



TriCo Regional Sewer Utility

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CAPITAL & CONSTRUCTION COMMITTEE MEETING

Monday, June 1, 2020 at 4:30 P.M.

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

By Video Conference per EO 20-09

TriCo C&C Committee Meeting

Mon, Jun 1, 2020 4:30 PM - 5:15 PM (EDT)

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AGENDA

1. Public Comment
2. Flow Meter Equipment
3. #1902 WRRF Expansion Change Order 1
4. #1910 Office Unification Furnishings
5. #1910 Office Unification Change Order 2
6. Capital Project Updates
7. Other Business

Next Scheduled C&C Meeting: Monday, July 6, 2020 at 4:30 pm



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: May 29, 2020

Subject: Flow Metering Equipment

In 2014 TriCo acquired flow metering equipment for our Basin 1 (Home Place) I&I reduction project. This equipment was installed in gravity sewer locations throughout the basin. It allowed staff to zero in on I&I sources and make improvements as needed. This project successfully reduced I&I in Basin 1 to the point that we have not had a wet weather overflow in six years. Staff still monitors parts of Basin 1 as we continue I&I reduction efforts. Many flow meters have been moved to Basin 8 for similar purposes.

Staff anticipates an ongoing and continuous need for flow metering into the foreseeable future as we identify and address trouble spots in our collection system. Flow metering equipment has been in service continuously. Reliability issues are increasing as equipment ages. Staff requests replacement of five systems to meet our flow metering needs. Hach and ISCO are the predominant manufacturers of gravity sewer flow metering equipment. Staff was not pleased with Hach's service or reliability on previously purchased equipment and has found ISCO to be a better value. Gripp, Inc. is the local representative for ISCO. Funds will come from the Capital Budget – Annual Miscellaneous Repairs, Replacements and Line Relocations.

Recommended Action: Recommend approval of new flow metering equipment from Gripp, Inc. for \$42,064.



MEMORANDUM

To: Capital and Construction Committee
From: Wes Merkle
Date: May 29, 2020
Subject: #1902 Plan Expansion Change Order

In January staff began working with Thieneman and GRW on an extensive value engineering effort. We worked with equipment vendors to renegotiate pricing and adjusted Thieneman's scope of work where it made sense. Staff believes these changes will provide what we need at lower cost.

- VLR equipment package voluntary price reduction (\$20,000)
- VLR equipment package adjust startup and support scope (\$23,000)
- Clarifier equipment half bridges with anti-rotational scum baffles (\$40,000)
- Blower testing requirements (\$8,300)
- Ductile iron pressure class 150 for large diameter pipe (\$80,000)
- Ductile iron pipe fittings to use epoxy coated hardware (\$20,000)
- Emergency generator voluntary price reduction & seismic requirements (\$23,700)
- Odor duct single wall lined epoxy (\$7,400)
- Delete secondary exterior stairway to grit tank (\$13,350)
- Delete additional VLR walkway between tanks 6 & 7 (\$9,300)
- Umbrella insurance requirements (\$15,000)
- Separate VLRs 4 & 5 and adjust electrical conduit routing (\$42,100)

Change Order 1 resulted in a credit of \$302,150. The new contract amount will be \$21,634,850.

Several additional value engineering items will be pursued at a later date: grating and cover system at the grit and influent splitter structures, protective channel lining at the screening, grit and influent splitter structures, and clarifier trough covers. Staff anticipates at least \$50,000 in additional savings with these changes.

Recommended Action: Recommend approval of Change Order 1.



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: May 29, 2020

Subject: #1910 Furnishings

Over the last several months Blackline worked with staff to identify furnishing needs. Preliminary quotes were received from three local firms to provide furnishings. RJE provided the most competitive quote. RJE hosted a showroom tour last week for Blackline and staff to view samples of furnishings. Changes are being made based on staff input and a final quote will be available shortly. Furnishings are expected to be below budget.

The Office Improvements Committee discussed furnishings at their May 28 meeting.

Staff anticipates receiving a revised quote from RJE shortly. We will present more information on this item at the C&C meeting.



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: May 29, 2020

Subject: #1910 Office Unification Change Orders

Change Order 1 resulted from value engineering efforts for a credit of \$17,069. This included a roof overlay system for the existing building instead of complete removal and replacement, modifications to overhead doors, and changing the HVAC equipment manufacturer. Staff believes all three changes will result in a better final product in addition to reducing costs. Following the Utility's approval process, this change order was approved by the Utility Director in March.

