

DISTRICT 4

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
For Inclusion on Board Agenda

 X Resolution or Ordinance (Blue) Waiver of First Requested
 Recommendations of Boards, Commissions & Committees (Green)
 Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES
FROM: Scott Niehaus, Village Manager
DATE: February 6, 2019 (COW) (B of T) **Date:** February 21, 2019
TITLE: Central Pressure Adjusting Station Improvements
Change Order No. 3 (Underground Utilities, Building Foundation & Electrical Items)
SUBMITTED BY: David P. Gorman, P.E., Assistant Director of Public Works *DPG*

BACKGROUND/POLICY IMPLICATIONS:
Change Order No. 3 is a net increase of \$88,246.62. The Change Order is related to the conforming to DuPage Water Commission and IEPA regulations, addressing poor soils and electrical/generator and SCADA issues.

FISCAL IMPACT/FUNDING SOURCE:
Current Contract Amount: \$2,230,169.97
Change Order #3: \$88,246.62
Total Revised Contract Amount: \$2,318,416.59
Project #: WA 17-01
PO #: 2019-00000326
Account: Water/Sewer Capital Reserve 520.790.715.75420

Review (as necessary):
Village Attorney X _____ Date _____
Finance Director X _____ Date _____
Village Manager X _____ Date _____

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.

Interoffice Memo



To: Scott Niehaus, Village Manager
 From: David Gorman, P.E., Assistant Director Public Works Director *LDG*
 Through: Carl Goldsmith, Public Works Director *gj*
 Date: February 5, 2018
 Subject: Central Pressure Adjusting Station Improvements
 Change Order No. 3

Attached please find Change Order No. 3 for this project in the amount of a net increase of \$88,246.62. The change order represents two (2) Authorized Unit Price (AUP) items, and thirteen (13) time and material billings related to existing site conditions, Water main redesign (DuPage Water Commission and IEPA requirements) and electrical/SCADA related issues.

SITE CONDITIONS - UNSUITABLE SOILS BENEATH NEW PRESSURE ADJUSTING STATION

The Village performs soils boring prior to a project involving the installation of underground utilities or structures. An item for the excavation and removal of unsuitable soils was included as an agreed to unit price (AUP) in the project bid schedule.

Contractor Billing WCD-004 is related to poor soils encountered along the south and west wall of the new Pressure Adjusting Station (PAS). This includes 56 cubic yards of unsuitable soils and Time and Material (T &M) billings related to replacing the excavated area with stone and increasing the width of the building footing (by 6"). The parameters of additional excavation and foundation footing expansion were recommendations made by the geotechnical engineering firm (SEECO Consultants) hired by the Village to ensure that the structure was being erected on stable soil. Total billing = \$12,236.81 (\$2,016 unsuitable soils and \$10,220.81 T&M) and a 4 Calendar Day time extension related to the work.

Contractor Billing WCD-005 is related to poor soils encountered in the floor slab area of the new Pressure Adjusting Station. This includes 131 cubic yards of unsuitable soils and Time and Material (T &M) billings related to replacing the excavated area with stone and Geogrid (geosynthetic material used to reinforce soils and reduce excavation and fill). The parameters of additional excavation and the installation of Geogrid were recommendations made by SEECO Consultants. Total billing = \$22,361.90 (\$4,716.00 removal of unsuitable soil \$17,645.90 T&M) and a 2 Calendar Day time extension related to the work.

SITE CONDITIONS - WATER TOWER FOUNDATION BASES

Contractor Billing WCD-011 is related to the portions of the new PAS foundation that were in conflict with the old foundations of the water tower that was on site in the 1930s. Village staff had knowledge of the existence of the old water tower but did not have any specific documentation to verify if any of the foundations were in place and where they were located. Drawings of the former PAS and the underground water storage tank were included in the bid documents but nothing could be substantiated regarding the old water tower and where the large foundations that supported the legs of the old water tower were located. During the pre-bid meeting, bidders were made aware that demolition debris and foundation walls of the old Village Hall could possibly be encountered. Total billing = \$3,640.59 and a 1 Calendar Day time extension related to the work.

