

THREE PARTY DESIGN ENGINEERING SERVICES CONTRACT
SIGNATURE PAGES
ENGINEERING SERVICES CONTRACT

BETWEEN THE WISCONSIN DEPARTMENT OF TRANSPORTATION,
MILWAUKEE COUNTY (MUNICIPALITY)
AND OLSON & NESVOLD ENGINEERS, PSC (CONSULTANT) FOR

Project ID 2967-01-03
Lake Park Arch Bridge Rehabilitation
Over Ravine Drive
Non-Highway, Milwaukee County
PeopleSoft Account Number 8705122

This CONTRACT made and entered into by and between the DEPARTMENT, MUNICIPALITY and the CONSULTANT provides for those SERVICES described in the Scope of Services and Special Provisions and is generally for the purpose of providing the SERVICES solicited by the MUNICIPALITY in a Request for Proposals for the Project dated February 12, 2019 with proposals received by MUNICIPALITY by March 12, 2019 and for these general Services: Preparation of designs, plans, specifications and estimates for Historic Bridge Rehabilitation, includes approach roadways/paths on each end of bridge and includes landscaping improvements to the slope embankments at each end of the bridge, all to restore service life for the existing 115-year-old historic concrete reinforced arch bridge for another 50 years. This Qualification Based Selection was made based on the CONSULTANT'S Notice of Interest response and any interviews conducted.

The DEPARTMENT and MUNICIPALITY deem it advisable to engage the CONSULTANT to provide certain engineering SERVICES and has authority to contract for these SERVICES under sec. 84.01(13), Wis. Stats.

The DEPARTMENT REPRESENTATIVE is: Greg Hafeman, P.E., SE Local Program Design Project Manager, 141 NW Barstow Street, PO Box 798, Waukesha, WI 53187; (262)-548-8677; greg.hafeman@dot.wi.gov.

The MUNICIPALITY REPRESENTATIVE is: Karl Stave, P.E., Architecture, Engineering & Environmental Services DAS - Facilities Management Division, Milwaukee County, 633 W. Wisconsin Ave. Suite 1000, Milwaukee, WI 53203; Karl.Stave@milwaukeecountywi.gov; (414) 278-4863.

The CONSULTANT REPRESENTATIVE is: Steve Olson, P.E., Olson & Nesvold Engineers, P.S.C., 8000 West 78th Street, Suite #410, Edina, MN 55439; steve.olson@one-mn.com; (952) 843-8659.

The CONSULTANT SERVICES will be performed for the DEPARTMENT's Southeast Region office located in Waukesha, WI and will be completed by December 31, 2020. Deliver PROJECT DOCUMENTS to 633 West Wisconsin Avenue, Suite 1006, Milwaukee, Wisconsin 53203, unless other directions are given by the DEPARTMENT.

Compensation for all SERVICES provided by the CONSULTANT under the terms of the CONTRACT will be from the:

DEPARTMENT MUNICIPALITY

A. Prime Consultant Basis of Payment:

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For all Contract services, except for subconsultant services listed hereinbelow, a lump sum of \$243,409.61 (Two Hundred Forty-three Thousand Four Hundred Nine Dollars Sixty-one Cents)

B. Subcontract Basis of Payment 1st Tier Subconsultant

1. For preparation of Rehabilitation Structure Survey Report; abbreviated Design Study Report; Environmental Document (PCE); Section 106 Documentation; Agency Coordination, incl. WisDNR; One (1) Site Visit for Bridge Assessment; Roadway/Path Approaches to Bridge; Embankment/Landscaping for Ravine Under Bridge; Erosion Control; Assistance with One (1) Open House Public Information Meeting; One (1) Operational Planning Meeting (Kickoff Meeting); six Project Meetings; Assembling PS&E at 30%, 60% and 90% Stages; Assembling Final PS&E Documents; subcontracted to Mead & Hunt, Inc., the CONSULTANT'S actual cost to Mead & Hunt, Inc. based on a lump sum of \$105,374.09 (One Hundred Five Thousand Three Hundred Seventy-four Dollars Nine Cents)
2. For review of concrete repair methods for conformance to Preservation Brief 15 and for developing "green" concrete mixes, participation in the development of concrete repair strategies, develop concrete repair special provisions to augment WisDOT Standard Specifications for Highway and Structure Construction and develop a bridge maintenance schedule consistent with extending the life of the bridge for 50 years is subcontracted to Wiss, Janney, Elstner Associates, the CONSULTANT'S actual cost to Wiss, Janney, Elstner Associates based on a lump sum of \$23,152.19 (Twenty-three Thousand One Hundred Fifty-two Dollars Nineteen Cents).
3. For Utility Coordination; One (1) Operational Planning Meeting (Kickoff Meeting); Progress Meetings; development of estimates of Probable Construction Costs at the 30%, 60%, 90% and Final stages of project development, development of a constructability review at the 60% stage of project development and Overall Review of Deliverables subcontracted to Malas Engineering, LLC (DBE), the CONSULTANT'S actual cost to Malas Engineering, LLC based on a lump sum of \$13,325.17 (Thirteen Thousand Three Hundred Twenty-five Dollars Seventeen Cents).
4. For development of a Phase I hazardous material investigation, taking two boring and providing a geotechnical report is subcontracted to Himalayan Consultants, LLC (DBE), the CONSULTANT'S actual cost to Himalayan Consultants LLC based on a lump sum of \$14,426.82 (Fourteen Thousand Four Hundred Twenty-six Dollars Eighty-two Cents).

C. Total Contract

Compensation for all SERVICES provided by the CONSULTANT under the terms of the CONTRACT shall be for an amount not to exceed \$399,687.88 (Three Ninety-nine Thousand Six Hundred Eighty-seven Dollars Eighty-eight Cents). CONSULTANT'S invoices shall be submitted to the municipality.

The CONSULTANT does and will comply with the laws and regulations relating to the profession of engineering and will provide the desired engineering SERVICES.

This CONTRACT incorporates and the parties agree to all of the standard provisions of the Three-Party Design Engineering Services Contract, dated July 1, 2015 and referenced in Procedure 8-15-1 of the State of Wisconsin Department of Transportation Facilities Development Manual. CONSULTANT acknowledges receipt of a copy of these standard provisions. Services will be performed in accordance with the DEPARTMENT'S Sponsor's Guide to Non-Traditional Transportation Project Implementation, August 2018 Edition.

This CONTRACT incorporates all of the MANUALS defined in the CONTRACT.

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The parties also agree to all of the Standard Provision and Special Provisions which are annexed and made a part of this CONTRACT, consisting of 31 pages.

Nothing in this CONTRACT accords any third part beneficiary rights whatsoever on any non-party that may be enforced by any non-party to this contract.

For the CONSULTANT

By: _____

Steven A. Olson

Title: President and Owner

Date: _____

For the DEPARTMENT

By: _____

Contract Manager, WisDOT

Date: _____

For the MUNICIPALITY

By: See Following Page for Municipality
Authorization

Title: _____

Dated: _____

Approved

By: _____

Governor, State of Wisconsin

Date: _____

IN WITNESS WHEREOF, This Agreement executed the day and year first above written.

FOR MILWAUKEE COUNTY:

Gregory G. High, Director (Date)
DAS- Architecture, Engineering
And Environmental Services

Teig Whaley Smith, Director (Date)
Administrative Services

Stuart Carron, Director (Date)
DAS- Facilities Management Division

Chris Abele, County Executive (Date)
Office of the County Executive

APPROVED AS TO FUNDS AVAILABLE FOR WISCONSIN STATE STATUTES SECTION 59.255(2)(E):

Comptroller (Date)
Office of the Comptroller

**REVIEWED AS TO DISADVANTAGED BUSINESS ENTERPRISE REQUIREMENTS
(APPROVED WITH REGARD TO COUNTY ORDINANCE CHAPTER 42):**

Community Business Development Partners (Date)

APPROVED AS TO FORM AND INDEPENDENT CONTRACT STATUS BY CORPORATION COUNSEL:

Corporation Counsel (Date)

REVIEWED AS TO INSURANCE REQUIREMENTS:

Risk Manager (Date)

APPROVED AS COMPLIANT UNDER SEC. 59.42(2)(B)5, STATS.:

Corporation Counsel (Date)

Every contractor and all parties furnishing services or product to County or any of its subsidiary companies must provide County with evidence of the following minimum insurance requirements. In no way do these minimum requirements limit the liability assumed elsewhere in the contract. All parties shall, at their sole expense, maintain the following insurance:

A. Commercial General Liability Insurance including contractual coverage: The limits of this insurance for bodily injury and property damage Combined shall be at least:

Each Occurrence Limit	\$2,000,000
General Aggregate Limit	\$4,000,000
Products – Completed Operations Limit	\$4,000,000
Personal and Advertising injury Limit	\$2,000,000

B. Business Automobile Liability Insurance:

Should the performance of this Agreement involve the use of automobiles, Contractor shall provide comprehensive automobile insurance covering the ownership, operation and maintenance of all owned, non-owned and hired motor vehicles. Contractor shall maintain limits of at least \$2,000,000 per accident for bodily injury and property damage combined.

C. Workers' Compensation Insurance:

Such insurance shall provide coverage in amounts not less than the statutory requirements in the state where the work is performed, even if such coverages are elective in that state.

D. Employers Liability Insurance:

Such insurance shall provide limits of not less than \$1,000,000 policy limit.

E. Professional Liability/Errors and Omissions:

This insurance should insure the professional services of the Contractor for the scope of services to be provided under this contract. Such insurance shall provide limits of not less than \$2,000,000 per occurrence.

F. Excess/Umbrella Liability Insurance

Such insurance shall provide additional limits of not less than \$2,000,000 per occurrence in excess of the limits in (A.), (B.), and (D.) above.

Additional Requirements:

G. Contractor shall require the same minimum insurance requirements, as listed above, of all its contractors, and subcontractors, and these contractors, and subcontractors shall also comply with the additional requirements listed below.

H. The insurance specified in (A.), (B.), and (F.) above shall: (a) name County including its directors, officers, employees and agents as additional insureds by endorsement to

the policies, and, (b) provide that such insurance is primary coverage with respect to all insureds and additional insureds.

- I. The above insurance coverages may be obtained through any combination of primary and excess or umbrella liability insurance. County may require higher limits or other types of insurance coverage(s) as necessary and appropriate under the applicable purchase order.
- J. Except where prohibited by law, all insurance policies shall contain provisions that the insurance companies waive the rights of recovery or subrogation, by endorsement to the insurance policies, against County, its subsidiaries, its agents, servants, invitees, employees, co-lessees, co-venturers, affiliated companies, contractors, subcontractors, and their insurers.
- K. Contractor shall provide certificates evidencing the coverages, limits and provisions specified above on or before the execution of the Agreement and thereafter upon the renewal of any of the policies. Contractor shall require all insurers to provide County with a thirty (30) day advanced written notice of any cancellation, nonrenewal or material change in any of the policies maintained in accordance with this Agreement. Coverage must be placed with carriers with an A. M. Best rating of A- or better.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

5/30/2019

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 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 H. Robert Anderson and Associates, Inc. 8201 Norman Center Drive Suite 220 Bloomington MN 55437	CONTACT NAME: Jeanne Danmeier	
	PHONE (A/C, No, Ext): (952) 893-1933	FAX (A/C, No): (952) 893-1819
E-MAIL ADDRESS:		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED Olson & Nesvold Engineers, P.S.C. 8000 West 78th Street Suite 410 Edina MN 55439	INSURER A: The Phoenix Insurance Company	
	INSURER B: The Travelers Indemnity Company	
	INSURER C: Travelers Cas Ins Co of America	
	INSURER D: XL Specialty Insurance Co.	
	INSURER E:	
INSURER F:		

COVERAGES **CERTIFICATE NUMBER:** 2019 - 2020 **4** **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	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY	X	Y	680-9J44467A-18-47	9/15/2018	9/15/2019	EACH OCCURRENCE \$ 2,000,000	
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000	
	GEN'L AGGREGATE LIMIT APPLIES PER:						MED EXP (Any one person) \$ 5,000	
	<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						PERSONAL & ADV INJURY \$ 2,000,000	
	OTHER:						GENERAL AGGREGATE \$ 4,000,000	
							PRODUCTS - COMP/OP AGG \$ 4,000,000	
							\$	
A	AUTOMOBILE LIABILITY	X	Y	680-9J44467A-18-47	9/15/2018	9/15/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000	
	<input type="checkbox"/> ANY AUTO						<input type="checkbox"/> SCHEDULED AUTOS	BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS						<input checked="" type="checkbox"/> NON-OWNED AUTOS	BODILY INJURY (Per accident) \$
	<input checked="" type="checkbox"/> HIRED AUTOS							PROPERTY DAMAGE (Per accident) \$
							\$	
B	UMBRELLA LIAB	X	Y	CUP-9J44563A-18-47	9/15/2018	9/15/2019	EACH OCCURRENCE \$ 2,000,000	
	<input checked="" type="checkbox"/> EXCESS LIAB						<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE	AGGREGATE \$ 2,000,000
	DED RETENTION \$						\$	
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	Y/N	N/A	UB-9J445327-18-47-G	9/15/2018	9/15/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)							E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
								E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liability	Y		DFR9938115	2/9/2019	2/9/2020	Each Claim/ \$2,000,000	
							Each Policy Year Aggregate \$2,000,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

REISSUED.

Re: Lake Park Arch Bridge Rehabilitation

See accompanying sheet for further information.

This certificate or memorandum of insurance does not affirmatively or negatively amend, extend, or alter the coverages afforded by the insurance policies.

CERTIFICATE HOLDER

Milwaukee County
 Attn: Karl Stave, P.E.
 Project Manager
 633 West Wisconsin Avenue
 Suite 1006
 Milwaukee, WI 53203

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

Theresa M. Anderson

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COMMENTS/REMARKS

05/30/2019

Olson & Nesvold Engineers, P.S.C. - Certificate of Insurance (Cont'd):

Re: Lake Park Arch Bridge Rehabilitation

If required by written, executed contract with Insured, Milwaukee County in Wisconsin and Wisconsin Department of Transportation are additional insureds under above general liability coverage, per that policy's language; such coverage is primary and non-contributory.

If required by written, executed contract with Insured, Milwaukee County in Wisconsin and Wisconsin Department of Transportation are additional insureds under above automobile liability, per that policy's language.

If required by written, executed contract with Insured, Milwaukee County in Wisconsin and Wisconsin Department of Transportation are additional insureds under above umbrella, per that policy's language.

If required by written, executed contract with Insured, and subject to all policy terms and conditions, waiver of subrogation applies to general liability, auto liability, umbrella liability, workers compensation and professional liability.

If required by written, executed contract with Insured, as per the policy endorsement language, a 30 day notice of cancellation applies to general liability, auto liability, umbrella liability, workers compensation and professional liability.

VI. SPECIAL PROVISIONS

SCOPE OF SERVICES

A. DESIGN REPORTS

- (1) Request for Exceptions to Design Standards – Not Required
- (2) Encroachment Report – Not Required
- (3) Prepare a Rehabilitation Structure Survey Report in accordance with the MANUAL.
- (4) Prepare an abbreviated Design Study Report in accordance with the MANUAL.

B. ENVIRONMENTAL DOCUMENTATION

Execute a disclosure statement as required by 40 CFR 1506.5(c).

Prepare Programmatic Categorical Exclusion Checklist (PCE) environmental document for the PROJECT as specified in the Sponsor's Guide and Chapter TRANS 400, Wisconsin Administrative Code. Furnish the required number to the MUNICIPALITY for approval. Prepare the following Factor Sheets for supporting documentation for the Programmatic Categorical Exclusion:

- o B-5, Historic resources (for each of two resources: NRHP-Listed Lake Park and NRHP-eligible Parkway)
- o B-8, Section 4(f) and 6(f) or other unique areas (for each of three resources, NRHP listed Lake Park as a park and historic resource and NRHP-eligible Parkway)
- o B-9, Aesthetics
- o C-7, Threatened and endangered species
- o D-6, Erosion Control

- CONSULTANT shall coordinate with MUNICIPALITY, DEPARTMENT and FHWA to determine Section 4(f) resources and the appropriate Section 4(f) documentation for the Project. The CONSULTANT will coordinate with MUNICIPALITY to determine effects of the Project on the activities, features, or attributes of each Section 4(f) resource.
- A De minimis use or Temporary Occupancy exception is expected for the NRHP- eligible Lake Park Arch Bridge (P-40-576) as a historic resource.
- A Temporary Occupancy exception is expected for Lake Park as both a NRHP- Listed historic resource as well as a recreational use/park. Lake Park is owned and maintained by MUNICIPALITY. A Temporary Occupancy exception is also expected for the NRHP-eligible Lake Michigan Parkway (north). Determinations of Temporary Occupancy exception will be evaluated in the PCE and are not expected to require separate Section 4(f) documentation.

