

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

Date: 3/24/15

Project Name & Number: Countryside Subdivision Water System Conversion Project 15-2257

CIP #51086

Project Description: Convert existing water system to the City's Water System.

Consultant: Advanced Engineering and Environmental Services, Inc.

Original Contract Amount: \$109,501.00

Original Contract Date: 4/6/15

Original Completion Date: 8-31-16

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
\$94,171.00	833-750	4223	604-402	
\$15,330.00	833	4223	604	
\$109,501.00	Total			

Agreement Review & Approvals

Keith Johnson 3/24/15
Project Manager Date

Alan Kim 3-24-15
Division Manager Date

Compliance Specialist Date

TW 3-24-15
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
3/25/15	AK	<input checked="" type="radio"/> Y <input type="radio"/> N
		<input type="radio"/> Y <input type="radio"/> N

**Agreement Between City of Rapid City and Advanced Engineering and
Environmental Services, Inc. for Design and Bidding Professional Services for
Countryside Subdivision Water System Conversion,
Project No. 15-2257**

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 Countryside Subdivision Water System Conversion, Project No. 15-2257 CIP No. 51086. 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 \$109,501.00 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 August 31, 2016 based on an award date of April 6, 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:

Engineer:

MAYOR

ADVANCED ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

DATE: _____

DATE: _____

ATTEST:

FINANCE OFFICER

Reviewed By:

Keith Johnson

KEITH JOHNSON, PROJECT MANAGER

DATE: 3/24/15

CITY'S DESIGNATED PROJECT REPRESENTATIVE

ENGINEERING FIRM'S DESIGNATED PROJECT REPRESENTATIVE

NAME Keith Johnson
PHONE (605)394-4154
EMAIL keith.johnson@rcgov.org

NAME Richard Marsh
PHONE (605)341-7800
EMAIL rich.marsh@ae2s.com



**EXHIBIT A
SCOPE OF SERVICES**

**Countryside Subdivision Water System Conversion
Project Nos. 15-2257 / CIP 51086**

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 and Task 6 –City of Rapid City Supplemental Requests for the Countryside Subdivision Water System Conversion project. This project will be done in two phases. Tasks 4&5-Basic Construction Services and Expanded Construction Services respectfully may be negotiated at a later date as a separate contract.

The proposed project consists of converting the Countryside Homeowners Association Water System into the City of Rapid City Water System. In general, the project will include design services for the physical water system connections outlined in the City Obligations of the Agreement Concerning Voluntary Annexation and Transfer of Water System Between Countryside Homeowners Association, Inc. and the City of Rapid City dated September 2, 2014.

The City requested that Advanced Engineering and Environmental Services, Inc. submit a proposal for the proposed project for Task 1 through Task 3 and Task 6. Tasks 4 and 5 may be requested and negotiated with a separate contract at a later date.

PHASE 1

TASK 1 - PRELIMINARY DESIGN SERVICES PHASE 1:

- 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 Obtain City GIS information.
- 1.3 Perform site surveys for design plan preparation, including SD One Call coordination for proposed water connection points listed on “Figure 10, REV 3-17-2014 Connection to City of Rapid City Water System”, Generally described as Section line ROW on west side of subdivision, Meadowlark Drive connection point, Tanager to Portrush through CSHOA common property, Sheridan Lake Road ROW from Muirfield to Tanager and Wells 1 and 4 site topography; develop base plan and field check. The route and topography survey will be in NAD 83 (2011) NAVD 88 South Dakota State Plane South Zone. The horizontal and vertical coordinates may be established from the Rapid City Primary Control Network.
- 1.4 Private Utilities Base Plan Verification Meeting: Send base plans to the private utilities requesting 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.
- 1.5 Technical Memorandum Submittal.

A technical memorandum updating the Countryside Homeowners Association Preliminary Engineering Report for Water System Improvements dated September, 2012 will be prepared to update items pertinent to this project.

- A. The project’s geotechnical report shall be included within the Technical Memorandum and include soil classifications, N values, water levels, proctors,

CBR's, resistivity tests, pavement design, and testing recommendations. Elaboration on other project components will be included as necessary.

