

Item #10:
Village Trustee Wachs
IL 83 Water System Change Orders

David Lothspeich

From: Anthony Malone [Amalone@esiconsultantsltd.com]
Sent: Tuesday, February 08, 2011 3:50 PM
To: David Lothspeich; Charles Wachs
Cc: Joe Chiczewski
Subject: Change Order No. 5
Attachments: Change Order 5.pdf; Village02082011..pdf

Dave/Charlie:

I am sorry for the late date. It took Concord a few days to get an answer for me regarding the cost for Item 22. The scope and fee states that one air release /vacuum valve is to be provided and the existing one to remain. Concord has promised me that they will remove the existing air release/vacuum valve and install it on the pipe from the second well for this price. Unfortunately, this is a very time sensitive item as it is needed before a well can be used according to Layne. We hope that Concord is ready to begin testing next week. Layne is waiting for a control panel to arrive and then they are ready to begin drawing water for a water sample. If the Board is not able to discuss this change order tonight because of the limited time provided, I certainly understand.

I have provided a letter to help explain the need for each item.

Anthony G. Malone, P.E.
Vice President
ESI Consultants, Ltd.
Office 630.420.1700 Ext. 17 or 815.858.2126
Cell 630.310.4569
Fax 630.420.1733 or 815.858.2129
www.esiconsultantsltd.com

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2/8/2011

ESI

ESI CONSULTANTS, LTD
Excellence, Service, Integrity
NAPERVILLE • CHARLESTON
CHICAGO • STOCKTON

February 8, 2011

Mr. David Lothspeich
Village Administrator
Village of Long Grove
3110 RFD, Old McHenry Road
Long Grove, Illinois 60047

RE: Water System Improvements for IL 83 SSA
ESI Project No. 09-325

Dear Mr. Lothspeich:

Concord has presented to us a list of items that have come up during construction. Item 18 has previously been reviewed and approved by the Board. We have reviewed this list of items and are recommending the following items be considered by the Village. The costs if approved would reduce the built-in allowance item in the contract. We have enclosed three copies of Change Order No. 5 which includes these items for the Board's review and action.

<u>Change Request No.</u>	<u>Description</u>	<u>Cost</u>
18	Fire Department Connection Inside Building	\$4,956.48
19	Not Used	
20	Additional Programming	\$1,570.16
21	2" Mixing Line for Recirculation	\$4,730.05
22	Additional Air Release/ Vacuum Breaker per Layne Western	\$5,650.37
23	Deduction in Remaining \$71,622.09 Allowance Item to Cover Change Request Nos. 18 through 22	(\$16,907.06)
	Total	\$0.00

Explanation of Items

Change Request No. 18

The Long Grove Fire Protection District (LGFPD) reviewed and approved the plans as a part of the design process. During construction, it was requested by the LGFPD to provide a redundant system since there is only one fire pump included in the design. The concept is that LGFPD can bring a pumper truck to the water treatment plant site, connect to the suction pipe from the reservoir and then discharge into a nearby fire hydrant. This truck can then provide water in an emergency.

Change Request No. 20

During the programming of the service pumps, it was determined that some modifications were required from EFI for the pumps to operate correctly. These modifications were completed as they were needed to place the reservoir and pumps on line to provide the fire protection for Sunset Foods.

The Village received a letter from Lake County Public Works several months ago that stated the Village would need to pay a flat monthly fee or install a flow meter in the backwash water line. During the investigation with Concord, it was determined that a less expensive way to record the backwash flow was to use some of the existing hardware provided by Layne Christensen. To use the hardware however requires Layne to modify their program.

Change Request No. 21

As there will be a several day turnover of the water in the reservoir, based on the amount of users initially, Swanson Water Treatment, Inc. has requested a permanent method to recirculate the water to allow mixing. This can be obtained by providing a 2" PVC pipe from the discharge of the service pump skid to the pipe going into the reservoir. The pipe will be hung from the roof trusses to keep it from restricting maneuverability around the plant.

Change Request No. 22

Layne Western, the well driller on the project, informed Concord that they have concerns with the piping plan as shown on the drawings and installed by Concord. They said they have a bleed back type check valve that allows water to drain from the pipe back into the well. With a second set of check valves being installed in the system prior to an air relief valve/ vacuum breaker, a water hammer could be created as a vacuum could occur thereby not allowing the water to drain back into the well. Layne desires to have the pipe empty at start up and therefore they need an air relief/vacuum breaker installed between the check valves. The check valves in the building are also required so as not to allow water to flow from one well pump to the other well when one

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pump is operating. This flow would make the pump impeller run backwards. If the second well pump were to start while its impeller is running backwards, this could cause damage to the pump.

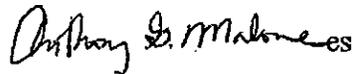
With limited space, the piping needs to be redone and different check valves installed. The present air relief/vacuum breaker needs to be moved below the check valve from one well and a second one added on the same location in the pipe from the second well.

Change Request No. 23

Items 18 and 20 through 22, if accepted by the Board, would be charged against the allowance item in the contract with Concord. There currently is \$71,622.09 remaining in this line item. If the above listed items are approved, the amount remaining in the allowance would be \$54,715.03.

Should you have any questions, please call me.

Sincerely,
ESI Consultants, Ltd.



