



TriCo Regional Sewer Utility

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CAPITAL & CONSTRUCTION COMMITTEE MEETING

Tuesday, September 8, 2020 at 4:30 P.M.

10701 N. College Ave, Suite A, Indianapolis, IN 46280

AGENDA

1. Public Comment
2. Dedications
3. Lift Stations 11 Pump Replacement
4. Lift Station 2 Odor Control Equipment
5. #1910 Office Landscaping
6. Capital Project Updates
7. Other Business

Next Scheduled C&C Meeting: Monday, October 5, 2020 at 4:30 pm



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: September 2, 2020

Subject: Dedications

Indianapolis Rehabilitation Institute and John D. Perry sanitary sewers are complete and ready for dedication. Staff is recommending acceptance of these sewers.

Recommended Action: Accept the dedication of Indianapolis Rehabilitation Institute and John D. Perry sanitary sewers.



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: September 2, 2020

Subject: Lift Station 11 Pump Replacement

The following quotes were received for replacement pumps at Lift Station 11:

Flygt (Xylem Water Solutions USA, Inc.)	\$57,768
KSB (Straeffler Pump & Supply, Inc.)	\$39,345
Grundfos (American Pump Repair & Service, Inc.)	\$35,400

Quotes include lifting equipment, spare parts, and accessories standard in lift station installations. TriCo has long used Flygt pumps for consistency in stocking spare parts and staff familiarity with maintenance and repair. We have no pumps from KSB or Grundfos, however both manufacturers have good reputations. While maintenance staff prefers Flygt, they believe KSB and Grundfos pumps are acceptable alternatives.

Existing pumps are 13 years old and in need of substantial repairs. They struggle to keep up with wet weather flows. The new pumps were upsized to handle buildout flows.

Next month staff will receive quotes for piping modifications, pump installation, and installation of a new control panel, variable frequency drives, and electrical equipment. Electrical equipment, valves and piping are original and beyond their useful life.

Recommended Action: Recommend the Board approve purchasing replacement pumps from American Pump Repair & Service, Inc. for \$35,400.



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: September 2, 2020

Subject: Lift Station 2 Odor Control Equipment

The current odor control system uses activated carbon media that requires replacement several times a year. The system has become costly, unreliable, and unable to consistently control odor at the site. Staff has received many complaints about odor in the last few years. Lift Station 2 is located in a high traffic area at 106th Street and Spring Mill Road. Walking paths run along both streets immediately adjacent to the lift station.

Staff has been working with the same wastewater odor control expert who guided the plant odor control project several years ago. He recommended a biofiltration system for the lift station. While these systems have a higher up-front cost, they provide long term savings from long media life, no chemicals, and minimal maintenance needs. We received one proposal from Biorem and we are waiting for a competing proposal from Bioair; both are reputable companies in this industry. Staff will present results and recommendations once the second proposal is received.

New equipment should be delivered by the end of the year. Later this fall staff will receive quotes for equipment installation. The total budget for this project was \$200,000.



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: September 2, 2020

Subject: #1910 Office Landscaping

Landscaping was designed by Land Story in coordination with our architects at Blackline. Their design included trees, shrubs, perennials, and lawn seeding around the new office and parking lot. The Office Unification project budget included \$50,000 for landscaping.

Staff issued a quote request to eight local landscaping contractors. The two quotes received were far over budget, so staff adjusted the scope of work accordingly and re-issued the quote request. Staff will present results and recommendations once new quotes are received.



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: September 2, 2020

Subject: Capital Project Updates

The following updates are provided for ongoing capital projects. Please refer to the Capital Project Fact Sheets for background information on individual projects.

1. #1802 – Haver Way Sewer Improvements (located southwest of Keystone and 96th Street)

Work will begin shortly once materials and equipment are delivered to the site. While completion is due in Spring 2021, the general contractor expects to finish the work by the end of this year.

2. #1901 – Lift Station 14 Parallel Force Main (located along Michigan Road from Austin Oaks to Ansley Park)

Construction is about 80% complete. Crews have installed pipe from Lift Station 17 along Michigan Road north to Lift Station 14 in Austin Oaks. Testing is underway. Next crews will complete the tie ins at both ends along with new valves and piping improvements at Lift Station 14. Completion is due in October.

