McKinley Avenue Campus Schools:

R.L. Meinders Primary Learning Center McKinley Avenue Elementary School Stafford Intermediate School



Stafford Township, NJ **School Travel Plan** September 2020

Prepared by Greater Mercer TMA











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Introduction

Stafford Township is located in Ocean County, NJ, and covers an area of nearly 55 square miles. It is the gateway to the Long Beach Island (LBI) resort communities. State Route 72 traverses Stafford Township and leads to the Manahawkin Bay Bridge. This bridge crosses Barnegat Bay and is the only connection between LBI and the mainland. The Garden State Parkway also crosses through Stafford Township, with Exit 63 connecting to State Route 72. There are two major 4-lane, high speed highways and one US Highway going through Stafford Township. These major highways have separated the residential communities of Stafford Township into distinct sections, and connecting from one residential section to another on foot or by bike is often challenging and sometimes dangerous.

According to the 2010 Census, Stafford Township had 26,535 residents. Manahawkin is the largest community within Stafford Township, with a population of approximately 2,400. Main Street in Manahawkin is US Route 9.

The township's population really began to grow in the 1980s, when several new developments including, Colony Lakes, an expansion of Beach Haven West, and a transition for Ocean Acres, that went from being a summer homes community into a development of year-round single-family homes.

At the intersection of Main Street/US Route 9 and State Route 72 is the A. Paul King County Park, adjacent to Manahawkin Lake with a small swimming beach, a playground, fishing facilities, and a picnic pavilion. The park hosts numerous town events and festivals throughout the year. Also within the township is the 1,642-acre Manahawkin Wildlife Management Area, and the Edwin B. Forsyth National Wildlife Refuge area.

The Stafford Township School District had a total of 2,242 students enrolled in grades Pre-K through sixth grade for the 2018-19 school year. It is part of New Jersey's Interdistrict Public School Choice

program, therefore students may be enrolled in Stafford Township schools without being residents of the township.

The schools and facility at the McKinley Avenue campus, with over two-thirds of the enrollment of the district, are:

Ronald L. Meinders Primary Learning Center,
McKinley Avenue Elementary School,
Stafford Intermediate School, and the
Stafford Township Arts Center ("STAC," a shared school district and community facility)

Greater Mercer Transportation Management Association (TMA), a private transportation non-profit, was able to assess the current pedestrian and cyclist facilities, and propose improvements to increase both safe pedestrian and bicycle access and green commutation to the Primary Learning Center, McKinley Elementary, and Stafford Intermediated Schools.

This school travel plan identifies background and context about the McKinley Avenue school campus, observed pedestrian, cyclist, and traffic conditions, some recommended improvements, and an estimated timeline/cost breakdown.

Goals

Using the "Six E's" of Safe Routes to School (Evaluation, Engineering, Education, Encouragement, Enforcement, Equity), Stafford Township and its school district would like to increase the number of bicycle riders and walkers at these schools.

McKinley Avenue Schools Descriptions

Picture 1: Intermediate School Entrance



This picture shows the Stafford Intermediate School driveway and parent drop-off area, adjacent to the entrance to the STAC.

The address for all three schools, Ronald L. Meinders Primary Learning Center (PLC), McKinley Avenue Elementary School, and Stafford Intermediate School, is 1000 McKinley Avenue, Manahawkin, New Jersey.

According to the Stafford Township School District Handbook 2018-19 and NJDOE statistics for the 2018-19 school year:

Enrollment Grade

Primary Learning Center <u>279 students</u> Kindergarten

McKinley Ave. Elementary 259 students 3rd grade

310 students 4th grade

Subtotal <u>569 students</u>

Stafford Intermediate 287 students 5th grade

358 students 6th grade

Subtotal 645 students

McKinley campus total 1,493 students

The **school hours** for each are as follows:

	School hours	Extended Day	Drop off	<u>Pick up</u>
Primary Learning Center	8:55am – 3:35pm	6:30am -8:55am	PLC main ent.	
		3:30pm - 6:00pm		PLC main ent.
McKinley Ave. Elementary	7:52am – 2:35pm	6:30am-7:52am	PLC main ent.	
		2:30pm -6:00pm		McKinley dr. 23
Stafford Intermediate	7:47am – 2:30pm	6:30am – 7:47am	PLC main ent.	
		2:25pm - 6:00pm		McKinley dr. 23

Current Safe Routes to School Programming

- 2020 "First Steps" Safe Routes to School Municipal Recognition for Stafford Township
- Safety patrol -for grades 2,4,6

Working Group

Member Name	Organization/ Title	Role/ Responsibility	Contact Info
Sean Meehan	Voorhees Transportation Center Project Manager	Key Partner	848- 932-2860 smeehan@ejb.rutgers.edu
Jerry Foster	GMTMA Transportation Safety Educator	Key Partner	609-452-1491 x227 ifoster@gmtma.org
Lisa Serieyssol	GMTMA SRTS Program Coordinator	Key Partner	609-452-1491 x237 serieyssol@gmtma.org
Matthew R. von der Hayden	Stafford- Township Administrator, and Green Team Advisory Comm. Secretary	Key Partner	609-597-1000 x 8516 mvonderhayden@staffordnj.gov
Frank Little	Township Engineer	Key Partner	732-267-2788 flittle@owenlittle.com
George Chidiac	Stafford Township School District Superintendent	School Partner	609-978-5700 x1001 gchidiac@staffordschools.org
Lourdes LaGuardia	Stafford Township School District School Business Administrator	School Partner	609-978-5700 x 1032 llaguardia@staffordschools.org
Linda Morris	Stafford Township School District Transportation Coordinator	School Partner	609-978-5700 x 1062 Imorris@staffordschools.org

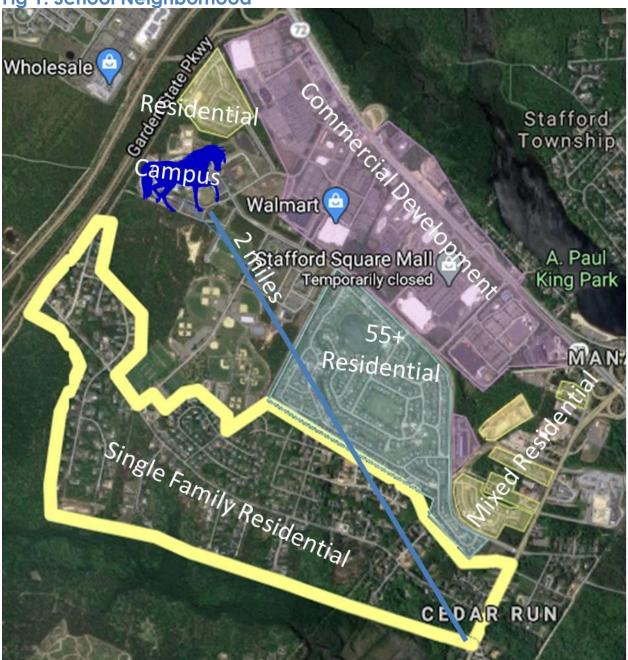
Partnerships

- Stafford Township School District
- Township of Stafford municipal government
- Township of Stafford Green Team Advisory Committee
- Stafford Township Police Department

Existing Conditions

Maps

Fig 1. School Neighborhood



The school campus (Mustang icon) neighborhood is bounded by the Garden State Parkway to the north, Cedar Run to the south, US-9 to the east and SR 72 to the west. Students are permitted to walk or bike up to 2 miles to the campus.

