

REQUEST AUTHORIZATION FOR MAYOR AND FINANCE OFFICER TO SIGN PROFESSIONAL SERVICES AGREEMENT OR AMENDMENT

Date:

Project Name & Number: E. Custer Street Reconstruction – Milwaukee to Racine, #14-2211 and CIP #: 50916 & 50918
E. College Avenue Reconstruction – Milwaukee to Racine, #14-2212

Project Description: Preliminary Design, Final Design and Bidding Services for street and utility reconstruction of E. Custer Street – Milwaukee to Racine and E. College Avenue – Milwaukee to Racine.

Consultant: Advanced Engineering and Environmental Services, Inc.

Original Contract Amount: \$164,665.00 **Original Contract Date:** 3/2/2015 **Original Completion Date:** 2/29/2016

Addendum No:

Amendment Description:

Current Contract Amount: _____ **Current Completion Date:** _____
Change Requested: _____
New Contract Amount: \$0.00 **New Completion Date:** _____

Funding Source This Request:

Amount	Dept.	Line Item	Fund	Comments
\$49,399.50	833	423 4380	604	Sewer Replacement / Improvements
\$8,233.25	933	4381	602	Water Replacement / Improvements
\$90,565.75	8910	4370	505	Streets
\$16,466.50	8911	4374	505	Drainage
\$164,665.00	Total			

Agreement Review & Approvals

Sara Odden 2/12/2015
 Project Manager Date

Amber Sitts 2/13/15
 Compliance Specialist Date

Debra Tim 2-13-15
 Division Manager Date

Terry Watson 2-16-15
 Department Director Date

 City Attorney Date

ROUTING INSTRUCTIONS

Route two originals of the Agreement for review and signatures.
 Finance Office - Retain one original
 Project Manager - Retain second original for delivery to Consultant
 cc: Public Works
 Engineering
 Project Manager

FINANCE OFFICE USE ONLY

(Note to Finance: Please write date of Agreement in appropriate space in the Agreement document)

Date	Initials	Approved
2/17/15	[Signature]	Y N
Appropriation		Y N
Cash Flow		Y N

**Agreement Between City of Rapid City and Advanced Engineering and
Environmental Services, Inc. for Design and Bidding Professional Services for
E. Custer Street Reconstruction – Milwaukee to Racine,
Project No. 14-2211 / CIP No. 50916
E. College Avenue Reconstruction – Milwaukee to Racine,
Project No. 14-2212 / CIP No. 50918**

AGREEMENT made _____, 20____, between the City of Rapid City, SD (City) and Advanced Engineering and Environmental Services, Inc., (Engineer), located at 1560 Concourse Drive, Rapid City, SD 57703. City intends to obtain services for design and bidding for E. Custer Street Reconstruction – Milwaukee to Racine, Project No. 14-2211 CIP No. 50916 and E. College Avenue Reconstruction – Milwaukee to Racine, Project No. 14-2212 CIP No. 50918. The scope of services is as described within this document and as further described in Exhibits A, B and C (attached).

The City and the Engineer agree as follows:

The Engineer shall provide professional engineering services for the City in all phases of the Project and as further defined in Exhibits A, B and C (attached), serve as the City's professional engineering representative for the Project, and give professional engineering consultation and advice to the City while performing its services.

Section 1—Basic Services of Engineer

1.1 General

- 1.1.1 The Engineer shall perform professional services described in this agreement, which include customary engineering services. Engineer intends to serve as the City's professional representative for those services as defined in this agreement and to provide advice and consultation to the City as a professional. Any opinions of probable project cost, approvals, and other decisions provided by Engineer for the City are rendered on the basis of experience and qualifications and represent Engineer's professional judgment.
- 1.1.2 All work shall be performed by or under the direct supervision of a professional Engineer licensed to practice in South Dakota.
- 1.1.3 All documents including Drawings and Specifications provided or furnished by Engineer pursuant to this Agreement are instruments of service in respect of the Project and Engineer shall retain an ownership therein. Reuse of any documents pertaining to this project by the City on extensions of this project or on any other project shall be at the City's risk. The City agrees to defend, indemnify, and hold harmless Engineer from all claims, damages, and expenses including



attorney's fees arising out of such reuse of the documents by the City or by others acting through the City.

- 1.1.4 The contract will be based on an hourly rate and reimbursable fee schedule with a maximum not-to-exceed amount.

1.2 Scope of Work

The Engineer shall:

- 1.2.1 Consult with the City, other agencies, groups, consultants, and/or individuals to clarify and define requirements for the Project and review available data.
- 1.2.2 Perform the tasks described in the Scope of Services. (See Exhibit A.)
- 1.2.3 Conduct a location survey of the Project to the extent deemed necessary to provide adequate site information.
- 1.2.4 Prepare a report presenting the results of the study as outlined in the scope of services.

Section 2—Information Provided by City

The City will provide any information in its possession for the project at no cost to the Engineer.

Section 3—Notice to Proceed

The City will issue a written notification to the Engineer to proceed with the work. The Engineer shall not start work prior to receipt of the written notice. The Engineer shall not be paid for any work performed prior to receiving the Notice to Proceed.

Section 4—Mutual Covenants

4.1 General

- 4.1.1 The Engineer shall not sublet or assign any part of the work under this Agreement without written authority from the City.
- 4.1.2 The City and the Engineer each binds itself and partners, successors, executors, administrators, assigns, and legal representatives to the other party to this agreement and to the partners, successors, executors, administrators, assigns, and legal representatives of such other party, regarding all covenants, agreements, and obligations of this agreement.