Preparing an environmental document beyond the level of documentation required for a PCE and the listed Factor Sheets will be considered “Extra Services”.

In the event of a conflict between the Sponsor’s Guide and TRANS 400, Wisconsin Administrative Code, the administrative rule supersedes.

(1) Historical Surveys and Studies:

CONSULTANT team member has previously prepared a memorandum entitled "Regulatory Compliance and Next Steps – Lake Park Bridge over Ravine Drive". That memorandum outlines the regulations that the team will consider for this PROJECT. CONSULTANT approach for historical coordination will follow the recommendations contained in that memorandum. Historical coordination efforts with agencies assumes that the rehabilitation design will be able to meet Secretary of the Interior’s Standards and agency coordination will be limited to presentation of one set of rehabilitation plans that are accepted by each agency without revisions or need for additional consultation. It is also assumed that the rehabilitation of the substructure and superstructure will be in-kind per Secretary of the Interior’s Standards and that a replacement railing design will also be able to meet Secretary of the Interior’s Standards. If the railing design cannot meet Secretary of the Interior’s Standards, this will be considered as “Extra Services.”

- (a) Prepare documentation for the determination of effects (No Adverse Effects is assumed in this CONTRACT) as appropriate. Documentation for Consultation in accordance with the MANUAL and in consultation with the FHWA, SHPO, the DEPARTMENT, the MUNICIPALITY and the City of

Milwaukee is not required. If determined to be required, will be considered as “Extra Services”.

- (b) Provide agency coordination with SHPO, the DEPARTMENT and the Historic Preservation Commission related to the City of Milwaukee Historic Preservation Ordinance and Secretary of the Interior's Standards for Rehabilitation.
- (c) Memorandum of Agreement in accordance with the MANUAL in consultation with the FHWA, SHPO, and the BOE is not required. If determined to be required, will be considered as “Extra Services”.

(2) Noise Analysis – Not required

(3) Air Quality – Not required

(4) Hazardous Materials/Contamination Assessments

- (a) Conduct a Phase I investigation for the PROJECT.
- (b) Obtain direction from the MUNICIPALITY's Project Manager and the DEPARTMENT's environmental coordinator prior to conducting further evaluation studies when Phase 1 indicates further work is needed.

C. AGENCY COORDINATION

(1) Section 401 and 402 Certifications –Not required

(2) Section 404 Permits – Not required

(3) Section 9 and 10 Permits – Not required

(4) Coordination shall be provided with the Wisconsin DNR for any DNR permits required for this PROJECT.

D. RAILROAD/ UTILITY INVOLVEMENTS

- (1) Railroad Negotiations/Agreements – Not required
- (2) Utility Coordination – The CONSULTANT shall follow the procedures of the WisDOT Guide to Utility Coordination for Non-TRANS 220 projects. Coordinate utilities near the Project site with the MUNICIPALITY based on utility information to be provided to CONSULTANT by MUNICIPALITY.
- (3) Confer on an ongoing basis with all utility facility owners in the project vicinity to establish mutual understanding on design features of the project affecting utility facilities and shall keep the MUNICIPALITY informed of all such coordination activities. Provide the MUNICIPALITY with plans and information to update utility information provided by MUNICIPALITY.

E. PUBLIC INVOLVEMENT

- (1) Public Involvement Meetings:
 - (a) Conduct or assist the MUNICIPALITY in holding one (1) open house public involvement meeting and explain to the public concepts and probable impacts of this PROJECT.
 - (b) Prepare all exhibits and supplementary handout material and provide the equipment necessary to conduct the public involvement meeting(s).
 - (c) Prepare a summary report after the public involvement meeting(s).
 - (d) Discuss with the MUNICIPALITY the comments received and recommend the possible disposition of these comments and suggestions after the public involvement meeting(s).
 - (e) Make all the necessary arrangements for scheduling the public involvement meeting(s) and provide notices and press releases for the MUNICIPALITY'S use.

- (f) Provide the MUNICIPALITY with copies of all public involvement correspondence and file notes.
- (g) Coordinate meeting schedules with the MUNICIPALITY'S representative.

F. MEETINGS

- (1) Hold an Operational Planning Meeting (Kickoff Meeting) to discuss the organization and processing of the Services under this CONTRACT. This meeting will facilitate through computer collaboration applications (e.g.: WebEx, MS Team, etc.).
- (2) Seven (7) progress meetings shall be held approximately monthly to plan, review, and coordinate the PROJECT with the MUNICIPALITY'S staff. These meetings include PROJECT review meetings at the 30%, 60% and 90% completion stages. All project meetings shall be conducted via phone or webinar.

G. SURVEYS

Survey data will be provided to CONSULTANT by MUNICIPALITY. No additional field survey is required. Survey data will include utilities present at the PROJECT site.

H. SOILS AND SUBSURFACE INVESTIGATIONS

Perform two (2) borings of the existing bridge approaches in order to determine soil conditions and properties for the design of helical piles.

I. ROAD PLANS

Section II C (9) in the Standard Provision of the CONTRACT is amended to delete all references to roadway plans, and is amended to include the following plans:

- Project Overview - Single Sheet Schematic Drawing
- Plans for Asphalt Roadway/Path at Approaches at Each End of Bridge for approximately 100 feet beyond end of bridge
- Landscaping and Turf Establishment Plans for Ravine Slopes Under the Bridge
- Permanent Erosion Control Plans

- Drainage Plans for Slopes Under the Bridge

No Plans will be prepared for Ravine Drive under the bridge.

J. STRUCTURE PLANS

- (1) Structure Survey Report/Hydraulic Report – not required. A Rehabilitation Structure Survey Report will be prepared as noted in Article A. Previous inspections and reports have been prepared by others and will be appended to this Report.
- (2) Plans for Structures shall be fully dimensioned besides showing controlling elevations. The plans shall be prepared with such precision and detail to allow for the convenient layout in the field with customary degree of accuracy, and to allow for the production of an accurate estimate of quantities for all pertinent items of work to be performed in the PROJECT.
- (3) Plans for Structures shall include schedules for bar steel reinforcement. Such schedules shall provide all of the necessary detail required for the fabrication of the reinforcement without the necessity of making separate shop drawings for that purpose.
- (4) When the plans for a structure have been completed the CONSULTANT shall furnish the MUNICIPALITY and the WisDOT BOS with electronic submittals of prints of such plans for review and examination.
- (5) Submit electronic submittals to the MUNICIPALITY and WisDOT BOS for review and examination of all specifications for items of work in the Structure Plans which are not covered by the STANDARD SPECIFICATIONS and such amendments to or revisions of the STANDARD SPECIFICATIONS as may be required to properly cover the work contemplated by the plans.
- (6) Plans will be subject to review and examination by the MUNICIPALITY. Such review and examination may be made on the site of the PROJECT.
- (7) Along with the plans for structures submit one copy or reproduction of the design computations for the MUNICIPALITY'S review and permanent file.

- (8) Develop and submit to the MUNICIPALITY and WisDOT BOS Estimates of Probable Construction Costs at the 30%, 60% and 90% stages of project development for review and comment.

K. PLATS – Not required

L. HIGHWAY SYSTEM CHANGES – Not required

M. TRAFFIC – Not required

N. AASHTOWare

1. Design PC specifications (for design staff working on an engineer's estimate) - Contracts with projects that have PS&E dates of February 1, 2019, and beyond, go to the AASHTOWare Project Knowledge Base web site, <https://awpkb.dot.wi.gov/Content/Default.htm> , for information about supported web browsers, how to obtain system access, and how to use AASHTOWare Project Preconstruction and AASHTOWare Project Estimator to create an engineer's estimate. (January 10, 2019)

O. SERVICES PROVIDED BY THE MUNICIPALITY

The MUNICIPALITY will provide to the CONSULTANT the following for the PROJECT:

- (1) Copies of previous inspections, reports, calculations and assessments of the bridge.
- (2) Copies of plans of the existing bridge as may be available.
- (3) Copies of utility plans for utilities in the vicinity of the bridge.
- (4) Plans and specifications for features such as benches or decorative lights as may be requested for inclusion in the Project.
- (5) Field topographic survey data in AutoCAD format. All known MUNICIPALITY and private utilities will be placed on the topo survey drawing.

PROSECUTION AND PROGRESS

- (1) The CONSULTANT shall report on the progress of the PROJECT as stipulated in the contract agreement. Standard benchmarks, consistent with DEPARTMENT'S internal staff benchmarks, will be reported monthly to the DEPARTMENT. The actual start, projected or actual finish date, and percent of work complete will be included

for all relevant benchmarks on any project report required for delivery to DEPARTMENT staff. The report can be delivered in electronic format consistent with current DEPARTMENT standards (Microsoft Project), or on paper.

- (2) The CONSULTANT proposes to sublet these services to:

Mead & Hunt, Inc. – Rehabilitation Structure Survey Report; abbreviated Design Study Report; Environmental Document (PCE); Section 106 Documentation; Agency Coordination, incl. WisDOT; One (1) Site Visit for Bridge Assessment; Roadway/Path Approaches to Bridge; Embankment/Landscaping for Ravine Under Bridge; Erosion Control; Assistance with One (1) Open House Public Information Meeting; One (1) Operational Planning Meeting (Kickoff Meeting); 7 additional Project Meetings; Assembling PS&E at 30%, 60% and 90% Stages; Assembling Final PS&E Documents; Designs and PS&E for Bridge Superstructure Deck and Parapets.

Wiss, Janney, Elstner Associates – Review concrete repair methods for conformance to Preservation Brief 15 and develop “green” concrete mixes, participation in the development of concrete repair strategies, develop concrete repair special provisions to augment WisDOT Standard Specifications for Highway and Structure Construction and develop a bridge maintenance schedule consistent with extending the life of the bridge for 50 years.

Malas Engineering LLC (DBE) – Utility Coordination; Preparation of Probable Construction Cost Estimates; One (1) Operational Planning Meeting (Kickoff Meeting); Assistance; constructability review of the construction documents and utility coordination.

Himalayan Consultants, LLC (DBE) - Phase 1 Hazardous Material investigation and geotechnical investigation.

- (3) The following items of work will be completed and submitted to the MUNICIPALITY by the indicated dates, if CONSULTANT has received the Notice to Proceed by July 1, 2019.

Deliverable Title	Date
Public Information Meeting	December 2019
30% Completion Stage Submittal	January 2020
Structure Survey Report Submittal	January 2020
Environmental Document Submittal	February 2020
Design Study Report Submittal	March 2020
60% Completion Stage Submittal	May 2020
90% Completion Stage Submittal	October 2020
Final PS&E Submittal.	December 2020

ACCESS TO RECORDS

The CONSULTANT'S record of the Services provided under this CONTRACT will be available for inspection and copying at: Olson & Nesvold Engineers, PSC, 8000 W. 78th Street, Suite #410, Edina, MN 55439. The contact person is Rich Johnson.

ONE Task Code	Task	ONE						Total Hours By Line	% of Total Hrs.
		P-I-C	PM/Eng 1	Eng. 2	Eng. 3	Tech 1	Tech 2		
4	Kick Off Meeting	2.0	6.0					8	0.5%
5	County / Preser. Agency Coord. Mtg. 1		4.0					4	0.2%
6	County / Preser. Agency Coord. Mtg. 2		4.0					4	0.2%
7	County / Preser. Agency Coord. Mtg. 3		4.0					4	0.2%
8	Public Open House Meeting (PIM)		4.0					4	0.2%
9	Progress Mtgs - 4 Assumed		8.0					8	0.5%
27	30% Plan Review Meeting		5.0					5	0.3%
28	60% Plan Review Meeting		5.0					5	0.3%
29	90% Plan Review Meeting		5.0					5	0.3%
30	Project Progress Reports & Invoices		14.0					14	0.8%
48	Quality Assurance / Quality Control				24.0			24	1.4%
49	Develop / Administer Change Mgmt. Plan		10.0					10	0.6%
51	Review Existing Project Information	2.0	8.0					10	0.6%
52	Bridge Condition Confirmation					20.0	20.0	40	2.4%
53	Laser Scan Survey	1.0	2.0			20.0	20.0	43	2.6%
54	Video / Photographic Doc. Of Bridge		2.0			8.0	8.0	18	1.1%
55	Map Deteriorated Concrete	2.0	6.0			14.0	14.0	36	2.2%
56	Perform Geotech. Invest.		2.0					2	0.1%
58	Devel. 3-D Bridge Model		1.0			14.0	14.0	29	1.7%
59	Edit Aerial Video / Photography		2.0			4.0	4.0	10	0.6%
60	Arch Rib Structural Analysis (90 psf)		40.0	16.0		2.0	2.0	60	3.6%
61	Section 106 Historic Coordination	4.0	2.0					6	0.4%
62	Devel. 30% Concrete Rehabilitation Sheets	5.0	38.0	9.0		86.0	86.0	224	13.4%
63	Devel. Concrete Repair Strategies - 30%								
64	Devel. 30% Concrete Demolition Sheets		6.0			16.0	16.0	38	2.3%
65	Devel. 30% Supplemental Structural Sheets	2.0	24.0	18.0		65.0	65.0	174	10.4%
66	Devel. 30% Clearing/Grubbing/Grading Shts.								
67	Devel. 30% Drainage/Erosion/Landscape Shts.								
68	Devel. 30% Civil Sheets								
69	Devel. 30% Geometry / Approach Rd./Path								
70	Devel. Front End / GP&E / Extant Sheets	3.0	25.0			53.0	54.0	135	8.1%
71	Prepare Rehabilitation Structure Survey Report								
72	Assemble & Submit 30% Docs		4.0			2.0		6	0.4%
73	Devel Estimate of Prob. Constr. Cost - 30%		4.0					4	0.2%
76	Prep. Programmatic Categorical Exclusion (PCE) & Related Fac								
77	Replacement Element Struct. Calculation - 60%	2.0	48.0	16.0		25.0	25.0	116	6.9%
78	Advance Concrete Rehabilitation Sheets - 60%	6.0	48.0	10.0		96.0	96.0	256	15.3%
79	Advance Supplemental Structural Sheets - 60%	2.0	25.0	6.0		65.0	65.0	163	9.8%
80	Advance Erosion / Drainage / Landscaping - 60%								
81	Finalize Geometry for Approach Rd./Path - 60%								
82	Advance Civil Design Sheets - 60%								
83	Devel. Special Provisions - CSI Format								
84	Devel. Draft Bridge Maintenance Sch. - 60%								
85	Devel. Green Conc. Mixes								
86	Address Cty. / Preservation 30% Comments	1.0	4.0			2.0	2.0	9	0.5%
87	Devel. Abbreviated Design Study Report								
88	Assemble & Sumit 60% Docs		4.0			2.0		6	0.4%
89	Develop Estimate of Prob. Constr. Cost - 60%								
90	Constructability Review								
93	Address Cty. / Preservation 60% Comments	1.0	2.0			1.0	1.0	5	0.3%
94	Finalize Maintenance Sch. - 50-Year Life - 90&100%								
95	Finalize Structural Design - 90&100%	2.0	20.0	3.0		40.0	40.0	105	6.3%
96	Finalize Supplemental Structural Sheets - 90&100%	1.0	7.0	2.0		22.0	22.0	54	3.2%
97	Finalize Drainage / Erosion / Landscaping 90&100%								
98	Finalize Civil Sheets - 90&100%								
99	Finalize Special Provisions (CSI Format)								
100	Assemble & Submit PS&E Docs		4.0			2.0		6	0.4%
101	Develop Estimate of Prob. Constr. Cost - 90&100%	2.0	4.0					6	0.4%
103	Address Cty. / Preservation 90% Comments	1.0	4.0			2.0	2.0	9	0.5%
104	Submit Signed and Sealed Documents and Files		4.0			2.0		6	0.4%
		39.0	409.0	80.0	24.0	563.0	556.0	1671.0	100%