Source: Google Maps

The McKinley Avenue campus (1000 McKinley Avenue, Manahawkin, New Jersey) is bordered by :

Garden State Parkway,

Landings at Manahawkin, a 55+ active adult residential area,

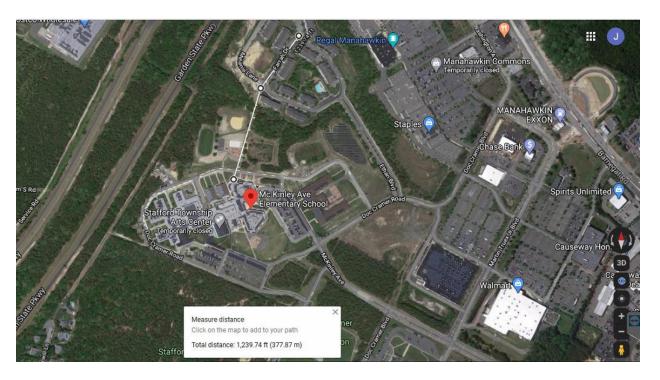
Manahawkin Commons shopping center with stores, restaurants, and movie theatre, accessed from State Route 72, McKinley Avenue, or Doc Cramer Road,

Stafford Township Park (53+ acres),

Doc Cramer Sports Complex, 75+ acres, and

Cedar Run residential neighborhoods, approximately 500 single-family homes and manufactured housing units, beyond the Doc Cramer Sports Complex

Fig 2. School and Community Performing Arts Campus



The campus contains 3 schools and a community arts center, bordered by playgrounds and parks, the Garden State Parkway, and a commercial district to the east. One residential development, the Landings at Manahawkin, is directly across the playground.

Source: Google Maps

Crossing Guard

Within the 2-mile distance to the McKinley Avenue schools there is one crossing guard located at the intersection of McKinley Avenue and Doc Cramer Blvd, the entrance and exit to the McKinley Avenue campus, according to Stafford Township Police.

However the Stafford Township Schools website indicates that there is no crossing guard at the entrance to the McKinley Avenue schools.

Arrival/Parking/Dismissal

McKinley Avenue Elementary and Stafford Intermediate Schools

Each school day between 7:30am and 7:50am about 1,200 students in grades 3rd through 6th arrive at the McKinley Avenue at campus. An additional 28 kindergarten students attend the Primary Learning Center, and they arrive at approximately 8:45am.

According to Principal Margaret Hoffman of McKinley Ave Elementary School, "...during the 2019-20 school year traffic backed up at the 4-way stop sign (McKinley Avenue & Doc Cramer Road), starting at approximately 7:40am as parents (who were dropping off students) from both McKinley and Intermediate began to line up for the driveway loops in front of both schools."

Within the nearly 1,200, about 570 students attend McKinley Ave Elementary School in 3rd and 4th grades. According to the principal during the 2019-20 school year, "approximately 500 students rode the bus, 40-60 students traveled to and from school via car, no students walked, and 1-2 students rode a bike to school only a few days in the early fall and late spring....those students live within a mile radius."

From the Stafford Schools website, Stafford Intermediate and McKinley Ave Elementary parents are reminded that the front loop is a single lane in the mornings, and are asked to be patient, wait their turn in the line-up, and not to attempt to pass another vehicle. For safety students are asked to exit the car from the passenger side only. https://www.staffordschools.org/Page/1553

Dismissal for 3rd through 6th grades (approx. 1,200 children) occurs at 2:30-2:35pm, with an estimated 28 school buses staged for pick up.

According to Principal Hoffman, "...dismissal is less hectic (traffic-wise) because we have many parents who start arriving about 45 minutes before school ends.

There are many before- and after-school enrichment programs offered, as well as an Extended Day child care program. All morning Extended Day sessions meet at Primary Learning Center. The hours offered are 6:30am until the start of school, when participating students are walked to their schools with supervision. Extended Day after-school program ends at 6:00pm.

Student Pick-up:

For pick-up parents are encouraged not to pick up their children from 2:00pm until 2:35pm, and utilization of the bus transportation is encouraged.

Ronald L Meinders Primary Learning Center:

Kindergarten children arrive at approximately 8:45-8:55am.

From the PLC website: "Important Pick Up Procedure: For safety purposes, parents are advised to not pick up their child(ren) between the hours of 3:15 pm and 3:35 pm unless it is for an emergency only. Parents are encouraged to utilize school bus transportation."

February 10, 2020 Walkability Audit

To gather ground-level observations, representatives from Greater Mercer TMA and Stafford Township School District (Superintendent, Transportation Services, and Facilities), and Stafford Township Administrator walked the perimeter of the McKinley Avenue school campus.

Photographs taken on the audit appear in this report under the section, "Recommended Infrastructure Improvements."

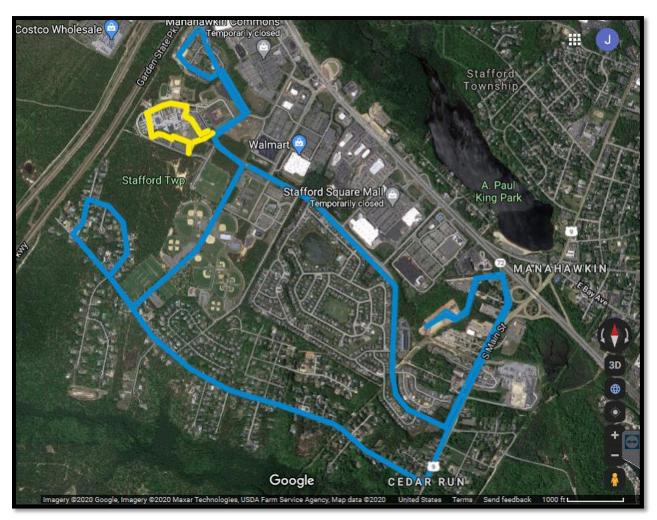
Due to the scale of the district's sending area we drove to nearby neighborhoods to survey walking and biking conditions. See Fig. 3 below.

