

THREE PARTY DESIGN ENGINEERING SERVICES CONTRACT  
SIGNATURE PAGES

ENGINEERING SERVICES CONTRACT

BETWEEN THE WISCONSIN DEPARTMENT OF TRANSPORTATION, CITY OF RACINE (MUNICIPALITY)  
AND HARDESTY & HANOVER, LLC (CONSULTANT) FOR

Project ID 2290-10-02  
C Racine, State St  
Bridge over Root River (B-51-0069)  
Racine County

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 Wisconsin DOT ID: 2290-10-02/72 C Racine, State Street; Bridge over Root River, B510069; Racine County dated April 17, 2025 for preparing bridge rehabilitation plans and specifications for the State Street lift bridge over the Root River (B-51-69). This Qualification Based Selection was made based on the CONSULTANT'S Notice of Interest response and 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: Amanda Johansen; Design Project Manager, Wisconsin Department of Transportation, Southeast Region; 141 NW Barstow St, Waukesha, WI 53187; amanda.johansen@dot.wi.gov; 262-521-4465.

The MUNICIPALITY REPRESENTATIVE is: Ron Pritzlaff; Assistant Commissioner of Public Works, City of Racine; 730 Washington Avenue, Room 304, Racine, WI 53403; Ronald.pritzlaff@cityofracine.gov; 262-636-9400.

The CONSULTANT REPRESENTATIVE is: Michael Delemont; Senior Associate; 313 N Plankinton Ave, Suite 207, Milwaukee, WI 53203; mdelemont@hardestyhanover.com; 414-207-4157.

The CONSULTANT SERVICES will be performed for the DEPARTMENT's Southeast Region office located in Waukesha, WI and will be completed by June 30, 2027. Deliver PROJECT DOCUMENTS to 141 NW Barstow St, Waukesha, WI 53187, 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

(1) Actual costs to the CONSULTANT, except for subcontracts, up to \$752,006.33, plus a fixed fee of \$67,785.29, not to exceed \$819,791.62 in total.

(2) For services listed in the PROSECUTION AND PROGRESS Section of the SPECIAL PROVISIONS subcontracted to 1<sup>st</sup> tier subconsultant Graef-USA, Inc., the CONSULTANT's actual cost to Graef-USA, Inc. based on Graef-USA, Inc's actual cost up to \$390,327.62, plus a fixed fee of \$31,121.34, not to exceed \$421,448.96 in total.

Date: April 25, 2024

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Compensation for all SERVICES provided by the CONSULTANT under the terms of the CONTRACT shall be for an amount not to exceed \$ 1,241,240.58.

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 October 18, 2023 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.

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

The parties also agree to all of the Special Provisions which are annexed and made a part of this CONTRACT, consisting of ten (10) pages.

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

For the CONSULTANT

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

For the DEPARTMENT

By: \_\_\_\_\_

Contract Manager, WisDOT

Date: \_\_\_\_\_

For the MUNICIPALITY

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

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## **THREE PARTY DESIGN CONTRACT SPECIAL PROVISIONS**

Revised 05/26/16

### **VI. SPECIAL PROVISIONS**

Section II. C. 3. a. is amended to substitute the DEPARTMENT for the MUNICIPALITY.

#### ***SCOPE OF SERVICES***

##### ***A. PROJECT DESCRIPTION***

The project scope includes design of rehabilitation of structure B-51-0069, State Street Bridge over the Root River in Racine, Wisconsin.

The project is not anticipated to include any roadway, bicycle, pedestrian, nor drainage improvements.

##### ***B. DESIGN REPORTS***

- (1) Request for Exceptions to Design Standards: Not included.
- (2) Encroachment Report: Not included.
- (3) Other Reports:

Prepare the following engineering reports/analyses as directed by the MUNICIPALITY:

###### **(a) Complete Street Documentation**

The CONSULTANT shall prepare a Bike and Pedestrian Accommodation memorandum to be included with the Design Study Report for the project according to the MANUAL.

###### **(b) TMP**

1. The CONSULTANT shall prepare a Transportation Management Plan (TMP) Type 2 for the proposed improvements. The primary elements will consist of developing a Traffic Control Plan (TCP) and a Public Information and Outreach Plan (PIOP) that includes project notification to targeted roadway user groups.

2. The development of a traffic operations plan (TOP) and incident management plan (IMP) are not anticipated as part of the TMP and shall be considered "Extra Work" if they are deemed necessary.

###### **(c) Design Study Report**

Prepare a Design Study Report (DSR) as set forth in the MANUAL.

## **C. ENVIRONMENTAL DOCUMENTATION**

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

Prepare a CEC Environmental document for the PROJECT as specified in the MANUAL and Chapter TRANS 400, Wisconsin Administrative Code. Furnish the required number to the MUNICIPALITY for approval.

Prepare an environmental document that evaluates reasonable alternatives to the PROJECT and consider other reasonable actions or activities that may achieve the same or similar goals of the proposed highway PROJECT, including other or additional transportation alternatives and intermodal opportunities and the alternative of taking no action. Evaluate alternative courses of action based upon a balanced consideration of the environment, public comments, and the need for safe and efficient transportation consistent with local, state, and national environmental goals. Prepare environmental documents that are concise and emphasize significant environmental issues and plausible alternatives. Comply with requirements specified in the MANUAL and TRANS 400, Wisconsin Administrative Code. In the event of a conflict between the MANUAL and TRANS 400, Wisconsin Administrative Code, the administrative rule supersedes.

- (1) Environmental Assessments: Not included.
- (2) Environmental Impact Statements: Not included.
- (3) Agricultural Impact Notice: Not included.
- (4) Section 4(f) Evaluation: Not included.
- (5) Section 6(f) Evaluation: Not included.
- (6) Historical and Archaeological Surveys and Studies: Not included. (Screening list)
- (7) Noise Analysis: Not included.
- (8) Air Quality: Not included.
- (9) Hazardous Materials/Contamination Assessments: Not included.

## **D. AGENCY COORDINATION**

- (1) Section 401 and 402 Certifications: Not included.
- (2) Section 404 Permits: Not included.
- (3) Section 9 and 10 Permits
- (4) Threatened and Endangered (T/E) Species:

Coordinate with the U.S. Fish and Wildlife Services (FWS) in accordance with the MANUAL. Request a T/E species list from the FWS IPAC website. Any coordination associated with T&E indicated by the WDNR will be considered Extra Services.

Coordination to acquire an Incidental Take Authorization (ITA) is not included and will be considered Extra Services.

(5) Native American Tribes:

Prepare notification email and submit to the DEPARTMENT for review. The DEPARTMENT will submit to Tribes. Correspondence will be sent by the DEPARTMENT.

(6) Federal Aviation Administration:

Complete consultation with FAA for project design engineering requirements in accordance with the MANUAL. Notification for requirement for construction equipment will be considered "Extra Services".

(7) WisDOT – Bureau of Aeronautics:

Initiate consultation with WisDOT-Bureau of Aeronautics via the WisDOT BOA Transportation Project Coordination Form.

(8) Wisconsin Department of Natural Resources:

Complete consultation with the WDNR.

a) Complete NHI review via WDNR Public Portal for state listed species.

b) Prepare DNR Project Coordination Request checklist and submit to the DEPARTMENT for review and approval prior to submitting.

c) Prepare necessary application for Section 401 Certification to evaluate the effects of the PROJECT on water quality, in accordance with the provisions of the Clean Water Act and Chapter TRANS 400, Wisconsin Administrative Code and the MANUAL.

d) Prepare Transportation Regional General Permit (TCGP).

## ***E. RAILROAD/ UTILITY INVOLVEMENTS***

(1) Railroad Negotiations/Agreements: Not included.

(2) Utility Coordination

Perform all utility coordination in accordance with:

a) The MANUAL

b) Non-TRANS 220

c) The WisDOT "Guide to Utility Coordination"

d) The "Utility Coordination Task List for Design Consultant Contracts" as agreed upon between DEPARTMENT/MUNICIPALITY and CONSULTANT.

(3) The DEPARTMENT/MUNICIPALITY will provide the CONSULTANT with a list of known utilities on the PROJECT and a list of contact personnel for utility coordination. This list is not warranted to be complete, but is furnished to assist the CONSULTANT. Verify and update the list.

(4) 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 that will allow it to meet its planned utility coordination schedule.

(5) Utility Negotiations/Agreements: Not included.

## ***F. PUBLIC INVOLVEMENT***

(1) Public Involvement Meetings:

(a) Conduct or assist the MUNICIPALITY in holding one public involvement meeting(s) 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.

(2) Formal Public Hearing: Not included.

(3) Open Forum Public Hearing: Not included.

(4) Project Mailings, Newsletters:

(a) The MUNICIPALITY will prepare a pre-formatted database for project mailings, newsletters or any contact lists.

(b) The CONSULTANT will print and mail project notification letters to notify

property owners of the PROJECT and upcoming field data collection for environmental purposes, survey and other design purposes. The mailing would include approximately 20 adjacent properties.

(c) The CONSULTANT will print and mail the public involvement meeting newsletters with information provided by the CONSULTANT. The CONSULTANT shall prepare invitations in the newsletter format for the public involvement meeting. The mailing would include approximately 20 adjacent properties.

## **G. MEETINGS**

- (1) Attend or hold a virtual Operational Planning Meeting to discuss the organization and processing of the Services under this CONTRACT.
- (2) A 30% plan review meeting with the MUNICIPALITY and the DEPARTMENT.
- (3) A Final Plan Review Meeting with the MUNICIPALITY shall be held approximately 45 - 60 days ahead of the P.S. & E. submittal date.
- (4) Attend the pre-construction conference as scheduled by the MUNICIPALITY.
- (5) Eighteen meeting(s) shall be held to plan, review, and coordinate the PROJECT with the MUNICIPALITY'S staff.
- (6) Conduct one virtual coordination meeting(s) with utilities having facilities on the PROJECT.
- (7) Conduct one field review meeting in combination with the SSR site visit.

## **H. SURVEYS**

- (1) Locate the necessary section corners for the right-of-way plat. It is estimated that up to 7 section corners need to be located and established and tied to Racine County coordinates. Do not apply for reimbursement from the applicable county for these costs.
- (2) Conduct surveys that provide information necessary for the preparation of plats and acquisition of rights of way and property. All such information shall be provided in an electronic file in accordance with the MANUAL.
- (3) Tie surveys to section corners, quarter section corners, and to street lines or block corners in platted areas. Ties shall be in sufficient detail to permit the preparation of proper legal descriptions of the lands acquired.
- (4) The CONSULTANT shall make such surveys as are necessary to accomplish the Services under this CONTRACT in accordance with the MANUAL. Such surveys shall be complete, detailed and as accurate as necessary to develop plans for the design of the PROJECT to usual standards of the MUNICIPALITY and to yield the



data necessary for computation of the quantities of the items of work in the construction of the PROJECT.

a) A conventional survey will be performed within the project limits. Normal features (pavement edges, curb and gutter, sidewalk, driveways, building footprints, light poles, trees, above-ground utilities, etc.) will be performed to facilitate creation of a planimetric map and digital terrain model surface.

b) Establish vertical and horizontal control within the project corridor using conventional survey techniques. The topographic survey will be established in the Wisconsin Coordinate Reference System (WISCRS), Racine County (NAD83) (2011), ground, U.S. Survey Foot. Vertical Coordinates will be NAVD88 (2012), Geoid G18.

(5) Coordinate with Digger's Hotline to have existing utilities marked within the project corridor. Perform topographic survey to collect utility information marked by others.

(6) CONSULTANT Topographic survey shall include:

a) All pertinent information necessary for the design of the roadway and bridge improvements. Survey limits on State Street are approximately 500' in length, from east of Ontario St to east of Wisconsin Ave. Survey will not be collected for the underside, or roadways and parking lots below structures.

b) Limits extend 5 feet beyond existing right-of-way or building face.

c) Roadway cross sections at 50' intervals and are on top of structure only.

d) Collect the Root River surface water elevation at time of survey. Bathymetric survey is not included.

## ***I. SOILS AND SUBSURFACE INVESTIGATIONS***

(1) No subsurface investigations are included.

