

2017-2018

CREATED NOV. 2017

School Travel Plan



Safe Routes



**To School
with**

TransOptions

CENTRAL AVENUE SCHOOL

**50 Central Avenue
Madison, NJ 07940**

Contents

| | |
|--|----|
| Introduction: | 1 |
| Goals of the Travel Plan: | 1 |
| Working Group Members: | 2 |
| Existing Effort: | 3 |
| Proximity Analysis: | 3 |
| Safe Routes to School Pedestrian and Bicycle Safety Programs and Events: | 3 |
| Signage Changes:..... | 6 |
| Safe Routes to School Program Inclusion for Students with Disabilities: | 7 |
| Current School Travel Environment:..... | 7 |
| School Policies: | 7 |
| Travel Tallies:..... | 8 |
| Walk and Bike Barriers and Opportunities: | 11 |
| Parent-Caregiver Feedback: | 11 |
| Safety Related Concerns: | 14 |
| Road Crossing Related Concerns:..... | 14 |
| Community Driven Goals and Recommendations: | 14 |
| Next Steps: | 17 |
| Action Timeline: | 17 |
| Maps: | 17 |

Introduction:

Safe Routes to School (SRTS) is an initiative that promotes safer and more accessible walking and bicycling environments for children in New Jersey through education, training, and research. SRTS is supported by the New Jersey Department of Transportation with funds from the Federal Highway Administration. TransOptions is one of eight Transportation Management Associations in New Jersey that provides SRTS programming to schools. TransOptions' service area includes multiple counties in Northwestern New Jersey.

Central Avenue School has collaborated with TransOptions to implement multiple pedestrian and bike safety programs within the school such as Traffic Safety Town, Bike Rodeo, Ready to Walk and Roll, Walk to School Days and Frequent Biker/Walker Program punch cards. Additionally, in 2013, Central Avenue School, in collaboration with TransOptions and the Madison Police Department, conducted a Speed Sentry study on Greenwood Ave. to assess traffic and speed-related concerns.

School Description:

Madison Borough is located in southeastern Morris County and has a total area of 4.218 square miles. Central Avenue School is located at 50 Central Avenue in a residential section of town across the street from the Dodge Field with close proximity to neighborhoods, Madison High School, Summerhill Park, and the business district of Main Street.

Central Avenue School's current enrollment is 499 students in pre-school through 5th grade and has special education programs. The school is open from 7:00am-6:15pm with class hours between 8:30am-3:15pm. Before and after school care programs are available from 7:00am-8:35am and 3:15pm-6:15pm. All after school activities end by 4:15pm.

The Speed Limit on Central Avenue is posted at 30mph, but drops to 25mph in the school zone when children are present. A flashing 25mph school zone speed limit and speed sentry sign are located in the school zone to alert drivers.

Goals of the Travel Plan:

1. To make travel to and from Central Avenue School safer and more efficient
2. To encourage walking and bicycling to school
3. To set a foundation for ongoing Safe Routes to School programming
4. To create awareness amongst motorists in Madison Borough
5. To reduce traffic congestion on Central Avenue and nearby streets around the school during arrival and dismissal times.

Working Group Members:

Working group members consist of Central Avenue School's principal, PTO president and members, TransOptions, Madison Borough, Madison Borough Police Department, and several community members. These members assist and support Safe Routes to School programs and continue to encourage Safe Routes to School.

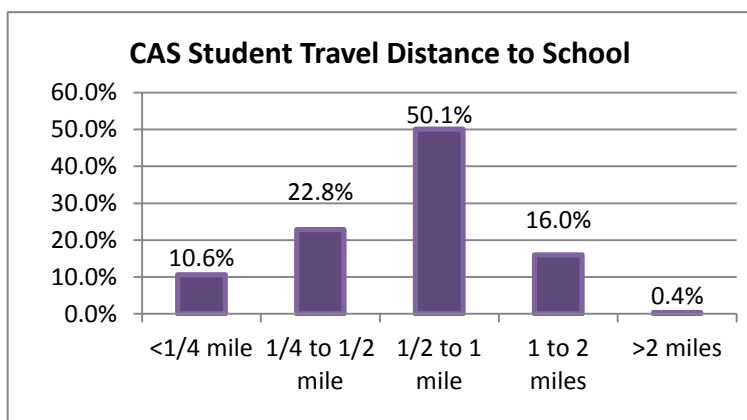
| Member Name | Organization / Title | Role / Responsibility | Contact Info (phone, email) | General Timeline |
|---|--------------------------------------|----------------------------|---|--------------------------|
| Emily Casey Lisa Leone Justin Jenkins | TransOptions TMA | SRTS Program Assistance | 973-267-7600 ecasey@transoptions.org lleone@transoptions.org jjenkins@transoptions.org | Ongoing |
| Thomas Liss | Central Avenue School | Principal | 973-593-3173 list@madisonnjps.org | Ongoing |
| Johana Habib | Madison Board of Education | Sustainable Jersey Liaison | habibj@madisonnjps.org | Ongoing |
| Lt. Joseph Longo | Madison Police Department | Program Involvement | 973-593-3035 | Spring 2017 |
| Chief Darren Dachisen | Madison Police Department | Program Involvement | 973-593-3015 | Spring 2017 |
| Mindy Chase | PTO President | Program Involvement | caspto@gmail.com | Ongoing |
| Kristen Cohen | PTO Representative | Program Involvement | caspto@gmail.com | Ongoing |
| Gretchen Schleck | PTO Representative | Program Involvement | caspto@gmail.com | Ongoing |
| Natalie Mazurets | PTO Representative | Program Involvement | caspto@gmail.com | Ongoing |
| John F. Hoover | Tri-Town Coalition | Program Involvement | 862-246-6065 Tritown55plus@gmail.com | Spring 2017 |
| Mayor Robert Conley | Madison Borough | Program Involvement | 973-593-3038 mayor@rosenet.org | October 2017 |
| Sam Cooper | Hilltop Bikes | Program Involvement | 973-822-2453 | May 2017 |
| Lindsay Prewitt | Health Department Health Educator | Program Involvement | 973-593-3079 | 2016-2017 School Year |

Existing Effort:

Central Avenue School is devoted to educating its students about pedestrian and bicycle safety and has created a fun and safe walking and bicycling environment for students. Students are encouraged to walk and bike to school through promotion of Walking Wednesdays, Frequent Biker/Walker Program punch cards, as well as in class bike and pedestrian safety programs.

