



MEMORANDUM

To: Mr. Michael Muscillo, Borough Administrator

From: Thomas P. Neff, P.E., P.P., C.M.E., Borough Engineer

Re: March 2017 – Engineering Report

State Projects:

Garden State Parkway Interchange 105 Improvements – The Phase 1 segment of the project is complete with the new traffic patterns in operation as of late May 2015. Phase 2 of the project consists of a new GSP southbound local lane exit onto Wayside Road approximately opposite Stavbro Lane. In addition to the exit and traffic signal onto Wayside Road, the Turnpike Authority proposed significant intersection improvements at Wayside Road and Pine Brook Road. The Turnpike Authority awarded a \$20.1M contract to Earle Asphalt Company and the work is currently underway. The contractor has now completed the installation of new traffic signals at the intersection of Pine Brook Road and Wayside Road, curb and sidewalk improvements, and surface course paving.

A new traffic signal at the intersection of the new exit ramp and Wayside Road was activated on February 1, 2017. The signal was activated to allow for detoured traffic coming off of Parkway Local southbound lanes to access Route 36 north while the existing ramp is realigned. It is anticipated that this work will take approximately 60-90 days to complete. The substantial completion date for the entire project is June 19, 2018; however, the contractor anticipates all work to be complete by June 2017.

County Projects:

Intersection Improvements at Asbury Avenue & Foxchase Drive/Cannonball Drive – The project consists of minor roadway widening at the intersection to provide dedicated left hand turn lanes and left hand turn signals on each leg of the intersection to facilitate improved movements at the intersection. The County awarded a contract to Vision Construction Group and construction is now substantially complete. The new traffic signal was activated on January 9, 2017. The Contractor will return in the Spring to complete the asphalt walkway along Asbury Avenue and final site restoration.

Borough Projects:

Roadway

2016 Road Program – A contract was awarded to Stavola Construction Co. on August 9, 2016 for the 2016 Road Improvement Program. Work consists mainly of pavement reconstruction and concrete curbs and ADA ramps where necessary. The roads included with this program are:

- Pine Street – Received \$250,000 NJDOT Municipal Aid Grant
- Hamilton Street (Pinebrook Road to Stavbro Lane)
- Surrey Lane
- Acorn Drive
- Tracy Place
- Chestnut Court
- Apple Orchard Drive
- Department of Public Works Complex



All work at Hamilton Street, Surrey Lane, Acorn Drive, Tracy Place, Chestnut Court, Apple Orchard Drive, and the DPW Complex is substantially complete. All concrete work on Pine Street has been completed. Milling and paving of Pine Street will be completed first thing in the Spring of 2017.

Infrastructure

Riveredge Road and Woodland Manor Pump Station Upgrades – A contract was awarded to T.R. Wenigar Inc, of Piscataway, NJ at the December 12, 2015 Council Meeting for necessary upgrades to the two sanitary sewer pump stations. All work is now complete. We are in the process of closing out the contract with the Contractor.

Borough Wide Infrastructure Mapping – The current sanitary and storm sewer mapping was prepared and last updated in 1995. Over the last 20 years, the Borough has experienced significant development growth, especially in the 'South End'. We are in the process of mapping sanitary and storm sewer infrastructure using Geographic Information System (GIS) standards and equipment. This process will digitize the Borough infrastructure asset for use by DPW, Planning and Zoning, and Construction Departments. The information will be available to field personnel on mobile devices to facilitate the use of dynamic mapping tools and geospatial locating of structures. We are coordinating our deliverable for incorporation into the Borough's GovPilot program. We are currently completing Phase II of the field data collection.

Water Street Sanitary Sewer Improvements – The Borough does not currently have any sanitary sewer infrastructure in Water Street between Tinton Avenue and Marissa Lane. There are a number of homes in this area currently serviced by private septic systems. Toll Brothers recently installed a new 8" PVC sanitary sewer main down an emergency access road toward Water Street as part of the Regency at Trotter's Pointe development. We are in the process of finalizing plans and specifications for the installation of a new sanitary sewer main in Water Street to provide public sewer service for five houses. Construction is anticipated to begin in Summer 2017.