Summary of Staff Hours and Direct Labor Costs

PROJECT TOTAL

Project ID: 2967-01-03

			ONE														
Classification			P-I-C		PM/Eng 1		Eng. 2		Eng. 3		Tech 1		Tech 2		Total Direct Labor		
Avg. Hourly Wage			\$80.34		\$76.99		\$70.56		\$73.65		\$44.29		\$43.78				
ONE Task Code	Task	Activity Code	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	
4	Kick Off Meeting	747	2	\$160.68	6	\$461.94									8	\$622.62	
5	County / Preser. Agency Coord. Mtg. 1	747			4	\$307.96									4	\$307.96	
6	County / Preser. Agency Coord. Mtg. 2	747			4	\$307.96									4	\$307.96	
7	County / Preser. Agency Coord. Mtg. 3	747			4	\$307.96									4	\$307.96	
8	Public Open House Meeting (PIM)	743			4	\$307.96									4	\$307.96	
9	Progress Mtgs - 4 Assumed	747			8	\$615.92									8	\$615.92	
27	30% Plan Review Meeting	747			5	\$384.95									5	\$384.95	
28	60% Plan Review Meeting	747			5	\$384.95									5	\$384.95	
29	90% Plan Review Meeting	747			5	\$384.95									5	\$384.95	
30	Project Progress Reports & Invoices	740			14	\$1,077.86									14	\$1,077.86	
48	Quality Assurance / Quality Control	740								24	\$1,767.60				24	\$1,767.60	
49	Develop / Administer Change Mgmt. Plan	740			10	\$769.90									10	\$769.90	
51	Review Existing Project Information	747	2	\$160.68	8	\$615.92									10	\$776.60	
52	Bridge Condition Confirmation	747										20	\$885.80	20	\$875.60	40	\$1,761.40
53	Laser Scan Survey	747	1	\$80.34	2	\$153.98						20	\$885.80	20	\$875.60	43	\$1,995.72
54	Video / Photographic Doc. Of Bridge	747			2	\$153.98						8	\$354.32	8	\$350.24	18	\$858.54
55	Map Deteriorated Concrete	747	2	\$160.68	6	\$461.94						14	\$620.06	14	\$612.92	36	\$1,855.60
56	Perform Geotech. Invest.	1001			2	\$153.98									2	\$153.98	
58	Devel. 3-D Bridge Model	747			1	\$76.99						14	\$620.06	14	\$612.92	29	\$1,309.97
59	Edit Aerial Video / Photography	747			2	\$153.98						4	\$177.16	4	\$175.12	10	\$506.26
60	Arch Rib Structural Analysis (90 psf)	1001			40	\$3,079.60	16	\$1,128.96				2	\$88.58	2	\$87.56	60	\$4,384.70
61	Section 106 Historic Coordination	769	4	\$321.36	2	\$153.98									6	\$475.34	
62	Devel. 30% Concrete Rehabilitation Sheets	1001	5	\$401.70	38	\$2,925.62	9	\$635.04				86	\$3,808.94	86	\$3,765.08	224	\$11,536.38
63	Devel. Concrete Repair Strategies - 30%	1001															
64	Devel. 30% Concrete Demolition Sheets	1001			6	\$461.94						16	\$708.64	16	\$700.48	38	\$1,871.06
65	Devel. 30% Supplemental Structural Sheets	1001	2	\$160.68	24	\$1,847.76	18	\$1,270.08				65	\$2,878.85	65	\$2,845.70	174	\$9,003.07
66	Devel. 30% Clearing/Grubbing/Grading Shts.	1001															
67	Devel. 30% Drainage/Erosion/Landscape Shts.	1001															

Summary of Staff Hours and Direct Labor Costs

68	Devel. 30% Civil Sheets	1001														
69	Devel. 30% Geometry / Approach Rd./Path	741														
70	Devel. Front End / GP&E / Extant Sheets	1001	3	\$241.02	25	\$1,924.75				53	\$2,347.37	54	\$2,364.12	135	\$6,877.26	
71	Prepare Rehabilitation Structure Survey Report	748														
72	Assemble & Submit 30% Docs	1001			4	\$307.96				2	\$88.58			6	\$396.54	
73	Devel Estimate of Prob. Constr. Cost - 30%	767			4	\$307.96								4	\$307.96	
76	Prep. Programmatic Categorical Exclusion (PCE) & Rel	767														
77	Replacement Element Struct. Calculation - 60%	1002	2	\$160.68	48	\$3,695.52	16	\$1,128.96		25	\$1,107.25	25	\$1,094.50	116	\$7,186.91	
78	Advance Concrete Rehabilitation Sheets - 60%	1002	6	\$482.04	48	\$3,695.52	10	\$705.60		96	\$4,251.84	96	\$4,202.88	256	\$13,337.88	
79	Advance Supplemental Structural Sheets - 60%	1002	2	\$160.68	25	\$1,924.75	6	\$423.36		65	\$2,878.85	65	\$2,845.70	163	\$8,233.34	
80	Advance Erosion / Drainage / Landscaping - 60%	1002														
81	Finalize Geometry for Approach Rd./Path - 60%	742														
82	Advance Civil Design Sheets - 60%	1002														
83	Devel. Special Provisioins - CSI Format	794														
84	Devel. Draft Bridge Maintenance Sch. - 60%	748														
85	Devel. Green Conc. Mixes	794														
86	Address Cty. / Preservation 30% Comments	746	1	\$80.34	4	\$307.96				2	\$88.58	2	\$87.56	9	\$564.44	
87	Devel. Abbreviated Design Study Report	748														
88	Assemble & Sumit 60% Docs	794			4	\$307.96				2	\$88.58			6	\$396.54	
89	Develop Estimate of Prob. Constr. Cost - 60%	794														
90	Constructability Review	740														
93	Address Cty. / Preservation 60% Comments	746	1	\$80.34	2	\$153.98				1	\$44.29	1	\$43.78	5	\$322.39	
94	Finalize Maintenance Sch. - 50-Year Life - 90&100%	748														
95	Finalize Structural Design - 90&100%	1002	2	\$160.68	20	\$1,539.80	3	\$211.68		40	\$1,771.60	40	\$1,751.20	105	\$5,434.96	
96	Finalize Supplemental Structural Sheets - 90&100%	794	1	\$80.34	7	\$538.93	2	\$141.12		22	\$974.38	22	\$963.16	54	\$2,697.93	
97	Finalize Drainage / Erosion / Landscaping 90&100%	742														
98	Finalize Civil Sheets - 90&100%	742														
99	Finalize Special Provisions (CSI Format)	794														
100	Assemble & Submit PS&E Docs	794			4	\$307.96				2	\$88.58			6	\$396.54	
101	Develop Estimate of Prob. Constr. Cost - 90&100%	794	2	\$160.68	4	\$307.96								6	\$468.64	
103	Address Cty. / Preservation 90% Comments	740	1	\$80.34	4	\$307.96				2	\$88.58	2	\$87.56	9	\$564.44	
104	Submit Signed and Sealed Documents and Files	794			4	\$307.96				2	\$88.58			6	\$396.54	
TOTAL:			39	\$3,133.26	409	\$31,488.91	80	\$5,644.80	24	\$1,767.60	563	\$24,935.27	556	\$24,341.68	1,671	\$91,311.52

Consultant Direct Labor Rates

Project ID: 2967-01-03/73

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Employee Name	Classification	Current Rate	% Pay Increase	New Pay Rate	Date of Increase	% Work at Current Rate	% Work at Increased Rate	Weighted Average Hourly Rate
Steve Olson	P-I-C	\$78.00	3.00%	\$80.34	7/1/2019	0%	100%	\$80.34
Rich Johnson	PM/Eng 1	\$74.75	3.00%	\$76.99	7/1/2019	0%	100%	\$76.99
Kevin Nelson	Eng. 2	\$68.50	3.00%	\$70.56	7/1/2019	0%	100%	\$70.56
Arlen Ottman	Eng. 3	\$71.50	3.00%	\$73.65	7/1/2019	0%	100%	\$73.65
Dan Crawford	Tech 1	\$43.00	3.00%	\$44.29	7/1/2019	0%	100%	\$44.29
Dan Streeter	Tech 2	\$42.50	3.00%	\$43.78	7/1/2019	0%	100%	\$43.78

Contract Completion Date: 12/31/2020

Project ID: 2967-01-03

One Direct Costs by Item				
Item	Unit Amount	Unit Type	Rate	Total Expenses
Airfare	-	Round Trip	\$495.00	\$0.00
Mileage - Employee Owned Vehicles	1,875.6	Miles	\$0.58	\$1,087.85
Parking		Day	\$35.00	\$0.00
Parking	-	Hour	\$11.00	\$0.00
Per Diem	10	Day	\$120.00	\$1,200.00
Overnight Delivery	-	Each	\$55.00	\$0.00
Amtrak	-	Round Trip	\$135.00	\$0.00
Manlift	-	Week	\$1,300.00	\$0.00
TOTAL				\$2,287.85

Consultant Contract Total Fee Computation

Olson Nesvold Engineers, P.S.C.

Project ID		Total for Contract
Number of Staff Hours	1671	1671
Total Direct Labor	\$91,311.52	\$91,311.52
Total Indirect Costs	\$133,260.04	\$133,260.04
Fixed Fee	\$16,550.20	\$16,550.20
Direct Expenses	\$2,287.85	\$2,287.85
Subtotal	\$243,409.61	\$243,409.61
Mead & Hunt	\$105,374.09	\$105,374.09
WJE	\$23,152.19	\$23,152.19
Malas	\$13,325.17	\$13,325.17
Himalayan	\$14,426.82	\$14,426.82
Subcontract Subtotal	\$156,278.27	\$156,278.27
TOTAL COST	\$399,687.88	\$399,687.88

Indir. \$ (%): 145.94%

Fixed Fee (%): 7.25%



10700 West Research Drive, Suite 155
Wauwatosa, Wisconsin 53226
262-790-0232
meadhunt.com

May 29, 2019

Steve Olson, PE
Olson & Nesvold Engineers, PSC
8000 West 78th Street, Suite 410
Edina, MN 55439

Subject: Wisconsin DOT ID 2967-01-03
Milwaukee County Project Number P484-15619
Lake Park Arch Bridge Over Ravine Drive
Milwaukee County Parks-Local Public Agency
Milwaukee County, Wisconsin

Dear Mr. Olson:

Mead & Hunt, Inc. (Mead & Hunt) is pleased to submit this proposal to provide professional design engineering and related services for the above-referenced project.

Project Understanding

Milwaukee County (Client) proposes to rehabilitate the subject bridge. The Client issued a Request for Proposals (RFP) for the Project with a date of February 12, 2019. Mead & Hunt will be a subconsultant to ONE for this Project as stated in the Proposal that was submitted to Milwaukee County for this project with a date of March 12, 2019. Our proposal herein is based on the selection of the Olson & Nesvold Engineers, PSC (ONE) team by Milwaukee County in an email dated April 1, 2019 to provide professional design engineering and related services for the Lake Park Arch Bridge rehabilitation project.

The Lake Park Arch Bridge over Ravine Drive is over 110 years old. It is owned and maintained by Client. It is constructed of concrete reinforced with a mixture of proprietary steel reinforcement and round steel bars. The bridge has been repaired and/or patched on more than one occasion over its lifetime. Period photographs lead us to understand the ornamental baluster parapet has been removed and replaced, and the metal cross bracing between the bottom flanges of the arch ribs has been removed without replacement.

The bridge is a contributing structure to the Lake Park Historic District listed on the National Register of Historic Places (NRHP) and included in the locally designated North Point North Historic District. The bridge is also a contributing

Steve Olson, PE

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structure to the National Register-eligible Lake Michigan Parkway (north). The bridge was designed by noted architects George B. Ferry and Alfred C. Clas between 1905 and 1906.

Milwaukee County is compelled to address the distressed condition of this historic structure in a manner consistent with the Secretary of the Interior's Standards for Rehabilitation and the City of Milwaukee Historic Preservation Ordinance. To the extent possible, the design will incorporate sustainable or "green" components into the project and/or project planning. Additionally, the repair/rehabilitation design is to extend the service life of the bridge 50 years beyond completion of the repair/rehabilitation efforts.

The Client has determined the following general conditions of the bridge and proposed rehabilitation:

- The bridge deck and parapet wall have deteriorated to the point that replacement is necessary.
- Drainage and erosion have resulted in the undermining of some portions of the vaulted abutment walls, causing distress, out of plane sloping and translation.
- The existing condition of the vaulted abutment walls needs to be addressed.
- The thrust blocks, arch ribs, spandrel beams, struts and diaphragm will need to be repaired and/or reinforced.

The project is funded with \$2 million in Federal Transportation Alternative Program (TAP) grant funds administered by Wisconsin Department of Transportation (WisDOT) and \$500,000 in Milwaukee County funds. Because the TAP grant is administered by WisDOT, it requires conformance with federal and state laws and regulations along with certification requirements to be met by the County and its consultant. The project will be developed in accordance with the WisDOT's Sponsor's Guide to Non-Traditional Transportation Project Implementation. The Contract for this Project will be the WisDOT Three-Party Design Engineering Services Contract with WisDOT, Milwaukee County and ONE. Plans, specifications and estimates will be prepared in accordance with WisDOT policies and criteria.

It is our understanding that Milwaukee County intends to have ONE under contract with notice-to-proceed with the services by July 1, 2019.

Scope of Services

After receipt of authorization to proceed, Mead & Hunt shall perform the following services and document the services per the assigned WisDOT Activity Codes:

Reports

- Rehabilitation Structure Survey Report, WisDOT Activity Code 748: A Rehabilitation Structure Survey Report will be prepared in accordance with the WisDOT Facilities Design Manual (Manual) and submitted to Client and the WisDOT Bureau of Structures (BOS) with the preliminary plans for review.
- Abbreviated Design Study Report, WisDOT Activity Code 748: An abbreviated Design Study Report will be prepared in accordance with the Manual and submitted to Client and WisDOT for review.

Steve Olson, PE

May 29, 2019

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Environmental

- Environmental Document, WisDOT Activity Code 767: A Programmatic Categorical Exclusion (PCE) environmental document will be prepared for the project as specified in the Sponsor's Guide and Chapter TRANS 400, Wisconsin Administrative Code.

In the event of a conflict between the Sponsor's Guide and TRANS 400, Wisconsin Administrative Code, the administrative rule supersedes.

Mead & Hunt will prepare the following Factor Sheets for supporting documentation for the Programmatic Categorical Exclusion:

- B-5, Historic resources (for each of two resources: NRHP-Listed Lake Park and NRHP-eligible Parkway)
- B-8, Section 4(f) and 6(f) or other unique areas (for each of three resources, NRHP listed Lake Park as a park and historic resource and NRHP-eligible Parkway)
- B-9, Aesthetics
- C-7, Threatened and endangered species
- D-6, Erosion Control

Mead & Hunt will coordinate with Milwaukee County, WisDOT and FHWA to determine Section 4(f) resources and the appropriate Section 4(f) documentation for the project. Mead & Hunt will coordinate with Milwaukee County to determine effects of the project on the activities, features, or attributes of each Section 4(f) resource.

A *De minimis* use or Temporary Occupancy exception is expected for the NRHP-eligible Lake Park Arch Bridge (P-40-576) as a historic resource.

A Temporary Occupancy exception is expected for Lake Park as both a NRHP-Listed historic resource as well as a recreational use/park. Lake Park is owned and maintained by Milwaukee County. A Temporary Occupancy exception is also expected for the NRHP-eligible Lake Michigan Parkway (north). Determinations of Temporary Occupancy exception will be evaluated in the PCE and are not expected to require separate Section 4(f) documentation.

Preparing an environmental document beyond the level of documentation required for a PCE and the listed Factor Sheets will be considered "Extra Services".

- Section 106 Documentation and Coordination, WisDOT Activity Code 769: Mead & Hunt previously prepared a memorandum entitled "Regulatory Compliance and Next Steps – Lake Park Bridge over Ravine Drive". That memorandum outlines the regulations that the team will consider for this PROJECT. Mead & Hunt's approach for historical coordination will follow the recommendations contained in that memorandum for rehabilitation of the bridge. The Area of Potential Effect is assumed to be limited to the bridge and immediate surrounding park landscape which has previously been determined to be historic (see Project Understanding above). As a result, it is assumed that a reconnaissance survey and/or Determinations of Eligibility are not needed. If determined to be required, will be considered as "Extra Services".

Mead & Hunt will prepare documentation for the determination of effects (No Adverse Effects is assumed in this CONTRACT). Documentation for Consultation in accordance with the MANUAL and in consultation with the FHWA, SHPO, the DEPARTMENT, the MUNICIPALITY and the City of Milwaukee is not required. If determined to be required, will be considered as "Extra Services".

