

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: May 29, 2012 (COW) (B of T) **Date:** June 7, 2012

TITLE: Great Western Trail Pedestrian Bridges (over Grace St, UP Railroad, & St Charles Rd)
Design Engineering Contract Amendment #3

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

BACKGROUND/POLICY IMPLICATIONS:

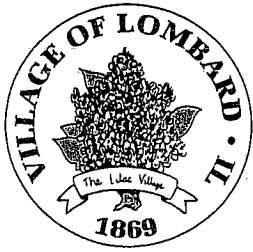
Amend Design Contract to reflect changes in scope due to the need to modify the plans resulting from a conflict with the actual location of the DuPage Water Commission watermain. It was necessary to shift the bridge over the UPRR 11 feet to the east. These changes result in an increase to the Phase II Engineering costs.

FISCAL IMPACT/FUNDING SOURCE:

Amendment Amount: \$37,951.90
Total Amended Contract Amount: \$863,951.94
HTE Project Number: 0603 HTE Acct: 7110.809425
Public Works Project Number: M-06-03
P.O. #: 054757

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.



To: David A. Hulseberg, Village Manager
 Through: Carl Goldsmith, Director of Public Works *CSG by DAD*
 From: David A. Dratnol, P.E., Village Engineer *DAD*
 Date: May 29, 2012
 Subject: Great Western Trail Pedestrian Bridges
 over Grace St, UPRR, & St. Charles Road
 Contract Amendment #3 for Design Engineering

Attached please find the third amendment to the contract with Bollinger, Lach & Associates, Inc. (BLA) for design engineering services for the Great Western Trail Bridges in the amount of an increase to the contract of \$37,951.90.

The attached request includes a detailed itemization of the need for amendment. The DuPage Water Commission transmission watermain which is located in close proximity to the proposed trail was recently exposed by the bridge contractor to verify the exact location of the watermain prior to construction of the various required elements of the bridge. The watermain was found to be 5 feet closer to the proposed structure than anticipated. The design location of the structure was already at the minimum clearance from the watermain and thus it is necessary to move the retaining walls and bridge over the UPRR 5 feet east. In order to move the bridge 5 feet east, the structure needs to be shifted 11 feet parallel to the railroad which is on a skew with the trail. This required BLA to modify the alignment which results in minimal changes to the quantities and actual construction costs, but requires revision of the plan documents for the contractor to build it. The Village contends that the as-built plans provided by the DuPage Water Commission were in error beyond a normal tolerance of utility locations and will be seeking compensation from them for the redesign.

The current contract for design engineering services is \$826,000.04. The amended contract amount will be \$863,951.94.

Please present this Contract Amendment to the President and Board of Trustees at their regular meeting of June 7, 2012. If approved, please return two signed originals to Public Works-Engineering for further processing.

DAD/pk

RESOLUTION
R _____ 13

A RESOLUTION AUTHORIZING AN AMENDMENT TO A PROFESSIONAL SERVICES CONTRACT 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 amendment 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 amendment to the contract between the Village of Lombard and Bollinger, Lach & Associates, Inc. regarding the Great Western Trail Bridges project, as attached hereto as Exhibit "A" and made part hereof, (the "Amendment") to the Corporate Authorities of the Village of Lombard; and

WHEREAS, said Amendment attached hereto as Exhibit "A" would increase the dollar amount of the contract by \$37,951.90;

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 Amendment attached hereto as Exhibit "A", the President and Board of Trustees find as follows:

- A. That the circumstances which necessitated said Amendment were not reasonably foreseeable at the time the contract was entered into.
- B. That the basis of the Amendment 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 Amendment 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 Amendment, bidding is hereby specifically waived as to the Amendment work.

SECTION 2: That having made the findings set forth in Section 1 above, the President and Board of Trustees hereby approve the Amendment attached hereto as Exhibit "A", and direct and authorize the Village President and Village Clerk to execute said Amendment on behalf of the Village.

Adopted this 7th day of June, 2012, pursuant to a roll call vote as follows:

Ayes: _____

Nays: _____

Absent: _____

Approved by me this 7th day of June, 2012.

William J. Mueller
Village President

ATTEST:

Brigitte O'Brien
Village Clerk

AGREEMENT TO AMEND A CONTRACT

THIS AGREEMENT made and entered into this 7th of June, 2012, by and between the **VILLAGE OF LOMBARD** (the "VILLAGE") and **BOLLINGER, LACH & ASSOCIATES, INC.** (the "CONSULTANT").