Proximity Analysis:

Central Avenue School provided redacted student addresses for the 2017-2018 academic year to TransOptions. These student locations were used to assess the feasibility of students walking or biking to and from school based on the distance they live from Central Avenue School. (See Map 1 and Map 2. on pages 18 and 19)



Central Avenue School Student Travel Distances

| <i>Distance to School</i> | <i>Count</i> | <i>Percentage</i> |
|---------------------------|--------------|-------------------|
| <1/4 mile | 53 | 10.6% |
| 1/4 to 1/2 mile | 114 | 22.8% |
| 1/2 to 1 mile | 250 | 50.1% |
| 1 to 2 miles | 80 | 16.0% |
| >2 miles | 2 | 0.4% |
| Total | 499 | 100.0% |

Of the 499 students enrolled at Central Avenue School, 33% (167 students) live within a half mile of Central Avenue School with 84% of students (417 students) living within one mile of the school. This data can be used by the school to further assess walking and biking routes as well as student travel modes.

Safe Routes to School Pedestrian and Bicycle Safety Programs and Events:

- International Walk to School Day
- Frequent Biker/Walker Program- Walk to School Wednesdays with punch cards
- Bike Rodeo
- Ready to Walk and Roll
- Bike Swap
- Traffic Safety Town



International Walk to School Day 2017

International Walk to School Day (October 2017)

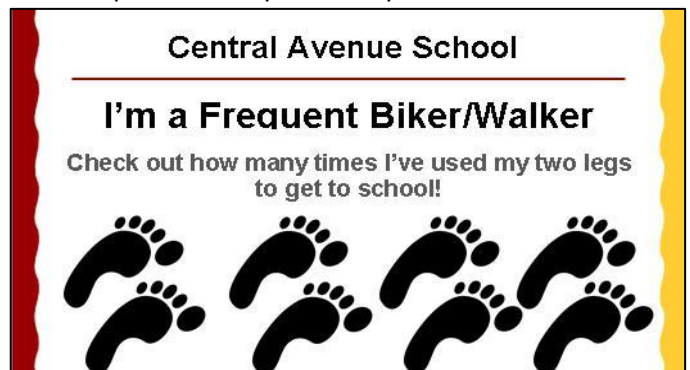
Central Avenue School participates annually in International Walk to School Day in October with support from the Mayor, TransOptions, and PTO. Safety giveaways (reflective zipper pulls, erasers, and buttons), provided by TransOptions were presented to students that walked or biked to school Parents received coffee from the PTO.



TransOptions' Safety Giveaways

Frequent Biker/Walker Program-Walk to School Wednesdays

Central Avenue School hosts a Frequent Biker/Walker Program to encourage students to walk or bike to school. Students wear the frequent biker/walker punch cards on their backpacks, and teachers punch their cards on Wednesday if they walked or biked that day. Once filled, these punch cards act as raffle entries for prizes provided by the PTO. TransOptions began this program at the beginning of the 2016-2017 school year and it has continued through the 2017-2018 school year.



Frequent Biker/Walker Punch Cards



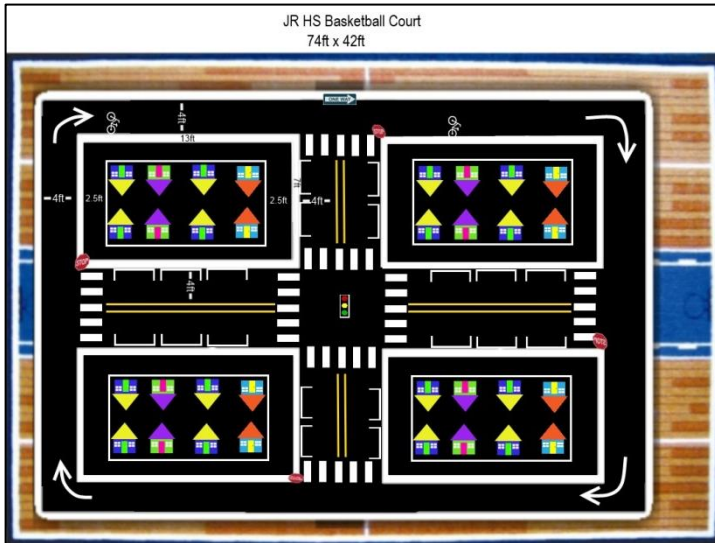
Bike Rodeo: (June 2017)

Central Avenue School, TransOptions, and the PTO hosted the school's first bike rodeo for 3rd, 4th, and 5th graders with the Madison Police Department and additional community partners. Traffic safety stations included obstacle courses and riding challenges to teach students turn signals, how to navigate intersections, cross driveways, avoid drivers' blind spots and yield to pedestrians. This Bike Rodeo will become an annual event for all 3rd grade students who then gain the privilege in 4th grade to bike to school alone.



Ready to Walk and Roll: (November 2017)

Students in 1st grade participated in this interactive classroom program led by TransOptions. Students learned common street signs and safe ways to approach intersections by manipulating a miniature streetscape. Through storytelling, students identified safety hazards and safe choices when walking or biking to school.



Traffic Safety Town layout



Ready to Walk and Roll

Traffic Safety Town: (January 2018)

4th grade students participated in TransOptions' Traffic Safety Town in November 2016 and the new group of 4th graders is scheduled to receive this program in January 2018. This in class program features a gym-sized streetscape for students to role play as bike riders, drivers, and pedestrians. Through this simulation, students learn traffic signs, hazards, and ways to safely share the road.

Bike Swap (May 2017)

Central Avenue School's PTO holds an annual Bike Swap to ensure that students are riding a bicycle with a proper, safe fit. Families donate their used bikes, which are cleaned and tuned by a parent volunteer. Families within the school community are then able to select bikes more true to their size.