## ***J. ROAD PLANS***

Section II C (9) in the Standard Provision of the CONTRACT is amended to include the following plans:

- 1) Title Sheet
- 2) Typical Cross Sections and General Notes
- 3) Project Overview – Single sheet schematic drawing
- 4) Construction Details
- 5) Removal Plan (included in plan details)
- 6) Plan Details (including roadway elements and geometric layouts)
- 7) Pavement Grades (included on plan details)
- 8) Erosion Control
- 9) Permanent Signing Plan
- 10) Lighting Plan
- 11) Pavement Marking Plan
- 12) Traffic Control Plan

- 13) Detour Plan
- 14) Pedestrian Detours
- 15) Alignment Plan
- 16) Miscellaneous Quantities

## **K.     STRUCTURE PLANS**

- (1)     Prepare a Structure Survey Report, which includes a discussion of structure sizing, in accordance with the MANUAL. The completed preliminary plan shall show the structure plan, elevation, and typical cross section, and all pertinent data shall appear on the first sheet(s) of the completed structure plans. Four prints of this plan and the Structure Survey Report shall be submitted to the MUNICIPALITY for review. The MUNICIPALITY will review this preliminary plan and the Structure Survey Report and return one print to the CONSULTANT showing requested revisions, if any.
- (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 with three sets of prints of such plans for review and examination.
- (5)     Submit three copies 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)     When the plans for structures are to be prepared by others, the MUNICIPALITY and the CONSULTANT(S) shall provide each other with the necessary pertinent information to effect the proper correlation between the Road Plans and the Structure Plans.
- (9)     Furnish such other pertinent information and data with respect to the plans and design as the MUNICIPALITY may request.

## **L. PLATS**

- (1) Prepare Right-of-Way Plats in accordance with the MANUAL. 4 parcels front State Street within the project corridor. It is assumed that four (4) of these parcels will require Temporary Limited Easements as a result of the proposed improvements. The project plat will include a title sheet, schedule of land and interests required, overview sheet and detail sheets.
- (2) The CONSULTANT shall obtain title searches and title updates, necessary to determine the existing right of way, approximate property lines, existing easements, and current ownership as listed in the title reports for the PROJECT. Existing easement will only be plotted for parcels that have an acquisition easement. It is estimated that 4 title searches are required.
- (3) Legal Descriptions shall be provided for all individual parcels of land to be acquired as Right of Way or Temporary Limited Easement for the PROJECT. Descriptions shall be by metes and bounds in accordance with the provisions as set forth in the MANUAL, or in the case of platted property by suitable reference to the platted data. For all unplatted property the descriptions shall be referenced to and tied into the pertinent section or quarter section corners.
- (4) The CONSULTANT shall prepare the descriptions in line item format using MS Word software and provide an electronic copy to the MUNICIPALITY.
- (5) Field locate and temporarily mark the new right of way boundaries in a manner which will facilitate the appraisal of all affected parcels.
- (6) Provide on the Right-of-Way Plat, point numbers for all new right-of-way points to be monumented and all existing right-of-way points. An electronic e-mail file with point numbers in SDMS format, in ground coordinates, is to be provided to the REGION.
- (7) Changes on the R/W plat that occur following the initial relocation order (excluding hardship or protective purchase) are to be anticipated and are part of this contract including up to one plat revision.

## **M. HIGHWAY SYSTEM CHANGES: Not Included**

## **N. TRAFFIC: Not Included**

## **O. SERVICES PROVIDED BY THE MUNICIPALITY**

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

1. Mailing list for public involvement meeting.
2. Existing/as-built roadway and structure plans, as available
3. Real estate acquisitions, if required.

**P. SERVICES DURING BIDDING PHASE OF THE PROJECT**

CONSULTANT shall provide assistance to MUNICIPALITY and DEPARTMENT during the Bidding and construction Contract Letting phases of the PROJECT after Final P.S. & E. submittal. For purposes of the Scope of Services, CONSULTANT shall perform the following services:

- Assist with addressing questions from prospective bidders, assume six (6) formal responses.

**PROSECUTION AND PROGRESS**

- (1) The MUNICIPALITY 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 Graef-USA, Inc.:
  - a) Design Reports
  - b) Environmental Documentation
  - c) Agency Coordination
  - d) Railroad/Utility Involvements
  - e) Public Involvement
  - f) Meetings
  - g) Surveys
  - h) Road Plans
  - i) Structure Plans – portions related to fixed approach spans 1, 3 and 4
  - j) Plats
- (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 August 1, 2025.

<b>Report Title</b>	<b>Date</b>
Structure Survey Reports	November 2025
Preliminary Structure Plan	November 2025
Initial Project Review	November 2025
Environmental Document	February 2026
Preliminary Road Plan	March 2026
Soils Report	N/A
Pavement Design Report	N/A
Exceptions to Standards Report	N/A
Traffic Study Report	N/A
Design Study Report	March 2026
Slope Intercepts & Preliminary Plat	April 2026
Utility Submittal	May 2026
Right-Of-Way Plat(s)	May 2026
Right-Of-Way Descriptions	May 2026
Acquisition Stage Relocation Plan	N/A
Draft PS&E Road Plans	August 1, 2026
Final Structure Plans	August 1, 2026
Final P.S. & E.	November 1, 2026

Summary of Staff Hours and Direct Labor Costs

PROJECT TOTAL

Project ID: 2290-10-02/72 C Racine B-51-69 Bridge Rehabilitation

Classification		Engineer 7-8		Engineer 6		Engineer 4		Engineer 3		Engineer 1-2		Clerical/Admin			
Avg. Hourly Wage		\$ 111.91		\$ 90.85		\$ 58.85		\$ 47.66		\$ 43.41		\$ 43.55		Total Direct Labor	
Task	Activity Code	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars
Manage Project Scope and Schedule	887	53	\$ 5,931.23	103	\$ 9,357.55	8	\$ 470.80	0	\$ -	0	\$ -	30	\$ 1,306.50	194	\$ 17,066.08
Manage Change	884	4	\$ 447.64	12	\$ 1,090.20	4	\$ 235.40	0	\$ -	4	\$ 173.64	0	\$ -	24	\$ 1,946.88
Manage Consultant Contract	773	0	\$ -	30	\$ 2,725.50	0	\$ -	0	\$ -	0	\$ -	30	\$ 1,306.50	60	\$ 4,032.00
Manage Project Quality	890	28	\$ 3,133.48	84	\$ 7,631.40	0	\$ -	0	\$ -	0	\$ -	0	\$ -	112	\$ 10,764.88
Manage Project Stakeholders	743	4	\$ 447.64	12	\$ 1,090.20	4	\$ 235.40	0	\$ -	0	\$ -	0	\$ -	20	\$ 1,773.24
Design Geometrics and Details	776	2	\$ 223.82	4	\$ 363.40	4	\$ 235.40	0	\$ -	0	\$ -	0	\$ -	10	\$ 822.62
Develop Quantities and Estimates	786	8	\$ 895.28	44	\$ 3,997.40	28	\$ 1,647.80	18	\$ 857.88	40	\$ 1,736.40	0	\$ -	138	\$ 9,134.76
Develop PSE Documents	856	22	\$ 2,462.02	136	\$ 12,355.60	40	\$ 2,354.00	0	\$ -	0	\$ -	0	\$ -	198	\$ 17,171.62
Develop Structure Survey Report	647	48	\$ 5,371.68	306	\$ 27,800.10	66	\$ 3,884.10	66	\$ 3,145.56	188	\$ 8,161.08	0	\$ -	674	\$ 48,362.52
Design Structure	656	128	\$ 14,324.48	758	\$ 68,864.30	890	\$ 52,376.50	492	\$ 23,448.72	856	\$ 37,158.96	0	\$ -	3124	\$ 196,172.96
Manage Post-PSE Though Let	790	4	\$ 447.64	24	\$ 2,180.40	0	\$ -	0	\$ -	0	\$ -	0	\$ -	28	\$ 2,628.04
														0	\$ -
														0	\$ -
														0	\$ -
TOTAL:		301	\$ 33,684.91	1513	\$ 137,456.05	1044	\$ 61,439.40	576	\$ 27,452.16	1088	\$ 47,230.08	60	\$ 2,613.00	4582	\$ 309,875.60

Detailed Hours Work Up

PROJECT TOTAL

Project ID: 2290-10-02/72 C Racine B-51-69 Bridge Rehabilitation

Labor Hour Summary

Task	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Manage Project Scope and Schedule	53	103	8	0	0	30	194
Manage Change	4	12	4	0	4	0	24
Manage Consultant Contract	0	30	0	0	0	30	60
Manage Project Quality	28	84	0	0	0	0	112
Manage Project Stakeholders	4	12	4	0	0	0	20
Design Geometrics and Details	2	4	4	0	0	0	10
Develop Quantities and Estimates	8	44	28	18	40	0	138
Develop PSE Documents	22	136	40	0	0	0	198
Develop Structure Survey Report	48	306	66	66	188	0	674
Design Structure	128	758	890	492	856	0	3124
Manage Post-PSE Though Let	4	24	0	0	0	0	28
							0
TOTAL:	301	1513	1044	576	1088	60	4582

Labor Hour Breakdown

Manage Project Scope and Schedule	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Internal PM shedule/progress/resource allocation, etc	30	60				30	120
General Proj Design Mtgs via Teleconf (assume monthly until PS&E)	15	15					30
Preliminary Scope Review Mtg (virtual)	2	6	2				10
TMP Review Mtgs (assume 2 virtual mtgs)		4					4
60% Plan Review Mtg (virtual) Pre-DSR	2	6	2				10
90% Plan Review Mtg - Pre PS&E (Virtual)	2	6	2				10
Pre-Construction Conference (Virtual)	2	6	2				10
							0
TOTAL:	53	103	8	0	0	30	194

Manage Change	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Semi Annual Estimate Updates/program rebalance	4	12	4		4		24
							0
							0
TOTAL:	4	12	4	0	4	0	24

Manage Consultant Contract	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Prep & Review Invoices, Prog Rpts, Subconsult Docs		30				30	60
							0
							0
TOTAL:	0	30	0	0	0	30	60

Detailed Hours Work Up

Manage Project Quality	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
QC/QA Reviews Reports, 30%, 60%, 90%, & PSE Docs	20	60					80
Review Subconsultant Submittals	8	24					32
							0
TOTAL:	28	84	0	0	0	0	112

Manage Project Stakeholders	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Prep & Attend LOM meeting (Virtual)	2	6	2				10
Prep & Attend PI Mtg (Virtual) 1 meeting assumed	2	6	2				10
							0
TOTAL:	4	12	4	0	0	0	20

Design Geometrics and Details	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Design Study Report - Assist sub with DSR	2	4	4				10
							0
TOTAL:	2	4	4	0	0	0	10

Develop Quantities and Estimates	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Quantity and Cost Calcs and Docs Structural/Architectural	4	20	16		40		80
Quantity and Cost Calcs and Docs Mech	2	12	4	8			26
Quantity and Cost Calcs and Docs Elec	2	12	8	10			32
							0
TOTAL:	8	44	28	18	40	0	138

Develop PSE Documents	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
General/Struct Special Provisions	10	40	40				90
Mechanical Special Provisions	4	40					44
Electrical Special Provisions	4	40					44
Assist sub with PSE Docs, Submittals & Reviews	4	16					20
							0
TOTAL:	22	136	40	0	0	0	198

Develop Structure Survey Report	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Inspection Preparation	4	16	4	4	8		36
Scope Verification Field Inspection SM&E (pre 30%)	8	46	18	18	8		98
Strain Gauge Balance Testing		8			8		16
Strain Gauge Balance Report	2	40			8		50
Inspection Scoping Report	20	120	24	24	60		248
Prelim Plans General, Struct, Architectural	4	36			80		120
Prelim Plans for approach spans by subconsultant							
Preilim Plans Mechanical	4	16	20				40
Prelim Plans Electrical	4	16		20			40
Prepare Structure Survey Report (SSR)	2	8			16		26
							0
TOTAL:	48	306	66	66	188	0	674



