

ADDENDUM #3

Lewis and Clark Caverns State Park Comfort Station Septic FWP #7196303

Near Cardwell, Montana
December 22, 2021

Bidders for the above listed project are hereby notified that the following changes have been made to the bid documents:

1. *Replace* **Special Provision 14 CONSTRUCTION SCHEDULING REQUIREMENTS** *as follows:*

The contract time for this project is expected to start mid-February 2022. No work shall be allowed inside the paved campground loop road without the approval of the Engineer. Work will commence on the RV dump station, treatment system, and drain field and continue until this portion of the project is nearly complete. At this time the Engineer will assess whether the project can be ready for system startup on May 1, 2022. If it appears there is not sufficient time to be ready for the system startup date the following requirements apply:

- The work inside the campground loop shall be delayed until after October 10, 2022 with system startup occurring in early May 2023.
- All areas of completed construction shall be topsoiled and seeded per specifications before shutting down the project for the season.
- The two host pads (located northeast of the RV dump station) and RV dump station shall be connected to the existing 4-inch gravity sewer line to allow summer operation.
- The work in bid item "Project Delay Though Summer of 2022" will apply and be added to the project.

2. *Replace* **PROPOSAL** *with attached section.*

The new proposal form will be submitted with the bid. This form includes the newly added bid item #47.

3. *Add the following to* **Special Provision 17 MEASUREMENT AND PAYMENT, SECTION E** *basis of payment as follows:*

47. Project Delay Through Summer of 2022

- ◆ General: This bid item shall include costs associated with delaying the project through the summer of 2022, if required.

- ◆ Work Included:
 - All labor, tools, equipment, materials, royalties, and incidentals needed to complete the work as specified;
 - Demobilization and remobilization,
 - Extra mobilization efforts associated with seeding portions of the project in two separate seasons,
 - Temporary connection of host pad sewer line to existing sewer in the spring and reconnection to new system in the fall.
- ◆ Measurement: Measurement shall be one lump sum bid item.
- ◆ Payment: Payment shall be by the price bid for the lump sum bid item listed in the proposal.

4. *Modify the **WATER TOWER DETAIL on DRAWING SHEET C8** as follows:*

Replace note at the bottom of the detail, *1" DR 7 PIPE*, with the following note:

1" DR 11 IPS HDPE PIPE WITH COMPRESSION FITTINGS AS NEEDED.

5. *Modify the **FIBERGLASS TANK BACKFILL DETAIL on DRAWING SHEET C12** as follows:*

ADD the following note referring to the area of primary backfill:

Alternate primary backfill may be used with the approval of the fiberglass tank manufacturer. Be aware the use of alternate materials will likely require additional compaction efforts. An alternate backfill form for a Xerxes tank is attached and shall be signed by Xerxes representative to allow the use of the alternate backfill material, if a Xerxes tank is used. The Contractor is required to adhere to any additional requirements defined by the manufacturer.

If a different tank manufacturer is used, a similar approval is required including a signature from a representative of company, and a listing of any special requirements associated with the use of the alternate backfill material.

For Xerxes tanks contact:


Bruce Coe
bruce.coe@shawcor.com
1-503-653-1604

6. *Prior approvals for electrical equipment follow:*

Light Fixture – Prior Approvals:

The following light fixtures have been reviewed as equals, subject to final approval, to specified light fixtures:

Pole Light	Leotek
Pole	KW



Jeffrey L. Larson, P.E.

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE DESIGNATED PLACE IN THE BID FORM AND ON THE FACE OF THE ENVELOPE.

PROPOSAL

FWP# 7176303

Montana Fish, Wildlife & Parks
Design and Construction
PO Box 200701
1522 Ninth Avenue
Helena, Montana 59620-0701

The undersigned, having familiarized themselves with the conditions of the work and the contract documents as prepared by **Jeff Larson, Larson Civil; 28 Antler Ave Clancy, Montana 59634; Phone 406 443-6111**, agrees to furnish all labor, materials, equipment, and services necessary to complete all general construction work, as bid herein, for a project entitled **Lewis and Clark Caverns Comfort Station Septic System** in accordance with the Contract Documents including all Addenda. The bidder agrees to perform all the work described below at the price shown as follows:

Reminder To Contractors: All Unit Prices must be filled in on the Bid Form for a valid bid (18-2-303 MCA).