The entrance/exit drive for McKinley Avenue Schools campus is at the intersection of McKinley Avenue and Doc Cramer Road. Each road near the approach to McKinley Avenue campus has a posted speed limit of 25 mph.

Also located on the campus is the Stafford Township Arts Center (STAC), a state-of-the-art performing arts venue with a seating capacity of 808. Its primary purpose is to serve as a school auditorium for the Stafford Township School District schools and their events. Throughout the calendar year the Stafford Township Board of Education opens the STAC for government and community use (magic shows, dance performances, musical theatre, comedy acts).

The Doc Cramer Sports Complex consists of fields for baseball, softball, football, and soccer, a hockey rink, and tennis courts. Any infrastructure modifications that would increase the walkability and bikeability to the Doc Cramer Sports Complex would have a significant effect on its overall accessibility for the community, due to the number of school-age students who use these facilities.

Fig 3. Walkability Audit Route



The yellow area shows the walking audit route, the blue shows the area toured by automobile.

Source: Google Maps

Walk/ Bike Barriers and Opportunities

The entrance to the McKinley Avenue campus is at the intersection of McKinley Avenue and Doc Cramer Boulevard. While the catchment area covers all of Stafford Township, the residential area to the south and east of the campus, known as Cedar Run, provides the safest potential routes to walk or bike to the McKinley Avenue schools.



On McKinley Avenue, at approximately 300 feet before the intersection with Doc Cramer Blvd, the speed limit is posted as "School Speed Limit 25 mph When Children Are Present." Another sign at approximately 500 feet prior to the intersection reads, "Speed Limit Strictly Enforced."



Doc Cramer Boulevard/Road, begins at Washington Avenue, and via Roosevelt Blvd, connects to State Route 72. At the beginning of Doc Cramer Blvd, within the area of the shopping centers to the left and right, there is one sign, "Speed Limit 25 mph." This is about one-third mile from the entrance to the McKinley Avenue campus. The road changes name to Doc Cramer Road. There is no "Slow School Zone" sign or pavement marking on Doc Cramer Road on the approach to the McKinley Avenue schools campus.



In the Landings at Manahawkin residential area, from the intersection of Melanie Lane and Farrah Drive, there is access to a path into woods and a crossing over a small stream, leading to the baseball field, basketball court, running track, and playground of the schools of the McKinley Avenue campus.

Stocum S. Road This 1000-foot portion of Stocum Road runs between the Stafford Township Park, the Doc Cramer Disc Golf Course (DGC), and the Doc Cramer Park Expansion and Southern Youth Football fields.

From the point where Stocum S. Road intersects Doc Cramer Road, which encircles the McKinley Avenue campus, there are sidepaths through the Doc Cramer Sports Complex and along the northern/western side of Doc Cramer Boulevard for 0.6 miles, though the sidepath stops just under 0.1 mile to Oak Avenue (property owned by Stafford Township). There are painted crosswalks at the entrances/exits to the parking lots of the sports complex. Along Oak Avenue and its neighboring streets to the east, west and south there are over 200 single family homes.

Oak Avenue at US Route 9 is a distance of 2 miles from the McKinley Avenue campus. The speed limit at the beginning of Oak Avenue is 25 mph. There are sidewalks sporadically, on the north side of the street, and there is no shoulder in either direction.

McKinley Avenue is an alternate route from Oak Avenue and US Rt 9 to the McKinley Avenue campus. From Oak Avenue one would travel north on US Route 9 for 0.2 miles to McKinley Avenue, however sidewalks are again sporadic and the posted speed limit on that portion of US Rt 9 is 45 mph. At McKinley Avenue there is a sidewalk on the south side of the road. McKinley Avenue at US Rt 9 is a four-lane road with a speed limit of 45 mph.

Within 400 feet of the McKinley Avenue and US Route 9 intersection there are sidewalks on both sides of McKinley Avenue. At the intersection of Paul Farms Road is Pine Crest Village, an all-ages manufactured housing community, with 75 affordable 2-bedroom and 3-bedroom homes. Along McKinley Avenue there are no marked crosswalks or stop lines at Pine Grove Avenue or at either end of Oak Ridge Lane, and no marked crosswalks at either access to McKinley Plaza. At the intersections with Martin Truex Jr. Blvd, Captain Randolph Blvd, and General Grier Drive the crosswalk pavement markings appear to be badly faded.

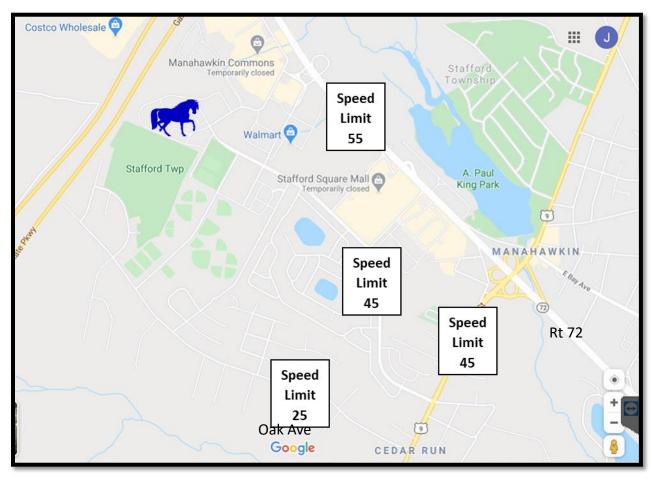
There is a sign, "School- Speed Limit 25 mph When Children are Present," near the intersection with Bishop Avenue, where McKinley Avenue remains a four-lane road, with a painted median. From that intersection heading toward Doc Cramer Road the road width begins to narrow, first with a grass median, then a painted one, and gradually becomes a two-lane road with wide shoulders.

Within the Cedar Run area and within the two-mile radius to McKinley Avenue campus there is Cornerstone at Grassy Hollow, located at 200 Back Road. There are 60 newly built 100% affordable family one-, two-, and three-bedroom rentals, with an additional 34 units under construction. Residents of Cornerstone can access McKinley Avenue and McKinley Plaza via the proposed Power Line Trail & connectors (see page 28).

Beyond the scope of School Travel Plans: State Route 72 presents pedestrians and the bicyclists with the most dangerous conditions and is the site of the most frequent and the most severe crashes (Fig. 5). Safe biking and walking facilities should be prioritized along this corridor.

Finally, the **Garden State Parkway** presents the single largest barrier to biking and walking connectivity in the Township. A bike and pedestrian connection across the Garden State Parkway may be implemented between Stafford Park Shopping Mall on the west side to Manahawkin Commons Shopping Mall on the east side, like the overpass at the Brick Park and Ride Commuter Parking Lot near Burnt Tavern Road. This would improve connectivity between the most densely populated neighborhoods of the Township with the largest school population at the McKinley Schools campus.