- B. A probable opinion of construction costs for the project(s) will be included. The costs will be itemized based on the City's standard bid items and appropriate contingency item allowance.
 - C. AE2S will establish and indicate project specific design criteria and standards within the Technical Memorandum. AE2S will use the City Infrastructure Design Criteria Manual to establish design criteria and standards. The Technical Memorandum will provide review of compliance with City's Standard Specifications for construction of the project(s).
 - D. Identify the existing right-of-way (ROW) location and ROW or easements necessary for the Project. Include size and extent of such ROW and easements.
 - E. Identify non-conforming water service lines and include a map showing a proposed solution to making them conform to the City's current standards.
- 1.6 Phase 1 Preliminary Design, including 8" Meadowlark Drive plan and profile, 8" Meadowlark to Crossbill Circle plan and profile, 8" Tanager to Portrush plan and profile, title sheet and details and internal design submittal review.

TASK 2 - FINAL DESIGN SERVICES PHASE 1:

All services necessary to take project from Task 1 Preliminary Design Services through the Final Design Services, and may include the following itemized services.

- 2.1 Address City comments from the Task 1 City review(s) and finalize Technical Memorandum.
- 2.2 Provide project layout to include lot lines (front and side) and addresses of properties (adjacent to construction or alternatively, in service area). Identify if property is owner occupied or a rental.
- 2.3 Determine removal limits with approval of City of Rapid City representative. (No work this task).
- 2.4 Coordinate with the geotechnical engineer to complete these services and provide a geotechnical report to be included in the Technical Memorandum and project plans or specifications.
- 2.5 Incorporate design features to meet the requirements outlined in the Technical Memorandum.
- 2.6 Provide a storm water pollution prevention narrative, including detailed erosion and sediment control measures and specifications. Provide a complete erosion and sediment control site plan which includes station and offset locations for each implemented measure. Include both temporary and permanent erosion and sediment control measures. Include an erosion and sediment control sequence of implementation and phasing schedule. Each erosion control item will be bid separately
- 2.7 Provide detailed traffic control plans showing 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. A detailed layout will be included for each phase of multi-phased projects. The traffic control sequence of implementation and phasing schedule

will coincide with erosion and sediment control sequence of implementation and phasing schedule. Each traffic control device will be bid separately. The City will provide an electronic version of an aerial photo for the Engineer's use.

- 2.8 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.
- 2.9 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 existing utilities are 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 fully specified 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. Record and distribute meeting minutes.
- 2.10 Notify the City Project Manager if private utilities will need to be relocated so PM can formally notify the utilities to relocate.
- 2.11 AE2S will request and secure necessary exceptions from City requirements or specifications if needed.
- 2.12 Provide detailed specifications supplementing the City of Rapid City Standard Specifications, if necessary. (Included in Task 1.6).
- 2.13 Obtain design exceptions for Infrastructure Design Criteria manual requirements if needed. (Included in Task 2.11).
- 2.14 Act as the City's Agent to complete the following tasks: coordination of easement(s) acquisition with Countryside Homeowners Association. Obtain property owner contact information, prepare easement and ROW exhibits, provide copies of current property deeds where easements are needed, conduct property owner meetings for easement and ROW acquisition (2 meetings anticipated) and provide meeting minutes.
- 2.15 Provide two (2) copies and a PDF version of the finalized Technical Memorandum.
- 2.16 Phase 1 Final Design submittal, which includes 8" PVC connection at Meadowlark Drive, 8" PVC connection from Meadowlark to Crossbill Circle, and 8" PVC connection from Tanager to Portrush plan and profiles. 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. The Final Design Services submittal will be made to the City when the plans, specifications, contract documents, and opinion of probable construction cost are believed by AE2S to be 100% complete.
- 2.17 Address 100% submittal staff comments.
- 2.18 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 will 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.