- 4.1.3 Nothing in this agreement shall give any rights or benefits to anyone other than the City and the Engineer.
- 4.1.4 This agreement constitutes the entire agreement between the City and the Engineer and supersedes all prior written or oral understandings. This agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.
- 4.1.5 The Engineer shall make such revisions in plans which may already have been completed, approved, and accepted by the City, as are necessary to correct Engineer's errors or omissions in the plans, when requested to do so by the City, without extra compensation therefore.
- 4.1.6 If the City requests that previously satisfactorily completed and accepted plans or parts thereof be revised, the Engineer shall make the revisions requested by the City. This work shall be paid for as extra work.
- 4.1.7 If the City changes the location from the one furnished to the Engineer, or changes the basic design requiring a new survey for the portions so changed, the redesign will be paid for as extra work.
- 4.1.8 The City may at any time by written order make changes within the general scope of this Agreement in the work and services to be performed by the Engineer. Any changes which materially increase or reduce the cost of or the time required for the performance of the Agreement shall be deemed a change in the scope of work for which an adjustment shall be made in the Agreement price or of the time for performance, or both, and the Agreement shall be modified in writing accordingly. Additional work necessary due to the extension of project limits shall be paid for as extra work.
- 4.1.9 Extra work, as authorized by the City, will be paid for separately and be in addition to the consideration of this Section.
- 4.1.10 For those projects involving conceptual or process development services, activities often cannot be fully defined during the initial planning. As the project does progress, facts and conditions uncovered may reveal a change in direction that may alter the scope of services. Engineer will promptly inform the City in writing of such situations so that changes in this agreement can be renegotiated.
- 4.1.11 This Agreement may be terminated (a) by the City with or without cause upon seven days' written notice to the Engineer and (b) by the



Engineer for cause upon seven days' written notice to the City. If the City terminates the agreement without cause, the Engineer will be paid for all services rendered and all reimbursable expenses incurred prior to the date of termination.

If termination is due to the failure of the Engineer to fulfill its agreement obligations, the City may take over the work and complete it. In such case, the Engineer shall be liable to the City for any additional cost to the extent directly resulting from Engineer's action.

- 4.1.12 The City or its duly authorized representatives may examine any books, documents, papers, and records of the Engineer involving transactions related to this agreement for three years after final payment. All examinations will be performed at reasonable times, with proper notice. Engineer's documentation will be in a format consistent with general accounting procedures.
- 4.1.13 The City shall designate a representative authorized to act on the City's behalf with respect to the Project. The City or such authorized representative shall render decisions in a timely manner pertaining to documents submitted by the Engineer in order to avoid unreasonable delay in the orderly and sequential progress of the Engineer's services.
- 4.1.14 Costs and schedule commitments shall be subject to renegotiation for delays caused by the City's failure to provide specified facilities or information or for delays caused by other parties, excluding sub-contractors and sub-consultants, unpredictable occurrences including without limitation, fires, floods, riots, strikes, unavailability of labor or materials, delays or defaults by suppliers of materials or services, process shutdowns, acts of God, or the public enemy, or acts of regulations of any governmental agency or any other conditions or circumstances beyond the control of the City or Engineer. Temporary delays of services caused by any of the above which results in additional costs beyond those outlined may require renegotiation of this agreement.
- 4.1.15 The City will give prompt written notice to the Engineer if the City becomes aware of any fault or defect in the Project or nonconformance with the Project Documents.
- 4.1.16 Unless otherwise provided in this Agreement, the Engineer and the Engineer's consultants shall have no responsibility for the discovery, presence, handling, removal or disposal of, or exposure of persons to hazardous materials in any form at the project site, including but not



limited to asbestos products, polychlorinated biphenyl (PCB), or other toxic substances.

- 4.1.17 In the event asbestos or toxic materials are encountered at the jobsite, or should it become known in any way that such materials may be present at the jobsite or any adjacent areas that may affect the performance of Engineer's services, Engineer may, at their option and without liability for consequential or any other damages, suspend performance of services on the project until the City retains appropriate specialist CONSULTANT(S) or contractor(s) to identify, abate, and/or remove the asbestos or hazardous or toxic materials.
- 4.1.18 This agreement, unless explicitly indicated in writing, shall not be construed as giving Engineer the responsibility or authority to direct or supervise construction means, methods, techniques, sequences, or procedures of construction selected by any contractors or subcontractors or the safety precautions and programs incident to the work of any contractors or subcontractors.
- 4.1.19 Neither the City nor the Engineer, nor its Consultants, shall hold the other liable for any claim based upon, arising out of, or in any way involving the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids, or gases, waste materials, or other irritants, contaminants, or pollutants.
- 4.1.20 Neither the City nor the Engineer, nor its Consultants, shall hold the other liable for any claim based upon, arising out of, or any way involving the specification or recommendation of asbestos, in any form, or any claims based upon use of a product containing asbestos.
- 4.1.21 Engineer hereby represents and warrants that it does not fail or refuse to collect or remit South Dakota or City sales or use tax for transactions which are taxable under the laws of the State of South Dakota.



4.2 City of Rapid City NonDiscrimination Policy Statement

In compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination act of 1975, the Americans with Disabilities Act of 1990, and other nondiscrimination authorities it is the policy of the City of Rapid City, 300 Sixth Street, Rapid City, SD 57701-5035, to provide benefits, services, and employment to all persons without regard to race, color, national origin, sex, disabilities/handicaps, age, or income status. No distinction is made among any persons in eligibility for the reception of benefits and services provided by or through the auspices of the City of Rapid City.

Engineer will permit access to any and all records pertaining to hiring and employment and to other pertinent data and records for the purpose of enabling the Commission, its agencies or representatives, to ascertain compliance with the above provisions.

This section shall be binding on all subcontractors or suppliers.

Section 5—Payments to the Engineer

5.1 Schedule of Pay Rates

The City will pay the Engineer for services rendered or authorized extra work according to the Engineer's hourly and reimbursable rate schedule described in Exhibit C.

5.2 Fee

The maximum amount of the fee for the services as detailed in Section 1.2 shall not exceed \$164,665.00 unless the scope of the project is changed as outlined in Section 4. If expenses exceed the maximum amount, the Engineer shall complete the design as agreed upon here without any additional compensation. Sub task dollar amounts may be reallocated to other tasks as long as the total fee is not exceeded. Prime consultant may not mark up sub-consultant or sub-contractor services.

