

ATTACHMENT A

CHANGE ORDER NO. 2

Date 10/19/2017

Project Reso 2017-006 Construction of the Founders Wells CR-226 and CR-227 P.O. Number 1163

Contractor Layne Christensen Company

The following changes are made to the Contract:

Attach support documentation to this Change Order. If paying on multiple accounts and/or project numbers, attach a memo detailing each number and related dollar amount.

Is this Change Order strictly a quantity adjustment? YES NO

The Original Contract Price was \$ 1,740,384.00

Net Change by Previous Change Orders \$ 10,489.50

Contract Price Before this Change Order \$ 1,750,873.50

CURRENT Change Order AMOUNT (note + or -) \$ -541,549.00 (Arapahoe Drilling Line items 1-9)

CURRENT Change Order AMOUNT (note + or -) \$ +396,375.60 (Lost Circulation)

CURRENT Change Order AMOUNT (note + or -) \$ +14,020.00 (Additional Development & pitless)

THE NEW CONTRACT PRICE WILL BE \$ 1,619,720.10

Original contract time: 365 days

Net time change by previous Change Order(s): 0 days

Net adjustment due to this Change Order: 245 days

Current contract time including this Change Order: 610 days

DATE FOR SUBSTANTIAL COMPLETION WILL BE: June 1, 2018

The contractor hereby certifies that all work specified in this Change Order shall be performed according to the original contract requirements except as modified by Change Order(s).

TOWN DIVISION APPROVAL

By: _____

Title: _____

Date: _____

TOWN DIVISION APPROVAL

By: _____

Title: _____

Date: _____

TOWN DIVISION APPROVAL

By: _____

Title: _____

Date: _____

CONTRACTOR

By: _____

Its: _____

Date: _____

Originals: Contractor; Purchasing and Contract File

Minus Arapahoe Well Drilling: Line Items 1-9

BID SCHEDULE C
Arapahoe Well CR-227
Twelve-Inch Completion

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
1.	Wellhead Completion	L.S.	1	\$ 127	\$ 127
2.	Mobilization and Cleanup	L.S.	1	\$ 96161	\$ 96161
3.	Drilling 20.0-inch Diameter	L.F.	2,779	\$ 72	\$ 200088
4.	Casing			\$ 0	\$ 0
	a. 24-inch Diameter	L.F.	40	\$ 292	\$ 11680
	b. 12-inch Diameter	L.F.	2,449	\$ 29	\$ 71021
5.	Well Screen Assembly	L.F.	300	\$ 203	\$ 60900
6.	Gravel Pack	L.F.	1,013	\$ 32	\$ 32416
7.	Grout Seal	L.F.	1,766	\$ 29	\$ 51214
8.	Well Development	HR.	52	\$ 334	\$ 17368
9.	Geophysical Logging	L.S.	1	\$ 10325	\$ 10325
10.	Well Pumping Test Tests Supply & Install Equipment	L.S.	1	\$ 29441	\$ 29441
	a. 8 - hour Step Test	L.S.	1	\$ 6363	\$ 6363
	b. 72- hour Pumping test	L.S.	1	\$ 60568	\$ 60568
11.	Disinfection	L.S.	1	\$ 869	\$ 869
12.	Video Survey	L.S.	1	\$ 1054	\$ 1054
13.	Video Survey - Additional Pass	L.S.	1	\$ 843	\$ 843
14.	Pitless Wellheads	L.S.	1	\$ 18517	\$ 18517
15.	Provide Submersible Pump & Equip (Include descript) Install Submersible Pump & Equipment	L.S.	1	\$ 148145	\$ 148145
		L.S.	1	\$ 13767	\$ 13767
16.	Adjustable Frequency Drives Include description	L.S.	1	\$ 76880	\$ 76880
					907,747

\$541,549

DRILLING TOTAL (IN WORDS)

NINE HUNDRED SEVEN THOUSAND SEVEN HUNDRED
 FORTY SEVEN

Lost Circulation and 10" to 12" Additional Costs

Pending Change Orders (Revised per meeting with Castle Rock on September 25, 2017 & emails October 10, 2017)

