

**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 *Dah*

**DATE:** November 9, 2011 (COW) (B of T) **Date:** November 17, 2011

**TITLE:** Terrace View Pond Improvements  
Final Design Engineering Contract

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

**BACKGROUND/POLICY IMPLICATIONS:**

Final engineering design services for alleviating storm water related issues at Terrace View Pond.

**FISCAL IMPACT/FUNDING SOURCE:**

Total Contract Amount: \$111,069.57

Funding: Water/Sewer Capital Reserve

Account#: 7110.809425

PW Project Number: SS-11-01

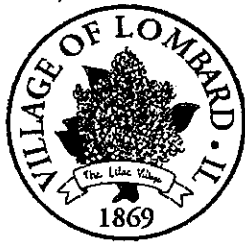
HTE Project Number: 1202

Review (as necessary):

Village Attorney X _____	Date _____
Finance Director X <i>Matthew Sexton</i>	Date <i>11/10/11</i>
Village Manager X <i>David A. Hulseberg</i>	Date <i>11/10/11</i>

**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.





To: David Hulseberg, Village Manager  
 Through: Carl S. Goldsmith, Director of Public Works *CSG by DAD*  
 From: David A. Dratnol, P.E., Village Engineer *DAD*  
 Date: November 9, 2011  
 Subject: Terrace View Pond Improvements  
 Final Design Engineering Contract

Attached please find a resolution, contract, and fee schedule for final design engineering services for Christopher B. Burke Engineering LTD. (CBBEL) regarding proposed storm water related improvements to Terrace View Pond. The pond is located by Park View School and is bounded by Greenfield Avenue on the south, Elizabeth Street on the west, Crystal Avenue on the north and Park Avenue on the west. The pond is located on Lombard Park District property.

At the October 25<sup>th</sup> meeting of the Lombard Park District Board of Park Commissioners, the Park Board voted to support an Intergovernmental Agreement (IGA) between the Village of Lombard and the Lombard Park District. The proposed IGA would contain the terms and conditions of constructing Option G, as presented in the Terrace View Pond Stormwater Feasibility Study.

Option G incorporates lowering the current water level of Terrace View Pond by one foot and installing a relief storm sewer from Crystal Avenue which will directly discharge into Terrace View Pond. In order to drop the normal water level of the pond, the installation of a new pump station and the control panel is required. The associated landscaping plan for the exposed shoreline will include native plants that will serve to stabilize the newly exposed shoreline. The construction of the relief sewer will increase the sewer capacity along Crystal Avenue and will also help alleviate flooding conditions. The installation of the twin 24 inch diameter relief sewers will necessitate the purchase of a parcel of property. This is necessary due to the width of the easement over the twin storm sewers. The parcel's function would not only be to provide adequate maintenance space of the storm sewer lines but part of the parcel could feature an asphalt path that would serve as an direct access point to Terrace View Pond. The remaining space could be used as off-street parking for people utilizing Terrace View Pond.

The resulting solution is beneficial for both short, high-intensity duration storm events and long-duration storm events. The proposed solution will assist in providing stormwater relief to the residents on Crystal Avenue.

The scope and fee were negotiated with CBBEL and agreed to by both parties. This work will be performed for a not-to-exceed phase 2 design engineering services fee of \$111,069.57. The scope of work includes preparation of plans, specifications, engineer's estimate of cost, pump station design, wetland permitting and preparation of plats concerning the potential acquisition of property along Crystal Avenue. Please note CBBEL fees do not include property appraisal, legal fees or any other costs inherent in purchasing a property.

Please present this agreement and resolution for Final Engineering services to the President and Board of Trustees for their review at their regular meeting of November 17, 2011. If approved, please return one original signed copy to Public Works-Engineering for further processing.



**RESOLUTION**  
**R \_\_\_\_\_ 12**

**A RESOLUTION AUTHORIZING SIGNATURE OF  
PRESIDENT AND CLERK ON AN AGREEMENT**

**WHEREAS**, the Corporate Authorities of the Village of Lombard have received an Agreement between the Village of Lombard, and Christopher B. Burke Engineering Ltd. regarding the Terrace View Pond Improvements project as attached hereto and marked Exhibit "A"; and

**WHEREAS**, the Corporate Authorities deem it to be in the best interest of the Village of Lombard to approve such agreement.

