

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 Hulseberg, Village Manager

DATE: September 7, 2011 (COW) (B of T) **Date:** September 15, 2011

TITLE: Construction Material Testing
Great Western Trail Bridges
Seeco Consultants

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

BACKGROUND/POLICY IMPLICATIONS:

A contract with with SEECO Consultants, Inc. for the provision of professional services related to construction materials inspection and testing for the Great Western Trail Bridges project.

FISCAL IMPACT/FUNDING SOURCE:

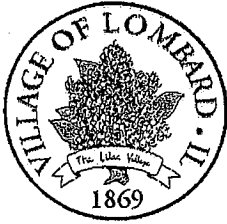
Total \$131,047.00
TIF Capital Projects Fund, Grade Crossing Protection Fund

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
Through: Carl Goldsmith, Director of Public Works
From: David A. Dratnol, P.E., Village Engineer
Date: September 7, 2011
Subject: Construction Material Testing
Great Western Trails Bridges
Seeco Consultants

Attached is a contract and resolution for an agreement with Seeco Consultants (SEECO) of Tinley Park in the amount of \$131,047.00. SEECO is one of three firms that are currently under contract to provide Geotechnical Engineering, Construction Material Testing and Environmental Engineering services to the Village of Lombard.

Proposals were sought by all three firms on the short list for Construction Material Testing (CMT) for the Great Western Trails Bridges project. SEECO was judged as the "most qualified" firm to perform the work.

The Great Western Trail Bridges project CMT budget was not included in the annual CMT budget for any one firm; however, the Village has budgeted funds for the CMT in the project and part of the funding will be reimbursed by the Grade Crossing Protection Fund. The Great Western Trails Bridges CMT budget exceeds the yearly budget by approximately 125% for all the other CIP projects combined. A state statute limits the amount of an increase to a contract to 50% of the original amount. Therefore a separate contract will be issued to SEECO for CMT for the Great Western Trail Bridges project.

Please present this item to the President and the Board of Trustees for their review and approval at the next regular meeting on September 15, 2011. Upon approval, please return all paperwork to the Engineering Division for further processing.

DAD/PFK

RESOLUTION
R _____ 12

A RESOLUTION AUTHORIZING AN AGREEMENT
Great Western Trail Bridges – Construction Material Testing

WHEREAS, the Corporate Authorities of the Village of Lombard have received a proposed Agreement between the Village of Lombard and SEECO Consultants, Inc. regarding the Great Western Trail Bridges – Construction Material Testing as attached hereto, marked Exhibit "A" and made part hereof (the "Agreement"); and

WHEREAS, the Corporate Authorities deem it to be in the best interests of the Village of Lombard to approve said 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 Agreement attached hereto as Exhibit "A" is hereby approved.

SECTION 2: That the Village President and the Village Clerk be and hereby are authorized and directed to execute the Agreement attached hereto as Exhibit "A", as well as any and all other documents necessary to carry out the provisions of said Agreement.

Adopted this 15th day of September, 2011, pursuant to a roll call vote as follows:

Ayes: _____

Nays: _____

Absent: _____

Approved by me this 15th day of September, 2011.

William J. Mueller
Village President

ATTEST:

Brigitte O'Brien
Village Clerk

**VILLAGE OF LOMBARD
CONTRACT**

CONTRACT DOCUMENT NUMBER M-06-03

This agreement is made this 15th day of September 2011, between and shall be binding upon the Village of Lombard, an Illinois Municipal Corporation hereinafter referred to as the "VILLAGE" and Seeco Consultants 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:

Construction Material Testing for the Great Western Trail Bridges Project

1. This contract shall embrace and include all of the applicable contract documents listed below as if attached hereto or repeated herein:

(a) Geotechnical Engineering, Construction Material Testing and Environmental Services Request for Proposal consisting of the following:

- 1) Cover Sheet
- 2) Table of Contents
- 3) General Provisions
- 4) Special Provisions
- 5) Request for Proposal dated January 7, 2011
- 6) Addendum #1, dated February 11, 2011
- 7) ENGINEER's Proposal dated February 18, 2011
- 8) ENGINEER's Proposal dated August 23, 2011

(b) Required Certificates and Signatures and Certificate of Insurance

(c) ENGINEER's Fee Schedule dated March 28, 2011

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 15th day of September 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:

Accepted this _____ day of _____, 2011.

Individual or Partnership _____ Corporation _____

By Position/Title

By Position/Title

SEECO CONSULTANTS, INC.

THE VILLAGE OF LOMBARD, ILLINOIS

Accepted this _____ day of _____, 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)

Seeco Consultants, Inc., having submitted a proposal for:

Geotechnical Engineering, Construction Material Testing and Environmental Services

Contract 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:

Authorized Agent of ENGINEER

Subscribed and sworn to
before me this _____
day of _____, 2011.