WATER MAIN RE-DESIGN
DUPAGE WATER COMMISSION

Contractor Billing WCD-003 is for work that needed to be performed to comply with DuPage Water Commission (DWC) requirements for water main exiting their facility. DWC requires that the connection to the Village water system occur a minimum of 10 feet past the foundation of their facility. This necessitated a field change to move the water main connection north of where the plans originally indicated. DWC could not verify the vertical location of the water main and this also resulted in the contractor modifying the vertical alignment of the water main to properly enter the PAS. In addition Public Works took the opportunity to raise the Village's section of water main to a depth of approximately 6 feet below grade (a manageable working depth) as oppose to the 10 foot depth of the existing DWC water main. Total billing = \$20,425.85 (\$10,890.00 exploratory trench & \$9,535.85 T&M and a one (1) Calendar Day time extension related to the work.

Contractor Billing WCD-006 is related to related work performed under WCD-003. This T&M billing is for two (2) 45 degree bends used to make a 90 degree bend at the eastern foundation wall of the PAS back towards the design connection point within the PAS. A stick of pipe is also included to account for the new pipe to meet the original connection point within the PAS. Total billing = \$2,134.40 and a one (1) Calendar Day time extension related to the work.

WATER AND SANITARY SEWER RE-DESIGN
IEPA COMPLIANCE

Christopher B. Burke Engineering Ltd. received comments from IEPA regarding the permit submittal that proved to be more extensive than anticipated. The revised design changed the original design alignment of the water main, both leaving the PAS and the leg of the water main that runs west from the site towards Main Street. The redesign requires additional bends and casing pipe to meet IEPA water/sewer separation requirement

Contractor Billing WCD-007 is related to the new water main exiting the new PAS. The revised design incorporates two bends to keep the water main at the required depth of 5' 6" below finished grade. Total billing \$2,527.70 and a one (1) Calendar Day time extension related to the work.

Contractor Billing WCD-008 is also related to new water main exiting the new PAS. The revised design incorporates four 45 degree bends allowing the water main to maintain IEPA separation requirements. Total billing \$2,332.20 and a one (1) Calendar Day time extension related to the work.

Contractor Billing WCD-009 is also related to leg of the new water main running towards Main Street. The revised design incorporates four 45 degree bends (and a casement pipe) that align the new water main to avoid private property and return to the alignment so it can connect to the existing water main. Total billing \$4,719.60 and a one (1) Calendar Day time extension related to the work.

Contractor Billing WCD-0010 is related to the work of installing a clean out on a bend to the sanitary sewer line. The sanitary sewer line was moved to avoid a conflict with the electrical hand hole and new informational sign. It is standard Village procedure to place a clean out on a bend of a sanitary sewer so it may be flushed in the event of a blockage due to the change in direction of the pipe. Total billing = \$834.21 and one (1) Calendar Day time extension related to the work.

ELECTRICAL/GENERATOR/SCADA ISSUES.

Contractor Billing WCD-0012 is related to the work of installing an additional disconnect to the back-up generator at Fire Station 45. A meeting was held with the Fire Department, the General Contractor, electrical subcontractor and the Design Engineer regarding relocation of the generator. The original generator location was deemed poor due to the proximity to commuter parking lot and existing ComEd lines interfering with the location of the proposed foundation. The Fire Department was open to relocating the proposed generator adjacent to the west wall of Fire Station 45. *A credit of \$805.67 was issued to the Village for the relocation*

During this discussion it was established that a generator disconnections switch needs to be installed at existing Fire Department generator. It is Village best practice and compliance with National Electric Code (NEC) to install a disconnect switch to all new generators. The installation of an exterior disconnect from the utility service allows the proposed 80kW generator to be tested independently and keeps the fire house service from being interrupted. *Total billing = \$3,204.28*

Contractor Billing WCD-0013 is related to the new lighting controller. During the review of the shop drawings, internal discussion within Public Works saw it beneficial to keep the parking lot lighting and the street lighting on separate timers. In addition to asking for a separate timer, a back-up power option was also requested. The installation of back-up power will keep the timer working during any interruptions of power, whether it was for routine panel inspection or during a loss of power from ComEd. *Total billing = \$993.30*

Contractor Billing WCD-0014 is related to the new lighting controller. While the contractor was exposing the existing conduits that exited the current lighting controller, conduits were encountered that could not be accounted for. Despite Village staff efforts, the apparatus the conduit was feeding could not be located as there was too much interference with the locating equipment. The contractor was directed to continue exposing conduits so an extended assessment could be made regarding a conflict with the west foundation wall. A determination as to what the conduit was connected to was necessary to avoid a potential interruption to the fire house, traffic signal or street lighting. It was finally resolved that the existing conduits did not feed any live fixtures or controllers. Lastly the contractor was directed to expose more of the conduit so Village staff could make splice to the conduit that feeds the street lights on St. Charles so that the second conduit/foundation wall conflict could be resolved. This avoided an extended delay related to the construction of the PAS. *Total billing = \$11,460.99 and thirteen (13) Calendar Day time extension related to the work.*

