

**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:** Tim Sexton, Acting Village Manager

**DATE:** September 4, 2013 (COW) (B of T) **Date:** September 19, 2013

**TITLE:** Terrace View Pond Improvements  
 Change Order No. 2

**SUBMITTED BY:** David A. Dratnol, P.E., Village Engineer *gy*

**BACKGROUND/POLICY IMPLICATIONS:**

Change Order No. 2 is a net increase to the contract of \$56,109.90. The change order is for the adjustment of existing contract items and the establishment of four (4) new unit prices related to the construction of the Greenfield Street pump station facility, 115 W. Crystal Avenue and the shoreline of Terrace View Pond.

**FISCAL IMPACT/FUNDING SOURCE:**

Current Contract Amount: \$1,259,664.33  
 Change Order #2: \$56,109.90 (Water/Sewer Fund)  
 Total Revised Contract Amount: \$1,315,774.23  
 P.O.# 2013-00002437  
 Project # SS 12 03 Phase 1 CONSTRUCTION

Account: 410.710.725.75350

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: Tim Sexton, Acting Village Manager  
 From: David A. Dratnol, P.E., Village Engineer  
 Through: Carl Goldsmith, Public Works Director  
 Date: September 4, 2013  
 Subject: Terrace View Pond Improvements  
 Change Order # 2

Attached please find Change Order # 2 for this project in the amount of a net increase of \$56,109.90. The change order represents adjustment to existing contract quantities and new pay items associated with the construction of the storm sewers at the former 115 West Crystal site, the intake structure, sediment chamber and pump station located by Greenfield Avenue. All authorized unit prices (AUP) and changes in contract quantity have been reviewed by Christopher B. Burke Engineering Ltd (CBBEL), and Village staff.

### ***Field Changes***

Two field modifications were instated.

- The first field modification was a change to the foundation/base placed under both the pump station and discharge structure. The original intent of this was to use Controlled Low Strength Material (CLSM) as the base/foundation under each structure. Per the Geotechnical Engineer's (SEECO) recommendation, this would have required the contractor to dig a 25.5' X 25.5' pad for the Pump Station. After discussions between the CBBEL and SEECO it was decided to switch the Controlled Low Strength Material to 3,000 psi concrete. Doing so decreases the size of that pad to 16' X 16'. Even though concrete is more expensive, the cost is off set by the reduced amount of total material, excavation and backfill. This results in a net savings for the Village of Lombard.

<i>Elimination of CLSM</i>	<i>138.9 CY x \$128.00/CY</i>	<i>(\$17,779.20)</i>
<i>Removal and Disposal of Unsuitable Material</i>	<i>35.0 CY x \$ 60.00/CY</i>	<i>(\$ 2,100.00)</i>
<i>3,000 PSI Concrete</i>	<i>85.0 CY x \$162.00/CY</i>	<i>\$ 13,834.80</i>
		<u><i>(\$ 6,044.40)</i></u>

- The second field modification was additional excavation around the discharge structure, pump station and 30 inch diameter ductile iron pipe (D.I.P.) which is the storm sewer located between the sediment structure and the pump station. Poor localized soil conditions necessitated an increase in the pay item for the removal and disposal of unsuitable materials and a new pay item, P.G.E. Backfill. P.G.E. is an acronym for porous granular embankment, which is large stone, typically 6 inches in size. P.G.E. prevents long term settling to areas subject to traffic or other loading conditions. The quantity difference between the two items is accounted for by a decrease of 25.0 CY of removal and disposable of unsuitable material concerning the aggregate walking trail that crosses the pump station facility.

<i>Removal and Disposal of Unsuitable Material</i>	<i>250.0 CY x \$60.00/CY</i>	<i>\$15,000.00</i>
<i>PGE Backfill</i>	<i>275.0 CY x \$30.00/CY</i>	<i>\$ 8,250.00</i>
		<u><i>\$23,250.00</i></u>

### **ADJUSTMENT TO EXISTING QUANTITIES**

Refer to the summary sheet behind the change order form for quantity changes to contact pay items. Pay items that increased or decreased by \$5,000.00 or more are summarized below:

#### **20201200 Removal and Disposal of Unsuitable Material**

Refer to the explanations given in the above section. *Total change in cost for this pay item is \$12,900.00*

#### **59300100 Controlled Low Strength Material**

Refer to the explanations given in the above section. *Total change in cost for this pay item is \$17,779.20*

**ZZCBEL01 Coir Fiber Roll**

Coir fiber rolls are tube-shaped erosion-control devices filled with straw, flax, rice, coconut fiber material, or composted material. Each roll is wrapped with UV-degradable polypropylene netting for longevity. The logs help slope stabilization and slow, filter, and spread overland flows. This helps prevent erosion. The fiber rolls will also help reduce the amount of sediment to the pond filtering runoff and capturing sediments. After lowering the level of the pond the erosion of the east and south sides of the pond proved to be more extensive than expected. Addition quantities of logs were needed to stabilize the east and south embankment of the pond. *Total change in cost for this pay item is \$11,500.00*

**NEW PAY ITEMS:**

**AUP #5 PCC Driveway Removal & Replacement**

During the decommissioning of the sanitary service line at 115 West Crystal Avenue, it was discovered the service connection to the main line sanitary sewer was located directly under the driveway apron of the home located across the street. Per Village policy the entire apron was removed and replaced. *Total cost of this work results in an increase of the contract amount by \$1,128.00*

**AUP#6 PGE Backfill**

Refer to field changes section of the memorandum. *Total cost for this work results in an increase of the contract amount by \$8,250.00.*

**AUP #7 3,000 psi Concrete Base**

Refer to the field changes section of the memorandum. *Total cost for this pay item increases of the contract amount by \$13,834.80*

**AUP#8 Extra Work Around Intake Structure:**

After lowering the water level of the pond, it was discovered that there was more silt around the intake structure than projected. Therefore action needed to be taken to minimize the amount of silt that could potentially enter the storm sewer system. The work will consist of cutting the existing cofferdam to an elevation (determined by the design engineer) that will be near the proposed normal waterline. Once the cofferdam is cut, it will be capped with a C channel to cover any sharp edges. Extra supports will also be installed to increase the strength of the cofferdam. A 6 foot band will be excavated along the outer perimeter of the cofferdam and filled with rip rap. *Total cost for this work results in an increase of the contract amount by \$27,340.00*

This change order will be presented to the Public Works Committee on September 10, 2013. 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 September 19, 2013. If approved, please have two signed copies returned to Engineering for further processing.