Detailed Hours Work Up

Design Structure	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Structural & Architectural							
GPE, General Notes, Typ Sections (4 sheets)	4	16			24		44
Approach spans by subconsultant							
Overlay bascule concrete deck (1 sheet)	4	4			20		28
Replace Open Steel Grid Deck (3 Sheets & Calcs)	8	16	27		76		127
Remove Purlins and Replace Bascule Stringers (3 Sheets & Calcs)	8	16	27		76		127
Replace Bascule Sidewalks & Curbs (2 sheets)	2	8	20		40		70
Replace lateral bracing (2 sheets)	2	8	8		20		38
Bascule Girder & Floorbeam steel repairs (4 sheets & Calcs)	4	16	40		80		140
Minor railing repairs, assuming railing can remain (1 sheet)	1	6	8		20		35
Replace sidewalk rear and longitudinal breaks & seals (4 sheets)	4	10			60		74
Repair sidewalk support beams at connection to rack frame (2 sheets)	2	8	8		20		38
Repair/replace steel rack column bases (1 sheet)	1	6	8		40		55
Remove pop-up barrier and repair rest pier (2 sheets)	2	8	8		20		38
New traffic barrier gate supports (2 sheets & Calcs)	8	32	40		60		140
New rest bearings (2 sheets)	4	20	20		20		64
New shielding system for bearings and/or span locks (1 sheets)	4	20			20		44
Concrete Substructure epoxy injection crack sealing (2 sheets)	2	8			20		30
Concrete Substructure Surface Repairs (4 sheets)	4	8			40		52
Delineation Plan for Cleaning and Painting (1 sheet)		4			20		24
Operator House repoint masonry (1 sheets)	2	8			20		30
Operator House replace window glazing, rebates & sealant (1 sheets)	2	8			20		30
Operator House miscellaneous repairs (2 sheets)	2	8			40		50
Counterweight Re-balancing Computations	2	8	20		60		90
Counterweight Balance Modifications (1 sheet)	2	4	16		20		42
Load Rating and Analysis (Bascule Span)	2	24	120				146
Struct Coord with Mech/Elec	4	8			12		24
Plan in Hand Field Review (after 90% before final)	8	8			8		24
Mechanical							
Mech GPE & Notes & Scope (1 sheet)	1	16	40				57
Power calculations	1	10	20				31
Shafts and Gearing clean and lubricate (1 sheet)	1	10	20				31
Rehab/Replace Machinery & Motor Brakes (2 sheets)	2	60	100				162
Investigate Toe Lock removal (research and calculations)	8	30	40				78
Replace or Remove Toe Locks (1 sheet)	2	20	40				62
Replace Rear Locks (2 sheets)	2	60	100				162
Rehabilitate Tracks & Treads (2 sheets)	8	60	100				168
Misc Mech Details (2 sheets)	2	20	60				82
Electrical							
Elect GPE & Notes & Scope (2 sheets)	1	4		12			17
Elect Symbols & Legends (1 Sheet)		2		12			14
Maintain and Adjust Limit Switches (1 sheet)	1	4		16			21
New Traffic Barrier Gate (1 sheets)	2	8		32			42
New Traffic Warning Gates (2 sheets)	2	8		16			26
Control modifications for New Barrier Gate (2 sheets)	1	8		32			41
New Submarine Cable (1 sheets)	1	8		16			25
Sump pump GFI receptacle replacement (1 sheets)	1	4		8			13
Lighting repairs (2 sheets)		4		8			12
Misc Elect Details (2 sheets)		20		60			80
Remote operations study	2	40		160			202
Remote operations modifications at State St (2 sheets)		20		40			60
CCTV and cameras at State St (1 sheets)	1	16		20			37
Remote operations modifications at Main St (2 sheets)		20		40			60
Monitor details at Main St (1 sheets)	1	16		20			37
							0
TOTAL:	128	758	890	492	856	0	3124

Detailed Hours Work Up

Manage Post-PSE Though Let	Engr. 7-8	Engr. 6	Engr. 4	Engr. 3	Engr. 1-2	Clerical Admin	Total
Questions, Issues & RFI During Bidding	4	24					28
							0
TOTAL:	4	24	0	0	0	0	28

**Consultant Direct Labor Rates****Project ID: 2290-10-02/72 C Racine B-51-69 Bridge Rehabilitation**

Employee No. (a)	Classification (b)	Current Rate (c)	% Pay Increase (d)	Pay Rate (e) July 2025	Pay Rate (f) July 2026	% Work at Current Rate	% Work at Increased Rate (e)	% Work at Increase d Rate (f)	Weighted Average Hourly Rate (j)
*	Engineer 7-8	\$ 108.38	2.7%	\$ 111.31	\$ 114.31	0%	80%	20%	\$ 111.91
*	Engineer 6	\$ 87.99	2.7%	\$ 90.36	\$ 92.80	0%	80%	20%	\$ 90.85
*	Engineer 4	\$ 56.99	2.7%	\$ 58.53	\$ 60.11	0%	80%	20%	\$ 58.85
*	Engineer 3	\$ 46.16	2.7%	\$ 47.41	\$ 48.69	0%	80%	20%	\$ 47.66
*	Engineer 1-2	\$ 42.04	2.7%	\$ 43.18	\$ 44.34	0%	80%	20%	\$ 43.41
*	Clerical/Admin	\$ 42.18	2.7%	\$ 43.32	\$ 44.49	0%	80%	20%	\$ 43.55

Anticipated Contract Start Date: 8/1/2025Contract Completion Date: 2/9/2027Dates of Increase: 7/1/2025, 7/1/2026

\* See Consultant Weighted Average Direct Labor Rates

**Consultant Weighted Average Direct Labor Rates****2290-10-02/72****C Racine B-51-69 Bridge Rehabilitation****Classification:****Engineer 7-8**

Employee No. (a)	Current Rate (b)	Percent Contribution (c)	(b*c)
5929	\$ 108.90	96.00%	\$ 104.54
5834	\$ 96.10	2.00%	\$ 1.92
2405	\$ 95.66	2.00%	\$ 1.91
TOTAL		100.00%	\$ 108.38

**Classification:****Engineer 6**

Employee No. (a)	Current Rate (b)	Percent Contribution (c)	(b*c)
6361	\$ 87.00	60.00%	\$ 52.20
5895	\$ 88.96	20.00%	\$ 17.79
5648	\$ 89.97	20.00%	\$ 17.99
TOTAL		100.00%	\$ 87.99

**Classification:****Engineer 4**

Employee No. (a)	Current Rate (b)	Percent Contribution (c)	(b*c)
6102	\$ 56.81	10.00%	\$ 5.68
6385	\$ 61.16	60.00%	\$ 36.70
6070	\$ 46.38	20.00%	\$ 9.28
5622	\$ 53.39	10.00%	\$ 5.34
TOTAL		100.00%	\$ 56.99

**Classification:****Engineer 3**

Employee No. (a)	Current Rate (b)	Percent Contribution (c)	(b*c)
			\$ -
		0.00%	\$ -
6443	\$ 46.16	100.00%	\$ 46.16
TOTAL		100.00%	\$ 46.16

**Classification:****Engineer 1-2**

Employee No. (a)	Current Rate (b)	Percent Contribution (c)	(b*c)
6154	\$ 40.12	20.00%	\$ 8.02
6400	\$ 42.52	80.00%	\$ 34.02
TOTAL		100.00%	\$ 42.04

**Classification:****Clerical/Admin**

Employee No. (a)	Current Rate (b)	Percent Contribution (c)	(b*c)
5902	\$ 42.18	100.00%	\$ 42.18
			\$ -
TOTAL		100.00%	\$ 42.18

**Fee Computation Summary by Engineering Task****PROJECT TOTAL****Project ID:****2290-10-02/72****C Racine B-51-69 Bridge Rehabilitation**

Task	Activity Code	Direct Labor Costs	Overhead Costs	Indirect Rate to Compute Fixed Fee (150%)	Direct Expenses	Total
			<b>140.09%</b>	<b>8.75%</b>		
Manage Project Scope and Schedule	887	\$ 17,066.08	\$ 23,907.87	\$ 3,733.21		\$ 44,707.16
Manage Change	884	\$ 1,946.88	\$ 2,727.38	\$ 425.88		\$ 5,100.14
Manage Consultant Contract	773	\$ 4,032.00	\$ 5,648.43	\$ 882.00		\$ 10,562.43
Manage Project Quality	890	\$ 10,764.88	\$ 15,080.52	\$ 2,354.82		\$ 28,200.22
Manage Project Stakeholders	743	\$ 1,773.24	\$ 2,484.13	\$ 387.90		\$ 4,645.27
Design Geometrics and Details	776	\$ 822.62	\$ 1,152.41	\$ 179.95		\$ 2,154.98
Develop Quantities and Estimates	786	\$ 9,134.76	\$ 12,796.89	\$ 1,998.23		\$ 23,929.87
Develop PSE Documents	856	\$ 17,171.62	\$ 24,055.72	\$ 3,756.29		\$ 44,983.63
Develop Structure Survey Report	647	\$ 48,362.52	\$ 67,751.05	\$ 10,579.30		\$ 126,692.88
Design Structure	656	\$ 196,172.96	\$ 274,818.70	\$ 42,912.84	\$ 8,026.00	\$ 521,930.49
Manage Post-PSE Though Let	790	\$ 2,628.04	\$ 3,681.62	\$ 574.88		\$ 6,884.54
<b>TOTAL:</b>		<b>\$ 309,875.60</b>	<b>\$ 434,104.73</b>	<b>\$ 67,785.29</b>	<b>\$ 8,026.00</b>	<b>\$ 819,791.62</b>

**Home Office Overhead Rate:****140.09%****Percent Fixed Fee:****8.75%****Indirect Rate to Compute Fixed Fee:****150.00%**

**Direct Expenses by Item****Project ID: 2290-10-02/72 C Racine B-51-69 Bridge Rehabilitat**

Item	Unit Amount	Unit Type	Rate	Total Expenses
<b>M&amp;E Field Verification Inspection (Pre 30% )</b>				
Flights - Rnd Trip NY to MKE - (4 people)	4	per Trip	\$ 750.00	\$ 3,000.00
Personal Vehicle M&E to Airport Rnd Trip (4 people)	200	per Mile	\$ 0.700	\$ 140.00
Airport Parking - NY - (4 people @ 3 days M&E Insp)	12	per Day	\$ 35.00	\$ 420.00
Car Rental (one car M&E Insp)	3	per Day	\$ 100.00	\$ 300.00
Lodging (4 people @ 2 nights M&E Insp)	8	per Day	\$ 107.00	\$ 856.00
Meals (4 people @ 2 days M&E Insp)	8	per Day	\$ 59.00	\$ 472.00
Strain Gauge Testing Misc Consumables (tape, wire, etc)	1	LS	\$ 200.00	\$ 200.00
Strain Gauge Testing Consumable (Cable Reel)	1	EACH	\$ 300.00	\$ 300.00
Strain Gauge Testing Consumables (Gauges)	12	EACH	\$ 100.00	\$ 1,200.00
Strain Gauge Testing Equipment Shipping	1	LS	\$ 200.00	\$ 200.00
Misc Mech Cleaning Supplies (WD-40, brake cleaner, rags, etc.)	1	LS	\$ 100.00	\$ 100.00
<b>Structural Field Verification Inspection (Pre 30%)</b>				
Personal Vehicle use (Rnd trip from MKE)	30	per Mile	\$ 0.70	\$ 21.00
Personal Vehicle use (Rnd trip from Chi)	75	per Mile	\$ 0.70	\$ 52.50
Meals (3 people @ 2 days)	6	per Day	\$ 59.00	\$ 354.00
<b>Plan in Hand Field Review</b>				
Personal Vehicle use (Rnd trip from MKE)	30	per Mile	\$ 0.70	\$ 21.00
Personal Vehicle use (Rnd trip from Chi)	75	per Mile	\$ 0.70	\$ 52.50
Meals (3 people @ 1 days)	3	per Day	\$ 59.00	\$ 177.00
<b>In-Person Meetings (Assume one person 2 days)</b>				
Personal Vehicle use (2 Rnd trips from MKE)	60	per Mile	\$ 0.70	\$ 42.00
Meals (1 person @ 2 days)	2	per Day	\$ 59.00	\$ 118.00
				\$ -
Subtotal				\$8,026.00
<b>TOTAL</b>				\$8,026.00

NY = New York MKE = Milwaukee Chi = Chicago

M&amp;E = Mechanical &amp; Electrical Engineers

RT= Round Trip

### **Consultant Contract Total Fee Computation**

**Project ID: 2290-10-02/72 C Racine B-51-69 Bridge Rehabilitation**

Project ID	2290-10-02/72			Total for Contract
Number of Staff Hours	4582			4582
Total Direct Labor	\$ 309,875.60			\$ 309,875.60
Total Overhead Costs	\$ 434,104.73			\$ 434,104.73
Fixed Fee/Profit	\$ 67,785.29			\$ 67,785.29
Direct Expenses	\$ 8,026.00			\$ 8,026.00
Subtotal	\$ 819,791.62	\$ -	\$ -	\$ 819,791.62
Graef	\$ 421,448.96			\$ 421,448.96
Subcontract 2				\$ -
Subcontract Subtotal	\$ 421,448.96	\$ -	\$ -	\$ 421,448.96
TOTAL COST	\$ 1,241,240.58	\$ -	\$ -	\$ 1,241,240.58

**Company Wide Overhead Rate:** 140.09% **Percent Fixed Fee:** 8.75%

**Indirect Rate to Compute Fixed Fee:** 150.00%



The Avenue  
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414 / 259 1500  
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June 3, 2025

Mr. Michael Delemont  
Hardesty & Hanover  
313 N Plankinton Ave, Suite 207  
Milwaukee, WI 53203

SUBJECT: ID 2290-10-02  
C Racine, State St  
Bridge over Root River (B-51-0069)

Dear Mr. Delemont:

We are very pleased to provide you with this proposal for professional services.