3. #1902 – TriCo WRRF Expansion

Crews finished hydrostatic testing in Clarifier 9 and will soon do the same in Clarifier 8. Testing is necessary to assure the new tanks are watertight. The Mixed Liquor Splitter walls were completed in two concrete pours. Crews are working on the trough elevated floor slab in Clarifier 7. Two out of 14 VLR wall sections were poured. New screens, conveyor, grit washers, UV disinfection equipment, submersible pumps, and portable generator docking station were delivered to the site. Storm sewers were installed around the pond and entrance from Mayflower Park Drive. Existing pavement was removed around the shop. Grading is underway to reshape the pond and new parking areas.

Over the next month crews will continue site work around the new office, continue construction of VLR walls, and finish the clarifiers. Work will start on the influent splitter and pretreatment building. Site work for the new office will be complete by mid-October, which includes new paved parking areas, a new entrance from Mayflower Park Drive, sidewalks, security fence, gates, lighting, and a

reconstructed pond. Overall, the work is on schedule. Thieneman still expects to finish the project next summer, several months ahead of the substantial completion deadline.

4. #1906 – Eagle Creek Outfall Sewer Expansion (located between TriCo WRRF and Eagle Creek to the west)

Crews have begun delivering equipment and materials to the site. Easements have been cleared in preparation for construction. While completion is due in Spring 2021, the general contractor expects to finish the work by the end of this year.

5. #1910 – Office Unification

Drywall work is nearly complete with many walls receiving primer and a first coat of paint. Restroom tile work is mostly complete. Plumbing and HVAC work will be complete in the coming weeks. Electrical work continues. The new power feed from the Chemical Building will be complete shortly. Lighting and electrical device installation are underway. Exterior brick masonry work continues and should be complete shortly. Exterior metal trim, paneling, gutter and downspout installation will follow in the coming weeks. Most exterior windows as well as skylights are installed. Windows and doors on the front elevation as well as interior spaces will be installed in a few weeks after trades begin clearing out and the risk of damage is reduced.

Thieneman installed new storm sewers around the pond and parking areas. They continue to work on grading around the pond, removing existing pavement, and preparing for the new parking areas. Site work will be complete in October.

Our IT vendor is installing data lines in the new office space. Staff is receiving quotes for a replacement HVAC system in the lab, which was left out of the office construction project because the equipment was working at the time and dedicated to the lab space. Staff received quotes for new landscaping. If approved by the Board, landscaping will be installed late October-early November. Our office furnishings supplier expects on-time delivery and installation.

Alderson is still targeting office building completion at the end of October; however, they continue having difficulty getting certain materials and skilled labor due to the pandemic and may finish up to two weeks late.

6. #1911 – Lift Station 11 Pump and Control Panel Replacement

Staff conducted a pump-down test and worked with a consulting engineer to verify pump size and electrical equipment needs. New pumps will be upsized to handle buildout flows and variable frequency drives will be added to improve efficiency and better control flows to the plant.

7. #2001 – Little Eagle Creek Interceptor Extension

Staff continues to work with developers and property owners to deliver sewer service when needed. We plan to run design and construction concurrent with development just north of Brookhaven and Fieldstone. If the developer's project moves forward, staff will issue an RFP for engineering design services for our interceptor extension project.

8. #2002 – Lift Station 2 (106th/Spring Mill Road) Odor Control System Replacement

Staff worked with our odor expert to identify a reliable and lower maintenance odor control system. Two proposals were received for a bio-filtration system. If approved by the Board, equipment will be delivered at the end of the year and installed shortly thereafter.

9. #2003 – 2020 Neighborhood Sewer Extensions

This project will extend sewers to Williams Creek Farms, Woodhaven, Timber Ridge, and remaining parts of Lakewood Gardens. Staff held a preconstruction meeting with the contractor. Crews will begin work in Lakewood Gardens shortly. Construction will last through fall.

10. Lift Station 1 Repairs

The construction contractor has ordered the new generator. Delivery and installation are anticipated late fall. Staff is working with TriCo's property insurance carrier for reimbursement of expenses. Staff expects that TriCo will only be responsible for upsizing costs on the generator.