

DISTRICT #Village-wide

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

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

X

TO: PRESIDENT AND BOARD OF TRUSTEES

FROM: William T. Lichter, Village Manager

DATE: October 23, 2007 (COW) (B of T) **Date:** November 01, 2007

TITLE: Stormwater/Combined Sewer Modeling Project
Design Engineering

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

BACKGROUND/POLICY IMPLICATIONS:

Please see memo.

FISCAL IMPACT/FUNDING SOURCE:

Total Contract Amount: \$197,886.79
HTE Project Number: 0814
Account: 7901.755660
PW Project Number: SS-08-01

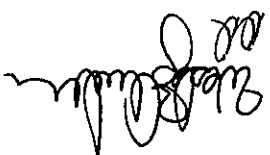
Review (as necessary):

Village Attorney X _____
Finance Director X _____
Village Manager X *WTL* _____
Date _____
Date _____
Date *10/24/07* _____

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 Memorandum



William T. Lichter, Village Manager
Wes Anderson, Director of Public Works
David A. Dramol, P.E., Village Engineer

To: _____
Through: _____
From: _____
Date: _____
Subject: _____

Stormwater/Combined Sewer Modeling Project

Attached please find a contract and resolution pertaining to the design engineering services for the Stormwater/Combined Sewer Modeling Project. Phase I of the project is the Gatz Pond Watershed model and Phase II is the NAS Watershed model (see attached map showing watershed areas). This project develops a comprehensive computer model of the Village Stormwater and Combined Sewer System which will be used to plan improvements to the Village Sewer System to minimize and/or eliminate sewerage backup and overflow problems.

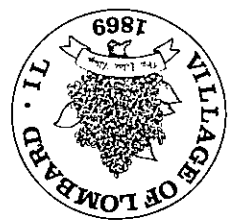
Two short-listed firms submitted proposals for this project. The Public Works evaluation team concurred that Christopher B. Burke Engineering, Ltd. (CBBEL) of Rosemont, Illinois is the most qualified firm to serve as design engineer for the project. CBBEL has satisfactorily designed several projects in Lombard.

Staff negotiated scope and fee with CBBEL. The not-to-exceed fee for design engineering services is \$135,840.72 for Phase I and \$62,046.07 for Phase II for a total project cost of \$197,886.79. The FY08 Budget includes \$80,000 for this project and the balance will be programmed in FY09. Phase I is scheduled to be completed November 2008 and phase II in November 2009.

Please present this agreement and resolution to the President and Board of Trustees for their review at their regular meeting of November 01, 2007. If approved, please have both signed copies returned to Engineering for further processing.

WBA/PK

cc: File: SS-08-01
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RESOLUTION
R _____
08

**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 Design Engineering of the Stormwater/Combined Sewer Modeling 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 1st day of November, 2007.

Ayes: _____

Nays: _____

Absent: _____

Approved this 1st day of November, 2007.

William J. Mueller
Village President

ATTEST:

Bridette O'Brien
Village Clerk

APPROVAL AS TO FORM:

Thomas P. Bayer
Village Attorney

VILLAGE OF LOMBARD

CONTRACT

Stormwater/Combined Sewer Modeling Project

CONTRACT DOCUMENT NUMBER SS-08-01

This agreement is made this 1st day of November, 2007, between and shall be binding upon the Village of Lombard, an Illinois municipal Corporation hereinafter referred to as the "VILLAGE" and Civitech Engineering, Inc. 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:

Design Engineering services for Stormwater/Combined Sewer Modeling Project

1. This contract shall embrace and include all of the applicable contract documents listed below as if attached hereto or repeated herein:
 - a. Request for Qualifications and Request for Proposal (January 18, 2006) consisting of the following:
 - i) Cover Sheet
 - ii) Table of Contents
 - iii) General Provisions
 - iv) Special Provisions
 - b. Request for Proposal Dated June 07, 2007
 - c. ENGINEER'S Proposal Dated June 22, 2007
 - d. ENGINEER'S Memo with Work Effort & Fee Dated October 03, 2007
 - e. 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.