This proposal is for WisDOT Project ID 2290-10-02, C Racine, State St, Bridge over Root River (B-51-0069) (Project). It is our understanding that the nature of the Project is a lift bridge rehabilitation project of B-51-0069, State Street Bridge over the Root River.

For this Project, GRAEF proposes to provide the Basic Services as described in Attachment A.

GRAEF will endeavor to perform the Basic Services in accordance with a mutually agreed-upon schedule. The project completion date is June 30, 2027.

GRAEF can provide the following Additional Services for additional compensation as detailed below:

- Details for replacement of railing replacement along the bridge, approaches and segment along Wisconsin Avenue on east side of roadway.

It is our understanding that you will provide the following services, items and/or information:

- Rehabilitation plans for all aspects of the movable portion of the bridge.
- Provide reactions for proposed safety gate and wiring diagram(s) for operation.
- Bridge joint replacement details.

For services including design reports, environmental documentation, agency coordination, public involvement, meetings, surveys, roadway plans, approach structure plans, and plats, subcontracted to GRAEF, the CONSULTANT'S actual cost to GRAEF, based on GRAEF's actual cost up to \$390,327.62, plus a fixed fee of \$31,121.34, not to exceed \$421,448.96

We look forward to working with you on this exciting project. Please call us at (414) 266-9066 if you have any questions regarding this proposal.





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Sincerely,

**Graef-USA Inc.**

A handwritten signature in blue ink, reading "Wyatt A. Rozmenoski".

Wyatt Rozmenoski, PE  
Associate

A handwritten signature in black ink, reading "Andre Ost".

Andre Ost, PE, PTOE  
Principal

X:\ML\2025\20250162\Project Management\Scoping

## **ATTACHMENT A – GRAEF SCOPE OF SERVICES**

### **VI. SPECIAL PROVISIONS**

#### ***SCOPE OF SERVICES***

##### **A. DESIGN REPORTS**

- (1) Request for Exceptions to Design Standards: Not included.
- (2) Encroachment Report: Not included.
- (3) Other Reports:

Prepare the following engineering reports/analyses as directed by the MUNICIPALITY:

##### **a) Complete Street Documentation**

The CONSULTANT shall prepare a Bike and Pedestrian Accommodation memorandum to be included with the Design Study Report for the project according to the MANUAL.

##### **b) TMP**

- 1. The CONSULTANT shall prepare a Transportation Management Plan (TMP) Type 2 for the proposed improvements. The primary elements will consist of developing a Traffic Control Plan (TCP) and a Public Information and Outreach Plan (PIOP) that includes project notification to targeted roadway user groups.
- 2. The development of a traffic operations plan (TOP) and incident management plan (IMP) are not anticipated as part of the TMP and shall be considered "Extra Work" if they are deemed necessary.

##### **c) Design Study Report**

Prepare a Design Study Report (DSR) as set forth in the MANUAL.

##### **B. ENVIRONMENTAL DOCUMENTATION**

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

Prepare a CEC Environmental document for the PROJECT as specified in the MANUAL and Chapter TRANS 400, Wisconsin Administrative Code. Furnish the required number to the MUNICIPALITY for approval.

Prepare an environmental document that evaluates reasonable alternatives to the PROJECT and consider other reasonable actions or activities that may achieve the same or similar goals of the proposed highway PROJECT, including other or additional

transportation alternatives and intermodal opportunities and the alternative of taking no action. Evaluate alternative courses of action based upon a balanced consideration of the environment, public comments, and the need for safe and efficient transportation consistent with local, state, and national environmental goals. Prepare environmental documents that are concise and emphasize significant environmental issues and plausible alternatives. Comply with requirements specified in the MANUAL and TRANS 400, Wisconsin Administrative Code. In the event of a conflict between the MANUAL and TRANS 400, Wisconsin Administrative Code, the administrative rule supersedes.

- (1) Environmental Assessments: Not included.
- (2) Environmental Impact Statements: Not included.
- (3) Agricultural Impact Notice: Not included.
- (4) Section 4(f) Evaluation: Not included.
- (5) Section 6(f) Evaluation: Not included.
- (6) Historical and Archaeological Surveys and Studies: Not included. (Screening list)
- (7) Noise Analysis: Not included.
- (8) Air Quality: Not included.
- (9) Hazardous Materials/Contamination Assessments: Not included.

## **C. AGENCY COORDINATION**

- (1) Section 401 and 402 Certifications: Not included.
- (2) Section 404 Permits: Not included.
- (3) Section 9 and 10 Permits
- (4) Threatened and Endangered (T/E) Species:

Coordinate with the U.S. Fish and Wildlife Services (FWS) in accordance with the MANUAL. Request a T/E species list from the FWS IPAC website. Any coordination associated with T&E indicated by the WDNR will be considered Extra Services.

Coordination to acquire an Incidental Take Authorization (ITA) is not included and will be considered Extra Services.
- (5) Native American Tribes:

Prepare notification email and submit to the DEPARTMENT for review. The DEPARTMENT will submit to Tribes. Correspondence will be sent by the DEPARTMENT.

(6) Federal Aviation Administration:

Complete consultation with FAA for project design engineering requirements in accordance with the MANUAL. Notification for requirement for construction equipment will be considered "Extra Services".

(7) WisDOT – Bureau of Aeronautics:

Initiate consultation with WisDOT-Bureau of Aeronautics via the WisDOT BOA Transportation Project Coordination Form.

(8) Wisconsin Department of Natural Resources:

Complete consultation with the WDNR.

- a) Complete NHI review via WDNR Public Portal for state listed species.
- b) Prepare DNR Project Coordination Request checklist and submit to the DEPARTMENT for review and approval prior to submitting.
- c) Prepare necessary application for Section 401 Certification to evaluate the effects of the PROJECT on water quality, in accordance with the provisions of the Clean Water Act and Chapter TRANS 400, Wisconsin Administrative Code and the MANUAL.
- d) Prepare Transportation Regional General Permit (TCGP).

## **D. RAILROAD/ UTILITY INVOLVEMENTS**

(1) Railroad Negotiations/Agreements: Not included.

(2) Utility Coordination

Perform all utility coordination in accordance with:

- a) The MANUAL
- b) Non-TRANS 220
- c) The WisDOT "Guide to Utility Coordination"
- d) The "Utility Coordination Task List for Design Consultant Contracts" as agreed upon between DEPARTMENT/MUNICIPALITY and CONSULTANT.

(3) The DEPARTMENT/MUNICIPALITY will provide the CONSULTANT with a list of known utilities on the PROJECT and a list of contact personnel for utility coordination. This list is not warranted to be complete, but is furnished to assist the CONSULTANT. Verify and update the list.

(4) 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 that will allow it to meet its planned utility coordination schedule.

- (5) Utility Negotiations/Agreements: Not included.

## **E. PUBLIC INVOLVEMENT**

- (1) Public Involvement Meetings:

- (a) Conduct or assist the MUNICIPALITY in holding one public involvement meeting(s) 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.

- (2) Formal Public Hearing: Not included.

- (3) Open Forum Public Hearing: Not included.

- (4) Project Mailings, Newsletters:

- (a) The MUNICIPALITY will prepare a pre-formatted database for project mailings, newsletters or any contact lists.
- (b) The CONSULTANT will print and mail project notification letters to notify property owners of the PROJECT and upcoming field data collection for environmental purposes, survey and other design purposes. The mailing would include approximately 20 adjacent properties.
- (c) The CONSULTANT will print and mail the public involvement meeting newsletters with information provided by the CONSULTANT. The CONSULTANT shall prepare invitations in the newsletter format for the public involvement meeting. The mailing would include approximately 20 adjacent properties.

## **F. MEETINGS**

- (1) Attend or hold a virtual Operational Planning Meeting to discuss the organization and processing of the Services under this CONTRACT.
- (2) A 30% plan review meeting with the MUNICIPALITY and the DEPARTMENT.
- (3) A Final Plan Review Meeting with the MUNICIPALITY shall be held approximately 45 - 60 days ahead of the P.S. & E. submittal date.
- (4) Attend the pre-construction conference as scheduled by the MUNICIPALITY.
- (5) Eighteen meeting(s) shall be held to plan, review, and coordinate the PROJECT with the MUNICIPALITY'S staff.
- (6) Conduct one virtual coordination meeting(s) with utilities having facilities on the PROJECT.
- (7) Conduct one field review meeting in combination with the SSR site visit.

## **G. LOCATING: *Not Included***

## **H. SURVEYS**

- (1) Locate the necessary section corners for the right-of-way plat. It is estimated that up to 7 section corners need to be located and established and tied to Racine County coordinates. Do not apply for reimbursement from the applicable county for these costs.
- (2) Conduct surveys that provide information necessary for the preparation of plats and acquisition of rights of way and property. All such information shall be provided in an electronic file in accordance with the MANUAL.
- (3) Tie surveys to section corners, quarter section corners, and to street lines or block corners in platted areas. Ties shall be in sufficient detail to permit the preparation of proper legal descriptions of the lands acquired.
- (4) The CONSULTANT shall make such surveys as are necessary to accomplish the Services under this CONTRACT in accordance with the MANUAL. Such surveys shall be complete, detailed and as accurate as necessary to develop plans for the design of the PROJECT to usual standards of the MUNICIPALITY and to yield the data necessary for computation of the quantities of the items of work in the construction of the PROJECT.
  - a) A conventional survey will be performed within the project limits. Normal features (pavement edges, curb and gutter, sidewalk, driveways, building

footprints, light poles, trees, above-ground utilities, etc.) will be performed to facilitate creation of a planimetric map and digital terrain model surface.

- b) Establish vertical and horizontal control within the project corridor using conventional survey techniques. The topographic survey will be established in the Wisconsin Coordinate Reference System (WISCRS), Racine County (NAD83) (2011), ground, U.S. Survey Foot. Vertical Coordinates will be NAVD88 (2012), Geoid G18.
- (1) Coordinate with Digger's Hotline to have existing utilities marked within the project corridor. Perform topographic survey to collect utility information marked by others.
  - (2) CONSULTANT Topographic survey shall include:
    - a) All pertinent information necessary for the design of the roadway and bridge improvements. Survey limits on State Street are approximately 500' from east of Ontario St to east of Wisconsin Ave. Survey will not be collected for the underside, or roadways and parking lots below structures.
    - b) Limits extend 5 feet beyond existing right-of-way or building face.
    - c) Roadway cross sections at 50' intervals and are on top of structure only.
    - d) Collect the Root River surface water elevation at time of survey. Bathymetric survey is not included.

