SAFE ROUTES TO SCHOOL PROGRAM

PURPOSE

To Develop a Procedure for Establishing Safe Routes to School (SR2S) for Elementary Schools Miami-Dade County

SAFE ROUTES TO SCHOOL PROGRAM

BENEFITS of SR2S PROGRAMS

- Promote Walking & Bicycling to School
- Enhance Bicycle and Pedestrian Safety
- Improve Quality of Life

SAFE ROUTES TO SCHOOL PROGRAM

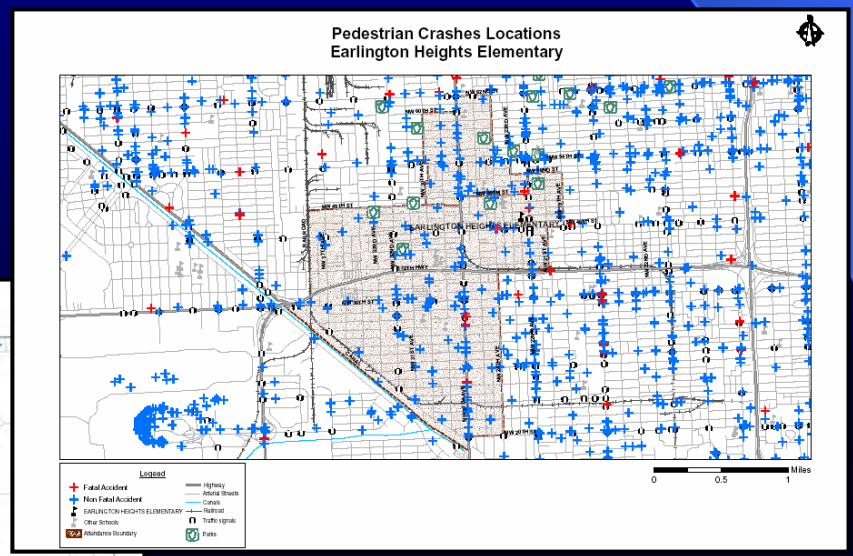
APPROACHES TO SR2S PROGRAMS

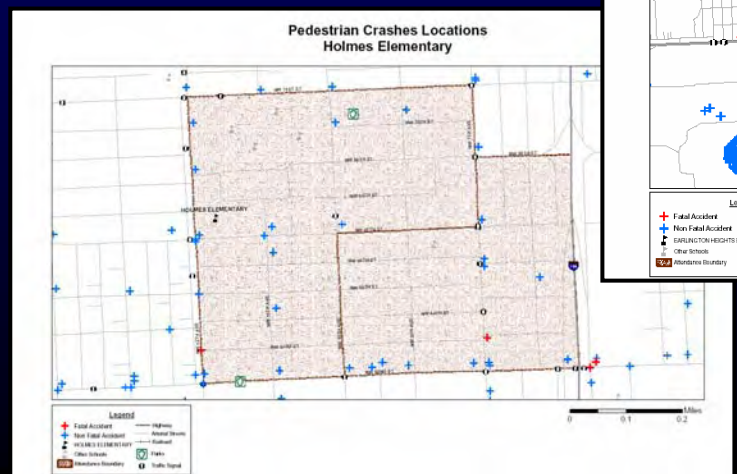
- Encouragement
- Education
- Engineering
- Enforcement

