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## Frisco Bay Marina Lift Station and Deep Utilities

### Change Order Request

Owner's Name Town of Frisco

BTC Project #: 1063

Request #: 3

Date: 9/16/21

### Description of Work

Since the start of the Frisco Bay Marina Lift Station and Deep Utilities project, BTC has encountered higher groundwater levels than anticipated based on the project geotechnical findings. Due to the additional groundwater handling, BTC has experienced slower production rates throughout the project as well as had to acquire additional dewatering equipment that we have had to use to dewater for a longer period than planned. The production delays and additional equipment costs are summarized below:

1 - Lift Station Excavation Delays - BTC spent an additional 14 days working on this excavation managing extra groundwater and implementing additional dewatering equipment (additional generator, addition of hydraulic and submersible pumps, rental costs for all equipment for additional time).

2 - Building Site Utilities Delays - BTC spent an additional 11 days working on installing these utilities while managing extra groundwater at the site and implementing additional dewatering equipment (adding an extra frac tank, filter cans, and a 4" diesel pump).

Equipment	Units	UOM	Total
See breakdown on next pages	1.00	LS	\$ 139,320.00
Sub Total Equipment			\$ 139,320.00
Labor	Hours	UOM	Total
See breakdown on next pages	1.00	LS	\$ 173,270.00
Sub Total Labor			\$ 173,270.00
Materials/Subcontractors	Units	UOM	Total
see breakdown on next pages	1.00	LS	\$ 37,741.83
Sub Total Mtls/Subs			\$ <del>37,741.83</del> 37,071.06
Subtotal			\$ 350,331.83
Bonds/Insurance (1%)			\$ 3,503.32
General Contractor's Overhead and Profit (15.00%)			\$ 52,549.78
TOTAL			\$ 406,384.93

### APPROVED

By: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

- 870.77  
\$ 405,714.16

## High Groundwater Delays

### LABOR & EQUIPMENT BREAKDOWN

	Description	Units	UM	Rate	Equipment Cost	Labor Cost
5	<b>Lift Station dewatering delays - 14 extra working days for lift station crew spent handling extra groundwater to complete the lift station excavation (10 hours/day, 14 extra days)</b>					
6	Foreman's Truck	140	HR	\$ 31.00	\$ 4,340.00	
7	Tool Container - Foreman	140	HR	\$ 26.00	\$ 3,640.00	
8	Foreman - Dale Zerr	140	HR	\$ 139.00		\$ 19,460.00
9	CAT 345 Excavator	140	HR	\$ 350.00	\$ 49,000.00	
10	Slide Rail (2 Bays)	140	HR	\$ 252.00	\$ 35,280.00	
11	Generator	140	HR	\$ 47.00	\$ 6,580.00	
12	Operator #1 - Ryan Z	140	HR	\$ 97.00		\$ 13,580.00
13	Laborer #1 - Adrian	140	HR	\$ 69.00		\$ 9,660.00
14	Laborer #2 - Clayton Foley	140	HR	\$ 69.00		\$ 9,660.00
15	Hourly Subsistence - 3 Crew Members	140	HR	\$ 135.00		\$ 18,900.00
16	Hourly Subsistence - Foreman	140	HR	\$ 60.00		\$ 8,400.00
17				<b>Subtotals</b>	<b>\$ 98,840.00</b>	<b>\$ 79,660.00</b>
18	<b>Building site utilities dewatering delays - 13 extra days for building site utilities crew spent handling extra groundwater to complete all site utilities (10 hours/day, 11 extra days)</b>					
19	Foreman's Truck	110	HR	\$ 31.00	\$ 3,410.00	
20	Tool Container - Foreman	110	HR	\$ 26.00	\$ 2,860.00	
21	Foreman - Lam Reeves	110	HR	\$ 139.00		\$ 15,290.00
22	CAT 330 Excavator	110	HR	\$ 295.00	\$ 32,450.00	
23	Trench Boxes	110	HR	\$ 16.00	\$ 1,760.00	
24	Operator #1 - Uriel Escobedo	110	HR	\$ 97.00		\$ 10,670.00
25	Operator #2 - Jesus Olivas	110	HR	\$ 97.00		\$ 10,670.00
26	Pipelayer #1 - Luis Estrada	110	HR	\$ 82.00		\$ 9,020.00
27	Pipelayer #2 - Ever Chavez	110	HR	\$ 82.00		\$ 9,020.00
28	Laborer #1 - Arial Rivas	110	HR	\$ 69.00		\$ 7,590.00
29	Hourly Subsistence - 5 Crew Members	110	HR	\$ 225.00		\$ 24,750.00
30	Hourly Subsistence - Foreman	110	HR	\$ 60.00		\$ 6,600.00
31				<b>Subtotals</b>	<b>\$ 40,480.00</b>	<b>\$ 93,610.00</b>
32				<b>L &amp; E SUBTOTALS</b>	<b>\$ 139,320.00</b>	<b>\$ 173,270.00</b>

## High Groundwater Delays

### SUBCONTRACTORS, SUPPLIERS, AND MATERIAL BREAKDOWN

	Description	Units	UM	Rate	Material / Sub
5					
6	Frac tank, filter cans at building site utilities (INV 195334038-002)	1	LS	\$ 3,311.64	\$ 3,311.64
7	4" diesel pump (INV 195334038-003 & 195334038-004)	1	LS	\$ 3,600.00	\$ 3,600.00
8	50-59kva generator (INV 195635244-001 & 195635244-002)	1	LS	\$ 6,615.72	\$ 6,615.72
9	Deep Well equipment (pumps, hose, weir tanks, etc.) extra rental costs to date	1	LS	\$ 15,282.63	\$ 15,282.63
10	Anticipated for 1 more month of lift station dewatering rentals	1	LS	\$ 8,261.07	\$ 8,261.07
11					
12				<b>SUBS, SUP, MAT TOTALS</b>	<b>\$ 37,071.06</b>