Mead & Hunt will provide agency coordination with SHPO, the WisDOT and the Milwaukee Historic Preservation Commission (HPC) to comply with Section 106 and the City of Milwaukee Historic Preservation Ordinance to obtain City of Milwaukee HPC Certificate of Appropriateness and SHPO concurrence on No Adverse Effect. Coordination will include participation in one Public Information Meeting, up to three meetings with agencies as part of monthly project coordination meetings via phone or webinar and submittal of bridge rehabilitation plans and Determination of No Adverse Effect. Historical coordination efforts with agencies assumes that the rehabilitation design will be able to meet Secretary of the Interior's Standards and agency coordination will be limited to presentation of one set of rehabilitation plans that are accepted by each agency without revisions or need for additional consultation. It is also assumed that the rehabilitation of the substructure and superstructure will be in-kind per Secretary of the Interior's Standards and that a replacement railing design will also be able to meet Secretary of the Interior's Standards. If the railing design cannot meet Secretary of the Interior's Standards, this will be considered as "Extra Services."

A Memorandum of Agreement in accordance with the MANUAL in consultation with the FHWA, SHPO, and the DEPARTMENT's BOE is not required. If determined to be required, will be considered as "Extra Services".

- Agency Coordination, WisDOT Activity Code 746: Coordination will occur with the WDNR to seek their input and address their concerns in accordance with the WDNR/WisDOT Cooperative Agreement.

Other necessary agency coordination is detailed in the Section 106 documentation task above.

Public Involvement

- Public Involvement Meeting, WisDOT Activity Code 743: Attend one Public Involvement Meeting. Mead & Hunt will provide necessary exhibits related to Mead & Hunt tasks included in this proposal.

Meetings

- Project Meetings, WisDOT Activity Code 747: Participate in Seven (7) Project Coordination Meetings that include an Operational Planning Meeting (Kickoff Meeting), as well as, 30%, 60%, and 90% Design Review Meetings. Participation in these meetings will be by phone or webinar.

Design and Plan Preparation

- Project Site Visit, WisDOT Activity Code 747: One visit to the project site will be conducted to verify current conditions.
- Project Overview, Bridge Approach, Erosion Control, and Embankment Landscaping Design and Plan Preparation, WisDOT Activity Code 741 and 742: This task will include design, plan preparation, and calculation of quantities and

estimate of construction cost. The Project Overview will consist of a schematic drawing showing features within the project limits. The plans prepared for the approach roadway/path will extend no further than 100 feet from each end of the bridge. These plans will include typical sections, plan and profile sheets, cross sections, standard construction details, and appropriate general notes. The approach roadway/path is expected to consist of asphalt over a gravel base. The Erosion Control plans will be prepared in accordance with the Manual for areas disturbed by construction. The Embankment Design plans will consist of clearing and grubbing plans for the slope embankments under the bridge; drainage plans for the embankments; permanent erosion control plans; turf establishment plans; and landscaping plans and details. This task will be conducted for 30%, 60%, 90%, and final PS&E levels of completion. No plans will be prepared for Ravine Drive under the bridge.

PS&E Documents

- Assemble PS&E Documents, WisDOT Activity Code 794: PS&E documents consisting of Standard Detail Drawing Spreadsheet, Plan Letter, Environmental Commitments, Special Provisions, Contract Time for Completion, Governor Approval Form, Proposal Cover, Right-of-Way Certification Form, Utility Status Report, Construction Cost Estimate, Estimate Documentation Report, and Project Data as required by the Manual will be assembled for the 90% and Final PS&E levels of completion. ONE will provide necessary information from their design tasks to complete all PS&E documents.

QA/QC

- Quality Assurance/Quality Control, WisDOT Activity Code 740: Appropriate QA/QC will be conducted prior to submittals to the client for review.

Mead & Hunt will prepare monthly invoices and monthly progress reports for the services provided and submit such invoices and reports to ONE.

Responsibilities of ONE

Our Scope of Services and Compensation are based on ONE performing or providing the following:

- A designated representative with complete authority to transmit instructions and information, receive information, interpret policy, and define decisions.
- Access to the project site.
- Available data, drawings, and information related to the project. This includes information and documentation from Milwaukee County related to previous correspondence and coordination with agencies dealing with historical aspects of the Project - SHPO, the WisDOT and the Milwaukee Historic Preservation Commission (HPC).
- Review of preliminary and final plans/specs/reports.
- Protection of Mead & Hunt-supplied digital information or data, if any, from contamination, misuse, or changes.
- Submit Mead & Hunt's monthly invoices and monthly progress reports to Client.
- Promptly pay Mead & Hunt after receipt of payment from Client.
- AutoCAD field survey base plans as assembled and provided by Milwaukee County.

Steve Olson, PE

May 29, 2019

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- Files and documents as necessary for the various milestone submittals listed elsewhere in this Proposal.

Work Not Included in the Scope of Services

The following items are excluded from this Agreement and will be provided by Mead & Hunt, Inc. as an Additional Service only as authorized by ONE:

- Services that will be done by ONE or services that have been delegated to other Project team members by ONE.
- Assistance with bidding services following submittal of final PS&E.
- Services during the construction phase of the project.

Project Schedule

Following are the key milestone dates for this Project assuming ONE has received notice to proceed with the services by July 1, 2019:

<u>Task/Deliverable</u>	<u>Date</u>
Kickoff Meeting with Client	7/12/2019
Site Visit for Bridge Assessment	8/12/2019
Project Coordination & Review Meetings	Monthly
Open House Public Information Meeting	12/6/2019 (Approximate; might be in early 2020)
30% Completion Stage Submittal	1/29/2020
Rehabilitation Structure Survey Report Submittal	1/29/2019
Environmental Document Submittal	2/5/2020
Abbreviated Design Study Report Submittal	3/19/2020
60% Completion Stage Submittal	5/19/2020
90% Completion Stage Submittal	10/20/2020
Final PS&E Submittal	12/22/2020
Project Completion	12/31/2020

Compensation

The services described under the Scope of Services will be performed on a lump-sum basis. ONE will pay Mead & Hunt \$105,374.09 as professional services fees for the services performed under this Agreement. Documentation for our engineering fee is attached hereto and made part of this Agreement and labeled as Exhibit B.

Authorization

The Scope of Services and Compensation stated in this proposal are valid for a period of thirty (30) days from date of submission. If authorization to proceed is not received during this period, this proposal may be withdrawn or modified by Mead & Hunt.

Steve Olson, PE

May 29, 2019

Page 7

Signatures of authorized representatives of ONE and Mead & Hunt shall convert this proposal to an Agreement between the two parties, and receipt of one signed copy shall be considered authorization to proceed with the work described in the Scope of Services. All services shall be performed in accordance with the *General Terms and Conditions for Engineering, Architectural, or Consulting Services* which is attached hereto and made part of this Agreement and labeled as Exhibit A.

We appreciate the opportunity to submit this proposal to ONE and look forward to working with the ONE team on this unique project.

Respectfully submitted,

MEAD & HUNT, INC.



Darrell J. Berry, PE
Senior Project Manager

Attachments

Accepted by: ONE

Approved by: MEAD & HUNT, INC.

By: _____

By: Russell A. Chesmore

Name: _____

Name: Russell A. Chesmore, PE

Title: _____

Title: Vice President

*The above person is authorized to sign for Client
and bind the Client to the terms hereof.*

Date: _____

Date May 29, 2019

Exhibit B. Fee Computations

No.	Sheet Title	Primary Resp.
1	Title Sheet	ONE
2	General Plan and Elevation - Bridge & Approaches	ONE
3	List of Sheets - General Notes	ONE
4	Schedule of Quantities	ONE
5	Deck and Parapet Wall Removal Details	ONE
6	South Interior Structure - Plan View	ONE
7	South Interior Structure - West Wall Elevations (5 Walls)	ONE
8	South Interior Structure - East Wall Elevations (5 Walls)	ONE
9	South Interior Structure - South and North Wall Elevations (2 Walls)	ONE
10	North Interior Structure - Plan View	ONE
11	North Interior Structure - West Wall Elevations (5 Walls)	ONE
12	North Interior Structure - East Wall Elevations (5 Walls)	ONE
13	North Interior Structure - North and North Wall Elevations (2 Walls)	ONE
14	Helical Piles / Foundation Details	ONE
15	Interior Structure Details / Schedule of Reinforcement / Schedule of Quantities	ONE
16	Interior Structure Construction Sequence / Temporary Shoring	ONE
17	Interior Structure Construction Sequence / Temporary Shoring	ONE
18	Removal Limits & Proposed Repair Loca. - South Approach Plan View	ONE
19	Removal Limits & Proposed Repair Loca. - South Wing Wall & Abutment - Westerly Faces (1 of 2)	ONE
20	Removal Limits & Proposed Repair Loca. - South Wing Wall & Abutment - Westerly Faces (2 of 2)	ONE
21	Removal Limits & Proposed Repair Loca. - North Wing Wall & Abutment - Westerly Faces (1 of 2)	ONE
22	Removal Limits & Proposed Repair Loca. - North Wing Wall & Abutment - Westerly Faces (2 of 2)	ONE
23	Removal Limits & Proposed Repair Loca. - South Thrust Block & South Abut. Wall - North Face	ONE
24	Removal Limits & Proposed Repair Loca. - South Wing Wall / Abut. / Thrust Block Details	ONE
25	Removal Limits & Proposed Repair Loca. - South Abutment Wall Expansion Joints	ONE
26	Removal Limits & Proposed Repair Loca. - West Arch Rib and Spandrel Walls - West Face (1 of 2)	ONE
27	Removal Limits & Proposed Repair Loca. - West Arch Rib and Spandrel Walls - West Face (2 of 2)	ONE
28	Removal Limits & Proposed Repair Loca. - West Arch Rib and Spandrel Walls - East Face (1 of 2)	ONE
29	Removal Limits & Proposed Repair Loca. - West Arch Rib and Spandrel Walls - East Face (2 of 2)	ONE
30	Removal Limits & Proposed Repair Loca. - West Arch Rib - Intrados Face & Opening Interior Faces	ONE
31	Removal Limits & Proposed Repair Loca. - East Arch Rib - Intrados Face & Opening Interior Faces	ONE
32	Removal Limits & Proposed Repair Loca. - East Arch Rib and Spandrel Walls - East Face (1 of 2)	ONE
33	Removal Limits & Proposed Repair Loca. - East Arch Rib and Spandrel Walls - East Face (2 of 2)	ONE
34	Removal Limits & Proposed Repair Loca. - East Arch Rib and Spandrel Walls - West Face (1 of 2)	ONE
35	Removal Limits & Proposed Repair Loca. - East Arch Rib and Spandrel Walls - West Face (2 of 2)	ONE
36	Removal Limits & Proposed Repair Loca. - North Thrust Block & North Abut. Wall - South Face	ONE
37	Removal Limits & Proposed Repair Loca. - South Wing Wall / Abut. / Thrust Block Details	ONE
38	Removal Limits & Proposed Repair Loca. - North Abutment Wall Expansion Joints	ONE
39	Removal Limits & Proposed Repair Loca. - South Wing Wall & Abutment - Easterly Faces (1 of 2)	ONE
40	Removal Limits & Proposed Repair Loca. - South Wing Wall & Abutment - Easterly Faces (2 of 2)	ONE
41	Removal Limits & Proposed Repair Loca. - North Wing Wall & Abutment - Easterly Faces (1 of 2)	ONE
42	Removal Limits & Proposed Repair Loca. - North Wing Wall & Abutment - Easterly Faces (2 of 2)	ONE
43	Removal Limits & Proposed Repair Loca. - North Approach Plan View	ONE
44	Removal Limits & Proposed Repair Loca. - Diaphragm 1 - Both Faces & Bottom	ONE
45	Removal Limits & Proposed Repair Loca. - Diaphragm 2 - Both Faces & Bottom	ONE
46	Removal Limits & Proposed Repair Loca. - Diaphragm 3 - Both Faces & Bottom	ONE
47	Removal Limits & Proposed Repair Loca. - Diaphragm 4 - Both Faces & Bottom	ONE
48	Removal Limits & Proposed Repair Loca. - Diaphragm 5 - Both Faces & Bottom	ONE
49	Removal Limits & Proposed Repair Loca. - Strut 1.5 & 2.5- Four Sides	ONE
50	Removal Limits & Proposed Repair Loca. - Strut 3.5 & 4.5- Four Sides	ONE
51	Concrete Repair Details - 1 of 7	ONE
52	Concrete Repair Details - 2 of 7	ONE
53	Concrete Repair Details - 3 of 7	ONE
54	Concrete Repair Details - 4 of 7	ONE
55	Concrete Repair Details - 5 of 7	ONE
56	Concrete Repair Details - 6 of 7	ONE
57	Concrete Repair Details - 7 of 7	ONE
58	Deck Reconstruction - Plan and Section	ONE
59	Deck Reconstruction - Details (1 of 2)	ONE
60	Deck Reconstruction - Details (2 of 2)	ONE
61	Railing Reconstruction - Plan and Elevation	ONE
62	Railing Reconstruction - Details 1 of 2	ONE
63	Railing Reconstruction - Details 2 of 2	ONE
64	Deck & Railing Bill of Reinforcement (1 of 2)	ONE
65	Deck & Railing Bill of Reinforcement (2 of 2)	ONE
66	Approach Rehabilitation	Mead & Hunt
67	Approach Rehabilitation	Mead & Hunt
68	Clearing / Grubbing and Grading	Mead & Hunt
69	Drainage 1 of 2	Mead & Hunt
70	Drainage 2 of 2	Mead & Hunt
71	Permanent Erosion Control Plan	Mead & Hunt
72	Erosion Control Details	Mead & Hunt
73	Erosion and Sedimentation Control Notes	Mead & Hunt
74	Turf Establishment and Landscaping	Mead & Hunt
75	Turf Establishment and Landscaping Details	Mead & Hunt
76	Rehabilitation Sequence Concept	ONE
77	Arch Rib Temporary Support Concept	ONE
78	Existing Topo	Mead & Hunt
79	Extant Drawings for Reference Only - 1 of 4	ONE
80	Extant Drawings for Reference Only - 2 of 4	ONE
81	Extant Drawings for Reference Only - 3 of 4	ONE
82	Extant Drawings for Reference Only - 4 of 4	ONE

ONE Task Code	Task	Mead and Hunt								
		Proj. Mgr.	Sr. Engr.	Engr.	Tech II	Tech I	Clerical			
3	Obtain Data / Information									
5	Operational Planning/Kick Off Meeting	4.00								
6	Condition Assessment Findings Mtg.									
7	County / Preser. Agency Coord. Mtg. 1	2.00								
8	County / Preser. Agency Coord. Mtg. 2	2.00								
9	County / Preser. Agency Coord. Mtg. 3	2.00								
10	County / Preser. Agency Coord. Mtg. 4									
11	Public Open House Meeting (PIM)	16.00				6.00	4.00			
12	Monthly Progress Meetings - 4 assumed	8.00								
30	30% Plan Review Meeting	4.00								
31	60% Plan Review Meeting	4.00								
32	90% Plan Review Meeting	4.00								
33	Create Project Schedule									
34	Monthly (18) Project Progress Reports & Invoices	9.00					9.00			
52	Quality Assurance / Quality Control		16.00							
53	Develop / Administer Change Mgmt. Plan									
55	Review Existing Project Information	2.00	2.00	2.00						
56	Develop Condition Assessment Drawings									
57	Bridge Condition Confirmation Site Visit	8.00	8.00							
58	Laser Scan Survey									
59	Video / Photographic Doc. Of Bridge									
60	Topographic Survey Confirmation									
61	Map Deteriorated Concrete									
64	Section 106 Historical Coordination Items	50.00				24.00	6.00			
63	Phase 1 Haz. Mat Assessment									
64	Perform Geotech. Invest., If Needed									
66	Devel. 3-D Bridge Model									
67	Edit Aerial Video / Photography									
68	Arch Rib Structural Analysis (90 psf)									
69	Devel. 30% Concrete Repair Sheets									
70	Devel. Concrete Repair Strategies - 30%									
71	Devel. 30% Concrete Demolition Sheets									
72	Devel. 30% Railing Sheet, includes Design									
73	Devel. 30% Element Replacement Sheets									
74	Devel. 30% Clearing/Grubbing/Grading Shts.	1.00	8.00	12.00	16.00					
75	Devel. 30% Drainage/Erosion/Landscape Shts.	1.00	8.00	16.00	16.00					
76	Devel. 30% Civil Sheets	2.00	8.00	16.00	8.00					
77	Devel. 30% Geometry for Approach Road/Path		2.00	2.00						
78	Devel. Front End & GPE Sheets									
79	Prepare Rehabilitation Structure Survey Report	1.00	12.00				2.00			
80	Assemble & Submit 30% Docs		2.00							
81	Develop Estimate of Prob. Constr. Cost - 30%		1.00	4.00						
82	Devel. Visualization									
85	Prepare Programmatic Categorical Exclusion (PCE) & Related Factor Sheets		12.00	42.00		6.00				
86	Replacement Element Struct. Calculation - 60%									
87	Advance Concrete Rehabilitation Sheets - 60%									
88	Advance Conc. Replacement Sheets - 60%									
89	Advance Erosion / Drainage / Landscaping - 60%		16.00		32.00	16.00				
90	Finalize Geometry for Approach Road/Path- 60%		1.00	1.00						
91	Advance Civil Design Sheets - 60%		8.00	12.00	8.00	16.00				
92	Devel. Tech. Spec. Roster - (WisDOT Format)		4.00							
93	Devel. Draft Bridge Maintenance Sch. - 60%		8.00							
94	Devel. Green Conc. Mixes									
95	Address Cty. / Preservation 30% Comments		6.00	6.00						
96	Devel. Abbreviated Design Study Report	1.00	12.00			4.00	2.00			
97	Assemble & Sumit 60% Docs		2.00							
98	Develop Estimate of Prob. Constr. Cost - 60%		1.00	4.00						
99	Constructability Review		4.00							
102	Address Cty. / Preservation 60% Comments		6.00	6.00						
103	Finalize Maintenance Sch. - 50-Year Life - 90&100%	1.00	1.00							
104	Finalize Structural Design - 90&100%									
105	Finalize Structural Sheets - 90&100%									
106	Finalize Drainage / Erosion / Landscaping 90&100%		8.00	12.00	20.00	16.00				
107	Finalize Civil Sheets - 90&100%		4.00	8.00	8.00	16.00				
108	Finalize Tech. Specifications (WisDOT Format)	1.00	8.00							
109	Assemble & Submit 90% PS&E Docs		6.00				24.00			
110	Develop Estimate of Prob. Constr. Cost - 90%		1.00	4.00						
111	Advertise 90% Plans for Industry Review									
113	Address Cty. / Preservation 90% Comments	1.00	6.00	6.00						
114	Address Industry Comments and Questions		2.00							
115	Final Estimate of Prob. Constr. Cost		2.00							
116	Submit Signed and Sealed PS&E Documents and Files	2.00	8.00							
		126.00	193.00	153.00	108.00	104.00	47.00			
		Proj. Mgr.	Sr. Engr.	Engr.	Tech II	Tech I	Clerical	0	0	0
Mead and Hunt										