SAFE ROUTES TO SCHOOL PROGRAM

SELECTION OF SCHOOLS FOR PILOT PROJECT

- Review Pedestrian Crash Records
- Identify High Pedestrian Crash Areas





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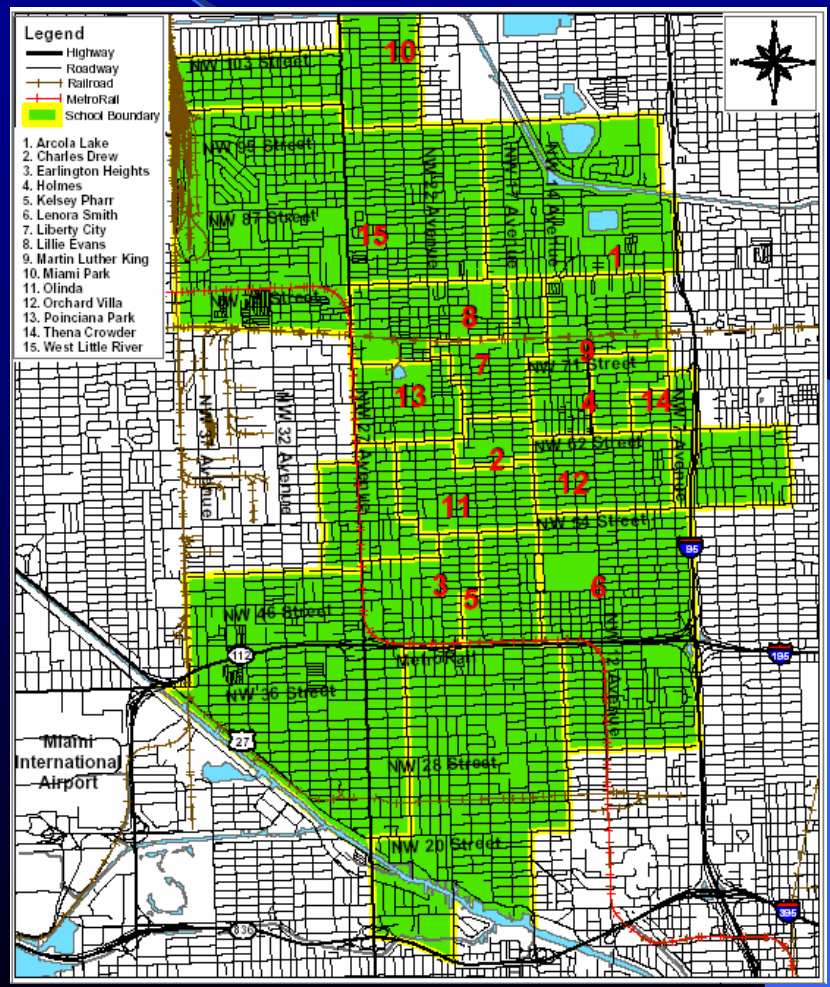
SELECTION OF SCHOOLS FOR PILOT PROJECT

