

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

**Date: 3/24/10**

**Project Name & Number:** Canyon Lake Drive Reconstruction Project WTP10-878

**CIP #50004**

**Project Description:** Reconstruct water mains, sanitary sewer mains and street, and construct drainage improvements in Canyon Lake Drive between Jackson Boulevard and Soo San Drive.

**Consultant:** Ferber Engineering Company, Inc.

**Original Contract Amount:**  
\$694,070.00

**Original Contract Date:**  
4/5/10

**Original Completion Date:**  
12/31/10

**Addendum No:**

**Amendment Description:**

<b>Current Contract Amount:</b> _____	<b>Current Completion Date:</b> _____
<b>Change Requested:</b> _____	
<b>New Contract Amount:</b> _____ \$0.00	<b>New Completion Date:</b> _____

**Funding Source This Request:**

Amount	Dept.	Line Item	Fund	Comments
\$90,230.00	833	4223	604	Sewer Enterprise Fund
\$90,230.00	933	4223	602	Water Enterprise Fund
\$513,610.00	932	4223	602	Bonds/SRF Loans
<b>\$694,070.00</b>	<b>Total</b>			

### Agreement Review & Approvals

 Keith Johnson Project Manager	3/24/10 Date	 Division Manager	3-25-10 Date
Department Director	Date	 City Attorney	3/25/10 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
Appropriation	Y	N
Cash Flow	Y	N

**Agreement Between City of Rapid City and Ferber Engineering Company, Inc.  
for Professional Services for Canyon Lake Drive Reconstruction,  
Project No. WTP10-878 / CIP No. 50004**

AGREEMENT made April 5, 2010, between the City of Rapid City, SD (City) and Ferber Engineering Company, Inc, (Engineer), located at 729 E. Watertown Street, Rapid City, S.D. 57701. City intends to obtain services for Canyon Lake Drive Reconstruction, Project No. WTP10-878, CIP No. 50004. The scope of services is as described in Exhibits A and B.

The City and the Engineer agree as follows:

The Engineer shall provide professional engineering services for the City in all phases of the Project as defined in Exhibits A and B, 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.

**1.2 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 Exhibits A and B.)
- 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 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 by agreement or otherwise. In such case, the Engineer shall be liable to the City for any additional cost occasioned thereby.



- 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.
- 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 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. 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 rate schedule. (See Exhibit C.)

### 5.2 Fee



The maximum amount of the fee for the services as detailed in Section 1.2 shall not exceed \$694,070.00 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.

### 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 at the rates 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 December 31, 2010.

### 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, in the amount of \$1,000,000 each occurrence and \$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, 7<sup>th</sup> 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

  
\_\_\_\_\_  
FERBER ENGINEERING COMPANY, INC

DATE: \_\_\_\_\_

DATE: 3/24/10

ATTEST:

\_\_\_\_\_  
FINANCE OFFICER

Reviewed By:

  
\_\_\_\_\_  
KEITH JOHNSON, PROJECT MANAGER

DATE: 3/24/10



**CANYON LAKE DRIVE RECONSTRUCTION  
City Project No. WTP 10-878 / CIP No. 50004**

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**EXHIBIT A**

The City has determined the need to procure professional services of Preliminary Design Services, Final Design Services, Bidding Services, Basic Construction Services, and Expanded Construction Services for the Canyon Lake Drive Reconstruction, Project No. WTP10-878 / CIP No. 50004.

The 18" cast iron, leaded joint water main in Canyon Lake Drive between Jackson Boulevard and Soo San Drive has reached the end of its useful life. This water main is the primary connection of the Jackson Springs water treatment plant to the distribution system. Severe drainage deficiencies, pavement displacements, and sanitary sewer mains that have reached the end of their useful life also exist within the project limits. The services needed are related to reconstructing water mains and sanitary sewer mains; constructing new and/or expanding existing storm sewer facilities; and reconstructing the street.

Tasks 1 through 3 presented in this Exhibit are "Standard" items, requested by the City. Tasks 4 and 5 (not shown) are "Standard" construction tasks and, at the City's request, will be completed for this Project by Ferber Engineering Company, Inc., with scope and budget to be negotiated prior to the completion of Task 3.

