

RESOLUTION NO. 21664

Background

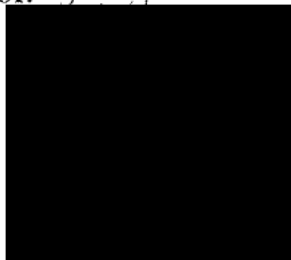
The Illinois State Toll Highway Authority (the "Tollway"), pursuant to Resolution No. 21398 approved October 26, 2017, entered into an Agreement with Bowman, Barrett & Associates Inc./Christopher B. Burke Engineering, Ltd. on Contract I-17-4303 for Design Services, for Roadway Reconstruction, Widening and Bridge Rehabilitation on the Tri-State Tollway (I-294) from Mile Post 37.8 (O'Hare Oasis) to Mile Post 40.0 (Balmoral Avenue).

Per Tollway request, Bowman, Barrett & Associates Inc./Christopher B. Burke Engineering, Ltd. has submitted a proposal to provide Supplemental Design Services for Contract I-17-4303, increasing the contract upper limit by \$970,000.00, from \$6,700,000.00 to \$7,670,000.00. It is necessary and in the best interest of the Tollway to accept the proposal from Bowman, Barrett & Associates Inc./Christopher B. Burke Engineering, Ltd.

Resolution

The Chief Engineering Officer is authorized to negotiate a Supplemental Agreement with Bowman, Barrett & Associates Inc./Christopher B. Burke Engineering, Ltd. consistent with the aforementioned proposal to increase the contract upper limit by \$970,000.00, subject to the approval of the Acting General Counsel. The Chairman or the Executive Director is authorized to execute the Agreement and the Chief Financial Officer is authorized to issue warrants in payment thereof.

Approved by:

A large black rectangular redaction box covers the signature of the Chairman.

Chairman

Unified Certification Program - Search

Contractor Details

[Browse F.A.Q. Sheet \(/UCP/Search/Help\)](#)

[Print](#)

I-17-4303

American Surveying & Engineering, P.C.

Coventine Fidis
150 N. Wacker Dr., Ste.
2650
Chicago, IL 60606

County: Cook

Email: c.fidis@americansurvey.com

Phone: (312) 277-2000

Fax: (312) 277-2002

Categories: Architecture\Engineering, Construction,
Professional

I-17-4309

NAICS	Speciality
238910-Site Preparation Contractors	238910- MISC: CONSTRUCTION LAYOUT AND STAKING
531210-Offices of Real Estate Agents and Brokers	531210- MISC: REAL ESTATE NEGOTIATOR
531320-Offices of Real Estate Appraisers	531320- REAL ESTATE APPRAISAL
541320-Landscape Architectural Services	541320- URBAN PLANNING
541330-Engineering Services	541330- WATERWAYS: TYPICAL CONSTRUCTION INSPECTION
541370-Surveying & Mapping (except Geophysical) Serv.	SUBSURFACE UTILITY ENGINEERING
541620-Environmental Consultant Services	WATERWAYS: COMPLEX LOCATION DRAINAGE
541690-Other Scientific & Technical Consulting	FREEWAYS ROADS AND STREETS
	541370- SURVEYING
	541620- SANITARY ENGINEERING
	ENVIRONMENTAL ASSESSMENT
	ENVIRONMENTAL IMPACT STATEMENTS
	541690- TECHNICAL TRAINING

Unified Certification Program - Search

Contractor Details

[Browse F.A.Q. Sheet \(/UCP/Search/Help\)](#)

[Print](#)

I-17-4303

Environmental Design International inc. **Email:** lsawyer@envdesigni.com
Phone: 312-345-1400
Fax: 312-345-0529

Leslie J Sawyer
 33 W. Monroe St., Ste.
 1825
 Chicago, IL 60603-0000

County: Cook

Categories: Construction, Professional

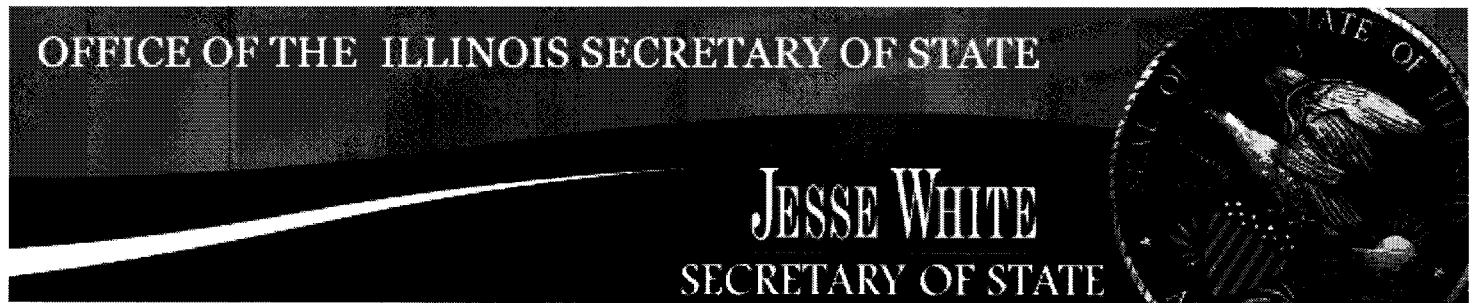
NAICS

541330-Engineering services
 541370-Surveying and mapping services (except geophysical)
 541620-Environmental consulting services

Speciality

541330-Engineering Services
 541370-Surveying and Mapping Services
 541620-Environmental Consulting Services

I-17-4303



CORPORATION FILE DETAIL REPORT

File Number	55761213		
Entity Name	BOWMAN BARRETT & ASSOCIATES, INC.		
Status	ACTIVE		
Entity Type	CORPORATION	Type of Corp	DOMESTIC BCA
Incorporation Date (Domestic)	12/08/1989	State	ILLINOIS
Agent Name	TERRY L ENGEL	Agent Change Date	01/28/1999
Agent Street Address	225 W WASHINGTON ST SUITE 1700	President Name & Address	JAMES DAUM 130 E RANDOLPH ST CHICAGO 60601
Agent City	CHICAGO	Secretary Name & Address	LOUIS BOWMAN 130 E RANDOLPH ST CHICAGO 60601
Agent Zip	60606	Duration Date	PERPETUAL
Annual Report Filing Date	00/00/0000	For Year	2018

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(One Certificate per Transaction)

OTHER SERVICES

[File Annual Report](#)
[Adopting Assumed Name](#)
[Articles of Amendment Effecting A Name Change](#)
[Change of Registered Agent and/or Registered Office Address](#)
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I-17-4303

OFFICE OF THE ILLINOIS SECRETARY OF STATE



JESSE WHITE
SECRETARY OF STATE

CORPORATION FILE DETAIL REPORT

File Number	54407831		
Entity Name	CHRISTOPHER B. BURKE ENGINEERING, LTD.		
Status	ACTIVE		
Entity Type	CORPORATION	Type of Corp	DOMESTIC BCA
Incorporation Date (Domestic)	10/06/1986	State	ILLINOIS
Agent Name	CHRISTOPHER B BURKE	Agent Change Date	12/10/1993
Agent Street Address	9575 W HIGGINS RD 600	President Name & Address	CHRISTOPHER B BURKE 8S201 COLLEGE RD NAPERVILLE 60540
Agent City	ROSEMONT	Secretary Name & Address	SUSAN S BURKE SAME
Agent Zip	60018	Duration Date	PERPETUAL
Annual Report Filing Date	09/05/2018	For Year	2018

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(One Certificate per Transaction)

OTHER SERVICES

[File Annual Report](#)[Adopting Assumed Name](#)[Articles of Amendment Effecting A Name Change](#)[Change of Registered Agent and/or Registered Office Address](#)[BACK TO CYBERDRIVEILLINOIS.COM HOME PAGE](#)

DESIGN SECTION ENGINEER
FIRST SUPPLEMENTAL AGREEMENT INCLUDING TEAMING

The Board of Directors, on the 25th day of **October, 2018**, authorized this **FIRST SUPPLEMENTAL AGREEMENT** to be entered into by and between THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY, an instrumentality and administrative agency of the State of Illinois, hereinafter sometimes referred to as "TOLLWAY", and comprised of the Team of **BOWMAN, BARRETT & ASSOCIATES, INC. / CHRISTOPHER B. BURKE ENGINEERING LTD.** authorized and existing within the laws of the State of Illinois, hereinafter sometimes referred to as "DESIGN SECTION ENGINEER".

W I T N E S S E T H:

WHEREAS, the TOLLWAY selected the DESIGN SECTION ENGINEER from **PSB 17-3, Item 8**, and DESIGN SECTION ENGINEER entered into an agreement on **October 26, 2017**, to provide design section engineering services (hereinafter "Services") for Contract No. **I-17-4303** for **Tri-State Tollway, Roadway Reconstruction and Bridge Rehabilitation, O'Hare Oasis (Mile Post 37.8) to Balmoral Avenue (Mile Post 40.0)**; and

WHEREAS, additional supplemental Services are necessary due to the increased scope of the work; and

WHEREAS, DESIGN SECTION ENGINEER has submitted a proposal dated **October 1, 2018**, a copy of which is attached hereto as Exhibit "1", to provide said additional Services, and it is in the best interest of the TOLLWAY to accept said proposal.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties hereto mutually covenant and agree as follows:

ARTICLE I

General Provisions

Except as modified or changed herein, all terms, provisions and conditions contained in the original agreement between the TOLLWAY and the DESIGN SECTION ENGINEER dated **October 26, 2017** ("Original Agreement") and commonly referred to as Contract No. **I-17-4303**, shall govern this agreement and be in full force and effect, however, any changes to multipliers, unit costs, prices and/or rates of compensation shall only be applied to Services rendered solely under this Supplement pursuant to changes in the scope of work. The supplemental proposal attached as Exhibit "1" is hereby made a part of this Supplemental Agreement.

ARTICLE II

Time of Performance

The DESIGN SECTION ENGINEER shall perform the services herein in accordance with the schedule included at Exhibit "A" in the attached proposal.

ARTICLE III

Reaffirmation of Original Agreement

All covenants and agreements contained in the Original Agreement made and entered into by and between the TOLLWAY and DESIGN SECTION ENGINEER and all prior Supplemental Agreements, if any, to provide Services for Contract No. **I-17-4303 for Tri-State Tollway, Roadway Reconstruction and Bridge Rehabilitation, O'Hare Oasis (Mile Post 37.8) to Balmoral Avenue (Mile Post 40.0)** are reaffirmed and shall govern this Agreement as if fully set forth herein, it being the intent that this Agreement shall be a supplement to said agreement(s).

ARTICLE IV

Record Retention and Audit

In compliance with the Illinois Procurement Code (30 Ill. Comp. Stat. 500/20-65) and rules promulgated thereunder, every CONTRACT for goods and services shall provide that the contractor shall maintain certain records, books and documents.

The DESIGN SECTION ENGINEER shall maintain in the State of Illinois, for a minimum of five years from the latter of the date of completion of the CONTRACT or the date of final payment under the CONTRACT, adequate books, records, and supporting documents from an accounting system maintained in accordance with generally accepted accounting principles to verify the amounts, recipients, uses and methods of all disbursements of funds passing in conjunction with the CONTRACT. The five year record maintenance period shall be extended for the duration of any audit in progress at the time of that period's expiration. The DESIGN SECTION ENGINEER shall at its own expense make such records available in a timely manner for inspection and audit (including copies and extracts of records) as required by the Auditor General and other State Auditors, the Chief Procurement Officer for General Services, the Illinois Department of Transportation, and the TOLLWAY's Inspector General, Internal Audit or other TOLLWAY agents at all reasonable times and without prior notice. For purposes of this section, "timeliness" will be considered production within the time period specified by the Auditor General and other State Auditors, the Chief Procurement Officer for General Services, the Illinois Department of Transportation and the TOLLWAY's Inspector General, Internal Audit or other TOLLWAY agents, but no later than thirty days after a request for records being made unless otherwise agreed to by the parties. The DESIGN SECTION ENGINEER agrees to cooperate fully with any audit conducted by the Auditor General and other State Auditors, the Chief Procurement Officer for General Services, the Illinois Department of Transportation and the TOLLWAY's Inspector General, Internal Audit or other TOLLWAY agents, and to provide full access to all relevant materials. The auditors reserve the right to enter the DESIGN SECTION ENGINEER's place of business in order to audit the records. If they are not produced in a timely manner by the DESIGN SECTION ENGINEER, then the DESIGN SECTION ENGINEER shall reimburse the TOLLWAY or other State agency for the travel

expenses of its auditors in the event that this right is invoked.

The obligations of this Section shall be explicitly included in any subcontracts or agreements formed between the DESIGN SECTION ENGINEER and any subcontractors or suppliers of goods and services to the extent that those subcontracts or agreements relate to fulfillment of the DESIGN SECTION ENGINEER's obligations to the TOLLWAY. Such subcontractor shall be required to comply with the terms and conditions of this Section and the TOLLWAY shall be entitled to enforce a breach of that contract.

Any audit adjustment will be submitted on a final invoice for any underpayment or overpayment to the DESIGN SECTION ENGINEER or its subcontractors. The DESIGN SECTION ENGINEER shall promptly reimburse the TOLLWAY for any overpayment, or the TOLLWAY at its option may deduct any overpayment from any funds due the DESIGN SECTION ENGINEER, whether those funds are due under this contract or other contracts to which the DESIGN SECTION ENGINEER is a party either directly with the TOLLWAY or as a subcontractor. In the event the DESIGN SECTION ENGINEER fails or refuses to reimburse the TOLLWAY for an overpayment, the DESIGN SECTION ENGINEER shall be responsible for all costs, including attorney fees, incurred by the TOLLWAY to collect such overpayment.

Failure to maintain or make available the books, records, and supporting documents required by this Section shall establish a presumption in favor of the TOLLWAY for recovery of any funds paid by the TOLLWAY under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.

The DESIGN SECTION ENGINEER shall reimburse the TOLLWAY for the total costs of an audit that identifies significant findings that would benefit the TOLLWAY, including but not limited to reasonable attorney's fees and other expenses. Significant findings for the purposes of this provision shall be identified as an amount in excess of \$50,000 in aggregate of the audit report or findings of material performance or compliance deficiencies.

If the DESIGN SECTION ENGINEER fails to comply with these requirements, the DESIGN SECTION ENGINEER may be disqualified or suspended from bidding on or working on future contracts.

ARTICLE V

Compensation

The upper limit of compensation for said supplemental Services for Contract No. **I-17-4303 for Tri-State Tollway, Roadway Reconstruction and Bridge Rehabilitation, O'Hare Oasis (Mile Post 37.8) to Balmoral Avenue (Mile Post 40.0)** performed by the DESIGN SECTION ENGINEER under the Original Agreement and including the services set forth herein, is hereby increased from **\$6,700,000.00** by **\$970,000.00** to **\$7,670,000.00**.

ARTICLE VI

Report of a Change in Circumstances

The DESIGN SECTION ENGINEER agrees to report to the TOLLWAY as soon as practically possible, but no later than 21 days following any change in facts or circumstances that might impact the DESIGN SECTION ENGINEER's ability to satisfy its legal or contractual responsibilities and obligations under this contract. Required reports include, but are not limited to changes in the DESIGN SECTION ENGINEER's Certification/Disclosure Forms, the DESIGN SECTION ENGINEER's IDOT pre-qualification, or any certification or licensing required for this project. Additionally, the DESIGN SECTION ENGINEER agrees to report to the Tollway within the above timeframe any arrests, indictments, convictions or other matters involving the DESIGN SECTION ENGINEER, or any of its principals, that might occur while this contract is in effect. This reporting requirement does not apply to common offenses, including but not limited to minor traffic/vehicle offenses.

Further, the DESIGN SECTION ENGINEER agrees to incorporate substantially similar reporting requirements into the terms of any and all subcontracts relating to work performed under this agreement. The DESIGN SECTION ENGINEER agrees to forward or relay to the Tollway any reports received from subcontractors pursuant to this paragraph within 21 days.

Finally, the DESIGN SECTION ENGINEER acknowledges and agrees that the failure of the DESIGN SECTION ENGINEER to comply with this reporting requirement shall constitute a material breach of contract which may result in this contract being declared void.

ARTICLE VII

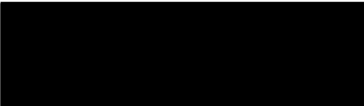
EXPATRIATED ENTITIES


Except in limited circumstances, no business or member of a unitary business group, as defined in the Illinois Income Tax Act, shall submit a bid for or enter into a contract with a State agency if that business or any member of the unitary business group is an expatriated entity.


IN WITNESS WHEREOF, the parties hereto have executed this **FIRST SUPPLEMENTAL AGREEMENT for I-17-4303** the day and year first above written.

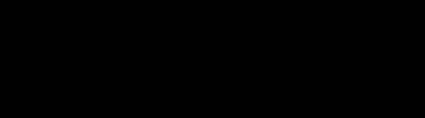
THE ILLINOIS STATE TOLL
HIGHWAY AUTHORITY

By  1/15/19
Chair/Executive Director-Signature Date
Robert Schillerstrom/Elizabeth Gorman

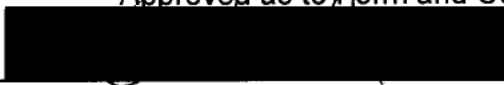
**BOWMAN, BARRETT &
ASSOCIATES INC. /
CHRISTOPHER B. BURKE
ENGINEERING LTD.**
 10/25/18
President-Signature Date
Bowman, Barrett & Associates, Inc.

JAMES M. DAUM
Printed Name as Signed Above
 10/25/18
President-Signature Date
Christopher B. Burke Engineering LTD.

APPROVED:
 1-2-19
Chief Financial Officer – Signature Date
Michael Colsch

APPROVED:
 12/21/18
Acting General Counsel – Signature Date
Elizabeth Oplawski

Christopher B Burke
Printed Name as Signed Above

Approved as to Form and Constitutionality
 12-20-18
Attorney General, State of Illinois – Robert Lane - Signature Date

**PROPOSAL
TO THE
ILLINOIS STATE TOLL HIGHWAY AUTHORITY
FOR SUPPLEMENTAL DESIGN SECTION ENGINEER SERVICES**

FOR CONTRACT NUMBER I-17-4303

This proposal, dated October 1, 2018, is submitted by Bowman, Barrett & Associates Inc. / Christopher B. Burke Engineering Ltd. of Chicago, Illinois for Design Section Engineer's Service.

