This year, I am especially pleased and excited to present our Fourteenth [14th] Annual Report of the Mercer County Department of Transportation and Infrastructure. One of our most significant achievements this past year for Trenton Mercer Airport, which continues to expand its services and provide jobs and other economic opportunities for Mercer County, is completion of the Airport Master Plan. Achieving this important milestone enables us to move forward with replacing our current outdated terminal with a new, modern facility. Another important success this year has been our ability to take advantage of available State and federal funds, including over $8M for bridge reconstruction projects and nearly $5M in intersection upgrades and traffic safety enhancement. And for the first time in history, we have been able to use Federal Transit Administration Section 5310 Grants for reimbursement of operating expenses. Previously, these funds were only permitted for capital project expenditures. In 2018, the County executed an Agreement with NJ Transit for $100,000.00 in grant funds to offset operating costs. A grant has been obtained for Year 2019 through the same source in the amount of $150,000.00 for reimbursement of operating expenses. I am also pleased to report on our continued aggressive program to improve the quality of roadway surfaces through our in-house milling and resurfacing program. This year, we have successfully completed critical surface pavement rehabilitation of over 20.1 lane miles of County roadways.

None of these achievements would have been possible without the leadership of Mercer County Executive Brian M. Hughes working in close cooperation with the Mercer County Board of Chosen Freeholders. In summary, the Department of Transportation and Infrastructure is committed to making the Mercer County transportation system safe, reliable, affordable and accessible, which I strongly believe is demonstrated by our significant achievements in Year 2018 and important goals for Year 2019.

Aaron T. Watson
Deputy Administrator

Enhancing the quality of life for Mercer County residents by ensuring a safe, efficient and reliable transportation system today and into the future...
Administrative Staff

Mercer County Department of Transportation & Infrastructure

Aaron T. Watson, Deputy Director
Michele DeBlois, Confidential Secretary

Trenton-Mercer Airport
Melinda Montgomery, A.A.E., Airport Manager
Dale Carman, A.A.E., Assistant Airport Manager

Buildings & Grounds
Karl S. Thomas, General Supervisor of Trades
Peter Berkin, Supervisor of Trades

Engineering
George A. Fallat, P.E., County Engineer
Basit “Sunny” Muzaffar, P.E., Assistant County Engineer
Michele Rizziello, Confidential Secretary

Highways
Chris Markley, Superintendent of Public Works
Gene Pucci, Director of Public Works

TRADE [Transportation Resources to Aid the Disadvantaged and Elderly]
Martin DeNero, Director, TRADE
Junior Spence, Program Coordinator
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Melinda Montgomery, A.A.E., Airport Manager
Dale Carman, A.A.E., Assistant Airport Manager
Keith Herzstein, Confidential Assistant
Nilda Garcia, Administrative Analyst
Susan Celentano, Principal Word Processing Operator
Leticia Hernandez, Account Clerk
John Walczak, Clerk Typist

Operations Unit
Edward Berry, Airport Operations & Safety Officer [In Training]
Donald Kintzel, Airport Operations & Safety Officer
Matthew Parker, Airport Operations & Safety Officer
David Washington, Airport Operations & Safety Officer

Maintenance Unit
Joseph DiDonato, Road Supervisor 1
Kurt Neinstedt, Airport Maintenance Supervisor
[3] Laborers
[1] Maintenance Repairer
[1] Electrician

Parking Attendants
William Jones, full-time Parking Attendant
[13] Part-time Parking Attendants

Part Time, Seasonal Assistant
Joseph Immordino
Employee Continuing Education

Melinda Montgomery, A.A.E., Airport Manager attended the Northeast Chapter/American Association of Airport Executives [NEC/AAAE] 60th Annual Conference in Jersey City, NJ

Dale Carman, A.A.E., Assistant Airport Manager attended the Passenger Facility Charges Rates and Charges Workshops in Los Angeles, CA

Keith Herzstein, Confidential Assistant 1 attended the NEC/AAAE 60th Annual Conference in Jersey City, NJ

Nilda Garcia, Administrative Analyst attended the AAAE 29th Annual Airport Finance and Administration Conference in Melbourne, FL; attended the AAAE Capital Improvement Finance Planning Conference in New Orleans, Louisiana

Kurt Neinstedt, Airport Maintenance Supervisor attended the Airfield and Facilities Management Conference in Salt Lake City, Utah

David Washington, Airport Operations & Safety Officer attended the International Snow Symposium and Snow Academy in Buffalo, NY

Edward Berry, Airport Operations & Safety Officer attended Advanced Airport Safety and Operations Specialist School in San Antonio, TX; attended AAAE Specialist ASOS School in Atlanta, GA; attended Advanced Snow Academy in Buffalo, NY

William Jones, Parking Supervisor attended the 2018 National Parking Association [NPA] Convention & Expo in Las Vegas, Nevada

David Maldonado, Director of Communications/Airport Security Coordinator and Brian Walsh, Sheriff’s Officer attended the AAAE Law Enforcement Officers [LEO] Training School in Alexandria, VA

Jessica Plumeri, Undersheriff, David Maldonado, Director of Communications/Airport Security Coordinator, Chris Drew, Sergeant, Brian Walsh, Sheriff’s Officer attended the Airport Security Coordinator [ASC] Training On-line Course to obtain Certification as a ASC

David Maldonado, Director of Communications/Airport Security Coordinator, Chris Drew, Sergeant and Colleen Callan, Sheriff’s Officer attended the AAAE Airport Credentialing and Access Control Conference in Washington, DC
2018 Accomplishments

2018 Goal: Acquire additional commercial passenger destinations - This goal has been accomplished. In April and May, Frontier Airlines added four [4] new destinations: Charleston, Jacksonville, Nashville and Myrtle Beach.
2018 Goal: Focus on receiving a “perfect” [zero deficiencies] Federal Aviation Administration [FAA] Annual Inspection - *This goal was not accomplished.* Though the Airport did not receive a “perfect” FAA Annual Inspection in 2018, the findings were minor in nature and were not safety related. All findings were corrected immediately.

2018 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 a firm to complete wetland restoration with work having started in October 2018. The Airport will also be installing a new water main in the North quadrant of the airport, work which includes 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 2019.

2018 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 to develop a hangar on the former Naval Air Propulsion site.

2018 Goal: Complete the development of Standard Operating Procedures - *This goal has been partially accomplished,* through the update of the parking policies and procedures.

2018 Goal: Complete the development of Airport Minimum Standards - *This goal was not accomplished.* Staff is currently reviewing procedures for developing airport minimum standards and has obtained sample minimum standards from other facilities to assist in developing a draft document.
2018 Goal: Receive accepted Master Plan from FAA - This goal was accomplished. The FAA approved the Master Plan and Airport Layout Plan.
Other Accomplishments
In addition to the goals set forth for 2018, the following accomplishments have also been undertaken:

- Prepared thirty-six [36] Resolutions for various Airport projects/issues
- Acquired over $685,000 in FAA grants for various projects and equipment
- Acquired over $464,000 in NJDOT grants for various projects
- Collected over $1,900,000 in terminal parking revenue
- Collected over $1,300,000 in Passenger Facility Charges [PFC]
- Updated the Airport Certification Manual
- Completed an update of the Airport Wildlife Management Plan
- Held discussions with various potential new tenants
- Participated in the annual Take Your Child to Work Day event

*Take your Child to Work Day*
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.

2018 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.

2018 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 site for security and to discourage wildlife using the brush for cover.

2018 Goal: Continue to research ways to minimize airport closures during inclement weather, construction, and maintenance projects - This goal was accomplished, and continues to be pursued, by utilizing new FAA matrix formulas to better identify runway conditions.

Airport operations works closely with Airport Maintenance to minimize closures and to maintain a safe Airport operating environment during inclement weather conditions.
Other Accomplishments
In addition to the goals set forth for 2018, the following accomplishments have also been undertaken:

- Expanded utilization of APP 139; a customized, computerized airfield inspection program tool that saves time and increases efficiency, by the utilization of GPS and automated issuance of work-orders and documentation. Staff has been using the program for airfield work orders but has now expanded use to general work orders as well.


- Rehabilitation of Taxiways H, B, and F Project [NJDOT] Phase III has been completed. [Hotel, Bravo, Foxtrot]

- Rehabilitation of Runway 6-24 Project has been completed.

- Baggage Claim Addition Project has been completed.

- Taxiway Delta Reconstruction and Taxiway Golf Rehabilitation work began in June. At this time the project is on schedule and expected to finish before years’ end.

Left, Airfield surface markings were satisfied, along with a refresh of an enhanced taxiway centerline
Right, Rehabilitation of Runway 6-24 Project
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.

2018 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 NJ wing of the Civil Air Patrol’s Regional Search and Rescue Competition.

2018 Goal: Continue our noise abatement efforts - *This goal has been accomplished*. We have continued to respond to residents and pilots alike swiftly and professionally.

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

- Held public meetings as part of the Terminal Replacement Project.
- Hosted the Annual “Operation Dreamlift”, in support of handicapped/seriously ill children.
Facilities
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.

2018 Goal: 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 - This goal has been accomplished, and continues to be pursued. The baggage claim addition project was completed this year, which doubled the size of the baggage claim building to accommodate dual operations and to provide for restroom facilities. Two additional restrooms will be rehabilitated in the terminal this year. The Airport has also begun environmental assessment, site investigation and preliminary design work for a replacement terminal. Additionally, we are pursuing demolition of the on-site trailers formerly belonging to Mercer County Community College [MCCC] to expand airport land available for development.
2018 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 is anticipated by end of year and an emergency generator to provide power to the Parking Trailer is anticipated in early 2019.

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

- Airport Maintenance completed repairs to Taxiway Charlie and to the terminal apron aircraft parking spots.

- Lighting improvements were made to the Main Parking Lot.

Left: Terminal Apron Repairs
Right: Main Parking Lot
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, NJ Division of Aeronautics, NJ State Police, Ewing Police, Trenton EMS, Pennington Road Fire Company, 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.

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

2018 Goal: Conduct successful Annual Table Top Exercise – This goal has been accomplished.

2018 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.


**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, coordinated emergency response planning, industry updates, and the like. In total, staff at TTN participated in approximately 300 meetings with representatives of numerous government entities.

2018 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 2018, the following accomplishments have also been undertaken:

- Airport Manager Montgomery served as Chair of the American Association of Airport Executives [AAAE] Professional Development Committee, Member of the Northeast Chapter Academic Relations Committee, and a member of the AAAE National Operations and Security Committee.
- Airport Manager Montgomery spoke at the Delaware Valley Regional Planning Commission [DVRPC] Regional Aviation Committee Meeting in March. The meeting was held at TTN.
- Airport Manager Montgomery spoke at Alliance for Action in August.
- Airport Manager Montgomery, at the request of the County Engineer, presented to a foreign delegation.
- Staff attended various meetings with other County offices and staff, on a number of important issues, such as wildlife management, environmental compliance, and new commercial service.
- Staff attended airport users meetings to discuss TTN related subjects and enhancements.

In addition to commercial service, TTN is home to a robust blend of General Aviation and Corporate aircraft. Likewise the airport also occasionally accommodates military aircraft as can be seen to the left.
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] 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.

2018 Goal: Badge close-in SIDA tenants, namely condo and T-hangar tenants
- This goal was not accomplished, as it is not currently required.

2018 Goal: Perform successful re-badge of SIDA badge holders by May 2018
- This goal was accomplished.

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

- Completed installation of new access control in 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.
- Three MCSO airport unit members attended a credentialing/access control workshop and one member attended AAAE Law Enforcement Training.
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 it’s snow, employee safety training, or regulatory compliance, TTN is prepared to do battle in order to maintain the highest standards of professionalism and effectiveness.

2018 Goal: Continue safety training of airport staff - This goal has been accomplished, and continues to be pursued, such as with HazCom Training, Bloodborne Pathogen [BBP] Training, Commercial Driver’s License [CDL], and Personal Protective Equipment [PPE] Training.

2018 Goal: Attend airport training through AAAE, and other specialized training outlets - This goal has been accomplished, and continues to be pursued, such as training with App 139, Pavement Maintenance, Construction Management, ASOS School, Airport Finance, and the Snow Symposium. Training attended by staff in 2018 included the basic and advanced snow academies, basic and advanced airport operations safety and specialist [ASOS] schools, an airfield and facilities maintenance workshop, and a Passenger Facility Charge [PFC] workshop. Staff also attended two [2] 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.
2019 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.

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.

Facilities
- Continue to provide adequate space and facilities to accommodate the healthy growth of commercial passenger service at TTN, guided by 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.
– Begin design, siting and environmental studies relating to ARFF station relocation.

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 Annual Table Top 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.

TTN Parking Attendant providing directions and information to air travelers arriving at TTN
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.
Administrative Offices
Administration Building [640 South Broad Street]
Karl S. Thomas, General Supervisor of Trades
Joseph Termen, Program Monitor
1 Building Service Worker
3 Maintenance Repairers
1 Building Service Worker PT
1 Mail Clerk
1 Seasonal Assistant
1 Senior Maintenance Repairer
1 Heating & AC Mechanic

Central Maintenance [300 Scotch Road]
Peter Berkin, Supervisor of Trades
Brittany Stevenson, Clerk Typist
2 Senior Plumbers
1 Senior Painter
1 Senior Maintenance Repairer
1 Building Service Worker
1 Heating & AC Mechanic
1 Senior Building Service Worker
1 Laborer
2 Maintenance Repairers
1 Electrician – Central Maintenance
1 Seasonal Assistant

Correction Center [1750 River Road]
David Chiaramonti, Maintenance Supervisor
4 Maintenance Repairers
3 Boiler Operator/Maintenance Repairers
1 Laborer
**Court House** [175 South Broad Street, 209 South Broad Street, 400 South Warren Street]
John Runyon, Supervising Maintenance Repairer
3 Maintenance Repairers
1 Laborer II
1 Building Service Worker
1 Senior Building Maintenance Worker
1 Laborer
1 Senior Building Service Worker
1 Building Service Worker - Temp

**Dempster Fire Training Academy** [350 Lawrence Station Road]
Robert Pelley, Senior Maintenance Repairer

**Sewage Treatment Plant** [1750 River Road]
Thomas Marlatt, Sewage Plant Operator
1 Assistant Sewage Plant Operator

**Employee Continuing Education**


*Tab Still, Laborer* completed a Black Seal Training Program to achieve proficiency in Low Pressure Boiler Operations.
Mission Statement

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 Buildings & Grounds Maintenance Department provides physical support, custodial and maintenance services to 37 different county-owned facilities and several county offices located 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.

