

THREE-PARTY DESIGN ENGINEERING SERVICES CONTRACT BETWEEN

City of Racine (MUNICIPALITY),

State of Wisconsin Department of Transportation (DEPARTMENT),

AND

Graef-USA Inc. (CONSULTANT)

FOR

I.D. 2350-00-00

Hamilton Street/Douglas Avenue (STH 32)

North Main Street to Goold Street

Racine County

DOT FOS OBJECT CODE 5501

This is a DESIGN ENGINEERING SERVICES CONTRACT between the City of Racine (MUNICIPALITY), DEPARTMENT, and Graef-USA Inc. (CONSULTANT) to provide consultant engineering services and will be completed by/within twenty-five (25) months by March 1, 2017.

The MUNICIPALITY proposes a transportation improvement PROJECT described as follows:

For I.D. 2350-00-00 the CONSULTANT will provide final design services and final Transportation Project Plat (TPP) for Hamilton Street/Douglas Avenue in the City of Racine. The project will involve the reconstruction of 1.3 miles of Douglas Avenue/Hamilton Street which includes the replacement of all street lighting, the spot replacement of deteriorated sewer along the project route, streetscaping at various locations, and the replacement of all traffic signal equipment.

The MUNICIPALITY and DEPARTMENT deem it advisable to engage CONSULTANT to provide certain engineering services and have authority to contract for these services.

**ALL SERVICES**

Compensation for all Services provided by the CONSULTANT under terms of the CONTRACT shall be from the DEPARTMENT:

- (1) For work performed by the CONSULTANT, a lump sum of \$245,320.64.
- (2) For a final Transportation Project Plat (TPP), draft the conveyance of rights in land documentation for the release of utility interests, and the preparation of the final storm sewer plans, actual cost to M Squared Engineering, (DBE), the CONSULTANT'S actual cost up to \$74,596.53 plus a fixed fee of \$5,520.97, up to a maximum combined amount of \$80,117.50.
- (3) For a final roadway lighting plan subcontracted to Powrtek Engineering, Inc., for a lump sum fee of \$18,692.25.
- (4) For Multicultural Public Involvement and Outreach, subcontracted to ABRAZO (DBE) for a lump sum of \$9,264.65.

(5) For final design review of a proposed roundabout, actual cost to GHD Inc. up to \$5,351.45, plus a fixed fee of \$396.31, up to a maximum combined amount of \$5,747.76.

Compensation in excess of the total CONTRACT amount of \$359,142.80 shall not be allowed unless approved by a written CONTRACT amendment. Compensation for costs incurred as a result of improper performance by the CONSULTANT will not be allowed. Details of CONTRACT compensation provisions follow in the text of the CONTRACT and STANDARD PROVISIONS incorporated by reference.

The CONSULTANT represents it is in compliance with the laws and regulations relating to the profession of engineering and signifies its willingness to provide the desired engineering services. The CONSULTANT representative is Bob Warren, PE, whose work address, e-mail address and telephone number are 125 S. 84<sup>th</sup> Street, Suite 401, Milwaukee, Wisconsin 53214, robert.warren@graef-usa.com (414) 266-9032.

The DEPARTMENT representative is Mark Wilfert, PE, whose work address, e-mail address and telephone number are 141 NW Barstow Street, Waukesha, Wisconsin 53187, mark.wilfert@dot.wi.gov (262) 548-5936.

The MUNICIPALITY representative is John Rooney, P.E., whose work address, e-mail address and telephone number are 730 Washington Avenue, Racine, WI. 53403, [john.rooney@cityofracine.org](mailto:john.rooney@cityofracine.org) (262) 636-9460.

This CONTRACT incorporates and the parties agree to all of the STANDARD PROVISIONS of the August 2, 2002, THREE PARTY DESIGN ENGINEERING SERVICES BOILERPLATE, Procedure 8-15-1, Figure 2a of the State Of Wisconsin Department of Transportation Facilities Development Manual. CONSULTANT acknowledges receipt of a copy of these STANDARD PROVISIONS.

The parties also agree to all of the provisions which are annexed and made a part of this CONTRACT, consisting of 9 pages.

This CONTRACT also incorporates the State of Wisconsin Facilities Development Manual and all other Manuals referenced therein, unless this CONTRACT expressly excludes a provision thereof or the context of this CONTRACT clearly indicates an entirely different understanding of the parties.

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: \_\_\_\_\_  
Burt J. Naumann, RLS

Title: \_\_\_\_\_  
Vice President

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

For the DEPARTMENT

\_\_\_\_\_  
Contract Manager, WisDOT

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

\_\_\_\_\_  
GOVERNOR, State of Wisconsin

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

FOR THE MUNICIPALITY

By: \_\_\_\_\_  
John Dickert, Mayor

ATTEST: \_\_\_\_\_  
By: Janice Johnson-Martin – City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Robert K. Weber, City Attorney

Provisions have been made to pay the liability that will accrue hereunder.

\_\_\_\_\_  
David Brown, Finance Director

**THREE PARTY DESIGN CONTRACT SPECIAL PROVISIONS**  
**Revised 12/12/2006**

VI. SPECIAL PROVISIONS

SCOPE OF SERVICES

A. DESIGN REPORTS

- (1) Request for Exceptions to Design Standards (Not in Contract)
- (2) Encroachment Report (Not in Contract)
- (3) Finalize Transportation Management Plan (TMP)

B. ENVIRONMENTAL DOCUMENTATION

- (1) Environmental Report (Not In Contract)
- (2) Historical and Archaeological Surveys and Studies: (Not in Contract)
- (3) Hazardous Materials/Contamination Assessments
  - (a) Phase I Investigation (Not in Contract)
  - (b) The DEPARTMENT will conduct a Phase II Investigation.

C. AGENCY COORDINATION

- (1) Section 401 and 402 Certifications: (Not in Contract)
- (2) Section 404 Water Quality, WDNR concurrence

D. RAILROAD/UTILITY INVOLVEMENTS

- (a) Utility Negotiations/Agreements (Not Part of Scope)
- (3) Utility Coordination

This is not a Trans220 Project; however, utility coordination will follow Trans220 timelines and processes outlined in the MANUAL to assure that

time allows for utilities to move facilities in conflict prior to the beginning of construction.

(4) Utility Release of Rights

CONSULTANT shall develop legal descriptions and draft the "Conveyance of Rights in Land" documentation for the release of utility interests impacted by the project. It is estimated that five (5) parcels will be affected.

