To: Darrell Locklear, Assistant County Administrator
Through: Neal Shinkre, Public Works Director
From: Press Tompkins, County Engineer
Subject: Project Updates through May 22, 2015
Date: May 22, 2015

Capacity Projects

CR 210/I-95 Interchange Improvements (Phase II) (Non-bond)

Phase Status: Construction 75%
Current Phase Funded: Construction
Consultant: Eisman Russo, Prosser
Contractor: Petticoat Schmitt Civil Contractors
Project Manager: Mike Adams

Project Scope: Widening of CR 210 to accommodate dual lefts and dual through lanes and ultimate six-lane traffic.
Project Status: Currently transitioning into Phase 3 bridge construction with an early fall completion date for the roadway work anticipated.
Capacity Projects

**Dobbs Road/Kings Estates Road Intersection Improvements (Non-bond)**

Phase Status: Construction 60%
Current Phase Funded: Construction
Consultant: Arcadis
Contractor: Petticoat Schmitt Civil Contractors
Project Manager: Mike Adams

Project Scope: The existing intersection of Kings Road and Kings Estate Road is located approximately 150 feet east of the intersection of Dobbs Road and Kings Estate Road. Both Dobbs Road and Kings Road generate significant traffic. Dobbs Road connects to SR 207 and serves an industrial area along its frontage. Kings Road is the sole access to an extensive residential area. The alignment of Kings Road with Dobbs Road to form a single four-way intersection at 90 degrees will provide for immediate traffic safety and operational improvements, along with the features necessary for a traffic signal when warranted.

Project Status: Currently working on Phase 5 and on schedule.

**Silver Creek CDBG Improvements (Non-bond)**

Phase Status: Construction 70%
Current Phase Funded: Construction
Consultant: Matthews Design Group
Contractor: V.J. Usina
Project Manager: Nick Perpich

Project Scope: Silver Creek is a proposed assisted living facility that will be accessed from Aquarius Drive; a currently undeveloped private road. CDBG funds may be available for the construction of the entrance road to the project. The entrance road will be owned by the county but maintained through a developer agreement by the developer. Improvements would consist of a right turn lane off of SR 207, county standard roadway and sidewalks approximately 530 feet long, water, sewer and electric extensions from SR 207.

Project Status: Construction is ongoing. Utility installation is the major work item for the next couple of months. Getting power to the site will delay completing the project. We anticipate the project being completed in the fall.
Capacity Projects

**SR 16/Inman Road Intersection Improvements (Non-bond)**

Phase Status: Design 90%
Current Phase Funded: Design, Construction
Consultant: Matthews Design Group
Contractor: not applicable at this time
Project Manager: Douglas Tarbox

Project Scope: This project is a result of an Impact Fee Agreement between St. Johns County and St. Augustine Associates, Inc. The County is responsible for design and construction with funds provided in accordance with the agreement. The project consists of a traffic signal at SR 16 and Inman Road; the extension of the westbound right turn lane onto Inman Road and a southbound left turn lane into Harvest Lane with the capability of providing for U-turn movements. FDOT has performed a Traffic Warrant Study at this intersection and the traffic signal is warranted.

Project Status: Property and easement acquisition is underway. Comments from FDOT are being addressed to finalize plans.

**West King Street Segment 1 (Bond)**

Phase Status: Design 60%
Current Phase Funded: Permitting, Final Design
Consultant: Jones Edmunds, Prosser
Contractor: Not applicable
Project Manager: Nick Perpich

Project Scope: Design update and construction of Holmes Blvd. and West King St. Intersection including a possible pond site, new traffic signal, improved drainage and additional turn lanes. Project limits are along Holmes Blvd. from Butler Ave to West King St. Extension. Also along West King St. from Holmes Blvd. to Hurst St.

Project Status: Design and Permitting are ongoing. When constructed the intersection will have turn lanes and a new traffic signal. The County has recently reviewed the 60% design plans. 100% plans will be submitted this summer.
Capacity Projects

**Woodlawn Road Realignment (Non-bond)**

Phase Status: Design 90%
Current Phase Funded:  Design
Consultant: Matthews Design Group
Project Manager: Douglas Tarbox
Project Scope: Realign Woodlawn Road along the East/West segment from the proposed T intersection modification to near Lewis Speedway. To be designed and constructed in phases.
Project Status: Clearing plan for utility relocates in process, and DR Horton agreement is being worked on by legal. Plan coordination between the PBS&J and Matthews is underway.