DESCRIPTION/LOCATION OF DESIGN SECTION

The location of the construction Contract I-17-4303 for which we propose to provide Design Section Engineering Services is Tri-State Tollway, Roadway Reconstruction and Bridge Rehabilitation, O'Hare Oasis (M.P. 37.8) to Balmoral Avenue (M.P. 40.0)., in Cook, DuPage County (Counties), Illinois.

REAFFIRMATION OF ORIGINAL AGREEMENT

All terms of the original agreement and any amendments thereto are hereby reaffirmed except as herein modified.

SCOPE OF SUPPLEMENTAL DESIGN ENGINEERING SERVICES

The Supplemental Engineering Services, more fully detailed in ***Exhibit F***, attached hereto, will be executed in conformance with the terms contained in the original agreement for DESIGN SECTION ENGINEER's Services except where herein modified.

FEE PROPOSAL

The DESIGN SECTION ENGINEER shall be compensated for these Supplemental Engineering Services on the following basis:

**PAYROLL COST TIMES A MULTIPLIER, PLUS REIMBURSEMENT OF
CERTAIN DIRECT EXPENSES, WITH AN UPPER LIMIT OF COMPENSATION.**

PAYROLL COSTS AND MULTIPLIER - During the course of the project, compensation shall be equal to Actual Direct Labor Costs (less overtime premium) multiplied by a factor of 2.80 to compensate for **Payroll Burden and Fringe Costs, Overhead and**

Miscellaneous Indirect Costs, and Profit. This factor shall be used for periodic invoicing during the project.

AGREEMENT LIMITS

The following limits contained in the existing agreement are amended as follows:

The Upper Limit Compensation shall be increased

from \$ 6,700,000.00 by \$ 970,000.00 to \$ 7,670,000.00.

RECORD RETENTION AND AUDIT - In compliance with the Illinois Procurement Code (30 Ill. Comp. Stat. 500/20-65) and rules promulgated thereunder, every CONTRACT for goods and services shall provide that the contractor shall maintain certain records, books and documents.

The DESIGN SECTION ENGINEER shall maintain in the State of Illinois, for a minimum of five years from the latter of the date of completion of the CONTRACT or the date of final payment under the CONTRACT, adequate books, records, and supporting documents from an accounting system maintained in accordance with generally accepted accounting principles to verify the amounts, recipients, uses and methods of all disbursements of funds passing in conjunction with the CONTRACT. The five year record maintenance period shall be extended for the duration of any audit in progress at the time of that period's expiration. The DESIGN SECTION ENGINEER shall at its own expense make such records available in a timely manner for inspection and audit (including copies and extracts of records) as required by the Auditor General and other State Auditors, Chief Procurement Officer, the Illinois Department of Transportation, and the TOLLWAY's Inspector General, Internal Audit or other TOLLWAY agents at all reasonable times and without prior notice. For purposes of this section, "timeliness" will be considered production within the time period specified by the Auditor General and other State Auditors, Chief Procurement Officer, the Illinois Department of Transportation and the TOLLWAY's Inspector General, Internal Audit or other TOLLWAY agents, but no later than thirty days after a request for records being made unless otherwise agreed to by the parties. The DESIGN SECTION ENGINEER agrees to cooperate fully with any audit conducted by the Auditor General and other State Auditors, Chief Procurement Officer, the Illinois Department of Transportation and the TOLLWAY's Inspector General, Internal Audit or other TOLLWAY agents, and to provide full access to all relevant materials. The auditors reserve the right to enter the DESIGN SECTION ENGINEER's place of business in order to audit the records. If they are not produced in a timely manner by the DESIGN SECTION ENGINEER, then the DESIGN SECTION ENGINEER shall reimburse the TOLLWAY or other State agency for the travel expenses of its auditors in the event that this right is invoked.

The obligations of this Section shall be explicitly included in any subcontracts or agreements formed between the DESIGN SECTION ENGINEER and any subcontractors or suppliers of goods and services to the extent that those subcontracts or agreements

relate to fulfillment of the DESIGN SECTION ENGINEER's obligations to the TOLLWAY. Such subcontractor shall be required to comply with the terms and conditions of this Section and the TOLLWAY shall be entitled to enforce a breach of that contract.

Any audit adjustment will be submitted on a final invoice for any underpayment or overpayment to the DESIGN SECTION ENGINEER or its subcontractors. The DESIGN SECTION ENGINEER shall promptly reimburse the TOLLWAY for any overpayment, or the TOLLWAY at its option may deduct any overpayment from any funds due the DESIGN SECTION ENGINEER, whether those funds are due under this contract or other contracts to which the DESIGN SECTION ENGINEER is a party either directly with the TOLLWAY or as a subcontractor. In the event the DESIGN SECTION ENGINEER fails or refuses to reimburse the TOLLWAY for an overpayment, the DESIGN SECTION ENGINEER shall be responsible for all costs, including attorney fees, incurred by the TOLLWAY to collect such overpayment.

Failure to maintain or make available the books, records, and supporting documents required by this Section shall establish a presumption in favor of the TOLLWAY for recovery of any funds paid by the TOLLWAY under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.

The DESIGN SECTION ENGINEER shall reimburse the TOLLWAY for the total costs of an audit that identifies significant findings that would benefit the TOLLWAY, including but not limited to reasonable attorney's fees and other expenses. Significant findings for the purposes of this provision shall be identified as an amount in excess of \$50,000 in aggregate of the audit report or findings of material performance or compliance deficiencies.

If the DESIGN SECTION ENGINEER fails to comply with these requirements, the DESIGN SECTION ENGINEER may be disqualified or suspended from bidding on or working on future contracts.

INVOICES - INVOICES will be submitted monthly on forms provided to the DESIGN SECTION ENGINEER at the start of the project. The invoice cutoff date will coincide with the Monthly Progress Report. All payroll documentation and costs relating to this project will be available for audit by the TOLLWAY upon request.

INVOICES for services performed and expenses incurred through December 31st must be submitted to the TOLLWAY no later than February 28th of the subsequent year. The DESIGN SECTION ENGINEER expressly acknowledges that the TOLLWAY, at its discretion, reserves the right not to honor any delinquent INVOICE if the DESIGN SECTION ENGINEER fails to obtain prior written approval from the Chief Engineering Officer for an alternative INVOICE submission date. DESIGN SECTION ENGINEER will request such approval or an INVOICE submittal extension no later than February 15th.

PARTIAL PAYMENTS

Partial payments to the DESIGN SECTION ENGINEER shall be made in accordance with the terms of the original agreement except that reference to the Total Estimated Fee and Upper Limit of Compensation, shall be interpreted to be the Amended Total Estimated Fee and Amended Upper Limit of Compensation.

REVISIONS TO SUPPLEMENTAL SCOPE OF WORK

The scope of supplemental work shall be as detailed in *Exhibit F*. All requirements of the SCOPE OF WORK contained in the original agreement for services shall apply to this supplemental work as well.

**THIS PROPOSAL FOR SUPPLEMENTAL DESIGN SECTION ENGINEERING
SERVICES FOR**

CONTRACT I-17-4303

SUBMITTED BY:

FIRM NAME: BBACBE TM (Bowman, Barrett & Associates Inc.)

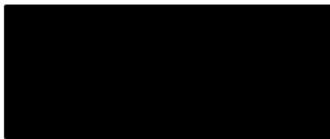
ADDRESS: 130 E. Randolph Street, Ste 2650

**CITY, STATE &
ZIP CODE:** Chicago, Illinois 60601

TELEPHONE: 312-228-0100

FACSIMILE: 312-228-0706

SIGNED BY:



PRINTED NAME: D. David Moses, PE

TITLE: Senior Vice President



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
10/24/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).


PRODUCER Mesirow Insurance Services, Inc. 353 N. Clark St 11th fl Chicago, IL 60654	CONTACT NAME: Megan Jolly PHONE (A/C, No, Ext): (312) 595-6000 E-MAIL ADDRESS: Megan.Jolly@alliant.com FAX (A/C, No):
	INSURER(S) AFFORDING COVERAGE
INSURED Bowman, Barrett & Assoc. 130 East Randolph Suite 2650 Chicago, IL 60601	INSURER A: ACE American Insurance Company NAIC # 22667
	INSURER B:
	INSURER C:
	INSURER D:
	INSURER E:
	INSURER F:

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE \$
	CLAIMS-MADE OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$
							MED EXP (Any one person) \$
							PERSONAL & ADV INJURY \$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE \$
	POLICY PROJECT LOC						PRODUCTS - COMP/OP AGG \$
	OTHER:						\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) \$
	ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY						BODILY INJURY (Per person) \$
	SCHEDULED AUTOS NON-OWNED AUTOS ONLY						BODILY INJURY (Per accident) \$
							PROPERTY DAMAGE (Per accident) \$
							\$
	UMBRELLA LIAB						EACH OCCURRENCE \$
	EXCESS LIAB						AGGREGATE \$
	DED RETENTION \$						\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						PER STATUTE OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E L EACH ACCIDENT \$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E L DISEASE - EA EMPLOYEE \$
							E L DISEASE - POLICY LIMIT \$
A	Professional Liab.			G24575743 010	07/25/2018	05/25/2019	Claims Made
							5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Re: Phase II Engineering services for Tri-State Tollway (I-294) reconstruction between O'Hare Oasis and Balmoral Ave.
Illinois Tollway Contract No. I-17-4303

CERTIFICATE HOLDER Illinois State Toll Highway Authority 2700 Ogden Avenue Downers Grove, IL 60515	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
--	--



ADDITIONAL REMARKS SCHEDULE

AGENCY Mesirow Insurance Services, Inc.		NAMED INSURED Bowman, Barrett & Assoc. 130 East Randolph Suite 2650 Chicago, IL 60601	
POLICY NUMBER SEE PAGE 1		EFFECTIVE DATE: SEE PAGE 1	
CARRIER SEE PAGE 1	NAIC CODE SEE P 1		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

Description of Operations/Locations/Vehicles:
automobile liability on a primary/non-contributory basis as required as
required by written contract:

Illinois State Toll Highway Authority

Christopher B Burke Engineering

A Waiver of Subrogation applies in favor of the additional insureds with
respects to the General Liability, Auto Liability and Workers Compensation
policies as required by written contract.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BUSINESS AUTO EXTENSION ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

GENERAL DESCRIPTION OF COVERAGE – This endorsement broadens coverage. However, coverage for any injury, damage or medical expenses described in any of the provisions of this endorsement may be excluded or limited by another endorsement to the Coverage Part, and these coverage broadening provisions do not apply to the extent that coverage is excluded or limited by such an endorsement. The following listing is a general coverage description only. Limitations and exclusions may apply to these coverages. Read all the provisions of this endorsement and the rest of your policy carefully to determine rights, duties, and what is and is not covered.

- | | |
|--|--|
| <ul style="list-style-type: none"> A. BROAD FORM NAMED INSURED B. BLANKET ADDITIONAL INSURED C. EMPLOYEE HIRED AUTO D. EMPLOYEES AS INSURED E. SUPPLEMENTARY PAYMENTS – INCREASED LIMITS F. HIRED AUTO – LIMITED WORLDWIDE COVERAGE – INDEMNITY BASIS G. WAIVER OF DEDUCTIBLE – GLASS | <ul style="list-style-type: none"> H. HIRED AUTO PHYSICAL DAMAGE – LOSS OF USE – INCREASED LIMIT I. PHYSICAL DAMAGE – TRANSPORTATION EXPENSES – INCREASED LIMIT J. PERSONAL PROPERTY K. AIRBAGS L. NOTICE AND KNOWLEDGE OF ACCIDENT OR LOSS M. BLANKET WAIVER OF SUBROGATION N. UNINTENTIONAL ERRORS OR OMISSIONS |
|--|--|

PROVISIONS

A. BROAD FORM NAMED INSURED

The following is added to Paragraph A.1., **Who Is An Insured**, of SECTION II – COVERED AUTOS LIABILITY COVERAGE:

Any organization you newly acquire or form during the policy period over which you maintain 50% or more ownership interest and that is not separately insured for Business Auto Coverage. Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier.

B. BLANKET ADDITIONAL INSURED

The following is added to Paragraph c. in A.1., **Who Is An Insured**, of SECTION II – COVERED AUTOS LIABILITY COVERAGE:

Any person or organization who is required under a written contract or agreement between you and that person or organization, that is signed and executed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to be named as an additional insured is an "insured" for Covered Autos Liability Coverage, but only for damages to which

this insurance applies and only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Section II.

C. EMPLOYEE HIRED AUTO

1. The following is added to Paragraph A.1., **Who Is An Insured**, of SECTION II – COVERED AUTOS LIABILITY COVERAGE:

An "employee" of yours is an "insured" while operating an "auto" hired or rented under a contract or agreement in an "employee's" name, with your permission, while performing duties related to the conduct of your business.

2. The following replaces Paragraph b. in B.5., **Other Insurance**, of SECTION IV – BUSINESS AUTO CONDITIONS:

b. For Hired Auto Physical Damage Coverage, the following are deemed to be covered "autos" you own:

- (1) Any covered "auto" you lease, hire, rent or borrow; and
- (2) Any covered "auto" hired or rented by your "employee" under a contract in an "employee's" name, with your



COMMERCIAL AUTO

permission, while performing duties related to the conduct of your business.

However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto".

D. EMPLOYEES AS INSURED

The following is added to Paragraph A.1., **Who Is An Insured**, of SECTION II – COVERED AUTOS LIABILITY COVERAGE:

Any "employee" of yours is an "insured" while using a covered "auto" you don't own, hire or borrow in your business or your personal affairs.

E. SUPPLEMENTARY PAYMENTS – INCREASED LIMITS

1. The following replaces Paragraph A.2.a.(2), of SECTION II – COVERED AUTOS LIABILITY COVERAGE:

(2) Up to \$3,000 for cost of bail bonds (including bonds for related traffic law violations) required because of an "accident" we cover. We do not have to furnish these bonds.

2. The following replaces Paragraph A.2.a.(4), of SECTION II – COVERED AUTOS LIABILITY COVERAGE:

(4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to \$500 a day because of time off from work.

F. HIRED AUTO – LIMITED WORLDWIDE COVERAGE – INDEMNITY BASIS

The following replaces Subparagraph (5) in Paragraph B.7., **Policy Period, Coverage Territory**, of SECTION IV – BUSINESS AUTO CONDITIONS:

(5) Anywhere in the world, except any country or jurisdiction while any trade sanction, embargo, or similar regulation imposed by the United States of America applies to and prohibits the transaction of business with or within such country or jurisdiction, for Covered Autos Liability Coverage for any covered "auto" that you lease, hire, rent or borrow without a driver for a period of 30 days or less and that is not an "auto" you lease, hire, rent or borrow from any of your "employees", partners (if you are a partnership), members (if you are a limited liability company) or members of their households.

(a) With respect to any claim made or "suit" brought outside the United States of America, the territories and possessions of the United States of America, Puerto Rico and Canada:

(i) You must arrange to defend the "insured" against, and investigate or settle any such claim or "suit" and keep us advised of all proceedings and actions.

(ii) Neither you nor any other involved "insured" will make any settlement without our consent.

(iii) We may, at our discretion, participate in defending the "insured" against, or in the settlement of, any claim or "suit".

(iv) We will reimburse the "insured" for sums that the "insured" legally must pay as damages because of "bodily injury" or "property damage" to which this insurance applies, that the "insured" pays with our consent, but only up to the limit described in Paragraph C., **Limits Of Insurance**, of SECTION II – COVERED AUTOS LIABILITY COVERAGE.

(v) We will reimburse the "insured" for the reasonable expenses incurred with our consent for your investigation of such claims and your defense of the "insured" against any such "suit", but only up to and included within the limit described in Paragraph C., **Limits Of Insurance**, of SECTION II – COVERED AUTOS LIABILITY COVERAGE, and not in addition to such limit. Our duty to make such payments ends when we have used up the applicable limit of insurance in payments for damages, settlements or defense expenses.

(b) This insurance is excess over any valid and collectible other insurance available to the "insured" whether primary, excess, contingent or on any other basis.

(c) This insurance is not a substitute for required or compulsory insurance in any country outside the United States, its territories and possessions, Puerto Rico and Canada.

COMMERCIAL AUTO

such contract. The waiver applies only to the person or organization designated in such contract.

N. UNINTENTIONAL ERRORS OR OMISSIONS

The following is added to Paragraph **B.2., Concealment, Misrepresentation, Or Fraud,** of **SECTION IV – BUSINESS AUTO CONDITIONS:**

The unintentional omission of, or unintentional error in, any information given by you shall not prejudice your rights under this insurance. However this provision does not affect our right to collect additional premium or exercise our right of cancellation or non-renewal.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED – WRITTEN CONTRACTS (ARCHITECTS, ENGINEERS AND SURVEYORS)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

1. The following is added to SECTION II – WHO IS AN INSURED:

Any person or organization that you agree in a "written contract requiring insurance" to include as an additional insured on this Coverage Part, but:

- a. Only with respect to liability for "bodily injury", "property damage" or "personal injury"; and
- b. If, and only to the extent that, the injury or damage is caused by acts or omissions of you or your subcontractor in the performance of "your work" to which the "written contract requiring insurance" applies. The person or organization does not qualify as an additional insured with respect to the independent acts or omissions of such person or organization.

The insurance provided to such additional insured is limited as follows:

- c. In the event that the Limits of Insurance of this Coverage Part shown in the Declarations exceed the limits of liability required by the "written contract requiring insurance", the insurance provided to the additional insured shall be limited to the limits of liability required by that "written contract requiring insurance". This endorsement shall not increase the limits of insurance described in Section III – Limits Of Insurance.
- d. This insurance does not apply to the rendering of or failure to render any "professional services" or construction management errors or omissions.
- e. This insurance does not apply to "bodily injury" or "property damage" caused by "your work" and included in the "products-completed operations hazard" unless the "written contract requiring insurance" specifically requires you to provide such coverage for that additional insured, and then the insurance provided to the additional insured ap-

plies only to such "bodily injury" or "property damage" that occurs before the end of the period of time for which the "written contract requiring insurance" requires you to provide such coverage or the end of the policy period, whichever is earlier.

