CITY of RAPID CITY

Agenda Item Summary

<table>
<thead>
<tr>
<th>Public Works Committee Meeting Date:</th>
<th>10/11/22</th>
</tr>
</thead>
<tbody>
<tr>
<td>City Council Meeting Date:</td>
<td>10/17/22</td>
</tr>
<tr>
<td>Staff Contact:</td>
<td>John Leahy P.E.</td>
</tr>
<tr>
<td>Location:</td>
<td>Solid Waste Landfill</td>
</tr>
</tbody>
</table>

**Agenda Title:**

Authorize Mayor and Finance Director to sign Amendment No. 2 to Agreement between the City of Rapid City and FMG Engineering for Landfill Permit Renewal Project Number 18-2448 CIP No. 51202. This is a zero cost amendment.

The City of Rapid City, Solid Waste Division has identified a need for design and construction services to replace an existing landfill gas pipe that is partially blocked and nearly inoperable. The Landfill Permit Renewal Project has existing tasks for the landfill gas system and funds that were not fully utilized. This amendment reallocates those funds to expedite the design process allowing the repair to take place as soon as possible. This is a zero cost amendment.

**Funding Source & Fiscal Impact (if applicable):**

<table>
<thead>
<tr>
<th>Fund</th>
<th>Cost Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>615</td>
<td>7104</td>
</tr>
</tbody>
</table>

**Recommendation:**

Action: Authorize
Notes:

**City Council Options:**

Acknowledge

**Attachments & Links:**

- Amendment #2.
- Authorization
- Vicinity Map
REQUEST AUTHORIZATION FOR MAYOR AND FINANCE DIRECTOR TO SIGN PROFESSIONAL SERVICES AGREEMENT OR AMENDMENT

Project Name & Number: Landfill Permit Renewal, Project No. 18-2448

CIP #: 51202

Project Description: The City of Rapid City Solid Waste Division has determined the need to procure professional design and bidding services for design and construction oversight to replace an existing landfill gas pipe that is partially blocked and nearly inoperable. The Landfill Permit Renewal Project has existing tasks for the landfill gas system and funds that were not fully utilized. This amendment reallocates those funds to expedite the design process allowing the repair to take place as soon as possible. This is a zero cost amendment.

Consultant: FMG Engineering.

Original Contract Amount: $139,397.00
Original Contract Date: January 21, 2019
Original Completion Date: August 1, 2019.

Addendum No: 2

Amendment Description: Amendment reallocates unutilized funds from the contract to provide design and construction engineering services for replacement of a compromised landfill gas pipe.

Current Contract Amount: $147,958.00
Change Requested: $0.00
New Contract Amount: $147,958.00

Current Completion Date: December 31, 2019
New Completion Date: June 30, 2023

Funding Source This Request:

<table>
<thead>
<tr>
<th>Amount</th>
<th>Dept.</th>
<th>Line Item</th>
<th>Fund</th>
<th>Comments</th>
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<tbody>
<tr>
<td>$147,958.00</td>
<td>7104</td>
<td>4223</td>
<td>615</td>
<td>Solid Waste (No Change)</td>
</tr>
</tbody>
</table>

Total

Agreement Review & Approvals

Project Manager
Date

CIP Manager
Date

Division Manager
Date

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
CIP Manager - Public Works Engineering Project Manager

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

<table>
<thead>
<tr>
<th>Appropriation Date</th>
<th>Initials</th>
<th>Approved</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>Cash Flow</td>
<td></td>
<td>Y</td>
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109A Authorization for Mayor & Finance Officer to Sign
Rev. 03/2009
AMENDMENT NO. 2 TO AGREEMENT

Project: Rapid City Landfill Permit Renewal, Project No. SW18 – 2448, CIP No. 51202

Background Data: Effective Date of Agreement: October 17, 2022
Owner: City of Rapid City
Engineer: FMG Engineering, Inc.