**Safety Projects**

**Countywide Sidewalk Projects (Non-bond)**

Current Phase Funded:  Construction
Consultant: Not applicable
Contractor: Varies
Project Manager: Greg Caldwell, Nick Perpich
Project Scope: Work shall include repair and replacement of existing sidewalks, as well as installation of new sidewalks.
Project Status: We recently received the final users manual for the sidewalk priority program. We are developing a priority list and have requested prices from our Continuing Contractor.

**SR 5 (US 1) & Health Park Blvd. (HMGP) (Non-bond)**

Phase Status: Construction 05%
Current Phase Funded:  Construction
Consultant: Arcadis
Contractor: Hinson Electric
Project Manager: Brian Kelsay, Greg Caldwell
Project Scope: The existing condition at this intersection is a strain pole signal that is out of code and cannot withstand the wind load during storm events. The project is to replace this strain pole with a mast arm design that can survive more severe storms.
Project Status: The contracts have been executed and the pre-construction meeting has taken place. The contractor is in the production phase of the project.
Safety Projects

Traffic Calming Program (Non-bond)

Current Phase Funded: Study
Contractor: Not applicable
Project Manager: Andrew Ames

Project Scope: Traffic studies will be performed on the basis of a "Petition to Study" signed by a clear majority of all affected residents in a given neighborhood. Each candidate street will be studied and ranked according to traffic conditions and point system established in the policy and procedure manual.

Project Status: Neck Road study: complete.
Johns Creek: Ballots returned by residents are being tallied and evaluated.
Kensington: Processing estimate from Prime Consultant.

Drainage Projects

Countywide Stormwater Model (Non-bond)

Phase Status: Study 80%
Current Phase Funded: Design, Permitting, Land Acquisition
Consultant: Jones Edmunds
Contractor: Not Applicable
Project Manager: Douglas Tarbox

Project Scope: Implementing the recommendations of the Ayres study to proceed to the next phase by adopting a uniform stormwater model and to proceed with producing models for each sub-basin to determine the extent of improvements to relieve flooding and storm duration. This will be an overall county wide endeavor and will take several years to complete.

Project Status: • North Augustine Regional Model
Kickoff meeting completed, currently developing subbasins and project DTM
• Sixmile Creek Regional Model
Kickoff meeting completed, currently developing subbasins and project DTM
• Moses and Moultrie Regional Model
Phases 1A and 1B complete.
Phase 1C-2C underway. Incorporating survey data into model.
• Ponte Vedra Regional Model
Model parameterization nearing completion.
• West Central Regional Model
Incorporating survey data into model.
• Regional Model Implementation
Draft data standards document to be reviewed with SJRWMD. Stakeholder presentation in for review
• FEMA CTP
Completed and uploaded data to FEMA for the Data Discovery, Survey Data Development, and Acquire Base Map tasks. Finalizing data upload for Topographic Data Development and Independent Topographic QC.
Hydrology and Hydraulics QC complete. Floodplain deliverable development underway.
**Countywide TMDLS - Stormwater Quality Drainage Improvements (Non-bond)**

Phase Status: Original Study 65%

Current Phase Funded: Original Study

Consultant: varies

Contractor: varies

Project Manager: Douglas Tarbox

**Project Scope:** Stormwater quality drainage improvements in the County's storm drainage system and in outfalls to waterways will be installed to reduce the discharge of pollutants. Effective July 2008, the county will be required to begin projects that will help meet the pollution allocations of the Total Maximum Daily Load (TMDL) program for the lower St. John's River Basin.

