

Quentin Road from White Pine Road to IL Route 22
LCDOT Change Order No. 2

TO: Public Works and Transportation Committee
Financial Administrative Committee

FROM: 
Martin G. Buehler, P.E.
County Engineer

Committee Action Meeting Date

DATE: April 4, 2012

DATE: April 4, 2012

SUBJECT: Change Order No. 2
Section No. 08-00090-12-ES

Joint Committee action item approving Change Order No. 2 Consisting of an increase of \$82,740.00 for additions to the Quentin Road Phase I from White Pine Road to IL Route 22, Engineering Services, designated as Section No.08-000-90-12-ES.

- Quentin Road from White Pine Road to IL Route 22, Phase I Engineering: LCDOT Change Order No. 2.
- Change Orders need to be approved by the standing committees for cumulative net increases over 10%.
- The Quentin Road project is under contract with Civiltech Engineering, in the amount of \$702,608.00.
- Additional engineering services are being requested for several revisions to the original scope of work as detailed in the attached Supplement No 2..

Summary:

Original awarded contract:	\$683,383.00
Change Order No. 1:	\$ 19,225.00
Change Order No. 2:	\$ 82,740.00
Sum of all changes:	\$101,965.00

ILLINOIS DEPARTMENT OF TRANSPORTATION

Request for Approval
of Change in Consultant Contract

Date: 03/22/2012

Local Agency: LAKE COUNTY

Request: No. 2

Name: Quentin Road from IL Rt. 22 to White Pine Road Phase I

To: Lake County Division of Transportation

Section: 08-00090-12-ES

Consultant: Civiltech Engineering

I recommend that an addition be made to the above consultant contract.

The estimated work is listed below

Original contract amount for services described:	\$683,383.00
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Sum of all previous contract change orders:	\$19,225.00
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Item #	Description	Additions	Deductions
1	Additional work above and beyond the original scope of work that includes: (1) Preliminary Environmental Site Assessment, (2) Abbreviated EA, (3) Hydraulic Analysis, (4) Highway Noise Analysis.	\$82,740.00	
TOTALS		\$82,740.00	\$0.00
NET CHANGE		\$82,740.00	\$0.00

Net ADDITION change to date \$101,965.00 which is 14.92 % of the original contract amount for services described

State fully the nature and reason for change:

Revised contract amount for services described:	\$785,348.00
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Please see attached.

When the net increase or decrease in the cost of the contract is \$10,000 or more, or the time of completion is increased or decreased by 30 days or more, one of the following statements shall be checked.

The undersigned determined that the circumstances which necessitated this change were not reasonably foreseeable at the time the contract was signed.

XXX The undersigned determined that the circumstances which necessitated this change were not within the contemplation of the contract as signed.

The undersigned determined that this change is in the best interest of the local agency and is authorized by law.

Project Engineer [Signature] Date 3-27-12

Engineer of Design Paula Tunge Date 3-27-12

Approved [Signature] Date 3-27-12
County Engineer

Letter of Transmittal

To: Mr. Chuck Gleason
Lake County Division of Transportation
600 W. Winchester Road
Libertyville, IL 60048

Date: January 20, 2012

Re: Quentin Road Phase I Study
U.S. Route 12 to IL Route 22
Section No. 08-00090-12-ES

Job #: 2232

Enclosed Messenger Pick up Airborne

We are forwarding to you the items below relative to subject project:

COPIES	DATE	DESCRIPTION
1	01/20/2012	Supplement #2

Purpose:

As Requested Your Information Distribution Correction
 Approval Review & Comment

Remarks:

Chuck,
As previously discussed, additional work above and beyond the original scope of work is required to complete the Phase I Study for Quentin Road. The additional items of work include the following:

1. Preliminary Environmental Site Assessment
2. Abbreviated Environmental Assessment
3. Hydraulic Analysis
4. Highway Noise Analysis

Since the noise meetings with the residents have been held we have developed Supplement #2 based on actual hours spent to complete the highway noise analysis. Attached please find a detailed Scope of Services, Workhour Estimate, and a Cost Estimate of Consultant Services associated with this extra work. We estimate that this extra work will result in a fee of \$82,740. Please review and let us know if you need any additional information in order to process a supplemental agreement for this project.



