

Change Order # 1 Date 15 April 2019

“STANTEC” STANTEC CONSULTING SERVICES INC.
STANTEC Project # 173409473
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CLIENT CITY OF NORTH ROYALTON, OHIO
Client Project #
14600 State Road, North Royalton, Ohio 44133
Ph: (440) 237-1300 Fx: (440) 582-6334
email:

Project Name and Location: Wastewater Treatment Plant "A" Tertiary Filters and UV Disinfection Replacement

In accordance with the original Professional Services Agreement dated 18 July 2018 and Change Orders thereto, the Agreement changes as detailed below are hereby authorized.

Change in scope of work:

Design of Network and Electrical Updates

Additional design work will need to be performed to coordinate the new equipment with the existing control system at the plant, including provisions for:

- New CAT 6 Cable from Filter PLC to MCC room PLC.
- Replacement of MCC room SY/MAX PLC and IO modules with new Control Logix PLC.
- A DO card for non-potable pumps remote operation.
- An Ethernet to Fiber converter in MCC room PLC panel.
- Controls at SCADA for remote operation of 3 non-potable pumps.
- New CAT 6 cable from UV control panel to MCC room PLC.
- Replacement of level sensors and transmitter in both UV channels.
- A turbidity meter in new sampler house.
- Replacement of 2 DO probes in post aeration channels (Transmitters are in filter building MCC room).
- New signal and power cables for effluent flow meter.
- Removal of existing SYNNET cable from filter PLC to MCC room PLC.
- Removal of existing SYNNET cable from filter PLC to Sludge Pump building PLC.
- Removal of existing SYNNET cable from MCC room PLC and connection to Sludge Pump building SY/MAX PLC (to complete SYNNET ring network).
- New Fiber cable from MCC room PLC to Control room (using existing communication conduit).
- Replacement of existing Fiber Optic patch panel in control room MCC room with new fiber optic patch panel + Fiber to ethernet converter + small UPS.
- Reconnection of existing fibers to new FOPP.

The anticipated additional drawings and specifications to be provided during design are:

- 1 Network diagram drawing
- 1 Demolition drawing
- 2 Electrical site plans
- 1 specification section for network components

Design of Motor-Operated Slide Gates at UV Channels

Additional design work will need to be performed to provide new motor-operated slide gates to replace the existing manually-operated gates at the influent to the UV Channels. The additional work will include:

- Site visits to determine the routing of existing power conduits and available spares in the area of the UV Channels.
- Design of new slide gates and electric actuators.
- Design of power to new slide gate actuators.
- Design of Ethernet network to control the new gate actuators.
- Updates to I&C datasheets.

The anticipated additional drawings and specifications to be provided during design are:

- One additional specification section for slide gates with electric actuators.
- Addition of slide gates and actuators to process mechanical and electrical drawings.
- Modifications to P&ID drawings.
- Modifications to ductbank drawings.
- Modifications to conduit development drawings.

All other scope items in the original contract remain unchanged.

| | | | | | |
|--|------------------------------|--|--|-----------|-------------------|
| | Total fees this Change Order | | | \$ | 17,700.00 |
| | Original agreement amount | | | \$ | 177,000.00 |
| | Change Order Number | | | \$ | - |
| | Change Order Number | | | \$ | - |
| | Change Order Number | | | \$ | - |
| | Change Order Number | | | \$ | - |
| | Total Agreement | | | \$ | 194,700.00 |

Effect on Schedule: New Estimated Completion Date is July 31, 2019

Payments shall be made in accordance with the original agreement terms. All other items and conditions of the original Agreement shall remain in full force and effect.

STANTEC CONSULTING SERVICES INC.

CITY OF NORTH ROYALTON, OHIO

Kristen M. Miller, Vice President
Print Name and Title

Robert Stefanik, Mayor
Print Name and Title

Signature _____

Signature _____

Date Signed: _____

Date Signed: _____