2018 Accomplishments

Administration

2018 Goal: Fiscal Year 2018 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 2018 budget is $8,859,727.00 and employs a staff 47 employees.

2018 Goal: Fiscal Year 2018 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 process. The Capital Budget is the actual funding for approved projects in the fiscal year covered by the operating plan. The total approved Fiscal Year 2018 Capital Budget is $1,150,000.00.

2018 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.
2018 Goal: Youth Detention Center Renovations – *This goal has been accomplished.* The contractor, Paul Otto Building Company has completed extensive renovations to the Mercer County Youth Detention Center. The County is in the process of completing a Request for Proposal [RFP] for the lease of renovated office space.

*Above: Renovations being completed by contractor Paul Otto Building Company at the Youth Detention Center located on 1430 Parkside Avenue in Ewing Township*
2018 Goal: Maintenance of Facilities – *This goal has been accomplished.* Building and Ground Maintenance provides all general and preventive maintenance services, including capital funded repairs and maintenance, for 28 major county facilities. The department also performs a variety of minor construction, structural revision and remodeling projects. Services include carpentry, painting, electrical, plumbing, heating, air conditioning, and other related maintenance work. In 2018, division personnel completed the following projects:

**Court House, 175 South Broad Street, Sheriff's Department Radio Room**
For security purposes, a renovation project was undertaken in the Radio Room.

**Correction Center**
- Installation of a new pole barn to house supplies.
- Installation of new concrete deck fencing and electricity for compactor at the loading dock.
Above: Installation of a new Pole Barn and below a new concrete deck, fencing and electricity for compactor at the Mercer County Correction Center located on River Road in Lambertville, NJ
– New circulating pump for the Fire Tank.

Above: Senior Plumber Robert D’Angelo installing a new circulating pump at the Mercer County Correction Center

Above: Shade Tree provided assistance with the installation of the circulating pump into the fire tank at the Correction Center

– Replacement of telephone poles that were comprised during the winter season.
**Dempster Fire Training Academy** [Fire School]

- An outdoor pavilion was constructed by Direct Hire at the Fire School to provide coverage for employees and students.

*Above: Completed installation of an Outdoor Pavilion located at Dempster Fire Training Academy on 350 Lawrence Station Road in Lawrence Township*
DOT & I Complex - The Mercer County Board of Chosen Freeholders ratified the Award of Bid received on June 8, 2017 to MJF Electrical Contracting for the installation of an Emergency Generator for the Mercer County Department of Transportation and Infrastructure Facility located at 300 Scotch Road in Ewing Township in an amount not to exceed $160,999.00. Mercer County is the recipient of a Sub-Grant Award from the New Jersey Office of Emergency Management [NJOEM] under the Hazard Mitigation Grant Program [HMGP] for the generator project in the amount of $136,849.15, and the County of Mercer in the amount of $24,149.85. An application was submitted to the Federal Emergency Management Agency [FEMA] in October for reimbursement of the County’s share.

Above: Completed installation of a new emergency generator located at the DOT & I Facility on 300 Scotch Road located in Ewing Township
Central Vacuuming System – Installation of a Central Vacuuming System was installed at the DOT & I Complex for the cleaning of County vehicles and equipment.

Mercer House – Installation of a new stove hood vent, completed by in-house personnel.

Above: Completed installation of a new Central Vacuuming System at the DOT & I Facility located on 300 Scotch Road in Ewing Township

Above: Senior Maintenance Repairer John Sanderson installing a new stove hood at Mercer House located on 1430 Parkside Avenue in Ewing Township
Prosecutor’s Office
Multi-Temp Mechanical, Inc. completed the installation of a new Heating, Ventilation Air Conditioning [HVAC] Unit on 1589 Lamberton Road.

Direct Hire
In April 2018, Mercer County and the Mercer County Buildings & Constructions Trades Council entered into an agreement with Direct Hire that would allow the County to tap qualified men and women of the local union trades for specific projects or construction work on a temporary basis. Under that agreement, Mercer County reaches out to the Trades Council to provide from its ranks the workers for a particular project, such as painters, plumbers or carpenters. Mercer County then temporarily hires the recommended workers to work in concert with the County’s full- and part-time staff. The following projects have been undertaken by Direct Hire this year:

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

Above: Completed installation of a new HVAC Unit for the Prosecutor’s Office located at 1589 Lamberton Road in the City of Trenton
- Installation of an Instructional Shed was completed by Direct Hire at the Dempster Fire Training Academy [*Fire School*].
**Purchasing** [Administration Building, 3rd Floor]
The construction of additional office space was necessary to expand the department.

*Above: Completed installation of a new HVAC Unit for the Prosecutor’s Office located on 1589 Lamberton Road in the City of Trenton*

**2019 Goals**

**Direct Hire** – Continue to utilize Direct Hire for various projects, county-wide.

**Environmental Testing and Abatement Services, county-wide** – Conduct air quality testing and reports, plus asbestos and mold assessments.

**Dempster Fire Training Academy [Fire School]** – Installation of a full facility generator for the Fire School and the Office of Emergency Management, and other various facility improvements.
**Prosecutor’s Office** – Installation of a full facility back-up generator and other various facility improvements at the office located on 1589 Lamberton Street in the City of Trenton.

**Fiscal Year 2019 Operating/Capital Budgets** – Plan, develop and review potential cost savings in various areas.

**NJ State Contract Purchases** – Exploit contract purchases in an effort to keep costs down.

**Maintenance of Facilities** – Provide services related to the maintenance of County-owned and occupied facilities [37] and grounds by maintaining the facilities in a safe and efficient manner.

**Interdepartmental Assistance Program [IAP]** – Continue to provide assistance to other departments/divisions as requested.

**Continuing Education** – Continue to explore training opportunities and offerings for employees.
2018 Annual Report

Engineering

Administrative Office
George A. Fallat, P.E., County Engineer
Basit “Sunny” Muzaffar, P.E., Assistant County Engineer
Michele Rizziello, Confidential Secretary III
Symone Seldon, Analyst Trainee

Bridges
Yueming Li, P.E., Principal Engineer, Bridges
Joseph Vena, P.E., Senior Engineer, Bridges
David Kramer, Principal Engineering Aide

Traffic
Jeffrey L’Amoreaux, P.E., Principal Engineer, Traffic
Eric A. Lips, Principal Engineer, Bridges

Employee Continuing Education
The following employees attended the 2018 Fall Forum held at Rutgers University on October 19, 2018:

George A. Fallat, P.E., County Engineer
Basit “Sunny” Muzaffar, P.E., Assistant County Engineer
Yueming Li, P.E., Principal Engineer, Bridges
Joseph Vena, P.E., Senior Engineer, Bridges
Jeffrey L’Amoreaux, P.E., Principal Engineer, Traffic
Mission Statement
The Engineering Division is responsible for project development, design, construction and maintenance of 687 bridges and culverts; nearly 300 electrically 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 to minimize the expenditure of County funds.

2018 Accomplishments

2018 Civil Engineer of the Year Award
On October 15, 2018, Mercer County Engineer, George A. Fallat, was presented with an award from the American Council of Engineering Companies [ACEC] for Civil Engineer of the Year. This award was presented by Mercer County Executive, Brian M. Hughes during a ceremony at the Forsgate Country Club in Jamesburg, NJ.
County Aid funds are appropriated by 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 shall include a certification detailing that allotted funds will only be expended on eligible costs for projects set forth in the approved ATP. The County received a total of $3,247,660 from Local Bridge, Fund Program and $5,479,329 from the Annual Transportation Program [ATP]. These funds, totaling $8,726,989.00, allowed the County to make various improvements to our infrastructure.

The Mercer County Board of Chosen Freeholders executed approval to submit applications securing $8,726,989.00 for 2018.
2018 Goal: South Clinton Avenue over Assunpink Creek [Bridge #140.6], City of Trenton – Award the project and commence construction. This goal has been accomplished and will continue into 2019. On May 24, 2018, the bid was awarded to the lowest bidder Sparwick Contracting in the amount of $2,189,338.00. Notice to proceed was issued on September 4, 2018. This project is scheduled for completion in 2019.
2018 Goal: Valley Road over Moore’s Creek and Bear Tavern Road Truss
Rehabilitation [Bridge #211.4], Hopewell Township – Award the project and
commence construction. This goal has been accomplished. On January 25, 2018,
the bid was awarded to State Line Contracting in the amount of $1,428,243.60.
This project was completed and road opened to traffic.

On November 22, 2016, a Professional Services Agreement was awarded to Genesis
Engineering for Engineering Design Services to rehabilitate the Valley Road
Bridge [#211.4] and the historical restoration of the relocated Bear Tavern
Road Truss previously located over Jacobs Creek in Hopewell Township. This
relocation of the historic truss was undertaken as part of the NJDEP permit
requirements for the Bear Tavern Road project which was completed in 2013. On
January 25, 2018, the award of bid for construction was awarded to State Line
Contracting. During the construction of the two [2] bridges located at Bear Tavern
Road, the Bear Tavern Road Truss was stored at the Howell Living Farm until a
permanent location was chosen. After numerous discussions, the County decided to
place the truss on the Valley Road Bridge [#211.4] to mimic the historic Bear Tavern
Road Bridge [214.2]. The bridge was completed and opened to traffic in November
2018.
2018 Goal: Cherry Valley Road over Beden Brook [Bridge #350.3], Municipality of Princeton, Mercer County and Montgomery Township, Somerset County – Award the project and commence construction. This goal has been accomplished and will continue into 2019. Mercer County entered into an Inter-County Agreement with the County of Somerset for the replacement of Bi-County Bridge #350.3. On September 13, 2018, the construction contract was awarded to Underground Utilities Corporation in the amount of $550,274.03 with each County responsible for 50% of the cost. Notice to proceed was issued on October 22, 2018. The duration of the project is ninety [90] calendar days. This project is scheduled for completion in 2019.
2018 Goal: Bakers Basin Road over the Shipetaukin Creek [Bridge 543.1], Lawrence Township - Commence construction. This goal has been accomplished and will continue into 2019. On August 13, 2018, the bid was awarded to Midlantic Construction, LLC in the amount of $1,651,142.29. Notice to proceed was issued on September 10, 2018. The duration of this project is 120-calendar days. This project is scheduled for completion in 2019.
Other Accomplishments
In addition to the goals set forth for 2018, the following accomplishments have also been undertaken:

**Old Trenton Road over Bridegroom Run [Bridge #745.3], West Windsor Township** – This goal has been accomplished and will continue into 2019. On August 13, 2018, the bid was awarded to Marbro Inc. in the amount of $1,651,142.29. Notice to proceed was issued on October 1, 2018. The duration of this project is one hundred fifty [150] calendar days. This project is scheduled for completion in 2019.

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**Old Trenton Road, Bridge #745.3, West Windsor Township** - Pictured right is the bridge structure before construction.

*Pictured below, the contractor, Marbro, Inc., performing ongoing construction.*
Cranbury Road over Big Bear Brook [Bridge #762.1] West Windsor Township – *This goal has been accomplished.* On August 10, 2017, the bid was awarded to Marbro Inc. in the amount of $3,547,117.00. Notice to proceed was issued on August 21, 2017. This project was completed and road opened to traffic.

2018 Accomplishments
Bridge Design Projects

2018 Goal: Lincoln Avenue over Assunpink Creek and Amtrak North East Corridor [140.9], City of Trenton - Complete the Local Concept Design and commence the award for the Preliminary Design – *This goal has been accomplished and continues to be pursued.* Due to the delay in executing the Agreement with NJDOT and the Federal Highway Administration [FHWA], the project is delayed.

2018 Goal: Mine Road over Stony Brook [Bridge #230.3], Hopewell Township – Award the contract and commence design. *This goal has been accomplished and continues to be pursued.* On November 20, 2017, the design project was awarded to IH Engineers in the amount of $310,882.95.
2018 Goal: Woosamonsa Road over a Tributary to Baldwins Creek [Bridge #236.4], Hopewell Township – Prepare and forward “Request for Proposals [RFP’s] to the selected consultants for their reply. Review responses and award the design contract to the most advantageous and qualified consultant. This goal has been accomplished, modified and will continue into 2019. Due to the condition of the bridge structure, it is more feasible to complete this project utilizing in-house bridge construction workers. Construction will commence in 2019.

2018 Goal: Woosamonsa Road over a Tributary to Baldwin’s Creek [Bridge #236.7], Hopewell Township – Prepare and forward thee “Request for Proposals” [RFP] to the selected consultants for their reply. Review responses and award the design contract to the lowest most responsible bidder. This goal has been accomplished. Due to the condition of the bridge structure, it was more feasible to complete this project utilizing in-house bridge construction workers. Notice to proceed was issued on October 9, 2018. The bridge was completed and opened to traffic on December 5, 2018.
2018 Goal: Alexander Street over Stony Brook [Bridge #330.1] and Alexander Street over a Branch of Stony Brook [Bridge #331.1], Princeton – Award the project and commence design. This goal has been accomplished and continues to be pursued. On April 11, 2017, the design project was awarded to Cherry Weber and Associates, P.C. in the amount of $650,977.95.

2018 Goal: Locust Lane over Harry’s Brook [Bridge #364.15], Princeton Township – Prepare and forward the “Request for Proposals” to the selected consultants for their reply. Review responses and award the design contract to the lowest most responsible bidder. This goal has been accomplished and will continue into 2019. On October 12, 2018, RFP’s were forwarded to selected consultants. The design contract will be awarded in 2019.