ATTACHMENT A

**Scope of Services, Cost Estimate of Consultant Services,
Work Hours & Direct Costs**

Quentin Road Phase I Study
U.S. Route 12 to IL Route 22
Lake County Division of Transportation

**SCOPE OF SERVICES
SUPPLEMENT #2**

When the engineering agreement for the Quentin Road Phase I Study was first prepared, it was necessary to make several assumptions regarding the scope of work that would be required to reach public consensus and agency approval. During the course of the project, a number of events have occurred that have changed the scope and/or magnitude of the study.

Item 1 - Preliminary Environmental Site Assessment - IDOT policies have changed since the initial contract in regards to the analysis of special waste. A much more detailed analysis needs to occur during Phase I Engineering requiring a specialty consultant firm to conduct investigations for special waste studies. The Preliminary Environmental Site Assessment (PESA) report will be prepared by a subconsultant, Cardno ENTRIX and a copy of their detailed proposal is included in Appendix B.

Item 2 - Abbreviated Environmental Assessment - It was originally assumed that an *Environmental Class of Action Determination* (ECAD) journal would be prepared to ascertain the appropriate level of environmental processing for the project. Based on new processing requirements by IDOT and FHWA, this project is now required to follow the *Abbreviated Environmental Assessment* (EA) process. While this is similar in some respects to the ECAD journal, the Abbreviated EA process includes much more detailed information and requires the preparation of a full report. Ultimately, it is still anticipated that a *Project Development Report* (PDR) will still need to be prepared. Following are the specific tasks that will be completed for the Abbreviated EA:

- a. Preparation of text for report.
- b. Preparation of exhibits necessary to support report text.
- c. Submittal of draft EA.
- d. Revisions to EA based on agency comments.
- e. Submittal of final EA.

Item 3 - Hydraulic Analysis - It was originally assumed that the existing box culvert underneath Quentin Road just south of IL Route 22 was wide enough to accommodate five 12-foot lanes with a separate bike path. However due to the addition of the proposed sidewalk on the west side of Quentin Road as well as wider bicycle-friendly outside lanes on Quentin Road, the box culvert under Quentin Road will now need to be lengthened. Based on IDOT requirements the preparation of a hydraulic report and the BLR Form 10210 will be necessary. This box culvert was recently built as part of the IL Route 22 widening project. It is anticipated that the original hydraulic analysis will be able to be modified and updated for the proposed conditions instead of providing additional survey and a new hydraulic analysis. The hydraulic analysis will be prepared by a subconsultant, Teng & Associates and a copy of their detailed proposal is included in Appendix C.

Item 4 - Highway Noise Analysis - The Federal regulations pertaining to the analysis and abatement of highway traffic noise on Federal-aid highway projects have recently been amended. The Illinois Department of Transportation has updated its noise analysis policy accordingly, effective June 29, 2011. All Federal-aid projects which have not received environmental document approval (i.e., CE-II concurrence) by this date must comply with the revised Federal regulations and State policy. Following are the specific tasks that were completed for each of the Noise meetings:

- a. Re-evaluate Common Noise Environments (CNE's) and Representative Receptors.
- b. Perform noise monitoring at 12 locations.
- c. Update the Existing Conditions Traffic Noise Model.
- d. Validate Existing Conditions Traffic Noise Model.
- e. Update the No-Action and Build conditions models with 2040 traffic volumes.
- f. Update the No-Action and Build conditions models to account for new CNE's and receptors.
- g. Re-evaluate the feasibility of noise barriers where impacts are predicted.
- h. Re-evaluate the reasonableness of barriers deemed feasible.
- i. Prepare and mail letters requesting viewpoints of residents benefitted by feasible and cost-reasonable noise barriers.
- j. Prepare exhibits, handouts, & PowerPoint presentation for 3 separate noise meetings.
- k. Attend 3 separate noise meetings.
- l. Compile and summarize viewpoints from 3 meetings.
- m. Transmit noise analysis results to local officials.
- n. Update and expand Technical Memorandum text, tables, and exhibits.