Signage Changes:

During a walkability audit completed in May 2017, it was noted that there were many idling cars in the pickup and drop off lines, especially during winter months. "No Idling" signs were recently installed within the school's pick up/drop off locations on Central Ave. and Walnut St.



Safe Routes to School Program Inclusion for Students with Disabilities:

TransOptions will continue to provide differentiated instruction during in-class education programs to all students in the 1st and 4th grade. This includes students with both learning and physical disabilities. TransOptions will work with Central Avenue School staff to arrange special accommodations to ensure every student in said grades receives safety education in its various forms. For future bike rodeos, TransOptions will collaborate with school staff prior to the event in order to identify any 3rd grade student who may require additional support or adaptive bicycle equipment. TransOptions will work with individual students' special education teams to make the on-bike event possible and meaningful however the school staff sees fit.

Current School Travel Environment:

School Policies:

Central Avenue School has implemented specific bicycle and pedestrian policies to make traveling to and from school a safe daily option for students. These policies are outlined below:

Bike Safety Policy:

Central Avenue School permits students in the 4th and 5th grade to bike to school unaccompanied by a parent or guardian and encourages students in younger grades to bike to school with a parent or guardian. For the protection and safety of students and their property, bicycles must be walked on school grounds and locked at bike racks located at the front of the school. Students riding bicycles to school must ride on the roadway and not on the sidewalk.

Pedestrian Safety Policy:

Central Avenue School encourages students to walk to and from school. Parents and guardians determine at what age students are able to walk without supervision. There are 29 crossing guards located through the Borough and students must cross the street at crossing guard posts.

Pick-up and Drop-off Policy:

For students being driven to and/or from school, curbside parent pick up and drop off areas are located on Walnut St. (begins at DeHart Pl.) and Central Ave. (in front of the school) between the hours 7:00am-9:00am and 2:00pm-4:00pm. Parking on Walnut St., DeHart Pl., and Cedar St. is limited to one side of the road. Cars should not double park and students should be the only ones to exit the cars curbside.

Bus Protocol:

Madison Borough is a walking district; therefore, students are not bused to or from school. Three buses serve Central Avenue School and are run by outside parties:

- The Kirby Bus (organized and controlled by the Kirby Center)
- The LLD Program Bus (Learning and/or Language Disabilities)
- The Pre-School Program Bus

Travel Tallies:

A Student Travel Tally from the National Center for Safe Routes to School was conducted on Tuesday, November 7th and Wednesday, November 16th in the fall of 2017. This tally collected data on student travel modes in both the morning and afternoon to gain an accurate understanding of how students travel to and from school. This data allows the administration to develop policies informed by their students' travel behaviors.

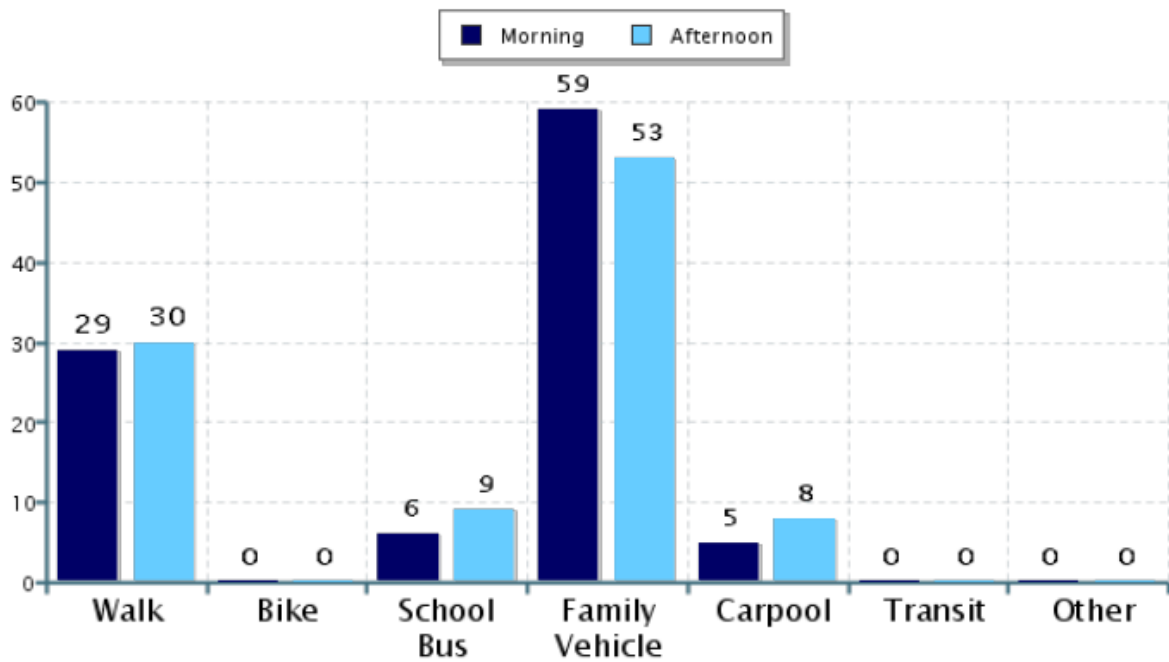
The data collected in this tally was completed by the homeroom teachers in a "show of hands" collection method where teachers asked students how they arrived to school that morning and how they planned to leave for home after school. Teachers then read off the list of choices to the students which include walk, bike, bus, carpool with children from other families, driven in a family vehicle with only children from your family, or other (scooter, skateboard, etc.), and students raised their hands for the option that matched how they traveled.

At Central Avenue School, in the morning, on average, 29% of students walk while 59% commute via family vehicle. 6% of students commute by bus, 5% carpool, and the other less than 1% bike or use other forms of transportation¹. In the afternoons, on average, fewer students took family vehicles (53%, a 6% decrease) and more students carpooled (8%), took school buses (9%), or walked (30%).

A breakdown summary of the survey results is presented below:

¹ Percentages may not total 100% due to rounding.

