



Georgia Department of Transportation

# FY2018 - Year in Review

**Meg Pirkle, P.E.**  
**Chief Engineer**



*Courtland Street Bridge Replacement - Atlanta*



*SR 225 & Mt. Carmel Church Road - Murray County*

# FY2018 – Year in Review

- **Engineering Services**
- **Division of Construction**
  - Construction
  - Materials
  - Bidding Administration
- **Division of Intermodal**
- **Division of Engineering**
  - Roadway Design
  - Bridge Design & Maintenance
  - Right-of-Way
  - Design Policy & Support
  - Environmental Service
- **Division of Program Delivery**
  - Program Delivery
  - Program Control
- **Division of Permits & Operations**
  - State Maintenance
  - State Utilities
  - Transportation Data
  - Office of Traffic Operations
- **Division of P3**

# FY2018 – Year in Review

## Office of Engineering Services

- Environmental Compliance
  - Developed Certification Course for Maintenance Erosion Control Supervisor (MECS)
    - Will Become Mandatory Certification
- Design Review
  - Implemented Interim Field Plan Reviews (IFPR)
    - Fills Review Gap and Supports Accountability
  - Initiated Independent Quantity Calculations for Resurfacing Projects
  - 235 Field Plan Reviews
  - 161 Maintenance Final Plan Reviews
  - Reviewed 83 Corrected Plans from Final Field Plan Review

# FY2018 – Year in Review

## Office of Engineering Services

- Value Engineering (VE)
  - Nine VE Studies Held
  - Six VE Studies Implemented - \$41,874,764 in Calculated Implementation Savings
  - FY18 Return On Investment = \$157 per \$1 spent
- Estimating
  - Completed 280 Cost Estimates for Projects Advertised for Letting
  - Improving Programmed Construction Cost Estimates
    - Two New Engineer Positions Approved – One Filled
    - Presentation to ACEC Georgia, Program Delivery, & Roadway Design
    - Developed “How To” Guides
    - Estimators Providing More Assistance With Item Pricing
    - Email Account Created for Design Phase Leaders to Ask for Help

# FY2018 – Year in Review

## Division of Construction

### Office of Construction, Office of Materials, and Bidding Administration

- Let 296 projects to contract for a value of \$1,128,036,874
- 301 projects opened to traffic with a contract value of \$1,366,765,933
- Processed 704 Supplemental Agreements with a total value of \$87,112,270
  - Equals 1.54% of Active Contract Value
- Held Project Engineers Academy
- Implementation of e-Construction
- Held the 3<sup>rd</sup> Annual GTPC Workshop

# FY2018 – Year in Review

## Division of Intermodal

- Completed Brunswick & Savannah Entrance Harbor Dredging
- Received FTA State Safety Oversight (SSO) Program Certification
- 114 Transit Contracts transitioned to electronic execution
- Created & Implemented GDOT Unmanned Aircraft Systems (UAS) Policy for Drone Operations
- Conducted 1,568 Airspace Evaluations for FAA



*Brunswick Channel Dredging*



*FTA State Safety Oversight of Fixed  
Guideway Rail*



*Drone Inspecting Sidney Lanier  
Bridge after Hurricane Irma*

# FY2018 – Year in Review

## Division of Intermodal

Funding	Transit	Aviation	Rail	Total
Federal	\$35.6 M	\$55.9 M	-	\$91.5M
State	\$1.4 M	\$40.0 M	\$8.5M	\$49.9 M
Local	\$17.8 M	\$17.3 M	-	\$35.1
<b>Total</b>	<b>\$54.8 M</b>	<b>\$113.2 M</b>	<b>\$8.5 M</b>	<b>\$176.5 M</b>

<b>Contracts Executed</b>	<b>114</b>	<b>90</b>	<b>8</b>	<b>212</b>
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# **FY2018 – Year in Review**

## **Division of Engineering**

**Hiral Patel, P.E.**

**Division Director**

- Roadway Design
- Bridge Design & Maintenance
- Right-of-Way
- Design Policy & Support
- Environmental Service