2. The following is added to Paragraph 4.a. of SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS:

The insurance provided to the additional insured is excess over any valid and collectible "other insurance", whether primary, excess, contingent or on any other basis, that is available to the additional insured for a loss we cover. However, if you specifically agree in the "written contract requiring insurance" that this insurance provided to the additional insured under this Coverage Part must apply on a primary basis or a primary and non-contributory basis, this insurance is primary to "other insurance" available to the additional insured which covers that person or organization as a named insured for such loss, and we will not share with that "other insurance". But this insurance provided to the additional insured still is excess over any valid and collectible "other insurance", whether primary, excess, contingent or on any other basis, that is available to the additional insured when that person or organization is an additional insured under any "other insurance".

3. The following is added to SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS:

Duties Of An Additional Insured

As a condition of coverage provided to the additional insured:

- a. The additional insured must give us written notice as soon as practicable of an "occurrence" or an offense which may result in a claim. To the extent possible, such notice should include:

COMMERCIAL GENERAL LIABILITY

- i. How, when and where the "occurrence" or offense took place;
 - ii. The names and addresses of any injured persons and witnesses; and
 - iii. The nature and location of any injury or damage arising out of the "occurrence" or offense.
- b. If a claim is made or "suit" is brought against the additional insured, the additional insured must:
- i. Immediately record the specifics of the claim or "suit" and the date received; and
 - ii. Notify us as soon as practicable.
- The additional insured must see to it that we receive written notice of the claim or "suit" as soon as practicable.
- c. The additional insured must immediately send us copies of all legal papers received in connection with the claim or "suit", cooperate with us in the investigation or settlement of the claim or defense against the "suit", and otherwise comply with all policy conditions.
- d. The additional insured must tender the defense and indemnity of any claim or "suit" to

any provider of other insurance which would cover the additional insured for a loss we cover. However, this condition does not affect whether this insurance provided to the additional insured is primary to that other insurance available to the additional insured which covers that person or organization as a named insured.

4. The following is added to the **DEFINITIONS** Section:
- "Written contract requiring insurance" means that part of any written contract or agreement under which you are required to include a person or organization as an additional insured on this Coverage Part, provided that the "bodily injury" and "property damage" occurs and the "personal injury" is caused by an offense committed:
- a. After the signing and execution of the contract or agreement by you;
 - b. While that part of the contract or agreement is in effect; and
 - c. Before the end of the policy period.



Contract Information Sheet

Complete the following information and it will be populated on every exhibit.

Joint Venture
/ Team:

BBACBE_TM

Lead Partner:

Bowman, Barrett & Associates Inc.

2nd Partner:

Christopher B. Burke Engineering Ltd.

3rd Partner:

Contract Number:

I-17-4303

Proposal Date:

10/1/2018

Exhibit Pointers

Editable cells in each exhibit are underlined in red

Notes and guidance for each exhibit are on the right of the exhibits in yellow text boxes

A full set of instructions to complete the exhibits is available on the Tollway's website

Contract No.: I-17-4303

Lead Partner: Bowman, Barrett & Associates Inc.

EXHIBIT B: FEE CALCULATIONS

A. DIRECT LABOR (without overtime)

$$\begin{array}{r} \underline{2,234.00} \\ \text{(Total Work Hours} \\ \text{from Exhibit C-2)} \end{array} \times \begin{array}{r} \$ \quad 49.00 \\ \text{(Average Hourly} \\ \text{Rate from Exhibit} \\ \text{C-2)} \end{array} = \text{TOTAL DIRECT SALARY } \$ \quad \underline{109,466.00}$$

Multiplier to be used on this project: 2.80
Allowable Multiplier = (2.8 DSE) (2.5 or 2.8 CM) (2.5 PMO)

DIRECT REGULAR SALARY TIMES MULTIPLIER \$ 306,504.80

B. REIMBURSABLE DIRECT COSTS NOT ELIGIBLE FOR PROFIT

(For Consultant listed above.)

TOTAL DIRECT COSTS \$132.19

C. SERVICES BY OTHERS

Total Allowable Fee DBE/MBE/WBE Subconsultant (from Exhibit H) See JV summary

Total Allowable Fee Non-DBE/MBE/WBE Subconsultant (from Exhibit H (cont)) See JV summary

TOTAL SERVICES BY OTHERS See JV summary

D. ADDITIONAL SERVICES (Prime Consultant)

See JV summary
(Requires prior authorization before use)

ADDITIONAL SERVICES (Subconsultants)

See JV summary
(Requires prior authorization before use)

TOTAL ADDITIONAL SERVICES See JV summary
(Requires prior authorization before use)

E. MAXIMUM ALLOWABLE FEE (Upper Limit of Compensation)

\$ 306,636.99

Contract No.: I-17-4303

2nd Partner: Christopher B. Burke Engineering Ltd.

EXHIBIT B: FEE CALCULATIONS

A. DIRECT LABOR (without overtime)

<u>2,505.00</u>	X	\$ <u>49.00</u>	=	TOTAL DIRECT SALARY \$	<u>122,745.00</u>
(Total Work Hours from Exhibit C-2)		(Average Hourly Rate from Exhibit C-2)			

Multiplier to be used on this project:	<u>2.80</u>
Allowable Multiplier = (2.8 DSE) (2.5 or 2.8 CM) (2.5 PMO)	

DIRECT REGULAR SALARY TIMES MULTIPLIER	\$ <u>343,686.00</u>
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B. REIMBURSABLE DIRECT COSTS NOT ELIGIBLE FOR PROFIT

(For Consultant listed above.)

TOTAL DIRECT COSTS _____

C. SERVICES BY OTHERS

Total Allowable Fee DBE/MBE/WBE Subconsultant (from Exhibit H) See JV summary

Total Allowable Fee Non-DBE/MBE/WBE Subconsultant (from Exhibit H (cont)) See JV summary

TOTAL SERVICES BY OTHERS See JV summary

D. ADDITIONAL SERVICES (Prime Consultant)

See JV summary
(Requires prior authorization before use)

ADDITIONAL SERVICES (Subconsultants)

See JV summary
(Requires prior authorization before use)

TOTAL ADDITIONAL SERVICES See JV summary
(Requires prior authorization before use)

E. MAXIMUM ALLOWABLE FEE (Upper Limit of Compensation)

\$ 343,686.00

EXHIBIT F

CONTRACT I-17-4303

(Bowman, Barrett & Associates Inc. / Christopher B. Burke Engineering Ltd.)

SCOPE OF SERVICES

Design Contract Supplemental Items:

Tasks within the Phase II Design services have resulted in changes in the character or complexity of the scope of work, and include items listed below.

Advanced Engineering Studies (AES): Original budget and scope was developed based on availability of AES documents containing engineering designs, drawings, CADD files, calculations, and other documents developed to a 30% completion level, and included efforts for review and verification of the AES documents. The Project schedule change resulted in partially completed AES documents being transferred to the BBACBE team for direct development into Phase II construction documents. This change added additional effort for the BBACBE team to complete development of partially completed AES design concepts, investigate Contract Package alternatives and related maintenance of traffic concepts. This work needs to be done expeditiously to meet the design schedule.

Bridge Deck Replacements: Original budget included patching and overlay work on two of the three bridge decks over Irving Park Road and both bridge decks over Lawrence Avenue. These bridge decks now consist of full deck replacements for design development. This task was not known at the time the original contract was negotiated and must be performed expeditiously to meet the design schedule.

Alternate 8R vs. Alternate 9R: Original budget was developed based on improvements shown within the Phase I Alternate 8R. Subsequently, a new Phase I Alternate 9R was developed and selected as the preferred alternate. This Alternate 9R includes additional improvements requiring additional design effort for roadway, structures (retaining walls), drainage, collector-distributor (C-D) roadway system for southbound between Plaza 33 and the O'Hare Oasis, and lane and ramp modifications in the northbound direction. Alternate 9R design concept was memorialized by the Phase I DSE and did not include 30% level AES design documents. Verifying and developing the 9R Alternative concept details will be performed by the BBACBE team.

Median Flex Lane: After the 60% submittal under this contract, direction was received to meet modified flex lane criteria, requiring additional drainage and roadway design efforts.

Median Reconstruction: Original budget was developed based on patching and rehabilitation of the median. Construction scope for the median now consists of complete reconstruction, requiring additional design and detailing efforts.

ITS: Original budget was limited to effort to draft details and locations developed by others under a separate corridor-wide ITS contract. Due to schedule acceleration it was determined that the

corridor-wide ITS contract would not be available for expedited use, requiring additional efforts under our contract to design and detail ITS elements and infrastructure within our section. These additional efforts are required for multiple ITS systems, including:

- a. **Temporary:** relocation of the Illinois Tollway fiber optic duct-bank and the Illinois Tollway "Overbuild" fiber optic duct-bank to ensure uninterrupted functionality through both 2018 and 2019 construction contracts.
- b. **Permanent:** renewal of ITS equipment infrastructure and ITS backbone duct-bank throughout section limits.
- c. **ATM:** layout and design of foundation locations for Automated Traffic Management (ATM) structures, including coordinating locations with proposed and existing Overhead Sign Structures (OHSS).

Plaza 33 Modifications: Original budget included no work on Plaza 33. Through the course of design development, modifications to Plaza 33 became necessary to accommodate a 5th southbound lane through the Plaza 33 Open Road Tolling (ORT) infrastructure. Additional efforts include extension and modification of camera, antenna support systems and Violation Enforcement System, additional axle detector loops, and the creation of a service roadway allowing vehicular access to ORT equipment cabinets from the cash-lane side of the Plaza.

Lighting Photometrics: Original budget was based on lighting photometric calculations being performed by others under a separate corridor-wide contract. Due to schedule acceleration it is necessary for photometric calculations for both temporary lighting and permanent lighting to be performed under this contract.

Balmoral Bridge Repairs: During inspection of the Balmoral Bridge new impact damage was discovered on one of the beams requiring repair plans under our contract.

Overhead Sign Structure Layout: Original budget was based on corridor-wide determination of OHSS locations by others. Due to schedule acceleration, development of these locations was moved into this contract, including removal of bridge mounted signs at Balmoral Avenue.

Geotechnical: Additional OHSS and ATM locations require additional geotechnical borings.

Retaining Wall Impacts: The Tollway Design Memorandum 18-02 released on May 25, 2018 increases shoulder widths along retaining walls. This will need to be incorporated accordingly. The Alternative 9R also includes two additional retaining walls not included in the original scope of work.

Plats & Legal Descriptions: Original budget included preparation of Right of Way (ROW) documents for all acquisitions planned within our section. Due to schedule acceleration, direction was received that ROW documents started under the Phase I contract would be completed by Phase I instead of our contract. This is a credit to the contract.

EXHIBIT H - SERVICES BY OTHERS

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

DBE/MBE/WBE SUBCONSULTANTS

<p>v 1 <u>American Survey & Engineering P.C.</u></p> <p>Direct Labor \$ 82,657.01</p> <p>Direct Costs _____</p> <p>Services by Others _____</p> <p>Additional Services ** _____</p> <p>Total this Subconsultant (ULC) \$ 82,657.01</p>	<p>7 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>v 2 <u>Environmental Design International</u></p> <p>Direct Labor \$ 189,000.00</p> <p>Direct Costs _____</p> <p>Services by Others _____</p> <p>Additional Services ** _____</p> <p>Total this Subconsultant (ULC) \$ 189,000.00</p>	<p>8 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>3 <u>O'Brien & Associates, Inc</u></p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>9 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>4 <u>Singh & Associates Inc.</u></p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>10 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>5 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>11 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>6 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>12 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>

** Additional services funds require prior authorization before use

TOTAL DBE/MBE/WBE Subconsultants: \$ 271,657.01

TOTAL Additional Services DBE/MBE/WBE Subconsultants: \$ -

TOTAL Allowable Fee DBE/MBE/WBE Subconsultants: \$ 271,657.01

DBE/MBE/WBE Percentage of Total Fee (includes Additional Services): 28.01%

DBE/MBE/WBE Percentage of Total Fee (does not include Additional Services): 28.01%

EXHIBIT H - SERVICES BY OTHERS (continued)

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

OTHER SUBCONSULTANTS (NOT DBE/MBE/WBE)

<p>1 <u>Burns & McDonnell</u></p> <hr/> <p>Direct Labor \$ 48,020.00</p> <p>Direct Costs _____</p> <p>Services by Others _____</p> <p>Additional Services ** _____</p> <p>Total this Subconsultant (ULC) \$ 48,020.00</p>	<p>6 _____</p> <hr/> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>2 _____</p> <hr/> <p>Direct Labor _____</p> <p>Direct Costs _____</p> <p>Services by Others _____</p> <p>Additional Services ** _____</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>7 _____</p> <hr/> <p>Direct Labor \$ -</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>3 _____</p> <hr/> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>8 _____</p> <hr/> <p>Direct Labor \$ -</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>4 _____</p> <hr/> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>9 _____</p> <hr/> <p>Direct Labor \$ -</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>5 _____</p> <hr/> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>10 _____</p> <hr/> <p>Direct Labor \$ -</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>

** Additional services funds require prior authorization before use

TOTAL Non-DBE/MBE/WBE Subconsultants: \$ 48,020.00

TOTAL Additional Services Non-DBE/MBE/WBE Subconsultants: \$ -

TOTAL Allowable Fee Non-DBE/MBE/WBE Subconsultants: \$ 48,020.00

Contract Information Sheet

Complete the following information and it will be populated on every exhibit.

Consultant Name: Bowman, Barrett & Associates Inc.

Contract Number: I-17-4303

Proposal Date: 10/1/2018

Exhibit Pointers Editable cells in each exhibit are underlined in red

Notes and guidance for each exhibit are on the right of the exhibits in yellow text boxes

A full set of instructions to complete the exhibits is available on the Tollway's website

Contract No.: I-17-4303 Consultant: Bowman, Barrett & Associates Inc.

Date: 10/1/2018

EXHIBIT C-1: PAYROLL CLASSIFICATION ESCALATION TABLE

CONTRACT TERM: 3 No. OF MONTHS
 SCHEDULED START DATE: 10/1/2018
 RAISE DATE: 10/1/2018
 PERCENT OF RAISE: 0%

ESCALATION PER YEAR Year 1 through 5

Date	Date	Date	Date	Date	Date
10/1/2018	-	10/1/2018	-	-	-
0.0	3.0	3.0	3.0	3.0	3.0
Factor First Period	Escalation Factor Second Period	Escalation Factor Third Period	Escalation Factor Fourth Period	Escalation Factor Fifth Period	
	100.00%				

ESCALATION PER YEAR Year 6 through 10

Date	Date	Date	Date	Date	Date
-	-	-	-	-	-
3.0	3.0	3.0	3.0	3.0	3.0
Escalation Factor Sixth Period	Escalation Factor Seventh Period	Escalation Factor Eighth Period	Escalation Factor Ninth Period	Escalation Factor Tenth Period	

The escalation factor for this project is: 100.00%

Contract No.: I-17-4303

Consultant: Bowman, Barrett & Associates Inc.

Date: 10/1/2018

Escalation Factor: 100.00%
(From Exhibit C-1)

EXHIBIT C-2: DIRECT LABOR CLASSIFICATION MAN-HOURS AND RATES										<u>DIRECT COST</u>	
										<u>OVERTIME PREMIUM</u>	
<p>Total Estimated Work Hours: 2,234.00</p> <p>Average Hourly Rate: \$49.00</p> <p>Total Direct Labor: \$109,466.00</p>										<p>Total O/T Hours:</p> <p>Average Premium O/T Hourly Rate:</p> <p>Total Overtime Premium:</p>	
Classification Eligible for Premium Overtime?	Tollway Classification	Tollway MINIMUM Hourly Rate for Classification	Tollway MAXIMUM Hourly Rate for Classification	Average Hourly Rate for Classification (See Note A to Right)	Escalated Average Hourly Rate for Classification (See Note B to Right)	Estimated Work Hours (Including Overtime)	Escalated Average Premium Overtime Hourly Rate (See Note C to Right)	Estimated Overtime Hours (Overtime Hours Only) (See Note D to Right)			
No	Principal	\$50.00	\$70.00	\$70.00	\$70.00	120.00					
No	Project Manager	\$40.00	\$70.00	\$69.17	\$69.17	490.00					
No	Senior Engineer/Planner	\$40.00	\$70.00	\$55.75	\$55.75	472.00					
No	Resident Engineer	\$40.00	\$70.00	\$47.33	\$47.33	35.00					
No	Project Engineer/Planner	\$25.00	\$60.00	\$39.83	\$39.83	392.00					
No	Staff Engineer/Planner	\$20.00	\$40.00	\$30.75	\$30.75	255.00					
No	Engineer /Accountant	\$20.00	\$60.00	\$33.50	\$33.50	170.00					
No	Senior Technical Specialist	\$25.00	\$60.00	\$40.83	\$40.83	115.00					
No	Technical Specialist	\$15.00	\$50.00	\$38.63	\$38.63	90.00					
No	Architect	\$30.00	\$70.00								
No	Realty Specialists	\$20.00	\$70.00								
No	Intern	\$8.25	\$20.00	\$18.00	\$18.00	75.00					
No	Admin/Clerical	\$8.25	\$40.00	\$26.00	\$26.00	20.00					

Contract No.: I-17-4303

Consultant: Bowman, Barrett & Associates Inc.