Parmly Road Outfall Repairs – An existing stormwater outfall has collapsed and caused a large void in the slope. Our office has prepared construction plans for the replacement of this outfall and the stabilization of the slope. We received NJDEP Wetlands and Flood Hazard Area permit approvals on January 23, 2017. We are now in the process of finalizing the plans and specifications for bidding. Construction is anticipated to begin in the summer of 2017.

Tinton Avenue Pump Station Force Main Evaluation – The Borough requested T&M to conduct an analysis and evaluation of the pump station and associated force main to determine possible causes for three force main breaks over the last four years. We have completed a number of tests and measurements and believe that the failures are related to trapped air and column separation. Our final report, including recommended upgrades to address the issues, was submitted to the Borough on August 10, 2016. The recommended improvements will be considered for implementation in 2017.

TNSA – The 2016 Customer Report was submitted to TNSA on February 3, 2017. We will continue to work with TNSA on obtaining additional reserve capacity and various other matters as previously discussed with Council and Borough Staff.

TRWRA – We continue to communicate with TRWRA regarding development at Fort Monmouth and the impacts that development will have on the sanitary sewer system.

Fort Monmouth Redevelopment – We have been meeting with FMERA regularly to review the infrastructure needs to support the redevelopment efforts.

Parks & Recreation

2015 Park Improvement Program – A contract was awarded to Precise Construction on May 9, 2016 for improvements to Hance Park and Hockhockson Park. Improvements consist of new basketball courts, asphalt walkways, ADA upgrades and parking lot improvements. All work at both parks is now substantially complete



and the parks are open for public use. The contractor will return in Spring 2017 to complete minor punch list repairs.

Grant Applications

T&M continues to work on identifying applicable grant funding opportunities on Federal, State and Local levels and linking those grants to various capital projects or programs in the Borough.

Grant Opportunity	Amount Requested	Status
NJDOT – Local Aid FY 2017, Hope Road	\$679,500	Pending
Monmouth County CDBG – FY 2017	\$200,000	Denied
NJDOT – Local Aid FY 2016, Pine Street	\$486,000	Awarded: \$250,000
NJDOT – Local Aid FY 2015, Green Grove Rd	\$400,000	Denied
NJDOT – Local Aid FY 2014, Corregidor Road	\$375,000	Awarded \$250,000
Monmouth County CDBG – Library Addition	±\$185,000	Awarded: ±75,000
Monmouth County Open Space Program	Up to \$250,000	Awarded: \$250,000
NJDOT – Local Aid FY 2012, Heritage Blvd – Ph II	\$491,000	Awarded: \$225,000
New Jersey Department of Transportation – Local Aid FY 2010	\$320,401	Awarded: \$200,000

Completed Projects:

- Hance Avenue and Heritage Boulevard Pump Stations Emergency Generator Replacement
- 2015 Road Program
- 2015 Borough Tax Map Updates
- 2015 Borough Map Updates
- 2014 Road Program
- Asbury Avenue & Pine Street/Essex Road Intersection Improvements by Monmouth County
- Asbury Avenue Resurfacing by Monmouth County
- Hockhockson Road Bridge Replacement by Monmouth County
- IT Server Room Upgrades
- Sanitary Sewer Pump Station Upgrades @ Jumping Brook Road & Hance Avenue
- 2013 Road & Sidewalk Program
- West Park Avenue Sewer Rehabilitation & Roadway Resurfacing
- Open Space List Reconciliation & Recording
- Municipal Complex Water Meter Installation
- Third Party Electric Supplier
- 2012 Road Program
- Apple Street & Old Farm Road Improvements
- 2010 Tax Map Updates
- 2010 Road Program
- Crawford House Accessibility Improvements
- Monmouth County Reclamation Center Leachate Discharge Evaluation
- 2010 Borough Mapping Updates
- Green Grove Road Sewer Lateral Installations
- Monmouth County Resurfacing of Shafto Road and Newman Springs Road
- Energy Efficiency Conservation Block Grant & Direct Install Programs 2010 & 2011
- Sycamore Avenue Drainage Improvements at Homestead Parkway East