

Memorandum

To: Honorable Mayor and Members of the City Council
Administration & Public Works Committee

From: Suzette Robinson, Director of Public Works
Homayoon Pirooz, P.E., Assistant Director of Public Works
Sat Nagar, P.E., Senior Project Manager

Subject: Sheridan Road-Chicago Ave Alternative Analysis
Engineering Services - RFQ #14-16

Date: April 22, 2014

Recommended Action:

Staff recommends City Council authorize the City Manager to execute an agreement for engineering services for the Sheridan Road-Chicago Ave Alternative Analysis in the amount of \$265,099.84 with Christopher B. Burke Engineering, Ltd. (9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018)

Funding Source:

Washington National TIF	\$ 12,486.00
2014 CIP Sheridan-Chicago Bike Path	37,458.00
2014 CIP Sheridan Road Improvement Project	<u>215,155.84</u>
Total	\$265,099.84

Summary:

The Sheridan Road – Chicago Ave Improvement Project is a major undertaking by the City of Evanston to improve the traffic flow throughout the corridor for all modes of traffic, to improve the streets pavement condition, and to provide additional sustainable surface storm water management techniques. Project begins with Chicago Avenue at the intersection of Grove Street, and ends on Sheridan Road at the intersection with Isabella Street.

The first stage of the project will begin with an alternative analysis of Sheridan Road and Chicago Avenue for improved biking, pedestrian, vehicular and transit operations. This stage will include traffic, accidents and intersection analysis, surveying, geotechnical investigation, public outreach, best practices for sustainable storm water

management and development of the best alternate plans for automobiles, bicycles and pedestrian flow along the corridors.

Staff will present alternatives to City Council for the selection of the best plan to improve the corridors within the project limits and recommend the commencement of stage two which includes items two and three of the cost proposal listed in Attachment A. The preparation of the construction plans and specifications will go out for bid in early 2015 with the completion of the Chicago Avenue corridor in the spring followed by the Sheridan Road corridor in the summer of 2015.

Background

On February 6, 2014, the City issued a Request for Qualification (RFQ) for the engineering services for the Sheridan Road-Chicago Ave Improvements Project. In response to the above RFQ, the City received eight proposals. The initial review of the proposals was completed by the consultant selection committee consisting of Director of Public Works, Assistant Director, three Senior Project Managers, CDBG Administrator and staff from purchasing. A short list was established and four engineering firms were selected for interviews. After the completion of the interviews and evaluation of the proposals, the committee unanimously selected Christopher B. Burke Engineering, Ltd. for the project engineering based on their team's qualification, their project manager's competencies and their past experience with similar projects.

As required by the RFQ process and following the selection of Christopher B. Burke Engineering, Ltd., the City opened the consultant's fee proposal. The final consultant fee schedule for the Sheridan Road-Chicago Alternative Analysis for the amount of \$265,099.84 is attached. The Christopher B. Burke Engineering, Ltd. project team includes TY Lin International for Bike/pedestrian design, Altamanu, Inc (WBE) for landscape architecture and ADA design, Fish Transportation Group (WBE) for traffic counts, GSG Consultants (MBE) for geotechnical and HR Green (EBE) for public engagement process and civil engineering QA/QC. Christopher Burke has committed to 29.8% M/W/EBE participation for this stage of the project.

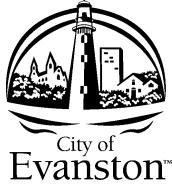
Attachments:

Memo MW/EBE

Fee Proposal for Alternative Analysis

RFQ 14-16 - List of Proposals

RFQ - SHORT LIST



Memorandum

To: Suzette Robinson, Director of Public Works
 Homayoon Pirooz, P.E., Assistant Director of Public Works
 Sat Nagar, P.E., Senior Project Manager

From: Tammi Turner, Purchasing Manager

Subject: Request for Qualification 14-16
 Sheridan Road-Chicago Alternative Analysis
 Engineering Services

Date: April 28, 2014

The goal of the Minority, Women and Evanston Business Enterprise Program (M/W/EBE) is to assist such businesses with opportunities to grow. In order to help ensure such growth, the City's goal is to have general contractors utilize M/W/EBEs to perform no less than 25% of the awarded contract. With regard to RFQ 14-61, Sheridan Road-Chicago Alternative Analysis Engineering Services with Christopher B. Burke Engineering, Ltd. is found to be in initial compliance with the goal by subcontracting approximately 29.8% of the contract work to certified M/W/EBE's.