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 the Village President be and hereby is authorized to sign on behalf of the Village of Lombard said agreement as attached hereto.

**SECTION 2:** That the Village Clerk be and hereby is authorized to attest said agreement as attached hereto.

Adopted this 17th day of November, 2011.

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

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

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

Approved this 17th day of November, 2011.

\_\_\_\_\_  
**William J. Mueller**  
**Village President**

ATTEST:

\_\_\_\_\_  
**Brigitte O'Brien**  
**Village Clerk**





## VILLAGE OF LOMBARD CONTRACT

CONTRACT DOCUMENT NUMBER SS-11-01

This agreement is made this the 15th day of November, 2011, between and shall be binding upon the Village of Lombard, an Illinois municipal Corporation hereinafter referred to as the "VILLAGE" and Christopher B Burke Engineering Ltd. hereinafter referred to as the "ENGINEER" and its successors.

Witnessed, that in consideration of the mutual promises of the parties delineated in the contract documents, the ENGINEER agrees to perform the services and the VILLAGE agrees to pay for the following services as set forth in the contract documents:

The preparation and delivery of construction documents (consisting of engineering plans, specifications and estimates) and wetland permitting for the construction of Option G, as presented in the Terrace View Pond Stormwater Improvements Feasibility Study, dated September 22, 2011.

1. This contract shall embrace and include all of the applicable contract documents listed below as if attached hereto or repeated herein:
  - a. Design Engineering Request for Qualifications (dated January 25, 2010) consisting of the following:
    - i) Cover Sheet
    - ii) Table of Contents
    - iii) General Provisions
    - iv) Special Provisions
  - b. ENGINEER'S Statement of Qualifications (dated February 12, 2010)
  - c. Terrace View Station Improvements Request for Proposal (dated May 11, 2011)
  - d. ENGINEER'S Proposals (dated May 26, 2011)
  - e. ENGINEER'S Work Effort and Fee Schedule Letter (dated June 27, 2011)
  - f. ENGINEERS report TERRACE VIEW POND STORMWATER IMPROVEMENTS FEASIBILITY STUDY (dated October 6, 2011)
  - g. ENGINEER'S Work Effort and Fee Schedule Letter (dated November 9, 2011)
  - h. Required Certificates and Signatures and Certificate of Insurance
2. The VILLAGE agrees to pay, and the ENGINEER agrees to accept as full payment for the services, which are the subject matter of this contract in accordance with the General Provisions.
3. This Contract represents the entire agreement between the parties and may not be modified without the written approval of both parties.

IN WITNESS WHEREOF, the Village of Lombard, Illinois by William J. Mueller, Village President, and the ENGINEER have hereunto set their hands this the 17th day of November, 2011.

If an individual or partnership, all individual names of each partner shall be signed or if a corporation, an officer duly authorized shall sign here:

**CHRISTOPHER B BURKE ENGINEERING LTD.**

Print Company Name

Accepted this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

Individual or Partnership \_\_\_\_\_ Corporation \_\_\_\_\_

\_\_\_\_\_  
By

\_\_\_\_\_  
Position/Title

\_\_\_\_\_  
By

\_\_\_\_\_  
Position/Title

THE VILLAGE OF LOMBARD, ILLINOIS

Accepted this the 17th day of November, 2011.

\_\_\_\_\_  
William J. Mueller, Village President

Attest:

\_\_\_\_\_  
Brigitte O'Brien, Village Clerk



**VILLAGE OF LOMBARD**  
**ENGINEER'S CERTIFICATION**

\_\_\_\_\_, having been first duly sworn depose and states as follows:  
(Officer or Owner of Company)

\_\_\_\_\_, having submitted a proposal for:  
(Name of Company)  
Final design and permitting for the Terrace View Pond Stormwater Improvements, hereby certifies that said ENGINEER:

1. has a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105(A) (4).
2. is not delinquent in the payment of any tax administered by the Illinois Department of Revenue, or if it is:
  - a. it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the approve Revenue Act; or
  - b. it has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.
3. is in full compliance with the Federal Highway Administration Rules on Controlled Substances and Alcohol Use and Testing, 49 CFR Parts 40 and 382 and that

\_\_\_\_\_  
(Name of employee/driver or "all employee drivers")  
is/are currently participating in a drug and alcohol testing program pursuant to the aforementioned rules.