Fig 4. Area Speed Limits



Source: Google Maps

The schools campus is approached by McKinley Ave, posted 45mph speed limit or by Doc Cramer Road, posted speed limit 25 mph. All other area roads are 25mph until you get to the arterials, Rt 9 and Rt 72, also high speed roads.

Travel Tallies

Not available at time of reporting. To be conducted at a later date. Travel Tallies were not collected prior to the pandemic and if collected during the pandemic would not provide valid baseline data.

Table 1. Travel Tallies

School Policies

Transportation

From Stafford Township Transportation Coordinator, Mrs. Linda Morris: "Your Precious Cargo Rests in Our Capable Hands: That's the motto of the Transportation Department here in Stafford Township. Concern for safety and security are the two most prominent attributes of our staff. Our professional staff of 41 school bus drivers, attendants, mechanics, and secretaries team up to provide the safest, efficient, and most economical home-school transportation to over 2400 resident students in 31 vehicles traveling over 500,000 miles per year."

A list of Hazardous Roadways and those streets where students are not to cross in order to board or disembark from a school bus, can be found below. None of the streets listed are located in Cedar Run.

- ✓ No students are to cross the following streets:
 - Bay Avenue
 - Breakers Drive
 - Cedar Bridge Road, both in Warren Grove and Manahawkin.
 - Hilliard Blvd.
 - Lighthouse Drive
 - Mermaid Drive (Points south of the Mermaid/Breakers intersection). Students may cross if their bus stop is at or north of the Mermaid/Breakers Intersection.
 - Millcreek Road
 - Nautilus Drive
 - Neptune Drive
 - Route 539
 - Route 9
 - Route 72

Bus Rules and Regulations

From the Stafford Township School District Handbook 2018-19, page 28,

"Our [school bus] drivers have the tremendous responsibility of transporting 2,500 students daily. The... Bus Rules Handbook is sent home with students on the first day of school...It is extremely important for parents and students to know and adhere to the handbook's rules and regulations.

To avoid dangerous situations and accidents, students must follow bus safety rules and procedures. Parents should review their school's specific bus rules and procedures with their children. Then, make sure the children understand these general bus safety principles...."

Stafford Township Schools are part of the State Department of Education's Interdistrict Public School Choice Program. A student enrolled through the Choice program, who lives within 20 miles of the schools, is eligible for transportation.

Bike or Walk to School policy

From the Stafford Township School District website, staffordschools.org, Resources for Parents/Guardians, there is a student permission form for Bikers and Walkers, dated 2018:

"...The Stafford Township Board of Education will permit the use of bicycles and walking to and from school by pupils in grades three through six only within a two-mile radius of pupil's home and school ..."

Student Permission Form for Bikers and Walkers

From the Stafford Township School District Handbook 2018-19, page 28, "Safety and Security -Bikers and Walkers:

"...For students living close enough to the school to ride their bikes (in grades five and six) or walk, the following conditions must be adhered to:

- 1. A written permission statement from the parent/guardian must be submitted to the school's Principal (link below)
- 2. Bikers must wear required safety equipment and follow all rules set forth in Board of Education Regulation –Student Use of Vehicles on School Grounds.*
- 3. Students are expected to arrive at school on time. Lateness may result in suspension of this privilege.
- 4. Students will wait until all buses have left before they are dismissed.
- 5. Any witnessed reports of unsafe riding may result in loss of privilege."

Also skateboards, scooters, and other vehicles that do not meet the definition of a bicycle are not permitted.

*Regulation#5514:

Student Use of Vehicles on School Grounds

Safety Patrol

For students in grades 2, 4, and 6:

Stafford Township Board of Education Policy #5860: Safety Patrol Policy

Stafford Township Board of Education Regulation #5860: Rules for Safety Patrol Members

From the Principal of McKinley Avenue Elementary School:

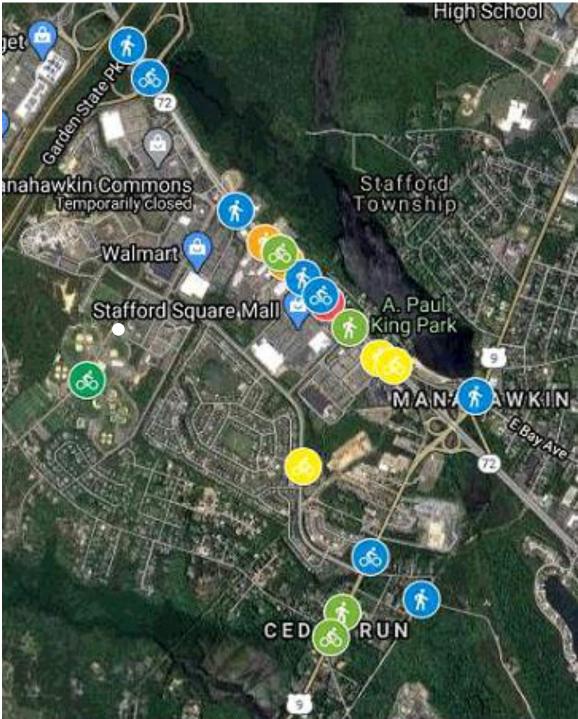
"Safety patrol students were trained by a staff member who uses his experience with peer mediation---- approximately 24 fourth grade students are involved in the program---those students are stationed in the hallways and along the sidewalks leading to the buses to encourage students to exit the building in a safe manner----safety patrol have also been used in the spring to take incoming 3rd graders on a mini tour of the building with their 2nd grade classes.

Safe Routes to School-Disabled Student Inclusion

- Maintenance of existing ADA-compliant pads and installation of additional pads to sidewalks to enable access during Walk to School events
- Adjust safety presentation styles for those with ADHD and other learning obstacles
- During schoolwide walk audit events, tailor routes for special needs students
- Train the Trainers approach- Pass along safety education to the aides who have to tailor educational needs based on individual student plans
- Look into funding sources for purchasing specially-tailored bicycles for students with disabilities.

Crash Data

Fig. 5 Pedestrian and Cyclist Crash Data 2006-2016 (source – Numetric)



Red= Fatality, Orange=Serious Injury, Yellow= Moderate Injury, Blue= Pain, Green=No apparent injury 2006-2016.

Source: NJDHTS

A full list of Stafford Twp cyclist and pedestrian crashes from 2006-2016 is listed in Appendix A.

Identification of Problem Areas

Please see Figure 3 for the route map of the perimeter walk audit conducted at schools of the McKinley Avenue campus on February 10, 2020. In addition to the walk audit, we conducted a survey by car of surrounding neighborhoods, in order to get a better understanding of the local areas, and to identify improvements for future walking and biking to schools at McKinley Avenue campus.