Christopher B. Burke, Ltd.'s total base bid is \$265,099.84, and will receive 29.8% credit.

Name of M/W/EBE	Scope of Work	Contract Amount	%	MBE	WBE	EBE
Altamanu, Inc 1700 W. Irving Park Rd. Chicago, IL 60613	Landscaping	\$30,910.64	11.6%		X	
Fish Transportation 801 S. Blvd, Ste. 5 Oak Park, IL 60302	Transportation, Traffic Data Collection	\$11,664.39	4.4%		X	
GSG 855 W. Adams, Ste. 200 Chicago, IL 60607	Consulting Services & Management	\$19,007.65	7.17%	X		
HR Green 820 Davis Street, Ste. 118 Evanston, IL 60201	Design	\$17,655.64	6.66%			X
Total M/W/EBE		\$79,238.32	29.8 %			

Cc: Martin Lyons, Assistant City Manager/CFO

MEMORANDUM

April 22, 2014

TO: Mr. Homayoon Pirooz, Mr. Sat Nagar
(City of Evanston)

FROM: Michael E. Kerr, PE
(Christopher B. Burke Engineering, Ltd.)

SUBJECT: Summary of Negotiation Meeting Held 4/18/14

Please find attached for your use a revised cost proposal, fee summary, manhour breakdown per task, and revised scope of services.

A brief summary of each task discussed at Friday's meeting is provided below:

- Task 1.1 Project Initiation and Kick-off Meeting – The total fee was reduced approximately \$2.5K due to project familiarity.
- Task 1.2 Data Collection – The total fee was reduced approximately \$5K due to TY Lin's familiarity with existing bike patterns.
- Task 1.3 Full Classification Traffic Counts – This item was not reduced.
- Task 1.4 Topographic and ROW Survey – This item was reduced approximately \$40K by limiting the survey on the approach roadways to the radius returns.
- Task 1.5 Geotechnical Investigation – This item was reduced approximately \$3K by eliminating some of the borings.
- Task 1.6 Traffic and Accident Analysis – This task was reduced by approximately \$9K by streamlining the accident analysis and limiting alternatives considered to those that fit within the existing pavement.
- Task 1.7 and Task 1.8 Existing Conditions Report and Conceptual Alternatives Report – these items were combined into one report with a savings of approximately \$10K.
- Task 1.9 This item was not reduced.

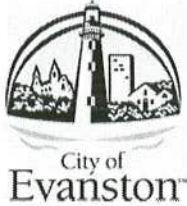
The above changes resulted in a total reduction in fee of approximately \$68K for Task One. The resultant WBE/MBE/EBE % is 29.9.

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 W Higgins Road, Suite 600, Rosemont, Illinois 60018-4920 Tel (847) 823-0500 Fax (847) 823-0520



**RFQ # 14-16
Attachment A**

Cost Proposal

Item	Scope of Work	Cost
1	Sheridan Road alternate analysis	-\$ \$265,099.84
2	Sheridan Road off street improvements and Chicago Avenue improvements (Phase I & Phase II Engineering) <ul style="list-style-type: none"> a. Multi use off-street path (RFP Study Area Section 4) b. Sustainable parkway (RFP Study Area Section 3) c. Chicago Avenue street & cycle track Improvements (RFP Study Area Section 5) Provide cost for tasks a, b & c	
3	Sheridan Road four-lane cross section as per IDOT approved Phase I Report dated February 2009 <ul style="list-style-type: none"> a. Phase II Engineering 	

Accepted By:
City of Evanston

Christopher B. Burke Engineering, Ltd.