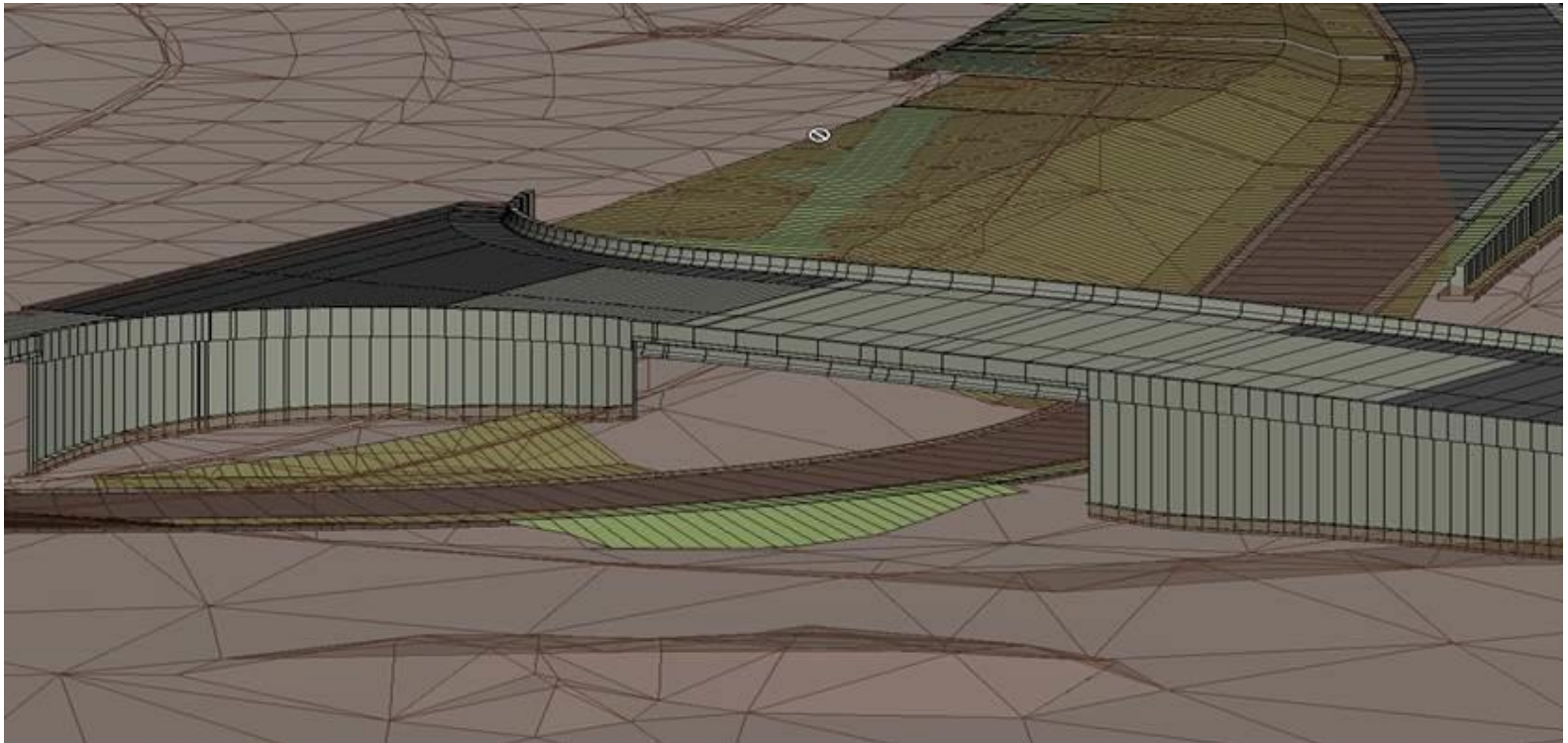


# FY2018 – Year in Review

## Division of Engineering

### Roadway Design

- Graduated the first 3 Engineers from **R.A.P.I.D.**  
Roadway **A**ccelerated **P**rogram for **I**ndividual **D**evelopment
- Launched 3D Modeling Initiative- effective 01/2019



## GDOT in-house Design project: GPTQ Grand Prize Award



GA 400 @ SR 53 Continuous Flow Intersection reduces conflict points and allows more “green time” at the intersection by removing the SR 400 northbound/southbound left turn phase from the main SR 400/SR 53 intersection.

