



office memorandum

DATE: February 24, 2021

TO: Darrel Pyle, City Manager

FROM: Chris Mattingly, Director of Utilities *CM*

SUBJECT: 2018 Groundwater Wellfield Project - Change Order No. 3 to Contract K-1819-44 w/ Layne, A Granite Company

City Council Resolution R-1112-55 grants administrative authority to the City Manager to approve change order requests up to \$40,000 or 10% of contract amount, whichever is less, and subsequently report those approvals to the City Council. As part of the 2018 Groundwater Wellfield Development Project, a change order is being requested by contractor and staff to reconcile as-bid to as-built quantities to date and use the excess funds to cover a few negotiated items that have come forth within the project. The contract also adds an additional 45 days due to hardships experienced from the contractor due to COVID and most recent unusual weather. The net effect of Change Order No. 3 is a deduct. This change order has been reviewed and is being recommended by our consultant Carollo Engineers.

Attached is a Change Order Summary and quote for the following revisions:

Increase contract time on 2018 Groundwater Wellfield Development Project by 45 calendar days to complete the additional work, additional items as identified within the project, and reconciling to date the as-bid to as-built quantities.

Staff has reviewed the change order with Carollo to confirm that this item is acceptable. At this time, Staff recommends approval of the change order from Layne that will reduce the contract amount by \$2,773.85 and extend the completion time 45 calendar days.

Reviewed by: Anthony Francisco, Director of Finance
Kathryn Walker, City Attorney *KW*

Approved by: *[Signature]*
Darrel Pyle, City Manager

NORMAN UTILITIES AUTHORITY
CITY OF NORMAN
CLEVELAND COUNTY, OKLAHOMA

DATE: 2//2021
CHANGE ORDER NO.: Three (3)
CONTRACT NO.: Contract # K-1819-44
PROJECT: 2018 Groundwater Wellfield Development
CONTRACTOR: Layne, A Granite Company
4691 NE Highway 33
Guthrie, OK 73044

	<u>Contract Time</u>	<u>Contract Amount</u>
ORIGINAL:	547 calendar days	\$4,714,421.72
PREVIOUS CHANGE ORDERS:	220 calendar days	\$1,604,299.36
THIS CHANGE ORDER:	45 calendar days	-\$2,773.85
REVISED AMOUNT:	812 calendar days	\$6,318,721.08

ORIGINAL START DATE: January 24, 2019
ORIGINAL COMPLETION DATE: July 24, 2020
PREVIOUS COMPLETION DATE: March 1, 2021
NEW COMPLETION DATE: April 15, 2021

DESCRIPTION:	\$ Increase	\$ Decrease
CO 3-1: Increased Well Column Pipe Size (2 wells)	\$4,514.35	
CO 3-2: Increased Well Pump, Motor, and Discharge Head (2 wells)	\$10,896.92	
CO 3-3: Increased Electrical Wire Size (2 wells)	\$6,667.35	
CO 3-4: Increased Electrical Panel (2 wells)	\$3,252.38	
CO 3-5: Larger Wellhead Enclosure (2 wells)	\$2,374.88	
CO 3-6: Increased Wellhouse Piping & Fittings (2 wells)	\$2,470.86	
CO 3-7: Modify Fencing (9 wellsites)		\$8,957.88
CO 3-8: Increase Concrete Driveway Thickness (9 wellsites)	\$44,699.19	
Bid Item 6: Test Hole Zone Water Quality Sampling	\$3,671.00	


DESCRIPTION:	\$ Increase	\$ Decrease
Bid Item 8: Increase Number of Production Well (Gun Perforation)	\$155,712.00	
Bid Item 9: Decrease Number of Production Well (Screen & Gravel Pack)		\$131,193.00
Bid Item 9A: Decrease Well Screen		\$82,305.00
Bid Item 14: Decrease Submersible Cable		\$2,359.50
Bid Item 18: 24-Hour Test Pumping	\$12,671.00	
Bid Item 18A: 5-Day Test Pumping		\$24,888.00
Totals	\$246,929.93	\$249,703.38

SUBMITTED BY
CONTRACTOR:


Layne, A Granite Company

Date: 2-23-21

RECOMMENDED BY
CONSULTING ENGINEER


Rebecca Poole, PE, Project Manager
Carollo Engineers, Inc.