By:

By: Michael E. Kerr, Executive Vice President

Date:

Date: 4/22/14

FEE SUMMARY

Task 1
\$ 265,099.84

Totals=	\$ 265,099.84
Const. Cost Est=	\$5,000,000
% of Const. Cost=	5.30%
TY Lin	\$ 38,416.93
Altamanu (WBE)	\$ 30,919.91
Fish (WBE)	\$ 11,700.00
GSG (MBE)	\$ 19,000.00
HR Green (EBE)	\$ 17,658.00
CBBEL	\$ 147,405.00
Altamanu (WBE)	11.66%
Fish (WBE)	4.41%
GSG (MBE)	7.17%
HR Green (EBE)	<u>6.66%</u>
Total	29.90%

Work Hours
Christopher B. Burke Engineering, Ltd.

City of Evanston
 Task 1 - Sheridan Road Alternate Analysis
 Manhour Breakdown

TASK	Engineer VI	Engineer or Survey IV	Engineer III	Engineer I/II	CAD II	Administrative	By Others TY Lin	By Others Altamanu	By Others Fish GSG	By Others HR Green	Survey Crew	Hours	TOTAL \$
1.1 - Project Initiation and Kick-Off Meeting	8	20				1	\$ 501.82	\$ 1,000.00				29	\$ 6,189.82
1.2 - Data Collection	4	12	8		2	1	\$ 1,171.40			\$ 5,000.00		27	\$ 10,137.40
1.3 - Full Classification Traffic Counts	1		2						\$ 11,700.00			3	\$ 12,175.00
1.4 - Topographic and ROW Survey		60			54						39680	114	\$ 55,226.00
1.5 - Geotechnical Investigation	1	2			1		\$ 250.91		\$ 19,000.00			4	\$ 19,882.91
1.6 - Sheridan Road Traffic and Accident Analysis	12	40	66	120	24	1	\$ 15,442.16					263	\$ 47,708.16
1.7 - Existing Conditions/Concept Alternatives Report	20	66	32		100	8	\$ 18,565.56	\$ 23,919.91		\$ 4,100.00		226	\$ 78,127.47
1.8 - Public Outreach	16	24	18		24	14	\$ 2,485.08	\$ 6,000.00		\$ 8,558.00		96	\$ 30,653.08
	62	224	126	120	205	25	\$ 38,416.93	\$ 30,919.91	\$ 30,700.00	\$ 17,658.00		733	\$ 260,099.84
												0	\$ -
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Total Hours per Classification	62	224	126	120	205	25	\$ 38,416.93	\$ 30,919.91	\$ 30,700.00	\$ 17,658.00	\$39,680.00	733	\$ 260,099.84
Hourly Rate	\$217.00	\$143.00	\$129.00	\$102.00	\$129.00	\$92.00					\$248.00		
Direct Costs													\$ 5,000.00
Total													\$ 265,099.84

SCOPE OF SERVICES

Based on our understanding of the Project, the CBBEL team has developed the following Scope of Services to best guide the City through this project. The CBBEL team understands that the Scope of Services has been split into 3 major tasks. These tasks are as follows:

- Task 1 – Sheridan Road Alternate Analysis
- Task 2 - Sheridan Road Off Street Improvements, Chicago Avenue Improvements (Phase I & Phase II), and Sustainable Parkway along Sheridan Road.
- Task 3 – Sheridan Road Resurfacing (Phase II)

CBBEL understands that the City is only proceeding with Task 1 at the present time.

Task 1 – Sheridan Road Alternative Analysis

Although this task will focus on the comparison of alternatives proposed for Sheridan Road, the CBBEL team is proposing completing all of the critical path items for upcoming tasks under Task 1. It will be critical to complete Data Collection, Surveys and the Geotechnical Investigation under this task to meet the City's aggressive schedule.

Task 1.1 - Project Initiation and Kick-off Meeting

The CBBEL team will meet with City staff for a project initiation meeting to review/refine the scope of services and to develop an acceptable project schedule. The meeting will include introductions, expectations, priorities, and communication protocols.