Quentin Road Phase I
 U.S. Route 12 to IL Route 22
 Lake County Division of Transportation

**COST ESTIMATE OF CONSULTANT SERVICES
 PHASE I ENGINEERING
 SUPPLEMENT #2**

Task	Personnel & Hours						Total Hours	% of Hours	Labor Cost
	Principal in Charge QC/QA	Project Manager	Project Engineer	Design Engineer	Senior Design Tech.	Admin. Asst.			
1 Preliminary Environmental Site Assessment	\$70.00	\$60.00	\$42.00	\$29.00	\$25.00	\$17.00	6	1.4%	\$ 252
2 Abbreviated Environmental Assessment	8	42	18	12	32	8	120	27.6%	\$ 5,120
3 Hydraulic Analysis	0	0	8	0	0	0	8	1.8%	\$ 336
4 Highway Noise Analysis	4	28	106	138	20	4	300	69.1%	\$ 10,982
Sub-Total	12	70	138	150	52	12	434		
% of Hours	2.8%	31.8%	34.6%	2.0%	2.8%	2.8%	100.0%		
Total Cost Multiplier*	\$840	\$4,200	\$5,796	\$4,350	\$1,300	\$204			\$16,690
Direct Costs (See Exhibit A-3)	2.79								\$46,565
Subconsultants (See Exhibit A-3)									\$539
									\$18,947
									\$82,740

* Multiplier = (DL + OH + FF)
 DL = Direct Labor
 OH = Overhead = 143.56%
 FF = Fixed Fee = 35.32%
 where FF = 14.5%[DL + OH(DL)]

Quentin Road Phase I Study
 U.S. Route 12 to IL Route 22
 Lake County Division of Transportation

**WORKHOUR ESTIMATE
 PHASE I ENGINEERING
 SUPPLEMENT #2**

Item No.	Task	Personnel & Hours							Total Hours	% of Hours	
		Principal in Charge QC/QA	Project Manager	Project Engineer	Design Engineer	Senior Design Tech.	Admin. Asst.				
1	Preliminary Environmental Site Assessment										
	<i>Preliminary Environmental Site Assessment will be conducted by a subconsultant - Cardno ENTRIX</i>										
	A. Review PESA Report			2						2	33.3%
	B. Coordination with subconsultant			4						4	66.7%
	Sub-total Item 1	0	0	6	0	0	0	0	0	6	100.0%
2	Abbreviated Environmental Assessment										
	A. Prepare additional exhibits for EA		2	2	4	16				24	20.0%
	B. Prepare additional text for EA	4	24	8	4					40	33.3%
	C. Submit Draft EA						4			4	3.3%
	D. Revise EA	4	16	8	4	16				48	40.0%
	E. Submit Final EA						4			4	3.3%
	Sub-total Item 2	8	42	18	12	32	8	0	0	120	100.0%
3	Hydraulic Analysis										
	<i>Hydraulic Analysis will be conducted by a subconsultant - Teng & Associates</i>										
	A. Review Hydraulic Report			2						2	25.0%
	B. Coordination with subconsultant			4						4	50.0%
	C. Prepare BLR 10210			2						2	25.0%
	Sub-total Item 3	0	0	8	0	0	0	0	0	8	100.0%
4	Highway Noise Analysis										
	A. Re-evaluate Common Noise Environments (CNE's) and Representative Receptors.			2	2					4	1.3%
	B. Perform noise monitoring at 12 locations.			8	28					36	12.0%

Quentin Road Phase I Study
 U.S. Route 12 to IL Route 22
 Lake County Division of Transportation