Date: 2/23/21

RECOMMENDED BY
CITY PROJECT MANAGER:


Chris Mattingly, PE, Utilities Director

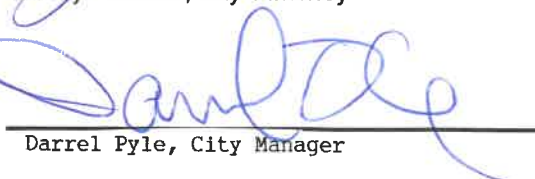
Date: 2/24/21

APPROVED AS TO
FORM AND LEGALITY:


Kathryn Walker, City Attorney

Date: 2/26/21

ACCEPTED BY
NORMAN UTILITIES AUTHORITY:


Darrel Pyle, City Manager

Date: 3-1-21

February 22, 2021

Chris Mattingly, PE, Utilities Director
City of Norman
201 West Gray, Building C
Norman, OK, 73069

Subject: 2018 Norman Groundwater Wellfield Development
Bid No. K-1819-11 / Contract No. K-1819-44
Review of Potential Change Order #3 Items

Dear Mr. Mattingly:

The purpose of this letter is to review modifications to the contract based upon a change in scope or reconciliation of quantities. Back-up documentation from the contractor is attached to this letter, with brief descriptions provided below. The recommended changes are summarized in Tables 1 and 2 at the end of the letter.

Increase Size of Components and Equipment for WL068 (Meyer) and WL072 (Argo)

The Work general covers a change to the size of various components and equipment at WL068 (Meyer) and WL072 (Argo). Test pumping conducted during the drilling of these two wells indicated that amount of water available was greater than anticipated during initial design. Consequently, several components of these wells must be enlarged to accept the higher flowrates. This change includes the following:

- **CO 3-1: Increased well column pipe from 4-inch to 6-inch diameter.** The additional cost is \$4.89 per linear foot (LF) for 924 LF for a total contract increase of \$4,514.35.
- **CO 3-2: Increased well pump, motor and discharge head.** The additional cost is \$5,448.46 per well for a total contract increase of \$10,896.92.
- **CO 3-3: Increased electrical wire size for larger electrical loads.** The additional cost is \$6.67/LF for 1,000 LF for a total contract increase of \$6,667.35.
- **CO 3-4: Increased electrical panel size and related appurtenances from 60-HP to 75-HP.** The additional cost is \$1,626.19 per well for a total contract increase of \$3,252.38.
- **CO 3-5: Larger wellhead enclosure.** The additional cost is \$1,187.44 per well for a total contract increase of \$2,374.88.
- **CO 3-6: Increased wellhouse piping and fittings from 4-inch to 6-inch.** The additional cost is \$1,235.23 per well for a total contract increase of \$2,470.46.

Following a review of the contractor's proposal, Carollo Engineers has determined that the prices proposed by Layne is fair and equitable for the modifications. Carollo recommends that the City accept the proposal listed above and provide a total \$ 30,176.34 as an addition to the contract price.

CO 3-7: Modify Fencing from 8-feet to 6-feet high around Well Sites

The Work generally covers a change to the overall height of fencing around each well site from 8-feet to 6-feet high, which is in accordance with the other well sites for the City. Following a review of the contractor's proposal, Carollo Engineers has determined that the credit proposed by Layne is fair and equitable for the modification. Carollo recommends that the City accept the proposed credit of \$ 8,957.88.

CO 3-8: Increase Concrete Driveway Thickness from 6-inches to 8-inches

The Work general covers a change to require concrete driveway thickness to be increased from 6-inches to 8-inches, which is in accordance with the other well sites for the City. Following a review of the contractor's proposal, Carollo Engineers has determined that the price proposed by Layne is fair and equitable for the modification. Carollo recommends that the City accept the proposal and provide \$ 44,699.19 as an addition to the Contract Price.