Parent and administrative input and conversation would provide valuable input in determining priority areas.

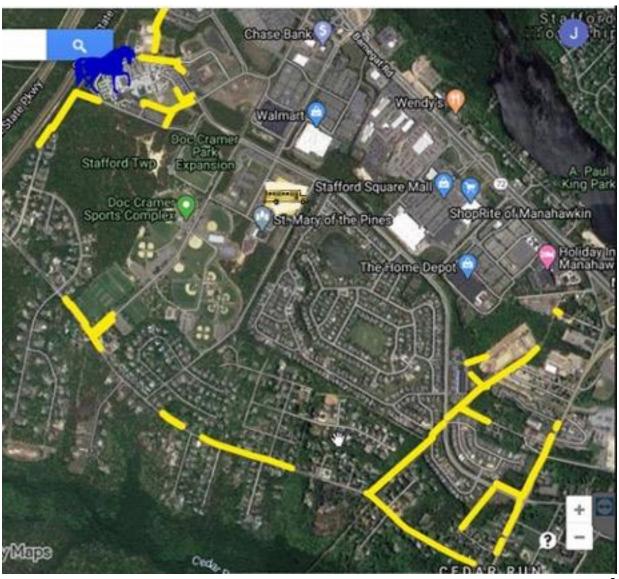
Recommended Infrastructure Improvements

In general:

- Greater Mercer TMA would like to see more students walk or bike to school. This could be achieved through street improvements that increase safety.
- Road and lane widths are wide which encourage speeding; therefore traffic-calming measures should be prioritized.
- Host Walk and Bike to School events and work on Safe Routes to School Recognition.

The following pages contain infrastructure recommendations. Photographs of current conditions precede a description of suggested improvements.

Fig. 6 Infrastructure Improvements Overview

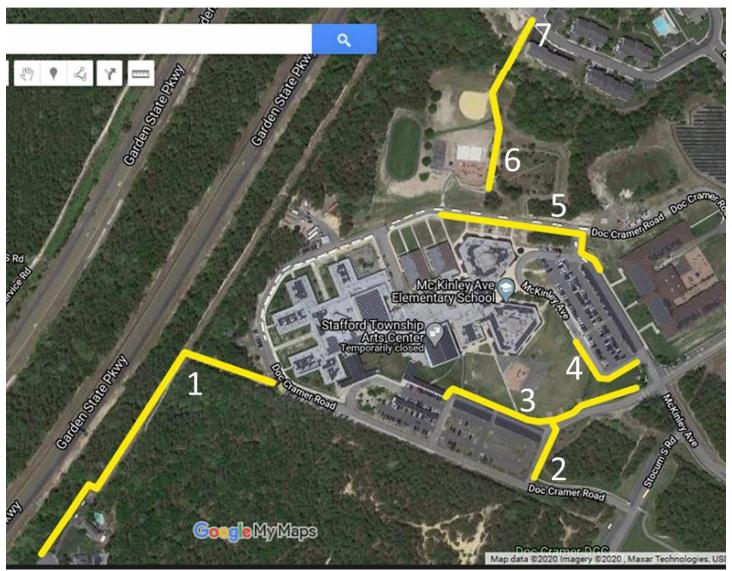


Source: Google Map-

Improvements (yellow) are described separately for those around and within the school campus area (blue mustang icon), and those in the surrounding neighborhood walking area including St. Mary of the Pines School (school bus icon), bounded by the GSP, SR 72, Rt 9 and Oak Ave.

Proposed School Campus Area Improvements

Fig. 7 Overview of McKinley Campus Area Proposed Improvements



Source: Google Maps

Proposed walking improvements include direct access to the Landings at Manahawkin residential development (7), through the playground (6), as well as to the homes on Whippoorwill Lane and neighboring streets (1), which are otherwise close to school but without a more direct route. Internal campus improvements allow access from the campus entrance (3 and 4) and from Doc Cramer Road (2) to the schools without having to walk in the road.



Proposed improvements (2 on map) would extend the sidewalk to the right to connect to the campus entrance. ADA-compliant truncated dome pads would be added to curb cuts.



Another proposed sidewalk (3 on map) would connect the campus entrance to the STAC performing arts center and the Intermediate School. ADA-compliant truncated dome pads would be incorporated into curb cuts.



A sidewalk (5 on map) along the back driveway would improve walking between schools, as well as connect the playground and further to the Landings at Manahawkin, see next picture.



A sidewalk (also 5 on map) from the back of the McKinley Ave Elementary School to the PLC Kindergarten would enable walking throughout the campus.



Extending the sidewalk (4 on map) from the elementary school to the campus entrance would avoid crossing through the multiple aisles of parking. ADA-compliant truncated dome pads would be incorporated into curb cuts.



The picture above shows the playground looking toward The Landings at Manahawkin (6 on map).



The picture above (6 on map) is from the gate at the Landings at Manahawkin looking toward the playground – a sidewalk addition would be the responsibility of the developer, see below from the street to the gate (7 on map).



Proposed Neighborhood Improvements

Proposed neighborhood improvements include filling in sidewalk gaps on Oak Avenue, Doc Cramer Blvd, McKinley Avenue and Route 9. Trails are proposed along the powerline to connect Oak Avenue to Cornerstone at Grassy Hollow, the new affordable housing development on Back Road, and connectors from Lange Drive, Bolton Lane, Cedar Run Apartments and the McKinley Plaza commercial development. A trail might also connect Cedar Hill Drive to McKinley Ave.

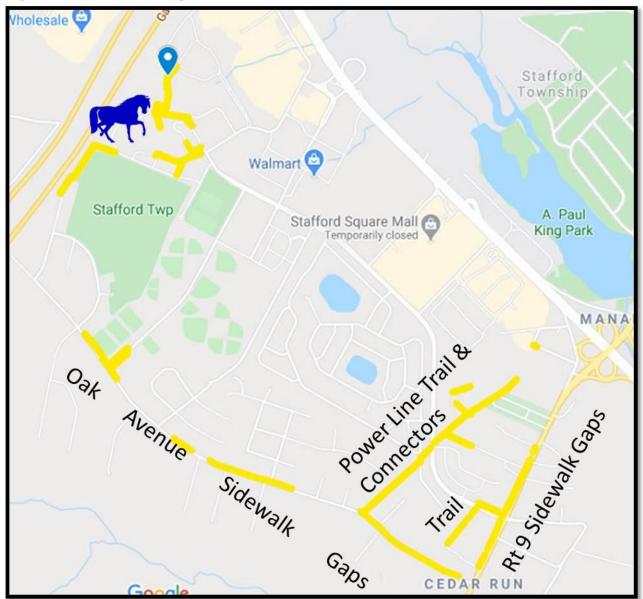


Fig. 8 Proposed Neighborhood Improvements

Source: Google Maps



Rt 9 sidewalk gaps - note the "goat path" along Rt 9 to McKinley Ave, to be filled with sidewalks.