- Selected 15 Elementary Schools in Liberty City

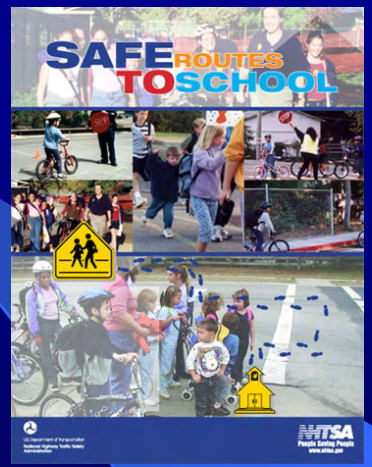


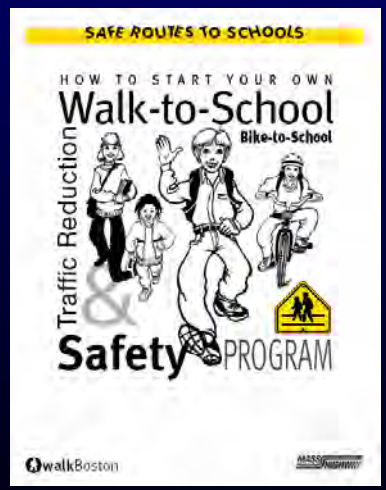
SAFE ROUTES TO SCHOOL PROGRAM

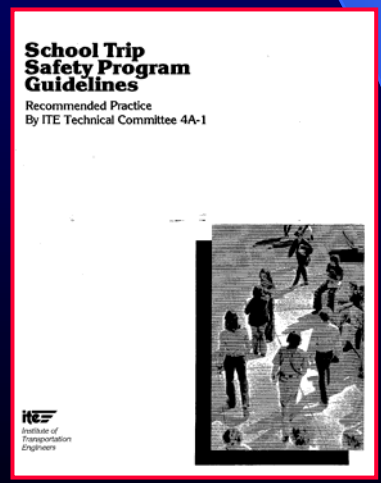
BACKGROUND RESEARCH

Resources

- Safe Routes to School, NHTSA
- Safe Ways to School, “Tool Kit”,
  The Florida Traffic and Bicycle Safety Education Program
- School Trip Safety Program Guidelines, ITE
- Walk to School Safety Program, Walk Boston







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BACKGROUND RESEARCH

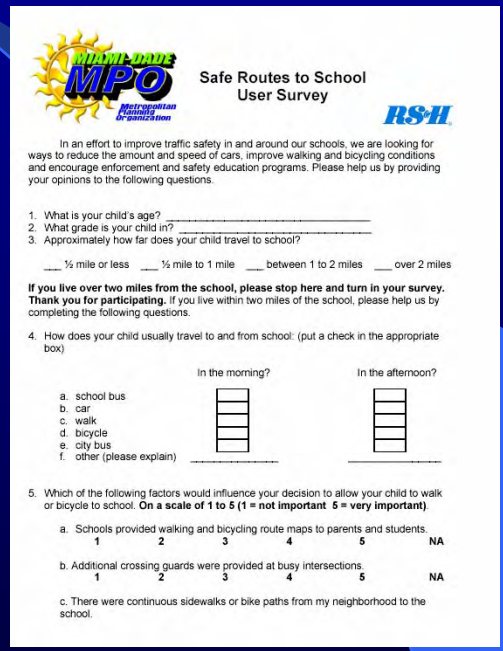
Case Studies

- Marine County, California
- The Bronx, New York
- Parkmead, California
- Greenest City, Toronto Canada
- Hampshire, England

SAFE ROUTES TO SCHOOL PROGRAM

PILOT PROJECT
Data Collection

- Field Reviews
- User Surveys
- Interviews (Principals, Parents, Students)
- Existing Safe Route Maps
- Land Use
- School Boundaries
- Traffic Control Devices (Signals, Signs, Pavement Markings)



Safe Routes to School
User Survey

In an effort to improve traffic safety in and around our schools, we are looking for ways to reduce the amount and speed of cars, improve walking and bicycling conditions and encourage enforcement and safety education programs. Please help us by providing your opinions to the following questions.

1. What is your child's age? _____
2. What grade is your child in? _____
3. Approximately how far does your child travel to school?

___ ½ mile or less ___ ½ mile to 1 mile ___ between 1 to 2 miles ___ over 2 miles

If you live over two miles from the school, please stop here and turn in your survey. Thank you for participating. If you live within two miles of the school, please help us by completing the following questions.

4. How does your child usually travel to and from school: (put a check in the appropriate box)

	In the morning?	In the afternoon?
a. school bus		
b. car		
c. walk		
d. bicycle		
e. city bus		
f. other (please explain) _____		

5. Which of the following factors would influence your decision to allow your child to walk or bicycle to school. **On a scale of 1 to 5 (1 = not important 5 = very important).**

a. Schools provided walking and bicycling route maps to parents and students.
1 2 3 4 5 NA

b. Additional crossing guards were provided at busy intersections.
1 2 3 4 5 NA

c. There were continuous sidewalks or bike paths from my neighborhood to the school.