- 2.19 Prepare required permits with exhibits the City will need to execute for the project. (No work this task).
- 2.20 Identify permits that will be required for the Contractor. Identify permit costs and indicate if 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.
- 2.21 Prepare final "Engineer's Estimate" of probable construction cost for the project.
- 2.22 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 2011 or newer format.
 - Provide all 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.
- 2.23 The City will submit plans and specifications to the Department of Environment and Natural Resources for approval, and AE2S will address comments or corrections required.

TASK 3 – BIDDING SERVICES PHASE 1:

- 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 Attend Public Works Committee and Council Meetings as required. (Not anticipated).
- 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.

PHASE 2

TASK 1 - PRELIMINARY DESIGN SERVICES PHASE 2:

- 1.6 PHASE 2 Preliminary Design, including 16" PVC connection from Red Rock tank in Section Line, 8" PVC loop Tanager Drive to Raven Circle and 12" PVC connection from Muirfield to Tanager plan and profiles, title sheet and details and internal design submittal review.

TASK 2 - FINAL DESIGN SERVICES PHASE 2:

All services necessary to take project from Task 1 Preliminary Design Services through the Final Design Services, and may include the following itemized services.

- 2.1 Address City comments from the Task 1 City review(s).
- 2.2 Provide project layout to include lot lines (front and side) and addresses of properties (adjacent to construction or alternatively, in service area). Identify if property is owner occupied or a rental.
- 2.3 Determine removal limits with approval of City of Rapid City representative. (Included in Task 1).
- 2.4 Coordinate with the geotechnical engineer. (Included in Phase 1).
- 2.5 Incorporate design features to meet the requirements outlined in the Technical Memorandum.
- 2.6 Provide a storm water pollution prevention narrative, including detailed erosion and sediment control measures and specifications. Provide erosion and sediment control site plan which includes station and offset locations for each implemented measure. Include both temporary and permanent erosion and sediment control measures. Include an erosion and sediment control sequence of implementation and phasing schedule. Each erosion control item will be bid separately
- 2.7 Provide detailed traffic control plans showing 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. A detailed layout will be included for each phase of multi-phased projects. The traffic control sequence of implementation and phasing schedule will coincide with erosion and sediment control sequence of implementation and phasing schedule. Each traffic control device will be bid separately. The City will provide an electronic version of an aerial photo for the Engineer's use.
- 2.8 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.
- 2.9 Private Utilities Coordination – task work will be completed in Phase 1.
- 2.10 Notify the City Project Manager if private utilities will need to be relocated so PM can formally notify the utilities to relocate.
- 2.11 AE2S will request and secure necessary exceptions from City requirements or specifications.
- 2.12 Provide detailed specifications supplementing the City of Rapid City Standard Specifications, if necessary. (Included in Task 1.6).

- 2.13 Obtain design exceptions for Infrastructure Design Criteria manual requirements if needed. (Not anticipated).
- 2.14 Act as the City's Agent to complete the following tasks: coordination of easement(s) acquisition with Countryside Homeowners Association. Obtain property owner contact information, prepare easement and ROW exhibits, provide copies of current property deeds where easements are needed, conduct property owner meetings for easement and ROW acquisition (2 meetings anticipated) and provide meeting minutes.
- 2.15 Provide two (2) copies and a PDF version of the finalized Technical Memorandum.
- 2.16 PHASE 2 Final Design submittal, which includes 16" connection from Redrock tank, 8" loop Tanager Drive to Raven Circle and 12" connection Muirfield to Tanager plan and profiles and abandonment of Wells 1, 2, 3 and 4. 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. The Final Design Services submittal will be made to the City when the plans, specifications, contract documents, and opinion of probable construction cost are believed by AE2S to be 100% complete.
- 2.17 Address 100% submittal staff comments.
- 2.18 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 will 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.
- 2.19 Prepare required permits with exhibits the City will need to execute for the project. (No work this task).
- 2.20 Identify permits that will be required for the Contractor. Identify permit costs and indicate if 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.
- 2.21 Prepare final "Engineer's Estimate" of probable construction cost for the project.
- 2.22 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 2011 or newer format.
 - Provide all 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.
- 2.23 The City will submit plans and specifications to the Department of Environment and Natural Resources for approval, and the AE2S will address comments or corrections required.