Contractor Billing WCD-0015 is related to the new SCADA panel. After receiving the review comments from the design engineer and the Village regarding the SCADA panel's submittal, the subcontractor informed the general contractor that the ability to set the controlled pressure from the SCADA system was not detailed in the bidding documents. Staff is in concurrence with this assessment. *Total billing = \$1,514.10*

This change order will be presented to the Public Works Committee at their meeting of February 12, 2019. If the Committee recommends approval, please present this change order to the President and Board of Trustees for their review and approval at their regular meeting on February 21, 2019. If approved, please have two signed copies returned to Engineering for further processing.

RESOLUTION
R _____

**A RESOLUTION AUTHORIZING A CHANGE ORDER
INVOLVING AN INCREASE/DECREASE IN THE DOLLAR AMOUNT OF
THE CONTRACT OF \$10,000 OR MORE AND/OR EXTENDING/ SHORTENING THE
TIME IN WHICH THE CONTRACT IS TO BE COMPLETED BY THIRTY (30) DAYS
OR MORE**

WHEREAS, pursuant to Illinois Compiled Statutes, Chapter 720, Section 5/33E-9, units of local government are required to make specific findings prior to authorizing any change order relative to a contract which would increase or decrease the dollar amount of the contract by \$10,000 or more, or would extend or shorten the time in which the contract is to be completed by thirty (30) days or more; and

WHEREAS, staff has presented and recommended the proposed Change Order No. 3 to the contract between the Village of Lombard and Joseph J. Henderson & Son, Inc. regarding the Central Pressure Adjusting Station Improvements project, as attached hereto as Exhibit "A" and made part hereof, (the "Change Order") to the Corporate Authorities of the Village of Lombard; and

WHEREAS, said Change Order attached hereto as Exhibit "A" would increase the dollar amount of the contract by \$88,246.62.

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: That after reviewing the explanation of staff as to the necessity of and reasons for the Change Order attached hereto as Exhibit "A", the President and Board of Trustees find as follows:

- A That the circumstances which necessitated said Change Order were not reasonably foreseeable at the time the contract was entered into.
- B. That the basis of the Change Order was not within the contemplation of the contract when the contract was signed.
- C. That it is in the best interests of the Village of Lombard to approve the Change Order in its proposed form.
- D. That to the extent that it may have been necessary to go to bid relative to the work contemplated by said Change Order; bidding is hereby specifically waived as to the Change Order work.

SECTION 2: That having made the findings set forth in Section 1 above, the President and Board of Trustees hereby approve the Change Order attached hereto as Exhibit "A", and direct and authorize the Village President and Village Clerk to execute said Change Order on behalf of the Village.

Adopted this 21st day of February, 2019, pursuant to a roll call vote as follows:

Ayes: _____

Nays: _____

Absent: _____

Approved by me this 21st day of February, 2019.

Keith Giagnorio
Village President

ATTEST:

Sharon Kuderna
Village Clerk

VILLAGE OF LOMBARD CHANGE ORDER

PROJECT NAME: Central Pressure Adjusting Station Improvements PROJECT NO.: WA 17 01
 LOCATION: 20 East St. Charles Road CHANGE ORDER: 3
 CONTRACTOR: JJ Henderson & Son DATE: 2/5/2019
 DESCRIPTION OF CHANGE ORDER: Changed site conditions, regulation compliance & electrical issues

ORIGINAL CONTRACT AMOUNT:	[1]	<u>\$2,093,000.00</u>
TOTAL OF PREVIOUS AUTHORIZED CHANGE ORDERS:	[2]	<u>\$137,169.97</u>
CURRENT CONTRACT AMOUNT: ((1)+[2])	[3]	<u>\$2,230,169.97</u>
PROPOSED CHANGE ORDER: (PENDING APPROVAL)	[4]	<u>\$88,246.62</u>
PROPOSED REVISED CONTRACT AMOUNT: (PENDING APPROVAL) ((3)+[4])	[5]	<u>\$2,318,416.59</u>