Anthony G. Malone, P.E.
Vice President

enclosures

K:\Projects\Long Grove\Water System for Sunset Groves and Downtown LG\Construction\Change Orders\Change Order No.
5\Village02082011.doc

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**IL 83 Water System:
Change Order #4**

CHANGE ORDER

No.: 4

Project: Water System Improvements
For IL 83 SSA

Date of Issue: XXXX

ESI Project No.: 09-274

Owner: Village of Long Grove
3110 Old McHenry Road
Long Grove, Illinois 60047

Contractor: Concord Construction Services
570 Oakwood Rd.
Lake Zurich, Illinois 60047

Engineer:
ESI Consultants, Ltd
1979 N. Mill Street, Suite 100
Naperville, Illinois 60563

You are directed to make the following changes in the Contract Documents

Description:

<u>Change</u> <u>Request No.</u>	<u>Description</u>	<u>Cost</u>
Item No.	Task Description	Amount
13.1	Provide Sidewalk and Stoop/Landing at North Entrance	\$1,247.67
13.2	Increase size of Air Intake Louvers to Accommodate Electrical Panel	\$1,268.84
13.3	Rework Truss Cross Bracing to Avoid Conflict with Exhaust Fan Sleeves	\$644.98
13.4	Provide Motorized Louvers instead of Motorized Dampers on North Side of Building	\$2,384.32
14	Provide two Grab Bars to extend for Safety entering and exiting Reservoir	\$1,042.25
15	Realign IL Route 83 Water Main because of new Conflict with Power Poles	\$32,738.73
	Total	\$39,326.79

Change In Contract

Original Contract Price
\$2,874,200.00

Original Contract Time
350 days

Previous Change Orders
\$5,665.18

Net Change from Previous Change Orders
17 days

Contract Price Prior to this Change Order

Contract Time prior to this Change Order

\$2,879,865.18 _____

367 days _____

Net increase (decrease) of this Change Order

Net increase (decrease) of this Change Order

0 days _____

Contract Price with all approved Change Orders

Contract Time with all approved Change Orders

367 days _____

Recommended

Approved

Approved

by: _____

by: _____

by: _____

Engineer

Owner

Contractor

Village of Long Grove
Water System Improvements for IL 83 SSA
Contract Summary
Prepared January 20, 2011

	<u>Amount</u>	<u>Retainage</u>	<u>Percent Complete</u>
Original Contract	\$ 2,874,200.00		
Change Order No. 1	\$ (95,880.00)		
Change Order No. 2	\$ 104,497.20		
Change Order No. 3	\$ (2,952.02)		
Proposed Change Order No. 4	\$ (5,665.18)		
Revised Contract Amount	\$ 2,874,200.00		
Change from Original Contract	\$ -		
Amount of Allowance in Original Contract Not Used	\$ 71,622.09		
Payment Request No. 1	\$ 365,303.43	\$ 36,530.34	
Payment Request No. 2	\$ 254,546.10	\$ 25,454.61	
Payment Request No. 3	\$ 86,004.00	\$ 8,600.40	
Payment Request No. 4	\$ 372,306.78	\$ 37,230.68	
Payment Request No. 5	\$ 658,970.82	\$ 65,897.08	
Payment Request No. 6	\$ 118,259.55	\$ 11,825.96	
Payment Request No. 7	\$ 227,407.47	\$ 22,740.75	
Amount Paid to Date	\$ 2,082,798.15	\$ 208,279.82	\$ 2,291,077.97
Amount Remaining on Contract	\$ 791,401.85		80%

If the available allowance of \$71,622.09 is not spent, then the amount remaining can be reduced to \$719,779.76.

From: [Michael Henderson](#)
To: [Anthony Malone](#)
Cc: steved@concordway.com
Subject: Safety Posts
Date: Thursday, October 28, 2010 8:44:54 AM
Attachments: [SKMBT_C25310102808380.pdf](#)

Tony,

The plans and specs do not call for safety posts on the hatch access ladders. Is this something that you might want to add? The cost for the attached Ladder Up safety posts from Bilco is:

Safety Posts	\$375 each	\$750.00
Labor to install	\$ 75 each	\$150.00
Bond		\$ 6.30
<u>OH&P @ 15%</u>		<u>\$135.95</u>
TOTAL		\$1,042.25

Please let us know, or contact me if you need additional information.

Mike Henderson

Estimator/Project Manager
Concord Construction Services, Inc.
570 Oakwood Road
Lake Zurich, IL 60047
Phone: 847-438-9388
Fax: 847-438-9774
mikeh@concordway.com



570 Oakwood Rd.
Lake Zurich, IL 60047
Telephone: (847) 438-9388
Fax: (847) 438-9774
www.concordway.com

November 19, 2010

ESI Consultants, Ltd.
1979 N. Mill St.
Suite 100
Naperville, IL 60563
Attn: Anthony G. Malone, P.E.

Re: Change Request 15
Rte. 83 Water Main Revised Layout

Dear Mr. Malone,

We propose to furnish the necessary labor, material and equipment to modify the layout of the 8 inch water main along Route 83. All work will be in conformance with revised plan sheet C6 and C7 dated October 26, 2010. This work was necessary due to space limitations and obstructions in the right of way.

SJN Subsurface, Inc.	\$30,963.00
Performance and Payment Bond	\$ 216.74
<u>OH&P @ 5%</u>	<u>\$ 1,558.99</u>
TOTAL	\$32,738.73

If you have any questions or need additional information please contact me.

Thank you,

A handwritten signature in black ink that reads 'Michael L. Henderson'.