**Project Status:**

* Countywide RST Feasibility Study – Complete
* BMAP progress report for Year I - III – Complete
* Deep Creek West RST Preliminary Engineering – Met with SJRWMD and discussed conceptual modifications. Need to establish baseline conditions before finalizing upgrades. Received data to establish baseline conditions on 7/2/12. The improvements consist modification of:
  - Stormwater Intake and Forebay
  - Pump Station
  - Wet-Detention Pond
  - Constructed Wetland
* NPDES permit assistance – draft report provided for County review and submittal to FDEP
* TMDL Time and Materials Assistance – continuing with as-needed assistance
* County-wide pollutant loading model and cost forecast – Complete
* DO TMDL assistance – EPA and FDEP agreed to County preparing a model of Six Mile Creek for TMDL development. Currently preparing that model (two models working together – HSPF and WASP) for EPA/FDEP review.
* Water quality monitoring and Stream Condition Index – completed previous monitoring task orders. This task order will continue monitoring at select sites through 2012 and will include benthic sampling on six potentially impaired waterbodies for calculation of the Stream Condition Index (SCI) using FDEP methods.
Drainage Projects

**CR 13 Culvert Replacement (Non-bond)**

Phase Status: Design 90%, Permitting 50%, Construction 70%

Current Phase Funded: Design, Permitting

Consultant: Arcadis

Contractor: A W A Contracting, Constantine Construction

Project Manager: Douglas Tarbox

Project Scope: Culvert repair, replacement and extension along CR 13 for drainage improvements.

Project Status: Work is underway on culverts 23, 30, and 31

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**Masters Tract (Non-bond)**

Phase Status: Construction Phase I 98%, Construction Phase II 5%

Current Phase Funded: Construction Phase I, Construction Phase II

Consultant: Jones Edmunds & Assoc.

Contractor: Preferred Materials

Project Manager: Brian Kelsay, Greg Caldwell

Project Scope: Design and Construction of the regional storm water treatment facility.

Project Status: The Surety Company has contracted with Preferred Materials to complete the base bid portion of the project (Phase I). The Contractor is on site and making progress. Project is scheduled to be complete in the first quarter of 2015. Currently working on Bid Documents for Phase II.
Mitigation Plan (Non-bond)

Current Phase Funded: Permitting, Land Acquisition

Consultant: SJC Real Estate Team

Project Manager: Ryan Mauch

Project Scope: Provide needed wetland mitigation for St. Johns County transportation projects.

Project Status: In Basin 5, the Turnbull Creek ROMA has a balance of 155 FGUs for District and Corps permitting. Units H and I (50 acres) were burned in August 2014 on the SE corner of the site, east of Turnbull Creek. Units J and K (150 acres) in the north central area were burned successfully in October 2014. The WMD and ACOE have reviewed year 5 monitoring reports and the ROMA is meeting all the permit success criteria. Fencing installation is to occur by April 2015 by a contractor.

In Basin 8, the Deep Creek ROMA provides 23 FGUs for District and Corps permitting. The Masters Tract Regional Stormwater pond is currently under construction and is being managed by Engineering staff. Upon completion of the wetland cells, the plantings will be managed by a contractor and overseen by SJC Environmental staff. Pine thinning is scheduled to begin at the Tatum Tract in Mid 2015 by Carter Environmental Services in compliance with the MOA and ACOE permit. The Armstrong Trailhead park impacts to wetlands was able to utilize the first credits of this ROMA for the ACOE and SJRWMD.

In Basin 9, the Moses Creek ROMA has a balance of 40 FGUs. ACOE and SJRWMD mitigation plans and permits are currently held by the County. The MOA and conservation easement is to be recorded in April 2015. Once mitigation activities including timbering, exotic species removal, prescribed burning and culvert installation are initiated, the County can start using the balance of FGUs in Basin 9. The mitigation plan for this ROMA is scheduled to be initiated in 2015.

All ROMAs will be monitored by staff to ensure long term goals are met with continued maintenance for invasive/exotic species, prescribed burning and other maintenance issues within the ROMA properties.

WEST AUGUSTINE CDBG (Non-bond)

Consultant: Matthews Design Group, Fox & Associates

Project Manager: Brian Kelsay

Project Scope: Apply for a CDB Grant and use funds to improve paving and stormwater in West Augustine area.