E. PUBLIC INVOLVEMENT

(1) Informational Meetings:

- (a) The CONSULTANT shall conduct or assist the MUNICIPALITY and the DEPARTMENT in holding one (1) informational meeting (PIM) to acquaint the public with the concepts and probable impacts of this PROJECT. Spanish verbal translation will be provided at this meeting.
- (b) The CONSULTANT shall prepare all exhibits and documentary handout material and provide the equipment necessary to conduct the public informational meetings. Exhibits and handout material will be bilingual - English and Spanish.
- (c) The CONSULTANT shall prepare a summary report after the public information meeting.
- (d) The CONSULTANT shall consult with the MUNICIPALITY and the DEPARTMENT after the public informational meeting to discuss the comments received and shall recommend as to the possible disposition of these comments and suggestions.
- (e) The CONSULTANT shall make all the necessary arrangements for scheduling the meeting(s) and provide notices and press releases for the MUNICIPALITY'S use. Bilingual newspaper display ads and notices will be prepared for each PIM.
- (f) The CONSULTANT shall provide the MUNICIPALITY and the DEPARTMENT with copies of all public involvement correspondence and file notes.
- (g) The CONSULTANT shall coordinate meeting schedules with the MUNICIPALITY'S representative.
- (h) The CONSULTANT shall perform research to determine if Hispanic community/business newsletters are available in the project area that could be used to serve notice of the Public Information meetings.

- (2) Business Owners Meeting: (Not in Contract)
- (3) Citizen Advisory Committee: (Not in Contract)
- (4) Property Owner Meetings:
  - (a) The CONSULTANT shall conduct or assist the MUNICIPALITY in holding five (5) on site meetings with individual property owners to convey information and discuss specific impacts relative to an owner's property. Spanish verbal translation will be available at this meeting if required.

#### F. MEETINGS

- (1) One (1) meeting shall be held with local officials approximately two weeks prior to the Public Informational Meetings.
- (2) Four (4) meetings shall be held to plan, review, and coordinate the PROJECT with the MUNICIPALITY'S staff.
- (3) The CONSULTANT shall attend the pre-construction conference as scheduled by the DEPARTMENT.
- (4) A Final (90%) Plan Review Meeting with the DEPARTMENT shall be held approximately 45 – 60 days ahead of the P.S. & E. Submittal date.
- (5) The CONSULTANT shall conduct two (2) coordination meetings with utilities having facilities on the PROJECT.

#### G. LOCATING: (Not in Contract)

#### H. SURVEYS

- (1) The CONSULTANT shall temporary mark existing right-of-way for coordination with affected utilities and property owners.
- (2) The CONSULTANT shall field locate and temporary mark the new right-of-way boundaries in a manner which will facilitate the appraisal of all affected parcels.
- (3) The CONSULTANT shall monument the new and existing right-of-way boundaries in accordance with the procedures outlined in the MANUAL.

#### I. SOILS AND SUBSURFACE INVESTIGATIONS (Not in Contract)

- (1) Will be added as extra services if required for sign structure design.

## J. ROAD PLANS

(1) Section II.I.(2) in the Standard Provision of the CONTRACT is removed and replaced to include the following plans:

- a. Title Sheet
- b. Typical Cross Sections and General Notes
- c. Special Details including roadway elements and geometric layout
- d. List of Standard Detail Drawings
- e. Engineering Estimates on Computer Worksheets
- f. Miscellaneous Quantities
- g. Intersection Details
- h. Plan Details
- i. Roundabout Plan
- j. Removal Plan
- k. Plan & Profile Sheets
- l. Computer Earthwork Data and Mass Diagrams
- m. Cross Sections
- n. Traffic Control Plan
- o. Erosion Control Plan
- p. Pavement Marking Plan
- q. Signing Removal Plan
- r. Decorative and Standard Lighting Plan
- s. Construction staging plan for 2 stages (earthwork quantities for each stage)
- t. Detour Plan for two (2) detour routes, Memorial Dr. and Main St.
- u. Permanent Traffic Signal Plan
- v. Temporary traffic signal design for 5 (five) intersections and two (2) stages;
  1. Yout St. and Douglas Ave.
  2. High St. and Douglas Ave.
  3. High St. and Martin Luther King
  4. St. Patrick St. and Douglas Ave.
  5. Main St. and Hamilton St.
- w. Temporary traffic signal timing for 18 (eighteen) intersections and two (2) stages.
- x. Traffic signal fiber optic Interconnect plan between Yout Street and St. Patrick Street.
- y. Streetscape/Landscape Plan (Jonas Statue area and 3 Primary Pocket Park and stamped crosswalks at signalized intersections, benches, trash receptacles and trees)
- z. Storm Sewer Plan
- aa. Project Overview - Single Sheet Schematic Drawing

(2) Streetscape/Landscape Plans include the following items;

- a. Prepare conceptual plan and studies showing typical streetscape designs for 3 pocket park locations and the Jonas Statue island.
- b. Streetscape elements will include specialty paving, benches, trash receptacles, bike racks. Designs for the illumination of the Johnas Statue are not included in this scope.

- c. Two graphic presentation boards will be prepared for the PIM to communicate the character of the streetscape design.
- d. Review results of the Douglas Avenue BID streetscape banner design package for potential incorporation into the streetscape design. Detailed banner design is not part of this scope.

K. STRUCTURE PLANS (Not in Contract)

L. PLATS

- (1) The CONSULTANT shall finalize the preliminary Transportation Project Plat (TPP) as defined in the MANUAL.
- (2) The DEPARTMENT shall provide to the CONSULTANT updated last deed of record and copies of any referenced documents delineated in the last deed, all documented easements of record, appropriate quarter section maps and tax roll listings and if applicable subdivision plats or certified survey maps. The DEPARTMENT does not contract for title commitments until the preliminary Right-of-Way Plat is submitted to the DEPARTMENT. The CONSULTANT is responsible to review all title commitments, when delivered to them by the REGION, to update name changes, utility easements and other documents of record and to update the Right-of-Way Plat.
- (3) A right of way descriptions shall be provided for all individual parcels of land to be acquired as Right of Way for the PROJECT. An individual legal description shall be provided for each parcel, or an envelope description that does not cover more than one page of the plat. 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. The CONSULTANT shall submit the legal descriptions on a hard copy and on a 3 ½ inch disk or an electronic e-mail file to the REGION.
- (4) The CONSULTANT shall prepare the descriptions in line item format using IBM compatible PC-DOS-Word Perfect software and provide a copy of this diskette to the DEPARTMENT and MUNICIPALITY.
- (5) The CONSULTANT shall field locate and temporarily mark the new right of way boundaries in a manner which will facilitate the appraisal of all affected parcels.
- (6) The CONSULTANT shall monument the new and existing right of way boundaries in accordance with the procedures outlined in the MANUAL.
- (7) The CONSULTANT shall 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. Point numbers should correspond to data as submitted in



Section H SURVEYS (5). A 3 ½ inch disk or electronic e-mail file with point numbers in SDMS format, in ground coordinates is to be provided to the REGION.

