Mercer County Board of Chosen Freeholders

Board Chair
John A. Cimino

Vice Chair
Andrew Koontz

Freeholders
Ann M. Cannon
Pasquale “Pat” Colavita, Jr.
Samuel T. Frisby, Sr.
Nina D. Melker
Lucyille R.S. Walter

From Left: Freeholders Nina D. Melker, Samuel T. Frisby Sr., Pasquale “Pat” Colavita, Jr, Board Chair John A. Cimino, Board Vice-Chair Andrew Koontz, Lucyille R.S. Walter, and Ann M. Cannon.
I am extremely pleased and proud to present our Fifteenth Annual Report of the Mercer County Department of Transportation & Infrastructure (DOT & I). Under the continued leadership of our County Executive, Brian M. Hughes, who was re-elected to a fifth consecutive term as well as the support of our Board of Chosen Freeholders, we continue to ensure the safety, mobility and efficiency of our transportation infrastructure for Mercer County residents now and into the future. Through the hard work of my dedicated and knowledgeable staff, I enthusiastically share our many important accomplishments for Year 2019 as well as our goals for year 2020, which are described in the Fifteenth Annual Report. Some of our most noteworthy accomplishments include:

- **Receipt of Annual Transportation Program (ATP) and Local Bridges, Future Needs Program Funds** – This year, the County received over $5.4M from the ATP Program and over $3.1M from the Local Bridges, Future Needs Program, enabling us to complete eight (8) bridge projects in 2019;

- **Received the American Council of Engineering Companies (ACEC) “Project of the Year” award for the replacement of the Cranbury Road Bridge (Bridge No. 762.1) in West Windsor Township;**

- **Acquired over $4M in FAA grants for various projects at the Trenton-Mercer Airport;**

- **Collected over $2,600,000 in terminal parking revenue at the Trenton-Mercer Airport;**

- **Continued Success of Frontier Airlines** – Frontier Airlines, now in their 7th year, serves 15 cities, 11 flights per day, and almost one million passengers per year. Frontier has also added service to/from Sarasota Bradenton International Airport in Florida and has agreed to extend their services until December 31, 2029;

- **Completion of Milling and Resurfacing Projects** – Mercer County, using in-house staff, completed milling and resurfacing of seventeen (17) sections of County owned roadways;
– **Completion of ADA Compliant Sidewalk Ramps** – Mercer County has initiated an effort to construct sidewalk ramps, compliant with Americans with Disabilities Act (ADA) standards, using in-house along with Direct Hire personnel;

– **Executed a grant with NJ Transit for $150,000 in grant funds to offset operating costs**;

The above projects and initiatives, along with many other important accomplishments in 2019 as well as goals set forth for Year 2020, are detailed in the Annual Report. I am certain after you review this information you will understand and appreciate why I feel such an overwhelming sense of pride for our leadership team and staff and what they have been able to achieve. I look forward to our continued success next year and in years to come.
The Division of Buildings & Grounds provides safe, secure and well maintained buildings and grounds for the general public, residents and employees of Mercer County. The staff strives to provide these services in a courteous, professional, and responsible manner. The Division of Buildings & Grounds provides physical support, custodial and maintenance services to 37 different county-owned facilities and several county offices in leased areas. Among other responsibilities, department staff ensures building safety and the optimal performance of building systems by providing preventative maintenance and repair of mechanical, HVAC, electrical, plumbing, building security systems and interior/exterior repairs and renovations.

Administrative Staff

Karl S. Thomas, General Supervisor of Trades
Peter Berkin, Supervisor of Trades
Joseph Termen, Program Monitor
Itia McClendon, Clerk

Supervisors (3)
John Runyon, Assistant Building Superintendent (Court House, 175/209 S. Broad St./400 S. Warren St.)
David Chiaramonti, Maintenance Supervisor (1750 River Road)
Darryl Williams, Supervising Maintenance Repairer (640 South Broad Street)

Assistant Sewage Plant Operator (1)
Daniel Dean

Boiler Operator/Maintenance Repairer (3)
Thomas Clark
Charles Kay
Jeff Selmon

Building Service Worker (3)
Bradley J. DeUmberto
Sharon Johnson
Dawayne Hill (PT)

Carpenter (1)
John H. Sanderson, Jr.

Electrician (1)
Kenneth Michaels

Laborer (1)
Michael Worth

Mail Clerk (1)
Donald Luberto

Maintenance Repairer (11)
Michael Aaron
Rodney Brown
Robert Davis
Jonathan Fox
Celestino Gonzalez
Anthony Paul Harris, Jr.

Milovan Segura
Tab Still
Justin Thomas
Anthony Tuccillo
Ricky Vitoritto
Mechanics Helper (1)
Mathew Gonzalez

Senior Building Maintenance Worker (1)
Nelson Reyes

Senior Building Service Worker (2)
Harold Edwards
Peter Stoveken

Senior Maintenance Repairer (4)
Scott Lang
Aureo Ortiz

Senior Painter (1)
Gerald Quarino

Senior Plumber (2)
Robert D’Angelo
Russell Wiltsey

Sewage Plant Operator (1)
Thomas Martlett

Telephone System Installer/Repairer (1)
Christopher Pizza

Employee Continuing Education

- Karl S. Thomas, General Supervisor of Trades, attended and completed the Construction Project Management course at Mercer County Community College (MCCC).

- Thomas Martlett, Sewage Plant Operator, attended the Septic System Inspections in NJ course at Rutgers University Continuing Education.

Right, Central Maintenance employee Roscoe Henderson, Painter’s Helper is assisting a student intern with painting exterior doors at Building #4, DOT & I Complex.
2019 Accomplishments

2019 Goal: Fiscal Year 2019 Operating Budget – *This goal has been accomplished.* A realistic and end-of-year projection was formulated in preparing the budget and approved by the Mercer County Board of Chosen Freeholders. Throughout the year, this division is responsible for the monitoring and controlling of expenditures and budgetary compliance. The total approved Fiscal Year 2019 Operating Budget was $9,827,491 and has a staff of 42 employees.

2019 Goal: Fiscal Year 2019 Capital Budget – *This goal has been accomplished.* The Capital Budget is the appropriations approved annually by the Mercer County Board of Chosen Freeholders as part of the Annual Operating Budget. The Capital Budget is the actual funding for approved projects in the fiscal year covered by the operating plan. The total approved Fiscal Year 2019 Capital Budget was $2,074,399.

2019 Goal: NJ State Contract Purchases – *This goal has been accomplished.* To obtain the best value at competitive prices, vendors covered under the most current contract were utilized.

2019 Goal: Mercer County Office Park (formerly Youth Detention Center) – *This goal has been accomplished.* Mercer County officially opened the Mercer County Office Park on Parkside Avenue in Ewing Township on September 20, 2019. The building at 1440 Parkside that formerly served as a youth detention center has been renovated and repurposed to house the Cooperative Extension of Mercer County, which runs the 4-H program, Master Gardeners and much more; and Mercer County Veteran Services. Pictured below is the new sidewalk entrance for the relocation of Veteran Services which was constructed by a composite crew of Buildings & Grounds and Mercer County Park Commission employees.
2019 Goal: Maintenance of Facilities – This goal has been accomplished. The Division of Buildings and Grounds provides all general and preventive maintenance services, including capital funded repairs and maintenance for 37 major County facilities. The division also performs a variety of minor construction, structural modifications and remodeling projects. Services include carpentry, painting, electrical, plumbing, heating, air conditioning, and other related maintenance work. In 2019, division personnel completed the following projects:
**Correction Center**
- Annex, main transformer failure repair.
- Pump house piping repair.

**Dempster Fire Training Academy (Fire School)**
- Groundwater discharge pipe repair.

**DOT & I Complex**
- Boiler replacements, Buildings #1 and #4.
- Radio Tower beacon repair.
- Security camera project conduit installation.
- Installation of Diesel Emission Fluid Dispenser.

*Below, boiler replacements in Buildings #1 & 4.*

*Above, new well replacement at the Correction Center.*

*Above, Diesel Emission Fluid Dispenser; Below, Completed conduit installation for Security Camera Project.*
Above, major repair of Groundwater Discharge Pipe at the Dempster Fire Training Academy.

Above, County-wide LED Retrofit installation at Mercer Office Park. Central Maintenance employees Kenneth Michaels, Electrician being assisted by Russell Wiltsey, Senior Plumber.

Right, Kenneth Michaels, Electrician repairing the Ground Water discharge pipe at the Dempster Fire Training Academy.
2019 Goal: Direct Hire – Continue to utilize Direct Hire for various projects, County-wide. This goal has been accomplished. The following projects were undertaken this year:

**Dempster Fire Training Academy (Fire School)**
- Installation of a pavilion for the new outdoor classroom.

**DOT & I Complex (300 Scotch Road)**
- Bathroom renovations in Building #1.

**McDade Administration Building (640 South Broad Street)**
- Construction of new offices in the Finance/Purchasing Department.
- Modular furniture installations.
- Loading dock renovations.
- Construction of a new kitchen.

**Mercer County Office Park (1440 Parkside Avenue)**
- Renovation and construction of new offices.
- Replacement/upgrade of exterior/interior door locks.

**Prosecutor’s Office (1589 Lamberton Road)**
- Child Advocacy Center renovations.
2019 Goal: Environmental Testing and Abatement Services, County-wide – Conduct air quality testing and reports, plus asbestos and mold assessments. This goal has been accomplished and will continue to be pursued in the future as needed. The County of Mercer has contracted with Brinkerhoff Environmental Services, Inc. of Manasquan, NJ to perform Environmental Consulting Services for the analysis and microbiological testing services, asbestos air and bulk sampling and oversight of remediation services. Testing was performed at various facilities throughout Mercer County in order to stay compliant with the New Jersey Department of Environmental Protection (NJDEP) Regulations.

2020 Goals

2020 Goal: Direct Hire – Continue to utilize Direct Hire for various projects.

2020 Goal: Fiscal Year 2020 Operating/Capital Budgets – Plan, develop and review potential cost savings in various areas.

2020 Goal: Maintenance of Facilities – Provide services related to the maintenance of County-owned facilities (37) and grounds by maintaining them in a safe and efficient manner.

2020 Goal: Environmental Testing and Abatement Services, County-wide – Enter into a Professional Services Agreement with Brinkerhoff Environmental Services, Inc. to continue to conduct air quality testing and reporting for various facilities as mandated by the New Jersey Department of Environmental Protection (NJDEP).

Central Maintenance staff performing LED Retrofit at various County facilities.
The Division of Engineering is responsible for project development, design, construction and maintenance of 687 bridges and culverts; nearly 300 electronically operated traffic control devices; and 180 miles (425 lane miles) of pavement and the supporting drainage, lane markings and traffic and wayfaring signs within the county roadway network. This Division is also responsible for the review and approval of site plans and subdivisions submitted to the Mercer County Planning Board. Mercer County’s Engineering Division continues to successfully acquire State and Federal funding for substantial capital investments for various infrastructure improvements to minimize the expenditure of County funds.

County Engineer
George A. Fallat, P.E.

Assistant County Engineer
Basit A. Muzaffar, P.E. (Sunny)

Confidential Secretary (1)
Michele Rizziello

Assistant Administrative Analyst (1)
Symone Seldon

Principal Engineers (2)
Yueming Li, P.E.
Joseph B. Vena, P.E.

Principal Engineer Traffic (1)
Jeffrey A. L’Amoreaux, P.E.

Senior Engineer (1)
Brian Gibson

Principal Engineering Aide (1)
David Kramer

Employee Continuing Education
The following employees attended the 2019 Transportation Engineering and Safety Conference on December 11 – 13, 2019, held at The Penn State Conference Center, PA:
George A. Fallat, P.E.
Jeffrey L’Amoreaux, P.E.
Brian Gibson
**Achievements & Awards**

Replacement of Cranbury Road (Bridge No. 762.1) over Bear Brook, West Windsor, Mercer County, New Jersey - On March 13, 2019, the American Council of Engineering Companies (ACEC) presented the County of Mercer with the award of “Project of the Year” for the replacement of Cranbury Road Bridge No. 762.1. This was the second award received for this project. Johnson, Mirmiran & Thompson (JMT) provided engineering design services for the replacement of Cranbury Road Bridge over Bear Brook. The previous four-span bridge, a simply-supported adjacent prestressed concrete voided slab beam structure, was classified as structurally deficient due to the poor condition of the substructure, as well as functionally obsolete due to inadequate deck geometry.

JMT designed a two-span continuous curved steel plate girder bridge supported by the full height abutments and hammerhead pier founded on steel H-Pile foundation. The brown colored steel four-bar bridge railing was installed to provide drivers and pedestrians a view of the scenic area.
Annual Transportation Program (ATP) and Local Bridge Fund Program

County Aid funds are appropriated by the New Jersey State Legislature annually for the improvement of public roads and bridges under County jurisdiction. Each County must develop an Annual Transportation Program (ATP). The ATP must be approved by the appropriate County governing body before submission to the State of New Jersey Department of Transportation (NJDOT) for final approval. Submission includes a certification detailing that allotted funds will only be expended on eligible costs for projects set forth in the approved ATP. The Local Bridges, Future Needs Program provides funds for the improvement of County jurisdiction bridges. As part of its Statewide Capital Investment Strategy, the NJDOT is focusing on preventive maintenance, rehabilitation and selective replacement of bridges. This program was initiated in recognition of funding that goes beyond what is currently available at a local level. This year the County applied for and received $5.4M and $3.1M in Annual Transportation (ATP) Program and Local Bridges, Future Needs Program respectively. For the year 2020, the County has applied for $5,492,654.00 from the Annual Transportation (ATP) Program and $3,118,598.00 from the Local Bridges, Future Needs Program. These funds, totaling $8,611,252.00, allows the County to make various improvements to our infrastructure. Listed below are the combined totals beginning 2010 through 2019:

<table>
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<th>Year</th>
<th>Annual Transportation Program (ATP)</th>
<th>Local Bridges, Future Needs Program</th>
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2019 Goal: Complete construction project; open road to traffic - *This goal has been accomplished.* The Mercer County Department of Transportation and Infrastructure completed the rehabilitation of the bridge carrying South Clinton Avenue over Assunpink Creek in the City of Trenton. The structure is located between Raoul Wallenberg and Greenwood Avenues. The bridge was reopened to vehicular traffic on April 30, 2019 under budget.

The bridge is a twin-barrel masonry arch structure. The rehabilitation included the construction of a reinforced concrete slab above the existing two-barrel stone masonry arch, and rehabilitation of the stone masonry spandrel walls, intrados and the concrete pier nose.

The cross section at the bridge consists of two variable-width travel lanes, and two sidewalks, three-beam guide rail (bridge railing), concrete barrier, pedestrian barrier, and ornamental pedestrian railing.

The superstructure consists of a reinforced concrete deck slab section. Sparwick Contracting, Inc. of Lafayette, New Jersey was the successful low bidder at $2,189,338.00. The Mercer County Board of Chosen Freeholders awarded the contract on May 24, 2018, as per Resolution No. 2018-255, and was funded through the New Jersey Department of Transportation, Division of Local Aid funds.
Bridge No. 140.6, carrying South Clinton Avenue over Assunpink Creek, City of Trenton

Pictured above is the twin barrel masonry arch structure before construction; below is the completed rehabilitation which included the construction of a reinforced concrete slab above the existing two-barrel stone masonry arch, and rehabilitation of the stone masonry spandrel walls, intrados and the concrete pier nose.

Pictured above is the bridge structure before construction; below is the completed rehabilitation which included two variable-width travel lanes, and two sidewalks, three-beam guide rail (bridge railing), concrete barrier, pedestrian railing and ornamental pedestrian railing. The superstructure consists of a reinforced concrete deck slab section.
2019 Goal: Award the project and commence construction. This goal has been accomplished. The bridge carrying Washington-Crossing-Pennington Road (CR 546) over Woolsey’s Creek in Hopewell Township was reopened to the motoring public on December 10, 2019 within the allotted construction budget and completed in 111 calendar days in spite of weather related delays and unforeseen utility conflicts.

Mercer County Bridge #216.6 was a single span, simply supported structure consisting of concrete encased steel beams supported on full height abutments built on spread footings. The bridge was in need of replacement due to the poor condition of the superstructure and substructure. It was deemed Structurally Deficient with Sufficiency Rating of 29.1 out of 100.

The replacement structure is a precast concrete culvert on concrete footings, concrete wing walls, concrete bridge deck, concrete bridge approach slabs, concrete pedestals, concrete bridge pylons and 4-bar open steel bridge railings. Roadway work includes hot mix asphalt paving, new striping, new guiderail and approach guiderail systems, excavation, topsoiling, seeding and new traffic signals. The proposed cross section at the bridge consists of two 12-foot travel lanes, one 6-foot and one 8-foot shoulder, one 5-foot sidewalk with 4 rail bridge railings. The new bridge will accommodate future bicycle lanes as part of the Mercer County Great Western Bikeway project. Midlantic Construction LLC of Barnegat, NJ 08005 was awarded the contract at a bid price of $1,764,408.71. The contract was awarded on June 27, 2019.
Bridge No. 250.3, carrying Carter Road over Beden’s Brook, Hopewell Township

2019 Goal: Carter Road over Beden Brook (Bridge No. 250.3), Hopewell Township – Award the project and commence construction. This goal has not been accomplished and will continue into 2020.

Bridge No. 252.2 & 252.8, carrying Hopewell-Rocky Hill Road over Branch of Beden’s Brook, Hopewell Township (AB2018-07)

2019 Goal: Award the project and commence construction - This goal has been accomplished. The bridges carrying Hopewell-Rocky Hill Road over a Branch of Beden’s Brook in Hopewell Township were reopened to the motoring public on July 12, 2019, on budget and ahead of schedule. Notice to proceed was issued on March 11, 2019, with a 150-calendar day completion. The project consisted of the replacement of two structures which are adjacent to one another and are located between Elm Street and Aunt Molly Road, immediately east of the Hopewell Borough line. The original bridges were a single-span, simply supported, concrete-encased steel multi-beam structures on full-height concrete abutments, supported on spread footings. MC #252.2 was considered scour critical and functionally obsolete. The bridge had a sufficiency rating of 58.2 out of 100. The replacement structure consists of a single-span, precast reinforced concrete adjacent beam superstructure with full-height precast concrete abutments and precast concrete spread footings. The adjacent structure, MC #252.8, is not on the National Bridge Inventory System and as such does not have an associated sufficiency rating. It consists of a single-span, precast concrete three-sided rigid frame structure supported on precast concrete spread footings. Both structures support a 38-foot-wide cartway and a 5-foot-wide sidewalk along the north side. The cross section consists of two 12-foot travel lanes, two 7-foot shoulders and concrete railings installed along both sides. Midlantic Construction LLC of Barnegat, New Jersey was the successful lowest bidder at $2,016,962.82.
2019 Goal: Award the project and commence construction - This goal has been accomplished and construction will continue into 2020. The Mercer County Purchasing Department advertised for bids for the replacement of Bridge No. 330.1, carrying Alexander Street over Stony Brook and Bridge No. 331.1, carrying Alexander Street over Alexander Creek in the Municipality of Princeton. Bids were received on June 4, 2019, and Marbro, Inc. of Long Branch, New Jersey was the successful low bidder in the amount of $6,391,117.00 (8%) lower than the engineers estimate. Notice to proceed was issued on November 6, 2019. One bridge and one culvert on Alexander Street will be replaced during a 135-day roadway closure. The New Jersey Department of Transportation (NJDOT), owner of the D&R Canal Bridge on Alexander Road in West Windsor, has contracted with Anselmi & DeCicco, Inc., to replace their bridge structure. Mercer County Department of Transportation and Infrastructure (DOT & I) has contracted with Marbro, Inc. to replace the truss bridge over Stony Brook and a culvert located south of Lawrence Drive in Princeton.
Bi-County Bridge No. 350.3, carrying Cherry Valley Road over Beden’s Brook, Municipality of Princeton and Montgomery Township, Mercer County (AB2018-10) and Somerset County (C0102)

2019 Goal: Complete construction project; open road to traffic – This goal has been accomplished. The bi-county bridge carrying Cherry Valley Road over a Branch of Beden’s Brook at the Princeton-Montgomery border was reopened to the motoring public on January 17, 2019, on budget and ahead of schedule. Notice to proceed was issued on October 22, 2018, with a 90-calendar-day completion. Officially known as Bridge No. 350.3 on Cherry Valley Road, the structure traverses a Branch of Beden’s Brook located in the Municipality of Princeton (Mercer County) and Montgomery Township (Somerset County). The original bridge was a single span, reinforced concrete slab on concrete/masonry abutments. The structure was considered structurally deficient due to poor condition of the substructure and superstructure. The replacement bridge consists of a prefabricated, three-sided concrete culvert supported on spread footings. The structure supports a 46-foot-wide cartway and a 5-foot-wide sidewalk along the north side. The cross section at the bridge consists of two 12-foot travel lanes, one 12-foot and one 5-foot shoulder, and four-rail bridge railings. Underground Utilities Corp. of Linden, New Jersey was the successful low bidder at $550,274.