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PILOT PROJECT
Evaluation of Alternative Routes

- Establish Safe Route Criteria
- Develop Evaluation Matrix

Major Criteria

- Low Traffic Volume
- Low Speeds
- No Railroad X-ings
- No Canals
- No Security Concerns

Other Criteria

- Continuity of Streets
- # of Driveways
- Sight Obstructions
- Proximity of Police/Fire Station

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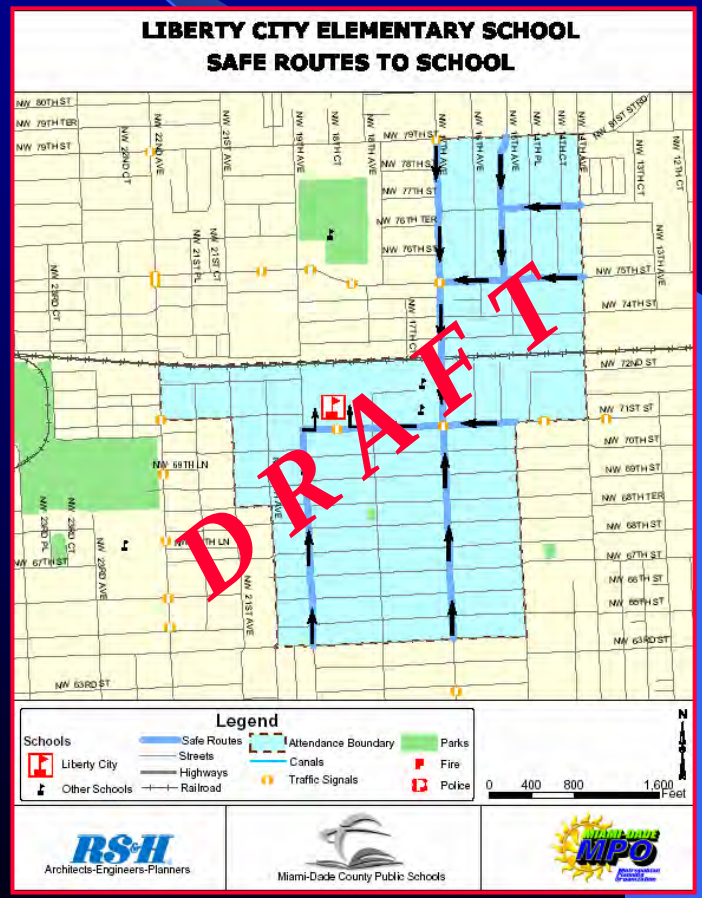
PILOT PROJECT
Preliminary SR2S Maps and Reviews

- Develop Preliminary SR2S Maps
- Reviews (SAC, Principals, PTA)



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PILOT PROJECT

Final SR2S Maps

- Develop Final SR2S Maps
- Instructions – English, Spanish, Creole
- Recommends for Improvements to Safe Routes

ENGINEERING METHODS

Objective	Pedestrian Design	Bicycle Design	Intersection Design	Traffic calming	Signals and Signs
Improve mobility and reduce exposure for pedestrians and bicyclists	Sidewalk/Walkway Curb ramps Crosswalk enhancements Bus stop improvements Overpasses/underpasses	Add bike lane/shoulder Road narrowing Bicycle Narrowing Widen outside lane or shoulder	Curb extensions Choker Pedestrian crossing island Raised intersection	Curb extensions Raised pedestrian crossing Raised intersection Crosswalk enhancements	Traffic signal Signal enhancement, e.g., countdown, audible Accessible pedestrian signal Signal timing
Improve sight distance and visibility for motor vehicles pedestrians and bicyclists	Crosswalk enhancements Roadway lighting Move poles/newspaper boxes/signs at street corners Trim vegetation	Add bike lane/shoulder Widen outside lane Trim vegetation Bicycle boulevard	Curb extensions Raised intersection Paving treatments Move poles/newspaper boxes/signs at street Corners	Curb extensions Speed tables Raised pedestrian crossing Crosswalk enhancements	High visibility SCHOOL and XING signs Advanced stop lines LED pedestrian signals Lighted crosswalks
Reduce speed of motor vehicles	Curb extensions Raised pedestrian crossing Raised intersection Reduce width or number of lanes	Add bike lane/shoulder Reduce width or number of lanes Curb radius intersection	Raised intersection Modern roundabout Traffic circle Paving treatment	See all above, plus: Speed humps Choker and chicane Landscaping/paving treatments	Adjust signal timing for motor vehicles Lower speed limit, when warranted Speed feedback signs
Reduce volume of motor vehicles	Pedestrian street Pedestrian-oriented design	Reduce number of lanes Bicycle boulevard	Gateway treatment Diverters or woonerfs	Partial street closure Full street closure	Turning restrictions One-way street conversion
Improve compliance with traffic laws	In-street pedestrian crossing signs Pedestrian crossing flags Crossing guards Countdown signals	Bicycle lane signs Share the Road signs Pavement legends Bicycle signals	Red-light camera Mini-circle Countdown signals Improved timing to discourage jaywalking	Choker Chicane Speed hump	High visibility and warning signs Neighborhood signs Speed monitoring trailer