- (8) A 4 mil full size mylar shall be submitted to the REGION for the initial relocation order and for revisions when requested by the REGION. A table shall be assigned to every Right-of-Way Plat sheet stating the historical basis for dimensioning the existing highway right-of-way, to also include intersecting side roads. The coordinate basis for the plat shall be on the title sheet and each detail sheet.
- (9) The CONSULTANT will be responsible for all changes to the plat sheets and legal descriptions until the Real Estate Certification is completed. 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.
- (10) The CONSULTANT shall submit the Right-of-Way Plat electronically in a AutoCAD (DWG) format to be reproduced by the REGION CADD Unit for each relocation order or when requested by the REGION.
- (11) For CONSULTANT design contracts having real estate acquisition: The CONSULTANT shall supply the Region with full size sets of plan/profile and cross sections, including r/w plat if developed as part of this contract, for the department's use in real estate acquisition at the time required in the project schedule. Revised full size sheets shall be supplied to the Region as such revisions are made throughout the acquisition process.
- (12) The CONSULTANT shall prepare right-of-way plat based on an estimated one hundred and thirty seven (137) parcels to be needing easements and Fee Title. Title searches will only be performed for these one hundred and thirty seven (137) parcels and other right-of-way information will be assumed based on GIS information, past plats, and property corners located in the field. Relocations are not anticipated. TLE's are expected to be needed at intersections to accommodate grading at driveway approaches and curb ramp improvements. Any additional parcels shall be considered "EXTRA WORK".
- (13) The CONSULTANT shall be responsible for drafting the Utility Release of Rights documents (Conveyance of Rights in Land, Quitclaim Deed, or Temporary Highways Easement forms).
- (14) Real Estate acquisition will be performed by the City of Racine.

M. Highway System Changes (Not in Contract)

N. TRAFFIC

1. Temporary traffic signal plans for 5 (five) intersections and two (2) stages;
  - a. Yout St. and Douglas Ave.
  - b. High St. and Douglas Ave.

- c. High St. and Martin Luther King
- d. St. Patrick St. and Douglas Ave.
- e. Main St. and Hamilton St.

2. Prepare temporary traffic signal timing for 18(eighteen) intersections for two stages of construction at the following intersections;

- a. Memorial Dr. and State St.
- b. MLK Dr. and State St.
- c. Marquette St. and State St.
- d. Douglas Ave. and State St.
- e. Main St. and State St.
- f. Main St. and Hamilton St.
- g. Main St. and High St.
- h. Main St. and Goold St.
- i. Memorial Dr. and West St.
- j. Memorial Dr. and Hamilton St.
- k. Memorial Dr. and High St.
- l. Memorial Dr. and Rapids Dr.
- m. Douglas Ave. and Goold St.
- n. Douglas Ave. and Yout St.
- o. Douglas Ave. and Rapids Dr.
- p. Douglas Ave. and High St.
- q. MLK Dr. and High St.
- r. Douglas Ave. and Marquette St.

3. Prepare Signal Warrant analysis for temporary signal at Memorial Dr. and Goold St.

4. Temporarily modify existing signals at Goold St. and Main St.

5. Prepare traffic signal fiber optic interconnect plan between Yout Street and St. Patrick Street

O. SAFETY ANALYSIS (Not in Contract)

P. SERVICES PROVIDED BY THE MUNICIPALITY

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

- 1. Real Estate acquisition
- 2. Construction details and specifications for the installation of traffic signal fiber interconnect conduit.

Q. SERVICES PROVIDED BY THE DEPARTMENT

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

- 1. Phase II Environmental Investigation
- 2. Title updates

R. PROSECUTION AND PROGRESS

- (1) The MUNICIPALITY shall report on the progress of the PROJECT as stipulated in the contract agreement. Standard benchmarks, consistent with WisDOT 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 WisDOT standards (Microsoft Project), or on paper.
- (2) The CONSULTANT proposes to sublet services to;
- a) For finalizing Transportation Project Plat, storm sewer design, utility release of rights, field staking of right-of-way:
- M Squared Engineering, LLC  
W62N215 Washington Avenue  
Cedarburg, WI 53012  
Matthew Hahm, PE, Principal: [matt@msquaredengineering.com](mailto:matt@msquaredengineering.com)
- b) For Street Lighting Plans:
- Powrtek Engineering, Inc.  
20711 Watertown Road, Suite C  
Waukesha, WI 53186  
Greg Sadowski, PE, President: [gregs@powrtek.com](mailto:gregs@powrtek.com)
- c) For Multicultural Public Involvement and Outreach:
- Abrazo  
229 Wisconsin Avenue, Suite 800  
Milwaukee, WI 53202  
Sheree Dallas Branch: [sheree.d@abrazomarketing.com](mailto:sheree.d@abrazomarketing.com)
- d) For Review of Roundabout Design:
- GHD, Inc.  
5325 Wall Street, Suite 2305  
Madison, WI 53718  
Troy Pankratz, P.E. Project Director: [troy.pankratz@ghd.com](mailto:troy.pankratz@ghd.com)
- (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 January 1, 2015.

(Task)	(Date)
Right-Of-Way Plat(s)	March 1, 2016
Right-Of-Way Descriptions	March 1, 2016

Project Plan Submittal to Utilities (DT 1078)  
Draft PS&E (90%)  
Advancable P.S. & E.  
Project LET

November 1, 2016  
February 1, 2017  
February 1, 2017  
May 2017

## **BASIS OF PAYMENT**

- (1) The CONSULTANT will be compensated by the DEPARTMENT for services provided under this CONTRACT on the following basis:
  - (a) For basic design services including administration and coordination; agency, utility coordination; public involvement; roadway, signal and drainage design, and the production of PS&E documents performed by CONSULTANT  

A LUMP SUM of \$245,320.64
  - (b) For a Transportation Project Plat (TPP), storm sewer design, sublet to M Squared Engineering, LLC, the CONSULTANT'S actual cost up to \$74,596.53 plus a fixed fee of \$5,520.97, up to a maximum combined amount of \$80,117.50.
  - (c) For roadway lighting plan sublet to Powrtek Engineering, for a lump sum fee of \$18,692.25.
  - (d) For Multicultural Public Involvement and Outreach sublet to ABRAZO (DBE) for a lump sum fee of \$9,264.65.
  - (e) For final design review of Roundabout Design sublet to GHD, the CONSULTANT'S actual costs up to \$5,351.45, plus a fixed fee of \$396.31, up to a maximum combined amount of \$5,747.76
- (2) For all services on this contract, total compensation shall not exceed \$359,142.80 unless approved by a written CONTRACT amendment.