**TASK 1 - PRELIMINARY DESIGN SERVICES:**

- 1.1 Kick-off Conference: The Engineer shall meet with City staff to detail project concept and scope. The Engineer shall prepare an agenda, take minutes, and distribute minutes.
- 1.2 Stakeholders Meeting. The Engineer shall meet with project stakeholders as identified by the City. The Engineer shall prepare an agenda, take minutes, and distribute minutes.
- 1.3 Review background information listed in the Request for Proposals, and any other resources as necessary.
- 1.4 Initial utility coordination/location meeting.
- 1.5 Develop and distribute a survey questionnaire to property owners adjacent to proposed construction areas. 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.
- 1.6 Develop and maintain a project webpage with link from City website throughout design process.
- 1.7 Perform site surveys sufficient for design plan preparation. The route and topography survey shall be tied to at least two City of Rapid City Monument Control system monuments utilizing State Plane coordinates. Survey limits will include the Canyon Lake Drive corridor and approximately 400' of the intersecting street rights of way.
- 1.8 Engineer will provide the following structural services through Subconsultant contract with Albertson Engineering, Inc.

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- 1.8.1 Evaluation of structural sufficiency of existing retaining walls within the project limits.
- 1.8.2 Retaining wall design(s) for incorporation into project plans and specifications.
- 1.9 Engineer will provide the following electrical services through Subconsultant contract with West Plains Engineering, Inc.
  - 1.9.1 Perform lighting calculations of the lighting system that will illustrate existing lighting conditions and identify areas in need of improvement.
  - 1.9.2 Specify replacement of all existing lighting system wiring with new wiring in conduit.
  - 1.9.3 Specify relocation as necessary of existing light support standards to coordinate with project requirements.
  - 1.9.4 Specify improvements as necessary to the lighting system at the intersections of Canyon Lake Drive with Red Dale, Hillsview, 38<sup>th</sup> Street and Evergreen as well as the school zone signalization at Canyon Lake School.
- 1.10 Engineer will provide the following geotechnical services through Subconsultant contract with American Engineering Testing, Inc.
  - 1.10.1 Soil borings to a depth of 15 feet throughout project limits.
  - 1.10.2 Place temporary piezometers in each boring to allow for on-going measurements of groundwater.
  - 1.10.3 Prepare a report summarizing lab testing and provide recommendations.
- 1.11 Engineer will provide the following traffic engineering services through Subconsultant contract with Interstate Engineering Inc.
  - 1.11.1 Typical section evaluation.
  - 1.11.2 Evaluation and recommendations for improvement of the intersections of Canyon Lake Drive with Red Dale, Hillsview, 38<sup>th</sup> Street and Evergreen.
  - 1.11.3 Evaluation and recommendations for lane layout and assignment at the intersection of Canyon Lake Drive and Soo San Drive.
- 1.12 Engineer will provide the following Cathodic Engineering services through Subconsultant contract with Dowl HKM/RustNot Corrosion Control Services, Inc.
  - 1.12.1 Design of the cathodic protection system for the proposed steel water mains within the project limits.
  - 1.12.2 Design of the cathodic protection necessary for the various fittings, valves and hydrants associated with the proposed PVC water mains.
- 1.13 Underground City Utility Evaluation
  - 1.13.1 Sanitary Sewer
    - 1.13.1.1 Engineer will evaluate potential extension of sanitary sewer mains north and west of Canyon Lake Drive. The evaluation is necessary to ensure that the reconstructed Canyon Lake Drive sanitary sewer has adequate future capacity.
    - 1.13.1.2 Engineer will evaluate diversion of Canyon Lake Drive sewer flows to side streets, if additional future capacity is needed.
  - 1.13.2 Water