Pictured above is the bridge structure before replacement.

Below is the completed replacement bridge which consists of a prefabricated, three-sided concrete culvert, a 46-foot-wide cartway and a 5-foot-wide sidewalk along the north side. The cross section at the bridge consists of two 12-foot travel lanes, one 12-foot and one 5-foot shoulder, and four-rail bridge railings.
Bridge No. 543.1, carrying Bakers Basin Road over Shipetaukin Creek, Lawrence Township

2019 Goal: Complete construction project; open road to traffic - This goal has been accomplished and carried over into 2020 for final close-out. The replacement of the Bakers Basin Road Bridge, which traverses the Shipetaukin Creek in Lawrence Township, was reopened to the motoring public on December 21, 2018 on budget and ahead of schedule. The contractor Midlantic Construction, LLC of Barnegat, New Jersey was the successful low bidder at $1,651,142. Notice to proceed was issued on September 10, 2018 with a 120-calendar-day completion.

The original bridge carrying Bakers Basin Road over the Shipetaukin Creek was considered structurally deficient due to poor condition of the substructure, with a sufficiency rating of 45.6 on a scale of 0 to 100, with 100 being the best and 0 being the worst.

The replacement bridge is a single-span structure supported on full height pre-cast abutments. The proposed cross section at the bridge is two 12-foot travel lanes, one 7-seven foot shoulder, one 1 – one foot shoulder and one 5-five foot sidewalk and four-rail bridge railings. The superstructure will consist of reinforced concrete beams with 3/8” MMA (methyl methacrylate) polymer concrete overlay. The substructure is founded on precast spread footings.

Pictured above on the right is the bridge structure before construction; below left is the completed single-span structure supported on full height pre-cast abutments, two 12-foot travel lanes, two 5-foot shoulders and one 6-foot sidewalk and four-rail bridge railings; below right is the south elevation of the bridge structure.
2019 Goal: Complete construction project; open road to traffic - This goal has been accomplished. The replacement of the bridge carrying Old Trenton Road over Bridegroom Run in West Windsor Township was reopened to the motoring public on March 25, 2019, on budget. The contractor Marbro, Inc. of Long Branch, New Jersey was the successful low bidder at $1,691,117. Notice to proceed was issued on October 1, 2018 with a 150-calendar-day completion.

The bridge structure carrying Old Trenton Road over Bridegroom Run was considered structurally deficient due to poor condition of the culvert. The replacement structure consists of a prefabricated, three-sided concrete culvert supported on pile foundation. The structure supports a 46-foot-wide cartway and a 5-foot-wide sidewalk along the north side.

The cross section of the bridge will consist of two 12-foot travel lanes, one 12-foot and one 5-foot shoulder, and four-rail bridge railings.
2019 Goal: Award the project and commence construction - This goal has been accomplished. The Mercer County Purchasing Department advertised for bids for the replacement of Bridge No. 861.1, carrying Old Trenton Road (CR 535) over Tributary to Millstone River, located between One Mile Road and Princeton-Hightstown Road in East Windsor Township. The bid was awarded to Marbro, Inc. of Long Branch, NJ on June 13, 2019 in the amount of $1,637,117. Notice to proceed was issued on August 1, 2019. In an effort to expedite completion of the project, Mercer County employed Accelerated Bridge Construction (ABC) technology, which included the use of pre-fabricated components. Standard construction likely would have resulted in a completion time of six to nine months. However, the use of ABC enabled the project to be completed in 106 calendar days despite weather-related delays and unforeseen conflicts. The previous structure consisted of a single-span concrete-encased steel stringer bridge. The structure was considered functionally obsolete due to substandard roadway width. The replacement structure is 19-foot-6-inch clear span by 51-foot-6-inch-wide single-cell culvert structure supported on two spread footings. The new cross-section at the bridge consists of two 12-foot travel lanes, two 6-foot shoulders and two 6-foot sidewalks.
Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

Monmouth Street over Assunpink Creek (Bridge No. 140.8), City of Trenton – Monmouth Street between East State Street and North Clinton Avenue was closed to all traffic on December 5, 2019 due to emergency bridge repairs. Rehabilitation of the bridge, officially known as Mercer County Bridge #140.8) which carries Monmouth Street over Assunpink Creek is scheduled to be completed in 150 calendar days, weather permitting.

The existing bridge structure is a single span and is simply supported, consisting of concrete encased steel beams supported on full height abutments built on piles. The bridge is considered Structurally Deficient due to the serious condition of the deck, with sufficiency rating of 78.0 out of 100.

The rehabilitated bridge will have steel stringers with precast deck, concrete bridge approach slabs, concrete pedestals, concrete bridge pylons and 4-bar open steel bridge railings. Roadway work includes hot mix asphalt paving, new striping, new guiderail and approach guiderail systems, excavation, top soiling and seeding.

The proposed cross section at the bridge will consist of two 12-foot travel lanes, two sidewalks and two shoulders with 4 rail bridge railings.
Quakerbridge Road over Amtrak (Bridge No. 5-780.1), West Windsor and Lawrence Townships – Emergency repairs commenced on June 24, 2019 on the Quakerbridge Road Bridge over Amtrak in Lawrence Township near the border with West Windsor just north of the Village Road West intersection. The bridge deck was deemed structurally deficient. Parts of the deck, headers, deck joints, approaches and both sidewalks needed to be repaired immediately. Underground Utilities Corporation was the successful low bidder in the amount of $584,509.

Pictured above: Quakerbridge Road over Amtrak before repairs; Pictured below: completed repairs.
Bridge No. 140.9, carrying Lincoln Avenue over Assunpink Creek and Amtrak North East Corridor, City of Trenton

2019 Goal: Complete the Local Concept Design and commence the award for Preliminary Design - *This goal has been accomplished.* On May 24, 2018, the Mercer County Board of Chosen Freeholders awarded the Professional Services Agreement (awarded through a non-fair and open process) for preliminary design services for the replacement of Bridge No. 140.9, carrying Lincoln Avenue, over the Northeast Corridor Rail Line, an inactive rail yard, and Assunpink Creek in the City of Trenton, as per Resolution No. 2018-246. The contract was awarded to Greenman-Pedersen, Inc. (GPI) in an amount not to exceed $1,497,226.21 until completion of services.

Bridge No. 441.2, carrying Prospect Street over the Shabakunk Creek, Ewing Township

2019 Goal: Advertise the project; award the contract for design - *This goal has been accomplished.* On April 25, 2019, the Mercer County Board of Chosen Freeholders awarded the Professional Services Agreement (awarded through a non-fair and open process) for engineering design services for the replacement of Bridge No. 441.2, carrying Prospect Street over the Shabakunk Creek in the Township of Ewing, as per Resolution No. 2019-218. The contract was awarded to Churchill Consulting Engineers in the amount of $218,505.50 until completion of services.

Bridge No. 760.4, carrying Grover’s Mill Road over the Millstone River, West Windsor and Plainsboro Township, Mercer and Middlesex County (Bi-County)

2019 Goal: Advertise the project; award the contract for design - *This goal has been accomplished.* On May 6, 2019, the Mercer County Board of Chosen Freeholders awarded the Professional Services Agreement (awarded through a non-fair and open process) for engineering design services for the replacement of Bi-County Bridge No. 760.4, carrying Grover’s Mill Road over the Millstone River in the Townships of West Windsor and Plainsboro, Counties of Mercer and Middlesex, as per Resolution No. 2019-235. The contract was awarded to Johnson, Mirmiran & Thompson (JMT) in the amount of $354,438.64 (*cost shall be equally shared*) until completion of services.
Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

Bridge No. 180.1, carrying an Abandoned Railroad Trail over Parkside Avenue, City of Trenton

On March 14, 2019, the Mercer County Board of Chosen Freeholders awarded the Professional Services Agreement (awarded through a non-fair and open process) for engineering design services for the replacement of Bridge No. 180.1, carrying an Abandoned Railroad Trail over Parkside Avenue in the City of Trenton, as per Resolution No. 2019-158. The contract was awarded to Grant Engineering, LLC in the amount of $143,760.61 until completion of services.

Bridge No. 364.15, carrying Locust Lane over Harry’s Brook, Municipality of Princeton

On January 24, 2019, the Mercer County Board of Chosen Freeholders awarded the Professional Services Agreement (awarded through a non-fair and open process) for preliminary engineering design services for the replacement of Bridge No. 364.15, carrying Locust Lane over Harry’s Brook in the Municipality of Princeton, as per Resolution No. 2019-51. The contract was awarded to Cherry Weber & Associates in the amount of $281,621.62 until completion of services.

Bridge No. 441.4, carrying Lower Ferry Road over Shabakunk Creek, Ewing Township

On January 24, 2019, the Mercer County Board of Chosen Freeholders awarded the Professional Services Agreement (awarded through a non-fair and open process) for preliminary engineering design services for the replacement of Bridge No. 441.4, carrying Lower Ferry Road over Shabakunk Creek in Ewing Township, as per Resolution No. 2019-52. The contract was awarded to IH Engineers, P.C. in the amount of $170,000.00 until completion of services.

2020 Goals: Bridge Construction Projects

2020 Goal: Bridge No. 140.8, carrying Monmouth Street over Assunpink Creek, City of Trenton – Award the project and commence construction.

2020 Goal: Bridge No. 140.9, carrying Lincoln Avenue over Assunpink Creek and Amtrak North East Corridor, City of Trenton – Award the final design of the project.
2020 Goal: Bridge No. 180.1, carrying an Abandoned Railroad Trail over Parkside Avenue, City of Trenton – Award the project and commence construction.

2020 Goal: Bridge No. 250.3, carrying Carter Road over Beden’s Brook, Hopewell Township - Award the project and commence construction.


2020 Goal: Bridge No. 672.2, carrying Yardville-Groveville Road over Doctor’s Creek, Hamilton Township - Award the project and commence construction.

2020 Goal: Bridge No. 670.4, carrying Iron Bridge Road over Crosswicks Creek, Hamilton and Chesterfield Township, County of Mercer and Burlington (Bi-County) – Complete design and advertise for construction.

2020 Goal: Bridge No. 942.6, carrying Windsor Road over the Assunpink Creek, Robbinsville Township – Complete design.

2020 Goals: Bridge Design Project

2020 Goal: Bridge No. 863.4, carrying Ward Street over Peddie Lake, Hightstown Borough – Award the contract for design.

2020 Goal: Bridge No. 217.1, Church Street over D&R Canal, Hopewell Township – Award the contract for design.

Traffic and Roadway Projects

Complete Streets Policy

2019 Goal: - Continue to Plan and Implement Bicycle Lanes on County Roadways - Continue to coordinate with the Planning Department on developing design standards and identifying key routes for installation of bicycle lanes on county roadways. In keeping with the Mercer County’s Complete Streets Policy, we will also continue to provide bike compatible shoulders to the extent possible when we restripe roads that have been resurfaced. This goal has been accomplished and continues to be pursued. This year, the following Bicycle Lane Improvements were completed:
Scotch Road (CR 611), Ewing Township
Road Diet, Bicycle Lanes, Pedestrian Crossings, and ADA Ramps.
**Ewingville Road (CR 636), Ewing Township**
Complete Street Improvements: Road Diet, Bicycle Lanes, Pedestrian Crossings, and ADA Ramps.
North Main Street (CR 539), Borough of Hightstown
Complete Street Improvements: Road Diet, Bicycle Lanes, Pedestrian Crossings, and ADA Ramps.
Ingleside Avenue (CR 631), Pennington Borough
Mini-Roundabout, Bicycle Sharrow, Pedestrian Crossings, and ADA Ramps.
Elm Road (CR 604), Municipality of Princeton
Bicycle lane on one side of roadway; bikeable shoulder on opposite side.

**2019 Elm Road Repaving with Bicycle Lane**

Roadway Safety Enhancements/DVRPC Quick Obligation Funds
2019 Goal: - Construct Roadway Safety Enhancements using Delaware Valley Regional Planning Commission (DVRPC) Quick Obligation Funds - Preliminary plans and other necessary documents have been prepared to install high friction surface courses, rumble strips and raised pavement markers on various county roadways. *This goal has not been accomplished.* We propose to have the necessary approvals in place so that we can proceed with advertising the project when funding becomes available in 2020.

South Broad Street and Kim Valley Road, Hamilton Township
2019 Goal: Prepare bid documents for traffic signal upgrades at the intersection of South Broad Street and Kim Valley Road, Hamilton Township – *This goal has not been accomplished.* We initially considered a traffic signal upgrade at this location. However, we are also considering elimination of the existing outdated traffic signal and installing a roundabout. Concept plans for a new roundabout at this location are being developed through our on-call engineering contact.
**Hamilton Avenue, Kuser Road and Liberty Street, Hamilton Township**

2019 Goal: Prepare bid documents for traffic signal upgrades at the intersections of Hamilton Avenue, Kuser Road and Liberty Street, Hamilton Township – *This goal has been accomplished.* The Delaware Valley Regional Transportation Commission (DVRPC) has allocated funds to advance construction of proposed improvements through their Congestion Management Air Quality (CMAQ) program. The New Jersey Department of Transportation is preparing a Categorical Exclusion Document (CED) for the project. We expect to advertise the project next year.

**Engineering Task Order Agreement**

2019 Goal: Engineering Task Order Agreement - Continue to work with the Planning Department in developing design projects and preparing the necessary documentation so the projects are construction ready. These efforts would be undertaken under the current Task Order agreement with the Planning Department. *This goal has been accomplished.* The following design consultants were selected to provide Highway and Traffic Engineering Services for a one (1) year period of December 20, 2018 through December 19, 2020 for the following projects:

**Traffic Signal Upgrades** - Hamilton Avenue and Kuser Road; Ward Avenue and Hamilton Avenue and Liberty Street, Hamilton Township – Michael Baker International, Inc.

**Roundabout Concept** – Princeton-Hightstown Road (CR 571) and Old Trenton Road; Old Trenton Road and Millstone Road, East Windsor Township – Arora and Associates, PC.
Princeton-Hightstown Road Improvements, West Windsor Township

2019 Goal: Initiate Princeton-Hightstown Road Improvements, West Windsor Township

Mercer County has received funds for design and construction of improvements to Princeton-Hightstown Road between Wallace-Cranbury Road and Clarksville Road. The project includes construction of sidewalk and widening to accommodate a two-way center left turn lane and bicycle lanes. The project is proposed to be completed in two phases: the first phase would include the section of Princeton-Hightstown Road between Wallace / Cranbury Road and Alexander Road; the second phase would include the section between Alexander Road and Clarksville Road. *This goal has not been accomplished due to extensive comments on bid documents prepared by WSP that needed to be addressed, including the complexity of the proposed drainage design. Right-of-Way acquisition is also required to accommodate the widening.*

Brunswick Circle Extension and Princeton Pike, Lawrence Township

2019 Goal: Initiate Final Design for the Brunswick Circle Extension and Princeton Pike, Lawrence Township - *This goal has been accomplished.* Urban Engineers has developed a concept plan for a roundabout at Princeton Pike and the Brunswick Circle Extension. Further evaluation will be needed to determine the cost benefit ratio associated with the improvements. We would also explore impacts to the section of Princeton Avenue south of the intersection.

Guiderail Inventory and Upgrade Program

2019 Goal: Guiderail Inventory and Upgrade Program - *This goal has been accomplished.* New guiderail treatments and elimination of unwarranted guiderail have been recommended for several locations by the engineering firm of Johnson, Mirmiran and Thompson, Inc. (JMT). We initiated these recommendations in year 2019 through our on-call contract. This year, the following locations were completed with the removal of 5563’ of guiderail and replaced with 5892’ of new guiderail:

- Church Street (CR 672), Bridge No. 670.3, Hamilton Township
- Pennington-Hopewell Road, Bridge No. 230.1, Hopewell Township;
- County Route 654, over railroad, Hopewell Township;
- Poor Farm Road, Bridge No. 214.9, Hopewell Township;
- Franklin Corner Road (CR 546), Bridge No. 542.9, Lawrence Township;
- Quakerbridge Road (CR 533), Bridge No. 5-780.1, Lawrence /West Windsor Townships;
- Sharon Road, Bridge No. 941.11, Robbinsville Township;
- Clarksville Road (CR 638), Bridge No. 721.3, West Windsor Township;
- Princeton-Hightstown Road (CR 571), West Windsor Township;
ADA Compliant Sidewalk Ramps

2019 Goal: Construct ADA Compliant Sidewalk Ramps – This goal has been accomplished. Plans, specifications and estimates were prepared by our Engineers. In conjunction with the Division of Highways and Direct Hire, twenty-four (24) ADA Compliant Ramps were installed this year at the following locations:

<table>
<thead>
<tr>
<th>No.</th>
<th>County Road</th>
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<td>Mercer Corporate Park</td>
<td>1440 Parkside Avenue</td>
<td>Ewing</td>
<td>Curb/Sidewalk</td>
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<td>24</td>
<td>Sam Weinroth Way</td>
<td>Tower Road</td>
<td>Ewing</td>
<td>Curb</td>
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Old Trenton Road and Edinburg Road Intersection, West Windsor Township

2019 Goal: Construct Widening and Signal Improvements at the Intersection of Old Trenton Road and Edinburg Road, West Windsor Township - This goal has not been accomplished due to required utility relocations. West Windsor Township has acquired property located on the southwest corner of the Old Trenton Road and Edinburg Road and has demolished the former structure. We proposed to widen Edinburg Road at the approach to the intersection and provide a right turn lane. In addition, the traffic signal would need to be reconstructed. West Windsor Township has also requested that we incorporate a bike lane, which may require additional utility relocations and possibly right of way acquisition.
Old Trenton Road and Princeton-Hightstown Road Intersection, East Windsor Township

2019 Goal: Prepare Concept Plans for Improving Old Trenton Road and Princeton-Hightstown Road Intersection, East Windsor Township - This goal has been accomplished. As part of our Engineering Task order Agreement, the consultant has prepared several alternatives for improving the intersection of Old Trenton Road/Princeton Hightstown Road and Old Trenton Road/Millstone Road intersections. Next steps will include preparing final plans and seeking funding sources for final design and construction.

Parkway Avenue Road Diet, Ewing Township/City of Trenton

Parkway Avenue Road Diet – This goal has been partially accomplished and continues to be pursued. The NJDOT has initiated a pilot project for a road diet of Parkway Avenue between Scotch Road and Pennington Road in Ewing Township and the City of Trenton. This is the first such initiative in New Jersey that would seek to use federal Highway Safety Improvement Program (HSIP) funds for a Road Diet. We continue to work with the State as well as other identified Stakeholders in options for the corridor.

Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

Great Western Bikeway

The NJDOT provided a Local Planning Assistance Grant to Mercer County in 2009 to develop a concept for a designated bicycle route on County Route 546, variously known as Washington Crossing-Pennington Road, Pennington-Lawrenceville Road, and Franklin Corner Road, with a diversion around the Pennington Circle and into Pennington on County Routes 631 and 632. A bicycle route generally along County Route 546, with connections to County Route 611, County Route 624, and County Route 640, will provide access to residential areas, and recreational facilities in the western portion of the county. Some key destinations include Pennington Borough, Ewing Town Center, Ewing Public Library, Lawrenceville Village, Brandon Farms, the Delaware and Raritan Canal State Park, Washington Crossing State Park at both NJ Route 29 and US 1, Mercer Meadows County Park, the Twin Pines multi-municipal soccer complex, and the Johnson Trolley Line Trail, which provides connections to the Lawrence-Hopewell Trail and Lawrence Township’s Village Park.