Notary Public

Construction Monitoring &
Observations
Construction Materials Testing
Tunnels and Underground Openings
Geotechnical Engineering &
Evaluation

SEECO Consultants Inc.
CONSULTING ENGINEERS

Subsurface Explorations
Foundation Analysis & Design
Structural Rehabilitation
Condition Surveys
Dams and Drainage Studies

August 23, 2011

Mr. Paul Kuehnlenz, P.E.
Village of Lombard
Public Works Building
1051 South Hammerschmidt Avenue
Lombard, Illinois 60148-3926

PROPOSAL CMT-03

Construction Materials Testing Services
Great Western Trail Bridges, Lombard, IL
VoL Project No.M-06-03

Dear Mr. Kuehnlenz:

SEECO Consultants, Inc. is pleased to submit our proposal for the above referenced project. In preparing our proposal, we have reviewed the quantities provided, discussed the project particulars with you and have incorporated the same within.

The proposed improvements to the Great Western Trail include the following:

- Approximately 2,300 total lineal feet of improvements from West of Grace Street to the East/South side of St. Charles Road
- New/Realigned Bituminous Trails
- MSE Retaining Walls
- Earthwork excavation and embankment construction from on and offsite borrow sources
- New bridge structures over Grace St., the Union Pacific Railroad and St. Charles Rd.
- Various incidental items

Work will include subgrade suitability observations and potential undercut determination and verification and density testing for the embankments subgrade and subbase, as well as compaction testing for underground structures and/or utility lines in critical areas, as required. Foundation installation inspection and testing will include bearing verification, type and depth of foundations confirmation and testing of materials as placed. Concrete work will include QA testing for curb and gutter, sidewalk, and bridge structure improvements with all testing performed in accordance with IDOT criteria. The placement of Hot Mix Asphalt will involve surface course paving for the Trail and QA services will include on-site density verification and temperature control and workmanship observations as well as plant mix verifications. Laboratory testing may include standard proctor tests, compressive strength tests on concrete cylinders and bituminous core density. Additional testing, including grain size distribution and organic content may be required to verify subgrade suitability.

Although contaminated soils are not anticipated (no pay items are listed), there remains the possibility of contaminated soils being encountered during construction. If contaminated soils are encountered and the Village requests oversight, SEECO will provide an environmental professional as needed. SEECO's involvement would include review of the contractor's work for compliance with IEPA guidelines and looking out for the Village's interests.

If needed during construction for offsite disposal of construction excavation spoils and debris, representative soil samples can be collected and field screened for the presence of volatile organic vapors using a photo ionization detector (PID). Visual and olfactory senses will also be used to screen the soil samples for the presence of contaminants. If no samples display an elevated PID reading, then the soil will be assumed to be, to the best of our knowledge, clean, uncontaminated fill material. This information can be documented on the IEPA LPC-663 form. If samples collected and screened display an elevated PID reading, then the representative soil samples determined by field observations to be the most conducive

PROPOSAL CMT-03

Construction Materials Testing Services
Great Western Trail Bridges, Lombard, IL
Vol Project No. M-06-03

August 23, 2011
Page 2

to transmitting potential contamination will be analyzed for TACO Tier 1 at an independent IEPA approved laboratory. If chemical analysis results indicate no contamination above TACO Tier 1 objectives, then the soil will be assumed to be, to the best of our knowledge, clean, uncontaminated fill material. This information will be documented on the IEPA LPC-663 form. If test results indicate that the soils are contaminated above said objectives, we will consult with you regarding alternate means of disposal. Screening or pre-screening of samples at job site is no guarantee that landfill facility will accept/not reject materials. Nor is it a determination that the site is entirely clean of contaminants per IEPA standards. Preparation of LPC 663 Forms and performance of environmental chemical analysis is no guarantee that material will be accepted by landfills or CCDD facilities. Landfill acceptance chemical testing is not included.

ANTICIPATED TESTING SERVICES REQUIRED BY LOCATION

Sta. 10+00 to Sta. 13+55

Trail

- Bituminous Testing
- Base Course Compaction
- Subgrade Suitability/Undercut Verification
- Embankment Materials Compaction

Sta. 13+55 to Sta. 14+54 – Bridge over Grace St.

GRS Wall

- Observations and backfill testing

Aggregate Column Foundations

- Depth and diameter verification
- Backfill compaction verification
- Bearing Verification

Bridge Structure

Concrete plant and field inspection and testing

Sidewalk and Curb and Gutter

Concrete plant and field inspection and testing

Sta. 14+54 to Sta. 20+63 – Trail & MSE Wall

Trail –

- Bituminous testing
- Base course compaction
- Subgrade suitability/undercut verification
- Embankment verification/compaction

PROPOSAL CMT-03

Construction Materials Testing Services
Great Western Trail Bridges, Lombard, IL
Vol Project No. M-06-03

August 23, 2011
Page 3

MSE Wall –

- Verification of bearing elevation soils
- Monitoring of undercuts if necessary
- Compaction testing of backfill

Sta. 20+63 to Sta. 22+09 – Bridge over UPRR

Bridge Structure

- Concrete plant and field inspection and testing

H Pile Foundations

- Verification of pile types and lengths
- Verification of driven lengths and blows

MSE Wall –

- Verification of bearing elevation soils
- Monitoring of undercuts if necessary
- Compaction testing of backfill