4. The ENGINEER shall proceed with the project as directed by the VILLAGE. The ENGINEER shall not exceed \$80,000 in FY08 without direction from the VILLAGE.

IN WITNESS WHEREOF, the Village of Lombard, Illinois by William J. Mueller, Village President, and the ENGINEER have hereunto set their hands this 1st day of November 2007. 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 _____, 2007.

Individual or Partnership _____ Corporation

By _____

Position/Title _____

By _____

Position/Title _____

THE VILLAGE OF LOMBARD, ILLINOIS

Accepted this _____ day of _____, 2007.

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)

Christopher B. Burke Engineering, Ltd., having submitted a proposal for:
(Name of Company)

Stormwater/Combined Sewer Modeling Project Phase I – Gatz Pond Watershed FY08-FY09 to the Village of Lombard, 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: _____
Officer or Owner of Company named above

Subscribed and sworn to before me this _____ day of _____, 2007.

Notary Public

**VILLAGE OF LOMBARD
STORMWATER COMBINED SEWER MODELING
WORK EFFORT AND FEE STRUCTURE
GATZ POND WATERSHED**

| Rate (Average Rate Classification) | Project Manager | QA/QC | Engineer IV | Engineer III | Survey Manager | Staff Surveyor | CADD Technician | Administrative | Hours | Rate | Total |
|--|-----------------|------------|-------------|--------------|----------------|----------------|-----------------|----------------|--------|-------------|-----------------|
| Task 1 - Review of Unsteady Flow Model | 2 | 1 | 8 | 40 | | | | 4 | 55 | \$ 2,026.84 | \$ 111,475.20 |
| Task 2 - Meeting With Village Staff | 3 | 3 | 3 | 6 | | | | 1 | 16 | \$ 566.98 | \$ 9,071.68 |
| Task 3 - Review of Combined and Storm Sewer Data | 1 | 1 | 6 | 28 | | | | | 38 | \$ 1,416.97 | \$ 53,844.86 |
| Task 4 - Field Survey | 1 | 1 | 4 | 6 | 6 | 56 | | | 84 | \$ 2,637.03 | \$ 221,708.52 |
| Task 5 - Modeling Level of Detail | 2 | 1 | 8 | 24 | | | | 4 | 39 | \$ 1,460.54 | \$ 56,990.06 |
| Task 6 - Meeting With Village Staff | 3 | 3 | 3 | 3 | | | | 1 | 13 | \$ 448.53 | \$ 5,830.89 |
| Task 7 - Flow and Meter Quality Monitoring Program | 2 | 1 | 16 | 24 | | | | 4 | 47 | \$ 1,858.42 | \$ 87,174.74 |
| Task 8 - Hydrologic and Water Quality Parameters | 2 | 1 | 16 | 84 | | | | 2 | 131 | \$ 4,906.30 | \$ 643,725.30 |
| Task 9 - Hydraulic Model Preparation | 2 | 1 | 16 | 140 | | | | 2 | 189 | \$ 6,981.28 | \$ 1,319,762.52 |
| Task 10 - Meeting With Village Staff | 3 | 3 | 3 | 6 | | | | 1 | 16 | \$ 566.98 | \$ 9,071.68 |
| Task 11 - Model Calibration/Verification | 3 | 1 | 12 | 56 | | | | 2 | 84 | \$ 3,186.51 | \$ 268,126.44 |
| Task 12 - Future Sewer Separation Plan | 3 | 1 | 28 | 140 | | | | 2 | 234 | \$ 8,756.57 | \$ 2,046,817.38 |
| Task 13 - Meeting With Village Staff | 3 | 3 | 3 | 6 | | | | 1 | 16 | \$ 566.98 | \$ 9,071.68 |
| Task 14 - Report | 4 | 2 | 12 | 42 | | | | 4 | 96 | \$ 3,573.58 | \$ 343,013.28 |
| Task 15 - Meeting With Village Staff | 3 | 3 | 3 | 6 | | | | 1 | 16 | \$ 566.98 | \$ 9,071.68 |
| Subtotal | 37 | 26 | 141 | 611 | 6 | 56 | 176 | 21 | 100.0% | | \$ 399,472.59 |
| Total Cost | \$2,205.57 | \$1,762.28 | \$6,990.12 | \$22,087.65 | \$366.00 | \$1,447.04 | \$6,445.12 | \$531.09 | | | \$399,472.59 |