Oak Ave sidewalk gaps at Doc Cramer Blvd

Goals and Actions:

This plan of action is intended to increase safety for students on their walk to and from school and when appropriate, encourage more students to walk. The table below identifies those actions, a responsible party for implementing them, a time frame, and a level of cost. Many actions identified as "short-term" and "low cost" can make a big difference in a shorter time frame and can be accomplished with the help of local partners. This "low-hanging fruit" can be prioritized for greater impact in a shorter period of time. However, traffic calming measures are key items to address allowing students more time to cross and greater visibility (larger driver field of vision at slow speeds).

Cost estimates are for planning purposes only – a professional engineer should prepare the actual estimates used for grant application. These estimates were prepared using the SRTS Implementation Cost sheet prepared in 2020 by NV5 to support the grant application process.¹

Engineering			
Action	Responsibility	Time Frame	Cost Estimates

¹ https://www.saferoutesnj.org/wp-content/uploads/2020/08/2020-Design-Treatment-Typical-Costs.pdf

"Slow School Zone" improve signage and add pavement markings	Township	Short term	\$1,122 ea.
Campus internal sidewalk or path additions	School Board	Medium Term	\$60/ft * 2257 ft = \$135,420
ADA truncated domes at multiple sidewalk junctions within campus	School Board	Short Term	\$250 ea.
Pedestrian crosswalk and stop line to be painted on Pine Grove Avenue at McKinley Avenue	Township	Short Term	\$1,656
(2) Pedestrian crosswalks and (2) stop lines to be painted on Oak Ridge Lane at both intersections with McKinley Ave.	Township	Short Term	\$2,610
(2)Pedestrian crosswalks to be painted and (2) stop lines to be refreshed at the entrances/exits to McKinley Plaza shopping center on McKinley Avenue	Township	Short Term	\$1,733
Pedestrian crosswalk paint needs refreshing at McKinley Ave and Martin Truex Jr. Blvd	Township	Short Term	\$4,793
Pedestrian crosswalk paint needs refreshing at McKinley Ave and Captain Randolph Blvd	Township	Short Term	\$4,320
Pedestrian crosswalk paint needs refreshing at McKinley Ave and General Grier Drive	Township	Short Term	\$4,240
Landings at Manahawkin to playground –sidewalk	Landings at Manahawkin	Short Term	\$60/ft * 200 ft = \$12,000
Whippoorwill Ln to McKinley Ave campus -stone path	Township	Medium Term	\$60/ft * 1181 ft = \$70,860
Oak Avenue and Doc Cramer Blvd - asphalt path additions	Township	Medium Term	\$95/ft * 1483 ft = \$140,885
Oak Avenue sidewalks	Township	Medium Term	\$60/ft * 3268 ft = \$196,080
Rt 9 sidewalks	Township	Medium Term	\$60/ft * 1589 ft =

			\$95,340
McKinley Avenue sidewalks	Township	Medium Term	\$60/ft * 367
Wickiniey Avenue sidewarks	Township	Mediani renn	ft = \$22,020
Back Rd – McKinley – Oak Trail and			\$60/ft *
connectors (Atlantic City Electric) –	Township	Long Term	3870 ft =
stone dust			\$232,200
Codor Dun McKinlov Trail stone			\$60/ft *
Cedar Run – McKinley Trail – stone	Township	Long Term	650ft =
dust			\$39,000

Education			
Action	Responsibility	Time Frame	Cost
Educate students, family members, bus drivers, and school employees about drop-off/ pick up zones. Make sure everyone knows the best way to keep students safe and to quickly dismiss students from school.	School, School District	Short Term / Ongoing	Low
Increase community outreach about the health benefits of walking and biking to school.	School, PTOs	Short Term	Low
Conduct community wide outreach about Safe Routes to School actions such as walking and biking safety.	School, GMTMA	Short Term/ Ongoing	Low
Establish a program to encourage students to walk and/or bike to school. Examples: Golden Sneaker Award, Walking Wednesday, Walking School Bus, Bike Train	School, GMTMA	Short Term/ Ongoing	Low
Educate community and responsible parties about snow removal on sidewalks near schools.	Public Works	Short Term/ Ongoing	Low

Encouragement				
Action Responsibility Time Frame Cost				

Establish main walking routes, safety corridors, walking school buses – safety in numbers.	School, PTOs, GMTMA, Community Groups	Ongoing	Low
Conduct student and parent surveys to see what actions and rewards could encourage them to walk to school more – and feel safer walking to school.	School, PTOs, GMTMA	Short Term	Low
Conduct Street Smart safety campaigns.	Police, GMTMA, Township	Ongoing	Low / Medium

Enforcement			
Action	Responsibility	Time Frame	Cost
Enforce speed limits (in general and specifically in school zones), pedestrians walking safely, drivers watching for pedestrians especially at times when students are going to/from school.	Police	Ongoing	Low / Medium
Add more crossing guards to improve the safety of walking or biking to school	Police	Ongoing	Low / Medium
Enforce motorist compliance with crossing guard instructions	Police	Ongoing	Low / Medium
Enforce parking laws	Police	Ongoing	Low / Medium

Evaluation			
Action	Responsibility	Time Frame	Cost
Conduct student travel tallies on annual basis	School	Annual	Low

Conduct bikeability audit of walking area	School, Township, GMTMA	Short Term	Low
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^{*}Explanation of funding- Greater Mercer TMA is funded through the New Jersey Department of Transportation to offer advice and assistance in starting Safe Routes to School programs and projects. Greater Mercer TMA can help with walk and bike to school events, walking school bus programs, youth bicycle and pedestrian education, school travel plans, and surveys that provide evaluation and feedback on local programs.

Evaluation

Task Force Timeline

Greater Mercer TMA will be in discussion with participating organizations about implementation progress.

Conclusions

Residential areas with students are limited in the adjacent areas of the schools campus, but biking and walking improvements within the campus will benefit all students, while proposed improvements in the surrounding neighborhood will encourage biking and walking to school, parks, and shopping.

The Covid-19 pandemic presents significant challenges to the education community, including maintaining social distance inside the buildings and when getting to and from school by bus. For those students whose parents may not feel comfortable sending their children on the bus, safe biking and walking improvements may provide acceptable social distancing as well as improved cost and convenience, compared to driving students to school. The district may want to consider encouraging biking and walking to school as an option to address this concern. While the pandemic is a rare occurrence, the duration of its impact on our way of life could be for several years. In any case it does highlight the need for resiliency planning that provides infrastructure to accommodate all modes of travel safely, including walking and biking.