Date: 10/1/2018

EXHIBIT C-3: DIRECT LABOR EMPLOYEE CLASSIFICATION LIST

Tollway Classification	Consultant Classification (specific to each company)	Consultant Employee Name (SEE NOTE 1 TO RIGHT)	Range per Hour
Principal	Engineer VIII	Ross Anderson	\$50 - \$70
	Engineer VIII	James Daum	
Project Manager	Engineer VII	Donato Brescia	\$40 - \$70
	Engineer VII	Daniel Filice	
	Engineer VII	Elmer G. Hessenthaler	
	Engineer VII	Joseph Hosanna	
	Engineer VII	D. David Moses	
	Engineer VII	Jason Loo	
Senior Engineer/Planner	Engineer VI	John Leary	\$40 - \$70
	Engineer VI	James Outlaw	
	Engineer VI	Robert Rose	
	Engineer VI	Richard Rudnicki	
Resident Engineer	Engineer V	Jordan Christensen	\$40 - \$70
	Engineer V	Oscar Coronado	
	Engineer V	James Kibbons	
Project Engineer/Planner	Engineer IV	Rosalva Adan	\$25 - \$60
	Engineer IV	Bryan Crader	
	Engineer IV	Samaan Issa	
	Engineer IV	Octavio Lopez	
Staff Engineer/Planner	Engineer I/II	Domantas Darkus	\$20 - \$40
	Engineer I/II	Joshua Starzyk	
Engineer /Accountant	Engineer III	Emma Kay	\$20 - \$60
	Engineer III	Christine Rhoades	
Senior Technical Specialist	CADD Technician III	Raymond Davis	\$25 - \$60
	Arch/Eng Technician III	C. Edward Dersch	
	Arch/Eng Technician III	Laura Mueller	
	CADD Technician III	Eugene Panganiban	
	CADD Technician III	Marinela Reglos	

ALLOWABLE DIRECT COSTS

09.12.2018

Effective for contracts awarded on or after August 1, 2018, the following costs are allowable when requested by the Tollway and included in the contract. The costs are allowable when it is customary for the firm to bill for the cost and it can be itemized in the firm's billing and accounting systems.

Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to State rate maximum
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (up to State rate maximum)
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost
Air Fare	Coach Rate with 2 weeks advance purchase with ISTHA approval
Vehicles	
Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to State rate maximum
Vehicle Rental (including tolls)	Actual cost up to \$55/day
Vehicle Owned or Leased (does not include personal vehicles, not owned by the company) (includes tolls)	\$65/full day, \$32.50/half day (4 hours or less)
Parking	Actual Cost
Tolls (Personal Vehicles only)	Actual Cost
Overtime	Premium portion
Shift Differential	Actual cost (based on firm's policy)
Overnight Delivery/Postage Courier Service	Actual Cost
Copies of Deliverables	Actual Cost
Specific Insurance – required for project	Actual Cost
CADD	Actual Costs (Maximum of \$450.00/Mo)
Monuments – Permanent	Actual Cost
Advertisements	Actual Cost
2-way Radio	Actual cost (Survey or Phase III only)
Telephone Usage	Actual Cost (Traffic System Monitoring Only)
Web Site	Actual Cost
Facility Rental for Public Meetings & Exhibits/Rendering & AV Equipment/Transcriptions	Actual Cost
Recording Fees	Actual Cost
Courthouse Fees	Actual Cost
Testing of Soil Samples	Actual Cost
Lab Services (excluding Phase III normal construction inspection such as beam breaks, cylinder breaks, pavement cores)	Actual Cost
Equipment rental specific for project (snooper for bridge inspection, noise meter, etc.)	Actual Cost
Specialized equipment – on an as needed basis with prior approval	Actual Cost
Traffic Systems	Actual Cost
Storm sewer cleaning and televising	Actual Cost
Traffic control and protection	Actual Cost
Aerial photography, mapping and drone usage	Actual Cost
Utility exploratory trenching	Actual Cost

ALLOWABLE DIRECT COSTS

- *website for State Reimbursement Rates_
<http://www2.illinois.gov/cms/Employees/travel/Pages/TravelReimbursement.aspx>
- On all agreements authorization after January 1, 2005, GPS Equipment is considered a “tool of the trade.”

ALLOWABLE DIRECT COSTS

The number of days will be calculated as follows for extended stay **- Weekly (vehicle and hotel) – Number of days on job site plus one day to travel to and from job site per week.

**Extended Stay Status applies to individuals on the project over 20 Consecutive working days. The decision whether individuals will stay over the weekend will be made after the Contractor's schedule is available and shall be made jointly by the Consultant Liaison and the Tollway project manager.

NOTES:

- For CM contracts, beam and cylinder breaks are not reimbursable. Overtime to employees traveling to and from the site will be allowed depending on the firm's policy and limited to the Tollway's CM Manual allowance.

Contract No.: I-17-4303

Consultant: Bowman, Barrett & Associates Inc.

EXHIBIT E - KEY PROJECT PERSONNEL

Project Principal: James Daum, PE

Project Manager: D. David Moses, PE

Project Engineer: _____

Resident Engineer: _____

Documentation Engineer: _____

Project Civil Engineer: Robert Rose, PE

Project Structural Engineer: Daniel Filice, PE, SE

Project Drainage Engineer: _____

Senior Engineer: _____

Others: Name: Ross Anderson, PE

Classification: QA/QC

Name: _____

Classification: _____

Name: _____

Classification: _____

Name: _____

Classification: _____

EXHIBIT F

Contract No. I-17-4303

Bowman, Barrett & Associates Inc.

SCOPE OF SERVICES

Design Contract Supplemental Items:

Tasks within the Phase II Design services have resulted in changes in the character or complexity of the scope of work, and include items listed below.

Advanced Engineering Studies (AES): Original budget and scope was developed based on availability of AES documents containing engineering designs, drawings, CADD files, calculations, and other documents developed to a 30% completion level, and included efforts for review and verification of the AES documents. The Project schedule change resulted in partially completed AES documents being transferred to the BBACBE team for direct development into Phase II construction documents. This change added additional effort for the BBACBE team to complete development of partially completed AES design concepts, investigate Contract Package alternatives and related maintenance of traffic concepts. This work needs to be done expeditiously to meet the design schedule.

Bridge Deck Replacements: Original budget included patching and overlay work on two of the three bridge decks over Irving Park Road and both bridge decks over Lawrence Avenue. These bridge decks now consist of full deck replacements for design development. This task was not known at the time the original contract was negotiated and must be performed expeditiously to meet the design schedule.

Alternate 8R vs. Alternate 9R: Original budget was developed based on improvements shown within the Phase I Alternate 8R. Subsequently, a new Phase I Alternate 9R was developed and selected as the preferred alternate. This Alternate 9R includes additional improvements requiring additional design effort for roadway, structures (retaining walls), drainage, collector-distributor (C-D) roadway system for southbound between Plaza 33 and the O'Hare Oasis, and lane and ramp modifications in the northbound direction. Alternate 9R design concept was memorialized by the Phase I DSE and did not include 30% level AES design documents. Verifying and developing the 9R Alternative concept details will be performed by the BBACBE team.

Median Flex Lane: After the 60% submittal under this contract, direction was received to meet modified flex lane criteria, requiring additional drainage and roadway design efforts.

Median Reconstruction: Original budget was developed based on patching and rehabilitation of the median. Construction scope for the median now consists of complete reconstruction, requiring additional design and detailing efforts.

ITS: Original budget was limited to effort to draft details and locations developed by others under a separate corridor-wide ITS contract. Due to schedule acceleration it was determined that the corridor-wide ITS contract would not be available for expedited use, requiring additional efforts under our contract to design and detail ITS elements and infrastructure within our section. These additional efforts are required for multiple ITS systems, including:

- a. **Temporary:** relocation of the Illinois Tollway fiber optic duct-bank and the Illinois Tollway "Overbuild" fiber optic duct-bank to ensure uninterrupted functionality through both 2018 and 2019 construction contracts.
- b. **Permanent:** renewal of ITS equipment infrastructure and ITS backbone duct-bank throughout section limits.
- c. **ATM:** layout and design of foundation locations for Automated Traffic Management (ATM) structures, including coordinating locations with proposed and existing Overhead Sign Structures (OHSS).

Plaza 33 Modifications: Original budget included no work on Plaza 33. Through the course of design development, modifications to Plaza 33 became necessary to accommodate a 5th southbound lane through the Plaza 33 Open Road Tolling (ORT) infrastructure. Additional efforts include extension and modification of camera, antenna support systems and Violation Enforcement System, additional axle detector loops, and the creation of a service roadway allowing vehicular access to ORT equipment cabinets from the cash-lane side of the Plaza.

Lighting Photometrics: Original budget was based on lighting photometric calculations being performed by others under a separate corridor-wide contract. Due to schedule acceleration it is necessary for photometric calculations for both temporary lighting and permanent lighting to be performed under this contract.

Balmoral Bridge Repairs: During inspection of the Balmoral Bridge new impact damage was discovered on one of the beams requiring repair plans under our contract.

Overhead Sign Structure Layout: Original budget was based on corridor-wide determination of OHSS locations by others. Due to schedule acceleration, development of these locations was moved into this contract, including removal of bridge mounted signs at Balmoral Avenue.

Geotechnical: Additional OHSS and ATM locations require additional geotechnical borings.

Retaining Wall Impacts: The Tollway Design Memorandum 18-02 released on May 25, 2018 increases shoulder widths along retaining walls. This will need to be incorporated accordingly. The Alternative 9R also includes two additional retaining walls not included in the original scope of work.

Plats & Legal Descriptions: Original budget included preparation of Right of Way (ROW) documents for all acquisitions planned within our section. Due to schedule acceleration, direction was received that ROW documents started under the Phase I contract would be completed by Phase I instead of our contract. This is a credit to the contract.

EXHIBIT G

Contract No. I-17-4303

Bowman, Barrett & Associates Inc.

CURRENT OBLIGATIONS FOR PROJECT

Route & Job No.	Work Scope & Description of Project	Fee (Including all Supplementals and Extra Work Orders)	Fee Remaining To Be Earned	Estimated Date of Completion
PTB 152-004	I-80 from Grundy County Line to US 30	\$4,943,821.00	\$420,000.00	12/31/2019
PTB 165-008	US 20 at IL 59	\$1,445,502.00	80000	12/31/2018
PTB 168-012	Circle Interchange Phase III	\$5,122,370.00	\$50,000.00	1/31/2018
I-14-4190	I-90, Roadway Retaining Wall and Bridge	\$2,712,242.00	\$3,000.00	12/31/2018
PSB 14-1, Item 5	Reconstruction and Widening, West of Higgins Road to Roselle Road			
RR-16-4254,	I-88, Roadway and Bridge Rehabilitation, Design, MP 91.41 (Annie Glidden Rd) to	\$2,115,681.00	\$30,000.00	12/31/2018
PSB 16-1, Item 7	MP 113.3 (IL 56) Phase II Engineering			
I-17-4303	Tri-State Tollway, Roadway	\$6,700,000.00	\$1,000,000.00	11/30/2022
PSB 17-3, Item 8	Reconstruction and Bridge Rehabilitation, O'Hare Oasis (MP 37.8) to Balmoral Avenue (MP 40.0)			
RR-14-4222,	Tri-State Bridge Rehabilitation/Reconstruction, Burlington	\$6,891,122.00	\$846,000.00	12/31/2019
PSB 14-3, Item 2	Northern Santa Fe (BNSF) Railroad Bridge (MP 26.6)			
PTB 188-008	I-90 (Kennedy Expressway): I-190 to IL 43(Harlem) Phase III	\$5,473,570.00	\$5,200,000.00	12/31/2020

EXHIBIT H - SERVICES BY OTHERS

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

DBE/MBE/WBE SUBCONSULTANTS

1	_____		
	Direct Labor	_____	
	Direct Costs	_____	
	Services by Others	_____	
	Additional Services **	_____	
	Total this Subconsultant (ULC)	\$ _____	-

6	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

2	_____		
	Direct Labor	_____	
	Direct Costs	_____	
	Services by Others	_____	
	Additional Services **	_____	
	Total this Subconsultant (ULC)	\$ _____	-

7	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

3	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

8	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

4	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

9	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

5	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

10	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

** Additional services funds require prior authorization before use

TOTAL DBE/MBE/WBE Subconsultants: \$ _____ -

TOTAL Additional Services DBE/MBE/WBE Subconsultants: \$ _____ -

TOTAL Allowable Fee DBE/MBE/WBE Subconsultants: \$ _____ -

DBE/MBE/WBE Percentage of Total Fee (includes Additional Services): _____

DBE/MBE/WBE Percentage of Total Fee (does not include Additional Services): _____

EXHIBIT "1"

EXHIBIT H - SERVICES BY OTHERS (continued)

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

OTHER SUBCONSULTANTS (NOT DBE/MBE/WBE)

1	<hr/>		
	Direct Labor	_____	
	Direct Costs	_____	
	Services by Others	_____	
	Additional Services **	_____	
	Total this Subconsultant (ULC)	\$ _____	-

6	<hr/>		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

2	<hr/>		
	Direct Labor	_____	
	Direct Costs	_____	
	Services by Others	_____	
	Additional Services **	_____	
	Total this Subconsultant (ULC)	\$ _____	-

7	<hr/>		
	Direct Labor	\$ _____	-
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

3	<hr/>		
	Direct Labor	\$ _____	-
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

8	<hr/>		
	Direct Labor	\$ _____	-
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

4	<hr/>		
	Direct Labor	\$ _____	-
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

9	<hr/>		
	Direct Labor	\$ _____	-
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

5	<hr/>		
	Direct Labor	\$ _____	-
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

10	<hr/>		
	Direct Labor	\$ _____	-
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

** Additional services funds require prior authorization before use

TOTAL Non-DBE/MBE/WBE Subconsultants: \$ _____ -

TOTAL Additional Services Non-DBE/MBE/WBE Subconsultants: \$ _____ -

TOTAL Allowable Fee Non-DBE/MBE/WBE Subconsultants: \$ _____ -

Contract Information Sheet

Complete the following information and it will be populated on every exhibit.

Consultant Name: Christopher B. Burke Engineering, Ltd.

Contract Number: I-17-4303

Proposal Date: 10/1/2017

Exhibit Pointers Editable cells in each exhibit are underlined in red

Notes and guidance for each exhibit are on the right of the exhibits in yellow text boxes

A full set of instructions to complete the exhibits is available on the Tollway's website

Contract No.: 1-17-4303

Consultant: Christopher B. Burke Engineering, Ltd.

EXHIBIT B: FEE CALCULATIONS

A. DIRECT LABOR (without overtime)

$$\begin{array}{r} \underline{2,505.00} \\ \text{(Total Work Hours} \\ \text{from Exhibit C-2)} \end{array} \times \begin{array}{r} \$ \quad 49.00 \\ \text{(Average Hourly} \\ \text{Rate from Exhibit} \\ \text{C-2)} \end{array} = \text{TOTAL DIRECT SALARY } \$ \quad \underline{122,745.00}$$

Multiplier to be used on this project: 2.80
Allowable Multiplier = (2.8 DSE) (2.5 or 2.8 CM) (2.5 PMO)

DIRECT REGULAR SALARY TIMES MULTIPLIER \$ 343,686.00

B. REIMBURSABLE DIRECT COSTS NOT ELIGIBLE FOR PROFIT

(For Prime Consultant listed above.)

TOTAL DIRECT COSTS _____

C. SERVICES BY OTHERS

Total Allowable Fee DBE/MBE/WBE Subconsultant (from Exhibit H) \$ _____ -

Total Allowable Fee Non-DBE/MBE/WBE Subconsultant (from Exhibit H (cont)) \$ _____ -

TOTAL SERVICES BY OTHERS \$ _____ -

D. ADDITIONAL SERVICES (Prime Consultant)

(Requires prior authorization before use)

ADDITIONAL SERVICES (Subconsultants)

(Requires prior authorization before use)

TOTAL ADDITIONAL SERVICES \$ _____ -
(Requires prior authorization before use)

E. MAXIMUM ALLOWABLE FEE (Upper Limit of Compensation)

\$ 343,686.00

Contract No.: I-17-4303 Consultant: Christopher B. Burke Engineering, Ltd.

Date: 10/1/2017

EXHIBIT C-1: PAYROLL CLASSIFICATION ESCALATION TABLE

CONTRACT TERM: 3 No. OF MONTHS
 SCHEDULED START DATE: 10/1/2018
 RAISE DATE: 10/1/2018
 PERCENT OF RAISE: 0%

ESCALATION PER YEAR Year 1 through 5

Date	Date	Date	Date	Date	Date
10/1/2018	-	10/1/2018	-	10/1/2018	-
0.0	3.0	0.0	0.0	0.0	0.0
3.0	3.0	3.0	3.0	3.0	3.0
Factor First Period		Escalation Factor Second Period		Escalation Factor Fifth Period	
		100.00%			
		Escalation Factor Third Period		Escalation Factor Fourth Period	

ESCALATION PER YEAR Year 6 through 10

Date	Date	Date	Date	Date	Date
-	-	-	-	-	-
0.0	0.0	3.0	3.0	3.0	3.0
3.0	3.0	3.0	3.0	3.0	3.0
Escalation Factor Sixth Period		Escalation Factor Seventh Period		Escalation Factor Ninth Period	
		Escalation Factor Eighth Period		Escalation Factor Tenth Period	

The escalation factor for this project is: 100.00%

Contract No.: I-17-4303

Consultant: Christopher B. Burke Engineering, Ltd.

Escalation Factor: 100.00%

Date: 10/1/2017

(From Exhibit C-1)

EXHIBIT C-2: DIRECT LABOR CLASSIFICATION MAN-HOURS AND RATES										DIRECT COST OVERTIME PREMIUM		
Classification Eligible for Premium Overtime?	Tollway Classification	Tollway MINIMUM Hourly Rate for Classification	Tollway MAXIMUM Hourly Rate for Classification	Average Hourly Rate for Classification (See Note A to Right)	Escalated Average Hourly Rate for Classification (See Note B to Right)	Estimated Work Hours (Including Overtime)	Escalated Average Premium Overtime Hourly Rate (See Note C to Right)	Estimated Overtime Hours (Overtime Hours Only) (See Note D to Right)	Total Estimated O/T Hours:	Average Premium O/T Hourly Rate:	Total Overtime Premium:	
No	Principal	\$50.00	\$70.00	\$70.00	\$70.00	105.00						
No	Project Manager	\$40.00	\$70.00	\$65.60	\$65.60	530.00						
No	Senior Engineer/Planner	\$40.00	\$70.00	\$53.20	\$53.20	615.00						
No	Resident Engineer	\$40.00	\$70.00									
No	Project Engineer/Planner	\$25.00	\$60.00	\$44.80	\$44.80	505.00						
No	Staff Engineer/Planner	\$20.00	\$40.00									
No	Engineer /Accountant	\$20.00	\$60.00	\$31.64	\$31.64	410.00						
No	Senior Technical Specialist	\$25.00	\$60.00	\$45.25	\$45.25	125.00						
No	Technical Specialist	\$15.00	\$50.00	\$35.50	\$35.50	140.00						
No	Architect	\$30.00	\$70.00	\$52.50	\$52.50	5.00						
No	Realty Specialists	\$20.00	\$70.00									
No	Intern	\$8.25	\$20.00	\$15.00	\$15.00	50.00						
No	Admin/Clerical	\$8.25	\$40.00	\$33.43	\$33.43	20.00						

EXHIBIT "1"

Contract No.: I-17-4303

Consultant: Christopher B. Burke Engineering, Ltd.