Mercer County submitted an Application to the NJDOT for a Regional Transportation Alternatives Project Grant to bid, design and construct a bicycle route along County Route 546 and several of its approaches by way of Resolution No. 2017-469, adopted October 19, 2017. The Division of Local Aid and Economic Development published a letter to the DVRPC announcing that Mercer County has been selected for funding through the Regional Transportation Alternatives Program for the Mercer County Great Western Bikeway in the amount of $2,365,900.00. The Mercer County Board of Chosen Freeholders approved the
acceptance of this Grant by way of Resolution No. 2019-195, adopted 2019-195. Design consultants were solicited to submit proposals for Preliminary Design of the bikeway. The consulting firm of NV5 has been selected to prepare Preliminary Design documents. This goal has been accomplished.

Olden Avenue Local Concept Development
The DVRPC awarded a grant to initiate Local Concept Development design of Olden Avenue between New York Avenue and NJ Route 31 in Ewing Township and the City of Trenton. The consulting firm of McCormack Taylor was selected to undertake the project and prepare options to enhance bicycle and pedestrian safety and mobility on Olden Avenue. This goal has been accomplished.

Arena Drive and Hempstead Road, Hamilton Township
Mercer County road crews, along with Direct Hire, installed two (2) channelization islands to provide better stop sign visibility at the intersections of Arena Drive and Hempstead Road in Hamilton Township.

– Ewing Town Center (ETC) – Markout for Scotch Road and Parkway Avenue pavement markings was completed on October 2, 2019. Ozgur Cakir, developer of ETC was notified that he can commence markings of Scotch Road and Parkway Avenue. Markings are now complete, although utility pole still in the way on the northeast corner. We are awaiting line movement by Verizon and Comcast. Traffic signal work also needs to be completed.
Mercer County’s road signing crews, along with pavement marking crews from Zone Striping installed a mini-roundabout at Burd Street and Ingleside Avenue in the Borough of Pennington. The mini-roundabout was installed as a result of a recent repaving operation performed by the County’s crews, and a desire by local residents to calm traffic in the area. The mini-roundabout has a diameter of about 50 feet, and has a flat central island traversable by oversize and emergency vehicles.

The mini-roundabout was installed on a trial basis with the endorsement of Borough officials, and in early 2020 the mini-roundabout will be reevaluated once one pass of the seasons has occurred. The County would like to thank Pennington Borough officials, contractors and dedicated employees for quickly taking the opportunity to try something new which could potentially have applications elsewhere in Mercer County.

Left, Pennington Borough Public Safety Director Bill Meytrott; right, Traffic Maintenance Supervisor Mark Mattaliano and Traffic Maintenance Worker David Cifelli; below, Traffic Maintenance Worker Clorie Jones.
2020 Goals

- **2020 Goal:** - Complete Streets Policy - Continue to Plan and Implement Bicycle Lanes on County Roadways - Continue to coordinate with the Planning Department on implementing bicycle lanes on county roadways.

- **2020 Goal:** - Construct Roadway Safety Enhancements using Delaware Valley Regional Planning Commission (DVRPC) Quick Obligation Funds – We would seek available funds to install high friction surface courses, rumble stripes and raised pavement markers on various county roadways. Preliminary plans and other necessary documents have been prepared, but would need to be modified to comply with NJDOT plan standards and details.

- **2020 Goal:** Prepare bid documents for either traffic signal upgrades or installation of a roundabout at the intersection of South Broad Street and Kim Valley Road, Hamilton Township – Concept plans and cost estimates are currently being prepared for both options. Once an option is selected, bid documents would be prepared through our on-call engineering contract.

- **2020 Goal:** Undertake construction for traffic signal upgrades at the intersections of Hamilton Avenue, Kuser Road and Liberty Street, Hamilton Township. – The project includes traffic signal upgrades, construction of ADA compliant sidewalk ramps and a new traffic signal at the intersection of Hamilton Avenue and Johnson Avenue.

- **2020 Goal:** Engineering Task Order Agreement - Continue to work with the Planning Department in developing design projects and preparing the necessary documentation so the projects are construction ready. These efforts would be undertaken under the current Task Order agreement with the Planning Department.

- **2020 Goal:** Commence Phase 1 Improvements on Princeton-Hightstown Road between Wallace/Cranbury Road and Clarksville Road, West Windsor Township - The project includes construction of sidewalk and widening to accommodate a two-way center left turn lane and bicycle lanes. We hope to initiate right of way acquisition in early 2020 so that we can advance construction. The project is proposed to be completed in two phases: the first phase would include the section of Princeton-Hightstown Road between Wallace / Cranbury Road and Alexander Road; the second phase would include the section between Alexander Road and Clarksville Road.

- **2020 Goal:** Guiderail Inventory and Upgrade Program – Installation of new guiderail treatments, upgrades and elimination of unwarranted guiderail will continue to be advanced through our on-call guiderail contract.
- **2020 Goal: Complete Final Design for the Brunswick Circle Extension and Princeton Pike, Lawrence Township** - Urban Engineers has developed the Preliminary Preferred Alternative Plan for a roundabout at Princeton Pike and the Brunswick Circle Extension. We hope to advance this project to Final Design and receive federal authorization to proceed with the project.

- **2020 Goal: Construct ADA Compliant Sidewalk Ramps** – Plans have been prepared for construction of ADA compliant sidewalk ramps on county roadways. Construction has successfully been completed through our current Direct Hire program, which we propose to continue into next year. Locations would include newly sidewalk locations along newly resurfaced and recently resurfaced roadway segments.

- **2020 Goal: Construct Widening and Signal Improvements at the Intersection of Old Trenton Road and Edinburg Road, West Windsor Township** – We propose to advance widening of Edinburg Road and undertake intersection improvements where it intersects Old Trenton Road. Several utility poles owned by JCP&L need to be relocated to accommodate the proposed improvements. The bulk of road work will be completed using in-house personnel.

- **2020 Goal: Finalize Concept Plans for Old Trenton Road and Princeton-Hightstown Road Intersection, East Windsor Township** - Several alternatives for improving the intersection of Old Trenton Road/Princeton Hightstown Road and Old Trenton Road/Millstone Road intersections have been prepared and reviewed. Over next year, we intend to coordinate with East Windsor Township and advance final design. We would also identify and seek potential funding sources for preparing final design and bid documents and construction.

- **2020 Goal: Parkway Avenue Road Diet** – The NJDOT has initiated a pilot project for a road diet of Parkway Avenue between Scotch Road and Pennington Road in Ewing Township and the City of Trenton. This is the first such initiative in New Jersey that would seek to use federal Highway Safety Improvement Program (HSIP) funds for a Road Diet. We will continue to work with the State as well as other identified Stakeholders to advance construction. We are also seeking to advance design of a roundabout or traffic signal at the intersection of Sullivan Way and Silvia Street in anticipation of Ewing Township extending Silvia Street at which point we could implement a portion of the proposed road diet on Parkway Avenue.
The Division of Highways is comprised of six (6) divisions: Roads, Bridges & Culverts, Mosquito Control, Motor Pool, Shade Tree and Traffic & Signal with 120 employees. Each of the divisions has tasks unique to its responsibilities; however, all Units work together in many facets of the division to provide services necessary for a safe, clean and healthy environment.

**Administrative Staff**

Chris Markley, Superintendent of Public Works  
Gene Pucci, Director of Public Works  
Jodi Hawryluk, Manager  
Irene Szymelewicz, Payroll Supervisor  
Marcie Kintzel, Clerk 3  
Ariel Steward, Clerk 2  
Kevin Payne, Storekeeper  
Luigi Corsaro, GIS Specialist

*Road Supervisors (6)*
- Stephen Benner
- Jose A. Burgos
- Paul Franks
- Edward A. Gregg, Jr.
- Francis J. Kelly
- Richard Vitella

*Senior Road Inspector (1)*
Joseph Solack

*Road Inspector (1)*
James Carroll

*Mason (1)*
George S. Patas

*Heavy Equipment Operators (3)*
- William B. Harrison
- Anthony J. Kuligoski, III
- Tyrone E. McMath

*Heavy Equipment Operator – Asphalt (5)*
- Shane Gibson
- Archibald Harrison, Jr.
- Kyle Kidd
- Shawn C. McCall
- Floyd Scott

*Equipment Operators (8)*
- Marquis J. Bibb
- Brian M. Blakely
- David S. Gibson
- Sheldon B. Jordan

*Heavy Equipment Operator – Asphalt (5)*
- Gregory A. Lawrence
- Eric J. Pressley
- David A. Thompson
- Gerald E. Tilghman

*Laborer-Heavy (6)*
- Miguel A. Hernandez
- Ryan T. Laird

*Truck Driver (4)*
- Jonathan D. Howard
- Vincent C. Malcom
- Asim H. Shabazz
- Clarence Willets, Jr.
Laborers (16)

- David Angeline
- Terrance Bailey
- Kyle J. Carmichael
- Billy Carter
- Matthew Hawkyard
- Raymond S. Heil
- Mark Jackson
- Kurt Jordy
- Rockhill Lambert
- Curtis McDonald
- Lawson McElroy
- Steven Melendez
- Earl W. Peters, Jr.
- Vernon Ramsey
- Christian Reisner
- Matthew A. Richards

Employee Continuing Education

- 85th Annual Meeting American Mosquito Association
- 2019 Pesticide Recertification, NJ Mosquito Control Association, Inc.
- 2019 Academy AssetWorks Training
- 2019 Pesticide Recertification, NJ Mosquito Control Association, Inc.
- 2019 Public Works Conference
- Basic Chainsaw Safety
- Roadside and Right of Way Vegetation Management Training
- Management and Leadership Training
- 2019 Annual NJ Asphalt Paving Conference
- 2019 NJSACRS Planning meeting
- Traffic Control Coordinator Refresher Workshop
- NJ Urban and Community Forestry Core Training Program
- 2019 Academy AssetWorks Training
- Clean Communities Certification Training
- Roadside and Right of Way Vegetation Management Training
- 2019 Vector Summit
- Pierce Eagle, Nozzle Demonstration
- Clean Communities Certification Training
- Roadside and Right of Way Vegetation Management
- New Jersey Association of Counties Annual Conference
- Basic Math and Plan Reading Course
- Grapple Saw Demo
- Compliance to the Americans with Disabilities Act (ADA) in the Right of Way Program
- Clean Communities Training
- Case 721 Training
- Reasonable Suspicion of Drug and Alcohol Use
2019 Accomplishments

Administration
2019 Goal: Operating/Capital Budget – Prepare budget and submit to Mercer County Board of Chosen Freeholders for approval. This goal has been accomplished. The proposed 2019 Operating Budget for the Roads Unit and the Capital Budget for Road Rehabilitation Projects was submitted to the Deputy Administrator and Chief Financial Officer for review and adoption by the Mercer County Board of Chosen Freeholders.

Mercer County Board of Chosen Freeholders
The Mercer County Board of Chosen Freeholders ratified the following Resolutions:

Shared Services Agreement
Ewing Township
– The County of Mercer entered into a Shared Services Agreement with Ewing Township for snow removal operations of the Municipal roadway known as Charles Ewing Boulevard, from NJ Route 31 to Lower Ferry Road, as per Resolution No. 2019-362, adopted August 13, 2019.

Hamilton Township
– The County of Mercer entered into a Shared Services Agreement with Hamilton Township to exercise a third year and fourth year option to extend the Shared Services Agreement to utilize certain services at the Hamilton Township Ecological Facility, as per Resolution No. 2019-285, adopted June 13, 2019.

Maintenance of County Roadways
2019 Goal: Conduct large-scale road construction, resurfacing and repair projects. This goal has been accomplished. The maintenance of nearly 180 miles (425 lane miles) of County roadways is essential to ensure safety to the traveling public. Roadways are routinely inspected by our personnel. This year, seventeen (17) milling and resurfacing projects were budgeted and completed. In addition to milling and resurfacing, inlet basin retrofits were required to comply with the New Jersey Department of Environmental Protection (NJDEP) regulations. If needed, faded signs were replaced to help ensure the safety of the traveling public and ensure compliance with retro-reflectivity requirements. Americans with Disability Act (ADA) facilities were retrofitted and upgraded to become compliant with the ADA. Data collection was conducted to report National Highway System (NHS) asset inventory to the New Jersey Department of Transportation for critical infrastructure evaluations required by the Federal Highway Administration’s National Highway Performance Program (FHWA NHPP). Due to deteriorated surface pavement conditions, the following milling and resurfacing projects were completed:
City of Trenton

- **East State Street (County Route 635)**, between South Clinton Avenue and Raoul Wallenberg Avenue, City of Trenton.

- **Lalor Street (County Route 650)**, between NJ Route 129 and Liberty Street, City of Trenton.

East Windsor Township

- **Princeton-Hightstown Road (County Route 571)**, between Rabbit Hill Road and Old Trenton Road, East and West Windsor Townships.

- **Old York Road (County Route 539)**, between Airport Road and Eastwood Drive, East Windsor Township.

Ewing Township

- **Scotch Road (County Route 611)**, between Parkway Avenue and Upper Ferry Road, Ewing Township.

- **Ewingville Road (County Route 636)**, between Federal City Road and Eggerts Crossing Road, Ewing Township.

- **Lower Ferry Road (County Route 643)**, between Carlton Avenue and Upper Ferry Road, Ewing Township.

Hamilton Township

- **Whitehorse Avenue (County Route 533)**, between Arena Drive and Kuser Road, Hamilton Township.

- **Lalor Street (County Route 650)**, between NJ Route 129 and Liberty Street, Hamilton Township.

- **East State Street (County Route 535)**, between East State Street – Whitehead Road to Klockner Road, Hamilton Township.

Lawrence Township

- **Franklin Corner Road (County Route 546)**, between US Route 1 and Princeton Pike, Lawrence Township.

Hopewell Township

- **Carter Road (County Route 569)**, between Carter Road – Cleveland Road to Cherry Valley Road, Hopewell Township.
Pennington Borough
– **Ingleside Avenue (County Route 631)**, between South Main Street and State Route 31, Pennington Borough/Hopewell Township.

Hightstown Borough
– **North Main Street (County Route 539)**, between Town Center Road and Wyckoff Mills Road, Hightstown Borough.

Municipality of Princeton
– **Elm Road (County Route 604)**, between Rosedale Road and NJ State Route 206, Municipality of Princeton.
– **River Road (County Route 605)**, between Herrontown Road to the County Line.

Robbinsville Township
– **Pictured below:** Robbinsville-Edinburg Road (County Route 526), between Lake Drive and NJ Route 33, Robbinsville Township.
Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

- **Utilization of Direct Hire**
  This year, the following projects have been undertaken by Direct Hire:
  - **ADA Ramps** – 22, county-wide.
  - **Intersection of Arena Drive and Hempstead Road, Hamilton Township** – Construction/installation of two (2) channelization islands.
  - **Mercer County Office Park (formerly Youth Detention Center), Ewing Township** – Curb and sidewalk construction/installation.
  - **Trenton-Mercer Airport** – Curbing Project on Sam Weinroth Way, Ewing Township.

- **Salt Dome**
  The salt dome is used as a temporary storage for all construction debris; milling and paving, ADA upgrades and bridge reconstruction projects. The debris is crushed into a recyclable material and hauled for disposal. The recyclable material is available to the public.

- **County Route 518**
  Due to drainage issues, a new berm and inlet was installed.
- **DOT & I Complex** – Major inlet repair was undertaken by in-house personnel at the DOT & I Complex, 300 Scotch Road in Ewing Township.

![Image of workers repairing an inlet](image)

*Left to right, Laborer Mark Jackson, Mason George Patas (in the inlet), Heavy Laborer Miquel A. Hernandez and Laborer David Angeline repairing an inlet at the DOT&I Facility located at 300 Scotch Road, Ewing Township.*

2019 Goal: **Municipal Assistance Program (MAP)** – Respond to requests from local municipal agencies within Mercer County for assistance with local road maintenance and rehabilitation projects. *This goal has been accomplished.* The Municipal Assistance Program (MAP) provides labor and equipment for milling and resurfacing of roadways not under the jurisdiction of Mercer County. Under this program, the Highway Division provided assistance to the following municipalities:

**City of Trenton**

- **Parkside Avenue Drainage Project** – The culvert located under Parkside Avenue in the City of Trenton is flowing onto the pavement causing ponding conditions. The culvert is under the jurisdiction of the NJDOT and City of Trenton. The City of Trenton, along with the Mercer County Engineering and Highway Division are providing assistance to resolve the problem. A Preliminary Design for the installation of a small detention basin to slow the flow of water is currently being addressed.
Storm Cleanup - The Highway Division provided assistance during the following two (2) storms:
1. July 17, 2019 – Tornado weather conditions, damaging power lines, traffic signals and up-rooting trees.
2. July 22, 2019 – Windy weather conditions; fallen trees, limbs, brush and debris was removed from roadways and park areas.

Robbinsville Township
In conjunction with the milling and resurfacing project undertaken on Robbinsville-Edinburg Road between Lake Drive and NJ Route 33, a section of Meadowbrook Road was also completed, utilizing approximately 70 tons of material. The pavement surface was deteriorated due to a large number of potholes.

2019 Goal: Interdepartmental Assistance Program [IAP] - Provide resources to other departments within the County. This goal has been accomplished. The Division of Highways provided the following labor and material:

Correction Center
– Delivery of salt as requested for icy conditions.

Dempster Fire Training Academy
– Dempster Fire Training Academy (Fire School) – In conjunction with Direct Hire, provided assistance with the construction of the Outdoor Classroom.

McDade Administration Building
– Rear Parking Lot (640 South Broad Street), City of Trenton - Due to deteriorated pavement surface conditions, milling, resurfacing and striping of the rear parking lot was undertaken.

Park Commission
– Following a storm on July 22, 2019, assistance was provided in the clean-up of fallen trees, limbs, branch and debris in various park locations.
Prosecutor’s Office
- **Prosecutor’s Impound Lot, 4th Street, Ewing Township** – The Prosecutor’s Impound Lot was relocated from the Trenton-Mercer Airport to 4th Street in Ewing Township. Rehabilitation of the new parking lot included clean-up of the area, spreading of millings, removal of trees and branches and painting of temporary traffic lines.

Trenton-Mercer Airport
- **Emergency Assistance** - On February 27, 2019, an aircraft touched down in the EMAS area while landing at Trenton-Mercer Airport. Emergency assistance was provided on Runway 6-24 in clean-up.

- **Sam Weinroth Road** – In conjunction with the Road Unit and Direct Hire, installation of curbing, approximately 1500 ft, across from the employee parking lot was completed.

- **Tower Road** - Resurfacing of the roadway was completed by the Road Unit.

- **North Parking Lot** – The Traffic Unit striped the North Parking Lot to accommodate eighty-five (85) parking spaces.

Right, Mason George Patas, along with Direct Hire installing curbing along Sam Weinroth Way @ Trenton-Mercer Airport in Ewing Township.
2019 Goal: Shared Services Program (SSP) - Implement opportunities with other Municipalities performing projects as requested. Continue to provide assistance as needed. *This goal has been accomplished.* The Division of Highways provides an Equipment Inventory Database and affords shared services of equipment, labor and other resources to local municipalities. This year, the following equipment was requested:

**Hamilton Township**
- Bucket Truck

**Hopewell Township**
- Tandem Dump Truck
- Grader

2019 Goal: Installation of snow fence, County-wide — *This goal has been accomplished.* Prior to the onset of winter, snow fence is installed on areas that have the potential of snow to blow back on the roadway surface causing hazardous driving conditions. Snow fencing is used as a barrier that forces windblown, drifting snow to accumulate in a desired place to reduce or eliminate potentially dangerous situations. The annual snow fence installation commenced on November 4th. Approximately, 10,000 feet of snow fence was installed county-wide.