Sta. 22+09 to Sta. 24+32 – Trail & MSE Wall

Trail –

- Bituminous testing
- Base course compaction
- Subgrade suitability/undercut verification
- Embankment verification/compaction

MSE Wall –

- Verification of bearing elevation
- Monitoring of undercuts if necessary
- Compaction testing of backfill

PROPOSAL CMT-03

Construction Materials Testing Services
Great Western Trail Bridges, Lombard, IL
Vol Project No. M-06-03

August 23, 2011
Page 4

Sta. 24+32 to Sta. 25+32 – Bridge over St. Charles Road

Bridge Structure

-Concrete plant and field inspection and testing

H Pile Foundations

-Verification of pile types and lengths
-Verification of driven lengths and blows

MSE Wall –

-Verification of bearing elevation
-Monitoring of undercuts if necessary
-Compaction testing of backfill

Sidewalk and Curb and Gutter

Concrete plant and field inspection and testing

Sta. 25+43 to Sta. 33+00 – Trail & MSE Wall

Trail –

-Bituminous testing
-Base course compaction
-Subgrade suitability/undercut verification
-Embankment verification/compaction

MSE Wall –

-Verification of bearing elevation
-Monitoring of undercuts if necessary
-Compaction testing of backfill

PROPOSAL CMT-03

Construction Materials Testing Services
Great Western Trail Bridges, Lombard, IL
Vol Project No. M-06-03

August 23, 2011
Page 5

The estimated sequencing is as follows:

<u>Concrete</u>	-	Bridge Structures	-	20 Placements
		Sidewalks	-	2 Placements
		Curb and Gutter	-	7 Placements
<u>Bituminous</u>	-	Surface	-	2 Placements
<u>Soils and Backfill</u>	-	Sheet Piles	-	By R.E.
		Pile Foundations	-	By R.E.
		Aggregate Columns	-	3 Design Reviews 10 Installation Days
		GRS Abutments	-	8 Installation Days
		MSE Walls	-	30 Days
		Embankment	-	40 Days
		Undercuts	-	7 Days
		Structure Excavations	-	7 Days
		Subgrade/Sub-base	-	4 Trips
<u>Environmental</u>	-			If needed/if required

UNIT PRICE PROPOSAL

Portland Cement Concrete

Plant and Field Inspection – PCC Level II Estimate 164 hours @ \$103.50/hr	\$16,974.00
Concrete Cylinder Tests Estimate 116 cylinders @\$20.00/cyl	\$ 2,320.00
Cylinder Pickup Estimate 30 hours @ \$89.00/hr	\$ 2,670.00

PROPOSAL CMT-03

Construction Materials Testing Services
Great Western Trail Bridges, Lombard, IL
Vol Project No. M-06-03

August 23, 2011
Page 6

Bituminous Paving

Plant and Field Inspection – Bituminous Level II Estimate .16 hours @ \$103.50/hr	\$ 1,656.00
Nuclear Gauge Estimate 2 days @ \$63.00/day	\$ 126.00
Extraction/Gradation Estimate 1 tests @ \$155.00/test	\$ 155.00

Soils

Field Engineer Estimate 320 hours @ \$103.50/hr	\$33,120.00
Senior Technician Estimate 496 hours @ \$103.50/hr	\$51,336.00
Nuclear Gauge Estimate 62 days @ \$63.00/day	\$ 3,906.00
Cone Penetrometer Estimate 12 days @ \$60.00/day	\$ 720.00
Standard Proctor Test Estimate 4 tests @ \$175.00/test	\$ 700.00
Combined Sieve/Hydrometer Test Estimate 4 tests @ \$155.00/test	\$ 620.00
Washed Sieve Analysis Estimate 4 tests @ \$105.00/test	\$ 420.00
Project Geotech Engineer Estimate 32 hours @ \$120.00/hr	\$ 3,840.00
Senior Geotech Engineer Estimate 8 hours @ \$140.00/hr	\$ 1,120.00

Administration and Review

Project Engineer Estimate 80 hours @ \$120.00/hr	\$ 9,600.00
Technical Typist Estimate 36 hours @ \$49.00/hr	\$ 1,764.00

PROPOSAL CMT-03

Construction Materials Testing Services
Great Western Trail Bridges, Lombard, IL
Vol Project No. M-06-03

August 23, 2011
Page 7

Environmental Services

Environmental Geologist Estimate 0 hours @ \$99.00/hr	\$ - 0 -
Photo-ionization Detector Estimate 0 days @ \$ 75.00/day	\$ - 0 -
Project Engineer Estimate 0 hours @ \$120.00/hr	\$ - 0 -
Technical Typist Estimate 0 hours @ \$49.00/hr	<u>\$ - 0 -</u>

ESTIMATED PROJECT TOTAL: \$131,047.00

All terms and rates are as stated in our contract.

If there are any questions with regards to this proposal, I would be glad to discuss them with you. We are very interested in providing you with our services on this project and assure you of our utmost cooperation.

Respectfully submitted,

SEECO Consultants, Inc.



Donald C. Cassier
Director of Field Services



Collin W. Gray, S.E., P.E.
President