WHEREAS, on April 06, 2006 the VILLAGE and CONSULTANT executed a contract regarding certain engineering services relative to the Great Western Trail Pedestrian Bridges Design Contract; and

WHEREAS, the VILLAGE and CONSULTANT have agreed to increase the amount of work to be performed by the CONSULTANT together with a resultant increase in the limit which the contract sum may not exceed;

NOW, THEREFORE, for and in consideration of the foregoing and various covenants in said agreement and the mutual covenants herein contained, it is agreed by and between the parties as follows:

SECTION 1: The aforementioned contract shall be amended to expand the scope of work as provided for in the CONSULTANT'S proposal dated May 29, 2012.

SECTION 2: The aforementioned contract shall be amended to show a contract sum not to exceed \$863,951.94.

SECTION 3: All other terms, covenants and conditions of said contract heretofore executed which are not amended or deleted herein shall remain in full force and effect.

IN WITNESS WHEREOF, the VILLAGE and CONSULTANT have caused this document to be signed by duly authorized officers who have set their hands and seals the day and year set forth above.

VILLAGE OF LOMBARD

By: _____
Village President

ATTEST:

By: _____
Village Clerk

and **BOLLINGER, LACH & ASSOCIATES, INC.**

By: _____

ATTEST:

By: _____



May 29, 2012

Mr. David A. Dratnol, P.E.
Village Engineer
Village of Lombard
255 E. Wilson Avenue
Lombard, Illinois 60148-3931

Re: Great Western Trail (GWT)
Subject: Phase II
Contract Amendment No. 3
Trail Realignment for DPWC Conflict

Dear Mr. Dratnol:

D Construction recently field-located the DuPage Water Commission's (DPWC) 54 inch water main by potholing. The as-built location of the main is not per plan and has made it necessary to relocate and redesign a portion of the GWT to provide the required five foot horizontal clearance between the water main and trail structures, near the east abutment of UPRR bridge. The main was previously shown on the plans based on field survey of water main manholes along with DPWC as-built plans, but the constructed main drifted north between manholes during its construction.

In a meeting with Village and County staff on May 16th, 2012 it was agreed that the most expedient alternative was to shift the location of the UPRR bridge and associated walls away from main. The required plan changes extend from west of the UPRR bridge up to just east of the St Charles Road Bridge. The tasks and items required for this revision include: development of trail realignment alternatives and exhibits, revisions to the plat of highways, revisions to the plans, quantities and cost estimate. A detailed discussion of the scope changes for these items and associated hours is attached.

These changes were unanticipated and are due to a change in field conditions; all tasks and changes in scope are a necessary part of the project and cannot be absorbed by the remaining budget.

Attached herein is a summary of additional hours to complete the work necessary to complete revisions to the Phase II portion of the contract. We are also presenting our justification for supplemental hours and fees for both the civil and structural rework now required for the project. The total amended contract amount is calculated by taking the total fee required for these additional items, with our current rates, and adding it to the previously amended contract amount (May 2011).

Mr. David A. Dratnol, P.E.
Village of Lombard
May 29, 2012
Page 2

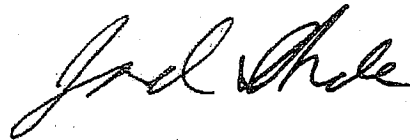
We have attached the following supporting information for your review:

1. Project Fee Summary
2. Listing of Phase II scope changes and hours
3. Narrative of Phase II scope changes
4. Phase II side-by-side comparison of sheets and hours by Civil task
5. Phase II side-by-side hours by Structure
6. Contract Amendment No. 3 CECS & average rates by task

Please contact our office at (630) 438-6400 if you have any questions.

Sincerely,

BOLLINGER, LACH & ASSOCIATES, INC.



Joel Ihde, P.E., S.E.
Vice President

Attachments

cc: Paul Kuehnlentz, P.E.