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- 1.13.2.1 Engineer will develop a hydraulic model of the water system to the extent necessary for this project.
  - 1.13.2.2 Engineer will evaluate tying well #4 to both the Canyon Lake High and Low Level Systems
  - 1.13.2.3 Engineer will evaluate the current Cedar Hills service boundary to determine if it should be connected to the Canyon Lake High Level or the Pinedale High Level service zone.
  - 1.13.2.4 Engineer will evaluate the Canyon Lake Drive High Level distribution main diameter for the interim condition between the completion of the Jackson Springs Water Treatment Plans and the 20-inch water main extension along Jackson Boulevard from Rapid Creek to Sheridan Lake Road.
  - 1.13.2.5 Engineer will evaluate available fire flows throughout the Project Area.
  - 1.13.2.6 Engineer will evaluate the location of the Pinedale High Level and Canyon Lake High Level zone separation along Raider Road.
- 1.13.3 Storm Sewer
- 1.13.3.1 Evaluate additional inlet capacity effects on existing storm sewer system.
- 1.14 Engineer will develop preliminary plans and specifications for the future abandonment of Well #3, Marine Life Well, and Airport Well.
- 1.15 Prepare Project Design Report: The Engineer shall establish and indicate project specific design criteria and standards within the Project Design Report (including ADA requirements). The Engineer shall submit all design assumptions for typical section (pavement width, sidewalk location, water main location, etc), design life, design criteria, and reference of design resources. The Project Design Report shall evaluate and recommend a PCC pavement design, preliminary horizontal and vertical alignment for utilities, roadways, and other public improvements. Establish pipe sizes, lane configurations, drainage system capacity, complete water quality assessment, etc. Provide justification for the facility and analysis of alternatives. Use the City Draft Infrastructure Design Criteria Manual to establish design criteria and standards. The project's geotechnical report shall be included within the Project Design Report, and include soil classifications, N values, water levels, proctors, CBR's, resistivity tests, pavement design, and testing recommendations. Submit five (5) copies of the Project Design Report and preliminary plans and specifications to City of Rapid City's project manager for review and comment.
- 1.16 Prepare preliminary opinion of probable construction costs for the project.
- 1.17 Prepare preliminary plan and profile sheets including locations of existing and new utilities and street alignment. Show existing utilities locations with probable depths.
- 1.18 Identify right-of-way (ROW) and permanent and temporary construction easements acquisition needs. Include size and extent of such ROW and easements.
- 1.19 Attend submittal review meeting with City staff.
- 1.20 Attend Public Works and Council meetings as necessary.

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TASK 2 - FINAL DESIGN SERVICES:

- 2.1 Address City comments from the Task 1 City review(s) and finalize Project Design Report
- 2.2 Arrange and conduct affected property owners meetings to inform them of the project scope and potential impacts on their property.
- 2.3 Facilitate permanent and/or temporary construction easement acquisition, and obtain property owner contact information, prepare easement and ROW exhibits as necessary, conduct property owner meetings for easement and ROW acquisition, and document acquisition meetings.
- 2.4 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 fully specified in the contract documents. Plans shall 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.
- 2.5 Determine removal limits with approval of City of Rapid City representative.
- 2.6 Provide three (3) copies of the finalized Project Design Report and the 65% Design Services Submittal.
- ~~2.7 Provide and make submittals for review by the Rapid City Planning Commission per SDCL §11-6-19 submittal if required. Provide supplemental information and attend Planning Commission meetings as necessary to present the project or to respond to any questions or concerns.~~
- 2.8 Arrange and conduct a public open house with affected residents. The open house shall 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 shall 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. Tabulate the public comments and concerns and provide written recommendations for staff review regarding possible inclusion or exclusion of such requests.
- 2.9 Arrange and conduct individual meetings with affected commercial property owners. Tabulate owners concerns and provide written recommendations for staff review regarding possible inclusion or exclusion of such requests.
- 2.10 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.
  - 2.10.1 Plans documents shall adhere to current City of Rapid City guidelines.
  - 2.10.2 Staking information shall include the following as necessary:
    - 2.10.2.1 Station offsets or coordinates for all items of work requiring field staking
    - 2.10.2.2 Coordinates and description of inter-visible control points with benchmark information.

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- 2.10.3 Provide project layout to include lot lines (front and side) and addresses of all properties adjacent to construction.
- 2.10.4 If desiring exceptions from City requirements or specifications, Engineer will request and secure exceptions. Failure by the City to comment on a nonconforming item during a review does not constitute the granting of an exceptions
- 2.11 Incorporate design features as necessary to meet required ADA standards.
- 2.12 Provide complete traffic control plan showing all streets and alleys that may be impacted by the construction of this project. Show all existing signage, pavement markings, etc. All work zones, road closures, lane closures, and pavement marking removals shall be indicated on the plan. Traffic control plans shall indicate suggested sequence and intent.
- 2.13 Provide full Erosion and Sediment Control Plans, and include the appropriate bid items in the bidder's proposal.
- 2.14 Provide detailed specifications supplementing the City of Rapid City Standard Specifications, as necessary. Material types and material specific items will be included as a detailed specification.
- 2.15 Prepare applicable permits with exhibits required for the City. 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.
- 2.16 Prepare final "Engineer's Estimate" of probable construction cost for the project.
- 2.17 Deliver the following:
- Provide complete plans on CD compatible with current AutoCAD Release.
    - 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 on CD in current version of Microsoft Word.
  - Provide a unit price cost estimate on CD in current version of Microsoft Excel on the City of Rapid City "Engineer's Estimate" form.
    - Provide Engineer's Estimate of probable construction costs as a component of this submittal.
- 2.17.1 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.
- 2.17.2 Provide three (3) copies 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.