Date: 10/1/2017

EXHIBIT C-3: DIRECT LABOR EMPLOYEE CLASSIFICATION LIST

Tollway Classification	Consultant Classification (specific to each company)	Consultant Employee Name (SEE NOTE 1 TO RIGHT)	Range per Hour
		Kevin Betke	
		David Buckley	
		Michael Cothard	
		Ilene Dailey	
		Anthony DeRicco	
		Jeana Gowin	
		Matthew Huffman	
		Elizabeth Jensen	
		Andrew Pufundt	
		Melissa McGhee	
		Michael Michalowicz	
		Frank Nemes	
		Donald Oliphant	
		Travis Parry	
		Matthew Rosa	
		Greg Sanders	
		Phil Santos	
		Luke Sherry	
		Amir Soltani	
		David Vogel	
	Survey IV	Kenneth Rasmussen	
	Environmental Res Spec IV	Angela Force	
		Eric Japsen	
		Thomas Kehoe	
		Casey Perry	
	CAD Manager	Alexie Karavakis	
		Peter Magnelli	
		Paul Najarro Jr.	
Resident Engineer			\$40 - \$70
Project Engineer/Planner <input type="checkbox"/>	Engineer III	Paula Andrews	\$25 - \$60
		Miros Antas	
		James Barbee	
		Martin Bojovic	

Contract No.: I-17-4303

Consultant: Christopher B. Burke Engineering, Ltd.

Date: 10/1/2017

EXHIBIT C-3: DIRECT LABOR EMPLOYEE CLASSIFICATION LIST

Tollway Classification	Consultant Classification (specific to each company)	Consultant Employee Name (SEE NOTE 1 TO RIGHT)	Range per Hour
		Michael Burke	
		Penelope Burke	
		Christopher Faust	
		Bobby Gunnells	
		David Kleinwachter	
		Ryan Lindeman	
		Kristen Marquie	
		Nicholas Morel	
		William Schultz	
		Mark Thomas	
		Jeffrey Williams	
		Muhammad Younus	
	Survey III	Brian Gillett	
		James Schmieder	
Staff Engineer/Planner			\$20 - \$40
Engineer /Accountant	Engineer I/II	Ryan Billings	\$20 - \$60
		Edmund Burke	
		Dena Delpazir	
		Ryan Duffy	
		Michael Gratzke	
		Richard Jezierny	
		Douglas Kerr	
		Brian Kuilbus	
		John LaPaglia	
		William Loftus	
		Fancisco Martinez	
		John Miller	
		Danile O'Connell	
		Andrea Pizzo	
		Alex Shafer	
		Daniel Schroeder	
		Matthew Slawitschek	
		Joshua Sitrick	
		Jessica Taskila	

Contract No.: I-17-4303

Consultant: Christopher B. Burke Engineering, Ltd.

Date: 10/1/2017

EXHIBIT C-3: DIRECT LABOR EMPLOYEE CLASSIFICATION LIST

Tollway Classification	Consultant Classification (specific to each company)	Consultant Employee Name (SEE NOTE 1 TO RIGHT)	Range per Hour
		Joseph Wilk	
		Sanae Yasroubdoust	
Senior Technical Specialist	Engineering Technician IV	Gerald Hennelly	\$25 - \$60
		Thomas Szabo	
	Assitant CAD Manager	Michael Goldenberg	
		Elmo Toda	
	CAD Technician II	Fidel Bariso	
		Primo Razalan	
		Eduardo Toda	
Technical Specialist	Environmental Res Spec. III	Megan Briggs	\$15 - \$50
		Candice Jacobs	
		Amber Kowal	
		Brooke Ryan	
		Robert Sliwinski	
		Kurt Hansen	
	Environmental Res Spec. I/II		
	Engieering Technician III	TBD	
	Engineering Technician I/II	Howell-Lindgren, Nigel	
		Ella Sidorczuk	
	GIS Specialist III	David Walters	
	GIS Specialist I/II	Matthew Hayes	
	Survey II	Robert Keller	
		Karl Schlenker	
		Martin Wiggins	
		Thomas Wilk	
	Survey I	Piotr Galecki	
		Alberto Torres	
		William Wilson	
	Environmental Resource Tech	Kenneth Kopija	
Architect	Landscape Architect	Douglas Gotham	\$30 - \$70
Realty Specialists			\$20 - \$70
Intern	Engineering Intern	Joseph Lynch	\$8.25 - \$20

Contract No.: I-17-4303

Consultant: Christopher B. Burke Engineering, Ltd.

EXHIBIT E - KEY PROJECT PERSONNEL

Project Principal: Michael Kerr, PE

Project Manager: Jason Souden, PE

Project Drainage Engineer: Jonathon O'Connell, PE

Drainage Engineer: Ilene Dailey, PE

Drainage Engineer: _____

Drainage Engineer: _____

Environmental: Jedd Anderson, PWS, CWS, SPESC

Erosion Control: _____

Landscape: _____

Others: Name: John Caruso

Classification: QMP Lighting/ITS

Name: _____

Classification: _____

Name: _____

Classification: _____

Name: _____

Classification: _____

EXHIBIT F

Contract No. I-17-4303

Christopher B. Burke Engineering, Ltd.

SCOPE OF SERVICES

Design Contract Supplemental Items:

Tasks within the Phase II Design services have resulted in changes in the character or complexity of the scope of work, and include items listed below.

Advanced Engineering Studies (AES): Original budget and scope was developed based on availability of AES documents containing engineering designs, drawings, CADD files, calculations, and other documents developed to a 30% completion level, and included efforts for review and verification of the AES documents. The Project schedule change resulted in partially completed AES documents being transferred to the BBACBE team for direct development into Phase II construction documents. This change added additional effort for the BBACBE team to complete development of partially completed AES design concepts, investigate Contract Package alternatives and related maintenance of traffic concepts. This work needs to be done expeditiously to meet the design schedule.

Bridge Deck Replacements: Original budget included patching and overlay work on two of the three bridge decks over Irving Park Road and both bridge decks over Lawrence Avenue. These bridge decks now consist of full deck replacements for design development. This task was not known at the time the original contract was negotiated and must be performed expeditiously to meet the design schedule.

Alternate 8R vs. Alternate 9R: Original budget was developed based on improvements shown within the Phase I Alternate 8R. Subsequently, a new Phase I Alternate 9R was developed and selected as the preferred alternate. This Alternate 9R includes additional improvements requiring additional design effort for roadway, structures (retaining walls), drainage, collector-distributor (C-D) roadway system for southbound between Plaza 33 and the O'Hare Oasis, and lane and ramp modifications in the northbound direction. Alternate 9R design concept was memorialized by the Phase I DSE and did not include 30% level AES design documents. Verifying and developing the 9R Alternative concept details will be performed by the BBACBE team.

Median Flex Lane: After the 60% submittal under this contract, direction was received to meet modified flex lane criteria, requiring additional drainage and roadway design efforts.

Median Reconstruction: Original budget was developed based on patching and rehabilitation of the median. Construction scope for the median now consists of complete reconstruction, requiring additional design and detailing efforts.

ITS: Original budget was limited to effort to draft details and locations developed by others under a separate corridor-wide ITS contract. Due to schedule acceleration it was determined that the corridor-wide ITS contract would not be available for expedited use, requiring additional efforts under our contract to design and detail ITS elements and infrastructure within our section. These additional efforts are required for multiple ITS systems, including:

- a. **Temporary:** relocation of the Illinois Tollway fiber optic duct-bank and the Illinois Tollway "Overbuild" fiber optic duct-bank to ensure uninterrupted functionality through both 2018 and 2019 construction contracts.
- b. **Permanent:** renewal of ITS equipment infrastructure and ITS backbone duct-bank throughout section limits.
- c. **ATM:** layout and design of foundation locations for Automated Traffic Management (ATM) structures, including coordinating locations with proposed and existing Overhead Sign Structures (OHSS).

Plaza 33 Modifications: Original budget included no work on Plaza 33. Through the course of design development, modifications to Plaza 33 became necessary to accommodate a 5th southbound lane through the Plaza 33 Open Road Tolling (ORT) infrastructure. Additional efforts include extension and modification of camera, antenna support systems and Violation Enforcement System, additional axle detector loops, and the creation of a service roadway allowing vehicular access to ORT equipment cabinets from the cash-lane side of the Plaza.

Lighting Photometrics: Original budget was based on lighting photometric calculations being performed by others under a separate corridor-wide contract. Due to schedule acceleration it is necessary for photometric calculations for both temporary lighting and permanent lighting to be performed under this contract.

Balmoral Bridge Repairs: During inspection of the Balmoral Bridge new impact damage was discovered on one of the beams requiring repair plans under our contract.

Overhead Sign Structure Layout: Original budget was based on corridor-wide determination of OHSS locations by others. Due to schedule acceleration, development of these locations was moved into this contract, including removal of bridge mounted signs at Balmoral Avenue.

Geotechnical: Additional OHSS and ATM locations require additional geotechnical borings.

Retaining Wall Impacts: The Tollway Design Memorandum 18-02 released on May 25, 2018 increases shoulder widths along retaining walls. This will need to be incorporated accordingly. The Alternative 9R also includes two additional retaining walls not included in the original scope of work.

Plats & Legal Descriptions: Original budget included preparation of Right of Way (ROW) documents for all acquisitions planned within our section. Due to schedule acceleration, direction was received that ROW documents started under the Phase I contract would be completed by Phase I instead of our contract. This is a credit to the contract.

EXHIBIT G

Contract No. I-17-4303

Christopher B. Burke Engineering, Ltd.

CURRENT OBLIGATIONS FOR PROJECT

Route & Job No.	Work Scope & Description of Project	Fee (Including all Supplementals and Extra Work Orders)	Fee Remaining To Be Earned	Estimated Date of Completion
Prime				
RR-11-4032	Environmental Services Upon Request	\$5,000,000.00	\$15,000.00	5/1/2018
RR-18-4383	Tri -State Tollway 95th St - Blamoral Ave Planning Studies Upon Request	\$5,000,000.00	\$5,000,000.00	06/31/23
Sub				
I-11-4014	Elgin O'Hare ByPass Sub to CH2M Hill	\$498,140.00	\$229,622.00	5/31/2018
I-12-4080	Illinois 53 Extension Sub to Transystems	\$800,000.00	\$0.00	4/1/2019
RR-14-4221	Tri State Tollway- Mile Long Bridge Sub to Locher, HDR, Quigg	\$1,326,200.00	\$312,557.00	3/1/2020
RR-14-4222	Tri State Tollway-BNSF Rail Sub to Bowman Barrett	\$1,038,371.00	\$205,931.00	8/31/2019
I-15-4656	EOWA I-294 to I-290 Trio Sub Benesch/CBBEL/Lin JV	\$2,392,203.00	\$835,653.00	5/31/2019
I-14-4190	I-90 BCP Tollway Partners JV	JV=9,499,523 CBBEL=2,151,971.36	\$0.00	7/31/2017
I-18-4383	Tri State Wolf to Balmoral Sub to Lochner	\$5,000.00	\$5,000.00	2/1/2018
IDOT				
P-91-004-09	Various Saftey Assessments	\$600,000.00	\$40,000.00	1/28/2018
P-91-007-09	IL 47 doe US 14 to Charles Road Sub to Strand	\$468,980.00	\$88,000.00	3/1/2017
P-91-388-10	US 45 (form IL 132 to IL 173)	\$1,655,172.00	\$7,000.00	4/30/2018

EXHIBIT G

Contract No. I-17-4303

Christopher B. Burke Engineering, Ltd.

CURRENT OBLIGATIONS FOR PROJECT

Route & Job No.	Work Scope & Description of Project	Fee (Including all Supplementals and Extra Work Orders)	Fee Remaining To Be Earned	Estimated Date of Completion
P-91-597-10	I-290 West of US 12/20/45 Sub to Parsons Brinckerhoff	\$1,489,117.00	\$54,000.00	12/1/2017
P-91-762-10	I-55 from I-355 to I-94 -Sub to Stantec	2,017,733.00	500,000.00	11/23/2018
C-91-75-13	Construction Inspection at I-90 and Cumberland	2,091,291.00	187,000.00	11/01/15
D-91-01-14	IL 47 from US 14 to South of IL 176 Phase II Sub to Strand	244,927.00	134,000.00	04/22/19
D-91-467-14	FAU 2857 Wood Street from North of Little Calumet River to South of US6 Sub to Infrastructure	229,168.00	30,000.00	12/01/16
P-91-119-14	Various Phase I Contracts	1,200,000.00	349,000.00	02/01/19
D-60-031-15	Various Scat Projects	400,000.00	23,000.00	03/01/17
P-91-224-16	Various Phase I Contracts	1,200,000.00	700,000.00	08/30/19
D-60-031-18	Various Scat Projects	300,000.00	207,000.00	11/01/20
P-91-014-18	Phase I IL 53 from IL 62 to US 12 Sub to RS & H	Still in Negotiations	Still in Negotiations	
P-91-05-18	Interstate 90 from Interstate 94 to S of Ohio Sub to Lochner	Still in Negotiations	Still in Negotiations	
City of Chicago	Various Contracts	40,000,000.00	8,000.00	Various
All Other Work Public & Private	Various Contracts	43,334,000.00	14,123,000.00	Various

EXHIBIT H - SERVICES BY OTHERS

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

DBE/MBE/WBE SUBCONSULTANTS

1	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Direct Labor</td> <td style="border-bottom: 1px solid black; width: 40%;"></td> <td style="width: 30%;"></td> </tr> <tr> <td>Direct Costs</td> <td style="border-bottom: 1px solid black;"></td> <td></td> </tr> <tr> <td>Services by Others</td> <td style="border-bottom: 1px solid black;"></td> <td></td> </tr> <tr> <td>Additional Services **</td> <td style="border-bottom: 1px solid black;"></td> <td></td> </tr> <tr> <td>Total this Subconsultant (ULC)</td> <td style="border-bottom: 1px solid black; text-align: right;">\$ -</td> <td></td> </tr> </table>	Direct Labor			Direct Costs			Services by Others			Additional Services **			Total this Subconsultant (ULC)	\$ -	
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** Additional services funds require prior authorization before use

TOTAL DBE/MBE/WBE Subconsultants: \$ -

TOTAL Additional Services DBE/MBE/WBE Subconsultants: \$ -

TOTAL Allowable Fee DBE/MBE/WBE Subconsultants: \$ -

DBE/MBE/WBE Percentage of Total Fee (includes Additional Services): _____

DBE/MBE/WBE Percentage of Total Fee (does not include Additional Services): _____

EXHIBIT H - SERVICES BY OTHERS (continued)

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

OTHER SUBCONSULTANTS (NOT DBE/MBE/WBE)

<p>1</p> <hr/> <p>Direct Labor _____</p> <p>Direct Costs _____</p> <p>Services by Others _____</p> <p>Additional Services ** _____</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>6</p> <hr/> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
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** Additional services funds require prior authorization before use

TOTAL Non-DBE/MBE/WBE Subconsultants: \$ -

TOTAL Additional Services Non-DBE/MBE/WBE Subconsultants: \$ -

TOTAL Allowable Fee Non-DBE/MBE/WBE Subconsultants: \$ -

Contract Information Sheet

Complete the following information and it will be populated on every exhibit.

Consultant Name: American Surveying & Engineering, P.C.

Contract Number: I-17-4303

Proposal Date: 10/1/2018

Exhibit Pointers Editable cells in each exhibit are underlined in red

Notes and guidance for each exhibit are on the right of the exhibits in yellow text boxes

A full set of instructions to complete the exhibits is available on the Tollway's website

Contract No.: I-17-4303

Consultant: American Surveying & Engineering, P.C.

EXHIBIT B: FEE CALCULATIONS

A. DIRECT LABOR (without overtime)

$$\begin{array}{r} \underline{774.00} \\ \text{(Total Work Hours} \\ \text{from Exhibit C-2)} \end{array} \times \begin{array}{r} \$ \quad 38.14 \\ \text{(Average Hourly} \\ \text{Rate from Exhibit} \\ \text{C-2)} \end{array} = \text{TOTAL DIRECT SALARY } \$ \underline{29,520.36}$$

Multiplier to be used on this project: 2.80
Allowable Multiplier = (2.8 DSE) (2.5 or 2.8 CM) (2.5 PMO)

DIRECT REGULAR SALARY TIMES MULTIPLIER \$ 82,657.01

B. REIMBURSABLE DIRECT COSTS NOT ELIGIBLE FOR PROFIT

(For Prime Consultant listed above.)

TOTAL DIRECT COSTS _____

C. SERVICES BY OTHERS

Total Allowable Fee DBE/MBE/WBE Subconsultant (from Exhibit H) \$ _____ -

Total Allowable Fee Non-DBE/MBE/WBE Subconsultant (from Exhibit H (cont)) \$ _____ -

TOTAL SERVICES BY OTHERS \$ _____ -

D. ADDITIONAL SERVICES (Prime Consultant)

(Requires prior authorization before use)

ADDITIONAL SERVICES (Subconsultants)

(Requires prior authorization before use)

TOTAL ADDITIONAL SERVICES \$ _____ -
(Requires prior authorization before use)

E. MAXIMUM ALLOWABLE FEE (Upper Limit of Compensation)

\$ 82,657.01

Contract No.: I-17-4303 Consultant: American Surveying & Engineering, P.C.

Date: 10/1/2018

EXHIBIT C-1: PAYROLL CLASSIFICATION ESCALATION TABLE

CONTRACT TERM: 3 No. OF MONTHS
 SCHEDULED START DATE: 10/1/2018
 RAISE DATE: 10/1/2018
 PERCENT OF RAISE: 0%

ESCALATION PER YEAR Year 1 through 5

10/1/2018	-	Date	10/1/2018	-	Date	12/31/2018	-	Date	3.0
3.0			3.0			3.0			3.0
Factor First Period									
Escalation Factor Second Period									
Escalation Factor Third Period									
Escalation Factor Fourth Period									
Escalation Factor Fifth Period									

ESCALATION PER YEAR Year 6 through 10

	-	Date		-	Date		-	Date	3.0
3.0			3.0			3.0			3.0
Escalation Factor Sixth Period									
Escalation Factor Seventh Period									
Escalation Factor Eighth Period									
Escalation Factor Ninth Period									
Escalation Factor Tenth Period									

The escalation factor for this project is: 100.00%

Contract No.: I-17-4303

Consultant: American Surveying & Engineering, P.C.