TASK 3 – BIDDING SERVICES PHASE 2:

- 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 Attend Public Works Committee and Council Meetings as required. (Not anticipated).
- 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 AE2S will provide PDF’s and CAD files on a CD or DVD. The digital submittal will be compatible with AutoCAD Civil 3D 2010 or newer and contain all files and data packaged in a format that will allow City personnel to seamlessly open “As Built” drawings. 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.

All “As Built” plans and specifications, believed by the Engineer of Record to be a final, shall contain a Certification Statement of Conformance, which shall read, “I (insert Engineer of Record’s name) Certify that the As Built drawings and specifications contained here within, to the best of my knowledge, represent the constructed project. This statement will appear on the title sheet of the drawings and on the first page of specifications after the cover sheet. The “Certification Statement of Conformance” will be signed and dated by the Engineer of Record.

TASK 6 – CITY OF RAPID CITY SUPPLEMENTAL REQUESTS for PHASES 1 AND 2:

- 6.1 Water Quality Evaluation. Notify property owners and evaluate water quality, pressure and pressure reducing valves.(Phase 1)
- 6.2 Review and design missing curb stop locations if curb stops cannot be located (5 estimated-Phase 1).

- 6.3 Coordinate with City staff and design replacement fire hydrants and valves for fire hydrants that the City Staff cannot repair. (Assumes 4 total-Phase 1).
- 6.4 Update GIS mapping based on CORC Utility Maintenance marking and potholes (40-hour allowance)(phase 1 or phase 2).
- 6.5 Attend Utility Maintenance staff training (2 hour allowance) (phase 1 or phase 2).
- 6.6 Abandon yard hydrants in common area along Tanager Drive. (Phase 1)
- 6.7 Draw water cards with aerial photographs with address and swing tie dimensions. (Phase 1)
- 6.8 Provide preliminary and final designs for sanitary sewer extension from Muirfield Drive to west of the East Tanager drive intersection with Sheridan Lake Road. Approximately 900' long. (Phase 2)
- 6.9 Prepare Contractor water main flushing and testing requirements map. (Phase 1)

PHASE 1 SUBMITTALS

- A. Meeting minutes for all meetings that Engineer attends on behalf of the City of Rapid City.
- B. Technical Memorandum and Preliminary Review Submittal, Task 1 including meeting minutes
- C. Water Cards with aerial photographs.
- D. 100% complete plans, specifications, contract documents, and opinion of probable construction cost Contract Documents Review, Task 2 including meeting minutes
- E. Final submittal of bid documents including complete plans, specifications, contract documents, and Engineer's Estimate of probable construction cost, Task 2
- F. Prebid conference meeting minutes, Task 3
- G. Bid Tab and award recommendation, Task 3

PHASE 2 SUBMITTALS

- A. Meeting minutes for all meetings that Engineer attends on behalf of the City of Rapid City.
- B. Preliminary Review Submittal, Task 1 including meeting minutes
- C. 100% complete plans, specifications, contract documents, and opinion of probable construction cost Contract Documents Review, Task 2 including meeting minutes
- D. Final submittal of bid documents including complete plans, specifications, contract documents, and Engineer's Estimate of probable construction cost, Task 2
- E. Prebid conference meeting minutes, Task 3
- F. Bid Tab and award recommendation, Task 3

ANTICIPATED PROJECT SCHEDULE

Below are anticipated timeframes for each phase of work based on the Preliminary Scope of Services dates.

Contract Negotiations Complete..... March 20, 2015
Final Rapid City Council Authorization NTP..... April 6, 2015

PHASE 1

Preliminary Submittal June 2015
Final Plans, Specifications July 3, 2015
100% Documents Complete July 10, 2015
Project Bid Opening Date July 28, 2015
Project 100% Construction Complete..... November 20, 2015

PHASE 2

Preliminary Submittal December 2015
Final Plans, Specifications January 2016
100% Documents Complete Early February 2016
Project Bid Opening Date Late February 2016
Project 100% Construction Complete..... July 2016

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.