Summary of Staff Hours and Direct Labor Costs

PROJECT TOTAL

Project ID: 2967-01-03

			Mead and Hunt													
Classification			Proj. Mgr.		Sr. Engr.		Engr.		Tech II		Tech I		Clerical			
Avg. Hourly Wage			\$67.3400		\$57.3400		\$40.6100		\$38.6800		\$29.6600		\$26.9300		Total Direct Labor	
ONE Task Code	Task	Activity Code	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars
3	Obtain Data / Information	740														
5	Operational Planning/Kick Off Meeting	747	4	\$269.36											4	\$269.36
6	Condition Assessment Findings Mtg.	747														
7	County / Preser. Agency Coord. Mtg. 1	747	2	\$134.68											2	\$134.68
8	County / Preser. Agency Coord. Mtg. 2	747	2	\$134.68											2	\$134.68
9	County / Preser. Agency Coord. Mtg. 3	747	2	\$134.68											2	\$134.68
10	County / Preser. Agency Coord. Mtg. 4	747														
11	Public Open House Meeting (PIM)	743	16	\$1,077.44							6	\$177.96	4	\$107.72	26	\$1,363.12
12	Monthly Progress Meetings - 4 assumed	747	8	\$538.72											8	\$538.72
30	30% Plan Review Meeting	747	4	\$269.36											4	\$269.36
31	60% Plan Review Meeting	747	4	\$269.36											4	\$269.36
32	90% Plan Review Meeting	747	4	\$269.36											4	\$269.36
33	Create Project Schedule	740														
34	Monthly (18) Project Progress Reports & Invoices	740	9	\$606.06									9	\$242.37	18	\$848.43
52	Quality Assurance / Quality Control	740			16	\$917.44									16	\$917.44
53	Develop / Administer Change Mgmt. Plan	740														
55	Review Existing Project Information	747	2	\$134.68	2	\$114.68	2	\$81.22							6	\$330.58
56	Develop Condition Assessment Drawings	747														
57	Bridge Condition Confirmation Site Visit	747	8	\$538.72	8	\$458.72									16	\$997.44
58	Laser Scan Survey	747														
59	Video / Photographic Doc. Of Bridge	747														
60	Topographic Survey Confirmation	747														
61	Map Deteriorated Concrete	747														
64	Section 106 Historical Coordination Items	769	50	\$3,367.00							24	\$711.84	6	\$161.58	80	\$4,240.42
63	Phase 1 Haz. Mat Assessment	765														
64	Perform Geotech. Invest., If Needed	1001														
66	Devel. 3-D Bridge Model	747														
67	Edit Aerial Video / Photography	747														
68	Arch Rib Structural Analysis (90 psf)	1001														
69	Devel. 30% Concrete Repair Sheets	1001														
70	Devel. Concrete Repair Strategies - 30%	1001														
71	Devel. 30% Concrete Demolition Sheets	1001														
72	Devel. 30% Railing Sheet, includes Design	1001														
73	Devel. 30% Element Replacement Sheets	1001														

Summary of Staff Hours and Direct Labor Costs

74	Devel. 30% Clearing/Grubbing/Grading Shts.	1001	1	\$67.34	8	\$458.72	12	\$487.32	16	\$618.88				37	\$1,632.26	
75	Devel. 30% Drainage/Erosion/Landscape Shts.	1001	1	\$67.34	8	\$458.72	16	\$649.76	16	\$618.88				41	\$1,794.70	
76	Devel. 30% Civil Sheets	1001	2	\$134.68	8	\$458.72	16	\$649.76	8	\$309.44				34	\$1,552.60	
77	Devel. 30% Geometry for Approach Road/Path	741			2	\$114.68	2	\$81.22						4	\$195.90	
78	Devel. Front End & GPE Sheets	1001														
79	Prepare Rehabilitation Structure Survey Report	748	1	\$67.34	12	\$688.08					2	\$53.86		15	\$809.28	
80	Assemble & Submit 30% Docs	1001			2	\$114.68								2	\$114.68	
81	Develop Estimate of Prob. Constr. Cost - 30%	794			1	\$57.34	4	\$162.44						5	\$219.78	
82	Devel. Visualization	743														
85	Prepare Programmatic Categorical Exclusion (PCE) & R	767			12	\$688.08	42	\$1,705.62			6	\$177.96		60	\$2,571.66	
86	Replacement Element Struct. Calculation - 60%	1002														
87	Advance Concrete Rehabilitation Sheets - 60%	1002														
88	Advance Conc. Replacement Sheets - 60%	1002														
89	Advance Erosion / Drainage / Landscaping - 60%	1002			16	\$917.44			32	\$1,237.76	16	\$474.56		64	\$2,629.76	
90	Finalize Geometry for Approach Road/Path- 60%	742			1	\$57.34	1	\$40.61						2	\$97.95	
91	Advance Civil Design Sheets - 60%	1002			8	\$458.72	12	\$487.32	8	\$309.44	16	\$474.56		44	\$1,730.04	
92	Devel. Tech. Spec. Roster - (WisDOT Format)	794			4	\$229.36								4	\$229.36	
93	Devel. Draft Bridge Maintenance Sch. - 60%	748			8	\$458.72								8	\$458.72	
94	Devel. Green Conc. Mixes	794														
95	Address Cty. / Preservation 30% Comments	746			6	\$344.04	6	\$243.66						12	\$587.70	
96	Devel. Abbreviated Design Study Report	748	1	\$67.34	12	\$688.08					4	\$118.64	2	\$53.86	19	\$927.92
97	Assemble & Sumit 60% Docs	794			2	\$114.68								2	\$114.68	
98	Develop Estimate of Prob. Constr. Cost - 60%	794			1	\$57.34	4	\$162.44						5	\$219.78	
99	Constructability Review	740			4	\$229.36								4	\$229.36	
102	Address Cty. / Preservation 60% Comments	746			6	\$344.04	6	\$243.66						12	\$587.70	
103	Finalize Maintenance Sch. - 50-Year Life - 90&100%	748	1	\$67.34	1	\$57.34								2	\$124.68	
104	Finalize Structural Design - 90&100%	1002														
105	Finalize Structural Sheets - 90&100%	794														
106	Finalize Drainage / Erosion / Landscaping 90&100%	742			8	\$458.72	12	\$487.32	20	\$773.60	16	\$474.56		56	\$2,194.20	
107	Finalize Civil Sheets - 90&100%	742			4	\$229.36	8	\$324.88	8	\$309.44	16	\$474.56		36	\$1,338.24	
108	Finalize Tech. Specifications (WisDOT Format)	794	1	\$67.34	8	\$458.72								9	\$526.06	
109	Assemble & Submit 90% PS&E Docs	794			6	\$344.04						24	\$646.32	30	\$990.36	
110	Develop Estimate of Prob. Constr. Cost - 90%	794			1	\$57.34	4	\$162.44						5	\$219.78	
111	Advertise 90% Plans for Industry Review	740														
113	Address Cty. / Preservation 90% Comments	740	1	\$67.34	6	\$344.04	6	\$243.66						13	\$655.04	
114	Address Industry Comments and Questions	740			2	\$114.68								2	\$114.68	
115	Final Estimate of Prob. Constr. Cost	794			2	\$114.68								2	\$114.68	
116	Submit Signed and Sealed PS&E Documents and Files	794	2	\$134.68	8	\$458.72								10	\$593.40	
TOTAL:			126	\$8,484.84	193	\$11,066.62	153	\$6,213.33	108	\$4,177.44	104	\$3,084.64	47	\$1,265.71	731	\$34,292.58

Consultant Direct Labor Rates

Project ID: 2967-01-03

Mead & Hunt

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Employee Name	Classification	Current Rate	% Pay Increase	New Pay Rate	Date of Increase	% Work at Current Rate	% Work at Increased Rate	Weighted Average Hourly Rate
Darrell Berry	Proj. Mgr.	\$66.01	3.10%	\$68.06	1/1/2020	35%	65%	\$67.3400
Average for Class.	Sr. Engr.	\$56.21	3.10%	\$57.95	1/1/2020	35%	65%	\$57.3400
Average for Class.	Engr.	\$39.81	3.10%	\$41.04	1/1/2020	35%	65%	\$40.6100
Average for Class.	Tech II	\$37.92	3.10%	\$39.10	1/1/2020	35%	65%	\$38.6800
Average for Class.	Tech I	\$29.07	3.10%	\$29.97	1/1/2020	35%	65%	\$29.6600
Average for Class.	Clerical	\$26.40	3.10%	\$27.22	1/1/2020	35%	65%	\$26.9300
				\$0.00				\$0.00

Contract Completion Date: 12/31/2020

Fee Computation Summary by Engineering Task

PROJECT TOTAL - Mead & Hunt

Project ID:

2967-01-03

ONE Task Code	Task	Activity Code	Direct Labor Costs	Indirect Costs	Fixed Fee	Direct Expenses	Total
3	Obtain Data / Information	740					
5	Operational Planning/Kick Off Meeting	747	\$269.36	\$494.4400	\$48.8200	\$37.92	\$850.54
6	Condition Assessment Findings Mtg.	747					
7	County / Preser. Agency Coord. Mtg. 1	747	\$134.68	\$247.2200	\$24.4100		\$406.31
8	County / Preser. Agency Coord. Mtg. 2	747	\$134.68	\$247.2200	\$24.4100		\$406.31
9	County / Preser. Agency Coord. Mtg. 3	747	\$134.68	\$247.2200	\$24.4100		\$406.31
10	County / Preser. Agency Coord. Mtg. 4	747					
11	Public Open House Meeting (PIM)	743	\$1,363.12	\$2,502.1400	\$247.0700	\$433.40	\$4,545.73
12	Monthly Progress Meetings - 4 assumed	747	\$538.72	\$988.8700	\$97.6400		\$1,625.23
30	30% Plan Review Meeting	747	\$269.36	\$494.4400	\$48.8200	\$337.92	\$1,150.54
31	60% Plan Review Meeting	747	\$269.36	\$494.4400	\$48.8200	\$337.92	\$1,150.54
32	90% Plan Review Meeting	747	\$269.36	\$494.4400	\$48.8200	\$337.92	\$1,150.54
33	Create Project Schedule	740					
34	Monthly (18) Project Progress Reports & Invoices	740	\$848.43	\$1,557.3800	\$153.7800		\$2,559.59
52	Quality Assurance / Quality Control	740	\$917.44	\$1,684.0500	\$166.2900		\$2,767.78
53	Develop / Administer Change Mgmt. Plan	740					
55	Review Existing Project Information	747	\$330.58	\$606.8100	\$59.9200		\$997.31
56	Develop Condition Assessment Drawings	747				\$133.40	\$133.40
57	Bridge Condition Confirmation Site Visit	747	\$997.44	\$1,830.9000	\$180.7900		\$3,009.13
58	Laser Scan Survey	747					
59	Video / Photographic Doc. Of Bridge	747					
60	Topographic Survey Confirmation	747					
61	Map Deteriorated Concrete	747					
64	Section 106 Historical Coordination Items	769	\$4,240.42	\$7,783.7100	\$768.5800		\$12,792.71
63	Phase 1 Haz. Mat Assessment	765					
64	Perform Geotech. Invest., If Needed	1001					
66	Devel. 3-D Bridge Model	747					
67	Edit Aerial Video / Photography	747					
68	Arch Rib Structural Analysis (90 psf)	1001					
69	Devel. 30% Concrete Repair Sheets	1001					
70	Devel. Concrete Repair Strategies - 30%	1001					
71	Devel. 30% Concrete Demolition Sheets	1001					
72	Devel. 30% Railing Sheet, includes Design	1001					
73	Devel. 30% Element Replacement Sheets	1001					
74	Devel. 30% Clearing/Grubbing/Grading Shts.	1001	\$1,632.26	\$2,996.1800	\$295.8500		\$4,924.29
75	Devel. 30% Drainage/Erosion/Landscape Shts.	1001	\$1,794.70	\$3,294.3500	\$325.2900		\$5,414.34
76	Devel. 30% Civil Sheets	1001	\$1,552.60	\$2,849.9500	\$281.4100		\$4,683.96
77	Devel. 30% Geometry for Approach Road/Path	741	\$195.90	\$359.5900	\$35.5100		\$591.00
78	Devel. Front End & GPE Sheets	1001					
79	Prepare Rehabilitation Structure Survey Report	748	\$809.28	\$1,485.5100	\$146.6800		\$2,441.47
80	Assemble & Submit 30% Docs	1001	\$114.68	\$210.5100	\$20.7900		\$345.98
81	Develop Estimate of Prob. Constr. Cost - 30%	794	\$219.78	\$403.4300	\$39.8400		\$663.05
82	Devel. Visualization	743					
85	Prepare Programmatic Categorical Exclusion (PCE) & Replacement Element Struct. Calculation - 60%	767	\$2,571.66	\$4,720.5400	\$466.1100		\$7,758.31
86	Replacement Element Struct. Calculation - 60%	1002					
87	Advance Concrete Rehabilitation Sheets - 60%	1002					
88	Advance Conc. Replacement Sheets - 60%	1002					
89	Advance Erosion / Drainage / Landscaping - 60%	1002	\$2,629.76	\$4,827.1900	\$476.6400		\$7,933.59
90	Finalize Geometry for Approach Road/Path- 60%	742	\$97.95	\$179.8000	\$17.7500		\$295.50
91	Advance Civil Design Sheets - 60%	1002	\$1,730.04	\$3,175.6600	\$313.5700		\$5,219.27
92	Devel. Tech. Spec. Roster - (WisDOT Format)	794	\$229.36	\$421.0100	\$41.5700		\$691.94
93	Devel. Draft Bridge Maintenance Sch. - 60%	748	\$458.72	\$842.0300	\$83.1400		\$1,383.89
94	Devel. Green Conc. Mixes	794					
95	Address Cty. / Preservation 30% Comments	746	\$587.70	\$1,078.7800	\$106.5200		\$1,773.00
96	Devel. Abbreviated Design Study Report	748	\$927.92	\$1,703.2900	\$168.1900		\$2,799.40
97	Assemble & Submit 60% Docs	794	\$114.68	\$210.5100	\$20.7900		\$345.98
98	Develop Estimate of Prob. Constr. Cost - 60%	794	\$219.78	\$403.4300	\$39.8400		\$663.05
99	Constructability Review	740	\$229.36	\$421.0100	\$41.5700		\$691.94
102	Address Cty. / Preservation 60% Comments	746	\$587.70	\$1,078.7800	\$106.5200		\$1,773.00
103	Finalize Maintenance Sch. - 50-Year Life - 90&100%	748	\$124.68	\$228.8600	\$22.6000		\$376.14
104	Finalize Structural Design - 90&100%	1002					
105	Finalize Structural Sheets - 90&100%	794					
106	Finalize Drainage / Erosion / Landscaping 90&100%	742	\$2,194.20	\$4,027.6700	\$397.7000		\$6,619.57
107	Finalize Civil Sheets - 90&100%	742	\$1,338.24	\$2,456.4700	\$242.5600		\$4,037.27
108	Finalize Tech. Specifications (WisDOT Format)	794	\$526.06	\$965.6400	\$95.3500		\$1,587.05
109	Assemble & Submit 90% PS&E Docs	794	\$990.36	\$1,817.9000	\$179.5000		\$2,987.76
110	Develop Estimate of Prob. Constr. Cost - 90%	794	\$219.78	\$403.4300	\$39.8400		\$663.05
111	Advertise 90% Plans for Industry Review	740					
113	Address Cty. / Preservation 90% Comments	740	\$655.04	\$1,202.3900	\$118.7300		\$1,976.16
114	Address Industry Comments and Questions	740	\$114.68	\$210.5100	\$20.7900		\$345.98
115	Final Estimate of Prob. Constr. Cost	794	\$114.68	\$210.5100	\$20.7900		\$345.98
116	Submit Signed and Sealed PS&E Documents and File	794	\$593.40	\$1,089.2500	\$107.5500	\$300.00	\$2,090.20
TOTAL:			\$34,292.58	\$62,947.4600	\$6,215.5700	\$1,918.48	\$105,374.09

