

AMENDMENT NO. 2
TO
CONTRACT FOR PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES
CITY OF BILLINGS WORK ORDER 14-09,
Briarwood Reservoir Expansion

THIS AGREEMENT, made and entered into on _____, 2015, by and between the following:

CITY OF BILLINGS, a Municipal Corporation,
Billings, Montana 59103,
Hereinafter designated the City

and

Kadrmass, Lee & Jackson, Inc.
PO Box 80303
Billings, Montana 59108
Hereinafter designated the Contractor

WITNESSETH:

WHEREAS, the City and Contractor have entered into a contract dated June 23, 2014, for Contractor to provide professional services to the City for Work Order 14-09, and;

WHEREAS, the City has need for additional professional services, and;

WHEREAS, the City has authority to contract for professional services, and;

WHEREAS, the Contractor represents that he is qualified to perform such services, is in compliance with Montana Statutes relating to the registration of professional engineers and is willing to furnish such services to the City;

NOW, THEREFORE, in consideration of the terms, conditions, covenants and performance contained herein, or attached and incorporated herein, the Parties hereto agree as follows:

Part I, Section 4.A, is amended as follows:

“...Billings shall pay the Contractor no more than three hundred thirty-eight thousand three hundred and no/100 dollars (\$338,300.00) in accordance with this Section and Appendix B.”

Appendix A Section 3.4, Construction Phase Services, is amended to include Additional Services described in the attached Scope of Work, hereby incorporated as part of Amendment No. 2.

Appendix B, Section 1, Part A, is amended to include:

A. The Engineer shall be paid based upon actual time accrued, but not to exceed the following amounts:

Original contract amount	\$ 290,200
Amendment No. 1: Additional Geotechnical Services	\$ 5,000
Amendment No. 2: Additional Construction Services	\$ 43,100
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Total Professional Services following Amendment No. 2	\$ 338,300

All other terms and conditions of the contract, as amended, to which this amendment applies, shall remain in full effect.

CONSULTANT

NAME: Kadrmass, Lee & Jackson, Inc.

BY: _____

TITLE: _____

DATE: _____

CITY OF BILLINGS, MONTANA

BY: _____

TITLE: _____

DATE: _____

Amendment No. 2 Scope of Work

City of Billings Work Order #14-09 Briarwood Reservoir Expansion

I. DESCRIPTION

Contract Amendment No. Two (2) is for Additional Services not included in the original contract dated June 23, 2014 or Amendment 1 dated October 21, 2014. Services included generally consist of additional construction phase tasks related to geotechnical engineering, quality assurance, structural inspections, electrical components and leak detection systems.

II. SERVICES TO BE PERFORMED

A. Geotechnical Consulting, Special Inspections and Quality Assurance (QA)

The following services are included.

- Engineering consulting and construction administration
- Drilled pier observations
- Impermeable liner installation inspection
- Void form infiltration inspection
- QA compaction testing
- QA concrete testing

Drilled pier observations will need to be performed on a full-time basis and remaining services can be performed on a periodic basis. A brief discussion of the major components is described in further detail below.

Engineering consulting and construction administration will consist of review of several geotechnical and foundation related submittals and attendance of a construction meetings. Anticipated submittals that will need to be reviewed will consist of the following.

- Contractor's foundation design
- Concrete mix design
- Impermeable liner product and installation design
- Void form product and installation design

Drilled pier observations include performing observations during the drilled pier installation and construction. These services will consist of observing the drilled pier excavation and documenting the diameter, depth, soil, and bedrock conditions encountered. Other inspections include reinforcing steel cage, concrete placement methodology, and forming of the upper

portion of the drilled piers. It is anticipated these services will need to be performed on a full-time basis.

Impermeable liner installation special inspection services will be completed during installation of the impermeable liner. In particular, it will be documented that the liner is installed in accordance with the manufacturer's guidelines and with geotechnical report recommendations, that it is placed at the required location and limits, and that the drilled pier penetrations through the liner are properly sealed.

Void form installation special inspection services relate to installation of the recommended void forms beneath the concrete slab. In particular, it will be documented that the void forms are installed in accordance with the manufacturer's installation guidelines, and document the product installation, paying particular attention to penetrations, joints, and areas where concrete could come in contact with the expansive subgrade and concrete slab if improper void form construction occurs.

QA Testing. The project specifications indicate the contractor will be responsible for concrete testing services. It is assumed the contractor will also be required to perform their own Quality Control (QC) compaction testing services. QA testing services will be to evaluate that the contractor's methods and testing results are being properly performed and in accordance with the project specifications and geotechnical report.

Reporting. Results of special inspection and testing services will be provided electronically as they are completed.

B. Electrical, Controls and Leak Detection Systems

Additional services are required for satisfactory installation of systems related to electrical controls, communications tower, ultrasonic level sensors and leak detection components. The services generally are described as follows.

- Submittal review
- RFI coordination with contractor and suppliers
- On-site construction observation
- Coordination with City staff
- Start-up system testing and trouble shooting