANIZATION



WORK ORDER # V-25



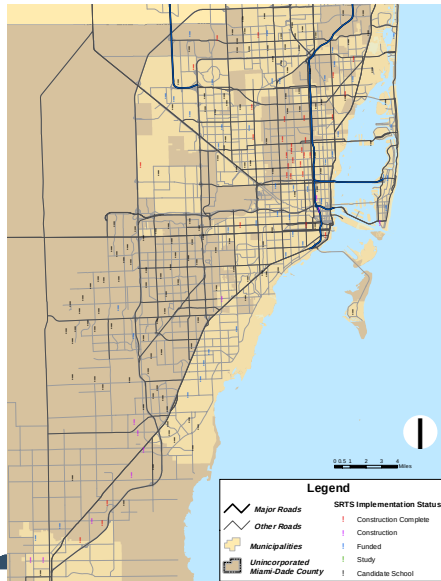
March 12, 2015

Kimley»Horn

040829043

WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

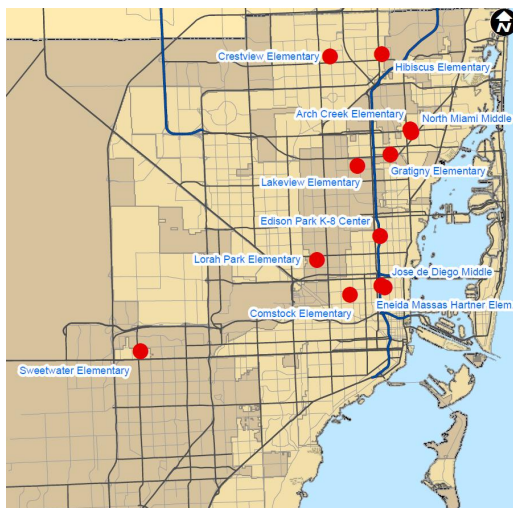
SRTS Program Status



- SRTS plans have been developed for over 85 elementary/K-8 schools.
- 43 projects are complete or in construction phase.

Kimley»Horn

Selected Schools for 2014



1. Arch Creek Elementary (including North Miami Middle)
2. Comstock Elementary
3. Crestview Elementary
4. Edison Park K-8 Center
5. Eneida Massas Hartner Elementary (including Jose De Diego Middle)
6. Gratigny Elementary
7. Hibiscus Elementary
8. Lakeview Elementary
9. Lorah Park Elementary
10. Sweetwater Elementary

SRTS Plan Development Process

- Identify schools for SRTS infrastructure improvements.
- Review previously established SRTS plans.
- Conduct field reviews – primary focus on a 0.5-mile radius.
- Meet with school staff.
- Conduct student travel mode surveys.
- Develop preliminary plans and cost estimates.
- Review of plans by stakeholder agencies. ←
- Prepare grant applications. ←

Typical Recommendations

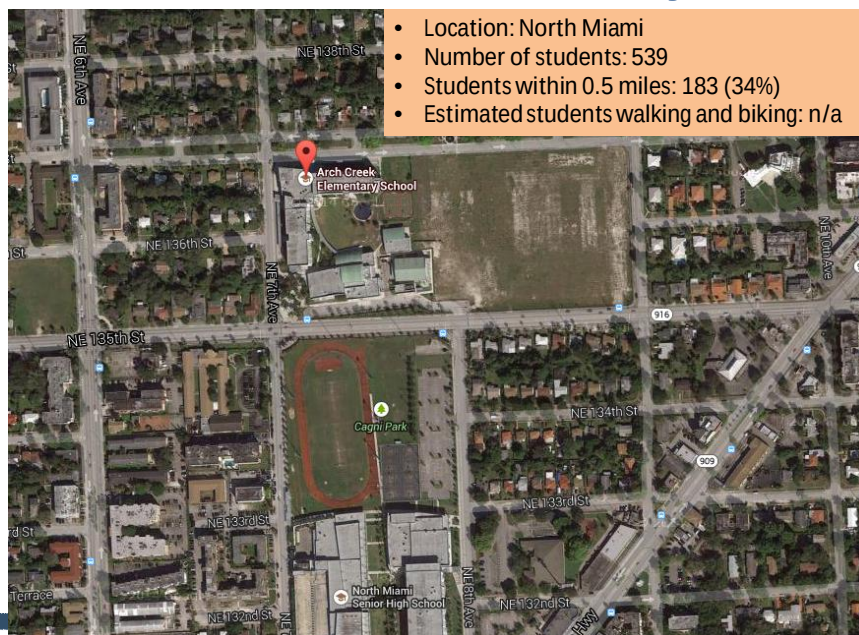
- Install new crosswalks or improve existing crossings
- Install new sidewalks or reconstruct substandard sidewalks.
- Upgrade signs within school speed zone.
- Upgrade pedestrian signal features.
- Eliminate potential safety hazards:
 - Trim overgrown trees that block signs.
 - Prohibit parking too close to crossings.
- Upgrade substandard ADA facilities.

Summary of Cost Estimates

School	Requested TAP Funding*	Contingency (Local Funds)	Total Cost
Arch Creek Elementary	\$212,345.49	\$23,681.65	\$236,027.14
Comstock Elementary	\$181,904.36	\$20,286.73	\$202,191.09
Crestview Elementary	\$136,222.90	\$15,192.15	\$151,415.05
Edison Park K-8 Center	\$206,512.91	\$23,031.18	\$229,544.09
Eneida Massas Hartner Elementary	\$177,036.85	\$19,743.89	\$196,780.73
Gratigny Elementary	\$325,086.84	\$36,255.04	\$361,341.88
Hibiscus Elementary	\$74,746.97	\$8,336.09	\$83,083.06
Lakeview Elementary	\$178,648.84	\$19,923.66	\$198,572.51
Lorah Park Elementary	\$175,765.04	\$19,602.05	\$195,367.09
Sweetwater Elementary	\$217,168.74	\$24,219.51	\$241,387.74
Total	\$1,885,438.94	\$210,271.95	\$2,095,710.38

* Includes construction, preliminary engineering, construction engineering inspection, maintenance of traffic and mobilization costs.

Arch Creek Elementary



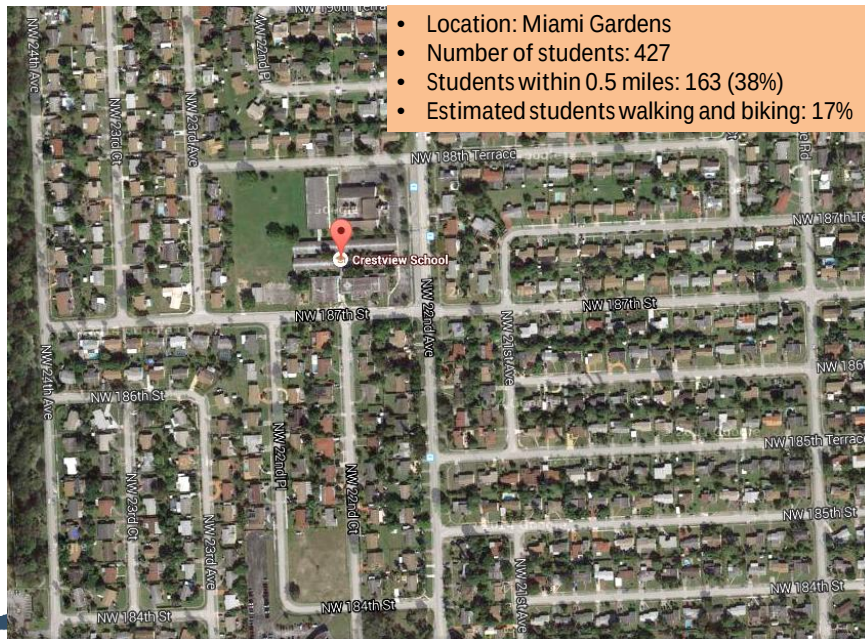
WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Arch Creek Elementary

(Including North Miami Middle School)

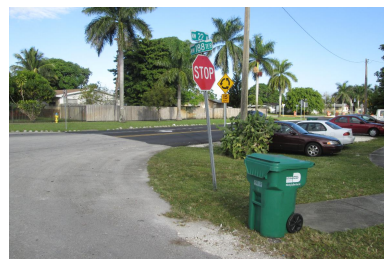
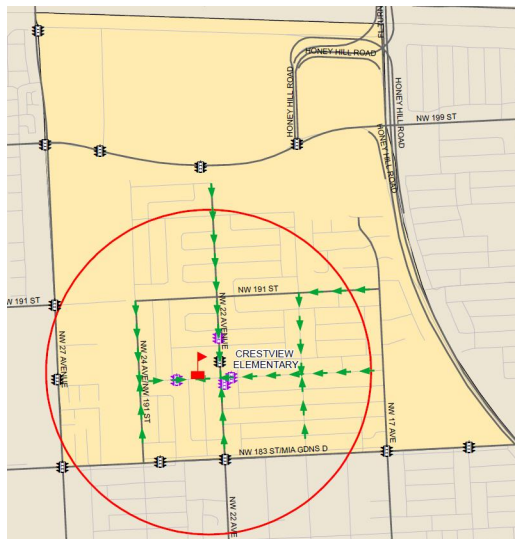


Crestview Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

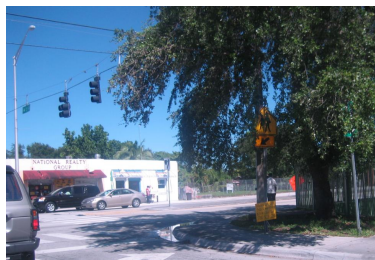
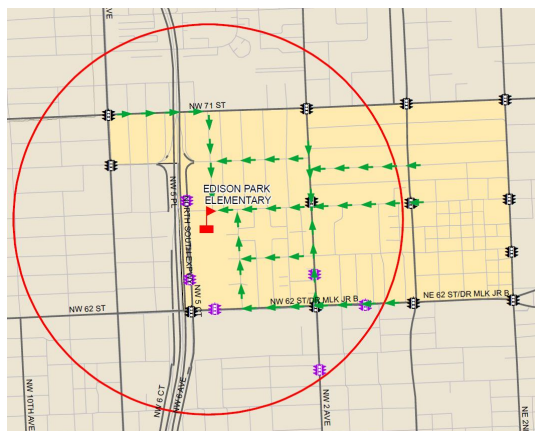
Crestview Elementary

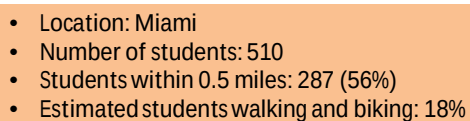


Kimley»Horn

-
- Location: Miami
 - Number of students: 473
 - Students within 0.5 miles: 256 (54%)
 - Estimated students walking and biking: 54%

Edison Park K-8 Center





Eneida Massas Hartner Elementary

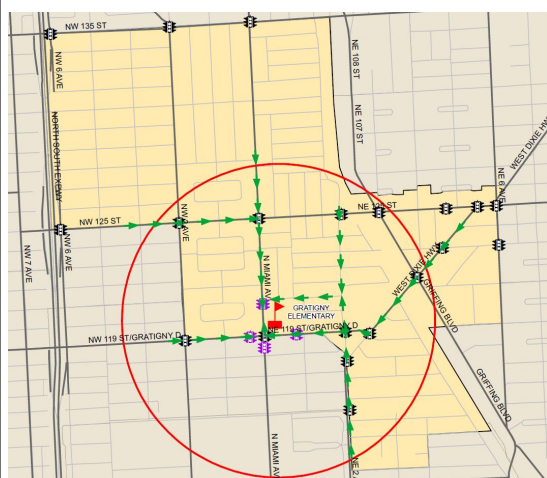
(Including Jose De Diego Middle School)



Gratigny Elementary



Gratigny Elementary

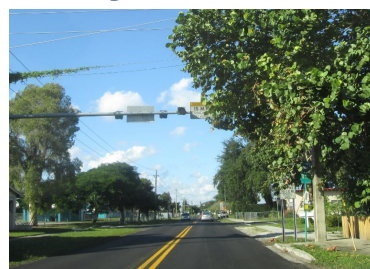
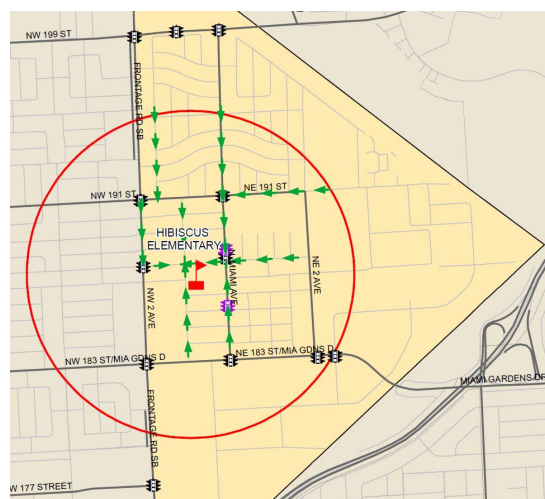


Hibiscus Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Hibiscus Elementary



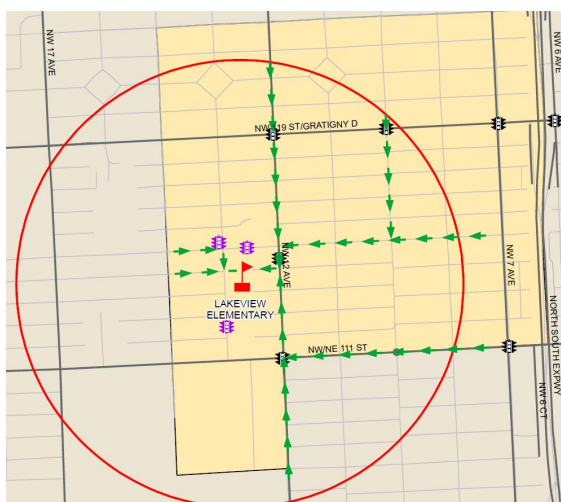
Kimley»Horn

- Location: Miami
- Number of students: 426
- Students within 0.5 miles: 204 (48%)
- Estimated students walking and biking: 32%

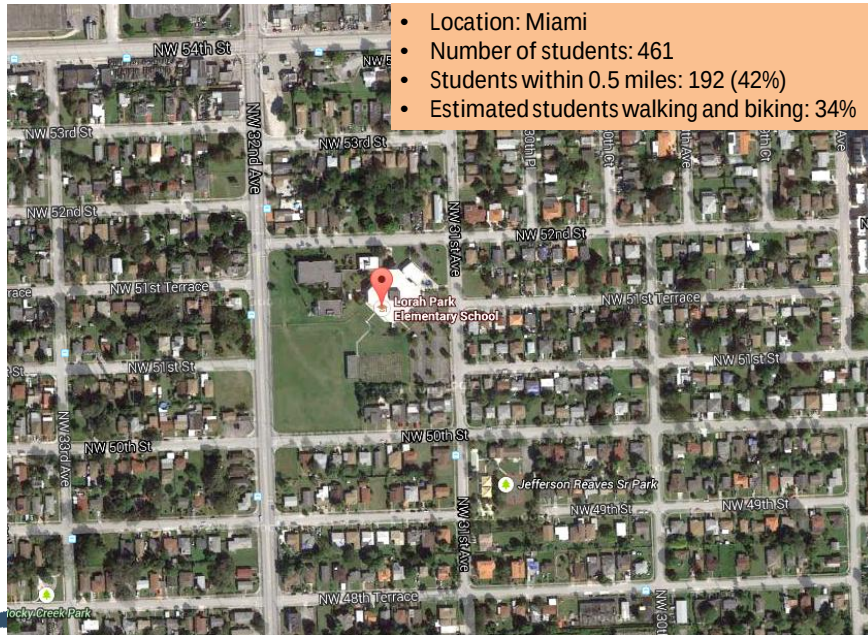


WORK ORDER # **V-25** SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Lakeview Elementary

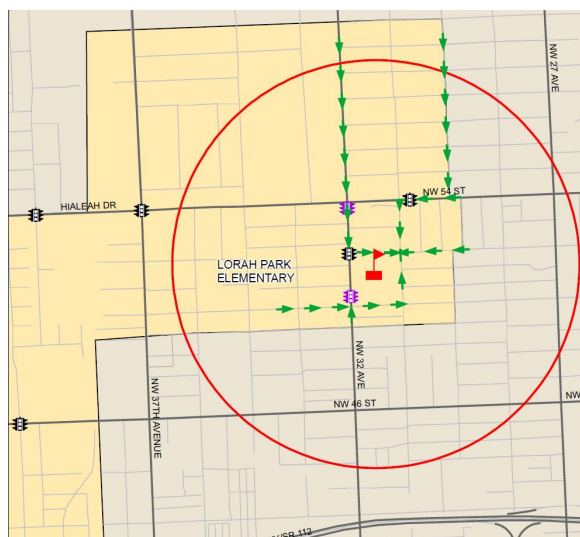


Lorah Park Elementary



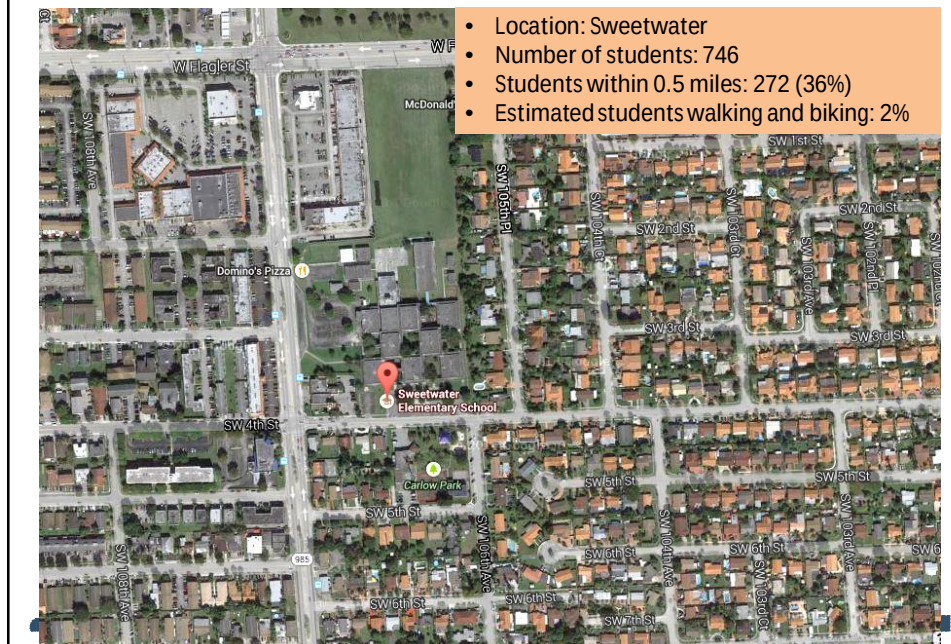
WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Lorah Park Elementary



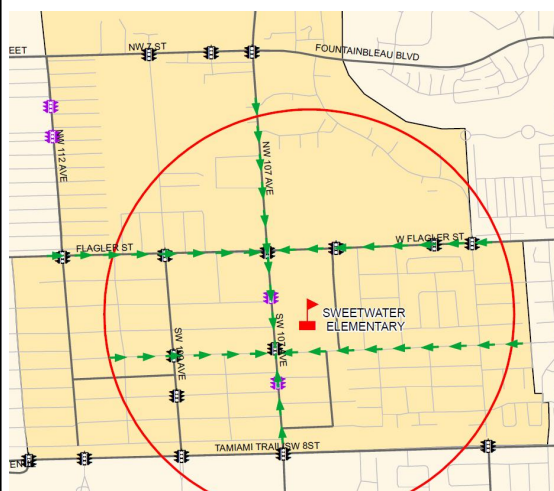
Kimley»Horn

Sweetwater Elementary



WORK ORDER # V-25 SAFE ROUTES TO SCHOOL 2014 INFRASTRUCTURE PLANS

Sweetwater Elementary



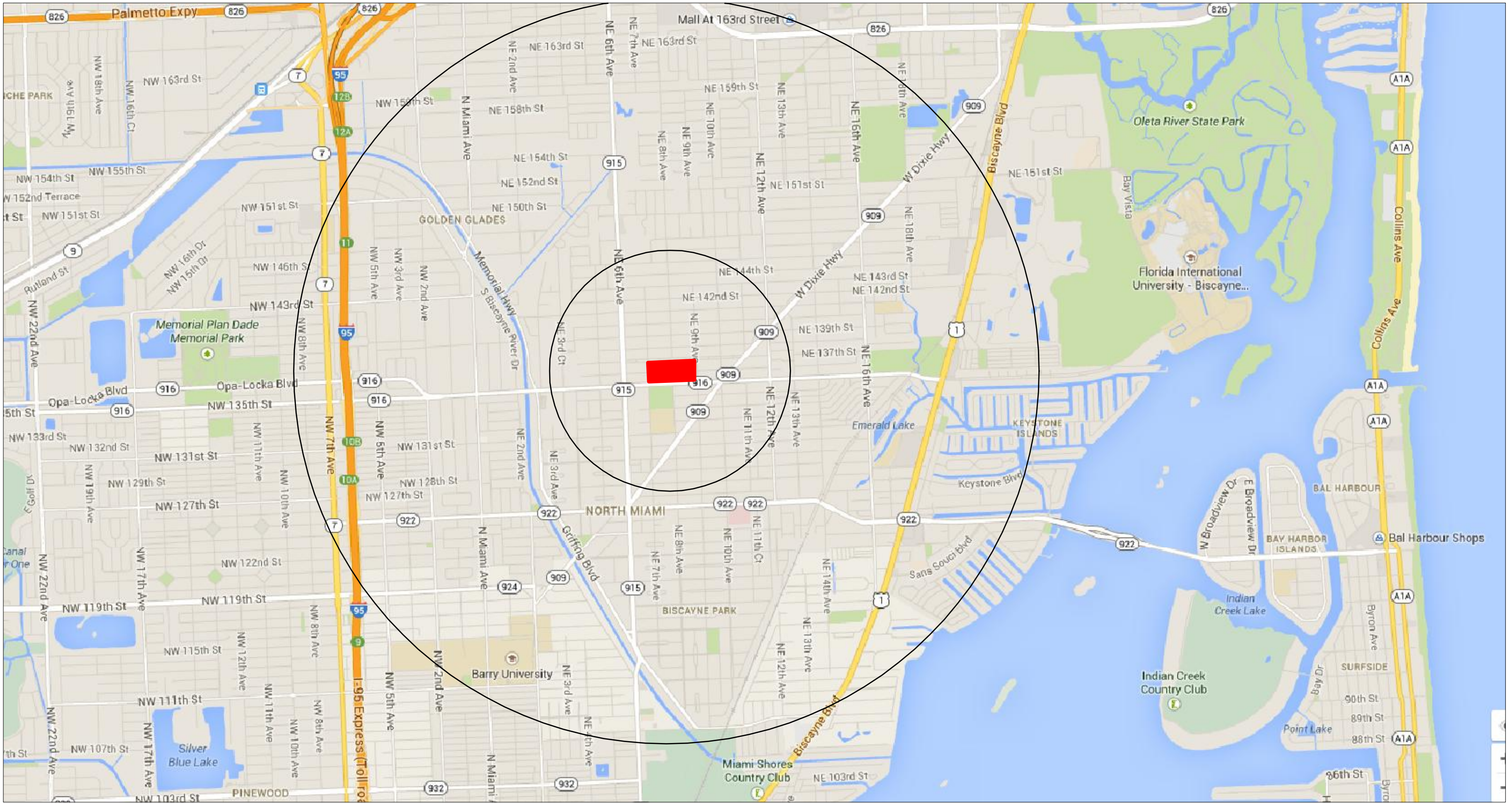
Kimley»Horn

Next Steps

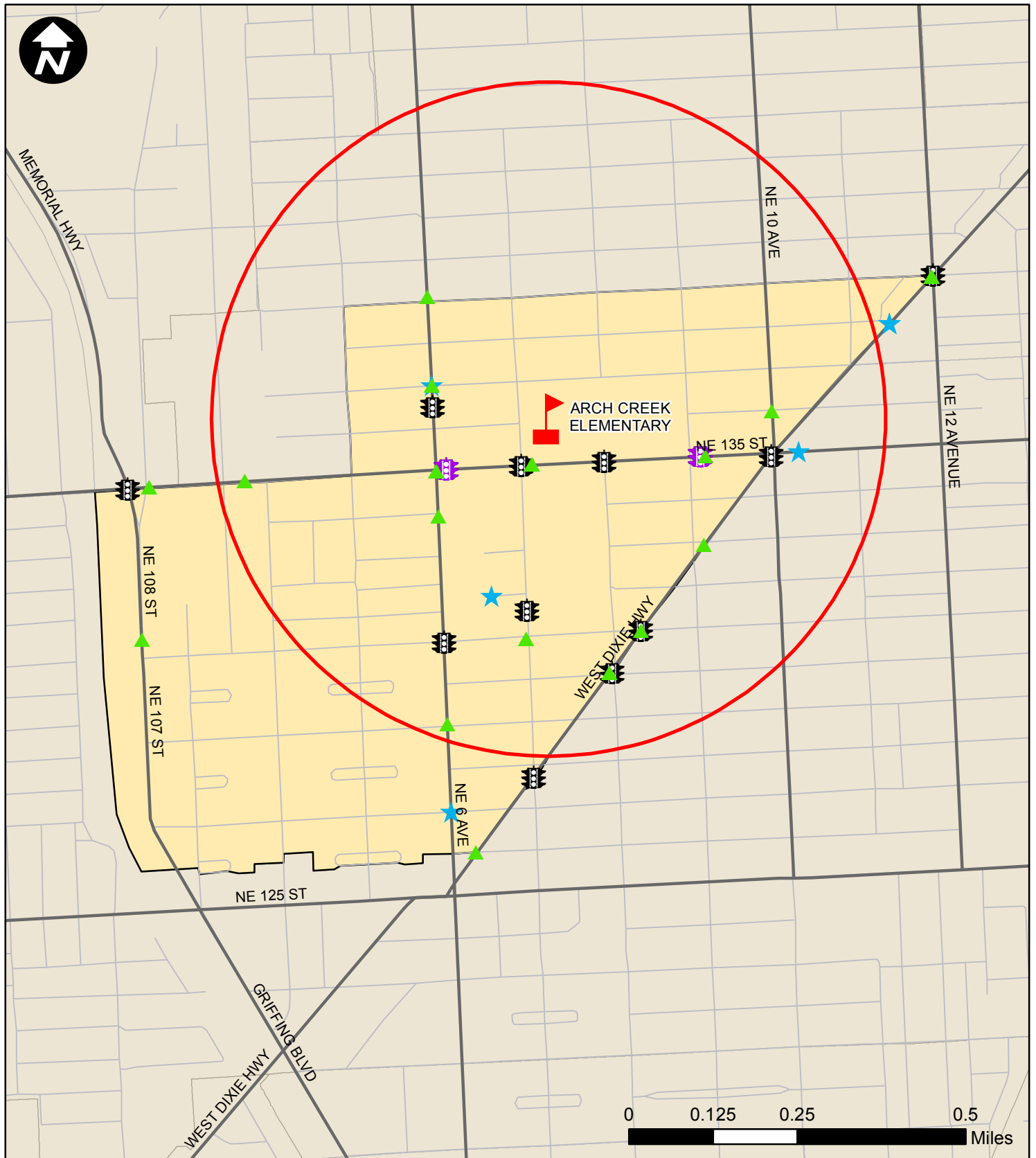
	Jan	Feb	Mar	Apr	May	Jun
Finalize Recommendations						
Prepare and Submit Applications						
Submit Report						

APPENDIX C
EXISTING CONDITIONS MAP SERIES

Arch Creek Elementary
(Including North Miami Middle School)



Arch Creek Elementary



Legend



Study School



Bicycle Crash
(2009-2013)



Pedestrian Crash
(2009-2013)