Task 1.2 – Data Collection

The CBBEL team will collect all available information from the City and other sources necessary for the project. The information will include:

- Storm and Sanitary Sewer Atlases
- Water System Atlases
- Private Utility Atlases (Northwestern, ComEd, NICOR, AT&T)
- Traffic Signal Plans for Corridor
- Transit Routes Along the Corridor
- Northwestern University Campus/Transportation Information
- The Accident History for the Previous Five Years for the Corridor
- Prior Studies and Improvement Plans
- Recent and Pending Adjacent Development Information

Task 1.3 – Full Classification Traffic Counts

Fish Transportation Group will perform 12 hour full classification counts of all of the signalized intersections along Sheridan Road between Chicago Avenue and Isabella Street. These intersections include Chicago Avenue, Foster Street, Northwestern



SCOPE OF SERVICES

Parking Lot, Noyes Street, Lincoln Street, Central Street, Ingleside Place, and Isabella Street. The traffic counts will be supplemented by pedestrian and bicycle counts provided by the City. It is not anticipated that any counts or analysis will be necessary along Chicago Avenue as the operations should remain similar to today's condition even with the addition of a cycle track.

Task 1.4 – Topographic and ROW Survey

The CBBEL team will prepare a Topographic and ROW survey of the project limits. The survey will be necessary for the Chicago Avenue Streetscape, the Chicago Avenue Cycle Tracks, and whatever Sheridan Road alternative is advanced. For this reason, we have included the entire survey in this task. The limits of the survey will be as follows:

Chicago Ave – Grove St to Sheridan Rd	-	2400'
Sheridan Road – Chicago Ave to Isabella St	-	7600'
10 4-legged Intersections to radius return	-	1000'
15 T-Intersections to radius return	-	750'
		<hr/>
		11,750'

Based on the RFP, the survey will include the following:

- Datums: Horizontal – NAD83 State Planes Vertical – NAVD88 or other specified by engineer
- Locate and field measure available property corners within survey area
- Obtain 'spot' elevations at 50 foot intervals including high and low points throughout survey area
- Establish/set 8 site benchmarks within survey area
- Field measure and locate all visible utilities within survey area
- Obtain invert elevations and pipe sizes of all surveyed manhole structures
- Obtain all necessary information about the vaults within the project limits
- Provide topographic data 10 feet past right-of-way lines
- Right-of-ways will be shown based on monuments found in the field and existing maps and records. This information will be reviewed by a professional land surveyor and shown on the drawing for reference
- Provide base drawings at a 1"= 20' scale for all topographic information (plan view)
- Provide electronic file of plan view include TIN with files
- Survey locations of the water and sewer infrastructure (manholes, drainage structures, valve vaults, valve boxes and B-boxes)

All of the utility information gathered above will be provided to the City in an ESRI Arc shape file format.



SCOPE OF SERVICES

Task 1.5 – Geotechnical Investigation

The CBBEL team will prepare a geotechnical investigation of the project limits. This will include performing pavement cores for both Chicago Avenue and Sheridan Road and performing soil borings along Sheridan Road. The soil borings along Sheridan Road will be suitable for designing the potential pavement reconstruction and/or construction of bioswales along Sheridan Road.

Task 1.6 – Sheridan Road Traffic and Accident Analysis

Based on the traffic counts gathered in Task 1.3, CBBEL will utilize highway capacity software (HCS 2010) and simulation software (VISSIM) to evaluate the roadway and intersection capacity. This task includes utilizing the software tools to prepare an engineering evaluation of Alternative 1, which maintains the existing 4 lane cross section, and Alternative 2, which would utilize a 3 lane cross-section. The HCS 2010 analysis will provide a capacity analysis of both alternatives, allowing an evaluation of phasing and lane capacity. The HCS results provide direct measures of effectiveness to support alternatives analysis, as well as producing level-of-service (LOS) and delay results as required by IDOT and FHWA. The VISSIM simulation software allows analysis of traffic flow throughout the corridor in each alternative, including the ability to analyze bicycles, pedestrians, traffic signal performance, and transit bus operations. The simulation is also an excellent visualization tool that can demonstrate to stakeholders how each alternative might be expected to operate.