Date: 10/1/2018

Escalation Factor: 100.00%
(From Exhibit C-1)

EXHIBIT C-2: DIRECT LABOR CLASSIFICATION MAN-HOURS AND RATES										DIRECT COST OVERTIME PREMIUM	
Classification Eligible for Premium Overtime?	Tollway Classification	Tollway MINIMUM Hourly Rate for Classification	Tollway MAXIMUM Hourly Rate for Classification	Average Hourly Rate for Classification (See Note A to Right)	Escalated Average Hourly Rate for Classification (See Note B to Right)	Estimated Work Hours (Including Overtime)	Total Estimated Work Hours	Average Premium Hourly Rate	Total Direct Labor	Escalated Average Premium Overtime Hourly Rate (See Note C to Right)	Estimated Overtime Hours (Overtime Hours Only) (See Note D to Right)
No	Principal	\$50.00	\$70.00				774.00		\$29,520.36		
No	Project Manager	\$40.00	\$70.00	\$67.51	\$67.51	50.00					
No	Senior Engineer/Planner	\$40.00	\$70.00	\$65.38	\$65.38	80.00					
No	Resident Engineer	\$40.00	\$70.00								
No	Project Engineer/Planner	\$25.00	\$60.00	\$54.59	\$54.59	85.00					
No	Staff Engineer/Planner	\$20.00	\$40.00	\$35.00	\$35.00	107.00					
No	Engineer /Accountant	\$20.00	\$60.00								
No	Senior Technical Specialist	\$25.00	\$60.00	\$35.00	\$35.00	200.00					
No	Technical Specialist	\$15.00	\$50.00	\$22.41	\$22.41	212.00					
No	Architect	\$30.00	\$70.00								
No	Realty Specialists	\$20.00	\$70.00								
No	Intern	\$8.25	\$20.00								
No	Admin/Clerical	\$8.25	\$40.00	\$19.50	\$19.50	40.00					

Contract No.: I-17-4303

Consultant: American Surveying & Engineering, P.C.

Date: 10/1/2018

EXHIBIT C-3: DIRECT LABOR EMPLOYEE CLASSIFICATION LIST

Tollway Classification	Consultant Classification (specific to each company)	Consultant Employee Name (SEE NOTE 1 TO RIGHT)	Range per Hour
Principal			\$50 - \$70
Project Manager	PROJECT MANAGER	COVENTINE FIDIS	\$40 - \$70
	PROJECT MANAGER	MARK M. WOOD	
	PROJECT MANAGER	STEVEN M. RIENKS	
	PROJECT MANAGER	JAY P. HOWELL	
	PROJECT MANAGER	JOHN A. DYBAS III	
	PROJECT MANAGER	LARRY D. MARTIN	
Senior Engineer/Planner	PROJECT SURVEYOR/ENG IV	PAUL F. STANTON	\$40 - \$70
	PROJECT SURVEYOR/ENG IV	CRAIG L. DUY	
	PROJECT SURVEYOR/ENG III	THOMAS A. SANDERSON	
Resident Engineer			\$40 - \$70
Project Engineer/Planner	PROJECT SURVEYOR/ENG III	ERIC J. SLADEK	\$25 - \$60
	PROJECT SURVEYOR/ENG I	ROBERT MICHAEL BACHARA	
Staff Engineer/Planner	PROJECT SURVEYOR/ENG II	ROBERT S. SAXER	\$20 - \$40
Engineer /Accountant			\$20 - \$60
Senior Technical Specialist	CADD TECHNICIAN	CRAIG A. HILLS	\$25 - \$60
	CADD TECHNICIAN	WILLIAM BARAN	
	CADD TECHNICIAN	BRANNDON D. ELSBREE	
	CADD TECHNICIAN	JESSE J. NOCON	
	CADD TECHNICIAN	AMANDA J. JOHNSON	
	CADD TECHNICIAN	JOSEPH B. MAGNOTTA	
	ENGINEER/SURVEY TECH III	THOMAS H. HOYLE	
	ENGINEER/SURVEY TECH III	DARYL F. EDWARDS	
	ENGINEER/SURVEY TECH III	GUSTAVO ALEX AGUILAR	
	ENGINEER/SURVEY TECH III	KRISTOPHER M. MCALLISTER	
	ENGINEER/SURVEY TECH III	JEFFREY F. MUMMERT	
Technical Specialist	ENGINEER/SURVEY TECH II	GARY R. BRANDT	\$15 - \$50
	ENGINEER/SURVEY TECH II	BRADLY J. DUFFY	
	ENGINEER/SURVEY TECH II	LAWRENCE T. DEMANCHE	
	ENGINEER/SURVEY TECH II	ROBERTO ASCENCIO	
	ENGINEER/SURVEY TECH I	DAVID W. CISKOWSKI	

ALLOWABLE DIRECT COSTS

09.12.2018

Effective for contracts awarded on or after August 1, 2018, the following costs are allowable when requested by the Tollway and included in the contract. The costs are allowable when it is customary for the firm to bill for the cost and it can be itemized in the firm's billing and accounting systems.

Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to State rate maximum
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (up to State rate maximum)
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost
Air Fare	Coach Rate with 2 weeks advance purchase with ISTHA approval
Vehicles	
Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to State rate maximum
Vehicle Rental (including tolls)	Actual cost up to \$55/day
Vehicle Owned or Leased (does not include personal vehicles, not owned by the company) (includes tolls)	\$65/full day, \$32.50/half day (4 hours or less)
Parking	Actual Cost
Tolls (Personal Vehicles only)	Actual Cost
Overtime	Premium portion
Shift Differential	Actual cost (based on firm's policy)
Overnight Delivery/Postage Courier Service	Actual Cost
Copies of Deliverables	Actual Cost
Specific Insurance – required for project	Actual Cost
CADD	Actual Costs (Maximum of \$450.00/Mo)
Monuments – Permanent	Actual Cost
Advertisements	Actual Cost
2-way Radio	Actual cost (Survey or Phase III only)
Telephone Usage	Actual Cost (Traffic System Monitoring Only)
Web Site	Actual Cost
Facility Rental for Public Meetings & Exhibits/Rendering & AV Equipment/Transcriptions	Actual Cost
Recording Fees	Actual Cost
Courthouse Fees	Actual Cost
Testing of Soil Samples	Actual Cost
Lab Services (excluding Phase III normal construction inspection such as beam breaks, cylinder breaks, pavement cores)	Actual Cost
Equipment rental specific for project (snooper for bridge inspection, noise meter, etc.)	Actual Cost
Specialized equipment – on an as needed basis with prior approval	Actual Cost
Traffic Systems	Actual Cost
Storm sewer cleaning and televising	Actual Cost
Traffic control and protection	Actual Cost
Aerial photography, mapping and drone usage	Actual Cost
Utility exploratory trenching	Actual Cost

ALLOWABLE DIRECT COSTS

- *website for State Reimbursement Rates_
<http://www2.illinois.gov/cms/Employees/travel/Pages/TravelReimbursement.aspx>
- On all agreements authorization after January 1, 2005, GPS Equipment is considered a “tool of the trade.”

ALLOWABLE DIRECT COSTS

The number of days will be calculated as follows for extended stay **- Weekly (vehicle and hotel) – Number of days on job site plus one day to travel to and from job site per week.

**Extended Stay Status applies to individuals on the project over 20 Consecutive working days. The decision whether individuals will stay over the weekend will be made after the Contractor's schedule is available and shall be made jointly by the Consultant Liaison and the Tollway project manager.

NOTES:

- For CM contracts, beam and cylinder breaks are not reimbursable. Overtime to employees traveling to and from the site will be allowed depending on the firm's policy and limited to the Tollway's CM Manual allowance.

Contract No.: I-17-4303

Consultant: American Surveying & Engineering, P.C.

EXHIBIT E - KEY PROJECT PERSONNEL

Project Principal: _____

Project Manager: _____

Project Engineer: _____

Resident Engineer: _____

Documentation Engineer: _____

Project Civil Engineer: _____

Project Structural Engineer: _____

Project Drainage Engineer: _____

Senior Engineer: _____

Others: Name: Mark M. Wood, PLS

Classification: ALTA.ROW

Name: Thomas A. Sanderson, PE

Classification: SUBSURFACE UTILITY

Name: _____

Classification: _____

Name: _____

Classification: _____

APPENDIX TO EXHIBIT F

Contract No. I-17-4303

American Surveying & Engineering, P.C.

SCOPE OF SERVICES

Each firm will be bound to the Tollway's Exhibit F Scope of Work as prepared by the Tollway. Each firm will perform only work they are qualified to perform to the professional Standard of Care level required by the Tollway. Work tasks will be assigned by the combined management team consisting of Bowman, Barrett & Associates Inc. and Christopher B. Burke Engineering, Ltd., as required to meet the expectations of the Tollway for this project.

EXHIBIT F
Contract No. I-17-4303
BBACBE_TM
SCOPE OF SERVICES

Design Contract Supplemental Items:

Tasks within the Phase II Design services have resulted in changes in the character or complexity of the scope of work, and include items listed below.

Advanced Engineering Studies (AES): Original budget and scope was developed based on availability of AES documents containing engineering designs, drawings, CADD files, calculations, and other documents developed to a 30% completion level, and included efforts for review and verification of the AES documents. The Project schedule change resulted in partially completed AES documents being transferred to the BBACBE team for direct development into Phase II construction documents. This change added additional effort for the BBACBE team to complete development of partially completed AES design concepts, investigate Contract Package alternatives and related maintenance of traffic concepts. This work needs to be done expeditiously to meet the design schedule.

Bridge Deck Replacements: Original budget included patching and overlay work on two of the three bridge decks over Irving Park Road and both bridge decks over Lawrence Avenue. These bridge decks now consist of full deck replacements for design development. This task was not known at the time the original contract was negotiated and must be performed expeditiously to meet the design schedule.

Alternate 8R vs. Alternate 9R: Original budget was developed based on improvements shown within the Phase I Alternate 8R. Subsequently, a new Phase I Alternate 9R was developed and selected as the preferred alternate. This Alternate 9R includes additional improvements requiring additional design effort for roadway, structures (retaining walls), drainage, collector-distributor (C-D) roadway system for southbound between Plaza 33 and the O'Hare Oasis, and lane and ramp modifications in the northbound direction. Alternate 9R design concept was memorialized by the Phase I DSE and did not include 30% level AES design documents. Verifying and developing the 9R Alternative concept details will be performed by the BBACBE team.

Median Flex Lane: After the 60% submittal under this contract, direction was received to meet modified flex lane criteria, requiring additional drainage and roadway design efforts.

Median Reconstruction: Original budget was developed based on patching and rehabilitation of the median. Construction scope for the median now consists of complete reconstruction, requiring additional design and detailing efforts.

ITS: Original budget was limited to effort to draft details and locations developed by others under a separate corridor-wide ITS contract. Due to schedule acceleration it was determined that the corridor-wide ITS contract would not be available for expedited use, requiring additional efforts under our contract to design and detail ITS elements and infrastructure within our section. These additional efforts are required for multiple ITS systems, including:

- a. **Temporary:** relocation of the Illinois Tollway fiber optic duct-bank and the Illinois Tollway "Overbuild" fiber optic duct-bank to ensure uninterrupted functionality through both 2018 and 2019 construction contracts.
- b. **Permanent:** renewal of ITS equipment infrastructure and ITS backbone duct-bank throughout section limits.
- c. **ATM:** layout and design of foundation locations for Automated Traffic Management (ATM) structures, including coordinating locations with proposed and existing Overhead Sign Structures (OHSS).

Plaza 33 Modifications: Original budget included no work on Plaza 33. Through the course of design development, modifications to Plaza 33 became necessary to accommodate a 5th southbound lane through the Plaza 33 Open Road Tolling (ORT) infrastructure. Additional efforts include extension and modification of camera, antenna support systems and Violation Enforcement System, additional axle detector loops, and the creation of a service roadway allowing vehicular access to ORT equipment cabinets from the cash-lane side of the Plaza.

Lighting Photometrics: Original budget was based on lighting photometric calculations being performed by others under a separate corridor-wide contract. Due to schedule acceleration it is necessary for photometric calculations for both temporary lighting and permanent lighting to be performed under this contract.

Balmoral Bridge Repairs: During inspection of the Balmoral Bridge new impact damage was discovered on one of the beams requiring repair plans under our contract.

Overhead Sign Structure Layout: Original budget was based on corridor-wide determination of OHSS locations by others. Due to schedule acceleration, development of these locations was moved into this contract, including removal of bridge mounted signs at Balmoral Avenue.

Geotechnical: Additional OHSS and ATM locations require additional geotechnical borings.

Retaining Wall Impacts: The Tollway Design Memorandum 18-02 released on May 25, 2018 increases shoulder widths along retaining walls. This will need to be incorporated accordingly. The Alternative 9R also includes two additional retaining walls not included in the original scope of work.

Plats & Legal Descriptions: Original budget included preparation of Right of Way (ROW) documents for all acquisitions planned within our section. Due to schedule acceleration, direction was received that ROW documents started under the Phase I contract would be completed by Phase I instead of our contract. This is a credit to the contract.

EXHIBIT G

Contract No. I-17-4303

American Surveying & Engineering, P.C.

CURRENT OBLIGATIONS FOR PROJECT

Route & Job No.	Work Scope & Description of Project	Fee (Including all Supplementals and Extra Work Orders)	Fee Remaining To Be Earned	Estimated Date of Completion
P-98-080-17	Various Locations ASE #117105	\$300,000.00	\$210,366.35	TBD
RR-16-9396	Aerial Mapping Upon Request ASE #217100	\$105,000.00	\$87,263.54	TBD
I-17-4681	Elgin O'Hare ASE #217099	TBD	TBD	TBD
I-17-4295	I-55 Ramps to Ogden Ave. ASE #217097	\$750,000.00	\$548,382.20	TBD
I-17-4297	75th St. to I-55 Ramps ASE #217096	\$512,825.79	\$309,648.72	10/31/2026
I-17-4296	95th St. to LaGrange Rd. ASE #217095	\$263,463.50	\$160,429.93	TBD
RR-15-99-75RR	Tollway Systemwide GEC ASE #217066	\$739,425.39	\$567,853.55	12/31/2019
RR-16-4265	Central Tri-State Design ASE #217038	\$989,805.00	\$573,312.09	4/14/2027
I-16-4266	IL-53 EIS ASE #216065	\$750,000.00	\$641,729.74	6/30/2019
I-15-4659	Wight - Phase II and Phase III ASE #215192	\$65,000.00	\$31,400.45	3/31/2019
I-15-4657	AMEC TY LIN EOWA I-294 ASE #515188	\$849,154.00	\$803,463.37	12/31/2021
P-91-001-16	IDOT Survey Various/Various ASE #215163	\$499,987.74	\$193,683.23	12/7/2025
P-94-008-14	IDOT Survey Various/Various ASE #114053	\$300,000.00	\$160,929.08	10/31/2024
RR-14-4181	Fiber Optic Maintenance #214009.2	\$1,900,000.00	\$262,699.66	4/15/2019
RR-14-4181	Fiber Optic Maintenance ASE #214009	\$425,000.00	\$38,563.31	4/15/2019
I-13-4623	Elgin O'Hare Western Access, I-290 to IL 83 Advance Work Contracts ASE #214003	\$144,876.45	\$54,082.98	3/27/2022
I-13-4119	I-88 Photo control: I-39 to Sterling, IL ASE #213056	\$105,000.00	\$15,245.03	TBD
D-91-317-13	Various Locations ASE #213070	\$300,000.00	\$87,650.01	9/30/2023
P-92-099-11	Various Survey Projects, Various Routes, Various Counties, Region Two/District Two ASE #111077	\$350,000.00	\$19,817.50	10/31/2021
I-11-4014	Elgin O'Hare Western Bypass Tollway, Design Corridor Management ASE #211098	\$8,162,850.20	\$854,262.51	TBD
P-93-011-10	Various Locations ASE #210007	\$300,000.00	\$118,248.63	5/1/2019

EXHIBIT G

Contract No. I-17-4303

American Surveying & Engineering, P.C.