# FY2018 – Year in Review

## Division of Engineering

### Roadway Design

- Concept Reports: 9 Concept Reports
- Preliminary Plans: 10 Preliminary Plan Sets
- Right of Way Plans: 5 ROW Plan Sets
  - \$19.5M Authorized for ROW
- Final Plans: 9 Final Plan Sets
  - \* \$36.3M Authorized for Construction

# FY2018 – Year in Review

## Division of Engineering

### Bridge Design & Maintenance

- Low Impact Bridge Program (LIBP)
  - Can now obtain easements for construction
- State-Funded Local Bridge Program
  - Allows GDOT to follow streamlined LIBP process for replacing off-system bridges



# FY2018 – Year in Review

## Division of Engineering

### Bridge Design & Maintenance

- Performed 8,888 bridge inspections
- Let bridge replacement projects totaling: \$277,674,524
- Let bridge rehabilitation/preservation projects totaling: \$42,611,847
- Six Engineers Passed PE Exam
- Protecting Big Brown Bats
  - I-75 over New Town Road, Gordon County
  - Colony of 3,000 to 5,000 Big Brown Bats
  - Preservation work includes Polymer Overlay and Joint Replacement
  - Coordination between FHWA, FWS and GaDNR



# **FY2018 – Year in Review**

## **Division of Engineering**

### **Office of Right-Of-Way (ROW)**

- Authorized \$280M in ROW phase
- Acquired 1034 parcels
- Assisted locals with the federal ROW process and reimbursed \$11.24M
- Developed Consultant Training Courses
- Allow more flexibility with reimbursing Local Sponsors with their reimbursable expenditures

# **FY2018 – Year in Review**

## **Division of Engineering**

### **Design Policy & Support**

- 408 MOU with USACE - early approval of real estate out grants
- EPA field inspection of MS4 program
- Roundabout Lighting research
- 153 project concept reports approved

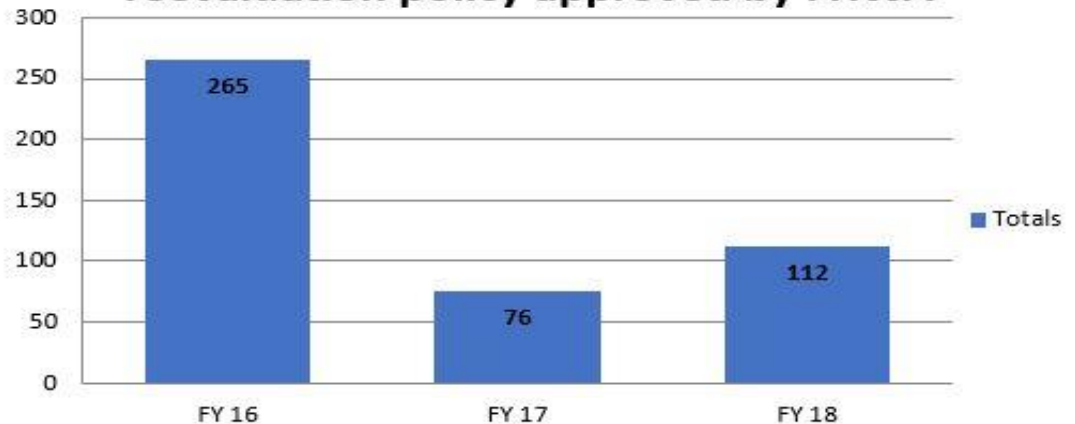
# FY2018 – Year in Review

## Division of Engineering

### Environmental Services

- Delivered 541 Approved Environmental Documents
- New NEPA Reevaluation Policy
  - Approved Late July 2016
  - FY 18 First Full Year of Use

**FY reevaluations/reduction after new reevaluation policy approved by FHWA**



Less reevaluations in FY 17 due to the execution date of the policy and 25% increase in workload in FY 18