Traffic Signal



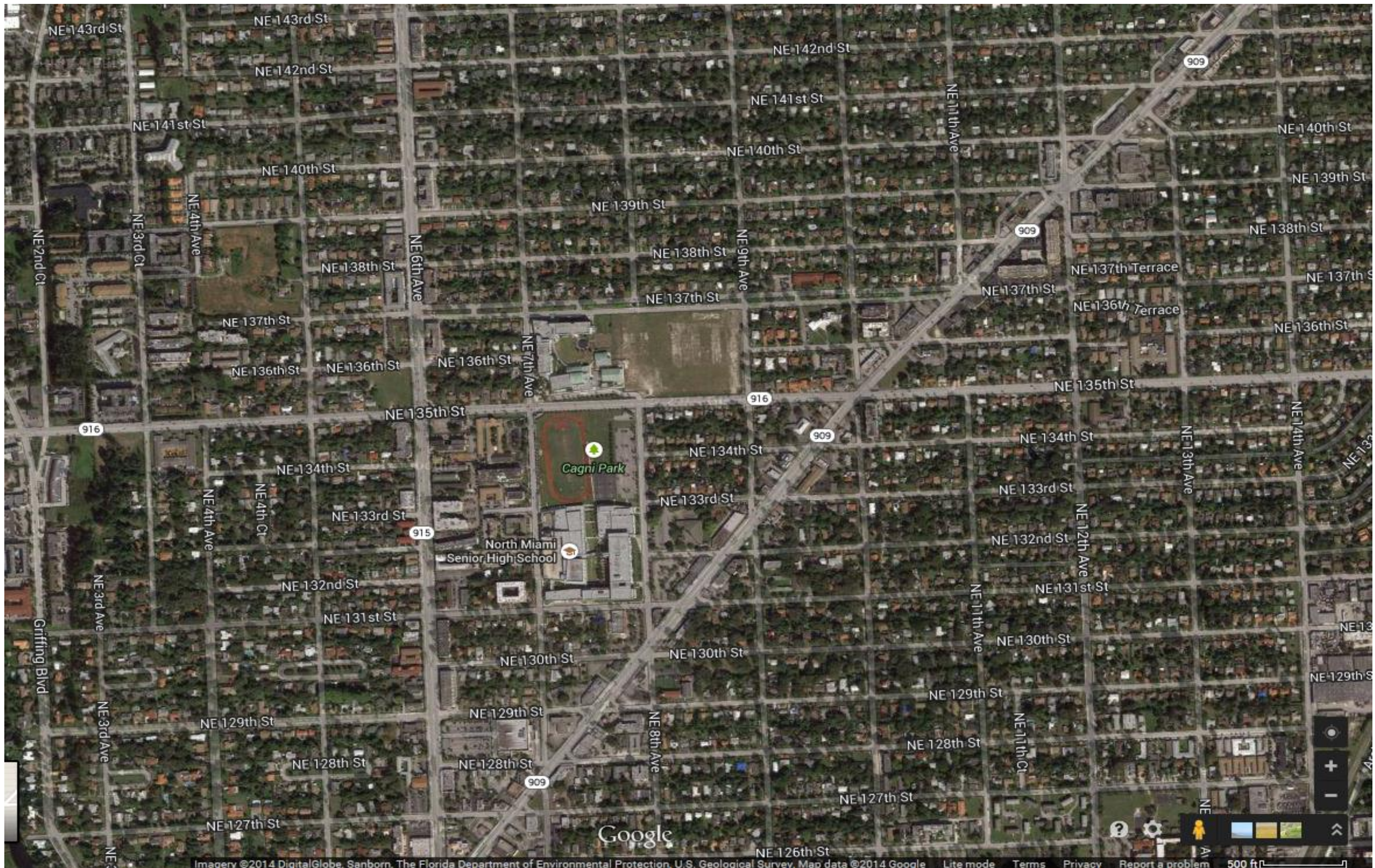
School Flasher

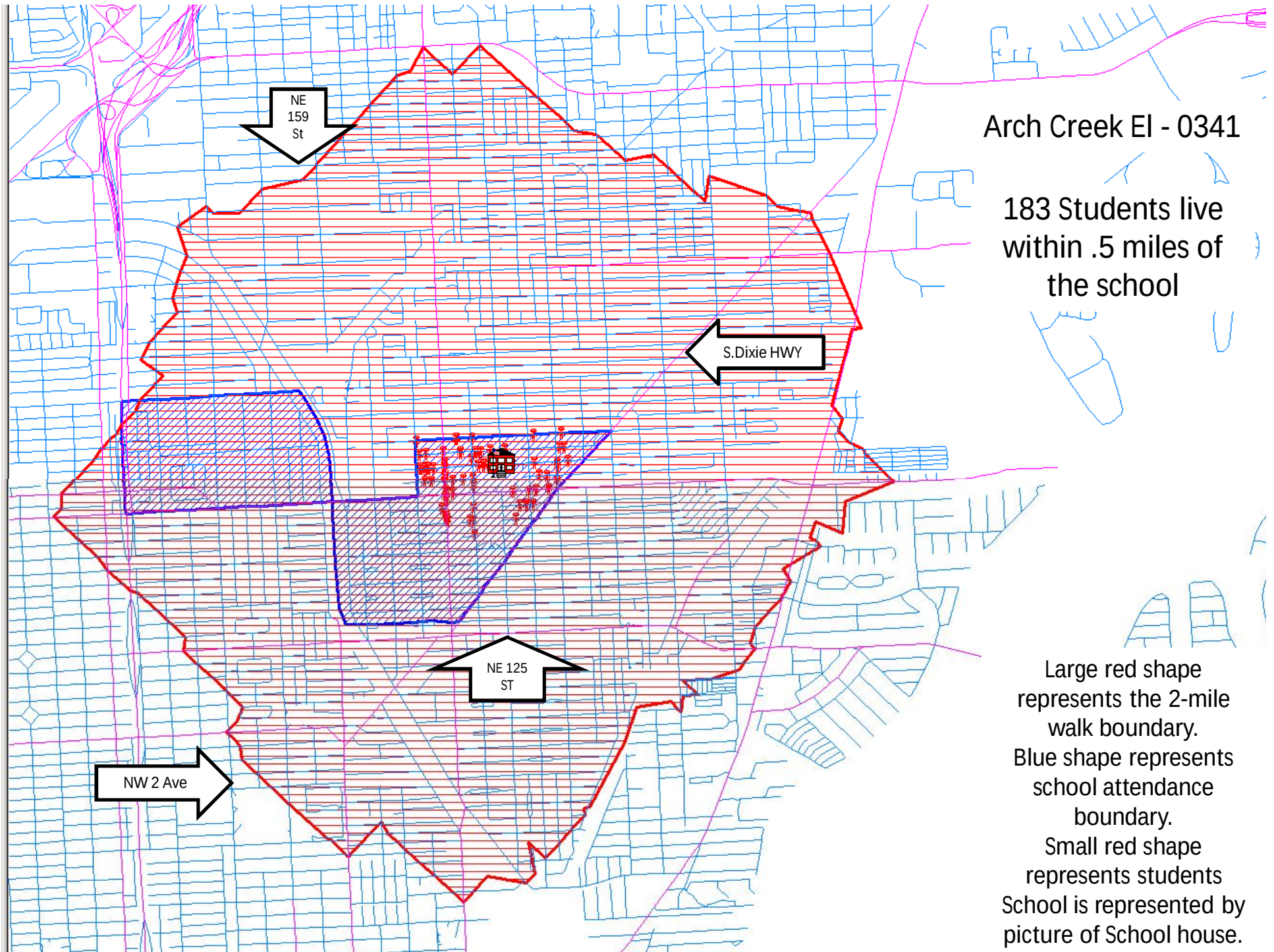
— Major Streets

— Local Streets

Yellow shaded area: School Attendance Boundary

Red circle: 1/2 Mile Radius

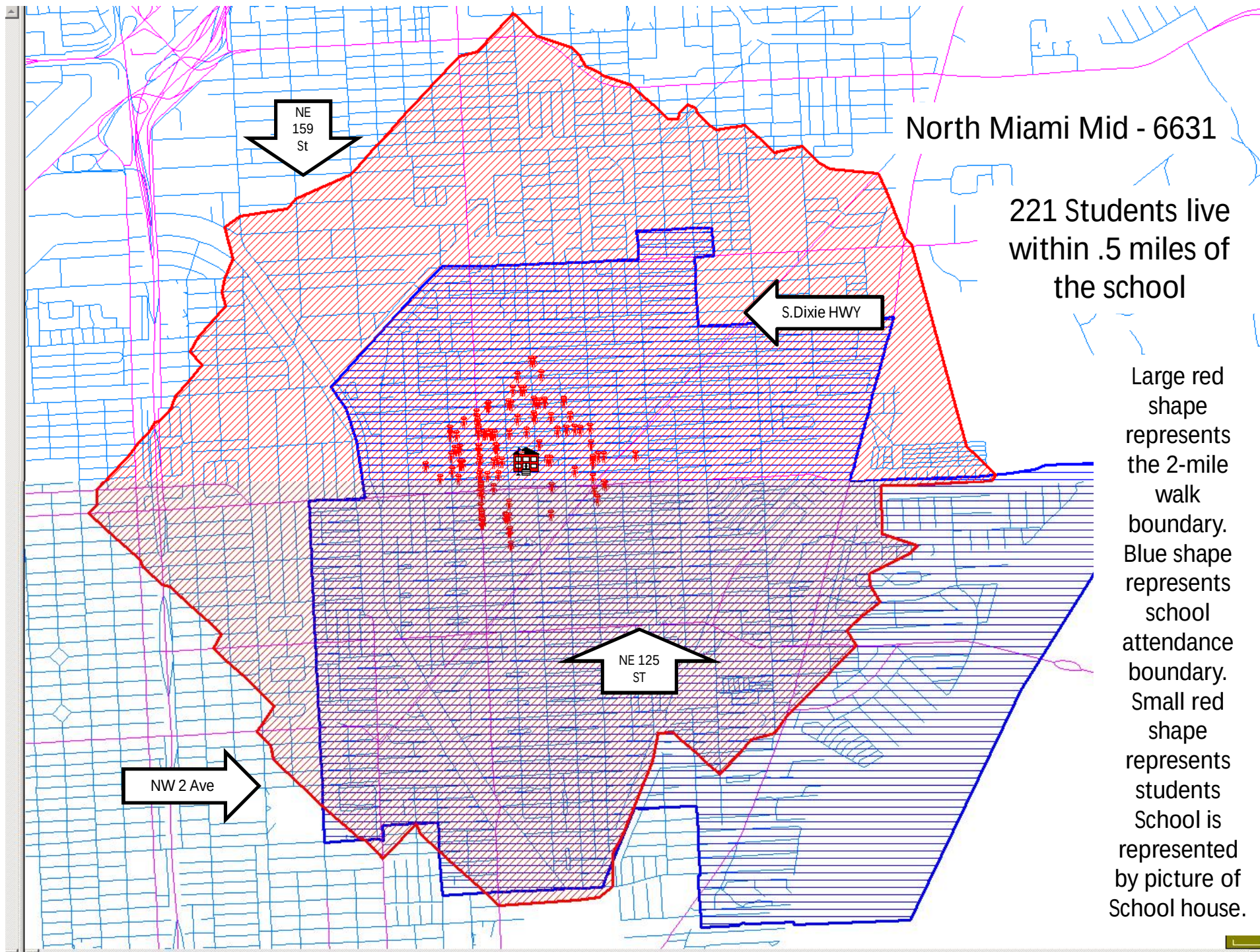




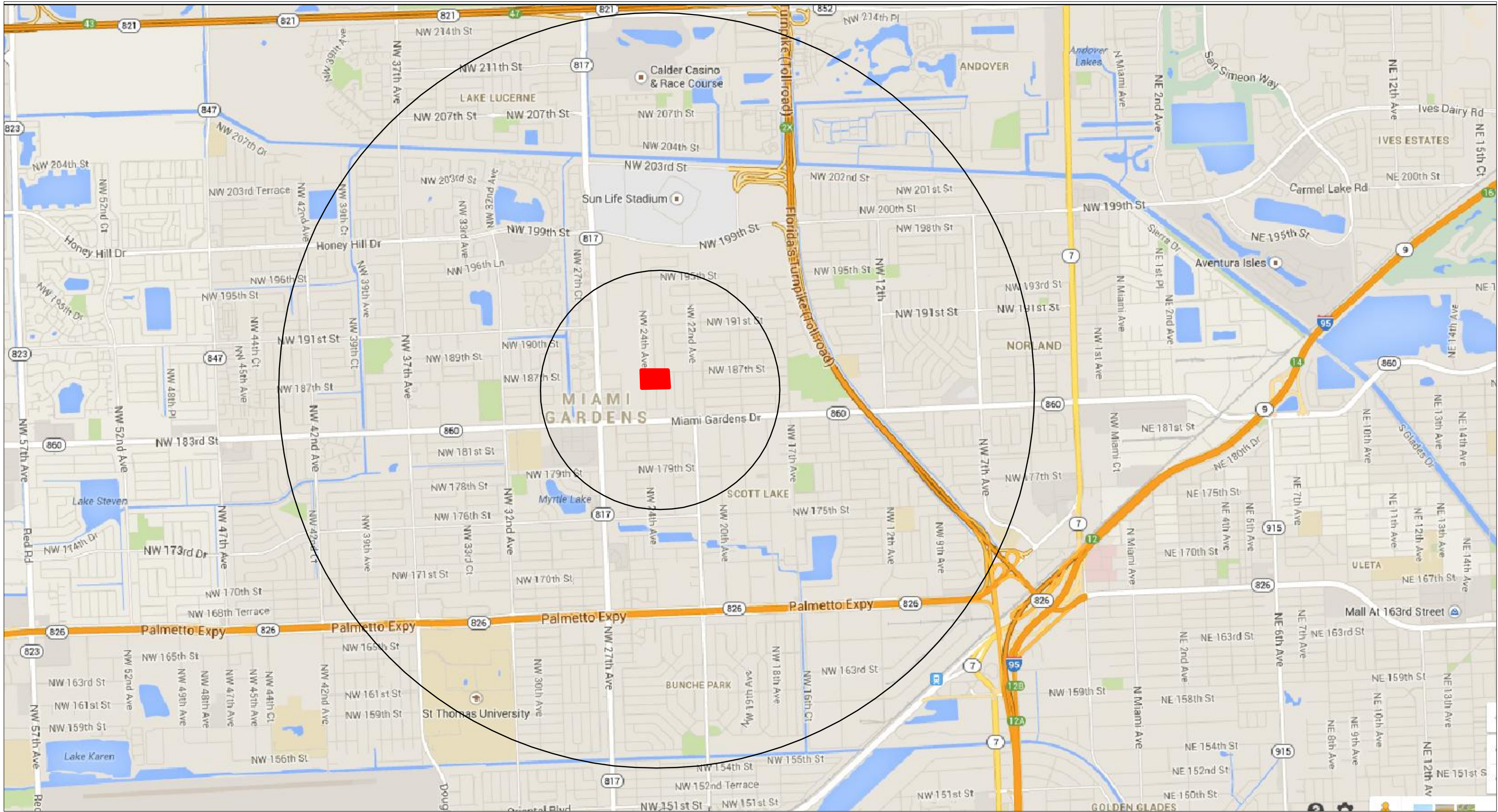
Arch Creek El - 0341

183 Students live
within .5 miles of
the school

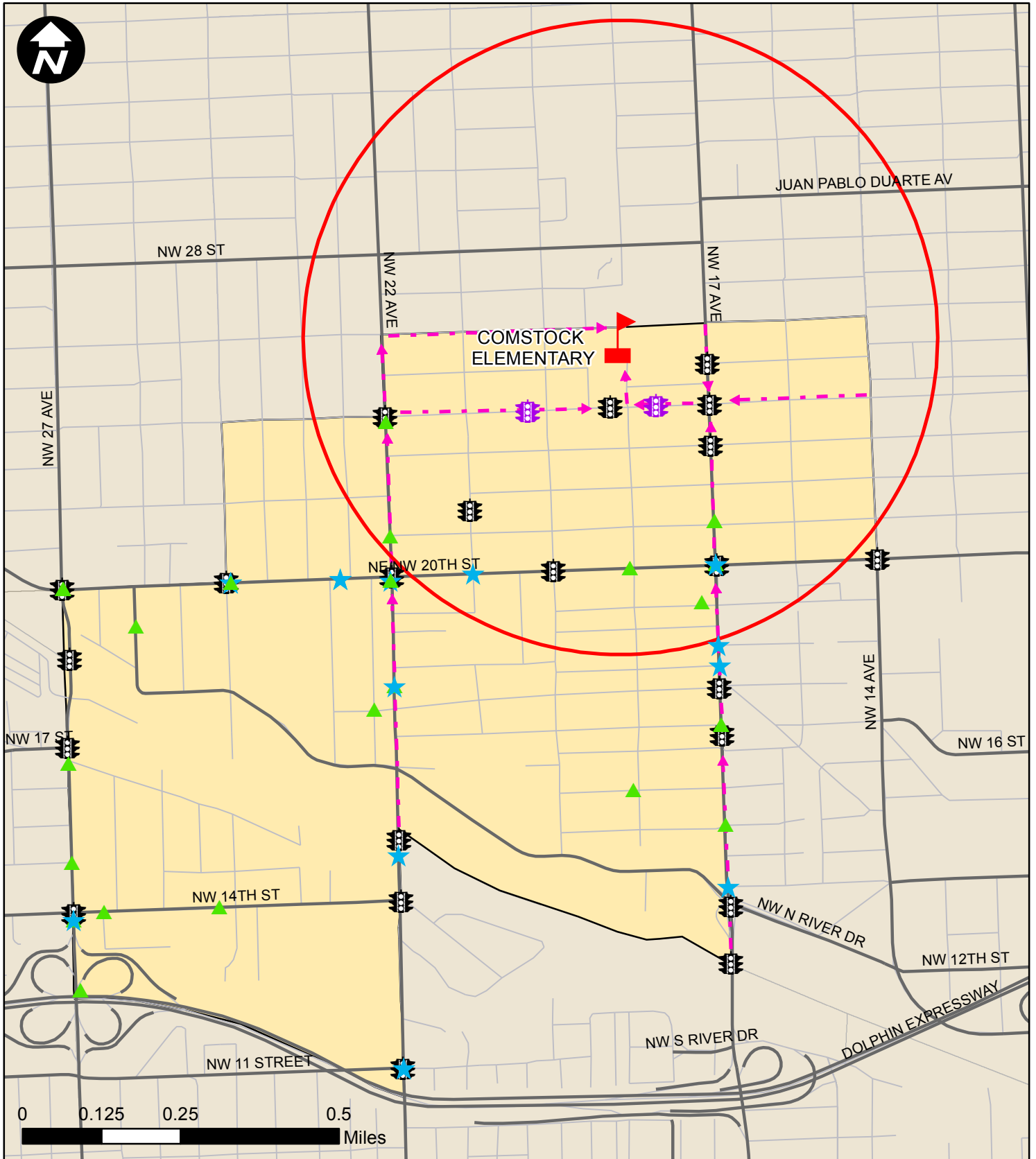
Large red shape
represents the 2-mile
walk boundary.
Blue shape represents
school attendance
boundary.
Small red shape
represents students
School is represented by
picture of School house.



Comstock Elementary



Comstock Elementary



Legend



Study School



Bicycle Crash
(2009-2013)



Pedestrian Crash
(2009-2013)



Traffic Signal



School Flasher



MDC Safe Routes



Major Streets



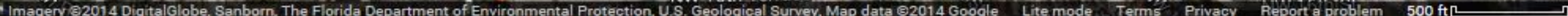
Local Streets



School Attendance
Boundary



1/2 Mile Buffer



Comstock EI - 0881

NW 12 Ave

SR
112

188 Students live
within .5 miles of
the school

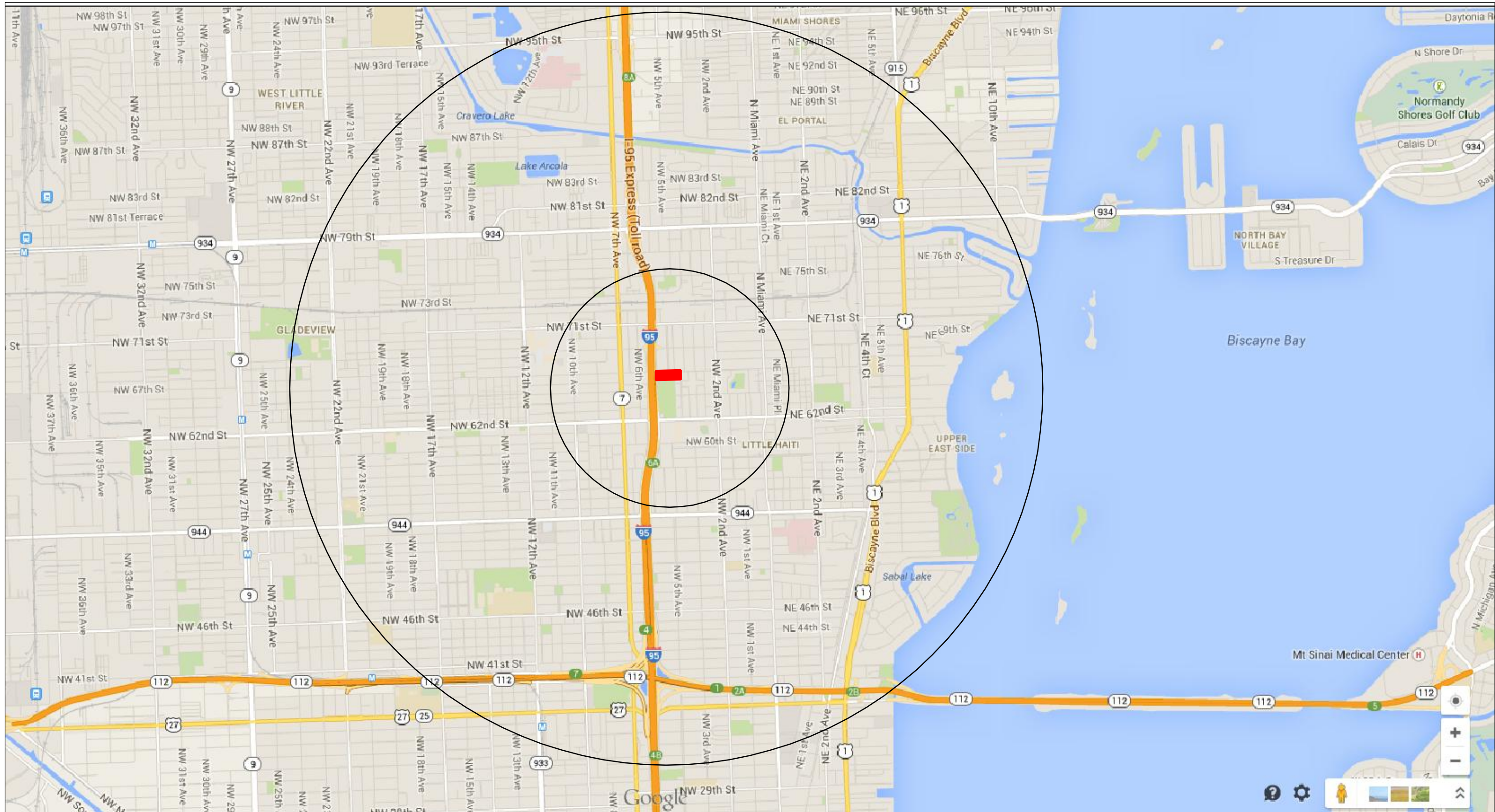
Large red shape
represents the 2-mile
walk boundary.
Blue shape represents
school attendance
boundary.

Small red shape
represents students
School is represented by
picture of School house.

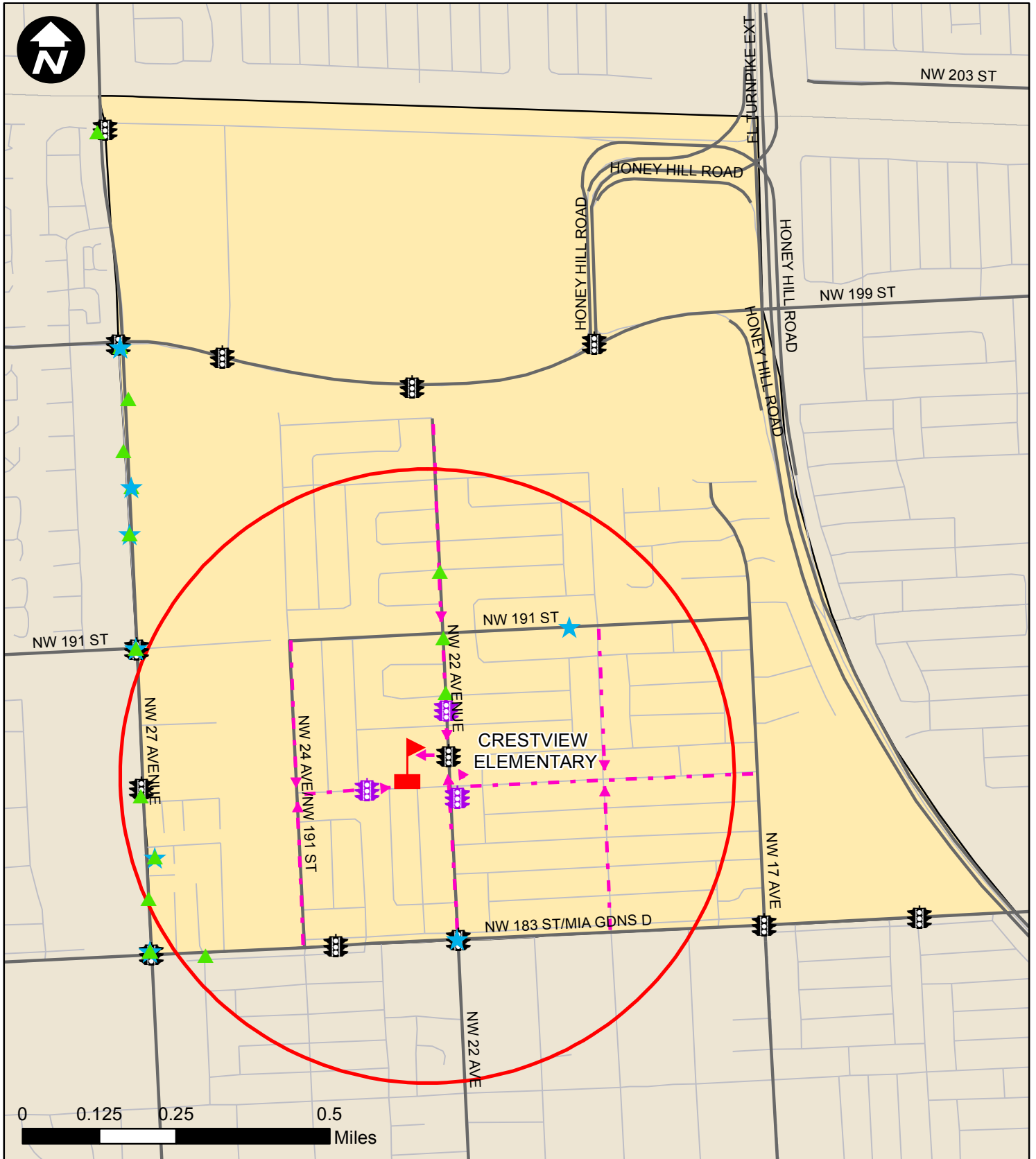
NW 28 Ave

SR 836
EXPY

Crestview Elementary



Crestview Elementary



Legend



Study School



Bicycle Crash
(2009-2013)



Pedestrian Crash
(2009-2013)



Traffic Signal



School Flasher



MDC Safe Routes



Major Streets



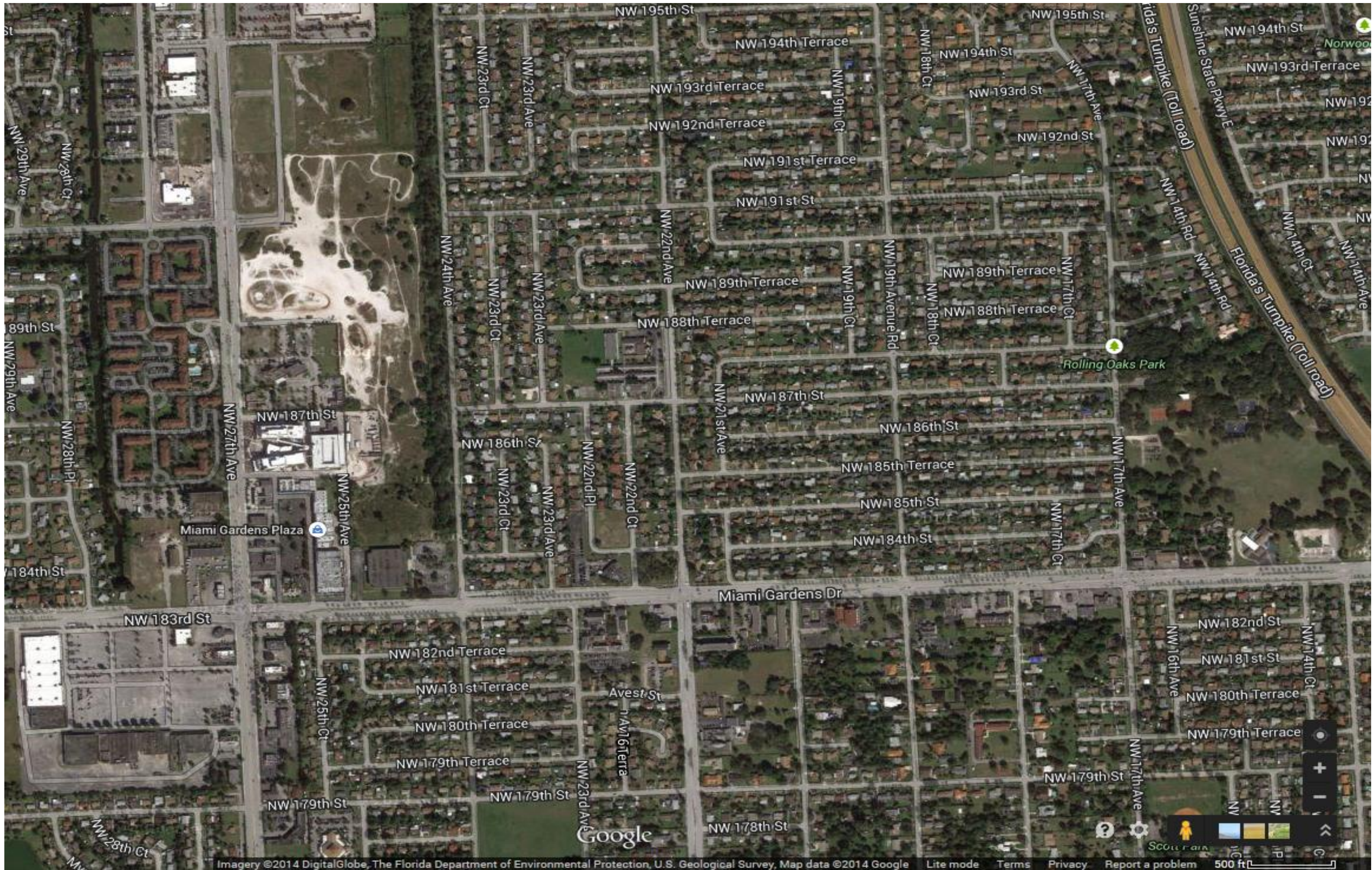
Local Streets

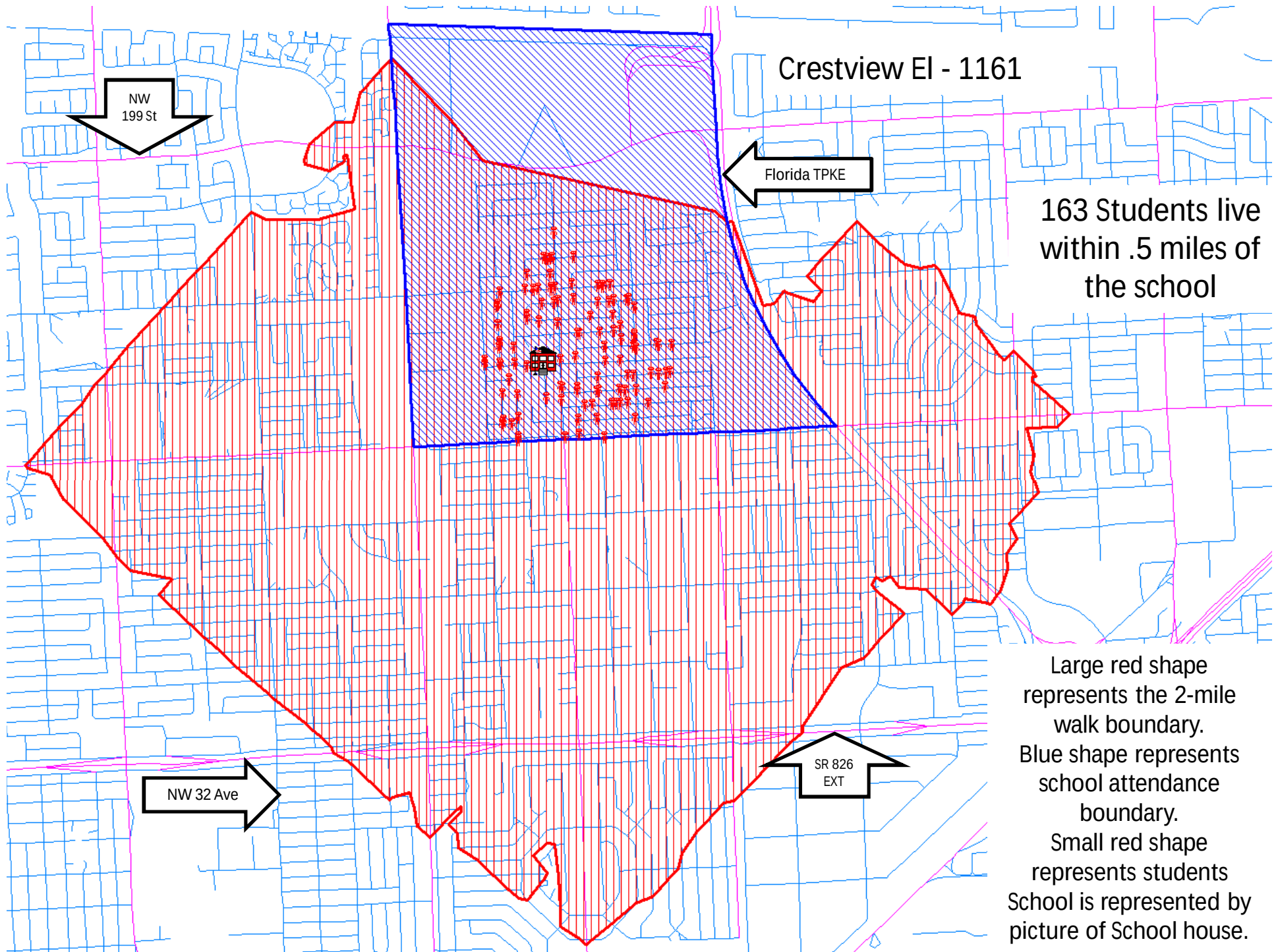


School Attendance
Boundary

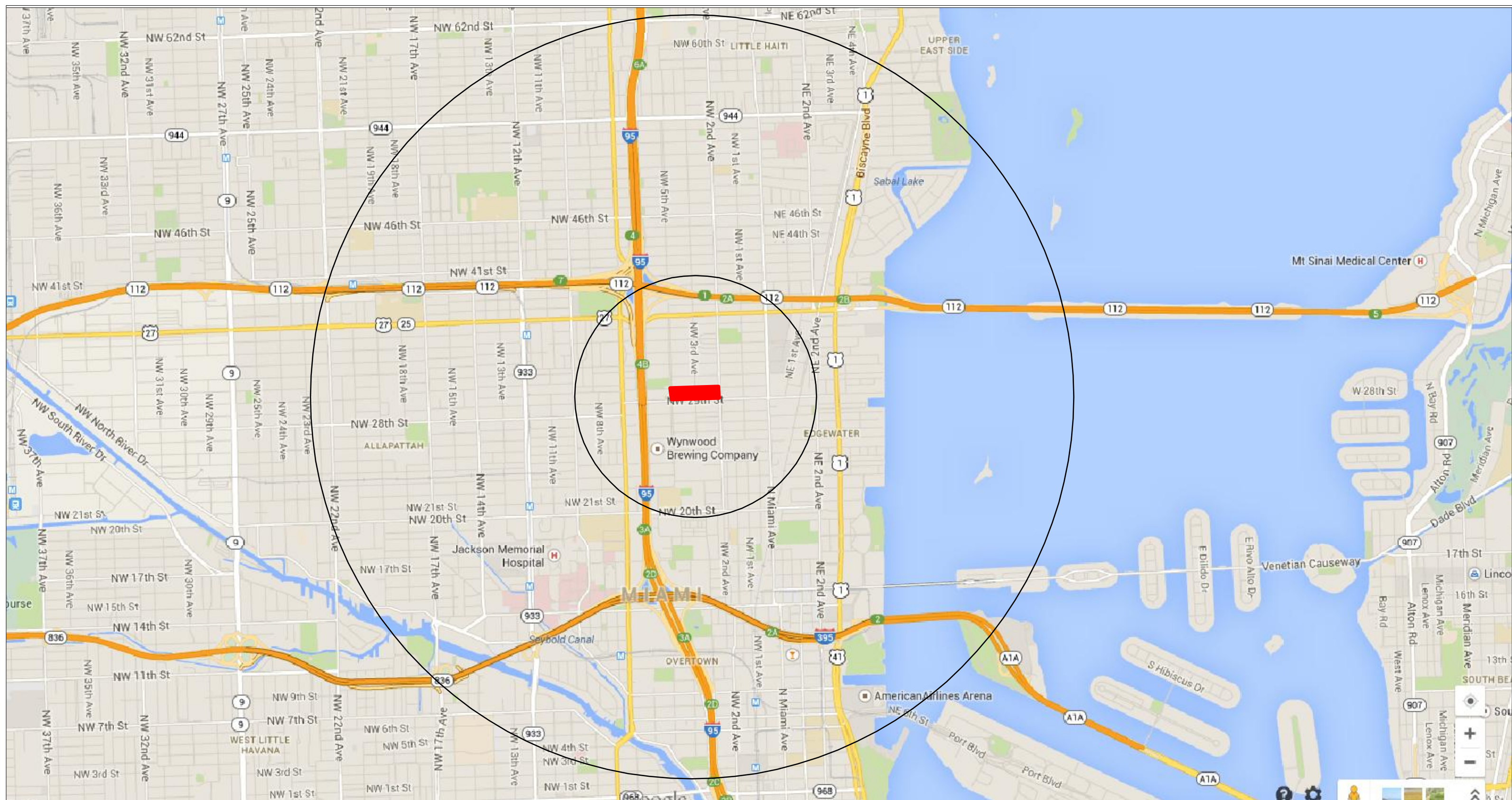


1/2 Mile Buffer

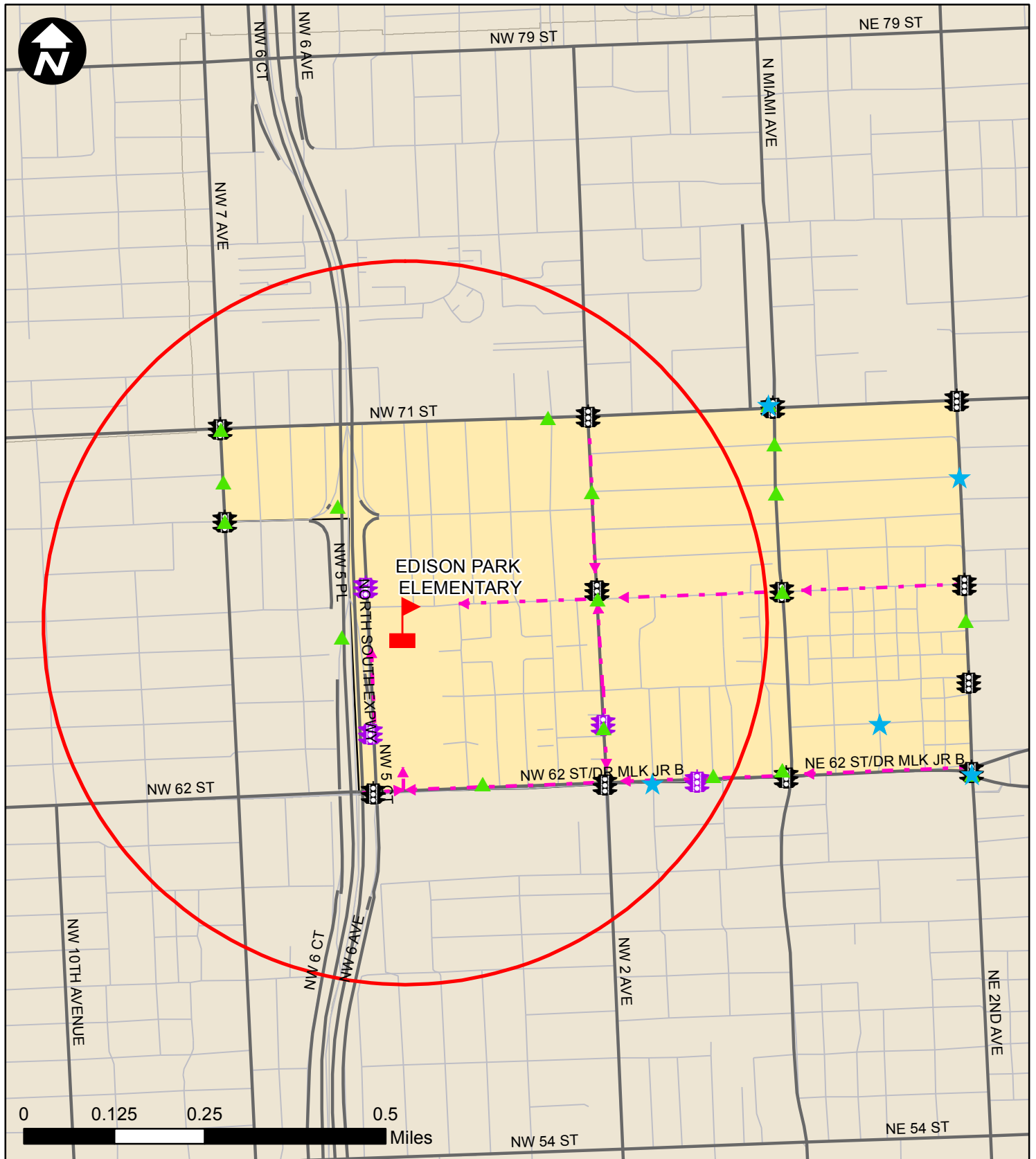




Edison Park K-8 Center



Edison Park Elementary



Legend



Study School



Bicycle Crash
(2009-2013)



Pedestrian Crash
(2009-2013)