2019 Goal: Snow Event Equipment and Staffing. *This goal has been accomplished.* The Mercer County Division of Highways strives to provide the efficient flow of traffic within the Mercer County Region during periods of inclement winter weather. The Highway Division coordinates with the Motor Pool Division which maintains a fleet of snow removal equipment to include trucks with plows and sanders, front-end loaders, motor graders, backhoes, power brooms, and track-type dozers.

Personnel from all Highway Division Units responded to eleven (11) storm events during the 2018-2019 winter seasons. Over 4,390 tons of pre-treated salt was utilized at a cost of $329,807.40. The amount spent on labor to staff the sanding and salting vehicles was $167,407.43 with an additional $4,348.30 for meals.

The total expense to ensure safe roadway conditions throughout the storms amounted to $501,563.13. The Highway Division continues to employ Weather Works, the weather reporting and projection service, which aids in the ability to be properly equipped, staffed and well organized.
2019 Goal: Stormwater Management Plan - Implement Stormwater Management Plan compliance requirement. This goal has been accomplished. In accordance with U.S. Environmental Protection Agency’s National Pollutant Discharge Elimination System (NPDES) monitoring program and the New Jersey Department of Environmental Protection (NJDEP) Municipal Stormwater Regulation Program (MSRP), storm control inlets were routinely swept and cleared of debris that would clog the stormwater drainage system. This year, the following maintenance activities were performed.

Inlet Inspections
- The annual inspection and maintenance of stormwater inlets require accurate record keeping. In the upcoming year, the Highway Division will have the resources to complete this task by using Global Positioning System [GPS] based mapping systems to inventory the inlets and assign unique identifiers to each structure. A detailed inspection is completed of each inlet and minor cleaning is completed as part of the normal annual inspection. This year, 2,694 inlets were inspected.
**Inlet Retrofit**
- Preventing debris from entering storm sewer systems, replacement of new inlets were required to stay in compliance with the Stormwater Management Program. This year, (94) steel face plates and (74) bicycle grates were replaced.

**Jet/Vac Maintenance**
- The County is mandated under the NJ Stormwater Rules to clean inlets of sediments and debris. Inlets located on county roadways are vacuumed out with Jet/Vac Trucks each year. This year, an average of 112 inlets were cleared and 60 yards of material collected and disposed.

**Street Sweeping**
- Street sweepers are utilized in conjunction with the Shade Tree Division to sweep and collect debris from county roadways. This prevents the material from entering the storm sewer system. Three [3] are currently in operation, which are each responsible for a section of the nearly 180 miles [425 lane miles] of county roadway. This year, over 1,175 yards of material was collected and disposed.

**Erosion Control/Herbicide**
- Roadside erosion control measures were utilized clearing drainage areas of debris. In conjunction with the Shade Tree Division 545 gallons of herbicide were used to control the growth of weeds.

**2019 Goal: Deer Carcass Removal – Provide removal and disposal of deer carcass on County roadways.** This goal has been accomplished. This service is provided through an outside vendor, Deer Carcass Removal Services, LLC. This year, approximately 233 carcasses were removed and disposed of properly.

**2019 Goal: Annual Fall Leaf Collection Program – Provide curbside leaf pickup on County roadways.** This goal has been accomplished. The Annual Leaf Collection Program commenced on October 21, 2019 and continued through the week of December 2, 2019. Residents were advised to rake leaves between their sidewalk and road curb. Specially-equipped unit trucks were dispatched to vacuum up the leaf piles.
Inspection of Projects and Permits – This goal has been accomplished. The Road Department currently employs two (2) Road Inspectors; Senior Road Inspector and Road Inspector, who inspect all roads under the jurisdiction of Mercer County. Under the American Recovery Reinvestment Act (ARRA), several resurfacing projects were completed on county roads. These projects were carefully inspected by the Road Inspectors. This year, there were 160 Road Permits issued throughout the County.

2020 Goals

2020 Goal: Fiscal Year 2020 Operating/Capital Budgets – Plan, develop and review potential cost savings in various areas.

2020 Goal: Maintenance of County Roadways – Conduct large-scale construction, resurfacing and repair projects. In conjunction with the County Engineer, implement an annual Roadway Resurfacing Program for identifying roadway deficiencies.
2020 Goal: Implement requirements of the Mercer County Stormwater Management Plan - In accordance with NJDEP rules and regulations, continue to comply with the Stormwater Management Plan.

2020 Goal: Snow and Ice Operation - Ensure county roadways are clear of snow and ice to allow safe vehicle passage - Provide removal of snow and ice from Mercer County roadways.

2020 Goal: Interdepartmental Assistance Program (IAP) – Provide resources to assist other agencies within the County.

2020 Goal: Municipal Assistance Program (MAP) – Continue to provide resources, labor and equipment to local municipalities for upgrades.

2020 Goal: Shared Services - Seek and Implement Opportunities with Municipalities. Mercer County currently has a Shared Services Agreement with the Hamilton Township Ecology Facility for the purpose of disposing leaves, brush and wood. The Agreement helps to reduce operational costs during times of routine maintenance as well as when natural disasters occur such as hurricanes. DOT&I will continue to seek additional opportunities with municipalities.

2020 Goal: Deer Carcass Removal Services, LLC – Continue to provide contracted services.

2020 Goal: Annual Leaf Collection Program - Continue to update the Annual Leaf Collection program and schedule.

2020 Goal: Equipment Inventory Database - Provide shared services of equipment to local municipalities.

2020 Goal: Training Opportunities - Continue to explore training opportunities and offerings.

2020 Goal: Continuity of Operations Plan (COOP) and Continuity of Government (COG) - Attend seminars and tabletop exercises to keep abreast of departmental plans.
Bridges & Culverts
DOT & I Facility, 300 Scotch Road, Building #1, West Trenton, NJ 08628

The Bridges & Culverts Division is responsible for the maintenance of 688 Bridges within local and county roadways. The State of New Jersey Bridge Inspection Program is essential to ensure the safety of those Mercer County-maintained bridges and culverts. The inspections determine Bridge sufficiency ratings, which the department uses to prioritize bridge rehabilitation or replacement projects.

Supervisors (2)
Richard L. Baker, III
Nicholas F. Longo

Senior Bridge Repairman (2)
Daniel R. Purdy
Roger A. Purdy, III

Bridge Repairman (1)
Michael J. Estok

Bridge Construction Workers (2)
Matthew C. Mesday
Samuel L. White, Jr.

Equipment Operator (1)
Daryll I. Price

Laborers (2)
Paul Ford
Thomas A. Sparano

Bridge Construction Worker Samuel White repairing bridge deck.
Employee Continuing Education

- Commercial Driver’s License (CDL) and Controlled Substance & Safety Regulations
- Defensive Driving
- Fire Safety
- Force America Training
- Hazmat Awareness/Hazmat Communication
- Lockout/Tagout
- Right-to-Know
- Shop & Tool Safety
- Work Zone Safety Conference
- CIDA Badge Training – Supervisor Nicholas F. Longo

2019 Accomplishments

2019 Goal: Complete State-mandated Priority Repairs for all Bridges greater than five (5) feet. This goal has been partially achieved and continues to be pursued. The State of New Jersey Bridge Inspection Program is essential to ensure the safety and stability of the 688 county maintained bridges and culverts. The inspections determine Bridge sufficiency ratings in which the department uses to prioritize bridge rehabilitation or replacement projects. 2018 was the 7th year of the new mandatory inspection program for all Bridges less than twenty (20) feet in addition to the inspection program for Bridges over twenty (20) feet. The bridge department also identifies Bridges to replace in-house. In 2019, the following repairs or reconstruction projects have been accomplished.

City of Trenton

- **Pictured above**: East State Street Bridge over Amtrak (Orphan Bridge #1149-164) – Removed and replaced pedestrian sidewalk that heaved 1½ inches. *(Priority II Repair)*
– Montgomery Street Bridge (Bridge #140.4) – Removal of flood debris trapped in front of pier; painted pedestrian handrails with black paint.
– Arm and Hammer Park, 1 Thunder Road – Constructed and installed rebar mats for boat launch behind stadium.

**East Windsor Township**
– Hankins Road Bridge (Bridge #961.3) – Repaired damaged guiderail due to a motor vehicle accident.
– Hankins Road Bridge (Bridge #961.4) – Repaired damaged guiderail due to a motor vehicle accident.

**Ewing Township**
– West Upper Ferry Road, #16 – Removal of guiderail that was deemed unnecessary by engineering department.
– West Upper Ferry Road, #248 – Removal of guiderail that was deemed unnecessary by engineering department;
– Nursery Road, #57 – Removal of guiderail that was deemed unnecessary by engineering department.
– Sam Weinroth Way @ various locations - Removal of approximately 1365 ft. of guiderail that was deemed unnecessary by engineering department.
– Lower Ferry Road Bridge (Bridge #415.2) – Patched and replaced missing stones on parapet wall as a result of a motor vehicle accident.
– Carlton Avenue Bridge (Bridge #441.6) – Widen drainage ditch to remove standing water from roadway.
– Ewingville Road Bridge (Bridge #442.1) – Repaired damaged guiderail end treatment as a result of a motor vehicle accident.
– Mercer County Office Park (formerly Youth Detention Center)– As part of the renovation of the former Youth Detention Center, the following renovations were undertaken by the Bridge Unit.
  o Removal of chain link fence and poles.
  o Construction of new parking lot; replaced with DGA.
  o Construction of a larger retention basin.
  o Backfilled behind new curbing and hydro seeded all top soiled areas.
Hamilton Township

- Quakerbridge Road Bridge (Bridge #645.2) - Removed and replaced pedestrian sidewalk.
- Basin Road Bridge (Bridge #6-540.5) – Repair damaged guiderail end treatment from traffic accident (Priority II Repair).
- Quakerbridge Road Bridge (Bridge No. 641.4) over Miry Run – Emergency Repair - Patched and sealed large deck spalls (Klockner Road Bridge (Bridge #641.2) – Patched and repaired bridge deck spalls.
- Klockner Road Bridge (Bridge #642.11) – Patched bridge deck spalls (Priority II Repair).
- Tattletown Road Bridge (Bridge #676.1) – Repaired damaged guiderail and filled washout with core stone (Residential Complaint).
- Hughes Drive Bridge (Bridge #641.8) – Removed flood debris from upstream and downstream channel (Priority II Repair).
- Yardville Allentown Road Bridge, #1025 – Removal of guiderail that was deemed unnecessary by engineering department.
- Yardville Allentown Road, #1099 – Removal of guiderail that was deemed unnecessary by engineering department.
Left to right, Bridge Repairman Michael J. Estok and Supervisor Nicholas F. Longo performing emergency repairs on Quakerbridge Road Bridge (Bridge No. 641.4) over Miry Run in Hamilton Township.

**Hightstown Borough**
- North Main Street Bridge (Bridge #860.6) – Patched bridge deck spalls (*Priority II Repair*).

**Hopewell Township**
Fiddlers Creek Road Bridge (Bridge #212.4) – Installed core stone due to washout (*Priority II Repair*).

*Pictured left:* Washington Crossing-Pennington Road Bridge (Bridge #214.4) – Patched large bridge deck spalls and headwalls; prepared for blacktop overlay.
Washington Crossing-Pennington Road Bridge (Bridge #216.6) Removed flood debris restricting water flow (Priority II Repair).

Scotch Road Bridge (Bridge #216.14) Replaced damaged guiderail due to a motor vehicle accident.

Dublin Road Bridge (Bridge #216.15) Repaired damaged guiderail due to a motor vehicle accident.

Dublin Road Bridge (Bridge #216.16) Repaired damaged guiderail due to a motor vehicle accident.

Old Mill Road Bridge (Bridge #230.8) Installed core stone in front of culvert.

Old Mill Road Bridge (Bridge #230.9) Removal of flood debris from roadway.

Wargo Road Bridge (Bridge #232.8) Repaired damaged guiderail due to a motor vehicle accident.

Woosamonsa Road Bridge (Bridge #236.7) Completed in house bridge replacement project.
– West Broad Street Bridge (Bridge #254.2) – Installed core stone due to washout; trimmed and removed brush and overgrowth around bridge.
– Province Line Road Bridge (Bridge #255.2) – Repaired damaged parapet wall damaged due to a motor vehicle accident; replaced concrete and installed new guiderail.
– Woodsville Road at CR 654 – Removal of guiderail deemed unnecessary by engineering department.
– Jacobs Creek Road, #32 – Removal of guiderail deemed unnecessary by engineering department.
– Jacobs Creek Road, #91 – Installed large core stone due to washout.
– Carter Road, #350 – Removal of guiderail deemed unnecessary by engineering department.

**Lawrence Township**
– Dempster Fire Training Center (*Fire School*), 350 Lawrence Station Road – Excavated area for the construction of the outdoor training classroom; installed clean stone and Sono Tubes for footings; cut trenches for electrical conduit.
– Princeton Pike Bridge (Bridge #543.6) – Installed core stone due to washout and repaired guiderail (*Priority 1 Repair*).
– Fackler Road Bridge (Bridge #543.19) – Removed flood debris blocking water flow (*Priority 2 Repair*).
– Bakers Basin Road Bridge (Bridge #543.1) – Installed core stone at new bridge.
– Province Line Road Bridge (Bridge #533.5) – Removed flood debris blocking water flow (*Priority II Repair*).

**Pennington Borough**
– Pennington Rocky Hill Road Bridge (Bridge#230.7) – Removed all lose concrete to prepare surface for blacktop overlay; removed large tree restricting water flow; remove large tree restricting water flow in spans one and two (*Priority II Repair*).
– Rosedale Park, 424 Federal City Road – Drained culvert, using a 6-inch water pump, to repair clogged drain.

**Municipality of Princeton**
– Alexander Street Bridge (Bridge #330.1) over Stony Brook – Preformed emergency bridge deck repairs; secured stringers and poured new concrete bridge deck;
– Mercer Road (Bridge #330.3) over Stony Brook– Removed flood debris blocking water flow. (*Priority II Repair*).
- Princeton Pike Pedestrian Walk Bridge (Bridge #330.8) – Removed flood debris blocking water flow (Priority II Repair).
- Alexander Street Bridge (Bridge #331.1) over Stony Brook – Dug test pits to locate gas and water mains for upcoming bridge project.
- Harrison Street Bridge (Bridge #360.2) over Carnegie Lake – Repaired damaged guiderail end treatment due to a motor vehicle accident; repaired drainage problem on road along the side of bridge using a mini excavator to cut new ditch for water to drain off road; filled new drainage ditch with clean stone.

**Robbinsville Township**
- Robbinsville Edinburg Road Bridge (Bridge #941.7) – Installed core stone due to washout.
- Circle Drive Bridge (Bridge #972.2) – Installed core stone due to washout and repaired damaged guiderail.
- Robbinsville Edinburg Road, #145 – Removed guiderail deemed unnecessary by engineering department.

**West Windsor Township**
- Meadow Road Bridge (Bridge #721.2) – Repaired damaged guiderail due to a motor vehicle accident (Priority II Repair).
- Southfield Road Bridge (Bridge #760.6) – Repaired damaged guiderail end treatment due to a motor vehicle accident (Priority II Repair).
- Southfield Road Bridge (Bridge #762.8) – Removed and replaced pedestrian sidewalk (Priority II Repair); Removed concrete sidewalk at the north bridge approach where it had settled a maximum of 2.5” inches and removed the south side concrete approach where it settled a maximum of 1.5” inches. Formed and installed rebar; poured 3 yards of concrete. Completed May 2, 2019 (Priority II repair).
- Old Trenton Road Bridge (Bridge #762.11) – Installed core stone at new bridge as per engineering department.
- Clarksville Road Bridge over Amtrak – Patched bridge deck spalls.
- Princeton Hightstown Road, #246 – Removal of guiderail deemed unnecessary by engineering department.
- Princeton Hightstown Road, #410 – Removal of guiderail deemed unnecessary by engineering department.
Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken.

- **East State Street, Hamilton Township** – Removed two (2) sets of three railroad tracks going across the road and filled in trench with blacktop.

2019 Goal: **Interdepartmental Assistance Program (IAP)** – Provide resources to other departments within the County – *This goal has been accomplished.* Equipment and labor was provided to other Mercer County agencies upon request. The following assistance was provided this year.

  - **North Salt Dome** - Provided use of equipment and manpower to perform various tasks at the North Salt Dome; loaded millings and assisted with the screen and crusher.
  - **Snow Removal and Ice Control Assistance** – The Bridge Unit responded to eleven (11) snow/ice storms during the 2018-2019 snow seasons.

2020 Goals

2020 Goal: **State mandated priority repairs**. The State of New Jersey Bridge inspections will continue to determine Bridge sufficiency ratings which the department will use to prioritize bridge rehabilitation or replacement projects. As directed by the Engineering Division, Priority Repairs will be completed.

2020 Goal: **Bridge Rehabilitation Projects** - Under continued direction from the Engineering Department, the bridge department will complete rehabilitation of the following bridge structures.

  - Pennington-Harbourton Road Bridge (Bridge No. 213.13) over a Tributary to Jacobs Creek.
  - Pennington Harbourton Road (Bridge No. 213.14) over Tributary of Jacobs Creek.
  - Woosamonsa Road (Bridge No. 236.4) over a Tributary to Baldwin’s Creek.

2020 Goal: **Maintenance** - Provide incidental maintenance to 688 structures, such as guiderail repair and debris.
2020 Goal: Respond to emergency calls and potential threats - Respond to emergencies and remediate threats as warranted.

2020 Goal: Interdepartmental Assistance Program (IAP) - Provide resources, equipment and labor to assist other County agencies.

2020 Goal: Snow Removal and Ice Control Assistance - Provide assistance to the Road Unit during snow/ice events.

2020 Goal: Training Opportunities – Continue to provide opportunities for professional development to department staff as well as update skills, knowledge and required certifications through classroom and on the job instruction, access to written manuals and books related professional memberships, conferences and workshops.
The Division of Mosquito Control provides safe, effective, environmentally friendly, and economic mosquito management for the County of Mercer. We provide continued surveillance of mosquitos to determine the threat of disease transmission and annoyance levels and then use environmentally sound integrated pest management techniques to keep mosquitos below those levels. Our personnel employ a variety of methods to reduce and manage mosquito populations throughout the County.

Supervisors (2)
Nicholas Indelicato, Supervising Mosquito Extermination
Michael J. Milewski, Supervising Mosquito Extermination

Senior Mosquito Extermination (2)
Christopher S. Borow
Ron C. Oppenheimer, Jr.

Inspector Mosquito Extermination (7)
William H. Cook
Ryan E. Dajczak
Kurt C. Neinstedt
Daniel P. Scozzaro

Stephanie Sparano
William J. Voorhees
Christopher C. Weber

Employee Continuing Education
American Mosquito Control Association (AMCA) annual conference
National Association of County and City Health Officials (NACCHO) Vector Summit
New Jersey Mosquito Control Association (NJMCA) annual conference
Pennsylvania Vector Control Association (PVCA) annual conference
New Jersey Department of Agriculture (NJDA) Plastic Pesticide Container Recycling Program
DEET Education Program, hosted by Mercer County Department of Human Services, Public Health Division
Northeast Regional Center for Excellence in Vector-Borne Diseases (NEVBD) Vector Biology Bootcamp
Office of Mosquito Control Coordination’s (OMCC) Annual Insecticide Resistance Workshop
Respirator fitting and training
Naloxone training
Defensive driving
CPR and AED
Chainsaw safety
Fire safety
### 2019 Accomplishments

**2019 Goal: Provide larvicide and adulticide control measures** – This goal has been accomplished. According the NJ State Climatologist the past 12 months have seen the 2\textsuperscript{nd} wettest November, 10\textsuperscript{th} wettest winter, 9\textsuperscript{th} wettest May, and the 7\textsuperscript{th} driest September (ONJSC, 2019). This summer was the 5\textsuperscript{th} warmest on record and we saw the 8\textsuperscript{th} warmest September, based on records dating back to 1895. The wet winter and precipitation in May led to the Unit being extremely busy in the preseason. This also led to the utilization of a helicopter for the third straight year to pretreat problem areas around the county. The timing of this operation jump-started the control of mosquitoes throughout the spring and into the summer. Coupled with the Unit’s “boots-on-the-ground” operations, we were able to get ahead of the early season mosquito broods. June and July saw average rainfall in the county while August and September were below average. The dry down in September shifted the operation focus to container abatement. There were a total of 656 service requests from residents, about 100 more than last year. The majority of our requests originated from Hamilton Township, which were attributable to container-inhabiting mosquito issues. June and August were our busiest months this year.