Base Bid:

Item #	Description	Estimated Quantity	Unit Measure	Unit Price	Amount
1	Mobilization, Insurance, and Bonding	1	LS		
2	RV Dump Station Demolition	1	LS		
3	Comfort Station Demolition	1	LS		
4	Sewer Vault Demolition	1	LS		
5	Abandon Distribution Box	1	LS		
6	Abandon Sewer Cleanout	1	LS		
7	Comfort Station 15,000 Gallon Primary tank with Risers	1	LS		
8	Comfort Station Effluent Filter	1	LS		
9	Comfort Station 4,000 Gallon Concrete Pump Vault with Risers	1	LS		

Contractor Name: _____

BASE BID:

Item #	Description	Estimated Quantity	Unit Measure	Unit Price	Amount
10	Comfort Station Effluent Pumps	2	EA		
11	RV Dump Station 4,000 Gallon Concrete Primary Tank with Risers	1	LS		
12	RV Dump Station Effluent Filter	1	LS		
13	RV Dump Station 4,000 Gallon Concrete Equalization Basin with Risers	1	LS		
14	RV Dump Station 2,500 Gallon Concrete Equalization Basin with Risers	1	LS		
15	Equalization Basins Effluent Pumps	2	EA		
16	14,000 Gallon Fiberglass Pre-Anoxic Tank with Risers	1	LS		
17	12,000 Gallon Fiberglass Aeration/Clarification Tank with Risers	1	LS		
18	Aeration System	1	LS		
19	10,000 Gallon Fiberglass Recirculation Tank with Risers	1	LS		
20	Recirculation Pumps	4	EA		
21	Recirculating Ball Valve	1	LS		
22	Pre-Anoxic Return Pump and Piping	1	LS		
23	Treatment Ponds (including Grading)	4	EA		
24	Treatment Ponds Ventilation system	1	LS		
25	Treatment Pods/Recirculation Tanks Connecting Piping	1	LS		
26	4,000 Gallon Concrete Dosing Vault with Risers	1	LS		
27	Dosing Tank Effluent Pumps	2	EA		
28	Flowmeter	2	EA		
29	Zone Selection Valve	1	LS		
30	Schedule 40 PVC 4-inch Gravity Piping	178	LF		

Contractor Name: _____

Item #	Description	Estimated Quantity	Unit Measure	Unit Price	Amount
31	Schedule 40 PVC 2-inch Pressure Piping	1865	LF		
32	Sewer Cleanout	5	EA		
33	Drain Field Throttling Valves	18	EA		
34	Drain Field Infiltration Chambers	1632	LF		
35	RV Dump Station	1	LS		
36	Gravel Surfacing	594	SY		
37	Pavement Removal and Replacement	90	SF		
38	Sidewalk Removal and Replacement	30	SF		
39	Landscape Rock	7	EA		
40	Topsoil, Seed and Mulch	1	LS		
41	Wastewater System Control Panel	1	LS		
42	Wastewater System Electrical Connection	1	LS		
43	Comfort Station Control Panel	1	LS		
44	Comfort Station Electrical Connection	1	LS		
45	System Start Up and Training	1	LS		
46	2 years System Operation and Maintenance	1	LS		
47	Project Delay through Summer 2022	1	LS		
Total: \$ _____					

TOTAL BID: _____

_____ AND _____ /100 DOLLARS (\$ _____).

Contractor Name: _____

And certifies that he is a duly and regularly licensed contractor registered with the Montana Department of Labor and Industry:

FIRM NAME: _____

TELEPHONE #: _____ FAX#: _____

BY: _____

REGISTRATION # : _____

BUSINESS ADDRESS: _____

E-MAIL ADDRESS: _____

This bidder acknowledges receipt of the following addenda:

ADDENDUM NO. _____ DATED

ADDENDUM NO. _____ DATED

ADDENDUM NO. _____ DATED

Contractor Name: _____

Note: Approval for the use of alternate backfill to install Xerxes tanks is site specific. This supplemental instruction sheet must be properly filled out with approval and acknowledgment signatures recorded prior to commencing installation. Please print legibly, and sign and return a copy of this variance to technical support at Xerxes Minneapolis (fax: 952-887-1870, or e-mail: receptionist@xerxes.com) along with a sieve analysis of the proposed material. A copy of this form should be kept in the tank owner's tank installation file, as stated in the introduction of the Xerxes Installation Manual and Operating Guidelines (subsequently referred to as Installation Manual).

1. GENERAL

- 1.1. The instructions presented in this supplement are to be followed for the installation of Xerxes tanks when using backfill other than those approved and outlined in the Installation Manual.
- 1.2. These supplemental instructions must be used in conjunction with the Installation Manual.
- 1.3. Since sand is not naturally self-compacting the way crushed rock and pea gravel are, special care must be taken to obtain proper compaction.
- 1.4. This material must be compacted during installation.
- 1.5. The installing contractor must ensure that these criteria are met and the supplemental instructions are followed.