## ***I. SOILS AND SUBSURFACE INVESTIGATIONS: Not Included***

## ***J. ROAD PLANS***

Section II C (9) in the Standard Provision of the CONTRACT is amended to include the following plans:

- 1) Title Sheet
- 2) Typical Cross Sections and General Notes
- 3) Project Overview – Single sheet schematic drawing
- 4) Construction Details
- 5) Removal Plan (included in plan details)
- 6) Plan Details (including roadway elements and geometric layouts)
- 7) Pavement Grades (included on plan details)
- 8) Erosion Control
- 9) Permanent Signing Plan
- 10) Lighting Plan
- 11) Pavement Marking Plan
- 12) Traffic Control Plan
- 13) Detour Plan
- 14) Pedestrian Detours
- 15) Alignment Plan
- 16) Miscellaneous Quantities

Roadway limits on State Street are approximately 500' from east of Ontario St to east of Wisconsin Ave. No roadway improvements are included outside of the fixed approach structures. No curb ramps are included for replacement with the project.

Lighting Plan shall include the replacement of street lighting impacted by the bridge rehabilitation.

Bridge gates to be replaced as a part of the project. Electrical design to be completed by others.

Traffic Control – Bridge anticipated to be closed during construction. Detours will be provided for vehicular traffic, as well as pedestrians.

## **K. STRUCTURE PLANS**

### **(1) General**

- a. Assist PRIME CONSULTANT to prepare a Rehabilitation Structure Survey Report, in accordance with the MANUAL for B-51-69.
- b. Prepare plans for bridge approach spans 1, 3 and 4. Plans 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.
- c. 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.
- d. When the plans for a structure have been completed the PRIME CONSULTANT shall furnish the MUNICIPALITY with three sets of prints of such plans for review and examination.
- e. Submit electronic copies 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.
- f. Plans will be subject to review and examination by the MUNICIPALITY. Such review and examination may be made on the site of the PROJECT.
- g. Along with the plans for structures submit one electronic copy of the design computations for the MUNICIPALITY'S review and permanent file.
- h. When the plans for structures are to be prepared by others, the MUNICIPALITY and the CONSULTANT(S) shall provide each other with the necessary pertinent



information to effect the proper correlation between the Road Plans and the Structure Plans.

- i. The structure general plan and elevation view, showing both moveable span and fixed spans of the bridge will be developed by the PRIME CONSULTANT.
- (2) The following scope of work pertains to the bridge fixed approach spans 1, 3 and 4.
- a. Prepare an overlay alternative report for review by the MUNICIPALITY.
  - b. Prepare the final bridge overlay plan. The complete final plan shall show the structure plan, typical cross section, and all pertinent data shall appear on the first sheet(s) of the completed structure plans.
  - c. The CONSULTANT shall perform load rating calculations to update the inventory, operating and special permit vehicle ratings for the structure. Per section 45.3.2 of the LRFD WisDOT Bridge Manual, the existing structures will be rating by the Load Factor Rating (LFR) method. The interior and exterior prestressed concrete girders at west approach span 1 will be checked and load rating calculated. Interior slab strip at the east approach spans 3 and 4 will be checked and the load rating calculated.
  - d. Plans will indicate ostensible repair areas and locations.
  - e. Per section 40.8 of the Wisconsin LRFD Bridge manual, all new components will be designed using the LRFD design specifications.
  - f. Plans will include nominal slab or deck repair quantities based on thermography reports/field observations/existing inspections. It is anticipated that localized full depth slab repairs will be used to address the wide longitudinal cracks at the east approach span(s).
  - g. Overlay plans will not include profiles or elevations. Approximate existing grade on structure will remain.
  - h. Increasing the load rating is not part of this contract. Structural design for retrofits to increase structural capacity will be considered additional services.
  - i. Plans will include details for localized widening of the deck and sidewalk for mounting the proposed overhead barrier gate at west approach span 1. Plans will include details for localized modification of existing railing to accommodate proposed overhead barrier.
  - j. Replacement of the existing railing is not part of this contract. Existing railing replacement will be considered additional services.

## **L. PLATS**

- (1) Prepare Right-of-Way Plats in accordance with the MANUAL. 4 parcels front State Street within the project corridor. It is assumed that four (4) of these parcels will

require Temporary Limited Easements as a result of the proposed improvements. The project plat will include a title sheet, schedule of land and interests required, overview sheet and detail sheets.

- (2) The CONSULTANT shall obtain title searches and title updates, necessary to determine the existing right of way, approximate property lines, existing easements, and current ownership as listed in the title reports for the PROJECT. Existing easement will only be plotted for parcels that have an acquisition easement. It is estimated that 4 title searches are required.
- (3) Legal Descriptions shall be provided for all individual parcels of land to be acquired as Right of Way or Temporary Limited Easement for the PROJECT. Descriptions shall be by metes and bounds in accordance with the provisions as set forth in the MANUAL, or in the case of platted property by suitable reference to the platted data. For all unplatted property the descriptions shall be referenced to and tied into the pertinent section or quarter section corners.
- (4) The CONSULTANT shall prepare the descriptions in line item format using MS Word software and provide an electronic copy to the MUNICIPALITY.
- (5) Field locate and temporarily mark the new right of way boundaries in a manner which will facilitate the appraisal of all affected parcels.
- (6) Provide on the Right-of-Way Plat, point numbers for all new right-of-way points to be monumented and all existing right-of-way points. An electronic e-mail file with point numbers in SDMS format, in ground coordinates, is to be provided to the REGION.
- (7) Changes on the R/W plat that occur following the initial relocation order (excluding hardship or protective purchase) are to be anticipated and are part of this contract including up to one plat revision.

***M. HIGHWAY SYSTEM CHANGES: Not Included***

***N. TRAFFIC: Not Included***

***O. SERVICES PROVIDED BY THE MUNICIPALITY***

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

1. Mailing list for public involvement meeting.
2. Existing/as-built roadway and structure plans, as available
3. Real estate acquisitions, if required.

***PROSECUTION AND PROGRESS***

- (1) The MUNICIPALITY 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) 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 operating systems and web browsers, how to obtain system access, and how to use AASHTOWare Project Preconstruction and AASHTOWare Project Estimator to create an engineer's estimate.
- (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 August 1, 2025.

<b>Report Title</b>	<b>Date</b>
Structure Survey Reports	November 2025
Preliminary Structure Plan	November 2025
Initial Project Review	November 2025
Environmental Document	February 2026
Preliminary Road Plan	March 2026
Soils Report	N/A
Pavement Design Report	N/A
Exceptions to Standards Report	N/A
Traffic Study Report	N/A
Design Study Report	March 2026
Slope Intercepts & Preliminary Plat	April 2026
Utility Submittal	May 2026
Right-Of-Way Plat(s)	May 2026
Right-Of-Way Descriptions	May 2026
Acquisition Stage Relocation Plan	N/A
Draft PS&E Road Plans	August 1, 2026
Final Structure Plans	August 1, 2026
Final P.S. & E.	November 1, 2026
LET	

## CONSULTANT DIRECT LABOR RATES

Name or Employee Number	CLASSIFICATION	CURRENT RATE (AS OF APRIL 1, 2025)	DATE OF NEXT SALARY ADJUSTMENT	PAY INCREASE PERCENT ON APRIL 1, 2026	PAY RATE AFTER APRIL 1, 2026	DATE OF NEXT SALARY ADJUSTMENT	PAY INCREASE PERCENT ON APRIL 1, 2027	PAY RATE AFTER APRIL 1, 2027	PERCENT WORK AT 2025 (CURRENT) RATE	PERCENT WORK AT 2026 RATE	PERCENT WORK AT 2027 RATE	WEIGHTED AVERAGE HOURLY RATE FOR THE LENGTH OF THE PROJECT
1916	Structural Engineer	\$50.48	April 1, 2026	2.7	\$51.84	April 1, 2027	2.7	\$53.24	20%	70%	10%	\$51.71
Average	Senior Engineer	\$75.48	April 1, 2026	2.7	\$77.52	April 1, 2027	2.7	\$79.61	20%	70%	10%	\$77.32
Average	Project Engineer	\$54.40	April 1, 2026	2.7	\$55.87	April 1, 2027	2.7	\$57.38	20%	70%	10%	\$55.73
Average	Design Engineer	\$41.35	April 1, 2026	2.7	\$42.46	April 1, 2027	2.7	\$43.61	20%	70%	10%	\$42.35
Average	Surveyor	\$49.28	April 1, 2026	2.7	\$50.61	April 1, 2027	2.7	\$51.98	20%	70%	10%	\$50.48
Average	Technician	\$33.51	April 1, 2026	2.7	\$34.41	April 1, 2027	2.7	\$35.34	20%	70%	10%	\$34.32
1459	Clerical	\$34.50	April 1, 2026	2.7	\$35.43	April 1, 2027	2.7	\$36.39	20%	70%	10%	\$35.34

**CONTRACT COMPLETION DATE:      June 30, 2027**

Project ID: 2290-10-02  
C Racine, State St  
Bridge Over Root River, B-51-0069  
Racine County

Exhibit 1A



## Employee Classification Weighted Average Direct Labor Rates

Classification: Senior Engineer			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
1016	\$ 74.04	70	\$ 51.83
1178	\$ 80.00	25	\$ 20.00
1963	\$ 73.08	5	\$ 3.65
		100	\$ 75.48

Classification: Project Engineer			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
1731	\$ 57.69	70	\$ 40.38
2152	\$ 46.15	25	\$ 11.54
2054	\$ 49.52	5	\$ 2.48
		100	\$ 54.40

Classification: Design Engineer			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
2026	\$ 37.50	50	\$ 18.75
2254	\$ 45.19	50	\$ 22.60
		100	\$ 41.35

Classification: Surveyor			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
0911	\$ 45.25	40	\$ 18.10
1147	\$ 45.75	40	\$ 18.30
0950	\$ 64.42	20	\$ 12.88
		100	\$ 49.28

Classification: Technician			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
2233	\$ 27.50	25	\$ 6.88
1877	\$ 35.50	75	\$ 26.63
		100	\$ 33.51

**Project ID: 2290-10-02**  
**C Racine, State St**  
**Bridge Over Root River, B-51-0069**  
**Racine County**

**Exhibit 1B**



**DIRECT EXPENSES BY ITEM**

ITEM	UNIT	NO. OF UNITS	UNIT COST	TOTAL COST
Survey Mileage	Each	360	0.75	\$270.00
Employee Vehicle Mileage	Each	360	0.70	\$252.00
Database Research	Each	4	1000.00	\$4,000.00
Database Research	Each	4	50.00	\$200.00
TOTAL:				\$4,722.00

Project ID: 2290-10-02  
C Racine, State St  
Bridge Over Root River, B-51-0069  
Racine County