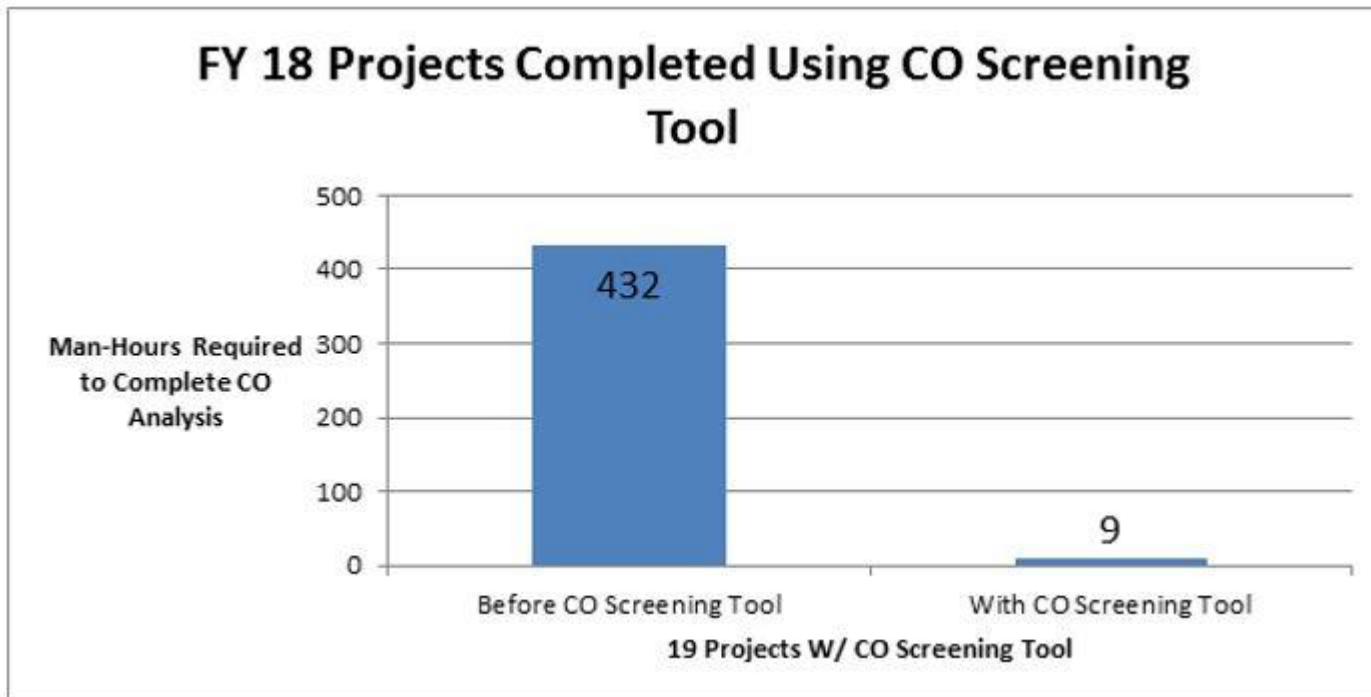


# FY2018 – Year in Review

## Division of Engineering

### Environmental Services

- Air/Noise-Carbon Monoxide (CO) Screening Tool
  - Approved by FHWA and GDOT on April 6, 2017



# **FY2018 – Year in Review**

## **Division of Program Delivery**

**Albert Shelby**

**Division Director**

- Program Delivery
- Program Control

# **FY2018 – Year in Review**

## **Division of Program Delivery**

### **Office of Program Delivery (OPD) and Office of Program Control (OPC)**

- **The Division of Program Delivery had the following Strategic Goals for FY 2018**
  - Letting Projects on Schedule
  - Eliminating Process Inefficiencies
  - Public Involvement Upgrades
  - Risk Management
  - Knowledge Retention

# FY2018 – Year in Review

## Division of Program Delivery

### Office of Program Delivery (OPD) and Office of Program Control (OPC)

- **Letting Projects on Schedule**
  - For FY18, OPC monitored the lettings for 340 projects totaling **\$1.55B** (272 GDOT Let Projects worth \$ 1.39 B & 68 Local Let Projects worth \$159 M)
  - Began Interim Field Plan Reviews for larger projects in FY 2018
  - For FY 2018, OPC processed 84 new schedules through Schedule Review Meetings, with 20 Approved, 57 Approved with Modifications, and 4 Rejected
- **Eliminating Process Inefficiencies**
  - Project Change Request Forms (PCRFs) – Schedule Revisions
    - OPD generated 49 schedule revisions in FY 2018
    - OPC processed 49 schedule revisions in FY 2018 - 12 returned/rejected; 37 approved
  - Let Status Reviews and ROW Status Reviews ongoing

# FY2018 – Year in Review

## Division of Program Delivery

### Office of Program Delivery (OPD) and Office of Program Control (OPC)

- **Public Involvement Upgrades**
  - OPD published the Public Information Resource Library (P.I.R.L.) June 2018
  - Began pilot scopes for Virtual Public Information Open Houses (PIOHs)
  - Standardization of PIOH displays with a checklist
- **Risk Management**
  - Updated the Consultant Acquisition List 8 times in FY 2018 to add or delete opportunities
  - Began using the Government Estimators to create PTIP packages in FY 2018
  - Participated in modifying the "CRAFT" tool to a "Risks and Mitigation" tool being developed by Georgia Tech as a research project
  - Participated in the creation of the ACEC task forces for Practical Design and Cost Estimating