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The Final Design Services submittal will be made to the City when the Engineer believes the plans, specifications, contract documents, and opinion of probable construction cost are 100% complete.

- 2.18 Address 100% submittal staff comments as necessary.
- 2.19 Complete a pre bid mailing to property owners adjacent to proposed construction areas. Mailing shall include standard letter describing proposed construction project with additional information as necessary related to property specific items.
- 2.20 The Engineer shall submit plans and specifications to the Department of Environment and Natural Resources for approval, and shall address any comments or corrections required.
- 2.21 Prepare final plans and specifications for future abandonment of Well #3, Marine Life Well and Airport Well. (Separate biddable project independent of Canyon Lake Drive construction project.)

**TASK 3 – BIDDING SERVICES:**

- 3.1 Submit sufficient information to the City of Rapid City project manager for completion of City Advertising Authority form.
- 3.2 Print and submit Original and two (2) hardcopies of the plans/drawings to the City of Rapid City at 22" x 34" scale. Include pdf files required for plans reproduction of both full size and half size prints.
- 3.3 Conduct a Pre-bid Conference. Record attendance and minutes.
- 3.4 Respond to bidders questions throughout the advertising process.
- 3.5 Issue addenda to the bid documents as required.
- 3.6 Attend the bid opening (to be held at the City Finance Office).
- 3.7 Attend Public Works Committee and Council Meetings as required.
- 3.8 Review and certify the Bid Tab prepared by the City.
- 3.9 Prepare an award recommendation letter to the City of Rapid City project manager.
- 3.10 Review construction contract documents and supporting information from the contractor and submit to City of Rapid City project manager for distribution to City Attorney's for approval and signatures of the Mayor and Finance Officer.



**CANYON LAKE DRIVE RECONSTRUCTION  
City Project No. WTP 10-878 / CIP No. 50004**

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**PROJECT TEAM, MEETINGS, AND SUBMITTALS**

Project team members will include:

- Ferber Engineering Company, Inc.
  - Albertson Engineering, Inc.
  - West Plains Engineering, Inc.
  - American Engineering Testing, Inc.
  - Interstate Engineering, Inc.
  - Dowl HKM/RustNot Corrosion Control Services, Inc.
- City Engineering Services staff
- Operations Division staff
  - Utility Maintenance Division (Service area and O&M related issues)
  - Street Division
  - Water Division
  - Water Reclamation Division

Engineer will attend the following meetings:

- Kick-off meeting, Task 1
- Stakeholders meeting, Task 1
- Project Design Report and Preliminary Plans and Specifications submittal review meeting, Task 1
- Initial Utility Coordination Meeting, Task 1
- Property owners meetings
- Project Open House
- Private Utility coordination meeting, Task 2
- 65% Plans and Specifications submittal review meeting, Task 2
- 100% Plans, Specifications, and Contract Documents review, Task 2
- Pre bid Conference, Task 3
- Bid Opening, Task 3
- Committee and Council Meetings as required, All Tasks

Engineer will make the following submittals:

- Kick-off meeting, Task 1 meeting minutes
- Stakeholders meeting, Task 1 meeting minutes
- Project Design Report and Preliminary Plans Review Submittal, Task 1 including meeting minutes
- 65% Plans and Specifications submittal review meeting minutes, Task 2
- Final Project Design Report, Task 2 including meeting minutes
- 100% complete plans, specifications, contract documents, and opinion of probable construction cost Contract Documents Review, Task 2 including meeting minutes
- Public meeting minutes
- Property owners meeting minutes
- Open house comments/concerns
- Final submittal of bid documents including complete plans, specifications, contract documents, and Engineer's Estimate of probable construction cost, Task 2
- Pre-bid conference meeting minutes, Task 3
- Award recommendation, Task 3

**CANYON LAKE DRIVE RECONSTRUCTION**  
**City Project No. WTP 10-878 / CIP No. 50004**

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The Engineer will allow 15 working days for City review of the Project Design report and Preliminary Plans review submittal, 65% review submittal, and the 100% complete plans; specifications; contract documents; and opinion of probable construction cost Contract Documents submittal.