RGS/DAD

**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. 2 to the contract between the Village of Lombard and Martam Construction Inc. regarding the Terrace View Pond 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 \$56,109.90.

**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.

Resolution \_\_\_\_\_

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Adopted this 19th day of September, 2013, pursuant to a roll call vote as follows:

Ayes: \_\_\_\_\_

Nays: \_\_\_\_\_

Absent: \_\_\_\_\_

Approved by me this 19th day of September, 2013.

\_\_\_\_\_  
**Keith Giagnorio**  
**Village President**

ATTEST:

\_\_\_\_\_  
**Sharon Kuderna**  
**Village Clerk**

# VILLAGE OF LOMBARD CHANGE ORDER

PROJECT NAME: Terrace View Pond Improvements

PROJECT NO.: SS-11-01

LOCATION: Crystal Avenue & Greenfield Avenue

CHANGE ORDER: 2

CONTRACTOR: Martam Construction, Inc.

DATE: 9/4/2013

DESCRIPTION OF CHANGE ORDER: Field modifications to design and adjustment to existing pay items

ORIGINAL CONTRACT AMOUNT: [1] \$1,227,446.00

TOTAL OF PREVIOUS AUTHORIZED CHANGE ORDERS: [2] \$32,218.33

CURRENT CONTRACT AMOUNT: ([1]+[2]) [3] \$1,259,664.33

PROPOSED CHANGE ORDER: (PENDING APPROVAL) [4] \$56,109.90

PROPOSED REVISED CONTRACT AMOUNT: (PENDING APPROVAL) ([3]+[4]) [5] \$1,315,774.23

NET OF ALL CHANGE ORDERS: (PENDING APPROVAL) ([2]+[4]) \$88,328.23

TIME EXTENSION OR REDUCTION: 0

TOTAL CONTRACT TIME: 164 calendar days

BUDGET ESTIMATE: \$555,000.00


ENGINEER'S ESTIMATE: \$981,654.50

## RECOMMENDED FOR ACCEPTANCE :

 9/4/13 Approved By: \_\_\_\_\_  
Resident Engineer Date Director of Finance Date

 9/5/2013 Approved By: \_\_\_\_\_  
Contractor Date (<\$10K or 25%) Village Manager Date

 9/5/13 Approved By: \_\_\_\_\_  
Village Engineer ADDW Date (>\$10K or 25%) Village President Date

 9/5/13 Attest: \_\_\_\_\_  
Director of Public Works Date Village Clerk 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.



## Terrace View Pond Improvements

9/4/2013

Change Order #:

2

Coded Pay Item	No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	Amount	Description
20201200		Removal and Disposal of Unsuitable Material	450	CY	\$60.00	665.0	215.0	\$12,900.00	Material removed from the site and replaced with the PGE backfill in AUP#6
59300100		Controlled Low Strength Material	450	CY	\$128.00	311.1	-138.9	(\$17,779.20)	The CLSM base that was removed from the existing quantities and replaced with 3000 psi concrete under structures
20100101		Tree Removal (6 To 15 Units)	15	Unit	\$20.00	102.8	87.8	\$1,756.00	Balancing quantity.
20100210		Tree Removal (Over 15 Units)	82	UNIT	\$35.00	51.7	-30.3	(\$1,060.50)	Balancing quantity.
20101350		Tree Pruning (Over 10" Dia)	4	EACH	\$150.00	5.0	1.0	\$150.00	Balancing quantity.
40603335		Hot-Mix Asphalt Surface Course, Mix	46	TON	\$200.00	45.2	-0.8	(\$160.00)	Balancing quantity.
550B0410		Storm Sewers Class B, Type 2, 24"	485	FOOT	\$110.00	462.2	-22.8	(\$2,508.00)	Balancing quantity.
Z0013797		Stabilized Construction Entrance	235	SQ YD	\$28.00	262.1	27.1	\$758.80	Balancing quantity.
ZZCBBEL01		Coir Fiber Roll	2,210	FOOT	\$25.00	2670.0	460.0	\$11,500.00	Added for areas of erosion around the pond.
AUP#5		PCC Driveway Removal & Replacement	0	SQ FT	\$6.00	188	188	\$1,128.00	Driveway replaced due to sanitary service line connection was located under the driveway across form @ 115 W. Crystal
AUP#6		PGE Backfill	0	CY	\$30.00	275	275	\$8,250.00	Backfill necessary to prevent future settlement over the 30" DIP and around structures.
AUP#7		3,000 PSI Concrete Base	0	CY	\$162.00	85	85	\$13,834.80	Change of base under the Pump Station and Discharge Structure to decrease the size and cost of the base.
AUP#8		Extra work around Intake Structure	0	LS	\$27,340.00	1	1	\$27,340.00	Cutting the existing cofferdam down, capping the top with a C channel, installing supports, excavating silt and placing Rip Rap 6' around the outside of the cofferdam to prevent silt from entering the intake structure
<b>Total</b>								<b>\$56,109.90</b>	