Subconsultant (Elan Technologies, Inc.) - Install & Maintain 2 - Flow & Water Quality Monitoring Meters for 6 months

| | |
|---------------------|---------------------|
| Multiplier (2.71) = | \$106,970.72 |
| Direct Costs = | \$3,500.00 |
| Subconsultant = | \$26,370.00 |
| Total | \$136,840.72 |

135,840.72

GATZ POND WATERSHED

| ID | Task Name | Duration | Start | End |
|----|--|----------|--------------|--------------|
| 1 | Task 1 - Review of Available Unsteady Flow Hydraulics Models | 10 days | Mon 10/22/07 | Mon 11/5/07 |
| 2 | Task 2 - Meeting with Village Staff | 0 days | Mon 10/22/07 | Mon 10/22/07 |
| 3 | Task 3 - Review of Combined and Storm Sewer Data | 8 days | Mon 11/5/07 | Thu 11/15/07 |
| 4 | Village Review of Field Survey Plan | 5 days | Thu 11/15/07 | Thu 11/22/07 |
| 5 | Task 4 - Field Survey | 7 days | Mon 12/3/07 | Mon 12/24/07 |
| 6 | Task 7 - Flow & Water Quality Monitoring Program | 5 days | Mon 12/3/07 | Mon 12/24/07 |
| 7 | Flow & Water Quality Monitoring (6 months - 2008) | 125 days | Mon 12/24/07 | Mon 12/24/07 |
| 8 | Task 5 - Modeling Level of Detail | 15 days | Mon 12/24/07 | Tue 1/8/08 |
| 9 | Village Review of Modeling Level of Detail Memorandum | 12 days | Tue 1/8/08 | Wed 1/9/08 |
| 10 | Task 6 - Meeting with Village Staff | 0 days | Wed 1/9/08 | Wed 1/9/08 |
| 11 | Task 8 - Hydrologic and Water Quality Parameters | 35 days | Wed 1/9/08 | Wed 2/27/08 |
| 12 | Village Review of Hydraulic Model Preparation | 60 days | Wed 2/27/08 | Wed 5/21/08 |
| 13 | Task 9 - Hydraulic Model Preparation | 11 days | Wed 5/21/08 | Wed 6/4/08 |
| 14 | Task 10 - Meeting with Village Staff | 0 days | Thu 6/5/08 | Thu 6/5/08 |
| 15 | Task 11 - Model Calibration/Verification | 48 days | Thu 6/5/08 | Tue 8/12/08 |
| 16 | Task 12 - Future Sewer Separation Plan | 31 days | Tue 8/12/08 | Wed 9/24/08 |
| 17 | Village Review of Future Sewer Separation Plan | 10 days | Wed 9/24/08 | Tue 10/7/08 |
| 18 | Task 13 - Meeting with Village Staff | 0 days | Tue 10/7/08 | Tue 10/7/08 |
| 19 | Task 14 - Report | 20 days | Wed 10/8/08 | Wed 11/5/08 |
| 20 | Village Review of Report | 10 days | Wed 11/5/08 | Tue 11/18/08 |
| 21 | Task 15 - Meeting with Village Staff | 0 days | Tue 11/18/08 | Tue 11/18/08 |

