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

Date:

Project Name & Number: Red Rocks Booster Pump Station Upgrades
CIP #: 50812.B
Project Number 14-2177

Project Description: The design of new pumps to provide increased capacity for the existing Red Rocks Booster Station located at 7150 Prestwick Rd. in Red Rocks Estates.

Consultant: Bartlett & West

Original Contract Amount: $124,956
Original Contract Date: 4/1/2014
Original Completion Date: 08/31/2015 for Tasks 1, 2, and 3

Addendum No: 2

Amendment Description:
This amendment includes additional services provided by the Engineer and includes the following: Adding into the project design, civil/site, structural, mechanical, plumbing which were not included in the original project scope as well as increased effort for process and electrical design. Providing assistance in preparation of Special Bid Conditions; developing the Contractors Qualification statement during final design and bidding; increasing the Construction Administration efforts during construction due to increase in project scope; adding a new task under Task 4 for gathering, organizing, printing, and copying to CDs the construction related documentation; and increasing the time required for on-site construction observation performed under Task 5 due to increase in project scope. This amendment also includes changing the daily construction observation services (within Task 5) that were originally planned to be completed by the Engineer with direct staff, to daily construction observation services being completed by a subconsultant of the Engineer. Lastly, it changes the schedule to one completion date for Tasks 1 through 5.

Current Contract Amount: $137,956.00
Current Completion Date: 03/31/2016, 10/31/2018
Change Requested: $126,105.00
New Contract Amount: $264,061.00
New Completion Date: Tasks 1-5: 12/31/2019

Funding Source This Request:

<table>
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<tr>
<th>Amount</th>
<th>Dept.</th>
<th>Line Item</th>
<th>Fund</th>
<th>Comments</th>
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<td>$63,052.50</td>
<td>933</td>
<td>4223</td>
<td>602</td>
<td>Water Replacement / Improvements</td>
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<tr>
<td>$63,052.50</td>
<td>934</td>
<td>4223</td>
<td>602</td>
<td>Water Expansion</td>
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</tbody>
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$126,105.00 Total

Agreement Review & Approvals

Project Manager
Date 7/20/17
Division Manager
Date 7/24/17
Department Director
Date 7/24/17

Routing Instructions
Route two original of the Agreement for review and signatures.
Finance Office - Retain one original
Project Manager - Retain second original for delivery to Consultant

Finance Office Use Only
(Note to Finance: Please write date of Agreement, in appropriate space in the Agreement document)
Appropriation
Date 7/24/17
Cash Flow

Approval
Date 7/24/17
Initials Y
Approved Y

109A Authorization for Mayor & Finance Officer to Sign
Rev. 03/2009
AMENDMENT NO. 2 TO AGREEMENT

Project: Red Rocks Booster Pump Station Upgrades
        Project Number 14-2177/ CIP 50812.B

Background Data: Effective Date of Agreement: May 5, 2014
        Owner: City of Rapid City
        Engineer: Bartlett & West, Inc.

Nature of Amendment:

This amendment includes additional services provided by the Engineer and includes the
following: Adding into the project design, civil/site, structural, mechanical, plumbing
which were not included in the original project scope as well as increased effort for
process and electrical design. Providing assistance in preparation of Special Bid
Conditions; developing the Contractors Qualification statement during final design and
bidding; increasing the Construction Administration efforts during construction due to
increase in project scope; adding a new task under Task 4 for gathering, organizing,
printing, and copying to CDs the construction related documentation; and increasing
the time required for on-site construction observation performed under Task 5 due to
increase in project scope.

This amendment also includes changing the daily construction observation services
(within Task 5) that were originally planned to be completed by the Engineer with direct
staff, to daily construction observation services being completed by a subconsultant of
the Engineer.

Current Contract Amount: $137,956.00
Change Requested: $126,105.00
New Contract Amount: $264,061.00

Completion Date for Tasks 1 through 3 changed to: December 31, 2019
Completion Date for Tasks 4 and 5 changed to: December 31, 2019
Owner and Engineer hereby agree to modify the above referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The effective date of this Amendment is:

______________________________.

CITY OF RAPID CITY:

By: ____________________________
    Mayor

Date Signed: ____________________

ATTEST:

By: ____________________________
    Finance Officer

Date Signed: ____________________

ENGINEER:

By: ____________________________
    Bartlett & West, Inc.

Date Signed: 7/17/17

REVIEWED BY:

______________________________
    Morgan Falcone, Project Manager
AMENDMENT NO. 2 to EXHIBIT A
Red Rocks Booster Pump Station Upgrades
Project Number 14-2177/ CIP 50812.B

The scope/work items outlined in the following paragraphs and pages are modified as noted. All other changes to the original scope/work still apply. The general nature of the changes include:

TASK 1 – PRELIMINARY DESIGN SERVICES

Task 1.2: Several additional hours were spent going through old reports to gather an understanding of the design flow rate for the existing station and gathering information related to current and future water demands on the discharge side of the pump station.

Task 1.15.b: The original hydraulic model provided by the City did not contain facilities related to the Selador service area or future transmission mains related to the Red Rock BPS. In addition, some time was need to trouble-shoot other aspects of the model to assure it was working correctly, incorporation of GIS information, preparing demand projections, discussing future planned piping with the City, creating water demand tables for three scenarios, and determining the limiting flow rate based on suction and discharge pressures.

Task 1.15.f: Add task item related to structural design. Structural design required to replacing the floor and pump pedestals, and minor changes to wall openings.