Change Order 2 includes additional work items identified once construction got underway, including cross bracing, foundation repairs, and existing utilities. Shadow boxes around windows includes upgraded galvanized metal that will wear better with the masonry exterior. Change Order 2 adds \$27,779 to the contract amount.

Staff has had a lot of difficulty in negotiating fair pricing with Alderson. In several cases staff engaged outside vendors to do the same work for a fraction of the price proposed by Alderson. In other cases, hours estimated or charged were substantially higher than what was actually required to complete the work. Staff and Blackline have spent much more time negotiating change pricing with Alderson than was expected.

Staff anticipates one more change order requiring Board approval which will address remaining issues with the existing building that were uncovered during demolition, as well as changes required by Zionsville's plan review process.

The Office Improvements Committee discussed this change at their May 28 meeting and recommended its approval.

Recommended Action: Recommend Approval of Change Order 2.



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: May 29, 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)

Bids will be received at the end of June with results presented to the Board in July. Construction is anticipated through spring 2021.

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

Construction is underway. Crews are fusing pipe together and beginning the directional drilling installation process. Construction will last through fall of 2020.

3. #1902 – TriCo WRRF Expansion

Construction is underway and several weeks ahead of schedule. VLR excavation is mostly complete. Crews installed new air and RAS yard piping. Floor slabs for Clarifiers 8 and 9 were poured in one long day after several weeks of excavation, stone base, under-slab piping installation, and rebar placement. The pour included nearly 750 cubic yards of concrete or over 80 truckloads. The electrical crew installed conduit and wire in the existing RAS pump building and they have since moved on to the pretreatment building.

Over the next month crews will finish VLR excavation, continue yard piping installation, pour reinforced concrete walls for Clarifiers 8 and 9, and begin excavation for Clarifier 7, the mixed liquor splitter, and the grit structure.

The pandemic has had a limited overall impact on manpower and material delivery so far. Jack Hutchens with GRW continued daily inspection work at the plant.

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

DOW easements have been finally secured. Bids will be received at the end of June with results presented to the Board in July. Construction is anticipated through spring 2021.

5. #1910 – Office Unification

Alderson and its subcontractors have completed foundations, steel framing, and various utility work. Roof decking is underway. Alderson is preparing to pour interior concrete floor slabs. Lagging progress to this point was a result of steel framing delivery, which was built into Alderson's schedule from the beginning. There have been minor delays caused by the pandemic yet nothing that will impact critical path or the completion date of October 31.

Over the last several months Blackline worked with staff to identify furnishing needs. Preliminary quotes were received from three local firms to provide furnishings. RJE provided the most competitive quote. RJE hosted a showroom tour last week for Blackline and staff to view samples of furnishings. Changes are being made based on staff input and a final quote will be available shortly. Furnishings are expected to be below budget.

Plant Expansion contractor Thieneman is responsible for site work on the building project. Thieneman plans to begin site work in July. Thieneman, Alderson, and Plant staff have worked well together.

Staff plans to receive quotes for the Biosolids Building addition in August. This includes construction of two new bays – one to store the vector truck and the other to store workshop related equipment that won't fit in the reconfigured shop. The proposed location for the addition is currently being used by Thieneman to stockpile material and soil, which will be moved mid-summer. Staff will receive quotes for landscaping in August as well.

Staff expects the office project to be completed on time and on budget.

6. #2001 – Little Eagle Creek Interceptor Extension

No changes since last month. Staff plans to run design and construction concurrent with a large single-family development just north of Brookhaven and Fieldstone. The developer is waiting for Zionsville to release an economic development plan for the area surrounding the nearby Hamilton County-owned airport. The airport is expected to extend its runway south, potentially impacting the developer's preliminary plans. If the developer's project moves forward, staff will issue an RFP for engineering design services of our interceptor extension project.

7. #2003 – 2020 Neighborhood Sewer Extensions

This project will extend sewers to Williams Creek Farms, Woodhaven, Timber Ridge, and remaining parts of Lakewood Gardens. Survey work is complete and design is wrapping up. Bids will be received at the end of June with results presented to the Board in July. Construction will last through fall of 2020.

8. Lift Station 3 Force Main Relocation

This work was required because our existing force main was in conflict with Carmel's proposed roundabout project at 116th Street and College Avenue. The new force main is complete and in service.