**CANYON LAKE DRIVE RECONSTRUCTION**  
**City Project No. WTP10-878/ CIP No. 50004**

**EXHIBIT B**

<b>TASK</b>	<b>Task Description</b>	<b>Task Total</b>
<b>1.0</b>	<b>Preliminary Design Services</b>	
1.1	Kickoff Conference	\$1,800.00
1.2	Stakeholders Meeting	\$1,560.00
1.3	Review background information	\$5,400.00
1.4	Initial utility coordination/location meeting	\$2,400.00
1.5	Develop and distribute survey questionnaire	\$7,220.00
1.6	Develop and maintain project webpage	\$4,480.00
1.7	Route and Topographic Survey	\$90,500.00
1.8	Retaining wall evaluation and design	\$15,150.00
1.9	Street lighting evaluation and design	\$22,540.00
1.10	Geotechnical Investigation	\$11,960.00
1.11	Typical section and intersection evaluation	\$10,120.00
1.12	Cathodic Engineering	\$9,840.00
1.13	Underground City Utility Evaluation	\$32,760.00
1.14	Well abandonment preliminary plans/specifications	\$8,790.00
1.15	Project Design Report	\$45,060.00
1.16	Preliminary Opinion of Construction Cost	\$5,120.00
1.17	Preliminary Plan and Profile	\$98,440.00
1.18	Identify ROW and easement needs	\$3,960.00
1.19	Submittal Review Meeting	\$1,480.00
1.20	Public Works and Council meetings as necessary	\$920.00
	<b>TASK 1 Subtotal</b>	<b>\$379,500.00</b>
<b>2.0</b>	<b>Final Design Services</b>	
2.1	Finalize Project Design Report	\$5,930.00
2.2	Property Owner Meetings	\$14,400.00
2.3	ROW and easement acquisition	\$17,220.00
2.4	Utility Company coordination	\$5,840.00
2.5	Determine Removal Limits	\$3,600.00
2.6	65% Design Services Submittal	\$5,730.00
2.7	11-6-19 Submittal - (Not Required)	\$0.00
2.8	Public Open House	\$5,740.00
2.9	Individual meetings with Commercial Landowners	\$12,400.00
2.10	Prepare Project Plans and Specifications	\$121,630.00
2.11	Incorporate ADA compliance items	\$8,620.00
2.12	Prepare Complete Traffic Control Plans	\$13,680.00
2.13	Prepare full Erosion and Sediment Control Plans	\$11,160.00
2.14	Prepare Detailed Specifications	\$15,680.00
2.15	Prepare/Identify permits and exhibits	\$4,800.00
2.16	Final Engineers Estimate of Construction Cost	\$6,380.00
2.17	Final Design Services Submittal	\$13,680.00

**CANYON LAKE DRIVE RECONSTRUCTION**  
**City Project No. WTP10-878/ CIP No. 50004**

**EXHIBIT B**

<b>TASK</b>	<b>Task Description</b>	<b>Task Total</b>
2.18	Address 100% Staff Comments	\$8,120.00
2.19	Pre bid property owner notification/mailing	\$8,090.00
2.20	DENR submittal	\$1,060.00
2.21	Final well abandonment plans/specifications	\$8,250.00
	<b>TASK 2 Subtotal</b>	<b>\$292,010.00</b>
<b>3.0</b>	<b>Bidding Services</b>	
3.1	Advertising Authority Coordination	\$680.00
3.2	Submit reproducible plans/specifications	\$3,290.00
3.3	Pre Bid Conference	\$3,600.00
3.4	Address bidders questions through advertisement	\$5,840.00
3.5	Issue Addenda	\$6,720.00
3.6	Bid Opening	\$340.00
3.7	Public Works and Council Meetings as necessary	\$230.00
3.8	Review and Certify Bid tab	\$680.00
3.9	Award Recommendation	\$460.00
3.10	Review Construction Contract	\$720.00
	<b>TASK 3 Subtotal</b>	<b>\$22,560.00</b>