Traffic Signal



School Flasher

MDC Safe Routes

Major Streets

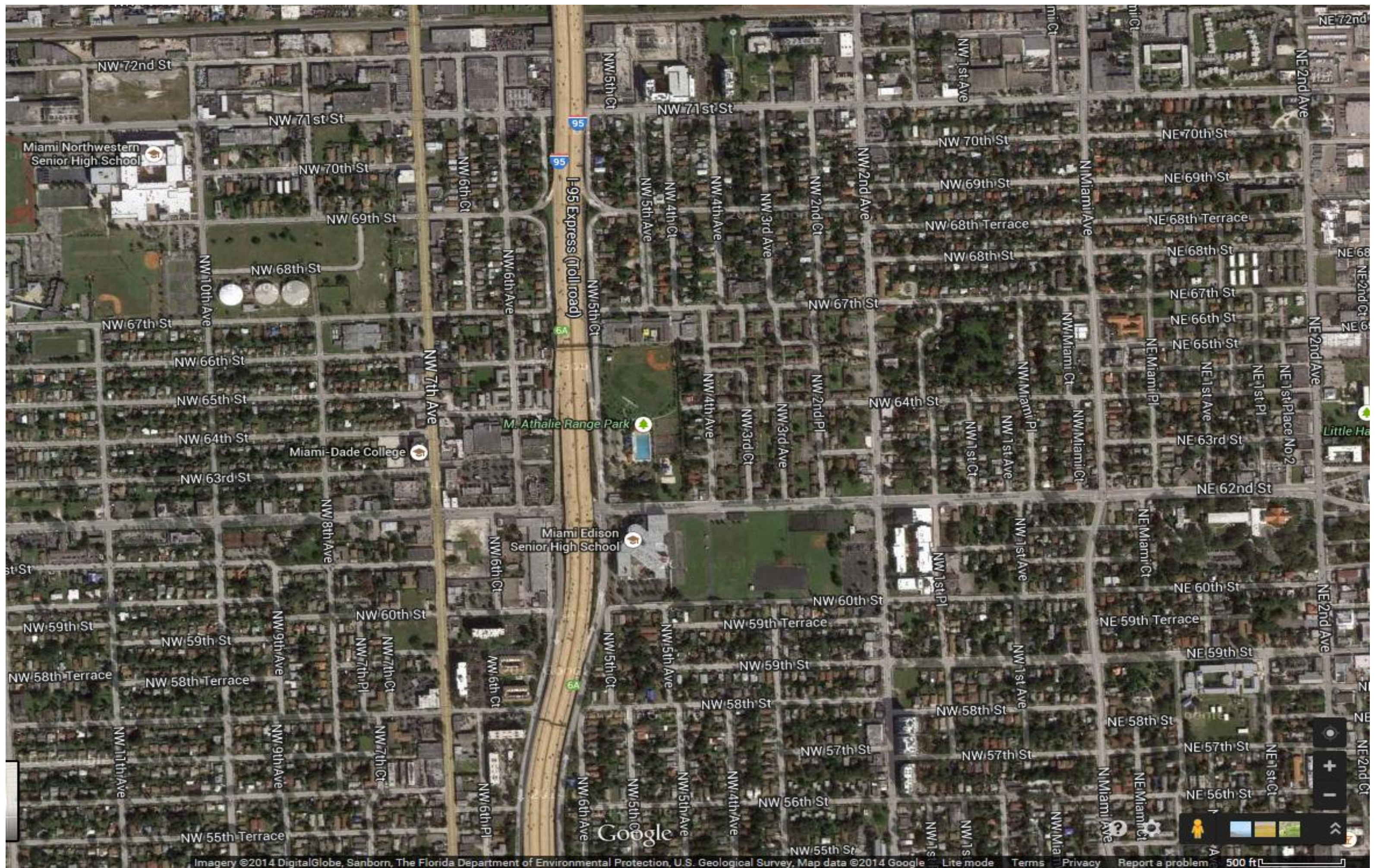
Local Streets



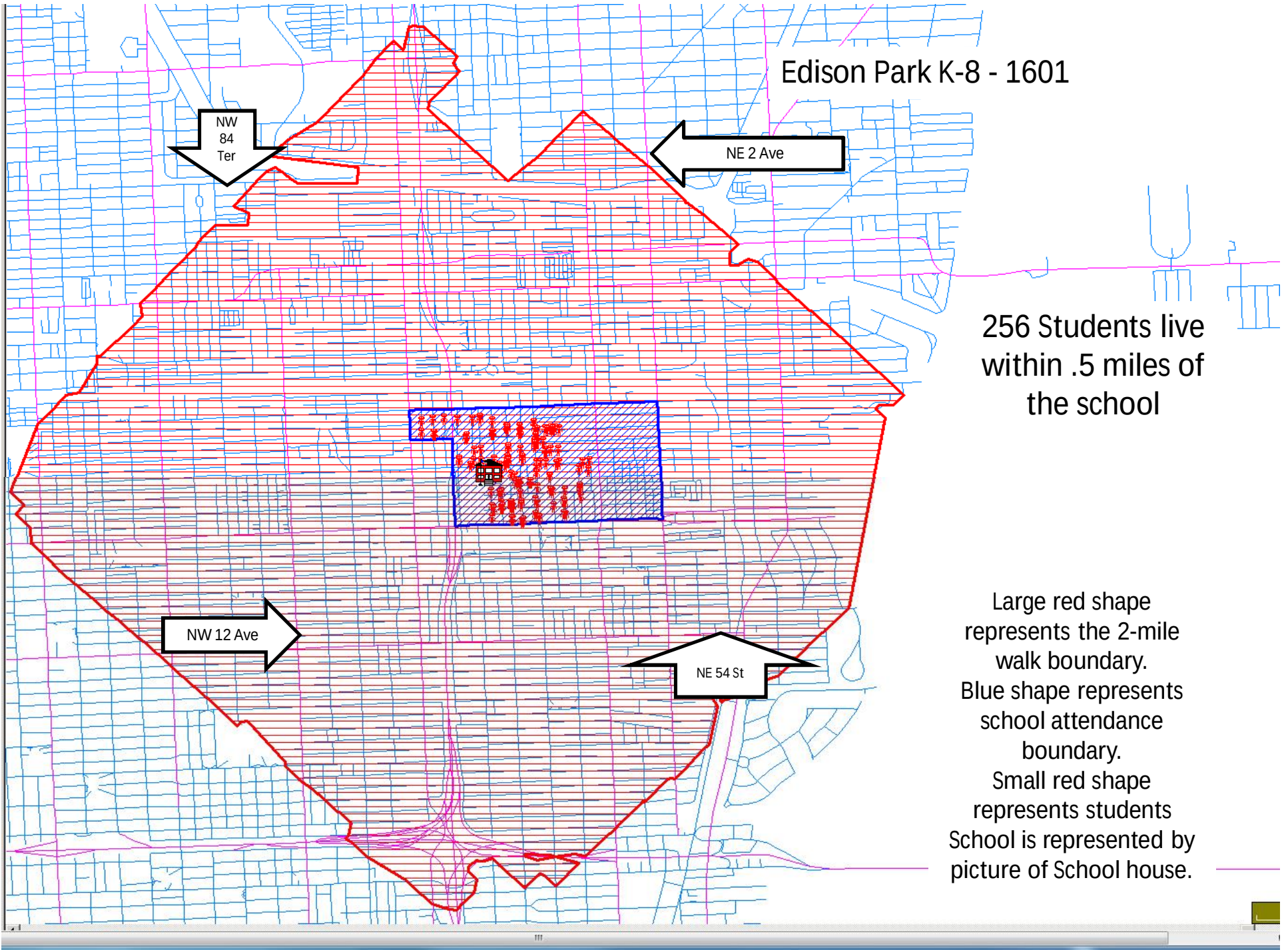
School Attendance
Boundary



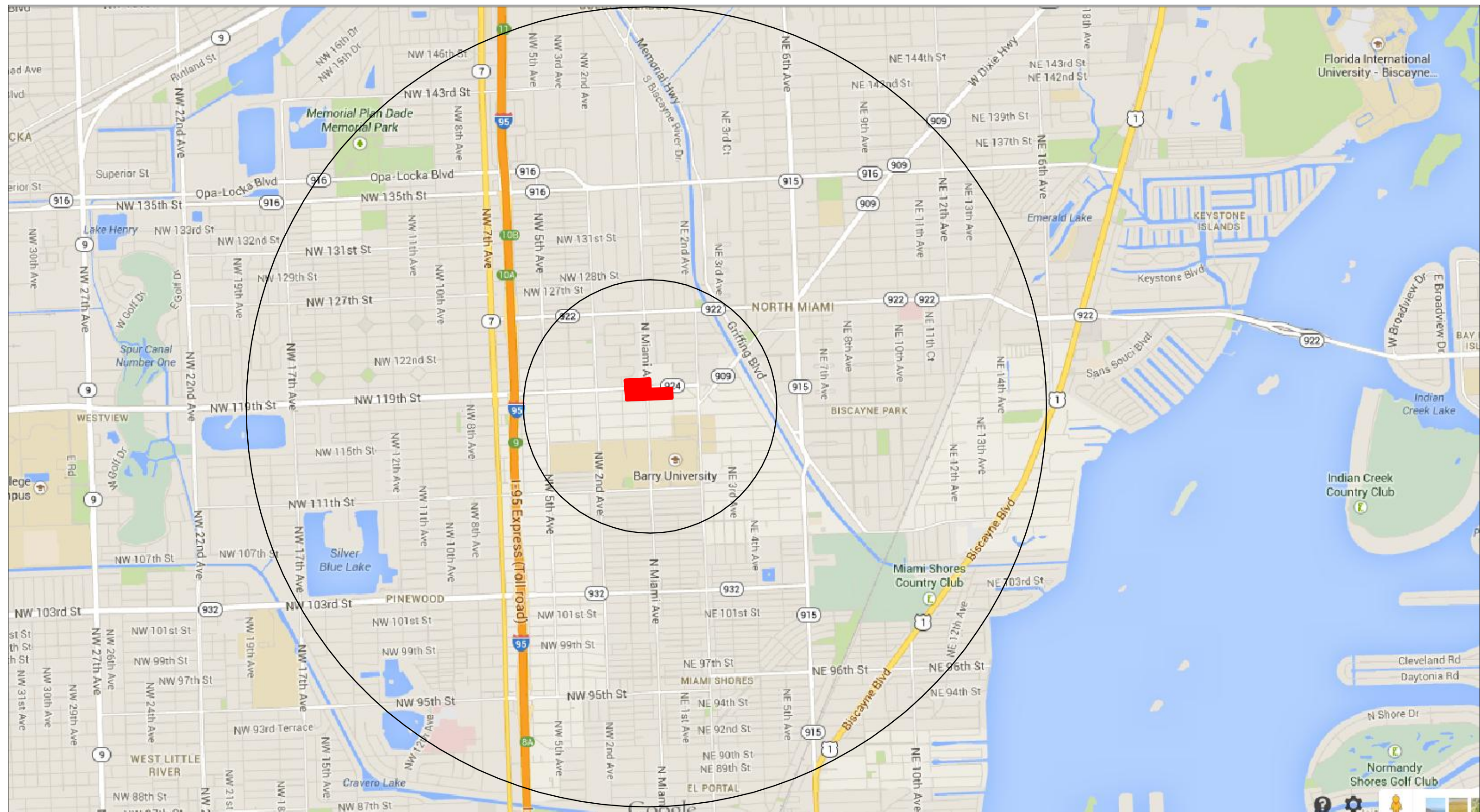
1/2 Mile Buffer



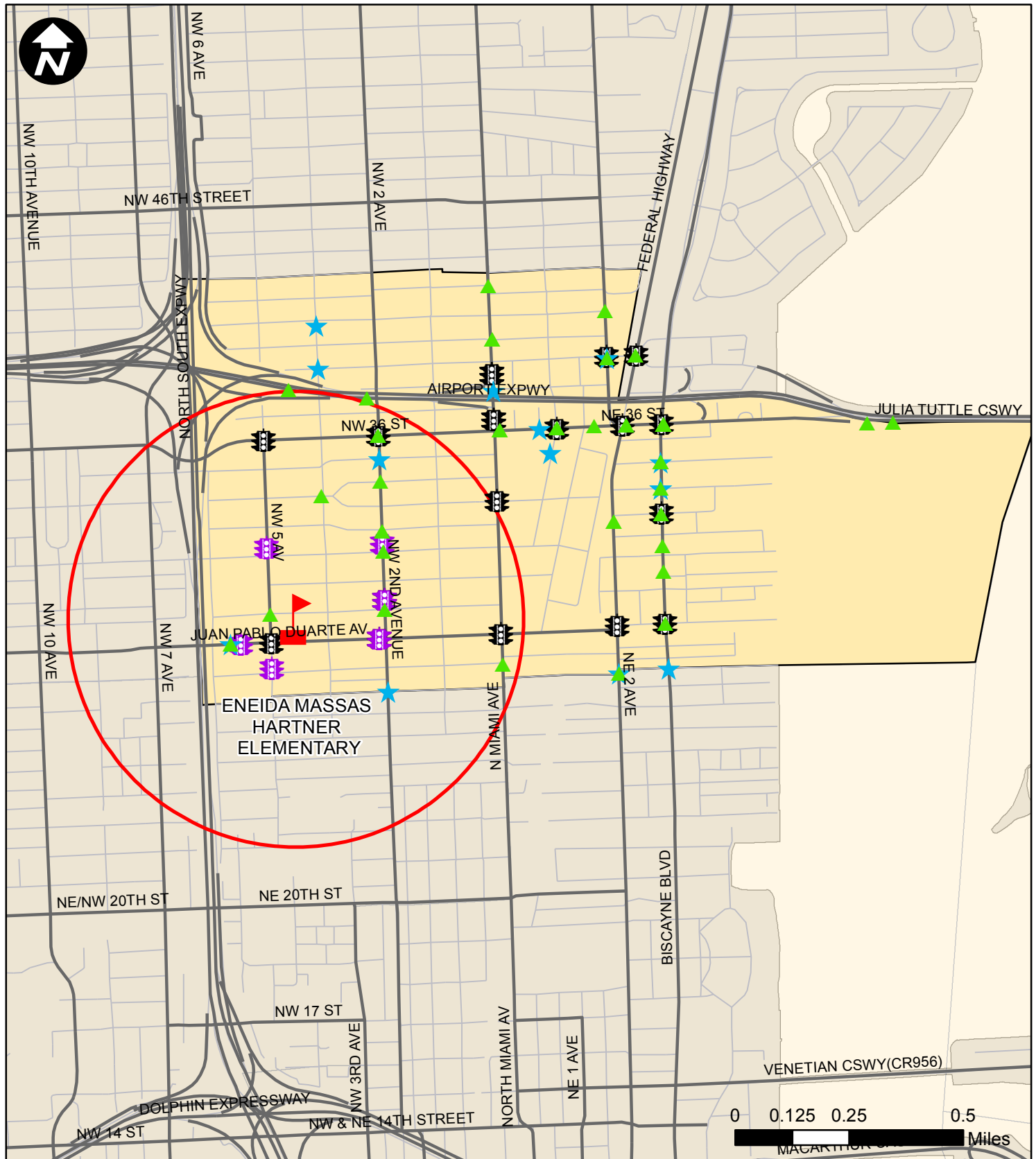
Edison Park K-8 - 1601



Eneida Massas Hartner Elementary
(Including Jose De Diego Middle School)



Eneida Massas Hartner Elementary



Legend



Bicycle Crash
(2009-2013)



Pedestrian Crash (2009-2013)



Traffic Signal



School Flasher



Major Streets



Local Streets

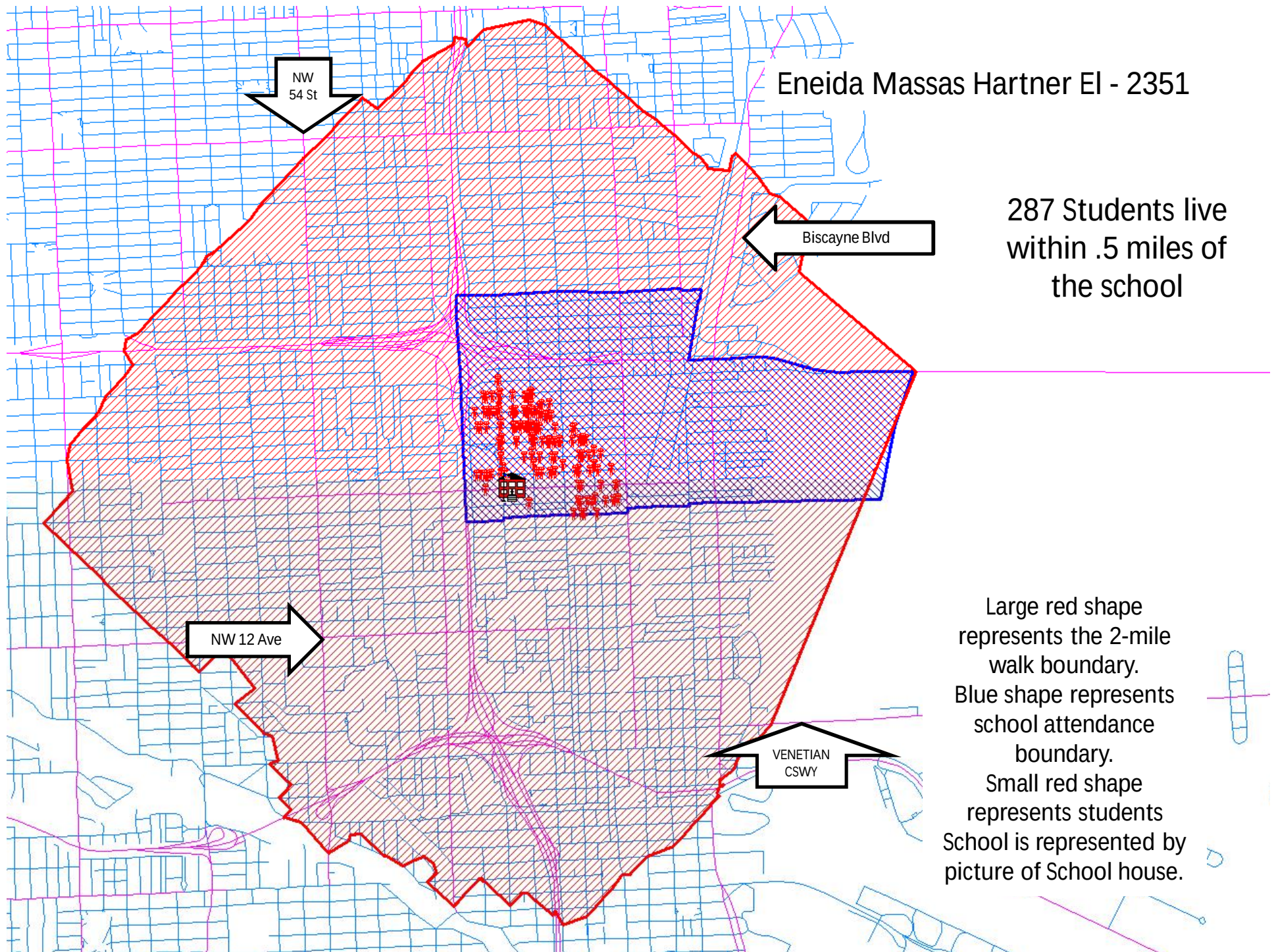


School Attendance Boundary

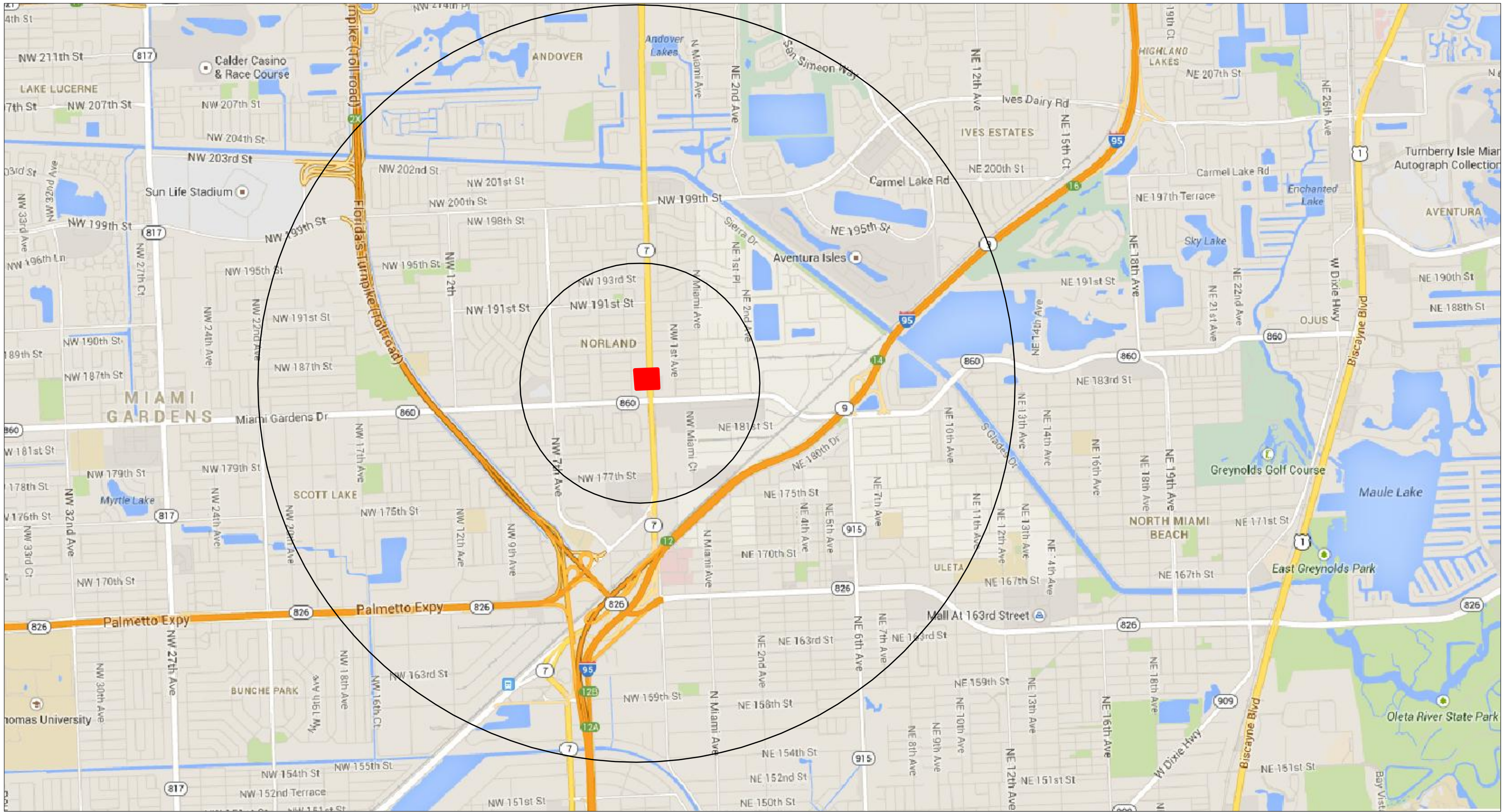


1/2 Mile Buffer

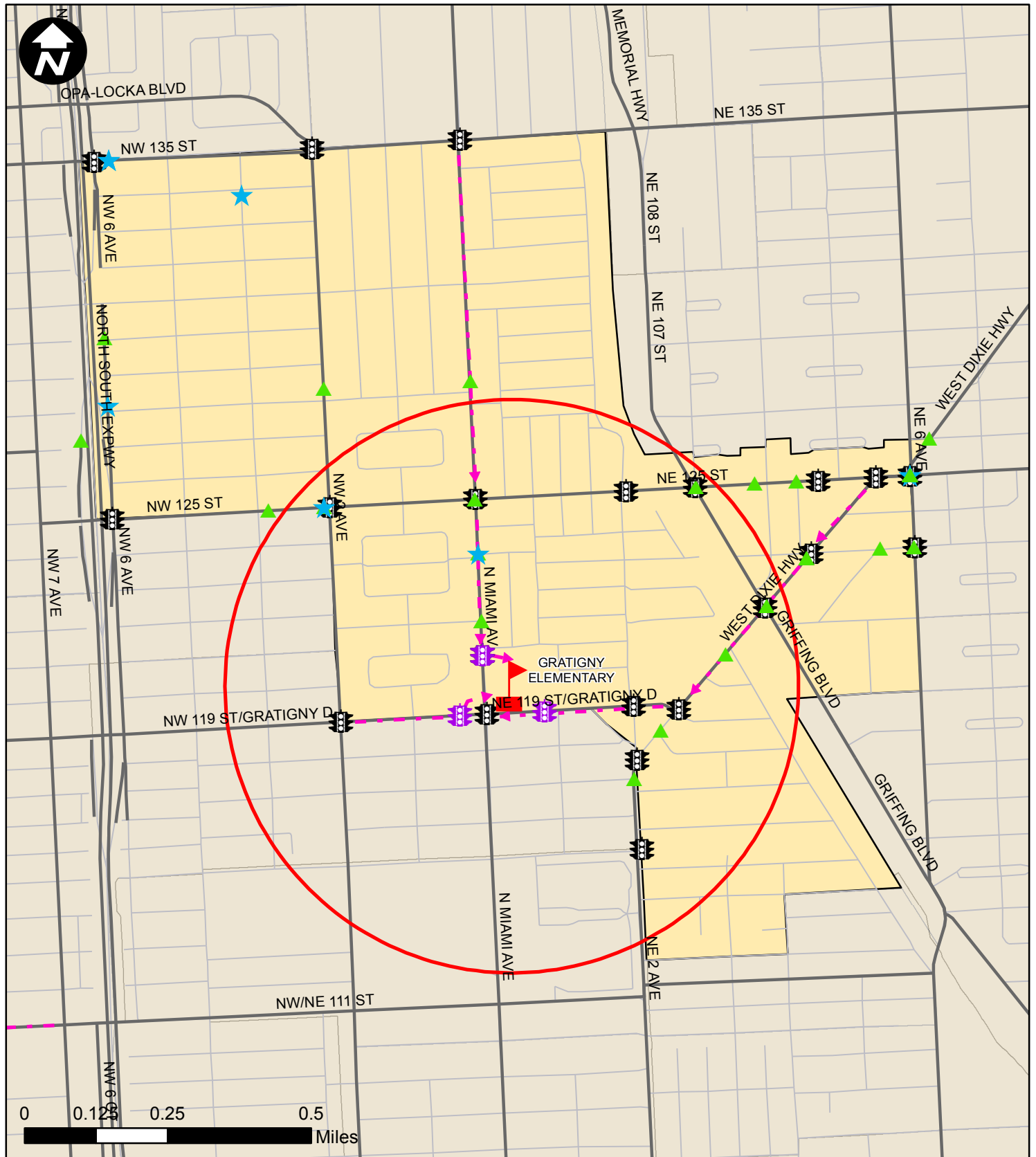




Gratigny Elementary



Gratigny Elementary



Legend



Study School



Bicycle Crash (2009-2013)



Pedestrian Crash (2009-2013)



Traffic Signal



School Flasher



MDC Safe Routes



Major Streets



Local Streets



School Attendance
Boundary



1/2 Mile Buffer

Gratigny El - 2241

W Dixie Hwy

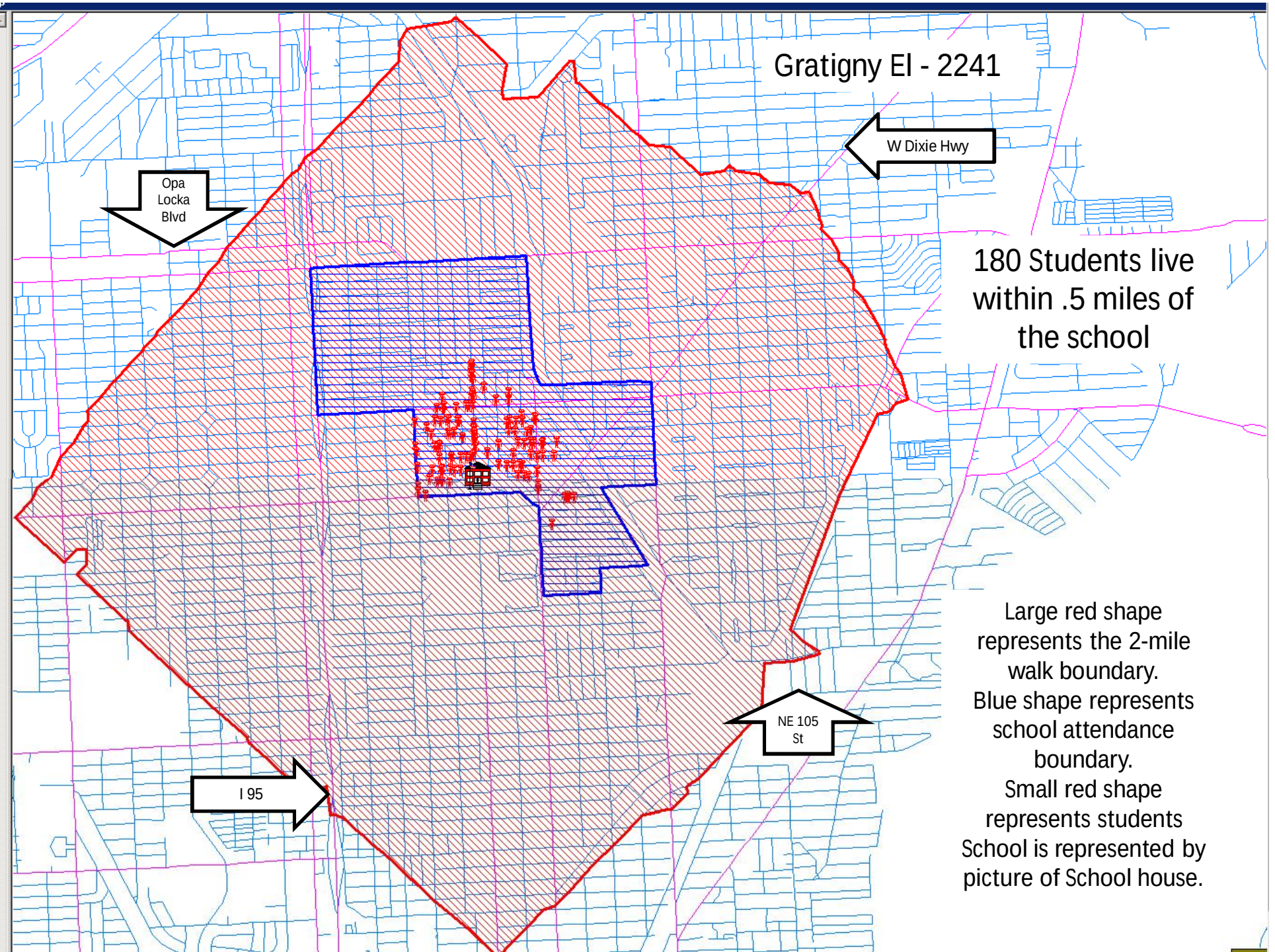
Opa
Locka
Blvd

180 Students live
within .5 miles of
the school

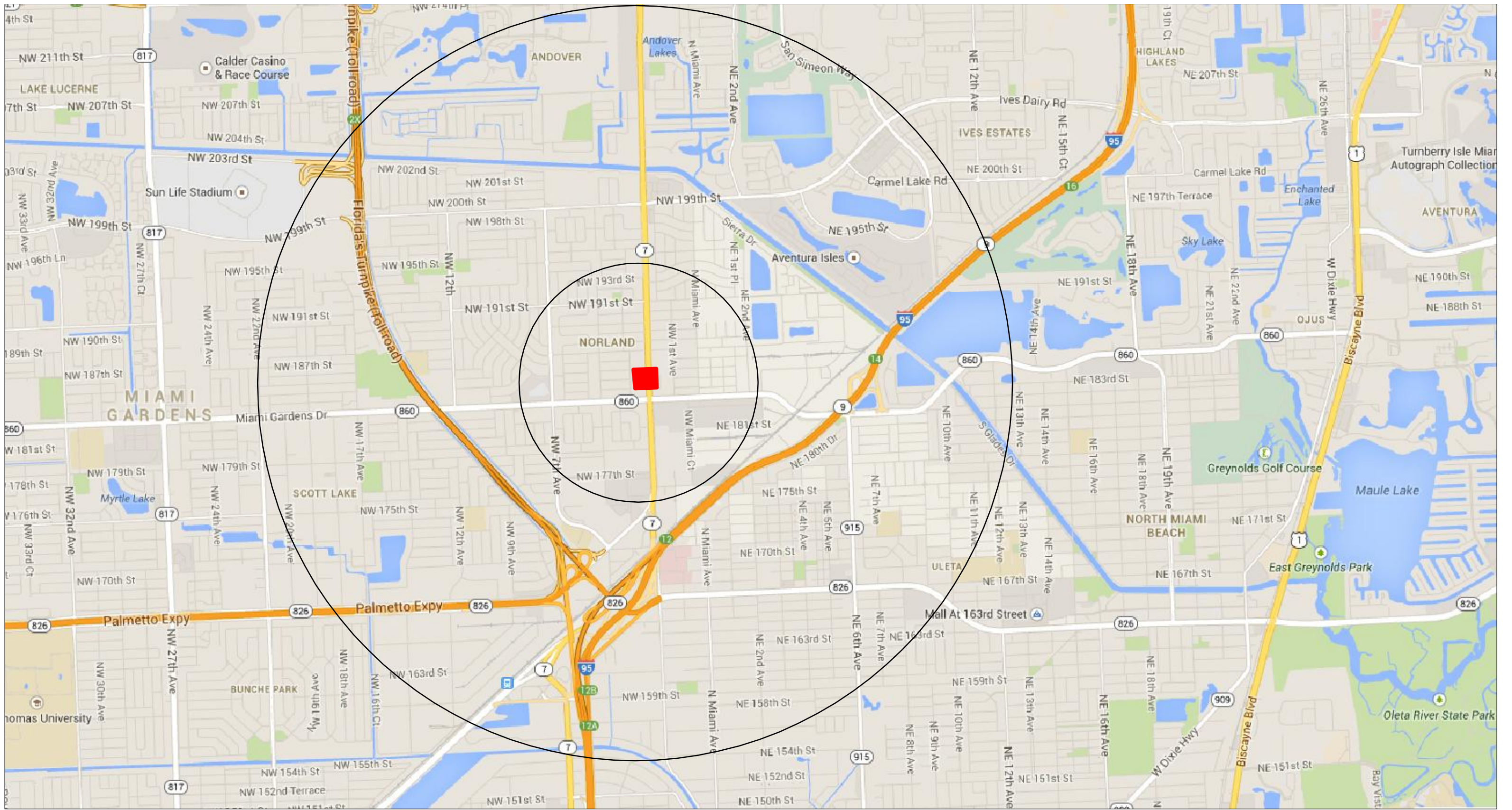
Large red shape
represents the 2-mile
walk boundary.
Blue shape represents
school attendance
boundary.
Small red shape
represents students
School is represented by
picture of School house.

NE 105
St

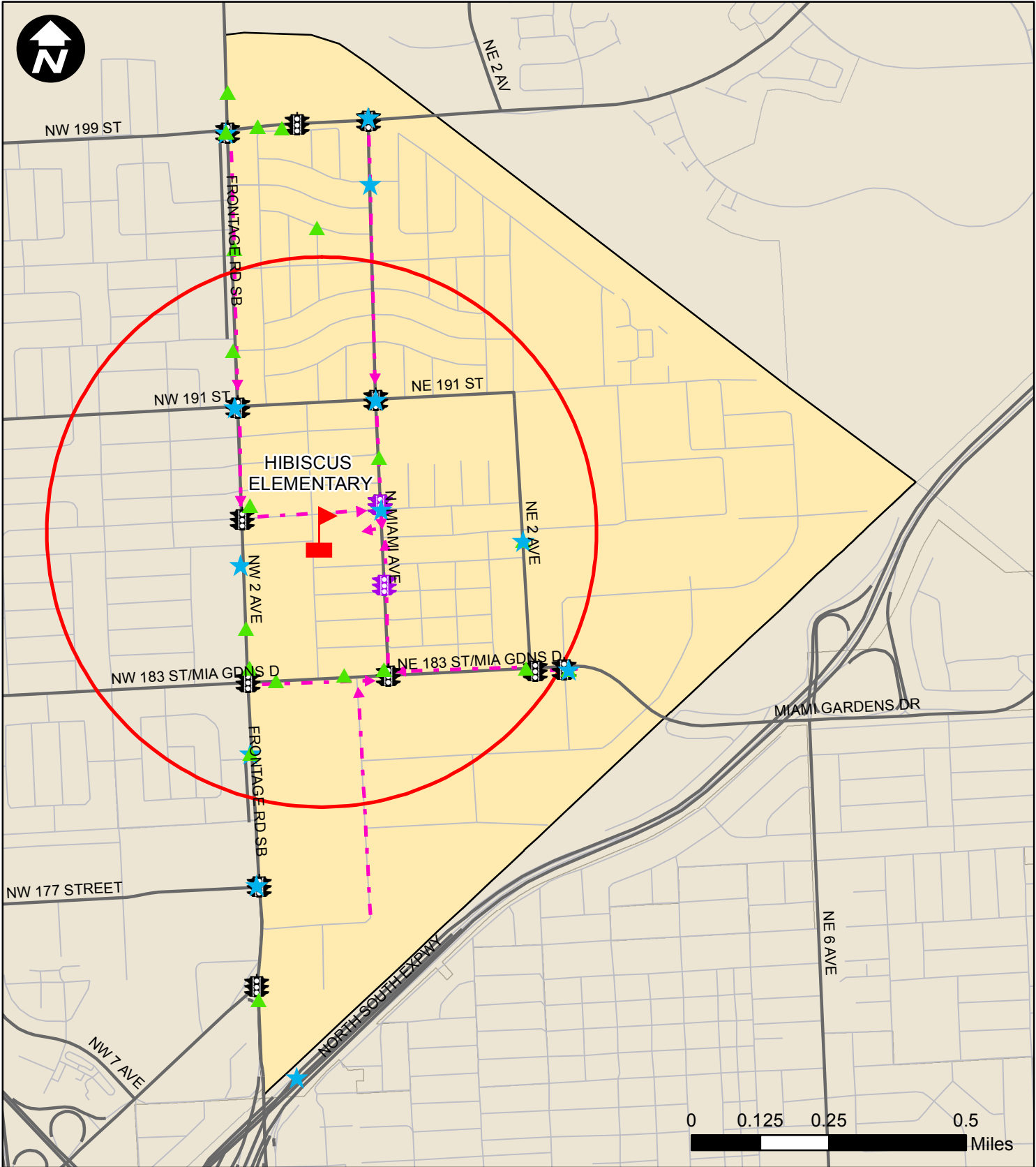
I 95



Hibiscus Elementary

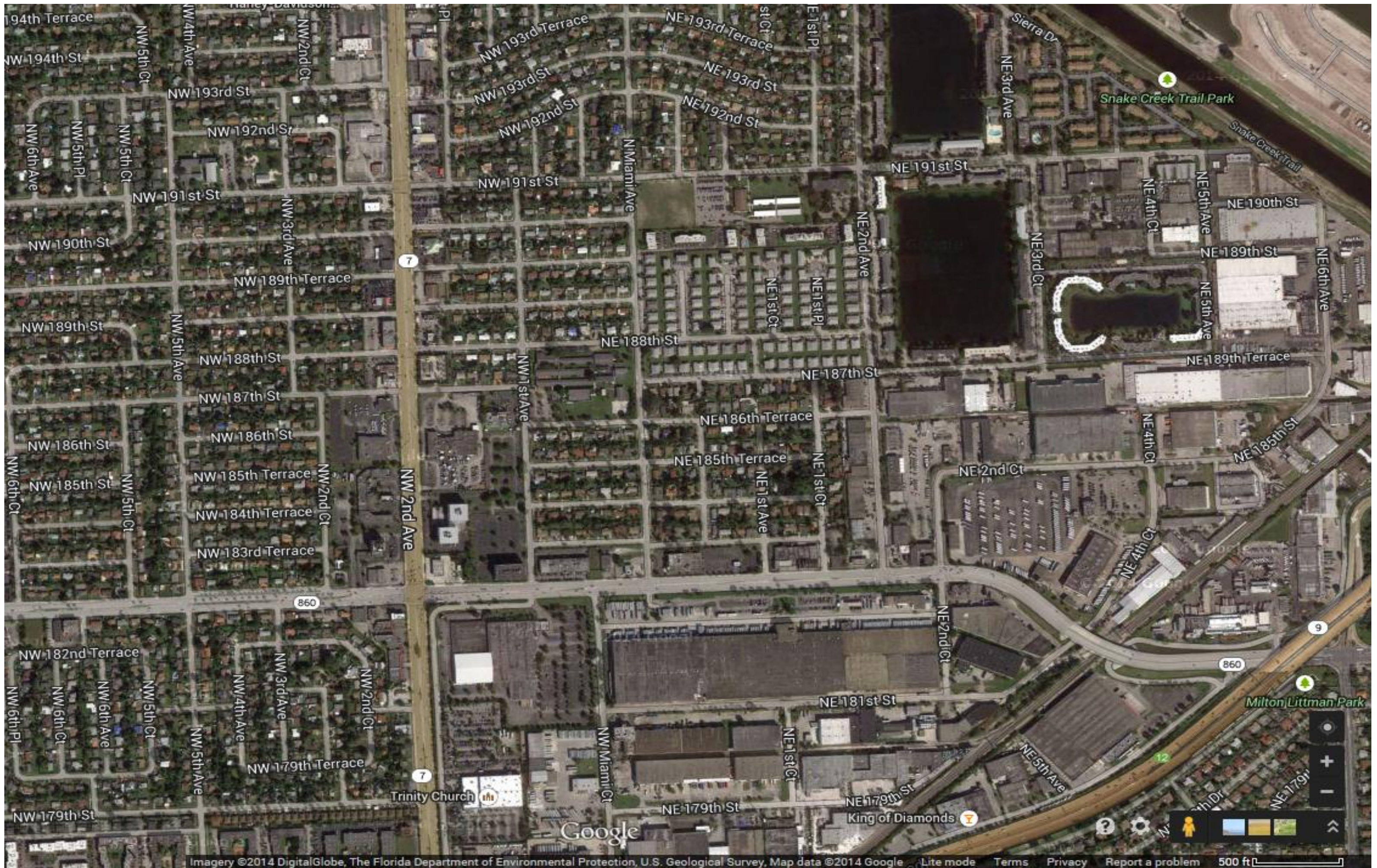


Hibiscus Elementary



Legend

- | | | | | |
|--|---|--|---|--|
|  Study School |  Bicycle Crash (2009-2013) |  Traffic Signal |  MDC Safe Routes |  School Attendance Boundary |
|  Pedestrian Crash (2009-2013) |  School Flasher |  Major Streets |  1/2 Mile Buffer | |
| | |  Local Streets | | |



Hibiscus El - 2401

NW 7 Ave

NW
203 St

238 Students live
within .5 miles of
the school

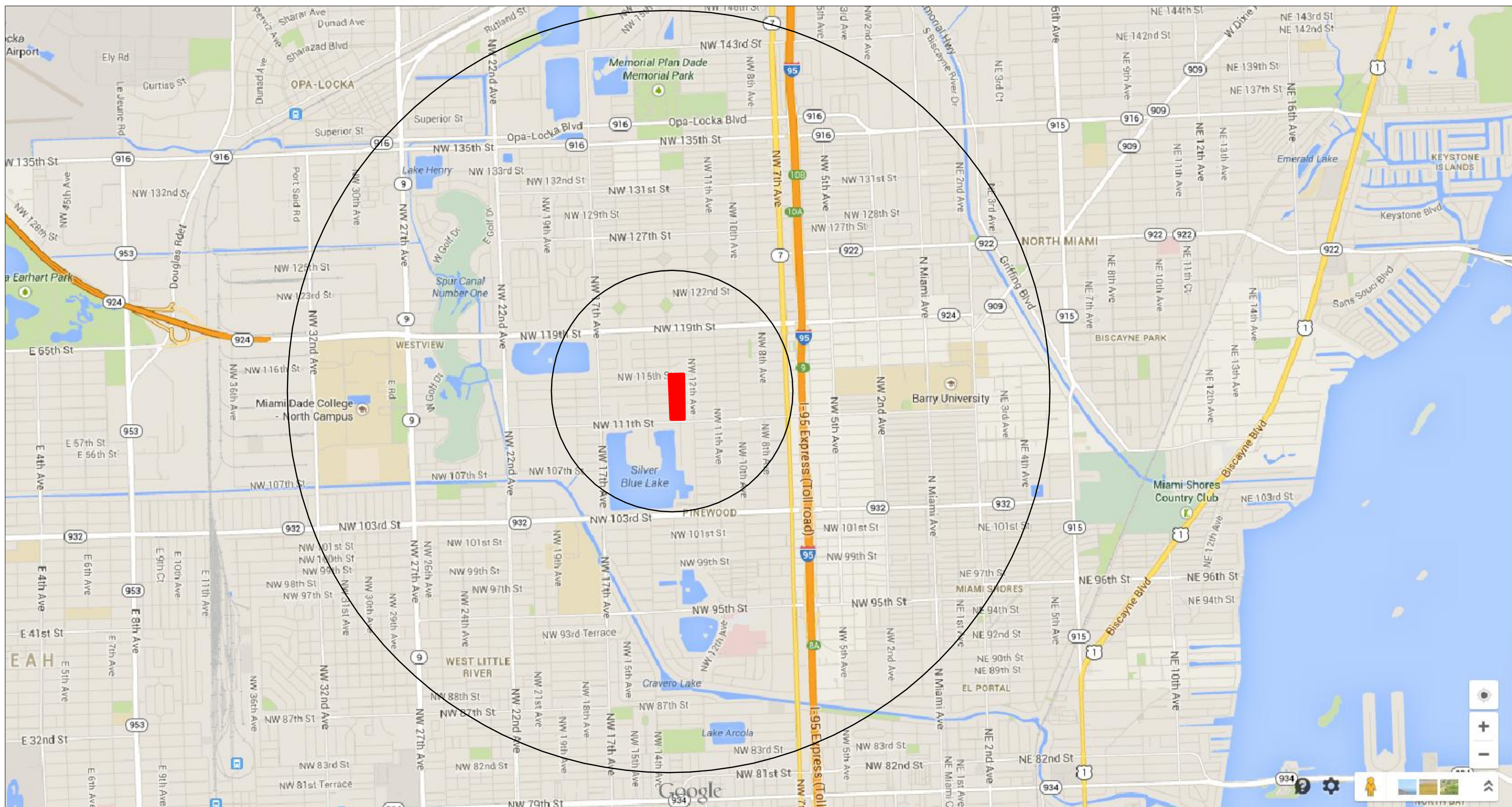
Large red shape
represents the 2-mile
walk boundary.
Blue shape represents
school attendance
boundary.