Task 1.15.i: Evaluated three (3) pump types, and created nine (9) floor plan options.

Task 1.15.l: Not required. Estimated fee used in Task 1.15.i

Task 1.15.y: Additional work completed related to the size of the existing electrical service and service size and MCC options. Prepared technical memo to document evaluation.

Task 1.15.z: Add task item related to HVAC. Evaluated HVAC options, and impact to electrical service. Prepared technical memo to document evaluation.

Task 1.15.aa: Add task item related to plumbing. With floor removal, underfloor plumbing changes were required, added in trench floor drain, and plumbing modifications near sink.

Task 1.15.jj: Additional work related to investigation into potential suppliers of temporary pumping equipment.

Project Meetings: Due to the additional hydraulic requirements, two (2) additional meetings were held during this phase of the project.

TASK 2 - FINAL DESIGN SERVICES:

Task 1, Paragraph 1.15.A.3.a.ii indicates the City will be responsible for preparing the “Front End Documents.” During the final preparation of the contract documents, the Engineer has several discussions with the City regarding Special Bid Conditions, and developing the Contractors Qualification statement. This work will be added to Task 2.14.
Task 2.14 (Specs) and 2.17 (Plans): Add back in, or additional effort required for plan sheets and related specification sections for:
   b) Civil/Site – Add to project, 4 sheets
   d) Structural – Add to project, 4 sheets
   e) Process – Final result was 12 sheets, including 2 related to demolition.
   f) Mechanical/HVAC – Add to project, 3 sheets
   g) Plumbing – Add to project, 2 sheets
   h) Electrical – Greater effort required due to increase in magnitude of project.
   i) Instrumentation – Greater effort required due to increase in magnitude of project.

Project Meetings: There was substantially more effort required to facilitate project meetings and there were specific meetings held related to instrumentation and control that were not originally budgeted.

TASK 3 – BIDDING SERVICES:

Preparation for the pre-bid meeting and post bid summary and discussions on required paperwork by the low bidder required more hours than originally budgeted. This work will be added to Tasks 3.3 and 3.7

TASK 4 – BASIC CONSTRUCTION SERVICES:

Due to the greater magnitude of the construction project, the Engineer’s Construction Administration efforts also increased. This additional effort is related to Tasks: 4.4 – Written Clarifications, 4.6 – Submittal review, 4.7 – Record Drawings, 4.8 - O&M Manual, and 4.11 – Project Management.

Add Task 4.10.c titled Construction Correspondence and Photos. There was no specific task item in the original scope of work for gathering, organizing, printing, and copying to CDs the construction related documentation.

TASK 5 – BASIC OBSERVATION SERVICES:

Due to the greater magnitude of the construction project, the Engineer’s Construction Administration efforts also increased. This additional effort is related to Tasks: 5.4 Weekly and Monthly Meetings, 5.10 Assist & Prepare Monthly Pay Requests, 5.11 Assist & Prepare Change Orders, and 5.15 Close-Out Checklist.

Increase the time included for daily construction observation services, Task 5.5 due to the magnitude of the project and the need to be on-site to oversee project construction close-out. A total of 400 hours has been allocated for Task 5.5 by the construction observer.

When the scope of work and budget where initially established, it was anticipated the daily construction observation services to be provided by a direct employee of the Engineering firm. This work will now be provided by a subconsultant, Dale Ludens.
AMENDMENT NO. 2 to EXHIBIT B
Red Rocks Booster Pump Station Upgrades
Project Number 14-2177/ CIP 50812.B

TASK 1 - PRELIMINARY DESIGN SERVICES:
Task 1.2: Increase by $2,166
Task 1.15.b: Increase by $4,350
Task 1.15.f: Increase by $1,600
Task 1.15.y: Increase by $5,660
Task 1.15.z: Increase by $5,330
Task 1.15.aa: Increase by $1,250
Task 1.15.jj: Increase by $1,656
Preliminary Plans: Increase by $6,658
Project Meetings: Increase by $2,782

Intermediate Services (Amendment 1): Decrease to match actual Fee Billed: ($1,172)

Subtotal Increase: $30,280

Task 1.15.i: $581 transferred to 1.15.l.

TASK 2 - FINAL DESIGN SERVICES:
Task 2.14: Increase by $14,825
Task 2.17: Increase by $25,143
Project Meetings: Increase by $950

Subtotal Increase: $40,918

TASK 3 – BIDDING SERVICES:
Task 3.3: Increase by $2,364
Task 3.7: Increase by $2,553

Subtotal Increase: $4,917

TASK 4 – BASIC CONSTRUCTION SERVICES:
Task 4.4: Increase by $3,832
Task 4.6: Increase by $6,584
Task 4.7: Increase by $1,440
Task 4.8: Increase by $1,712
Task 4.10.c (Added): $1,740
Task 4.11: Increase by $800

Subtotal Increase: $16,108
TASK 5 – BASIC OBSERVATION SERVICES:
Task 5.5 (Daily Site Observation): Increase by $15,587
Task 5.6: Increase by $9,144
Task 5.10: Increase by $3,820
Task 5.11: Increase by $2,547
Task 5.15: Increase by $2,784

Subtotal Increase: $33,882

Amendment No. 2 Total = $126,105
TASK 5 – EXPANDED CONSTRUCTION SERVICES

- The hourly bill rate for the subconsultant field representative (construction observer) will be $70/ hour.