



Infrastructure Group

DeKalb County, Georgia

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TO: Chief Executive Officer Burrell Ellis
Board of Commissioners

FROM: Ted Rhinehart, Deputy COO/Infrastructure
Joe Basista, Director, Watershed Management

DATE: 5 February 2013

SUBJ: Update on Watershed 2010-2014 Capital Improvements Program

The following is the status of the County's water and wastewater capital improvements plan, as adopted in December 2010, discussed by Wastewater plant, Sewer collection system, Water plant, and Water system components (with CIP Line numbers referenced in parentheses).

Wastewater plants

- Board of Commissioners approved the low bidder, Desmar Systems, Inc. for \$7,685,264.00 on May 22, 2012 for *Snappfinger Wastewater Treatment Plant Phase I* construction. Notice to Proceed was issued and Preconstruction meeting was held on July 29, 2012. A public meeting was held on August 29, 2012 at Wesley Chapel Library to update the neighborhood. Site Clearing and grubbing is complete. Grading and retaining wall construction is underway. **Rock blasting is scheduled to start in February and anticipated completion is July 2013.** Construction management of this first phase of construction, which includes primarily clearing, grading and site preparation work, will be provided by Jacobs Engineering under their on-call engineering services contract with Watershed Management. (Line 52)
- An RFP for the Construction Management services for the *phase 2 Snappfinger Plant bid*, which is the majority of the plant replacement work, including new headworks, and new primary and secondary treatment facilities. Project advertised 9/13/12 and Proposals received November 13, 2012. **Under RFP Evaluation Committee review.** (Line 51)
- *Pole Bridge Wastewater Plant rehabilitation* is under way with an **Aeration Basin joint repair project was completed by Sol Construction for \$309,500 in December 2012. Notice of Proceed was issued on November 29, 2012 for Phase 1 emergency electrical system repairs and expected to be completed in May 2013. Flood Study for the Pole Bridge site is underway by AMEC Engineering. Safety upgrade study/design is being performed by Prime Engineering. Grit System evaluation and Chemical piping design are performed by Brown & Caldwell.** (Line 54)

Sewer collection system

- We received proposals on the RFP for the EPA/EPD *Consent Decree program management services* on June 18, 2012. The engineering services under this contract are anticipated to manage the key sewer collection system CMOM, modeling, rehabilitation, enhanced FOG program and enhanced maintenance programs for four years of the 8.5 year consent decree term (Lines 22, 37, 38, 40, 41, 42, 43, 44, 45, 46). **RFP Evaluation is complete and a recommendation will be presented to the BOC in the next BOC meeting.**

- The *Lower Crooked Creek lift station rehabilitation and force main replacement* project was awarded on November 8, 2011 by the Board of Commissioners, and the contractor, Gary's Grading, Inc, received their Notice to Proceed from Purchasing on February 9, 2012. This construction contract of \$5,176,540 came in well under the \$7.5 million budgeted for this project in the Recovery Zone Bond funds that were issued in 2010. (potentially leaving some funds available towards the Stonecrest Area relief sewer project, which was the other project funded by Recovery Zone Bonds in 2010). Lower Crooked Creek pump station construction is 95% complete and associated gravity pipe line work is 100% complete and force main work is 60% complete. Substantial completion is estimated in May 2013. (Line 61)
- The *Stonecrest Area relief sewer project* will be bid by Purchasing and Contracting in 3 separate bid packages: two lift station upgrades and the force main and gravity sewer pipeline installations. Plans and specifications have been delivered to Purchasing to advertise. (Line 63)
- The Construction Management RFP scope of work for the Stonecrest Area relief sewer project has also been delivered to Purchasing. **This Project has been advertised and proposals are due on March 20, 2013.** (Line 63)
- The *Dunwoody petition sewer project*, to allow about 20 homes in a Dunwoody neighborhood to convert from septic tank treatment to the sewer system, is under construction by Rockdale Pipeline, for a contract of \$228,000. A Town hall meeting was held on August 28, 2012 **Construction started on January 28, 2013.** (Line 73)
- The pipe bursting project in the *Embry Circle* area is also under construction. This project upsize an existing sewer which experienced SSO's in recent years, and was discussed with the EPA and EPD as one of the less-common capacity-related sewer rehabilitation projects known to be needed in the DeKalb sewer collection system. This project was completed by Inland Waters in October 2012. (Line 37)
- Plans and permits are completed on another pipe bursting project planned for the *Superior Avenue* area, also as a result of an evaluation of that sewer system after a capacity-related SSO a couple of years ago. All necessary easements are acquired except on two properties. Those two condemnations were approved by BOC on 9/11/12. **All easements acquired. Project flyers have been distributed and a public meeting is scheduled for February 13, 2013 with a budget of about \$1,000,000.** (Line 37)
- Bids were opened on April 24, 2012, for the *Harmony Hills lift station* improvements project. Recommendation for All South Constructors, Inc., the low bidder for this project, for the amount of \$130,924.00 was delivered to Purchasing on June 15, 2012. Revised recommendation from P&C for 2nd low bidder Willow Construction (\$153,400) received in September 2012. BOC approved the low bid on November 13, 2012. (Line 47)
- Proposals have been received and evaluated for the RFP for Sewer system mapping. This important set of 3 contracts will complete the GIS mapping of the precise location of the sewer pipes and manholes in the remaining third of the system that has not yet had location maps updated in precise GIS x, y and z coordinates. \$15 million was budgeted in the CIP to complete this work over the next two years, on schedule with the EPA/EPD Consent Decree, in support of the system modeling, capacity assurance, rehabilitation and CMOM programs. The Board approved these three awards on November 13, 2012. (Line 48)
- The pipecams purchase was completed in 2011, for \$60,000 (Line 39).
- Lift station radio/SCADA upgrades were completed for \$560,214. (Line 35)

