



Board of Public Works and Safety

Agenda Item

Cover Sheet

MEETING DATE: September 25, 2018

☒ New Item for Discussion

☐ Previous Item for Discussion

☐ Miscellaneous

ITEM #: 4

INITIATED BY: Ray Thompson

☒ Information Attached

☐ Bring Paperwork from Previous Meeting

☐ Verbal

☐ No Paperwork at Time of Packets



September 17, 2018

TO: Board of Public Works and Safety Members

FROM: Ray Thompson *RT*
Utility Director

RE: Noblesville Biological Phosphorus Removal Project
Change Order #3

I am requesting the Board to approve change order #3 between the City of Noblesville and F.A. Wilhelm Construction Co. Inc. All of the requested items have been reviewed, discussed and agreed to by our engineers, contractor and utility staff. This will increase the contract amount by an additional \$59,213.00 and add 3 additional working days.

If you have any questions please feel free to contact me.

RJT

Attachments



AMERICAN
STRUCTUREPOINT
INC.

September 5, 2018

Mr. Ray Thompson
City of Noblesville Utilities
197 West Washington Street
Noblesville, Indiana 46060

RE: City of Noblesville WWTP – Phosphorus Removal and Aeration Improvements Change Order 3

Dear Mr. Thompson:

Following our review and negotiation of the pricing provided by the Contractor F.A. Wilhelm, American Structurepoint, Inc. recommends approval of Change Order 3 for the Noblesville Wastewater Treatment Plant Phosphorus Removal and Aeration Improvements Project in the amount of \$59,213.00 and an additional 3 working days.

The following is a brief description of the reasoning for each item in Change Order 3

1. Add grating support angle to “block out” around electrical equipment already in place. This work is on a time and material basis (Cost add = \$7,379)
 - At Aeration Tank 1, the grating supports needed to be rerouted around some electrical equipment already in place. This allowed the electrical equipment to stay in place.
2. Providing stainless steel bracket, clamp, and anchor bolt materials to replace existing corroded pipe supports in Aeration Tanks 3 and 4. Replacement of supports not included. (Cost add = \$13,735)
 - These materials will allow the City to replace existing supports in Aeration Tanks 3 and 4 that were under water and found to be corroded after the tanks were drained. The labor and equipment to replace the supports will be provided by others.
3. Removal and replacement of existing grout at west end of Gravity Thickener Tanks 3 and 4 with 2” topping slab. (Cost add = \$12,355, Time Add = 3 days)
 - When Gravity Thickener Tanks 3 and 4 were cleaned, the existing grout on the west end was found to be in rough condition and not compatible with the new collector equipment. By replacing 4 linear feet of grout with an approximately 2” topping slab, the rest of the existing grout was able to remain, and the grout profile will be compatible with the new collector equipment.
4. Test for continuity of conduits from existing MDP in Control building to existing MCC “MCB” in the “Old Blower Building”. (Cost add = \$581)
 - This non-destructive investigation and testing was completed to determine if the power conduits from the Control Building to the Old Blower Building were continuous metallic and to determine if the conduit could be used as a grounding for the power supply, as the wiring configuration was found in the field to be different than the record drawings.

5. Provide for 1 support of each of the three (3) 18" blower inlet pipes as near to expansion joints as practical, but no greater than 3 feet from expansion joint. Provide in stainless steel or provide an isolation pad to isolate dissimilar metals of support and stainless steel pipe. Support shall include SS U-bolt torqued to clamp pipe. Consider concrete maintenance pad location in layout of proposed supports. (Cost add = \$6,235)
 - The blower manufacturer provided an expansion joint on the inlet of the blowers when the equipment was delivered to site. With the addition of this expansion joint, the supports are required so that the pipe is not supported by the expansion joint.
6. Relocation of six (6) 6-inch valves from their existing locations to the vertical run of pipe at the west side of Aeration Tanks 3 and 4 for accessibility. (Cost add = \$16,474)
 - Six (6) 6-inch valves were relocated from their existing locations in the horizontal run to the vertical run in the new pipe at the west end of Aeration Tanks 3 and 4. The new location in the vertical run provides improved accessibility for the City for operation of the system.
7. Replacement of existing broken 12-inch butterfly valve in blower building. Valve is located on the discharge side of Blower No. 3 (Cost add = \$2,454).
 - The 12-inch butterfly valve isolating Blower No. 3 from the main air header was found to be broken during installation of Blower No. 3. This valve was replaced to allow for installation and testing of Blower No. 3, and for future isolation of Blower No. 3.