2018 Goal: Lower Ferry Road over Gold Run [#415.2], Ewing Township – Award the project and commence design. This goal has been accomplished and continues to be pursued. On September 14, 2017, French & Parrello Associates was awarded this contract in the amount of $212,329.00.

2018 Goal: Lower Ferry Road over Shabakunk Creek [Bridge 441.4], Ewing Township – This goal has been accomplished and will continue into 2019. On October 12, 2018, RFP’s were forwarded to selected consultants for the design of this bridge structure. The design contract will be awarded in 2019.

2018 Goal: Iron Bridge Road over Crosswicks Creek [Bridge #670.4], Townships of Hamilton and Chesterfield, Counties of Mercer and Burlington. Award the project and commence design. This goal has been accomplished and continues to be pursued. On April 11, 2017, Dewberry Engineers, Inc. was awarded the design contract in the amount of $512,923.00.

2018 Goal: Yardville-Groveville Road over Doctor’s Creek [Bridge #672.2], Hamilton Township – Award the contract and commence design. This goal has been accomplished and continues to be pursued. On April 11, 2017, Cherry, Weber and Associates, P.C. was awarded the design contract in the amount of $421,913.50.

2018 Goal: Windsor Road over the Assunpink Creek [Bridge No. 942.6], Robbinsville Township – Award the contract and commence design. This goal has been accomplished and continues to be pursued. On April 11, 2017, Boswell Engineering was awarded the design contract in the amount of $303,876.25.
2019 Goals

Bridge Construction Projects

South Clinton Avenue over Assunpink Creek [Bridge #140.6], City of Trenton
Complete construction project; open road to traffic.

Cherry Valley Road over Beden Brook [Bridge #350.3], Princeton, Mercer
County and Montgomery Township, Somerset County – Complete construction
project; open road to traffic.

Bakers Basin Road over the Shipetaukin Creek [Bridge 543.1], Lawrence
Township – Complete construction project; open road to traffic.

Old Trenton Road over Bridegroom Run [Bridge #745.3], West Windsor
Township – Complete construction project; open road to traffic.

Washington Crossing-Pennington Road over Woolsey’s Creek [Bridge
#216.6], Hopewell Township – Award the project and commence construction. In
July 2015, Johnson, Mirmiran & Thompson [JMT] was awarded the design
contract in the amount of $246,002.00.

Carter Road over Beden Brook [Bridge #250.3], Hopewell Township – Award
the project and commence construction. This goal was not accomplished in 2017
and 2018 due to a construction project undertaken by the NJDOT on NJ Route 206
which caused overlapping detour routes.

Hopewell-Rocky Hill Road over Branch of Beden Brook [Bridge 252.2 &
252.8], Hopewell Township – Award the project and commence construction. In
July 2015, the design project was awarded to Churchill Consulting Engineers in the
amount of $166,131.00. The project was delayed due to utility relocation by
Public Service Electric & Gas [PSEG] and Elizabethtown Gas.

Alexander Street over Stony Brook [Bridge 330.1 & 331.1, Municipality of
Princeton – Award the project and commence construction.
Yardville- Groveville Road over Doctors Creek [Bridge 672.2], Hamilton Township – Award the project and commence construction. In April 2017, Cherry Weber & Associates, P.C. was awarded the design project in the amount of $421,913.50.

Old Trenton Road over Tributary to Millstone River [Bridge 861.1], East Windsor Township – Award the project and commence construction. In July 2015, IH Engineers was awarded the design project in the amount of $160,178.00.

**2019 Goals**

**Bridge Design Projects**

Lincoln Avenue over Assunpink Creek and Amtrak North East Corridor [#140.9], City of Trenton - Complete the Local Concept Design and commence the award for the Preliminary Design.

Prospect Street over West Branch of Shabakunk Creek [Bridge #441.2], Ewing Township – Advertise the project; award the contract for design.

Millstone Road over Millstone River [Bridge #760.4] – Advertise the project; award the contract for design.

**Traffic and Roadway Projects**

The Engineering Traffic Division is responsible for preparing and overseeing contracts for the installation of traffic control devices, guiderail and repairs to other traffic safety features on county roads and county maintained infrastructure. In addition, roadway and traffic safety improvements are routinely requested from elected officials and local residents. The Engineering Division also procures outside funding for traffic signal upgrades and roadway safety improvements through the New Jersey Department of Transportation [NJDOT].
2018 Goal: Install Bicycle Lanes at various locations throughout Mercer County – *This goal has been partially accomplished.* Working together with the Mercer County Planning Division, we have identified several routes for installation of bicycle lanes. We have included road diets and designated bicycle lanes on Spruce Street and Arctic Parkway in an upcoming project. We have also received funding for installation of bicycle lanes on Washington Crossing Road. Next steps include preparing bid packages for construction. We are seeking outside funding for implementation.

2018 Goal: Implement Roadway Safety Enhancements using Federal Safety Funding – *This goal has been partially accomplished.* Preliminary plans, specifications and cost estimates have been developed for roadway and roadside safety improvements including high visibility markings and horizontal curve treatments. Since we are using federal funds, we are preparing other additional documentation for review.

2018 Goal: Complete the construction of Intersection Improvements using Quick Obligation Federal funding – *This goal has been accomplished.* Traffic signal upgrades and sidewalk ramp improvements have been completed at North Olden Avenue and Arctic Parkway; North Olden Avenue and Princeton Avenue; and Princeton Avenue and Spruce Street. The project was funded through the State Transportation Trust Fund Swap program.
2018 Goal: Construct traffic signal upgrades at the intersection of South Broad Street and Kim Valley in the Township of Hamilton - This goal has not been accomplished. This project will be included as part of the consultant task order agreement. Preparation of bid documents will be a goal for next year.
2018 Goal: Complete the Whitehorse-Mercerville Road [County Route 533] Signal Coordination Project, Hamilton Township, Lawrence Township and West Windsor Township – This goal has been accomplished. Signal upgrades, including construction of Americans with Disability Act [ADA] compliant sidewalk ramps have been completed at ten [10] intersections on Whitehorse-Mercerville Road and one [1] on Nottingham Way and East State Street. The project also includes installation of a wireless communication system which will enable the county to coordinate signal timings and monitor traffic signals along the entire County Route 533 corridor.
2018 Goal: Engineering Task Order Agreements - This goal has been accomplished. Working together with the Planning Division and our design consultants, the design of several projects are currently underway. This includes the intersections of Hamilton Avenue and Kuser Road and Old Trenton Road and Princeton-Hightstown Road Intersection Improvements. Next steps will include preparing the necessary documentation to obtain outside funding.

Intersection of Hamilton Avenue and Kuser Road, Hamilton Township

Intersection of Old Trenton Road and Princeton-Hightstown Road, West Windsor Township

2018 Goal: Brunswick Circle Extension and Princeton Pike, Lawrence Township
This goal has been partially accomplished. The consultant, Urban Engineers, selected to complete the design package for improvements, has completed its initial phase of concept development for construction of a roundabout at Princeton Pike and the Brunswick Circle Extension.

Proposed roundabout to replace the existing intersection
2018 Goal: Princeton-Hightstown Road Improvements - *This goal has been partially accomplished.* Preliminary plans, specifications and estimates have been completed for improvements to Princeton-Hightstown Road between Wallace-Cranbury Road and Clarksville Road. The overall project includes construction of sidewalk and widening to accommodate a two-way center left turn lane and bicycle compatible shoulders. Once approved by the State, we would proceed with advertising the project for construction.

2018 Goal: Cranbury Road and Clarksville Road - *This goal has been accomplished.* A temporary traffic signal was installed at the intersection to address traffic impacts associated with closing Bridge #762.1, Cranbury Road. The traffic signal was subsequently modified and made permanent when the bridge was reopened.
2018 Goal: Cranbury Road and Millstone Road - This goal has been accomplished. Prior to the reopening of Bridge #762.1, Cranbury Road, a new traffic signal was installed at the intersection. The new traffic signal is coordinated with the permanent signal at Cranbury Road and Clarksville Road to eliminate queuing between intersections. Additionally, emergency pre-emption equipment was installed at both intersections.

2018 Goal: Paxson Avenue and Hughes Drive Intersection Improvements – This goal has been accomplished. A new traffic signal was installed an operational in 2018.
2018 Goal: Guiderail Inventory and Upgrade Program – *This goal has not been accomplished.* Guiderail treatments recommended by the engineering firm of Johnson, Mirmiran and Thompson, Inc. [JMT], which completed a comprehensive inventory and assessment of existing guiderail on roadways and bridges maintained by Mercer County, will be undertaken under the extended contract in Year 2019.

2018 Goal: Parkway Avenue Road Diet – *This goal has been partially accomplished and will continue 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.

2019 Goals

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.
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. We propose to have the necessary approvals in place so that we can proceed with advertising the project.

2019 Goal: Prepare bid documents for traffic signal upgrades at the intersection of South Broad Street and Kim Valley Road, Hamilton Township
We propose to prepare plans and implement traffic signal upgrades and construct ADA compliant sidewalk enhancements in 2019.

2019 Goal: Prepare bid documents for traffic signal upgrades at the intersections of Hamilton Avenue, Kuser Road and Liberty Street, Hamilton Township - The Delaware Valley Regional Transportation Commission [DVRPC] has agreed to advance design and construction of proposed improvements through their Congestion Management Air Quality [CMAQ] program. The concept plans are acceptable to Hamilton Township.

2019 Goal: Engineering Task Order Agreements - 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.

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 compatible shoulders and would be completed in two phases. A goal for 2019 is implementing the first construction phase, Wallace-Cranbury Road to Alexander Road. This effort would also include acquisition of right of way.

2019 Goal: Guiderail Inventory and Upgrade Program - New guiderail treatments and elimination of unwarranted guiderail have been recommended for several locations by the engineering firm of Johnson, Mirimiran and Thompson, Inc. [JMT]. We proposed to initiate these recommendations in year 2019 through our on-call contract.
2019 Goal: Initiate Final Design for the Brunswick Circle Extension and Princeton Pike, Lawrence Township - 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.

2019 Goal: Construct ADA Compliant Sidewalk Ramps - Plans, specifications and estimates are being prepared for construction of ADA compliant sidewalk ramps on county roadways. Locations would include newly resurfaced and recently resurfaced roadway segments. We propose to advertise and initiate construction project in year 2019.

2019 Goal: Construct Widening and Signal Improvements at the Intersection of Old Trenton Road and Edinburg Road, West Windsor Township - 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 propose 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.

2019 Goal: Prepare Concept Plans for Improving Old Trenton Road and Princeton-Hightstown Road Intersection, East Windsor Township - 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 – 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.
2018 Annual Report

Highways
Roads, Bridges & Culverts, Mosquito Control, Motor Pool, Shade Tree, Traffic & Signal

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

Road Supervisors
Stephen Benner, Supervisor of Roads 1
Jose A. Burgos, Supervisor of Roads 1
Paul Franks, Supervisor of Roads 1
Edward A. Gregg, Jr. Supervisor of Roads 1
Francis J. Kelly, III, Supervisor of Roads 1
Richard Vitella, Supervisor of Roads 1

Road Inspectors
Joseph Solak, Senior Inspector
William Kelly, Inspector

Road Maintenance Staff
6 Heavy Equipment Operators-Asphalt
6 Heavy Laborers
4 Heavy Equipment Operators
12 Equipment Operators
4 Truck Drivers
1 Mason
14 Laborers
Employee Continuing Education
The following training classes were attended by the Road Unit:

- Annual New Jersey Asphalt Paving Conference
- Annual Public Works Conference
- Cardiopulmonary Resuscitation [CPR] and Automated External Defibrillator [AED] Respirator Fitting and Training
- Case 845B – Motor Grader Training
- Chainsaw Safety
- Construction Change Orders
- Construction Law in the Construction Industry
- Construction Math
- Construction Project Management
- Construction Specifications and Contracts
- Fire Safety
- Force America Training
- Fork Lift Certification
- Leaf Vac/Brine Unit training
- Right-to-Know
- Work Zone Safety Conference

845 Motor Grader
The purchase of this grader was advertised for bids and awarded to the lowest responsible bidder. Motor grader training was held for employees.
**Mission Statement**

The Division of Highways is comprised of six (6) divisions; Roads, Bridges, Mosquito Control, Motor Pool, Shade Tree and Traffic & Signal with (120) employees. Each of these 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.

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**2018 Accomplishments**

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**Administration**

2018 Goal: Operating/Capital Budget – Prepare budget and submit to Mercer County Board of Chosen Freeholders for approval. *This goal has been accomplished.* The proposed 2018 Operating Budget for the Roads Unit and the Capital Budget for Road Rehabilitation Projects has been submitted to the Deputy Administrator and Chief Financial Officer for review and adoption by the Mercer County Board of Chosen Freeholders.

**Maintenance of County Roadways**

2018 Goal: Conduct large-scale road construction, resurfacing and repair projects. *This goal has been accomplished.* Thirteen [13] 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. ADA facilities were retrofitted and upgraded to become compliant with the Americans with Disability Act [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].
City of Trenton
– Calhoun Street from Bellevue Avenue to Southard Street

East Windsor
– Monmouth Street from the Hightstown Borough Line to NJ Route 33
– Perrineville Road from Old York Road to Imlaystown Road

Milling and Resurfacing operation on Perrineville Road in East Windsor Township

Ewing Township
– Spruce Street from Arctic Parkway to Prospect Avenue
– Spruce Street from Prospect to Parkside Avenue
– Lower Ferry Road from Sullivan Way to Stuyvesant Avenue

Hamilton Township
– Edinburg Road from Hughes Drive to Mercer County Community College entrance

Hightstown
– Monmouth Street from Broad Street to North Main Street
– Monmouth Street from NJ Route 33Milford to Borough Line
**Hopewell Borough**
– Van Dyke Road from Hart Avenue to West Broad Street

**Hopewell Township**
– Washington Crossing Road from River Road to Bear Tavern Road

**Washington Crossing Road, Hopewell Township**
– Pennington-Harbourton Road from NJ Route 31 to Scotch Road
– Woodsville Road from Skyview to the County line

**Pennington**
South Main Street from Ingleside Avenue to Delaware Avenue

*South Main Street, Pennington Borough*
**2018 Goal: Resurface, repair and restripe county roadways - Goal accomplished.** The maintenance of nearly 180 miles (425 lane miles) of County Mercer County, NJ roadways is essential to ensure safety to the traveling public. Roadways were routinely inspected by our personnel. Pothole repair is an ongoing operation throughout the year. Motorists’ requests for assistance were received and responded to in a timely fashion.