Morning and Afternoon Travel Mode Comparison

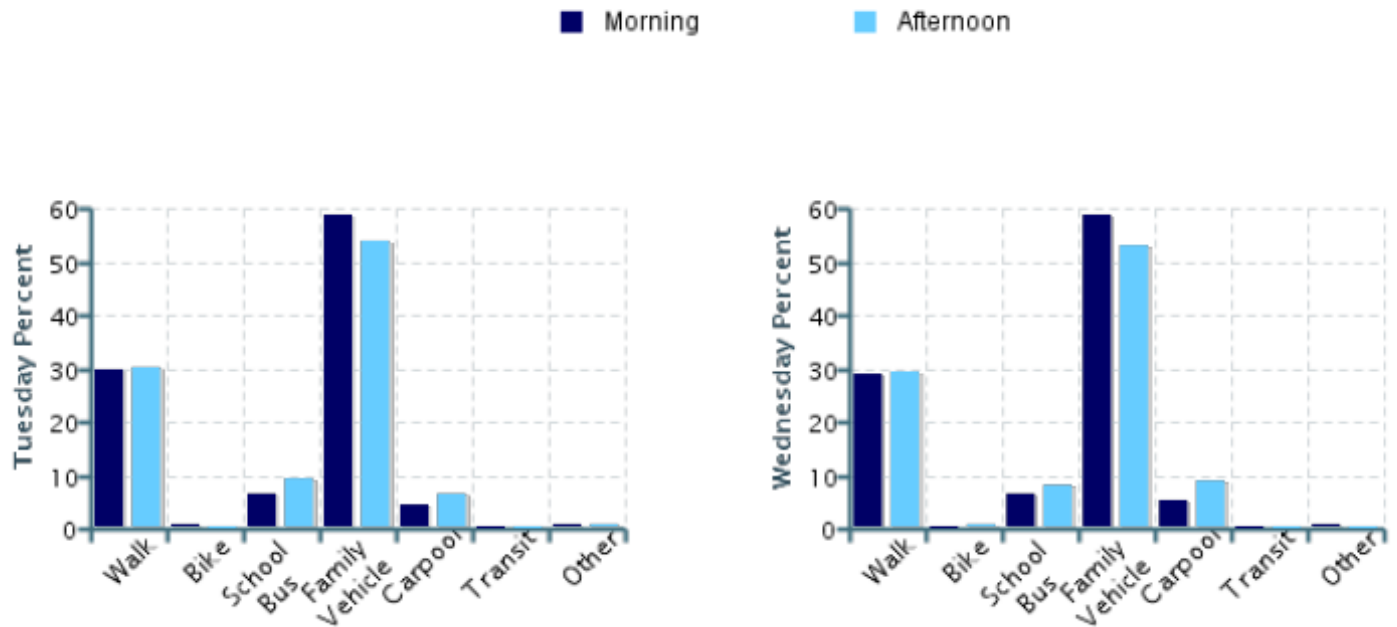


Morning and Afternoon Travel Mode Comparison

| | Number of Trips | Walk | Bike | School Bus | Family Vehicle | Carpool | Transit | Other |
|-----------|-----------------|------|------|------------|----------------|---------|---------|-------|
| Morning | 601 | 29% | 0.2% | 6% | 59% | 5% | 0% | 0.5% |
| Afternoon | 605 | 30% | 0.2% | 9% | 53% | 8% | 0% | 0.2% |

Percentages may not total 100% due to rounding.

Morning and Afternoon Travel Mode Comparison by Day



Morning and Afternoon Travel Mode Comparison by Day

| | Number of Trips | Walk | Bike | School Bus | Family Vehicle | Carpool | Transit | Other |
|--------------|-----------------|------|------|------------|----------------|---------|---------|-------|
| Tuesday AM | 303 | 30% | 0.3% | 7% | 59% | 4% | 0% | 0.3% |
| Tuesday PM | 309 | 30% | 0% | 9% | 54% | 6% | 0% | 0.3% |
| Wednesday AM | 298 | 29% | 0% | 6% | 59% | 5% | 0% | 0.7% |
| Wednesday PM | 296 | 29% | 0.3% | 8% | 53% | 9% | 0% | 0% |

Percentages may not total 100% due to rounding.

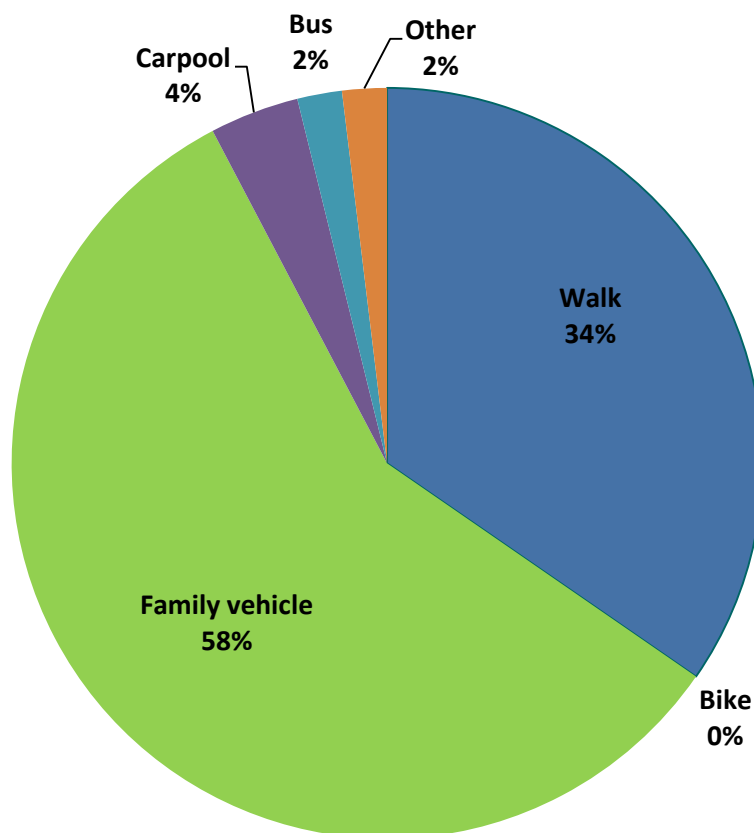
Walk and Bike Barriers and Opportunities:

Central Avenue School and TransOptions conducted a walkability audit in May 2017 with representatives from the PTO, Tri-Town Coalition, Borough Council, and parents to identify safety barriers and opportunities to promote a safer walking environment (See Map 3. on page 20). Additionally, TransOptions prepared an online parent-caregiver survey in November 2017 for parents to relay their concern and comments regarding decisions about their child walking/biking to and from school. The link to this survey was distributed in an e-mail to the parents from the principal. Both assessments addressed barriers and opportunities for students walking to and from school.