- The first 3 basins of sewer modeling, out of 32 sewer basins in the County, was completed by MWH Americans engineering, in late 2011, at a final contract amount of \$665,494. Modeling of the remaining 29 basins will be completed by the EPA/EPD Consent Decree program management team as a scope item in that contract; completion of the sewer system modeling is expected within the first 4 years of the Consent Decree 8.5 year time-line. (Line 46)
- Design of *Scarborough, Columbia Drive, Perimeter Park and Pepperwood Lift stations* were completed by our on-call consultants. Construction Bid documents for these three lift stations were delivered to Purchasing on July 9, 2012. **Design of Hammermill III and Royal Atlanta I Lift Stations were delivered to Purchasing on November 27, 2012.** (Line 47)
- Rehabilitation of *Hammermill lift station* was completed in July 2011 for \$164,854 less than the budget amount of \$230,000.

Water plant

Improvements are proceeding at the Scott Candler water treatment plant as follows:

- **A revised bid package was sent to the Purchasing Department on December 12, 2012,** for construction of a hypochlorite generation facility, to improve the cost-effectiveness of the water disinfection process. This project is estimated to cost just under \$ 3 million, and funding is available in the 2011 Bond issue. (Line 1)
- The *High Service Pump upgrades at the Candler plant* are under construction by Lakeshore Engineering. The pumps were purchased for about \$1.6 million, and the installation contract is \$2.062 million. Contractor has completed the high service pump installation and working to complete the associated piping work. Work is expected to be completed by May 23, 2013. (Line 29)
- A scope of work was sent to Purchasing in April 2012 to advertise an RFP for design services for the *Candler plant clear wells improvements project*, an approximately \$30 million project in the CIP. Funds were budgeted in the 2011 bond issue to start this design work. Pre-bid meeting is scheduled for October 31, 2012. **RFP received December 12, 2012. RFP Committee is reviewing the proposals.** (Lines 17, 18, 29)
- Request for Bids are being advertised for the demolition of the old Chattahoochee River raw water pumping station. BOC approved the low bid from John D. Stephens for \$1,330,700 on October 9, 2012. **Notice to Proceed is scheduled for February 4, 2013.** (Line 27)
- The spare bowl assemblies for the water plant clear well transfer pumps were purchased for \$55,100, well under the \$200,000 budgeted for this item (Line 5)

Water distribution system

- The *Raw Water transmission line* project has been completed by the general contractor, SJ Louis company, and came in under budget, at approximately \$15,641,344. The project is complete. (Line 28)
- The *McAfee water tank repairs/painting* project was completed in July 2011 within the construction contract amount of \$375,186, and well under the \$500,000 budgeted for this project. (Line 6)
- Bids were awarded by the Board of Commissioners on April 10, 2012, for the *Clairmont Water tank repair/painting* contract (\$483,000) and the Tucker Water Tank repair/painting contract (\$296,600) with Utility Service Company, Inc. Both projects are now complete, and came in under the \$ 1 million budgeted in the 2011 Bond issue for these projects. We are working on the

scope for Dunwoody elevated tank repair/painting. Tucker elevated tank and specifications were delivered to P & C on July 23, 2012. (Line 6)