**Exhibit 1C**



## SUMMARY OF STAFF HOURS AND DIRECT LABOR COSTS

Classification:		Project Manager		Senior Engineer		Project Engineer		Design Engineer		Surveyor		Technician		Clerical		Total Direct Labor	
Avg. Hourly Wage:		\$51.71		\$77.32		\$55.73		\$42.35		\$50.48		\$34.32		\$35.34			
TASK	Activity Code	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars
Structure Survey Report	647	8	\$413.68	20	\$1,546.40	72	\$4,012.56	46	\$1,948.10			34	\$1,166.88			180	\$9,087.62
Design Structure	656	12	\$620.52	44	\$3,402.08	118	\$6,576.14	194	\$8,215.90			82	\$2,814.24			450	\$21,628.88
Conduct and Process Existing Field Survey	723			8	\$618.56					84	\$4,240.32	56	\$1,921.92			148	\$6,780.80
Survey Existing and Proposed Right-of-Way	726					2	\$111.46			32	\$1,615.36					34	\$1,726.82
Manage Project Stakeholders	743	22	\$1,137.62			32	\$1,783.36	32	\$1,355.20					8	\$282.72	94	\$4,558.90
Develop Transportation Project Plat	745			8	\$618.56	80	\$4,458.40			8	\$403.84	48	\$1,647.36			144	\$7,128.16
Coordinate Utilities	746	4	\$206.84			64	\$3,566.72									68	\$3,773.56
Analyze Natural Environmental Impact	766					32	\$1,783.36									32	\$1,783.36
Design Erosion Control and Landscaping	768	2	\$103.42			8	\$445.84	12	\$508.20			8	\$274.56			30	\$1,332.02
Environmental Document and Agency Coordination	769	4	\$206.84	8	\$618.56	96	\$5,350.08									108	\$6,175.48
Manage Consultant Contract	773	18	\$930.78											18	\$636.12	36	\$1,566.90
Design Geometrics and Details	776	14	\$723.94	16	\$1,237.12	162	\$9,028.26	216	\$9,147.60			60	\$2,059.20			468	\$22,196.12
Design Drainage	778			2	\$154.64	16	\$891.68	16	\$677.60							34	\$1,723.92
Develop Quantities and Estimates	786	12	\$620.52	12	\$927.84	128	\$7,133.44	124	\$5,251.40			72	\$2,471.04			348	\$16,404.24
Develop Traffic Control and Staging	788			4	\$309.28	72	\$4,012.56	88	\$3,726.80			32	\$1,098.24			196	\$9,146.88
Design Signing and Pavement Marking	819			2	\$154.64	12	\$668.76	24	\$1,016.40			8	\$274.56			46	\$2,114.36
Design Street Lighting	830			16	\$1,237.12	56	\$3,120.88	52	\$2,202.20							124	\$6,560.20
TOTALS		202	\$10,445.42	196	\$15,154.72	1080	\$60,188.40	840	\$35,574.00	124	\$6,259.52	400	\$13,728.00	26	\$918.84	2868	\$142,268.90

Project ID: 2290-10-02

C Racine, State St

Bridge Over Root River, B-51-0069

Racine County

**FEE COMPUTATION SUMMARY BY ENGINEERING TASK**

TASK	Activity Code	Direct Labor Costs	Overhead Costs	Fixed Fee / Profit	Direct Expenses	Total
Structure Survey Report	647	\$9,087.62	\$15,543.47	\$1,987.92		\$26,619.01
Design Structure	656	\$21,628.88	\$36,994.04	\$4,731.32		\$63,354.24
Conduct and Process Existing Field Survey	723	\$6,780.80	\$11,597.88	\$1,483.30		\$19,861.98
Survey Existing and Proposed Right-of-Way	726	\$1,726.82	\$2,953.55	\$377.74		\$5,058.11
Manage Project Stakeholders	743	\$4,558.90	\$7,797.54	\$997.26		\$13,353.70
Develop Transportation Project Plat	745	\$7,128.16	\$12,192.00	\$1,559.29	\$4,200.00	\$25,079.45
Coordinate Utilities	746	\$3,773.56	\$6,454.30	\$825.47		\$11,053.33
Analyze Natural Environmental Impact	766	\$1,783.36	\$3,050.26	\$390.11		\$5,223.73
Design Erosion Control and Landscaping	768	\$1,332.02	\$2,278.29	\$291.38		\$3,901.69
Environmental Document and Agency Coordination	769	\$6,175.48	\$10,562.54	\$1,350.89		\$18,088.91
Manage Consultant Contract	773	\$1,566.90	\$2,680.03	\$342.76		\$4,589.69
Design Geometrics and Details	776	\$22,196.12	\$37,964.24	\$4,855.40		\$65,015.76
Design Drainage	778	\$1,723.92	\$2,948.59	\$377.11		\$5,049.62
Develop Quantities and Estimates	786	\$16,404.24	\$28,057.81	\$3,588.43		\$48,050.48
Develop Traffic Control and Staging	788	\$9,146.88	\$15,644.82	\$2,000.88		\$26,792.58
Design Signing and Pavement Marking	819	\$2,114.36	\$3,616.40	\$462.52		\$6,193.28
Design Street Lighting	830	\$6,560.20	\$11,220.57	\$1,435.04		\$19,215.81
Develop PSE Documents	856	\$8,622.82	\$14,748.47	\$1,886.24		\$25,257.53
Manage Project Scope and Schedule	887	\$4,798.62	\$8,207.56	\$1,049.70	\$522.00	\$14,577.88
TOTALS		\$142,268.90	\$243,336.72	\$31,121.34	\$4,722.00	\$421,448.96

Home Office Indirect Cost Rate of : 1.7104

Assumes Profit of : 8.75

Fixed Fee based on a standard Overhead Rate of : 1.50

Project ID: 2290-10-02

C Racine, State St

Bridge Over Root River, B-51-0069

Racine County



**CONSULTANT CONTRACT TOTAL FEE COMPUTATION**

	<b>Project I.D. 2290-10-02 Base Contract</b>	<b>TOTAL CONTRACT</b>
<b>Number of Staff Hours</b>	<b>2868</b>	<b>2868</b>
Total Direct Labor	\$ 142,268.90	\$ 142,268.90
Total Overhead Costs	\$ 243,336.72	\$ 243,336.72
Fixed Fee / Profit	\$ 31,121.34	\$ 31,121.34
Non-Labor Direct Charges	\$ 4,722.00	\$ 4,722.00
<b>Contract Sub-Total</b>	<b>\$ 421,448.96</b>	<b>\$ 421,448.96</b>
<b>CONTRACT TOTAL COST</b>	<b>\$ 421,448.96</b>	<b>\$ 421,448.96</b>

**Project ID: 2290-10-02****C Racine, State St****Bridge Over Root River, B-51-0069****Racine County****Exhibit 2**

	CONTRACT ESTIMATE OF HOURS AND EXPENSES - GRAEF		Blue Tasks are assigned to Subconsultants																
	I.D. 2290-10-02/72																		
	State Street Bridge																		
	over Root River (B-51-0069)																		
	Local Street															Fixed fee calculated on 150% overhead rate			
	Racine County																		
				Krajnak	Chapman	Barrett													
				Koslo	Rozmenoski	George	Dan Koslo	Owen											
				Wood	Rollins		Brandt	Garcia	Mahnke										
	6/3/2025		Rozmenoski	SENIOR	PROJECT	DESIGN						TOTAL	ID 2703-05-01	ID 2703-05-02	DIRECT LABOR	OVERHEAD	DIRECT	FIXED FEE	
TASK			PM	ENGR	ENGR	ENGR	SURVEYOR	TECH	CLERICAL	FIRM	TOTAL		Bridge over Root River	Bridge over Howe Street					
			P5	P6-P8	P4-P5	P1-P3	T5	T1-T4	CLRCL	EXPENSES	HOURS	COST			COSTS	COSTS	EXPENSES	PROFIT	
	A. PAVEMENT AND SOILS DESIGN																		
X	I. ACTIVITY CODE 208 - DESIGN SOILS & EARTHWORK																		
	a. Soil Borings (Not Included)																		
	b. Geotechnical Report (Not Included)																		
	Subtotal Design Soils & Earthwork (208)																		
X	I. ACTIVITY CODE 277 - PAVEMENT DESIGN STRUCTURE																		
	a. Pavement Design Report with LCCA (Not Included)																		
	Subtotal Pavement Design Structure (277)																		
	B. ENVIRONMENTAL DOCUMENTATION																		
X	I. ACTIVITY CODE 762 -ANALYZE SOCIO-ECONOMIC AND PHYSICAL ENVIRONMENTAL IMPACTS																		
	a. 762.1 Air Quality Analyses (Not Included)																		
	b. 762.2 Conduct Farmland Studies (Not Included)																		
	c. 762.3 Review Econmoic Factors (Not Included)																		
	d. 762.4 Review Community and Residential Issues (Not Included)																		
	e. 762.5 Perform Noise Analysis (Not Included)																		
	Subtotal Analyze Socio-Economic and Physical Environmental Impacts (762)																		
X	II. ACTIVITY CODE 763 - ANALYZE ARCHAEOLOGICAL AND HISTORICAL IMPACT AND TRIBAL CONSULTATION																		
	a. Archaeological Surveys ( Not Included)																		
	b. Historical Surveys and Studies (Not Included)																		
	c. Determination of Eligibility - up to 1 DOE (Not Included)																		
	Subtotal Analyze Archaeological and Historical Impact and Tribal Consultation (763)																		
X	III. ACTIVITY CODE 765 - ANALYZE HAZARDOUS MATERIALS SITE IMPACT																		
	a. Reconnaissance Investigation (Not Included)																		
	b. Phase I - Record Search and Report (Not Included)																		
	c. Phase 2 - Environmental Sampling (through WisDOT Master)																		
	d. Phase 3 - Remediation Plan																		
	Subtotal Analyze Hazardous Materials Site Impact (765)																		
X	IV. ACTIVITY CODE 766 - ANALYZE NATURAL ENVIRONMENTAL IMPACT												100%	0%					
	a. 766.1 Evaluate Impacts on Wetlands (Not Included)																		
	b. 766.2 Evaluate Impacts to rivers, Streams and Floodplains (Not Included)																		
	c. 766.3 Evaluate Impacts to Lakes and Other Open Water (Not Included)																		
	d. 766.4 Evaluate Impacts to Groundwater Wells and Springs (Not Included)																		
	e. 766.5 Evaluate Impacts to Upland Habitat (Not Included)																		
	f. 766.6 Evaluate Impact to Coastal Zones				8						8	\$1,305.93			\$445.84	\$762.56		\$97.53	
	g. 766.7 Evaluate Impacts to Threatened and Endangered Species				12						12	\$1,958.90	\$1,958.90		\$668.76	\$1,143.85		\$146.29	
	h. 766.8 Analyze Drainage and Stormwater Impacts				12						12	\$1,958.90	\$1,958.90		\$668.76	\$1,143.85		\$146.29	
	i. 766.9 Section 4(f) - Parks/Refuges Only																		
	k. 766.10 Section 6(f) and Other Grant Funded Properties (not included)																		
	Subtotal Analyze Natural Environmental Impact (766)				32						32	\$5,223.73	\$3,917.80		\$1,783.36	\$3,050.26		\$390.11	
X	V. ACTIVITY CODE 769 - ENVIRONMENTAL DOCUMENT AND AGENCY COORDINATION												75%	25%					
	a. 769.1 Initial Agency and Tribal Coordination																		
	1. WDNR				8						8	\$1,305.93	\$979.45	\$326.48	\$445.84	\$762.56		\$97.53	
	2. USFWS				16						16	\$2,611.87	\$1,958.90	\$652.97	\$891.68	\$1,525.13		\$195.06	
	3. Native Americans				8						8	\$1,305.93	\$979.45	\$326.48	\$445.84	\$762.56		\$97.53	
	4. BOA/FAA				8						8	\$1,305.93	\$979.45	\$326.48	\$445.84	\$762.56		\$97.53	
	5. USCG				8						8	\$1,305.93	\$979.45	\$326.48	\$445.84	\$762.56		\$97.53	
	b. 769.4 Categorical Exclusion Checklist																		
	1. 769.4 Environmental Document - Type CEC				48						48	\$7,835.60	\$5,876.70	\$1,958.90	\$2,675.04	\$4,575.39		\$585.17	
	2. Section 4f - De Minimis (Not Included)																		
	c. Coordiantion and Review		4	8							12	\$2,417.72	\$1,813.29	\$604.43	\$825.40	\$1,411.76		\$180.56	
	Subtotal Environmental Document and Agency Coordination (769)		4	8	96						108	\$18,088.91	\$13,566.68	\$4,522.23	\$6,175.48	\$10,562.52		\$1,350.91	
	D. UTILITY COORDINATION																		