5.3 Progress Payments

Monthly progress payments shall be processed by the City upon receipt of the claim as computed by the Engineer based on work completed during the month per the hourly rates and allowable reimbursable as established in Section 5.1 and approved by the City.

Net payment to the Engineer shall be due within forty-five (45) days of receipt by the City.



Section 6—Completion of Services

The Engineer shall complete services on or before February 29, 2016 based on an award date of March 2, 2015.

Section 7—Insurance Requirements

7.1 Insurance Required

The Engineer shall secure the insurance specified below. The insurance shall be issued by insurance company(s) acceptable to the City and may be in a policy or policies of insurance, primary or excess. Certificates of all required insurance including any policy endorsements shall be provided to the City prior to or upon the execution of this Agreement.

7.2 Cancellation

The Engineer will provide the City with at least 30 days' written notice of an insurer's intent to cancel or not renew any of the insurance coverage. The Contractor agrees to hold the City harmless from any liability, including additional premium due because of the Contractor's failure to maintain the coverage limits required.

7.3 City Acceptance of Proof

The City's approval or acceptance of certificates of insurance does not constitute City assumption of responsibility for the validity of any insurance policies nor does the City represent that the coverages and limits described in this agreement are adequate to protect the Engineer, its consultants or subcontractors interests, and assumes no liability therefore. The Engineer will hold the City harmless from any liability, including additional premium due, because of the Engineer's failure to maintain the coverage limits required.

7.4 Specific Requirements

7.4.1 Workers' compensation insurance with statutory limits required by South Dakota law. Coverage B-Employer's Liability coverage of not less than \$500,000 each accident, \$500,000 disease-policy limit, and \$500,000 disease-each employee.

7.4.2 Commercial general liability insurance providing occurrence form contractual, personal injury, bodily injury and property damage liability coverage with limits of not less than \$1,000,000 per occurrence, \$2,000,000 general aggregate, and \$2,000,000 aggregate products and completed operations. If the occurrence form is not available, claims-made coverage shall be maintained for three years after



completion of the terms of this agreement. The policy shall name the City and its representatives as an additional insured.

7.4.3 Automobile liability insurance covering all owned, nonowned, and hired automobiles, trucks, and trailers. The coverage shall be at least as broad as that found in the standard comprehensive automobile liability policy with limits of not less than \$1,000,000 combined single limit each occurrence. The required limit may include excess liability (umbrella) coverage.

7.4.4 Professional liability insurance providing claims-made coverage for claims arising from the negligent acts, errors or omissions of the Engineer or its consultants, of not less than \$1,000,000 each occurrence and not less than \$1,000,000 annual aggregate. Coverage shall be maintained for at least three years after final completion of the services.

Section 8—Hold Harmless

The Engineer hereby agrees to hold the City harmless from any and all claims or liability including attorneys' fees arising out of the professional services furnished under this Agreement, and for bodily injury or property damage arising out of services furnished under this Agreement, providing that such claims or liability are the result of a negligent act, error or omission of the Engineer and/or its employees/agents arising out of the professional services described in the Agreement.

Section 9—Independent Business

The parties agree that the Engineer operates an independent business and is contracting to do work according to his own methods, without being subject to the control of the City, except as to the product or the result of the work. The relationship between the City and the Engineer shall be that as between an independent contractor and the City and not as an employer-employee relationship. The payment to the Engineer is inclusive of any use, excise, income or any other tax arising out of this agreement.

Section 10-Indemnification

If this project involves construction and Engineer does not provide consulting services during construction including, but not limited to, onsite monitoring, site visits, site observation, shop drawing review and/or design clarifications, City agrees to indemnify and hold harmless Engineer from any liability arising from the construction activities undertaken for this project, except to the extent such liability is caused by Engineer's negligence.

Section 11-Controlling Law and Venue



This Agreement shall be subject to, interpreted and enforced according to the laws of the State of South Dakota, without regard to any conflicts of law provisions. Parties agree to submit to the exclusive venue and jurisdiction of the State of South Dakota, 7th Judicial Circuit, Pennington County.

Section 12-Severability

Any unenforceable provision herein shall be amended to the extent necessary to make it enforceable; if not possible, it shall be deleted and all other provisions shall remain in full force and effect.

Section 13—Funds Appropriation

If funds are not budgeted or appropriated for any fiscal year for services provided by the terms of this agreement, this agreement shall impose no obligation on the City for payment. This agreement is null and void except as to annual payments herein agreed upon for which funds have been budgeted or appropriated, and no right of action or damage shall accrue to the benefit of the Engineer, its successors or assignees, for any further payments. For future phases of this or any project, project components not identified within this contract shall not constitute an obligation by the City until funding for that component has been appropriated.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement as of the day and year first above written.

City of Rapid City:

MAYOR

DATE: _____

ATTEST:

FINANCE OFFICER

Engineer:

Thomas Schuy
Advanced Engineering and Environmental
Services Inc.