- BOC approved the low bidder Sol Construction for \$3,093, 000 on October 9, 2012 for *North Shallowford water pumping station* improvements project. Notice to Proceed was issued on November 29, 2012. **Construction started** (Line 9)
- BOC approved the low bidder Sol Construction for \$1,415, 000 on September 25, 2012 for the *Tilly Mill pump station* improvements project. Notice to Proceed was issued on November 29, 2012. **Construction started** (Line 10)
- *Henderson booster pumping station* improvement has been completed by in-house staff for \$19,000. (Line 2)
- The in-house crews completed the equipment upgrades on the *Tucker ground storage pumping station* for \$29,996, and the Midvale booster pumping station for \$22,925, well under the \$170,000 budgeted for these two projects (Lines 3, 4)
- Bids were open on April 30, 2012, for asbestos *water main replacement in the Briarcliff Road* area. Construction contract NTP issued 8/17/12 (Kemi Construction -- \$1,570,800). **Construction is substantially complete.** (Line 82)
- ITB requests for high priority asbestos cement water main replacement projects for *Flats Shoals Road, Frazer Road, Briarlake Road, Henderson Road, Fair Oaks Road/Flakes Mill Road*, were delivered to Purchasing on March 15, 2012 and ITB Request for Allgood Road, Conyers Road, Eastland Road, Elam Road and Second Avenue were delivered to Purchasing on April 19, 2012. **Briarlake Road and Henderson Road main replacement awards will be on February 12, 2013 BOC Agenda** (Line 82)
- Parsons engineering is completing the plans for the first phase of *water main replacement along Scott Boulevard*, from the SR 78/Lawrenceville Highway split to DeKalb Industrial Boulevard. Engineering Staff working with on-call Consultants to expedite the design of Phase III of the 30” waterline due to recent waterline breaks. **Bid Documents and drawings delivered to Purchasing and contracting on December 20, 2012** (Line 24)
- Wolverton engineering has completed the plans for the *Candler Road water main replacement* project, which will be included in the GDOT bids for the final phase of Candler Road streetscape improvements. Bid opening scheduled November 14, 2012. **BOC approved the award to Kemi Construction for \$7,168,892 on January 22, 2013.** (Line 25)
- HDR engineering has completed final plans for phase 1 of the *Glenwood/Glendale Ave area 36” and 42” water main replacement* project; there are **106 easements (permanent and temporary construction)** that need to be acquired to bid this first phase of construction later in 2012. **We have notified all 106 property owners and obtained 83 easements so far. Potential condemnation of 23 easements** (Line 26)
- Superior Avenue 14” water line replacement design completed by Prime Engineering. **Bid Documents and drawings delivered to Purchasing and contracting on January 22, 2012** (Line 82)

Other projects

- *The Mason Mill park/Old Decatur Waterworks area Watershed Improvement Project*, to improve water quality in the South Fork Peachtree Creek watershed, is complete by Site Engineering, Inc., and came in within budget at \$1,132,490. This project included a \$1 million GEFA loan with \$500,000 principal forgiveness (equivalent to a grant of that amount) through the 2009 ARRA

(Stimulus Act). There is a ribbon cutting and celebration of this project on April 21, at 1:30 pm, along with the adjacent PATH greenway trail. The Pine Lake Watershed Improvement Project, which included a wetlands treatment facility, was also completed, in 2011, for which the County's share was \$880,000. (Line 83)

- Bids were opened on May 9, 2012, on the *Roadhaven Drive parking lot and drainage improvements* project at the Watershed facility at that location. Board of Commissioners approved the low bidder, Gary's Grading and Pipeline for \$534,951.44 on June 26, 2012. Notice to proceed was issued on October 22, 2012. **All clearing, grubbing, drainage work, base placement work and fencing is complete and pavement is underway.** (Line 68)
- Annual contracts are in place, for Water and sewer main installation (Notice of award on June 21, 2012), Water meter installation (Notice of award on June 15, 2012), Water meter replacement and cul-de-sac (Notice of award on June 6, 2012) (Lines 14, 15, 16, 19, 20, 23, 23, 34)
- BOC approved water meter replacement and service renewal contract for \$771,925 with MM&E on October 9, 2012. Bids opened for Fire Hydrant Replacement/Repair contract on June 14, 2012 and award pending. (Line 14,15)
- Sanitary Sewer cleaning contract for Northfork Peachtree Creek Area 2 was approved by BOC on October 9, 2012. Bids were received for General Area sewer cleaning contracts. **NTP issued for 3 contracts (1 for Peachtree Creek and 2 for General Area).** (Line 42)
- Notice to Proceed for Adjustment of Manhole Rings and Covers are Valve boxes contract was issued to MM&E on November 28, 2012. **Notice to Proceed for Classic City Utility, Inc. is pending.** (Line 34, 36)

If you have questions about any of these projects, please do not hesitate to contact us to discuss in more detail.

c: Zach L. Williams, COO
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