![NJ Monthly Precipitation Departures (October 2018 – September 2019)](image1)

![NJ Monthly Temperature Departures (October 2018 – September 2019)](image2)
The predictability of our floodwater habitats and routine larval surveillance campaigns enabled us to initiate proactive measures which target larval mosquitoes by minimizing adult emergence, thereby reducing the presence of disease vectors and nuisance mosquitoes. However, the frequent need to rapidly reduce larval populations of container-inhabiting mosquitoes presents a constant challenge for mosquito control operations, particularly in urban settings where increased housing density, number of containers present, and restricted site access all play a role. The time and resources it takes to perform door to door source reduction and larviciding campaigns are not always available, especially at the height of mosquito season. This led us to conduct truck-mounted Buffalo Turbine larvicide applications. This sprayer is equipped with an upgraded Micronair AU5000 rotary atomizer (identical to those used on aircraft), which allows us to cover large areas with larvicide quickly to reduce larval mosquito populations before they become biting adults.

Above: (Left) Group photo taken during area-wide larviciding campaign in Trenton. (Right) Crews preparing for an area-wide larviciding mission.
In response to local mosquito populations, mosquito inspectors used the following amounts of pesticide:

- 3311 pounds of VectoPrime FG
- 885 pounds of VectoMax
- 115 pounds Spheratax
- 5 pounds of VectoBac G/GS
- 387 Altosid XR briquettes
- 365 Altosid briquettes
- 450 pounds of Altosid pellets/granules
- 10 pounds of Natular XRG
- 360 Natular XRT tablets
- 65 Natular DT tablets
- 30 gallons of Co-Co Bear Oil
- 150 pounds of VectoBac WDG
- 50 pounds of VectoLex WDG
- 46 gallons of Anvil
- 50 gallons of Zenivex E4
- 5 ounces of Demand CS

Larvicide treatments took place countywide on approximately 1,400 acres of land during 800+ inspections. Adulticide treatments covered approximately 5,800 acres of land over the course of 24 area-wide applications which were conducted throughout the county.

- May adulticide treatments: 5/10, 5/24, 5/31
- June adulticide treatments: 6/7, 6/14, 6/22, 6/28, 6/29
- July adulticide treatments: 7/6, 7/13, 7/20, 7/26
- August adulticide treatments: 8/2, 8/9, 8/15, 8/23, 8/30
- September adulticide treatments: 9/4, 9/12, 9/13, 9/19, 9/20, 9/27
- October adulticide treatments: 10/11

Routine larval surveillance efforts yielded a total of 241 samples which inspectors brought to the lab for identification to species. Larval samplings coupled with trapping efforts help to quantify the efficacy of our work.

Our annual light trap program for adult mosquito surveillance provides us information on population dynamics both presently and historically at 14 locations around the county. These traps allow us to make insightful decisions regarding the implementation of various control methods.
2019 Goal: Respond effectively to service requests – This goal has been accomplished. A total of 656 service requests were received and responded to in 2019. Interestingly, we have observed an increase in service requests from East Windsor and Lawrence following community groups on social media who spread the word about mosquito control.

Service Requests By Month 2019

Service Requests By Municipality 2019
2019 Goal: Disease Surveillance – *This goal has been accomplished.* - During the 2019 season, the Unit carried out extensive vector surveillance operations. A total of 546 pools containing 5,276 mosquitoes were submitted for disease testing from more than 200 locations throughout the county. Of the pools submitted, 8 returned positive for West Nile Virus (WNV), which is down dramatically from last year’s record breaking year. No Eastern Equine Encephalitis (EEE) was detected in the county, despite increased activity elsewhere in the state. Other pathogens tested for included Saint Louis Encephalitis (SLE), Jamestown Canyon Virus (JCV), Lacrosse Encephalitis (LACV), Chikungunya (CHICKV), Zika (ZIKV) and dengue virus (DENV).

![Graph showing West Nile Virus Positive Mosquito Pools, NJ (2018 - 2019)](image)

2019 Goal: Increase Training of Staff – *This goal has been accomplished.* The Unit attended the New Jersey Mosquito Control Association’s 106th annual convention for training and to update the necessary pesticide license credits. Unit staff also participated in the NJDA Plastic Pesticide Container Recycling Program and the DEET Education Program, hosted by the Mercer County Department of Health. Information on products, product use, and vector-borne disease prevention strategies were presented by Judi Anderson from the Consumer Specialty Products Association. The Unit Supervisor, Nick Indelicato, attended the Vector Biology Bootcamp, a comprehensive public health training program created by the Northeast Regional Center for Excellence in Vector-Borne Diseases.

Other training acquired by our staff includes an insecticide resistance testing workshop, respirator fitting and training, Naloxone training, defensive driving, CPR and AED, chainsaw safety, and fire safety. Training that is up to date includes hazardous material safety, forklift certification, and shop and tool safety.
2019 Goal: Tick Surveillance – *This goal has been accomplished.* Tick biology and ecology as well as tick-borne illness are incorporated into mandatory training seminars used to maintain pesticide applicator license credits. The Unit will continue to keep a watchful eye on the movement of tick species and the status of legislation which would charge county mosquito control operations with the responsibility of tick control. The presence of the Asian Longhorn tick was confirmed in Mercer County in 2018, and has now been confirmed in several more counties since then. The Gulf Coast tick has been expanding its range northward which has captured the interest of the New Jersey vector control community.

2019 Goal: Water Management – *This goal has been accomplished.* The Unit completed 200+ water management projects throughout the county including deconstructing beaver dams, unclogging ditches and cleaning/unclogging detention basins.

*Above, Mosquito Inspectors work to notch a beaver dam.*
Meetings attended:
- American Mosquito Control Association (AMCA)
- National Association of County and City Health Officials Vector Summit (NACCHO)
- New Jersey Mosquito Control Association (NJMCA)
- Pennsylvania Vector Control Association (PVCA)

2019 Goal: Public Outreach and Education – *This goal has been accomplished.* Staff attended public events helping to increase public awareness and emphasizing the importance of mosquito control, empowering them to take corrective actions to reduce mosquito populations on their own properties.

Overall, public outreach was strongly emphasized as we distributed educational materials. In total, 1000+ informative pamphlets were circulated to residents of Mercer County at community events, public health departments, libraries, and various households while conducting service requests.

New this year, the Unit released a promotional video for the County’s social media pages to help inform our residents about the basics of our operations, and what to expect from us should they require our services.

*Above, 2019 Mosquito Control Unit's promotional video.*
Our new display board illustrates the various types of household containers that can hold water. These commonly used containers are capable of holding pockets of water, which creates suitable habitat for larval mosquitoes. During public outreach events, mosquito larvae are placed in these items to help create a lasting impression for the residents.

Functions attended include:
- City of Trenton’s Youth Fishing Derby
- Mercer County’s 4H Fair
- Master Gardeners of Mercer County’s 15th annual Insect Festival

Above, updated public outreach display board.

Above, Mosquito Inspector Stephanie Sparano hosting a display table for Mosquito Control at the Mercer County 4H Fair.
2020 Goals

2020 Goal: Increase training of staff – Continue professional training for technical field staff during 2020. Provide opportunities for field staff to become more involved at the state and regional levels.

2020 Goal: Acquire additional funding through grants – Continue to pursue avenues on how to supplement operational and research funding to investigate new control and surveillance measures for mosquito control.

2020 Goal: Respond to service requests – Increase the efficiency of responding to service requests from residents, and reduce the need for recurrent inspections.

2020 Goal: Provide larvaciding control measures – Continue to provide efficient and efficacious larval control measures for the residents of Mercer County.

2020 Goal: Provide adulticide control measures – Continue to provide efficient and efficacious adult control measures (if needed) for the residents of Mercer County.

2020 Goal: Assist state and regional programs in suppression of the Asian Tiger Mosquito (ATM) – Continue to investigate new and innovative measures to control the ATM and provide logistic support and guidance to support other programs that may need our help.

2020 Goal: Tire Removal Program – Expand and make this service available to more residents that are in need and cannot recycle or remove their own tires.

2020 Goal: Water Management Program – Provide additional services to retention/detention basins, ditches, and streams that are in need of clearing to ensure flow during the off-season.

2020 Goal: Subject-matter leadership – Under the Supervisor’s guidance, the Unit staff will continue to disseminate operational and biological information on mosquitoes through scientific publication. Sharing our findings and trials and tribulations with other mosquito control programs helps advance operational knowledge and better addresses health related hazards.

2020 Goal: Tick Surveillance – We will continue to include tick biology in our training programs, and track legislation mandating tick control is conducted by county mosquito control programs.

References:

Motor Pool
DOT & I Facility, 300 Scotch Road, Building #4, West Trenton, NJ 08628

The Motor Pool Division plans for, acquires, maintains and disposes of the County’s fleet of motor vehicles, buses, heavy equipment, and other vehicular equipment in support of the transportation and service delivery needs of all County departments. The Motor Pool Division manages a $6,303,000 million annual budget for fleet services and is responsible for approximately 700 vehicles, vans, pick-up trucks and various specialty vehicles/equipment assigned to County departments. Motor Pool ensures the safe, cost-effective management of the County’s vehicles/equipment including purchase support, vehicle disposal and auction, Department of Motor Vehicle (DMV) processing and automated fuel sites.

Supervisors (2)
Vincent Russo, General Supervising Mechanic

Administrative Staff (1)
Jodi Hawryluk, Office Services Manager

Supervising Mechanic II (3)
Charles C. Beauchamp
William H. Buck
Edward Kaczor

Senior Mechanic Diesel (3)
Edward Kaczor
Stacy Lawrence
Brian J. Simiscsak

Senior Mechanics (4)
Richard A. Carnevale
Joseph L. Fedor, Jr.
Glenn B. Holcombe
Christopher P. Trail

Mechanics (5)
Thomas Adams
Michelet Fleurant
Carmen C. Gee
Mark A. White
Jalen Dunn

Senior Welder (1)
Mark Shropshire

Storekeeper (1)
Gregory K. Reid

Employee Continuing Education

The following training classes were attended by Motor Pool:

- Defensive Driving
- Fire Safety
- Fire Extinguisher
- Forklift
- Lockout/Tagout
- Shop & Tool Safety
- Hazmat Awareness/Hazmat Communication
- CDL Controlled Substance & Safety Regulations
2019 Accomplishments

Administration

2019 Goal: Complete 2019 Capital Budget - This goal has been accomplished. Motor Pool is responsible for the preparation of Capital Budget Requests submitted for the purchase of vehicles and equipment for all County Departments. Meetings were held with various departments to identify and assess specific needs. A 2019 Capital Improvement Plan was prepared and submitted for approval by the Mercer County Board of Chosen Freeholders. The total approved Fiscal Year 2019 Capital for the Division of Motor Pool is $5,860,000.

2019 Goal: Utilizing New Jersey State Contracts for Cost Effective Purchasing - This goal has been accomplished and continues to be pursued. Motor Pool purchases vehicles and equipment. The New Jersey State Contract provides effective cost savings to the County. State Contracts were used for the purchase of the following vehicles/equipment:

- (6) Ver-Mac Message Sign Boards
- (1) Chevrolet Tahoe (non-police package)
- (5) Chevrolet Tahoe (police package)
- (11) Ford F250 trucks
- (2) Ford F450 trucks with dump body
- (1) Ford F350 utility trucks
- (7) Ford Police Interceptor SUV

- (5) Dodge Journey
- (1) Ford Fusion
- (1) Chevrolet Colorado
- (1) Dodge Ram 1500 Tradesman
- (1) Chevrolet Express Cargo Van
- (2) Dodge Durango

2019 Goal: Utilize Middlesex County Educational Services Commission Co-Op - This goal has been accomplished and continues to be pursued. The following equipment was purchased through Middlesex County Educational Services Commission Co-Op:

- (1) Case International Tractor Model 140A
- (1) Kubota RTV
- (1) Bobcat Excavator

- (1) Bobcat Skid Steer
- (2) New Holland Powerstar Roadside Mowers
2019 Goal: Advertise for bid and award contract for the purchase of new vehicles and equipment - This goal has been accomplished. The Mercer County Purchasing Department advertised, received bids and awarded the contracts for the following purchases of vehicles/equipment:

- (3) Prisoner Transport Vans
- (1) Alamo 18” Machete Flail
- (1) Falcon FME Asphalt Hot Patcher
- (1) Case 721 Wheel loader with snow blower attachment
- (1) F550 Tire Service Truck
- (2) F550 Box Trucks
- (2) Juror Transportation Buses
- (2) Inmate Transportation Buses
- (1) Stump Cutter
- (1) Shuttle Transportation Bus

*Above left, Snow Blower; above right, two (2) roadside mowers; below, Case International Tractor Model 140A with Snow Blower.*
2019 Goal: Coordinate two (2) Annual Surplus Auctions - *This goal has been accomplished.* Two (2) successful on-line surplus auctions were held, one in the spring and one in the fall. Included were cars, trucks, heavy equipment and various small pieces of equipment that the County no longer needs or uses. Vehicles confiscated by the Mercer County Prosecutor’s Office are also sold at the auction through an on-line bidding process. This year, a total of 112 items were sold.

2019 Goal: Provide Emergency Services - *This goal has been accomplished.* Motor Pool employees handled all emergency services including but not limited to: towing, inclement weather and breakdowns.

2019 Goal: Provide Interdepartmental Assistance to other departments - *This goal has been accomplished.* Motor Pool provides Interdepartmental Assistance to other Mercer County agencies/divisions as requested. In 2019, Motor Pool provided assistance to the following agencies/divisions:

- **Correction Center** - Delivered diesel fuel, which was used for generators.
- **Highways** - Provided fuel and tire services, including on-site, to vehicles and/or equipment.
- **Prosecutor’s Office** - Provided towing services on a 24/7 basis for vehicles.
- **Sheriff’s Department** - Provided towing services on a 24/7 basis for vehicles; K9 Training.
- **Trenton-Mercer Airport** - Provided fuel and tire services, including on-site, to vehicles and/or equipment; Maintenance and repairs of all equipment used for snow removal.

**Other Accomplishments**

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

- **Take your Child to Work Day** - Motor Pool staff participated in the annual event.
- **New Jersey Motor Vehicle Inspector License Upgrades** - One Motor Pool employee earned their NJ DMV Inspector License. To earn the upgrade, he attended a one-day training class held at Burlington County College followed by a performance test at the DOT&I Complex by a New Jersey Motor Vehicle representative. Motor Pool now has ten licensed Inspectors for gasoline and 13 licensed Inspectors for diesel.
2020 Goals

- **2020 Goal: Operating and Capital Budgets** – Complete 2020 Budgets and continue to look for ways to reduce expenses.

- **2020 Goal: Utilize Contracts for Purchasing** – Continue to look for opportunities to save County funds by utilizing advantageous pricing offered by the New Jersey State Contract, Middlesex County Educational Services Commission Co-Op, Somerset County Co-Op, Sourcewell and National Intergovernmental Purchasing Alliance (IAP).

- **2020 Goal: Coordinate 2 on-line Surplus Auctions** – In conjunction with the Prosecutor’s Office, coordinate 2 auctions of surplus and confiscated vehicles.

- **2020 Goal: Interdepartmental Assistance Program (IAP)** – Continue to provide assistance to other Mercer County Agencies/Divisions as requested.

- **2020 Goal: Provide Emergency Services** – Continue to provide emergency services to all County Departments.

- **2020 Goal: Update Current Fleet Management System** – This project is ongoing and will be done as part of the County Asset Management System.

Above, Senior Mechanic Joseph A. Fedor, Jr., repairs a Juror Bus for the Sheriff’s Department.
Shade Tree Unit
DOT & I Facility, 300 Scotch Road, Building #1, Ewing, NJ 08628

The Shade Tree Division is responsible for the maintenance of trees, weeds, grass and roadside vegetation within Mercer County’s right-of-way. Shade Tree also maintains grass and weed control on sixteen (16) county-maintained traffic islands and guiderail, servicing 180 miles of county roadway.

Senior Tree Climber William (Bill) Rill.

Supervisors (2)
William Voorhees, General Supervisor of Trees
Thomas M. Bigley, Supervisor of Trees

Senior Tree Climbers (2)
William B. Rill
Jason Rogers

Tree Trimmers (2)
John Mulryne
Corey Thomas

Tree Climbers (2)
Michael J. Douglass
Ryan T. Elder

Tree Maintenance Worker (1)
Christian Bulow
Employee Continuing Education

- 94th Annual New Jersey Shade Tree Federation Conference
- Roadside and Right-of-Way Management
- Hazardous Tree Identification
- Tree Planting and Installation
- Forklift Certification
- Initial Right to Know
- Work Zone Safety
- Large Tree Climbing and Rigging
- Emerald Ash Borer Conference
- Diseases and Pests of Trees
- Chainsaw Safety

Above, Tree Climber Michael Douglass hauling a tree stump away at Mercer Cemetery, Trenton
2019 Accomplishments

Tree City USA – The Arbor Day Foundation
2019 Goal: Participate in the Annual Arbor Day Foundation – This goal has been accomplished. On April 26, 2019, during the annual Take Your Child to Work Day, two (2) trees were planted at the McDade Administration Building and the DOT & I Facility.

Picture above, the Shade Tree Unit, along with Deputy Administrator Aaron T. Watson plant a tree at the McDade Administration Building, located at 640 South Broad Street in Trenton.

Pictured below, Deputy Administrator Aaron T. Watson poses with the kids after the tree planting at the DOT & I Facility located at 300 Scotch Road, Ewing Township.
Roadside Vegetation Management Program
2019 Goal: Continue to eliminate or control vegetation through a variety of strategies including mowing, brush cutting and use of herbicides. This goal has been accomplished through the following integrated Roadside Management Program. Approximately 545 gallons mixed, and 22 gallons concentrated of weed killer was applied to Mercer County roadways, servicing 180 linear miles.

Traffic Control Devices Visibility
2019 Goal: Provision of routine maintenance on traffic control devices blocked by brush, trees, grass or weeds. This goal has been accomplished through the routine maintenance of traffic control devices.

Sign Visibility
2019 Goal: Improvement of visibility on the County’s roadway network by the removal of grass, weeds, brush and tree branches that cause obstruction in the view of the motoring public. This goal has been accomplished through the removal of overgrown vegetation obstructing the view of motorists.

Drainage
2019 Goal: Comply with the regulation set forth by the New Jersey Department of Environmental Protection’s [NJDEP] Stormwater Management Plan. This goal has been accomplished through the enforcement of control measures with clearing drainage areas of weeds and debris.

Roadside Trees
2019 Goal: Removal of dead or damaged trees. This goal has been accomplished through the removal of trees within the County right of way that endanger the traveling public.

Guiderail
2019 Goal: Control measures for overgrown vegetation along county maintained guiderail segments. This goal has been accomplished through the enforcement of applying herbicide.

Traffic Control Devices Visibility
2019 Goal: Provision of routine maintenance on traffic control devices blocked by brush, trees, grass or weeds. This goal has been accomplished through the routine maintenance of traffic control devices.

Sign Visibility
2019 Goal: Improvement of visibility on the County’s roadway network by the removal of grass, weeds, brush and tree branches that cause obstruction in the view of the motoring public. This goal has been accomplished through the removal of overgrown vegetation obstructing the view of motorists.
2019 Goal: Routinely inspect 180 linear miles of county maintained roadways for overhanging tree branches and dead or dangerous trees threatening the cartway. This goal has been accomplished and remediation was undertaken and warranted. This year, the following services were completed:

– **Tree Removal**: 115, 10” or larger trees that were deceased or storm damaged;

– **Tree Trimming**: 1,500 trees, providing sight clearance for the safety of the traveling public;

– **Roadway Clearance**: removed over 450 limbs;

– **Tree Stumps**: Removed over 43 tree stumps;

– **New Trees**: Planted 2 trees.