Michael L. Henderson
Project Manager

SJN SUBSURFACE, INC.
4405 ROBERTS RD.
ISLAND LAKE, IL 60042
847-526-1616 FAX 847-526-1956

Request For Change Order

Joe Henderson
 Concord Construction Services
 570 Oakwood Rd.
 Lake Zurich, IL 60047

November 19, 2010

Page: 1 of 1

Village of Long Grove Water System Improvements

ITEM	DESCRIPTION	QUANTITY	UM	AMOUNT	TOTAL
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Please issue a change order for an additional amount of \$30,963.00 to reroute the Water Main due to Storm and AT&T duct conflicts.

Water					
ITEM	DESCRIPTION	QUANTITY	UM	AMOUNT	TOTAL
1	8" DIWM Deduct	-138	LF	\$39.00	-\$5,382.00
2	Bore and Casing Addition	18	LF	\$235.00	\$4,230.00
3	8" HDPE Dir. Drilled Under AT&T Duct	200	LF	\$115.00	\$23,000.00
4	8" HDPE	19	LF	\$85.00	\$1,615.00
5	ComEd Pole Stabization	3	EA	\$2,500.00	\$7,500.00
				Subtotal	\$30,963.00
				Total	\$30,963.00



570 Oakwood Rd.
Lake Zurich, IL 60047
Telephone: (847) 438-9388
Fax: (847) 438-9774
www.concordway.com

October 21, 2010

ESI Consultants, Ltd.
1979 N. Mill St.
Suite 100
Naperville, IL 60563
Attn: Anthony G. Malone, P.E.

Re: Change Request 13
Various Modifications

Dear Mr. Malone,

Over the past weeks, several modifications and changes have come up that were not part of the original documents. Please review the following, and if acceptable issue a change order at your earliest convenience.

Provide a sidewalk and stoop at entrance door per the attached sketch .

Concrete, including ADA safety tiles	\$1,180.00
Performance and Payment Bond	\$ 8.26
OH&P @ 5%	<u>\$ 59.41</u>
TOTAL	\$1,247.67

Block retaining wall not shown on original site plan needed to be removed and replaced in order to install sanitary sewer extension.

Landscaping	\$5,800.00
Performance and Payment Bond	\$ 40.60
OH&P @ 5%	<u>\$ 292.03</u>
TOTAL	\$6,136.63

Increase the size of the air intake louvers to accommodate electrical panel size interference.

Concrete cutting and removal	\$1,200.00
Performance and Payment Bond	\$ 8.40
OH&P @ 5%	<u>\$ 60.42</u>
TOTAL	\$1,268.84

Rework truss cross bracing to avoid interference with exhaust fan sleeves.

Carpentry	\$ 610.00
Performance and Payment Bond	\$ 4.27
OH&P @ 5%	<u>\$ 30.71</u>
TOTAL	\$ 644.98

Plan currently calls for mill finished aluminum dampers on North elevation with no louvers. Replace these with motorized louvers painted to match the rest of the trim and louvers.

HVAC / Louvers	\$2,255.00
Performance and Payment Bond	\$ 15.79
OH&P @ 5%	<u>\$ 113.54</u>
TOTAL	\$2,384.32



570 Oakwood Rd.
Lake Zurich, IL 60047
Telephone: (847) 438-9388
Fax: (847) 438-9774
www.concordway.com

Revise coating for exterior of building and reservoir. Original product must be used when weather stays above 50 degrees. Circumstances on the project made this impossible. Proposed product is approved for use down to 20 degrees.

Painting	\$2,397.00
Performance and Payment Bond	\$ 16.78
OH&P @ 5%	<u>\$ 120.69</u>
TOTAL	\$2,534.47

Two access panels are needed in the rest room wall to access the manway of the hydropneumatic tank. The manway was relocated during the submittal process. Concord will take care of the costs associated with this revision as it occurred during the submittal process and we provided the final layout of the tank.

Please review this information and contact me with any questions or comments.

Sincerely,

A handwritten signature in black ink that reads 'Michael L. Henderson'.

Michael L. Henderson

Cc: file

**IL 83 Water System:
Change Order #5**

CHANGE ORDER

No.: 5

Project: Water System Improvements
For IL 83 SSA

Date of Issue: February 4, 2011

ESI Project No.: 09-274

Owner: Village of Long Grove
3110 Old McHenry Road
Long Grove, Illinois 60047

Contractor: Concord Construction Services
570 Oakwood Rd.
Lake Zurich, Illinois 60047

Engineer:
ESI Consultants, Ltd
1979 N. Mill Street, Suite 100
Naperville, Illinois 60563

You are directed to make the following changes in the Contract Documents

Description:

<u>Change Request No.</u>	<u>Description</u>	<u>Cost</u>
18	Fire Department Connection Inside Building	\$4,956.48
19	Not Used	
20	Additional Programming	\$1,570.16
21	2" Mixing Line for Recirculation	\$4,730.05
22	Additional Air Release/ Vacuum Breaker per Layne Western	\$5,650.37
23	Deduction in Remaining \$71,622.09 Allowance Item to Cover Change Request Nos. 18 through 23	(\$16,907.06)
	Total	(\$0.00)

Result of Change Order 5 is to lower the Allowance item in the contract to \$54,715.03.