By:  
\_\_\_\_\_  
Authorized Agent of ENGINEER

Subscribed and sworn to  
before me this the \_\_\_\_\_  
day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Notary Public

**Terrace View Pond Improvements  
Cost Estimate - Phase II Engineering Services**

Final Engineering	Personnel & Hours													Total Hours	% of Hours	Total Cost	
	Project Manager (Eng. VI)	Project Engineer (Eng. V)	Project Engineer (Eng. IV)	Design Engineer (Eng. III)	Landscapist Architect	Environ Resource (V)	Environ Tech	Survey Manager (Sur. V)	Survey Lead (Sur. IV)	Project Surveyor (Sur. II)	Staff Surveyor (Sur. I)	CAD Manager	CAD Technician (Cad. II)				Admin
Rate 1	6	6	16	6	48	6	6	8	12	16	16	6	6	4	92	10.7%	\$4,942.50
Task 1 - Meetings/Agency Coordination			2												60	7.0%	\$2,625.00
Task 2 - Plats and Legal Documents and Add'l Survey <sup>2</sup>			4												12	1.4%	\$515.00
Task 3 - Utility Coordination	1														12	1.4%	\$515.00
Task 4 - Preliminary P, S & Es (65%) <sup>3</sup>	12	42	22	80	24	4						24	128	8	364	42.3%	\$16,280.00
Task 5 - DuPage County Stormwater Management Permitting	2	24	16	32	60	8							4	4	128	14.7%	\$6,144.00
Task 6 - Pre-Final P, S & Es (93%)	4	24	22	40	4	4							8	2	165	19.2%	\$7,417.75
Task 7 - Final O&M and Bidding Documents (100%)	2	4	6	12	2								2	1	41	4.8%	\$1,808.50
Subtotal	27	76	88	164	44	132	19	8	12	22	16	40	192	20	860		
% of Hours	3.1%	8.8%	10.2%	19.1%	5.1%	15.3%	2.2%	0.9%	1.4%	2.6%	1.9%	4.7%	22.3%	2.3%	100.0%		
Total Cost	\$1,890.00	\$4,484.00	\$4,180.00	\$6,068.00	\$2,024.00	\$7,722.00	\$603.25	\$548.00	\$664.00	\$814.00	\$460.00	\$1,840.00	\$7,776.00	\$670.00			\$38,733.25
Multiplier																	\$109,663.77
By Others																	\$1,405.80
Direct Costs																	\$111,069.57
Total Cost																	\$111,069.57

<sup>1</sup> Current 2011 Average Rates on file with IDOT.

<sup>2</sup> Assume Village to provide title commitment

<sup>3</sup> Assume Village provide soil sample/report





# SCOPE OF WORK

November 9, 2011

## ***FINAL ENGINEERING PHASE***

Based on our October 25, 2011 meeting with the Park District, we are going forward with the final design and permitting of Option G as outlined in our Phase I Report. Option G includes lowering the normal water level of the pond approximately one foot with a new pump station and re-vegetating the exposed banks of the pond. Option G also includes constructing a relief sewer(s) from the Crystal Avenue sewer to the pond. The following scope and work effort are required to complete the design and permitting of Option G.

Task 1 –Meetings/Agency Coordination: CBBEL will initially meet with the Village to review the completed preliminary engineering report and discuss the scope and schedule for the design and permitting.

CBBEL will also meet with the Village to review the 65%, 95% and 100% submittals. We assume that we will also meet with the Park District one time to coordinate the design.

Before and during the permit review process, we expect to have meetings with the regulatory agencies and Village. We also expect to have to prepare responses to comments received during the review process. We have budgeted for attendance at 5 meetings and included budget to cover the cost of submittal of 3 responses to comments. If additional meetings, or responses to comments, are required they will be billed on a time and materials basis.

Task 2 – Plats and Legal Documents and Additional Survey: Upon confirming the required property/easement that identified in the preliminary, CBBEL will prepare a plat and legal descriptions for the affected parcels. We have assumed that one (1) easement and one (1) property take will be required. The existing property lines previously established will be the basis for the development of the plats and legal descriptions.

We will also perform a topographic survey of the route for the proposed relief sewers and the pavement on Crystal Avenue where the sewers will be located.