Appendix A: Stafford Twp Pedestrian and Cyclist Crashes from New Jersey Department of Traffic and Highway Safety, 2006-2016

Crash ID	Date	Crash Type	Crash Location
6908053	January 11, 2006	Pedestrian	OCEAN COUNTY 50
6908448	March 2, 2006	Pedestrian	GARDEN STATE PARKWAY
6908054	April 1, 2006	Pedalcyclist	US 9
6908149	May 16, 2006	Pedestrian	EAST BAY AVENUE
6908240	September 23, 2006	Pedestrian	NJ 72
6908281	October 11, 2006	Pedestrian	ROUTE 539
6908310	October 27, 2006	Pedalcyclist	NAUTILUS DRIVE
7212495	January 12, 2007	Pedestrian	OCEAN COUNTY 50
7212497	January 14, 2007	Pedalcyclist	NJ 72
7212574	March 1, 2007	Pedestrian	NAUTILUS DR
7212574	March 1, 2007	Pedestrian	NAUTILUS DR
7212599	March 21, 2007	Pedestrian	NJ 72

7212605	March 24, 2007	Pedestrian	733 ROUTE 72 WEST
7212640	April 18, 2007	Pedestrian	25 ROUTE 9 SOUTH
7212670	May 5, 2007	Pedestrian	626 ROUTE 72 EAST
7212704	May 20, 2007	Pedalcyclist	NJ 72
7212468	June 28, 2007	Pedalcyclist	NJ 72
7212813	July 3, 2007	Pedestrian	NAUTILUS DRIVE
7212815	July 5, 2007	Pedestrian	591 ROUTE 72 WEST
7212816	July 6, 2007	Pedestrian	297 ROUTE 72 WEST
7212872	July 27, 2007	Pedalcyclist	NJ 72
7212960	August 24, 2007	Pedalcyclist	FORECASTLE ROAD
7212971	August 28, 2007	Pedestrian	525 ROUTE 72 WEST
7212467	October 24, 2007	Pedestrian	US 9
7213117	November 9, 2007	Pedestrian	FLOAT AVENUE
7213185	December 12, 2007	Pedestrian	NAUTILUS DRIVE
7213219	December 26, 2007	Pedalcyclist	WEST BAY AVENUE
7517727	February 1, 2008	Pedalcyclist	OCEAN COUNTY 50
7517913	May 23, 2008	Pedestrian	MILL CREEK RD
7517936	June 2, 2008	Pedestrian	EAST BAY AVENUE
7517960	June 15, 2008	Pedestrian	245 STAFFORD PARK BOULEVARD
7518170	September 1, 2008	Pedestrian	DANIELS DRIVE
7518239	October 10, 2008	Pedestrian	OCEAN COUNTY 111
7518343	December 12, 2008	Pedestrian	SHOP RITE-297 ROUTE 72 WEST
7818288	January 22, 2009	Pedestrian	209 STAFFORD PARK BOULEVARD
7818293	January 27, 2009	Pedestrian	EXXON-555 ROUTE 72 WEST
7818306	January 31, 2009	Pedestrian	WALMART-525 ROUTE 72 WEST
7818381	March 26, 2009	Pedestrian	733 ROUTE 72 WEST
7818461	May 11, 2009	Pedestrian	600 ROUTE 9 NORTH-SRHS 9-10
7818483	May 20, 2009	Pedestrian	1364 ROUTE 72 WEST-STAFFORD
7818497	May 25, 2009	Pedalcyclist	NJ 72
7818556	June 17, 2009	Pedalcyclist	US 9
7818576	June 26, 2009	Pedalcyclist	MANAHAWKIN POST OFFICE 525
7818597	July 3, 2009	Pedalcyclist	MCKINLEY AVENUE
7818625	July 17, 2009	Pedalcyclist	MORRIS BLVD
7818628	July 18, 2009	Pedestrian	NJ 72
7818656	July 30, 2009	Pedalcyclist	MERMAID DRIVE
7818673	August 5, 2009	Pedestrian	NJ 72
7818716	August 18, 2009	Pedestrian	OCEAN COUNTY 50
7818779	September 14, 2009	Pedalcyclist	EAST BAY AVENUE
7818886	November 9, 2009	Pedestrian	NJ 72
7818901	November 19, 2009	Pedestrian	NJ 72
7818934	December 6, 2009	Pedalcyclist	NJ 72
3537778	January 19, 2010	Pedestrian	OCEAN COUNTY 105
2527704	000		
3537781	January 20, 2010	Pedestrian	SPINNAKER AVENUE

3537906 April 6, 2010 Pedestri	ian BROADWAY BOUND DANCE
3537911 April 7, 2010 Pedestri	ian EXXON-555 ROUTE 72 WEST
3538031 May 28, 2010 Pedalcy	clist BJ'S EXIT/ENTRANCE
3538140 July 2, 2010 Pedestri	ian OCEAN COUNTY 111
3538713 July 5, 2010 Pedalcy	clist GARDEN STATE PARKWAY
3538223 July 29, 2010 Pedalcy	clist OCEAN COUNTY 50
3538234 August 1, 2010 Pedestri	ian 1504 ROUTE 72 WEST
3538349 September 5, 2010 Pedestri	ian STAFFORD SQUARE-297 ROUTE 72
3538379 September 18, 2010 Pedestri	ian LIGHTHOUSE DR
3538385 September 20, 2010 Pedalcy	clist ATLANTIS AVE
3538439 October 13, 2010 Pedalcy	clist EAST BAY AVENUE
3538519 November 15, 2010 Pedestri	ian OXYCOCUS ROAD
3538520 November 15, 2010 Pedestri	ian SOUTHERN REGIONAL HS 9-10-600
3832867 February 3, 2011 Pedestri	ian WALMART PARKING LOT-525
3833002 April 23, 2011 Pedestri	ian OCEAN COUNTY 605
3833068 May 26, 2011 Pedestri	ian STAFFORD PARK BOULEVARD
3833094 June 4, 2011 Pedalcy	clist OCEAN COUNTY 50
3833098 June 6, 2011 Pedalcy	clist NJ 72
3833102 June 6, 2011 Pedalcy	clist NJ 72
3833172 July 3, 2011 Pedestri	ian BJS WHOLESALE CLUB-321 MARTIN
3833196 July 10, 2011 Pedalcy	clist MILL CREEK ROAD
3833196 July 10, 2011 Pedalcy	clist MILL CREEK ROAD
3833284 August 7, 2011 Pedestri	ian SHOP RITE - 297 ROUTE 72 WEST
3833606 September 21, 2011 Pedestri	ian MERMAID DR
3833407 September 26, 2011 Pedalcy	clist EAST BAY AVENUE
4119367 January 4, 2012 Pedestri	ian 321 MARTIN TRUEX JR BOULEVARD
4119447 February 27, 2012 Pedestri	ian RIDGEWAY AVE
4119519 March 29, 2012 Pedestri	ian NJ 72
4119540 April 10, 2012 Pedestri	ian 245 STAFFORD PK BLVD (COSTCO
4119654 June 5, 2012 Pedalcy	clist DOC CRAMEL BALL FIELDS-430 DOC
4119656 June 6, 2012 Pedalcy	clist US 9
4119687 June 15, 2012 Pedalcy	clist 209 STAFFORD PARK BOULEVARD
4119841 July 5, 2012 Pedestri	ian 43 HONEYSUCKLE DRIVE
4119890 July 21, 2012 Pedalcy	clist US 9
4119892 July 22, 2012 Pedalcy	clist STAFFORD PARK BOULEVARD
4119984 August 21, 2012 Pedestri	ian 489 NAUTILUS DRIVE
4119985 August 22, 2012 Pedestri	ian NJ 72
4120033 September 11, 2012 Pedestri	ian 525 ROUTE 72 WEST
4120104 October 10, 2012 Pedestri	ian 309 EAST BAY AVENUE
4120196 November 17, 2012 Pedalcy	clist US 9
4120249 December 11, 2012 Pedestri	224 MARTIN TRUEV IR ROUGEVARD
,	ian 321 MARTIN TRUEX JR BOULEVARD
4120279 December 24, 2012 Pedestri	
·	ian 297 ROUTE 72 WEST