DATE: 2/16/15



Reviewed By:

Sara Odden
SARA ODDEN, PROJECT MANAGER

DATE: 2/12/2015

**CITY'S DESIGNATED PROJECT
REPRESENTATIVE**

NAME Sara Odden
PHONE (605) 394-4154
EMAIL sara.oddn@rcgov.org

**ENGINEERING FIRM'S DESIGNATED
PROJECT REPRESENTATIVE**

NAME Rich Marsh
PHONE (605) 374-7800
EMAIL Rich.Marsh@ae2s.com



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

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


PRODUCER MN-COMMERCIAL LINES COBB STRECKER DUNPHY & ZIMMERMANN 150 S FIFTH ST STE 2800 MINNEAPOLIS, MN 55402	CONTACT NAME: PHONE (A/C, No, Ext): 612 349-2400	FAX (A/C, No): 612 349 2490
	E-MAIL ADDRESS:	
INSURED ADVANCED ENGINEERING & ENVIRONMENTAL SERVICES INC 4050 GARDEN VIEW DR SUITE #200 GRAND FORKS, ND 58201	INSURER(S) AFFORDING COVERAGE	
	INSURER A : ENDURANCE AMERICAN SPECIALTY IN	NAIC # 10641
	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	

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

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

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y/N N/A (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						<input type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	ARCHITECTS & ENGR PROFESSIONAL LIAB CLAIMS MADE			PPL10002972303	01/25/2014	02/17/2015	LIMIT: \$2,000,000 AGGREGATE: \$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
P00549-2014-064 E CUSTER ST AND E COLLEGE AVE RECONSTRUCTION
PROJECT NOS. 14-2211/CIP 50916 & 14-2212/CIP 50918

CITY OF RAPID CITY 300 SIXTH ST RAPID CITY, SD 57701	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

**EXHIBIT A
SCOPE OF SERVICES**

**E. Custer Street Reconstruction & E. College Avenue Reconstruction
Milwaukee to Racine
Project Nos. 14-2211 / CIP 50916 & 14-2212 / CIP 50918**

The City of Rapid City has requested professional services including Task 1-Preliminary Design Services, Task 2-Final Design Services, and Task 3-Bidding Services for the E. Custer Street Reconstruction & E. College Avenue Reconstruction, Milwaukee to Racine projects. This project will be divided into two separately bid projects. E. Custer Street Reconstruction will be bid under Project No. 14-2211 / CIP 50916, in February 2016, and E. College Avenue Reconstruction will be bid under the Project No. 14-2212 / CIP 50918, in December 2015. Tasks 4&5-Basic Construction Services and Expanded Construction Services respectfully may be negotiated at a later date as a separate contract.

Proposed improvements include new sanitary sewer mains and sewer service lines, extending new sanitary sewer mains to eliminate non-conforming sanitary sewer service lines, minor water main work, possible storm sewer improvements, and fully reconstructing College Avenue and Custer Street including ADA compliant sidewalk ramps, fillets and driveway approach pavements. Existing sidewalks are anticipated to remain as 'property line' and shall remain in place except in places where service lines necessitate replacement.

It is anticipated that the improvements will include the following:

1. Reconstruction of the existing VCP sanitary sewer mains with PVC mains and extend new sanitary mains to provide a main for the non-conforming sanitary sewer service lines (1000 and 1018 Milwaukee Street). Reconstruct the sanitary sewer service lines to the property lines.
2. Install new water service lines from the existing main to the property lines. Water mains were replaced in 1987 with 6" PVC so new mains are not anticipated. Additional water main improvements include installation of cathodic main anodes.
3. Evaluate whether storm sewer is necessary and if so, where it should be constructed to meet the Infrastructure Design Criteria Manual (IDCM). Pipe size and inlet locations shall be designed by the Consultant to meet the IDCM requirements. Evaluate if sump pumps exist and where they discharge.
4. Reconstruct the streets with new curb and gutter and pavement. Consultant shall design the pavement section and street geometry. Evaluate the pavement types and determine if it would be beneficial to bid alternates for the pavement types and pavement sections (PCC and Asphalt). Determine if edge drains should be installed. Handicap ramps shall be constructed at all intersections.

Advanced Engineering and Environmental Services, Inc. submitted a proposal, interviewed and was selected via the City of Rapid City's Engineering Consultant selection process to provide Survey and Engineering Services for Task 1 through Task 3. Tasks 4 and 5 may be requested and negotiated with a separate contract at a later date.

TASK 1 - PRELIMINARY DESIGN SERVICES (College Ave. and Custer Street):

- 1.1 Kick-off Conference: The consultant will meet with City staff to detail project concept and scope. The consultant shall prepare an agenda, take minutes, and distribute minutes.
- 1.2 Review background information listed in this RFP, and other resources. Obtain and review water and sewer cards.
- 1.3 Perform topographic site surveys for design plan preparation. The route and topography survey will be tied to at least two City of Rapid City Monument Control system monuments utilizing State Plane coordinates.
 - Obtain existing plats from Courthouse
 - Property Owner Identification from Rapid Map
 - Coordinate with SD One call for Utility Locates
- 1.4 Develop and distribute a survey questionnaire to property owners adjacent to proposed construction areas approximately 3 months or more ahead of soliciting bids for construction. The questionnaire will be developed to obtain information on site-specific concerns such as landscaping or irrigation systems, service line locations, special needs such as access considerations during construction, or history of utility or infrastructure problems at the property. Questionnaires will be returned to AE2S and evaluated by AE2S. Follow up with appropriate individual contact with property owners prior to completion of 100% plans and contract documents to review project considerations that may be addressed or mitigated by the project work. Arrange and conduct affected property owner(s) meetings.
- 1.5 Meet with individual property owners regarding ROW and permanent and temporary easement needs and regarding specific project issues and components. It is anticipated that this task will be combined with Task 2.18.
- 1.6 Private Utilities Base Plan Verification Meeting: Request the private utilities' verification that their utilities are shown correctly per their records. A meeting with the private utilities will be scheduled after submitting plans to verify that the utilities are shown correctly and to make plan revisions.
- 1.7 Conceptual Design Submittal.

The Conceptual Design Submittal shall generally consist of the following documents:

- A. Conceptual Design Report
 - a. Establish and indicate project specific design criteria and standards within the Conceptual Design Report
 - b. Submit all design assumptions for pipe sections, water, sewer, and storm sewer locations, pavement sections, etc. including design life, design criteria, reference of design resources. The City Infrastructure Design Criteria Manual will be used to establish design criteria and standards.
 - c. Evaluate and recommend pavement design; based on a life cycle cost analysis.
 - d. Preliminary horizontal and vertical alignments for utilities, roadways.
 - e. Project phasing and limits
 - f. Establish pipe sizes
 - g. Establish lane configurations
 - h. Check and determine drainage system capacity
 - i. Provide recommendations for the proposed facility and analysis of alternatives.