**WORKHOUR ESTIMATE
 PHASE I ENGINEERING
 SUPPLEMENT #2**

Item No.	Task	Personnel & Hours							Total Hours	% of Hours
		Principal in Charge QC/QA	Project Manager	Project Engineer	Design Engineer	Senior Design Tech.	Admin. Asst.			
C.	Update the Existing Conditions Traffic Noise Model.			2	4				6	2.0%
D.	Validate Existing Conditions Traffic Noise Model.			2	8				10	3.3%
E.	Update the No-Action and Build conditions models with 2040 traffic volumes.			2	8				10	3.3%
F.	Update the No-Action and Build conditions models to account for new CNE's and receptors.			2	12				14	4.7%
G.	Re-evaluate the feasibility of noise barriers where impacts are predicted.		2	4	12				18	6.0%
H.	Re-evaluate the reasonableness of barriers deemed feasible.		2	4	8				14	4.7%
I.	Prepare and mail letters requesting viewpoints of residents benefitted by feasible and cost-reasonable noise barriers.		2	4				4	10	3.3%
J.	Prepare exhibits, handouts & PowerPoint presentation for 3 separate noise meetings.	4	4	24	20	16			68	22.7%
K.	Attend 3 separate noise meetings.		16	32	16				64	21.3%
L.	Compile and summarize viewpoints from 3 meetings.			8	8				16	5.3%
M.	Transmit noise analysis results to local officials.			4	4				8	2.7%
N.	Update and expand Technical Memorandum text, tables, and exhibits.		2	8	8	4			22	7.3%
	Sub-total item 4	4	28	106	136	20	4		300	100.0%
Total Hours:		12	70	138	150	52	12		434	
% of Hours:		2.8%	16.1%	31.8%	34.6%	12.0%	2.8%		100.0%	

Quentin Road Phase I Study
 U.S. Route 12 to IL Route 22
 Lake County Division of Transportation

**PHASE I ENGINEERING
 DIRECT COSTS AND SUBCONSULTANT SERVICES
 SUPPLEMENT #2**

				Direct Cost	Subconsultant Expense
Item 1 Preliminary Environmental Site Assessment					
Subconsultant Expense - Cardno ENTRIX					
See Attachment B					\$8,080.00
Item 2 Abbreviated Environmental Assessment					
Mileage					
	2 trips @		20 miles @	\$0.555	\$22.20
Printing					
	50 sheets @	\$0.50			\$25.00
	150 sheets @	\$0.15			\$22.50
Postage (assume 2 agencies)					
	2 each	\$20.00			\$40.00
Item 3 Hydraulic Analysis					
Subconsultant Expense - Teng & Associates					
See Attachment B					\$10,866.62
Item 4 Highway Noise Analysis					
Mileage					
	6 trips @		40 miles @	\$0.555	\$133.20
Printing					
	20 sheets @	\$0.50			\$10.00
	150 sheets @	\$0.15			\$22.50
Postage					
	80 letters	\$3.29			\$263.20
TOTAL:				\$539	\$18,947

ATTACHMENT B

Subconsultant Proposal

Cardno ENTRIX



Shaping the Future

October 7, 2011

Sven D. Zimdahl, P.E.
Project Manager
Civiltech Engineering, Inc.
450 East Devon Avenue, Suite 300
Itasca, IL 60143

**Subject: Proposal to Provide Environmental Engineering Services
Quentin Road Improvements, U.S. Route 12 to IL Route 22
Lake Zurich, Kildeer, and Unincorporated Lake County, Illinois**

Cardno ENTRIX

1000 Hart Road
Suite 130
Barrington, IL 60010
USA

Phone 847 277 2850
Toll-free 800 368 7511
Fax 847 381 6679
www.cardno.com

www.cardnoentrix.com

Dear Mr. Zimdahl:

Cardno ENTRIX is pleased to present Civiltech Engineering, Inc. (Civiltech) with this proposal to conduct Preliminary Environmental Site Assessment (PESA) services for the Phase I Engineering Design Study of the Quentin Road Improvements, U.S. Route 12 to IL Route 22 (Quentin Road Project) project located in Lake Zurich, Kildeer, and Unincorporated Lake County, Illinois. The environmental services included herein coincide with Phase I transportation engineering related services and include completion of a PESA in accordance with the Illinois Department of Transportation (IDOT) requirements. Cardno ENTRIX presents this proposal in the following sections: project description, scope of work, project team, project schedule, project costs, limitations and reliability, and proposal acceptance.