Small red shape
represents students
School is represented by
picture of School house.

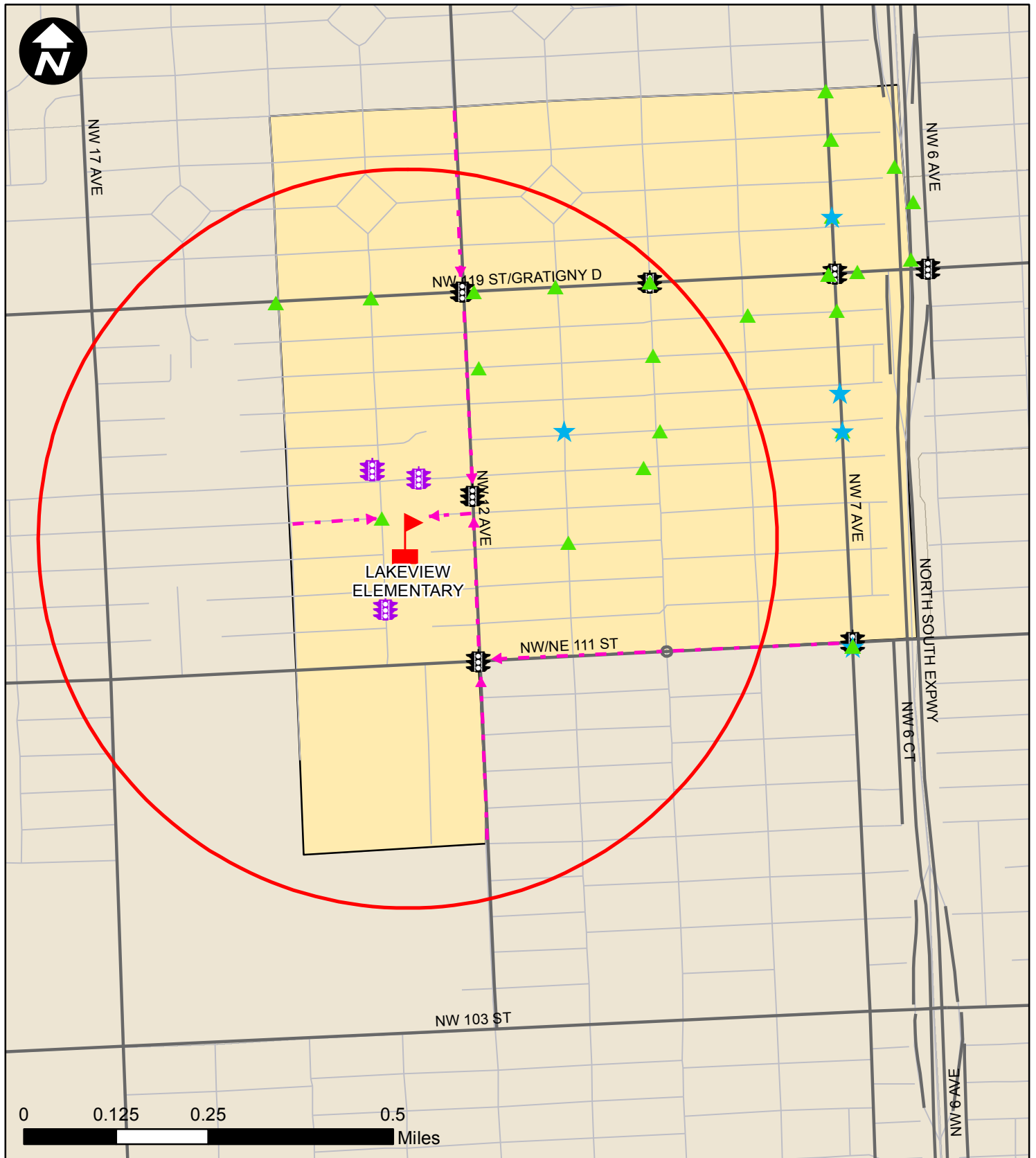
I 95

NE 167
St

Lakeview Elementary

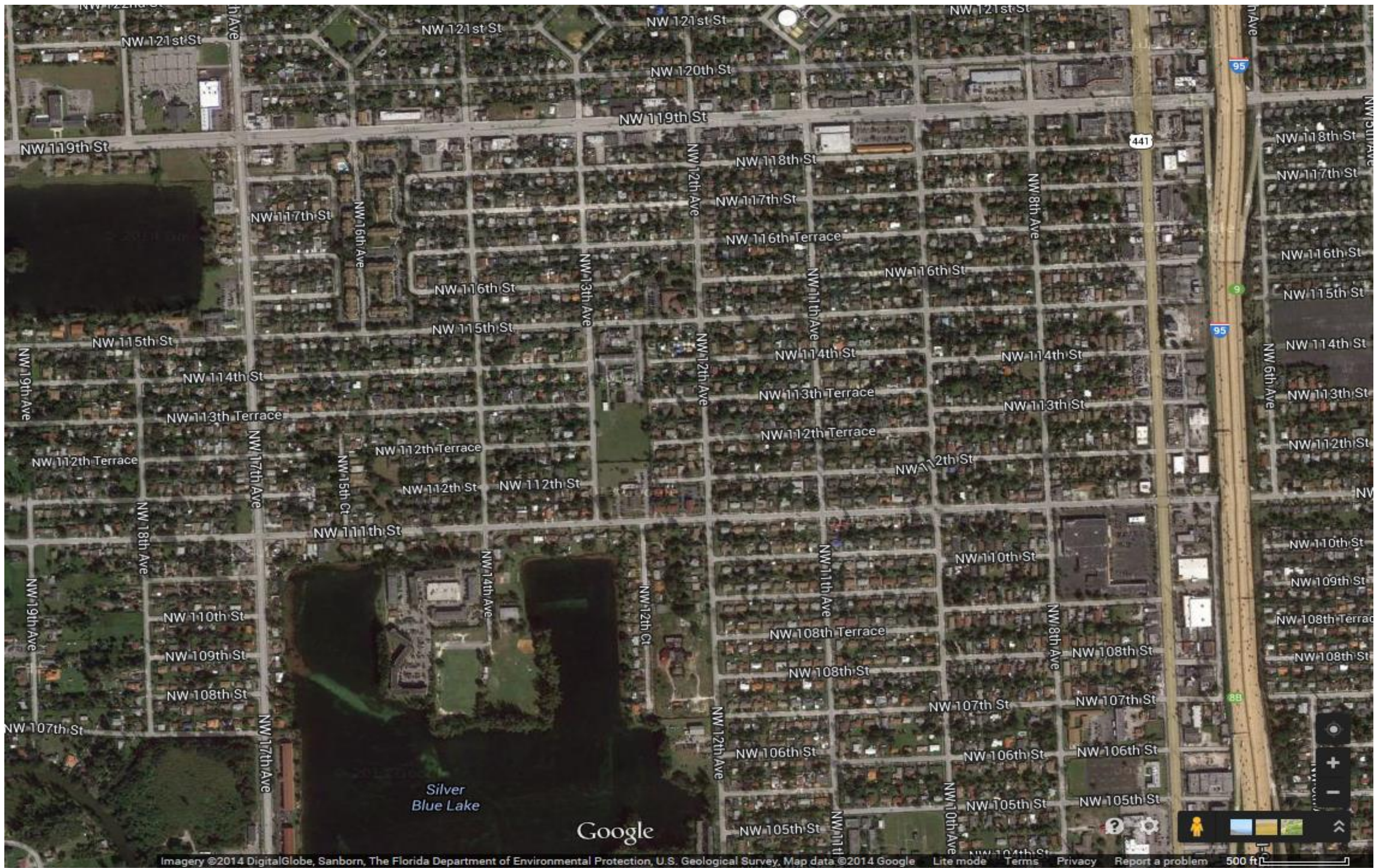


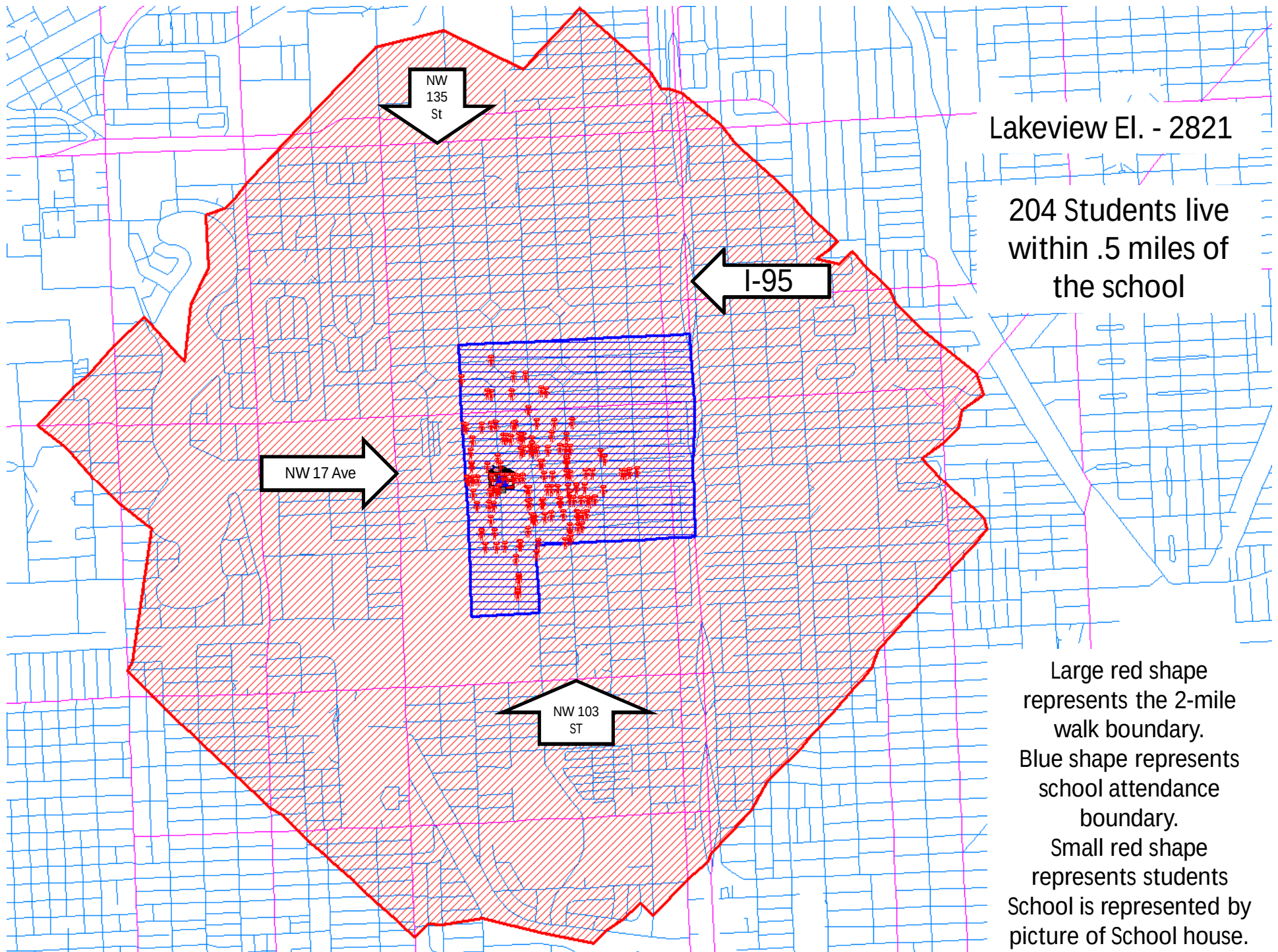
Lakeview Elementary



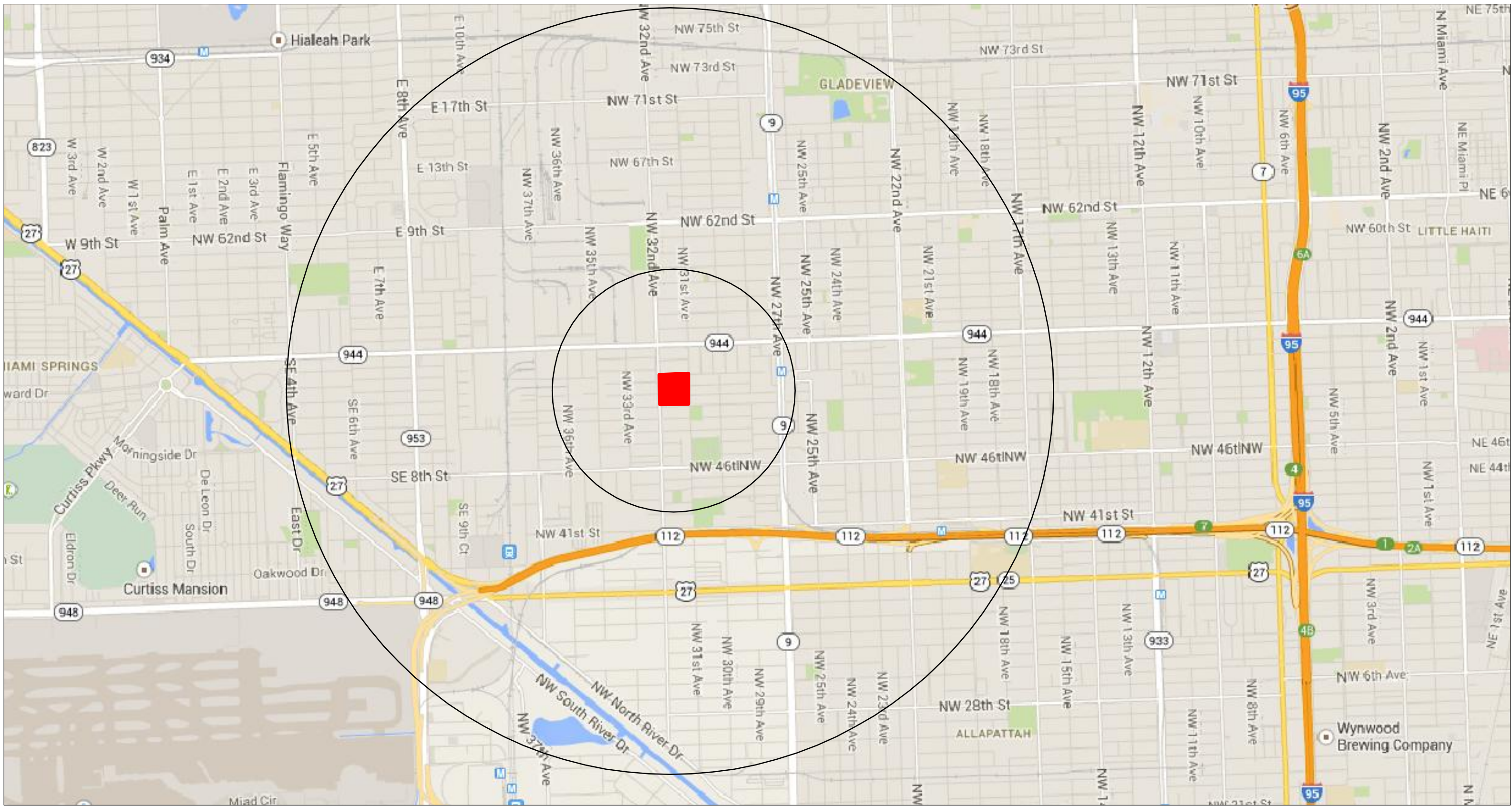
Legend

- | | | | | |
|--|---|--|---|--|
|  Study School |  Bicycle Crash (2009-2013) |  Traffic Signal |  MDC Safe Routes |  School Attendance Boundary |
|  Pedestrian Crash (2009-2013) |  School Flasher |  Major Streets |  1/2 Mile Buffer | |
| | |  Local Streets | | |

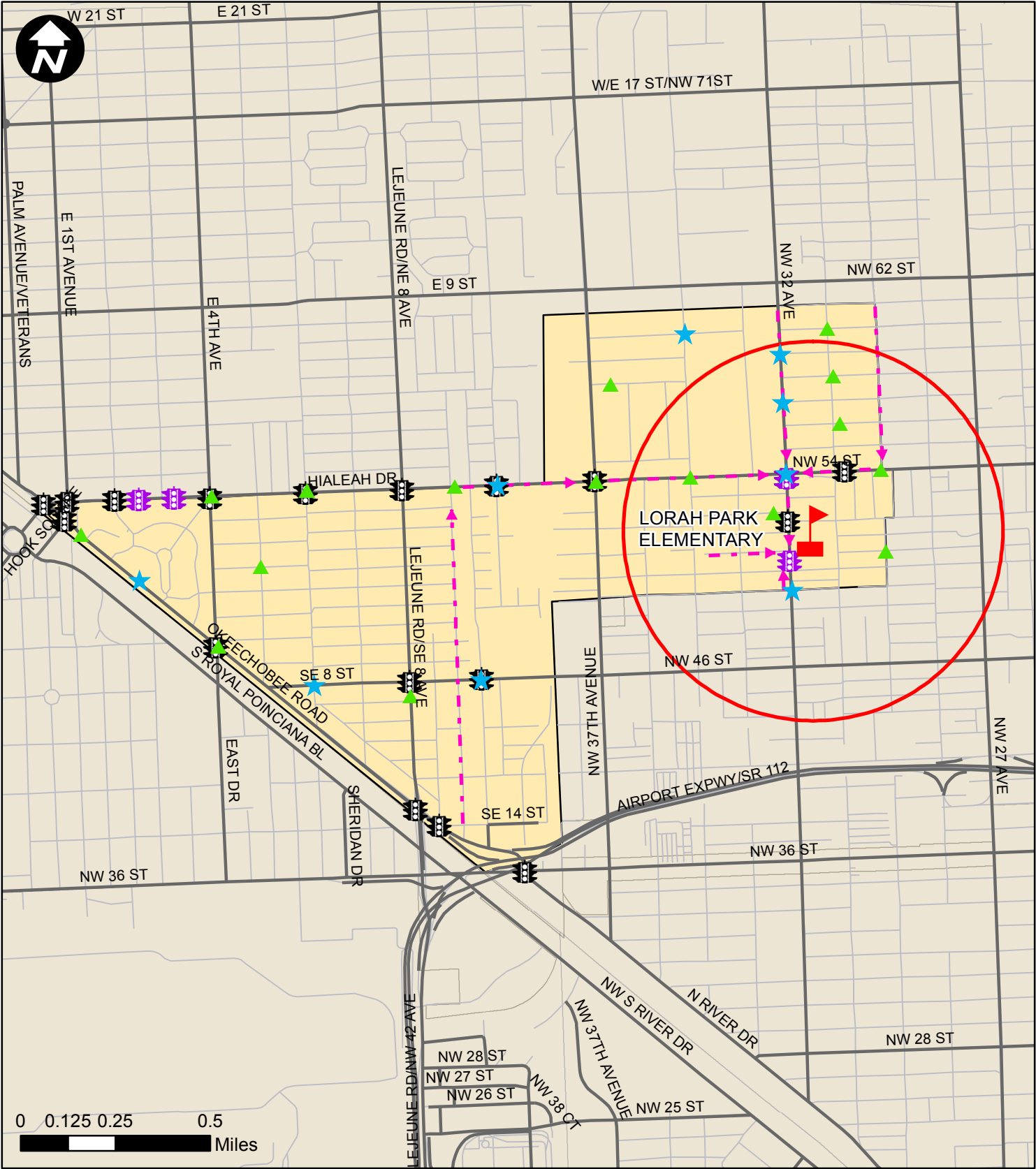




Lorah Park Elementary

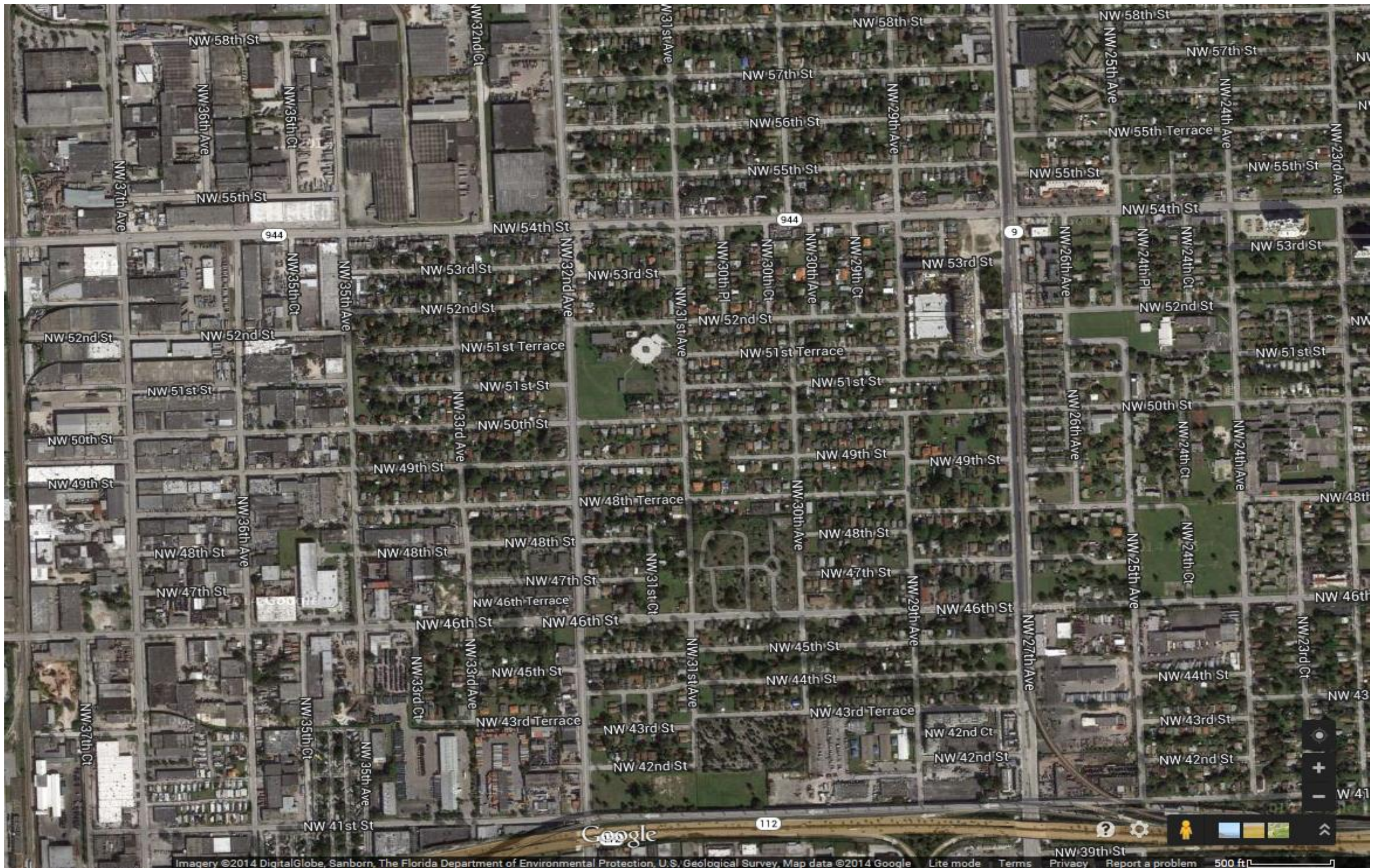


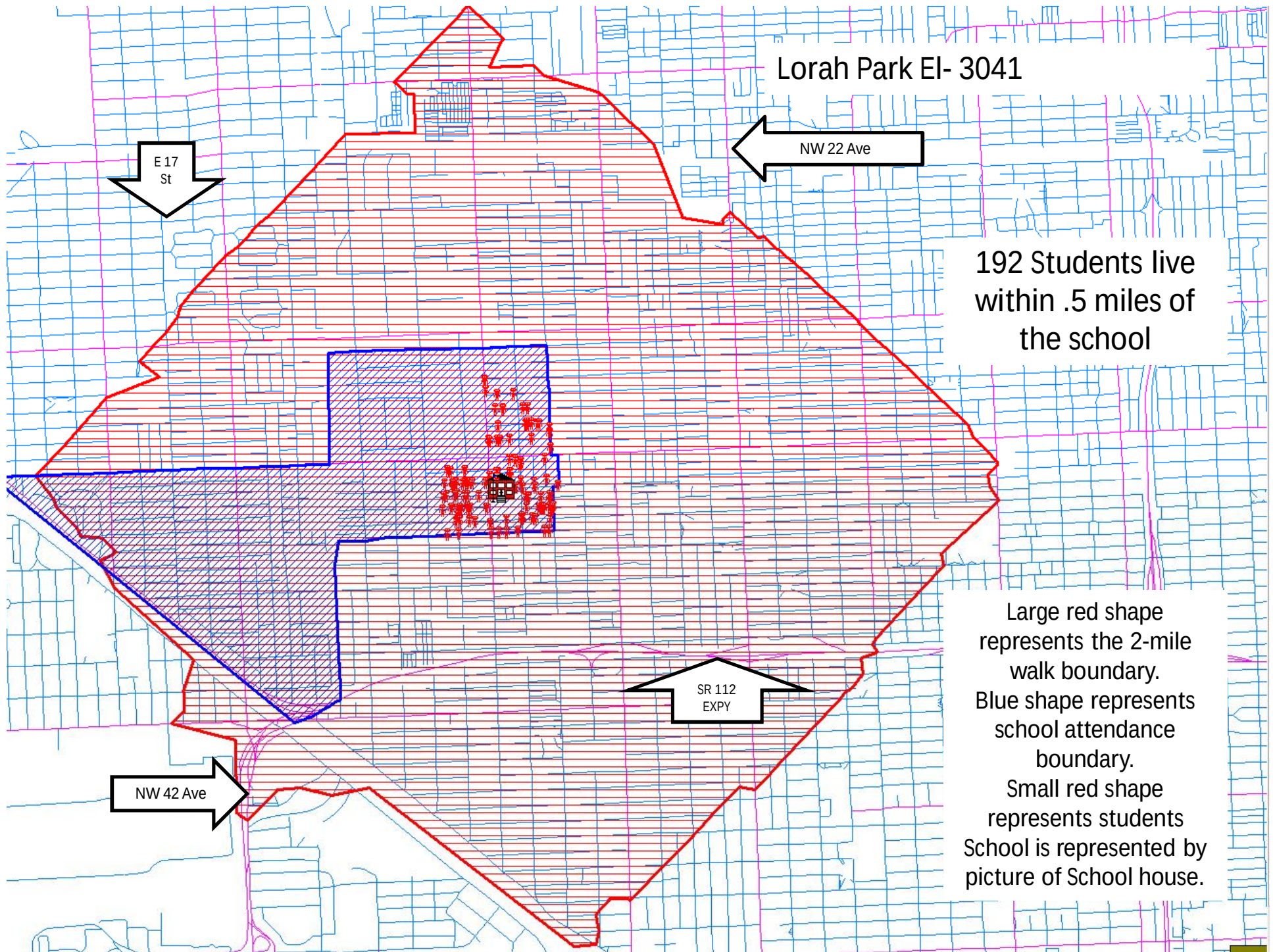
Lorah Park Elementary



Legend

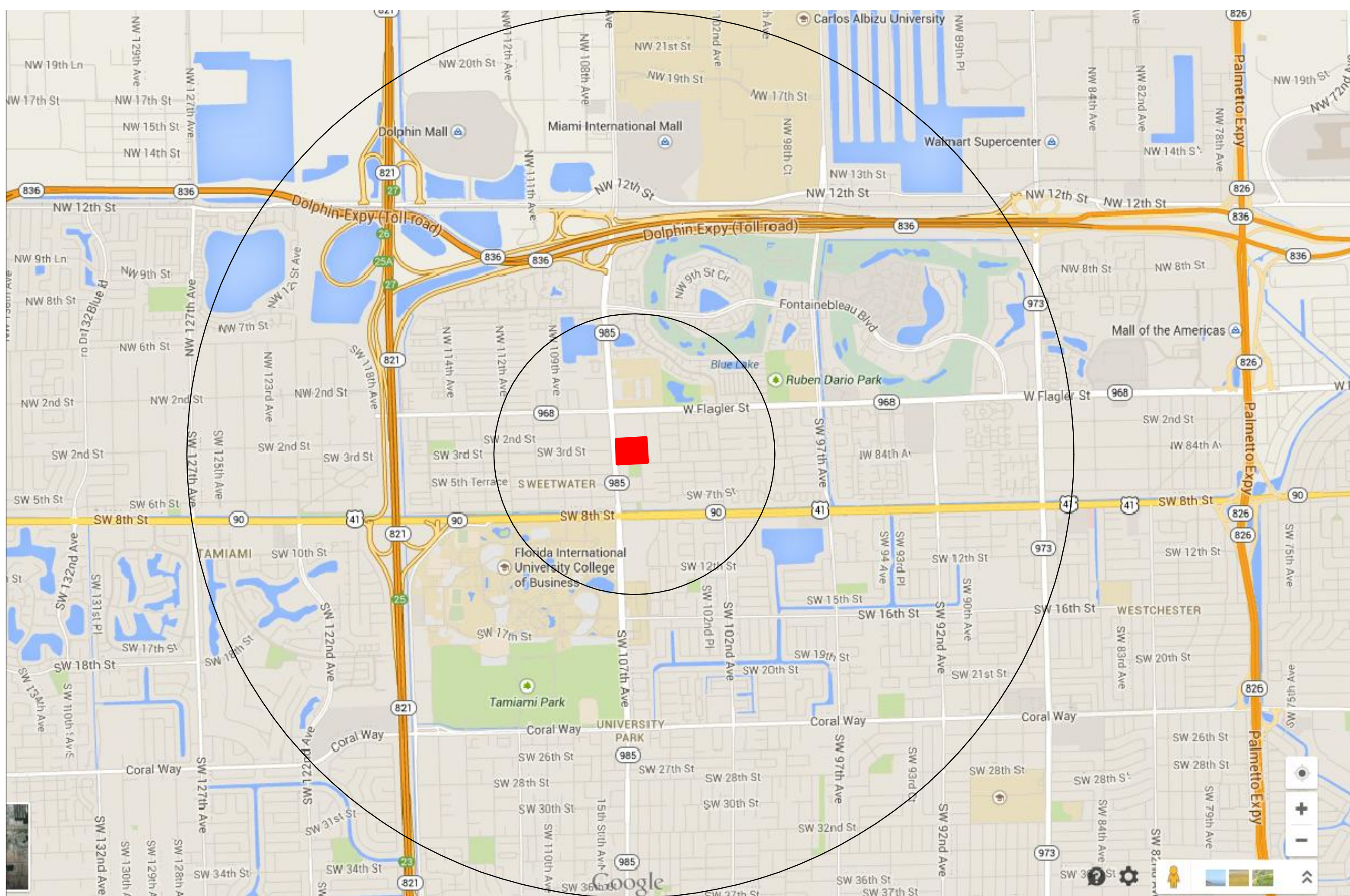
- | | | | | |
|--|---|--|---|--|
|  Study School |  Bicycle Crash (2009-2013) |  Traffic Signal |  MDC Safe Routes |  School Attendance Boundary |
|  Pedestrian Crash (2009-2013) |  School Flasher |  Major Streets |  1/2 Mile Buffer | |
| | |  Local Streets | | |

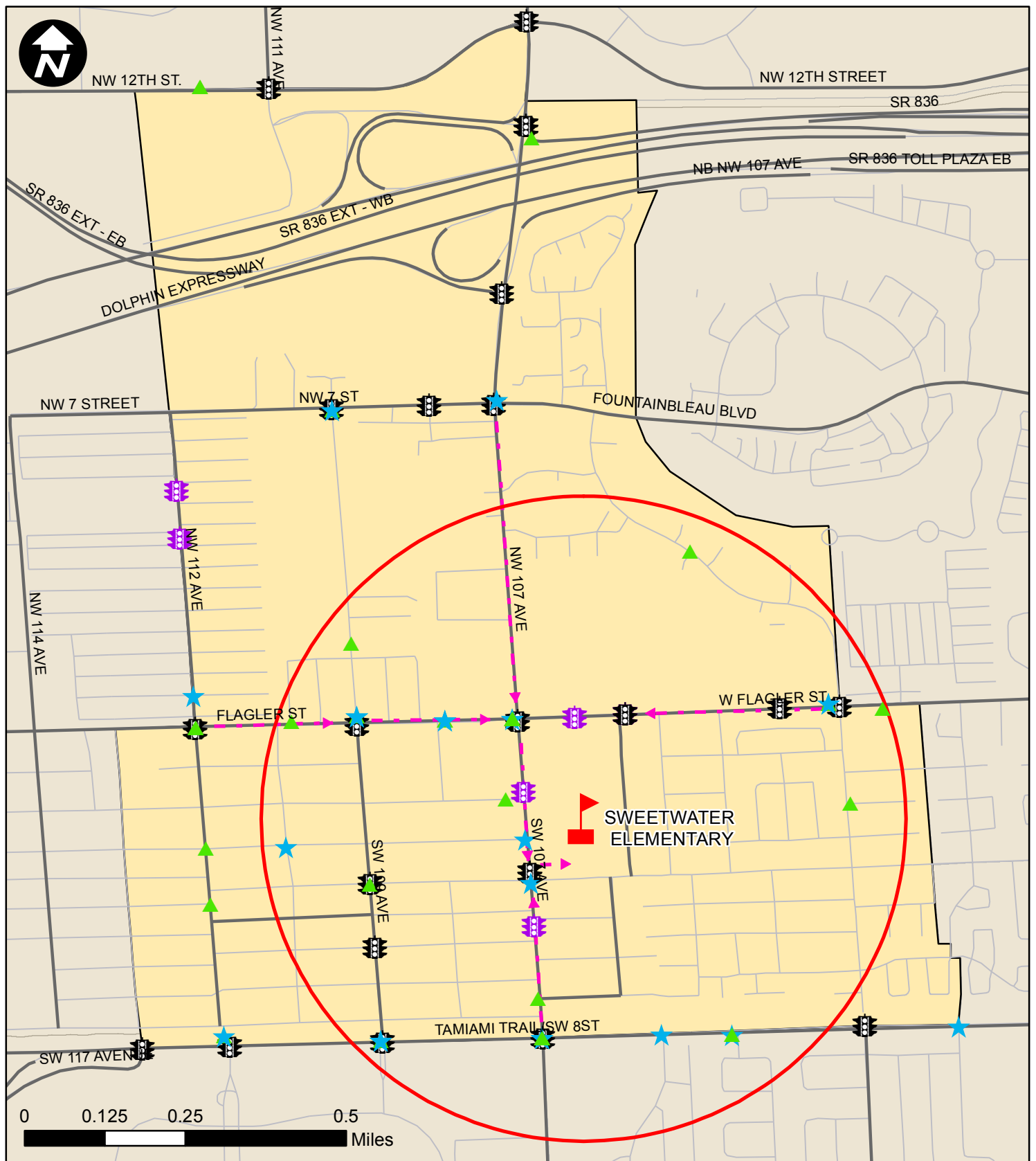




Large red shape represents the 2-mile walk boundary.
Blue shape represents school attendance boundary.
Small red shape represents students
School is represented by picture of School house.