- j. The project's geotechnical report shall be included within the Conceptual Project Design Report and include soil classifications, N values, water levels, proctors, CBR's, resistivity tests, pavement design, and testing recommendations. The Consultant shall elaborate on other project components as necessary.
- k. A probable opinion of construction costs for the project(s) shall be included. The costs shall be itemized based on the City's standard bid items and appropriate contingency item allowance.
- l. Identify if project specific design criteria are needed and list within the Conceptual Design Report.
- m. Review of drainage calculations and compare pipe sizes and inlet spacing compared to pipe sizes and inlets needed to meet City criteria.
- n. Provide review of compliance with City's Standard Specifications for construction of the project(s).
- o. Identify the existing right-of-way (ROW) location and any ROW or easements necessary for the Project. Include size and extent of such ROW and easements and contact information of property owners.
- p. Identify non-conforming water and sewer service lines and include a map showing a proposed solution to making them conform with the City's current standards.
- q. Submit three (3) copies and a PDF version of the Conceptual Design Report and preliminary plans and specifications to City of Rapid City's project manager for review and comment.

B. Conceptual Drawings

Provide three (3) copies and a PDF version of the conceptual drawings. The conceptual drawings shall contain the following sheets:

- a. Cover Sheet – Note the index of Sheets indicating the anticipated drawing sheets shall be provided.
- b. Survey Control Sheet
- c. Anticipated traffic control phasing and erosion control measures
- d. Property Layout and Land Ownership
- e. Plan and Profile Sheets - Show existing and proposed utility mains and existing services, storm sewers, driveway locations, fittings, and proposed surfacing and drainage items. The utilities should be shown in profile as well. Design Criteria elements like profile grades, "K" values, vertical and horizontal curve data should be included.
- f. Anticipated Rapid City Standard Details
- g. Special Details - Conceptual layouts for special/critical elements for example buildings, special drainage structures, pump facilities, etc.
- h. Plan sheets shall be prepared utilizing the latest City of Rapid City Drafting Standards.

1.8 Attend submittal review meeting with City staff, if necessary.

1.9 This task has been excluded from the scope of work.

TASK 2 - FINAL DESIGN SERVICES (College Ave and Custer Street):

- 2.1 Address City comments from the Task 1 City review(s) and finalize Conceptual Design Report. The Conceptual Design Report will now be titled "Project Design Report",
- 2.2 Provide project layout to include lot lines (front and side) and addresses of all properties (adjacent to construction). Identify if property is owner occupied or a rental.
- 2.3 Determine removal limits with approval of City of Rapid City representative.
- 2.4 Coordinate with the geotechnical engineer to complete investigative services and provide a geotechnical report to be included in the Project Design Report and project plans or specifications
- 2.5 Incorporate design features to meet the requirements outlined in the Project Design Report
- 2.6 Incorporate ADA compliance items. Applicable ADA requirements shall be outlined in the Project Design Report;
- 2.7 Complete a storm water pollution prevention narrative and erosion and sediment control site plan for temporary and permanent erosion control measures.
- 2.8 Complete detailed traffic control plans showing traffic control devices required for a MUTCD compliant plan. Show streets and alleys that may be impacted by this project. Show existing signage, pavement markings, etc. Work zones, road closures, lane closures, and pavement marking removals shall be indicated on the plan.
- 2.9 Complete a Project Sequence of implementation and phasing schedule, which shall include such items as traffic control, erosion and sediment control, utility installations, paving, restoration, and construction milestones.
- 2.10 The City's Project Manager will issue a letter to the private utilities requesting their intentions as to leaving their existing infrastructure as is or if their intent is to replace all or a portion of it. If a private utility intends to replace their infrastructure, AE2S will coordinate a location corridor for the utilities and show the proposed location on the drawings. Indicate if the private utilities intend to abandon or replace the infrastructure prior to or during this project's construction. Coordinate directly with utility companies' engineering divisions to ensure that all existing utilities are completely and accurately identified and located in the field; that pertinent information regarding depth, material, size, etc. are noted on the plans; and that conflicts requiring relocation of utilities or special construction techniques are noted in the contract documents. Preliminary plans will be provided to the pertinent utilities for comment at the time they are complete followed by a specific private utility coordination meeting in two to three weeks.
- 2.11 Notify the City Project Manager if private utilities will need to be relocated so PM can formally notify the utilities to relocate.
- 2.12 No work anticipated this task. This task excluded from the scope of work.
- 2.13 Provide detailed specifications supplementing the City of Rapid City Standard Specifications, if necessary. Typically project drawing specific issues will be indicated as a General Note on the drawings. Material types and material specific items will be included as a detailed specification.
- 2.14 Obtain design exceptions for Infrastructure Design Criteria manual requirements if needed.
- 2.15 Provide complete plans and specifications for a unit price construction contract. Plan sheets shall be prepared utilizing the latest City of Rapid City Drafting Standards.