Bid Item 6: Increase Number of Test Hole Zone Water Quality Sampling

During the test hole drilling, one additional zone was selected for water quality sampling. Carollo Engineers recommends increasing the contract quantity from 71 to 72 zones at the contract amount of \$ 3,671.00 per zone.

Bid Item 8: Increase Number of Production Well (Gun Perforation)

The number of wells to be completed with gun perforation was increased by one (1) well. Carollo Engineers recommends increasing the contract quantity from 6 to 7 wells completed by gun perforation at the contract amount of \$ 155,712.00.

Bid Item 9: Decrease Number of Production Well (Screen & Gravel Packed)

The number of wells to be completed as a screen and gravel packed well was decreased by one (1) well. Carollo Engineers recommends decreasing the contract quantity from 3 to 2 wells completed by screen and gravel pack at the contract amount of \$ 131,193.00.

Bid Item 9A: Decrease Amount of Well Screen

As described above, the amount of wells completed by screen and gravel pack has been reduced. Therefore, the amount of well screen has also decreased. Carollo Engineers recommends decreasing the contract quantity of 1,200 LF to a final installed amount of 315 LF of well screen at the contract amount of \$93.00/LF for a total decrease of \$82,305.00.

Bid Item 14: Decrease Amount of Submersible Cable

During design, the amount of submersible cable was estimated based upon the maximum total depth of each well. Carollo Engineers recommends decreasing the contract quantity of 6,750 LF to a final installed amount of 6,100 LF of submersible cable at the contract amount of \$3.63/LF for a total decrease of \$2,359.50.

Bid Item 18: Increase Number of 24-Hour Pumping Test

The contract required all wells completed by gun perforation to include a 24-hour pump test. Due to the change in number of wells completed by gun perforation, an additional 24-hour pump test was necessary. Carollo Engineers recommends increasing the contract quantity for 24-hour pump test from 6 to 7 at the contract amount of \$ 12,671.00.

Bid Item 18A: Decrease Number of 5-Day Pumping Test

The contract required all wells completed as screen and gravel pack to include a 5-day pump test. Due to the change in number of wells completed as screen and gravel pack, a reduction of one 5-day pump test is appropriate. Carollo Engineers recommends decreasing the contract quantity for 5-day pump test from 3 to 2 at the contract amount of \$ 24,888.00.

Contract Time Summary

The contractor requests an additional 45 days to complete additional work and account for unforeseen circumstances encountered by COVID-19 and severe winter weather events. Following review of the contractor's request, Carollo Engineers recommends adding an additional 45 days to the contract time. A summary of the contract time is as follows:

Project Phase	Contract Time (Calendar Days)	Contract Start Date	Contract Completion Date
Original Contract	547	January 24, 2019	July 24, 2020
Change Order No. 1	160	----	December 30, 2020
Change Order No. 2	60	----	March 1, 2021
Change Order No. 3	45	----	April 15, 2021
Total	812	----	April 15, 2021

Chris Mattingly, PE, Utilities Director, Norman
2018 Groundwater Wellfield Development
Change Order No. 3
February 22, 2021
Page 4 of 4

Change Order 3 Summary

Tables 1 and 2 in Attachment 1 present a summary of the potential change order proposals. Carollo recommends that the City process a change order which reduces the total contract price by \$2,773.85 and increases the contract time by 45 days.

Attachment 2 provides the back-up documentation from Layne for these contract modifications.

Please contact me if you have any questions or require additional information.

Sincerely,

CAROLLO ENGINEERS, INC.



