



Nassau County Engineering Services  
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*Interim County Engineer*

## **ENGINEERING SERVICES**

### **Accomplishments FY 18/19**

#### Engineering Services Accomplishments (FY18-19)

1. Coordinated and completed Capital Improvement Projects funded by Nassau County and the Florida Department of Transportation (FDOT).
  - Completed the Resurfacing of the S. 14<sup>th</sup> Street resurfacing SCRAP project.
  - Complete the design, advertised for bid, and awarded the construction contract for the resurfacing and widening of Old Dixie Highway (CR115) from Bypass Road to Henry Smith Road in Callahan.
  - Completed the design of improvements for the Crawford Road Reconstruction project from CR121 to US 301.
  - Coordinated environmental permitting for Crawford Road.
  - Completed coordination with Norfolk Southern for a Temporary Construction Easement (TCE) or Right of Entry (ROE) to build Crawford Road.
  - Completed construction of the LAP certified Bailey & Simmons Road trail project
  - Coordinated the design of the LAP certified CR108 roadway safety improvements project. Final design expected November 2019.
  - Facilitated SCOP, SCRAP and TRIP agreements with FDOT for FY 18-19 and Requested new projects.
  - Prepared the CIP for engineering's 5-year Capital Improvement plan.
  - Coordinated the design for Pages Dairy and Chester Road project including approval of MOU with JEA for water main design. Conducted community meetings to discuss project timing.
  - Completed the resurfacing improvements to Chester Road
  - Acquired the ROW and coordinated design for the Miner Road turn lane. Design completion estimated for December 2019. Construction to begin in coordination with FDOT schedule in Spring 2020.
2. Completed construction and closed out the grant for the Thomas Creek Phase IX restoration project.
3. Received ACOE PAS funding and began work on the comprehensive study of the Thomas Creek Watershed.
4. Requested funding for HSIP off System Safety Improvements.
5. Issued permits and conducted inspections for driveways, sidewalks, right of way improvements, borrow pits, and residential development to ensure construction meets the requirements of County ordinances in a timely manner.

- Reviewed plans submitted to the Development Review Committee (DRC) for conformance with County ordinances in a timely manner.
  - Reviewed applications to the building department in regard to easement access determinations for residences.
  - Performed Construction Engineering Inspection (CEI) services for DRC approved subdivisions or phases of subdivision projects. (i.e. Timber Lakes, Lumber Creek, Heron Isles, Blackrock Park, Amelia Concourse, Woodbridge, Plummer Creek, Three Rivers, Wildlight, etc.)
  - Reviewed and inspected approximately 1500 driveway/sidewalk permits.
  - Reviewed and inspected approximately 205 utility permits and approximately 38 borrow pit permits.
6. Provided Traffic Operations Services and Maintenance to ensure that motorists and pedestrians are traversing the safest and most efficient roadway network possible.
- Addressed SR 200 signal timing issues with consulting engineers and FDOT.
  - Provided maintenance to 28 traffic signals and 27 associated assemblies, flashers, etc.
  - Performed investigations in support of requests for roadway safety audits, changes in posted speed limits, special signage, golf cart designations, etc.
  - Continued to provide FDOT coordination and support during construction to ensure that constructed signals and other features are compliant with requirements and the goals of the County.
  - Continued to expand the County's Integrated Traffic Signal (ITS) footprint and continued working with the FDOT and TPO to implement an Adaptive Traffic Control System for the second and third construction phases of SR200.
  - Improved server hosting and backup capabilities of the Automated Traffic Management System with a transition to a virtual server.
  - Executed a software maintenance agreement with Trafficware for the Automated Traffic Maintenance Server and upgrade its software from Version 1.X to Version 2.X.
  - Replaced/upgraded traffic fiber running from the James Page building server room to the communications cabinet on SR 200 to prepare for new SyncroGreen and Sunguide systems that will be available at the completion of SR200 construction.
7. Bridge Maintenance Plan.
- Corrected deficiencies at the Bridges; as reported by the Florida Department of Transportation (FDOT).
  - Created Bid documents for the jackets contract for the Stratton and the Stokes Bridges.
  - Continued to monitor the bridges determined by the FDOT to be scour critical or unknown foundations.
  - Continued to systematically address maintenance issues at the other 36 bridges in the County which are inspected biannually by FDOT. We will use FDOT's bridge maintenance contract for bridges, to repair or replace piles at 3 bridges; and Road and Bridge will clear vegetation at five bridges.
8. Provided engineering support services as needed in support of other departments:
- Damage assessment and other essential functions in relation the County's Emergency Management Plan.
  - Assisted Road Department with Pavement Management Plan criteria and Chip Seal Specifications.

9. Conducted ordinance and policy reviews and recommended updates to:

- Ordinance 99-17 – Roadway and Drainage Standards driveway, easement, and lot grading regulations
- Assisted in creation of a County Traffic Impact Analysis
- Created Nassau County Speed Hump Policy
- Assisted in inspection and review fee updates
- Assisted in the update to the Mobility Fee Study, by creating the project ranking criteria for proposed Mobility projects.