Right-of-way acquisition shall be in accordance with Titles II and III of the “Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970” (Public Law 91-646) and any subsequent amendments. Transaction Screens in accordance with ASTM E 1528 will be prepared for each parcel, and if necessary, an environmental site assessment in accordance with ASTM E 1527 will be prepared.

Task 3 – Utility Coordination: CBBEL will send the plans to all known utility companies for their review. Based on the information received from the utility companies CBBEL will mark the locations of their facilities on the plans. CBBEL will design the proposed to minimize utility conflicts.

# SCOPE OF WORK

November 9, 2011

CBBEL will also review the proposed underground work and its proximity to any existing utilities located in the field prior to the start of utility work.

Task 4 – Preliminary Plans Specifications and Estimates (65% Submittal): CBBEL will prepare plans, specifications and a cost estimate for the proposed improvements to meet all applicable Village and IDOT design criteria inclusive of full plans and specifications in standard units (not metric). The plans, specifications and estimate will be submitted for review to the Village and the Park District.

Under this task we will provide pump station design and prepare drawings which will include equipment specifications for the pumping facilities. As the first step in the design of the proposed pumping facility, CBBEL will prepare a Design Memorandum which will consist of a descriptive narrative and one-line sketches, and will act as the design guide for the preparation of the pump station drawings. The Design Memo will include a general description of the pump station and will establish pump station design parameters such as range of pumping flow rate, pumping head, motor horsepower, and general size/depth and configuration of the wet well. Connection to the Village's SCADA system will also be discussed in the Design Memo. CBBEL assumes the Village will provide CBBEL with their standard SCADA requirements for a storm water pump station including alarms, addressable data points and preferred equipment compatible with the existing SCADA system.

The Design Memo will be submitted to the Village for review. Plans, specifications and a cost estimate will be developed upon approval of the Design Memo. It appears that the existing outlet/weir structure located on the southwest side of the pond is not suitable for mounting a pump at the correct elevation to allow for lowering the normal pond water elevation. Therefore, a new precast concrete wet well structure will be proposed to house a simplex storm pump installation. An automatic pump controller housed in a stainless steel enclosure will be designed for the simplified pump controls. A short forcemain will convey the stormwater into the existing 36" outlet gravity pipe.

Project specific special provisions will be prepared in accordance with the Village and IDOT guidelines. Below is a list of anticipated plan sheets:

## Anticipated Plan Sheets

Title Sheet

Summary of Quantities

General Notes

Alignment Ties and Benchmark Sheet

Existing and Proposed Typical Sections

Existing Conditions and Removal Sheets

Grading and Utility Plan

Construction Details

Stormwater Pollution Prevention Plans, General Notes and Details

Soil Erosion and Sedimentation Pond, Overall Construction Sequencing Notes and Plan

Landscaping (Re-vegetation) Plans and Details

Cross-Sections

# SCOPE OF WORK

November 9, 2011

Pump Station Drawings  
SCADA One Line Ladder Diagrams

Task 5 – DuPage County Stormwater Management Permitting: The project will involve work within a regulatory floodplain and may possibly cause wetland impacts, both of which are Special Management Areas regulated by DuPage County. A full permit submittal in DuPage County format will be required. We have assumed that Tab 2 (Stormwater Management) if needed, will be permitted by the Village as a partial waiver community and will not be needed in the County submittal.

This task includes preparation of a full Tab 4 (Wetlands) and Tab 5 (Riparian) submittal. Any hydrologic or hydraulic analysis required by the County as part of the wetland permitting will also be completed under this task. The required exhibits, specifications, data and project information will be compiled and assembled for placement in permit application packages to the DuPage County, U.S. Army Corps of Engineers and the Illinois Environmental Protection Agency. We will coordinate development of documents with you and other project team members.

Task 6 – Pre-Final Plans, Specifications and Estimates (95% Submittal): Based on the 65% review comments, CBBEL will prepare pre-final contract documents consisting of plans, specifications, estimate of time, status of utilities to be adjusted and an estimate of construction cost.

Task 7 – Final QA/QC and Bidding Documents (100% Submittal): Based on the Village and other permit agencies review comments, CBBEL will revise the plans, specifications and estimate. The final plans will be resubmitted to the Village and permitting agencies for final comments and approval. Bid documents will then be submitted to the Village.

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