

DISTRICT 1

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: David A. Hulseberg, Village Manager

DATE: July 29, 2013 (COW) (B of T) **Date:** August 15, 2013

TITLE: Terrace View Pond Improvements
Change Order No. 1

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

BACKGROUND/POLICY IMPLICATIONS:

Change Order No. 1 is a net increase to the contract of \$32,218.33. The change order is for supplying and installing a pond aeration system.

FISCAL IMPACT/FUNDING SOURCE:

Current Contract Amount: \$1,227,446.00
Change Order #1: \$32,218.33 (Water/Sewer Fund)
Total Revised Contract Amount: \$1,259,664.33
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: David A. Hulseberg, Village Manager
From: David A. Dratnol, P.E., Village Engineer *Dratnol*
Through: Carl Goldsmith, Public Works Director *CG*
Date: July 29, 2013
Subject: Terrace View Pond Improvements
Change Order # 1

Attached please find Change Order # 1 for this project in the amount of a net increase of \$32,218.33. The change order represents supplying and installing an aeration system (bubbler system) for Terrace View Pond and the removal of additional concrete pavement on Crystal Avenue. All billings have been reviewed by Christopher B. Burke (resident engineer for the project) and Village staff.

BACKGROUND

The Park District is the owner of Terrace View Pond. However, as part of the Terrace View Pond Improvements project, the Park District dedicated to the Village of Lombard, a permanent easement for the purpose of managing and maintaining the pond. The terms of the Intergovernmental Agreement (IGA) makes the Village responsible for maintaining the pond.

A significant amount of algae builds up on the surface of the pond due to a lack of movement and oxygen within the body of water. This lack of movement and oxygen not only causes the algae build-up, but creates an odor during hot weather periods. The Village is aware that there have been many objections from neighboring residents about the algae build-up and odor. Now that the Village has maintenance responsibility for Terrace View Pond, a solution to mitigate the algae and stagnation problem was sought. The Park District had an aeration system (fountain type) in the pond, but it was ineffective, as the current water level was too low for the system to function properly. Christopher B. Burke Engineering (the design engineering for the Village project) recommended that a system of eight five-plate bubblers be installed within Terrace View Pond.

AERATION SYSTEM

An aeration system is necessary to help reduce the algae collecting on the surface of the water. The algae makes the pond lose its aesthetic appeal and can cause an unpleasant odor. An aeration system will reduce the algae by oxygenating the water. Adding oxygen to the water will help dissolve the elements that support the life of the algae, which are hydrogen sulfide (the unpleasant odor), carbon dioxide, and methane. Oxygen also supports fish and bacteria that consume the organic material. There are two main types of aeration systems: surface (fountains) and subsurface (bubblers) systems.

A fountain type system pumps water into the air. This process requires a depth of at least two feet. Algae and other debris can clog the fountain, rendering the fountain ineffective. The current conditions at Terrace View Pond include high amounts of surface algae and a lack of depth over the entire pond to properly support this type of aeration system.

A bubbler type of aeration system is the preferred alternative for Terrace View Pond. The main advantage of bubblers is that air is pumped from a compressor into the pond, so clogging of tubes and lack of water depth will not impede the system. A hose connects the on-shore compressor to an aeration unit near the bottom of the pond. Each unit has five plate diffusers attached to it that release air into the pond from the compressor.

NEW PAY ITEMS:

INSTALL AERATION SYSTEM: This is for the installation of eight five-plate bubblers, the air compressor, and the hoses. *Total cost of this work results in an increase of the contract amount by \$22,384.58*

ELECTRICAL INSTALLATION: This is for a three (3) wire, 30 amp circuit between the pump control panel and the compressor cabinet. *Total cost of this work results in an increase of the contract amount by \$558.00*

EXCAVATION/BACKFILL: This is for a 12 inch to 18 inch deep by 24 inch wide trench for the aeration tubing from the pump control panel to the water's edge. *Total cost of this work results in an increase of the contract amount by \$1,100.00*

MODIFY CONTROL CABINET: To accommodate the bubbler system the following changes must be made to the new cabinet: Change the panel transformer from 5KVA to 7.5KVA, change the load center main breaker from a 40A 1pole to a 40A 2 pole and provide a 30A 2pole Ground Fault circuit breaker. *Total cost of this work results in an increase of the contract amount by \$1,494.15*

ADJUSTMENT TO EXISTING QUANTITIES

Refer to the summary sheet behind the change order form for quantity changes to contact pay items 17 and 18. A field decision was made to replace concrete pavement panels adjacent to the utility dig on Crystal Avenue. This is the location where the sanitary and water services for 115 West Crystal are being disconnected from each respective main. *Total cost of this work results in an increase of the contract amount by \$6,681.60*

This change order will be presented to the Public Works Committee on August 13, 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 August 15, 2013. If approved, please have two signed copies returned to Engineering for further processing.