**2018 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 3,000 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 [120] steel face plates and [95] 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 125 inlets were cleared and 70 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 1,350 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 1,000 gallons of herbicide were used to control the growth of weeds.**
Ice Control/Snow Removal Operation
Equipment and Staffing

2018 Goal: Snow Removal and Ice Control – Continue to ensure Mercer County roadways are clear of snow and ice to allow safe vehicle passage. Erect snow fence in locations throughout Mercer County to eliminate dangerous roadway conditions. This goal has been accomplished. Personnel from all Highway Division Units responded to fifteen [15] storm events during the 2017-2018 winter season. Over 8,925 tons of pre-treated salt was utilized at a cost of $780,550.75. The amount spent on labor to staff the sanding and salting vehicles was $467,609.71 with an additional $9,787.05 for meals. The total expense to ensure safe roadway conditions throughout the storms amounted to $1,257,947.51. 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.

![Mercer County Snowfall Graph](image-url)
2018 Goal: Snow Event Equipment and Staffing. This goal has been accomplished. During fifteen [15] snow events the coordination of manpower and equipment were properly implemented as per the chart below. Please note: Changing conditions will affect which chart below drives our response and our response will change accordingly.

Ice Emergency Service Requests – Staff and equipment as needed [Voluntary]

Small Snow/Ice Storm - Up to 1” Predicted by Weather Service
11 Plow/Salt Trucks w/Operators – Two [2] routes per truck
2 Front-end Loaders w/Operators – One [1] at Salt Dome [North & South]
1 General Supervisor – In office

If CURE Insurance Arena, McDade Administration Building or Mercer County Court activities warrant attention to parking lots, the below will be added:
2 Power Brooms/Operators
1 Plow/Salt Truck w/Operator

Mid-Size Snow/Ice Storm - 1” to 3” Predicted by Weather Service
22 Plow/Salt Trucks with Operators – 1 Route per Truck
2 Front-end Loaders with Operators – 1 at each Salt Dome (North & South)
2 General Supervisors – In Office (in Field as needed)
8 Crew Supervisors – 1 for each Plowing Zone (4 North & 4 South)

If CURE Insurance Arena, McDade Administration Building or Mercer County Court activities warrant attention to parking lots, the below will be added:
2 Power Brooms with Operators
1 Plow/Salt Truck with Operator
3 Pickup Trucks w/ attached plows and Operators
1 Crew Supervisor – On site[s]

Large Size Snow/Ice Storm - Over 3” Predicted by Weather Service
All equipment and available qualified personnel will be used
35 Plow/Salt Trucks/Operators
3 Front-end Loaders/Operators
3 Road Graders w/Operators
4 Backhoes w/ Operators
15 Pickup Trucks with attached plows and Operators
2 General Supervisors – In office [in field as needed]
11 Crew Supervisors – In field
2018 Goal: Installation of snow fence, County-wide – This goal has been accomplished. Snow accumulating on the side of the road has the potential to blow back on the roadway surface and cause 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 5, 2018. This year approximately 10,000 feet of snow fence [just shy of two miles] will be utilized.

Programs/Services

2018 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:

- **Dempster Fire Training Academy** [Fire School] – Milling for the construction of an Outdoor Classroom Facility.
- **Park Commission** – Milling and paving of a section at the Gas Pumps; Pole Barn Apron.
- **Pennington Borough** – South Main Street, repaired drainage that will enable residents to tie in to their sump pump.
2018 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 achieved. 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:

**East Windsor Township**

– Milled and repaired the apron for the East Windsor Township Fire Department.

*East Windsor Township Fire Company*
– Milled and resurfaced Millstone Road from Old Trenton Road to the East Windsor Township Line.

**Millstone Road from Old Trenton Road to the East Windsor Township Line**

**Hightstown Borough**
– Milled and paved 400 feet Airport Road.

**Pennington Borough**
– Academy Avenue from South Main Street to Burd Street.
– East Franklin Avenue from North Main Street to Eglantine Avenue.

**Princeton**
– Removed the parking lot west of Carter Road as requested by the Planning Department for the Mount Rose Preserve.

**2018 Goal: Shared Services - 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 provides shared services of equipment, labor and other resources to local municipalities. This year, the following equipment was requested:
Throughout various locations in Mercer County:
- Tac Truck was utilized for paving
- Stock piling of salt supplies at the Salt Dome
- Utilized the street sweeper
- Milling and paving driveways
- Hauled wood chips

2018 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 260 carcasses were removed and disposed of properly.

2018 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 22, 2018 and continued through the week of December 3, 2018. Residents were advised to rake leaves between their sidewalk and road curb. Specially-equipped unit trucks were dispatched to vacuum up the leaf piles.

**Transportation Asset Management Information System [TAMIS] Project**

2018 Goal: Enhance Data Management capabilities through increased use of our Transportation Asset Management Information System (TAMIS) and Geographic Information System [GIS] data collection – *This goal has been accomplished.* The Highway Division’s Roads unit is able to produce cost projections for all upcoming capital projects and is able to tie activities to defined pavement maintenance segments. Work continues on other major assets such as signs, signals, striping, storm drains, guiderail and bridges with signs, bridges and guiderails being the closest to complete.
Other Accomplishments
In addition to the goals set forth for 2018, the following accomplishments have also been undertaken:

Inspection of Projects and Permits – 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 77 Road Permits issued throughout the County.

2019 Goals

2019 Goal: Operating/Capital Budget – Prepare budget and submit to the Deputy Administrator for approval.

2019 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.

2019 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.

2019 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.

2019 Goal: Installation of snow fence, county-wide - Erect snow fencing in specific locations throughout the county.

2019 Goal: Interdepartmental Assistance Program (IAP) – Provide resources to assist other departments within the County.
2019 Goal: Municipal Assistance Program (MAP) – Continue to provide resources, labor and equipment to local municipalities for upgrades.

2019 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 leafs, 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, etc. DOT&I will continue to seek additional opportunities with municipalities.

2019 Goal: Deer Carcass Removal Services, LLC – Continue to provide contracted services.

2019 Goal: Annual Leaf Collection Program - Continue to update the Annual Leaf Collection program and schedule.

2019 Goal: Equipment Inventory Database - Provide shared services of equipment to local municipalities.

2019 Goal: Equipment: Continue to upgrade equipment to insure safety of personnel and improve work productivity.

2019 Goal: Training Opportunities - Continue to explore training opportunities and offerings.

2019 Goal: Continuity of Operations Plan (COOP) and Continuity of Government (COG) - Attend seminars and tabletop exercises to keep abreast of departmental plans.
Bridges & Culverts

Administrative Staff
Basit “Sunny” Muzaffar, P.E., Assistant County Engineer
Chris Markley, Superintendent of Public Works
Gene Pucci, Public Works Director
Richard L. Baker, III, Supervising Bridge Repairer
Nicholas F. Longo, Supervising Bridge Repairer

Bridge Construction
8 Bridge Repairmen

Employee Continuing Education
The following training classes were attended by the Bridges & Culverts Unit:

- Cardiopulmonary Resuscitation [CPR] and Automated External Defibrillator [AED] Respirator Fitting and Training
- Commercial Driver’s License [CDL] 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
**2018 Accomplishments**

**2018 Goal:** Complete State-mandated Priority Repairs for all structures 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 structure sufficiency ratings in which the department uses to prioritize bridge rehabilitation or replacement projects.

Fiscal Year 2018 was the 6th year of the new mandatory inspection program for all structures less than twenty [20] feet in addition to the inspection program for structures over twenty [20] feet. In addition, the Bridges & Culverts Unit identifies bridge structures to replace in-house. This year, the following repairs or reconstruction projects were accomplished in the following municipalities:

**City of Trenton**
- Broad Street, [Bridge #140.2] – Core drilled holes in sidewalk for new sign installation; transported and installed jersey barricades on bridge structure.
- North Olden Avenue [Orphan Bridge, NIDOT #1149167] – Replaced pedestrian sidewalk. [*Priority Report*]
**East Windsor Township**
- Old Cranbury Road, [Bridge #860.3] – Replaced deteriorated wood parapet handrails with composite rails.
- Etra Road, [Bridge #864.1] - Repaired guiderail due to a motor vehicle accident.
- North Main Street, [Bridge #860.6] – Cut out and patched bridge deck with SLQ pavement patch. [Priority Report]
- Dutchneck Road, [Bridge #862.1] – Scraped and painted pedestrian handrails; trimmed back brush and overgrowth around bridge structure.

**Ewing Township**
- Lower Ferry Road, [Bridge #441.4] – Scraped and painted pedestrian handrails; trimmed back brush and overgrowth around bridge structure.
- Lower Ferry Road, [Bridge #441.11] Scraped and painted pedestrian handrails; trimmed back brush and overgrowth from around bridge.
- Central Avenue, [Bridge #441.20] – Cut out and patched bridge deck with SLQ pavement patch; cleared flood debris from under bridge structure. [Priority Report]
- Parkside Avenue, [Bridge #120.4] - Cleaned off drainage grate at park to restore water flow.

*Central Avenue, [Bridge #441.20]*
*Ewing Township*
- Bull Run Road, [Bridge #2-442.6] – Scraped and painted pedestrian handrails; trimmed back brush and overgrowth around bridge structure. 
  [Ewing Township/Hopewell Township]

- Bull Run Road, [Bridge #2-442.7] – Scraped and painted pedestrian handrails; trimmed back brush and overgrowth around bridge structure. 
  [Ewing Township/Hopewell Township]

- Grand Avenue, [Bridge #415.3] - Cleaned out drainage ditch with mini excavator; poured concrete and installed core stone in washout; scraped and painted pedestrian handrails; trimmed back brush and overgrowth around bridge structure.

- Stratford Avenue, [Bridge #441.33] – Scraped and painted pedestrian handrails; trimmed back brush and overgrowth around bridge structure.

- Carlton Avenue, [Bridge #441.6] – Trimmed back brush and overgrowth around bridge structure.


- Ewingville Road, [Bridge #442.4] – Removed and replaced pedestrian sidewalk.
Hamilton Township
- Whitehead Road, [Bridge #6-540.2] – Installed core stone along washed out footing. [Priority Report] [Hamilton Township/Lawrence Township]

- Crosswicks Hamilton Square Road, [Bridge #671.6] – Cut up and removed guiderail from side of road.

- Church Street, [Bridge #670.3] – Cut out and patched bridge deck with SLQ pavement patch; removed deteriorated part of concrete bridge deck and replaced with new concrete. [Priority Report]

- Klockner Road, [Bridge #641.2] – Cut out and patched bridge deck with SLQ pavement patch. [Priority Report]

- Edinburg Road, [Bridge #641.7] – Trimmed back brush and overgrowth around bridge structure.

- Nottingham Way, [Bridge # 6-140.13] – Removed standing water, using 6 inch pump.[Hamilton Township/City of Trenton]

Hightstown Borough
- North Main Street - Drained flooded farm field, using 6 inch pump.

North Main Street
Pennington Borough
Hopewell Township
– Pleasant Valley Road, [Bridge #211.16] – Repaired damaged guiderail.

– Valley Road, [Bridge #211.4] – Transported jersey barriers for contractor.

– Valley Road, [Bridge #211.8] – Replaced damaged guiderail.

– Pleasant Valley Harbourton Road, [Bridge #211.14] – Installed core stone at washout from storm.

– Fiddlers Creek Road, [Bridge #212.4] – Scraped and painted pedestrian handrails; trimmed back brush and overgrowth around bridge structure.
– Pennington Titusville Road, [Bridge #214.6] – Installed new wraparound end and replaced damaged one.

– Pennington Harbourton Road, [Bridge #214.12] – Excavated stream bed and installed concrete blocks to prevent erosion and covered with core stone.

– Woosamonsa Road, [Bridge #214.15] – Repaired washout with core stone.

– Poor Farm Road, [Bridge #214.21] – Installed core stone in washout from storm.

– River Road, [Bridge #218.1] – Removed flood debris from side of bridge.

– Mine Road, [Bridge #230.3] – Moved jersey barricades for contractor to perform soil borings.

– Old Mill Road, [Bridge #230.9] – Removed flood debris from bridge deck; straightened bent bridge rails.

– Moore’s Mill Mount Rose Road, [Bridge #232.7] – Scraped and painted pedestrian handrails; trimmed back brush and overgrowth around bridge structure; repaired washed out abutment wall and patched road. [Emergency Repair]

– Elm Ridge Road, [Bridge #232.15] – Removed and replaced storm damaged guiderail.

– County Route 518, [Bridge #234.8] – Replaced deteriorated wood parapet rails with composite rails; removed debris blocking drain pipe.

– Stony Brook Road, [Bridge #234.9] – Repaired damaged guiderail due to a motor vehicle accident, emergency repair.

– Moore’s Mill Mount Rose Road, [Bridge #235.5] – Completed culvert replacement, in-house
– Woosamonsa Road, [Bridge #236.4] – Repaired damaged due to a motor vehicle accident, emergency repair.

– Mountain Church Road, [Bridge #237.4] – Repaired damaged guiderail.

– Denow Road, [Bridge #241.8] – Replaced deteriorated wood parapet handrails with composite rails.