Project Status: Preparing to take 1st Public Hearing, and Fair Housing workshop authorization before the BCC
**Countywide Safety (Non-bond)**

Phase Status: Construction 100%

Current Phase Funded: Design, Permitting, Construction

Consultant: SJC Traffic & Transportation

Contractor: SJC Traffic & Transportation, Engineering Pavement Management

Project Manager: Andrew Ames

Project Scope: Provides for a rapid and flexible response to safety issues as they arise. Roadway safety issues that arise during the year are addressed on an "as-needed" basis. Work may include repair and replacement of guardrail.

Project Status: T-ops is working on an estimate for three 10-road groups previously paved and painted. A number of these roads require striping and will be prioritized to reduce the night time crashes.

**Countywide Stormwater (Non-bond)**

Current Phase Funded: Design, Permitting, Construction

Consultant: Not Applicable

Contractor: Not Applicable

Project Manager: Greg Caldwell

Project Scope: Provides for a rapid and flexible response to drainage issues on an as-needed basis.

Project Status: All scheduled emergency pipe replacements have been completed.

**Deep Creek West RST Improvements (Non-bond)**

Phase Status: Construction 10%, Study 10%

Current Phase Funded: Permitting, Preliminary Engineering, Study

Consultant: Jones Edmunds

Contractor: Turnbull Environmental Inc.

Project Manager: Douglas Tarbox

Project Scope: The Deep Creek West Regional Stormwater Treatment Facility was designed and constructed by the District to achieve cost-effective nutrient reductions to Deep Creek and the lower St. Johns River. St. Johns County is responsible for operating and maintaining this facility in exchange for a pro-rated share of nutrient reductions in the lower St. Johns River Basin Management Action Plan (Resolution 2010-199). The County has identified potential improvements that could optimize the nutrient removal achieved at the facility and is taking the lead in design of the improvements and partially funding construction in return for the additional nutrient reduction credits created. The SJRWMD is contributing $500,000 to the project.

Project Status: Pond excavation continues and pumps are still scheduled for delivery in June
**Administration/Engineering Study Projects**

**Armstrong Park Trailhead (Non-bond)**

Phase Status: Design 100%, Permitting 99%

Current Phase Funded: Design, Permitting

Consultant: Ayres & Associates

Contractor: not applicable at this time

Project Manager: Nick Perpich

Project Scope: Park improvements and trail construction to Rail-to-Trail. This project will be funded by a FDOT LAP Grant.

Project Status: Design is complete. We are awaiting our permit from St. Johns County Development Review. Project will be bid out for Construction in fall or winter 2015 when FDOT funding is available.

**National Pollutant Discharge Elimination System (Non-bond)**

Current Phase Funded: Permit Implementation

Consultant: Jones Edmunds and Associates, Watershed Protection Program

Contractor: Not Applicable

Project Manager: Jay Kamys, Ryan Mauch

Project Scope: Implementation of the NPDES permit program.

Project Status: Compilation of data for the Yr 2 Formal report for calendar year 2014: Jones Edmunds (JEA) continuing compilation of support data, draft due for our review by JEA June 1, 2015.

The JEA agreement for the next period is executed.

The 9 month extension of the current contract with Natural Resources Management Services (NRMS) for our Watershed Protection Program is complete.

Education outreach including Storm Drain Markings and Earth Day events at Grumman continue. Our participation at the St. Johns County Schools has resumed with events scheduled before year end and during the summer.
**Administration/Engineering Study Projects**

**Parker Canal RST (Non-bond)**
- **Current Phase Funded:** Study
- **Consultant:** Jones Edmunds & Associates
- **Contractor:** Not applicable at this time
- **Project Manager:** Greg Caldwell

**Project Scope:** This project is a preliminary investigation to determine project feasibility for reduction of nitrogen and phosphorous loadings to the LSJR and help optimize the nutrient pollution controls needed to reduce nuisance algal blooms.

**Project Status:** The County and the Water Management District are reviewing the project and discussing the next phase.

**West King Street Sewer Line (Non-bond)**
- **Phase Status:** Design 100%
- **Current Phase Funded:** Construction
- **Project Manager:** Nick Perpich

**Project Scope:** Installation of a 200 foot long sewer line on St Johns Street at West King Street Intersection. Funded by developer and City of St Augustine.

**Project Status:** Additional funds for construction were recently approved. We are currently having some verification survey performed and Calloway Contracting is the anticipated builder. Construction start is contingent upon property purchase by the developer.