Change In Contract

Original Contract Price
\$2,874,200.00

Previous Change Orders
\$0.00

Contract Price Prior to this Change Order
\$2,874,200.00

Net increase (decrease) of this Change Order
0.00

Contract Price with all approved Change Orders
\$2,874,200.00

Original Contract Time
350 days

Net Change from Previous Change Orders
17 days

Contract Time prior to this Change Order
367 days

Net increase (decrease) of this Change Order
0 days

Contract Time with all approved Change Orders
367 days

Recommended

Approved

Approved

by: _____
Engineer

by: _____
Owner

by: _____
Contractor



570 Oakwood Rd.
Lake Zurich, IL 60047
Telephone: (847) 438-9388
Fax: (847) 438-9774
www.concordway.com

December 23, 2010

ESI Consultants, Ltd.
1979 N. Mill St.
Suite 100
Naperville, IL 60563
Attn: Anthony G. Malone, P.E.

Re: Change Request 18
Fire Department Connection Inside Building

Dear Mr. Malone,

We propose to furnish the necessary labor, material and equipment install a quick connect point for the Long Grove Fire Protection District inside the treatment building, including two bolt down pipe bollards for protection, for the sum of \$4,956.48, broken down as follows:

Dahme Mechanical Industries, Inc.	\$4,037.65
Pipe bollards (2), furnished and installed	<u>\$ 650.00</u>
Subtotal	\$4,687.65
Performance and Payment Bond	\$ 32.81
<u>OH&P @ 5%</u>	<u>\$ 236.02</u>
TOTAL	\$4,956.48

Work will be done similar to what is detailed on the attached drawing, sheet one, the differences being the addition of two bollards, eliminating the spool pieces, and providing a Dezurich butterfly valve to match the building standard valves. See the attached proposal for additional details.

If you have any questions or need additional information please contact me.

Thank you,

A handwritten signature in black ink that reads 'Michael L. Henderson'. The signature is fluid and cursive, extending across the width of the page.

Michael L. Henderson
Project Manager



DAHME MECHANICAL INDUSTRIES, INC.
610 S. ARTHUR AVE.
ARLINGTON HEIGHTS, IL 60008
847-253-0341 FAX 847-253-9601

December 21, 2010

Mr. Mike Henderson
Concord Construction Services, Inc.
570 Oakwood Rd
Lake Zurich, IL 60047

RE: Long Grove Water Plant

Dear Mr. Henderson:

Attached please find an Itemized breakdown of estimated costs to furnish and install a fire department connection *similar* to the detail provided on the suction side of the booster pump skid at the above-referenced location. Your cost for this work is \$4037.65 (Four Thousand Thirty Seven Dollars and Sixty Five Cents).

As discussed yesterday, we will eliminate as much of the horizontal piping as possible to minimize the length of the installation. Also, we have based our pricing on a Dezurik butterfly valve matching the others installed on the project, not on a "Kennedy style" valve as noted on the sketch.

We thank you for this opportunity to quote and look forward to working with you on this and future projects.

Respectfully Submitted
DAHME MECHANICAL INDUSTRIES, INC.

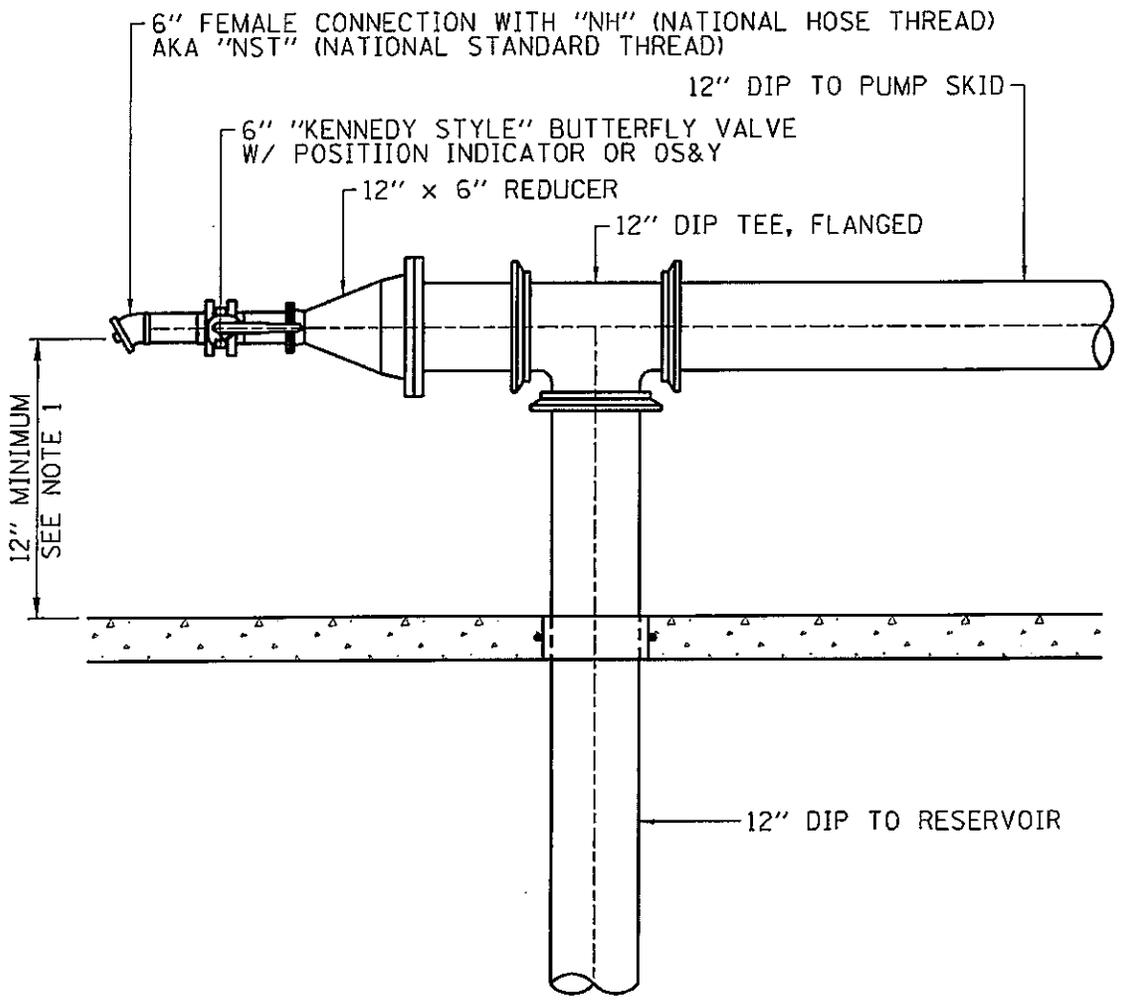
A handwritten signature in black ink, appearing to be "Michael H. Temple", written over the typed name.