PROJECT DESCRIPTION

Cardno ENTRIX understands that the Lake County Division of Transportation (LCDOT) has retained Civiltech to perform Phase I transportation engineering services for the Quentin Road Project. The Project Corridor for the Quentin Road Project consists of all areas within the Quentin Road existing and proposed right-of-way (ROW) between Boschome Drive and IL Route 22. The proposed improvements include the reconstruction and widening of Quentin Road from north of U.S. Route 12 near Boschome Drive to IL Route 22.

Cardno ENTRIX understands that Civiltech is seeking environmental engineering consulting services for the required Phase I environmental studies, including the preparation of a PESA for sites within the Project Corridor. Based on the criteria outlined in the IDOT Bureau of Local Roads and Streets (BLR&S) manual, a PESA must be conducted to determine the environmental condition of all sites within the Project Corridor prior to construction.

SCOPE OF WORK

Cardno ENTRIX proposes to complete the requested environmental studies support in one task: Task 1 - Preliminary Environmental Site Assessment (PESA). Cardno ENTRIX proposes to complete the PESA process in accordance with BLR&S guidance, as well as the All Appropriate Inquires (AAI) guidance, and the appropriate portions of the Illinois State Geological Survey and

IDOT supported "A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation Highway Projects".

Task 1: Preliminary Environmental Site Assessment (PESA)

Cardno ENTRIX proposes to complete the Quentin Road Project PESA under four (4) work items of this Task. These work items are necessary to identify recognized environmental conditions (RECs) and/or historical RECs.

Work Item 1: Records Review

Based on the Special Waste Procedures for Local Highway Improvements criteria outlined by the BLR&S, a Special Waste Screening (SWS) must be conducted to determine the environmental condition of all sites within and adjacent to the Project Corridor prior to construction. As part of Work Item 1, Cardno ENTRIX proposes to complete an SWS for the Quentin Road Project. This SWS will identify potential Areas of Concern (AOC) within the Project Corridor and will identify RECs that may exist from current or past uses of properties in or adjacent to the AOCs.

Cardno ENTRIX proposes to conduct a Records Review as part of Work Item 1. This review is intended to collect detailed information relevant to the AOCs and adjacent sites for the purpose of identifying RECs and/or historical RECs in connection with the Project Corridor. Records will be obtained from reasonably ascertainable and standard sources, including:

- Federal Agency databases (NPL Site List, RCRA CORRACTS, and non-CORRACTS TSD Lists);
- State Agency databases (State-sponsored Priority Sites List, Registered USTs, and Leaking USTs Lists);
- Local Agency records (landfill and solid waste disposal sites, public wells, registered USTs, zoning maps);
- Aerial photographs;
- Fire insurance maps;
- Records of Environmental Liens; and
- Title Records (if warranted).

Work Item 2: Site Reconnaissance

Cardno ENTRIX proposes to conduct a Site Reconnaissance as part of Work Item 2. The Site Reconnaissance will include a complete inspection of the AOCs and the site features. Although the site inspection will focus on the AOC sites identified in the SWS, adjacent properties and the surrounding area will be assessed with respect to RECs and/or historical RECs that could possibly affect the AOC sites. Photographic documentation of the AOC sites and any observed RECs will be provided and included in the PESA Report. Cardno ENTRIX assumes that either the owner or an owner's representative with knowledge of the history and workings of the AOC sites and structures will accompany Cardno ENTRIX to the sites for the Site Reconnaissance.

Work Item 3: Interviews

Cardno ENTRIX proposes to conduct Interviews as part of Work Item 3. These Interviews will be conducted with owners of the AOC sites to confirm or refute the information obtained from the Records Review. At a minimum, a key manager or individual with good knowledge of the uses and physical characteristics of the property should be interviewed. Owners or occupants may provide information that would be identified as a REC that is not available in the records (e.g. historical "unrecorded" waste disposal practices conducted on-site or at neighboring facilities). Cardno ENTRIX assumes that the owner or owner's representative will satisfy this objective. Cardno ENTRIX assumes that current owners of AOC properties will be available and cooperative in providing full disclosure about any known environmental matters/concerns about the AOCs or adjacent properties.