Mead and Hunt Indirect Cost Rate (%): 183.56%

Fixed Fee (%): 7.25%

Mead and Hunt Fixed Fee Indirect Cost Rate (%) 150.00% * Assumes Indirect Rate > 150%

Project ID: 2967-01-03

Mead and Hunt Direct Costs by Item

Item	Unit Amount	Unit Type	Rate	Total Expenses
Airfare	-	Round Trip	\$110.00	
Mileage	556	Miles	\$0.58	\$322.48
Parking	-	Day	\$35.00	
Parking	12	Hour	\$8.00	\$96.00
Per Diem	-	Day	\$120.00	
Overnight Delivery	-	Each	\$55.00	
Amtrak	-	Round Trip	\$135.00	
Car Rental - 4-Door Sedan	-	Day	\$165.00	
Car Rental - Premium SUV	-	Day	\$275.00	
Car Rental - Fullsize SUV	-	Day	\$265.00	
Car Rental - Stand. SUV	-	Day	\$230.00	
Car Rental - Pick-up Reg. Cab	-	Day	\$175.00	
Printing/Reprographics	5	Per Deliverable	\$300.00	\$1,500.00
Other	-			
Other	-			
Other	-			
TOTAL				\$1,918.48

\$1,918.48

Consultant Contract Total Fee Computation

Project ID 2967-01-03

Mead and Hunt

Project ID		Total for SubContract
Number of Staff Hours	731	731
Total Direct Labor	\$34,292.58	\$34,292.58
Total Indirect Costs	\$62,947.46	\$62,947.46
Fixed Fee	\$6,215.57	\$6,215.57
Direct Expenses	\$1,918.48	\$1,918.48
TOTAL COST	\$105,374.09	\$105,374.09
Total w/o Exp.	\$103,455.61	

Indir. \$ (%): 183.56%

Fixed Fee (%): 7.25%

May 22, 2019

Mr. Steve Olson, PhD P.E.
Olson Nesvold Engineers, P.S.C.
8000 West 78th St.
Suite 410
Edina, MN 55439

Subject: Wisconsin DOT ID # 2967-01-03
Milwaukee County Project Number P484-151619
Lake Park Arch Bridge over Ravine Drive
Milwaukee County Parks – Local Public Agency
Milwaukee County, Wisconsin

Dear Mr. Olson:

Malas Engineering LLC is please to submit this proposal to provide professional engineering and related service for the above-referenced project.

Scope of Services:

After receipt of authorization to proceed, WJE shall perform the following services and document the services per the assigned WisDOT Activity Codes:

Provide utility coordination in the vicinity of the bridge

Attend one Operational Planning Meeting (Kickoff Meeting)

Attend up to seven Progress Meetings

Development of estimates of Probable Construction Costs at the 30%, 60%, 90% and Final stages of project development

Development of a constructability review at the 60% stage of project development

Prepare overall review of deliverables subcontracted to Malas Engineering, LLC

Compensation:

The work described under Scope of Services will be performed on a lump-sum basis. ONE will pay Malas Engineering, LLC \$13,325.17 (Thirteen Thousand Three Hundred Twenty-five Dollars Seventeen Cents).

We appreciate the opportunity to submit this proposal to ONE and look forward to working with the ONE team on this project. We understand the project completion date to be December 31, 2020

Sincerely,

Mac Malas, PE

Mahmoud (Mac) N. Malas, PE
Principal Engineer

ME ***Malas Engineering LLC***
Integrated Innovative Solutions and Excellence in Engineering

W148 N6912 Terriwood Drive
Menomonee Falls, Wisconsin 53051
Telephone #: (414) 870-3112
Fax #: (262) 415-5631
WWW.MalasEngineering.Com

CONSULTANT COMMITMENT TO SUBCONTRACT TO DBE FIRM (continued) - Attachment A
 Wisconsin Department of Transportation DT1029

Confirmation of Participation

Total Value of Prime Contract \$399,687.88	Project ID 2967-01-03	Solicitation Date (m/d/yyyy) 2/12/2019
Name of DBE Firm Participating on This Contract Malas Engineering, LLC	Name of Prime/Sub Consultant Who Hired the DBE Firm Olson Nesvold Engineers, P.S.C.	
Type of Work Being Performed by DBE Firm Bridge Engineering	Area in Which DBE is Certified to Perform Work	Total Subcontract Value \$13,325.17

For Prime Consultants Only

Arrangements have been made with the participating DBE Firm to perform the type of work listed above for the total subcontract value listed above. I understand that I may not perform the listed work with my own forces or replace this DBE subcontractor without permission from the DBE Office.

Prime Consultant (Print Company Name) Olson Nesvold Engineers, P.S.C.
Prime Consultant or Representative's Name (Print) Steve A. Olson

 (Prime Consultant or Representative's Signature) (Date – m/d/yyyy)

For Consultant DBE Firms Only

Arrangements have been made with the Prime Consultant to perform the work listed above for the subcontract value listed above. I understand that failure to execute the work listed above will result in my company being replaced as a subcontractor on this project.

Consulting DBE Firm (Print Company Name) Malas Engineering, LLC
Consulting DBE Firm Representative's Name (Print) Mahmoud (Mac) Nasuh Malas

 (Consultant DBE Firm Representative's Signature) (Date - m/d/yyyy)

ONE Task Code	Task	Malas Eng	Total Hours By Line	% of Total Hrs.
		Princ.		
4	Kick Off Meeting	2	2	2.1%
5	County / Preser. Agency Coord. Mtg. 1	2	2	2.1%
6	County / Preser. Agency Coord. Mtg. 2			
7	County / Preser. Agency Coord. Mtg. 3			
8	Public Open House Meeting (PIM)			
9	Progress Mtgs - 4 Assumed	4	4	4.2%
27	30% Plan Review Meeting			
28	60% Plan Review Meeting			
29	90% Plan Review Meeting			
30	Project Progress Reports & Invoices	4	4	4.2%
48	Quality Assurance / Quality Control			
49	Develop / Administer Change Mgmt. Plan			
51	Review Existing Project Information	6	6	6.3%
52	Bridge Condition Confirmation			
53	Laser Scan Survey			
54	Video / Photographic Doc. Of Bridge			
55	Map Deteriorated Concrete			
56	Perform Geotech. Invest.			
58	Devel. 3-D Bridge Model			
59	Edit Aerial Video / Photography			
60	Arch Rib Structural Analysis (90 psf)			
61	Section 106 Historic Coordination			
62	Devel. 30% Concrete Rehabilitation Sheets			
63	Devel. Concrete Repair Strategies - 30%			
64	Devel. 30% Concrete Demolition Sheets			
65	Devel. 30% Supplemental Structural Sheets			
66	Devel. 30% Clearing/Grubbing/Grading Shts.			
67	Devel. 30% Drainage/Erosion/Landscape Shts.			
68	Devel. 30% Civil Sheets			
69	Devel. 30% Geometry / Approach Rd./Path			
70	Devel. Front End / GP&E / Extant Sheets			
71	Prepare Rehabilitation Structure Survey Report			
72	Assemble & Submit 30% Docs			
73	Devel Estimate of Prob. Constr. Cost - 30%	14	14	14.6%
76	Prep. Programmatic Categorical Exclusion (PCE) & Related Fac			
77	Replacement Element Struct. Calculation - 60%			
78	Advance Concrete Rehabilitation Sheets - 60%			
79	Advance Supplemental Structural Sheets - 60%			
80	Advance Erosion / Drainage / Landscaping - 60%			
81	Finalize Geometry for Approach Rd./Path - 60%			
82	Advance Civil Design Sheets - 60%			
83	Devel. Special Provisioins - CSI Format			
84	Devel. Draft Bridge Maintenance Sch. - 60%			
85	Devel. Green Conc. Mixes			
86	Address Cty. / Preservation 30% Comments			
87	Devel. Abbreviated Design Study Report			
88	Assemble & Sumit 60% Docs			
89	Develop Estimate of Prob. Constr. Cost - 60%	34	34	35.4%
90	Constructability Review	24	24	25.0%
93	Address Cty. / Preservation 60% Comments			
94	Finalize Maintenance Sch. - 50-Year Life - 90&100%			
95	Finalize Structural Design - 90&100%			
96	Finalize Supplemental Structural Sheets - 90&100%			
97	Finalize Drainage / Erosion / Landscaping 90&100%			
98	Finalize Civil Sheets - 90&100%			
99	Finalize Special Provisions (CSI Format)			
100	Assemble & Submit PS&E Docs			
101	Develop Estimate of Prob. Constr. Cost - 90&100%	6	6	6.3%
103	Address Cty. / Preservation 90% Comments			
104	Submit Signed and Sealed Documents and Files			
		96	96	100.0%

Summary of Staff Hours and Direct Labor Costs

Project ID:

2967-01-03-73

Classification			Malus Engineering			
Avg. Hourly Wage			Princ.		Total Direct Labor	
ONE Task Code	Task	Activity Code	Hours	Dollars	Hours	Dollars
4	Kick Off Meeting	747	2	\$132.34	2	\$132.34
5	County / Preser. Agency Coord. Mtg. 1	747	2	\$132.34	2	\$132.34
6	County / Preser. Agency Coord. Mtg. 2	747				
7	County / Preser. Agency Coord. Mtg. 3	747				
8	Public Open House Meeting (PIM)	743				
9	Progress Mtgs - 4 Assumed	747	4	\$264.68	4	\$264.68
27	30% Plan Review Meeting	747				
28	60% Plan Review Meeting	747				
29	90% Plan Review Meeting	747				
30	Project Progress Reports & Invoices	740	4	\$264.68	4	\$264.68
48	Quality Assurance / Quality Control	740				
49	Develop / Administer Change Mgmt. Plan	740				
51	Review Existing Project Information	747	6	\$397.02	6	\$397.02
52	Bridge Condition Confirmation	747				
53	Laser Scan Survey	747				
54	Video / Photographic Doc. Of Bridge	747				
55	Map Deteriorated Concrete	747				
56	Perform Geotech. Invest.	1001				
58	Devel. 3-D Bridge Model	747				
59	Edit Aerial Video / Photography	747				
60	Arch Rib Structural Analysis (90 psf)	1001				
61	Section 106 Historic Coordination	769				
62	Devel. 30% Concrete Rehabilitation Sheets	1001				
63	Devel. Concrete Repair Strategies - 30%	1001				
64	Devel. 30% Concrete Demolition Sheets	1001				
65	Devel. 30% Supplemental Structural Sheets	1001				
66	Devel. 30% Clearing/Grubbing/Grading Shts.	1001				
67	Devel. 30% Drainage/Erosion/Landscape Shts.	1001				

Summary of Staff Hours and Direct Labor Costs

68	Devel. 30% Civil Sheets	1001				
69	Devel. 30% Geometry / Approach Rd./Path	741				
70	Devel. Front End / GP&E / Extant Sheets	1001				
71	Prepare Rehabilitation Structure Survey Report	748				
72	Assemble & Submit 30% Docs	1001				
73	Devel Estimate of Prob. Constr. Cost - 30%	767	14	\$926.38	14	\$926.38
76	Prep. Programmatic Categorical Exclusion (PCE) & Rel	767				
77	Replacement Element Struct. Calculation - 60%	1002				
78	Advance Concrete Rehabilitation Sheets - 60%	1002				
79	Advance Supplemental Structural Sheets - 60%	1002				
80	Advance Erosion / Drainage / Landscaping - 60%	1002				
81	Finalize Geometry for Approach Rd./Path - 60%	742				
82	Advance Civil Design Sheets - 60%	1002				
83	Devel. Special Provisions - CSI Format	794				
84	Devel. Draft Bridge Maintenance Sch. - 60%	748				
85	Devel. Green Conc. Mixes	794				
86	Address Cty. / Preservation 30% Comments	746				
87	Devel. Abbreviated Design Study Report	748				
88	Assemble & Sumit 60% Docs	794				
89	Develop Estimate of Prob. Constr. Cost - 60%	794	34	\$2,249.78	34	\$2,249.78
90	Constructability Review	740	24	\$1,588.08	24	\$1,588.08
93	Address Cty. / Preservation 60% Comments	746				
94	Finalize Maintenance Sch. - 50-Year Life - 90&100%	748				
95	Finalize Structural Design - 90&100%	1002				
96	Finalize Supplemental Structural Sheets - 90&100%	794				
97	Finalize Drainage / Erosion / Landscaping 90&100%	742				
98	Finalize Civil Sheets - 90&100%	742				
99	Finalize Special Provisions (CSI Format)	794				
100	Assemble & Submit PS&E Docs	794				
101	Develop Estimate of Prob. Constr. Cost - 90&100%	794	6	\$397.02	6	\$397.02
103	Address Cty. / Preservation 90% Comments	740				
104	Submit Signed and Sealed Documents and Files	794				
TOTAL:			96	\$6,352.32	96	\$6,352.32

Consultant Direct Labor Rates

Project ID: 2967-01-03/73

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Employee Name	Classification	Current Rate	% Pay Increase	New Pay Rate	Date of Increase	% Work at Current Rate	% Work at Increased Rate	Weighted Average Hourly Rate
Mahmoud (Mac) N. Malas	Princ.	\$65.00	3.00%	\$66.95	1/1/2020	40%	60%	\$66.17