	CONTRACT ESTIMATE OF HOURS AND EXPENSES - GRAEF																		
	I.D. 2290-10-02/72																		
	State Street Bridge																		
	over Root River (B-51-0069)																		
	Local Street																		
	Racine County																		
X	I. ACTIVITY CODE 746 - COORDINATE UTILITIES												60%	40%					
	a. DT1077 Mailings - Compile Utility Contacts			4					4		\$652.96	\$391.78	\$261.18	\$222.92	\$381.28		\$48.76		
	b. Private Utility Coordination			4					4		\$652.96	\$391.78	\$261.18	\$222.92	\$381.28		\$48.76		
	c. Utility Coordination - Review of Facility Maps			4					4		\$652.96	\$391.78	\$261.18	\$222.92	\$381.28		\$48.76		
	d. Summary of Potential Conflicts			4					4		\$652.96	\$391.78	\$261.18	\$222.92	\$381.28		\$48.76		
	e. Mailing of Approved Utility Relocation Design			4					4		\$652.96	\$391.78	\$261.18	\$222.92	\$381.28		\$48.76		
	f. Review of Work Plans			4					4		\$652.96	\$391.78	\$261.18	\$222.92	\$381.28		\$48.76		
	h. Utility Status Reports			8					8		\$1,305.93	\$783.56	\$522.37	\$445.84	\$762.56		\$97.53		
	i. Utility Special Provision			8					8		\$1,305.93	\$783.56	\$522.37	\$445.84	\$762.56		\$97.53		
	j. 746.3 Plan/Attend/Document Utility Coordination Meeting (1 virtual meeting)	4		4					8		\$1,258.83	\$755.30	\$503.53	\$429.76	\$735.06		\$94.01		
	k. Coordination/Phone Calls regarding work plans			4					4		\$652.96	\$391.78	\$261.18	\$222.92	\$381.28		\$48.76		
	l. On going coordination prior to construction			16					16		\$2,611.87	\$1,567.12	\$1,044.75	\$891.68	\$1,525.13		\$195.06		
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	Subtotal Coordinate Utilities (746)	4		64					68		\$11,053.28	\$6,631.97	\$4,421.31	\$3,773.56	\$6,454.27		\$825.45		
	E. PUBLIC INVOLVEMENT																		
X	I. ACTIVITY CODE 743 - MANAGE PROJECT STAKEHOLDERS												75%	25%					
	a. Public Involvement - PI Plan, Database, Mailings			8				8	16		\$2,134.06	\$1,600.55	\$533.52	\$728.56	\$1,246.13		\$159.37		
	b. Public Involvement Meeting Preparation - Review handouts and mailings	2		8					10		\$1,608.86	\$1,206.65	\$402.22	\$549.26	\$939.45		\$120.15		
	c. Public Involvement Meeting Preparation - Displays	8		8	24				40		\$5,494.85	\$4,121.14	\$1,373.71	\$1,875.92	\$3,208.57		\$410.36		
	d. Pre-Local Officials Meetings (Not Included)																		
	e. Local Officials Meetings (Not Included)																		
	f. Public Involvement Meeting Attendance (3-hour meeting, 2 attendees) - prep and attendance	8		8				\$42.00	16		\$2,559.66	\$1,919.75	\$639.92	\$859.52	\$1,470.12	\$42.00	\$188.02		
	g. PIM Minutes, Follow-Up & Responses, (Summary documentation)	4			8				12		\$1,598.26	\$1,198.70	\$399.57	\$545.64	\$933.26		\$119.36		
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	Subtotal Manage Project Stakeholders (743)	22		32	32			8	42	94	\$13,395.69	\$10,046.77	\$3,348.92	\$4,558.90	\$7,797.53	\$42.00	\$997.26		
	F. PROJECT MANAGEMENT																		
X	I. ACTIVITY CODE 773 - MANAGE CONSULTANT CONTRACT												60%	40%					
	a. ADMINISTRATION ~ 18 months																		
	1. Monthly Invoices ~ 1/2 hr/mnth per project	18						18	36		\$4,589.69	\$2,753.81	\$1,835.88	\$1,566.90	\$2,680.03		\$342.76		
	2. Monthly Progress Report																		
		-----		-----	-----	-----	-----	-----	-----		-----	-----	-----	-----	-----		-----		
	Subtotal Manage Consultant Contract (773)	18						18	36		\$4,589.69	\$2,753.81	\$1,835.88	\$1,566.90	\$2,680.03		\$342.76		
X	II. ACTIVITY CODE 887 MANAGE PROJECT SCOPE AND SCHEDULE												75%	25%					
	a. OPM Meeting	4		4					8		\$1,258.83	\$944.12	\$314.71	\$429.76	\$735.06		\$94.01		
	b. Design Coordination Meetings with Municipality (18 Meetings)	36		18					54		\$8,391.13	\$6,293.35	\$2,097.78	\$2,864.70	\$4,899.78		\$626.65		
	c. Field Review Meetings (1)	4		4				\$42.00	8		\$1,300.83	\$975.62	\$325.21	\$429.76	\$735.06	\$42.00	\$94.01		
	d. 887.4 Prepare/Attend 30% Plan Review Meeting																		
	e. 887.5 Prepare/Attend 60% Plan Review Meeting	4		4				\$42.00	8		\$1,300.83	\$975.62	\$325.21	\$429.76	\$735.06	\$42.00	\$94.01		
	f. 887.6 Prepare/Attend 90% Plan Review Meeting	4		4				\$42.00	8		\$1,300.83	\$975.62	\$325.21	\$429.76	\$735.06	\$42.00	\$94.01		
	g. Pre-Construction Meeting	2		2				\$84.00	4		\$713.42	\$535.07	\$178.36	\$214.88	\$367.53	\$84.00	\$47.01		
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	Subtotal Manage Project Scope and Schedule (887)	54		36				\$210.00	90		\$14,265.87	\$10,699.40	\$3,566.47	\$4,798.62	\$8,207.55	\$210.00	\$1,049.70		
X	III. ACTIVITY CODE 890 - MANAGE PROJECT QUALITY												75%	25%					
	a. 890.2 Prepare/Attend Oversight Meetings																		
	1. Review 30% Project Plan	4		8					12		\$2,417.72	\$1,813.29	\$604.43	\$825.40	\$1,411.76		\$180.56		
	2. Review 60% Project Plan	8		8					16		\$3,023.58	\$2,267.69	\$755.90	\$1,032.24	\$1,765.54		\$225.80		
	3. Review 90% Project Plan	8		16					24		\$4,835.44	\$3,626.58	\$1,208.86	\$1,650.80	\$2,823.53		\$361.11		
	4. Review Special Provisions and Supporting Documents	8		16					24		\$4,835.44	\$3,626.58	\$1,208.86	\$1,650.80	\$2,823.53		\$361.11		
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	Subtotal Manage Project Quality (890)	28		48					76		\$15,112.18	\$11,334.14	\$3,778.05	\$5,159.24	\$8,824.36		\$1,128.58		
	G. SURVEY																		
X	I. ACTIVITY CODE 723 - CONDUCT AND PROCESS EXISTING FIELD SURVEY												75%	25%					
	Project set up and coordination			4					\$270.00	4		\$1,175.93	\$881.95	\$293.98	\$309.28	\$528.99	\$270.00	\$67.66	
	Horizontal & Vertical Control						16	8		24		\$3,170.04	\$2,377.53	\$792.51	\$1,082.24	\$1,851.06		\$236.74	
	Section Corners (Not anticipated)																		
	Topo / DTM (5300' +/-)						56			56		\$8,280.36	\$6,210.27	\$2,070.09	\$2,826.88	\$4,835.10		\$618.38	
	Utilities & Measure Downs / Diggers Hotline		4				8	24		36		\$4,501.52	\$3,376.14	\$1,125.38	\$1,536.80	\$2,628.54		\$336.18	
	Processing						4			4		\$591.45	\$443.59	\$147.86	\$201.92	\$345.36		\$44.17	
	Mapping							24		24		\$2,412.68	\$1,809.51	\$603.17	\$823.68	\$1,408.82		\$180.18	
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	Subtotal Conduct and Process Existing Field Survey (723)		8			84	56		270	148	\$20,131.98	\$15,098.99	\$5,033.00	\$6,780.80	\$11,597.87	\$270.00	\$1,483.31		
	H. ROAD PLANS																		
X	II. ACTIVITY CODE 768 - DESIGN EROSION CONTROL AND LANDSCAPING												100%						
	a. Erosion Control	2		8	12			8		30		\$3,901.69	\$3,901.69		\$1,332.02	\$2,278.29		\$291.38	
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	Subtotal Design Erosion Control and Landscaping (768)	2		8	12			8		30		\$3,901.69	\$3,901.69		\$1,332.02	\$2,278.29		\$291.38	

	CONTRACT ESTIMATE OF HOURS AND EXPENSES - GRAEF		Blue Tasks are assigned to Subconsultants																
	I.D. 2290-10-02/72																		
	State Street Bridge																		
	over Root River (B-51-0069)																		
	Local Street																Fixed fee calculated on 150% overhead rate		
	Racine County																		
	III. ACTIVITY CODE 776 - DESIGN GEOMETRICS AND DETAILS												70%	30%					
	a. Preliminary Geometrics and Documentation																		
	1. 776.1 Determine and Document Design Criteria																		
	2. 776.2 Analyze Existing Geometrics																		
	3. 776.3 Develop Horizontal Alignments	4		4	4					12	\$1,755.03	\$1,228.52	\$526.51	\$599.16	\$1,024.80		\$131.07		
	4. 776.4 Develop Vertical Alignments for Drainage	4		4	8					16	\$2,251.23	\$1,575.86	\$675.37	\$768.56	\$1,314.55		\$168.12		
	5. 776.5 Develop Preliminary Intersection Design																		
	6. 776.6 Develop Preliminary Interchange Design (Not Included)																		
	7. 776.7 Analyze and Document Geometric Alternatives (Not Included)																		
	8. 776.8 Finalize Preliminary Geometrics			40	40		20			100	\$13,502.21	\$9,451.55	\$4,050.66	\$4,609.60	\$7,884.26		\$1,008.35		
	9. 776.9 Create Basic Templates																		
	b. 776.10 Develop Preliminary Surface Models																		
	1. Roadway																		
	2. Intersection																		
	c. 776.24 Design Documentation																		
	1. Encroachment Report (Not Included)																		
	2. Design Justification (Not Included)																		
	3. Roadside Hazard Report (Not Included)																		
	4. Design Study Report	2	4	20	32					58	\$8,443.28	\$5,910.30	\$2,532.98	\$2,882.50	\$4,930.23		\$630.55		
	5. Complete Streets Documentation	2	4	12	12					30	\$4,656.35	\$3,259.45	\$1,396.91	\$1,589.66	\$2,718.95		\$347.74		
	6. Design Exceptions (Not Included)																		
	d. 776.25 Plan Preparation																		
	1. Title Sheet			2	4					6	\$822.68	\$575.88	\$246.80	\$280.86	\$480.38		\$61.44		
	2. General Notes			2	4					6	\$822.68	\$575.88	\$246.80	\$280.86	\$480.38		\$61.44		
	3. Project Overview			2	4					6	\$822.68	\$575.88	\$246.80	\$280.86	\$480.38		\$61.44		
	4. Typical Sections			8	8		8			24	\$3,102.56	\$2,171.79	\$930.77	\$1,059.20	\$1,811.66		\$231.70		
	5. Construction Details			16	16		8			40	\$5,400.88	\$3,780.62	\$1,620.26	\$1,843.84	\$3,153.70		\$403.34		
	6. Plan Details (Includes Removal and Paving Grades)			40	60		16			116	\$15,581.08	\$10,906.76	\$4,674.32	\$5,319.32	\$9,098.16		\$1,163.60		
	7. Signal Gate Details	2	8	8	8					26	\$4,413.11	\$3,089.18	\$1,323.93	\$1,506.62	\$2,576.92		\$329.57		
	8. Pavement Marking and Permanent Signing			4	16		8			28	\$3,441.99	\$2,409.39	\$1,032.60	\$1,175.08	\$2,009.86		\$257.05		
	Subtotal Design Geometrics and Details (776)	14	16	162	216		60			468	\$65,015.76	\$45,511.03	\$19,504.73	\$22,196.12	\$37,964.23		\$4,855.41		
x	IV. ACTIVITY CODE 778 - DESIGN DRAINAGE																		
	a. Drainage/Storm Sewer Design		2	16	16					34	\$5,049.62			\$1,723.92	\$2,948.59		\$377.11		
	Subtotal Design Drainage (778)		2	16	16					34	\$5,049.62			\$1,723.92	\$2,948.59		\$377.11		
x	V. ACTIVITY CODE 313 - ANALYZE TRAFFIC DATA/FORECAST												60%	40%					
	a. Traffic Forecasts (Not Included)																		
	1. Historic Data Review																		
	2. Intersection & ADT Forecast (Year 2027, 2037 & 2047)																		
	Subtotal Analyze Traffic Data/Forecast (313)																		
x	VI. ACTIVITY CODE 647 - STRUCTURE SURVEY REPORT																		
	a. Conduct Site Review		2	8	8					18	\$2,751.29	\$2,751.29		\$939.28	\$1,606.54		\$205.47		
	b. Assist in preparation of SSR	4	4	16	4					28	\$4,619.85	\$4,619.85		\$1,577.20	\$2,697.64		\$345.01		
	c. Preliminary Plan	2	2	8	6		34			52	\$6,224.09	\$6,224.09		\$2,124.88	\$3,634.39		\$464.82		
	d. Preliminary Structure Design		8	30	8					46	\$7,701.50	\$7,701.50		\$2,629.26	\$4,497.09		\$575.15		
	e. New Support Blister concepts for barrier gate	2		10	20					32	\$4,416.33	\$4,416.33		\$1,507.72	\$2,578.80		\$329.81		
	f. QA/QC		4							4	\$905.93	\$905.93		\$309.28	\$528.99		\$67.66		
	Subtotal Structure Survey Report (647)	8	20	72	46		34			180	\$26,619.00	\$26,619.00		\$9,087.62	\$15,543.46		\$1,987.92		
x	VIII. ACTIVITY CODE 656 - DESIGN STRUCTURE																		
	Span 1 prestressed																		
	a. Final Plans	2		8	16		50			76	\$8,620.08	\$8,620.08		\$2,942.86	\$5,033.47		\$643.75		
	b. Final Structure Design		12	24	48					84	\$12,589.95	\$12,589.95		\$4,298.16	\$7,351.57		\$940.22		
	- New support blister for barrier gate plan & sections			6	12					18	\$2,468.04	\$2,468.04		\$842.58	\$1,441.15		\$184.31		
	- New supprt blister for barrier gate design, details and bill of bars	4	12	16	40					72	\$10,897.49	\$10,897.49		\$3,720.36	\$6,363.30		\$813.83		
	- New support blister concrete diaphragm design and details		12	10	20					42	\$6,831.19	\$6,831.19		\$2,332.14	\$3,988.89		\$510.16		
	- New support blister barrier gate anchorage details			4	8					12	\$1,645.37	\$1,645.37		\$561.72	\$960.77		\$122.88		
	- New support blister barrier gate electrical conduit details			4	8					12	\$1,645.37	\$1,645.37		\$561.72	\$960.77		\$122.88		
	- New support blister barrier gate railing details			6	12					18	\$2,468.04	\$2,468.04		\$842.58	\$1,441.15		\$184.31		
	Span 3-4 Slab																		
	a. Final Plans	2		4	10		32			48	\$5,413.31	\$5,413.31		\$1,848.08	\$3,160.96		\$404.27		
	b. Final Structure Design	4	8	36	20					68	\$10,775.40	\$10,775.40		\$3,678.68	\$6,292.01		\$804.71		
	Subtotal Design Structure (656)	12	44	118	194		82			450	\$63,354.24	\$63,354.24		\$21,628.88	\$36,994.04		\$4,731.32		
x	IX. ACTIVITY CODE 786 - DEVELOP QUANTITIES AND ESTIMATES												80%	20%					
	a. 786.1 Preliminary Cost Estimates (30% & 60% Quantities & Estimate)	4	4	40	40		24			112	\$15,416.12	\$12,332.90	\$3,083.22	\$5,263.00	\$9,001.84		\$1,151.28		
	b. 786.2 Earthwork and Summary Tables	4	4	16	8					32	\$5,116.05	\$4,092.84	\$1,023.21	\$1,746.60	\$2,987.38		\$382.07		
	c. Final Cost Estimate, & MQ Tables development	4	4	40	40		24			112	\$15,416.12	\$12,332.90	\$3,083.22	\$5,263.00	\$9,001.84		\$1,151.28		
	d. 786.3 Estimate Justifications			16	20					36	\$5,092.86	\$4,074.29	\$1,018.57	\$1,738.68	\$2,973.84		\$380.34		
	e. 786.4 Final Cost (Estimator/AASTHOWare)			16	16		24			56	\$7,009.34	\$5,607.47	\$1,401.87	\$2,392.96	\$4,092.92		\$523.46		