Project: Stormwater/Combined Sewer
 Date: Wed 10/23/07

Task Spkt

Progress Milestone

Summary Project Summary

External Tasks External Milestones

Deadline

**VILLAGE OF LOMBARD
STORMWATER/COMBINED SEWER MODELING
WORK EFFORT AND FEE STRUCTURE
NAS WATERSHED**

| Task | Project Manager | QA/QC | Engineer IV | Engineer III | Survey Manager | Staff Surveyor | CADD Technician | Administrative | Hours | Rate | Total Cost |
|--|-----------------|------------|-------------|--------------|----------------|----------------|-----------------|----------------|--------|---------|-------------|
| Rate (Average Rate Classification) | | | | | | | | | | | |
| Task 1 - Review of Unsteady Flow Model | 0 | 0 | 0 | 0 | | | | 0 | 0 | \$59.61 | \$0.00 |
| Task 2 - Meeting With Village Staff | 3 | 3 | 3 | 6 | | | | 1 | 16 | \$59.61 | \$953.76 |
| Task 3 - Review of Combined and Storm Sewer Data | 1 | 1 | 2 | 12 | | | | | 18 | \$59.61 | \$1,072.98 |
| Task 4 - Field Survey | 1 | 1 | 4 | 2 | 4 | 14 | | | 32 | \$59.61 | \$1,907.52 |
| Task 5 - Modeling Level of Detail | 0 | 0 | 0 | 0 | | | | 0 | 0 | \$59.61 | \$0.00 |
| Task 6 - Meeting With Village Staff | 0 | 0 | 0 | 0 | | | | 0 | 0 | \$59.61 | \$0.00 |
| Task 7 - Flow and Water Quality Monitoring Program | 1 | 1 | 8 | 12 | | | | | 24 | \$59.61 | \$1,430.64 |
| Task 8 - Hydraulic and Water Quality Parameters | 2 | 1 | 8 | 36 | | | | | 59 | \$59.61 | \$3,511.39 |
| Task 9 - Hydraulic Model Preparation | 2 | 1 | 8 | 60 | | | | | 85 | \$59.61 | \$5,066.55 |
| Task 10 - Meeting With Village Staff | 3 | 3 | 3 | 6 | | | | 1 | 16 | \$59.61 | \$953.76 |
| Task 11 - Model Calibration/Verification | 2 | 1 | 4 | 24 | | | | | 35 | \$59.61 | \$2,086.75 |
| Task 12 - Future Sewer Separation Plan | 2 | 1 | 12 | 60 | | | | 2 | 95 | \$59.61 | \$5,662.95 |
| Task 13 - Meeting With Village Staff | 3 | 3 | 3 | 6 | | | | 2 | 16 | \$59.61 | \$953.76 |
| Task 14 - Report | 4 | 2 | 4 | 22 | | | | 4 | 68 | \$59.61 | \$4,059.68 |
| Task 15 - Meeting With Village Staff | 3 | 3 | 3 | 6 | | | | 1 | 16 | \$59.61 | \$953.76 |
| Subtotal | 27 | 21 | 62 | 252 | 4 | 14 | 88 | 12 | 100.0% | \$59.61 | \$5,960.91 |
| Total Cost | \$1,609.47 | \$1,423.38 | \$2,809.84 | \$9,109.80 | \$244.00 | \$361.76 | \$3,222.86 | \$303.48 | | | \$17,660.91 |
| Multiplier (2.71) = | | | | | | | | | | | \$47,961.07 |
| Direct Costs = | | | | | | | | | | | \$1,500.00 |
| Subcontractant ¹ = | | | | | | | | | | | \$12,685.00 |

¹ Subcontractant (Elan Technologies, Inc.) - Install & Maintain 1 - Flow & Water Quality Monitoring Meters for 6 months



GAZZ POND
WATERSHED
STUDY AREA

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CHIBIOPHEN & BURKE ENGINEERING CO.
 3535 WEST HIGHWAY 100, SUITE 500
 RICHMOND, VIRGINIA 23234
 804-772-7500
 804-772-7500
 804-772-7500