Cardno ENTRIX will work with the designated individual(s) to coordinate the personal interviews while on-site for the Site Reconnaissance component of this Work Item. If personal interviews are not possible, Cardno ENTRIX will conduct the interview over the phone or submit requests in writing. Regardless of the method used, the following information, if applicable, will be requested prior to the interview:

- Environmental Audit Reports;
- Environmental Site Assessment Reports;
- Environmental Permits;
- Local geological conditions;
- Current and historic waste disposal practices;
- Drinking water test results;
- Septic system maintenance records; and
- Any other applicable aspects or information.

Local government officials who are responsible for USTs and/or hazardous material storage and waste disposal will be contacted. The questions asked of the local officials are aimed at gaining a better insight into the current and past uses of the AOC sites and adjacent properties. Owners of properties not identified in the SWS will not be contacted under this scope of work.

Work Item 4: PESA Report

Cardno ENTRIX proposes to prepare a comprehensive PESA Report as the final work item under this Task. This PESA Report will summarize the information obtained from the three (3) preceding work items of this Task, disclose all information regarding RECs and historical RECs, and provide opinions and recommendations regarding the RECs and historical RECs. The PESA Report will contain all information gathered during the investigation and will designate all potential AOCs with a PESA Risk Findings designation in accordance with the BLR&S methodology. Cardno ENTRIX will prepare and submit a draft PESA Report to Civiltech for review. Cardno ENTRIX will incorporate Civiltech's comments and submit a final PESA Report to Civiltech for use and distribution.

PROJECT TEAM

Cardno ENTRIX proposes to manage this project out of the Barrington, Illinois office with personnel who have significant experience in conducting environmental site assessments. Mr. Barry Stuedemann, P.E., PWS will serve as Project Manager and Environmental Engineer. Cardno ENTRIX has many qualified environmental professionals available to support this effort, including Cardno ERI staff that will assist Mr. Stuedemann in completing the proposed tasks outlined in this scope of work.

PROJECT SCHEDULE

Cardno ENTRIX will proceed with the scope of work presented in this proposal immediately upon authorization from Civiltech. Cardno ENTRIX, however, will only proceed for the specific tasks authorized by Civiltech. The schedule to complete these tasks is influenced by responses to requests for information through the Freedom of Information Act (FOIA). Information requested through the FOIA process, however, is often not received within a reasonable time frame. If FOIA information is not available at the time when the report is scheduled for submittal, Cardno

Sven D. Zimdahl, P.E.
Civiltech Engineering, Inc.
October 7, 2011



ENTRIX will contact Civiltech to coordinate an appropriate submittal level and date. Cardno ENTRIX anticipates that the PESA can be completed in approximately four to six weeks after authorization to proceed.

PROJECT COSTS

Cardno ENTRIX estimates the cost to complete **Task 1** outlined in this proposal to be a maximum "not-to-exceed" fee of **\$8,080**. An itemization of these costs is presented in Table 1, Cost Estimate for Consulting Services. Cardno ENTRIX will not proceed with this task without written authorization from Civiltech. Cardno ENTRIX will bill Civiltech on a time and material basis in accordance with the Client Agreement between ENTRIX and Civiltech, dated February 18, 2008, and will not exceed the estimated costs presented in this proposal without written authorization from Civiltech.

LIMITATIONS AND RELIABILITY

This proposal is provided at the request of Civiltech on behalf of IDOT. Cardno ENTRIX will utilize methods and procedures consistent with good commercial or customary practices designed to conform to acceptable industry standards referenced in the IDOT Phase 1 PESA guidance materials, which reference ASTM E-1527-05 standards. Cardno ENTRIX understands this guidance to include reference to the adopted AAI Rule (40 CFR 312). The Cardno ENTRIX PESA is limited to the information available at the time services are rendered. This limitation includes visual observations made on the day of inspection, review of readily available and relevant data/reports, and statements made and information provided by the client, his agents, land-owners or tenants of subject property and adjacent properties, outside parties, and regulatory agencies. A PESA is a limited and non-exhaustive survey that is intended to evaluate whether the readily available information about a property and/or adjacent properties indicates that the historic or current use of the site and/or adjacent sites: has resulted in releases or threatened releases of hazardous materials; or are potentially responsible for recognized environmental conditions which could negatively impact the value of the property and future liability, and financial exposure of future property owners.