Michael H. Temple

Long Grove Fire Dept Connection

Activity	Labor Hrs	Labor \$\$	Subcontract Mat'l	Subtotal	15% Fee	Total	
1- 12" Flanged Tee	8.00	\$760	\$0	\$508	\$1,268	\$190	\$1,458.20
1- Demo Exist 12" Flanged 90	4.00	\$380	\$0	\$20	\$400	\$60	\$460.00
1- 12x6 Flanged Concentric Reducer	4.00	\$380	\$0	\$203	\$583	\$87	\$670.45
1- 6" Butterfly Valve	2.00	\$190	\$0	\$340	\$530	\$80	\$609.50
1- 6" Hose Adapter	1.00	\$95	\$0	\$365	\$460	\$69	\$529.00
2- 6" BNG Sets	0.00	\$0	\$0	\$15	\$15	\$2	\$17.25
3- 12" BNG Sets	0.00	\$0	\$0	\$25	\$25	\$4	\$28.75
1- Lot Consumables	0.00	\$0	\$0	\$50	\$50	\$8	\$57.50
1- 6" Cast Iron Companion Flange	1.00	\$95	\$0	\$85	\$180	\$27	\$207.00
TOTALS	20.00	\$1,900	\$0	\$1,611	\$3,511	\$527	\$4,037.65

PRINTED DATE: 12/8/2010
FILE PATH: K:\Projects\Lang Grove\Water System For Sunser Groves and Downtown LC\CADD\Dgn\Exhibits\Fire Department Connection\FDC Exhibit.dgn



NOTES:

1. MINIMUM 12" CLEARANCE BETWEEN FLOOR AND FITTING TO FACILITATE CONNECTION OF FIRE DEPARTMENT RIGID DRAFTING HOSES. THIS FITTING IS FOR THE PURPOSE OF PROVIDING FIRE DEPARTMENT ACCESS TO RESERVOIR WATER FOR FIRE SUPPRESSION IN THE EVENT OF A PUMP FAILURE.



570 Oakwood Rd.
Lake Zurich, IL 60047
Telephone: (847) 438-9388
Fax: (847) 438-9774
www.concordway.com

February 1, 2011

ESI Consultants, Ltd.
1979 N. Mill St.
Suite 100
Naperville, IL 60563
Attn: Anthony G. Malone, P.E.

Re: Change Request 20
Additional programming

Dear Mr. Malone,

We propose to furnish additional programming of the water treatment equipment to include backwash metering and monitoring, and the pumping equipment to accommodate a revised start up sequence, for the sum of \$1,570.16, broken down as follows:

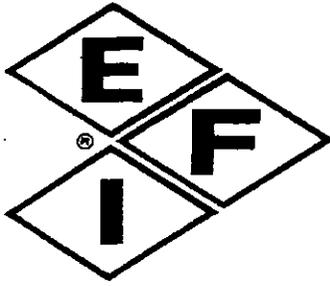
Layne Western	\$885.00
Engineered Fluid, Inc.	<u>\$600.00</u>
Subtotal	\$1,485.00
Performance and Payment Bond	\$10.40
OH&P (5%)	<u>\$74.76</u>
TOTAL	\$1,570.16

If you have any questions or need additional information please contact me.

Thank you,

A handwritten signature in black ink that reads 'Michael L. Henderson'.

Michael L. Henderson
Project Manager



ENGINEERED FLUID, INC.

POST OFFICE BOX 723 • CENTRALIA, ILLINOIS 62801 • 618/533-1351 • FAX 618/533-1459

January 5, 2011

Email: mikeh@concordway.com

Mr. Mike Henderson
Concord Construction Services Inc.
570 Oakwood Road
Lake Zurich IL 60047

Subject: Long Grove, Illinois
Programming Change Order Quote
EFI #90651

Dear Mr. Henderson:

We are pleased to offer, for your consideration, the following quote in response to your request:

1. Pump 1 will start immediately on a reduction of discharge pressure to 40 psi.
2. Pump 2 will start when the discharge pressure reduces to 35 psi and a minimum of 10 seconds after Pump 1 starts.
3. Pump 3 will start when the discharge pressure reduces to 30 psi and a minimum of 10 seconds after Pump 2 starts.
4. Pump 3 will shut off when the pressure increases to 40 psi and is maintained for 10 seconds.
5. Pump 2 will shut off when the pressure increases to 45 psi and is maintained for 10 seconds.
6. Pump 1 will shut off when the pressure increases to 50 psi and is maintained for 10 seconds.