Sweetwater Elementary



[illegible]

Legend



Study School



Bicycle Crash (2009-2013)



Pedestrian Crash (2009-2013)



Traffic Signal



School Flasher



MDC Safe Routes



Major Streets



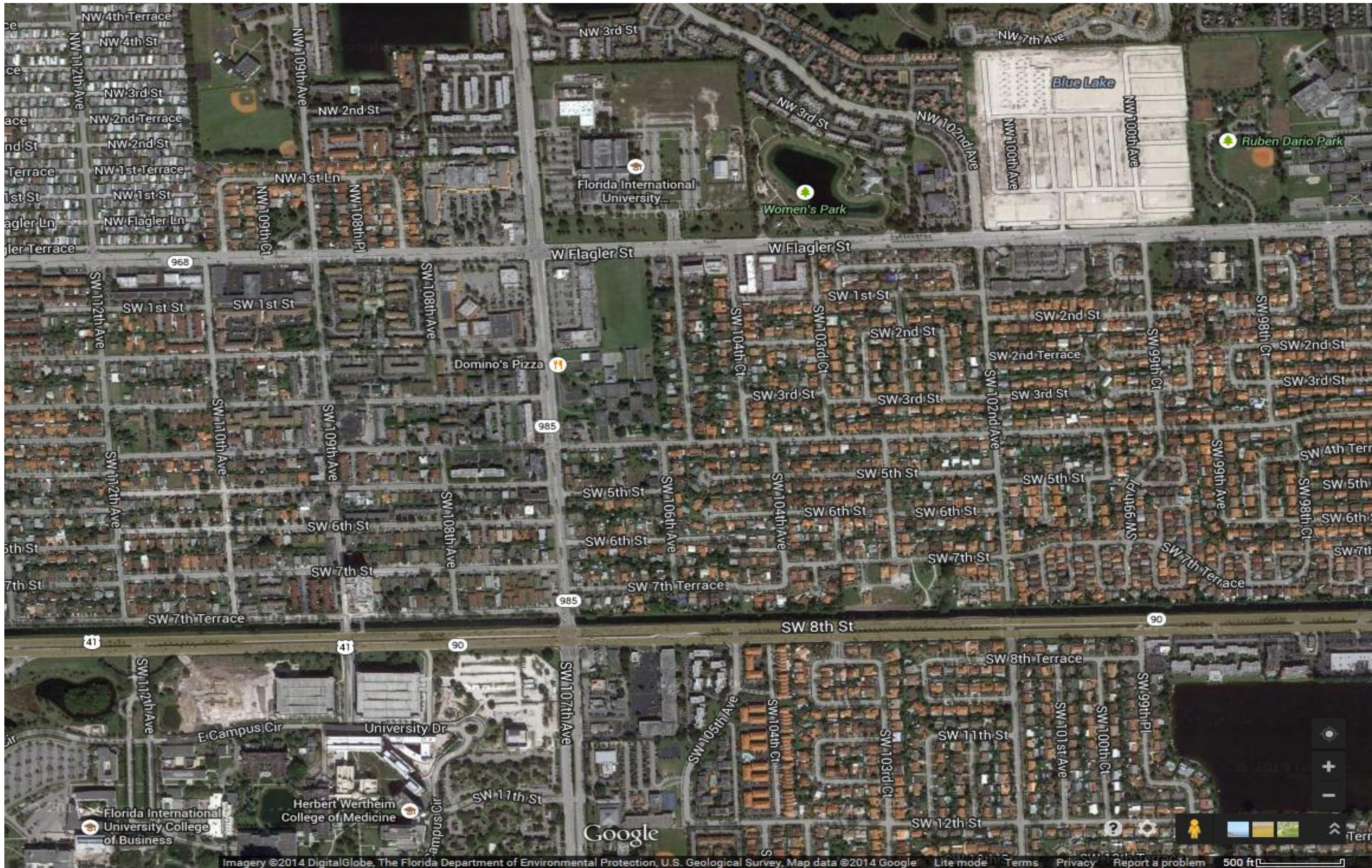
Local Streets

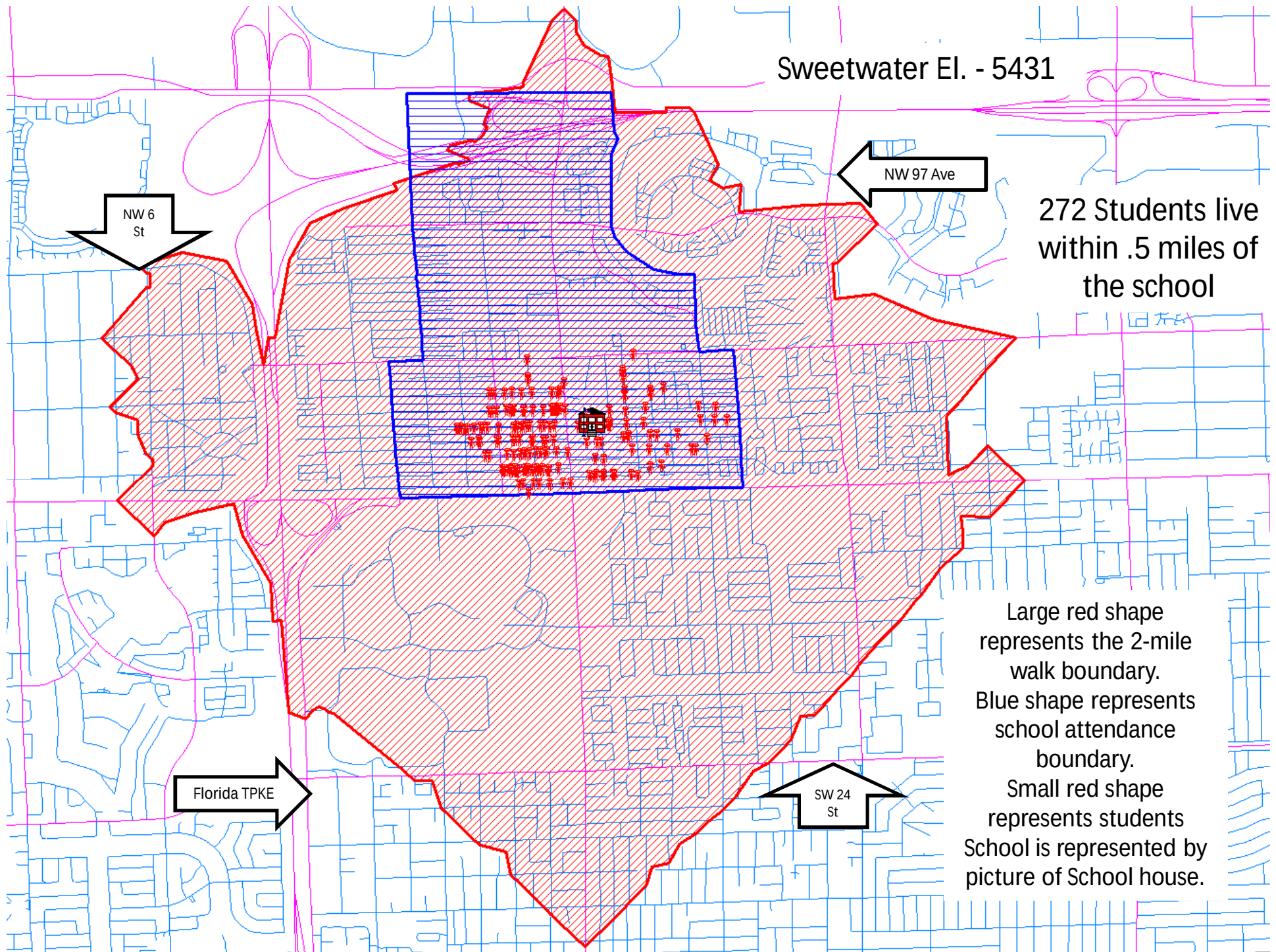


School Attendance Boundary



1/2 Mile Buffer





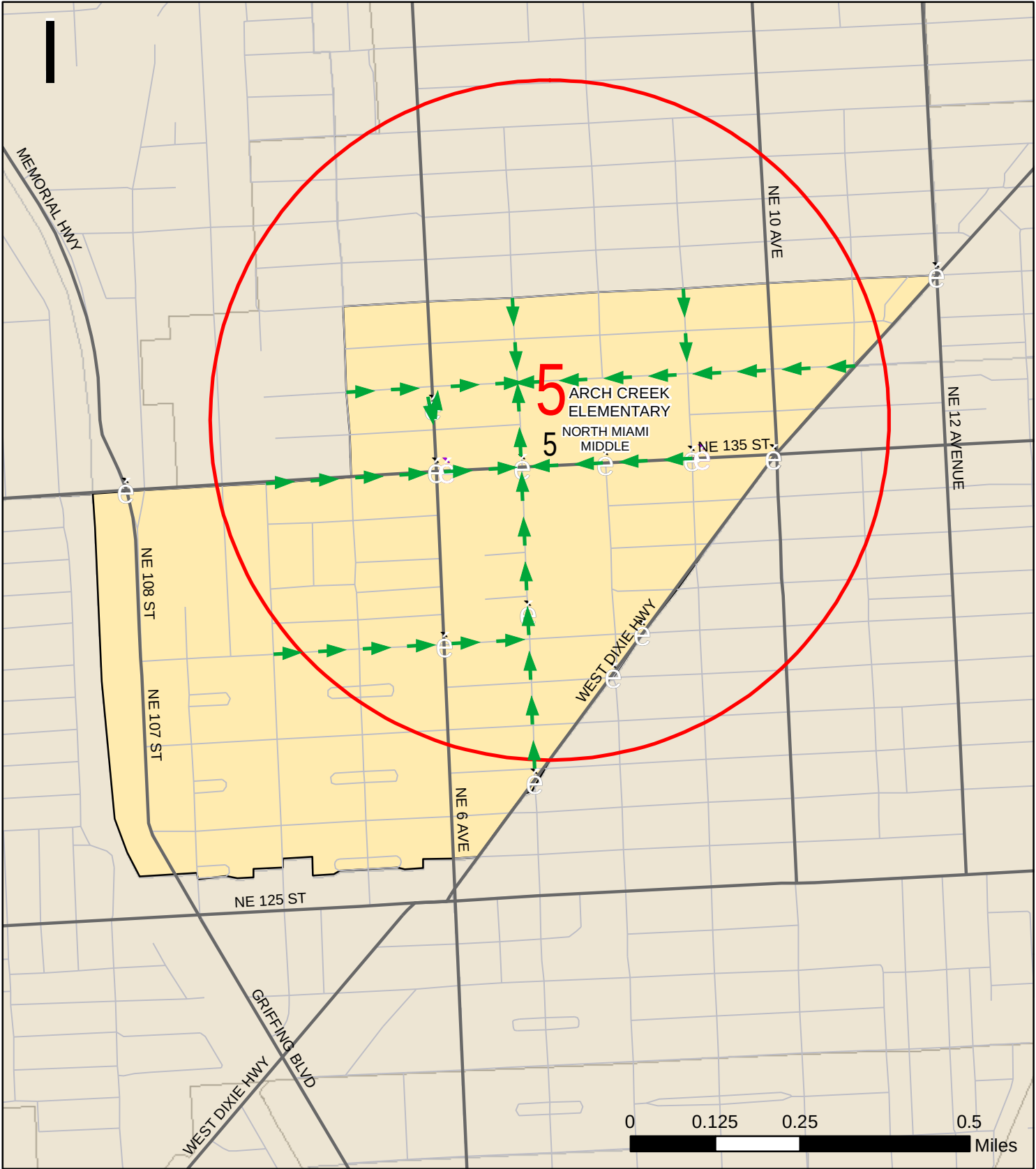
APPENDIX D

SRTS MAPS

Arch Creek Elementary
(Including North Miami Middle School)



Arch Creek Elementary (including North Miami Middle)



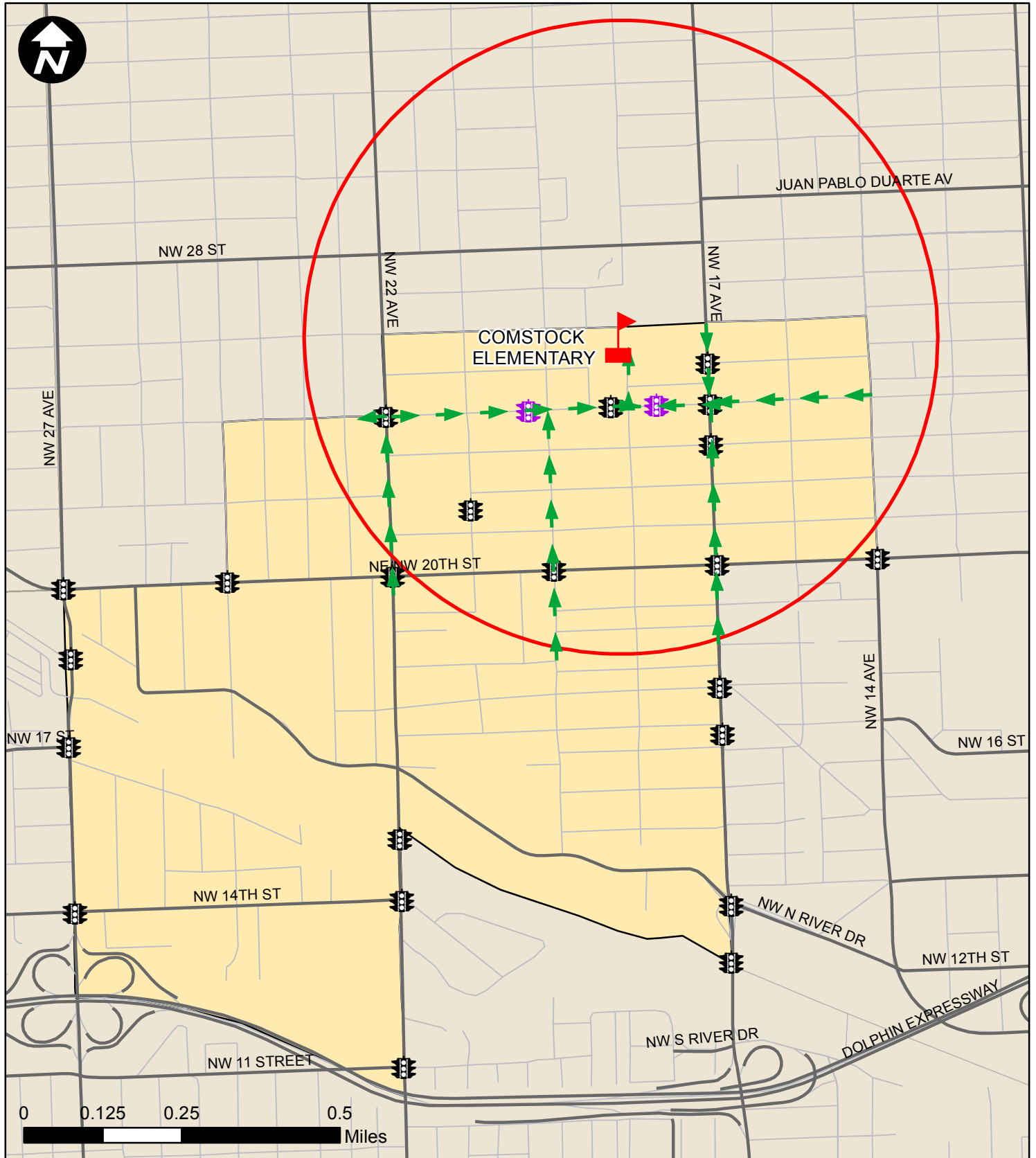
Legend

- | | | | |
|--|---|--|--|
|  Proposed Safe Routes |  Study School |  Traffic Signal |  School Attendance Boundary |
|  Major Streets |  Adjacent School |  School Flasher |  1/2 Mile Radius |
|  Local Streets | | | |

Comstock Elementary



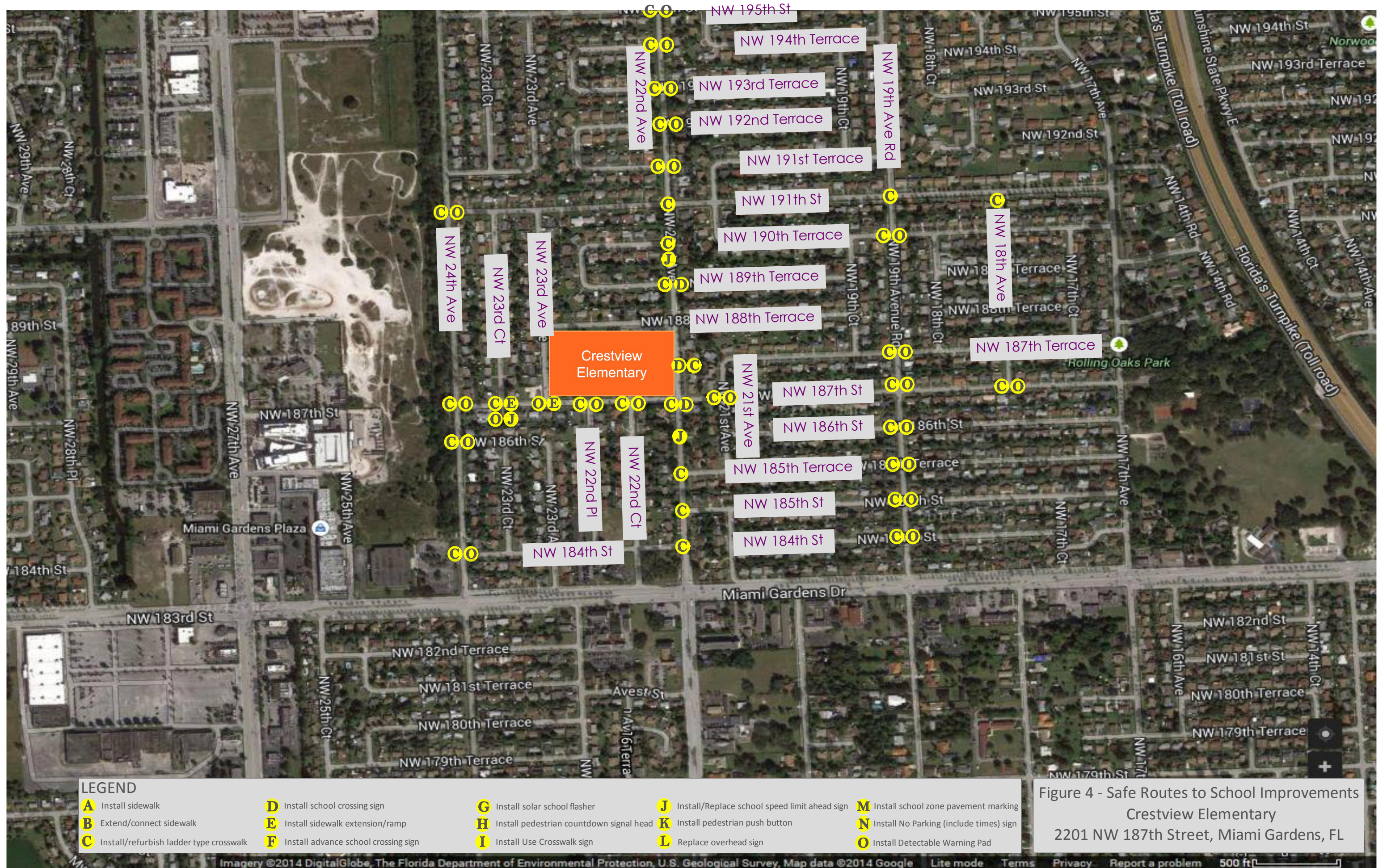
Comstock Elementary



Legend

- | | | | |
|--|--|--|--|
|  Proposed Safe Routes |  Study School |  Traffic Signal |  School Attendance Boundary |
|  Major Streets | |  School Flasher |  1/2 Mile Radius |
|  Local Streets | | | |

Crestview Elementary

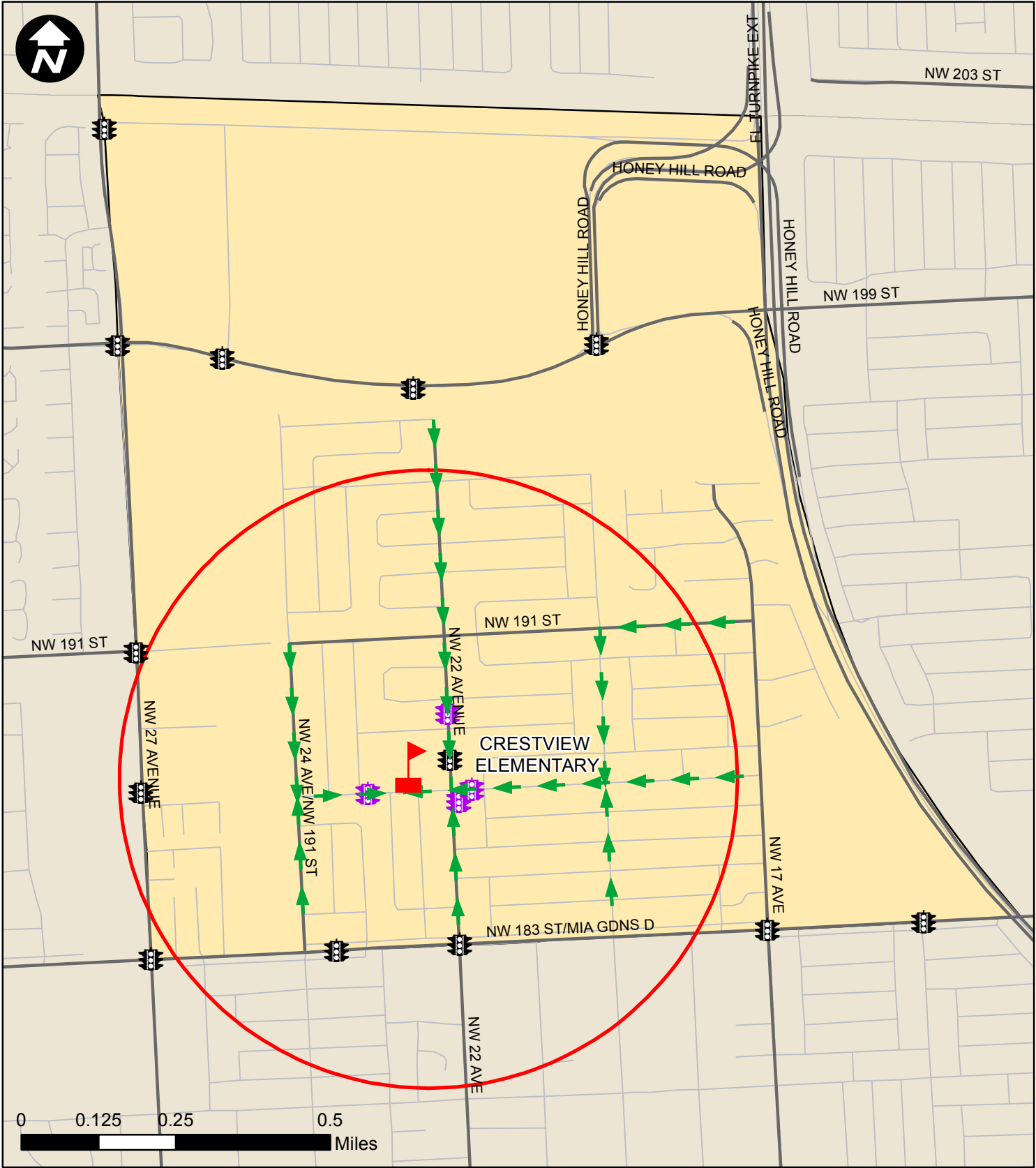


LEGEND

- | | | | | |
|--|---|---|--|--|
| A Install sidewalk | D Install school crossing sign | G Install solar school flasher | J Install/Replace school speed limit ahead sign | M Install school zone pavement marking |
| B Extend/connect sidewalk | E Install sidewalk extension/ramp | H Install pedestrian countdown signal head | K Install pedestrian push button | N Install No Parking (include times) sign |
| C Install/refurbish ladder type crosswalk | F Install advance school crossing sign | I Install Use Crosswalk sign | L Replace overhead sign | O Install Detectable Warning Pad |

Figure 4 - Safe Routes to School Improvements
Crestview Elementary
2201 NW 187th Street, Miami Gardens, FL

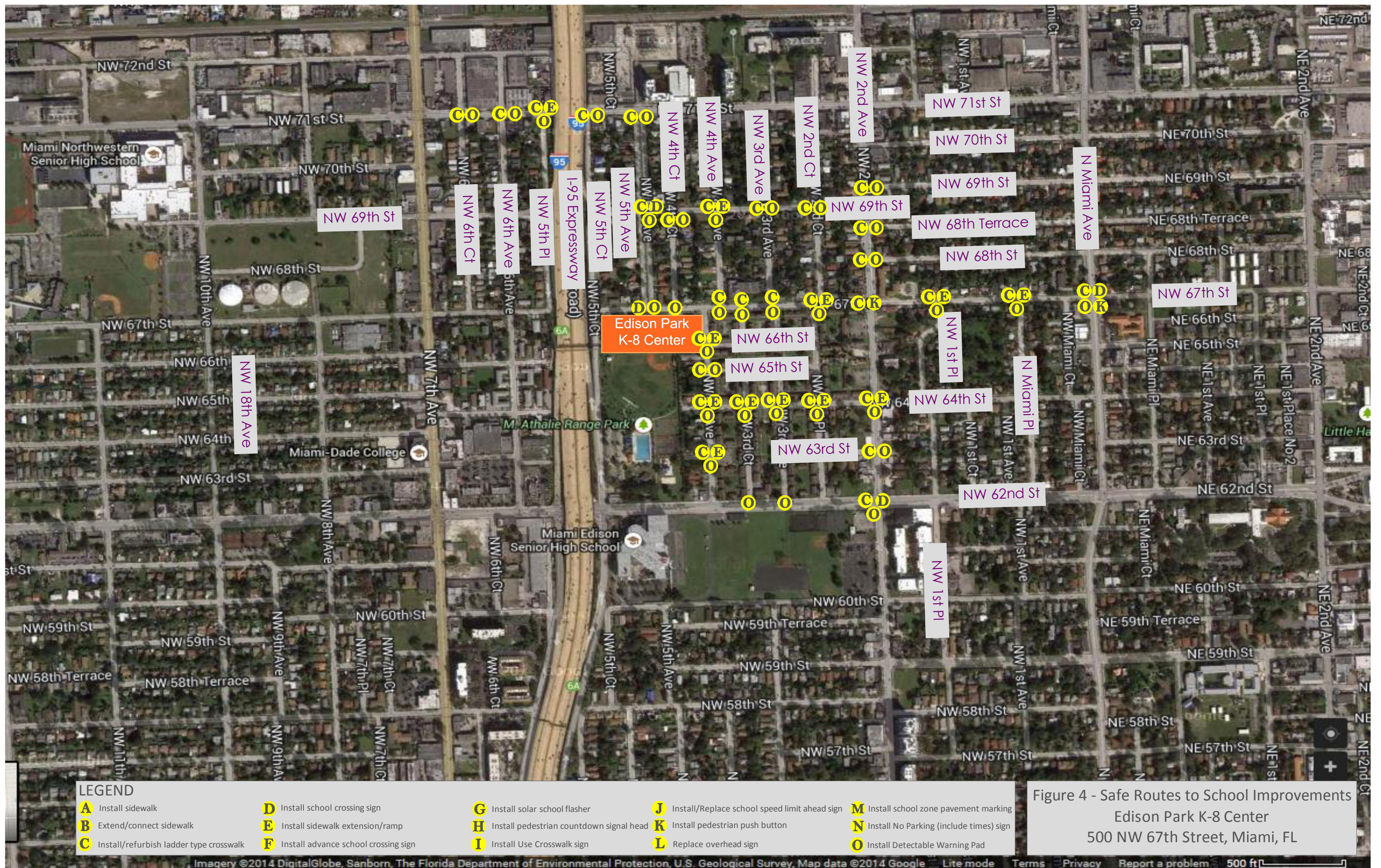
Crestview Elementary



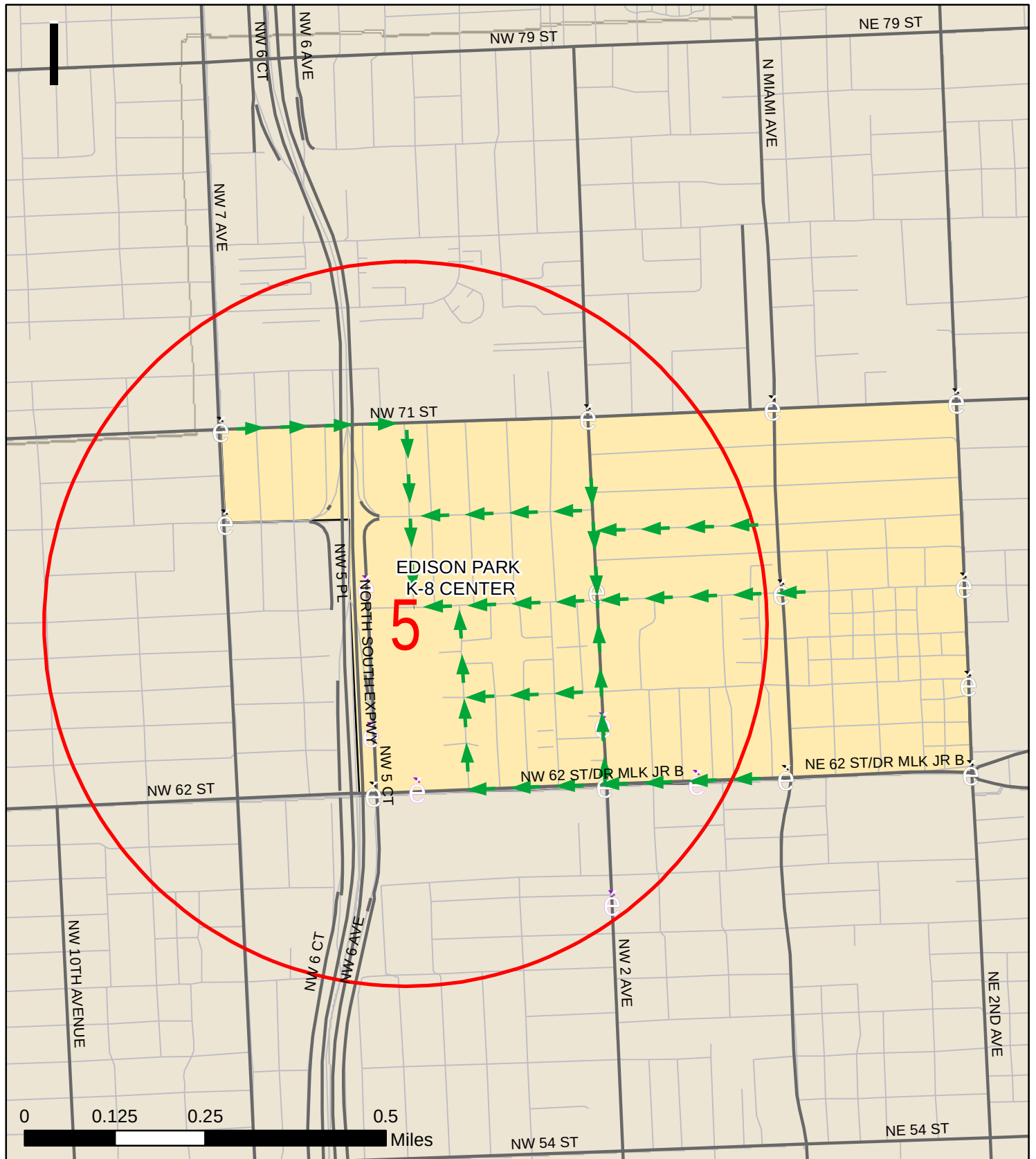
Legend

- | | | | |
|--|--|--|--|
|  Proposed Safe Routes |  Study School |  Traffic Signal |  School Attendance Boundary |
|  Major Streets | |  School Flasher |  1/2 Mile Radius |
|  Local Streets | | | |

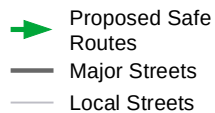
Edison Park K-8 Center



Edison Park K-8 Center



Legend



5 Study School



Traffic Signal

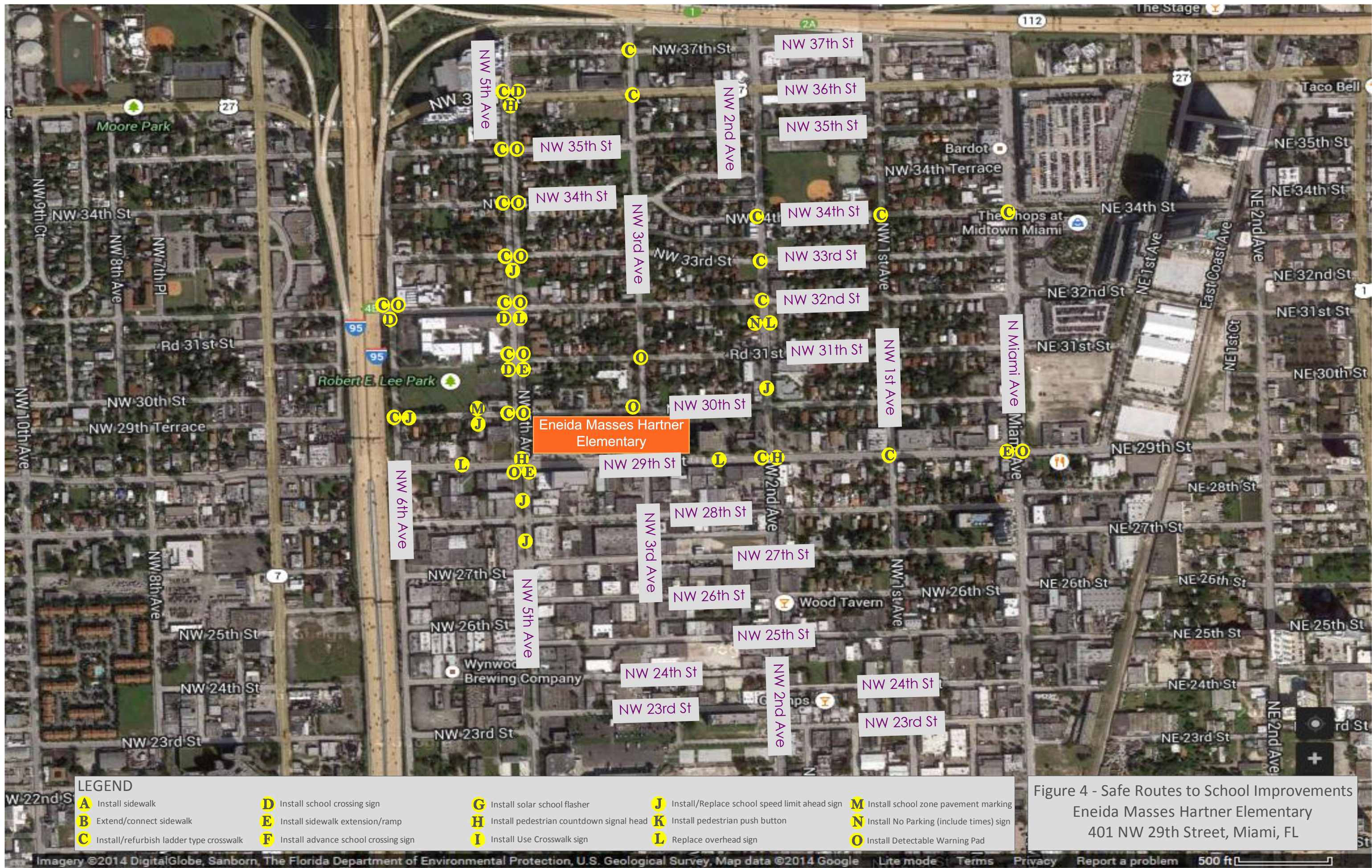


School Flasher

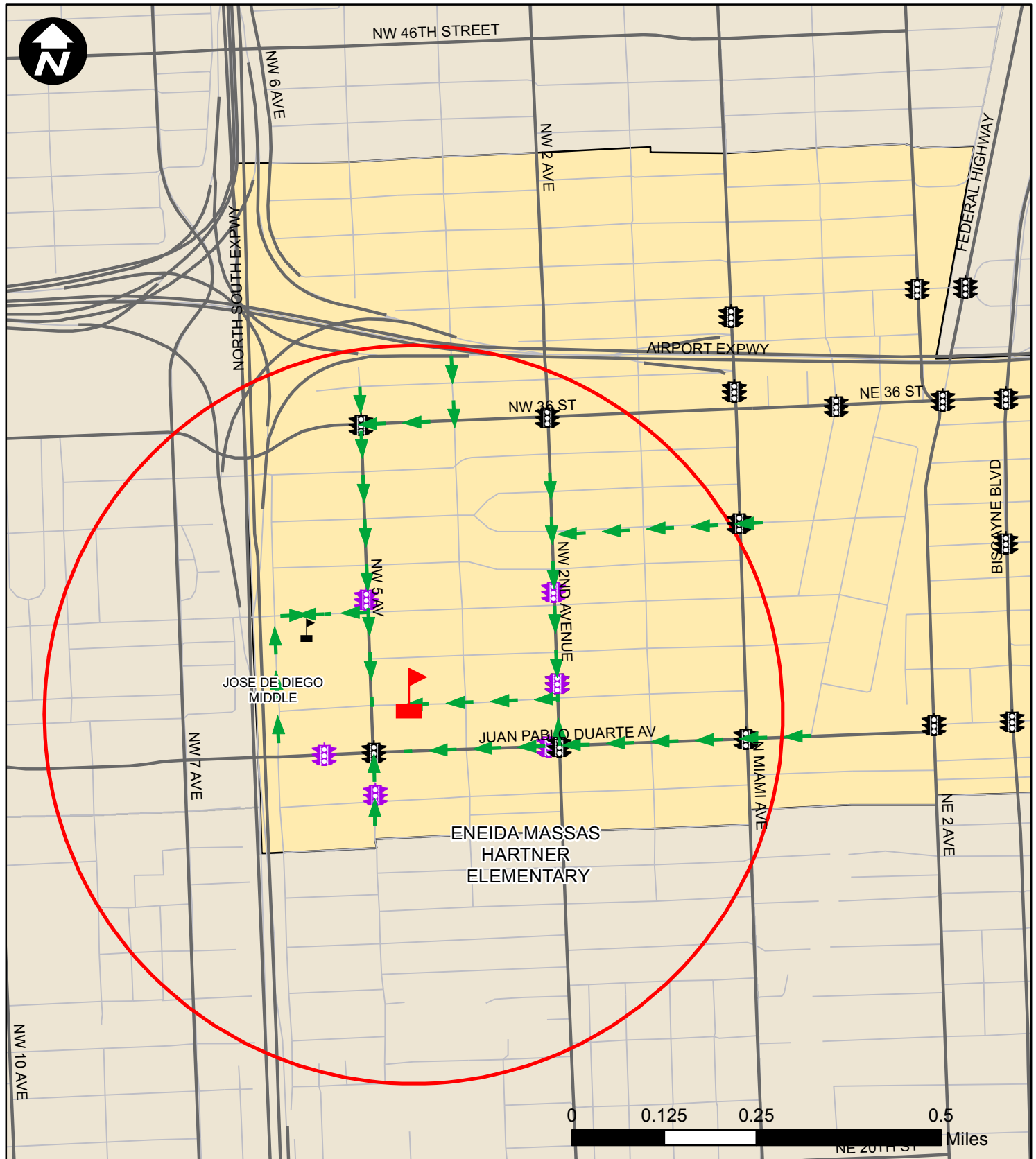
School Attendance
Boundary

1/2 Mile Radius

Eneida Massas Hartner Elementary
(Including Jose De Diego Middle School)



Eneida Massas Hartner Elementary (Jose De Diego Middle)

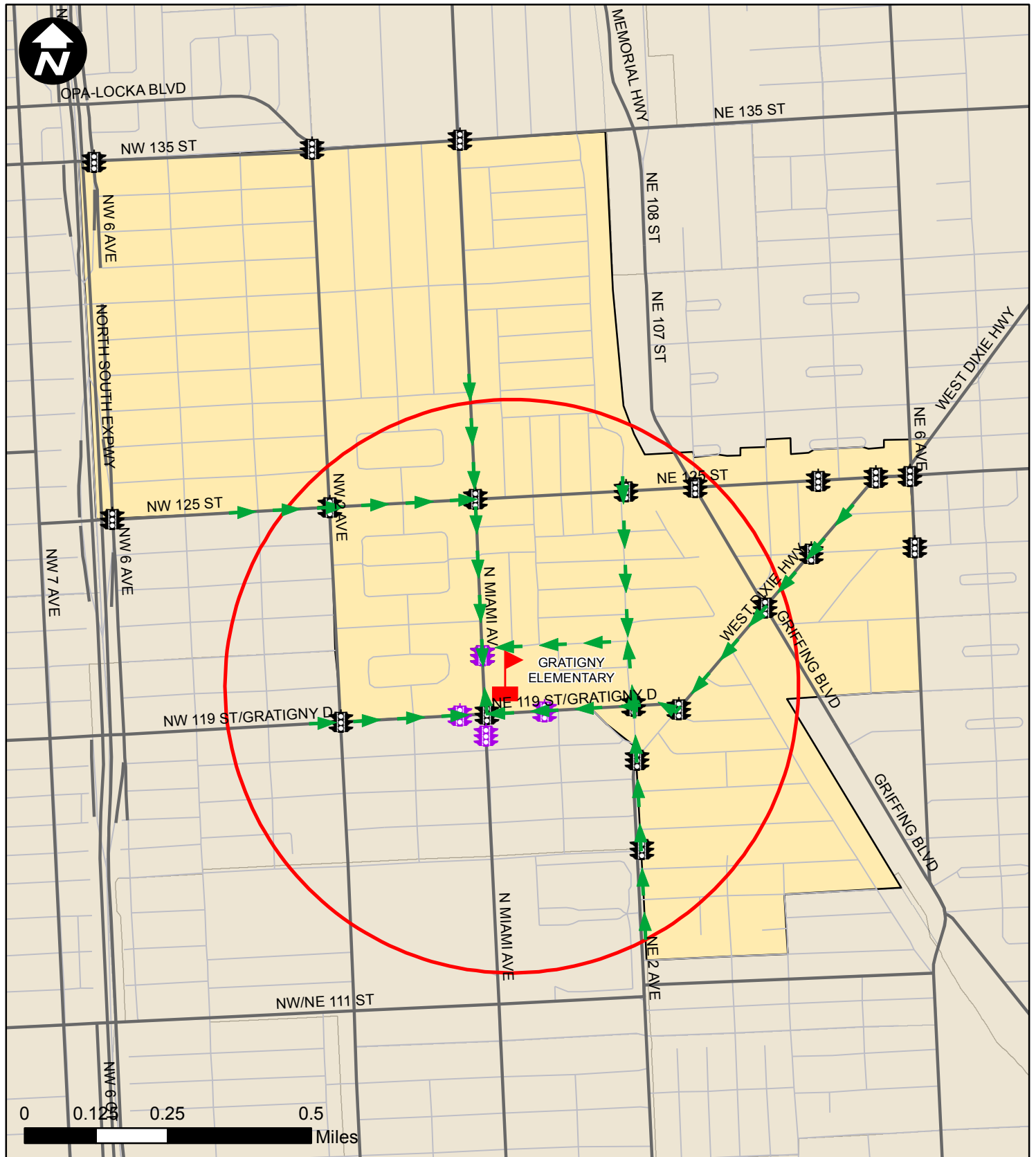


Legend

- Legend**
- | | | | |
|--|---|--|--|
|  Proposed Safe Routes |  Study School |  Traffic Signal |  School Attendance Boundary |
|  Major Streets |  Adjacent School |  School Flasher |  1/2 Mile Radius |
|  Local Streets | | | |