PROPOSAL ACCEPTANCE

To indicate your acceptance of this proposal, please sign the attached Task Order and fax back to our office at 847-381-6679 as our authorization to proceed. Cardno ENTRIX appreciates this opportunity to present PESA services to Civiltech. If you have any questions, please do not hesitate to contact me at 847-277-2850.

Sincerely,

A handwritten signature in black ink that reads 'Baron H. Stuedemann'.

Baron H. Stuedemann, P.E., PWS
Senior Consultant / Wetlands Specialist
for Cardno ENTRIX
Direct Line: 847-277-2866
Email: baron.stuedemann@cardno.com

TABLE 1
 Cost Estimate for Consulting Services

ENVIRONMENTAL ENGINEERING SERVICES
 QUENTIN ROAD INTERSECTION IMPROVEMENTS
 U.S. Route 12 to IL Route 22

Prepared for Civiltech Engineering, Inc.
 Prepared by Cardno ENTRIX

October 7, 2011

QUENTIN ROAD PROJECT ENVIRONMENTAL ENGINEERING SERVICES WORK ITEM DESCRIPTION	PROJECT MANAGER	STAFF ENGINEER	ADMIN. ASSISTANT	TOTAL HOURS	TOTAL LABOR COSTS	TOTAL DIRECT COSTS*	NOT-TO- EXCEED COSTS
Task 1 - Preliminary Environmental Site Assessment (PESA)	8	48	16	72	\$6,880	\$1,200	\$8,080
TOTAL:	8	48	16	72	\$6,880	\$1,200	\$8,080

* EDR = \$700; Mileage = \$100; Deliveries = \$250; Copies = \$150



CONSULTANT TASK ORDER

Task Order No.: 1

Date: October 7, 2011

Cardno ENTRIX Project No.: _____

Civiltech Engineering, Inc.
450 East Devon Avenue, Suite 300
Itasca, IL 60143

Attn: Sven D. Zimdahl, P.E.
Project Manager

**Quentin Road Improvements,
U.S. Route 12 to IL Route 22**

This Task Order No. 1 is issued pursuant to our Agreement dated October 7, 2011 and unless otherwise specified herein, the performance of services hereunder and the payment therefore shall be subject to the terms and conditions of said Agreement. The services authorized hereunder are described below.

DESCRIPTION OF SERVICES: Preliminary Environmental Assessment (PESA) Report

BILLING PROCEDURES: Monthly

TOTAL COST (NOT TO EXCEED): \$8,080 (Maximum Not-to-Exceed)

ESTIMATE OF TIME SCHEDULE: Starting Date: October 17, 2011

Completion Date: September 30, 2012

CARDNO ENTRIX'S REPRESENTATIVE: Baron H. Stuedemann, P.E., PWS

CONSULTANT'S REPRESENTATIVE: Sven D. Zimdahl, P.E.

ACCEPTED:

Cardno ENTRIX

Civiltech Engineering, Inc.

By: _____ By: _____

Title: _____ Title: _____

Date: _____ Date: _____

ATTACHMENT C

Subconsultant Proposal

Teng & Associates, Inc.

October 17, 2011

TENG

Ms. Mary Young, P.E.
Civiltech Engineering Inc
450 E Devon Ave, Suite 300
Itasca, Illinois 60143

Re: Proposal for Engineering Services
Quentin Road – Lake County Illinois
Teng Project No. CHI-00012747-01

Dear Ms. Young:

Teng & Associates, Inc. (Teng) is pleased to present this proposal for additional engineering services related to the proposed Quentin Road improvement from US Route 12 to IL Route 22 in Lake County, Illinois. The following is Teng's understanding of the project based on discussions with Civiltech Engineering, Inc. (Civiltech) staff.

SCOPE OF THE PROJECT

The proposed roadway improvement includes the widening of Quentin Road. The existing and proposed roadway crosses the Tributary to South Branch of Indian Creek just south of IL Route 22. Teng will complete a Hydraulic Report for this crossing.