If you have any questions, please contact me at 317.547.5580 or urban@structurepoint.com

Very truly yours,
American Structurepoint, Inc.

Derek C. Urban, PE
Project Engineer

Cc: Derek Urban, American Structurepoint

City of Noblesville
WWTP Phosphorus Removal and Aeration Improvements

Change Order

No. 03

Date of Issuance: August 21, 2018

Effective Date: _____

Project: WWTP Phosphorus Removal and Aeration	Owner: City of Noblesville Utilities	Owner's Contract No.: N/A
Contract: WWTP Phosphorus Removal and Aeration		Date of Contract: August 30, 2017
Contractor: F.A. Wilhelm		Engineer's Project No.: 201600882

The Contract Documents are modified as follows upon execution of this Change Order:

Description:

1. Add grating support angle to "block out" around electrical equipment already in place. This work is on a time and material basis (Cost add = \$7,379)
2. Providing stainless steel bracket, clamp, and anchor bolt materials to replace existing corroded pipe supports in Aeration Tanks 3 and 4. Replacement of supports not included. (Cost add = \$13,735)
3. Removal and replacement of existing grout at west end of Gravity Thickener Tanks 3 and 4 with 2" topping slab. (Cost add = \$12,355, Time Add = 3 days)
4. Test for continuity of conduits from existing MDP in Control building to existing MCC "MCB" in the "Old Blower Building". (Cost add = \$581)
5. Provide for 1 support of each of the three (3) 18" blower inlet pipes as near to expansion joints as practical, but no greater than 3 feet from expansion joint. Provide in stainless steel or provide an isolation pad to isolate dissimilar metals of support and stainless steel pipe. Support shall include SS U-bolt torqued to clamp pipe. Consider concrete maintenance pad location in layout of proposed supports. (Cost add = \$6,235)
6. Relocation of six (6) 6-inch valves from their existing locations to the vertical run of pipe at the west side of Aeration Tanks 3 and 4 for accessibility. (Cost add = \$16,474)
7. Replacement of existing broken 12-inch butterfly valve in blower building. Valve is located on the discharge side of Blower No. 3 (Cost add = \$2,454).

Attachments (list documents supporting change):

Item 1: FAW COR-034
Item 2: FAW COR-045.2
Item 3: FAW COR-048
Item 4: FAW COR-051
Item 5: FAW COR-050
Item 6: FAW COR-042
Item 7: FAW COR-057

CHANGE IN CONTRACT PRICE:

Original Contract Price:

\$5,866,000.00

CHANGE IN CONTRACT TIMES:

Original Contract Times: ☐ Working days ☒ Calendar days

Substantial completion (days or date): July 26, 2018

Ready for final payment (days or date): August 27, 2018

City of Noblesville
WWTP Phosphorus Removal and Aeration Improvements

Increase ~~Decrease~~ from previously approved
Change Orders No. 1 to No. 2:

\$ 95,920.00

Contract Price prior to this Change Order:

\$5,961,920.00

Increase of this Change Order:

\$59,213.00

Contract Price incorporating this Change Order:

\$6,021,133.00

Increase from previously approved Change Orders
No. 1 to No. 2:

Substantial completion (days): August 15, 2018

Ready for final payment (days): September 14, 2018

Contract Times prior to this Change Order:

Substantial completion (days or date): August 15, 2018

Ready for final payment (days or date): September 14, 2018

Increase [Decrease] of this Change Order:

Substantial completion (days or date): August 20, 2018

Ready for final payment (days or date): September 19, 2018

Contract Times with all approved Change Orders:

Substantial completion (days or date): August 20, 2018

Ready for final payment (days or date): September 19, 2018

RECOMMENDED:

By: *Clark Milan, PE*
Engineer (Authorized Signature)

Date: 8/21/18

ACCEPTED:

By: *[Signature]*
Owner (Authorized Signature)

Date: 9/5/18

ACCEPTED:

By: *Dary Keyman*
Contractor (Authorized
Signature)

Date: 8-27-18

**Approval for Change Order 03,
WWTP Phosphorus Removal and Aeration Improvements Project**

Board of Public Works and Safety
City of Noblesville, Indiana

By: _____
John Ditslear, Mayor

By: _____
Lawrence Stork, Member

By: _____
Jack Martin, Member

Attest: _____
Evelyn Lees, Clerk