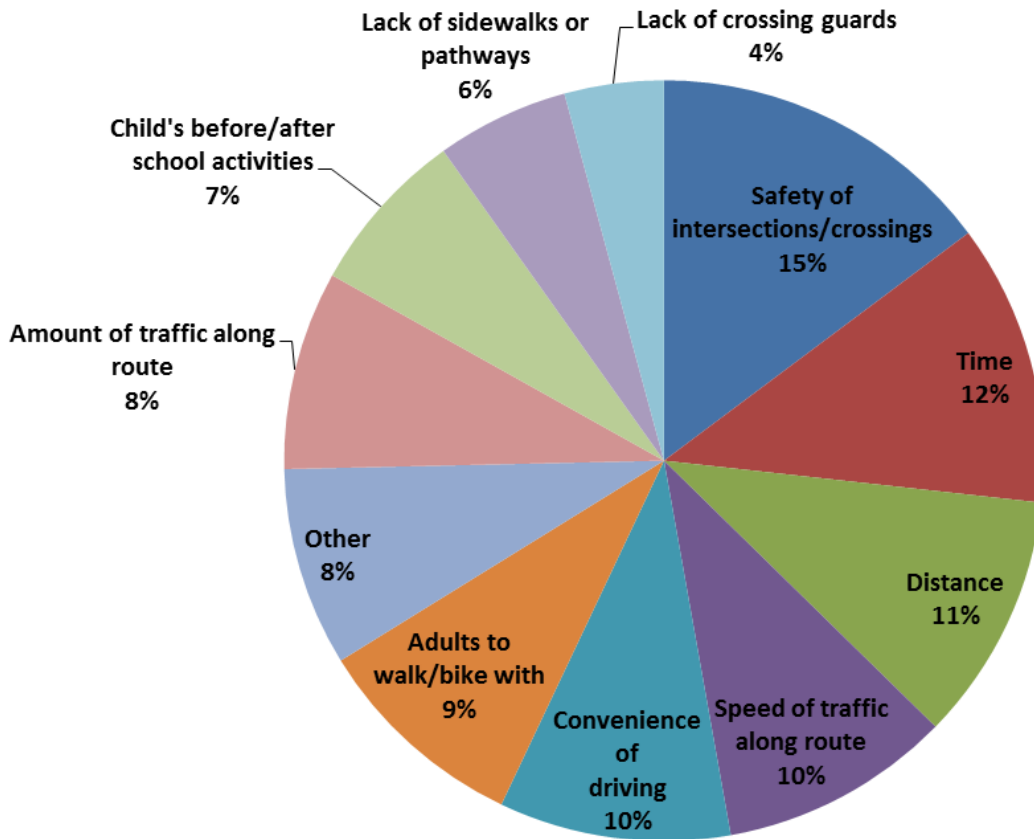
Parent-Caregiver Feedback:

A survey was provided to the parents/caregivers of students attending Central Avenue School in order to gather information regarding student travel behavior through the perspective of the parent/caregiver. 52 parents responded to the survey. Below are highlights from parents' responses:

Question 2: On most days, how does your child get to and from school?



Question 3: What issues affect your decisions to allow, or not allow, your child to walk or bike to/from school? (Mark all that apply)



Safety of intersections and crossings is the number one factor affecting parents' decision to let their child walk and/or bike to and from school. Time, distance, speed of traffic, and convenience of driving are additional factors that parents saw as main issues affecting decisions to allow their child to walk/bike to school.

Additional comments or concerns raised by parents:

Many of the parents who responded to the survey highlighted their specific concerns regarding their child walking/biking to or from school. Parents find the crossing guards on their route to be very helpful and aid in their child's safety; however, there is still concern about speeding and overall traffic volume. Others highlighted concerns regarding the lack of sidewalks on their route to school, drivers' inattentiveness to pedestrians in intersections, speed of traffic on Greenwood Ave., and the crossing at Sayre Ct. along Ridgedale Ave. One parent commented,

"We walk almost every day, but I hesitate to let the boys walk alone due to traffic, speeding, and driveways on Central. Our crossing guards are amazing!"

Another parent feels that despite having crossing guards, the traffic concerns are not mitigated and need to be addressed.

"The cars do not stop when people are in crosswalks even with a crossing guard on Greenwood. Many blow right by people standing in the intersection. Something needs to be done to slow people down and force a stop before someone gets hurt."

Despite concerns, some parents find that their route is safe and encourage all kids to walk to school.

"I'm very happy that the kids can walk to school with the crossing guards taking care of the traffic. All the kids from 1-6 grades should be allowed to go to school or walk back from school by themselves."

The walkability assessment along with additional parent feedback identified several barriers that pose potential dangers for students walking to and from school, as well as opportunities for enhancing pedestrian safety:

Safety Related Concerns:

- Sidewalk infrastructure maintenance needed: uneven, unstable, raised, cracked, blocked by overgrown shrubbery, contains holes, tree root damage and uplift, broken curb exposing pipe, missing curb cuts and truncated domes.
- Lack of sidewalks on some residential streets
- Busy drop-off and pick-up areas; drivers making U-turns and double parking

Road Crossing Related Concerns:

- Distracted driving, speeding, and inattentiveness towards pedestrians
- Crosswalk is missing at the intersection of Locust St. and Howell St.
- The crosswalk at Greenwood Ave. and Elmer St. is uneven and needs to be repainted
- Crosswalk at the intersection of Greenwood Ave. and Brittin St. is extremely busy and cars are not yielding to pedestrians
- Crosswalk signage missing on Ridgedale Ave.
- School zone sign is missing at the intersection of Ridgedale Ave. and Walnut Ave.
- Truncated domes missing at intersections
- Parked cars block line of sight and bike lanes

Community Driven Goals and Recommendations:

Short-term:

- ✓ Administration-managed pick up and drop off lines
- ✓ Crosswalk repainting at the intersections of Greenwood Ave. and Elmer St.; Central Ave. and Elmer St.