**Storm Cleanup – North Main Street, Pennington Borough – July 7, 2019**
2019 Goal: Respond to requests from local municipal agencies within Mercer County for assistance with local road maintenance and rehabilitation projects. This goal has been accomplished. The Shade Tree Unit provided assistance to local municipalities for the removal of dead or dangerous trees, trimming, and provided weed control to local municipalities. This year assistance was provided to the following local municipalities:

- Ewing Township
- Hightstown Borough
- Hopewell Borough
- Hopewell Township
- Municipality of Princeton

- Pennington Borough
- Robbinsville Township
- West Windsor Township
- Trenton
Ewing Township – Municipal Assistance
On July 18, 2019, the National Weather Service reported that straight-line winds were to blame for storm damage in Ewing Township. A thunderstorm produced wind gusts of 80 mph. Following the storm, the Shade Tree Unit provided assistance with storm clean-up, fallen trees and debris.

*Above, Pennsylvania Avenue and Somerset Street, July 18, 2019, Ewing Township; below, E. Delaware Avenue, July 21, 2019, Pennington Borough.*
Hamilton Township – Municipal Assistance
On April 15, 2019, the Shade Tree Unit was dispatched to remove downed trees from a torrential rain storm that produced high winds on Nottingham Way in Hamilton Township. On Whitehorse-Mercerville Road, limbs were removed from the traffic signal.
Mercer Cemetery at Trenton, 44 S. Clinton Avenue – As part of restoration of Mercer Cemetery at Trenton, the Shade Tree Unit trimmed 45 trees and removed 20 trees as part of this project.

Mercer Cemetery at Trenton was considered a premier burial location by Trenton’s elite in mid-1800s but had fallen into disrepair in recent years. Restoration of this historic treasure on South Clinton Avenue is being spearheaded by a recently appointed Board of Trustees with support from the County of Mercer and City of Trenton.
2019 Goal: Provide resources to other departments within the County. This goal has been accomplished. This year, the Shade Tree Unit provided resources, equipment and labor to the following departments/divisions:

- Bridge Unit
- Central Maintenance
- Dempster Fire Academy (Fire School)
- Detention Center
- Division of Highways
- Correction Center
- Court House
- Engineering
- Human Services
- Library Services
- Mercer County Community College [MCCC]
- Mercer County Library
- Mercer County Vo-Tec
- Park Commission
- Prosecutor’s Office
- Trenton - Mercer Airport (TTN)
- Mercer County Office Park

Departmental Assistance – Engineering Division

Above is the Alexander Road Bridge in the Municipality of Princeton. The Shade Tree Unit removed trees to facilitate the utility relocation for a bridge reconstruction project undertaken this year by the Engineering Division.
Departmental Assistance
Prosecutor’s Office, 1589 Lamberton Road, Trenton

The Shade Tree Unit provided Departmental Assistance to the Prosecutor’s Office, located at 1589 Lamberton Road in Trenton, with the removal of trees, shrubbery and debris in the rear of the facility, providing a clear pathway; pictured above is before, and below is after.
2019 Goal: Assist Electrical Utility Operations in High Voltage Areas. This goal has been accomplished. Assistance was provided to Nelson Tree Service and Public Service Electric & Gas (PSE&G) with the removal and trimming of trees interfering in high voltage areas, resulting in a total of twenty (20) days.

2019 Goal: Provide tree clearance for milling and resurfacing operation. This goal has been accomplished. Working in conjunction with the Road Division, the clearance and removal of trees, brush and roadside vegetation is removed prior to commencement of the milling and resurfacing project providing clearance for the milling machine. This year, seventeen (17) milling and resurfacing projects were completed.

2019 Goal: Bridges & Culverts - Provide unit support to Bridges & Culverts. This goal has been accomplished. The Shade Tree Unit provided maintenance to 680 bridge structures routinely inspected for overhanging branches, and dead or dangerous trees threatening the structure’s cartway, overgrown brush and weeds. Remediation was undertaken and warranted. In addition, the Unit assisted with service requests for debris clearance in roadways.

2019 Goal: Snow Removal and Ice Control - Provide assistance to the Road Unit during snow events. This goal has been accomplished. The Shade Tree Unit provided assistance during eleven (11) storm events during the 2018-2019 winter seasons.

2019 Goal: Respond to emergency calls and potential threats – This goal has been accomplished. Over 200 emergency calls were received from various local Police Departments and residents.

Above, Shade Tree Unit topping out an Elm Tree located on Washington Road in the Municipality of Princeton.
2019 Goal: Provide maintenance on county-maintained traffic islands located throughout Mercer County. This goal has been accomplished. Mercer County currently maintains eighteen (18) traffic islands throughout the Mercer County Region. Grass mowing and weed control was scheduled and carried out routinely. This year, routine maintenance was provided on the following traffic islands:

**Ewing Township**
- Bear Tavern and Jacobs Creek Roads
- Bear Tavern Road (@ bus turn around)
- DOT & I Complex, 300 Scotch Road
- Olden Avenue (@ Princeton Avenue)
- Ewingville and Federal City Roads

**Hamilton Township**
- Quakerbridge Road (big oak tree)
- South Broad Street (near Highland Avenue)
- Arena Drive (@ Bradford Avenue)

**Hopewell Township**
- Rosedale and Elm Roads
- Washington Crossing Road (@ Reed Road)
- Pennington Centerville Road (@ County Line)

**Lawrence Township**
- Port Mercer and Province Line Roads
- Groversmill Road Extension

**West Windsor Township**
- Princeton-Hightstown and South Mill Roads
- Old Trenton Road (@ Mercer County Vocational School)
- Edinburg and Village Road East

**Robbinsville Township**
- Robbinsville-Edinburg Road (across from High School)

**Pennington Borough**
- South Main Street (@ Pennington-Lawrenceville Road)

**City of Trenton**
- Parkside Avenue (@ West State Street)
Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

**Emerald Ash Borer (EAB)**

Emerald Ash Borer (EAB) is an invasive species that infests and subsequently kills ash trees in North America. It was first found in Michigan in 2002 and EAB has since killed millions of ash trees. EABs typically emerge as adults in May or the beginning of June, leaving behind D-shaped exit holes as seen below. The female adult EAB feeds on the margins of the ash leaf. The larvae feed on the cambium, which cuts off the nutrient supply to an affected tree. Trees damaged by EABs can be dangerous if falling branches hit people, buildings or vehicles. Due to an infestation, ninety-five (95) Emerald Ash Borer trees were cut down and removed.

2020 Goals

**2020 Goal: Emerald Ash Borer (EAB)** - Coordinate and implement the removal of diseased Ash Trees with EAB infestation. This will be a continuing project over the next several years. In addition, we will be contracting with a consulting firm to conduct a tree inventory of all trees with a 5-inch diameter or greater within our right of ways. We will then have a certified Arborist identify each tree to species and perform a risk analysis to prioritize those which pose the greatest safety concern.

**2020 Goal: Routine Maintenance** - Provide sight clearance for traffic signals and intersections on County roadways.
2020 Goal: **Roadside Vegetation Management Program** - Eliminate or control vegetation through a variety of strategies including mowing, brush cutting and use of herbicides.

2020 Goal: **Milling and Resurfacing Operation** - Coordinate 2020 Milling and Resurfacing Projects with the Division of Roads to ensure proper clearance of trees, brush and roadside vegetation.

2020 Goal: **Bridges & Culverts** - Provide unit support to Bridges & Culverts.

2020 Goal: **Snow Removal and Ice Control** - Provide assistance to the Road Unit during snow events.

2020 Goal: **Municipal Assistance Program (MAP)** - Provide resources, equipment and labor to local municipalities.

2020 Goal: **Interdepartmental Assistance Program (IAP)** – Provide resources to other departments/divisions with the County.

2020 Goal: **Emergency Calls and Complaints** - Respond to emergency calls and potential threats.


2020 Goal: **Traffic Islands** - Provide maintenance on the 16 county-maintained traffic islands located throughout Mercer County.

2020 Goal: **Training Opportunities** – Continue to explore training opportunities and offerings for employees.

Above, Tree Trimmer John Mulryne removed a large tree on West Upper Ferry Road in Ewing Township.

Above, Tree Maintenance Worker Christian Bulow removed a large tree on CR 654 in Hopewell Township.
Traffic & Signal Unit
DOT & I Facility, 300 Scotch Road, Building #1, Ewing, NJ 08628

The Traffic & Signal Division seeks to maintain safe travel for residents of Mercer County with continued upgrades and positive maintenance of signs, pavement markings and traffic signals. This is accomplished by providing the latest materials, equipment, technology and standards. We also make this possible by using good maintenance practices and professional engineering judgment.

**Supervisors (2)**
Paul Scherer, General Supervisor Traffic Maintenance
Mark Mattaliano, Supervisor Traffic Maintenance

**Senior Traffic Signal Electrician (1)**
William Heil

**Traffic Signal Electrician (1)**
Richard E. Danley

**Traffic Maintenance Worker (4)**
David Cifelli
Alfred Council
Michael S. Gilleo
Clorie Jones

**Employee Continuing Education**
- Back Safety/Material Handling Training
- CDL Controlled Substance and Safety Regulations Training
- Chain Saw Safety Training
- CPR Training
- Confined Space Training
- Defensive Driving
- Fall Protection Training
- Fork Lift Certification
- IMSA Work Zone Safety Certification
- IMSA Traffic Signal Level Technician Level 1 Certification
- IMSA Traffic Signal Technician Level 2 Certification
- Lock Out / Tag Out Training
- Protection Shop and Tool Training
- Reasonable Suspicion Training for Supervisors - DOT Signs and symptoms awareness
- Right to Know
- Trafficware Model 2070 Controller Training
2019 Accomplishments

2019 Goal: Perform maintenance on County maintained electrically operated traffic control devices and bridge lighting - *This goal has been accomplished.* All device and lighting locations were inspected and preventative maintenance was performed to assure proper operation.

2019 Goal: Install video detection equipment at various intersections - *This goal has been accomplished.* The Traffic & Signal Division has been installing video detection systems to detect vehicles and bicycles at traffic signals. Video detection systems replace in-pavement loop detector systems. In addition to the installation of new systems, the Traffic & Signal Division provides maintenance such as necessary adjustments and cleaning of the lens. Video detection systems were installed or upgraded at the following intersections:

**Hamilton Township**
- Sloan Avenue and Fairlawn Avenue
- South Olden Avenue and Cedar Lane
- Sweetbriar Avenue and Whitehead Road

**Hopewell Township**
- Pennington-Lawrenceville Road and Blackwell Road
- Pennington-Lawrenceville Road and Stephenson Road

2019 Goal: Replace incandescent halogen bulbs with energy saving LED (Light Emitting Diodes) - *This goal have been partially accomplished and continues to be pursued.* The Traffic & Signal Division is in the process of upgrading many of our traffic signals. As part of this improvement project, the signal heads are being upgraded to replace the existing incandescent bulbs with Light Emitting Diodes (LED) using less electricity and have a significantly longer useful life.
2019 Goal: Respond to emergency service calls. This goal has been accomplished. The Traffic & Signal Division responds to emergency calls from municipal police departments as well as residential complaints. Emergencies included the following:

- Malfunctioning Traffic Control Devices;
- Motor Vehicle Accidents, damage to traffic signal standards, control boxes, and signage;
- Emergency Road Closures, placement of directional signage, cones, barrels and barricades.

2019 Goal: Maintenance of signage on County roadways. Perform routine maintenance of signage on county roadways. This goal has been accomplished. Traffic signs and posts were replaced when damaged.

2019 Goal: Replace guide, regulatory and warning signs to meet FHWA retro-reflectivity standards – This goal has been partially accomplished. The Traffic & Signal Division replaced signs and installed break-away sign posts along County roadways. The following roadway segments were completed this year:

**County Route 526**
- Robbinsville-Allentown Road, from the US Route 130 to the Allentown Line.

**County Route 533**
- Whitehorse Avenue, from Kuser Road to the US Route 206 Circle.
- Whitehorse-Mercerville Road, from Klockner Road to Kuser Road.

**County Route 535**
- East State Street, from Klockner Road to Whitehead Road.

**County Route 539**
- Old York Road, from Eastwood Drive to Airport Road.

**County Route 546**
- Franklin Corner Road, from Lawrence Road to Brunswick Pike.

**County Route 569**
- Carter Road, from Hopewell Borough Line to East Broad Street.

**County Route 571**
- Princeton-Hightstown Road, from Old Trenton Road to Rabbit Hill Road.

**County Route 635**
- East State Street, from North Clinton Avenue to Raoul Wallenberg Avenue.
**County Route 636**
- Ewingville Road, from Eggerts Crossing Road to Federal City Road.

**County Route 638**
- Grovers Mill Road, from Brunswick Pike to Quakerbridge Mall Entrance.
- Clarksville Road, from North Post Road to Princeton-Hightstown Road.

**County Route 639**
- Arctic Parkway, from North Olden Avenue to Spruce Street.

**County Route 641**
- Edinburg-Windsor Road, from Old Trenton Road to South Lane.

**County Route 650**
- Lalor Street, from Lamberton Street to South Broad Street.

**Raoul Wallenberg Avenue**
- South Clinton Avenue to East State Street.

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2019 Goal: Install thermoplastic intersection pavement markings on selected county roadways. This goal has been accomplished. Thermoplastic traffic markings were applied at the following intersections.

*New traffic pattern lane marking installation on Franklin Corner Road in Lawrence Township.*
Thermoplastic Crosswalk Markings connecting to ADA Ramps locations throughout Mercer County.

**City of Trenton**
- East State Street and North Clinton Avenue
- East State Street and Raoul Wallenberg Avenue

**East Windsor Township**
- North Main Street and Town Center Road

**Ewing Township**
- Lower Ferry Road and Carlton Avenue
- Lower Ferry Road @ Fisher School
- Olden Avenue and Capital Plaza
- Olden Avenue and Parkside Avenue
- Olden Avenue and Prospect Street

Traffic Maintenance Workers Mike Gilleo and Alfred Council complete the mark-out process.
Hamilton Township
- Arena Drive and Gropp Avenue
- Arena Drive and Hempstead Avenue
- East State Street Extension and Klockner Road
- East State Street Extension and Whitehead Road
- Kuser Road and Leonard Avenue
- Kuser Road and D Amico Avenue
- Quakerbridge Road and Pollman Avenue
- Whitehorse Avenue and Arena Drive
- Whitehorse Avenue and Kinter Avenue
- Whitehorse Avenue and Kuser Road
- Whitehorse Avenue and Magnolia Avenue
- Whitehorse Avenue and Olden Avenue
- Whitehorse Avenue and Orchard Avenue
- Whitehorse Avenue and Whitehorse-Hamilton Square Road

Hightstown Borough
- North Main Street and Sunset Avenue
- North Main Street and Van Rensaller Avenue
- North Main Street and Wilson Avenue
- North Main Street and Wyckoff Mills Road

Hopewell Township
- Carter Road and Pennington-Rocky Hill Road
- Ingleside Avenue and NJ Route 31

Lawrence Township
- Carter Road and Lawrenceville-Hopewell Trail
  - Franklin Corner Road and Princeton Pike

Pennington Borough
- South Main Street and Academy Avenue
- South Main Street and Curlis Avenue
- South Main Street and Ingleside Avenue
- South Main Street and Wellington Avenue
- West Delaware and Burd Street
- West Delaware and Green Street

Robbinsville Township
- Robbinsville-Edinburg Road and Park Street
- Robbinsville-Edinburg Road and Union Street
- Robbinsville-Edinburg Road and Yard Street
West Windsor Township
- Old Trenton Road and Millstone Road
- Old Trenton Road and MCCC Exit
- Princeton-Hightstown Road and Old Trenton Road
- Princeton-Hightstown Road and Rabbit Hill Road
- Princeton-Hightstown Road and Southfield Road

2019 Goal: Lettering of new vehicles - This goal has been accomplished. The Traffic & Signal Division provided the lettering for all new fleet vehicles and equipment for the County.

2019 Goal: Coordinate roadway closures - This goal has been accomplished. The Traffic & Signal Division designed traffic control plans for three (3) tree removal projects, four (4) bridge repair projects and seventeen (17) milling and resurfacing projects and coordinated the scheduling of police officers to assist with traffic control. Advanced notification, construction warning and detour signs were installed prior to the improvement projects starting date.

2019 Goal: Assist in the snow removal operation - This goal has been accomplished. The Traffic & Signal Division provided assistance to the Road Division during eleven (11) snow events. In addition to snow removal, the Traffic & Signal Division also assists in the repair of residential mail boxes that are damaged during snow removal on county roadways.

2019 Goal: Provide Interdepartmental Assistance to other departments/divisions - This goal has been accomplished. This year, the Traffic & Signal Division provided the following assistance:

Board of Elections
- Provided portable light towers at the McDade Administration Building during County Elections.

Central Maintenance
- Assisted in the design and installation of parking lot schematics for the new Mercer County Extension Services Center & Veterans Facility in Ewing Township.
- Provided the aerial platform lift truck for overhead lighting repair at several county facilities.
McDade Administration Building
- Design and fabrication of office door labels.
- Layout and striping of new parking lot.

Mercer County Improvement Authority (MCIA)
- Provided variable message signs and traffic cones for several events at the CURE Insurance Arena.
- Installed directional trailblazers, waste designation signs, traffic cones and variable message sign for Household Hazardous Waste Disposal Day held in March, June, and September at the Dempster Fire Training Center.
- Provided variable message sign for Shredding Events held in February and November.

Park Commission
- Provided variable message boards and portable light towers for several events at Mercer County Parks.

Trenton-Mercer Airport
- Provided variable message board for Emergency Drill notification.
- Installed fire lane pavement markings in front of Airport Terminal entrance.

Parking Lot design plans and finished layout of new Mercer County Office Complex.
2019 Goal: Participate in the Municipal Assistance Program (MAP) - This goal has been accomplished. The Municipal Assistance Program provides resources, labor and equipment to local municipalities. This year, the following municipalities requested service:

**West Windsor Township**

- Thermoplastic application of a fire lane zone at the Senior Center in West Windsor Township Municipal Complex.

*Supervisor Mark Mattaliano marks out a new fire lane for Traffic Maintenance Worker Michael Gilleo to overlay at the Senior Center in West Windsor Municipal Complex in support of the Municipal Assistance Program (MAP).*
- Installation of Opticom emergency vehicle traffic signal preemption system at the intersection of Clarksville Road and Cranbury Road.

- Installation of Opticom emergency vehicle traffic signal preemption system at the intersection of Millstone Road and Cranbury Road.

**2019 Goal: Participate in Shared Services - This goal has been accomplished.** The Traffic & Signal Division provides the delivery, installation and removal of equipment requested by Local Municipalities, Police Departments, Fire Departments and Local Organizations for special events. This year, equipment was requested for the following events:

**“Capital Health Carnival”**
- (2) Variable Message Signs

**“Ewing Township National Night Out”**
- (2) Variable Message Signs

**“Hightstown Triathlon”**
- (2) Variable Message Signs
  - (100) Traffic Cones

**“Hightstown Harvest Festival”**
- (2) Variable Message Signs

**“Hopewell Township Community Event”**
- (3) Portable Light Towers, (2) Variable Message Signs

**“Hopewell Valley Veteran’s Association Concert and Fireworks”**
- (3) Portable Light Trailers.

**“Lawrence Township Independence Day Fireworks Display”**
- (100) Traffic Cones

**“Lawrence Township Bike Rodeo”**
- (200) Traffic Cones

**“Lawrence Township Kids Triathlon”**
- (200) Traffic Cones

Light Tower Delivery for power outage.
“Menorah Lighting at the State House”
   – Aerial Platform Lift Truck and Operator

“Pennington Day”
   – (100) Traffic Cones

“Rider University Graduation”
   – (200) Traffic Cones

“Robbinsville Community Festival”
   – (3) Variable Message Signs

“Sunshine Foundation Operation Dream Lift”
   – (3) Portable Light Trailers, (2) Variable Message Signs and (10) Trailblazer Signs

“Special Olympics”
   – (4) Portable Light Trailers, (2) Variable Message Signs and (25) Water-Filled Barricades

“TCNJ Graduation”
   – (2) Variable Message Signs

Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

Bike Lane Signage
Installed Bike Lane Signage in correspondence with new traffic patterns influenced through the National Association of City Transportation Officials (NACTO).
NJ Regional Curve Inventory and Safety Assessment
– Installed recommended or required curve signage based on the NJ Regional Curve Inventory and Safety Assessment Report provided by engineering consultant GPI/Greenman-Pederson, Inc.