**Contract Amendment No. 3
May 2012
Project Fee Summary**

Great Western Trail

Phase I Engineering

Original Phase I Fee	\$147,104.48
Amendment No. 1 Fee	<u>\$66,960.06</u>
Total Phase I Fee	\$214,064.54

Phase II Engineering

Original Phase II Fee	\$174,995.20
Amendment No. 1 Fee	\$292,581.30
Amendment No. 2 Fee	\$144,359.00
Amendment No. 3 Fee	<u>\$37,951.90</u>
Total Phase II Fee	\$649,887.40
Total Phase I & II Fee	\$863,951.94

Contract Amendment No. 3
May 2012
Phase II List with Scope Changes & Hours (Summary)

Great Western Trail
Trail Realignment for DPWC Main

Below are the change in scope items and the associated hours for the work. The following pages contain a narrative with more detailed discussion of the change in scope and also a breakdown of the hours and fee for each item by discipline.

Trail Realignment for DPWC Main:

Alternatives and Exhibits

BLA is requesting 38 additional hours for this work.

Revise Plat of Highways

BLA is requesting 24 additional hours for this work.

Revise Plans

BLA is requesting 280 additional hours for this work.

Contract Amendment No. 3
May 2012
Narrative of Phase II Scope Changes

Great Western Trail
Trail Realignment for DPWC Main

The following tasks related to the GWT realignment were not included in the original scope of work, or in previous Contract Amendments. These tasks could not have been anticipated at the time that the previous scopes of work were developed. They cannot be absorbed by the existing budget.

Alternatives and Exhibits

It was determined in mid-May 2012 that the proposed UPRR East Abutment structure could not be constructed per plan and still provide the minimum five foot horizontal clearance from the DPWC 54 inch water main. This determination was made after the water main was field-located by the contractor. Three alternative structure modifications and trail realignments were investigated. The alternatives investigated included:

- 1.) Shifting the UPRR bridge northeast (parallel to current alignment) along the tracks until the required clearance was obtained (walls also move in this option, but with minimal redesign),
- 2.) Realigning the trail at the UPRR bridge and redesigning East Abutment MSE walls, sheet piling, tiebacks and deadman anchors,
- 3.) A combination of shifting the UPRR bridge northeast (parallel to current alignment) along the tracks as far as it could go and still stay in the permanent easement along with partial redesign of the East Abutment MSE walls, sheet piling, tiebacks and deadman anchors.

The three alternatives were presented in a meeting at the Resident Engineer's (RE) office on May 16th. In attendance were the Resident Engineer and representatives from: the Village of Lombard, DuPage County Department of Highways and Bollinger, Lach and Associates. It was agreed that the most expedient alternative was to shift the location of the UPRR bridge away from main (Alternative 1).

This alternative requires the UPRR to agree to an amendment to the Plat of Highways for change in location of the air rights over the UPRR. The UPRR has already indicated in an email and verbal discussion with Keith Sargent (Thomas Engineering) that they will concur with the amendment.

BLA is requesting 38 additional hours for this work.

Revise Plat of Highways

There are two stages to the plat revision. In the first stage, exhibits and preliminary plat revisions were prepared. These were transmitted to the UPRR for purpose of indicating the extent of the changes that would be required to the Plat of Highways. In the second stage, final revised Plat of Highways will be prepared and submitted to the UPRR. The legal description will also be changed to reflect the revised location.

BLA is requesting 24 additional hours for this work.

Revise Plans

There are two stages of plan revisions. The first followed the meeting at the RE's office and included revising sheets as exhibits to determine the extent of revisions that will be required for the trail and structures. These revised plans were transmitted to the RE, Village and subsequently to the contractor. In the second stage final revisions required for all plan sheets will be prepared and submitted for the contractor's use. This work will include revised contract quantities.

No new sheets will be added.

BLA is requesting 280 additional hours for this work.