EXHIBIT B

DESIGN AND BIDDING SERVICES for Tasks 1, 2, 3, and 6
Countryside Subdivision Water System Conversion
Project No. 15-2257 / CIP 51086
Advanced Engineering and Environmental Services, Inc.
TASK SCHEDULE
March 23, 2015

PHASE 1		
TASK	1 Preliminary Design Services Phase 1	Task Cost
1.1	Kick-off conference	\$ 280.00
1.2	Obtain City GIS information	\$ 306.00
1.3	Site Topographic Surveys	\$ 7,749.00
1.4	Private Utilities Base Plan Verification Meeting	\$ 726.00
1.5	Technical Memorandum Submittal	\$ 4,001.00
1.6	Phase 1 Preliminary Design	\$ 5,523.00
	Supplies, Mileage, Printing allowances	\$ 365.00
	Subconsultant - American Engineering Testing, Inc.	\$ 3,132.00
	Subtotal / Preliminary Design Services	\$ 22,082.00

TASK	2 Final Design Services Phase 1	Task Cost
2.1	Address City comments from Task 1 City review and finalize Technical Memorandum.	\$ 948.00
2.2	Provide project layout with lot lines and addresses for all properties adjacent to construction or in service area and identify if owned or rented.	\$ 614.00
2.3	Determine removal limits with City representative (No work this task)	\$ -
2.4	Coordination with Geotechnical Engineer for geotechnical investigation and report to be included in Technical Memorandum and project plans and specs.	\$ 306.00
2.5	Incorporate design features to meet Technical Memorandum Requirements.	\$ 140.00
2.6	Provide SWPPP narrative and Erosion & Sediment Control Measures and Specifications.	\$ 968.00
2.7	Provide detailed traffic control plans showing all devices required for a MUTCD compliant plan.	\$ 1,755.00
2.8	Provide a project sequence of implementation and phasing schedule.	\$ 799.00
2.9	Private Utilities Coordination	\$ 1,649.00
2.10	Notify City Project Manager if private utilities will need to be relocated	\$ 140.00
2.11	Request and secure exceptions to City requirements or specifications.	\$ 410.00
2.12	Included in Task 1.6	\$ -
2.13	Obtain a design exception for Infrastructure Design Criteria manual requirements. (Not anticipated).	\$ -
2.14	Act as City's Agent to coordinate easement acquisition with Countryside HOA.	\$ 2,897.00
2.15	Provide 2 copies and a PDF version of finalized Technical Memorandum.	\$ 445.00
2.16	Phase 1 Final Design	\$ 7,837.00
2.17	Address 100% submittal staff comments	\$ 2,286.00
2.18	Certification Statement of Conformance	\$ 140.00
2.19	Prepare permits with exhibits for City execution. (No work this task.)	\$ -

2.20	Identify permits required of Contractor and note costs and if Owner or Contractor obligation in the contract documents.	\$ 172.00
2.21	Prepare Final Engineer's Estimate	\$ 455.00
2.22	Complete Final Bid Package	\$ 1,239.00
2.23	Address DENR comments and/or corrections	\$ 280.00
	Supplies, Mileage, Printing allowances	\$ 165.00
	Subtotal / Final Design Services	\$ 23,645.00

TASK	3 Bidding Services Phase 1	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	\$ 1,943.00
3.5	Attend Public Works and Council meetings. (Not anticipated.)	\$ -
3.6	Bid Proposal Review and Recommendations	\$ 485.00
	Supplies, Mileage, Printing allowances	\$ 33.00
	Subtotal / Bidding Services	\$ 3,773.00

PHASE 1 TOTAL	\$ 49,500.00
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PHASE 2		
TASK	1 Preliminary Design Services Phase 2	Task Cost
1.6	Phase 2 Preliminary Design	\$ 7,981.00
	Supplies, Mileage, Printing allowances	\$ 46.00
	Subtotal / Preliminary Design Services	\$ 8,027.00

