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

Project Name & Number: Alley South of Kansas City Street Between 4th St and 2nd St. Sanitary Sewer Improvements 16-2338  
CIP #: 50827

Project Description: Sanitary Sewer Improvements

Consultant: TSP, Inc.

<table>
<thead>
<tr>
<th>Original Contract Amount:</th>
<th>$64,820</th>
<th>Original Contract Date:</th>
<th>November 4, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Completion Date:</td>
<td></td>
<td>Original</td>
<td>June 1, 2017</td>
</tr>
</tbody>
</table>

Addendum No: 1

Amendment Description: Design contract modification for extra work.

<table>
<thead>
<tr>
<th>Current Contract Amount:</th>
<th>$64,820.00</th>
<th>Current Completion Date:</th>
<th>June 1, 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Requested:</td>
<td>$9,976.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Contract Amount:</td>
<td>$74,796.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Completion Date:</td>
<td>October 1, 2017</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Funding Source This Request:

<table>
<thead>
<tr>
<th>Amount</th>
<th>Dept.</th>
<th>Line Item</th>
<th>Fund</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>$9,976.00</td>
<td>833</td>
<td>4223</td>
<td>604</td>
<td></td>
</tr>
</tbody>
</table>

| $9,976.00 | Total |

Agreement Review & Approvals

Project Manager: [Signature] 5-28-17  
Division Manager: [Signature] 5-24-17

Compliance Specialist: [Signature] 5-23-17  
Department Director: [Signature] 5-24-17

City Attorney: [Signature] 5-23-17

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  
Public Works Engineering  
Project Manager

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

[Signature] 5-31-17

109A Authorization for Mayor & Finance Officer to Sign  
Rev. 03/2009
AMENDMENT NO. 1 TO AGREEMENT

Project: Alley South of Kansas City Street Between 4th St and 2nd St Sanitary Sewer Improvements

Background Data: Original Contract Date: 11-4-16
Owner: City of Rapid City
Consultant: TSP Inc.

Nature of Amendment: Design contract modification for extra work.

Current Contract Amount: $64,820.00
Change Requested: $9,976.00
New Contract Amount: $74,796.00

Owner and Contractor 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: _____________________________________  Engineer

Mayor

Date: ________________________________  Date: ________________________________

ATTEST:

By: _____________________________________

Finance Officer

Date: ________________________________
Exhibit A

Additional Scope of Service for Design Contract Amendment #1

Alley South of Kansas City St. Between 4th St. and 2nd St. Sanitary Sewer Improvements

Project No. 16-2338/CIP No. 50827

The following items are being added or modified from the original agreement.

**TASK 2 – FINAL DESIGN SERVICES**

2.32 Additional coordination meetings with Pennington County to discuss construction of modifications to existing building on the north side of the alley. A portion of the Pennington County Building Project adjacent to the alley involves lowering grade outside the building. This was discovered after design was nearly complete.

2.33 To accommodate this grading, the alley profile as previously planned will have to be revised in the area of the east end of the Pennington County building.

2.34 Revision of Cross Sections to accommodate grading change.

2.35 Re-calculation of grading quantities to accommodate the grading change.

2.36 The City of Rapid City Engineering Division wishes to included alternate bid items for open cutting the sanitary sewer in lieu of slip lining and pipe bursting. Additional plan notes will be required to accommodate this change.

2.37 An alternate sequencing plan must be provided to accommodate the open cutting alternate.

2.38 Alternate erosion control plans must be provided to accommodate the open cutting alternate.

2.39 The plans must contain additional bid items, additional quantities compilations, and additional work on the Engineer’s Estimate to accommodate the open cutting alternate.

2.40 The City of Rapid City Engineering Division must wishes to include alternate bid items for concrete pavement in lieu of the previously planned asphalt pavement and reinforced concrete pan. Additional plan notes will be required to accommodate this change.

2.41 Additional typical sections must be generated to accommodate the concrete pavement alternate.

2.42 The plans must contain additional bid items, additional quantities compilations, and additional work on the Engineer’s Estimate to accommodate this concrete pavement alternate.
May 8, 2017

Jesse Rieb
City of Rapid City Engineering Division
300 6th Street
Rapid City, SD 57701

Re: Alley South of Kansas City Street Between 4th Street & 2nd Street, Sanitary Sewer Improvements
TSP# 03161129

Dear Jesse:

We are writing to request a modification to our design contract on the above referenced project. Some issues have arisen during the design of this project that we feel are beyond our Contracted scope of work. We are nearly complete with the design of this project, and in order to properly address these issues, we must revise some of the design we have already completed, and expend additional man-hours to revise our plans and provide additional design services to accommodate these changes in scope.

When we were approximately 50% complete with our plans, we became aware of some issues regarding a building remodel project that is currently under construction by Scull Construction Services on a Pennington County building at 321 Kansas City Street. This building is between 4th and 3rd Streets and the rear of this building is adjacent to the alley in which our sewer project is to be constructed. We have so far met with Scull Construction on 3 different occasions to find out more about this project and to try to formulate a plan for coordinating the construction of both the City sewer project and the building remodel project.

The alley is currently under heavy use by construction equipment for the building remodel project and will be subject to such use until approximately early next summer. This has required both TSP and the City to delay the intended bid letting date and construction period until near the completion of the building remodel project to avoid damage to new pavement placed under the City project by the building remodel Contractor’s equipment.