TOTAL\$600.00

This price includes installation and is subject to change after 30 days. Return this signed form by this afternoon so that the work can be scheduled at the end of this week. One of our service technicians will contact you.

Please complete the following page and return to our office so that we may update our records with the most up to date information available. If I can be of any further assistance, please do not hesitate to call me.

Sincerely,

ENGINEERED FLUID INC.

BOB DAY
PROJECT ENGINEER

cc: Mr. Anthony Malone, ESI Consultants, LTD.

Layne-Western

a division of Layne Christensen Company

721 W. Illinois Avenue • Aurora, Illinois 60506 • Phone: 630-897-6941 • Fax: 630-897-6976

January 28, 2011

Mr. Mike Henderson
Concord Construction Services, Inc.
570 Oakwood Road
Lake Zurich, IL 60047

RE: Long Grove, IL Layne WTP Program change proposal

Dear Mr. Henderson:

Layne-Western is pleased to present this proposal as requested for program changes beyond the original control scope for the referenced water treatment project. Interest has been expressed for Layne to incorporate into the program which is already complete and tested an added function to totalize the backwash waste water during a backwash. Flow meters exist on the inlet supply lines to each vessel. Water flows through these flow meters as process valves actuate to backwash conditions. Layne can make program changes and test the output to the Layne PLC to facilitate this additional function. This scope change involves program logic changes, PLC screen changes, and testing. Expected cost for this service is shown below.

1	PLC program design change, control panel display changes, testing	\$885.00
2	Total: QUOTE	\$885.00

Thank you for the opportunity to provide these additional services to Concord and we look forward to working with you now and in the future to improve the water source and quality provided to your customer projects. If you desire to proceed, please sign and return a copy of this letter as your authorization to proceed with program design changes. If you have any questions regarding this proposal, please do not hesitate to contact us at your earliest convenience.

Respectfully,

LAYNE-WESTERN
a division of Layne Christensen Company

Mike Piercy, P.E.
Project Manager
(630) 897-6941

Jim Groose
Water Treatment Specialist & Chemist

Authorization to Proceed

Concord Construction Services

Date





570 Oakwood Rd.
Lake Zurich, IL 60047
Telephone: (847) 438-9388
Fax: (847) 438-9774
www.concordway.com

February 1, 2011

ESI Consultants, Ltd.
1979 N. Mill St.
Suite 100
Naperville, IL 60563
Attn: Anthony G. Malone, P.E.

Re: Change Request 21
2 Inch Mixing Line

Dear Mr. Malone,

We propose to furnish 2" CPCV piping from the pumping equipment discharge header to the reservoir influent line, between two existing ball valves, for the sum of \$4,730.05, broken down as follows:

Dahme Mechanical Industries, Inc.	\$4,473.50
Payment Bond	\$31.31
OH&P (5%)	<u>\$225.24</u>
TOTAL	\$4,730.05

If you have any questions or need additional information please contact me.

Thank you,

A handwritten signature in black ink that reads 'Michael L. Henderson'.

Michael L. Henderson
Project Manager



DAHME MECHANICAL INDUSTRIES, INC.
610 S. ARTHUR AVE.
ARLINGTON HEIGHTS, IL 60008
847-253-0341 FAX 847-253-0501

January 31, 2011

Mr. Mike Henderson
Concord Construction Services, Inc.
570 Oakwood Rd
Lake Zurich, IL 60047

RE: Long Grove Water Plant

Dear Mr. Henderson:

Attached please find an Itemized breakdown of estimated costs to provide a 2" Schedule 80 CPVC recirc line from the 2" ball valve at the pump skid to the 2" tap in the 8" line feeding the reservoir at the above-referenced location. Your cost for this work is \$4473.50 (Four Thousand Four Hundred Seventy Three Dollars and Fifty Cents).

We thank you for this opportunity to quote and look forward to working with you on this and future projects.

Respectfully Submitted
DAHME MECHANICAL INDUSTRIES, INC.

A handwritten signature in black ink, appearing to read "Michael H. Temple", is written over the typed name and company name.

Michael H. Temple

Long Grove 2" Recirc Line

Activity	Labor Hrs	Labor \$	Subcontract	Matr	Subtotal	15% Fee	Total
4- Lengths 2" CPVC-80 Pipe	8.00	\$760	\$0	\$696	\$1,456	\$218	\$1,674.40
16- Fittings	9.00	\$855	\$0	\$384	\$1,239	\$186	\$1,424.85
8- Hanger/Support	6.00	\$570	\$0	\$240	\$810	\$122	\$931.50
1- Modify Pilot On Press. Sust Valve	3.00	\$285	\$0	\$50	\$335	\$50	\$385.25
1- Lot Consumables	0.00	\$0	\$0	\$50	\$50	\$8	\$57.50
TOTALS	26.00	\$2,470	\$0	\$1,420	\$3,890	\$584	\$4,473.50



570 Oakwood Rd.
Lake Zurich, IL 60047
Telephone: (847) 438-9388
Fax: (847) 438-9774
www.concordway.com

February 4, 2011

ESI Consultants, Ltd.
1979 N. Mill St.
Suite 100
Naperville, IL 60563
Attn: Anthony G. Malone, P.E.