– Carter Road, [Bridge #250.3] – Repaired damaged guiderail.

– County Route 654 [at train Bridge] - Repaired guiderail due to a motor vehicle accident, emergency repair.


– Harbourton Woodsville Road, [Bridge #235.9] – Removed debris blocking water flow and installed core stone in washout.
Woosamonsa Road, [Bridge #236.7] – In-house bridge replacement commenced on October 9, 2018. The bridge was completed and opened to traffic on December 5, 2018.

Lawrence Township

Province Line Road, [Bridge #520.2] – Removed and replaced pedestrian sidewalk. [Priority Report]

Princeton Pike, [Bridge #541.6] – Scraped and painted pedestrian handrails; trimmed brush and overgrowth around bridge structure.

Texas Avenue, [Bridge #541.15] – Removed and replaced pedestrian sidewalk.

Princeton Pike, [Bridge #542.2] - Replaced deteriorated wood parapet rails with composite rails.

Franklin Corner Road, [Bridge #542.9] – Repaired guiderail due to a motor vehicle accident, emergency repair.
– Keefe Road, [Bridge #543.15] – Completed culvert repair, in-house; repaired guiderail due to a motor vehicle accident, emergency repair.

– Basin Road, [Bridge #544.5] – Scraped and painted pedestrian handrails; trimmed brush and overgrowth around bridge structure.

**Pennington Borough**
– Pennington Rocky Hill Road, [Bridge #230.7] – Replaced deteriorated wood parapet handrails with composite.

– Eglantine Avenue, [Bridge #233.15] - Scraped and painted pedestrian handrails; trimmed brush and overgrowth around bridge structure.
– North Main Street, [Bridge #233.16] – Removed and replaced pedestrian sidewalk; scraped and painted pedestrian handrails; trimmed brush and overgrowth around bridge structure.

Municipality of Princeton

– Pretty Brook Road, [Bridge # 337.1] – Installed core stone under washed out footing.

– Little Brook Road, [Bridge #364.11] – Cut out and patched deteriorated concrete headwall with SLQ pavement patch.

– Poe Road, [Bridge #364.13] - Scraped and painted pedestrian handrails; trimmed brush and overgrowth around bridge structure.
Robbinsville Township
- Meadow Brook Road, [Bridge #942.1] – Repaired guiderail due to a motor vehicle accident, emergency repair.
- Windsor Road, [Bridge #942.3] – Scraped and painted pedestrian handrails; trimmed brush and overgrowth around bridge structure.
- Windsor Road, Bridge #943.1 – Scraped and painted pedestrian handrails; trimmed brush and overgrowth around bridge structure.
- Circle Drive, [Bridge #972.2] - Repaired guiderail due to a motor vehicle accident, emergency repair.

West Windsor Township
- Penn Lyle Road, [Bridge #721.7] – Opened clogged drainage pipe.
- Old Trenton Road, [Bridge #745.2] – Scraped and painted pedestrian handrails; trimmed brush and overgrowth around bridge structure.

- Dutchneck-Edinburg Road, [Bridge #745.4] – Cut-out and patched bridge deck with SLQ pavement patch; trimmed brush and overgrowth around bridge structure.

- South Lane, [Bridge #745.5] – Installed 1½ inch clean stone in drainage ditch for contractor to install new guiderail.

- Windsor Road, [Bridge #745.8] – Cleared brush, trees and opened up drainage ditch, resident complaint.

- Princeton-Hightstown Road – Repaired guiderail due to a motor vehicle accident, emergency repair.

- Cranbury Road, [Bridge #762.1] – Removed guiderail for contractor working on bridge project.

- Meadow Brook Road, [Bridge #9-745.1] – Repaired guiderail due to a motor vehicle accident, emergency repair.

**2018 Goal: Interdepartmental Assistance Program [IAP] - Provide resources to other departments within the County.** *This goal has been accomplished.* The Bridges & Culverts Unit provided the following labor and material:

- **DOT & I Complex** - Hauled millings; used equipment and operators for various projects at the North and South Dome; pumped out salt conveyor pit.

- **Courthouse [175 South Broad Street]** - Used equipment and operators to mill various small paving projects.

**2018 Goal: Snow Removal and Ice Control Assistance – Respond to storm events, ensuring safe passage of vehicles.** This goal has been achieved. Unit personnel responded to fifteen [15] storm events during the 2017-2018 snow season.
2019 Goals

State mandated Priority Repairs – The State of New Jersey Bridge Inspections will continue to determine structure sufficiency ratings in which the department uses to prioritize bridge rehabilitation or replacement projects. As directed by the Engineering Division, priority repairs will be completed.

Projected Construction Projects
- Pleasant Valley Harbourton Road over a Tributary of Moore’s Creek, [Bridge #211.14], Hopewell Township;
- Pleasant Valley Harbourton Road over a Tributary of Moore’s Creek, [Bridge #211.16], Hopewell Township;
- Pennington Harbourton Road over a Tributary of Jacobs Creek, [Bridge #213.13], Hopewell Township;
- Pennington Harbourton Road over a Tributary of Jacobs Creek [Bridge #213.14], Hopewell Township;
- Province Line Road, over a Tributary of Bedens Brook, over a Tributary of Bedens Brook, [Bridge #255.2], Hopewell Township.

Maintenance – Continue to provide incidental maintenance to the 688 bridge structures, such as guiderail repair and debris removal.

Respond to Emergency Calls and Potential Threats – Respond to emergencies and remediate threats as warranted.

Interdepartmental Assistance Program [IAP] - Provide resources, equipment and labor to assist other departments/divisions.

Snow Removal and Ice Control Assistance – Provide assistance to the Road Unit during snow/ice events.

Training Opportunities - Provide opportunities for professional development to department members 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.
Mosquito Control

**Administrative Staff**
Chris Markley, Superintendent of Public Works
Gene Pucci, Public Works Director
Nicholas Indelicato, Supervising Mosquito Extermination
Michael J. Milewski, Supervising Mosquito Extermination
1 Senior Mosquito Extermination
6 Inspector Mosquito Extermination
1 Seasonal Assistant

**Employee Continuing Education**
New Jersey Mosquito Control Association [NJMCA], Atlantic City, NJ
Nicholas Indelicato, Supervising Mosquito Extermination
Michael J. Milewski, Supervising Mosquito Extermination
Christopher C. Weber, Inspector, Mosquito Extermination

New Jersey Mosquito Control Annual Pesticide Recertification Training Course – [2 Sessions]: Atlantic City, NJ and East Windsor, NJ
Nicholas Indelicato, Supervising Mosquito Extermination
Michael J. Milewski, Supervising Mosquito Extermination
Ronald Oppenheimer, Senior Mosquito Extermination
Christopher C. Weber, Inspector, Mosquito Extermination
William Voorhees, Inspector, Mosquito Extermination
Daniel Scozzaro, Inspector, Mosquito Extermination
William H. Cook, Inspector, Mosquito Extermination

American Mosquito Control Association [AMCA], Kansas City, MO
Nicholas Indelicato, Supervising Mosquito Extermination
Pennsylvania Vector Control Association [PVCA], State College, PA
Nicholas Indelicato, Supervising Mosquito Extermination

Evaluating Insecticide Resistance in Vectors Using the Center for Disease Control [CDC] Bottle Bioassay Workshop, Flemington, NJ
Nicholas Indelicato, Supervising Mosquito Extermination
Kurt Neinstedt, Inspector Mosquito Extermination
Stephanie Sparano, Seasonal Assistant

Tick Blitz Training Workshop, Bordentown, NJ
Nicholas Indelicato, Supervising Mosquito Extermination
Ron C. Oppenheimer, Senior Inspector Mosquito Extermination

Evaluating Insecticide Resistance in Vectors Using the Center for Disease Control [CDC] Bottle Bioassay Workshop, Flemington, NJ
Nicholas Indelicato, Supervising Mosquito Extermination
Kurt Neinstedt, Inspector Trainee, Mosquito Extermination
Stephanie Sparano, Seasonal Assistant
Mission Statement

The mission of the Mercer County Mosquito Control Program is to provide safe, effective, environmentally friendly, and economic mosquito management for the County of Mercer. We provide continual surveillance of mosquitoes to determine the threat of disease transmission and annoyance levels and then use environmentally sound integrated pest management techniques to keep mosquitoes below those levels. Our personnel employ a variety of methods to reduce and manage mosquito populations throughout the County.

2018 Accomplishments

2018 Goal: Provide larvicide and adulticide control measures – This goal has been accomplished. The past 12 months have seen the 2nd warmest October, 4th warmest May, 1st warmest August, and the 3rd warmest September. June through September saw an average temperature of 73.3 [+2.5] making it the 4th warmest over that stretch on record. August through September saw an average temperature of 73.7 [+4.3] and that is the warmest on record for that period. With the exception of June, every month in 2018 was above average for precipitation. February ranked as the 3rd wettest since records have been kept [1895] [Robinson, 2018]. March, April, and May were all well above-average, which led to the Unit being extremely busy in the preseason and necessitated aerial larviciding applications via helicopter for the second straight year to pretreat problem areas around the county. June offered some relief from rainfall, but July, August, and September all were back to being well above-average. Increased temperatures coupled with above-average precipitation perpetuated the 2018 mosquito season, leaving us with a total of 526 service requests from residents, about 200 more than last year. Most of these requests for service originated from Hamilton Township and were typically found to be container-inhabiting mosquito issues.
In response to local mosquito populations, mosquito inspectors used the following amounts of pesticide:

<table>
<thead>
<tr>
<th>In response to local mosquito populations, mosquito inspectors used the following amounts of pesticide:</th>
<th>Larvicide treatments took place countywide on 372 acres of land during 500+ inspections. Adulticide treatments covered approximately 2,600 acres of land and 18 applications were conducted throughout the county.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2280 pounds Spheratax</td>
<td>May adulticide treatments: 5/24</td>
</tr>
<tr>
<td>12,800 pounds of VectoBac G/GS</td>
<td>June adulticide treatments: 6/7, 6/22</td>
</tr>
<tr>
<td>2400 pounds of VectoPrime FG</td>
<td>July adulticide treatments: 7/3, 7/5, 7/7, 7/20, 7/31</td>
</tr>
<tr>
<td>400 pounds of VectoMax</td>
<td>August adulticide treatments: 8/3, 8/10, 8/17, 8/24, 8/31</td>
</tr>
<tr>
<td>80 pounds of MetaLarv</td>
<td>September adulticide treatments: 9/7, 9/14, 9/20</td>
</tr>
<tr>
<td>2.5 Gallons of Altosid liquid larvicide</td>
<td>October adulticide treatments: 10/5, 10/12</td>
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<tr>
<td>700 Altosid XR briquetts</td>
<td></td>
</tr>
<tr>
<td>254 Altosid briquetts</td>
<td></td>
</tr>
<tr>
<td>173 pounds of Altosid pellets/granules</td>
<td></td>
</tr>
<tr>
<td>50 pounds of Natular XRG</td>
<td></td>
</tr>
<tr>
<td>880 Natular XRT tablets</td>
<td></td>
</tr>
<tr>
<td>4000 Natular DT tablets</td>
<td></td>
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<tr>
<td>69 gallons of Co-Co Bear Oil</td>
<td></td>
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<tr>
<td>168 pounds of VectoBac WDG</td>
<td></td>
</tr>
<tr>
<td>70 gallons of Anvil</td>
<td></td>
</tr>
<tr>
<td>5 gallons of AquaDuet</td>
<td></td>
</tr>
<tr>
<td>45 gallons of Duet</td>
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<tr>
<td>122.5 gallons of Zenivex E4</td>
<td></td>
</tr>
</tbody>
</table>

Routine larval surveillance throughout the county was conducted yielding 108 samples which inspectors brought to the lab for identification to species. 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.

**2018 Goal:** Respond effectively to service requests – *This goal has been accomplished.* A total of 526 service requests were received and responded to in 2018.
2018 Goal: Disease Surveillance – This goal has been accomplished. During the 2018 season, the Unit carried out extensive vector surveillance operations. A total of 350 pools were submitted for West Nile Virus [WNV] testing from 110 locations throughout the county. Of the pools submitted, 42 returned positive giving us an overall minimum field infection rate of 7.26 compared to last year’s 1.84 [MFIR = the number of infected mosquitoes per 1,000].
Tick Surveillance – The Unit sent employees to participate in the “Tick Blitz” led by Rutgers Center for Vector Biology and funded by the USDA Northeastern Integrated Pest Management Center. This event provided information and a plan for a coordinated tick surveillance campaign conducted on May 10, 2018 by all 21 NJ county mosquito control departments. As a result, the Asian Longhorned Tick [*Hæmaphysalis longicornis*] was detected for the first time in Mercer County. It had previously been observed in 2017 across seven states, New Jersey among them. Six counties have positively identified it since: Hunterdon, Union, Middlesex, Bergen, Monmouth, and Mercer. These ticks target livestock, wildlife, and humans, but can reproduce even without a blood meal. In other countries, Asian Longhorned ticks are recognized as a vector of diseases, such as Lyme and spotted fever. As of October 2018, no human pathogens have been detected in Asian Longhorns in the United States.
2018 Goal: Increase Training of Staff – *This goal has been accomplished.* The Unit attended the New Jersey Mosquito Control Association’s 105th annual convention for training and to update the necessary pesticide license credits. Staff was also in attendance for an insecticide resistance workshop titled “Evaluating Insecticide Resistance in Vectors Using the CDC [Center for Disease Control] Bottle Bioassay.” Mosquitoes continuously exposed to pesticides can become resistant over time, and testing local mosquito populations for resistance to commonly used insecticides is an extremely important step in maintaining control of larval and adult mosquito populations. This workshop was a collaborative effort between the NJ State Mosquito Control Commission, NJ Mosquito Control Association, Mercer County Mosquito Control and Hunterdon County Mosquito and Vector Control Program.

2018 Goal: Water Management – *This goal has been accomplished.* The Unit completed 78 water management projects throughout the county including deconstructing beaver dams and unclogging ditches basins.

