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May 25, 2022

Mr. Mark Ritterbush
City of Grand Junction
250 North 5th Street
Grand Junction, CO 81505

RE: Kannah Creek Water Storage Tank - Letter Agreement for Engineering Services

Dear Mark:

JVA is pleased to present this letter agreement to the City of Grand Junction (City) for engineering services for the design of the Kannah Creek Water Storage Tank (WST). The project includes preliminary design, permitting, final construction drawings. Design services for the new concrete WST will include civil, structural and electrical engineering services based on a standard design-bid-build project delivery method.

The WST will be located on the existing Kannah Creek WST site be approximately 250,000 gallons per the City of Grand Junction Technical Memorandum, dated January 17, 2022.

The scope of services below is based on discussions with City staff and our experience with previous water storage tank projects. JVA will subcontract for survey, electrical engineering design for power, instrumentation, and controls design for the improvements. JVA will coordinate geotechnical and utility potholing services with the City's on-call consultants.

SCOPE OF SERVICES

Based on this information and JVA's understanding of the design efforts required for the WST project, the anticipated engineering services for this project include the following detailed tasks for each phase:

Task 1 – Project Kickoff

- Prepare draft project schedule and work plan for review and input from City staff.
- Attend online kickoff meeting with City staff to discuss the goals and project schedule.
- Conduct biweekly meetings with the City to discuss progress with the project and any coordination items.
- Prepare Design Assumptions Memo for review by the City

Task 2 – Preliminary Design

1. JVA will provide a preliminary WST layout that includes an elevation view, driveway and parking, and site piping and valving to and from the site. The layout will include a location for tank overflow and drainage. JVA will prepare preliminary design drawings and technical specifications including a site plan, yard piping including a bypass for maintenance and structural plans and details. Electrical and controls will include a new level sensor, control and recording hardware, and a SCADA plan.
2. JVA will provide an opinion of probable cost based on preliminary design.

3. JVA will attend one virtual meeting with the City to review and discuss comments on the preliminary design documents.

PHASE II – CDPHE Permitting

1. JVA will update a Basis of Design engineering report submittal for the WST project in accordance with CDPHE Design Criteria which requires the following:
    a. Basis of Design Report (BDR) including:
        i. Service area information including existing and future population estimates and per capita demands, fire flows, and emergency storage
        ii. Review of water quality data and water age
        iii. Hydraulic profile and flow diagram
        iv. Capacity evaluation and design calculations
        v. Monitoring and sampling evaluation, if required
        vi. Preliminary plan of operation
        vii. Preliminary plan of maintenance and cleaning
    b. Application for Construction Approval Form
    c. 60 percent plans and specifications
    d. Implementation plan and schedule
    e. NSF 61 certifications
    f. Opinion of probable cost

2. JVA will provide the City with operations & maintenance cost estimates.
3. JVA will review the BDR submittal with the City and incorporate any comments into the BDR prior to submission to CDPHE.

JVA will respond to CDPHE questions and requests for information and incorporate CDPHE comments into the final design.

Task 3 – Final Design

1. JVA will incorporate the City's comment's from preliminary design into the final construction drawings and specifications. The City's front end documents will be utilized for this project.
2. JVA will provide an updated opinion of probable cost with the final design submittal.
3. JVA will attend one virtual meeting with the City to review and discuss comments on the final design documents.
4. JVA will incorporate revisions from the review meeting into the final construction drawings and specifications for bid.

BASIS OF PAYMENT

JVA proposed to complete the aforementioned scope of work for a Time and Materials basis with an estimated fee of $124,900. JVA's discounted on-call billing rates with the City will be utilized for this project. A detailed work breakdown fee structure by task is attached.

These fees are based upon the above assumptions and discussions to date. Services resulting from significant changes to the project scope will be considered additional services. The

proposed fee does not include hydraulic modeling, geotechnical investigation, potholing, bidding or construction services or permit fees.

SCHEDULE

JVA will provide a detailed project schedule at the project kickoff meeting.

We appreciate the opportunity to continue to serve the City's consulting engineering needs and look forward to another successful project. If you have any questions about this letter or the scope described herein, please do not hesitate to contact me.