Re: Change Proposal Request 22
Revise Well Influent Piping

Dear Mr. Malone,

We propose to furnish additional labor and material to install two new wafer style check valves and one new air relief / vacuum breaker valve in the incoming well water lines for the sum of \$5,650.37, broken down as follows:

Dahme Mechanical Industries, Inc.	\$5043.90
Concord Construction – 4 hours @ \$75.00 / hour	<u>\$300.00</u>
Subtotal	\$5343.90
Performance and Payment Bond	\$37.41
OH&P (5%)	<u>\$269.07</u>
TOTAL	\$5,650.37

Please see the attached information for a more detailed breakdown and information on the check valves. If you have any questions or need additional information please contact me.

Thank you,

A handwritten signature in black ink that reads 'Michael L. Henderson'. The signature is fluid and cursive, with a long horizontal line extending to the right.

Michael L. Henderson
Project Manager



DAHME MECHANICAL INDUSTRIES, INC.
610 S. ARTHUR AVE.
ARLINGTON HEIGHTS, IL 60008
847-253-0241 FAX 847-253-9501

February 3, 2011

Mr. Mike Henderson
Concord Construction Services, Inc.
570 Oakwood Rd
Lake Zurich, IL 60047

RE: Long Grove Water Plant

Dear Mr. Henderson:

Attached please find an itemized breakdown of estimated costs for revisions to the 6" raw water piping to include:

1. Remove existing 6" globe style check valves in vertical and replace with wafer style valves in horizontal.
2. Provide one new air/vac valve and connect to tap in flange spool installed in former location of globe style valve. Leave existing air/vac valve as is.

It will probably take about a week to get the material together for this work. Please let me know if you wish to proceed.

Your cost for this work is \$5043.90 (Five Thousand Forty Three Dollars and Ninety Cents).

We thank you for this opportunity to quote and look forward to working with you on this and future projects.

Respectfully Submitted
DAHME MECHANICAL INDUSTRIES, INC.

Mike Temple

Long Grove Raw Water Revision

Activity	Labor Hrs	Labor \$\$	Subcontract	Mat'l	Subtotal	15% Fee	Total
2- 6" Water Check Valves	4.00	\$380	\$0	\$724	\$1,104	\$166	\$1,269.60
1- Air/Vac Valve	4.00	\$380	\$0	\$430	\$810	\$122	\$931.50
2- 6" Flange Filters	4.00	\$380	\$0	\$388	\$768	\$115	\$883.20
2- 6" Spool Piece with Tap	6.00	\$570	\$0	\$454	\$1,024	\$154	\$1,177.60
10- 6" Bolt, Nut, Gasket Sets	0.00	\$0	\$0	\$200	\$200	\$30	\$230.00
Lot- Demo/Reinstall Existing Fittings	4.00	\$380	\$0	\$0	\$380	\$57	\$437.00
1- Lot Consumables	0.00	\$0	\$0	\$100	\$100	\$15	\$115.00
TOTALS	22.00	\$2,090	\$0	\$2,296	\$4,386	\$658	\$5,043.90



WAFER STYLE SILENT CHECK VALVE

**FIGURE
290**

OPERATION, INSTALLATION & MAINTENANCE INSTRUCTIONS

GA Silent Check Valves are fully automatic valves and require no regular maintenance.

OPERATION: GA Silent Check Valves are designed to prevent reverse flow automatically. On pump start-up, the flow of water forces the disc open, allowing the passage of fluid thru an area equal to pipe size. On pump shut-down, a special spring closes the disc before a flow reversal takes place. This type of closure prevents the water hammer normally associated with Swing type Check valve shut-off.

INSTALLATION: Valves can be installed in any position, i.e. horizontal, or vertical with flow up. The flow arrow should be pointed in the direction of flow when the system is in operation.

When lifting, the valve should be secured by the body and never lifted by the bronze or stainless steel internal trim.

MAINTENANCE: No regular maintenance is required; however, if the valve must be serviced, it should be removed from the line by closing the discharge gate valve and bleeding off the pressure. This can be achieved by loosening the discharge flange first and then the inlet. This procedure will prevent damage to the internal trim.

Once the valve is removed from the line, all parts can be checked for wear and damage from foreign matter. Replacement parts can be ordered from GA Industries (please provide valve serial number).

NOTE: Never attempt to inspect the seating of the valve by removing the piping from the valve inlet. This will result in damage to the valve's internal seating mechanism.

OPTIONAL MATERIALS OF CONSTRUCTION

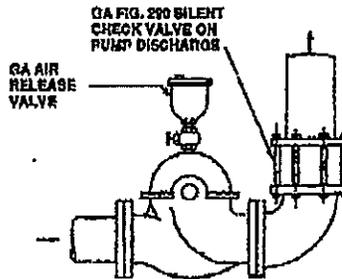
BODY:
Ductile Iron 150/300
Cast Steel 150/300

TRIM:
304 Stainless Steel
316 Stainless Steel

RESILIENT SEAT:
Viton® or any other compound
commercially available in
O-Ring form.

TYPICAL APPLICATION

**FIG. #290 Silent Check
Valve on Pump Discharge**



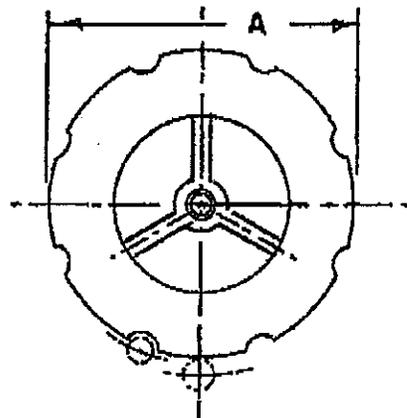
Silent check valves were developed to eliminate water hammer problems connected with the use of conventional swing check valves. The most common type of installation includes the use of a pump and a swing check valve installed in the pump discharge piping. In theory, the swing check valve closes quickly when the pump shuts down - it does, but not quickly enough. Reversal of flow in the piping will slam the clapper shut against its seat and cause noise, vibration and piping stress, which can be easily controlled by the use of a spring loaded silent check valve.