CBBEL will review the crash data obtained in Task 1.2 to evaluate the crash history throughout the corridor. Through this process, CBBEL will review and identify countermeasures that could be incorporated into the designs to mitigate crashes.

Task 1.7 – Existing Conditions and Conceptual Alternatives Report

Based on a review of the collected data, field reviews, and traffic and accident analyses, the CBBEL team will prepare an existing conditions report of the Sheridan Road corridor. The report will provide an overview of the existing vehicle LOS, and a summary of the existing infrastructure and operations of the transit services, bicycle and pedestrian facilities, and parking along the project corridor.

In addition, the CBBEL team will provide two conceptual alternatives for the entire Chicago Avenue/Sheridan Road corridor meeting the City's goals as outlined earlier in our Understanding of the Project.

The Chicago Avenue concepts will focus on alternative configurations of the on-street protected cycle tracks.

The Sheridan Road concepts will focus on the three/four lane/off street multi-use path options. None of the options explored will involve significantly widening the existing roadway. Of particular concern is how either of these options will ultimately connect



SCOPE OF SERVICES

to the existing bike lanes in Wilmette. It is anticipated that these concepts will include exploring bike routes or boulevards to make the connection.

The concepts would be developed at a smaller scale (1"=100') in plan view and typical sections would be developed at key locations along the corridor. A strategy for the management/treatment of stormwater would also be presented at the conceptual level for each option. In addition, a few sheets of special details of proposed bioswales, streetscape elements, pervious pavement, and landscaping would be developed to tighten up the parameters of the project.

These concepts would be suitable for City review and for presentation to the public. More importantly, these concepts would be used to develop accurate project costs, determine fatal flaws and process pitfalls, compare the pros and cons of each concept, and to develop a strategic implementation plan meeting the City's aggressive schedule.

The two concepts, details, estimates, comparison, preferred alternative, and implementation plan would be provided to the City in a report format prior to proceeding with any detailed Phase I or Phase II Engineering.

Task 1.8 – Public Outreach

Per the RFP Addendum, two advisory meeting and one community meeting will be held during development of the conceptual alternatives. The timing and material presented at these meetings will be developed in coordination with the City early during Task 1. It is anticipated that the details of the analysis performed above and the two conceptual options will be presented at the community meetings.

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**City of Evanston
 Sheridan Road / Chicago Avenue Improvements
 (Grove Street to Isabella Street)**

RFQ Number: 14-16

RFQ Due: 2:00 p.m., March 18, 2014, Room 4200, Lorraine H. Morton Civic Center, 2100 Ridge Ave., Evanston, IL 60201

<i>Company Name</i>	<i>City/State</i>
Christopher B. Burke Engineering	Rosemont, IL 60018
Parsons Brinckerhoff	Chicago, IL 60602
Sam Schwarz Engineering	New York 10012
V3 Companies	Woodridge, IL 60517
Stanley Consultants	Chicago, IL 60631
AES Services, Inc	Chicago, IL 60646
Mackie Consultants	Rosemont, IL 60018
Ciorba Group	Chicago, IL 60656

**City of Evanston
 Sheridan Road / Chicago Avenue Improvements
 (Grove Street to Isabella Street)**

RFQ Number: 14-16 - SHORT LIST

RFQ Due: 2:00 p.m., March 18, 2014, Room 4200, Lorraine H. Morton Civic Center, 2100 Ridge Ave., Evanston, IL 60201

<i>Company Name</i>	<i>City/State</i>
Christopher B. Burke Engineering	Rosemont, IL 60018
Parsons Brinckerhoff	Chicago, IL 60602
Sam Schwarz Engineering	New York 10012
Stanley Consultants	Chicago, IL 60631

Department Recommended Contract Award To: Christopher Burke Engineering

Option 1	\$583,375.27	Option 2	\$1,233,940.04
Scope of Work Item #1 - \$333,028.84		Scope of Work Item #1 - \$333,028.84	
Scope of Work Item #3 - \$144,095.15		Scope of Work Item #2 - \$287,346.28	
Scope of Work Item #5 - \$106,251.28		Scope of Work Item #4 - \$507,313.64	
		Scope of Work Item #5 - \$106,251.28	