# FY2018 – Year in Review

## Division of Program Delivery

### Office of Program Delivery (OPD) and Office of Program Control (OPC)

- **Knowledge Retention**
  - OPD & OPC participated in the ASCE Peer Review
  - OPC facilitated a LAP Stakeholder Partnering PEER Exchange with GA, Florida, Virginia, South Carolina, Tennessee & Alabama. This was the first time that GDOT hosted this event
  - Published updated federal local government agreements to reflect new federal policies
  - 13 newsletters were published in FY 2018 that go to internal and external entities for new policies, procedures, etc.
  - OPC convened the committee to update the Plan Development Process with various policies August 2017
  - OPD published an updated "OPD Handbook" in November 2017
  - OPD published the "District Program Manager" handbook as a guide for consistency March 2018

# **FY2018 – Year in Review**

## **Division of Permits & Operations**

**John Hibbard, P.E.**  
**Division Director**

- State Maintenance
- State Utilities
- Transportation Data
- Office of Traffic Operations

# **FY2018 – Year in Review**

## **Division of Permits & Operations**

### **Office of Maintenance**

- Delivered \$28 Million in FY 2018 for striping and RPM placement on State Routes and Interstates using district striping contracts
- Started automated data collection of roadway conditions
- Responded to five winter weather events and one tropical storm with a Statewide Emergency Declaration
- Started second year of Maintenance Rating Program to support District decisions on asset management

### **State Utilities**

- Conducted the inaugural Statewide Shortline RR Outreach meeting
- Processed over 9,700 permit submittals statewide with an average turnaround of 5.4 days
- Worked with OPD and ROW to implement enhancements to the Utility Coordination Process



# FY2018 – Year in Review

## Division of Permits & Operations

### Office of Transportation Data

- Setting a new national standard for traffic counting contracting
  - Invited to present the process and experience to two major conferences
- Creating a new, more accurate, and innovative methodology for determining AADT on low-volume rural roads
  - Invited to present the methodology to a major national conference and a federally sponsored peer exchange
- Exceeding the expected/legislatively mandated county map production by over 15%, while increasing the accuracy and legibility

# **FY2018 – Year in Review**

## **Division of Permits & Operations**

### **Office of Traffic Operations**

- Meeting the SPaT Challenge;
  - 54 signals – on Ponce de Leon and Peachtree, 12 ramp meters – on downtown Connector
- Georgia Permitting Application System (GPAS)
- Downtown Atlanta Event Management
  - Using our signal technology and partnering with multiple local agencies, Traffic ops took a lead role in managing a multitude of special events in and around the Ga. World Congress Center and Mercedes Benz Stadium

# FY2018 – Year in Review

## Division of P3

**Joe Carpenter, P.E.**  
Division Director

- Office of Innovative Delivery

# FY2018 – Year in Review

## Division of P3

### Office of Innovative Delivery

- Delivered first three MMIP projects early
  - I-85 Widening
    - Successful groundbreaking on July 25
    - Progressed with development and review of early Release for Construction plans
  - 16@95 Improvement Projects
    - Savannah Mobility Contractors JV (SMC) selected as developer
    - SMC's price proposal well under the engineer's estimate
      - Best value score: 942/1000
      - Price proposal: \$260.52 million (engineer's estimate: \$295 million)
- SR 400 Express Lanes
  - INFRA Grant - Georgia received \$184 million Infrastructure for Rebuilding America (INFRA) grant
  - BRT Funds - State allocated \$100 million in bonds for bus rapid transit (BRT) on SR 400

# FY2018 – Year in Review

## Division of P3

### Office of Innovative Delivery

- Design-Build Projects Moving Smoothly
  - Courtland Street Bridge: Closed 5/7/18; 50% complete (as of 7/30/18)
  - I-20 at Savannah River Bridge: Issuance of the RFP to shortlisted proposers
  - I-85 Corridor Bridges: Closures started to provide greater public safety, improve mobility to bridges, and allow for the future widening of I-85 through the MMIP

# FY2018 – Year in Review

## Questions?