### 2020 Goals

**2020 Goal:** Upgrade electrically operated traffic control devices on County roadways - The Traffic & Signal Division proposes to upgrade signalized intersections and crossings.

**2020 Goal:** Perform maintenance on County maintained electrically operated traffic control devices and bridge lighting - Inspect all device and lighting locations and perform preventative maintenance to insure proper operation.

**2020 Goal:** Install video detection at signalized intersections - Video detection will be installed at intersections when in-pavement loop detector systems fail.

**2020 Goal:** Replace incandescent halogen bulbs with energy saving LED (Light Emitting Diodes) - As a cost savings effort; continue replacement on various traffic signals, county-wide.

**2020 Goal:** Respond to emergency service calls - Respond to emergencies from local municipal Police Departments as well as residential complaints.

**2020 Goal:** Maintenance of signage on County roadways - Perform routine maintenance of signage on county roadways. Replace damaged traffic signs and posts.

**2020 Goal:** Replace guide, regulatory and warning signs to meet FHWA retro-reflectivity standards – Replace signs and install break-away sign posts along County roadways.

**2020 Goal:** Provide lettering of new vehicles - Provide lettering of all new fleet vehicles for the county.

**2020 Goal:** Install thermoplastic intersection markings on selected county roadways - Projects scheduled for next year are currently in the planning process.

Looking ahead to 2020.
2020 Goal: Coordinate roadway closures - The Traffic & Signal Division will continue to coordinate all roadway closures, detours and traffic control with local police departments prior to commencement of a road improvement project. Advanced notification and detour signage will be installed prior to the improvement projects starting date.

2020 Goal: Train staff - Continue to provide training opportunities to Traffic personnel.

2020 Goal: Assist in the snow removal operation. Provide assistance to the Road Division in the removal of ice/snow emergencies - Provide assistance during snow events. In addition to snow removal, the Traffic & Signal Division also assists in the repair of residential mail boxes that are damaged from passing snowplows.

2020 Goal: Provide Interdepartmental Assistance Program (IAP) - Continue to provide Interdepartmental Assistance to other departments/divisions.

2020 Goal: Participate in the Municipal Assistance Program (MAP) - Continue to provide assistance to local municipalities.

2020 Goal: Participate in Shared Services - Continue to provide services to local municipalities, police and fire departments and local organizations.

*Supervisor Mark Mattaliano and Traffic Maintenance Worker Alfred Council perform safe lane channelization operation.*
TRADE Transportation (Transportation Resources to Aid the Disadvantaged and Elderly)
DOT & I Facility, 300 Scotch Road, Building #1, West Trenton, NJ 08628

It is the purpose of TRADE to support eligible County residents who require transportation to maintain their health, improve their financial status, utilize various public and private programs and services (medical, therapeutic, recreational) and access other needed community resources. TRADE Transportation is accessible to all eligible residents of Mercer County, including older adults (age 60+) and people with disabilities.

**Director**
Martin DeNero

**Administrative Staff**
Junior Spence, Program Coordinator
Julio Silva, Clerk 4
Debra Mizzell, Clerk 3
Jacqueline Harrison, Clerk 2
Christina Raspatello, Clerk 2
Marissa Longo, Clerk 1

**Motor Vehicle Operators (26)**
Fieysal Algimer
Sharmarly Berry
Ruth Buck
Freddy Carter
Crystal Futrell
Rudolph Galiber
Jose Gomez
Steven Harmon
Debra Lucas
Robert Markley
Charles McCloskey
Robert Metelski
Kim Miller
Victor Ordonez
Latonya Peterson-Davis
Mario Prophete
Michael Pusy
Lismarie Rentas
Jeronimo Rodriguez
Frederick Wingate
Kenneth Wynder
Sherman Rogers
Gilberto Santiago
Pedro Sapon
Shawn Tift
Claude Townsend
Clark Wiley

**Stand-by Motor Vehicle Operator (2)**
Samuel Taylor
Employee Continuing Education

Diversity Training Program and the Supervisor Training Program
Junior Spence, Program Coordinator
Julio Silva

2019 Accomplishments

The Department of Transportation and Infrastructure (DOT&I) and TRADE Transportation developed goals for 2019, which provided a framework for action during the year. In the first section of this report for TRADE, the goals for 2019 are listed, along with information about TRADE’s accomplishments in meeting these goals. Other accomplishments from 2019 are also listed. The second section documents TRADE’s goals for 2020.

2019 Goal: Continue to Upgrade Scheduling Software and Implement Other Technologies – This goal is in the process and will be ongoing. The software contractor for TRADE’s Dispatch and Scheduling Software is Trapeze Software Group/TripSpark. The software upgrade scheduled for 2019 is in the final stage of completion. A testing site hosted by the contractor is established and testing is almost complete. The main work remaining is to test the reports [operating data] that are generated by the software. This has been time-consuming for the vendor as they have encountered problems translating reports that were originally created in 2008. These reports are used for submission of required electronic reports to New Jersey Transit (NJT) and the Mercer County Office on Aging. Following that testing, Trapeze Software will schedule on-site training (2 days) of TRADE staff and the software will go live.

2019 Goal: Continue Development of Transportation Improvements by providing leadership to the Mercer County Coalition for Coordinated Transportation – This goal is in the process and will be ongoing. The general purpose of the Coalition is to work together to enhance transportation options for residents of Mercer County who are elderly, people with disabilities and people with low incomes.

The Mercer County Human Services Transportation Coordination Plan involves multiple strategies and action steps to be accomplished over the short and long-term. The Mercer County Coalition for Community Transportation [Coalition] is a stakeholder group that works to develop the Coordination Plan, and TRADE provides leadership and support to the Coalition, acting as Co-Chair. Work on this goal area will continue in 2020. Specifically, NJ transit requires that the Plan be updated every five (5) years. The Plan Update was completed in 2019 and submitted to NJ Transit. NJ Transit does recognize the Mercer Coalition and the Plan Update as a model for other Counties.
Demographics and census maps have been produced. The Plan Update finalized service and policy priorities for the Plan. It is essential that any service priorities be documented in the Plan Update to ensure availability of federal funds for agencies and transportation providers in Mercer County.

The Coalition made a decision at a recent meeting that Coalition members will conduct community meetings in all municipalities in Mercer County over the next two years (2019 and 2020). These community meetings will have two purposes:

1. Obtain information from residents about their transportation needs;
2. Provide residents with information about all transportation resources available to them in their communities.

During 2019 community meetings were held in Lawrence, Hamilton and West Windsor. A total of 250 residents attended the meetings and provided input on unmet needs and potential transportation improvements. This input will be documented and used by the Coalition for planning purposes.

“Workshop about young adults transitioning to adult life”.

2019 Goal: Complete Project for Interagency Coordination for Long-Distance Human Service Transportation – This goal has not been accomplished and will continue into 2020. TRADE was unable to coordinate with Hunterdon County staff, but interest in a possible arrangement still exists. This goal will be continued in 2020.
**2019 Goal:** Complete planning project sponsored by NJ Transit to improve efficiency and possibly make revisions to services offered by TRADE. *This goal has been accomplished.* TRADE worked with a Consultant sponsored by NJ Transit. Results were less than expected. The Consultant did provide some guidance on changes that could be made to a routine service provided to shoppers. However, the focus on their report was to contract with service providers such as Lyft or Uber, to provide rides during evenings and weekends, but funding was available through NJ Transit at 50% for only one year. This did not seem to be a feasible approach given the fiscal constraints facing the County.

**2019 Goal:** Continue efforts to locate grant funding for vehicle replacements to reduce use of County Capital grant funds. *This goal has been accomplished.* During 2019 TRADE obtained one (1) replacement vehicle through the Federal Transit Administration (FTA) Section 5310 Program, administered by NJ Transit.

A major accomplishment has been achieved in this area. TRADE staff has collaborated with Mercer County Planning staff to find a sustainable source of funding for replacement vehicles. To that end, we have worked for several years with the Delaware Valley Regional Planning Commission (DVRPC) to find a standing within the DVRPC Transportation Improvement Plan (TIP), which provides planning and funding for general road, highway, bridge, mass transportation projects, etc.). Funding has been located through the Federal Congestion Mitigation Air Quality Program for replacement vehicles for TRADE. Planning now includes funding to replace ten (ten) vehicles in 2020 and an additional ten vehicles in 2022.

TRADE and Planning explored these sources to lessen the burden on Capital projects funded by the County.
Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

Revenue Changes:

Sports Betting
The U.S. Supreme Court ruled in 2018 that sports betting is a legal activity and the State of NJ instituted rules/regulations directing that some proceeds from the betting will support the Casino Revenue Fund. The Casino Revenue Fund has historically supported County Transportation Programs, though it has declined by approximately 50% since 2008. The revenue resulting from sports betting will begin to be realized to County Transportation Programs in 2021. The internet wagering has started to have some positive benefit to the Casino Revenue Fund, beginning in 2017, as revenue from table game betting has generally remained flat the past two years.

NJ Council on Special Transportation advocated to include sports betting revenue in the Casino Revenue fund. The Casino Revenue fund supports transportation programs similar to TRADE throughout the state.

Federal Transit Administration Section 5310 Operating Grant
For the first time, Section 5310 Grants were allowed to reimburse operating expenses. Previously, only capital projects were allowable. In 2018, the County executed an Agreement with NJ Transit for $100,000.00 in grant funds to offset operating costs and in 2019 the County Executed a grant with NJ Transit for $150,000 in grant funds to offset operating costs.
**Vehicle Advertising**
Interstate Outdoor Media, LLC provides advertising revenue through posting ads on TRADE vehicles. The revenue has increased this past year to a total of approximately $20,000. The County conducted a procurement process in 2019 and Interstate Outdoor Media, LLC was selected for a new contract.

**Transportation Services:**

**Dialysis Center Customers**
TRADE has made concerted efforts since 2015 to reduce the waiting list of customers needing transportation to dialysis centers. The problem of transportation for customers needing transportation has worsened over the past five years as the number of dialysis centers increased from six to ten centers. At the beginning of 2015 a total of 45 customers were on the waiting list for transportation. By November 2018, nine [9] customers were on the waiting list. During 2019 the demand continues, even as efforts continued to add customers to the list as openings permitted. As of November 2019, approximately 30 people are now on the waiting list.

**City of Trenton Senior Centers**
The Senior Centers in the City of Trenton have experienced significant problems with the transportation services available to them. TRADE coordinated with the City of Trenton staff to establish a bi-monthly schedule of trips for participants at the five [5] City Senior Centers on a rotating schedule, without impacting TRADE’s regular services. During 2019, the City of Trenton staff has had success in utilizing these services offered to them by TRADE every two weeks.

**Transportation for Food**
In addition to regular routes provided to groups of customers needing to shop for food, as well as for individual requests, TRADE established a new initiative during 2018 and this has continued in 2019. We provided weekly trips to seniors living in housing developments to travel to a Farmers Market in Trenton. Additionally, a monthly trip to a food bank was established for Lawrence Township residents.

*TRADE Motor Vehicle Operator Lismarie Rentas, after transporting customer to dialysis center.*
Transportation Services were provided throughout the year to support multiple community agencies, for special events. Transportation services were provided for the following events:

- Holiday Festivities in East Windsor Township, the Princeton Senior Resource Center, Lawrence Township and Hamilton Township.
- Senior Picnics in Hopewell and Hamilton.
- Annual “Take Your Child to Work Day”, shuttling to Trenton-Mercer Airport and Mercer County Parks.
- TRADE Advisory Council Meetings, transported members.
- Mercer County Office on Aging’s Annual Nutrition Picnic held at Mercer County Park.
- West Windsor New Year’s Celebration.
- Sadie Hawkins Dance in Robbinsville.
- Trip to Trenton Thunder Game for Lawrence Veterans
- Transportation to the 4H Fair.
- Provided a driver to shuttle youth to jobs at Great Adventure to assist the Workforce Investment Board for two weeks when they had a driver shortage.

Annual Nutrition Picnic at Mercer County Park.

County Executive Brian M. Hughes speaks with seniors at the Annual Nutrition Picnic at Mercer County Park.
Public Outreach Activities
TRADE participated in regular meetings with community agencies and also made presentations to community groups to explain services offered by TRADE. They are listed below:

- Meetings with participants at County Nutrition Sites
- Meetings held with Members of the Coalition for Coordinated Transportation.
- Participation in Health Fairs (Lawrence).
- Monthly meetings of the Mercer County Nutrition Council.
- Quarterly meetings for grantees of the Mercer County Office on Aging.
- Participation in staff meetings of community agencies.
- Joint Meetings with the TRADE Citizen Advisory Committee, the Mercer County Office on Aging Advisory Committee, the Mercer County Advisory Committee for Persons with Disabilities and the Nutrition Council. TRADE staff coordinated with staff from the Mercer County Office on Aging to hold joint meetings of the Citizen Advisory Councils. The Joint Meetings were very successful, as they increase participation of public members in the work of the Advisory Councils. They also allow for enhanced communication among community members and provide a vehicle for improved advocacy. Three meetings were held in 2019 and they will continue in 2020.
2020 Goals

2020 Goal: Continue to Upgrade Scheduling Software and Implement Other Technologies
TRADE will continue to work with our vendor (TripSpark) to finalize the software upgrade that has been significantly delayed. Following the upgrade completion TRADE will begin a process to install new technology components that will include electronic communication between dispatch and drivers through tablets, including GPS capability to track on-time performance and vehicle location.

2020 Goal: Continue Development of Transportation Improvements by providing leadership to the Mercer County Coalition for Coordinated Transportation - The general purpose of the Coalition is to work together to enhance transportation options for residents of Mercer County who are elderly, people with disabilities and people with low incomes.

The Mercer County Human Services Transportation Coordination Plan involves multiple strategies and action steps to be accomplished over the short and long-term. The Mercer County Coalition for Community Transportation [Coalition] is a stakeholder group that works to develop the Coordination Plan, and TRADE provides leadership and support to the Coalition, acting as Co-Chair. Work on this goal area will continue in 2019.

The Coalition made a decision at a recent meeting that Coalition members will conduct community meetings in all municipalities in Mercer County during 2019 and 2020. Three community meetings were held in 2019, and meetings will be scheduled in the remaining municipalities in 2020. These community meetings will have two purposes: (1) obtain information from residents about their transportation needs and; (2) to provide residents with information about all transportation resources available to them in their communities. A report detailing the Community meetings will be compiled with recommendations.

2020 Goal: Complete Project for Interagency Coordination for Long-Distance Human Service Transportation - TRADE will pursue an arrangement with our transportation counterpart in Hunterdon County to coordinate services between the two Counties.

2020 Goal: Explore revenue sources to offset County expenses - Continue efforts to locate grant funding for vehicle replacements to reduce use of County Capital grant funds.

2020 Goal: Vehicle Advertising - Continue to make use of a Contractor for vehicle advertising. The contract with Interstate Outdoor Advertising expired in 2019 and a bid process was completed in 2019. Advertising will continues in 2020 with Interstate Outdoor, which has performed well with this contract.
Operating an airport of this size is like managing a small city, encompassing many aviation and non-aviation tasks. TTN is concerned with providing the necessary “tools” to maintain facility infrastructures by acquiring funding, maintenance of records, compliance with regulatory requirements, personnel management, and interaction with the public.

**Airport Manager**

Melinda Montgomery, A.A.E.

**Administrative Office (5)**
Keith Herzstein, Confidential Aide
Jodie Ottilie, Executive Assistant
Nilda Garcia, Administrative Analyst
Leticia Hernandez, Account Clerk
John Walczak, Clerk Typist

![Nilda Garcia (left); Jodie Ottilie (middle); Leticia Hernandez (right)]
Operations Unit (3)
Edward Berry, Airport Operations & Safety Officer
Matthew Parker, Airport Operations & Safety Officer
David Washington, Airport Operations & Safety Officer

Maintenance (12)
Kurt Neinstedt, Maintenance Supervisor
Joseph DiDonato, Road Supervisor 1
Adam Vacirca, Electrician
Shannon Bell, Equipment Operator
Maurice Dixon, Equipment Operator
Joshua Gregg, Equipment Operator
Charles Howarth, Equipment Operator
Eddie Liverman, Equipment Operator
Michael Gore, Maintenance Repairer
Carlos Hendricks, Laborer
Michael Liverman, Laborer
Malik Moreland, Laborer

Parking Lot Attendants (10)
David Brittingham
John Cavalier
Russel D. Compton, Jr.
Michael Duggan
Rahjeem Graves
Curtis Lewis
Shawn Miller
Arthur Piotrowski
Doris Thompson
Ronald Rogers

Senior Parking Lot Attendant (1)
William Jones

Seasonal Assistant/Intern (2)
Joseph Immordino
Dylan Harrison
Employee Continuing Education

Melinda Montgomery, A.A.E., Airport Manager
- 2019 Northeast Chapter/American Association of Airport Executives (NEC/AAAE) Annual Conference in Portland, ME.
- 91st Annual AAAE Conference & Expo in Boston, MA.

Keith Herzstein, Confidential Assistant 1
- 2019 Northeast Chapter/American Association of Airport Executives (NEC/AAAE) Annual Conference in Portland, ME.

Matthew Parker, Airport Operations & Safety Officer
- 2019 Northeast Chapter/American Association of Airport Executives (NEC/AAAE) Annual Conference in Portland, ME.
- AAAE Airport Certified Employee (ACE) Training, Part 139-based curriculum in Alexandria, VA.

David Washington, Airport Operations & Safety Officer
- ACE Operations Review Course in El Paso, TX.
- International Snow Symposium and Snow Academy in Buffalo, NY.

Nilda Garcia, Administrative Analyst
- Passenger Facility Rates and Charges Conference in Savanna, GA.

Leticia Hernandez, Account Clerk
- 30th Annual AAAE/Southeast Chapter Finance and Administration Conference in Clearwater, FL.

Adam Vacirca, Electrician
- ACE Airfield Lighting Maintenance Review in Alexandria, VA.

Joshua Gregg, Equipment Operator
- Basic Airport Safety and Operations Specialist School (ASOS) Snow Symposium, Buffalo, NY.

William Jones, Senior Parking Lot Attendant
- The Mobility Revolution Conference in Orlando, FL.
The 90th Anniversary was held on Thursday, October 24, 2019 at the Trenton-Mercer Airport. The event was held on the potential site of the new terminal. The Trenton-Mercer Airport was gifted with significant historical artifacts from the 1929 dedication of the Trenton-Mercer Airport by the Engle Family including a helmet cap signed by famed aviators James “Jimmy” Doolittle, Clarence Chamberlin and Freddie Lund.
Above, Ewing Township Mayor Bert H. Steinmann.

Left to right, Deputy Administrator Aaron T. Watson; Surrogate Diane Geroofsky; Freeholder Pasquale “Pat” Colavita.

Left to right, Deputy Administrator Lillian Nazzaro, Esq., Chief of Staff Kelvin S. Ganges, Deputy Administrator Aaron T. Watson, Senior Vice-President of Frontier Airlines Daniel Shurz, and Deputy Administrator/CFO David J. Miller.

County Executive Brian M. Hughes.
2019 Goal: Acquire additional passenger destinations - *This goal has been accomplished.* Frontier Airlines, Inc. is now in their 7th year, serving 15 cities, 11 flights per day, and almost one million passengers per year. Beginning November 15, 2019, Frontier Airlines added service to/from Sarasota Bradenton International Airport in Florida. Frontier Airlines, Inc. announced their intention to extend services at the Trenton-Mercer Airport until December 31, 2029. 16,890 flights to date, with 2,249,378 enplanements and 2,268,782 deplanements.