Nature of Amendment: The City of Rapid City, Solid Waste Division has identified a need for design and construction services to replace an existing landfill gas pipe that is partially blocked and nearly inoperable. This amendment reallocates unutilized funds from the contract to complete this additional task.

Current Contract Amount: $147,958.00
Change Requested: $ 0.00
New Contract Amount: $147,958.00

Owner and Engineer hereby agree to modify the above referenced Agreement as set forth in this Amendment including Exhibits A and B. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The effective date of this Amendment is: October 17, 2022.

CITY OF RAPID CITY

By: __________________________
    Mayor

Date Signed: ____________________

ENGINEER:

By: __________________________
    FMG Engineering, Inc.

Date Signed: ____________________

ATTEST:

By: __________________________
    Finance Officer

Date Signed: ____________________

REVIEWED BY:

______________________________
John Leahy, Project Engineer
EXHIBIT A
SCOPE OF SERVICES
Gas System Lateral Line Replacement
Project No. 18-2448

The City of Rapid City (City) has determined the need to procure professional services to complete a small design and construction project at the Rapid City Landfill (Landfill). The proposed project would consist of the abandonment of an existing lateral line that is suspected to be comprised, as well as, installation of a new lateral line that will connect to another portion of the Landfill Gas Collection and Control System (GCCS) pipe network with a more reliable vacuum source.

This scope would be completed under the existing contract for Project No. 18-2448. The unspent fees remaining in 18-2448 are no longer needed. This scope would be completed by reallocating the remaining funds to the tasks described below.

The proposed scope of shall include the following:

- Evaluation of existing conditions and discussion of proposed re-alignment options with Landfill staff.
- Final Design and preparation of necessary drawings and specifications.
- Assist City Engineering staff with contracting document preparation, quote solicitation and procurement.
- Coordination with South Dakota Department of Agriculture and Natural Resources (DANR) and other regulatory agencies as necessary.
- Construction period services are difficult to estimate at this point, as final design plans have not yet been completed. This scope includes limited construction period services and on site observation and consultation.
- It should be noted that for this task, it is anticipated that all meetings can be conducted locally or via teleconferencing. No significant travel other than the construction period services as described is anticipated for this task.

Individual Tasks are described in more detail as follows.

Task 1 – Final Design and Construction Documents

A. Analysis of the pipe network to make certain that adequate vacuum is available at the proposed new lateral line connection.

B. Preparation of Preliminary Construction Plans and documents for City review. Regulatory review drawings and documents will also be completed and submitted to DANR for review and approval.

C. Preparation of Final Construction Plans; minimal plan sheets are assumed to be:
   - Site plan
• Details as required
• Notes pages as required

D. Preparation of Technical or Detailed Specifications as required.
E. Preparation of Quote/Front-End Documents for solicitation of contractor’s quotes.

Task 2 – Construction Period Services

Construction period services are difficult to estimate at this point as final construction plans have not yet been completed. For estimating the level of effort, minimal required site observations and inspections have been assumed. Modifications to this scope and fees may be required due to unforeseen circumstances arising during final design or based on contractor’s means and methods.

A. Observation and testing as required during installation of the landfill gas piping and connections. It is assumed that FMG Engineering will assist locally with observation and testing of the majority of the piping work; however, Franklin Engineers and Consultants (Franklin) will make one (1) site visit during the connection of the new piping into the existing network. It is assumed that this work can be coordinated with the contractor to limit onsite time and travel required by Franklin to one (1) site visit and a period of up to three (3) days onsite.

B. Clay cap testing and certification. Field and laboratory testing will be completed to ensure compliance with South Dakota Department of Agriculture and Natural Resources (DANR) regulations. A final report and certification will be completed for submission to DANR.

C. Construction staking and preparation of As-Built drawings. The proposed pipe route will be staked prior to construction. Subsequent to completion of the lateral line installation, survey shots will be obtained along the pipeline route and tie-in locations, which will be displayed on a site plan and incorporated into the overall landfill utility maps.