DIMENSIONS, (INCHES)

Valve Size	A	B	Weight
1 1/2"	3 5/8	2 3/8	4
2"	4 1/2	2 5/8	6
2 1/2"	5	2 7/8	7
3"	5 3/4	3 1/8	11
4"	7	4	18
5"	8 3/8	4 3/4	29
6"	9 3/4	5 1/2	49
8"	13 1/2	6 3/2	81
10"	16	8 1/4	152

CV FACTORS

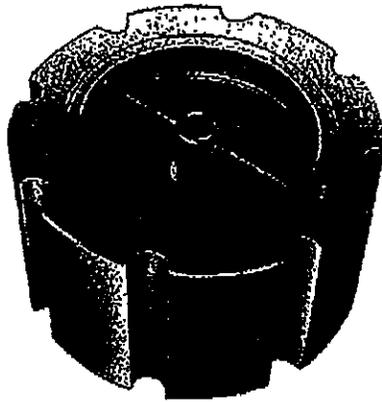
2" = 89	5" = 353
2 1/2" = 72	6" = 516
3" = 130	8" = 930
4" = 230	10" = 1720





WAFFER STYLE SILENT CHECK VALVE

**FIGURE
290**



GA FIGURE #290

Opens when upstream pressure exceeds downstream pressure by 1/4 to 1/2 PSI. An internal spring closes valve just prior to an equalizing of pressure on both sides of the plug providing a quiet and shockless valve closure.

FEATURES

- ◆ Full flow area
- ◆ Minimum head loss
- ◆ Large area bearing guides
- ◆ Plug guided at both ends
- ◆ Shortest feasible face-to-face dimensions
- ◆ Easily replaceable parts
- ◆ Functions equally well in horizontal or vertical installations
- ◆ Light weight wafer design
- ◆ Standard with resilient seal plus metal-to-metal seating

ENGINEERING SPECIFICATIONS

Sizes: 1 1/2", 2", 2 1/2", 3", 4", 5", and 6" for insertion between either CL.125 or CL.250 ANSI B-16.1 Flanges, 8" & 10" for insertion between CL.125 ANSI B-16.1 flanges only.

Pressure Rating: 400 PSI - 2" thru 6"
200 PSI - 8" & 10"

Max. Temperature: 180 ° F.

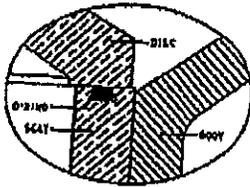
Max. Recommended Flow Velocity: 12 Feet Per Second

STANDARD MATERIALS OF CONSTRUCTION

BODYIron, ASTM A-126B
SEAT, PLUG & BUSHINGSBronze, B-62
SPRING & SCREWS300 Series St. Steel
O-RINGBuna-N Rubber

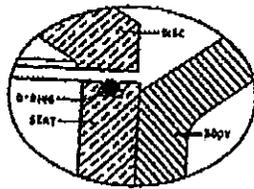
NOTE: All valves designed and manufactured by this company are guaranteed for satisfaction and durable service. All designs are the property of this company. The material specifications shown herein conform to the most recently published standards. We reserve the right to substitute materials which in our opinion are of equal or superior quality in the construction of any valve.

EXCLUSIVE SEATING DETAIL



SEATED POSITION

Unique O-Ring Seal in Dovetail Groove provides a true pressure seal, plus metal-to-metal seating - all as standard.



UNSEATED POSITION

FEATURES

1. True O-Ring Resilient Seal
2. Resilient Seal at no extra cost
3. Positive seal retention
4. Economical substitutions to suit special needs
5. O-Rings are universally available

CUSTOMER BENEFIT

Greatly improved performance plus long life
 Cost savings; standardization
 Glued gasket-type seals can fail
 Wide O-Ring availability allows low cost material customizing
 Low cost repair or replacement

PURCHASE SPECIFICATIONS

The "Wafer Style Silent Check Valve" shall be scientifically designed to provide quiet operation under all conditions of closing. It shall be of the full wafer type providing a flow area thru the valve equal to or exceeding the flow area thru the pipe in which the valve is installed. It shall absolutely prevent the return of fluid back thru the valve when the inlet pressure decreases below the delivery pressure. The valve shall be capable of operating in the horizontal, or vertical position with the flow up. A spring shall be provided to assist closing by exerting a force equal to 1/2 PSI at the closed position and be completely compressed at a flow of 4 feet/second.

The valve plug shall be concave to the flow direction providing for plug stabilization and minimal flow velocity to fully open the valve.

The valve shall be constructed of extra heavy cross section (cast iron) with a replaceable (bronze) seat. Plug and replaceable bushing shall also be (bronze). Spring and seat retaining screws shall be of 303/304 stainless steel for ease of replacement when required. The valve seating arrangement shall consist of an O-Ring seal contained in a dovetail groove providing a true pressure seal plus metal-to-metal seating.

The valve shall be the GA Industries, Inc. Figure No. 290 "Wafer Style Silent Check Valve".