TASK	2 Final Design Services Phase 2	Task Cost
2.1	Address City comments from Task 1 City review.	\$ 1,031.00
2.2	Provide project layout with lot lines and addresses for all properties adjacent to construction or in service area and identify if owned or rented.	\$ 614.00
2.3	Included in Task 1	\$ -
2.4	Included in Phase 1	\$ -
2.5	Incorporate design features to meet Technical Memorandum Requirements.	\$ 223.00
2.6	Provide SWPPP narrative and Erosion & Sediment Control Measures and Specifications.	\$ 968.00
2.7	Provide detailed traffic control plans showing all devices required for a MUTCD compliant plan.	\$ 1,755.00
2.8	Provide a project sequence of implementation and phasing schedule.	\$ 799.00
2.9	Private Utilities Coordination-Task work will be completed in Phase 1	\$ -
2.10	Notify City Project Manager if private utilities will need to be relocated	\$ 140.00
2.11	Request and secure exceptions to City requirements or specifications.	\$ 410.00
2.12	Included in task 1.6	\$ -
2.13	Obtain a design exception for Infrastructure Design Criteria manual requirements. (Not anticipated.)	\$ -
2.14	Act as City's Agent to coordinate easement acquisition with Countryside HOA.	\$ 1,994.00
2.15	Provide 2 copies and a PDF version of finalized Technical Memorandum.	\$ 445.00

2.16	Phase 2 Final Design	\$ 8,554.00
2.17	Address 100% submittal staff comments	\$ 2,286.00
2.18	Certification Statement of Conformance	\$ 140.00
2.19	Prepare permits with exhibits for City execution. (No work this task.)	\$ -
2.20	Identify permits required of Contractor and note costs and if Owner or Contractor obligation in the contract documents.	\$ 172.00
2.21	Prepare Final Engineer's Estimate	\$ 455.00
2.22	Complete Final Bid Package	\$ 1,239.00
2.23	Address DENR comments and/or corrections	\$ 280.00
	Supplies, Mileage, Printing allowances	\$ 165.00
	Subtotal / Final Design Services	\$ 21,670.00

TASK	3 Bidding Services Phase 2	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	\$ 1,011.00
3.5	Attend Public Works and Council meetings. (Not anticipated.)	\$ -
3.6	Bid Proposal Review and Recommendations	\$ 485.00
3.7	As-Built Plans	\$ 2,100.00
	Supplies, Mileage, Printing allowances	\$ 33.00
	Subtotal / Bidding Services	\$ 4,941.00

PHASE 2 TOTAL	\$ 34,638.00
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TASK	6 - Phase 1 & 2 CORC SUPPLEMENTAL REQUESTS	Task Cost
6.1	Water Quality Evaluation and Landowner Notification for quality, pressure, and PRV's	\$ 1,670.00
6.2	Review and design missing curb stop locations (5 estimated)	\$ 446.00
6.3	Review City requests and design replacement fire hydrants and valves (assumes 4 total)	\$ 446.00
6.4	Update GIS Mapping Based on Utility Maintenance Marking & Potholes (40 hour allowance)	\$ 4,488.00
6.5	Attend Utility Maintenance Staff Training	\$ 394.00
6.6	Abandon yard hydrants in common areas.	\$ 446.00
6.7	Draw water cards with aerial photo w/address and swing tie dimensions.	\$ 11,167.00
6.8	Sewer Extension Design from Muirfield to West of Tanager	\$ 4,914.00
6.9	Prepare Contractor water main flushing and testing requirements map	\$ 1,242.00
	Supplies, Mileage, Printing allowances	\$ 150.00
	Subtotal / Final Design Services	\$ 25,363.00

TASK 6 - TOTAL	\$ 25,363.00
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TOTAL - ALL PHASES AND TASKS	\$ 109,501.00
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Note: AE2S shall retain the right to reallocate task costs subject to the maximum limiting fee.

EXHIBIT C

Countryside Subdivision Water System Conversion Project No. 15-2257 / CIP 51086

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

NOTE: Labor Rates and Reimbursable Expenses subject to change January 1, 2016.

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.
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Soils Testing

Proctor (Standard or Modified).....	\$145.00/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