2. MATERIAL

- 2.1. The alternate backfill material is classified as sand, a little gravel, or sand with gravel classified as SP under the unified soil classification. It must meet the following specifications:
 - 2.1.1. It must be clean and well granulated.
 - 2.1.2. The maximum size (in limited percentages) is 3/4-inch.
 - 2.1.3. It must be free of clay, loam, trash, large stones, silt, stone screenings or dust, shells, coral, pumice, soft limestone screenings, slag, cinders, industrial wastes and salts or trap rock.
 - 2.1.4. Material must not be frozen, and should be free of ice chunks and snow.
- 2.2. The installer is responsible for procuring alternate material that meets the specifications in TABLE 2-1. A sieve analysis of this material must be submitted to Xerxes with this form.

Specification Table	
Sieve Size	% Passing
Mix of 3/8", 1/2", 3/4"*	No less than 70%
#40 (.016")	0-40%
#200 (.002")	No more than 5%

* The mix may contain up to, but not more than, 30% by weight of gravel, which includes 3/8-inch, 1/2-inch and 3/4-inch size stones. The 30% can be a combination of these larger particles or 30% total of individual sizes.

Table 2-1

3. COMPACTION

- 3.1. When this alternate backfill material is used, it must be mechanically compacted.
 - 3.1.1. The sand must be compacted under the shadow of the tank which may be difficult with some mechanical compaction equipment.

Note: Be sure there is proper compaction within the tank shadow. (See FIGURE 3-1.)

 - 3.1.1.1. It is imperative that the backfill material is worked under the tank body and dome so that the tank is fully supported (that is, so there are no voids under the tank and the material is properly compacted).
 - 3.1.1.2. This area of backfill may need to be compacted by hand using a nonmetallic probe.

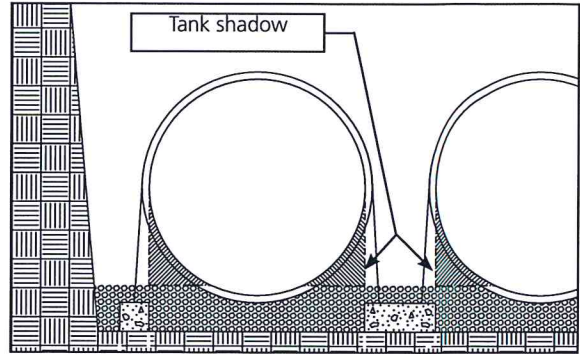


Figure 3-1

- 3.2. Use hand-operated mechanical vibrating compaction equipment when compacting within 8 feet of the tank.

Note: Do not use rammer-type compactors as they are typically inappropriate for sand compaction.

- 3.3. Compact the material to achieve a minimum of 85% standard proctor density (ASTM D698). The density of each 12-inch lift should be verified by an independent testing laboratory using either the sand cone method (ASTM D1556) or the nuclear method (ASTM D2922) as a quality control (QC) method. A copy of the test reports should be filed with all installation records and sent to the tank owner.
- 3.4. This material is to be added in 12-inch lifts (maximum) in equal amounts around the tank. Each lift shall be compacted from the initial 12-inch bed to sub-grade. This is typically accomplished with pan vibrators.

4. INSTALLATION (DRY HOLE)

- 4.1. Follow all appropriate sections called out in the Xerxes Installation Manual along with these supplemental instructions:
 - 4.1.1. Place the backfill in the hole and compact the material to provide a level 12-inch thick tank bed (minimum).
 - 4.1.2. Set the tank into the hole and level.
 - 4.1.3. Add the first 12-inch lift of backfill and compact. Review the Installation Section of the Installation Manual, which outlines the procedure for placing and working the backfill under the tank sides and domes to provide full support.
 - 4.1.4. Add the second 12-inch lift and compact.
 - 4.1.5. Continue to add backfill in 12-inch lifts and compact all the way to sub-grade. Use caution when compacting around reservoir, piping, sumps and manways. See Point 3.2.
 - 4.1.6. Complete the Tank Installation Checklist found in the Installation Manual.

5. INSTALLATION (WET HOLE)

- 5.1. These alternate backfill instructions do not apply in a hole that cannot be maintained in a dry condition during the installation process.
 - 5.1.1. For a wet hole, use standard backfill materials and follow Wet-Hole instructions in the Installation Manual.

<p>Fill out, sign and send to Xerxes (see above).</p> <p>Customer name: _____</p> <p>Site address: _____</p> <p>Contractor name: _____</p> <p>Material proposed and supplier (be specific): _____</p>	<p>Acknowledgments (must be signed by customer and by Xerxes to be valid.)</p> <p>Owner's representative Signature: _____</p> <p>Date: _____ Name (printed): _____</p> <p>Xerxes' representative Signature: _____</p> <p>Date: _____ Name (printed): _____</p>
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