Mid-term:

- ✓ Police presence and enforcement of speeding and distracted driving on Greenwood Ave. and Central Ave.
- ✓ Install school zone signage on Ridgedale Ave.
- ✓ Install pedestrian crossing signs on Central Ave.
- ✓ Install flashing pedestrian crossing signs at busy intersections and crosswalks

Long-term:

- ✓ Infrastructural repairs of sidewalks on Central Ave., Greenwood Ave., Locust St., Chapel St., Main St., Ridgedale Ave., and Cook Ave.
- ✓ Installation of sidewalks on residential streets including Burnet St.
- ✓ Installation of truncated domes at intersections
- ✓ Crosswalk installations at the intersections of Locust St. and Howell St.; Cedar Ave. and Park Ave.
- ✓ Install speed calming measures on Greenwood Ave. before cross walks to slow traffic



Central Ave. Faculty Parking Lot sidewalk potholes



Cook Ave. uneven sidewalk



Broken curb on Main St. exposes piping



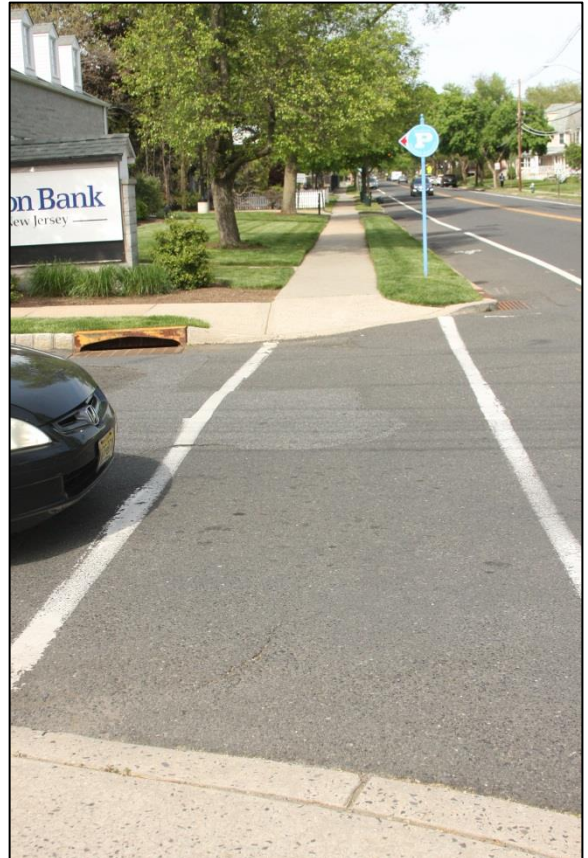
Cracked sidewalk on Walnut St.



Non-sloped sidewalk on Cook Ave. missing a curb cut and truncated dome.



Car double parked on Walnut St. in pick-up line



Crosswalk at Greenwood Ave. and Elmer St. is uneven



Crosswalk at Central Ave. and Elmer St. is faded and street cracked

Next Steps:

Central Avenue School will continue to participate in Safe Routes to School programs and encourage and promote students walking/biking to and from school. Central Avenue School will continue to partner with TransOptions to implement Safe Routes to School programs in their school. TransOptions will schedule pedestrian/bicycle education programs throughout the 2017-2018 school year including Ready to Walk and Roll, Traffic Safety Town, and a Bike Rodeo, with further collaboration throughout future school years. Central Avenue School will continue to participate in Walk and Bike to School Days. Continual updates of student travel mode tallies will provide informative feedback for Central Avenue School to evaluate and monitor their Safe Routes to School initiatives progress.

Action Timeline:

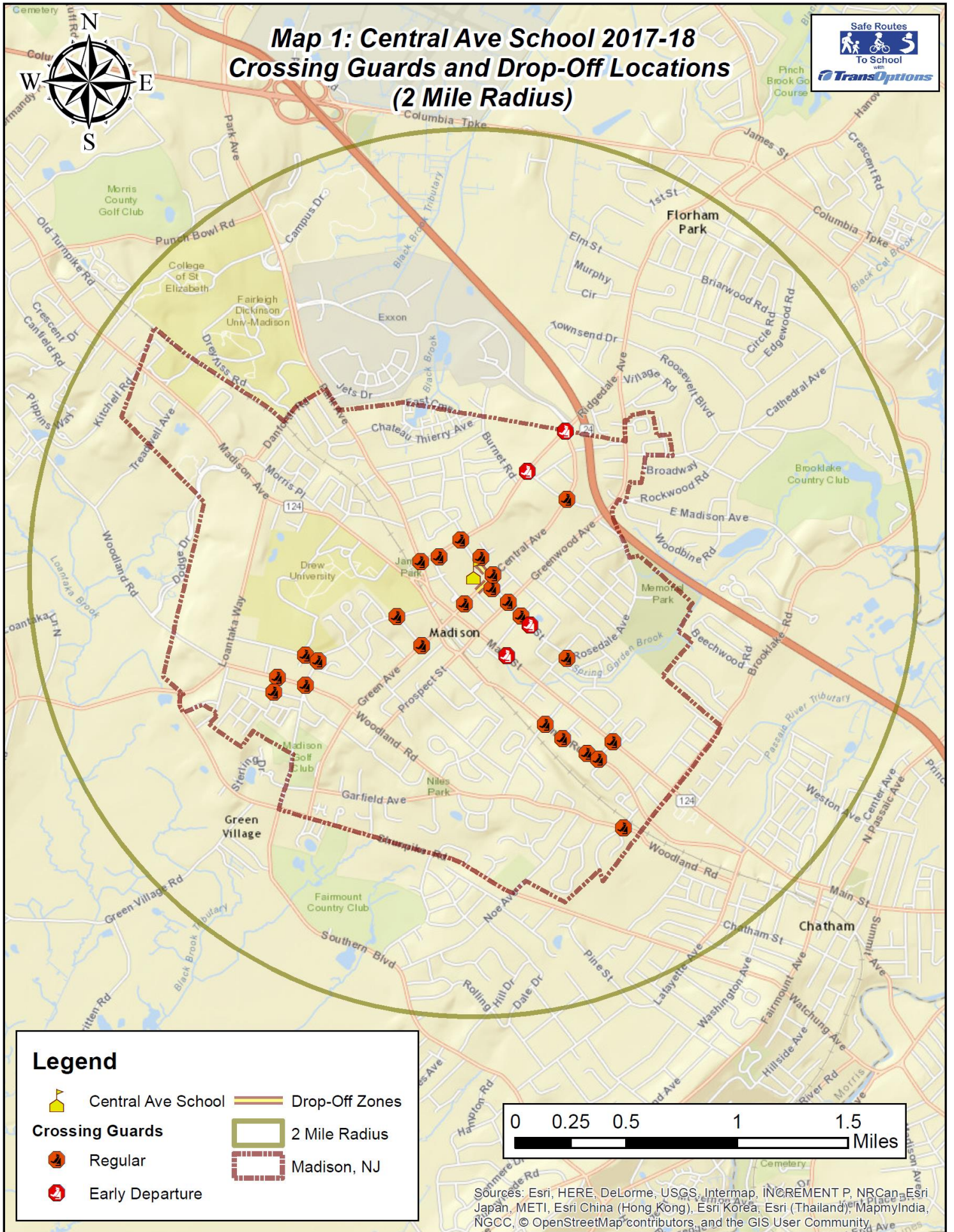
| Education Actions | Responsibility | Timeline | Cost |
|---|------------------------------------|-----------|----------------|
| Pedestrian safety in-class programs | TransOptions | Ongoing | Low |
| Bicycle safety in-class programs | TransOptions | Ongoing | Low |
| Encouragement Actions | | | |
| Continue Walk and Bike to School Days | School/TransOptions | Ongoing | Low |
| Continued use of Frequent Walk/Bike to School Program punch cards | School/TransOptions | Ongoing | Low |
| Walking School Bus/designated drop off and walk areas | School/PTO/TransOptions | 2018-2019 | Low |
| Enforcement Actions | | | |
| Speed and traffic law enforcement throughout school zone | Madison Police Department | 2017-2018 | Medium |
| Update Greenwood Ave. Speed Sentry Report | Madison Police/TransOptions/School | 2018-2019 | Low |
| Engineering Actions | | | |
| Installation/repair of sidewalks, crosswalks, pedestrian signage, speed bumps | Municipal/School | 2018-2019 | Medium to High |
| Walkability/Bikeability Audit | School/TransOptions | May 2019 | Low |
| Evaluation Actions | | | |
| Student Travel Tallies | School/TransOptions | Fall 2019 | Low |

Maps:

- Map 1. Central Avenue School Crossing Guard and Drop-off Locations (2 mile radius)
- Map 2. Central Avenue School Crosswalk and Crossing Guards within a 1 mile radius
- Map 3. Walkability Audit Route

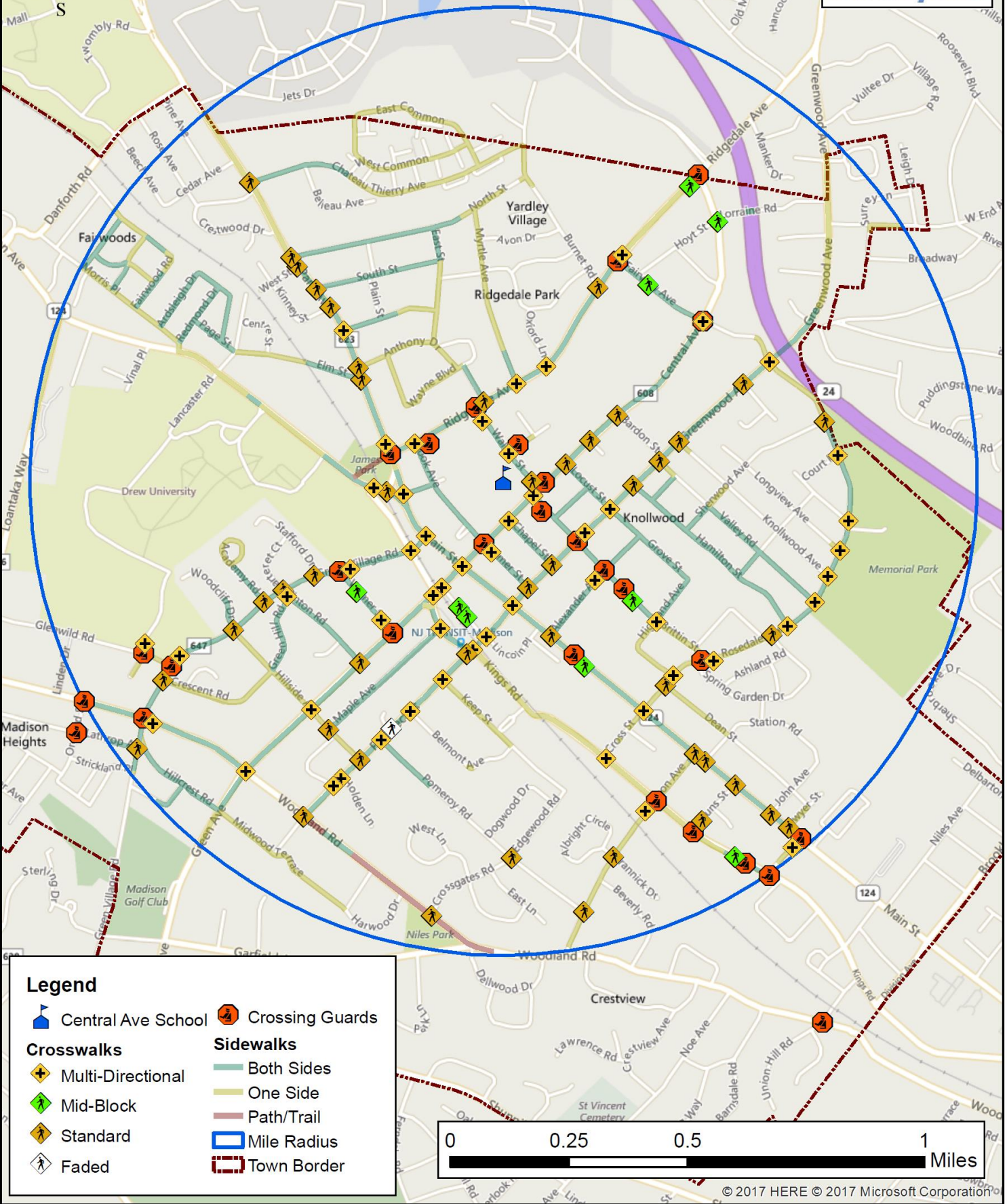
An interactive map showing locations of crossing guards within a 2 mile radius of Central Avenue School as well as the School's drop off zones is available here:

<https://drive.google.com/open?id=1MtjGKUIdoazgY6GE79qrM8QSUfZgVhgY&usp=sharing>



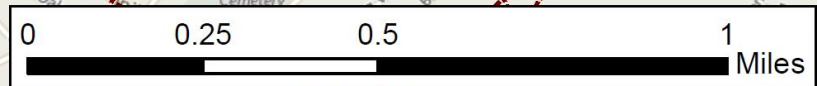


Map 2: Central Ave School Crosswalk Locations and Crossing Guards within a 1 Mile Radius

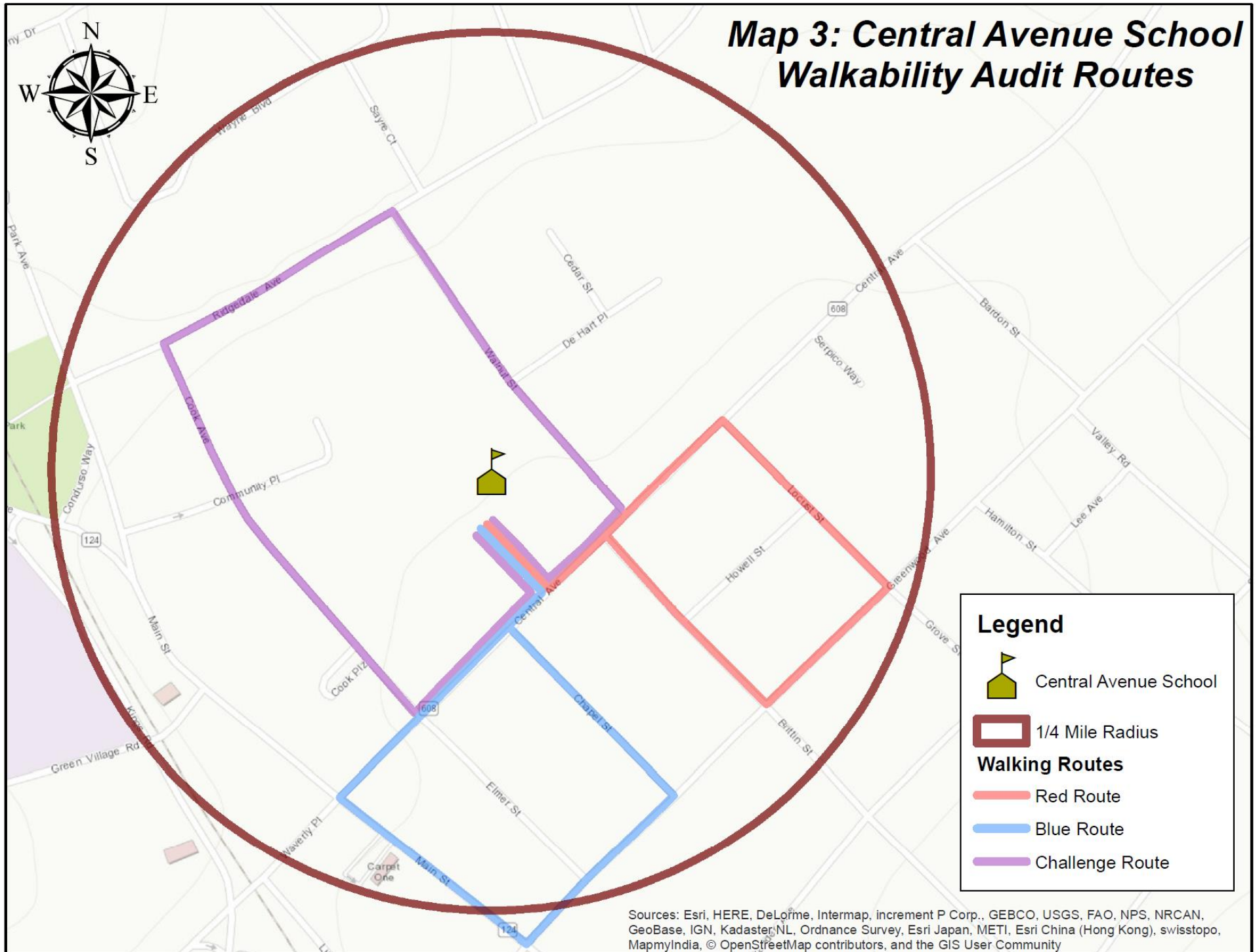


Legend

- | | |
|--------------------|------------------|
| Central Ave School | Crossing Guards |
| Crosswalks | Sidewalks |
| Multi-Directional | Both Sides |
| Mid-Block | One Side |
| Standard | Path/Trail |
| Faded | Mile Radius |
| | Town Border |



Map 3: Central Avenue School Walkability Audit Routes



**Sponsored by the New Jersey Department of Transportation with funding from
the Federal Highway Administration**



NEW JERSEY
Safe Routes to School



TransOptions

**2 Ridgedale Avenue, Suite 200
Cedar Knolls, NJ 07927**

P: (973) 267-7600 F: (973) 267-6209

www.transoptions.org