![Left to right, Senior Vice-President of Frontier Airlines Daniel Shurz, Trenton-Mercer Airport Manager Melinda Montgomery and Deputy Administrator Aaron T. Watson at the 7th Anniversary event.](image)

2019 Goal: Focus on receiving a “perfect” (zero deficiencies) FAA Annual Inspection - *This goal has been accomplished.* Every year the Federal Aviation Administration (FAA) inspects all commercial service airports in order to ensure compliance with federal regulations and safety mandates. The inspection was held from April 2, 2019 through April 5, 2019. The Federal Aviation (FAA) Inspector for TTN found zero discrepancies giving Trenton-Mercer Airport a 100 percent approval rating. Trenton-Mercer Airport achieved a Perfect “Zero Discrepancy” Inspection. All operational departments are reviewed to ensure compliance with training procedures and employee certification qualifications. The inspection covered all aspects of the Airport’s operations, including Aircraft Rescue and Fire Fighting (ARFF) operational procedures and response times, maintenance repair processes, and operational safety and security processes.

2019 Goal: Continue our efforts to meet all regulatory requirements concerning environmental issues and safety standards at our facility – *This goal has been accomplished and continues to be pursued.* The Airport is currently under contract with Kleinfelder East, Inc. to complete wetland restoration with work having started in October 2018. The Airport also installed a new water main in the north quadrant of the airport, work which included the isolation of the cistern located under the former Crest Building. Additionally, the Airport is currently underway with the environmental assessment associated with the terminal replacement project and associated airside and landside improvements, all of which will continue into 2020.
2019 Goal: Explore development of further revenue enhancing projects - This goal has been accomplished and continues to be pursued with increased terminal advertising revenues and the commitment of FlightServ, LLC to develop a hangar on the former Naval Air Propulsion site.

2019 Goal: Complete the development of Standard Operating Procedures - This goal has been partially accomplished with the completion of the parking policies and procedures manual.

2019 Goal: Complete the development of Airport Minimum Standards - This goal has been partially accomplished. Airport Administration is currently developing Minimum Standards and Rules and Regulations pertaining to tenant’s compliance with the Airport’s requirements.

Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

- Prepared thirty-one (31) Resolutions for various Airport projects/issues.
- Acquired over $4,000,000 in FAA grants for various projects.
- Collected over $2,600,000 in terminal parking revenue.
- Collected over $1,500,000 in Passenger Facility Charges (PFC).
- Updated the Airport Certification Manual.
- Updated the Airport Emergency Plan.
- Updated the Airport Wildlife Management Plan.
- Held discussions with various potential new tenants.

Airfield

The lifeblood of an airport is its runways, taxiways, lighting, markings, navigational aids, etc. The primary function of TTN staff is the maintenance of those essentials in order to maintain a safe, efficient, and regulatory compliant airfield, capable of supporting the aircraft activities of our tenants and users. To this end, TTN has made a tremendous effort to maintain and upgrade our facility to meet or exceed industry standards.

2019 Goal: Continue to focus on the elimination of all runway/airfield incursions - This goal was partially accomplished and continues to be pursued. There was one incursion this year.
2019 Goal: Continue brush and tree removal operations to aid navigation, and minimize wildlife habitat - This goal has been accomplished. Brush removal occurred along Sam Weinroth Road inside the perimeter fence to improve line of sight for security and to discourage wildlife using the brush for cover.

2019 Goal: Continue to research ways to minimize airport closures during inclement weather, construction, and maintenance projects - This goal has been accomplished and continues to be pursued, by utilizing new FAA matrix formulas to better identify runway conditions.

Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

- Performed snow/ice removal during fifteen (15) snow events in 2019.
- Taxiways D & G Rehabilitation and Reconstruction have been completed.
- Taxiway D2 Construction has been completed.
- Terminal Apron Rehabilitation has been completed.
Community Relations

TTN has “answered the call” from the community, the Nation, and the World since 1929, and that commitment to service continues today. In addition to providing safe, convenient air transportation to commercial, corporate, and private travelers alike, TTN is involved in a number of community-based causes. Likewise, TTN is committed to keeping its neighbors informed on various issues, in various venues.

2019 Goal: Continue to increase community awareness of the airport - This goal has been accomplished and continues to be pursued. For example, the Airport has continued to update website information and provide draft press announcements regarding events at the Airport. Recent events included the Collings Foundation Wings of Freedom Tour that featured vintage WWII aircraft.

2019 Goal: Continue our noise abatement efforts - This goal has been accomplished. We have continued to respond to residents and pilots alike swiftly and professionally.

Above, the Taxiway D2 Construction Project bid was awarded to C.J. Hesse, Inc. on March 5, 2019 in the bid amount of $996,323.00. Notice to proceed was issued on August 5, 2019 and the project was completed on September 25, 2019.
Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

- Held public meetings as part of the Terminal Replacement Project.
- Held public meeting as part of the Runway Protection Zone (RPZ) Project.
- Hosted the Annual “Operation Dreamlift”, in support of handicapped/seriously ill children.
- Participated in the Annual “Take Your Child to Work Day” event, held on April 23, 2019.
- Hosted an Autism Program Event – Let’s Investigate Flying Together (L.I.F.T.) event.
- Held WWII Aircraft, a Commemorative Air Force (CAF) Air Power History Tour of Historic Aircraft was on display at Signature Flight Support. Featured aircraft included: B-29 Superfortress “FIFI”, T-6 Texan, and PT-13 Stearman.

Above, Public Meeting #2 to discuss the new passenger terminal was held on January 23, 2019 at the West Trenton Fire House Ballroom.
Above, Annual Operation Dreamlift took place on May 1, 2019 and transported approximately 90 children to Florida; Below, Annual Take Your Child to Work Day event held on April 23, 2019.
The maintenance of facilities continues to be of concern, as most of our buildings are functionally inadequate and obsolete. An aggressive safety compliance and infrastructure maintenance program on these decades old buildings has caused much work to be done in this regard. While we may not be able to immediately acquire new facilities, we can maintain and improve what we have already.

2019 Goal: Continue to provide adequate space and facilities to accommodate the healthy growth of commercial passenger service at TTN, guided by the Master Plan - This goal has been accomplished and continues to be pursued. Two additional restrooms have been rehabilitated in the terminal this year. The Airport is also in the process of completing an environmental assessment and design work for a replacement terminal. Additionally, we are in the final stages of obtaining approval for the demolition of the on-site trailers formerly belonging to Mercer County Community College to expand airport land available for development.

2019 Goal: Installation of emergency generators to provide power to the Parking Trailer and the North Parking Lot - This goal has been partially accomplished. Installation of an emergency generator to provide power to the North Parking Lot and an emergency generator to provide power to the Parking Trailer is anticipated in early 2020.
Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

- Airport Maintenance completed repairs to Taxiway Charlie and to the terminal apron aircraft parking spots. *(see below)*

![Image of Airport Maintenance](image.png)

Emergency Response/Preparedness

When an incident occurs we are very fortunate to have 24/7 Aircraft Rescue and Firefighting (ARFF) coverage along with the presence of Mercer County Sheriff’s Officers (MCSO). ARFF’s presence (coupled with that of the MCSO) not only benefits the safety of our commercial carrier and passengers, it is a benefit to all our tenants, and in fact, is one of the many reasons that Trenton-Mercer Airport has been chosen as aviation headquarters for over 20 aviation tenants, including the aviation units of a number of Fortune 500 companies. However, countless other Federal, State, and Local agencies (such as FAA, N.J. Division of Aeronautics, N.J. State Police, Ewing Police, Trenton EMS, Station 30 Ewing Township Fire Department, and the West Trenton Fire Company) are involved in maintaining the safety of TTN. It is the responsibility of airport staff to supervise these services, ensure their readiness, and coordinate operations and training of vested parties.
2019 Goal: Conduct successful Annual Table Top Exercise – This goal has been accomplished.

2019 Goal: Continue to work with all stakeholders to ensure a timely and effective response in the event of any emergency - This goal has been accomplished.

Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

– Responded to ninety one (91) emergency calls (non-aircraft related) in 2019.

Governmental Relations

As a key economic engine and transportation center for Mercer County, Trenton-Mercer Airport is regulated by a myriad of Federal, State, and Local statutes and rules. TTN must have continual communication with every level of government, as well as with many agencies within County Government, to maintain regulatory compliance, stay abreast of statutory changes, available grants, coordinate emergency response planning, industry updates, and the like. In total, staff at TTN participated in approximately 300 meetings with representatives of numerous government entities.

2019 Goal: Continue to ensure that the TTN Contract Air Traffic Control Tower remains open and operating, in spite of any future budget impasses on the Federal Level - This goal has been accomplished. We continue to monitor this situation and work with the Contract Tower Association regarding any Congressional activity in this regard.

Other Accomplishments

In addition to the goals set forth for 2019, the following accomplishments have also been undertaken:

– Airport Manager Montgomery was selected to serve on the Executive Committee of the Northeast Chapter of the American Association of Airport Executives (NEC/AAAE), Member of the Northeast Chapter Academic Relations Committee, Member of the AAAE National Operations and Security Committee, and Member of the Airports Council International-North America Small Hub Airports Committee.
– Staff attended various meetings with other County offices and staff, on a number of important issues, such as wildlife management, environmental compliance, new commercial service.
– Staff attended airport users meetings to discuss TTN related subjects and enhancements.

**Security**

Security continues to be a major concern at our Nation’s airports, so too at TTN. In addition to coordinating the disposition of Mercer County Sheriff’s Office units assigned to the airport, airport staff must also coordinate with the U.S. Transportation Security Administration (TSA), and the Federal Bureau of Investigation (FBI), as well as other tenants and users of the airport, regarding compliance with security regulations. Additionally, maintenance of security assets (perimeter fence, gates, locks, doors, etc.) are also managed by Airport Administration as are security grant applications, the creation and maintenance of the Airport Security Plan (ASP), and other related matters. We have also provided MCSO liaisons to TSA for coordination of security related activities.

**2019 Goal: Badge close-in SIDA tenants, namely condo and t-hangar tenants** - *This goal was not accomplished*, as it is not currently required.

**Other Accomplishments**

In addition to the goals set forth for 2018, the following accomplishments have also been undertaken:

– Completed installation of new security cameras in the terminal and baggage claim.
– Continued monitoring of TSA Watch Lists, as required.
– Maintained records for TSA registered Security Identification Display Area (SIDA) employees, as required.
– Conducted background checks for all necessary airport employees, and foreign flight students, as required.
– Participated in regularly scheduled “Law Enforcement Working Group” meetings aimed at enhancing information sharing between Federal, State, and Local law enforcement and the Airport.

**Training**

The relatively large size of the airport, and the numerous types of activities/projects occurring at TTN, really require us to train for any eventuality, and so, our training is varied. Whether its snow, employee safety training, or regulatory compliance, TTN is prepared to do battle in order to maintain the highest standards of professionalism and effectiveness.
2019 Goal: Continue safety training of airport staff - This goal has been accomplished and continues to be pursued, such as with HazCom Training, BBP Training, CDL, and PPE Training.

2019 Goal: Attend airport training through AAAE, and other specialized training outlets - This goal has been accomplished and continues to be pursued, such as with Part 139 training, Pavement Maintenance training, Construction Management training, ASOS School, Airport Finance training, and the Snow Symposium. Training attended by staff in 2019 included the basic and advanced snow academies, basic and advanced airport operations safety and specialist (ASOS) schools, Airport Certified Employee (ACE) operations and airfield and facilities maintenance workshop, Airport Certified Employee (ACE) lighting, and a passenger facility charge (PFC) workshop. Staff also attended two finance conferences and the Northeast AAAE annual conference.

Other Accomplishments

In addition to the goals set forth for 2018, the following accomplishments have also been undertaken:

– Provided snow removal training for staff and tenants.
– Provided TSA Regulation Part 1542 training to staff, ARFF, and airport tenants and contractors.
– Participated in annually required FAA wildlife training.
– Completed required AOA training and Part 139 training.
– Held Runway Safety Action Team (RSAT) meeting for tenants.

2020 Goals

In order to perpetuate the high level of safety, professionalism, and structural integrity we currently enjoy, we will continue to maintain and upgrade our existing airport facilities, continue to train and manage our staff in an efficient and thorough manner, communicate with the public in an efficient manner, and be prepared for any eventuality.

Administration

– Acquire additional and maintain existing passenger destinations.
– Continue our efforts to meet all regulatory requirements concerning environmental issues and safety standards at our facility.
– Explore development of further revenue enhancement projects.
– Complete the development of Standard Operating Procedures.
- Complete the development of airport minimum standards.
- Implement recommendations provided in the Runway Protection Zone (RPZ) Study.

**Airfield**
- Continue to focus on the elimination of all runway/airfield incursions.
- Continue brush and tree removal operations to aid navigation, and minimize wildlife habitat.
- Continue to research ways to minimize airport closures during inclement weather, construction, and maintenance projects.
- Complete Taxiway F reconstruction.

**Facilities**
- Continue to provide adequate space and facilities to accommodate the healthy growth of commercial passenger service at TTN, guided by the future findings of the Master Plan Review.
- Complete installation of an emergency generator to provide power to the Parking Trailer.
- Complete new water main project in the North quadrant to service fire suppression systems in tenant’s hangars and bypass the cistern located beneath the Crest building.
- Complete wetlands remediation project.
- Advance terminal EA siting and design.
- Break ground for new ARFF facility.
- Commence demolition for new FlightServ, LLC facility.
- Complete new Scotch Road parking lot.
- Break ground for new passenger terminal.

**Community Relations**
- Continue the process of communication with residents from whom the County may seek to obtain easements, and in some cases property ownership in order to mitigate negative impact on the airport’s Runway Safety Area (RSA).
- Continue our Noise Abatement efforts.
- Continue to increase community awareness of the airport.

**Emergency Response/Preparedness**
- Conduct successful Full Scale Exercise.
- Continue to work with all stakeholders to ensure a timely and effective response in the event of any emergency.
**Governmental Relations**

*Continue to ensure that the TTN Contract Air Traffic Control Tower remains open and operating, in spite of any future budget impasses on the Federal Level.*

**Security**

- Badge close-in SIDA tenants, namely condo and T-hangar tenants, if required.

**Training**

- Continue safety training of airport staff.
- Attend airport training through AAAE, and other specialized training outlets.

*Above, Student Intern Joseph Immordino.*
Appendix of Acronyms

AAAE – American Association of Airport Executives
ACEC – American Council of Engineering Companies
ADA – Americans Disability Act
AED – Automated External Defibrillator
AEP – Airport Emergency Plan
AMCA - American Mosquito Control Association
AOA – Aircraft Operating Area
ARFF – Aircraft Rescue & Firefighting
ASO – Airport Security Officer
ASP – Airport Security Plan
ASOS – Automated Surface Observation System
ATCT – Air Traffic Control Tower
ATM – Asian Tiger Mosquito
ATP – Annual Transportation Program
AGO - Autocidal Gravid Oviposition
AVL – Automated Vehicle Location
BBT – Bloodborne Pathogens Training
CAIT – Center for Advanced Infrastructure and Transportation
CCTV – Closed Circuit Television
CDC - Center for Disease Control
CDL – Commercial Driver’s License
CED – Categorical Exclusion Document
CMAQ - Congestion Management Air Quality
CMMS – Computerized Maintenance Management System
COST – NJ Council on Special Transportation
CPR – Cardiopulmonary Resuscitation
DOT&I – Department of Transportation and Infrastructure
D&R – Delaware and Raritan Canal
DRCC – Delaware and Raritan Canal Commission
DVRPC – Delaware Valley Regional Planning Commission
EAA – Experimental Aircraft Association
EDU – Engineering Documents Unit
EPA – Environmental Protection Agency
EOC – Emergency Operation Center
ESCC – Emergency Services Communications Center
ETC – Ewing Town Center
FAA – Federal Aviation Administration
FAR – Federal Airport Regulation
FBI – Federal Bureau of Investigation
FBO – Fixed Base Operator
FCC – Federal Communications Commission
FEMA – Federal Emergency Management Agency
FHA – Federal Highway Administration
FTA – Federal Transit Administration
GIS – Geographic Information System
GMPHP – Greater Mercer Public Health Partnership
GMTMA – Greater Mercer Transportation Management Authority
GPR – Ground Penetrating Radar
GPS – Global Positioning System
HMPG - Hazard Mitigation Grant Program
HSIP – Highway Safety Improvement Program
HVAC – Heating Ventilating Air Conditioning
IAP – Interdepartmental Assistance Program
JMT – Johnson, Mirmiran & Thompson
LCMS – Laser Crack Measuring System
LED – Light Emitting Diode
LEO – Law Enforcement Officer
LHT – Lawrence Hopewell Trail
LIFT – Let’s Investigate Flying Together
MAGTUG – Mid-Atlantic Geospatial Transportation Users Group
MAP – Municipal Assistance Program
MCCC – Mercer County Community College
MCIA – Mercer County Improvement Authority
MCMC – Mercer County Mosquito Control
MCSO – Mercer County Sheriff’s Officers
MP – Mile Posts
NAWC – Naval Air Warfare Center
NEC – Northeast Chapter
NH – National Highway System
NJAA – New Jersey Airport Association
NJDEP – New Jersey Department of Environmental Protection
NJDOT – New Jersey Department of Transportation
NJMA – New Jersey Mosquito Association
NJOEM – New Jersey Office of Emergency Management
NJOGIS – New Jersey Office of Geographic Information Systems
NJSTEP – New Jersey Supervisory Training Empowering Performance
NJT – New Jersey Turnpike
OIT – Office of Information Technology
PPE - Personal Protective Equipment
PFC – Passenger Facility Charge
PSE&G – Public Service Electric & Gas
RIMIS – Regional Integrated Multi-Modal Information Sharing
RRFB - Rectangular Rapid Flashing Beacons
RFP – Request for Proposal
ROW – Right-of-Way
RSA – Runway Safety Area
SCDRTAP – Senior Citizen and Disabled Resident Transportation Assistance Program
SHPO – State Historic Preservation Office
SIDA – Security Identification Display Area
SLDs – Straight Line Diagrams
SOVE - Society of Vector Ecologists
TAM – Transportation Asset Management
TAMIS – Transportation Asset Management Information System
TAMP – Transportation Asset Management Plan
TIPS – Techniques for Improving Performance
TSA – Transportation Security Administration
TTF – Transportation Trust Fund
TTN – Trenton – Mercer Airport
TSA – Transportation Security Administration
USDA – United States Department of Agriculture
Employee Recognition

Sincere congratulations to each of you on your retirement. Your years of service and dedication to the Mercer County Department of Transportation & Infrastructure have made a positive and everlasting impact. Best wishes for health, happiness and pleasant memories.

Stacy Lawrence, retired December 31, 2019, after 35 years.
Charles Litchmore, retired June 30, 2019, after 15 years.
Kevin Molder, retired March 31, 2019, after 15 years.
Stacy Rash, retired February 28, 2019, after 31 years.

Mercer County prides itself knowing that employees it hires are individuals who are committed to their work and demonstrate an interest in the progress and well-being of the citizens of Mercer County. The following employee is recognized for his twenty-five years of service with the Department of Transportation in the Division of TRADE (Transportation Resources to Aid the Disadvantaged and Elderly):

Jose Gomez, Motor Vehicle Operator
In Memoriam

Robert (Rob) J. Dixon

Robert J. Dixon passed away on September 28, 2019 at the age of 51.

As we mourn the loss of Robert J. Dixon, we also celebrate his life. Rob was a resident of Bordentown, living most of his life in Hamilton Township, Whitehorse section and possessed a great love for music, kayaking and classic cars.

Rob was a HVAC Repairman with the Mercer County Department of Transportation & Infrastructure in the Division of Buildings & Grounds (Central Maintenance) for 27 years where he played a vital role in maintaining the HVAC systems throughout Mercer County. As a tradesman, he provided Mercer County with the ability to complete a tremendous amount of work in-house without using outside contractors.

Rob was a model employee who enjoyed his daily routine. He brought positivity and dedication to any task he undertook and was a pleasure to work with.

Rob was well-liked, and in between his work on any given day, could be heard in the office discussing classic cars with his fellow employees. Rob was also a very talented drummer and used to keep a set of drum sticks in his truck.

As a further dedication to his memory, the Central Maintenance staff has mounted his drum sticks above his desk in the shop. Today, we recognize the loss of a great man, a valuable co-worker, and most importantly, a true friend. Wherever the rest of your journey takes you Rob, may you be at peace.