Gratigny Elementary

Gratigny Elementary



Legend

-  Proposed Safe Routes
 Major Streets
 Local Streets
 Study School
 Traffic Signal
 School Flasher
 School Attendance Boundary
 1/2 Mile Radius

Hibiscus Elementary

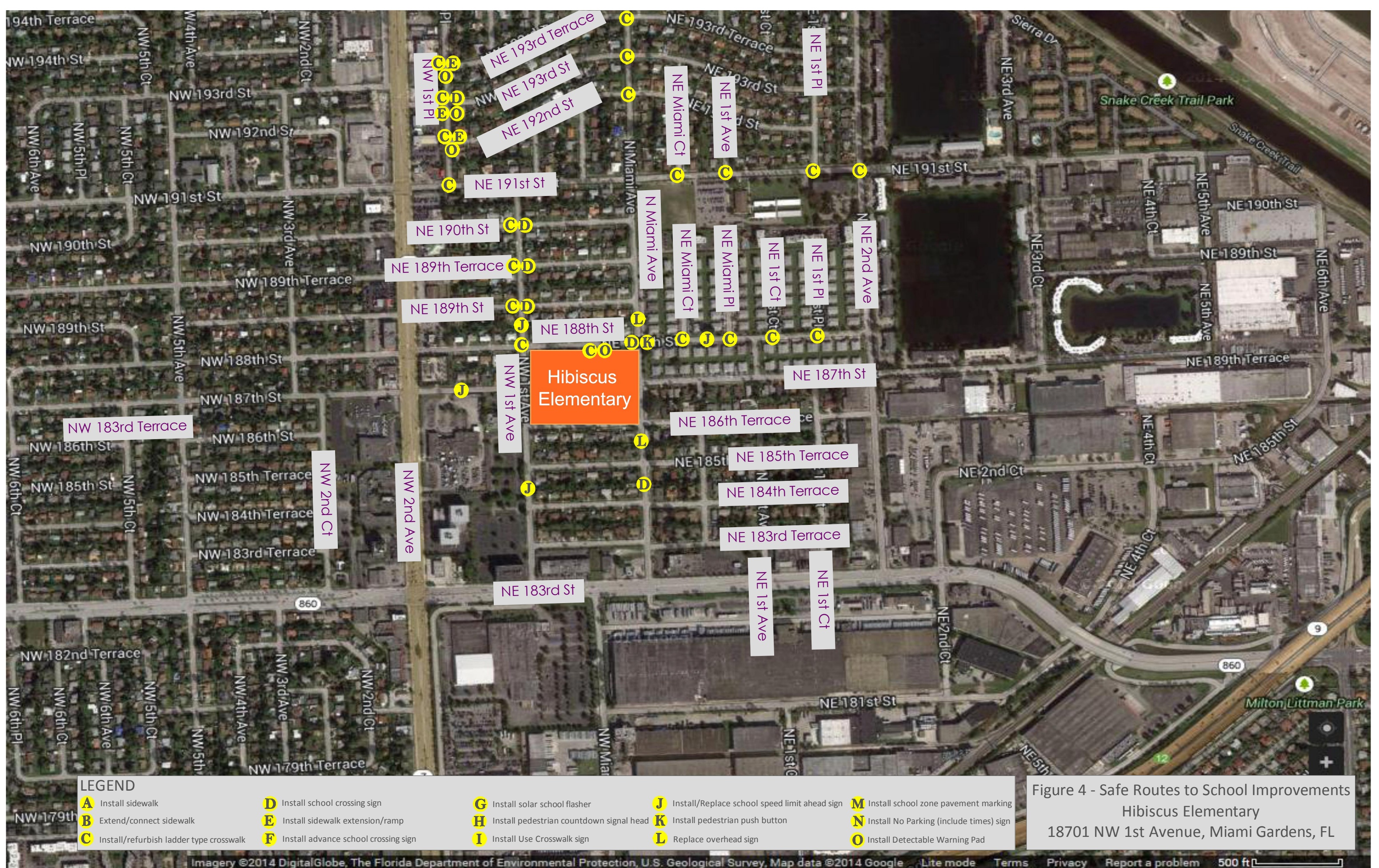
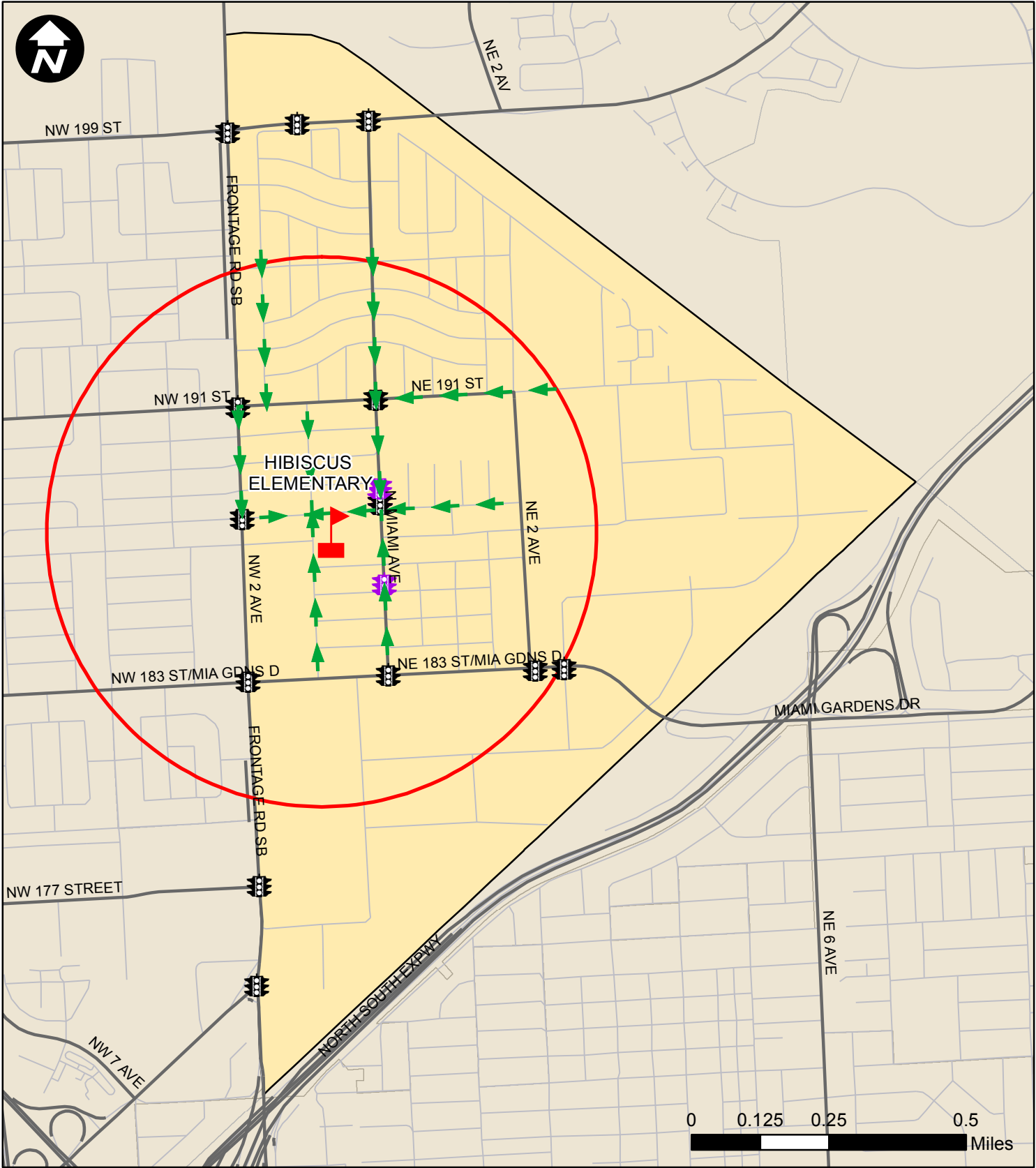


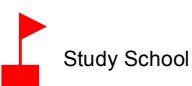
Figure 4 - Safe Routes to School Improvements
Hibiscus Elementary
18701 NW 1st Avenue, Miami Gardens, FL

Hibiscus Elementary



Legend

- Proposed Safe Routes
- Major Streets
- Local Streets



Study School



Traffic Signal



School Flasher

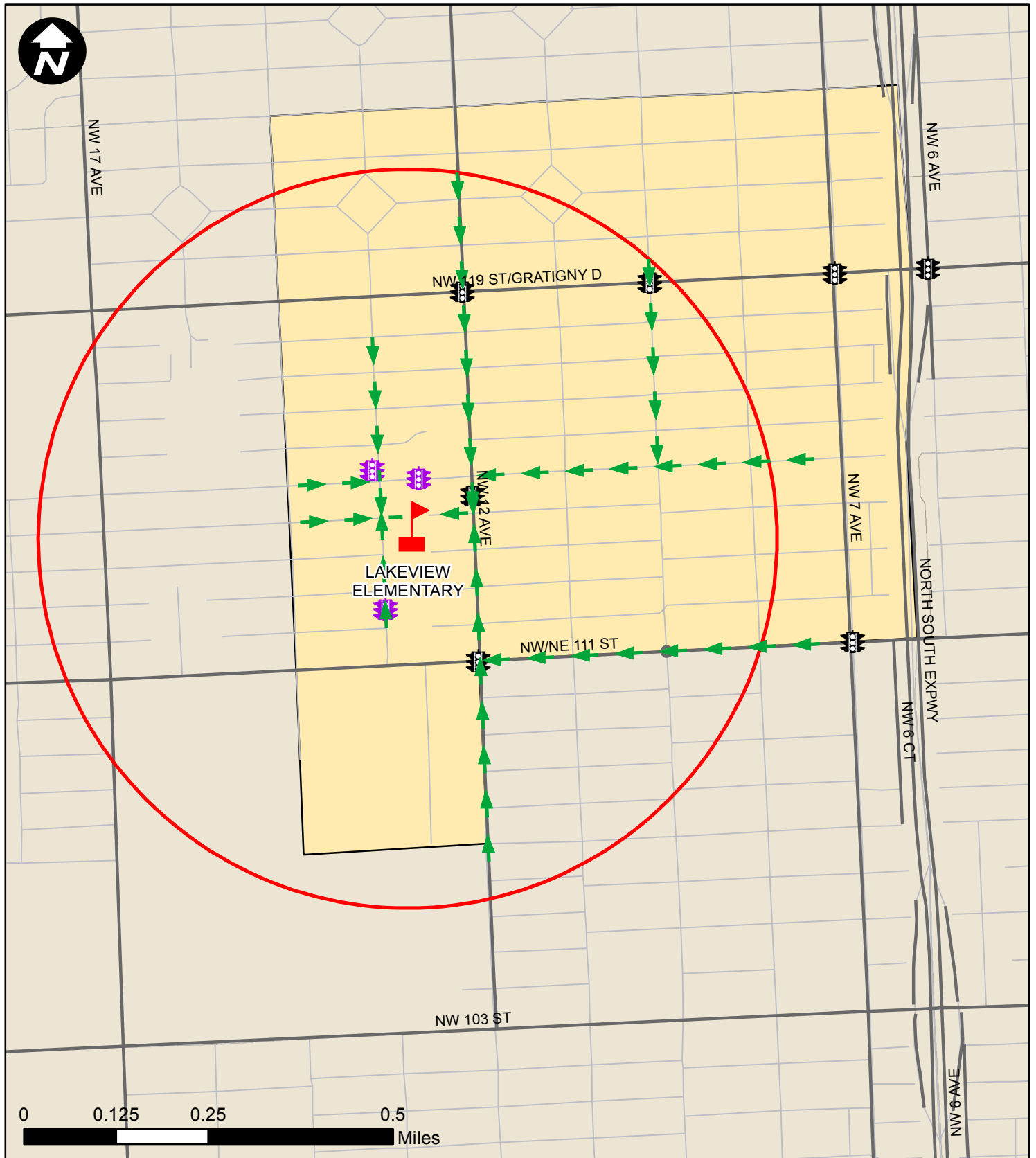
School Attendance Boundary

1/2 Mile Radius

Lakeview Elementary



Lakeview Elementary



Legend

- | | | | |
|--|--|--|--|
|  Proposed Safe Routes |  Study School |  Traffic Signal |  School Attendance Boundary |
|  Major Streets | |  School Flasher |  1/2 Mile Radius |
|  Local Streets | | | |

Lorah Park Elementary

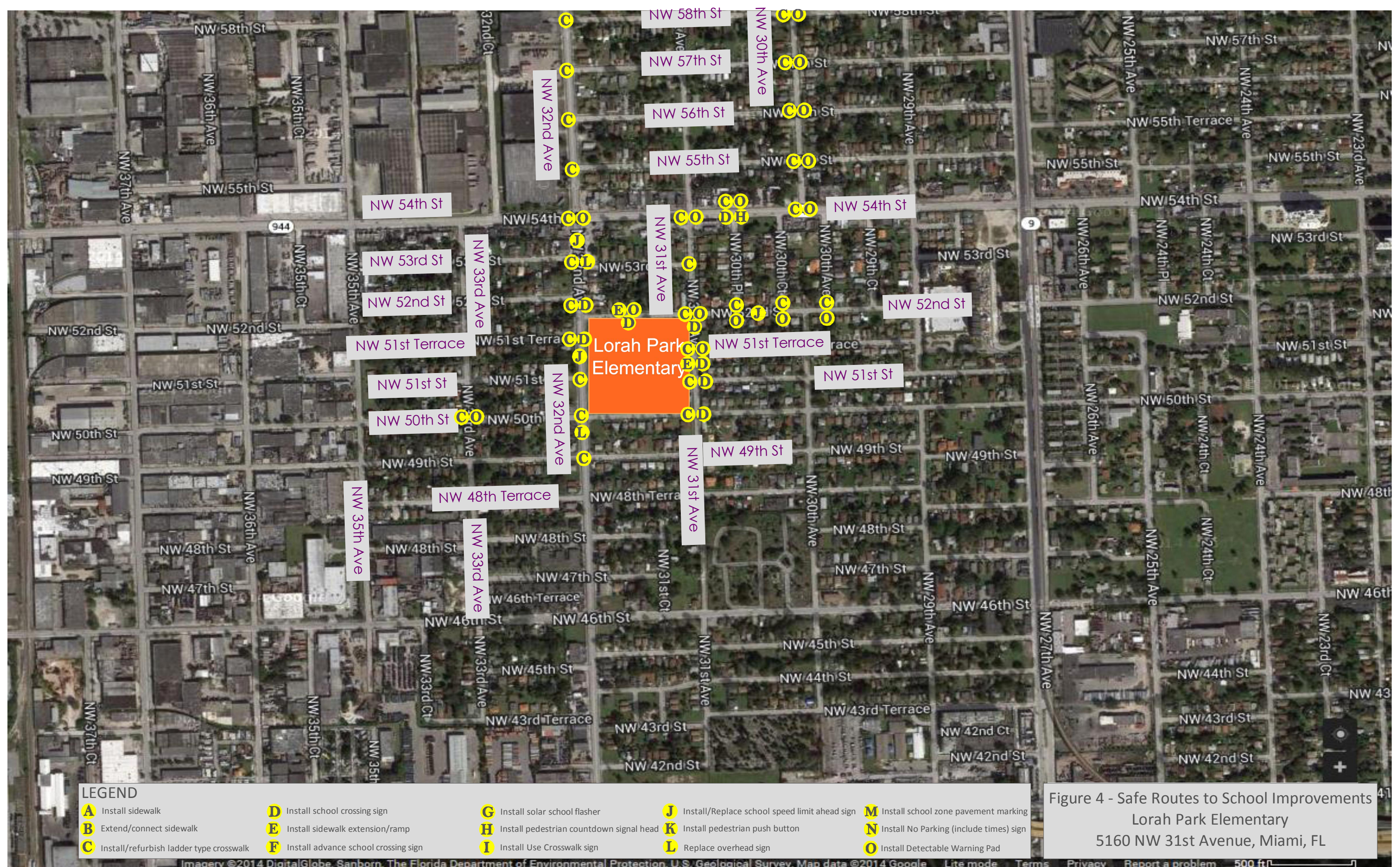
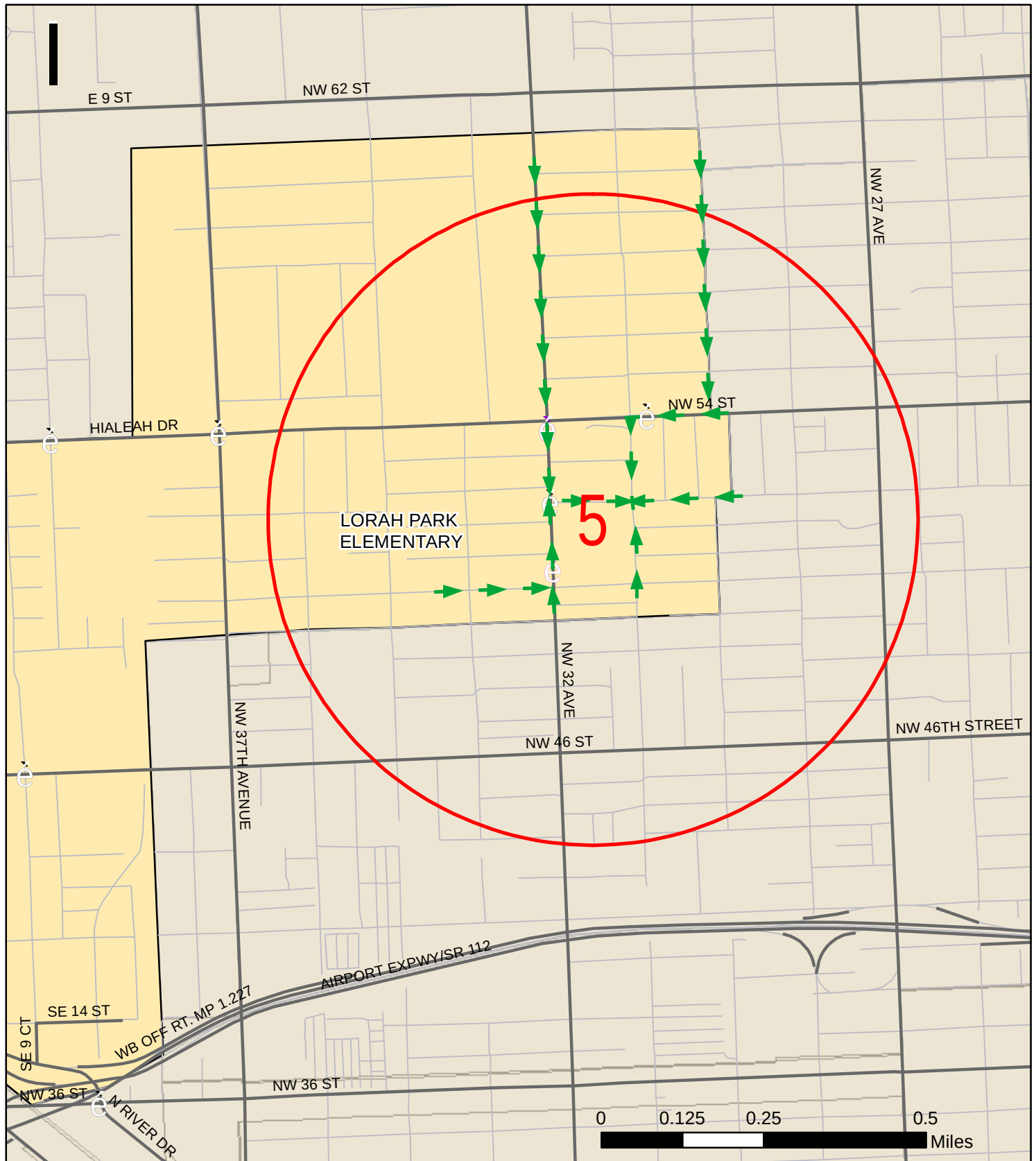
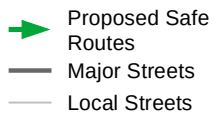


Figure 4 - Safe Routes to School Improvements
Lorah Park Elementary
5160 NW 31st Avenue, Miami, FL

Lorah Park Elementary



Legend



5 Study School



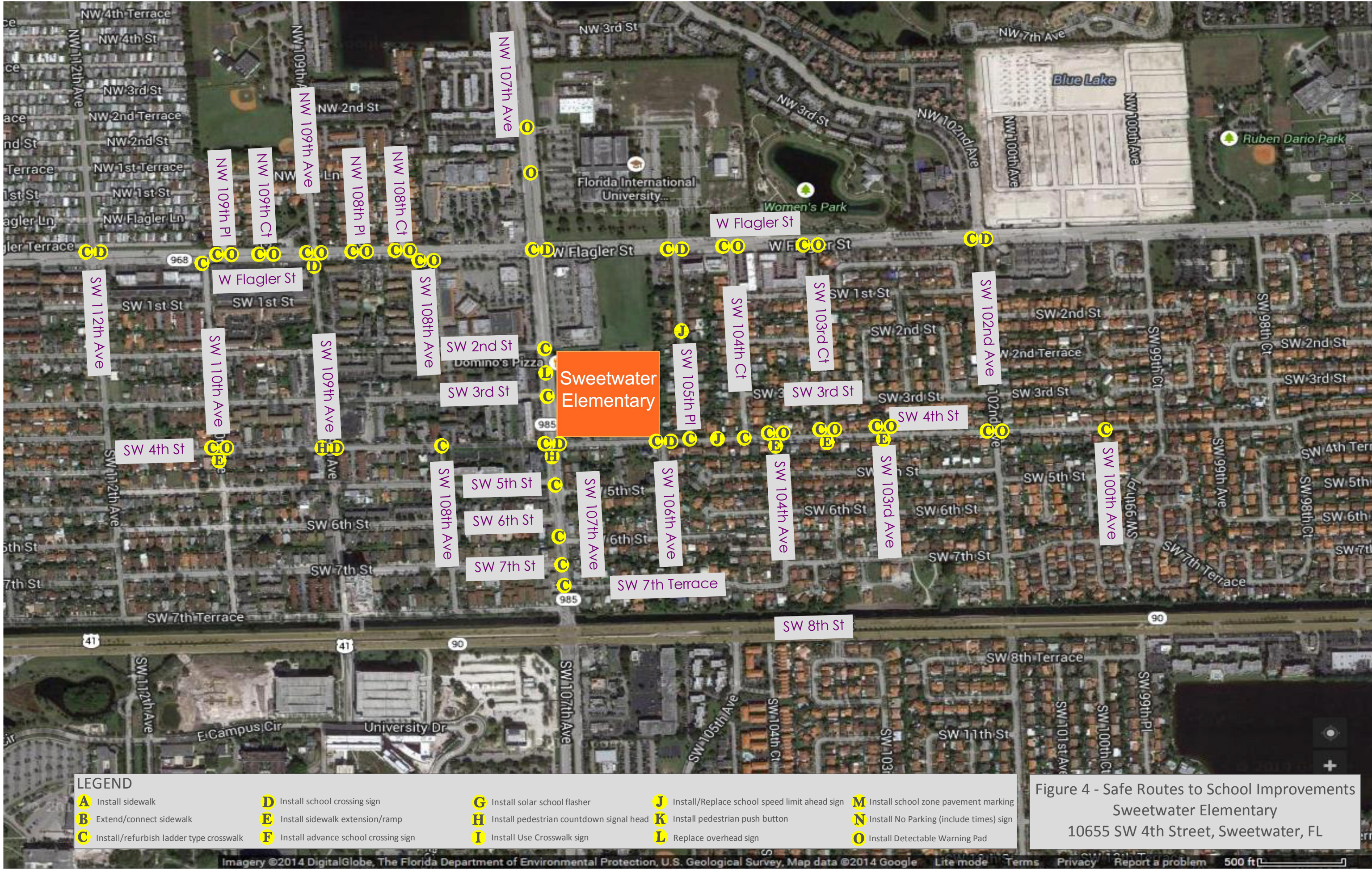
Traffic Signal

School Flasher

School Attendance
Boundary

1/2 Mile Radius

Sweetwater Elementary



LEGEND

- | | | | | |
|--|---|---|--|--|
| A Install sidewalk | D Install school crossing sign | G Install solar school flasher | J Install/Replace school speed limit ahead sign | M Install school zone pavement marking |
| B Extend/connect sidewalk | E Install sidewalk extension/ramp | H Install pedestrian countdown signal head | K Install pedestrian push button | N Install No Parking (include times) sign |
| C Install/refurbish ladder type crosswalk | F Install advance school crossing sign | I Install Use Crosswalk sign | L Replace overhead sign | O Install Detectable Warning Pad |

Figure 4 - Safe Routes to School Improvements
Sweetwater Elementary
10655 SW 4th Street, Sweetwater, FL

Sweetwater Elementary

This map illustrates the proposed safe routes for Sweetwater Elementary, a study school. The school is marked with a red flag icon. A large red circle indicates a 1/2 mile radius around the school. The map shows the school's attendance boundary in yellow. Major streets are shown in grey, and local streets are in light grey. Traffic signals are indicated by black icons, and school flashers are indicated by purple icons. The map includes a north arrow and a scale bar (0 to 0.5 miles). The proposed safe routes are shown as green arrows, primarily along NW 107 Ave and W Flagler St, with additional routes along NW 112 Ave and SW 107 Ave. The map also shows the Dolphin Expressway, SR 836, and various other local streets like NW 12th St, NW 7th St, and Tamiami Trail.

Legend

- Proposed Safe Routes
- Major Streets
- Local Streets
- Study School
- Traffic Signal
- School Flasher
- School Attendance Boundary
- 1/2 Mile Radius



NW 12TH ST.

NW 111 A

NW 12TH STREET

SR 836

~~NB NW 107 AVE~~

SR 836 TOLL PLAZA EB

SR 836 EXT - EB

SR 836 EXT - WB



DOLPHIN EXPRESSWAY

NW 7 STREET

NW 7 ST

FOUNTAINBLEAU BLVD

NW 114 AVE

NW 112 AVE

NW 107 AVE

FLAGLER S

W FLAGLER S

SWEETWATER
ELEMENTARY

SW 109 AVE

W 107 AVE

TAMIAMI TRAIL SW 8ST

SW 117 AVENUE

A horizontal scale bar with a black background and white markings. The markings are labeled 0, 0.125, 0.25, and 0.5. The word "Miles" is written at the right end of the bar.

 Proposed Safe Routes
 Major Streets
 Local Streets
 Study School
 Traffic Signal
 School Flasher
 School Attendance Boundary
 1/2 Mile Radius



Proposed Safe Routes



Major Streets



Local Streets



Study School



Traffic Signal



School Flasher



School Attendance Boundary



1/2 Mile Radius

APPENDIX E
COST ESTIMATES

Arch Creek Elementary
(Including North Miami Middle School)

Arch Creek Elementary School (including N Miami Middle School) - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NE 131st Street						
NE 5th Avenue (traffic circle)	711-11-123, 711-11-125	Add ladder type crosswalk at north and south legs	100	\$14.45	LF	\$1,445.00
	700-20-11	Install fluorescent green school crossing signs facing departure traffic from traffic circle (4 signs)	4	\$350.00	AS	\$1,400.00
	700-48-60 B, 700-48-18	Replace pedestrian crossing signs with fluorescent green school crossing signs (x4)	8	\$455.00	EA	\$3,640.00
NE 6th Avenue	110-4-10B	Remove concrete on all 4 corners	33	\$15.00	SY	\$500.00
	522-1 (1)	Add concrete on all 4 corners	33	\$35.00	SY	\$1,166.67
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	88	\$39.70	SF	\$3,493.60
	711-17	Remove existing standard crosswalk on the north and south legs	240	\$7.00	SF	\$1,680.00
	711-11-123, 711-11-125	Install ladder type at north and south legs	120	\$14.45	LF	\$1,734.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
	700-20-11	Install fluorescent green school crossing signs facing NB and SB traffic (4 signs)	4	\$350.00	AS	\$1,400.00
	Maintenance	18 second clearance time for EB/WB				
East of NE 6th Avenue	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing eastbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NE 7th Avenue						
NE 129th Street	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	90	\$14.45	LF	\$1,300.50
NE 130th Street	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	90	\$14.45	LF	\$1,300.50
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing northbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NE 131st Street	110-4-10B	Remove concrete on the NW, SW and SE corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete on the NW, SW and SE corners	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads the NW, SW and SE corners (3 pads) (embedded)	30	\$39.70	SF	\$1,191.00
Mid-block crossing between NE 131st Street and NW 132nd Street	110-4-10B	Remove concrete on the east and west sides	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the west side	3	\$35.00	SY	\$97.22
	522-1 (1)	Add pedestrian ramp on the east side	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads on the east and west sides	20	\$39.70	SF	\$794.00
	700-20-11	Install fluorescent green school crossing sign facing NB traffic (1 sign)	1	\$350.00	AS	\$455.00
	700-48-60 B, 700-48-18	Replace existing school crossing sign with fluorescent green sign on the southbound approach	2	\$455.00	EA	\$910.00
NE 132nd Street	110-4-10B	Remove concrete on NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NE 133rd Street	110-4-10B	Remove concrete on NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NE 134th Street	110-4-10B	Remove concrete on NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NE 135th Street	Maintenance	12 second clearance EB/WB/NB/SB				\$0.00
	110-4-10B	Remove concrete on NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on all corners (6 pads) (embedded)	60	\$39.70	SF	\$2,382.00
	711-17	Remove ladder type crosswalks at all legs	430	\$7.00	SF	\$3,010.00
	711-11-123, 711-11-125	Add ladder type crosswalk at all legs	260	\$14.45	LF	\$3,757.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
NE 136th Street	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	50	\$14.45	LF	\$722.50
	110-4-10B	Remove concrete on NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NE 137th Street	110-4-10B	Remove concrete on all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove ladder type crosswalks at all legs	340	\$7.00	SF	\$2,380.00
	711-11-123, 711-11-125	Install ladder type crosswalks at all legs	200	\$14.45	LF	\$2,890.00
NE 138th Street	110-4-10B	Remove concrete on all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Install ladder type crosswalks at east and west legs	70	\$14.45	LF	\$1,011.50
	700-48-60 B, 700-48-18	Replace 'school crossing' sign facing southbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NE 139th Street (traffic circle)	700-48-60 B, 700-48-18	Replace pedestrian crossing signs with fluorescent green school crossing signs (x4)	8	\$455.00	EA	\$3,640.00
	700-20-11	Install fluorescent green school crossing signs facing departure traffic from traffic circle (x4)	4	\$350.00	AS	\$1,400.00
NE 9th Avenue						
NE 139th Street (traffic circle)	700-48-60 B, 700-48-18	Replace pedestrian crossing signs with fluorescent green school crossing signs (x4)	8	\$455.00	EA	\$3,640.00
	700-20-11	Install fluorescent green school crossing signs facing departure traffic from traffic circle (x4)	4	\$350.00	AS	\$1,400.00
NE 138th Street	110-4-10B	Remove concrete on all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	100	\$14.45	LF	\$1,445.00
NE 137th Street	110-4-10B	Remove concrete on all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove ladder type crosswalks at the north leg	90	\$7.00	SF	\$630.00
	711-11-123, 711-11-125	Install ladder type crosswalks at the north, south and west legs	110	\$14.45	LF	\$1,589.50

Arch Creek Elementary School (including N Miami Middle School) - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NE 137th Street						
NE 10th Avenue	711-17	Remove existing standard crosswalk at the north and east legs	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Install ladder crosswalk at the north and east legs	110	\$14.45	LF	\$1,589.50
	522-1 (1)	Install sidewalk connector and ramp at the NE corner	8	\$35.00	SY	\$291.67
	110-4-10B	Remove concrete at the NW corner	11	\$15.00	SY	\$166.67
	522-1 (1)	Install sidewalk at the NW corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at the NE and NW corners (embedded)	20	\$39.70	SF	\$794.00
West of NE 10th Avenue	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing westbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
West Dixie Highway	522-1 (1)	Add 140 feet of sidewalk at south side	78	\$35.00	SY	\$2,722.22
NE 8th Avenue	110-4-10B	Remove concrete at the NE, NW, SE, SW corners and at all corners of median except SW corner	19	\$15.00	SY	\$291.67
	522-1 (1)	Install sidewalk at the NE, NW, SE, SW corners and at all corners of median except SW corner	19	\$35.00	SY	\$680.56
	527-2	Add detectable warning pads at NE, NW, SE, SW corners and at all corners of median except SW corner	70	\$39.70	SF	\$2,779.00
	700-48-60 B, 700-48-18	Replace existing school crossing signs with fluorescent green signs on the eastbound and westbound approaches	4	\$455.00	EA	\$1,820.00
Between NE 7thAvenue and NE 8thAvenue	700-48-60 B, 700-48-18	Replace 'speed zone ahead' sign facing eastbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NE 135th Street (safe route on the south side only)						
NE 4th Avenue	711-17	Remove existing standard crosswalk at the north and east legs	90	\$7.00	SF	\$630.00
	711-11-123, 711-11-125	Install ladder crosswalk at the north and east legs	45	\$14.45	LF	\$650.25
NE 5th Avenue (south leg)	711-17	Remove existing standard crosswalk at the north and east legs	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Install ladder crosswalk at the north and east legs	50	\$14.45	LF	\$722.50
NE 6th Avenue	711-17	Remove existing standard crosswalk at the north and east legs	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Install ladder crosswalk at the north and east legs	50	\$14.45	LF	\$722.50
	110-4-10B	Remove concrete at the NE, NW, SE, SW corners	22	\$15.00	SY	\$333.33
	522-1 (1)	Install sidewalk at the NE, NW, SE, SW corners	22	\$35.00	SY	\$777.78
	527-2	Add detectable warning pads at NE, NW, SE, SW corners (8 pads) (embedded)	80	\$39.70	SF	\$3,176.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
	700-20-11	Install fluorescent green school crossing signs facing NB and SB traffic (4 signs)	4	\$350.00	AS	\$1,400.00
East of NE 6th Avenue	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NE 7th Avenue		improvements listed in a prior section				
NE 8th Avenue	110-4-10B	Remove concrete at the NE, NW, SE, SW corners	17	\$15.00	SY	\$250.00
	522-1 (1)	Install sidewalk at the NE, NW, SE, SW corners	17	\$35.00	SY	\$583.33
	527-2	Add detectable warning pads at NE, NW, SE, SW corners (6 pads) (embedded)	60	\$39.70	SF	\$2,382.00
	700-48-60 B, 700-48-18	Replace existing school crossing signs with fluorescent green signs on the NE and SE corners.	4	\$455.00	EA	\$1,820.00
	700-20-11	Install fluorescent green school crossing signs on the SW (facing west), NW (facing east) and SE (west) corners.	3	\$350.00	AS	\$1,050.00
	711-17	Remove existing high emphasis crosswalk at the south, east and west legs	800	\$7.00	SF	\$5,600.00
	711-11-123, 711-11-125	Install ladder crosswalk at the south, east and west legs	160	\$14.45	LF	\$2,312.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
NE 9th Avenue	110-4-10B	Remove concrete at the NE, NW, SE, SW corners	22	\$15.00	SY	\$333.33
	522-1 (1)	Install sidewalk at the NE, NW, SE, SW corners	22	\$35.00	SY	\$777.78
	527-2	Add detectable warning pads at NE, NW, SE, SW corners (8 pads) (embedded)	80	\$39.70	SF	\$3,176.00
	700-48-60 B, 700-48-18	Replace existing school crossing signs with fluorescent green signs on the NE (facing east) and NW (facing south) corners.	4	\$455.00	EA	\$1,820.00
	700-20-11	Install fluorescent green school crossing signs on the NW (facing east), NE (facing south), SE (facing south and west) and SW (facing west and north) corners.	6	\$350.00	AS	\$2,100.00
	711-17	Remove existing high emphasis crosswalk at the south, east and west legs	1300	\$7.00	SF	\$9,100.00
	711-11-123, 711-11-125	Install ladder crosswalk at the south, east and west legs	260	\$14.45	LF	\$3,757.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
East of NE 9th Avenue	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$156,654.74
Maintenance of Traffic (10%)						\$15,665.47
Mobilization (10%)						\$15,665.47
Total Construction Cost						\$187,985.69
PE (15%)						\$28,197.85
CEI (15%)						\$28,197.85
Total Funding Request						\$244,381.39
Contingency (15%)						\$28,197.85
Total Cost						\$272,579.25