Rebecca Poole, PE
Project Manager/ Associated Vice President

RP:rp

Enclosures: Attachment 1: Change Order Cost Summary Tables
Attachment 2: Contractor Back-Up Information

Cc: Joy Kotey, PE, Carollo Engineers
Grady Wade, PE, SRB
Ken Mowdy, SRB

ATTACHMENT A

City of Norman / Norman Groundwater Wellfield Development
2018 Groundwater Wellfield Development
Change Order No. 3
Cost Summary Tables



**Norman Utility Authority
2018 Groundwater Wellfield Development
Bid No. 1819-11 / Contract No. 1819-44
Change Order No. 3 - Summary**

Table 1: Change Order 3 Cost Changes

Item No.	Description	Quantity	Unit	Bid Unit Price	Revised Unit Price	Difference	Total Cost Change (C*G)
CO 3-1	6" Well Column Pipe(Argo, Meyer)	924	LF	\$ 19.00	\$23.89	\$4.89	\$ 4,514.35
CO 3-2	Larger Pump, Motor, discharge head (Argo, Meyer)	2	EA	\$ 9,818.00	\$15,266.46	\$5,448.46	\$ 10,896.92
CO 3-3	Increased Submersible Cable (1/0) for larger motor (Argo, Meyer)	1000	LF	\$ 3.63	\$10.30	\$6.67	\$ 6,667.35
CO 3-4	Electrical for larger pumping equipment at Argo & Meyer (Additional Cost Only)	2	EA	\$ -	\$1,626.19	\$1,626.19	\$ 3,252.38
CO 3-5	Larger Wellhead Enclosure at Argo & Meyer	2	EA	\$ 3,667.00	\$4,854.44	\$1,187.44	\$ 2,374.88
CO 3-6	Larger Piping and Fittings at Argo & Meyer (Additional Cost Only)	2	EA	\$ -	\$1,235.23	\$1,235.23	\$ 2,470.46
CO 3-7	Credit for reducing fence from 8' to 6'	3420	LF	\$ 55.56	\$52.94	-\$2.62	\$ (8,957.88)
CO 3-8	Cost for increasing thickness of concrete from 6" to 8"	1170	SY	\$ 42.03	\$80.23	\$38.20	\$ 44,699.19
CO3 Cost Changes Subtotal						\$	\$ 65,917.65



**Norman Utility Authority
2018 Groundwater Wellfield Development
Bid No. 1819-11 / Contract No. 1819-44
Change Order No. 3 - Summary**

Table 2: Change Order 3 Bid Item Quantity Reconciliation

Bid Item No.	Description	Bid Quantity (with CO1)	Unit	Bid Unit Price	Revised Quantity	Difference	Total Cost Change (C*G)
6	Test Hole Zone Water Quality Sampling	71	EA	\$ 3,671.00	72	1	\$ 3,671.00
8	Production Well (Gun Perf)	6	EA	\$ 155,712.00	7	1	\$ 155,712.00
9	Production Well (Screen & Gravel)	3	EA	\$ 131,193.00	2	-1	\$ (131,193.00)
9A	Production Well: Well Screen (Deduct)	1200	LF	\$ 93.00	315	-885	\$ (82,305.00)
14	Submersible Cable	6750	LF	\$ 3.63	6100	-650	\$ (2,359.50)
18	24 HR Test Pumping	6	EA	\$ 12,671.00	7	1	\$ 12,671.00
18A	5 Day Test Pumping	3	EA	\$ 24,888.00	2	-1	\$ (24,888.00)
				CO3 Reconciliation Subtotal			\$ (68,691.50)

CO3 Grand Total		\$ (2,773.85)
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ATTACHMENT B

City of Norman / Norman Groundwater Wellfield Development
2018 Groundwater Wellfield Development
Change Order No. 3
Contractor Back-Up Information



Layne
A Granite Company
4691 NE Hwy 33
Guthrie, OK. 73044

1 (405) 600-6447]
graniteconstruction.com

November 11, 2020

Carollo Engineers – Rebecca Poole, P.E.
211 N. Robinson, Suite 1300 North Tower
Oklahoma City, OK. 73102

Norman 2018 Groundwater
Wellfield Development
Change Order No. 3
Items CO 3-1 thru CO 3-6

And

City of Norman
201 West Gray
Norman, OK. 73070
Attention: Norman Utilities Authority – Chris Mattingly

RE: 2018 Groundwater Wellfield Development, Contract No. K-1819-44. Change Order Request

Rebecca and Chris,

Recently, Layne submitted a series of proposed pumping equipment for the new Norman wells. A response from Max Baldischwiler prompts this concern.