CURRENT OBLIGATIONS FOR PROJECT

Route & Job No.	Work Scope & Description of Project	Fee (Including all Supplementals and Extra Work Orders)	Fee Remaining To Be Earned	Estimated Date of Completion
P-98-080-17	Various Locations ASE #117105	\$300,000.00	\$210,366.35	TBD
RR-16-9396	Aerial Mapping Upon Request ASE #217100	\$105,000.00	\$87,263.54	TBD
I-17-4681	Elgin O'Hare ASE #217099	TBD	TBD	TBD
I-17-4295	I-55 Ramps to Ogden Ave. ASE #217097	\$750,000.00	\$548,382.20	TBD
I-17-4297	75th St. to I-55 Ramps ASE #217096	\$512,825.79	\$309,648.72	10/31/2026
I-17-4296	95th St. to LaGrange Rd. ASE #217095	\$263,463.50	\$160,429.93	TBD
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I-15-4659	Wight - Phase II and Phase III ASE #215192	\$65,000.00	\$31,400.45	3/31/2019
I-15-4657	AMEC TY LIN EOWA I-294 ASE #515188	\$849,154.00	\$803,463.37	12/31/2021
P-91-001-16	IDOT Survey Various/Various ASE #215163	\$499,987.74	\$193,683.23	12/7/2025
P-94-008-14	IDOT Survey Various/Various ASE #114053	\$300,000.00	\$160,929.08	10/31/2024
RR-14-4181	Fiber Optic Maintenance #214009.2	\$1,900,000.00	\$262,699.66	4/15/2019
RR-14-4181	Fiber Optic Maintenance ASE #214009	\$425,000.00	\$38,563.31	4/15/2019
I-13-4623	Elgin O'Hare Western Access, I-290 to IL 83 Advance Work Contracts ASE #214003	\$144,876.45	\$54,082.98	3/27/2022
I-13-4119	I-88 Photo control: I-39 to Sterling, IL ASE #213056	\$105,000.00	\$15,245.03	TBD
D-91-317-13	Various Locations ASE #213070	\$300,000.00	\$87,650.01	9/30/2023
P-92-099-11	Various Survey Projects, Various Routes, Various Counties, Region Two/District Two ASE #111077	\$350,000.00	\$19,817.50	10/31/2021
I-11-4014	Elgin O'Hare Western Bypass Tollway, Design Corridor Management ASE #211098	\$8,162,850.20	\$854,262.51	TBD
P-93-011-10	Various Locations ASE #210007	\$300,000.00	\$118,248.63	5/1/2019

EXHIBIT H - SERVICES BY OTHERS

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

DBE/MBE/WBE SUBCONSULTANTS

1	_____		
	Direct Labor	_____	
	Direct Costs	_____	
	Services by Others	_____	
	Additional Services **	_____	
	Total this Subconsultant (ULC)	\$ _____	-

6	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

2	_____		
	Direct Labor	_____	
	Direct Costs	_____	
	Services by Others	_____	
	Additional Services **	_____	
	Total this Subconsultant (ULC)	\$ _____	-

7	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

3	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

8	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

4	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

9	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

5	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

10	_____		
	Direct Labor	_____	
	Direct Costs	\$ _____	-
	Services by Others	\$ _____	-
	Additional Services **	\$ _____	-
	Total this Subconsultant (ULC)	\$ _____	-

** Additional services funds require prior authorization before use

TOTAL DBE/MBE/WBE Subconsultants: \$ _____ -

TOTAL Additional Services DBE/MBE/WBE Subconsultants: \$ _____ -

TOTAL Allowable Fee DBE/MBE/WBE Subconsultants: \$ _____ -

DBE/MBE/WBE Percentage of Total Fee (includes Additional Services): _____

DBE/MBE/WBE Percentage of Total Fee (does not include Additional Services): _____

EXHIBIT H - SERVICES BY OTHERS (continued)

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

OTHER SUBCONSULTANTS (NOT DBE/MBE/WBE)

1	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Direct Labor</td> <td style="width: 10%; border-bottom: 1px solid black;"></td> <td style="width: 60%;"></td> </tr> <tr> <td>Direct Costs</td> <td style="border-bottom: 1px solid black;"></td> <td></td> </tr> <tr> <td>Services by Others</td> <td style="border-bottom: 1px solid black;"></td> <td></td> </tr> <tr> <td>Additional Services **</td> <td style="border-bottom: 1px solid black;"></td> <td></td> </tr> <tr> <td>Total this Subconsultant (ULC)</td> <td style="text-align: right; border-bottom: 1px solid black;">\$</td> <td style="text-align: right; border-bottom: 1px solid black;">-</td> </tr> </table>	Direct Labor			Direct Costs			Services by Others			Additional Services **			Total this Subconsultant (ULC)	\$	-
Direct Labor																
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6	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Direct Labor</td> <td style="width: 10%; border-bottom: 1px solid black;"></td> <td style="width: 60%;"></td> </tr> <tr> <td>Direct Costs</td> <td style="border-bottom: 1px solid black; text-align: right;">\$</td> <td style="border-bottom: 1px solid black; text-align: right;">-</td> </tr> <tr> <td>Services by Others</td> <td style="border-bottom: 1px solid black; text-align: right;">\$</td> <td style="border-bottom: 1px solid black; text-align: right;">-</td> </tr> <tr> <td>Additional Services **</td> <td style="border-bottom: 1px solid black; text-align: right;">\$</td> <td style="border-bottom: 1px solid black; text-align: right;">-</td> </tr> <tr> <td>Total this Subconsultant (ULC)</td> <td style="text-align: right; border-bottom: 1px solid black;">\$</td> <td style="text-align: right; border-bottom: 1px solid black;">-</td> </tr> </table>	Direct Labor			Direct Costs	\$	-	Services by Others	\$	-	Additional Services **	\$	-	Total this Subconsultant (ULC)	\$	-
Direct Labor																
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7	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Direct Labor</td> <td style="width: 10%; border-bottom: 1px solid black; text-align: right;">\$</td> <td style="width: 60%; border-bottom: 1px solid black; text-align: right;">-</td> </tr> <tr> <td>Direct Costs</td> <td style="border-bottom: 1px solid black; text-align: right;">\$</td> <td style="border-bottom: 1px solid black; text-align: right;">-</td> </tr> <tr> <td>Services by Others</td> <td style="border-bottom: 1px solid black; text-align: right;">\$</td> <td style="border-bottom: 1px solid black; text-align: right;">-</td> </tr> <tr> <td>Additional Services **</td> <td style="border-bottom: 1px solid black; text-align: right;">\$</td> <td style="border-bottom: 1px solid black; text-align: right;">-</td> </tr> <tr> <td>Total this Subconsultant (ULC)</td> <td style="text-align: right; border-bottom: 1px solid black;">\$</td> <td style="text-align: right; border-bottom: 1px solid black;">-</td> </tr> </table>	Direct Labor	\$	-	Direct Costs	\$	-	Services by Others	\$	-	Additional Services **	\$	-	Total this Subconsultant (ULC)	\$	-
Direct Labor	\$	-														
Direct Costs	\$	-														
Services by Others	\$	-														
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** Additional services funds require prior authorization before use

TOTAL Non-DBE/MBE/WBE Subconsultants: \$ -

TOTAL Additional Services Non-DBE/MBE/WBE Subconsultants: \$ -

TOTAL Allowable Fee Non-DBE/MBE/WBE Subconsultants: \$ -

Contract Information Sheet

Complete the following information and it will be populated on every exhibit.

Consultant Name: Burns & McDonnell Engineering Co., Inc.

Contract Number: I-17-4303

Proposal Date: 10/1/2018

Exhibit Pointers Editable cells in each exhibit are underlined in red

Notes and guidance for each exhibit are on the right of the exhibits in yellow text boxes

A full set of instructions to complete the exhibits is available on the Tollway's website

Contract No.: I-17-4303

Consultant: Burns & McDonnell Engineering Co., Inc.

EXHIBIT B: FEE CALCULATIONS

A. DIRECT LABOR (without overtime)

$$\begin{array}{r} \underline{350.00} \\ \text{(Total Work Hours} \\ \text{from Exhibit C-2)} \end{array} \times \begin{array}{r} \$ \quad 49.00 \\ \text{(Average Hourly} \\ \text{Rate from Exhibit} \\ \text{C-2)} \end{array} = \text{TOTAL DIRECT SALARY } \$ \quad \underline{17,150.00}$$

Multiplier to be used on this project: 2.80
Allowable Multiplier = (2.8 DSE) (2.5 or 2.8 CM) (2.5 PMO)

DIRECT REGULAR SALARY TIMES MULTIPLIER \$ 48,020.00

B. REIMBURSABLE DIRECT COSTS NOT ELIGIBLE FOR PROFIT

(For Prime Consultant listed above.)

TOTAL DIRECT COSTS _____

C. SERVICES BY OTHERS

Total Allowable Fee DBE/MBE/WBE Subconsultant (from Exhibit H) \$ _____ -

Total Allowable Fee Non-DBE/MBE/WBE Subconsultant (from Exhibit H (cont)) \$ _____ -

TOTAL SERVICES BY OTHERS \$ _____ -

D. ADDITIONAL SERVICES (Prime Consultant)

(Requires prior authorization before use)

ADDITIONAL SERVICES (Subconsultants)

(Requires prior authorization before use)

TOTAL ADDITIONAL SERVICES \$ _____ -
(Requires prior authorization before use)

E. MAXIMUM ALLOWABLE FEE (Upper Limit of Compensation)

\$ 48,020.00

Contract No.: I-17-4303 Consultant: Burns & McDonnell Engineering Co., Inc.

Date: 10/1/2018

EXHIBIT C-1: PAYROLL CLASSIFICATION ESCALATION TABLE

CONTRACT TERM: 3 No. OF MONTHS
 SCHEDULED START DATE: 10/1/2018
 RAISE DATE: 10/1/2018
 PERCENT OF RAISE: 0%

ESCALATION PER YEAR Year 1 through 5

10/1/2018	-				
Date		Date	Date	Date	Date
0.0		3.0			
3.0		3.0	3.0	3.0	3.0
Factor First Period		Escalation Factor Third Period		Escalation Factor Fifth Period	
100.00%		Escalation Factor Fourth Period		Escalation Factor Sixth Period	
Escalation Factor Second Period		Escalation Factor Ninth Period		Escalation Factor Tenth Period	

ESCALATION PER YEAR Year 6 through 10

	-				
Date		Date	Date	Date	Date
3.0		3.0			
3.0		3.0	3.0	3.0	3.0
Escalation Factor Sixth Period		Escalation Factor Eighth Period		Escalation Factor Tenth Period	
Escalation Factor Seventh Period		Escalation Factor Ninth Period		Escalation Factor Tenth Period	

The escalation factor for this project is: 100.00%

Contract No.: I-17-4303

Date: 10/11/2018

Consultant: Burns & McDonnell Engineering Co., Inc.

Escalation Factor: 100.00%
(From Exhibit C-1)

EXHIBIT C-2: DIRECT LABOR CLASSIFICATION MAN-HOURS AND RATES										DIRECT COST OVERTIME PREMIUM		
Classification Eligible for Premium Overtime?	Tollway Classification	Tollway MINIMUM Hourly Rate for Classification	Tollway MAXIMUM Hourly Rate for Classification	Average Hourly Rate for Classification (See Note A to Right)	Escalated Average Hourly Rate for Classification (See Note B to Right)	Estimated Work Hours (Including Overtime)	Total Direct Labor	Total Estimated Work Hours:	Average Premium O/T Hourly Rate:	Total Overtime Premium:	Escalated Average Premium Overtime Hourly Rate (See Note C to Right)	Estimated Overtime Hours (Overtime Hours Only) (See Note D to Right)
No	Principal	\$50.00	\$70.00					350.00				
No	Project Manager	\$40.00	\$70.00	\$49.00	\$49.00	350.00						
No	Senior Engineer/Planner	\$40.00	\$70.00									
No	Resident Engineer	\$40.00	\$70.00									
No	Project Engineer/Planner	\$25.00	\$60.00									
No	Staff Engineer/Planner	\$20.00	\$40.00									
No	Engineer /Accountant	\$20.00	\$60.00									
No	Senior Technical Specialist	\$25.00	\$60.00									
No	Technical Specialist	\$15.00	\$50.00									
No	Architect	\$30.00	\$70.00									
No	Realty Specialists	\$20.00	\$70.00									
No	Intern	\$8.25	\$20.00									
No	Admin/Clerical	\$8.25	\$40.00									

Contract No.: I-17-4303

Consultant: Burns & McDonnell Engineering Co., Inc.

EXHIBIT E - KEY PROJECT PERSONNEL

Project Principal: _____

Project Manager: _____

Project Engineer: _____

Resident Engineer: _____

Documentation Engineer: _____

Project Civil Engineer: Matthew Papirnik, PE, PTOE, ENV SP

Project Structural Engineer: _____

Project Drainage Engineer: _____

Senior Engineer: _____

Others: Name: Kevin Eisenbeis, PE, SE

Classification: QMP Structures

Name: _____

Classification: _____

Name: _____

Classification: _____

Name: _____

Classification: _____

APPENDIX TO EXHIBIT F

Contract No. I-17-4303

Burns & McDonnell Engineering Co., Inc.

SCOPE OF SERVICES

Each firm will be bound to the Tollway's Exhibit F Scope of Work as prepared by the Tollway. Each firm will perform only work they are qualified to perform to the professional Standard of Care level required by the Tollway. Work tasks will be assigned by the combined management team consisting of Bowman, Barrett & Associates Inc. and Christopher B. Burke Engineering, Ltd., as required to meet the expectations of the Tollway for this project.

EXHIBIT F
Contract No. I-17-4303
BBACBE_TM
SCOPE OF SERVICES

Design Contract Supplemental Items:

Tasks within the Phase II Design services have resulted in changes in the character or complexity of the scope of work, and include items listed below.

Advanced Engineering Studies (AES): Original budget and scope was developed based on availability of AES documents containing engineering designs, drawings, CADD files, calculations, and other documents developed to a 30% completion level, and included efforts for review and verification of the AES documents. The Project schedule change resulted in partially completed AES documents being transferred to the BBACBE team for direct development into Phase II construction documents. This change added additional effort for the BBACBE team to complete development of partially completed AES design concepts, investigate Contract Package alternatives and related maintenance of traffic concepts. This work needs to be done expeditiously to meet the design schedule.

Bridge Deck Replacements: Original budget included patching and overlay work on two of the three bridge decks over Irving Park Road and both bridge decks over Lawrence Avenue. These bridge decks now consist of full deck replacements for design development. This task was not known at the time the original contract was negotiated and must be performed expeditiously to meet the design schedule.

Alternate 8R vs. Alternate 9R: Original budget was developed based on improvements shown within the Phase I Alternate 8R. Subsequently, a new Phase I Alternate 9R was developed and selected as the preferred alternate. This Alternate 9R includes additional improvements requiring additional design effort for roadway, structures (retaining walls), drainage, collector-distributor (C-D) roadway system for southbound between Plaza 33 and the O'Hare Oasis, and lane and ramp modifications in the northbound direction. Alternate 9R design concept was memorialized by the Phase I DSE and did not include 30% level AES design documents. Verifying and developing the 9R Alternative concept details will be performed by the BBACBE team.

Median Flex Lane: After the 60% submittal under this contract, direction was received to meet modified flex lane criteria, requiring additional drainage and roadway design efforts.

Median Reconstruction: Original budget was developed based on patching and rehabilitation of the median. Construction scope for the median now consists of complete reconstruction, requiring additional design and detailing efforts.

ITS: Original budget was limited to effort to draft details and locations developed by others under a separate corridor-wide ITS contract. Due to schedule acceleration it was determined that the corridor-wide ITS contract would not be available for expedited use, requiring additional efforts under our contract to design and detail ITS elements and infrastructure within our section. These additional efforts are required for multiple ITS systems, including:

- a. Temporary: relocation of the Illinois Tollway fiber optic duct-bank and the Illinois Tollway "Overbuild" fiber optic duct-bank to ensure uninterrupted functionality through both 2018 and 2019 construction contracts.
- b. Permanent: renewal of ITS equipment infrastructure and ITS backbone duct-bank throughout section limits.
- c. ATM: layout and design of foundation locations for Automated Traffic Management (ATM) structures, including coordinating locations with proposed and existing Overhead Sign Structures (OHSS).

Plaza 33 Modifications: Original budget included no work on Plaza 33. Through the course of design development, modifications to Plaza 33 became necessary to accommodate a 5th southbound lane through the Plaza 33 Open Road Tolling (ORT) infrastructure. Additional efforts include extension and modification of camera, antenna support systems and Violation Enforcement System, additional axle detector loops, and the creation of a service roadway allowing vehicular access to ORT equipment cabinets from the cash-lane side of the Plaza.

Lighting Photometrics: Original budget was based on lighting photometric calculations being performed by others under a separate corridor-wide contract. Due to schedule acceleration it is necessary for photometric calculations for both temporary lighting and permanent lighting to be performed under this contract.

Balmoral Bridge Repairs: During inspection of the Balmoral Bridge new impact damage was discovered on one of the beams requiring repair plans under our contract.

Overhead Sign Structure Layout: Original budget was based on corridor-wide determination of OHSS locations by others. Due to schedule acceleration, development of these locations was moved into this contract, including removal of bridge mounted signs at Balmoral Avenue.

Geotechnical: Additional OHSS and ATM locations require additional geotechnical borings.

Retaining Wall Impacts: The Tollway Design Memorandum 18-02 released on May 25, 2018 increases shoulder widths along retaining walls. This will need to be incorporated accordingly. The Alternative 9R also includes two additional retaining walls not included in the original scope of work.

Plats & Legal Descriptions: Original budget included preparation of Right of Way (ROW) documents for all acquisitions planned within our section. Due to schedule acceleration, direction was received that ROW documents started under the Phase I contract would be completed by Phase I instead of our contract. This is a credit to the contract.

EXHIBIT G

Contract No. I-17-4303

Burns & McDonnell Engineering Co., Inc.

CURRENT OBLIGATIONS FOR PROJECT

Route & Job No.	Work Scope & Description of Project	Fee (Including all Supplementals and Extra Work Orders)	Fee Remaining To Be Earned	Estimated Date of Completion
167-007	Rt. 14	\$ 4,690,486.85	\$ 300,000.00	11/30/2018
169-010	Various Phase I	\$ 1,800,000.00	\$ 10,000.00	12/31/2018
173-006	Various Phase I	\$ 1,800,000.00	\$ 250,000.00	12/31/2019
175-017	Various Phase I/II	\$ 850,000.00	\$ 210,000.00	12/31/2019
179-011	I-280 Phase I/II	\$ 342,050.00	\$ 145,000.00	5/31/2019
183-005	Monroe	\$ 1,817,912.03	\$ 1,293,000.00	5/31/2019
185-008	Various Phase III	\$ 100,000.00	\$ 100,000.00	10/31/2018
D-3-102	Wash-Wab CTA Station	\$ 3,340,332.03	\$ 90,000.00	12/31/2018
E-6-149	Western Ave over Belmont Ave	\$ 2,011,574.23	\$ 5,000.00	9/30/2018
S-7-217	61st Street Master Plan	\$ 71,000.00	\$ 60,000.00	12/31/2019
I-14-4186	I-90 East of Oakton to East of Lee St.	\$ 15,000,000.00	\$ 69,000.00	12/31/2018
I-17-4678	Elgin O'Hare Western Access, Pratt to Touhy Av	\$ 2,683,000.00	\$ 1,700,000.00	9/30/2020
RR-16-4254	I-88 IL 56 to Annie Glidden	\$ 3,758,000.00	\$ 1,800,000.00	9/30/2019

EXHIBIT H - SERVICES BY OTHERS

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

DBE/MBE/WBE SUBCONSULTANTS

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** Additional services funds require prior authorization before use

TOTAL DBE/MBE/WBE Subconsultants: \$ -

TOTAL Additional Services DBE/MBE/WBE Subconsultants: \$ -

TOTAL Allowable Fee DBE/MBE/WBE Subconsultants: \$ -

DBE/MBE/WBE Percentage of Total Fee (includes Additional Services): _____

DBE/MBE/WBE Percentage of Total Fee (does not include Additional Services): _____

EXHIBIT H - SERVICES BY OTHERS (continued)

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

OTHER SUBCONSULTANTS (NOT DBE/MBE/WBE)

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** Additional services funds require prior authorization before use

TOTAL Non-DBE/MBE/WBE Subconsultants: \$ -

TOTAL Additional Services Non-DBE/MBE/WBE Subconsultants: \$ -

TOTAL Allowable Fee Non-DBE/MBE/WBE Subconsultants: \$ -

Contract Information Sheet

Complete the following information and it will be populated on every exhibit.