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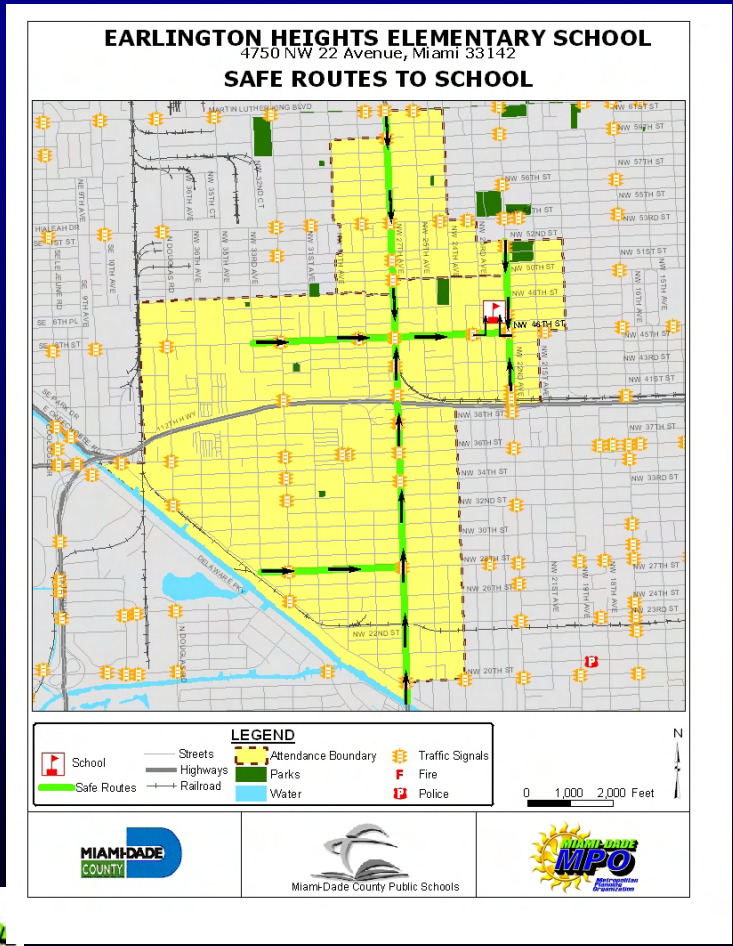
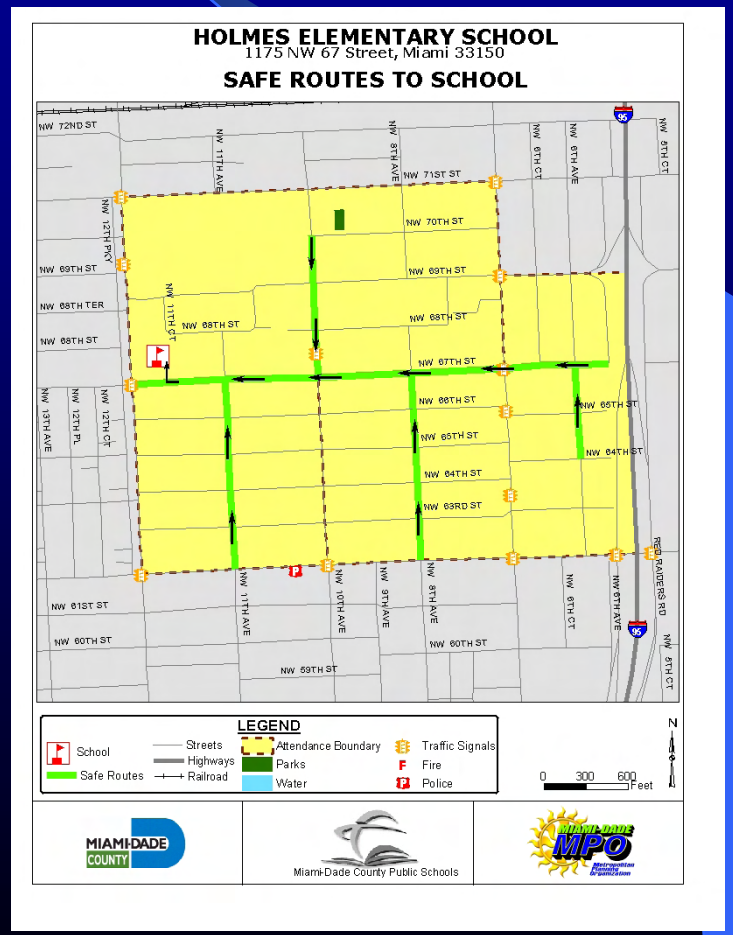
PILOT PROJECT