Sincerely,
JVA, Incorporated

By: _____

Cooper Best, P.E.
Regional Manager / Associate

Accepted by:
CITY OF GRAND JUNCTION

By: _____

Date: _____

City of Grand Junction Kannah Creek Water Storage Tank Project Fee

		PRINCIPAL - QA/QC Josh McGibbon		Project Manager Cooper Best		SR. PROJECT ENGR		PROJECT ENGR / DESIGN ENGR		STRUCTURAL LEAD Adam Teunissen		DRAFTING LEAD Jon Driggers		SUBTOTAL LABOR COSTS		EXPENSES			TOTAL COSTS (Rounded to Nearest 100)	
City of Grand Junction Discounted Billing Rates		$148/hour		$126/hour		$116/hour		$100/hour		$116/hour		$108/hour		HRS	$	PRINT	SUB-CONSULTANTS	EXPENSE SUBTOTAL*	LINE ITEM	
DESCRIPTION OF SERVICES		HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL							
Task 1	Kickoff Meeting																			
■	Project kick-off and site visit			4	$504	4	$464	4	$400	2	$232			14	$1,600				$1,600	
■	Review Existing Information			2	$252	2	$232	2	$200	2	$232	2	$216	10	$1,132				$1,132	
■	Design Assumptions Memo	2	$296	8	$1,008	8	$928	8	$800	8	$928			34	$3,960				$3,960	
■	Meeting w/City - Design Assumptions			2	$252	2	$232	2	$200	2	$232			8	$916				$916	
	SUBTOTAL	**2**	**$296**	**16**	**$2,016**	**16**	**$1,856**	**16**	**$1,600**	**14**	**$1,624**	**2**	**$216**	**66**	**$7,608**					**$7,600**
Task 2	Preliminary Design																			
■	Prelminary Drawings	2	$296	12	$1,512	15	$1,740	15	$1,500	40	$4,640	40	$4,320	124	$14,008		$10,000	$11,000	$25,008	
■	Prelminary Technical Specifications	2	$296	4	$504	8	$928	8	$800	20	$2,320			42	$4,848		$2,000	$2,200	$7,048	
■	Preliminary OPC	1	$148	2	$252	2	$232	2	$200	4	$464			11	$1,296				$1,296	
■	Review Meeting w/City			2	$252	2	$232	2	$200	2	$232			8	$916	$100		$100	$1,016	
	SUBTOTAL	**5**	**$740**	**20**	**$2,520**	**27**	**$3,132**	**27**	**$2,700**	**66**	**$7,656**	**40**	**$4,320**	**185**	**$21,068**	**100**	**$12,000**	**$13,300**		**$34,400**
Task 3	CDPHE Permitting																			
■	Basis of Design Report (BDR)	2	$296	20	$2,520	40	$4,640	60	$6,000					122	$13,456		$5,000	$5,500	$18,956	
■	CDPHE Coordination			8	$1,008	8	$928							16	$1,936		$2,000	$2,200	$4,136	
■	60 Percent Drawings	4	$592	12	$1,512	20	$2,320	30	$3,000	40	$4,640	60	$6,480	166	$18,544				$18,544	
■	60 Percent Specifications	4	$592	12	$1,512	20	$2,320	20	$2,000	20	$2,320			76	$8,744	$100		$100	$8,844	
	SUBTOTAL	**10**	**$1,480**	**52**	**$6,552**	**88**	**$10,208**	**110**	**$11,000**	**60**	**$6,960**	**60**	**$6,480**	**380**	**$42,680**	**100**	**$7,000**	**$7,800**		**$50,500**
Task 4	Final Design																			
■	Final Drawings	2	$296	8	$1,008	20	$2,320	20	$2,000	65	$7,540	40	$4,320	155	$17,484		$3,000	$3,300	$20,784	
■	Final Specifications	2	$296	4	$504	10	$1,160	12	$1,200	15	$1,740			43	$4,900	$100	$2,000	$2,300	$7,200	
■	Final OPC	2	$296	2	$252	2	$232			4	$464			10	$1,244				$1,244	
■	Review Meeting w/City			2	$252	2	$232	2	$200	2	$232			8	$916				$916	
■	Construction Drawings and Specifications			4	$504	4	$464	4	$400	4	$464	4	$432	20	$2,264				$2,264	
	SUBTOTAL	**6**	**$888**	**20**	**$2,520**	**38**	**$4,408**	**38**	**$3,800**	**90**	**$10,440**	**44**	**$4,752**	**236**	**$26,808**	**100**	**$5,000**	**$5,600**		**$32,400**
	TOTAL	**23**	**$3,404**	**108**	**$13,608**	**169**	**$19,604**	**191**	**$19,100**	**230**	**$26,680**	**146**	**$15,768**	**1734**			**ENGINEERING FEE (WITH ON-CALL DISCOUNT)**			**$124,900**

** includes 10% markup*