**Consultant Weighted Average Direct Labor Rates for the First Year**

**Exhibit 1**

Classification: Project Engineer			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
Huberty	\$ 51.92	5	\$ 2.60
Kressin	\$ 51.92	10	\$ 5.19
Rogahn	\$ 38.61	75	\$ 28.96
Ratzburg	\$ 39.57	5	\$ 1.98
Brummond	\$ 39.76	5	\$ 1.99
		100	\$ 40.72

Classification: Design Engineer			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
Schmitt	\$ 36.44	10	\$ 3.64
Krieger	\$ 31.78	60	\$ 19.07
Messer	\$ 32.04	5	\$ 1.60
Ost	\$ 33.10	20	\$ 6.62
Olson	\$ 25.55	5	\$ 1.28
		100	\$ 32.21

Classification: Senior Technician			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
Dave Koslo	\$ 35.19	25	\$ 8.80
B. Brandt	\$ 30.50	25	\$ 7.63
Holley	\$ 31.00	25	\$ 7.75
Dan Koslo	\$ 29.00	25	\$ 7.25
		100	\$ 31.43

Classification: Technician			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
Holley	\$ 31.00	50	\$ 15.50
Pallay	\$ 16.00	50	\$ 8.00
		100	\$ 23.50

Classification: Clerical			
Name or Employee Number	Current Rate (a)	Percent Contribution (b)	(a x b)
Mahnke	\$ 20.25	100	\$ 20.25
			\$ 0.00
		100	\$ 20.25

**Contract Completion Date: March 1, 2017**

**I.D. 2350-00-00  
Hamilton Street/Douglas Avenue (STH 32)  
North Main Street to Goold Street  
Racine County**



**EXHIBIT 2**

**CONSULTANT DIRECT LABOR RATES**

NAME	CLASSIFICATION	CURRENT RATE (12%)	%PAY INCREASE	2015-2016 NEW PAY RATE (48%)	DATE OF INCREASE	% PAY INCREASE	2016-2017 NEWPAY RATE (40%)	DATE OF INCREASE	WEIGHTED AVERAGE HOURLY RATE
Warren	Project Manager	\$48.61	2.0	\$49.58	4/1/2015	2.0	\$50.57	4/1/2016	\$49.86
Average - Selected Individuals	Project Engineer	\$40.72	2.0	\$41.53	4/1/2015	2.0	\$42.36	4/1/2016	\$41.77
Average - Selected Individuals	Design Engineer	\$32.21	2.0	\$32.85	4/1/2015	2.0	\$33.51	4/1/2016	\$33.04
Average - Selected Individuals	Senior Technician	\$31.43	2.0	\$32.06	4/1/2015	2.0	\$32.70	4/1/2016	\$32.24
Average - Selected Individuals	Technician	\$23.50	2.0	\$23.97	4/1/2015	2.0	\$24.45	4/1/2016	\$24.11
Average - Selected Individuals	Clerical	\$20.25	2.0	\$20.66	4/1/2015	2.0	\$21.07	4/1/2016	\$20.78

**CONTRACT COMPLETION DATE:**

**March 1, 2017**

**% Work Calculations**

12% = Jan. 1, 2015 to April 1, 2015 = 3 Months

48% = April 1, 2015 to April 1, 2016 = 12 Months

40% = Jan. 1, 2016 to March 1, 2017 = 10 Months

**I.D. 2350-00-00  
Hamilton Street/Douglas Avenue (STH 32)  
Main Street to Goold Street  
Racine County**





**Exhibit 4**

**DESIGN ENGINEERING  
FEE COMPUTATION SUMMARY BY ENGINEERING TASK**

TASK	Activity Code	Direct Labor Costs	Overhead Costs	Fixed Fee / Profit	Direct Expenses	Total
Survey-General	729	\$2,916.62	\$5,015.71	\$594.92	\$405.00	\$8,932.25
Design-R/W Plats-Recording	737	\$357.64	\$615.03	\$72.95		\$1,045.62
Project Dev-Admin/Coordination	740	\$4,986.00	\$8,574.42	\$1,017.03	\$168.00	\$14,745.45
Prelim Design-Traffic	741	\$826.00	\$1,420.47	\$168.49	\$50.00	\$2,464.96
Finalize Design Elements	742	\$15,049.30	\$25,880.28	\$3,069.72	\$100.00	\$44,099.30
Public Inf. Meetings & Hearing	743	\$3,713.64	\$6,386.35	\$757.50	\$536.00	\$11,393.49
Proj Dec-Utilities/RR/Agency	746	\$3,752.84	\$6,453.76	\$765.50	\$50.00	\$11,022.10
Project Develop-Meetings	747	\$2,490.19	\$4,282.38	\$507.94	\$504.00	\$7,784.51
Design-Reports	748	\$1,318.40	\$2,267.25	\$268.92		\$3,854.57
Design-Cadds-Drafting	770	\$8,583.16	\$14,760.46	\$1,750.77		\$25,094.39
Consultant Management	773	\$2,917.30	\$5,016.88	\$595.06	\$336.00	\$8,865.24
R/W Plat Prep (Drafting)	784	\$586.32	\$1,008.29	\$119.60		\$1,714.21
Signals and Lighting	785	\$20,566.54	\$35,368.28	\$4,195.11	\$336.00	\$60,465.93
Compute Quantities & Details	786	\$4,823.60	\$8,295.14	\$983.91		\$14,102.65
Traf Control & Const Staging	788	\$4,887.50	\$8,405.03	\$996.94		\$14,289.47
Final Design-Drainage	789	\$1,531.12	\$2,633.07	\$312.31		\$4,476.50
Plans, SFPs and PS&E Docs	794	\$3,717.92	\$6,393.71	\$758.37	\$100.00	\$10,970.00
<b>TOTALS</b>		<b>\$83,024.09</b>	<b>\$142,776.51</b>	<b>\$16,935.04</b>	<b>\$2,585.00</b>	<b>\$245,320.64</b>

Home Office Overhead Rate of: 1.7197  
Fixed Fee: 7.5

I.D. 2350-00-00  
Hamilton Street/Douglas Avenue (STH 32)  
Main Street to Goold Street  
Racine County







**Exhibit 6**

**CONSULTANT CONTRACT TOTAL FEE COMPUTATION**

	Project I.D. I.D. 2350-00-00	Project I.D.	Project I.D.	TOTAL CONTRACT
<b>Number of Staff Hours</b>	<b>2,437</b>			<b>2,437</b>
Total Direct Labor	\$ 83,024.09			\$ 83,024.09
Total Overhead Costs	\$ 142,776.51			\$ 142,776.51
Fixed Fee / Profit	\$ 16,935.04			\$ 16,935.04
Non-Labor Direct Charges	\$ 2,585.00			\$ 2,585.00
<b>Contract Sub-Total</b>	<b>\$ 245,320.64</b>	<b>\$ 0.00</b>	<b>\$ 0.00</b>	<b>\$ 245,320.64</b>
M Squared	\$ 80,117.50			\$ 80,117.50
POWRTEK	\$ 18,692.25			\$ 18,692.25
ABRAZO	\$ 9,264.65			\$ 9,264.65
GHD	\$ 5,747.76			\$ 5,747.76
<b>Subcontract Total</b>	<b>\$ 113,822.16</b>	<b>\$ 0.00</b>	<b>\$ 0.00</b>	<b>\$ 113,822.16</b>
<b>CONTRACT TOTAL COST</b>	<b>\$ 359,142.80</b>	<b>\$ 0.00</b>	<b>\$ 0.00</b>	<b>\$ 359,142.80</b>

Home Office Overhead Rate of: **1.7197**  
Fixed Fee: **7.5**

**I.D. 2350-00-00**  
**Hamilton Street/Douglas Avenue (STH 32)**  
**Main Street to Goold Street**  
**Racine County**





W62 N215 Washington Avenue  
Cedarburg, WI 53012  
Phone: (262)376-4246 Fax: (262)375-2274

...where engineering solutions meet water quality...