SCOPE OF ADDITIONAL SERVICES

Civiltech will provide the survey required to complete the Hydraulic Report in electronic format. Teng will provide the following additional services:

- Complete a hydraulic analysis for existing and proposed conditions using HEC-RAS software. Recommend structure opening and identify permit requirements. Floodplain compensatory storage locations will be recommended based on permitting requirements.
- Provide a Hydraulic Report for the proposed roadway crossing of Tributary to South Branch of Indian Creek.

COMPENSATION

ADDITIONAL SERVICES: For Additional Services as defined above, Teng & Associates, Inc. shall be compensated according to the attached CECS form with a not to exceed fee of \$10,866.62.

Civiltech Engineering Inc

October 17, 2011

Page 2

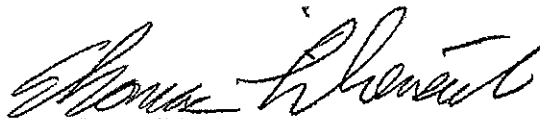
TERMS AND CONDITIONS

This Proposal shall be based on the "Phase I First Supplemental IDOT Agreement" dated August 2, 2011 and shall form the basis of the Agreement between Teng & Associates, Inc. and Civiltech Engineering Inc. upon your authorization to proceed.

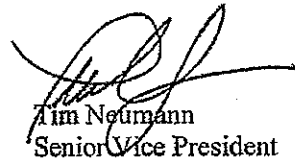
We welcome the opportunity to work with you and your team and are ready to commence services. Please contact the undersigned at 312-616-0000 if you have any questions or need additional information.

Very truly yours,

TENG & ASSOCIATES, INC.



Thomas Liliensiek, P.E.
Water Resource Manager



Tim Neumann
Senior Vice President

Enclosure (s)

xc: Exec File - ML

Firm: Teng & Associates Teng & Associates
 Route: Quentin Road
 Section: Lake
 County: Lake
 Job No.:
 PTB & Item:

Date: 10/17/11
 Overhead Rate: 0.00%
 Complexity Factor: 0.003

Cost Estimate of Consultant Services
 (Direct Labor Multiple)

ITEM	MANHOURS (A)	PAYROLL (B)	(3HR) TIMES PAYROLL (C)	DIRECT COSTS (D)	SERVICES BY OTHERS (E)	D&E TOTAL (C+D+E)	TOTAL (C+D+E)	% OF GRAND TOTAL
Major Waterway Crossing Analysis (1)	80	3,166.10	9,507.79	150.00		9,657.79	9,657.79	88.89%
Meetings/Coordination	4	192.94	579.41	50.00		629.41	629.41	5.79%
Administration/Management	4	192.94	579.41	0.00		579.41	579.41	5.33%
TOTALS	88	3,551.99	10,666.62	200.00	0.00	0.00	10,666.62	100.00%



Route Quantin Road
 Section Lake
 County Lake
 Job No. 118107
 P18/Item

Consultant Tang & Associates

Date 10/17/11

Sheet 1 OF 1

Average Hourly Project Rates

Payroll Classification	AVG Hourly Rates	Total Project Hours	Total Project Rates			Major Waterway Crossing Anal Hours	Major Waterway Crossing Anal			Meetings/Coordination Hours	Administration, Management								
			% Part	Wght Avg	% Part		Wght Avg	% Part	Wght Avg										
Technical Manager	\$64.63	2	2.27%	1.47	2	2.50%	1.61	2	50.00%	26.94	2	50.00%	26.94						
Senior Engineer	\$83.88	12	13.64%	7.35	8	10.00%	5.39	2	50.00%	21.30	2	50.00%	21.30						
Engineer	\$42.69	41	46.69%	19.84	37	46.25%	19.70	2	50.00%	21.30	2	50.00%	21.30						
Technician	\$31.21	33	37.50%	11.71	33	41.25%	12.88												
Technical Aid	\$23.11	0																	
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TOTALS		88	100%	\$40.36	80	100%	\$39.58	4	100%	\$48.24	4	100%	\$48.24	0	0%	\$0.00	0	0%	\$0.00