**Maximum Limiting Fee    \$694,070.00**

**CANYON LAKE DRIVE RECONSTRUCTION**  
**City Project No. WTP10-878/ CIP No. 50004**

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**EXHIBIT C****2010 SCHEDULE OF CHARGES****FERBER ENGINEERING COMPANY, INC.**

<b><u>EMPLOYEE CLASSIFICATION</u></b>	<b><u>HOURLY RATE</u></b>
Principal-In-Charge	\$120.00
Registered Land Surveyor	\$120.00
Principal Professional Engineer	\$110.00
Professional Engineer I	\$80.00
Graduate Engineer IV	\$75.00
Graduate Engineer III	\$70.00
Graduate Engineer I	\$60.00
Senior Technician II	\$75.00
Technician II	\$60.00
Technician I	\$55.00
Survey Crew 2-Man	\$100.00
Drafter II	\$65.00
Drafter I	\$50.00
Clerical	\$60.00
Mileage	\$0.50
GPS Survey	\$20.00 + Tech*
*Tech includes hourly rate of employee plus expenses	

**PRINTING CHARGES**

Bond	\$ .20/sq ft
Vellum	\$ .30/sq ft
Mylar	\$ .50/sq ft
Clear Film	\$ .50/sq ft
Photocopies, 8 ½" x 11" (BW)	\$ .10
Photocopies, 8 ½" x 11" (Color)	\$ .50
Binding (up to 1")	\$ 2.00

**ALBERTSON ENGINEERING, INC.**

Drafting/Clerical	\$50.00
Engineer 1	\$90.00
Engineer 2	\$110.00
Engineer Manager	\$135.00

**CANYON LAKE DRIVE RECONSTRUCTION**  
**City Project No. WTP10-878/ CIP No. 50004**

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**AMERICAN ENGINEERING TESTING, INC.**

Principal Engineer	\$160.00
Senior Engineer	\$133.00
Field Tech II	\$73.00
Field Tech I	\$62.00
Word Processing Specialist	\$56.00
GPR Van	\$.90/mile
GPR (Mobilization and Testing)	\$15.50/hr
GPR Testing	\$29.50/hr
Warning Sign Rental Costs	\$300.00 lump sum

**DOWL HKM / RUSTNOT**

<b>DOWL HKM</b>	
Senior Manager	\$150.00
Engineer IV	\$115.00
Engineer III	\$95.00
Engineer II	\$85.00
Engineering Technician II	\$85.00
Administrative Assistant	\$55.00
Per diem	\$46.00/day
Lodging	Cost per night
Vehicle Use	\$.75/mile autos / \$1.00/mile pickups & suburbans

**RUSTNOT**

Office Support	\$30.00
Administrative Assistant	\$55.00
Review and Editor Support	\$60.00
Drafting / Field Technicians	\$70.00
Certified Weld Inspector and Coating Inspection	\$65.00/Reg \$75.00/O.T.
NACE CP Field Technicians	\$60.00
NACE Certified Cathodic Protection Specialists/Corrosion Consultants	\$130.00
Infrastructure Pipeline Senior Engineer	\$160.00
Meals/Lodging per diem	\$135.00/day
Mileage	\$.55/mile regular / \$1.00/mi four-wheel drive
Communication Charges	\$3.00 per hour
Utilization of field/office equipment	\$30.00/day
Utilization of standard corrosion test equipment	\$40.00/day
Specialized test equipment	\$50.00/day