November 3, 2014

Robert L. Warren, PE  
GRAEF  
One Honey Creek Corporate Center  
125 South 84<sup>th</sup> Street, Suite 401  
Milwaukee, WI 53214-1470

RE: WisDOT Project Number 2350-00-00  
Hamilton Street / Douglas Avenue (STH 32), North Main Street to Goold Street, Racine County  
Final PS&E

Dear Robert:

M Squared Engineering is pleased to submit this proposal to assist you in completing the design services for the above referenced project.

Our scope of services, as we understand it, includes:

1. Developing a Final Transportation Project Plat (TPP) for up to 150 parcels.
2. Drafting the Utility of Rights documents.
3. Developing the final storm sewer plans with supporting calculations and report.

We also understand GRAEF will provide all field work relating to locating, marking, and the monumentation of all existing and proposed right-of-way boundaries. GRAEF will also provide all project management and coordination as the prime consultant contracted with Wisconsin Department of Transportation.

Attached to this document is our design estimate on WisDOT Fee Calculation forms. The fees include an actual cost of \$74,596.53, plus a fixed fee of \$5,520.97, for a total not to exceed amount of \$80,117.50, with a contract completion date of March 1, 2017.

We truly appreciate this opportunity working with GRAEF and their staff. Please feel free to contact me should you have any questions or comments regarding this analysis. I can be reached at (262) 376-4246 or [matt@msquaredengineering.com](mailto:matt@msquaredengineering.com).

Please call with any questions or comments.

Sincerely,

M SQUARED ENGINEERING, LLC

  
Matthew G. Hahm, PE  
Principal

Enclosure: M<sup>2</sup> Level of Effort spreadsheet

Hamilton St./Douglas Ave.  
Main St. to Goold St, Racine County.  
2350-00-00

M Squared Engineering, LLC

### Consultant Direct Labor Rates

**Project ID: 2350-00-00**

Employee Name(a)	Classification(b)	Current Rate(c)	% Pay Increase(d)	New Pay Rate(e)	Date of Increase(f)	% Work at Current Rate(g)	% Work at Increased Rate(h)	Weighted Average Hourly Rate(i)
Matt Hahm	Project Manager	\$63.60	2.00%	\$64.87	12/31/14	5.00%	95.00%	\$64.81
Jon Schreiner, PE	Senior Project Engineer	\$34.86	2.00%	\$35.56	12/31/14	5.00%	95.00%	\$35.53
Tony Gromacki, RLS	Surveyor	\$33.13	2.00%	\$33.79	12/31/14	10.00%	90.00%	\$33.73
Kris Koepke	Clerical	\$21.37	2.00%	\$21.80	12/31/14	5.00%	95.00%	\$21.78

**Completion Date: 3/1/2017**

Hamilton St./Douglas Ave.  
 Main St. to Goold St, Racine County,  
 2350-00-00

M Squared Engineering, LLC

**Summary of Staff Hours and Direct Labor Costs**

**Project ID: 2350-00-00**

Classification		Project Manager		Senior Project Engineer		Surveyor		Clerical		Total Direct Labor	
Avg. Hourly Wage		\$64.81		\$35.53		\$33.73		\$21.78			
Task	Activity Code	Hours	Dollars	Hours	Dollars	Hours	1.4696	Hours	Dollars	Hours	Dollars
Project Management and Coordination:	740	37	\$2,397.97	0	\$0.00	0	\$0.00	8	\$174.24	45	\$2,572.21
Meetings	747	4	\$259.24	0	\$0.00	16	\$539.68	0	\$0.00	20	\$798.92
Recording Plat and Coordination with City	737	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Final (60-100%) TPP 150 Parcels	745	0	\$0.00	8	\$284.24	658	\$22,194.34	0	\$0.00	666	\$22,478.58
Plans, SPs and PS&E Documents	742	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Final Stormwater and Sewer Design	766	4	\$259.24	117	\$4,157.01	0	\$0.00	0	\$0.00	121	\$4,416.25
<b>TOTAL:</b>		<b>45</b>	<b>\$2,916.45</b>	<b>125</b>	<b>\$4,441.25</b>	<b>674</b>	<b>\$22,734.02</b>	<b>8</b>	<b>\$174.24</b>	<b>852</b>	<b>\$30,265.96</b>

Hamilton St./Douglas Ave.  
 Main St. to Goold St, Racine County.  
 2350-00-00

M Squared Engineering, LLC

**Fee Computation Summary by Engineering Task**

**Project ID: 2350-00-00**

Task	Activity Code	Direct Labor Costs	Overhead Costs	Fixed Fee/Profit	Direct Expenses	Total
Project Management and Coordination:	740	\$2,572.21	\$3,683.92	\$469.21		\$6,725.34
Meetings	747	\$798.92	\$1,144.21	\$145.73	\$196.74	\$2,285.60
Recording Plat and Coordination with City	737	\$0.00	\$0.00	\$0.00		\$0.00
Final (60-100%) TPP 150 Parcels	745	\$22,478.58	\$32,193.80	\$4,100.44	\$786.94	\$59,559.76
Plans, SPs and PS&E Documents	742	\$0.00	\$0.00	\$0.00		\$0.00
Final Stormwater and Sewer Design	766	\$4,416.25	\$6,324.96	\$805.59		\$11,546.80
<b>TOTAL:</b>		<b>\$30,265.96</b>	<b>\$43,346.89</b>	<b>\$5,520.97</b>	<b>\$983.68</b>	<b>\$80,117.50</b>

Company Wide Overhead Rate: 1.4322

Fixed Fee: 7.5%

Hamilton St./Douglas Ave.  
Main St. to Goid St, Racine County.  
2350-00-00

M Squared Engineering, LLC

**Direct Expenses by Item**

**Project ID: 2350-00-00**

<b>Item</b>	<b>Unit Amount</b>	<b>Unit Type</b>	<b>Rate</b>	<b>Total Expenses</b>
Company Vehicle Mileage	1,453	Per mile	\$0.560	\$813.68
Shipping	2	Each (Estimate)	\$35.00	\$70.00
Copies (Outside)	1	LS (Estimate)	\$100.00	\$100.00
			<b>TOTAL</b>	<b>\$983.68</b>