2018 Goal: Tire Removal Program – *This goal has been accomplished.* The Unit continued our proactive approach this year concerning container mosquitoes as a public health threat, and ramped up our source reduction tire removal. This year more than 350 tires were collected from abandoned tire piles, residents needing assistance, and routine inspections.
2018 Goal: Subject - Matter Leadership – *This goal has been accomplished.* The Unit has continued to disseminate operational and biological information about mosquitoes through scientific publications and presentations. This year the Unit attended four national and regional meetings in order to present the findings of scientific research. Two manuscripts were published this year.

Meetings attended:

– New Jersey Mosquito Control Association [NJMCA]
– American Mosquito Control Association [AMCA]
– Pennsylvania Vector Control Association [PVCA]
– Northeastern Mosquito Control Association [NMCA]

Publications:

– Unlu, Isik, Mark A. Baker, Nicholas Indelicato, Derek Drews, Zishuo Zeng, and Rajeev Vaidyanathan. "Nighttime applications of two formulations of pyrethroids are effective against diurnal Aedes albopictus." *Journal of the American Mosquito Control Association* 34, no. 2 [2018]: 158-162.

2018 Goal: Public Outreach and Education – The Mosquito Control Unit staff attended public events helping to increase public awareness and emphasizing the importance of mosquito control, empowering residents to take corrective actions to reduce mosquito populations on their own properties. Public outreach was strongly emphasized as we distributed educational materials and brochures. In total, the Unit has disseminated roughly 1200 informative pamphlets to residents of Mercer County at community events and various households while conducting service requests.

Functions attended include:

– City of Trenton’s Youth Fishing Derby
– Mercer County’s 4H Fair
– Master Gardeners of Mercer County’s 14th annual Insect Festival
– Valley Forge Educational Services’ Community Day
2019 Goals

Increase training of staff – Continue professional training for technical field staff during 2019. Provide opportunities for field staff to become more involved at the state and regional levels.

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.

Respond to service requests – Increase the efficiency of response to service requests from residents and reduce the need for recurrent inspections.

Provide larviciding control measures – Continue to provide efficient and efficacious larval control measures for the residents of Mercer County.

Provide adulticide control measures – Continue to provide efficient and efficacious adult control measures for the residents of Mercer County.
Assist other state and regional programs to suppress 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.

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

**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.

**Subject-matter Leadership** – The Unit staff will continue to disseminate operational and biological information on mosquitos through scientific publications. Sharing our findings, trials and tribulations with other mosquito control programs helps advance operational knowledge and better addresses health related hazards.

**Tick Surveillance** – The Unit will keep a close eye on, and prepare for New Jersey Assembly Bill 4459, which if passed, would add tick surveillance and control responsibilities to state and county mosquito control commissions.

**References**
Motor Pool

Administrative Office
Chris Markley, Superintendent of Public Works
Gene Pucci, Public Works Director
Vincent Russo, General Supervising Mechanic
Jodi Hawryluk, Assistant Administrative Analyst
Charles C. Beauchamp, Supervising Mechanic II
William H. Buck, Supervising Mechanic II
Edward Kacorz, Supervising Mechanic II
3 Senior Mechanics
3 Senior Mechanics Diesel
1 Senior Welder
5 Mechanics
3 Mechanic Helpers
1 Storekeeper

Employee Continuing Education
Motor Pool employees participated in the following training opportunities:

- Defensive Driving
- Fire Safety
- Fire Extinguisher
- Forklift
- Lockout/Tagout
- Shop & Tool Safety
- Hazmat Awareness/Hazmat Communication
- Commercial Driver’s License [CDL]
- Controlled Substance & Safety Regulations
- Case 845B Motor Grader Training
- Boss Plow Training
- “Diesel for the Gas Guys” Training
- Asset Works – Fuel Ring Installation
- Training

New Jersey Motor Vehicle Inspector License Upgrades
One [1] Motor Pool employee earned their New Jersey Department of Motor Vehicle [NJDMV] Inspector License. To earn the upgrade, the employee attended a one-day training class held at Burlington County College followed by a performance test at the Department of Transportation & Infrastructure Facility [DOT & I] by a New Jersey Motor Vehicle representative. Motor Pool now has a total of nine [9] licensed Inspectors for gasoline and twelve [12] licensed Inspectors for diesel.
Class A&B Operator for Underground Storage Tank [UST]

NJ Step Training
Two [2] Motor Pool employees attended the NJ Supervisor Training Empowering Performance, one day a week for seven weeks course.

Mission Statement
The mission of the Motor Pool Division is to plan for, acquire, maintain and dispose 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.

Fleet Services
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.

Pictured above is the newly purchased Brine Truck which is a combination brine/leaf pickup vehicle that provides a savings of time and money.
**Vehicle Maintenance**
Assist departments with vehicle specification, purchase and maintenance.

**Road Side Assistance**
Provide employees using County vehicles with 24-hour roadside assistance and towing services.

**Motor Pool Vehicles**
Manages and maintains County motor pool vehicles including acquisition, administration and dispatching.

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**2018 Accomplishments**

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**Administration**

2018 Goal: Complete 2018 Budgets and continue to look for ways to reduce expenses. 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 2018 Capital Improvement Plan was prepared and submitted for approval by the Mercer County Board of Chosen Freeholders. The total approved Fiscal Year 2018 Capital for the Division of Motor Pool is $5,802,000.

[Image: Highway Aquatech Truck: left, Matt Richards center, Dave Gibson, right, Britt Harrison]
2018 Goal: Continue to look for opportunities to save County funds by utilizing advantageous pricing offered by the New Jersey State Contract, Somerset County Co-Op and National Intergovernmental Purchasing Alliance [IAP]. This goal has been accomplished. New Jersey State Contract, along with Middlesex County Educational Services Commission Co-Op for the purchase of the following vehicles/equipment:

NJ State Contract
- 1 Ford F350 truck with dump body
- 1 Electrician Van
- 5 Ford F250 trucks
- 1 Ford F450 truck with dump body
- 4 Chevy Tahoes
- 1 Dodge Journey

Combination Brine/Leaf Unit
Middlesex County Educational Services Commission Co-Op

1 20 Ton Trailer
2 Workman 07273
1 Workman 07042
1 Turfco Slicer/Seeder
2 Toro Groundsmaster Mowers
1 Toro 4300D
1 Toro RM5410-D
3 Dodge Grand Caravans
1 Ford Transit 8 Passenger Van
2 Z Master Mowers
1 Specialized SERT Van
1 Toro GM-360 72”Tractor Mower
5 Ford Police Interceptor Utility
4 Ford Escapes
2 Ford Explorers

2018 Goal: Advertise for bid and award contract for the purchase of new vehicles and equipment. This goal has been accomplished. Bids were advised, received, reviewed and contracts awarded for the purchase of the following equipment:

5 Prisoner Transport Vans
1 Front Mount Snow Blower
1 Case Dozer
1 Tractor and Trailer

2018 Goal: In conjunction with the Prosecutor’s Office and Purchasing Department, coordinate two [2] on-line Surplus Auctions for the sale of surplus and confiscated vehicles. This goal has been accomplished. Two [2] successful on-line surplus auctions were held in the spring and 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 ninety nine [99] items were sold.

2018 Goal: Provide Emergency Services – Continue to provide emergency services to all County departments. This goal has been accomplished. Motor Pool employees handled all emergency services including but not limited to: towing, inclement weather and breakdowns.
2018 Goal: Installation of a Propane Station – This goal has been accomplished. The propane station located at the Department of Transportation and Infrastructure [DOT & I] Facility has passed all the required New Jersey State Inspections. The proper training of employees has also been completed. The Propane Station is used for equipment, fork lifts, paving equipment and tarpots.

2018 Goal: Install Diesel Emission Fluid [DEF] Tank – This project has been accomplished. This project was completed in conjunction with the completion and installation of the updated propane station. DEF is a mandated requirement on new trucks.

2018 Goal: Interdepartmental Assistance Program [IAP] – Continue to provide assistance to other departments/divisions. This goal has been accomplished. Motor Pool provided assistance to the following departments/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

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

**Take your Child to Work Day**
Motor Pool staff participated in the annual event.
2019 Goals

**Operating and Capital Budgets** – Complete 2019 Budgets and continue to look for ways to reduce expenses.

**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 and National Intergovernmental Purchasing Alliance [IAP].

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

**Provide Emergency Services** – Continue to provide emergency services to all County Departments.

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

**Education and Training** – Continue to explore training opportunities for employees.
Shade Tree Unit

Administrative Staff
Chris Markley, Superintendent of Public Works
Gene Pucci, Public Works Director
William Voorhees, General Supervisor, Trees
Thomas M. Bigley, Supervisor of Trees

Traffic Maintenance
2 Senior Tree Climbers
3 Tree Climbers
2 Tree Trimmers

Employee Continuing Education
The following training classes were attended by the Shade Tree Unit:
- 93rd 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
Mission Statement
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 roadways.

2018 Accomplishments

Roadside Vegetation Management Program
2018 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 512 gallons mixed, and 12 gallons concentrated of weed killer was applied to Mercer County roadways, servicing 180 linear miles:
– 2018 Goal: Traffic Control Devices Visibility – 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.

– 2018 Goal: Sign Visibility – 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.

– 2018 Goal: Drainage – 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.

– 2018 Goal: Roadside Trees – 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.

– 2018 Goal: Guiderail – Control measures for overgrown vegetation along county maintained guiderail segments. This goal has been accomplished through the enforcement of applying herbicide.

– 2018 Goal: Traffic Control Devices Visibility – 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.

– 2018 Goal: Sign Visibility – 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.
2018 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**: 131, 10” or larger trees that were deceased or storm damaged

**Tree Trimming**: 2,400 trees, providing sight clearance for the safety of the traveling public

**Roadway Clearance**: removed over 325 limbs

**Tree Stumps**: Removed over 36 tree stumps

**New Trees**: Planted 18 trees
2018 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:

- City of Trenton
- Ewing
- Hightstown Borough
- Hopewell Borough
- Hopewell Township
- Pennington Borough
- Robbinsville Township
- West Windsor Township

2018 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
- 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]

2018 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 fifteen [15] days.
2018 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, thirteen [13] milling and resurfacing projects were completed.

2018 Goal: Bridges & Culverts - Provide unit support to Bridges & Culverts. *This goal has been achieved.* 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.

2018 Goal: Snow Removal and Ice Control - Provide assistance to the Road Unit during snow events. *This goal has been achieved.* The Shade Tree Unit provided assistance during fifteen [15] storm events during the 2017-2018 winter season.

*Storm Damage on Yardville-Allentown Road, Hamilton Township*
2018 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.

2018 Goal: Provide maintenance on county-maintained traffic islands located throughout Mercer County. This goal has been accomplished. Mercer County currently maintains seventeen [17] 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]
- Quakerbridge Road and Hughes Drive
- 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

**Other Accomplishments**
In addition to the goals set forth for 2018, 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 creating D-shaped exit holes as seen above. 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, seventy [70] Emerald Ash Borer trees were cut down and removed.

*Top left, adult EAB; top right, larval EAB; lower left, exit holes in tree bark; lower right, damage to cambium layer of tree*
2019 Goals
Shade Tree Unit

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.

Routine Maintenance - Provide sight clearance for traffic signals and intersections on County roadways.

Roadside Vegetation Management Program - Eliminate or control vegetation through a variety of strategies including mowing, brush cutting and use of herbicides.

Milling and Resurfacing Operation - Coordinate 2019 Milling and Resurfacing Projects with the Division of Roads to ensure proper clearance of trees, brush and roadside vegetation.

Bridges & Culverts - Provide unit support to Bridges & Culverts.

Snow Removal and Ice Control - Provide assistance to the Road Unit during snow events.
**Municipal Assistance Program [MAP]** - Provide resources, equipment and labor to local municipalities.

**Interdepartmental Assistance Program [IAP]** – Provide resources to other departments/divisions with the County.

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

**Utility Companies** - Assist Electrical Utility Operations in High Voltage Areas.

**Traffic Islands** - Provide maintenance on the 17 county-maintained traffic islands located throughout Mercer County.

**Training Opportunities** – Continue to explore training opportunities and offerings for employees.
Left, Mercer County Deputy Administrator Aaron T. Watson and right, General Supervisor Paul Scherer activating the new Traffic Signal at the Mercer County Park Entrance at Hughes Drive & Paxson Avenue in Hamilton Township

**Administrative Staff**
Chris Markley, Superintendent of Public Works  
Gene Pucci, Director of Public Works  
Paul Scherer, General Supervisor of Traffic  
Mark Mattaliano, Supervisor of Traffic  
4 Traffic Maintenance Workers  
2 Traffic Signal Electricians
Employee Continuing Education
The following training classes were attended by the Traffic & Signal Unit:

- Back Safety/Material Handling Training
- Commercial Driver’s License [CDL] Controlled Substance and Safety Regulations Training
- Chain Saw Safety Training
- Cardiopulmonary Resuscitation [CPR] Training
- Confined Space Training
- Common Sense Solutions for Intersection Problems
- Defensive Driving
- Fall Protection Training
- Reasonable Suspicion Training for Supervisors - Signs and symptoms awareness
- Roadway and Roadside Drainage
- Shop and Tool Training
- Storm Water Management
- Traffic Control Coordinator
- Work Zone Safety

Supervisory Training
The following training classes were attended by management:

- S3 Supervisor Series
- Supervisory Training Empowering Performance [NJ STEP]
- Techniques for Improving Performance [TIPS]
2018 Accomplishments

2018 Goal: Repair and maintain traffic control devices on County roadways - *This goal has been achieved*. 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. The Traffic & Signal Division is responsible for the installation, maintenance and repair of approximately 200 traffic control devices, including school flashers and pedestrian 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. This year, the following upgrades, improvements and repairs were undertaken:

**Hughes Drive and Paxson Avenue** - Completed the installation of a new traffic signal.

**Cranbury Road and Millstone Road** - Completed the installation of a new traffic signal.

**Clarksville Road and Cranbury Road** - Completed the work necessary to convert the existing temporary traffic signal to a permanent traffic signal installation.