4403974 February 6, 2013 Pedatyrian US 9 4403975 February 6, 2013 Pedestrian 1140 ROUTE 72 WEST 4404008 April 5, 2013 Pedatyrian 601 WASHINGTON AVENUE 4404068 April 5, 2013 Pedalcyclist EAST BAY AVENUE 4404068 April 5, 2013 Pedalcyclist EAST BAY AVENUE 4404179 May 26, 2013 Pedalcyclist EAST BAY AVENUE 4404179 May 26, 2013 Pedalcyclist NJ 72 4404475 August 21, 2013 Pedalcyclist OCEAN COUNTY 50 4404521 September 5, 2013 Pedestrian 321 MARTIN TRUEX IR BLVD 4404744 December 4, 2013 Pedestrian 321 MARTIN TRUEX IR BLVD 4404744 December 4, 2013 Pedestrian 297 ROUTE 72 WEST 8086641 April 5, 2014 Pedestrian 297 ROUTE 72 WEST 80866730 May 17, 2014 Pedestrian 297 ROUTE 72 WEST 8086730 May 17, 2014 Pedestrian NJ HIGHWAY 72 8086738 May 21, 2014 Pedestrian NJ HIGHWAY 72 8086738 May 27, 2014 Pedestrian NJ 12 8128169 July 5, 2014 Pedalcyclist MILL CREEK ROAD 8128169 July 5, 2014 Pedalcyclist OCEAN COUNTY 50 812830275 January 7, 2015 Pedalcyclist OCEAN COUNTY 50 81380275 January 7, 2015 Pedalcyclist OCEAN COUNTY 50 11830372 April 11, 2015 Pedalcyclist STAFFORD PARK BOULEVARD 11830536 July 13, 2015 Pedalcyclist OCEAN COUNTY 105 1183074 October 11, 2015 Pedalcyclist OCEAN COUNTY 105 1183074 October 11, 2015 Pedalcyclist OCEAN COUNTY 105 1183075 January 7, 2016 Pedestrian MAYETTA LANDING ROAD 14874699 June 9, 2016 Pedestrian MAYETTA LANDING ROAD 14874988 December 7, 2016 Pedestrian MAYETTA LANDING ROAD 14874989 October 14, 2016 Pedestrian MAYETTA LANDING ROAD 14874998 October 14, 2016 Pedestrian MAYETTA LANDING ROAD 14874998 December 7, 2016 Pedestrian MAYETTA LANDING ROAD 14874998 October 14, 2016 Pedestrian MAYETTA LANDING ROAD 14874998 October 14, 2016 Pedestrian MAYETTA LANDING ROAD 14874988 December 7, 2017				T
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JAJAAA January 10, 2013 Fedestrian 23/ ROUTE /2 WEST	9752534	January 18, 2019	Pedestrian	297 ROUTE 72 WEST
9952192 July 9, 2019 Pedestrian 601 ROUTE 72 EAST	9952192	July 9, 2019	Pedestrian	601 ROUTE 72 EAST

9948432	July 10, 2019	Pedalcyclist	BUCCANEER LN
10018433	July 27, 2019	Pedestrian	MURIEL DR
10065024	August 31, 2019	Pedalcyclist	NJ 72
10097596	October 10, 2019	Pedalcyclist	NJ 72
10139242	December 18, 2019	Pedalcyclist	MERMAID DR

Appendix B: FHWA Proven Safety Countermeasures

Appendix B: FHWA Proven Safety Countermeasures

The Federal Highway Administration is promoting safety through proven roadway design features.

For a full list, see: https://safety.fhwa.dot.gov/provencountermeasures/

The following local examples show bicycle and pedestrian safety features from the list of countermeasures and should be considered when analyzing traffic safety solutions.

Refuge Islands

Link: https://safety.fhwa.dot.gov/provencountermeasures/ped_medians/





- · Reduces pedestrian crossing distance
- Greater pedestrian visibility
- Narrower lanes reduces driver speeding
- · Flashing beacon alerts drivers
- · Islands can be landscaped

Clarksville Rd, CR638, West Windsor NJ

Roundabouts

Link: https://safety.fhwa.dot.gov/provencountermeasures/roundabouts/





- Raised splitter island raised to form a pedestrian refuge
 - · Reduction in severe crashes
 - Urban, rural, suburban options

George Dye Rd and Estates Blvd, Hamilton NJ

Hybrid Pedestrian Beacon (HAWK Signal)

Link:

https://safety.fhwa.dot.gov/provencountermeasures/ped hybrid beacon/





- Pedestrians can cross midblock or uncontrolled intersections
- Pedestrians activate the signal
- Motorists stop completely

State Road 35, Seaside Heights NJ

Road Diet

Link: https://safety.fhwa.dot.gov/provencountermeasures/road diets/





- · Reconfigure four general travel lanes:
 - Two general travel
 - o Center turn lane
 - o Bike lanes

West Windsor, NJ

Walkways

Link: https://safety.fhwa.dot.gov/provencountermeasures/walkways/





- Shared-use paths
- Streetscaping opportunities

Nassau Street, Princeton NJ

Leading Pedestrian Interval

Link: https://safety.fhwa.dot.gov/provencountermeasures/lead_ped_int/





Pedestrian given time prior to motorist green signal

Nassau Street, Princeton NJ