**Summary
Sheets & Manhours by Civil Task**

**Phase II
Bollinger, Lach & Associates, Inc.**

* Revisions for DPWC trail realignment

Thru May 2011 Amendment

May 2012 Add'l Hours *

Item	Sheets	2009 MH	2011 MH	
Cover Sheet	1	16	16	
Typical Section	1	30	36	4
Alignment & Ties, Benchmarks	2	48	50	12
Notes, Index, List of Standards	1	24	29	
Summary of Quantities	2	64	80	14
Schedule of Quantities	1	24	32	12
Base Sheets	3	60	73	14
Access Plan				8
Existing Conditions & Removals				6
Roadway Plan & Profile	3	75	83	12
Drainage Plan & Profile	3	75	85	8
Special Provisions	-	40	58	
Cost Estimate	-	36	50	6
Misc. IDOT Details	6	12	12	
Local Details (Consultant)	2	16	16	
Pavement Marking & Signing	1	16	16	
Lighting				4
Landscaping	2	40	48	6
Erosion Control	2	40	40	6
Meetings	-	80	100	6
Drainage Calculations	1	60	60	
Village of Lombard Drainage Submittal	1	80	96	
Cross Sections (30 full @ 3.5 MH/xsec.)*	1	105	153	24
Permits (Railroad, NPDES, NOI, KDSC)	1	80	140	
Utility Coordination, Permits, Conflicts	1	40	80	
Soil Profile and Coordination	1	8	8	
QA/QC @ 40 MH/Submittal	-	120	128	
Supplemental Survey		70	110	
Phase III Coordination		40	58	
Phase III Shop Drawing Review		162	194	
Administration		176	190	10
Subtotal		1,637	2,041	
Structural (Bridge & Retaining Walls)	98	2,949		
TOTAL	134	4,586		152

April 2011 Add'l Sheets	Sheets	
Form Liner & Village Logo	3	90
Pond Expansion (2)	5	72
Bridge Railing Enhancements	0	56
DPWC Walls	5	544
GRS-IBS Grace Street Abutments	5	391
2011 Civil Total		3,194
2011 Structural (Bridge & Retaining Walls)		3,974
2011 Grand Total		7,168

May 2012 Additional Tasks for DPWC Trail Realignment

Evaluate Alternatives and Prepare Exhibits	38
Revise Plat of Highways for UPRR	24
2012 Civil Total	214
2012 Structural Total	128
May 2012 Amendment Total	342

Manhour Summary by Structure

Phase II Great Western Trail

Thru May 2011 Amendment	May 2012 Add'l Hours *		
Structural Design Tasks	2009 MH	2011 MH	
Grace Street Bridge	683	1,054	-
Grace Street MSE Wall Abutments	251	313	-
UPRR Bridge	703	914	18
UPRR MSE Wall Abutments	299	403	56
St. Charles Road Bridge	547	792	16
St. Charles Road MSE Wall Abutments	239	259	-
North MSE Wall	131	143	38
Project Tasks	96	96	-
Total Structural Tasks	2,949	3,974	128
Civil Tasks (Nonstructural) & Phase III Tasks	1,637	3,194	214
Total Hours	4,586	7,168	342

* Revisions to General Plans, Total Bill, Wall Plan Views and Wall Elevations for DPWC trail realignment



Average Hourly Project Rates

Route Great Western Trail
 Section Phase II
 County DuPage
 Job No. _____
 PTB/Item n/a

Consultant Bollinger, Lach & Associates, Inc.

Date 05/29/12

Sheet 1 OF 1

Payroll Classification	Avg Hourly Rates	Total Project Rates			Alternatives & Exhibits			Revise Plat of Highways			Revise Plans			Hours	% Part.	Wgtd Avg			
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg						
Director of Structural Eng	\$58.85	92	26.90%	15.83	12	31.58%	18.58	2	8.33%	4.90	78	27.86%	16.39						
Project Manager	\$45.12	108	31.58%	14.25	10	26.32%	11.87	2	8.33%	3.76	96	34.29%	15.47						
Project Engineer	\$33.35	48	14.04%	4.68							48	17.14%	5.72						
Principal	\$70.00	4	1.17%	0.82							4	1.43%	1.00						
CADD Tech II	\$32.12	70	20.47%	6.57	12	31.58%	10.14	4	16.67%	5.35	54	19.29%	6.19						
Survey Project Manager	\$38.22	20	5.85%	2.24	4	10.53%	4.02	16	66.67%	25.48									
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TOTALS		342	100%	\$44.39	38	100%	\$44.62	24	100%	\$39.50	280	100%	\$44.78	0	0%	\$0.00	0	0%	\$0.00



**Illinois Department
of Transportation**

Payroll Rates

FIRM NAME Bollinger, Lach & Associates, In **DATE** 05/29/12
PRIME/SUPPLEMENT Supplement
PTB NO. n/a

ESCALATION FACTOR **0.00%**

CLASSIFICATION	CURRENT RATE	ESCALATED RATE
Director of Structural Eng	\$58.85	\$58.85
Project Manager	\$45.12	\$45.12
Project Engineer	\$33.35	\$33.35
Principal	\$70.00	\$70.00
CADD Tech II	\$32.12	\$32.12
Survey Project Manager	\$38.22	\$38.22
		\$0.00
		\$0.00
		\$0.00
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