Comstock Elementary

Comstock Elementary School - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 23rd Street						
NW 18th Avenue	711-11-123, 711-11-125	Add ladder type crosswalk at north and south legs	90	\$14.45	LF	\$1,300.50
	711-12-125, 711-11-161	Refurbish school zone pavement markings.	2	\$316.88	EA	\$633.76
	700-48-60, 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing westbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
Pedestrian crossing between NW 18th Avenue and NW 18th Court	522-1 (1)	Add pedestrian ramps on the north and south sides	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing high emphasis crosswalk	125	\$7.00	SF	\$875.00
	711-11-123, 711-11-125	Install ladder type crosswalk	25	\$14.45	LF	\$361.25
	653-191	Install pedestrian signal actuation sign panels (2 panels)	2	\$714.90	AS	\$1,429.80
NW 18th Court	Maintenance	Activate countdown feature				
	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing high emphasis crosswalk at the north leg	200	\$7.00	SF	\$1,400.00
NW 19th Avenue	711-11-123, 711-11-125	Install ladder type crosswalk at the north leg	40	\$14.45	LF	\$578.00
	711-17	Remove existing high emphasis crosswalk at the south leg	175	\$7.00	SF	\$1,225.00
	711-11-123, 711-11-125	Install ladder type crosswalk at the south leg	35	\$14.45	LF	\$505.75
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing eastbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
	711-12-125, 711-11-161	Refurbish school zone pavement markings.	2	\$316.88	EA	\$633.76
NW 21st Avenue	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove existing standard crosswalk at north and south legs	180	\$7.00	SF	\$1,260.00
NW 22nd Avenue	711-11-123, 711-11-125	Install ladder type crosswalk at north and south legs	90	\$14.45	LF	\$1,300.50
	711-17	Remove existing standard crosswalk at all legs	540	\$7.00	SF	\$3,780.00
	711-11-123, 711-11-125	Install ladder type crosswalk at all legs	270	\$14.45	LF	\$3,901.50
	110-4-10B	Remove concrete at SE, NW, and NE corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete at SE, NW, and NE corners	8	\$35.00	SY	\$291.67
NW 21st Street	527-2	Add detectable warning pads to SE, NW, and NE corners (3 pads) (embedded)	30	\$39.70	SF	\$1,191.00
	711-17	Remove existing standard crosswalk at the east leg	90	\$7.00	SF	\$630.00
	711-11-123, 711-11-125	Install ladder type crosswalk at the east leg	45	\$14.45	LF	\$650.25
	110-4-10B	Remove concrete at NE and SE corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete at NE and SE corners - add ramp at NE corner and connection to sidewalk	8	\$35.00	SY	\$291.67
NW 22nd Street	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at the east leg	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Install ladder type crosswalk at the east leg	55	\$14.45	LF	\$794.75
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
NW 23rd Street	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove existing standard crosswalk at all legs	460	\$7.00	SF	\$3,220.00
	711-11-123, 711-11-125	Install ladder type crosswalk at all legs	230	\$14.45	LF	\$3,323.50
	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
NW 24th Street	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at the east leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Install ladder type crosswalk at the east leg	35	\$14.45	LF	\$505.75
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
NW 26th Street	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove existing standard crosswalk at the east leg	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Install ladder type crosswalk at the east leg	50	\$14.45	LF	\$722.50
NW 19th Avenue						
NW 18th Street	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at the east leg	60	\$7.00	SF	\$420.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west and east legs	30	\$14.45	LF	\$433.50
NW 18th Terrace	711-17	Remove existing standard crosswalk at the east leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west and east legs	90	\$14.45	LF	\$1,300.50
	522-1 (1)	Provide sidewalk connection at west leg	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads to NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 19th Street	711-17	Remove existing standard crosswalk at the east leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Install ladder type crosswalk at the east leg	35	\$14.45	LF	\$505.75
NW 19th Terrace	522-1 (1)	Add sidewalk to east side of road, extend 45' from south and 52' from north	54	\$35.00	SY	\$1,886.11
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east leg	25	\$14.45	LF	\$361.25
	653-191	Add pedestrian countdown heads to east and west legs	4	\$714.90	AS	\$2,859.60
NW 20th Street	711-17	Remove existing standard crosswalk at east and west legs	260	\$7.00	SF	\$1,820.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west and east legs	130	\$14.45	LF	\$1,878.50
	700-20-11	Install fluorescent green school crossing signs on the eastbound and westbound approaches. (4 signs)	4	\$350.00	AS	\$1,400.00
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NW 21st Street	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	60	\$14.45	LF	\$867.00
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NW 21st Terrace	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	70	\$14.45	LF	\$1,011.50
	110-4-10B	Remove the sidewalk on the east side south of NW 22nd Street (approx. 100 feet)	56	\$15.00	SY	\$833.33
NW 22nd Street	522-1 (1)	Add the sidewalk on the east side south of NW 22nd Street (approx. 100 feet)	56	\$35.00	SY	\$1,944.44
	700-20-11	Install fluorescent green school crossing signs on the eastbound and westbound approaches. (2 signs)	2	\$350.00	AS	\$700.00
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners - Add pedestrian ramps on the NE and SE corners.	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	70	\$14.45	LF	\$1,011.50
Railroad crossing	522-2	Construct paved crossing across railroad on the east side (approx. 60 feet)	33	\$62.87	SY	\$2,095.67
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
		Coordinate with the City of Miami to remove the parking meters (if inactive) on sidewalks along NW 19th Avenue between NW 22nd Street and NW 20th Street				
NW 17th Avenue						
NW 19th Terrace	110-4-10B	Remove concrete at NW corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at NW corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at NW corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at east and west legs	150	\$7.00	SF	\$1,050.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west and east legs	75	\$14.45	LF	\$1,083.75
NW 19th Street	110-4-10B	Remove concrete at NW corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at NW corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at NW corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at west leg	80	\$7.00	SF	\$560.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	40	\$14.45	LF	\$578.00
NW 20th Street	711-17	Remove existing standard crosswalk at east and west legs	220	\$7.00	SF	\$1,540.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west and east legs	110	\$14.45	LF	\$1,589.50
NW 21st Terrace	110-4-10B	Remove concrete at NE corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at NE corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at NW corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at east and west legs	180	\$7.00	SF	\$1,260.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west and east legs	90	\$14.45	LF	\$1,300.50
NW 21st Street	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at east and west legs	150	\$7.00	SF	\$1,050.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west and east legs	75	\$14.45	LF	\$1,083.75

Comstock Elementary School - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 23rd Street	711-17	Remove existing standard crosswalk at all legs	430	\$7.00	SF	\$3,010.00
	711-11-123, 711-11-125	Add ladder type crosswalk at all legs	215	\$14.45	LF	\$3,106.75
	653-191	Add pedestrian countdown signal heads at all approaches	8	\$714.90	AS	\$5,719.20
NW 24th Street	711-17	Remove existing standard crosswalk at the east leg	60	\$7.00	SF	\$420.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east leg	30	\$14.45	LF	\$433.50
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$123,224.06
Maintenance of Traffic (10%)						\$12,322.41
Mobilization (10%)						\$12,322.41
Total Construction Cost						\$147,868.88
PE (15%)						\$22,180.33
CEI (15%)						\$22,180.33
Total Funding Request						\$192,229.54
Contingency (15%)						\$22,180.33
Total Cost						\$214,409.87

Crestview Elementary

Crestview Elementary School - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 191st Street						
NW 18th Avenue	711-17	Remove existing standard crosswalk on south leg	120	\$7.00	SF	\$840.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the south leg	60	\$14.45	LF	\$867.00
NW 19th Avenue	711-17	Remove existing standard crosswalk on all legs	370	\$7.00	SF	\$2,590.00
	711-11-123, 711-11-125	Add ladder type crosswalk on all legs	185	\$14.45	LF	\$2,673.25
NW 19th Avenue						
NW 190th Terrace	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the east and west legs	75	\$14.45	LF	\$1,083.75
NW 187th Terrace	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the north and south legs	100	\$14.45	LF	\$1,445.00
NW 187th Street	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk to all legs	170	\$14.45	LF	\$2,456.50
NW 186th Street	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the east and west legs	70	\$14.45	LF	\$1,011.50
NW 185th Terrace	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the east and west legs	70	\$14.45	LF	\$1,011.50
NW 185th Street	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the east and west legs	70	\$14.45	LF	\$1,011.50
NW 184th Street	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the east and west legs	80	\$14.45	LF	\$1,156.00
NW 22nd Avenue						
NW 184th Street	711-11-123, 711-11-125	Add ladder type crosswalk at the west leg	30	\$14.45	LF	\$433.50
NW 185th Street	711-11-123, 711-11-125	Add ladder type crosswalk at the east leg	35	\$14.45	LF	\$505.75
NW 185th Terrace	711-11-123, 711-11-125	Add ladder type crosswalk at the east leg	35	\$14.45	LF	\$505.75
Between NW 185th Terrace and NW 187th Street	700-48-18	Add a School Speed Limit sign to the flasher on the west side facing northbound traffic	1	\$410.00	EA	\$410.00
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing eastbound traffic with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NW 187th Street	711-17	Remove existing high emphasis crosswalks at the north, west, and east legs	750	\$7.00	SF	\$5,250.00
	711-11-123, 711-11-125	Add ladder type crosswalks at the north, west, and east legs	150	\$14.45	LF	\$2,167.50
	700-48-60 B, 700-48-18	Replace school crossing sign on the NE corner with a fluorescent green sign at NE corner	2	\$455.00	EA	\$910.00
	700-20-11	Install a fluorescent green school crossing sign on the NW corner facing southbound traffic	1	\$350.00	AS	\$350.00
Midblock Between NW 187th Street and NW 188th Terrace	700-48-60 B, 700-48-18	Replace school crossing signs facing NB and SB at the signalized crossing with fluorescent green signs	4	\$455.00	EA	\$1,820.00
	711-17	Remove existing high emphasis crosswalk	275	\$7.00	SF	\$1,925.00
	711-11-123, 711-11-125	Add ladder type crosswalk	55	\$14.45	LF	\$794.75
	Maintenance	Coordinate with MDT to relocate the bus stop sign facing NB traffic to improve visibility of crosswalk				
NW 189th Terrace	Maintenance	Verify flashers operate on the northbound and southbound approaches (maintenance)				
	700-48-18	Add S1-1 and W16-7P on northbound flashers	2	\$410.00	EA	\$820.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	70	\$14.45	LF	\$1,011.50
	700-48-60 B, 700-48-18	Replace pedestrian crossing signs with S1-1 and W16-7P at east and west legs	4	\$455.00	EA	\$1,820.00
South of NW 190th Terrace	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing southbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NW 190th Terrace	711-11-123, 711-11-125	Add ladder type crosswalk at the west leg	30	\$14.45	LF	\$433.50
NW 191st Street	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	75	\$14.45	LF	\$1,083.75
NW 191st Terrace	110-4-10B	Remove concrete on the NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the west leg	35	\$14.45	LF	\$505.75
NW 192nd Terrace	110-4-10B	Remove concrete on the NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	70	\$14.45	LF	\$1,011.50
NW 193rd Terrace	110-4-10B	Remove concrete on the NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	80	\$14.45	LF	\$1,156.00
NW 194th Terrace	110-4-10B	Remove concrete on the NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the west leg	30	\$14.45	LF	\$433.50

Crestview Elementary School - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 195th Street	110-4-10B	Remove concrete on the NW and SW corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete on the NW and SW corners	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at NW, SW, and NE corners (3 pads) (embedded)	30	\$39.70	SF	\$1,191.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	85	\$14.45	LF	\$1,228.25
NW 24th Avenue						
NW 191st Street	110-4-10B	Remove concrete on the NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east leg	40	\$14.45	LF	\$578.00
NW 187th Street	110-4-10B	Remove concrete on the NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the east leg	45	\$14.45	LF	\$650.25
NW 186th Street	110-4-10B	Remove concrete on the NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on the NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the east leg	40	\$14.45	LF	\$578.00
NW 184th Street	110-4-10B	Remove concrete on the NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on the NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the east leg	45	\$14.45	LF	\$650.25
NW 187th Street						
NW 23rd Court	110-4-10B	Remove concrete ramp at NW and NE corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Install concrete ramp at NW and NE corners - Reconstruct a ramp at NW corner	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at the NW and NE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the north leg	40	\$14.45	LF	\$578.00
East of NW 23rd Court	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing eastbound traffic with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NW 23rd Avenue	110-4-10B	Remove concrete on the NE and NW corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete on the NE and NW corners - Construct a ramp at NE corner	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads to the NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
		NOTE: Conflicting signage between "Do Not Enter" and "School Speed Limit" sign on west leg				
NW 22nd Place	110-4-10B	Remove concrete on the SW and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the SW and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads to the SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the south leg	50	\$14.45	LF	\$722.50
NW 22nd Court	110-4-10B	Remove concrete on the SW corners	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete on the SW and SE corners - Relocate pedestrian ramp at SE corner away from drainage	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads to the SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the south leg	35	\$14.45	LF	\$505.75
East of NW 22nd Avenue	700-48-18	Install a fluorescent green school speed limit ahead sign (S4-5) per MUTCD facing westbound traffic	1	\$410.00	EA	\$410.00
NW 21st Avenue	110-4-10B	Remove concrete on all 4 corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all 4 corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the north and south legs	90	\$14.45	LF	\$1,300.50
NW 18th Avenue	110-4-10B	Remove concrete on the NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk to the north leg	40	\$14.45	LF	\$578.00
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$98,445.81
Maintenance of Traffic (10%)						\$9,844.58
Mobilization (10%)						\$9,844.58
Total Construction Cost						\$118,134.97
PE (15%)						\$17,720.25
CEI (15%)						\$17,720.25
Total Funding Request						\$153,575.46
Contingency (15%)						\$17,720.25
Total Cost						\$171,295.70

Edison Park K-8 Center

Edison Park K-8 Center - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 62nd Street between NW 4th Avenue and NW 1st Place						
NW 3rd Avenue	110-4-10B	Remove concrete on the NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on the NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 3rd Court	110-4-10B	Remove concrete on the NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on the NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 2nd Avenue	110-4-10B	Remove concrete on all four corners	22	\$15.00	SY	\$333.33
	522-1 (1)	Add concrete on all four corners	22	\$35.00	SY	\$777.78
	527-2	Add detectable warning pads on all four corners (8 pads) (embedded)	80	\$39.70	SF	\$3,176.00
	700-48-60 B, 700-48-18	Replace existing school crossing signs with fluorescent green signs on the NE, NW and SE corners	6	\$455.00	EA	\$2,730.00
	Maintenance	Trim overgrown trees at the NW and SE corners (maintenance)				
	711-17	Remove existing high emphasis crosswalks at all legs	1325	\$7.00	SF	\$9,275.00
	711-11-123, 711-11-125	Install ladder type crosswalks at all legs	265	\$14.45	LF	\$3,829.25
NW 67nd Street between NW 5th Avenue and N Miami Avenue						
NW 5th Avenue	700-48-60 B, 700-48-18	Replace school crossing sign at NW and SW corners with fluorescent green signs	4	\$455.00	EA	\$1,820.00
	110-4-10B	Remove concrete on NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 4th Court	110-4-10B	Remove concrete on NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 4th Avenue (South side)	110-4-10B	Remove concrete on SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing high emphasis crosswalk on the south leg	175	\$7.00	SF	\$1,225.00
	711-11-123, 711-11-125	Add ladder crosswalk on the south leg	35	\$14.45	LF	\$505.75
NW 4th Avenue (North side)	110-4-10B	Remove concrete on NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder crosswalk on the north leg	35	\$14.45	LF	\$505.75
NW 3rd Court (South side)	110-4-10B	Remove concrete on SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder crosswalk on the south leg	35	\$14.45	LF	\$505.75
NW 3rd Avenue (North side)	110-4-10B	Remove concrete on NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the north leg	35	\$14.45	LF	\$505.75
NW 3rd Avenue (South side)	110-4-10B	Remove concrete on SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the south leg	35	\$14.45	LF	\$505.75
NW 2nd Court (North side)	110-4-10B	Remove concrete on NE and NW corners - Reconstruct the pedestrian ramp (too steep)	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on NE and NW corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the north leg	35	\$14.45	LF	\$505.75
NW 2nd Court (South side)	110-4-10B	Remove concrete on SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the south leg	40	\$14.45	LF	\$578.00
NW 2nd Avenue	711-17	Remove existing standard crosswalk on the north and south legs	220	\$7.00	SF	\$1,540.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the north and south legs	110	\$14.45	LF	\$1,589.50
	700-48-18	Add a pedestrian signal actuation information sign on the southeast corner (1 sign)	1	\$410.00	EA	\$410.00
NW 1st Place (South side)	522-1 (1)	Add pedestrian access ramps on the SE and SW corners	17	\$35.00	SY	\$583.33
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the south leg	45	\$14.45	LF	\$650.25
NW Miami Place (South side)	522-1 (1)	Add pedestrian access ramps on the SE and SW corners	17	\$35.00	SY	\$583.33
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the south leg	45	\$14.45	LF	\$650.25
	Maintenance	Trim tree on the SE corner (maintenance)				
N Miami Avenue	711-17	Remove existing standard crosswalk on all legs	360	\$7.00	SF	\$2,520.00
	711-11-123, 711-11-125	Add ladder type crosswalk on all legs	180	\$14.45	LF	\$2,601.00
	700-48-60 B, 700-48-18	Replace school crossing signs with fluorescent green signs at all four corners	8	\$455.00	EA	\$3,640.00
	110-4-10B	Remove concrete on all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all four corners (5 pads – 2 at NE corner, 1 each at other corners) (embedded)	50	\$39.70	SF	\$1,985.00
	700-48-60 B, 700-48-18	Replace pedestrian signal actuation information signs (4 signs)	4	\$455.00	EA	\$1,820.00
NW 2nd Avenue between NW 69th Street and NW 63rd Street						
NW 69thStreet (West side)	110-4-10B	Remove concrete on NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on west leg	60	\$7.00	SF	\$420.00
	711-11-123, 711-11-125	Add ladder type crosswalk on west leg	30	\$14.45	LF	\$433.50
NW 69th Street (East side)	110-4-10B	Remove concrete on NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on east leg	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the east leg	50	\$14.45	LF	\$722.50
NW 68thTerrace (East side)	110-4-10B	Remove concrete on NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on east leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the east leg	35	\$14.45	LF	\$505.75
NW 68th Street (East side)	110-4-10B	Remove concrete on NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on east leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the east leg	35	\$14.45	LF	\$505.75
NW 64th Street (West side)	110-4-10B	Remove concrete on NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on west leg	90	\$7.00	SF	\$630.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the west leg	45	\$14.45	LF	\$650.25
	522-1 (1)	Add a pedestrian access ramp on the NW corner to align with crosswalk	8	\$35.00	SY	\$291.67
	Maintenance	Fix pot holes within crosswalk (maintenance)				
NW 63rd Street (West side)	110-4-10B	Remove concrete on NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on west leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the west leg	35	\$14.45	LF	\$505.75

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 64th Street between NW 2nd Avenue and NW 4th Avenue						
NW 2nd Place	110-4-10B	Remove concrete on all four corners - reconstruct pedestrian access ramps	33	\$15.00	SY	\$500.00
	522-1 (1)	Add concrete on all four corners	33	\$35.00	SY	\$1,166.67
	527-2	Add detectable warning pads on all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add crosswalks on the north and south legs	80	\$14.45	LF	\$1,156.00
NW 3rd Avenue	110-4-10B	Remove concrete on all four corners - reconstruct pedestrian access ramps	33	\$15.00	SY	\$500.00
	522-1 (1)	Add concrete on all four corners	33	\$35.00	SY	\$1,166.67
	527-2	Add detectable warning pads on all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add crosswalks on the north and south legs	80	\$14.45	LF	\$1,156.00
NW 3rd Court	110-4-10B	Remove concrete on all four corners - reconstruct pedestrian access ramp on SW corner	17	\$15.00	SY	\$250.00
	522-1 (1)	Add concrete on all four corners	17	\$35.00	SY	\$583.33
	527-2	Add detectable warning pads on all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add crosswalks on the north and south legs	80	\$14.45	LF	\$1,156.00
NW 4th Avenue between NW 62nd Street and NW 64th Street						
NW 63rd Street (West side)	110-4-10B	Remove concrete on NW and SW corners - reconstruct pedestrian access ramp on NW corner	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on NW and SW corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add crosswalk on the west leg	40	\$14.45	LF	\$578.00
NW 64th Street	110-4-10B	Remove concrete on all four corners - reconstruct pedestrian access ramp on NW corner	17	\$15.00	SY	\$250.00
	522-1 (1)	Add concrete on all four corners	17	\$35.00	SY	\$583.33
	527-2	Add detectable warning pads on all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add crosswalks on the east and west legs	80	\$14.45	LF	\$1,156.00
North of NW 64th Street	700-48-60 B, 700-48-18	Replace school crossing ahead sign with a fluorescent green sign	2	\$455.00	EA	\$910.00
	110-4-10B	Remove concrete on the east side driveway	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on the east side driveway	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on the east side driveway (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 65th Street	110-4-10B	Remove concrete on NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add crosswalk on the east leg	35	\$14.45	LF	\$505.75
NW 66th Street (West side)	110-4-10B	Remove concrete on NW and SW corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on NW and SW corners - add new pedestrian access ramp on SW corner	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add crosswalk on the west leg	35	\$14.45	LF	\$505.75
NW 66th Street (East side)	110-4-10B	Remove concrete on NE and SE corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on NE and SE corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add crosswalk on the east leg	35	\$14.45	LF	\$505.75
NW 71st Street between NW 6th Court and NW 5thAvenue (safe route on the south side only)						
NW 6th Court (South side)	110-4-10B	Remove concrete on SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on south leg	90	\$7.00	SF	\$630.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the south leg	45	\$14.45	LF	\$650.25
NW 6th Avenue (South side)	110-4-10B	Remove concrete on SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on south leg	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the south leg	50	\$14.45	LF	\$722.50
NW 5th Place (South side)	110-4-10B	Remove concrete on SE and SW corners	17	\$15.00	SY	\$250.00
	522-1 (1)	Add concrete on SE and SW corners - reconstruct pedestrian access ramps on SE and SW corners	17	\$35.00	SY	\$583.33
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on south leg	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the south leg	50	\$14.45	LF	\$722.50
NW 5th Court (South side)	110-4-10B	Remove concrete on SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on south leg	50	\$7.00	SF	\$350.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the south leg	25	\$14.45	LF	\$361.25
NW 5th Avenue (South side)	110-4-10B	Remove concrete on SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete on SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads on SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk on south leg	140	\$7.00	SF	\$980.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the south leg	70	\$14.45	LF	\$1,011.50
NW 5th Avenue between NW 71st Street and NW 67th Street						
NW 69th Street	110-4-10B	Remove concrete on all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add crosswalk on the east and west legs	90	\$14.45	LF	\$1,300.50
	700-48-60 B, 700-48-18	Replace school crossing ahead sign with a fluorescent green sign	2	\$455.00	EA	\$910.00
NW 69th Street between NW 2nd Avenue and NW 5th Avenue						
NW 2nd Court	110-4-10B	Remove concrete on all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add crosswalk on the north and south legs	60	\$14.45	LF	\$867.00
NW 3rd Avenue	110-4-10B	Remove concrete on all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add crosswalk on the north and south legs	60	\$14.45	LF	\$867.00
NW 4th Avenue	110-4-10B	Remove concrete on all four corners - reconstruct pedestrian access ramps on NW and SW corners	22	\$15.00	SY	\$333.33
	522-1 (1)	Add concrete on all four corners	22	\$35.00	SY	\$777.78
	527-2	Add detectable warning pads on all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add crosswalk on the north and south legs	60	\$14.45	LF	\$867.00
NW 4th Court	110-4-10B	Remove concrete on all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete on all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add crosswalk on the north and south legs	60	\$14.45	LF	\$867.00
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$144,346.00
Maintenance of Traffic (10%)						\$14,434.60
Mobilization (10%)						\$14,434.60
Total Construction Cost						\$173,215.20
PE (15%)						\$25,982.28
CEI (15%)						\$25,982.28
Total Funding Request						\$225,179.76
Contingency (15%)						\$25,982.28
Total Cost						\$251,162.04

Eneida Massas Hartner Elementary
(Including Jose De Diego Middle School)

Eneida Massas Hartner Elementary School (including Jose De Diego Middle School) - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 6th Avenue						
NW 32nd Street	700-48-60 B, 700-48-18	Replace existing school crossing sign with fluorescent green sign	2	\$455.00	EA	\$910.00
	711-17	Remove existing high emphasis crosswalks on the south, east and north legs	525	\$7.00	SF	\$3,675.00
	711-11-123, 711-11-125	Install ladder type crosswalks on the south, east and north legs	105	\$14.45	LF	\$1,517.25
	110-4-10B	Remove concrete at NW and SW corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at NW and SW corners	11	\$35.00	SY	\$388.89
NW 30th Street	527-2	Add detectable warning pads at the NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing high emphasis crosswalk on the east leg	175	\$7.00	SF	\$1,225.00
	711-11-123, 711-11-125	Add ladder crosswalk on the east leg	35	\$14.45	LF	\$505.75
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing northbound with a fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$500.00	EA	\$500.00
NW 5th Avenue						
	Maintenance	Trim landscaping so that trees do not block flashes				
NW 36 Street	711-17	Remove existing standard crosswalks at east and west legs	240	\$7.00	SF	\$1,680.00
	711-11-123, 711-11-125	Add ladder crosswalks at east and west legs	120	\$14.45	LF	\$1,734.00
	653-191	Install countdown signal heads facing north and south (4 signal heads)	4	\$714.90	AS	\$2,859.60
	700-20-11	Install fluorescent green school crossing signs facing EB and WB traffic (4 signs)	4	\$350.00	AS	\$1,400.00
NW 35th Street	110-4-10B	Remove concrete at NE, NW, and SW corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete at NE, NW, and SW corners	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at NE, NW, and SW corners (3 pads) (embedded)	30	\$39.70	SF	\$1,191.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the east and west legs	80	\$14.45	LF	\$1,156.00
NW 34th Street	110-4-10B	Remove concrete at all corners of the intersection	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners of the intersection	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the east and west legs	70	\$14.45	LF	\$1,011.50
NW 33rd Street	110-4-10B	Remove concrete at all corners of the intersection	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners of the intersection	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk on the east and west legs	70	\$14.45	LF	\$1,011.50
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing southbound with a fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$500.00	EA	\$500.00
NW 32nd Street	711-12-125, 711-11-161	Refurbish "SCHOOL" pavement markings	2	\$316.88	EA	\$633.76
	110-4-10B	Remove concrete at all corners of the intersection	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners of the intersection	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove existing high emphasis crosswalks on the south, east and west legs	675	\$7.00	SF	\$4,725.00
	711-11-123, 711-11-125	Add ladder crosswalks on the south, east and west legs to ladder type	135	\$14.45	LF	\$1,950.75
	700-48-18	Replace existing school crossing sign with fluorescent green sign in SB direction	2	\$410.00	EA	\$820.00
	700-20-11	Install a fluorescent green school crossing sign in NB direction	1	\$350.00	AS	\$350.00
	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NW 31st Street	711-17	Remove existing high emphasis crosswalks on the north leg	375	\$7.00	SF	\$2,625.00
	711-11-123, 711-11-125	Add ladder crosswalks on the north leg - Shift existing crosswalk across NW 5th Avenue north to avoid conflict with driveway connection (requires median modification).	75	\$14.45	LF	\$1,083.75
	110-4-10B	Remove concrete at NW and NE corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete at NW and NE corners - Provide a pedestrian ramp on the west side	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at NW and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder crosswalk on the east leg	30	\$14.45	LF	\$433.50
	700-48-60 B, 700-48-18	Replace existing school crossing signs facing NB and SB with fluorescent green signs	4	\$455.00	EA	\$1,820.00
NW 30th Street	110-4-10B	Remove concrete at SE corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at SE corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pad at SE corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing high emphasis crosswalk on the east leg	175	\$7.00	SF	\$1,225.00
	711-11-123, 711-11-125	Add ladder crosswalks on the east and west legs	70	\$14.45	LF	\$1,011.50
North of NW 28th Street	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
South of NW 28th Street	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing northbound with a fluorescent green school speed limit ahead sign (\$4-5) per MUTCD (2 signs; may require relocation of signs to improve visibility)	1	\$500.00	EA	\$500.00
NW 3rd Avenue						
NW 43rd Street	110-4-10B	Remove concrete at all corners of the intersection	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners of the intersection	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at the east and west legs	65	\$14.45	LF	\$939.25
NW 42nd Street	110-4-10B	Remove concrete at all corners of the intersection	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners of the intersection	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at the east and west legs	60	\$14.45	LF	\$867.00
NW 41st Street	110-4-10B	Remove concrete at all corners of the intersection	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners of the intersection	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$14.45	LF	\$578.00
	711-11-123, 711-11-125	Add ladder type crosswalks at the east and west legs	70	\$14.45	LF	\$1,011.50
NW 40th Street	110-4-10B	Remove concrete at all corners of the intersection	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners of the intersection	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	80	\$14.45	LF	\$1,156.00
NW 39th Street	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	70	\$14.45	LF	\$1,011.50
NW 37th Street	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	50	\$14.45	LF	\$722.50
NW 36th Street	711-17	Remove existing standard crosswalk on the north leg	90	\$7.00	SF	\$630.00
	711-11-123, 711-11-125	Add ladder crosswalk on the north leg	45	\$14.45	LF	\$650.25
NW 2nd Avenue						
NW 34th Street	711-17	Remove existing standard crosswalk at the east and west legs	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	55	\$14.45	LF	\$794.75
NW 33rd Street	711-17	Remove existing standard crosswalk at the east and west legs	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	50	\$14.45	LF	\$722.50
South of NW 33rd Street	700-48-18	Add 'speed zone ahead' sign (\$4-5) per MUTCD to existing school crossing sign	1	\$410.00	EA	\$410.00
NW 32nd Street	711-17	Remove existing standard crosswalk at the east and west legs	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the east and west legs	50	\$14.45	LF	\$722.50
South of NW 32nd Street (signalized crossing)	700-48-60 , 700-82A	Replace existing overhead school crossing signs with fluorescent green signs (2 signs)	2	\$500.00	EA	\$1,000.00
	700-20-11	Install no parking signs to prohibit parking near crosswalk (4 signs)	4	\$350.00	AS	\$1,400.00
	700-48-18	Install pedestrian signal actuation sign panels (2 panels)	2	\$410.00	EA	\$820.00
NW 34th Street						
NW 1st Avenue	711-17	Remove existing standard crosswalk at the north and south legs	120	\$7.00	SF	\$840.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the north and south legs	60	\$14.45	LF	\$867.00
N Miami Avenue	711-17	Remove existing standard crosswalk at the north and south legs	260	\$7.00	SF	\$1,820.00
	711-11-123, 711-11-125	Add ladder type crosswalk at the north and south legs	130	\$14.45	LF	\$1,878.50
NW 30th Street						
		Consider implementing traffic calming measures: Add speed bumps or school flashers				\$0.00
West of NW 5th Avenue	711-12-125, 711-11-161	Refurbish "SCHOOL" pavement markings	1	\$316.88	EA	\$316.88
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing eastbound with a fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$500.00	EA	\$500.00
NW 3rd Avenue	110-4-10B	Remove concrete at NE and NW corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at NE and NW corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at the NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 2nd Avenue	700-48-60 B, 700-48-18	Replace school speed limit sign just north of intersection	1	\$455.00	EA	\$455.00

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 29th Street						
N Miami Avenue	110-4-10B	Remove concrete at the NW, SW, and SE corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at the NW, SW, and SE corners - Reconstruct ramp at NW corner	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at the NW, SW, and SE corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
NW 1st Avenue	711-11-123, 711-11-125	Add ladder type crosswalk at the north leg	40	\$14.45	LF	\$578.00
NW 2nd Avenue	711-17	Remove existing standard crosswalk at all legs	440	\$7.00	SF	\$3,080.00
	711-11-123, 711-11-125	Add ladder type crosswalk at all legs	220	\$14.45	LF	\$3,179.00
	653-191	Add pedestrian countdown signal heads to the east, west, and north legs	6	\$714.90	AS	\$4,289.40
		Note: Coordinate with utility agency to relocate the utility pole on the NW corner that blocks access to the crosswalks				\$0.00
West of NW 2nd Avenue	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NW 5th Avenue	653-191	Add countdown pedestrian signal heads at the east and north legs (4 signal heads)	4	\$714.90	AS	\$2,859.60
	690-20, 653-191	Replace existing pedestrian signal heads with countdown signal heads on the west and south legs	4	\$784.90	EA	\$3,139.60
	110-4-10B	Remove concrete at all corners	22	\$15.00	SY	\$333.33
	522-1 (1)	Add concrete at all corners - Add a pedestrian ramp on the SE corner	22	\$35.00	SY	\$777.78
	527-2	Add detectable warning pads at all corners (7 pads) (embedded)	70	\$39.70	SF	\$2,779.00
West of NW 5th Avenue	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$123,498.26
Maintenance of Traffic (10%)						\$12,349.83
Mobilization (10%)						\$12,349.83
Total Construction Cost						\$148,197.91
PE (15%)						\$22,229.69
CEI (15%)						\$22,229.69
Total Funding Request						\$192,657.28
Contingency (15%)						\$22,229.69
Total Cost						\$214,886.97

Gratigny Elementary

Gratigny Elementary School - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
North Miami Avenue						
NW 128th Street	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	80	\$14.45	LF	\$1,156.00
	110-4-10B	Remove concrete at NW corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete ramps/sidewalk connector at west leg	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at west leg (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NE 127th Terrace	110-4-10B	Remove concrete at NE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east leg	30	\$14.45	LF	\$433.50
NW 125th Street	711-17	Remove existing standard crosswalk at east and west legs	240	\$7.00	SF	\$1,680.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	120	\$14.45	LF	\$1,734.00
	110-4-10B	Remove concrete at all corners	22	\$15.00	SY	\$333.33
	522-1 (1)	Add concrete at all corners	22	\$35.00	SY	\$777.78
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	665-11	Add pedestrian countdown signal heads at east and west legs	4	\$300.00	EA	\$1,200.00
	700-20-11	Add fluorescent green school crossing sign to east and west legs (4 signs)	4	\$350.00	AS	\$1,400.00
NE 124th Terrace	711-17	Remove existing standard crosswalk at east leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east leg	35	\$14.45	LF	\$505.75
NE 123rd Terrace	711-17	Remove existing standard crosswalk at east and west legs	120	\$7.00	SF	\$840.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	60	\$14.45	LF	\$867.00
NW 121st Street (west leg)	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at west leg	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	50	\$14.45	LF	\$722.50
	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NW 121st Street (east leg)	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
Pedestrian Crossing Signal	110-4-10B	Remove concrete at east and west sides	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at east and west sides	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at east and west sides (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	700-48-60 B, 700-48-18	Replace school crossing sign with fluorescent green sign in both directions	4	\$455.00	EA	\$1,820.00
	700-48-18	Install pedestrian signal actuation sign panels (2 panels)	2	\$410.00	EA	\$820.00
		Note: No sidewalk on the west side between N 119th Street and pedestrian signal.				\$0.00
N 119th Street	665-11	Add pedestrian countdown signal heads at the north and south legs	4	\$300.00	EA	\$1,200.00
	110-4-10B	Remove concrete at all corners	14	\$15.00	SY	\$208.33
	522-1 (1)	Add concrete at all corners	14	\$35.00	SY	\$486.11
	527-2	Add detectable warning pads at all corners (5 pads) (embedded)	50	\$39.70	SF	\$1,985.00
	711-17	Remove ladder type crosswalks at all legs	1250	\$7.00	SF	\$8,750.00
	711-11-123, 711-11-125	Install ladder type crosswalks at all legs	250	\$14.45	LF	\$3,612.50
	700-48-60 B, 700-48-18	Replace school crossing sign with fluorescent green sign at all legs	8	\$455.00	EA	\$3,640.00
North of N 118th Street	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NW 119th Street						
Between N Miami Avenue and NW 1st Avenue	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NW 1st Avenue	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at north leg	60	\$7.00	SF	\$420.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north leg	30	\$14.45	LF	\$433.50
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing westbound with a fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$500.00	EA	\$500.00
NW 2nd Avenue	711-17	Remove existing standard crosswalk at north leg	120	\$7.00	SF	\$840.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north leg	60	\$14.45	LF	\$867.00
	700-20-11	Add fluorescent green school crossing sign at all legs	4	\$350.00	AS	\$1,400.00
East of N Miami Avenue	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NW 5th Avenue						
NW 134th Street	522-1 (1)	Add concrete sidewalk and ramps at all corners	22	\$35.00	SY	\$777.78
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
NW 133rd Street	522-1 (1)	Add concrete sidewalk and ramps at all corners	22	\$35.00	SY	\$777.78
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
NW 132nd Street	522-1 (1)	Add concrete sidewalk and ramps at all corners	31	\$35.00	SY	\$1,088.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
NW 131st Street	110-4-10B	Remove concrete at all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
NW 130th Street	110-4-10B	Remove concrete at all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	90	\$14.45	LF	\$1,300.50
NW 129th Street	110-4-10B	Remove concrete at all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	85	\$14.45	LF	\$1,228.25
NW 128th Street	110-4-10B	Remove concrete at all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	85	\$14.45	LF	\$1,228.25
NW 127th Street	110-4-10B	Remove concrete at NE, SW, and NW corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete at NE, SW, and NW corners	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at NE, SW, and NW corners (3 pads) (embedded)	30	\$39.70	SF	\$1,191.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	90	\$14.45	LF	\$1,300.50
NW 126th Street	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	80	\$14.45	LF	\$1,156.00
NW 125th Street	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at east and west sides (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at north leg	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north leg	50	\$14.45	LF	\$722.50
NW 125th Street						
NW 4th Avenue	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at east and west sides (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at north leg	140	\$7.00	SF	\$980.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north leg	70	\$14.45	LF	\$1,011.50
NW 2nd Avenue	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at east and west sides (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at north leg	120	\$7.00	SF	\$840.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north leg	60	\$14.45	LF	\$867.00
	653-191	Add countdown pedestrian signal heads at north and south legs	4	\$714.90	AS	\$2,859.60
	700-20-11	Add fluorescent green school crossing sign at north leg	2	\$350.00	AS	\$700.00
NW 1st Avenue	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at east and west sides (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at north leg	90	\$7.00	SF	\$630.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north leg	45	\$14.45	LF	\$650.25