Pennington County has indicated that close to and after the completion of the building remodel project, the County must have access to at least one of the doorways in the rear of the building adjacent to the alley. This would require that the construction of the sewer project contain an additional phase beyond what was previously planned in order to accommodate this access situation.

Adjacent to the alley, this building remodel project involves a small addition adjacent to the alley right-of-way, relocation of exterior doors, and grade modifications outside the building to accommodate the relocation of door openings. These grade modifications have required us to revise our planned profile of the alley surface to allow positive drainage away from the revised doorway locations. We have planned further meetings with the design team for the building remodel project to coordinate the grading work in the alley sewer project with the grading work in the building remodel project.

Additionally, there were some City of Rapid City comments on our preliminary design report that will require us to perform some work that we feel is outside our original scope of design services.

One of the comments indicates the City’s desire to provide alternate bid items for open cutting the new sewer main along with base bid methods of slip lining the new main from 4th Street to 3rd Street and pipe bursting the new main between 3rd Street and 2nd Street that we had originally intended. This will require us to prepare additional and separate sewer installation sequencing plans for the project, along with notes explaining the alternate item, estimate of quantities revisions and additional work on the final estimate. This requirement may also create the need to prepare an alternate erosion control plan.
Another city comment indicates the City's desire to provide alternate bid items for complete concrete pavement in for the alley in lieu of the 3' wide reinforced concrete pan down the centerline of the alley along with asphalt pavement on either side of the pan as we originally proposed and how we have proceeded thus far. This requirement presents some challenges in design that must be resolved. With the pan design, we proposed to have a constant 3/4" per foot slope on each 1 1/2' side of the pan as is typical for a concrete pan slope. From there, we proposed that the asphalt pavement outboard the pan on each side have a variable cross slope in order to try to match the existing pavement, ground surface, or grade at building at the edge of the 20' right-of-way on each side.

In this situation, concrete placement would have to be made using edge forms and screeds rather than machine paving. If the pavement section were be to completely concrete pavement from edge to edge, we would still propose that the concrete pan be placed first separately with keyed joints on the edges and then the concrete pavement outboard of the pan be placed in either one or two separate pours afterward. Having three separate concrete placements may defeat the intent of trying to provide a more economical concrete section. An alternate to this method might be to place half the pavement width at a time maintaining the valley at centerline and providing a water resistant joint at centerline. We feel that it would be prohibitively difficult to provide separate drain pan cross slopes in this type of section. Considering the variable cross slopes, there would have to be a complete alternate set of cross sections generated if this method were to be used. These issues would have to be resolved in order for us to provide a concrete alternate pavement for this project.

We are requesting a modification of our Contract fee in the amount of $9,976 to provide these additional design services. We have generated the enclosed man-hour estimate for the additional work that we foresee having to be performed as a result of these changes in scope. We would be happy to meet with you to discuss these issues at your convenience.

We would like to thank you for your consideration of this request. Please contact us if you have any questions.

Sincerely,

TSP Inc.

[Signature]

Don Wrede, P.E.

DCW/dcw
enc.

cc: Bob Morcom
DATE: 05/08/2017
RE: Alley South of Kansas City St. Between 4th St. & 2nd St.
Sanitary Sewer Improvement
Project No. 16-2338 / CIP No. 50827

Contract Amendment #1
ESTIMATED MANHOURS

PREPARED BY: TSP, INC.
TSP NO. 3161129.00

PREPARED FOR: City of Rapid

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>Total hours</th>
<th>Total Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Coordination with Pennington County Building Remodel Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>Coordination meetings</td>
<td>8</td>
<td>$1,320.00</td>
</tr>
<tr>
<td>1.2</td>
<td>Profile revisions</td>
<td>10</td>
<td>$1,370.00</td>
</tr>
<tr>
<td>1.3</td>
<td>Cross section revisions</td>
<td>10</td>
<td>$1,370.00</td>
</tr>
<tr>
<td>1.4</td>
<td>Quantities Revisions</td>
<td>2</td>
<td>$330.00</td>
</tr>
<tr>
<td></td>
<td>Provide Alternate Plans and Bid Items for Open Cutting Sewer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>Plan Notes</td>
<td>4</td>
<td>$660.00</td>
</tr>
<tr>
<td>2.2</td>
<td>Alternate Sequencing plan</td>
<td>10</td>
<td>$1,510.00</td>
</tr>
<tr>
<td>2.3</td>
<td>Additional Erosion Control Plans</td>
<td>8</td>
<td>$1,180.00</td>
</tr>
<tr>
<td>2.4</td>
<td>Bid Items, Quantities, and estimate</td>
<td>4</td>
<td>$660.00</td>
</tr>
<tr>
<td></td>
<td>Provide Alternate Plans and Bid Items for Concrete Alley Pavement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>Plan Notes</td>
<td>4</td>
<td>$660.00</td>
</tr>
<tr>
<td>3.2</td>
<td>Typical Section Revisions</td>
<td>4</td>
<td>$520.00</td>
</tr>
<tr>
<td>3.3</td>
<td>Bid Items, Quantities, and estimate</td>
<td>2</td>
<td>$330.00</td>
</tr>
</tbody>
</table>

Sub-Total hours 66
Total Amendment Design Fees $9,910.00 $9,976.00

Total Estimated Labor Cost $9,976.00