Hamilton St./Douglas Ave.  
Main St. to Goid St, Racine County.  
2350-00-00

M Squared Engineering, LLC

**Consultant Contract Total Fee Computation**

<b>Project ID</b>	<b>2350-00-00</b>	<b>Total for Contract</b>
<b>Number of Staff Hours</b>	<b>852</b>	<b>852</b>
<b>Total Direct Labor</b>	<b>\$ 30,265.96</b>	<b>\$ 30,265.96</b>
<b>Total Overhead Costs</b>	<b>\$ 43,346.89</b>	<b>\$ 43,346.89</b>
<b>Fixed Fee/Profit</b>	<b>\$ 5,520.97</b>	<b>\$ 5,520.97</b>
<b>Direct Expenses</b>	<b>\$ 983.68</b>	<b>\$ 983.68</b>
<b>TOTAL COST</b>	<b>\$ 80,117.50</b>	<b>\$ 80,117.50</b>

**Company Wide Overhead Rate:** 1.4322

**Fixed Fee:** 7.5%





20711 Watertown Road, Suite C  
Waukesha, WI 53186  
[www.powrtek.com](http://www.powrtek.com)  
Phone: 262-827-9575  
Fax: 262-827-9615

October 28, 2014

Mr. Robert L. Warren, PE  
GRAEF  
One Honey Creek Corporate Center  
125 South 84th Street, Suite 401  
Milwaukee, Wisconsin 53214-1470

RE: Hamilton St./Douglas Ave. (STH 32)  
Main St. to Goold St.  
City of Racine  
WisDOT ID: 2350-00-00  
Roadway Lighting  
Final PS&E

Dear Bob:

We appreciate the opportunity to provide you with a fee proposal for this project and look forward to working with you. We have included our fee proposal and scope of services.

**PROJECT DESCRIPTION:**

Preparation of final PS&E lighting design based on preliminary lighting layout for the replacement of roadway lighting system for 1.2 mi of roadway.

**ELECTRICAL FEE:**

We propose a Lump Sum fee of \$18,692.25, with a contract completion date of March 1, 2017.

**SCOPE OF SERVICES**

- Site inspection.
- One design meeting.
- Lighting details.
- Field Wiring diagrams.
- Demolition plans.
- Proposed lighting plans with stationing and circuiting.
- Specifications.
- Voltage Drop calculations.
- SDD list.
- Miscellaneous quantities.
- Opinion of probable construction cost.
- Drafting.
- Submittal at 90% and final PS&E.

Our fee proposal and scope of services is based on our understanding of the work. If you have any questions, don't hesitate to let me know.

Submitted,

Greg W. Sadowski, P.E.

**Consultant Direct Labor Rates**

**Powrtek Engineering, Inc.**

*Hamilton Street/Douglas Avenue(STH 32)*

*North Main Street to Goid Street*

*Racine County*

**Project ID: 2350-00-00**

<b>Employee Name(a)</b>	<b>Classification(b)</b>	<b>Current Rate(c)</b>	<b>% Pay Increase(d)</b>	<b>New Pay Rate(e)</b>	<b>Date of Increase(f)</b>	<b>% Work at Current Rate(g)</b>	<b>% Work at Increased Rate(h)</b>	<b>Weighted Average Hourly Rate(i)</b>
Greg Sadowski	Engineer	\$53.00				100.00%	0.00%	\$53.00
Brian Fuller	Technician	\$29.00				100.00%	0.00%	\$29.00

**Contract Completion Date:** March 1, 2017

**POWRTEK ENGINEERING, INC.**

*Hamilton Street/Douglas Avenue(STH 32)  
North Main Street to Goid Street  
Racine County  
2350-00-00*

**DESIGN ENGINEERING**

**SUMMARY OF STAFF HOURS AND DIRECT LABOR COSTS**

TASK	ACT. CODE	Engineer		Technician		Total Direct Labor	
		\$53.00		\$29.00			
		Hours	Dollars	Hours	Dollars	Hours	Dollars
DRAWING SETUP/PLOTTING	785	1	\$53.00	4	\$116.00	5	\$169.00
SITE INSPECTION	785	5	\$265.00	0	\$0.00	5	\$265.00
VOLTAGE DROP CALCULATIONS	785	6	\$318.00	0	\$0.00	6	\$318.00
MEETING	785	4	\$212.00	0	\$0.00	4	\$212.00
DEMOLITION PLANS	785	16	\$848.00	8	\$232.00	24	\$1,080.00
PROPOSED LIGHTING PLANS/STATIONING/CKTs	785	40	\$2,120.00	24	\$696.00	64	\$2,816.00
LIGHTING DETAILS	785	8	\$424.00	4	\$116.00	12	\$540.00
FIELD WIRING DIAGRAMS	785	8	\$424.00	4	\$116.00	12	\$540.00
SPECIFICATIONS	785	12	\$636.00	0	\$0.00	12	\$636.00
MISC QUANTITIES	785	16	\$848.00	0	\$0.00	16	\$848.00
COST ESTIMATE	785	3	\$159.00	0	\$0.00	3	\$159.00
COORDINATION - TRAFFIC SIGNAL, SDDs	785	8	\$424.00	0	\$0.00	8	\$424.00
LIGHTING DESIGN TOTAL	785	127	\$6,731.00	44	\$1,276.00	171	\$8,007.00
<b>TOTALS</b>		127	\$6,731.00	44	\$1,276.00	171	\$8,007.00

**POWRTEK ENGINEERING, INC.**

Hamilton Street/Douglas Avenue(STH 32)  
North Main Street to Goold Street  
Racine County  
2350-00-00

**FEE COMPUTATION SUMMARY BY ENGINEERING TASK**

TASK	ACTIVITY CODE	Direct Labor Costs	Overhead Costs	Direct Expenses	Fixed Fee	TOTAL
DRAWING SETUP/PLOTTING	785	\$169.00	\$196.04	\$40.00	\$27.38	\$432.42
SITE INSPECTION	785	\$265.00	\$307.40	\$56.00	\$42.93	\$671.33
VOLTAGE DROP CALCULATIONS	785	\$318.00	\$368.88		\$51.52	\$738.40
MEETING	785	\$212.00	\$245.92		\$34.34	\$492.26
DEMOLITION PLANS	785	\$1,080.00	\$1,252.80		\$174.96	\$2,507.76
PROPOSED LIGHTING PLANS/STATIONING/CKTs	785	\$2,816.00	\$3,266.56		\$456.19	\$6,538.75
LIGHTING DETAILS	785	\$540.00	\$626.40		\$87.48	\$1,253.88
FIELD WIRING DIAGRAMS	785	\$540.00	\$626.40		\$87.48	\$1,253.88
SPECIFICATIONS	785	\$636.00	\$737.76	\$4.00	\$103.03	\$1,480.79
MISC. QUANTITIES	785	\$848.00	\$983.68		\$137.38	\$1,969.06
COST ESTIMATE	785	\$159.00	\$184.44		\$25.76	\$369.20
COORDINATION - TRAFFIC SIGNAL, SDDs	785	\$424.00	\$491.84		\$68.69	\$984.53
LIGHTING DESIGN TOTAL	785	\$8,007.00	\$9,288.12	\$100.00	\$1,297.13	\$18,692.25
<b>TOTALS</b>		<b>\$8,007.00</b>	<b>\$9,288.12</b>	<b>\$100.00</b>	<b>\$1,297.13</b>	<b>\$18,692.25</b>