- 2.16 Plans documents shall adhere to current City of Rapid City guidelines.
- 2.17 Staking information shall include either of the following formats:
- On the Plans
 - Station offsets for all items of work requiring field staking.
 - In tabular form on a plan sheet (schedule)
 - Coordinates and description of inter-visible control points.
 - Coordinates of all items of work requiring field staking.
 - Benchmark information shall be provided on each sheet.
- 2.18 Act as the City's Agent to complete the following tasks: easement(s) acquisition, and obtain property owner contact information, prepare easement and ROW exhibits, provide copies of current deeds on properties where easements are needed, conduct property owner meetings for easement and ROW acquisition, and document acquisition meetings.
- 2.19 If federally funded, incorporate NEPA requirements, wetland mitigation, monetary, ROW certification, environmental certification, SHPO, Architectural, Catx noise analysis, FONSI, etc. No work anticipated for this task. This task is excluded from the scope of work.
- 2.20 Provide two (2) copies and a PDF version of the finalized Project Design Report,
- 2.21 Provide three (3) copies and a PDF version of the Final Design Services submittal. The submittal shall consist of complete plans, specifications, contract documents, and opinion of probable construction cost to the City of Rapid City's project manager for review.
- 2.22 Address 100% submittal staff comments.
- 2.23 All submittals (drawings and specifications) believed by the Engineer of Record to be a final, shall contain a Certification Statement of Conformance with City Standards which shall read, "I (insert Engineer of Record's name) Certify that I have read and understand the provisions contained in the City of Rapid City Standard Specifications for Public Works Construction, current edition and the City of Rapid City's adopted Design Criteria Manuals. The drawings and specifications contained here within, to the best of my knowledge, were prepared in accordance with these documents or a properly executed exception to the Standard Specifications and/or Infrastructure Design Criteria Manual has been secured". This statement shall appear on the title sheet of the drawings and on the first page of specifications after the cover sheet. The "Certification Statement of Conformance with City Specifications" shall be signed and dated by the Engineer of Record.
- 2.24 Prepare required permits with exhibits the City will need to execute for the project. No work anticipated this task. This task is excluded from the scope of work.
- 2.25 Identify permits that will be required for the Contractor. Identify permit costs and indicate if any permit costs are paid for directly by the owner or if it is a Contractor cost. Typically, all permit costs are the Contractor's obligation, except as indicated in the City's contract front-end documents.
- 2.26 Prepare final "Engineer's Estimate" of probable construction cost for the project.
- 2.27 Deliver the following to the City:
- Provide one (1) copy and a PDF version of bid documents including complete plans, specifications, and Engineer's Estimate of probable construction cost to the City of Rapid City's project manager for City distribution.
 - Provide complete plans on CD compatible with AutoCAD Release 2008 or newer format.

- Provide topographic, control, and design points in the .dwg file and in tabular format, both on CD and on hard copy printout
 - Provide complete specifications and contract documents on CD in Microsoft Word XP or previous versions.
 - Provide a unit price cost estimate on CD in Microsoft Excel XP or previous version on the City of Rapid City “Engineer’s Estimate” form.
 - Provide Engineer’s Estimate of probable construction costs as a component of this submittal.
 - Print and distribute five (5) copies of plans/drawings to the City of Rapid City at 11” x 17” scale for construction services personnel.
- 2.28 Prior to the advertisement for bids, arrange and conduct a public open house with affected residents. The open house will be held sufficiently ahead of the project advertisement for bids such that public comments and concerns may still be addressed within the final project documents. Notice of the open house will be mailed to all property owners adjacent to the proposed work area(s), as well as those in the immediate area who may be directly impacted by the construction, as determined by the City. This mailing shall be completed by AE2S utilizing City letterhead bearing the City Project Manager signature. Tabulate the public comments and concerns and provide written recommendations for staff review regarding possible inclusion or exclusion of such requests.
- 2.29 Address comments or concerns from Department of Environment and Natural Resources Plans Review
- 2.30 This task has been excluded from the Scope of Work.

TASK 3 – BIDDING SERVICES(College Ave. and Custer Street) :

- 3.1 Submit information to the City of Rapid City project manager for completion of City Advertising Authority form.
- 3.2 Proof print plans quality at printers before full production of copies are made.
- 3.3 Arrange and conduct a Pre-bid Conference, prepare an agenda and record attendance and minutes. Distribute minute copies to the City only.
- 3.4 Prepare and issue addenda to the bid documents if required.
- 3.5 No work anticipated this task. This task is excluded from the scope of work.
- 3.6 Review Bidder’s Proposals and review and sign the City Engineering Services prepared Bid Tab, and prepare an award recommendation letter to the City of Rapid City project manager.
- 3.7 Prepare “As Built” plans and specifications. A hard copy of “As Built” plans and specifications will be submitted to the City in the same size and format as construction plans. Additionally, the Consultant will provide PDF’s and CAD files on a CD or DVD. The digital submittal will be compatible with AutoCAD Civil 3D 2010. AE2S will work with the City CAD Technician, in person, to demonstrate the CAD file operation. If Tasks 4 and 5 are contracted, “As Built” plans and specifications will be provided thirty (30) days following project acceptance. However, if Tasks 4 and 5 are not contracted, “As Built” plans shall be provided thirty (30) days following the Consultants receipt of City markups/redlines.

SUBMITTALS

- A. Meeting minutes for all meetings that Engineer attends on behalf of the City of Rapid City.
- B. Conceptual Design Report and Preliminary Plan Review Submittal.
- C. Final Project Design report bound utilizing a comb binder or equal.
- D. Final Plans for Review.
- E. 100% complete plans, specifications, contract documents, and opinion of Probable construction costs.
- F. Open house comments/concerns and consultant's recommendation for inclusion or exclusion in project.
- G. Bid Tab and award recommendation.

ADDITIONAL SERVICES

Additional Services Requiring Owner's Advance Written Authorization. If authorized in writing by Owner, Engineer shall furnish or obtain from others, additional services of the types listed below:

- A. Preparation or review of environmental assessments and impact statements; review and evaluation of the effects on the design requirements for the Project of any such statements and documents prepared by others; and assistance in obtaining approvals of authorities having jurisdiction over the anticipated environmental impact of the Project (which are not part of Basic Services).
- B. Preparation of traffic impact studies, traffic capacity analysis, or pedestrian studies.
- C. Services resulting from significant changes in the scope, extent, or character of the portions of the Project designed or specified by Engineer or its design requirements including, but not limited to, changes in size, complexity, Owner's schedule, character of construction, or method of financing; and revising previously accepted studies, reports, Drawings, Specifications, or Contract Documents when such revisions are required by changes in Laws and Regulations enacted subsequent to the Effective Date of this Agreement or are due to any other causes beyond Engineer's control. Engineer will notify Owner within 48 hours once Engineer is aware of a change and will not proceed without written direction from Owner.
- D. Services resulting from Owner's request to evaluate additional Study and Report Phase alternative solutions beyond those identified in Exhibit A.
- E. Services required as a result of Owner's providing incomplete or incorrect Project information to Engineer.
- F. Undertaking investigations and studies including, but not limited to, detailed consideration of operations, maintenance, and overhead expenses; the preparation of feasibility studies, cash flow and economic evaluations, rate schedules, and appraisals; assistance in obtaining financing for the Project; evaluating processes available for licensing, and assisting Owner in obtaining process licensing; detailed quantity surveys of materials, equipment, and labor; and audits or inventories required in connection with construction performed by Owner.