**Edinburg-Dutchneck Road and New Village Road** - In response to increased traffic volume due to the detour of the Old Trenton Road, modifications to the traffic signal phasing and signal heads were made to provide a lead left turn green movement for the west bound approach to the intersection.
Princeton-Hightstown and Slayback Drive  Intersection improvements included the installation of audible latching pedestrian push buttons and increasing the pedestrian clearance time.

2018 Goal: Perform routine maintenance on County maintained traffic signals, flashers and bridge lighting, county-wide - This goal has been achieved. All signal locations are reviewed and inspected on a routine preventative maintenance schedule to verify proper operation.

2018 Goal: Install video detection equipment at various intersections - This goal has been achieved. 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 at the following intersections:
City of Trenton  
- Parkside Avenue and Stuyvesant Avenue

Hamilton Township  
- South Broad Street and Yardville-Hamilton Square Road

Hopewell Borough  
- West Broad Street and Louellen Road

2018 Goal: Replace incandescent halogen bulbs with energy saving LED (Light Emitting Diodes) - This goal have been partially achieved. 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.

LED Upgrades on Signal Mast Arm

2018 Goal: Respond to emergency service calls. This goal has been achieved. 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.
2018 Goal: Replace guide, regulatory and warning signs to meet FHWA retro-reflectivity standards – This goal has been achieved. The Traffic & Signal Division replaced signs and installed break-away sign posts along County roadways when they were resurfaced. The following roadway segments were completed this year:

**County Route 518**
- Lambertville-Hopewell Road, from Harbourton-Rocktown Road to Marshalls Corner-Woodsville Road.
- Lambertville-Hopewell Road, from Pennington Road to Stony Brook Road.
- Lambertville-Hopewell Road, from Vandyke Road to West Broad Street.

**County Route 524**
- Yardville-Allentown Road from, Carlisle Avenue to Town Line.

**County Route 608**
- Lawrence Station Road, from Quakerbridge Road to Chief James Smith Drive.

**County Route 611**
- Scotch Road, from Parkway Avenue to Upper Ferry Road.
- Scotch Road, from Sam Weinroth Road to Nursery Road.

**County Route 612**
- Marshalls Corner-Woodsville Road, Town Line to Pennington-Hopewell Road.
**County Route 618**
- Nottingham Way, from the Whitehorse-Mercerville Road to Mercer Street.

**County Route 623**
- Pennington-Harbourton Road, from Bear Tavern Road to Pennington Road.

**County Route 630**
- Perrineville Road, from Old York Road to Imlaystown Road.

- Imlaystown Road, from Perrineville Road to Town Line

**County Route 631**
- Ingleside Avenue, from Washington Crossing-Pennington Road to South Main Street.

**County Route 633**
- Monmouth Street, from NJ Route 33 to North Main Street.

**County Route 634**
- West Upper Ferry Road, from River Road to Bear Tavern Road.

**County Route 640**
- South Main Street, from Ingleside Avenue to West Delaware Avenue.

**County Route 653**
- Calhoun Street, from Bellevue Avenue to Southard Street.

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**2018 Goal:** Install thermoplastic intersection pavement markings on selected county roadways.

*This goal has been achieved.* Thermoplastic traffic markings were applied at the following intersections.

**City of Trenton**
- Cass Street and Hancock Street
East Windsor Township
- North Main Street and Town Center Road
- Monmouth Street and NJ 33
- Old York Road and Airport Road
- Old Trenton Road and Millstone Road

Ewing Township
- Lower Ferry Road @ Fisher School
- Lower Ferry Road and Sullivan Way
- Spruce Street and Arctic Parkway
- Spruce Street and Parkside Avenue
- Spruce Street and Prospect Street
- West Upper Ferry Road and Hinkle Avenue

Hamilton Township
- Arena Drive and Woodside Avenue
- Church Street @ Groveville Day Care Facility
- East State Street Extension and Nottingham Way
- East State Street Extension @ Our Lady of Sorrows School
- Edinburg Road and Flock Road
- Edinburg Road and Marshall Avenue
- Edinburg Road and McAdoo Avenue
- Edinburg Road and Stamford Road

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“Do Not Block the Box” upgrade at South Broad Street & Coleridge Avenue in Hamilton Township
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**Hightstown Borough**
- Monmouth Street and Broad Street
- Monmouth Street and Cranbury Station Road
- Monmouth Street and Maxwell Avenue
- Monmouth Street and Manlove Avenue
- North Main Street and Bank Street
- North Main Street and Chamberlin Avenue
- North Main Street and Mill Run
- North Main Street and Monmouth Street
- North Main Street and Sunset Avenue
- North Main Street and Van Rensaller Avenue
- North Main Street and William Street
- North Main Street and Wilson Avenue
- North Main Street and Wyckoff Mills Road
- South Main Street and Joseph Street
- South Main Street and Ward Avenue
- Stockton Street and Academy Street
- Stockton Street and Center Street
- Stockton Street and Harron Avenue
- Stockton Street and Joseph Street
- Stockton Street and Oak Lane
- Stockton Street and Park Way
- Stockton Street and Rogers Avenue
- Stockton Street and Summit Street

**Hopewell Township**
- West Broad Street and Louellen Road
- Bear Tavern Road and Jacobs Creek Road
Lawrence Township
– Lawrenceville-Pennington Road and Federal City Road

Pennington Borough
North Main Street and East Franklin Street
South Main Street and Academy Avenue
South Main Street and Brookside Avenue
South Main Street and Curlis Avenue
South Main Street and Ingleside Avenue
South Main Street Parking Stalls

Parking Stall installations in Pennington Borough
**Princeton**
- Harrison Street @ D& R. Canal Tow Path

**Robbinsville Township**
- Robbinsville-Edinburg Road @ Robbinsville High School
- Robbinsville-Edinburg Road and Union Street

**West Windsor Township**
- Clarksville Road and Penn Lyle Road
- Cranbury Road & Millstone Road

**2018 Goal: Lettering of new vehicles** - *This goal has been achieved.* The Traffic & Signal Division provided the lettering for all new fleet vehicles and equipment for the County.

**2018 Goal: Coordinate roadway closures** - *This goal has been achieved.* The Traffic & Signal Division designed traffic control plans for three [3] tree removal projects, four [4] bridge repair projects and thirteen [13] 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.
2018 Goal: Assist in the snow removal operation - This goal has been achieved. The Traffic & Signal Division provided assistance to the Road Division during fifteen [15] 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.

2018 Goal: Provide Interdepartmental Assistance to other departments/divisions - This goal has been achieved. This year, the Traffic & Signal Division provided the following assistance:

Central Maintenance
– Provided the aerial platform lift truck for overhead lighting repair at several county facilities.
**Mercer County McDade Administration Building**
- Design and fabrication of office door labels.
- Provided portable light towers at the McDade Administration Building during Mercer County Board of Chosen Freeholder meetings.
- Layout and striping of new parking lot.

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

**Mercer County Department of Transportation & Infrastructure**
- Acclimated accessible Americans with Disability Act [ADA] parking stall requirements for facility.

**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 April, June, and September at the Dempster Fire Training Center.
- Provided variable message sign Electronic Recycling and Shredding Event held in February and November.

*MCDOT ADA Parking Lot Accessibility*
Mercer County Park Commission
- Provided variable message boards and portable light towers for several events at Mercer County Parks.

Mercer County Courthouse
- Installed Stop Bar indications at gate security zone

Mercer County Sheriff’s Office
- Design, fabrication and installation of interior labels and exterior signage for Sheriff’s offices.
- Provide traffic control devices during water main break in the Courthouse vicinity.

Trenton-Mercer Airport
- Provided variable message board for Emergency Drill notification

2018 Goal: Participate in the Municipal Assistance Program [MAP] - This goal has been achieved. The Municipal Assistance Program provides resources, labor and equipment to local municipalities. This year, the following municipalities requested service:

Ewing Township
- Variable Message Sign for residential noise reduction enforcement.

Municipalities of Princeton
- Variable Message Sign for speed limit reduction notification.
Pennington Borough
- East Franklin Street and Eglantine Avenue pavement marking installation

2018 Goal: Participate in Shared Services - This goal has been achieved. 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”

“Lawrence Township Independence Day Fireworks Display”
- [100] Traffic Cones

“Lawrence Township Bike Rodeo”
- [200] Traffic Cones
“Lawrence Township Kids Triathlon”
  - [200] Traffic Cones

“Menorah Lighting at the State House”
  - [1] 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”

“Special Olympics”

“Steinert High School Athletic Event”
  - [4] Portable Light Trailers

“TCNJ Graduation”
  - [2] Variable Message Signs

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2019 Goals

Upgrade traffic control devices on County roadways - The Traffic & Signal Division proposes to maintain safe travel for residents of Mercer County with continued upgrades and positive maintenance of signage and signalized intersections.
Perform routine maintenance on County maintained traffic signals, flashers and bridge lighting, county-wide - Perform routine maintenance of signage on county roadways, replacing as needed.

Install video detection equipment at various intersections - Video detection will be installed at intersections that are impacted as a result of milling and resurfacing operations.

Replace incandescent halogen bulbs with energy saving LED [Light Emitting Diodes] - As a cost savings effort; continue replacement on various traffic signals, county-wide.

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

Replace guide, regulatory and warning signs to meet Federal Highway Administration [FHWA] retro-reflectivity standards – Replace signs and install break-away sign posts as County roadways are resurfaced.

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

Provide lettering of new vehicles - Provide lettering of all new fleet vehicles for the county.

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.

Train staff - Continue to provide training opportunities to Traffic personnel.

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.
Provide Interdepartmental Assistance Program [IAP] - Continue to provide Interdepartmental Assistance to other departments/divisions.

Participate in the Municipal Assistance Program [MAP] - Continue to provide assistance to local municipalities.

Participate in Shared Services - Continue to provide services to local municipalities, police and fire departments and local organizations.
TRADE Transportation
[Transportation Resources to Aid the Disadvantaged and Elderly]

Administrative Staff
Martin DeNero, Director
Junior Spence, Program Coordinator
Angela Termen, Supervising Clerk
Julio Silva, Principal Clerk
Debra Mizzell, Senior Clerk
Jaqueline Harrison, Senior Clerk
Christina Raspataello, Clerk
Ayn Jackson, Radio Dispatcher

Motor Vehicle Operators
26 Motor Vehicle Operators

Employee Continuing Education
The following training classes were attended by TRADE:

Junior Spence, Program Coordinator, attended the NJ Supervisor Training Empowering Performance, one day a week for seven weeks course.

Junior Spence, Program Coordinator, Julio Silva, Principal Clerk and Christina Raspataello, Clerk attended a Business Writing Seminar.
Mission Statement
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.

2018 Goals

2018 Goal: Continue to Upgrade Scheduling Software and Implement Other Technologies – This goal is in the process and will continue into 2019. The software contractor for TRADE’s Dispatch and Scheduling Software is Trapeze Software Group/TripSpark. The software upgrade scheduled for 2018 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. These reports are used for submission of required electronic reports to New Jersey Transit [NJT] and the Mercer County Office on Aging. The final stage of testing is in process. Following that testing, Trapeze Software will schedule on-site training [2 days] of TRADE staff and the software will go live.

2018 Accomplishments

The Department of Transportation and Infrastructure [DOT & I] and TRADE Transportation developed goals for 2018, which provided a framework for action during the year. In the first section of this report for TRADE, the goals for 2018 are listed, along with information about TRADE’s accomplishments in meeting these goals. Other accomplishments from 2018 are also listed. The second section documents TRADE’s goals for 2019.
2018 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 2019. Specifically, NJ transit requires that the Plan be updated every five [5] years and the Coalition will accomplish this in 2018.

Members of the Coalition have been working cooperatively to complete the Plan update by the end of December 2018. Demographics and census maps have been produced. A Stakeholder meeting was held on November 14, 2018 to update and finalize 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 during 2019. 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.

2018 Goal: Complete Project for Interagency Coordination for Long-Distance Human Service Transportation – This goal has not been accomplished and will continue into 2019. TRADE was unable to coordinate with Hunterdon County staff, but interest in a possible arrangement still exists. This goal will be continued in 2019.
2018 Goal: Complete planning project sponsored by NJ Transit to improve efficiency and possibly make revisions to services offered by TRADE. *This goal has not been achieved.* 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 a service 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.

2018 Goal: Continue efforts to locate grant funding for vehicle replacements to reduce use of County Capital grant funds – *This goal has been accomplished.* During 2018 TRADE obtained seven [7] replacement vehicles through the Federal Transit Administration [FTA] Section 5310 Program, administered by NJ Transit.

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

Revenue Changes

Sports Betting
The U.S. Supreme Court ruled this year 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 not be realized to County Transportation Programs until 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 generally remained flat the past two years.
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.

Vehicle Advertising
Interstate Outdoor Media, LLC provides advertising revenue through posting ads on TRADE vehicles. The revenue has increased the past year at a total of approximately $15,000. The contract extension with the vendor was approved by the Board of Freeholders in September 2018.

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 as demand continues to grow.
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 City Senior Centers on a rotating schedule, without impacting TRADE’s regular services. During 2018, the City of Trenton staff has had success in utilizing these services offered to them by TRADE every two weeks.

TRADE cooperated with Office on Aging to assist with transportation to a Nutrition Center that was temporarily relocated due to facility problems. The new site was finally established in Princeton.

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. 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.
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.
- Senior Picnics in Hopewell and Hamilton.
- Annual “Take Your Child to Work Day”, shuttling to Trenton-Mercer Airport.
- 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 100-year Anniversary of the 4H Fair.

**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 Township].
- 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 during 2018 and they will continue in 2019.
2019 Goals

2019 Goal: Continue to Upgrade Scheduling Software and Implement Other Technologies - Following the software upgrade scheduled for the December 2018 TRADE will work with our vendor [TripSpark] to 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.