**SCHEDULE MILESTONE DATES**
These dates presented below are preliminary estimates and subject to change. The City Project Manager may change these dates as required.

Notice to Proceed
Final Submittal to City
Solicitation of Quotes

On or about October 21, 2022
On or before November 23, 2022
November and December, 2022
**FMG ENGINEERING / FRANKLIN ENGINEERING**  
**TASK SCHEDULE-ESTIMATED FEES**

**Project No. 18-2448**  
**Landfill Gas System Lateral Line Replacement**

<table>
<thead>
<tr>
<th>TASK 1 - FINAL DESIGN AND CONSTRUCTION DOCUMENTS</th>
<th>FEES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.A Preliminary Design</td>
<td>$ 872.00</td>
</tr>
<tr>
<td>1.B Final Design</td>
<td>$ 7,134.00</td>
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<tr>
<td>1.C Expendables, Reimbursable and Mileage, third party printing costs included</td>
<td>$ 500.00</td>
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<td><strong>TOTAL FOR TASK 1</strong></td>
<td><strong>$ 8,506.00</strong></td>
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<table>
<thead>
<tr>
<th>TASK 2 - CONSTRUCTION PERIOD SERVICES</th>
<th>FEES</th>
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<tbody>
<tr>
<td>2.A Observation and Testing - HDPE Piping and Connections</td>
<td>$ 7,200.00</td>
</tr>
<tr>
<td>2.B Clay Cap Testing and Certification</td>
<td>$ -</td>
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<tr>
<td>2.C Preparation of As-Built Drawings</td>
<td>$ 360.00</td>
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<td>2.D Expendables, Reimbursable and Mileage, third party printing costs included</td>
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<td><strong>SUBTOTAL FOR TASK 2</strong></td>
<td><strong>$ 13,060.00</strong></td>
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**TOTAL FEES ALL TASKS** $ 21,566.00

**NOTES:** Although dollar values have been provided for each task FMG retains the right to reallocate monies to other tasks subject to the maximum limiting fee shown above or as discussed in Exhibit A.
## EXHIBIT C

**FMG ENGINEERING**  
**2019 RATE SCHEDULE**  
**FOR**  
**RC LANDFILL PERMIT 2018**  
**PROJECT No. 18-2448 / CIP No. 51202**

### TASK 1

<table>
<thead>
<tr>
<th>PERSONNEL</th>
<th>RATE</th>
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<tbody>
<tr>
<td>Principal Civil Engineer</td>
<td>$152.00/hr</td>
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<td>Senior Geotechnical Engineer</td>
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<td>Civil Engineer 2 – PE</td>
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<tr>
<td>Civil Engineer 1 – PE</td>
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<td>Graduate Engineer – EIT</td>
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<td>CADD Technician</td>
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<td>Engineering Technician</td>
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<td>GIS Specialist</td>
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<tr>
<td>Registered Land Surveyor</td>
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<td>Survey Crew Chief</td>
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<td>Survey Technician</td>
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<tr>
<td>Senior Administrative Assistant</td>
<td>$63.00/hr</td>
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### SUB-CONSULTANTS, VEHICLES & EXPENSES

- Mobilization (support vehicle) $0.70/mile  
- Travel Costs - air, lodging, transport, meals, etc. At Cost; No Markup  
- Document/Plans Reproduction At Cost; No Markup  
- Sub-Consultants* At Cost; No Markup

*Sub-Consultant hourly rate sheets attached.*
<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>HOURLY RATES</th>
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<tbody>
<tr>
<td>PRINCIPAL</td>
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<td>PROJECT MANAGER</td>
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<td>PROJECT PROFESSIONAL/CAD DESIGNER</td>
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<td>PROJECT TECHNICAN</td>
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<tr>
<td>ADMINISTRATIVE/CLERICAL</td>
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RAPID CITY LANDFILL PERMIT
PROJECT NO. 18-2448    CIP NO. 51202