- G. Furnishing services of Engineer's Consultants for other than Services identified in Exhibit A.
- H. Preparing for, coordinating with, participating in and responding to structured independent review processes, including, but not limited to, construction management, cost estimating, project peer review, value engineering, and constructability review requested by Owner; and performing or furnishing services required to revise studies, reports, Drawings, Specifications, or other Bidding Documents as a result of such review processes.
- I. Preparing additional Bidding Documents or Contract Documents for work outside of the scope identified in Exhibit A requested by Owner for the Work or a portion thereof.
- J. Assistance in connection with Bid protests, re-bidding, or renegotiating contracts for construction, materials, equipment, or services. Re-bidding or renegotiating contracts to reduce the contract costs to funds available shall be considered Additional Services.
- K. Providing Construction Phase services and Construction Staking services. It is anticipated that these services will be negotiated for Tasks 4 & 5 if requested.
- L. Preparing to serve or serving as a consultant or witness for Owner in any litigation, arbitration, or other dispute resolution process related to the Project.
- M. Providing more extensive services required to enable Engineer to issue notices or certifications requested by Owner other than those outlined in Exhibit A.
- N. Additional Services not identified at inception of project-Services resulting from changes in scope, extent, or character of the project are not included as part of the above Scope of Services. If required, or requested by the Client, AE2S will provide additional services on an hourly basis in accordance with Exhibit C.
- O. Private utility design services are not included. AE2S will coordinate with private utilities on a corridor within the ROW if utilities decide to relocate or reconstruct existing facilities.

ANTICIPATED PROJECT SCHEDULE

Below are anticipated timeframes for each phase of work based on the Request for Proposal dates.

Anticipated Notice to Proceed..... March 2 - 9, 2015

College Avenue and Custer Street Reconstruction – Milwaukee to Racine

Survey Complete..... March 20, 2015
 College and Custer Conceptual Design Submittal June 5, 2015
 College and Custer Final Design and Plans August 28, 2015
 100% Plans and Specifications Bid Package October 2, 2015
 College Ave. Bid Opening December 2015
 Custer St. Bid Opening February 2016

EXHIBIT B

DESIGN AND BIDDING SERVICES for Tasks 1, 2 and 3
E. Custer Street Reconstruction & E. College Avenue Reconstruction
Milwaukee to Racine
Project Nos. 14-2211 / CIP 50916 & 14-2212 / CIP 50918
Advanced Engineering and Environmental Services, Inc.
TASK SCHEDULE
February 10, 2015

TASK	1 Preliminary Design Services (College Ave. and Custer St.)	Task Cost
1.1	Kick-off conference	\$ 318.00
1.2	Assemble and review background information-plans	\$ 1,846.00
1.3	Site Survey and Prepare Base Plan	\$ 21,395.00
1.4	Develop and distribute a survey questionnaire to property owners	\$ 1,016.00
1.5	This Task Combined with Task 2.18	\$ -
1.6	Private Utilities Base Plan Verification Meeting	\$ 726.00
1.7	Conceptual Design Submittal	\$ 40,341.00
1.8	Submittal Review Meeting	\$ 547.00
1.9	No work anticipated this task	\$ -
	Supplies, Mileage, Printing allowances	\$ 300.00
	Subconsultant - American Engineering Testing, Inc.	\$ 6,410.00
	Subtotal / Preliminary Design Services	\$ 72,899.00

TASK	2 Final Design Services (College Ave. and Custer St.)	Task Cost
2.1	Address City comments from Task 1 City review and finalize Conceptual Design Report "Project Design Report"	\$ 3,691.00
2.2	Provide project layout with lot lines and address for properties adjacent to construction and identify if owned or rented	\$ 1,516.00
2.3	Determine removal limits with City representative	\$ 458.00
2.4	Coordination with Geotechnical Engineer for geotechnical investigation	\$ 363.00
2.5	Incorporate design features to meet Project Design Report Requirements	\$ 3,487.00
2.6	Incorporate ADA requirements	\$ 2,671.00
2.7	Provide SWPPP narrative and Erosion Control Plan	\$ 6,799.00
2.8	Provide detailed traffic control plans showing all devices required for a MUTCD compliant plan	\$ 5,712.00
2.9	Provide a project sequence of implementation and phasing schedule	\$ 4,782.00
2.10	Private Utilities Coordination	\$ 2,680.00
2.11	Notify City Project Manager if private utilities will need to be relocated	\$ 140.00
2.12	No work this Task	\$ -
2.13	Provide detailed specifications	\$ 904.00
2.14	Obtain a design exception for Infrastructure Design Criteria manual requirements if needed	\$ 814.00
2.15	Provide complete plans and specifications for a unit price construction contract	\$ 17,104.00
2.16	No work this task	\$ -
2.17	Station offsets for items of work requiring field staking	\$ 1,159.00
2.18	Easement Acquisition (Estimated at 6 easements)	\$ 8,256.00
2.19	No work anticipated this Task	\$ -
2.20	Provide 2 copies and a PDF version of finalized Project Design Report	\$ 578.00
2.21	Internal Review and Provide 3 copies and a PDF of the Final Design Services submittal	\$ 1,925.00
2.22	Address 100% submittal staff comments	\$ 5,423.00