2019 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. 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.

2019 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.
2019 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.

2019 Goal: Vehicle Advertising - Continue to make use of a Contractor for vehicle advertising. The contract with Interstate Outdoor Advertising expires in 2019 and a bid process will be conducted.

Motor Pool Mechanics
Left: Mark A. White
Right: Carmen C. Gee
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.

Joseph Budd retired December 31, 2018 after 27 years.
Timothy Fisher retired July 31, 2018 after 28 years.
Edward Lovett retired November 30, 2018 after 37 years.
James Karlovich retired August 31, 2018 after 30 years.
Donald Kintzel retired December 31, 2018 after 22 years.
Richard Kopczynski retired December 31, 2018 after 17 years.
Theodore LaEzza retired October 31, 2018 after 17 years.
James Lawrence retired December 31, 2018 after 19 years.
David Lawson retired April 30, 2018 after 29 years.
Mitchell Lis retired August 31, 2018 after 34 years.
Edward Lovett retired December 31, 2018 after 38 years.
Paul Mantuano retired June 30, 2018 after 30 years.
Joseph McClendon retired May 31, 2018 after 27 years.
Melvin Moreland retired May 31, 2018 after 31 years.
Albert Rhodes retired July 31, 2018 after 44 years.
Gregory Sandusky retired April 30, 2018 after 24 years.
Angela Termen retired December 31, 2018 after 26 years.
# Staff Directory

## Office of the Deputy Administrator
*McDade Administration Building*
640 South Broad Street
Trenton, NJ 08650-0068

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aaron T. Watson, Deputy Administrator</td>
<td>[609] 989-6629</td>
</tr>
<tr>
<td>Michele DeBlois, Confidential Secretary</td>
<td>[609] 989-6629</td>
</tr>
</tbody>
</table>

### Trenton-Mercer Airport
340 Scotch Road, Suite 200
Ewing, NJ 08628

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melinda Montgomery, A.A.E., Airport Manager</td>
<td>[609] 882-1601, ext. 101</td>
</tr>
<tr>
<td>Dale Carman, A.A.E., Assistant Airport Manager</td>
<td>[609] 882-1601, ext. 102</td>
</tr>
<tr>
<td>Keith Herzstein, Confidential Assistant</td>
<td>[609] 882-1601, ext. 106</td>
</tr>
<tr>
<td>Nilda Garcia, Administrative Analyst</td>
<td>[609] 882-1601, ext. 109</td>
</tr>
<tr>
<td>Susan Celentano, Principal Word Processing Operator</td>
<td>[609] 882-1601, ext. 107</td>
</tr>
<tr>
<td>Leticia Hernandez, Account Clerk</td>
<td>[609] 882-1601, ext. 103</td>
</tr>
<tr>
<td>John Walczak, Clerk Typist</td>
<td>[609] 882-1601, ext. 114</td>
</tr>
<tr>
<td>Edward Berry, Airport Operations &amp; Safety Officer [Training]</td>
<td>[609] 882-3145</td>
</tr>
<tr>
<td>David Washington, Airport Operations &amp; Safety Officer</td>
<td>[609] 306-5854, ext. 112</td>
</tr>
<tr>
<td>Donald Kintzel, Airport Operations &amp; Safety Officer</td>
<td>[609] 882-3145</td>
</tr>
<tr>
<td>Matthew Parker, Airport Operations &amp; Safety Officer</td>
<td>[609] 882-1601, ext. 111</td>
</tr>
<tr>
<td>Joseph DiDonato, Road Supervisor 1</td>
<td>[609] 882-3127</td>
</tr>
<tr>
<td>Kurt Neinstedt, Airport Maintenance Supervisor</td>
<td>[609] 882-3127</td>
</tr>
</tbody>
</table>

## Buildings & Grounds
*McDade Administration Building*
640 South Broad Street
Trenton, NJ 08650-0068

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karl S. Thomas, General Supervisor of Trades</td>
<td>[609] 989-6181</td>
</tr>
<tr>
<td>Joseph Termen, Program Monitor</td>
<td>[609] 281-7174</td>
</tr>
</tbody>
</table>

### DOT & I Facility, 300 Scotch Road, Building #1, West Trenton, NJ 08628

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter Berkin, Supervisor of Trades</td>
<td>[609] 530-7506</td>
</tr>
<tr>
<td>Brittany Stevenson, Clerk Typist</td>
<td>[609] 530-7500, ext. 122</td>
</tr>
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</table>

### Court House, 175 South Broad Street, Trenton, NJ 08608

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
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</thead>
<tbody>
<tr>
<td>Theodore LaEzza, Supervising Maintenance Repairer</td>
<td>[609] 558-7027</td>
</tr>
</tbody>
</table>

### Mercer County Correction Center, 175 River Road, Lambertville, NJ 08560

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Chiaramonti, Maintenance Supervisor</td>
<td>[609] 583-3545, ext. 2260</td>
</tr>
<tr>
<td>Thomas Marlatt, Sewage Plant Operator</td>
<td>[609] 397-4385</td>
</tr>
</tbody>
</table>

**Fax:** [609] 984-9013
# Staff Directory

## Engineering

*McDade Administration Building*
*640 South Broad Street*
*Trenton, NJ 08650-0068*

<table>
<thead>
<tr>
<th>Name</th>
<th>Main: [609] 989-6600</th>
</tr>
</thead>
<tbody>
<tr>
<td>George A. Fallat, P.E., County Engineer</td>
<td></td>
</tr>
<tr>
<td>Michele Rizziello, Confidential Secretary</td>
<td>[609] 989-6600</td>
</tr>
<tr>
<td>Symone Seldon, Analyst Trainee</td>
<td>[609] 989-6642</td>
</tr>
<tr>
<td>Basit [Sunny] Muzaffar, P.E., Assistant County Engineer</td>
<td>[609] 989-6641</td>
</tr>
<tr>
<td>Yueming, Li, P.E., Principal Engineer</td>
<td>[609] 989-6606</td>
</tr>
<tr>
<td>Jeffrey L’Amoreaux, P.E., Principal Engineer, Traffic</td>
<td>[609] 989-6541</td>
</tr>
<tr>
<td>Eric Lips, Principal Engineer, Bridges</td>
<td>[609] 989-6648</td>
</tr>
<tr>
<td>Joseph Vena, P.E., Senior Engineer, Bridges</td>
<td>[609] 281-7220</td>
</tr>
<tr>
<td>David Kramer, Principal Engineering Aide</td>
<td>[609] 989-6605</td>
</tr>
<tr>
<td><strong>Fax:</strong> [609] 989-8295</td>
<td></td>
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</table>

## Highways

*DOT & I Facility*
*300 Scotch Road, Building 1*
*West Trenton, NJ 08628*

<table>
<thead>
<tr>
<th>Name</th>
<th>Main: [609] 530-7500, ext. 107</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chris Markley, Superintendent of Public Works</td>
<td>[609] 530-7500, ext. 107</td>
</tr>
<tr>
<td>Gene Pucci, Director of Public Works</td>
<td>[609] 530-7500, ext. 104</td>
</tr>
<tr>
<td>Jodi Hawryluk, Administrative Clerk</td>
<td>[609] 530-7525</td>
</tr>
<tr>
<td>Irene Szymelewicz, Payroll Supervisor</td>
<td>[609] 530-7500, ext. 130</td>
</tr>
<tr>
<td>Marcie Kintzel, Clerk 3</td>
<td>[609] 530-7500, ext. 102</td>
</tr>
<tr>
<td>Ariel Steward, Clerk 2</td>
<td>[609] 530-7500, ext. 105</td>
</tr>
<tr>
<td>Luigi Corsaro, GIS Specialist</td>
<td>[609] 530-7500, ext. 101</td>
</tr>
<tr>
<td><strong>Fax:</strong> [609] 530-8956</td>
<td></td>
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</table>

## Bridges & Culverts

<table>
<thead>
<tr>
<th>Name</th>
<th>Main: [609] 530-7500, ext. 103</th>
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<tbody>
<tr>
<td>Richard L. Baker, III, Supervising Bridge Repairer</td>
<td>[609] 530-7500, ext. 103</td>
</tr>
<tr>
<td>Nicholas F. Longo, Supervising Bridge Repairer</td>
<td>[609] 530-7500, ext. 103</td>
</tr>
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</table>

## Mosquito Control

<table>
<thead>
<tr>
<th>Name</th>
<th>Main: [609] 530-7500, ext.125</th>
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<tbody>
<tr>
<td>Nicholas Indelicato, Supervising Mosquito Extermination</td>
<td>[609] 530-7500, ext.125</td>
</tr>
<tr>
<td>Mike Milewski, Supervising Mosquito Extermination</td>
<td>[609] 530-7500, ext.125</td>
</tr>
<tr>
<td><strong>Fax:</strong> [609] 530-7529</td>
<td></td>
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## Motor Pool

<table>
<thead>
<tr>
<th>Name</th>
<th>Main: [609] 530-7525</th>
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<tbody>
<tr>
<td>Vince Russo, General Supervisor Garage Service 1</td>
<td>[609] 530-7525</td>
</tr>
<tr>
<td>Edward Kaczor, Supervising Mechanic II</td>
<td>[609] 560-7526</td>
</tr>
<tr>
<td><strong>Fax:</strong> [609] 538-8379</td>
<td></td>
</tr>
</tbody>
</table>
# Staff Directory

## Shade Tree
- Bill Voorhees, General Supervisor of Trees [609] 530-7500, ext.106
- Thomas M. Bigley, Supervisor of Trees [609] 530-7500, ext.106

## Traffic & Signal
- Paul Scherer, General Supervisor of Traffic Maintenance [609] 530-7500, ext.109
- Mark Mattaliano, Supervisor of Traffic Maintenance [609] 530-7500, ext.155

## T.R.A.D.E. [Transportation Resources to Aid the Elderly and Disadvantaged]
**DOT & I Facility**
*300 Scotch Road, Building 1*
*West Trenton, NJ 08628*
- Marty DeNero, Director of TRADE Transportation [609] 530-1970
- Junior Spence, Program Coordinator [609] 530-1971, ext. 116
- Angela Termen, Supervising Clerk Typist [609] 530-1971, ext. 111
- Ayn Jackson, Radio Dispatcher [609] 530-1971, ext. 113
- Julio Silva, Clerk 3 [609] 530-1971, ext. 112
- Debra Mizzell, Clerk 2 [609] 530-1971, ext. 118
- Jacqueline Harrison, Clerk 2 [609] 530-1971, ext. 112
- Christina Raspazzelio, Clerk 1 [609] 530-1971, ext. 114

**Fax:** [609] 530-7517
Appendix of Acronyms

AAAE – American Association of Airport Executives
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
CDC - Center for Disease Control
CDL – Commercial Driver’s License
CCTV – Closed Circuit Television
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
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>ESCC</td>
<td>Emergency Services Communications Center</td>
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<tr>
<td>FAA</td>
<td>Federal Aviation Administration</td>
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<tr>
<td>FAR</td>
<td>Federal Airport Regulation</td>
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<tr>
<td>FBI</td>
<td>Federal Bureau of Investigation</td>
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<tr>
<td>FBO</td>
<td>Fixed Base Operator</td>
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<tr>
<td>FCC</td>
<td>Federal Communications Commission</td>
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<td>FEMA</td>
<td>Federal Emergency Management Agency</td>
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<td>FHA</td>
<td>Federal Highway Administration</td>
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<td>FTA</td>
<td>Federal Transit Administration</td>
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<tr>
<td>GIS</td>
<td>Geographic Information System</td>
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<td>GMHPH</td>
<td>Greater Mercer Public Health Partnership</td>
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<td>GMTMA</td>
<td>Greater Mercer Transportation Management Authority</td>
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<td>GPR</td>
<td>Ground Penetrating Radar</td>
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<td>GPS</td>
<td>Global Positioning System</td>
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<td>HMPG</td>
<td>Hazard Mitigation Grant Program</td>
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<td>HSIP</td>
<td>Highway Safety Improvement Program</td>
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<td>HVAC</td>
<td>Heating Ventilating Air Conditioning</td>
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<td>IAP</td>
<td>Interdepartmental Assistance Program</td>
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<tr>
<td>LCMS</td>
<td>Laser Crack Measuring System</td>
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<td>LED</td>
<td>Light Emitting Diode</td>
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<tr>
<td>LEO</td>
<td>Law Enforcement Officer</td>
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<tr>
<td>LHT</td>
<td>Lawrence Hopewell Trail</td>
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<tr>
<td>LIFT</td>
<td>Let’s Investigate Flying Together</td>
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<tr>
<td>MAGTUG</td>
<td>Mid-Atlantic Geospatial Transportation Users Group</td>
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<tr>
<td>MAP</td>
<td>Municipal Assistance Program</td>
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<tr>
<td>MCCC</td>
<td>Mercer County Community College</td>
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<td>MCIA</td>
<td>Mercer County Improvement Authority</td>
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<td>MCMC</td>
<td>Mercer County Mosquito Control</td>
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<tr>
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<td>Mercer County Sheriff’s Officers</td>
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<tr>
<td>MP</td>
<td>Mile Posts</td>
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<tr>
<td>NAWC</td>
<td>Naval Air Warfare Center</td>
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<td>Northeast Chapter</td>
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<td>NHS</td>
<td>National Highway System</td>
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<td>NJAA</td>
<td>New Jersey Airport Association</td>
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<td>NJDEP</td>
<td>New Jersey Department of Environmental Protection</td>
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<td>NJDOT</td>
<td>New Jersey Department of Transportation</td>
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<td>NJMA</td>
<td>New Jersey Mosquito Association</td>
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<tr>
<td>NJOEM</td>
<td>New Jersey Office of Emergency Management</td>
</tr>
<tr>
<td>NJOGIS</td>
<td>New Jersey Office of Geographic Information Systems</td>
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</tbody>
</table>
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