In an effort to maximize production, Max suggested a larger submersible pump, higher horsepower submersible motor and 6-inch thread and coupled drop-pipe. These items are all available but were not initially included in the bid.

- The larger pump is a higher capacity than the 300 GPM pumps that were bid.
- The higher horsepower motor is a 75HP. The bid item is a 60HP. That additional cost is significant. I am unaware if the suggestion for a 75 HP motor requires electrical power supply changes.
- The 75HP motor requires larger submersible wire – additional cost.
- The use of 6-inch Thread & Coupled Drop Pipe adds cost as the bid was 4-inch. This also adds the need for 6-inch check valves with break-offs.

The total cost for these larger items is itemized on the accompanying quote. Please remember, the actual additional cost will be the total cost for the larger items minus the established bid price for the 300gpm pump, 60 hp motor, smaller wire and 4-inch pipe. The difference between the larger items and the originally bid items is the amount sought.

Having the additional cost available helps in making the decision to maximize production or conserve cost. That decision helps keep the project moving forward.

Please let Travis Evans or me know if you have questions.

Respectfully Submitted,

John Gornick

**Account Manager
Water Resources**

4691 NE HWY 33
Guthrie, OK 73044

Direct: 405-600-6447

Cell: 405-820-2658

Email: john.gornick@gcinc.com

<http://www.graniteconstruction.com/>





Order Acknowledgement - Direct Order

Order Date 12/16/20 Order # 22028203-00
PO #

Norman 2018 Groundwater
Wellfield Development
Change Order No. 3
Item CO 3-1

Bill To LAYNE CHRISTENSEN COMPANY
W229 N1433 WESTWOOD DR STE 100
Cust # WAUKESHA, WI 53186
5100337

Branch PPE - Oklahoma City, OK
6 S. Vermont
OKLAHOMA CITY, OK 73107-6524
Phone: (405)948-4003
Fax: 405-948-3318

Ship To LAYNE CHRISTENSEN COMPANY
4691 NE HWY 33
GUTHRIE, OK 73044

Instructions	Reference	Slip Out
		MEK
Terms	Ship Via	Taken By
2%10th neom	Delivery	ctc

Ln #	Product And Description	Quantity	Qty UM	Unit Price	Extension
1	NS-WCB009 6" BLACK STEEL T&C W/ API COUPLINGS	924	each	19.784	18280.42

1	Lines Total	Qty Shipped Total	0	Total Quote	18280.42
				Total	18280.42



1220 N.W. 3rd Street, Oklahoma City, OK 73106
Phone 405-235-2695 Fax 405-235-9897
Pumpsok.com

Norman 2018 Groundwater
Wellfield Development
Change Order No. 3
Items CO 3-2 & 3-3

QUOTE	Number
	11042020A
Quote is valid for 30 days from Quote Date	

To: Layne Christensen Date: 11/4/2020
4691 NE Highway 33
Guthrie OK 73044
 Attn: Travis Evans Phone: 405-600-6447
 Fax:

Project: Norman Wells				
QTY	Item number	Description	Each	Total
SHAVER WELL				
1	150S400-21	Grundfos 150GPM 21 Stage Pump End	\$3,711.31	\$3,711.31
1	40046033SF	Franklin Electric 6" 40HP 460V Sand Fighter Motor	\$3,232.19	\$3,232.19
565	43JG	#4 3 Wires w/ Ground Flat Jacketed Pump Cable	\$3.42	\$1,932.30
PARK 1 WELL				
1	230S600-17	Grundfos 230GPM 17 Stage Pump End	\$4,485.69	\$4,485.69
1	60046033	Franklin Electric 6" 60HP 460V Sand Fighter Motor	\$4,698.12	\$4,698.12
585	23JG	#2 3 Wires w/ Ground Flat Jacketed Pump Cable	\$5.21	\$3,047.85
SIMPSON WELL				
1	230S600-16	Grundfos 230GPM 16 Stage Pump End	\$4,242.00	\$4,242.00
1	50046033	Franklin Electric 6" 50HP 460V Sand Fighter Motor	\$3,946.59	\$3,946.59
565	43JG	#2 3 Wires w/ Ground Flat Jacketed Pump Cable	\$3.42	\$1,932.30
HAYES WELL				
1	300S600-15	Grundfos 300GPM 15 Stage Pump End	\$4,362.75	\$4,362.75
1	60046033	Franklin Electric 6" 60HP 460V Sand Fighter Motor	\$4,698.12	\$4,698.12
525	23JG	#2 3 Wires w/ Ground Flat Jacketed Pump Cable	\$5.21	\$2,735.25
MEYER WELL 8" Option				
1	385S750-9	Grundfos 385GPM 9 Stage Pump End	\$3,556.44	\$3,556.44
1	75046033	Franklin Electric 8" 75HP 460V Sand Fighter Motor	\$8,190.69	\$8,190.69
545	03JG	Size 0 3 Wires w/ Ground Flat Jacketed Pump Cable	\$9.04	\$4,926.80
MEYER WELL 6" Option				
1	385S600-8	Grundfos 385GPM 8 Stage Pump End	\$3,294.38	\$3,294.38
1	60046033	Franklin Electric 6" 60HP 460V Sand Fighter Motor	\$4,698.12	\$4,698.12
545	23JG	#2 3 Wires w/ Ground Flat Jacketed Pump Cable	\$5.21	\$2,839.45
JAMIE WELL				
1	230S400-13	Grundfos 230GPM 13 Stage Pump End	\$3,691.19	\$3,691.19
1	40046033SF	Franklin Electric 40HP 460V Sand Fighter Motor	\$3,232.19	\$3,232.19
475	43JG	#4 3 Wires w/ Ground Flat Jacketed Pump Cable	\$3.42	\$1,624.50
HANSMEYER WELL				
1	230S500-14	Grundfos 230GPM 14 Stage Pump End	\$3,828.13	\$3,828.13
1	50046033	Franklin Electric 40HP 460V Sand Fighter Motor	\$3,946.59	\$3,946.59
475	43JG	#4 3 Wires w/ Ground Flat Jacketed Pump Cable	\$3.42	\$1,624.50
DOWNEY WELL				
1	300S600-14	Grundfos 300GPM 14 Stage Pump End	\$3,938.81	\$3,938.81
1	60046033	Franklin Electric 6" 60HP 460V Sand Fighter Motor	\$4,698.12	\$4,698.12
475	23JG	#2 3 Wires w/ Ground Flat Jacketed Pump Cable	\$5.21	\$2,474.75
Price quoted Does NOT include Freight charges			Total	\$99,589.13
Price does not include Tax unless otherwise noted				
FOB		Terms	Net 30	

Change Order Item CO 3-2 includes the following:

Pump \$3,556.44
 Motor \$8,190.69
 Wellhead \$1,500.00
 Shroud \$450.00 (see next page)
 Total base price \$13,697.13 (not including labor, OH & profit)

*Wiring provided on separate quote.

Change Order Item CO 3-3 is larger wire size.



Order Acknowledgement - Quote Order

Quote Date: 01/05/21 Quote #: 22028596-00

Norman 2018 Groundwater
Wellfield Development
Change Order No. 3
Item CO 3-2Bill To: LAYNE CHRISTENSEN COMPANY
W229 N1433 WESTWOOD DR STE 100
Cust # WAUKESHA, WI 53186
5100337Branch: PPE - Oklahoma City, OK
6 S. Vermont
OKLAHOMA CITY, OK 73107-6524
Phone: (405)948-4003
Fax: 405-948-3318Ship To: LAYNE CHRISTENSEN COMPANY
4691 NE HWY 33
GUTHRIE, OK 73044

Instructions	Reference	Ship Via	Quoted By	Quoted To
Terms 2%10th neem		Delivery	mek	MEK