Home Office Overhead Rate of: 116%

Fixed Fee: 7.5%



## Consultant Contract Total Fee Computation

### Powrtek Engineering, Inc.

Hamilton Street/Douglas Avenue(STH 32)

North Main Street to Goold Street

Racine County

Project ID	2350-00-00				Total for Contract
Number of Staff Hours	171				171
Total Direct Labor	\$8,007.00				\$8,007.00
Total Overhead Costs	\$9,288.12				\$9,288.12
Fixed Fee	\$1,297.13				\$1,297.13
Direct Expenses	\$100.00				\$100.00
<b>TOTAL COST</b>	<b>\$18,692.25</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$18,692.25</b>

Home Office Overhead Rate of: 116%

Fixed Fee: 7.5%



October 31, 2014

**Robert L. Warren, P.E.  
GRAEF  
One Honey Creek Corporate Center  
125 South 84<sup>th</sup> Street, Suite 401  
Milwaukee, WI 53214-1470**

RE: WisDOT ID: 2350-00-00  
Hamilton St./Douglas Ave. (STH 32)  
N. Main St. to Goold St.  
Racine County  
Multicultural Public Involvement & Outreach

Dear Mr. Warren:

Please find attached ABRAZO Marketing's price proposal/fee computation and exhibits for multicultural public involvement and outreach services as part of the Hamilton St./Douglas Ave. final design.

ABRAZO will provide additional services for a lump sum fee of \$9,264.65, with a completion date of March 1, 2017.

We look forward to continuing our work with you and WisDOT on this very important project.

Sincerely,

**Nancy Hernandez  
President/CEO**

Hamilton Street/Douglas Avenue (STH 32)  
 North Main Street to Goid Street  
 Racine County

Name of Firm: ABRAZO

**Consultant Direct Labor Rates**

**Project ID:2350-00-00**

Employee Name(a)	Classification(b)	Current Rate(c)	% Pay Increase (d)	New Pay Rate (e)	Date of Increase (f)	% Work at Current Rate (g)	% Work at Increased Rate(h)	Weighted Average Hourly Rate(i)
Sheree Dallas	PI Specialist	\$33.66	2.00%	\$34.33	1/1/2015	0.00%	100.00%	\$34.33
Nancy Hernandez	Account Manager	\$52.40	2.00%	\$53.45	1/1/2015	0.00%	100.00%	\$53.45
Ricardo Aguirre	Outreach coordinator	\$21.64	2.00%	\$22.07	1/1/2015	0.00%	100.00%	\$22.07
Jim Lautenbach	Graphic Designer	\$18.75	2.00%	\$19.13	1/1/2015	0.00%	100.00%	\$19.13

**Contract Completion Date:**

March 1, 2017



Hamilton Street/Douglas Avenue (STH 32)  
 North Main Street to Goold Street  
 Racine County

Name of Firm: ABRAZO

**Summary of Staff Hours and Direct Labor Costs**

**Project ID:2350-00-00**

Classification		Account Manager		Graphic Designer		PI Specialist		Outreach Coordinator		Total Direct Labor	
Avg. Hourly Wage		\$53.45		\$19.13		\$34.33		\$22.07			
Task	Activity Code	Hrs.	Dollars	Hrs.	Dollars	Hrs.	Dollars	Hrs.	Dollars	Hrs.	Dollars
1. Public Involvement Meetings		5	\$267.25	0	\$0.00	10	\$343.30	5	\$110.35	20	\$720.90
2. Bilingual Print Pieces & Newspaper Notices		5	\$267.25	10	\$191.30	10	\$343.30	20	\$441.40	45	\$1,243.25
3. On-Site Translation		0	\$0.00	0	\$0.00	10	\$343.30	15	\$331.05	25	\$674.35
Public Involvement Total	743	10	\$534.50	10	\$191.30	30	\$1,029.90	40	\$882.80	90	\$2,638.50
<b>TOTAL</b>		<b>10</b>	<b>\$534.50</b>	<b>10</b>	<b>\$191.30</b>	<b>30</b>	<b>\$1,029.90</b>	<b>40</b>	<b>\$882.80</b>	<b>90</b>	<b>\$2,638.50</b>

Hamilton Street/Douglas Avenue (5TH 32)  
 North Main Street to Goid Street  
 Racine County

Name of Firm: ABRAZO

**Fee Computation Summary by Engineering Task**

**PROJECT TOTAL**

**Project ID:2350-00-00**

TASK	Activity Code	Direct Labor Costs	Overhead Costs	Fixed Fee	Direct Expenses	Total
Stakeholder Meetings		\$720.90	\$1,211.40	\$144.92	\$0.00	\$2,077.22
2. Bilingual Print Pieces & Newspaper Notices		\$1,243.25	\$2,089.16	\$249.93	\$1,662.00	\$5,244.34
3. On-Site Translation		\$674.35	\$1,133.18	\$135.56	\$0.00	\$1,943.09
Public Involvement Total	743	\$2,638.50	\$4,433.74	\$530.41	\$1,662.00	\$9,264.65
<b>TOTAL:</b>		<b>\$2,638.50</b>	<b>\$4,433.74</b>	<b>\$530.41</b>	<b>\$1,662.00</b>	<b>\$9,264.65</b>

Home Office Overhead Rate:

168.04%

Fixed Fee: 7.50%

Hamilton Street/Douglas Avenue (STH 32)  
North Main Street to Goid Street  
Racine County

Name of Firm: ABRAZO

**Direct Expenses by Item**

**Project ID: 2350-00-00**

Item	Unit Amount	Unit Type	Rate	Total Expenses
Employee vehicle mileage	200	miles	\$ 0.560	\$112.00
Copies, B&W 8.5x11	500	copy	\$0.10	\$50.00
Newspaper Insertions	2	each	\$500.00	\$1,000.00
Production Services	1	each	\$500.00	\$500.00
TOTAL				\$1,662.00

**Hamilton Street/Douglas Avenue (STH 32)  
North Main Street to Goold St.  
Racine County**

Name of Firm: ABRAZO

### Consultant Contract Total Fee Computation

	Project I.D. 2350-00-00	TOTAL CONTRACT
Number of Staff Hours	90	90
Total Direct Labor	\$2,638.50	\$2,638.50
Total Overhead Costs	\$4,433.74	\$4,433.74
Fixed Fee/profit	\$530.41	\$530.41
Direct Expenses	\$1,662.00	\$1,662.00
<b>Total Cost</b>	<b>\$9,264.65</b>	<b>\$9,264.65</b>

**Fixed Fee:** 7.50%

Home Office Overhead Rate

168.04%



August 18, 2014

GRAEF  
One Honey Creek Corporate Center  
125 South 84th Street, Suite 401  
Milwaukee, WI 53214-1470

Attention: Mr. Robert Warren, PE  
Associate

Dear Bob:

**Re: Project ID 2350-00-00  
STH 32  
(Hamilton Street/Douglas Avenue)  
North Main Street to Goold Street  
Racine County  
Final Design  
Our Project No. 8616781**

---

Thank you for the invitation to submit a proposal to provide final design review of the proposed roundabout along STH 32 at the intersection of Hamilton Street and Douglas Avenue in the City of Racine.