Consultant Name: Environmental Design International inc.

Contract Number: I-17-4303

Proposal Date: 10/1/2018

Exhibit Pointers Editable cells in each exhibit are underlined in red

Notes and guidance for each exhibit are on the right of the exhibits in yellow text boxes

A full set of instructions to complete the exhibits is available on the Tollway's website

Contract No.: I-17-4303

Consultant: Environmental Design International inc.

EXHIBIT B: FEE CALCULATIONS

A. DIRECT LABOR (without overtime)

$$\frac{1,500.00}{\text{(Total Work Hours from Exhibit C-2)}} \times \$ \frac{45.00}{\text{(Average Hourly Rate from Exhibit C-2)}} = \text{TOTAL DIRECT SALARY } \$ \underline{67,500.00}$$

Multiplier to be used on this project: 2.80
Allowable Multiplier = (2.8 DSE) (2.5 or 2.8 CM) (2.5 PMO)

DIRECT REGULAR SALARY TIMES MULTIPLIER \$ 189,000.00

B. REIMBURSABLE DIRECT COSTS NOT ELIGIBLE FOR PROFIT

(For Prime Consultant listed above.)

TOTAL DIRECT COSTS _____

C. SERVICES BY OTHERS

Total Allowable Fee DBE/MBE/WBE Subconsultant (from Exhibit H) \$ _____ -

Total Allowable Fee Non-DBE/MBE/WBE Subconsultant (from Exhibit H (cont)) \$ _____ -

TOTAL SERVICES BY OTHERS \$ _____ -

D. ADDITIONAL SERVICES (Prime Consultant)

(Requires prior authorization before use)

ADDITIONAL SERVICES (Subconsultants)

(Requires prior authorization before use)

TOTAL ADDITIONAL SERVICES \$ _____ -
(Requires prior authorization before use)

E. MAXIMUM ALLOWABLE FEE (Upper Limit of Compensation)

\$ 189,000.00

Contract No.: I-17-4303 Consultant: Environmental Design International inc.

Date: 10/1/2018

EXHIBIT C-1: PAYROLL CLASSIFICATION ESCALATION TABLE

CONTRACT TERM: 3 No. OF MONTHS
 SCHEDULED START DATE: 10/1/2018
 RAISE DATE: 10/1/2018
 PERCENT OF RAISE: 0%

ESCALATION PER YEAR Year 1 through 5

Date	Date	Date	Date	Date	Date
10/1/2018	-	10/1/2018	-	10/1/2018	-
0.0	3.0	3.0	3.0	3.0	3.0
Factor First Period		Escalation Factor Second Period		Escalation Factor Third Period	
100.00%		Escalation Factor Fourth Period		Escalation Factor Fifth Period	

ESCALATION PER YEAR Year 6 through 10

Date	Date	Date	Date	Date	Date
-	-	-	-	-	-
3.0	3.0	3.0	3.0	3.0	3.0
Escalation Factor Sixth Period		Escalation Factor Seventh Period		Escalation Factor Eighth Period	
Escalation Factor Ninth Period		Escalation Factor Tenth Period			

The escalation factor for this project is: 100.00%

Contract No.: I-17-4303

Consultant: Environmental Design International inc.

Date: 10/1/2018

Escalation Factor: 100.00%

(From Exhibit C-1)

EXHIBIT C-2: DIRECT LABOR CLASSIFICATION MAN-HOURS AND RATES										DIRECT COST OVERTIME PREMIUM		
Classification Eligible for Premium Overtime?	Tollway Classification	Tollway MINIMUM Hourly Rate for Classification	Tollway MAXIMUM Hourly Rate for Classification	Average Hourly Rate for Classification (See Note A to Right)	Escalated Average Hourly Rate for Classification (See Note B to Right)	Estimated Work Hours (Including Overtime)	Total Estimated Work Hours:		Escalated Average Premium Overtime Hourly Rate (See Note C to Right)	Estimated Overtime Hours (Overtime Hours Only) (See Note D to Right)		
							Total Estimated Work Hours:	Average Premium O/T Hourly Rate:				
No	Principal	\$50.00	\$70.00	\$70.00	\$70.00	5.00	1,500.00	\$45.00				
No	Project Manager	\$40.00	\$70.00	\$69.50	\$69.50	90.00						
No	Senior Engineer/Planner	\$40.00	\$70.00	\$62.09	\$62.09	275.00						
No	Resident Engineer	\$40.00	\$70.00									
No	Project Engineer/Planner	\$25.00	\$60.00	\$52.35	\$52.35	230.00						
No	Staff Engineer/Planner	\$20.00	\$40.00	\$34.44	\$34.44	549.00						
No	Engineer /Accountant	\$20.00	\$60.00									
No	Senior Technical Specialist	\$25.00	\$60.00	\$39.27	\$39.27	204.00						
No	Technical Specialist	\$15.00	\$50.00	\$32.74	\$32.74	127.00						
No	Architect	\$30.00	\$70.00									
No	Really Specialists	\$20.00	\$70.00									
No	Intern	\$8.25	\$20.00									
No	Admin/Clerical	\$8.25	\$40.00	\$35.52	\$35.52	20.00						
Total Direct Labor							\$67,500.00					

Contract No.: I-17-4303

Consultant: Environmental Design International inc.

Date: 10/1/2018

EXHIBIT C-3: DIRECT LABOR EMPLOYEE CLASSIFICATION LIST

Tollway Classification	Consultant Classification (specific to each company)	Consultant Employee Name (SEE NOTE 1 TO RIGHT)	Range per Hour
Principal	Program Manager	Michael Ring	\$50 - \$70
Project Manager	Engineer III	Graig Neville	\$40 - \$70
	Surveyor II	William Fleming	
Senior Engineer/Planner	Engineer III	Michal Bartusiewicz	\$40 - \$70
	Senior Consulting Engineer	Glenn Schimer	
	Engineer III	Klye Chamberlain	
Resident Engineer			\$40 - \$70
Project Engineer/Planner	Engineer II	Jillyn K. O'Shea	\$25 - \$60
	Environmental Engineer III	Felix Moran	
Staff Engineer/Planner	Engineer I	Haider Nadir	\$20 - \$40
	Engineer I	Brendan Famham	
	Engineer I	Sarah Fayh	
	Engineer I	Terry Haynes	
Engineer /Accountant			\$20 - \$60
Senior Technical Specialist	Surveyor II	LeaAnn Graves	\$25 - \$60
	Surveyor I	Matthew Westerkamp	
	Task Manager	Scott Dileto	
	Task Manager		
Technical Specialist	Survey Crew Chief	Jeffry Flowers	\$15 - \$50
	Survey Crew Chief	John Toczyłowski	
	Survey Instrument Person	Daniel Herman	
	Survey Instrument Person	Daniel Check	
	CADD Technician	Jason Szabo	
	CADD Technician	Keith Richardson	
	Environmental Scientist II	Nick Szymanski	
	Environmental Scientist I	Collen Schwartz	
	Environmental Technician	Anthony Spalla	

Contract No.: I-17-4303

Consultant: Environmental Design International inc.

EXHIBIT E - KEY PROJECT PERSONNEL

Project Principal: _____

Project Manager: _____

Project Engineer: _____

Resident Engineer: _____

Documentation Engineer: _____

Project Civil Engineer: Jillyn K. O'Shea, PE

Project Structural Engineer: _____

Project Drainage Engineer: _____

Senior Engineer: _____

Others: Name: _____

Classification: _____

Name: _____

Classification: _____

Name: _____

Classification: _____

Name: _____

Classification: _____

APPENDIX TO EXHIBIT F

Contract No. I-17-4303

Environmental Design International Inc.

SCOPE OF SERVICES

Each firm will be bound to the Tollway's Exhibit F Scope of Work as prepared by the Tollway. Each firm will perform only work they are qualified to perform to the professional Standard of Care level required by the Tollway. Work tasks will be assigned by the combined management team consisting of Bowman, Barrett & Associates Inc. and Christopher B. Burke Engineering, Ltd., as required to meet the expectations of the Tollway for this project.

EXHIBIT F
Contract No. I-17-4303
BBACBE_TM
SCOPE OF SERVICES

Design Contract Supplemental Items:

Tasks within the Phase II Design services have resulted in changes in the character or complexity of the scope of work, and include items listed below.

Advanced Engineering Studies (AES): Original budget and scope was developed based on availability of AES documents containing engineering designs, drawings, CADD files, calculations, and other documents developed to a 30% completion level, and included efforts for review and verification of the AES documents. The Project schedule change resulted in partially completed AES documents being transferred to the BBACBE team for direct development into Phase II construction documents. This change added additional effort for the BBACBE team to complete development of partially completed AES design concepts, investigate Contract Package alternatives and related maintenance of traffic concepts. This work needs to be done expeditiously to meet the design schedule.

Bridge Deck Replacements: Original budget included patching and overlay work on two of the three bridge decks over Irving Park Road and both bridge decks over Lawrence Avenue. These bridge decks now consist of full deck replacements for design development. This task was not known at the time the original contract was negotiated and must be performed expeditiously to meet the design schedule.

Alternate 8R vs. Alternate 9R: Original budget was developed based on improvements shown within the Phase I Alternate 8R. Subsequently, a new Phase I Alternate 9R was developed and selected as the preferred alternate. This Alternate 9R includes additional improvements requiring additional design effort for roadway, structures (retaining walls), drainage, collector-distributor (C-D) roadway system for southbound between Plaza 33 and the O'Hare Oasis, and lane and ramp modifications in the northbound direction. Alternate 9R design concept was memorialized by the Phase I DSE and did not include 30% level AES design documents. Verifying and developing the 9R Alternative concept details will be performed by the BBACBE team.

Median Flex Lane: After the 60% submittal under this contract, direction was received to meet modified flex lane criteria, requiring additional drainage and roadway design efforts.

Median Reconstruction: Original budget was developed based on patching and rehabilitation of the median. Construction scope for the median now consists of complete reconstruction, requiring additional design and detailing efforts.

ITS: Original budget was limited to effort to draft details and locations developed by others under a separate corridor-wide ITS contract. Due to schedule acceleration it was determined that the corridor-wide ITS contract would not be available for expedited use, requiring additional efforts under our contract to design and detail ITS elements and infrastructure within our section. These additional efforts are required for multiple ITS systems, including:

- a. **Temporary:** relocation of the Illinois Tollway fiber optic duct-bank and the Illinois Tollway "Overbuild" fiber optic duct-bank to ensure uninterrupted functionality through both 2018 and 2019 construction contracts.
- b. **Permanent:** renewal of ITS equipment infrastructure and ITS backbone duct-bank throughout section limits.
- c. **ATM:** layout and design of foundation locations for Automated Traffic Management (ATM) structures, including coordinating locations with proposed and existing Overhead Sign Structures (OHSS).

Plaza 33 Modifications: Original budget included no work on Plaza 33. Through the course of design development, modifications to Plaza 33 became necessary to accommodate a 5th southbound lane through the Plaza 33 Open Road Tolling (ORT) infrastructure. Additional efforts include extension and modification of camera, antenna support systems and Violation Enforcement System, additional axle detector loops, and the creation of a service roadway allowing vehicular access to ORT equipment cabinets from the cash-lane side of the Plaza.

Lighting Photometrics: Original budget was based on lighting photometric calculations being performed by others under a separate corridor-wide contract. Due to schedule acceleration it is necessary for photometric calculations for both temporary lighting and permanent lighting to be performed under this contract.

Balmoral Bridge Repairs: During inspection of the Balmoral Bridge new impact damage was discovered on one of the beams requiring repair plans under our contract.

Overhead Sign Structure Layout: Original budget was based on corridor-wide determination of OHSS locations by others. Due to schedule acceleration, development of these locations was moved into this contract, including removal of bridge mounted signs at Balmoral Avenue.

Geotechnical: Additional OHSS and ATM locations require additional geotechnical borings.

Retaining Wall Impacts: The Tollway Design Memorandum 18-02 released on May 25, 2018 increases shoulder widths along retaining walls. This will need to be incorporated accordingly. The Alternative 9R also includes two additional retaining walls not included in the original scope of work.

Plats & Legal Descriptions: Original budget included preparation of Right of Way (ROW) documents for all acquisitions planned within our section. Due to schedule acceleration, direction was received that ROW documents started under the Phase I contract would be completed by Phase I instead of our contract. This is a credit to the contract.

EXHIBIT G

Contract No. I-17-4303

Environmental Design International inc.

CURRENT OBLIGATIONS FOR PROJECT

Route & Job No.	Work Scope & Description of Project	Fee (Including all Supplementals and Extra Work Orders)	Fee Remaining To Be Earned	Estimated Date of Completion
RR-16-4267	Maintenance Facilities Design	\$3,900,000.00	\$2,219,930.00	6/30/2020
PTB 162-16	Various Land Acquisition Surveys, D1	\$500,000.00	\$213,000.00	3/1/2019
PTB 175-09	Land Acquisition US 45 / IL 21, D1	\$1,000,000.00	\$810,929.00	9/15/2025
RR-13-5660	I-88 Dixon to Rock Falls	\$17,300.00	\$1,853.00	11/30/2016
RR-12-4079	Maintenance Facilities System-wide	\$445,676.00	\$170,319.00	6/30/2017
PTB 169-14	Various Phase I Projects, D1	\$1,146,000.00	\$447,627.00	3/3/2018
PTB 172-01	US 41 / I-55 Phase III Outbound	\$2,343,595.00	\$1,108,891.00	10/31/2017
PTB 172-27	Hazardous Waste (Sub to Ecol & Env.)	\$800,000.00	\$634,086.00	2/20/2018
PTB 176-01	Hazardous Waste (Sub to Ecol & Env.)	\$525,000.00	\$505,246.00	3/3/2023

EXHIBIT H - SERVICES BY OTHERS

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

DBE/MBE/WBE SUBCONSULTANTS

<p>1 _____</p> <p>Direct Labor _____</p> <p>Direct Costs _____</p> <p>Services by Others _____</p> <p>Additional Services ** _____</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>6 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>2 _____</p> <p>Direct Labor _____</p> <p>Direct Costs _____</p> <p>Services by Others _____</p> <p>Additional Services ** _____</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>7 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>3 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>8 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>4 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>9 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>
<p>5 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>	<p>10 _____</p> <p>Direct Labor _____</p> <p>Direct Costs \$ -</p> <p>Services by Others \$ -</p> <p>Additional Services ** \$ -</p> <p>Total this Subconsultant (ULC) \$ -</p>

** Additional services funds require prior authorization before use

TOTAL DBE/MBE/WBE Subconsultants: \$ -

TOTAL Additional Services DBE/MBE/WBE Subconsultants: \$ -

TOTAL Allowable Fee DBE/MBE/WBE Subconsultants: \$ -

DBE/MBE/WBE Percentage of Total Fee (includes Additional Services): _____

DBE/MBE/WBE Percentage of Total Fee (does not include Additional Services): _____

EXHIBIT H - SERVICES BY OTHERS (continued)

Exhibits A-G must be submitted for each subconsultant listed below. If a subconsultant requires "Services by Others", they must include Exhibit H and attach Exhibits A-G for second tier subconsultants.

OTHER SUBCONSULTANTS (NOT DBE/MBE/WBE)

1	<hr/>		
	Direct Labor	<hr/>	
	Direct Costs	<hr/>	
	Services by Others	<hr/>	
	Additional Services **	<hr/>	
	Total this Subconsultant (ULC)	\$	-

6	<hr/>		
	Direct Labor	<hr/>	
	Direct Costs	\$	-
	Services by Others	\$	-
	Additional Services **	\$	-
	Total this Subconsultant (ULC)	\$	-

2	<hr/>		
	Direct Labor	<hr/>	
	Direct Costs	<hr/>	
	Services by Others	<hr/>	
	Additional Services **	<hr/>	
	Total this Subconsultant (ULC)	\$	-

7	<hr/>		
	Direct Labor	<hr/>	
	Direct Costs	\$	-
	Services by Others	\$	-
	Additional Services **	\$	-
	Total this Subconsultant (ULC)	\$	-

3	<hr/>		
	Direct Labor	\$	-
	Direct Costs	\$	-
	Services by Others	\$	-
	Additional Services **	\$	-
	Total this Subconsultant (ULC)	\$	-

8	<hr/>		
	Direct Labor	\$	-
	Direct Costs	\$	-
	Services by Others	\$	-
	Additional Services **	\$	-
	Total this Subconsultant (ULC)	\$	-

4	<hr/>		
	Direct Labor	\$	-
	Direct Costs	\$	-
	Services by Others	\$	-
	Additional Services **	\$	-
	Total this Subconsultant (ULC)	\$	-

9	<hr/>		
	Direct Labor	\$	-
	Direct Costs	\$	-
	Services by Others	\$	-
	Additional Services **	\$	-
	Total this Subconsultant (ULC)	\$	-

5	<hr/>		
	Direct Labor	\$	-
	Direct Costs	\$	-
	Services by Others	\$	-
	Additional Services **	\$	-
	Total this Subconsultant (ULC)	\$	-

10	<hr/>		
	Direct Labor	\$	-
	Direct Costs	\$	-
	Services by Others	\$	-
	Additional Services **	\$	-
	Total this Subconsultant (ULC)	\$	-

** Additional services funds require prior authorization before use

TOTAL Non-DBE/MBE/WBE Subconsultants: \$ -

TOTAL Additional Services Non-DBE/MBE/WBE Subconsultants: \$ -

TOTAL Allowable Fee Non-DBE/MBE/WBE Subconsultants: \$ -