**CANYON LAKE DRIVE RECONSTRUCTION**  
**City Project No. WTP10-878/ CIP No. 50004**

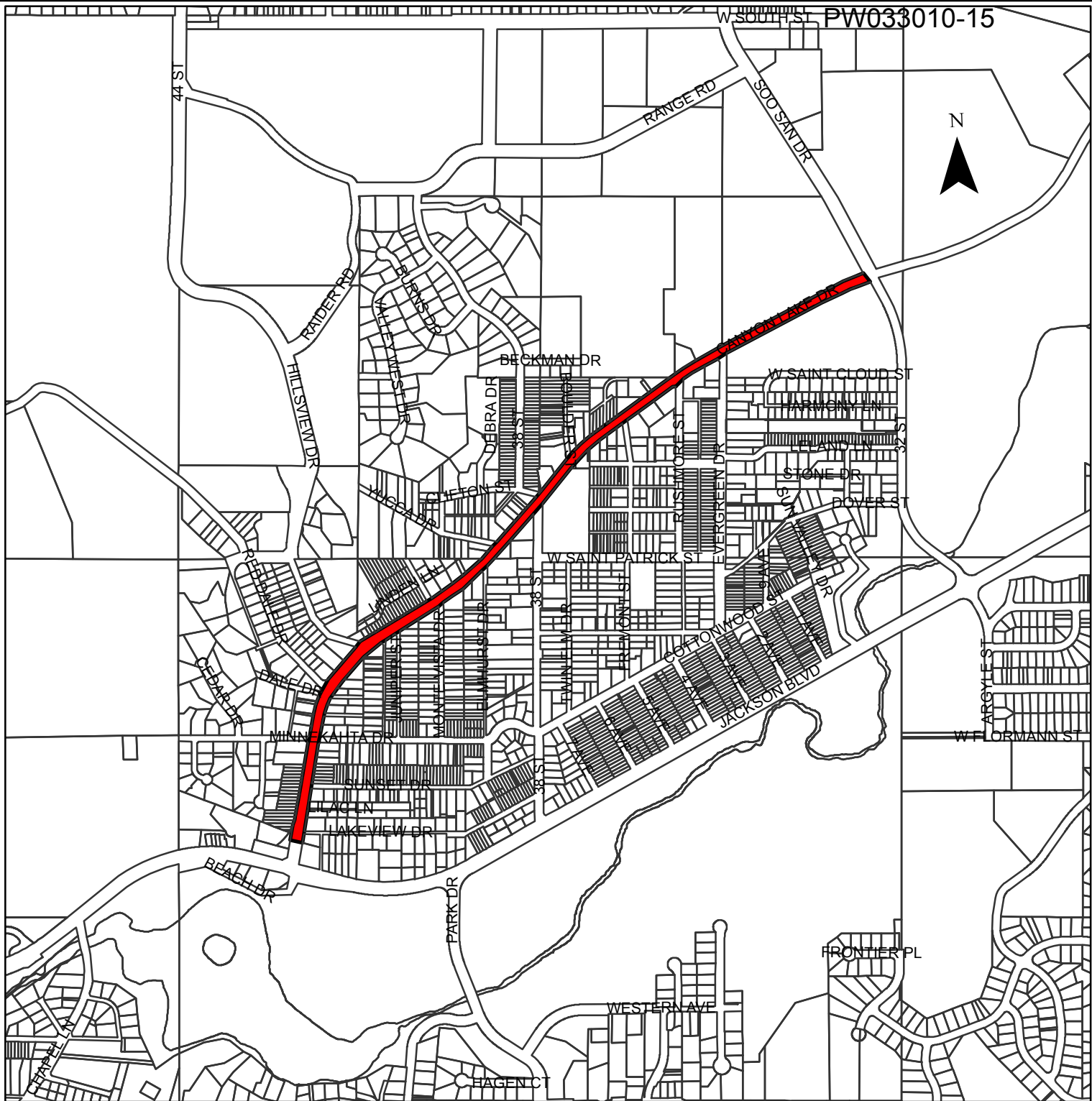
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**INTERSTATE ENGINEERING, INC.**

Senior Drainage / Traffic Engineer	\$155.00
Technician	\$65.00
Clerical	\$43.00

**WEST PLAINS ENGINEERING, INC.**

Principal	\$195.00
Senior Engineer	\$105.00
Drafting	\$55.00
Clerical	\$45.00



# CANYON LAKE DRIVE RECONSTRUCTION PROJECT NO. WTP10-878 CIP NO. 50004

## PROJECT IMPROVEMENTS

**WATER MAINS, LAKEVIEW TO SOO SAN**  
 \* 20" LOW PRESSURE MAIN  
 \* 12" HIGH PRESSURE MAIN

**STORM SEWER, LAKE VIEW TO EVERGREEN**  
 \* ADD/UPSIZE PIPES  
 \* INLETS

**STANITARY SEWER MAINS, LAKEVIEW TO EVERGREEN**  
 \* 8" MAINS & MANHOLES

**STREET, LAKEVIEW TO EVERGREEN**  
 \* 3 LANE STREET  
 \* BIKE PATH OR LANES