NET OF ALL CHANGE ORDERS: (PENDING APPROVAL) ((2)+[4])	<u>\$225,416.59</u>
TIME EXTENSION OR REDUCTION:	<u>26</u>
TOTAL CONTRACT TIME:	<u>296 (270+26) Calendar Days</u>
BUDGET ESTIMATE: (Demolition & Parking Lot/PA Station)	<u>\$2,475,000.00</u>
ENGINEER'S ESTIMATE: (Demolition & Parking Lot/PA Station)	<u>\$2,075,000.00</u>

RECOMMENDED FOR ACCEPTANCE :

<u>Ray Schwab</u>	<u>2/5/2019</u>			
Resident Engineer	Date	Approved By:	Director of Finance	Date
<u>[Signature]</u>	<u>2/5/2019</u>	Approved By:	Village Manager	Date
Contractor	Date	(-<\$10K or 25%)		
<u>[Signature]</u>	<u>2/8/19</u>	Approved By:	Village President	Date
Village Engineer	Date	(>\$10K or 25%)		
<u>[Signature]</u>	<u>2/5/19</u>	Attest:	Village Clerk	Date
Director of Public Works	Date			
Assistant Director of Finance	Date			

It is understood that as part of this change order that the Contractor agrees that all bonds, permits, insurance and guarantees are hereby extended to incorporate this Change Order.

Central Pressure Adjusting Station Improvements
Change Order #: 3

2/5/2019

No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	Amount	Description
UP#1	Removal and Disposal of Unsuitable Material	0.0	CY	\$36.00	187.0	187.0	\$6,732.00	Removal of poor soils
UP#2	Exploration Trench, 8 Foot Depth	0.0	CY	\$90.00	121.0	121.0	\$10,890.00	Locating underground utilities.
WCD-003	Hydrant R&R and Additional Water Main Work	0.0	L. Sum	\$9,535.85	1.0	1.0	\$9,535.85	Rework DuPage Water Commission connection. One (1) calendar day.
WCD-004	Unsuitable Soils Under Foundations	0.0	L. Sum	\$10,220.81	1.0	1.0	\$10,220.81	CA-7 backfill and additional concrete for widen footing. Four (4) calendar days.
WCD-005	Unsuitable Soils Under Slab on Grade	0.0	L. Sum	\$10,220.81	1.0	1.0	\$17,645.90	CA-7 backfill and geogrid underneath slab. Two (2) calendar days.
WCD-006	Under Slab Water Main Changes	0.0	L. Sum	\$2,134.40	1.0	1.0	\$2,134.40	Water main modification underneath east wall. One (1) calendar day.
WCD-007	Water Main Changes From Building	0.0	L. Sum	\$2,527.70	1.0	1.0	\$2,527.70	Water main modification underneath south wall. One (1) calendar day.
WCD-008	Water Main Separation From Sanitary	0.0	L. Sum	\$2,332.20	1.0	1.0	\$2,332.20	IEPA & VoL standard compliance. One (1) calendar day.
WCD-009	Water Main Sewer Crossing	0.0	L. Sum	\$4,719.60	1.0	1.0	\$4,719.60	IEPA compliance and avoiding private property conflict. One (1) calendar day.
WCD-010	Sewer Clean Out	0.0	L. Sum	\$834.21	1.0	1.0	\$834.21	VoL standard compliance. One (1) calendar day.
WCD-011	Break Water Tower Bases	0.0	L. Sum	\$3,640.59	1.0	1.0	\$3,640.59	Site conflict resolution. One (1) calendar day.
WCD-012	Generator Relocation and Disconnect	0.0	L. Sum	\$3,064.97	1.0	1.0	\$3,064.97	Relocation of new PAS generator and disconnect for existing Fire Station generator.
WCD-013	Lighting Controller Timer Addition	0.0	L. Sum	\$993.30	1.0	1.0	\$993.30	Timer and back-up for independent street lighting and parking lot timing.
WCD-014	Lighting Controller Foundation	0.0	L. Sum	\$993.30	1.0	1.0	\$11,460.99	Investigating and resolving existing on-site conduit conflicts. Thirteen (13) calendar days.
WCD-015	Add Pressure Signals to SCADA	0.0	L. Sum	\$993.30	1.0	1.0	\$1,514.10	Compliance with intended Village operations. Specification not detailed in contract document.

TOTAL AMOUNT = \$88,246.62