RGS/DAD

===== **MARTAM** CONSTRUCTION, INC. =====

General Contractors & Engineers



7/25/13

Dear John / David,

Martam Construction Inc. proposes to install the aeration system for a lump sum price of..... \$25,536.73

- Rollins will provide and install aeration system for $\$21,318.65 \times 1.05 = \$22,384.58$
- Electrical installation = \$558,00
- Excavation / backfill for aeration tubing from pump control panel to water edge = \$1,100.00

Flolo & Electrical panel modification – $1,423 \times \$1.05 = \$1,494.15$

Regards,



Edward M. Ismail, P.E.
Senior Project Manager
Martam Construction, Inc.

R E S O L U T I O N

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. 1 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 \$32,218.33.

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 15th day of August, 2013, pursuant to a roll call vote as follows:

Ayes: _____

Nays: _____

Absent: _____

Approved by me this 15th day of August, 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: 1

CONTRACTOR: Martam Construction, Inc.

DATE: 7/26/2013

DESCRIPTION OF CHANGE ORDER: Implementation of an aeration system

ORIGINAL CONTRACT AMOUNT:		[1] <u>\$1,227,446.00</u>
TOTAL OF PREVIOUS AUTHORIZED CHANGE ORDERS:		[2] <u>\$0.00</u>
CURRENT CONTRACT AMOUNT: ([1]+[2])		[3] <u>\$1,227,446.00</u>
PROPOSED CHANGE ORDER: (PENDING APPROVAL)		[4] <u>\$32,218.33</u>
PROPOSED REVISED CONTRACT AMOUNT: (PENDING APPROVAL) ([3]+[4])		[5] <u>\$1,259,664.33</u>

NET OF ALL CHANGE ORDERS: (PENDING APPROVAL) ([2]+[4])		<u>\$32,218.33</u>
TIME EXTENSION OR REDUCTION:		<u>0</u>
TOTAL CONTRACT TIME:		<u>164 calendar days</u>
BUDGET ESTIMATE:		<u>\$555,000.00</u>
ENGINEER'S ESTIMATE:		<u>\$981,654.50</u>

RECOMMENDED FOR ACCEPTANCE :

 7-29-13
Resident Engineer Date


Approved By: _____
Director of Finance Date

 7/30/2013
Contractor Date

Approved By: _____
(<\$10K or 25%) Village Manager Date

 7/30/13
Village Engineer Date

Approved By: _____
(>\$10K or 25%) Acting Village President Date

 7/30/13
Director of Public Works Date

Attest: _____
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
Change Order #: 1

7/26/2013

Coded Pay Item	No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	Amount	Description
AUP#1		Installation of Aeration System	0	LS	\$22,384.58	1	1	\$22,384.58	Installation of bubblers, hoses and air compressor
AUP#2		Electrical Installation	0	LS	\$558.00	3	3	\$558.00	Installation of a three (3) wire. 30 A circuit between the pump control panel and the
AUP#3		Excavation/Backfill	0	LS	\$1,100.00	1	1	\$1,100.00	Excavation/Backfill of a 12" to 18" by 24" trench for the aeration tubing from the pump control panel to the water's edge
AUP#4		Modify Control Cabinet	0	LS	\$1,494.15	1	1	\$1,494.15	Excavation/Backfill of a 12" to 18" by 24" trench for the aeration tubing from the pump control panel to the water's edge
42000300	17	PORTLAND CEMENT CONCRETE PAVEMENT 8"	67	SQ YD	\$72.00	143.8	76.8	\$5,529.60	Replacement of additional panels of concrete pavement in the vicinity of 15 West Crystal Avenue
44000100	18	PAVEMENT REMOVAL	67	SQ YD	\$15.00	143.8	76.8	\$1,152.00	Removal of additional panels of concrete pavement in the vicinity of 15 West Crystal Avenue

TOTAL AMOUNT = \$32,218.33