Contract Completion Date: 12/31/2020

Fee Computation Summary by Engineering Task

Malas TOTAL

Project ID: 2967-01-03

#REF!	Task	Activity Code	Direct Labor Costs	Indirect Costs	Fixed Fee	Direct Expenses	Total
4	Kick Off Meeting	747	\$132.34	\$119.11	\$23.99	\$17.40	\$292.83
5	County / Preser. Agency Coord. Mtg. 1	747	\$132.34	\$119.11	\$23.99	\$17.40	\$292.83
6	County / Preser. Agency Coord. Mtg. 2	747					
7	County / Preser. Agency Coord. Mtg. 3	747					
8	Public Open House Meeting (PIM)	743					
9	Progress Mtgs - 4 Assumed	747	\$264.68	\$238.21	\$47.97	\$69.60	\$620.47
27	30% Plan Review Meeting	747					
28	60% Plan Review Meeting	747					
29	90% Plan Review Meeting	747					
30	Project Progress Reports & Invoices	740	\$264.68	\$238.21	\$47.97		\$550.87
48	Quality Assurance / Quality Control	740					
49	Develop / Administer Change Mgmt. Plan	740					
51	Review Existing Project Information	747	\$397.02	\$357.32	\$71.96		\$826.30
52	Bridge Condition Confirmation	747					
53	Laser Scan Survey	747					
54	Video / Photographic Doc. Of Bridge	747					
55	Map Deteriorated Concrete	747					
56	Perform Geotech. Invest.	1001					
58	Devel. 3-D Bridge Model	747					
59	Edit Aerial Video / Photography	747					
60	Arch Rib Structural Analysis (90 psf)	1001					
61	Section 106 Historic Coordination	769					
62	Devel. 30% Concrete Rehabilitation Sheets	1001					
63	Devel. Concrete Repair Strategies - 30%	1001					
64	Devel. 30% Concrete Demolition Sheets	1001					
65	Devel. 30% Supplemental Structural Sheets	1001					
66	Devel. 30% Clearing/Grubbing/Grading Shts.	1001					
67	Devel. 30% Drainage/Erosion/Landscape Shts.	1001					
68	Devel. 30% Civil Sheets	1001					
69	Devel. 30% Geometry / Approach Rd./Path	741					
70	Devel. Front End / GP&E / Extant Sheets	1001					
71	Prepare Rehabilitation Structure Survey Report	748					
72	Assemble & Submit 30% Docs	1001					
73	Devel Estimate of Prob. Constr. Cost - 30%	767	\$926.38	\$833.74	\$167.91		\$1,928.03
76	Prep. Programmatic Categorical Exclusion (PCE) & R	767					
77	Replacement Element Struct. Calculation - 60%	1002					
78	Advance Concrete Rehabilitation Sheets - 60%	1002					
79	Advance Supplemental Structural Sheets - 60%	1002					
80	Advance Erosion / Drainage / Landscaping - 60%	1002					
81	Finalize Geometry for Approach Rd./Path - 60%	742					
82	Advance Civil Design Sheets - 60%	1002					
83	Devel. Special Provisions - CSI Format	794					
84	Devel. Draft Bridge Maintenance Sch. - 60%	748					
85	Devel. Green Conc. Mixes	794					
86	Address Cty. / Preservation 30% Comments	746					
87	Devel. Abbreviated Design Study Report	748					
88	Assemble & Sumit 60% Docs	794					
89	Develop Estimate of Prob. Constr. Cost - 60%	794	\$2,249.78	\$2,024.80	\$407.77		\$4,682.35
90	Constructability Review	740	\$1,588.08	\$1,429.27	\$287.84		\$3,305.19
93	Address Cty. / Preservation 60% Comments	746					
94	Finalize Maintenance Sch. - 50-Year Life - 90&100%	748					
95	Finalize Structural Design - 90&100%	1002					
96	Finalize Supplemental Structural Sheets - 90&100%	794					
97	Finalize Drainage / Erosion / Landscaping 90&100%	742					
98	Finalize Civil Sheets - 90&100%	742					
99	Finalize Special Provisions (CSI Format)	794					
100	Assemble & Submit PS&E Docs	794					
101	Develop Estimate of Prob. Constr. Cost - 90&100%	794	\$397.02	\$357.32	\$71.96		\$826.30
103	Address Cty. / Preservation 90% Comments	740					
104	Submit Signed and Sealed Documents and Files	794					
	TOTAL:		\$6,352.32	\$5,717.09	\$1,151.36	\$104.40	\$13,325.17

Malus Indirect Cost Rate (%): 90.00%

Fixed Fee (%): 7.25%

Malus Fixed Fee Indirect Cost Rate (%) 150.00%

Project ID: 1/3/2967

Malas Direct Costs by Item

Item	Unit Amount	Unit Type	Rate	Total Expenses
Airfare	-	Round Trip	\$15.00	\$0.00
Mileage Employee Owned Veh.	180	Miles	\$0.58	\$104.40
Parking	-	Day	\$35.00	\$0.00
Parking	-	Hour	\$11.00	\$0.00
Per Diem	-	Day	\$120.00	\$0.00
Overnight Delivery	-	Each	\$55.00	\$0.00
Amtrak	-	Round Trip	\$135.00	\$0.00
Other	-			\$0.00
Other	-			\$0.00
Other	-			\$0.00
Other	-			\$0.00
TOTAL				\$104.40

Consultant Contract Total Fee Computation

Malas Engineering

Project ID		Total for SubContract
Number of Staff Hours	96	96
Total Direct Labor	\$6,352.32	\$6,352.32
Total Indirect Costs	\$5,717.09	\$5,717.09
Fixed Fee	\$1,151.36	\$1,151.36
Direct Expenses	\$104.40	\$104.40
TOTAL COST	\$13,325.17	\$13,325.17
Total w/o Exp.	\$13,220.77	

Indir. \$ (%): 90.00%

Fixed Fee (%): 7.25%

Wiss, Janney, Elstner Associates, Inc.

Engineers | Architects | Materials Scientists

May 22, 2019

Mr. Steve Olson, PhD P.E.
Olson Nesvold Engineers, P.S.C.
8000 West 78th St.
Suite 410
Edina, MN 55439

Subject: Wisconsin DOT ID # 2967-01-03
Milwaukee County Project Number P484-151619
Lake Park Arch Bridge over Ravine Drive
Milwaukee County Parks – Local Public Agency
Milwaukee County, Wisconsin

Dear Mr. Olson:

Wiss, Janney, Elstner (WJE) is please to submit this proposal to provide professional engineering and related service for the above-referenced project.

Scope of Services:

After receipt of authorization to proceed, WJE shall perform the following services and document the services per the assigned WisDOT Activity Codes:

- Review of concrete repair methods for conformance to Preservation Brief 15
- Developing “green” concrete mixes as appropriate for new construction
- Participation in the development of concrete repair strategies
- Develop concrete repair special provisions to augment WisDOT Standard Specifications for Highway and Structure Construction

- Develop a bridge maintenance schedule consistent with extending the life of the bridge for 50 years

Compensation:

The work described under Scope of Services will be performed on a lump-sum basis. ONE will pay WJE \$23,152.19 (Twenty-three Thousand One Hundred Fifty-two Dollars Nineteen Cents).

We appreciate the opportunity to submit this proposal to ONE and look forward to working with the ONE team on this project. We understand the completion date of the project to be December 31, 2020

Sincerely,

Arne P. Johnson, PE, SE

Principal

ONE Task Code	Task	Wiss, Janney Elstner					Total Hours By Line	% of Total Hrs.
		Principal	Principal	Associate Principle	Senior Associate	Associate III		
4	Kick Off Meeting							
5	County / Preser. Agency Coord. Mtg. 1							
6	County / Preser. Agency Coord. Mtg. 2							
7	County / Preser. Agency Coord. Mtg. 3							
8	Public Open House Meeting (PIM)							
9	Progress Mtgs - 4 Assumed							
27	30% Plan Review Meeting							
28	60% Plan Review Meeting							
29	90% Plan Review Meeting							
30	Project Progress Reports & Invoices							
48	Quality Assurance / Quality Control							
49	Develop / Administer Change Mgmt. Plan							
51	Review Existing Project Information							
52	Bridge Condition Confirmation	2		1		8	11	9.6%
53	Laser Scan Survey							
54	Video / Photographic Doc. Of Bridge							
55	Map Deteriorated Concrete							
56	Perform Geotech. Invest.							
58	Devel. 3-D Bridge Model							
59	Edit Aerial Video / Photography							
60	Arch Rib Structural Analysis (90 psf)							
61	Section 106 Historic Coordination							
62	Devel. 30% Concrete Rehabilitation Sheets							
63	Devel. Concrete Repair Strategies - 30%	10	1	2		8	21	18.4%
64	Devel. 30% Concrete Demolition Sheets							
65	Devel. 30% Supplemental Structural Sheets							
66	Devel. 30% Clearing/Grubbing/Grading Shts.							
67	Devel. 30% Drainage/Erosion/Landscape Shts.							
68	Devel. 30% Civil Sheets							
69	Devel. 30% Geometry / Approach Rd./Path							
70	Devel. Front End / GP&E / Extant Sheets							
71	Prepare Rehabilitation Structure Survey Report							
72	Assemble & Submit 30% Docs							
73	Devel Estimate of Prob. Constr. Cost - 30%							
76	Prep. Programmatic Categorical Exclusion (PCE) & Related Fac							
77	Replacement Element Struct. Calculation - 60%							
78	Advance Concrete Rehabilitation Sheets - 60%							
79	Advance Supplemental Structural Sheets - 60%							
80	Advance Erosion / Drainage / Landscaping - 60%							
81	Finalize Geometry for Approach Rd./Path - 60%							
82	Advance Civil Design Sheets - 60%							
83	Devel. Special Provisioins - CSI Format					30	30	26.3%
84	Devel. Draft Bridge Maintenance Sch. - 60%	4	2	4			10	8.8%
85	Devel. Green Conc. Mixes	12	1	2			15	13.2%
86	Address Cty. / Preservation 30% Comments							
87	Devel. Abbreviated Design Study Report							
88	Assemble & Sumit 60% Docs							
89	Develop Estimate of Prob. Constr. Cost - 60%							
90	Constructability Review							
93	Address Cty. / Preservation 60% Comments							
94	Finalize Maintenance Sch. - 50-Year Life - 90&100%	8	1	6			15	13.2%
95	Finalize Structural Design - 90&100%	2	1	1			4	3.5%
96	Finalize Supplemental Structural Sheets - 90&100%							
97	Finalize Drainage / Erosion / Landscaping 90&100%							
98	Finalize Civil Sheets - 90&100%							
99	Finalize Special Provisions (CSI Format)					8	8	7.0%
100	Assemble & Submit PS&E Docs							
101	Develop Estimate of Prob. Constr. Cost - 90&100%							
103	Address Cty. / Preservation 90% Comments							
104	Submit Signed and Sealed Documents and Files							
		38	6	16		54	114	100.0%

Summary of Staff Hours and Direct Labor Costs

PROJECT TOTAL

Project ID: 6927-01-03

			Wiss, Janney Elstner											
Classification			Principal		Principal		Associate Principle		Senior Associate		Associate III		Total Direct Labor	
Avg. Hourly Wage			\$80.01		\$80.01		\$65.09		\$54.97		\$45.28			
ONE Task Code	Task	Activity Code	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars
4	Kick Off Meeting	747												
5	County / Preser. Agency Coord. Mtg. 1	747												
6	County / Preser. Agency Coord. Mtg. 2	747												
7	County / Preser. Agency Coord. Mtg. 3	747												
8	Public Open House Meeting (PIM)	743												
9	Progress Mtgs - 4 Assumed	747												
27	30% Plan Review Meeting	747												
28	60% Plan Review Meeting	747												
29	90% Plan Review Meeting	747												
30	Project Progress Reports & Invoices	740												
48	Quality Assurance / Quality Control	740												
49	Develop / Administer Change Mgmt. Plan	740												
51	Review Existing Project Information	747												
52	Bridge Condition Confirmation	747	2	\$160.02			1	\$65.09			8	\$362.24	11	\$587.35
53	Laser Scan Survey	747												
54	Video / Photographic Doc. Of Bridge	747												
55	Map Deteriorated Concrete	747												
56	Perform Geotech. Invest.	1001												
58	Devel. 3-D Bridge Model	747												
59	Edit Aerial Video / Photography	747												
60	Arch Rib Structural Analysis (90 psf)	1001												
61	Section 106 Historic Coordination	769												
62	Devel. 30% Concrete Rehabilitation Sheets	1001												
63	Devel. Concrete Repair Strategies - 30%	1001	10	\$800.10	1	\$80.01	2	\$130.18			8	\$362.24	21	\$1,372.53
64	Devel. 30% Concrete Demolition Sheets	1001												
65	Devel. 30% Supplemental Structural Sheets	1001												
66	Devel. 30% Clearing/Grubbing/Grading Shts.	1001												

Summary of Staff Hours and Direct Labor Costs

67	Devel. 30% Drainage/Erosion/Landscape Shts.	1001											
68	Devel. 30% Civil Sheets	1001											
69	Devel. 30% Geometry / Approach Rd./Path	741											
70	Devel. Front End / GP&E / Extant Sheets	1001											
71	Prepare Rehabilitation Structure Survey Report	748											
72	Assemble & Submit 30% Docs	1001											
73	Devel Estimate of Prob. Constr. Cost - 30%	767											
76	Prep. Programmatic Categorical Exclusion (PCE) & Rel	767											
77	Replacement Element Struct. Calculation - 60%	1002											
78	Advance Concrete Rehabilitation Sheets - 60%	1002											
79	Advance Supplemental Structural Sheets - 60%	1002											
80	Advance Erosion / Drainage / Landscaping - 60%	1002											
81	Finalize Geometry for Approach Rd./Path - 60%	742											
82	Advance Civil Design Sheets - 60%	1002											
83	Devel. Special Provisioins - CSI Format	794								30	\$1,358.40	30	\$1,358.40
84	Devel. Draft Bridge Maintenance Sch. - 60%	748	4	\$320.04	2	\$160.02	4	\$260.36				10	\$740.42
85	Devel. Green Conc. Mixes	794	12	\$960.12	1	\$80.01	2	\$130.18				15	\$1,170.31
86	Address Cty. / Preservation 30% Comments	746											
87	Devel. Abbreviated Design Study Report	748											
88	Assemble & Sumit 60% Docs	794											
89	Develop Estimate of Prob. Constr. Cost - 60%	794											
90	Constructability Review	740											
93	Address Cty. / Preservation 60% Comments	746											
94	Finalize Maintenance Sch. - 50-Year Life - 90&100%	748	8	\$640.08	1	\$80.01	6	\$390.54				15	\$1,110.63
95	Finalize Structural Design - 90&100%	1002	2	\$160.02	1	\$80.01	1	\$65.09				4	\$305.12
96	Finalize Supplemental Structural Sheets - 90&100%	794											
97	Finalize Drainage / Erosion / Landscaping 90&100%	742											
98	Finalize Civil Sheets - 90&100%	742											
99	Finalize Special Provisions (CSI Format)	794								8	\$362.24	8	\$362.24
100	Assemble & Submit PS&E Docs	794											
101	Develop Estimate of Prob. Constr. Cost - 90&100%	794											
103	Address Cty. / Preservation 90% Comments	740											
104	Submit Signed and Sealed Documents and Files	794											
TOTAL:			38	\$3,040.38	6	\$480.06	16	\$1,041.44		54	\$2,445.12	114	\$7,007.00

Consultant Direct Labor Rates

Project ID: 2967-01-03

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Employee Name	Classification	Current Rate	% Pay Increase	New Pay Rate	Date of Increase	% Work at Current Rate	% Work at Increased Rate	Weighted Average Hourly Rate
Arne Johnson	Principal	\$78.25	3.00%	\$80.60	1/1/2020	25%	75%	\$80.01
Deborah Slaton	Principal	\$78.25	3.00%	\$80.60	1/1/2020	25%	75%	\$80.01
John Lawler	Associate Principle	\$63.66	3.00%	\$65.57	1/1/2020	25%	75%	\$65.09
Steve Lauer	Senior Associate	\$53.76	3.00%	\$55.37	1/1/2020	25%	75%	\$54.97
Stephen Garrett	Associate III	\$44.28	3.00%	\$45.61	1/1/2020	25%	75%	\$45.28