EXHIBIT B

DESIGN AND BIDDING SERVICES for Tasks 1, 2 and 3
E. Custer Street Reconstruction & E. College Avenue Reconstruction
Milwaukee to Racine
Project Nos. 14-2211 / CIP 50916 & 14-2212 / CIP 50918
Advanced Engineering and Environmental Services, Inc.
TASK SCHEDULE
February 10, 2015

TASK	2 Final Design Services (College Ave. and Custer St.)	Task Cost
2.23	Certification Statement of Conformance	\$ 140.00
2.24	No work anticipated this Task	\$ -
2.25	Identify permits required of Contractor and list in plans	\$ 229.00
2.26	Prepare Final Engineer's Estimate	\$ 1,167.00
2.27	Complete Final Bid Package	\$ 1,348.00
2.28	Arrange and Conduct public Open House with Adjacent Residents	\$ 2,772.00
2.29	Address DENR comments and/or corrections	\$ 280.00
	Supplies, Mileage, Printing allowances	\$ 230.00
	Subtotal / Final Design Services	\$ 74,628.00

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TASK	3 Bidding Services (College Avenue)	Task Cost
3.1	Submit information to City for advertising	\$ 140.00
3.2	Proof print quality at printer's before production	\$ 280.00
3.3	Arrange and conduct Pre-Bid Conference	\$ 892.00
3.4	Prepare and issue addenda	\$ 2,631.00
3.5	No work anticipated this Task	\$ -
3.6	Bid Proposal Review and Recommendations	\$ 485.00
3.7	As-Built Plans	\$ 4,108.00
	Supplies, Mileage, Printing allowances	\$ 33.00
	Subtotal / Bidding Services	\$ 8,569.00

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TASK	3 Bidding Services (Custer Street)	Task Cost
3.1	Submit information to City for advertising	\$ 140.00
3.2	Proof print quality at printer's before production	\$ 280.00
3.3	Arrange and conduct Pre-Bid Conference	\$ 892.00
3.4	Prepare and issue addenda	\$ 2,631.00
3.5	No work anticipated this Task	\$ -
3.6	Bid Proposal Review and Recommendations	\$ 485.00
3.7	As-Built Plans	\$ 4,108.00
	Supplies, Mileage, Printing allowances	\$ 33.00
	Subtotal / Bidding Services	\$ 8,569.00

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TOTAL ESTIMATED FEES - Tasks 1, 2 and 3	\$ 164,665.00
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Note: AE2S shall retain the right to reallocate task costs subject to the maximum limiting fee.

EXHIBIT C

**E. Custer Street Reconstruction & E. College Avenue Reconstruction
Milwaukee to Racine
Project Nos. 14-2211 / CIP 50916 & 14-2212 / CIP 50918**

AE2S. Inc. Labor Rates

Position Title	Billing Rate
Operations Manager	\$175.00/hr.
Project Manager	\$140.00/hr.
Project Engineer	\$89.00/hr.
Construction Services Manager	\$121.00/hr.
Engineering Technician	\$83.00/hr.
Survey Manager	\$108.00/hr.
Surveyor I	\$89.00/hr.
Construction Technician II	\$78.00/hr.
Construction Technician III	\$92.00/hr.
Office Administrator	\$78.00/hr.
Administrative Assistant	\$65.00/hr.

Reimbursable Expenses

Project Travel – Transportation Vehicle	\$0.65/mile
Project Travel – ¾ Ton Vehicle	\$0.70/mile
Photocopies	\$0.10/page
Plots – Color Bond.....	\$1.25/sf
Plots – Monochrome Bond / Vellum	\$0.75/sf
Plots – Film/Photo High Gloss	\$2.00/sf
Total Station - Robotic	\$35.00/hour
Pro-XR GPS.....	\$15/hour
Fast Static/RTK GPS.....	\$50/hour
3D Laser Scanner.....	\$100/hour
Survey Monuments.....	\$5/each
Fence Posts	\$8/each
Survey Lath.....	\$22/bundle
Survey Stakes / Hubs.....	\$13/bundle
All Terrain Vehicle / Boat.....	\$100/day

American Engineering Testing, Inc. Labor Rates

Position Title	Billing Rate
Senior Geotechnical Engineer	\$150.00/hr.
Geotechnical Engineer / Project Manager	\$100.00/hr.
Materials Engineer	\$95.00/hr.
Senior Field Engineering Technician	\$75.00/hr.
Engineering Technician	\$60.00/hr.
2-Man Drill Crew Mobilization	\$130.00/hr.
Draft Person	\$75.00/hr.
Clerical	\$45.00/hr.

Reimbursable Expenses

Mileage

Rig Mileage (Rapid City Area)..... \$0.70/mile
 Pickup Mileage \$0.70/mile

Soil Borings

SPT Drilling (Soil Borings)..... \$20.00/ft.

Soils Testing

Proctor (Standard or Modified)..... \$140.00/each
 Dry Density \$15.00/each
 Moisture Content \$10.00/each
 Atterburg Limits (LL and PL) \$85.00/each
 Gradation (including #200)..... \$75.00/each
 #200 Only \$60.00/each
 Consolidation / Swell..... \$125.00/each
 CBR (1 Point)..... \$140.00/each
 Water Soluble Sulfate..... \$30.00/each
 pH & Resistivity \$60.00/each
 Direct Shear (3 Points)..... \$350.00/each
 Permeability \$250.00/each
 Unconfined Compression..... \$125.00/each

Concrete Testing

Curing / Testing of Test Cylinders..... \$24.00/each
 Trimming of Cylinder End (if required)..... \$35.00/each
 Curing / Testing of Mortar / Grout Cubes \$45.00/each
 Compressions Tests of Cores..... \$45.00/each
 Compressions Tests of Masonry Prisms \$150.00/each
 Flexural Beam Strength \$50.00/each