Gratigny Elementary School - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NE 2nd Avenue						
NE 125th Street	110-4-10B	Remove concrete at all corners	19	\$15.00	SY	\$291.67
	522-1 (1)	Add concrete at all corners	19	\$35.00	SY	\$680.56
	527-2	Add detectable warning pads at all corners (7 pads) (embedded)	70	\$39.70	SF	\$2,779.00
	711-17	Remove existing standard crosswalk at all legs	360	\$7.00	SF	\$2,520.00
	711-11-123, 711-11-125	Add ladder type crosswalk at all legs	180	\$14.45	LF	\$2,601.00
NE 124th Street	653-191	Add countdown pedestrian signal heads at west, north, and south legs	6	\$714.90	AS	\$4,289.40
	522-1 (1)	Add 21 feet of pavement for ramp/detectable warning pad/connection to sidewalk at NW corner	12	\$35.00	SY	\$408.33
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	70	\$14.45	LF	\$1,011.50
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NE 123rd Street	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	70	\$14.45	LF	\$1,011.50
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NE 122nd Street	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	50	\$14.45	LF	\$722.50
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NE 121st Terrace	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	60	\$14.45	LF	\$867.00
	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
NE 121st Street	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at west leg	50	\$7.00	SF	\$350.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	25	\$14.45	LF	\$361.25
	522-1 (1)	Add concrete connection from pedestrian crosswalk to sidewalk - north leg	11	\$35.00	SY	\$388.89
	700-48-60 B, 700-48-18	Replace school crossing sign with fluorescent green sign	4	\$455.00	EA	\$1,820.00
	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
NE 120th Street	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at west leg	60	\$7.00	SF	\$420.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	30	\$14.45	LF	\$433.50
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NE 119th Street	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	700-48-60 B, 700-48-18	Add fluorescent green school crossing sign at all legs	8	\$455.00	EA	\$3,640.00
NE 121st Street						
East of NE 1st Avenue	700-48-60 B, 700-48-18	Replace 'speed zone ahead' sign facing westbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NE 1st Avenue	711-17	Remove existing standard crosswalk at south leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Add ladder type crosswalk at south leg	35	\$14.45	LF	\$505.75
	110-4-10B	Remove concrete at SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at SE and SW corners	6	\$35.00	SY	\$194.44
West of NE 1st Avenue	527-2	Add detectable warning pads at SW and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	700-48-60 B, 700-48-18	Replace existing school speed limit assembly sign with S4-3P, R2-1, S4-1P, and S4-6P assembly per current MUTCD	4	\$455.00	EA	\$1,820.00
	711-17	Remove existing standard crosswalk at north leg	80	\$7.00	SF	\$560.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north leg	40	\$14.45	LF	\$578.00
NE Miami Place	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and NE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	700-48-60 B, 700-48-18	Replace school crossing sign with fluorescent green sign just east of intersection	2	\$455.00	EA	\$910.00
	522-1 (1)	Add sidewalk connection at NW corner to west leg crosswalk	11	\$35.00	SY	\$388.89
NE Miami Court	110-4-10B	Remove concrete at NW and NE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and NE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at SW, NW, and NE corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	700-48-60 B, 700-48-18	Replace school crossing sign with fluorescent green sign at NW and SW corners	4	\$455.00	EA	\$1,820.00
West Dixie Highway						
NE 124th Street	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at NE leg	120	\$7.00	SF	\$840.00
	711-11-123, 711-11-125	Add ladder type crosswalk at NE leg	60	\$14.45	LF	\$867.00
NE 123rd Street	711-17	Remove existing standard crosswalk at east and west legs	330	\$7.00	SF	\$2,310.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	165	\$14.45	LF	\$2,384.25
	653-191	Add pedestrian countdown feature at east leg	4	\$714.90	AS	\$2,859.60
	653-191	Add pedestrian countdown signal head at west leg	2	\$714.90	AS	\$1,429.80
	700-20-11	Add fluorescent green school crossing signs at all legs	8	\$350.00	AS	\$2,800.00
NE Griffing Boulevard	711-17	Remove existing standard crosswalk at all legs	380	\$7.00	SF	\$2,660.00
	711-11-123, 711-11-125	Add ladder type crosswalk at all legs	190	\$14.45	LF	\$2,745.50
	700-20-11	Add fluorescent green school crossing signs at all legs	6	\$350.00	AS	\$2,100.00
West Biscayne Canal Road	711-17	Remove existing standard crosswalk at SE leg	120	\$7.00	SF	\$840.00
	711-11-123, 711-11-125	Add ladder type crosswalk at SE leg	60	\$14.45	LF	\$867.00
NE 119th Terrace	711-17	Remove existing standard crosswalk at SE leg	130	\$7.00	SF	\$910.00
	711-11-123, 711-11-125	Add ladder type crosswalk at SE leg	65	\$14.45	LF	\$939.25
NE 119th Street/NE 118th Terrace	711-17	Remove existing standard crosswalk at all legs	430	\$7.00	SF	\$3,010.00
	711-11-123, 711-11-125	Add ladder type crosswalk at all legs	215	\$14.45	LF	\$3,106.75
	700-20-11	Add fluorescent green school crossing signs at all legs	6	\$350.00	AS	\$2,100.00
NE 2nd Avenue	711-17	Remove existing standard crosswalk at all legs	200	\$7.00	SF	\$1,400.00
	711-11-123, 711-11-125	Add ladder type crosswalk at all legs	100	\$14.45	LF	\$1,445.00
	653-191	Add pedestrian countdown feature at all legs	6	\$714.90	AS	\$4,289.40
	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at all legs (6 pads) (embedded)	60	\$39.70	SF	\$2,382.00
	700-20-11	Add fluorescent green school crossing signs at all legs	6	\$350.00	AS	\$2,100.00
NE 2nd Avenue						
NE 117th Street	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	35	\$14.45	LF	\$505.75
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	522-1 (1)	Add sidewalk extension at west side	106	\$35.00	SY	\$3,694.44
NE 116th Street	711-17	Remove existing standard crosswalk at east and west legs	160	\$7.00	SF	\$1,120.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	80	\$14.45	LF	\$1,156.00
	110-4-10B	Remove concrete at west leg	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at west leg	6	\$35.00	SY	\$194.44
NE 115th Street	527-2	Add detectable warning pads at west leg (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at west leg	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	55	\$14.45	LF	\$794.75
	110-4-10B	Remove concrete at NW corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at NW corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at NW corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	653-191	Add pedestrian countdown feature at west leg	2	\$714.90	AS	\$1,429.80
NE 114th Street	700-20-11	Add fluorescent green school crossing sign at all legs	6	\$350.00	AS	\$2,100.00
	110-4-10B	Remove concrete at SE corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at SE corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at SW corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at east leg	90	\$7.00	SF	\$630.00
NE 112th Street	711-11-123, 711-11-125	Add ladder type crosswalk at east leg	45	\$14.45	LF	\$650.25
	711-17	Remove existing standard crosswalk at east leg	60	\$7.00	SF	\$420.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east leg	30	\$14.45	LF	\$433.50
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$220,396.88
Maintenance of Traffic (10%)						\$22,039.69
Mobilization (10%)						\$22,039.69
Total Construction Cost						\$264,476.25
PE (15%)						\$39,671.44
CEI (15%)						\$39,671.44
Total Funding Request						\$343,819.13
Contingency (15%)						\$39,671.44
Total Cost						\$383,490.57

Hibiscus Elementary

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 1st Place between NW 195th Street and NW 191st Street (safe route on east side only)						
NW 195th Street	522-1 (1)	Add pedestrian access ramps on the NE and SE corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the east leg	40	\$14.45	LF	\$578.00
	700-20-11	Add fluorescent green school crossing signs for the crossing on the east leg	2	\$350.00	AS	\$700.00
NW 193rd Terrace	522-1 (1)	Add pedestrian access ramps on the NE and SE corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the east leg	35	\$14.45	LF	\$505.75
NW 193rd Street	522-1 (1)	Add pedestrian access ramps on the NE and SE corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the east leg	35	\$14.45	LF	\$505.75
	700-20-11	Add fluorescent green school crossing signs for the crossing on the east leg	2	\$350.00	AS	\$700.00
NW 192nd Street	522-1 (1)	Add pedestrian access ramps on the NE and SE corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add a crosswalk on the east leg	40	\$14.45	LF	\$578.00
NW 191st Street	711-11-123, 711-11-125	Add a crosswalk on the north leg	40	\$14.45	LF	\$578.00
North Miami Avenue between NE 184th Terrace and NE 195th Street						
North of NE 184th Terrace	700-48-60 B, 700-48-18	Replace school crossing sign facing northbound traffic with fluorescent green sign	2	\$455.00	EA	\$910.00
North of NE 185th Terrace	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
	Maintenance	Trim overgrown tree that blocks view of flasher (maintenance)				
NE 187th Street	711-17	NOTE: Consider removing the crosswalk across N Miami Avenue (use signalized crosswalk at NE 188 Street instead – coordinate with MDC and school)	245	\$7.00	SF	\$1,715.00
NE 188th Street	700-48-60 B, 700-48-18	Replace school crossing signs on all four corners with fluorescent green signs	8	\$455.00	EA	\$3,640.00
	690-20	Remove pedestrian push buttons (4 push buttons) and pedestrian signal actuation information signs	4	\$70.00	EA	\$280.00
	665-11	Install pedestrian push buttons (4 push buttons) and pedestrian signal actuation information signs	4	\$300.00	EA	\$1,200.00
	Maintenance	Coordinate with M-D TED to increase "Don't Walk" time to cross NE 188 Street from 5 seconds to 8 seconds				
North of NE 188th Street	Maintenance	Fix the leaning "End School Zone" sign facing northbound traffic (maintenance)				
	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NE 192nd Street	711-11-123, 711-11-125	Add a crosswalk on the west leg	30	\$14.45	LF	\$433.50
NE 193rd Street	711-11-123, 711-11-125	Add a crosswalk on the west leg	30	\$14.45	LF	\$433.50
NE 193rd Terrace	711-11-123, 711-11-125	Add a crosswalk on the west leg	30	\$14.45	LF	\$433.50
NE 191st Street between NE 2nd Avenue and N Miami Avenue						
NE 2nd Avenue	711-17	Remove existing standard crosswalks on the north and south legs	420	\$7.00	SF	\$2,940.00
	711-11-123, 711-11-125	Install ladder type crosswalks on the north and south legs	210	\$14.45	LF	\$3,034.50
NE 1st Place	711-11-123, 711-11-125	Add a crosswalk on the north leg	40	\$14.45	LF	\$578.00
NE 1st Avenue	711-11-123, 711-11-125	Add crosswalks on the north and south legs	80	\$14.45	LF	\$1,156.00
NE Miami Court	711-11-123, 711-11-125	Add a crosswalk on the north leg	45	\$14.45	LF	\$650.25
NE 188th Street between NE 1st Place and NW 1st Avenue						
NE 1st Place	711-11-123, 711-11-125	Add a crosswalk on the north leg	40	\$14.45	LF	\$578.00
NE 1st Court	711-11-123, 711-11-125	Add a crosswalk on the north leg	40	\$14.45	LF	\$578.00
NE 1st Avenue	711-11-123, 711-11-125	Add crosswalks on the south leg	40	\$14.45	LF	\$578.00
NE Miami Place	711-11-123, 711-11-125	Add a crosswalk on the north leg	40	\$14.45	LF	\$578.00
West of NE Miami Place	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign with fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$500.00	EA	\$500.00
NE Miami Court	711-11-123, 711-11-125	Add a crosswalk on the north leg	35	\$14.45	LF	\$505.75
At school drop off loop	110-4-108	Remove concrete on entry and exit points	22	\$15.00	SY	\$333.33
	522-1 (1)	Add concrete on entry and exit points	22	\$35.00	SY	\$777.78
	527-2	Add detectable warning pads on entry and exit point (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Install crosswalks across entry and exit points (2 crosswalks)	100	\$14.45	LF	\$1,445.00
	700-20-40	Relocate "DO NOT ENTER" sign to face westbound traffic at the west end of the loop	1	\$216.71	AS	\$216.71
NW 1st Avenue	711-11-123, 711-11-125	Add a ladder type crosswalk on the north leg	35	\$14.45	LF	\$505.75
	700-48-60 B, 700-48-18	Replace substandard Stop signs on the NW and SE corners facing east-west traffic	2	\$455.00	EA	\$910.00
	700-20-11	Install "One Way" signs facing eastbound and westbound traffic per MUTCD	2	\$350.00	AS	\$700.00
	711-11-123	Add Stop pavement markings on the eastbound and westbound approaches	20	\$3.10	LF	\$62.00
NW 1st Avenue between NW 184th Terrace and NW 190th Street						
NW 190th Street	711-11-123, 711-11-125	Add a crosswalk on the east leg	40	\$14.45	LF	\$578.00
	700-20-11	Add fluorescent green school crossing signs for the crossing on the east leg	2	\$350.00	AS	\$700.00
NW 189th Terrace	711-11-123, 711-11-125	Add a crosswalk on the east leg	40	\$14.45	LF	\$578.00
	700-20-11	Add fluorescent green school crossing signs for the crossing on the east leg	2	\$350.00	AS	\$700.00
NW 189th Street	711-11-123, 711-11-125	Add a crosswalk on the east leg	40	\$14.45	LF	\$578.00
	700-20-11	Add fluorescent green school crossing signs for the crossing on the east leg	2	\$350.00	AS	\$700.00
South of NW 189th Street	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign with fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$500.00	EA	\$500.00
North of NW 184th Terrace	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign with fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$500.00	EA	\$500.00
		NOTE: Reevaluate the one-way operation of NW 1 Avenue between NW 186 Terrace and NW 188 Terrace. As a short term improvement, consider installing (and evaluate existing placement of) "One Way" signs per MUTCD.				
NE 187th Street between NW 2nd Avenue and NW 1st Avenue						
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign with fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$500.00	EA	\$500.00
	Maintenance	Trim overgrown tree on the SW corner that blocks view of stop sign (maintenance)				
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$60,121.63
Maintenance of Traffic (10%)						\$6,012.16
Mobilization (10%)						\$6,012.16
Total Construction Cost						\$72,145.95
PE (15%)						\$10,821.89
CEI (15%)						\$10,821.89
Total Funding Request						\$93,789.74
Contingency (15%)						\$10,821.89
Total Cost						\$104,611.63

Lakeview Elementary

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 111th Street						
NW 8th Avenue	110-4-10B	Remove concrete at SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalks at south leg	25	\$14.45	LF	\$361.25
NW 10th Avenue (traffic circle)	711-17	Remove existing ladder type crosswalks at west and south legs	300	\$7.00	SF	\$2,100.00
	711-11-123, 711-11-125	Install ladder type crosswalks west and south legs	60	\$14.45	LF	\$867.00
	110-4-10B	Remove concrete at crosswalk ramps	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at crosswalk ramps	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads on the north and west legs (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	700-20-11	Add fluorescent green school crossing signs facing departure traffic from traffic circle at existing crosswalks (2 signs)	2	\$350.00	AS	\$700.00
NW 11th Avenue	700-48-60 B, 700-48-18	Replace pedestrian crossing signs on north and west legs with fluorescent green school crossing signs (x2)	4	\$455.00	EA	\$1,820.00
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
NW 114th Street						
NW 14th Avenue	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north and south legs	55	\$14.45	LF	\$794.75
NW 115th Street						
NW 8th Avenue	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at north and south legs	65	\$14.45	LF	\$939.25
NW 10th Avenue	700-20-11	Add fluorescent green school crossing signs for the crossing on the north and south legs (2 signs)	2	\$350.00	AS	\$700.00
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at north and south legs	75	\$14.45	LF	\$1,083.75
NW 11th Avenue	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at north and south legs	60	\$14.45	LF	\$867.00
NW 12th Avenue	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove existing high emphasis and standard crosswalks at west and east legs	200	\$7.00	SF	\$1,400.00
	711-11-123, 711-11-125	Install ladder type crosswalks west and east legs	55	\$14.45	LF	\$794.75
NW 13th Avenue	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove existing high emphasis crosswalks	825	\$7.00	SF	\$5,775.00
	711-11-123, 711-11-125	Install ladder type crosswalks	165	\$14.45	LF	\$2,384.25
NW 10th Avenue						
NW 119th Street	711-11-123, 711-11-125	Add ladder type crosswalk at west leg, north leg, and south leg	255	\$14.45	LF	\$3,684.75
	653-191	Add countdown pedestrian signal heads at west leg	2	\$714.90	AS	\$1,429.80
NW 118th Street	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	30	\$14.45	LF	\$433.50
	110-4-10B	Remove concrete at NW and SW corner	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corner	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corner (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 117th Street	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	36	\$14.45	LF	\$520.20
	110-4-10B	Remove concrete at NW and SW corner	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corner	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corner (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 116th Terrace	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	31	\$14.45	LF	\$447.95
	110-4-10B	Remove concrete at NW and SW corner	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corner	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corner (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 116th Street	711-11-123, 711-11-125	Add ladder type crosswalk at west leg	32	\$14.45	LF	\$462.40
	110-4-10B	Remove concrete at NW and SW corner	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corner	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corner (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 12th Avenue						
NW 106th Street	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east leg	39	\$14.45	LF	\$563.55
NW 107th Street	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at east leg	46	\$7.00	SF	\$322.00
	711-11-123, 711-11-125	Install ladder type crosswalks at east leg	23	\$14.45	LF	\$332.35
NW 108th Street	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at east leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	35	\$14.45	LF	\$505.75
NW 108th Terrace	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at east leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	35	\$14.45	LF	\$505.75
NW 109th Street	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at east leg	62	\$7.00	SF	\$434.00
NW 110th Street	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	31	\$14.45	LF	\$447.95
	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at east leg	72	\$7.00	SF	\$504.00
NW 111th Street	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	36	\$14.45	LF	\$520.20
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove existing standard crosswalk at all legs	400	\$7.00	SF	\$2,800.00
NW 112th Street	711-11-123, 711-11-125	Install ladder type crosswalk at all legs	200	\$14.45	LF	\$2,890.00
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east and west legs	85	\$14.45	LF	\$1,228.25

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 112th Terrace	110-4-10B	Remove concrete at NE, NW, and SW corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete at NE, NW, and SW corners	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at NE, NW, and SW corners (3 pads) (embedded)	30	\$39.70	SF	\$1,191.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	60	\$14.45	LF	\$867.00
NW 113th Terrace	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	66	\$14.45	LF	\$953.70
NW 114th Street	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	66	\$14.45	LF	\$953.70
Pedestrian Signal just south of NW 115th Street	110-4-10B	Remove concrete at east and west sides	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at east and west sides	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at east and west sides (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 116th Street	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at east leg	48	\$7.00	SF	\$336.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	24	\$14.45	LF	\$346.80
NW 116th Terrace	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	69	\$14.45	LF	\$997.05
NW 117th Street	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	67	\$14.45	LF	\$968.15
NW 118th Street	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at east and west legs	89	\$14.45	LF	\$1,286.05
NW 119th Street	711-17	Remove existing standard crosswalk at north and south legs	260	\$7.00	SF	\$1,820.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north and south legs	130	\$14.45	LF	\$1,878.50
NW 120th Street (traffic circle)	700-20-11	Install fluorescent green school crossing signs facing departure traffic from traffic circle (4 signs)	4	\$350.00	AS	\$1,400.00
	700-48-60 B, 700-48-18	Replace pedestrian crossing signs with fluorescent green school crossing signs (x4)	8	\$455.00	EA	\$3,640.00
NW 121st Street	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	90	\$14.45	LF	\$1,300.50
NW 13th Avenue						
NW 112th Street	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at west leg	130	\$7.00	SF	\$910.00
	711-11-123, 711-11-125	Install ladder type crosswalk at west leg	65	\$14.45	LF	\$939.25
NW 112th Terace	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at west leg	130	\$7.00	SF	\$910.00
	711-11-123, 711-11-125	Install ladder type crosswalk at west leg	65	\$14.45	LF	\$939.25
NW 113th Terace	522-1 (1)	Add a pedestrian ramp at NW corner	3	\$35.00	SY	\$97.22
	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at west leg	130	\$7.00	SF	\$910.00
NW 114th Street	711-11-123, 711-11-125	Install ladder type crosswalk at west leg	65	\$14.45	LF	\$939.25
	110-4-10B	Remove concrete at NW, NE and SW corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete at NW, NE and SW corners	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	30	\$39.70	SF	\$1,191.00
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NW 116th Street	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	90	\$14.45	LF	\$1,300.50
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NW 116th Terrace	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	90	\$14.45	LF	\$1,300.50
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NW 117th Street	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	90	\$14.45	LF	\$1,300.50
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
NW 118th Street	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	90	\$14.45	LF	\$1,300.50
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$147,801.21
Maintenance of Traffic (10%)						\$14,780.12
Mobilization (10%)						\$14,780.12
Total Construction Cost						\$177,361.45
PE (15%)						\$26,604.22
CEI (15%)						\$26,604.22
Total Funding Request						\$230,569.89
Contingency (15%)						\$26,604.22
Total Cost						\$257,174.11

Lorah Park Elementary

Lorah Park Elementary School - Opinion of Probable Cost

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 32nd Avenue						
NW 60th Street	711-17	Remove existing standard crosswalk at east leg	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	50	\$14.45	LF	\$722.50
NW 59th Street	711-17	Remove existing standard crosswalk at east leg	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	55	\$14.45	LF	\$794.75
NW 58th Street	711-17	Remove existing standard crosswalk at east leg	130	\$7.00	SF	\$910.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	65	\$14.45	LF	\$939.25
NW 57th Street	711-17	Remove existing standard crosswalk at east leg	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	55	\$14.45	LF	\$794.75
NW 56th Street	711-17	Remove existing standard crosswalk at east leg	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	50	\$14.45	LF	\$722.50
NW 55th Street	711-17	Remove existing standard crosswalk at east leg	120	\$7.00	SF	\$840.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	60	\$14.45	LF	\$867.00
South of NW 54th Street	700-20-11	Install a fluorescent green school speed limit ahead sign (S4-5) facing southbound traffic per MUTCD	1	\$350.00	AS	\$350.00
NW 53rd Street	711-17	Remove existing standard crosswalk at east and west legs	210	\$7.00	SF	\$1,470.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east and west legs	105	\$14.45	LF	\$1,517.25
	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NW 52nd Street (west leg)	711-17	Remove existing standard crosswalk at west leg	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Install ladder type crosswalk at west leg	55	\$14.45	LF	\$794.75
	700-20-11	Install a pedestrian crossing ahead sign north of NW 52nd Street facing southbound traffic	1	\$350.00	AS	\$350.00
NW 52nd Street (east leg)	700-48-60 B, 700-48-18	Replace school crossing signs with fluorescent green school crossing signs	8	\$455.00	EA	\$3,640.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
	Maintenance	Note: Trim overgrown landscaping on the west side that blocks pedestrian signal.				
NW 51st Terrace	711-17	Remove existing standard crosswalk at west leg	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Install ladder type crosswalk at west leg	55	\$14.45	LF	\$794.75
	700-20-11	Install a pedestrian crossing ahead sign south of NW 52nd Street facing northbound traffic	1	\$350.00	AS	\$350.00
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing northbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NW 51st Street	711-17	Remove existing standard crosswalk at west leg	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Install ladder type crosswalk at west leg	55	\$14.45	LF	\$794.75
NW 50th Street	711-17	Remove existing standard crosswalk at west leg	110	\$7.00	SF	\$770.00
	711-11-123, 711-11-125	Install ladder type crosswalk at west leg	55	\$14.45	LF	\$794.75
	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
NW 49th Street	711-17	Remove existing standard crosswalk at east and west legs	220	\$7.00	SF	\$1,540.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east and west legs	110	\$14.45	LF	\$1,589.50
NW 31st Avenue						
NW 53rd Lane	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 53rd Street	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 52nd Street	711-17	Remove all existing crosswalks	700	\$7.00	SF	\$4,900.00
	711-11-123, 711-11-125	Install ladder type crosswalks	140	\$14.45	LF	\$2,023.00
	110-4-10B	Remove concrete at NW, SW, and NE corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete at NW, SW, and NE corners	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at NW, SW, and NE corners (3 pads) (embedded)	30	\$39.70	SF	\$1,191.00
	700-48-60 B, 700-48-18	Replace existing school crossing signs with fluorescent green signs facing east/west traffic	4	\$455.00	EA	\$1,820.00
NW 51st Terrace	711-17	Remove existing standard crosswalk at east leg	70	\$7.00	SF	\$490.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	35	\$14.45	LF	\$505.75
	522-1 (1)	Add a sidewalk connection ramp at NE corner - Add pedestrian ramp at NW corner	3	\$35.00	SY	\$97.22
	110-4-10B	Remove concrete at NW corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add pedestrian ramp at NW corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 51st Street	700-48-60 B, 700-48-18	Replace existing school crossing signs with fluorescent green signs facing north/south traffic	4	\$455.00	EA	\$1,820.00
	711-17	Remove existing standard crosswalk at east leg	80	\$7.00	SF	\$560.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east leg	40	\$14.45	LF	\$578.00
	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 50th Street	110-4-10B	Remove concrete at all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove existing high emphasis crosswalk at the north, south and west legs	300	\$7.00	SF	\$2,100.00
	711-11-123, 711-11-125	Install ladder type crosswalk at the north, south and west legs	105	\$14.45	LF	\$1,517.25
NW 30th Avenue						
NW 60th Street	110-4-10B	Remove concrete at all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	45	\$14.45	LF	\$650.25
NW 59th Street	110-4-10B	Remove concrete at all four corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all four corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all four corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	45	\$14.45	LF	\$650.25
North of NW 58th Street (near #5813)		Determine if the driveway constructed on the west side of NW 30th Avenue at house #5810 meets local code and ensure the sidewalk meets ADA, minimum width, and clearance requirements.				
NW 58th Street	110-4-10B	Remove concrete at NE, NW, and SW corners	8	\$15.00	SY	\$125.00
	522-1 (1)	Add concrete at NE, NW, and SW corners	8	\$35.00	SY	\$291.67
	527-2	Add detectable warning pads at NE, NW, and SW corners (3 pads) (embedded)	30	\$39.70	SF	\$1,191.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	45	\$14.45	LF	\$650.25
NW 57th Street	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	40	\$14.45	LF	\$578.00
NW 56th Street	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	40	\$14.45	LF	\$578.00
NW 55th Street	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at east and west legs	50	\$14.45	LF	\$722.50
NW 54th Street	711-17	Remove existing standard crosswalk at the north leg	140	\$7.00	SF	\$980.00
	711-11-123, 711-11-125	Install ladder type crosswalk at the north leg	70	\$14.45	LF	\$1,011.50
	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
NW 54th Street						
Pedestrian Crossing just east of NW 31st Avenue	653-191	Provide countdown pedestrian signal heads	2	\$714.90	AS	\$1,429.80
	700-48-60 B, 700-48-18	Replace pedestrian crossing signs with fluorescent green signs	4	\$455.00	EA	\$1,820.00
	110-4-10B	Remove concrete at east and west sides	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at east and west sides	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
	711-17	Remove existing high emphasis crosswalk	300	\$7.00	SF	\$2,100.00
	711-11-123, 711-11-125	Install ladder type crosswalk	60	\$14.45	LF	\$867.00
		Note: Evaluate the feasibility of relocating the signal mast arm pole within the sidewalk to provide minimum width required to meet ADA guidelines.				
NW 31st Avenue		Note: Coordinate with local agency code enforcement to prevent parking on the north side that blocks the sidewalk.				
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-17	Remove existing standard crosswalks at north and south legs	180	\$7.00	SF	\$1,260.00
	711-11-123, 711-11-125	Add ladder type crosswalk to north and south legs	90	\$14.45	LF	\$1,300.50
		Note: Coordinate with MDT to relocate/remove the bus bench on the NW corner to provide minimum sidewalk width required to meet ADA guidelines				

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
NW 32nd Avenue	711-17	Remove existing standard crosswalks at all legs	530	\$7.00	SF	\$3,710.00
	711-11-123, 711-11-125	Add ladder type crosswalks on all four legs	265	\$14.45	LF	\$3,829.25
	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
NW 52nd Street						
NW 30th Avenue	110-4-10B	Remove concrete at SE and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalks at south leg	50	\$14.45	LF	\$722.50
NW 30th Court	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalks at north leg	50	\$14.45	LF	\$722.50
		Note: May require reconstructing/reorienting the pedestrian ramp on the NE corner				
	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing westbound with a fluorescent green school speed limit ahead sign (S4-5) per MUTCD	1	\$500.00	EA	\$500.00
NW 30th Place	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalks at north leg	50	\$14.45	LF	\$722.50
		Note: Ensure the drainage inlet at NE corner meets ADA guidelines				
East of mid-block crossing	700-48-60 B, 700-48-18	Replace existing school speed limit signs per current MUTCD	2	\$455.00	EA	\$910.00
Mid-block crossing between NW 31 Avenue and NW 32 Avenue	522-1 (1)	Provide a pedestrian ramp/connection on the north side between the crosswalk and the sidewalk	4	\$35.00	SY	\$155.56
	110-4-10B	Remove concrete at south side	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at south side	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at north and south sides (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	700-48-60 B, 700-48-18	Replace existing school crossing sign facing eastbound traffic with a fluorescent green sign (1 sign)	1	\$455.00	EA	\$455.00
	700-20-11	Install a fluorescent green school crossing sign facing westbound traffic (1 sign)	1	\$350.00	AS	\$350.00
NW 50th Street						
NW 33rd Avenue	110-4-10B	Remove concrete at all corners	11	\$15.00	SY	\$166.67
	522-1 (1)	Add concrete at all corners	11	\$35.00	SY	\$388.89
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalks at north and south legs	75	\$14.45	LF	\$1,083.75
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$127,645.27
Maintenance of Traffic (10%)						\$12,764.53
Mobilization (10%)						\$12,764.53
Total Construction Cost						\$153,174.33
PE (15%)						\$22,976.15
CEI (15%)						\$22,976.15
Total Funding Request						\$199,126.62
Contingency (15%)						\$22,976.15
Total Cost						\$222,102.77

Sweetwater Elementary

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
West Flagler Street						
NW 112th Avenue	711-17	Remove existing standard crosswalks at north and south legs	256	\$7.00	SF	\$1,792.00
	711-11-123, 711-11-125	Install ladder type crosswalks at north and south legs	128	\$14.45	LF	\$1,849.60
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
	700-20-11	Install fluorescent green school crossing signs on the north and south approaches.	4	\$350.00	AS	\$1,400.00
SW 110th Avenue	711-17	Remove existing standard crosswalk at south leg	74	\$7.00	SF	\$518.00
	711-11-123, 711-11-125	Install ladder type crosswalk at south leg	37	\$14.45	LF	\$534.65
NW 109th Place	110-4-10B	Remove concrete at NE corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at NE corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at NE corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at north leg	114	\$7.00	SF	\$798.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north leg	57	\$14.45	LF	\$823.65
NW 109th Court	110-4-10B	Remove concrete at NW corner of the intersection	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at NW corner of the intersection	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at NW corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at north leg	104	\$7.00	SF	\$728.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north leg	52	\$14.45	LF	\$751.40
NW 109th Avenue	110-4-10B	Remove concrete at NE and SE corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and SE corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and SE corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at north and south legs	248	\$7.00	SF	\$1,736.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north and south legs	124	\$14.45	LF	\$1,791.80
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
	700-46-01, 700-20-11	Relocate the school crossing sign on the south and east legs closer to the crosswalk	2	\$410.00	EA	\$820.00
NW 108th Place	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-17	Remove existing standard crosswalk at north leg	106	\$7.00	SF	\$742.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north leg	53	\$14.45	LF	\$765.85
NW 108th Court	110-4-10B	Remove concrete at NW corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at NW corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at NW corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at north leg	108	\$7.00	SF	\$756.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north leg	54	\$14.45	LF	\$780.30
SW 108th Avenue	110-4-10B	Remove concrete at SW corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at SW corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at SW corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at south leg	108	\$7.00	SF	\$756.00
	711-11-123, 711-11-125	Install ladder type crosswalk at south leg	54	\$14.45	LF	\$780.30
SW 105th Place	711-17	Remove existing standard crosswalk at north and south legs	274	\$7.00	SF	\$1,918.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north and south legs	137	\$14.45	LF	\$1,979.65
	700-20-11	Install fluorescent green school crossing signs at all legs	4	\$350.00	AS	\$1,400.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
SW 104th Court	110-4-10B	Remove concrete at SE corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at SE corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at SE corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at south leg	116	\$7.00	SF	\$812.00
	711-11-123, 711-11-125	Install ladder type crosswalk at south leg	58	\$14.45	LF	\$838.10
SW 103rd Court	110-4-10B	Remove concrete at SW corner	3	\$15.00	SY	\$41.67
	522-1 (1)	Add concrete at SW corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at SW corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-17	Remove existing standard crosswalk at south leg	112	\$7.00	SF	\$784.00
	711-11-123, 711-11-125	Install ladder type crosswalk at south leg	56	\$14.45	LF	\$809.20
SW 102nd Avenue	711-17	Remove existing standard crosswalk at all legs	700	\$7.00	SF	\$4,900.00
	711-11-123, 711-11-125	Install ladder type crosswalk at all legs	356	\$14.45	LF	\$5,144.20
	700-20-11	Add fluorescent green school crossing signs at all legs	8	\$350.00	AS	\$2,800.00
SW 4th Street						
SW 102nd Avenue	711-17	Remove existing standard crosswalk at north leg	80	\$7.00	SF	\$560.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north leg	40	\$14.45	LF	\$578.00
	110-4-10B	Remove concrete at NW and SW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NW and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NW and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at south leg	36	\$14.45	LF	\$520.20
SW 103rd Avenue	522-1 (1)	Add concrete for sidewalk connection/ramp at SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at SE and SW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at south leg	36	\$14.45	LF	\$520.20
SW 103rd Court	522-1 (1)	Add concrete for sidewalk connection/ramp at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at NE and NW corners (2 pads) (embedded)	20	\$39.70	SF	\$794.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north leg	43	\$14.45	LF	\$621.35
SW 104th Avenue	522-1 (1)	Add concrete for sidewalk connection/ramp at SW corner	3	\$35.00	SY	\$97.22
	527-2	Add detectable warning pads at SE corner (1 pad) (embedded)	10	\$39.70	SF	\$397.00
	711-11-123, 711-11-125	Add ladder type crosswalk at south leg	50	\$14.45	LF	\$722.50
SW 104th Court	711-17	Remove existing high emphasis crosswalk at north leg	275	\$7.00	SF	\$1,925.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north leg	55	\$14.45	LF	\$794.75
West of SW 104th Court	700-48-60 B, 700-48-18	Replace 'school crossing + speed zone ahead' combination sign facing westbound with a fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$500.00	EA	\$500.00
SW 105th Place	711-17	Remove existing high emphasis crosswalk at north leg	200	\$7.00	SF	\$1,400.00
	711-11-123, 711-11-125	Install ladder type crosswalk at north leg	40	\$14.45	LF	\$578.00
SW 106th Avenue	711-17	Remove existing high emphasis crosswalk at east and south legs	415	\$7.00	SF	\$2,905.00
	711-11-123, 711-11-125	Install ladder type crosswalk at east and south legs	83	\$14.45	LF	\$1,199.35
	700-48-60 B, 700-48-18	Replace school crossing sign with fluorescent green sign on the east leg	2	\$455.00	EA	\$910.00
Mid-block crossing in front of the school		Evaluate the feasibility of a raised crosswalk across SW 4 Street (and pick-up/drop off area) to provide a crosswalk with enhanced visibility	1	\$12,000.00	EA	\$12,000.00
SW 107th Avenue*	110-4-10B	Remove concrete at all corners				
	522-1 (1)	Add concrete at all corners				
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)				
	653-191	Add pedestrian countdown signal heads at all legs				
	700-20-11	Add fluorescent green school crossing signs at all legs				
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)				
		*These improvements are included in the FDOT's SW 107th Avenue reconstruction plans. Therefore, costs not included.				
SW 108th Avenue	711-11-123, 711-11-125	Add ladder type crosswalk at south leg	35	\$14.45	LF	\$505.75
SW 109th Avenue	653-191	Add pedestrian countdown signals at east and west legs	4	\$714.90	AS	\$2,859.60
	700-20-11	Install fluorescent green school crossing signs facing north-south traffic	2	\$350.00	AS	\$700.00
	700-48-18	Install pedestrian signal actuation sign panels (4 panels)	4	\$410.00	EA	\$1,640.00
SW 110th Avenue	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	522-1 (1)	Add sidewalk connection/ramp at SE and SW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads at all corners (4 pads) (embedded)	40	\$39.70	SF	\$1,588.00
	711-11-123, 711-11-125	Add ladder type crosswalk at north and south legs	77	\$14.45	LF	\$1,112.65

Road Segments	Pay Item(s)	Recommended Improvements	Quantity	Unit Cost (\$)	Unit	Total
SW 107th Avenue						
FIU Engineering Center Entrance	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads (2 pads) (embedded)	20	\$39.70	SF	\$794.00
Laguna Plaza Driveway	110-4-10B	Remove concrete at NE and NW corners	6	\$15.00	SY	\$83.33
	522-1 (1)	Add concrete at NE and NW corners	6	\$35.00	SY	\$194.44
	527-2	Add detectable warning pads (2 pads) (embedded)	20	\$39.70	SF	\$794.00
West Flagler Street	711-17	Remove existing standard crosswalk at all legs	746	\$7.00	SF	\$5,222.00
	711-11-123, 711-11-125	Install ladder crosswalk at all legs	373	\$14.45	LF	\$5,389.85
	700-20-11	Add fluorescent green school crossing signs at all legs	4	\$350.00	AS	\$1,400.00
SW 2nd Street	711-17	Remove existing standard crosswalk at west leg	114	\$7.00	SF	\$798.00
	711-11-123, 711-11-125	Install ladder crosswalk at west leg	57	\$14.45	LF	\$823.65
	700-48-60 , 700-82A	Replace sign panels on overhead school speed zone flasher with fluorescent green signs (2 sign panels)	2	\$500.00	EA	\$1,000.00
SW 3rd Street	711-17	Remove existing standard crosswalk at west leg	102	\$7.00	SF	\$714.00
	711-11-123, 711-11-125	Install ladder crosswalk at west leg	51	\$14.45	LF	\$736.95
SW 5th Street	711-17	Remove existing standard crosswalks at east and west legs	210	\$7.00	SF	\$1,470.00
	711-11-123, 711-11-125	Install ladder crosswalks at east and west legs	105	\$14.45	LF	\$1,517.25
SW 6th Street	711-17	Remove existing standard crosswalks at east and west legs	224	\$7.00	SF	\$1,568.00
	711-11-123, 711-11-125	Install ladder crosswalks at east and west legs	112	\$14.45	LF	\$1,618.40
SW 7th Street	711-17	Remove existing standard crosswalk at west leg	100	\$7.00	SF	\$700.00
	711-11-123, 711-11-125	Install ladder crosswalk at west leg	50	\$14.45	LF	\$722.50
SW 7th Terrace	711-17	Remove existing standard crosswalk at east leg	106	\$7.00	SF	\$742.00
	711-11-123, 711-11-125	Install ladder crosswalk at east leg	53	\$14.45	LF	\$765.85
SW 105th Place between Flagler Street and SW 4 Street						
	700-48-60 B, 700-48-18	Replace 'speed zone ahead' sign facing southbound with a fluorescent green school speed limit ahead sign (\$4-5) per MUTCD	1	\$455.00	EA	\$455.00
Various Locations						
	700-48-60 B, 700-48-18	Replace "SCHOOL" plaque on school speed assembly with fluorescent green signs (estimated 30 signs)	30	\$455.00	EA	\$13,650.00
Bike Racks within School Premises						
		Install 10 bike racks, concrete pads and a fence (to secure bike rack area)	1	\$3,000.00	EA	\$3,000.00
Construction Cost						\$132,380.06
Maintenance of Traffic (10%)						\$13,238.01
Mobilization (10%)						\$13,238.01
Total Construction Cost						\$158,856.07
PE (15%)						\$23,828.41
CEI (15%)						\$23,828.41
Total Funding Request						\$206,512.89
Contingency (15%)						\$23,828.41
Total Cost						\$230,341.30



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