Ln #	Product And Description	List Price	Quantity	Qty UM	Unit Price	Extension
1	PV4-100-X 10"Sch40 Casing	19.37	20	FT	9.00	180.00
2	NS-GN1508S80 6 X 5 SWEDGE NIPPLE		2	each	210.00	420.00
3	NS-3568 10 X 6 STEEL WELL SEAL		2	each	150.00	300.00
3	Lines Total		Qty Shipped Total	24	Total Quote Total	900.00 900.00

Shroud cost for Argo & Meyer Wells
(included in CO 3-2 cost for increased pump, motor and discharge head -
see previous page)
\$450.00 per well

Print Time: 01/05/21 15:22*

Customer Copy

Page 1 of 1

Customer Acceptance of Quote

Signature: _____

Date: _____

PO#: _____

Quote is valid only for 30 days from the above Quote Date.

Evans, Travis

From: Mark McClain <mark@mcclainelectrical.com>
Sent: Tuesday, January 5, 2021 9:43 AM
To: Evans, Travis
Subject: Re: Norman larger controls CO

Norman 2018 Groundwater
Wellfield Development
Change Order No. 3
Items CO 3-4

CAUTION: This email originated from outside of Granite

Travis,

material 989.00
Labor. 240
Sub total. 1229.00
Margin. X 1.20. 20%
Total. \$1,475.00

Respectfully,

Mark McClain

McClain Electrical Contractor, Inc.
Phone 405-912-7300
Cell 405-823-4013

On Tue, Jan 5, 2021 at 9:25 AM Evans, Travis <Travis.Evans@gcinc.com> wrote:

Can you give me a materials and labor cost break down for this, along with overhead and margin?

Travis Evans

Project Manager
Layne Christensen Company

4691 NE HWY 33

Guthrie, Ok.
73044

Phone: 405-600-6447

Cell: 405-635-6939

Rebecca Poole

From: Evans, Travis <Travis.Evans@gcinc.com>
Sent: Wednesday, January 27, 2021 8:30 AM
To: Rebecca Poole
Cc: Joy Kotey
Subject: Re: Norman Well Project Pay App No. 16 Comments

Norman 2018 Groundwater
Wellfield Development
Change Order No. 3
Items CO 3-5

4150 is the cost of just the well enclosure from Dynamic Fabrication. Then there will be labor, small cost for material (fasteners, and barriers between concrete and aluminum), then OH And P.

Travis Evans

Operator
Water Resources

4691 NE HWY 33
Guthrie, OK 73044

Direct: 405-600-6447 |
Cell: 405-635-6939
Email: travis.evans@gcinc.com

<http://www.graniteconstruction.com/>



Norman 2018 Groundwater
Wellfield Development
Change Order No. 3
Item CO 3-6

February 1, 2021

Travis,
I think we have everything included in this for the change from 4" to 6" in the interior piping. These prices are per well house. (total increase per site: $\$1120.39 \times 2 = 2240.78$)

Our labor costs should be the same.

Bid Item	Description	6" cost	4" cost	Difference	Mark-up	Total
#26	6"x3" tee	334.16	204.88	129.28	6.46	135.74
#27	6"x4" Flange 90	119.47	64.41	55.06	2.75	57.81
#44	6" Gate Valve	590	400.2	189.8	9.49	199.29
#45	6" Check Valve	771.66	505.54	266.12	13.31	279.43
#46	6" Meter	3495.16	3068.38	426.78	21.34	448.12
TOTALS		5310.45	4243.41	1067.04	53.35	1120.39



January 5, 2021

Change order:

Fencing:

Subcontractor: \$32ft

Concrete: 1.69ft

Labor: \$11ft

Mark-up: \$4.50 ft

Back Flow Preventers:

Materials: \$152 each (\$1368 total)

Labor: \$90

Mark-up: \$15

These items considered
under Bid Item 66:
Additional Site
Improvements

Cla-Val:

Materials: \$4875 each

Increase of \$2520.39 over the specified one in the original bid.

Labor: No increase in labor from original bid.

Mark-up: \$252 (to cover bolts, gaskets, etc not included in the materials cost.)

Rock at Hansmeyer:

Materials: \$547/truck (average of 24 tons)

Labor: \$328 per truck

No mark-up