Part	Item	<u>Unit</u>	<u>Initial Cost</u>	<u>Subtotal</u>	<u>Unit</u>	<u>Current Cost</u>	<u>Subtotal</u>	<u>Notes</u>
2	Surface casing Hard Rock Drilling	8	\$1,895.00	\$15,160.00	8	\$1,895.00	\$15,160.00	As agreed on Sept. 25, 2017
3	Geophysical logging	1.1	\$25,325.00	\$27,857.50	0	\$25,325.00	\$0.00	This has been deleted
4	Wireline services to free stuck pipe	1.05	\$12,745.00	\$13,382.25	0	\$12,745.00	\$0.00	This has been deleted
5	LC Labor, Fuel and Equipment ("fishing")	1.1	\$101,412.00	\$111,553.20	0	\$101,412.00	\$0.00	Labor from 5-2-17 thru 5-15-17 has been deleted to account for the "fishing" operations
	LC Labor, Fuel and Equipment (not "fishing") (10% mark up)	1.1	\$125,210.00	\$137,731.00	1.1	\$99,149.80	\$109,064.78	Lost Circulation time May 16 through June 1 as discussed Sept 25, 2017. Revised to reflect actual job cost. 5/18/17 J. Chee time removed
6	LC Materials - (10% mark up)	1.1	\$53,516.59	\$58,868.25	1.1	\$53,516.59	\$58,868.25	These are materials used to combat the lost circulation and should be reimbursed as it was an unforeseen condition. As agreed Sept. 25, 2017
7	Pilot footage drilled from 1880-2400	520	\$74.00	\$38,480.00	520	\$50.00	\$26,000.00	Pilot hole rate adjusted. As agree Sept. 25, 2017
8	Borehole abandonment (10% mark up)	1.1	\$16,760.66	\$18,436.73	1.1	\$15,326.66	\$16,768.57	The unforeseen condition caused us to plug/abandon the hole up to the elevation the well was completed. Revised to reflect actual job cost
9	Well development	16	\$334.00	\$5,344.00	16	\$334.00	\$5,344.00	The additional development time due to 5 lost circulation episodes and corresponding lost circulation material used to cure the problem. As agreed Sept 25, 2017
10	Fluids disposal (5% mark up)	1.05	\$85,080.00	\$89,334.00	1.05	\$85,080.00	\$89,334.00	Additional fluid disposal resulted for the same reason as stated in number 9. \$131,500 in invoices attached with CO Documentation
11	Sound wall rental (5% mark up)	3	\$7,176.00	\$21,528.00	3	\$6,552.00	\$19,656.00	\$6420/mo + 5% mark up. June 16 - Sept 16
12	Steel casing price escalation	1.1	\$7,377.30	\$8,115.03	0	\$7,377.30	\$0.00	This has been deleted
13	10" to 12" well adjustment	1	\$36,774.00	\$36,774.00	1	\$36,774.00	\$36,774.00	These rates established per the contract
14	12" screen left on site/not installed	0	\$0.00	\$0.00	115	\$196.00	\$22,540.00	Per our phone call of 07 September 2017
15	3rd Party Review	0	\$0.00	\$0.00	1	-\$3,134.00	-\$3,134.00	Split of \$6,268 in 3rd party reviewer's fees

\$582,563.96

\$396,375.60

Heather Justus

From: Brian Dellett <Brian.Dellett@Layne.com>
Sent: Friday, October 20, 2017 6:51 AM
To: Heather Justus
Cc: Mike Schanaman; Steve Costello; Matt Benak; Tim Friday
Subject: RE: CR226 Denver Well

Heather, that is correct

Sincerely,

BRIAN DELLETT

Senior Account Manager, Water Resources

LAYNE | water + mineral + energy

17800 E. 22nd Avenue | Aurora, CO | 80011

Office: 303-755-1281 | Cell: 303-324-1357 | Fax: 303-755-1236

brian.dellett@layne.com | layne.com

From: Heather Justus [mailto:HJustus@crgov.com]
Sent: Thursday, October 19, 2017 4:24 PM
To: Brian Dellett
Cc: Mike Schanaman; Steve Costello; Matt Benak; Tim Friday
Subject: RE: CR226 Denver Well

Brian,

Would you also confirm the additional cost for the 12" pitless will be \$4,000 thus total equals \$14,020. Is this correct?

Thank you

Heather L. Justus, P.G.
Water Resources Program Analyst
Castle Rock Water
(720) 733-6081 direct
(303) 817-8823 cell
hjustus@crgov.com

From: Brian Dellett [mailto:Brian.Dellett@Layne.com]
Sent: Wednesday, September 27, 2017 5:35 AM
To: Heather Justus
Cc: Mike Schanaman; Steve Costello; Matt Benak; Tim Friday
Subject: RE: CR226 Denver Well

Heather,

30 hours @ \$334.00 per hour = \$10,020

Sincerely,

BRIAN DELLETT

Senior Account Manager, Water Resources

LAYNE | water + mineral + energy

17800 E. 22nd Avenue | Aurora, CO | 80011

Office: 303-755-1281 | Cell: 303-324-1357 | Fax: 303-755-1236

brian.dellett@layne.com | layne.com

From: Heather Justus [<mailto:HJustus@crgov.com>]

Sent: Tuesday, September 26, 2017 3:11 PM

To: Brian Dellett

Cc: Mike Schanaman; Steve Costello; Matt Benak; Tim Friday; Steve Costello

Subject: RE: CR226 Denver Well

Brian,

Thank you.

Will you please provide a monetary estimate to the below additional development assuming that we will be able to pump to the sanitary?

Thanks

HJ

Heather L. Justus, PG

Water Resource Program Analyst

Castle Rock Water - Town of Castle Rock

Direct: (720) 733-6081

From: Brian Dellett [<mailto:Brian.Dellett@Layne.com>]

Sent: Tuesday, September 26, 2017 11:00 AM

To: Heather Justus

Cc: Mike Schanaman; Steve Costello

Subject: CR226 Denver Well

Heather,

Our plan for the additional development on this well is as follows:

- Mobilize a pump hoisting rig for the permanent pumping equipment
- Introduce pdf into the well and swab for 10 hours
- Install the permanent pumping equipment
- Pump the well to waste for an estimated 10 hours, we would like to pump the well to waste to the closest sanitary sewer to eliminate the need for water hauling

If this works, we will need the distance to the closest sanitary sewer and permission to proceed with the purchase of the pitless unit. While we believe the work can be completed in 20 hours, I would estimate 30 hours so that we have some contingency per our discussion yesterday. Please contact us with any questions.

Sincerely,

BRIAN DELLETT

Senior Account Manager, Water Resources

LAYNE | water + mineral + energy

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