	CONTRACT ESTIMATE OF HOURS AND EXPENSES - GRAEF		Blue Tasks are assigned to Subconsultants																
	I.D. 2290-10-02/72																		
	State Street Bridge																		
	over Root River (B-51-0069)																		
	Local Street																Fixed fee calculated on 150% overhead rate		
	Racine County																		
	Subtotal Develop Quantities and Estimates (786)		12	12	128	124	72			348	\$48,050.49	\$38,440.39	\$9,610.10	\$16,404.24	\$28,057.82		\$3,588.43		
X	X. ACTIVITY CODE 788 - DEVELOP TRAFFIC CONTROL AND STAGING											90%	10%						
	a. 788.1 Transportation Management Plan (TMP)			4	24	24				52	\$7,800.92	\$7,020.83	\$780.09	\$2,663.20	\$4,555.1400		\$582.58		
	b. 788.3 Detour Plan				8	8				16	\$2,298.33	\$2,068.50	\$229.83	\$784.64	\$1,342.05		\$171.64		
	c. 788.5 Final Traffic Control																		
	1. Detail Traffic Control Sheets - Mainline				8	16		8		32	\$4,094.95	\$3,685.46	\$409.50	\$1,398.00	\$2,391.14		\$305.81		
	2. Mainline Typical Sections				8	16		8		32	\$4,094.95	\$3,685.46	\$409.50	\$1,398.00	\$2,391.14		\$305.81		
	d. 788.6 Pedestrian Staging Details				24	24		16		64	\$8,503.44	\$7,653.10	\$850.34	\$2,903.04	\$4,965.36		\$635.04		
	Subtotal Develop Traffic Control and Staging (788)			4	72	88	32			196	\$26,792.59	\$24,113.33	\$2,679.26	\$9,146.88	\$15,644.83		\$2,000.88		
X	XI. ACTIVITY CODE 819 - DESIGN SIGNING AND PAVEMENT MARKING											60%	40%						
	a. 819.2 Permanent Signing Layout			1	4	8		4		17	\$2,273.96	\$1,364.38	\$909.58	\$776.32	\$1,327.82		\$169.82		
	b. 819.3 Pavement Marking Layout			1	8	16		4		29	\$3,919.32	\$2,351.59	\$1,567.73	\$1,338.04	\$2,288.58		\$292.70		
	Subtotal Design Signing and Pavement Marking (819)			2	12	24	8			46	\$6,193.28	\$3,715.97	\$2,477.31	\$2,114.36	\$3,616.40		\$462.52		
X	XII. ACTIVITY CODE 830 - DESIGN STREET LIGHTING																		
	a. Lighting Design																		
	Kick-off Meeting																		
	Symbols Sheets																		
	Lighting Removal Plans & Continuation of Circuits				8	8				16	\$2,298.33			\$784.64	\$1,342.05		\$171.64		
	Roadway Lighting Plans			6	16	16				38	\$5,955.55			\$2,033.20	\$3,477.59		\$444.76		
	Illumination Calculations and Layout (up to 3 layouts)																		
	Detail Sheets			6	16	16				38	\$5,955.55			\$2,033.20	\$3,477.59		\$444.76		
	Quantities & MQ Sheets				8	8				16	\$2,298.33			\$784.64	\$1,342.05		\$171.64		
	Wiring Diagrams																		
	Fixture Schedule																		
	Specifications																		
	QC Review			4	8	4				16	\$2,708.06			\$924.52	\$1,581.30		\$202.24		
	Incorporate Internal Review Comments																		
	Subtotal Design Street Lighting (830)			16	56	52				124	\$19,215.82			\$6,560.20	\$11,220.58		\$1,435.04		
X	XIII. ACTIVITY CODE 856 - DEVELOP PSE DOCUMENTS											80%	20%						
	a. 856.1 Special Provisions & Proposal		24		20					44	\$6,900.03	\$5,520.02	\$1,380.01	\$2,355.64	\$4,029.09		\$515.30		
	b. 856.2 Construction Time Chart				12					12	\$1,958.90	\$1,567.12	\$391.78	\$668.76	\$1,143.85		\$146.29		
	c. 856.3 Certificate of R/W				2					2	\$326.48	\$261.18	\$65.30	\$111.46	\$190.64		\$24.38		
	d. 856.4 Utility Status Report				2					2	\$326.48	\$261.18	\$65.30	\$111.46	\$190.64		\$24.38		
	e. 856.5 Railroad Coordination (Not Included)																		
	f. 856.6 Governor's Bond (Not Included)																		
	g. 856.7 Highway Work Proposal				4					4	\$652.96	\$522.37	\$130.59	\$222.92	\$381.28		\$48.76		
	h. 856.8 Plan Letter				12					12	\$1,958.90	\$1,567.12	\$391.78	\$668.76	\$1,143.85		\$146.29		
	i. 856.9 News Release				2					2	\$326.48	\$261.18	\$65.30	\$111.46	\$190.64		\$24.38		
	j. 856.11 Region Specific PSE Documents				12					12	\$1,958.90	\$1,567.12	\$391.78	\$668.76	\$1,143.85		\$146.29		
	k. 856.12 C3D Project Data Submittal																		
	l. 856.15 Standard Detail Spreadsheet				4	4				8	\$1,149.16	\$919.33	\$229.83	\$392.32	\$671.02		\$85.82		
	m. 856.16 Prepare E-Plan Submittal				8	16				24	\$3,290.72	\$2,632.58	\$658.14	\$1,123.44	\$1,921.53		\$245.75		
	k. Draft PS&E Submittal			4	8	8				20	\$3,204.26	\$2,563.41	\$640.85	\$1,093.92	\$1,871.04		\$239.30		
	l. Final PS&E Submittal			4	8	8				20	\$3,204.26	\$2,563.41	\$640.85	\$1,093.92	\$1,871.04		\$239.30		
	Subtotal Develop PSE Documents (856)		24	8	94	36				162	\$25,257.53	\$20,206.02	\$5,051.51	\$8,622.82	\$14,748.47		\$1,886.24		
	I. RIGHT-OF-WAY PLATS DEVELOPMENT																		
X	I. ACTIVITY CODE 726 - SURVEY EXISTING AND PROPOSED RIGHT-OF-WAY																		
	Section Corners				1		8			9	\$1,346.15			\$459.57	\$786.05		\$100.53		
	IP Boundary				1		16			17	\$2,529.06			\$863.41	\$1,476.78		\$188.87		
	Appraisal Staking						8			8	\$1,182.91			\$403.84	\$690.73		\$88.34		
	Subtotal Design - Survey Existing and Proposed Right-of-Way (726)				2		32			34	\$5,058.12			\$1,726.82	\$2,953.56		\$377.74		
X	I. ACTIVITY CODE 745 - DEVELOP TRANSPORTATION PROJECT PLAT (TPP)																		
	Meetings & Coordination			4					\$4,200.00	4	\$5,105.93			\$309.28	\$528.99	\$4,200.00	\$67.66		
	Processing							4		4	\$402.11			\$137.28	\$234.80		\$30.03		
	Mapping							4		4	\$402.11			\$137.28	\$234.80		\$30.03		
	Boundary Easement Exception Review				8					8	\$1,305.93			\$445.84	\$762.56		\$97.53		
	Boundary Input				24					24	\$3,917.79			\$1,337.52	\$2,287.69		\$292.58		
	Easement Input				32					32	\$5,223.73			\$1,783.36	\$3,050.26		\$390.11		
	Preliminary Plat Design				8					8	\$1,305.93			\$445.84	\$762.56		\$97.53		
	Preliminary Plat Drafting				8		8	40		56	\$6,509.98			\$2,222.48	\$3,801.33		\$486.17		
	Final Plat Design																		
	Final Plat Drafting																		
	Legal Descriptions																		
	QAQC			4						4	\$905.93			\$309.28	\$528.99		\$67.66		
	Subtotal Design - Develop Transportaiton Project Plat (745)			8	80		8	48	4200	144	\$25,079.44			\$7,128.16	\$12,191.98	\$4,200.00	\$1,559.30		