We will interact with GRAEF staff towards an anticipated final PS&E submittal date of February 1, 2017. The anticipated contract completion date is March 1, 2017. We propose actual costs up to **\$5,351.45** plus fixed fee of **\$396.31** up to a maximum combined amount of **\$5,747.76** based on the tabulated rates and estimated hours as shown in the attached.

We look forward to working with you on this project.

GHD Inc.

A handwritten signature in black ink, appearing to read "Troy Pankratz", with a stylized flourish at the end.

Troy Pankratz, P.E.  
Project Director

TP/bw  
Attch



**Project ID 2350-00-00  
STH 32  
(Hamilton Street/Douglas Avenue)  
North Main Street to Goold Street  
Racine County  
Final Design**

**Scope of Services  
August 18, 2014**

Based on the previously completed operational analysis and preliminary roundabout design, GHD will provide design support on the following items relating to the STH 32/Hamilton Street/Douglas Avenue roundabout to GRAEF staff for their final plan preparation:

*Horizontal Geometry*

- Review and provide modification recommendations in CAD format for the horizontal roundabout geometrics due to conflicts and/or infringements to right-of-way, utility locations, construction staging or other competing objectives.

*Vertical Design*

- Review and provide design guidance on vertical design including profiles, crown location, cross slopes and spot elevations.
- Analyze the vertical geometrics for the WisDOT over-size over-weight lowboy truck in AutoTurn Pro 3D. Provide recommended modifications to the vertical design if scraping of the lowboy is encountered.
  - GRAEF to provide complete and accurate surface models for the proposed roundabout.

*Signing and Markings*

- Review signing and suggest need for overhead, map-type or other directional signs, lane designation signs, exit signs, route confirmation signs, etc.
- Review pavement markings including lane designation arrows, crosswalks, entry, and exit markings.

*Construction Staging Review*

- Review and provide recommendations on construction staging relating to the roundabout intersection.

*Landscape and Lighting Design*

- Review planting locations and height limits according to visibility requirements.
- Review lighting design pole location and luminance requirements.

*Meetings*

- Attendance at the following meetings:
  - Up to one (1) design coordination meeting



ID 2350-00-00  
 STH 32  
 Hamilton Street/Douglas Avenue  
 North Main Street to Goold Street  
 Final Design  
 Racine County

**Consultant Direct Labor Rates**

Employee Name	Classification	Current Rate	% Pay Increase	7/1/15 - 6/31/16 Pay Rate	Date of Increase	% Pay Increase (g)	7/1/16 - 3/1/17 Pay Rate	Date of Increase(i)	% Work at Current Rate	% Work at 7/1/15 - 6/31/16 Rate	% Work at 7/1/16 - 6/31/17 Rate	Weighted Average Hourly Rate
280142	Project Manager	\$42.87	2.00%	\$43.73	7/1/2015	2.00%	\$44.60	7/1/2016	10.00%	30.00%	60.00%	\$44.17
280066	Staff Engineer	\$29.25	2.00%	\$29.84	7/1/2015	2.00%	\$30.43	7/1/2016	10.00%	30.00%	60.00%	\$30.13

Contract Completion Date: 3/1/2017



ID 2350-00-00  
 STH 32  
 Hamilton Street/Douglas Avenue  
 North Main Street to Goold Street  
 Final Design  
 Racine County

**Summary of Staff Hours and Direct Labor Costs**

Classification		Project Manager		Staff Engineer			
Avg. Hourly Wage		\$44.17		\$30.13		Total Direct Labor	
Task	Activity Code	Hours	Dollars	Hours	Dollars	Hours	Dollars
Finalize Design Elements	742	19	\$839.23	15	\$451.95	34	\$1,291.18
Traffic Control & Const Staging	788	2	\$88.34	6	\$180.78	8	\$269.12
Project Development-Meetings	747	4	\$176.68	0	\$0.00	4	\$176.68
<b>TOTAL:</b>		<b>25</b>	<b>\$1,104.25</b>	<b>21</b>	<b>\$632.73</b>	<b>46</b>	<b>\$1,736.98</b>





ID 2350-00-00  
STH 32  
Hamilton Street/Douglas Avenue  
North Main Street to Goold Street  
Final Design  
Racine County

**Fee Computation Summary by Engineering Task**

Task	Activity Code	Direct Labor Costs	Overhead Costs	Fixed Fee/Profit	Direct Expenses	Total
Finalize Design Elements	742	\$1,291.18	\$2,636.85	\$294.60	\$0.00	\$4,222.63
Traffic Control & Const Staging	788	\$269.12	\$549.60	\$61.40	\$0.00	\$880.12
Project Development-Meetings	747	\$176.68	\$360.82	\$40.31	\$67.20	\$645.01
<b>TOTAL:</b>		<b>\$1,736.98</b>	<b>\$3,547.27</b>	<b>\$396.31</b>	<b>\$67.20</b>	<b>\$5,747.76</b>

Company Wide Overhead Rate: 204.22

Fixed Fee: 7.5%



ID 2350-00-00  
STH 32  
Hamilton Street/Douglas Avenue  
North Main Street to Goold Street  
Final Design  
Racine County

**Direct Expenses by Item**

Item	Unit Amount	Unit Type	Rate	Total Expenses
MILEAGE	120	MILES	\$0.560	\$67.20
<b>TOTAL</b>				<b>\$67.20</b>



ID 2350-00-00  
 STH 32  
 Hamilton Street/Douglas Avenue  
 North Main Street to Gould Street  
 Final Design  
 Racine County

**Consultant Contract Total Fee Computation**

<b>Project ID</b>	2350-00-00				<b>Total for Contract</b>
<b>Number of Staff Hours</b>	46				46
<b>Total Direct Labor</b>	\$1,736.98				\$1,736.98
<b>Total Overhead Costs</b>	\$3,547.27				\$3,547.27
<b>Fixed Fee/Profit</b>	\$396.31				\$396.31
<b>Direct Expenses</b>	\$67.20				\$67.20
<b>Subtotal</b>	<b>\$5,747.76</b>				<b>\$5,747.76</b>
<b>Subcontract 1</b>					\$0.00
<b>Subcontract 2</b>					\$0.00
<b>Subcontract Subtotal</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>TOTAL COST</b>	<b>\$5,747.76</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$5,747.76</b>

Company Wide Overhead Rate: 204.22

Fixed Fee: 7.5%