Final SR2S Maps





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SAFE ROUTES TO SCHOOL PROGRAM

PROCEDURE MANUAL

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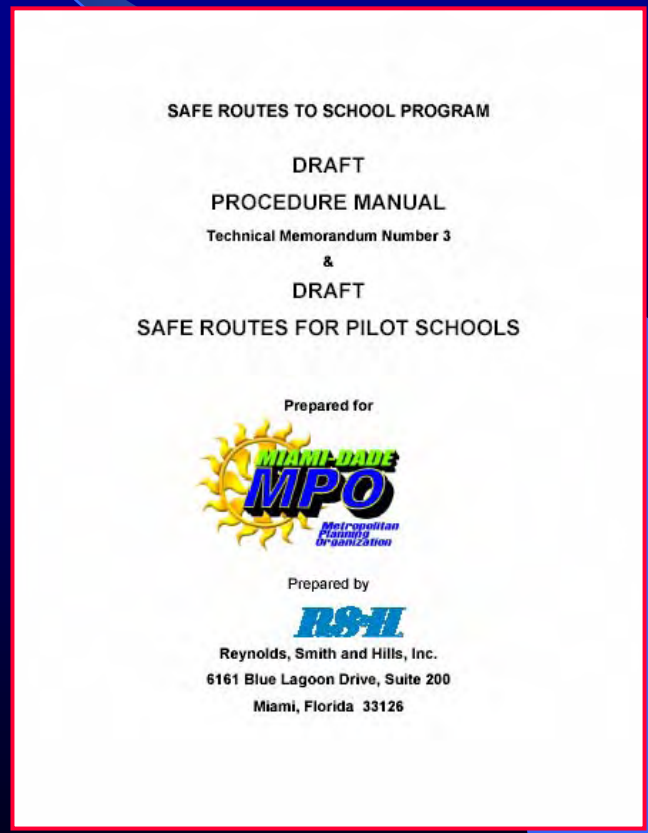
- Establish Technical Advisory Committee
- User Surveys
- Data Research and Field reviews
- Route Evaluation
- Preliminary Safe Route Selection
- Review and Comments
- Final SR2S
- Production and Distribution
- Periodic Reviews of SR2S



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PROCEDURE MANUAL

Technical Memorandum Number 3

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SAFE ROUTES FOR PILOT SCHOOLS

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