Contract Completion Date: 12/31/2020

Fee Computation Summary by Engineering Task

WSJ TOTAL

Project ID: 2967-01-03

#REF!	Task	Activity Code	Direct Labor Costs	Indirect Costs	Fixed Fee	Direct Expenses	Total
4	Kick Off Meeting	747					
5	County / Preser. Agency Coord. Mtg. 1	747					
6	County / Preser. Agency Coord. Mtg. 2	747					
7	County / Preser. Agency Coord. Mtg. 3	747					
8	Public Open House Meeting (PIM)	743					
9	Progress Mtgs - 4 Assumed	747					
27	30% Plan Review Meeting	747					
28	60% Plan Review Meeting	747					
29	90% Plan Review Meeting	747					
30	Project Progress Reports & Invoices	740					
48	Quality Assurance / Quality Control	740					
49	Develop / Administer Change Mgmt. Plan	740					
51	Review Existing Project Information	747					
52	Bridge Condition Confirmation	747	\$587.35	\$1,246.89	\$106.46		\$1,940.70
53	Laser Scan Survey	747					
54	Video / Photographic Doc. Of Bridge	747					
55	Map Deteriorated Concrete	747					
56	Perform Geotech. Invest.	1001					
58	Devel. 3-D Bridge Model	747					
59	Edit Aerial Video / Photography	747					
60	Arch Rib Structural Analysis (90 psf)	1001					
61	Section 106 Historic Coordination	769					
62	Devel. 30% Concrete Rehabilitation Sheets	1001					
63	Devel. Concrete Repair Strategies - 30%	1001	\$1,372.53	\$2,913.74	\$248.77		\$4,535.04
64	Devel. 30% Concrete Demolition Sheets	1001					
65	Devel. 30% Supplemental Structural Sheets	1001					
66	Devel. 30% Clearing/Grubbing/Grading Shts.	1001					
67	Devel. 30% Drainage/Erosion/Landscape Shts.	1001					
68	Devel. 30% Civil Sheets	1001					
69	Devel. 30% Geometry / Approach Rd./Path	741					
70	Devel. Front End / GP&E / Extant Sheets	1001					
71	Prepare Rehabilitation Structure Survey Report	748					
72	Assemble & Submit 30% Docs	1001					
73	Devel Estimate of Prob. Constr. Cost - 30%	767					
76	Prep. Programmatic Categorical Exclusion (PCE) & R	767					
77	Replacement Element Struct. Calculation - 60%	1002					
78	Advance Concrete Rehabilitation Sheets - 60%	1002					
79	Advance Supplemental Structural Sheets - 60%	1002					
80	Advance Erosion / Drainage / Landscaping - 60%	1002					
81	Finalize Geometry for Approach Rd./Path - 60%	742					
82	Advance Civil Design Sheets - 60%	1002					
83	Devel. Special Provisions - CSI Format	794	\$1,358.40	\$2,883.75	\$246.21		\$4,488.36
84	Devel. Draft Bridge Maintenance Sch. - 60%	748	\$740.42	\$1,571.84	\$134.20		\$2,446.46
85	Devel. Green Conc. Mixes	794	\$1,170.31	\$2,484.45	\$212.12		\$3,866.88
86	Address Cty. / Preservation 30% Comments	746					
87	Devel. Abbreviated Design Study Report	748					
88	Assemble & Submit 60% Docs	794					
89	Develop Estimate of Prob. Constr. Cost - 60%	794					
90	Constructability Review	740					
93	Address Cty. / Preservation 60% Comments	746					
94	Finalize Maintenance Sch. - 50-Year Life - 90&100%	748	\$1,110.63	\$2,357.76	\$201.30		\$3,669.69
95	Finalize Structural Design - 90&100%	1002	\$305.12	\$647.74	\$55.30		\$1,008.16
96	Finalize Supplemental Structural Sheets - 90&100%	794					
97	Finalize Drainage / Erosion / Landscaping 90&100%	742					
98	Finalize Civil Sheets - 90&100%	742					
99	Finalize Special Provisions (CSI Format)	794	\$362.24	\$769.00	\$65.66		\$1,196.90
100	Assemble & Submit PS&E Docs	794					
101	Develop Estimate of Prob. Constr. Cost - 90&100%	794					
103	Address Cty. / Preservation 90% Comments	740					
104	Submit Signed and Sealed Documents and Files	794					
TOTAL:			\$7,007.00	\$14,875.17	\$1,270.02		\$23,152.19

WSJ Indirect Cost Rate (%): 212.29% (2018 Audited FAR) Fixed Fee (%): 7.25%

WSJ Fixed Fee Indirect Cost Rate (%) 150.00% * Assumes Indirect Rate > 150%

Project ID: 2967-01-03

WJE Direct Costs by Item

Item	Unit Amount	Unit Type	Rate	Total Expenses
Airfare	-	Round Trip	\$75.00	\$0.00
Mileage	-	Miles	\$0.58	\$0.00
Parking	-	Day	\$35.00	\$0.00
Parking	-	Hour	\$11.00	\$0.00
Per Diem	-	Day	\$120.00	\$0.00
Overnight Delivery	-	Each	\$55.00	\$0.00
Amtrak	-	Round Trip	\$135.00	\$0.00
Other	-			\$0.00
Other	-			\$0.00
Other	-			\$0.00
Other	-			\$0.00
TOTAL				\$0.00

Consultant Contract Total Fee Computation

Wiss, Jannney, Elstner

Project ID		Total for SubContract
Number of Staff Hours	114	114
Total Direct Labor	\$7,007.00	\$7,007.00
Total Indirect Costs	\$14,875.17	\$14,875.17
Fixed Fee	\$1,270.02	\$1,270.02
Direct Expenses	\$0.00	\$0.00
TOTAL COST	\$23,152.19	\$23,152.19
Total w/o Exp.	\$23,152.19	\$23,152.19

Indir. \$ (%): 212.29%

Fixed Fee (%): 7.25%



June 6, 2019

Rich Johnson
Project Manager
Olson and Nesvold Engineers, PSC
8000 W. 78th Street, Suite #410
Edina, MN 55439

RE: **WisDOT Project ID: 2967-01-03**
Lake Park Arch Bridge Rehabilitation
Milwaukee County, WI

Dear Mr. Johnson:

As requested, Himalayan Consultants, LLC (Himalayan) is submitting this proposal for conducting a Geotechnical Investigation and a Phase 1 Hazardous Material Investigation for the project (hereinafter referred to as Project Site) referenced above.

Himalayan will perform all investigative activities in accordance with the existing Wisconsin Department of Transportation (WisDOT) practices, applicable ASTM and AASHTO procedures, Wisconsin Department of Natural Resources (WDNR) rules and regulations, and commonly accepted engineering practices.

SCOPE OF WORK

A. Geotechnical Investigation and Report

- Prepare a layout of the proposed borings (Prior to drilling activities, Olson and Nesvold Engineers (ONE) will provide a rough sketch of boring locations).
- Contact and coordinate with the Digger's Hotline to obtain the utility clearance (coordination for utility locate) at the boring locations and surrounding areas (within 25 feet radius of boring locations) prior to commencement of drilling.
- Administer a drilling contract to advance two test borings as follows;
 - Bridge borings. One boring will be located on the existing roadway at each end of the bridge structure. For helical pier foundation system currently considered, the depths of borings is anticipated to be on the range of 60 feet below ground surface as estimated by ONE.
- Drilling and sampling for the borings will be conducted in accordance with the Standard Penetration Test Procedure (AASHTO T-206). Sampling and testing of soils will be conducted at every 2.5-foot interval for the first 10 feet and every 5-foot interval thereafter.

- The field and laboratory tests conducted on soil samples will include the following tests:
 - Field tests
 - Blow counts for all samples. Unconfined compressive strengths using a calibrated pocket penetrometer on cohesive soil samples.
 - Lab tests
 - Moisture content determination [ASTM D2216] (estimated about 28 samples).
- Classify soil using drillers' observations using minimal laboratory testing. A geotechnical engineer/geologist will visually/manually classify the soils to determine the soil type in accordance with the AASHTO and/or Unified Soil Classification System (USCS) [ASTM D2488-93].
- Groundwater depths will be recorded during and/or after completion of drilling.
- All boreholes will be abandoned / backfilled as per the April 20, 1992 guidelines titled "Wisconsin Department of Transportation Geotechnical Section - Drilled Borehole and Monitoring Well Abandonment Procedures".
- Boring logs will be completed for each boring and submitted with the geotechnical investigation report as attachments.
- Conduct survey of the boring locations using a GPS device. Upon completion of the drilling activities, Himalayan will provide surface elevations of the boring locations.
- Prepare Geotechnical Investigation Report (GIR) per WisDOT Bridge Manual summarizing the results and analysis of the borings to include the following items;
 - Surface, subsurface, and groundwater conditions.
 - Foundation analysis and recommendations. Because the proposed foundation systems (helical anchor/pile foundations) are the propriety systems, provide only soil design parameters based on soil conditions. The detailed design will be performed by an experienced helical pile contractor or a structural engineer.
 - Discussion of construction considerations (geotechnical conditions that can potentially affect the project such as site dewatering, excavation and backfill, soil improvements, etc.).
- Intertek/Professional Service Industries (PSI) will be the drilling subcontractor.

B. Phase 1 Hazardous Material Assessment and Report

The Phase 1 HMA will consist of a regulatory search of the local, state, and federal (U.S. EPA) databases and a reconnaissance of the Project Site to identify the properties of potential hazardous materials concerns and will include the following tasks:

- Project Information: Himalayan will coordinate with ONE to obtain and review the preliminary project construction information for the project.

- Environmental Database Review: Himalayan will procure and conduct a record search of the federal, state, and local databases within ¼ mile of the Project Site. Himalayan will retain Environmental Data Resources, Inc. (EDR) of Milford, Connecticut for database search. Additionally, Himalayan will review Wisconsin Remediation and Redevelopment Database (WRRD) from the WDNR online database “BRRTS on the Web” and web based mapping system “RR Sites Map”, and the Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) storage tank database, also available on-line, to cross-reference and supplement the EDR provided federal/state database records.
- Historical Land Use Information: Himalayan will review land use information sources that include available historical as-builts, past aerial photographs (up to five dates), available Sanborn maps (up to three dates) and topographic maps.
- Field Reconnaissance: Himalayan will conduct a visual observation of the properties within and adjacent to the Project Site for potential sources of hazardous materials contamination.
- Interviews: Himalayan will conduct site and/or telephone interviews with the owners/long-term residents and/or operators of the properties of potential concern.
- Soils and Groundwater Information: Himalayan will review the subsurface information available at Wisconsin Department of Natural Resources (WDNR) files from the previously completed hazardous material investigation/remediation reports for parcels/sites of potential concern that are located in the project corridor. Additionally, USDA Natural Resources Conservation Service (NRCS) Web Soil Survey and subsurface investigation reports available on-line from WisDOT’s HSIS database will be reviewed, if necessary, for preliminary soils and depth to groundwater information.
- Regulatory Agency Files: Himalayan will review previously published site investigation and remedial action reports available from files located at WDNR offices for properties, which have hazardous materials concerns and possess the potential to impact the proposed improvements.
- Report: Himalayan will prepare a final report consistent with and containing the information outlined in the recommended Report Format (Item 5) of WisDOT FDM Procedure 21-35-5.

ASSUMPTIONS

- Drilling and sampling to be accomplished utilizing a conventional drilling rig (estimated field drilling operations = 2 days).
- No rock coring is anticipated as part of the geotechnical investigation. Any rock coring if needed will be considered extra services.

- Global stability (overall slope stability) and external stability checks (sliding, eccentricity, and bearing analysis at the base) for the most critical section of retaining walls (if needed) will be considered extra services.
- No traffic control will be needed as the roadway is currently closed
- If borings will have to be advanced to deeper depths than estimated for this proposal, Himalayan will contact ONE to seek approval for drilling deeper at such location(s). It is Himalayan's understanding that the extra costs incurred due to any potential additional drilling and sampling would be addressed through a change order at a later date.
- Any permitting fees needed to access the project will be considered extra services.
- The Phase 1 HMA cost is based on an assessment of an estimated one property (based on Himalayan's preliminary review of WDNR on-line records and Google Earth search of local businesses located in and/or adjacent to the Project Site) that could be of potential hazardous materials concerns to the proposed improvements. Evaluation of additional properties will be considered extra services.
- The proposal is based on the scope of work outlined above under normal working conditions encountered at the job site and does not take into consideration delays caused by changes in site conditions, inclement weather, sub-freezing temperatures, or other unforeseen circumstances.

ESTIMATED COSTS

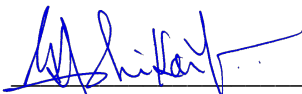
Based on the scope of work outlined above, the actual cost for the scope of work is \$13,827.96, plus a fixed fee of \$598.86, not to exceed \$14,426.82. The breakdown of costs is provided in the attached spreadsheets.

We understand the project completion date to be December 31, 2020.

Himalayan greatly appreciates the opportunity to submit this proposal and looks forward to working with you in this and the upcoming projects through their completion. If you have any questions regarding this proposal, please call me at (262) 502-0066.

Sincerely,

HIMALAYAN CONSULTANTS, LLC



Gopal K. Adhikary, P.E.
Senior Engineer

CONSULTANT COMMITMENT TO SUBCONTRACT TO DBE FIRM (continued) - Attachment A
 Wisconsin Department of Transportation DT1029

Confirmation of Participation

Total Value of Prime Contract \$399,687.88	Project ID 2967-01-03	Solicitation Date (m/d/yyyy) 2/12/2019
Name of DBE Firm Participating on This Contract Himalayan Consultants, LLC	Name of Prime/Sub Consultant Who Hired the DBE Firm Olson Nesvold Engineers, P.S.C.	
Type of Work Being Performed by DBE Firm Geotechnical and Environmental Eng.	Area in Which DBE is Certified to Perform Work	Total Subcontract Value \$14,426.82

For Prime Consultants Only

Arrangements have been made with the participating DBE Firm to perform the type of work listed above for the total subcontract value listed above. I understand that I may not perform the listed work with my own forces or replace this DBE subcontractor without permission from the DBE Office.

Prime Consultant (Print Company Name) Olson Nesvold Engineers, P.S.C.
Prime Consultant or Representative's Name (Print) Steve A. Olson

 (Prime Consultant or Representative's Signature)

 (Date – m/d/yyyy)

For Consultant DBE Firms Only

Arrangements have been made with the Prime Consultant to perform the work listed above for the subcontract value listed above. I understand that failure to execute the work listed above will result in my company being replaced as a subcontractor on this project.

Consulting DBE Firm (Print Company Name) Himalayan Consultants, LLC
Consulting DBE Firm Representative's Name (Print) Gopal K. Adhikary

 (Consultant DBE Firm Representative's Signature)

 (Date - m/d/yyyy)

Summary of Staff Hours and Direct Labor Costs

Project Total

Classification		Senior Engineer		Project Manager		Project Engineer		Surveyor		CADD Tech		Accountant			
Avg. Hourly Wage		\$70.00		\$33.00		\$32.00		\$24.00		\$20.00		\$35.00		Total Direct Labor	
Task	Activity Code	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars
Contract Administration	740	2	\$140.00	2	\$66.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	4	\$206.00
Project Management	771	0	\$0.00	2	\$66.00	0	\$0.00	0	\$0.00	0	\$0.00	2	\$70.00	4	\$136.00
Phase 1 Hazardous Materials Investigation	767	4	\$280.00	20	\$660.00	8	\$256.00	0	\$0.00	2	\$40.00	0	\$0.00	34	\$1,236.00
Asbestos Inspection	765	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Geotechnical Investigation	644	6	\$420.00	2	\$66.00	36	\$1,152.00	2	\$48.00	2	\$40.00	0	\$0.00	48	\$1,726.00
TOTAL:		12	\$840.00	26	\$858.00	44	\$1,408.00	2	\$48.00	4	\$80.00	2	\$70.00	90	\$3,304.00

Fee Computation Summary by Engineering Task

Project Total

Task	Activity Code	Direct Labor Costs	Indirect Costs	Direct Expenses	Fixed Fee/Profit	Total
Contract Administration	740	\$206.00	\$365.65	\$0.00	\$37.34	\$608.99
Project Management	771	\$136.00	\$241.40	\$0.00	\$24.65	\$402.05
Phase 1 Hazardous Materials Investigation	767	\$1,236.00	\$2,193.90	\$359.00	\$224.03	\$4,012.93
Asbestos Inspection	765	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Geotechnical Investigation	644	\$1,726.00	\$3,063.65	\$335.36	\$312.84	\$5,437.85
TOTAL:		\$3,304.00	\$5,864.60	\$694.36	\$598.86	\$10,461.82

Home Office Indirect Cost Rate: 177.50%

Fixed Fee 7.25%

Fixed Fee Indirect Cost Rate: 150.00%

Direct Costs by Item

Item	Unit Amount	Unit Type	Rate	Total Expenses
Copies (Black and White): In-House	50	Each	\$0.10	\$5.00
Copies (Color): In-House	20	Each	\$0.20	\$4.00
Mileage - Employee Vehicle (3 Trips)	192	Each	\$0.58	\$111.36
Data Services/Sanborn Maps/Materials (Outside Service)	1	Site	\$350.00	\$350.00
Asbestos (PLM) Analysis	0	Each	\$20.00	\$0.00
Moisture Content Determination	28	Each	\$8.00	\$224.00
TOTAL				\$694.36

Contract Total Fee Computation

Project ID	2967-01-03	Total for Contract
Number of Staff Hours	90	90
Direct Labor Costs	\$3,304.00	\$3,304.00
Indirect Costs	\$5,864.60	\$5,864.60
Direct Expenses	\$694.36	\$694.36
Fixed Fee/Profit	\$598.86	\$598.86
Subtotal	\$10,461.82	\$10,461.82
Subconsultant 1 - Intertek/PSI	\$3,965.00	\$3,965.00
Subconsultant 2	\$0.00	\$0.00
Subtotal	\$3,965.00	\$3,965.00
TOTAL COST	\$14,426.82	\$14,426.82

Home Office Indirect Cost Rate: 177.50%

Fixed Fee Indirect Cost Rate: 150.00%

Fixed Fee 7.25%